BIRMINGHAM CITY COMMISSION AGENDA
JULY 8, 2024
MUNICIPAL BUILDING, 151 MARTIN
7:30 P.M.

I. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Elaine McLain, Mayor

II. ROLL CALL

Alexandria Bingham, City Clerk

III. PROCLAMATIONS, CONGRATULATORY RESOLUTIONS, AWARDS, APPOINTMENTS, RESIGNATIONS AND CONFIRMATIONS, ADMINISTRATION OF OATHS, INTRODUCTION OF GUESTS AND ANNOUNCEMENTS.

ANNOUNCEMENTS

- Happy Birthday Commissioner Therese Longe

APPOINTMENTS

A. Greenwood Cemetery Advisory Board
   1. Laura Schreiner
   2. Linda Peterson
   3. Paul Connell

To appoint_____ to the Greenwood Cemetery Advisory Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____ to the Greenwood Cemetery Advisory Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____ to the Greenwood Cemetery Advisory Board as a regular member to serve a three-year term to expire July 6, 2027.

B. Museum Board
   1. Eva Kirkman
   2. Jay Shell
   3. Beverly Erickson

To appoint_____ to the Museum Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____ to the Museum Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____ to the Museum Board as an alternate member to serve a three-year term to expire July 6, 2027.

C. Alternate Hearing Officer
   1. Alexander Simpson

To appoint _____ as the alternate Hearing Officer to serve a three-year term to expire June 30, 2027.

IV. OPEN TO THE PUBLIC FOR MATTERS NOT ON THE AGENDA

V. CONSENT AGENDA

All items listed on the consent agenda are considered to be routine and will be enacted by one motion and approved by a roll call vote. There will be no separate discussion of the items unless a Commissioner or citizen so requests, in which event the item will be removed from the general order of business and considered under the last item of new business.

A. Resolution to approve the City Commission/Planning Board meeting minutes for the meeting held on June 10, 2024.

B. Resolution to approve the regular City Commission meeting minutes of the meeting held on June 24, 2024.

C. Resolution to approve the warrant list, including Automated Clearing House payments, dated June 27, 2024 in the amount of $924,916.56.

D. Resolution to set a public hearing date of August 12, 2024 to consider the Special Land Use Permit Amendment for 260 N. Old Woodward to transfer ownership and update the Special Land Use Permit with the new owner, Old Woodward STA, LLC (Terra).

VI. CITY MANAGER'S REPORT

The City Manager's Report regularly occurs on the second City Commission meeting of the month. Additionally, reports from prior months can be viewed on the City's website bhamgov.org/manager.

None.

VII. UNFINISHED BUSINESS

None.

VIII. NEW BUSINESS

A. Public Hearing for 115 Willits – Sprazzo – Special Land Use Permit Amendment (Ownership Change)

Resolution to APPROVE the Special Land Use Permit Amendment for 115 Willits to transfer ownership and update the Special Land Use Permit to the new owner, Birmingham Omni Hospitality, LLC (Sprazzo).

AND

Make a motion adopting a resolution to authorize the City Clerk to complete the Local Approval Notice at the request of Birmingham Omni Hospitality, LLC. to approve the request for a transfer of ownership of the Class C liquor license, with Sunday sales, outdoor service area, dance and entertainment permit from Hospitality Birmingham, LLC located at 115 Willits, MI to Birmingham Omni Hospitality, LLC that will be located at the same address.

B. Public Hearing for 219 Elm St. – All Seasons 2 – Special Land Use Permit Amendment

Resolution to APPROVE the Special Land Use Permit Amendment and Final Site Plan and Design Review application for 219 Elm St. to revise the first-floor layout to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height. In addition, to grant flexibility from the commercial/mixed use architectural requirements of the Triangle Overlay District pursuant to Article 3, Section 3.11 of the Zoning Ordinance for the design of the storefront as proposed.

OR

Make a motion adopting a resolution to DENY the Special Land Use Permit Amendment and Final Site Plan and Design Review application for 219 Elm St. to revise the first-floor layout to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height and require the applicant to maintain the previously agreed upon conditions for additional building height.

C. Public Hearing of Necessity for Sewer and Water Lateral Special Assessment District (SAD) - N. Adams Road Resurfacing, Contract #12-24(P)

WHEREAS, Notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property and lots to be assessed, by first class mail, and by publication in a newspaper generally circulated in the City; and

WHEREAS, The City Commission has conducted a public hearing and has determined it is necessary to proceed with the project replacing sewer services 50 years of age or older or constructed of material that is not acceptable for City standards on N. Adams near the intersection of Putney Street and replacing water services that are 60 years or older or less than 1 inch in diameter on N. Adams Road from Mohegan Street to Putney Street; and

WHEREAS, The City has previously established a policy requiring replacement of sewer services 50 years of age or older or constructed of materials that are not acceptable for City standards and water services less than 1 inch in diameter and the City street is open for repairs; and

WHEREAS, The City Commission, after the public hearing, has determined that the N. Adams Road Project, including the replacement of sewer services that are 50 years of age or older or of material that is not acceptable for City standards, the replacement of water services that are 60 years or older or less than 1 inch in diameter, is a necessity and is in the best interest of the City; and

WHEREAS, The Commission has approved the detailed plans and estimates of cost prepared by the City Engineer; and

WHEREAS, The City Engineer has determined the boundaries of sewer service lateral and water service laterals located within the limits of the following streets shall be installed as part of the N. Adams Road Project (Contract #12-24(P)):

Sewer Lateral – N. Adams Road - Near the intersection of Putney; and

Water Lateral – N. Adams Road – Mohegan Street to Putney Street

WHEREAS, The formula used in making the assessment is 100% of the contractor's charge for replacing the lateral service that is 50 years of age or older or constructed of materials that are not acceptable and water service that is 60 years of age or older or less than 1 inch in diameter within the public right-of-way between the utility and the property line (calculated at the rate of $250.00 per foot of 8" diameter sewer service pipe, $115.00 per foot of 1-inch water service pipe, and $125.00 per foot of 2-inch water service pipe).

THEREFORE LET IT BE RESOLVED, The City Commission has determined that the scope of the public improvement as described is in the best interest of the City and will benefit the properties listed in the assessment roll, and is a necessity, and the City Commission directs the City Manager to prepare a Special Assessment Roll and present the same to the City Commission for confirmation and further set a Public Hearing of Confirmation on July 22, 2024, and give notice of same.

Water and/or Sewer Lateral

Sidwell Number	Street Address	Water SAD Costs	Sewer SAD Costs
19-25-279-017	1001 N ADAMS RD	$857.50	$0.00
19-25-279-018	1013 N ADAMS RD	$857.50	$0.00
19-25-279-019	1025 N ADAMS RD	$857.50	$0.00
19-25-279-020	1037 N ADAMS RD	$857.50	$0.00
19-25-279-021	1049 N ADAMS RD	$857.50	$0.00
19-25-279-022	1051 N ADAMS RD	$857.50	$0.00
19-25-279-023	1063 N ADAMS RD	$857.50	$0.00
19-25-279-024	1075 N ADAMS RD	$857.50	$0.00
19-25-279-025	1087 N ADAMS RD	$857.50	$0.00
19-25-279-026	1099 N ADAMS RD	$857.50	$0.00
20-30-151-001	1100 N ADAMS RD	$0.00	$7,375.00
20-30-151-002	1050 N ADAMS RD	$12,765.00	$7,375.00

20-30-151-007	1109 DERBY RD APT 4	$49.66	$0.00
20-30-151-008	1109 DERBY RD APT 8	$49.66	$0.00
20-30-151-009	1109 DERBY RD APT 3	$49.66	$0.00
20-30-151-010	1109 DERBY RD APT 7	$49.66	$0.00
20-30-151-011	1109 DERBY RD APT 1	$49.66	$0.00
20-30-151-012	1109 DERBY RD APT 5	$49.66	$0.00
20-30-151-013	1109 DERBY RD APT 2	$49.66	$0.00
20-30-151-014	1109 DERBY RD APT 6	$49.66	$0.00
20-30-151-015	1127 DERBY RD APT 4	$49.66	$0.00
20-30-151-016	1127 DERBY RD APT 8	$49.66	$0.00
20-30-151-017	1127 DERBY RD APT 3	$49.66	$0.00
20-30-151-018	1127 DERBY RD APT 7	$49.66	$0.00
20-30-151-019	1127 DERBY RD APT 1	$49.66	$0.00
20-30-151-020	1127 DERBY RD APT 5	$49.66	$0.00
20-30-151-021	1127 DERBY RD APT 2	$49.66	$0.00
20-30-151-022	1127 DERBY RD APT 6	$49.66	$0.00
20-30-151-023	1155 DERBY RD APT 4	$49.66	$0.00
20-30-151-024	1155 DERBY RD APT 8	$49.66	$0.00
20-30-151-025	1155 DERBY RD APT 3	$49.66	$0.00
20-30-151-026	1155 DERBY RD APT 7	$49.66	$0.00
20-30-151-027	1155 DERBY RD APT 1	$49.66	$0.00
20-30-151-028	1155 DERBY RD APT 5	$49.66	$0.00
20-30-151-029	1155 DERBY RD APT 2	$49.66	$0.00
20-30-151-030	1155 DERBY RD APT 6	$49.66	$0.00
20-30-151-031	850 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-032	850 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-033	850 N ADAMS RD APT 2	$49.66	$0.00
20-30-151-034	850 N ADAMS RD APT 6	$49.66	$0.00
20-30-151-035	850 N ADAMS RD APT 4	$49.66	$0.00
20-30-151-036	850 N ADAMS RD APT 8	$49.66	$0.00
20-30-151-037	850 N ADAMS RD APT 3	$49.66	$0.00
20-30-151-038	850 N ADAMS RD APT 7	$49.66	$0.00
20-30-151-039	868 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-040	868 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-041	868 N ADAMS RD APT 2	$49.66	$0.00
20-30-151-042	868 N ADAMS RD APT 6	$49.66	$0.00
20-30-151-043	868 N ADAMS RD APT 4	$49.66	$0.00
20-30-151-044	868 N ADAMS RD APT 8	$49.66	$0.00
20-30-151-045	868 N ADAMS RD APT 3	$49.66	$0.00
20-30-151-046	868 N ADAMS RD APT 7	$49.66	$0.00
20-30-151-047	1195 DERBY RD APT 4	$49.66	$0.00
20-30-151-048	1195 DERBY RD APT 8	$49.66	$0.00
20-30-151-049	1195 DERBY RD APT 3	$49.66	$0.00

20-30-151-050	1195 DERBY RD APT 7	$49.66	$0.00
20-30-151-051	1195 DERBY RD APT 1	$49.66	$0.00
20-30-151-052	1195 DERBY RD APT 5	$49.66	$0.00
20-30-151-053	1195 DERBY RD APT 2	$49.66	$0.00
20-30-151-054	1195 DERBY RD APT 6	$49.66	$0.00
20-30-151-055	1225 DERBY RD APT 4	$49.66	$0.00
20-30-151-056	1225 DERBY RD APT 8	$49.66	$0.00
20-30-151-057	1225 DERBY RD APT 3	$49.66	$0.00
20-30-151-058	1225 DERBY RD APT 7	$49.66	$0.00
20-30-151-059	1225 DERBY RD APT 1	$49.66	$0.00
20-30-151-060	1225 DERBY RD APT 5	$49.66	$0.00
20-30-151-061	1225 DERBY RD APT 2	$49.66	$0.00
20-30-151-062	1225 DERBY RD APT 6	$49.66	$0.00
20-30-151-063	1245 DERBY RD APT 1	$49.66	$0.00
20-30-151-064	1245 DERBY RD APT 5	$49.66	$0.00
20-30-151-065	1245 DERBY RD APT 2	$49.66	$0.00
20-30-151-066	1245 DERBY RD APT 6	$49.66	$0.00
20-30-151-067	1245 DERBY RD APT 4	$49.66	$0.00
20-30-151-068	1245 DERBY RD APT 8	$49.66	$0.00
20-30-151-069	1245 DERBY RD APT 3	$49.66	$0.00
20-30-151-070	1245 DERBY RD APT 7	$49.66	$0.00
20-30-151-071	880 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-072	880 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-073	880 N ADAMS RD APT 2	$49.66	$0.00
20-30-151-074	880 N ADAMS RD APT 6	$49.66	$0.00
20-30-151-075	880 N ADAMS RD APT 4	$49.66	$0.00
20-30-151-076	880 N ADAMS RD APT 8	$49.66	$0.00
20-30-151-077	880 N ADAMS RD APT 3	$49.66	$0.00
20-30-151-078	880 N ADAMS RD APT 7	$49.66	$0.00
20-30-151-079	898 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-080	898 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-081	898 N ADAMS RD APT 2	$49.66	$0.00
20-30-151-082	898 N ADAMS RD APT 6	$49.66	$0.00
20-30-151-083	898 N ADAMS RD APT 4	$49.66	$0.00
20-30-151-084	898 N ADAMS RD APT 8	$49.66	$0.00
20-30-151-085	898 N ADAMS RD APT 3	$49.66	$0.00
20-30-151-086	898 N ADAMS RD APT 7	$49.66	$0.00
20-30-151-087	946 N ADAMS RD APT 4	$782.38	$0.00
20-30-151-088	946 N ADAMS RD APT 8	$782.38	$0.00
20-30-151-089	946 N ADAMS RD APT 3	$782.38	$0.00
20-30-151-090	946 N ADAMS RD APT 7	$782.38	$0.00
20-30-151-091	946 N ADAMS RD APT 1	$782.38	$0.00
20-30-151-092	946 N ADAMS RD APT 5	$782.38	$0.00

0-30-151-093	946 N ADAMS RD APT 2	$782.38	$0.00
20-30-151-094	946 N ADAMS RD APT 6	$782.38	$0.00
20-30-151-095	928 N ADAMS RD APT 4	$782.38	$0.00
20-30-151-096	928 N ADAMS RD APT 8	$782.38	$0.00
20-30-151-097	928 N ADAMS RD APT 3	$782.38	$0.00
20-30-151-098	928 N ADAMS RD APT 7	$782.38	$0.00
20-30-151-099	928 N ADAMS RD APT 1	$782.38	$0.00
20-30-151-100	928 N ADAMS RD APT 5	$782.38	$0.00
20-30-151-101	928 N ADAMS RD APT 2	$782.38	$0.00
20-30-151-102	928 N ADAMS RD APT 6	$782.38	$0.00
20-30-151-103	910 N ADAMS RD APT 4	$782.38	$0.00
20-30-151-104	910 N ADAMS RD APT 8	$782.38	$0.00
20-30-151-105	910 N ADAMS RD APT 3	$782.38	$0.00
20-30-151-106	910 N ADAMS RD APT 7	$782.38	$0.00
20-30-151-107	910 N ADAMS RD APT 1	$782.38	$0.00
20-30-151-108	910 N ADAMS RD APT 5	$782.38	$0.00
20-30-151-109	910 N ADAMS RD APT 2	$782.38	$0.00
20-30-151-110	910 N ADAMS RD APT 6	$782.38	$0.00
20-30-151-111	964 N ADAMS RD APT 1	$782.38	$0.00
20-30-151-112	964 N ADAMS RD APT 5	$782.38	$0.00
20-30-151-113	964 N ADAMS RD APT 2	$782.38	$0.00
20-30-151-114	964 N ADAMS RD APT 6	$782.38	$0.00
20-30-151-115	964 N ADAMS RD APT 4	$782.38	$0.00
20-30-151-116	964 N ADAMS RD APT 8	$782.38	$0.00
20-30-151-117	964 N ADAMS RD APT 3	$782.38	$0.00
20-30-151-118	964 N ADAMS RD APT 7	$782.38	$0.00
20-30-151-119	982 N ADAMS RD APT 1	$782.38	$0.00
20-30-151-120	982 N ADAMS RD APT 5	$782.38	$0.00
20-30-151-121	982 N ADAMS RD APT 2	$782.38	$0.00
20-30-151-122	982 N ADAMS RD APT 6	$782.38	$0.00
20-30-151-123	982 N ADAMS RD APT 4	$782.38	$0.00
20-30-151-124	982 N ADAMS RD APT 8	$782.38	$0.00
20-30-151-125	982 N ADAMS RD APT 3	$782.38	$0.00
20-30-151-126	982 N ADAMS RD APT 7	$782.38	$0.00
20-30-151-127	900 N ADAMS RD	$782.38	$0.00

D. Public Hearing - Confirmation of SAD Roll 910 Arlington, Shirley, and Brandon Street Project – water/sewer

WHEREAS, Special Assessment Roll, designated Roll No. 910S and Roll No. 910W, has been heretofore prepared for Collection; and

WHEREAS, notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property to be assessed; and

WHEREAS, the Commission has deemed it practicable to cause payment of the cost thereof to be made after the time of construction; and

WHEREAS, the Commission Resolution 06-469-24 provided it would meet this 8th day of July, 2024 for the sole purpose of reviewing the assessment roll; and

WHEREAS, at said hearing held this July 8, 2024, all those property owners or their representatives present have been given an opportunity to be heard specifically concerning costs appearing in said special assessment roll;

NOW, THEREFORE, BE IT RESOLVED, that Special Assessment Roll No. 910S and Roll No. 910W be in all things ratified and confirmed, and that the City Clerk be and is hereby instructed to endorse said roll, showing the date of confirmation thereof, and to certify said assessment roll to the City Treasurer for collection at or near the time of construction of the improvement.

BE IT FURTHER RESOLVED, that the special assessment shall be payable in ten (10) payments as provided in Section 94-10 of the Code of the City of Birmingham, with an annual interest rate of nine and one half percent (9.50%) on all unpaid installments.

Sidwell Number	Street Address	Sewer Lateral SAD Assessment
19-35-202-033	218 Arlington	$5,600.00
19-35-202-035	280 Arlington	$4,600.00
19-35-202-036	316 Arlington	$4,400.00
19-35-202-039	414 Arlington	$6,000.00
19-35-202-042	500 Arlington	$3,000.00
19-35-202-043	550 Arlington	$6,800.00
19-35-202-045	700 Arlington	$4,400.00
19-35-202-048	800 Arlington	$4,000.00
19-35-202-050	898 Arlington	$4,200.00
19-35-202-055	1420 W Lincoln	$5,600.00
19-35-202-069	1589 W. Maple	$5,000.00

Sidwell Number	Street Address	Sewer Lateral SAD Assessment
19-35-226-002	175 Arlington	$5,200.00
19-35-226-003	243 Arlington	$4,600.00
19-35-226-004	269 Arlington	$5,600.00
19-35-226-006	345 Arlington	$6,000.00
19-35-226-009	100 Shirley	$6,800.00
19-35-226-010	188 Shirley	$4,600.00
19-35-226-011	226 Shirley	$4,200.00
19-35-226-012	252 Shirley (Vacant)	$3,400.00
19-35-226-016	377 Arlington	$5,400.00
19-35-226-017	350 Shirley	$6,600.00
19-35-227-004	345 Shirley	$4,800.00
19-35-227-005	361 Shirley	$3,800.00
19-35-227-006	381 Shirley	$7,000.00
19-35-227-008	421 Arlington	$7,600.00
19-35-227-009	445 Arlington	$5,800.00
19-35-227-010	463 Arlington	$4,800.00
19-35-227-011	487 Arlington	$5,800.00
19-35-227-013	585 Shirley	$7,400.00
19-35-227-035	619 Shirley	$8,200.00
19-35-227-036	663 Shirley	$8,200.00
19-35-276-001	503 Arlington	$6,400.00
19-35-276-002	577 Arlington	$3,600.00
19-35-276-003	645 Arlington	$5,000.00
19-35-276-006	779 Arlington	$6,000.00
19-35-276-007	843 Arlington	$6,200.00

Sidwell Number	Street Address	Sewer Lateral SAD Assessment
19-35-276-008	881 Arlington	$6,000.00
19-35-276-010	975 Arlington	$3,400.00
19-35-276-011	1057 Arlington	$7,000.00
19-35-276-013	640 Shirley	$2,000.00
19-35-276-015	770 Shirley	$3,000.00
19-35-276-016	822 Shirley	$4,400.00
19-35-276-017	880 Shirley	$7,400.00
19-35-276-018	914 Shirley	$5,400.00
19-35-276-022	1000 Shirley	$1,600.00
19-35-276-023	737 Arlington	$5,800.00
19-35-277-003	811 Shirley	$7,400.00
19-35-277-005	905 Shirley	$5,200.00
19-35-277-006	955 Shirley	$6,400.00

$261,600.00

Sidwell Number	Street Address	Water Lateral SAD Assessment
19-35-202-033	218 Arlington	$2,380.00
19-35-202-044	600 Arlington	$825.00
19-35-202-045	700 Arlington	$2,175.00
19-35-202-046	730 Arlington	$2,240.00
19-35-202-047	776 Arlington	$2,170.00
19-35-202-048	800 Arlington	$2,100.00
19-35-202-050	898 Arlington	$2,100.00
19-35-226-002	175 Arlington	$1,200.00
19-35-226-003	243 Arlington	$1,120.00
19-35-226-004	269 Arlington	$1,260.00
19-35-226-006	345 Arlington	$2,590.00
19-35-226-009	100 Shirley	$2,240.00
19-35-226-010	188 Shirley	$2,590.00
19-35-226-011	226 Shirley	$2,380.00
19-35-226-012	252 Shirley (Vacant)	$2,520.00
19-35-227-004	345 Shirley	$980.00
19-35-227-005	361 Shirley	$3,000.00
19-35-227-006	381 Shirley	$2,870.00
19-35-227-008	421 Arlington	$4,200.00
19-35-227-009	445 Arlington	$3,600.00
19-35-276-001	503 Arlington	$1,050.00
19-35-276-002	577 Arlington	$2,310.00
19-35-276-003	645 Arlington	$2,730.00
19-35-276-006	779 Arlington	$1,330.00
19-35-276-007	843 Arlington	$1,400.00

Sidwell Number	Street Address	Water Lateral SAD Assessment
19-35-276-008	881 Arlington	$1,400.00
19-35-276-011	1057 Arlington	$1,540.00
19-35-276-015	770 Shirley	$2,450.00
19-35-276-016	822 Shirley	$2,240.00
19-35-276-017	880 Shirley	$1,275.00
19-35-276-018	914 Shirley	$1,125.00
19-35-276-023	737 Arlington	$1,330.00
19-35-277-003	811 Shirley	$2,520.00
19-35-277-005	905 Shirley	$1,820.00

$69,060.00

***Communications received for 8D**

E. Public Hearing - Confirmation of SAD Roll 910 Arlington, Shirley, and Brandon Street Project – Paving

WHEREAS, Special Assessment Roll, designated Roll No. 910, has been heretofore prepared for Collection; and

WHEREAS, notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property to be assessed; and

WHEREAS, the Commission has deemed it practicable to cause payment of the cost thereof to be made after the time of construction; and
WHEREAS, the Commission Resolution 06-470-24 provided it would meet this 8th day of July, 2024 for the sole purpose of reviewing the assessment roll; and

WHEREAS, at said hearing held this July 8, 2024, all those property owners or their representatives present have been given an opportunity to be heard specifically concerning costs appearing in said special assessment roll;

NOW, THEREFORE, BE IT RESOLVED, that Special Assessment Roll No. 910 be in all things ratified and confirmed, and that the City Clerk be and is hereby instructed to endorse said roll, showing the date of confirmation thereof, and to certify said assessment roll to the City Treasurer for collection at or near the time of construction of the improvement.

BE IT FURTHER RESOLVED, that the special assessment shall be payable in ten (10) payments as provided in Section 94-10 of the Code of the City of Birmingham, with an annual interest rate of nine and one half percent (9.50%) on all unpaid installments.

Sidwell Number	Street Address	Paving Assessment
19-35-202-033	218 Arlington	$14,594.35
19-35-202-034	222 Arlington	$15,276.82
19-35-202-035	280 Arlington	$17,573.46
19-35-202-036	316 Arlington	$17,628.46
19-35-202-039	414 Arlington	$17,814.09
19-35-202-040	432 Arlington	$17,897.59
19-35-202-041	444 Arlington	$38,050.36
19-35-202-042	500 Arlington	$18,216.76
19-35-202-043	550 Arlington	$19,984.21
19-35-202-044	600 Arlington	$18,549.31
19-35-202-045	700 Arlington	$16,386.31
19-35-202-046	730 Arlington	$15,657.26
19-35-202-047	776 Arlington	$14,320.26
19-35-202-048	800 Arlington	$15,655.20
19-35-202-049	860 Arlington	$16,343.63
19-35-202-050	898 Arlington	$16,820.76
19-35-202-051	924 Arlington	$16,150.40
19-35-202-052	968 Arlington	$18,484.48

Sidwell Number	Street Address	Paving Assessment
19-35-202-053	992 Arlington	$17,467.70
19-35-202-055	1420 W Lincoln	$11,917.85
19-35-202-068	400 Arlington	$38,106.60
19-35-202-069	1589 W. Maple	$27,503.50
19-35-226-001	117 Arlington	$16,071.70
19-35-226-002	175 Arlington	$16,394.05
19-35-226-003	243 Arlington	$16,822.20
19-35-226-004	269 Arlington	$15,138.54
19-35-226-006	345 Arlington	$18,257.23
19-35-226-009	100 Shirley	$19,215.41
19-35-226-010	188 Shirley	$18,104.35
19-35-226-011	226 Shirley	$17,194.39
19-35-226-012	252 Shirley	$17,135.39
19-35-226-013	288 Shirley	$16,751.39
19-35-226-014	300 Shirley	$18,609.39
19-35-226-016	377 Arlington	$24,416.55
19-35-226-017	350 Shirley	$26,926.65
19-35-226-018	309 Arlington	$15,795.87
19-35-226-019	327 Arlington	$17,108.99
19-35-227-004	345 Shirley	$22,957.07
19-35-227-005	361 Shirley	$22,642.25
19-35-227-006	381 Shirley	$20,094.46
19-35-227-008	421 Arlington	$18,029.69
19-35-227-009	445 Arlington	$19,447.69
19-35-227-010	463 Arlington	$20,032.19

Sidwell Number	Street Address	Paving Assessment
19-35-227-011	487 Arlington	$20,856.12
19-35-227-012	503 Shirley	$18,548.46
19-35-227-013	585 Shirley	$19,012.25
19-35-227-034	680 Linden	$7,214.53
19-35-227-035	619 Shirley	$14,836.90
19-35-227-036	663 Shirley	$19,649.43
19-35-227-037	200 Linden	$5,276.77
19-35-276-001	503 Arlington	$31,224.64
19-35-276-002	577 Arlington	$15,814.45
19-35-276-003	645 Arlington	$29,677.35
19-35-276-006	779 Arlington	$17,170.54
19-35-276-007	843 Arlington	$17,366.54
19-35-276-008	881 Arlington	$16,253.20
19-35-276-009	945 Arlington	$16,398.32
19-35-276-010	975 Arlington	$26,543.69
19-35-276-011	1057 Arlington	$21,332.87
19-35-276-012	550 Shirley	$16,439.20
19-35-276-013	640 Shirley	$21,016.65
19-35-276-014	708 Shirley	$33,317.05
19-35-276-015	770 Shirley	$17,138.88
19-35-276-016	822 Shirley	$16,662.28
19-35-276-017	880 Shirley	$19,046.15
19-35-276-018	914 Shirley	$17,323.64
19-35-276-023	737 Arlington	$21,707.18
19-35-276-024	970 Shirley	$22,263.11

Sidwell Number	Street Address	Paving Assessment
19-35-277-001	735 Shirley	$21,396.37
19-35-277-002	789 Shirley	$16,015.20
19-35-277-003	811 Shirley	$15,294.45
19-35-277-004	855 Shirley	$20,037.43
19-35-277-005	905 Shirley	$16,598.56
19-35-277-006	955 Shirley	$21,610.77

$1,410,587.79

F. Resolution to award the Arlington, Shirley, and Brandon Project #6-24 (W) to DiPonio Contracting, LLC in the amount of $5,596,814.90 plus a 10% construction contingency for a total of $6,156,496.39. In addition, to authorize the Mayor and Clerk to sign the agreement on behalf of the City contingent upon execution of the agreement and meeting all insurance and bond requirements by DiPonio Contracting, LLC. Funding for this project has been budgeted in the following accounts for the following years:

Fund Account	Fund ID Number	Project Award	10% Cont.	Total
Sidewalk Fund – Gap Closures	101.0-444.000-981.0100	$24,375.00	$2,437.50	$26,812.50
Local Street Fund	203.0-449.001-981.0100	$2,305,363.90	$230,536.39	$2,535,900.29
Sewer Fund	590.0-537.000-981.0100	$1,962,477.50	$196,247.75	$2,158,725.25
Water Fund	591.0-544.000-981.0100	$1,304,598.50	$130,469.85	$1,435,058.32

AND

To approve the appropriation and amendment of the fiscal year 2024/2025 budget as follows:

Sidewalk Fund:
Revenues:

101.0-000.000-400.0000	Draw from Fund Balance	$26,820
Total Revenue		$26,820

Expenditures:

101.0-444.000-981.0100	Public Improvement	$26,820
Total Expenses		$26,820
Local Street Fund:		
Revenues:		
203.0-000.000-400.0000	Draw from Fund Balance	$2,535,910
Total Revenue		$2,535,910
Expenditures:		
203.0-449.001-981.0100	Public Improvement	$2,535,910
Total Expenses		$2,535,910
Sewer Fund:		
Revenues:		
590.0-000.000-400.0000	Draw from Net Position	$2,158,730
Total Revenue		$2,158,730
Expenditures:		
590.0-537.000-981.0100	Public Improvements	$2,158,730
Total Expenses		$2,158,730
Water Fund:		
Revenues:		
591.0-000.000-400.0000	Draw from Net Position	$1,430,060
Total Revenue		$1,430,060
Expenditures:		
591.0-544.000-981.0100	Public Improvement	$1,430,060
Total Expenses		$1,430,060

G. Resolution to assign each prioritization matrix related to the Birmingham 2040 Plan to the corresponding board/commission. In addition, to authorize the Planning Board to provide oversight of the prioritization matrices, with the understanding that the Planning Board would provide annual updates to the City Commission of progress and any changes.

H. Paving E. Lincoln Street, east of S. Eton Street

I. Request for Closed Session Under MCL § 15.268, Sec.8(1)(e) of the Open Meetings Act

A roll call vote is required and the vote must be approved by a 2/3 majority of the commission. The commission will adjourn to closed session after all other business has been addressed in open session and reconvene to open session, after the closed session, for purposes of taking formal action resulting from the closed session and for purposes of adjourning the meeting.

J. Commission Items for Future Discussion. A motion is required to bring up the item for future discussion at the next reasonable agenda, no discussion on the topic will happen tonight.

K. Commission discussion on items from a prior meeting.
   1. Golf Courses

IX. REMOVED FROM CONSENT AGENDA

X. COMMUNICATIONS

A. Shirley & Arlington letters from a prior meeting
B. Westwood letter from a prior meeting
C. YMCA/NEXT Letters

XI. REPORTS

A. Commissioner Reports
   1. Notice of intention to appoint to the Advisory Parking Committee
B. Commissioner Comments
C. Advisory Boards, Committees, Commissions' Reports and Agendas
D. Legislation
E. City Staff
   1. Dumpster Report
   2. Expanding Special Event Offerings
   3. Grant Update

INFORMATION ONLY

XII. ADJOURN

Should you wish to participate in this meeting, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**
You may also present your written statement to the City Commission, City of Birmingham, 151 Martin Street, P.O. Box 3001, Birmingham, Michigan 48012-3001 prior to the hearing.

NOTICE: Individuals requiring accommodations, such as mobility, visual, hearing, interpreter or other assistance, for effective participation in this meeting should contact the City Clerk's Office at (248) 530-1880 (voice), or (248) 644-3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.
Las personas que requieren alojamiento, tales como servicios de interpretación, la participación efectiva en esta reunión deben ponerse en contacto con la Oficina del Secretario Municipal al (248) 530-1880 por lo menos el día antes de la reunión pública. (Title VI of the Civil Rights Act of 1964).

BIRMINGHAM
A WALKABLE CITY

NOTICE OF INTENTION TO APPOINT TO THE GREENWOOD CEMETERY ADVISORY BOARD

At the regular meeting of Monday, July 8, 2024 the Birmingham City Commission intends to appoint three regular members to the Greenwood Cemetery Advisory Board to serve three-year terms to expire July 6, 2027.

Members must be chosen from among the citizens of Birmingham and, insofar as possible, represent diverse interests, such as persons with family members interred in Greenwood Cemetery; owners of burial sites within Greenwood Cemetery intending to be interred in Greenwood Cemetery; persons familiar with and interested in the history of Birmingham; persons with familiarity and experience in landscape architecture, horticulture, law or cemetery or funeral professionals.

Interested citizens may submit a form available at the City Clerk's Office on or before noon on Wednesday, July 3, 2024. These applications will appear in the public agenda for the regular meeting at which time the City Commission will discuss recommendations, and may make nominations and vote on the appointments.

Committee Duties

In general, it shall be the duty of the Greenwood Cemetery Advisory Board to provide recommendations to the City Commission on:

1. Modifications. As to modifications of the rules and regulations governing Greenwood Cemetery.
2. Capital Improvements. As to what capital improvements should be made to the cemetery. Future Demands. As to how to respond to future demands for cemetery services.
3. Day to Day Administration. The day to day administration of the cemetery shall be under the direction and control of the City, through the City Manager or his/her designee.
4. Reports. The Greenwood Cemetery Advisory Board shall make and submit to the City Commission an annual report of the general activities, operation, and condition of the Greenwood Cemetery for the preceding 12 months. The Greenwood Cemetery Advisory Board shall, from time to time, as occasion requires, either in the annual report, or at any time deemed necessary by the Greenwood Cemetery Advisory Board, advise the City Commission in writing on all matters necessary and proper for and pertaining to the proper operation of Greenwood Cemetery and any of its activities or properties.

All members of boards and commissions are subject to the provisions of City of Birmingham City Code Chapter 2, Article IX, Ethics and the filing of the Affidavit and Disclosure Statement.

Applicant(s) Presented for City Commission Consideration:

Applicant Name	**Criteria/Qualifications** Must be a resident of Birmingham and insofar as possible, represent diverse interests, such as persons with family members interred in Greenwood Cemetery; owners of burial sites within Greenwood Cemetery intending to be interred in Greenwood Cemetery; persons familiar with and interested in the history of Birmingham; persons with familiarity and experience in landscape architecture, horticulture, law or cemetery or funeral professionals.
Laura Schreiner	Resident; owner of burial site
Linda Peterson	Resident; current co-chairperson
Paul Connell	Resident; funeral director

SUGGESTED RESOLUTION:
To appoint_____ to the Greenwood Cemetery Advisory Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____ to the Greenwood Cemetery Advisory Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____ to the Greenwood Cemetery Advisory Board as a regular member to serve a three-year term to expire July 6, 2027.

BIRMINGHAM
A WALKABLE CITY

Mya Brown <mbrown@bhamgov.org>

FromClerksOffice- APPLICATION FOR CITY BOARD OR COMMITTEE [#13]

1 message

'Wufoo' via Clerks Office <ClerksOffice@bhamgov.org> Wed, Jun 12, 2024 at 1:30 PM
Reply-To: no-reply@wufoo.com
To: clerksOffice@bhamgov.org

Board/Committee of Interest	Greenwood
Specific Category/Vacancy on Board (see below)	Renewal of current appointment
Name	Laura Schreiner
Residential Address	591 Bird Avenue Birmingham, MI 48009 United States
Business Address	800 West Long Lake, Suite 230 Bloomfield Hills, MI 48302 United States
Phone Number *	(248) 219-5890
Email **By providing your email to the City, you agree to receive news and notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.**	laschreiner@yahoo.com
Length of Residence	20+ years
Occupation	Attorney
Reason for Interest: Explain how your background and skills will enhance the board to which you have applied.	I grew up in a house on Lakeside; I currently live in Birmingham. I have always enjoyed Greenwood, its history/setting, & do have a plot for future use. I have former/deceased clients whom are interred in Greenwood, current clients w/ family members interred in Greenwood, current clients with plots for future use, as well as have assisted clients in private transfers of plots.
List your related employment experience	Attorney (Estate Plan/Estate Administration/Tax/Real Estate) in Bloomfield Hills
List your related community activities	Greenwood Cemetery Advisory Committee then Greenwood Cemetery Advisory Board; Election Inspector - Absentee Ballot Counting Board
List your related educational experience	Golden Gate University, JD; University of Michigan, BS - Architecture; University of Michigan, BA - Psychology
To the best of your knowledge, do you or a member of your immediate family have any direct financial or business relationships with any supplier, service provider or contractor of the City of Birmingham from	Not specifically or directly. However, my firm prepared estate plans for a service provider/contractor's family at value but not for the actual service provider/contractor themselves. There is no ongoing relationship. Additionally, though outside of the scope of the question,

which you or they derive direct compensation or financial benefit? If yes, please explain.	when I have worked as an Election Inspector I have been paid by Birmingham the then hourly rate.
Do you currently have a relative serving on the board/committee to which you have applied?	No
Are you an elector (registered voter) in the City of Birmingham? *	Yes

RECEIVED
JUL 02 2024
11:58 AM
CLERK'S OFFICE

BIRMINGHAM
A WALKABLE CITY

OFFICE USE ONLY
Meets Requirements? Yes No
Will Attend / Unable to Attend

APPLICATION FOR CITY BOARD OR COMMITTEE

Thank you for your interest in serving on a Board or Committee. The purpose of this form is to provide the City Commission with basic information about applicants considered for appointment. NOTE: Completed applications are included in the City Commission agenda packets. The information included on this form is open to the public. All Board and Committee members are subject to the provisions of the Ethics Ordinance (Chapter 2, Article IX of the City Code).

Information on various Boards and Committees and a list of current openings can be found on the City website at www.bhamgov.org/boardopportunities.

(Please print clearly)

Board/Committee of Interest RESEARCH CEMETERY ADV BOARD

Specific Category/Vacancy on Board RCAB (see back of this form for information)

Name LINDA PETERSON

Phone 248-894-9016

Residential Address 1532 S. MORTON

Email * LPETERSON62@COMCAST.NET

Residential City, Zip B'HAM, MI 48009

Length of Residence 27 years

Business Address SAME

Occupation ADVERTISING / MARKETING

Business City, Zip

Reason for Interest: Explain how your background and skills will enhance the board to which you have applied

HAVE PARENTS INTERRED & PLAN TO BE ALSO AT ERELWOOD - CARE ABOUT PAST & FUTURE OF CEMETERY

List your related employment experience I HAVE SERVED ON RCAB SINCE INCEPTION -

List your related community activities SIMPLY CARE ABOUT THE CITY OF BIRMINGHAM, RESIDENTS, GOALS & ACCOMPLISHMENTS

List your related educational experience COMMUNICATION / MARKETING DEGREE -

To the best of your knowledge, do you or a member of your immediate family have any direct financial or business relationships with any supplier, service provider or contractor of the City of Birmingham from which you or they derive direct compensation or financial benefit? If yes, please explain: NO

Do you currently have a relative serving on the board/committee to which you have applied? NO

Are you an elector (registered voter) in the City of Birmingham? YES

Signature of Applicant

Date 7/2/24

Return the completed and signed application form to: City of Birmingham, City Clerk's Office, 151 Martin, Birmingham, MI 48009 or by email to clerk@bhamgov.org or fax to 248.530.1080.

Updated 11/18/2020

*By providing your email to the City, you agree to receive news & notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.

BIRMINGHAM
A WALKABLE CITY

OFFICE USE ONLY
Meets Requirements? Yes No

Will Attend / Unable to Attend

APPLICATION FOR CITY BOARD OR COMMITTEE

Thank you for your interest in serving on a Board or Committee. The purpose of this form is to provide the City Commission with basic information about applicants considered for appointment. NOTE: Completed applications are included in the City Commission agenda packets. The information included on this form is open to the public. All Board and Committee members are subject to the provisions of the Ethics Ordinance (Chapter 2, Article IX of the City Code).

Information on various Boards and Committees and a list of current openings can be found on the City website at www.bhamgov.org/boardopportunities.

(Please print clearly)

Board/Committee of Interest G.C.A.B.

Specific Category/Vacancy on Board _____ (see back of this form for information)

Name Paul S. Connell

Phone 248-770-0968

Residential Address 870 Davis Ave.

Email * pConnell@AJDesmond.com

Residential City, Zip Birmingham 48009

Length of Residence 27years

Business Address _____

Occupation Retired Funeral Director

Business City, Zip _____

Reason for Interest: Explain how your background and skills will enhance the board to which you have applied

To continue to serve on the board.

List your related employment experience Sering over 50 years as a funeral director.

List your related community activities Birmingham Lions Club

List your related educational experience Wayne State University

To the best of your knowledge, do you or a member of your immediate family have any direct financial or business relationships with any supplier, service provider or contractor of the City of Birmingham from which you or they derive direct compensation or financial benefit? If yes, please explain: Yes, we conduct funeral related services

Do you currently have a relative serving on the board/committee to which you have applied? no

Are you an elector (registered voter) in the City of Birmingham? yes

Paul S Connell
Signature of Applicant

7/2/24
Date

Return the completed and signed application form to: City of Birmingham, City Clerk's Office, 151 Martin, Birmingham, MI 48009 or by email to clerk@bhamgov.org or fax to 248.530.1080.

Updated 11/18/2020

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BIRMINGHAM
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GREENWOOD CEMETERY ADVISORY BOARD

Resolution No. 10-240-14 October 13, 2014.

The Greenwood Cemetery Advisory Board shall consist of seven members who shall serve without compensation. Members must be chosen from among the citizens of Birmingham and, insofar as possible, represent diverse interests, such as persons with family members interred in Greenwood Cemetery; owners of burial sites within Greenwood Cemetery intending to be interred in Greenwood Cemetery; persons familiar with and interested in the history of Birmingham; persons with familiarity and experience in landscape architecture, horticulture, law or cemetery or funeral professionals. The City Manager or his/her designee shall serve as ex official, non-voting members of the Board.

Term: Three years.

In general, it shall be the duty of the Greenwood Cemetery Advisory Board to provide recommendations to the City Commission on:

1. Modifications. As to modifications of the rules and regulations governing Greenwood Cemetery.
2. Capital Improvements. As to what capital improvements should be made to the cemetery. Future Demands. As to how to respond to future demands for cemetery services.
3. Day to Day Administration. The day to day administration of the cemetery shall be under the direction and control of the City, through the City Manager or his/her designee.
4. Reports. The Greenwood Cemetery Advisory Board shall make and submit to the City Commission an annual report of the general activities, operation, and condition of the Greenwood Cemetery for the preceding 12 months. The Greenwood Cemetery Advisory Board shall, from time to time, as occasion requires, either in the annual report, or at any time deemed necessary by the Greenwood Cemetery Advisory Board, advise the City Commission in writing on all matters necessary and proper for and pertaining to the proper operation of Greenwood Cemetery and any of its activities or properties.

Last Name Home Address	First Name	Home Business E-Mail	Appointed	Term Expires
Buchanan 1280 Suffield Birmingham 48009	**Linda**	(248) 646-3297 *lgbfeb23@gmail.com*	12/14/2015 Chair	7/7/2025
Connell 870 Davis Ave Birmingham 48009	**Paul S.**	(248) 770-0968 *PConnell@ajdesmond.com*	6/26/2023 resident; retired funeral director	7/6/2024

Last Name	First Name	Home Business E-Mail	Appointed	Term Expires
Patt 717 Redding Road Birmingham 48009	**Jacqueline**	(248) 561-4052 *jlpatt2@gmail.com*	6/5/2023	7/6/2026
Peterson 1532 Melton Birmingham 48009	**Linda**	(248) 894-9010 *lpeterson02@comcast.net*	11/24/2014 Vice Chair	7/6/2024
Schreiner 591 Bird Birmingham 48009	**Laura**	(248) 593-0335 *laschreiner@yahoo.com*	11/24/2014 owner of burial site in Greenwood; person familiar with and interested in the history of Birmingham.	7/6/2024
Suter 1795 Yosemite Birmingham 48009	**Margaret**	(248) 644-5925 *maasuter@gmail.com*	5/23/2016 owns a plot, relative buried in Greenwood Cemetery	7/7/2025
Vercellone 572 W. Lincoln Birmingham 48009	**Joseph**	(248) 798-0460 *jvercellone@gmail.com*	8/10/2020 Plot owner	7/6/2026

CITY BOARD/COMMITTEE ATTENDANCE RECORD

Name of Board: Greenwood Cemetery Advisory Board **Year:** 2023

Members Required for Quorum: 4

MEMBER NAME	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	SPEC MTG	SPEC MTG	Total Mtgs. Att.	Total Absent	Percent Attended Available
REGULAR MEMBERS																	
Linda Buchanan	CM	P	CM	P	CM	CM	P	P	P	P	NM	CM			6	0	100%
Pam DeWeese (exp. 7/23)	CM	P	CM	A	CM	CM	NA	NA	NA	NA	NA	NA			1	1	50%
Joseph Vercellone	CM	P	CM	P	CM	CM	P	P	P	A	NM	CM			5	1	83%
Linda Peterson	CM	P	CM	A	CM	CM	P	P	P	P	NM	CM			5	1	83%
Laura Schreiner	CM	P	CM	A	CM	CM	P	P	CP	P	NM	CM			5	1	83%
George Stern (exp. 7/2023)	CM	P	CM	P	CM	CM	NA	NA	NA	NA	NA	NA			2		100%
Margaret Suter	CM	P	CM	P	CM	CM	P	P	P	P	NM	CM			6	0	100%
Paul Connell	NA	NA	NA	NA	NA	NA	P	P	P	P	NM	CM			4	0	100%
Jacqueline Patt	NA	NA	NA	NA	NA	NA	P	P	P	P	NM	CM			4	0	100%
Reserved															0	0	
Reserved															0	0	
Present or Available	0	**7**	0	**4**	0	0	**7**	**7**	**7**	**6**	0	0	0	0%			

KEY:
A = Member absent
P = Member present or available
CP = Member available, but meeting canceled for lack of quorum
CA = Member not available and meeting was canceled for lack of quorum
NA = Member not appointed at that time
NM = No meeting scheduled that month
CM = Meeting canceled for lack of business items

Alexandria D. Bingham

Department Head Signature

CITY BOARD/COMMITTEE ATTENDANCE RECORD

Name of Board: Greenwood Cemetery Advisory Board **Year:** 2022

Members Required for Quorum: 4

MEMBER NAME	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	SPEC MTG	SPEC MTG	Total Mtgs. Att.	Total Absent	Percent Attended Available
REGULAR MEMBERS																	
Linda Buchanan	P	CM	P	P	P	P	P	NM	P	NM	P	P			9	0	100%
Pam DeWeese	P	CM	P	P	P	P	A	NM	P	NM	P	P			8	1	89%
Joseph Vercellone	A	CM	P	P	A	A	A	NM	P	NM	P	A			4	5	44%
Linda Peterson	P	CM	P	P	P	P	P	NM	P	NM	P	P			9	0	100%
Laura Schreiner	P	CM	P	P	P	P	P	NM	P	NM	P	P			9	0	100%
George Stern	P	CM	P	P	A	P	P	NM	P	NM	P	P			8	1	89%
Margaret Suter	P	CM	P	P	P	A	A	NM	P	NM	P	P			7	2	78%
Reserved															0	0	
Reserved															0	0	
Present or Available	**6**	0	**7**	**7**	**5**	**5**	**4**	0	**7**	0	**7**	**6**	0	0%			

KEY:
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NA = Member not appointed at that time
NM = No meeting scheduled that month
CM = Meeting canceled for lack of business items

Alexandria D. Bingham

Department Head Signature

CITY BOARD/COMMITTEE ATTENDANCE RECORD

Name of Board: Greenwood Cemetery Advisory Board **Year:** 2021

Members Required for Quorum: 4

MEMBER NAME	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	SPEC MTG	SPEC MTG	Total Mtgs. Att.	Total Absent	Percent Attended Available
REGULAR MEMBERS																	
Linda Buchanan	P	P	P	P	P	P	P	P	CM	P	CM	P			10	0	100%
Pam DeWeese	P	P	P	P	P	P	P	A	CM	P	CM	P			9	1	90%
Joseph Vercellone	P	P	A	A	P	A	A	A	CM	P	CM	A			4	6	40%
Linda Peterson	P	P	P	P	P	P	P	P	CM	P	CM	P			10	0	100%
Laura Schreiner	P	P	P	P	P	P	P	P	CM	P	CM	P			10	0	100%
George Stern	P	P	P	P	P	P	P	P	CM	P	CM	P			10	0	100%
Margaret Suter	P	P	P	P	P	P	P	P	CM	P	CM	P			10	0	100%
Reserved															0	0	
Reserved															0	0	
Present or Available	**7**	**7**	**6**	**6**	**7**	**6**	**6**	**5**	0	**7**	0	**6**	0	0%			

KEY:
A = Member absent
P = Member present or available
CP = Member available, but meeting canceled for lack of quorum
CA = Member not available and meeting was canceled for lack of quorum
NA = Member not appointed at that time
NM = No meeting scheduled that month
CM = Meeting canceled for lack of business items

Alexandria D. Bingham

Department Head Signature

Sec. 34-30. - Establishment of the Greenwood Cemetery advisory board.

(a) *Composition.* There is hereby established the Greenwood Cemetery advisory board for the city which shall consist of seven members who shall serve without compensation. Members must be chosen from among the citizens of Birmingham and, insofar as possible, represent diverse interests, such as persons with family members interred in Greenwood Cemetery; owners of burial sites within Greenwood Cemetery intending to be interred in Greenwood Cemetery; persons familiar with and interested in the history of Birmingham; persons with familiarity and experience in landscape architecture, horticulture, law or cemetery or funeral professionals. The city manager or his/her designee shall serve as ex officio, non-voting members of the board.

(b) *Terms of members.* Each member shall be appointed for a term of three years ending on the first Monday of July of the third year after appointment, or upon the appointment of his successor, whichever is later, except that in the first instance three of the members shall be appointed for a one-year term and two shall be appointed for two-year terms. Vacancies occurring other than through the expiration of term shall be filled for the unexpired term by the city commission.

(c) *Removal of members.* Members of the Greenwood Cemetery advisory board shall hold office at the pleasure of the city commission and can be removed at any time with or without cause.

(d) *Organization.* The Greenwood Cemetery Advisory Board shall elect a chairperson and vice-chairperson from its membership annually at its first meeting after the first Monday of July.

(e) *Meetings.* The Greenwood Cemetery Advisory Board shall hold at least one regular public meeting in each quarter on such date and at such time and place as may be established by resolution of the Greenwood Cemetery advisory board. The Greenwood Cemetery advisory board shall keep a written or printed record of its proceedings which shall be a public record and property of the city.

(f) *Expenditures and assistance.* The Greenwood Cemetery advisory board may call upon the city manager for such services and data from the various departments as it may require. The Greenwood Cemetery advisory board may recommend to the city commission the securing of such professional and consulting services as it may require, however, the Greenwood Cemetery advisory board shall not have any authority to authorize or otherwise obligate the city to incur expenses and/or approve contracts. Requests for expenditures shall be routed through the ex-officio member(s) of the board to the city commission for consideration.

(g) *Powers and duties.* In general, it shall be the duty of the Greenwood Cemetery advisory board to provide recommendations to the city commission:

(1) *Modifications.* As to modifications of the rules and regulations governing Greenwood Cemetery;

(2) *Capital improvements.* As to what capital improvements should be made to the cemetery;

(3)

Future demands. As to how to respond to future demands for cemetery services; and

(4) *Day to day administration.* The day to day administration of the cemetery shall be under the direction and control of the city, through the city manager or his/her designee.

(h) *Reports.* The Greenwood Cemetery advisory board shall make and submit to the city commission annually a report of the general activities, operation, and condition of the Greenwood Cemetery for the preceding 12 months. The Greenwood Cemetery advisory board shall, from time to time, as occasion requires, either in the annual report, or at any time deemed necessary by the Greenwood Cemetery advisory board, advise the city commission in writing on all matters necessary and proper for and pertaining to the proper operation of Greenwood Cemetery and any of its activities or properties.

(i) *Protection of property.* No person shall take, use, or occupy the Greenwood Cemetery except in accordance with such rules and regulations governing such as may from time to time be authorized by the city commission.

(Ord. No. 2146, 10-13-14)

BIRMINGHAM
A WALKABLE CITY

NOTICE OF INTENTION TO APPOINT TO THE MUSEUM BOARD

At the regular meeting of Monday, July 8, 2024, the Birmingham City Commission intends to appoint to the Museum Board two regular members to serve three-year terms to expire July 6, 2027, and one alternate member to serve a three-year term to expire July 6, 2027.

Interested parties may submit an application available at the City Clerk's office on or before noon on Wednesday, July 3, 2024. These applications will appear in the public agenda for the regular meeting at which time the commission will discuss recommendations, and may make nominations and vote on appointments.

Board Duties

The Museum Board is charged with collecting, arranging, cataloguing and preserving historical material. The Board may locate and erect plaques or markers at historic sites, buildings or properties in the City of Birmingham with the consent of the owner or owners of any such property and subject to the approval of the City Commission with respect to properties that, in the opinion of the Board, have historic significance. Further, the Board shall have the power to develop, operate and maintain the Allen House as a museum and to exercise authority, control and management over the Hunter House and John West Hunter Memorial Park.

NOTE: All members of boards and commissions are subject to the provisions of City of Birmingham City Code Chapter 2, Article IX, Ethics and the filing of the Affidavit and Disclosure Statement.

Applicant(s) Presented For City Commission Consideration:

Applicant Name	**Criteria/Qualifications** • Shall be qualified electors of the City
Jay R Shell	Current Museum Board member; qualified elector and Friends of the Birmingham Museum member
Eva Kirkman	Qualified elector of the City; strong background in non-profit fund raising who is currently employed as a director at CCS Fundraising
Beverly Erickson	Current Museum Board member; qualified elector and Friends of the Birmingham Museum member

SUGGESTED COMMISSION ACTION:

To appoint_____to the Museum Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____to the Museum Board as a regular member to serve a three-year term to expire July 6, 2027.

To appoint_____to the Museum Board as an alternate member to serve a three-year term to expire July 6, 2027.

BIRMINGHAM
A WALKABLE CITY

RECEIVED
JUN 12 2024
4:09 PM
CLERK'S OFFICE

OFFICE USE ONLY
Meets Requirements? Yes No
Will Attend / Unable to Attend

APPLICATION FOR CITY BOARD OR COMMITTEE

Thank you for your interest in serving on a Board or Committee. The purpose of this form is to provide the City Commission with basic information about applicants considered for appointment. NOTE: Completed applications are included in the City Commission agenda packets. The information included on this form is open to the public. All Board and Committee members are subject to the provisions of the Ethics Ordinance (Chapter 2, Article IX of the City Code).

Information on various Boards and Committees and a list of current openings can be found on the City website at www.bhamgov.org/boardopportunities.

(Please print clearly)

Board/Committee of Interest MUSEUM BOARD

Specific Category/Vacancy on Board MEMBER OF FRIENDS OF MUSEUM (see back of this form for information)

Name JAY R. SHELL

Phone 248 890 6333

Residential Address 1121 NORTHLAWN

Email * JAY.SHELL@GMAIL.COM

Residential City, Zip BIRMINGHAM 48009

Length of Residence 31 YEARS

Business Address

Occupation I.T. DIRECTOR

Business City, Zip

Reason for Interest: Explain how your background and skills will enhance the board to which you have applied

CURRENT BOARD MEMBER OF THE BIRMINGHAM MUSEUM

List your related employment experience I.T. GOVERNANCE, POLICY, ALSO AN ACTIVE PAINTER/ARTIST AND COLLECTOR

List your related community activities FORMER NEIGHBORHOOD ASSN. PRESIDENT (15 YEARS)

List your related educational experience MASTER GARDENER

To the best of your knowledge, do you or a member of your immediate family have any direct financial or business relationships with any supplier, service provider or contractor of the City of Birmingham from which you or they derive direct compensation or financial benefit? If yes, please explain: NO

Do you currently have a relative serving on the board/committee to which you have applied? NO

Are you an elector (registered voter) in the City of Birmingham? YES I AM

Signature of Applicant

12 JUNE 2024
Date

Return the completed and signed application form to: City of Birmingham, City Clerk's Office, 151 Martin, Birmingham, MI 48009 or by email to clerk@bhamgov.org or fax to 248.530.1080.

Updated 11/18/2020

*By providing your email to the City, you agree to receive emails & notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.

1121 Northlawn, Birmingham, Michigan 48009

June 24, 2024

City of Birmingham, Michigan

151 Martin Street

Birmingham, MI 48009

RE: Reappointment of Jay R. Shell to the Birmingham Museum Board

City Commissioners,

Unfortunately, my schedule will not permit me to attend the City Commission meeting July 8, 2024 in person to profess my interest to continue to serve the City of Birmingham as a member of the Birmingham Museum Board of Directors.

As the Museum Board moves into the process of refining our long-term strategic plan, I am excited to leverage my professional skills of strategic planning, governance, and policy writing. In addition, with the execution of the Museum multi-stage landscape development plan, I see value contributing my Master Gardener knowledge / expertise to help ensure that we have a sustainable, attractive museum grounds that citizens can enjoy well into the future.

Should you have any questions for me please do not hesitate reaching out.

Respectfully,

Jay R. Shell

248-890-6333

Jay.shell@gmail.com

CLERK'S OFFICE

RECEIVED

JUN 24 2024
9:11 AM

July 1, 2024

Attention: City Commissioners,

Reason: Jay Shell, Museum Board Member

I recommend that the reappointment of Jay Shell to the Museum Board be postponed until the ethics complaint he filed has been resolved. This complaint involves Leslie Pielack, Director of the Museum. I feel his reappointment would be in conflict with his current complaint against the city staff serving our board.

Sincerely,

Marty Roush-Logue

Marty Roush-Logue, Museum Board Chair

CLERK'S OFFICE
RECEIVED
JUL 01 2024
11:22 AM

BIRMINGHAM
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Alex Bingham <abingham@bhamgov.org>

Fwd: Museum Board Appointment

Jana Ecker <Jecker@bhamgov.org> Mon, Jul 1, 2024 at 11:20 AM
To: Alex Bingham <abingham@bhamgov.org>

Please include in the City Commission agenda packet under appointments.

Thanks,

Jana L. Ecker
City Manager
Birmingham, MI
(248) 530-1811

---------- Forwarded message ---------
From: **JL WK** <jlwk2014@gmail.com>
Date: Sun, Jun 30, 2024 at 10:44 AM
Subject: Museum Board Appointment
To: <jecker@bhamgov.org>

To Birmingham City Commission;
I am concerned that the public ethics complaint regarding our museum director, on the part of Jay Shell, will distract from our focus and goals for our museum.
So I'm suggesting that his reappointment to the museum board be delayed until this issue is concluded.
Regards,
Judith Keefer
Museum Board Member
Sent from my iPhone

BIRMINGHAM
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Mya Brown <mbrown@bhamgov.org>

FromClerksOffice- APPLICATION FOR CITY BOARD OR COMMITTEE [#11]

1 message

'Wufoo' via Clerks Office <ClerksOffice@bhamgov.org> Mon, Jun 3, 2024 at 12:57 PM
Reply-To: no-reply@wufoo.com
To: clerksOffice@bhamgov.org

Board/Committee of Interest	Museum Board
Specific Category/Vacancy on Board (see below)	Regular Member
Name	Eva Kirkman
Residential Address	1031 Knox St Birmingham, MI 48009 United States
Business Address	1031 Knox St Birmingham, MI 48009 United States
Phone Number	(586) 945-6549
Email **By providing your email to the City, you agree to receive news and notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.**	eva.m.kirkman@gmail.com
Length of Residence	20+ years
Occupation	Nonprofit Fundraising Consultant

Reason for Interest: Explain how your background and skills will enhance the board to which you have applied.

With nearly two decades of living in the Birmingham community, I bring a deep personal connection and commitment to the city's cultural and historical legacy.

My professional background is in nonprofit fundraising. My career journey has honed my skills in successful eight-figure fundraising campaigns, and the ability to foster strong, enduring relationships within the communities I serve. These strengths align seamlessly with the museum's mission to explore meaningful connections with our past, enriching the community and enhancing it's character and sustainability.

My background and longstanding connection to Birmingham will enable me to effectively support the museum's efforts in the execution of the strategic plan and promoting understanding of Birmingham's historical and cultural legacy through preservation.

List your related employment experience

I am currently a director at CCS Fundraising, a leading nonprofit consulting firm. I have played role in driving significant fundraising efforts.

I have overseen several eight-figure campaigns, demonstrating my ability to consistently deliver on campaign targets. My experience also includes conducting comprehensive campaign feasibility studies and stewardship studies, all of which culminated in strong final recommendations for client improvements and growth.

This background in fundraising and strategic analysis positions me as a valuable asset for the Birmingham Museum Board, as I know the importance of continued finical growth and support from the community.

I have also worked at March of Dimes and the National Multiple Sclerosis Society in fundraising and community development (in NYC & LA).

List your related community activities	I am a member of Oakland County Impact 100, an organization that empowers women to collectively fund transformational grants to local nonprofits. The organization awards high-impact grants to initiatives that address critical needs in the community. I am also the Vice-Chairperson for the Metro Detroit YMCA Camping Services Board. I have been a member of this board for 8 years and enjoy giving my time to great summer camps that serve the youth of the Metro Detroit area.

List your related educational experience

I graduated from Pace University in NYC with my degree in Women's and Gender Studies and a minor in Non-profit Studies. My WGS degree has equipped me with the tools to create inclusive spaces and approach challenges through a lens of diversity and inclusion.

This educational background has deepened my understanding of intersectionality and it enables me to foster environments where diverse perspectives are valued and integrated, ensuring that all community members feel seen, heard, and respected. This commitment to inclusivity and equity informs every aspect of my professional and personal endeavors.

To the best of your knowledge, do you or a member of your immediate family have any direct financial or business relationships with any supplier, service provider or contractor of the City of Birmingham from which you or they derive direct compensation or financial benefit? If yes, please explain.	No
Do you currently have a relative serving on the board/committee to which you have applied?	No
Are you an elector (registered voter) in the City of Birmingham? *	Yes

JUN 18 2024
10:06 AM

BIRMINGHAM
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OFFICE USE ONLY
Meets Requirements? Yes No

Will Attend / Unable to Attend

RECEIVED

CLERK'S OFFICE

APPLICATION FOR CITY BOARD OR COMMITTEE

Thank you for your interest in serving on a Board or Committee. The purpose of this form is to provide the City Commission with basic information about applicants considered for appointment. NOTE: Completed applications are included in the City Commission agenda packets. The information included on this form is open to the public. All Board and Committee members are subject to the provisions of the Ethics Ordinance (Chapter 2, Article IX of the City Code).

Information on various Boards and Committees and a list of current openings can be found on the City website at www.bhamgov.org/boardopportunities.

(Please print clearly)

Board/Committee of Interest Museum Board

Specific Category/Vacancy on Board Board Member (see back of this form for information)

Name Beverly Erickson

Residential Address 1841 maryland

Residential City, Zip 48009

Business Address

Business City, Zip

Phone 2485614128

Email * beverickson@comcast.net

Length of Residence 20yrs

Occupation retired

Reason for Interest: Explain how your background and skills will enhance the board to which you have applied

I am presently on the board and wish to continue my service

List your related employment experience Real Estate Executive

List your related community activities Volunteer - animals, seniors

List your related educational experience MBA

To the best of your knowledge, do you or a member of your immediate family have any direct financial or business relationships with any supplier, service provider or contractor of the City of Birmingham from which you or they derive direct compensation or financial benefit? If yes, please explain:

NO

Do you currently have a relative serving on the board/committee to which you have applied? NO

Are you a elector (registered voter) in the City of Birmingham? Yes

Signature of Applicant

6-18-2024
Date

Return the completed and signed application form to: City of Birmingham, City Clerk's Office, 151 Martin, Birmingham, MI 48009 or by email to clerk@bhamgov.org or fax to 248.530.1080.

Updated 11/18/2020

By providing your email to the City, you agree to receive news & notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.

3B

BIRMINGHAM
A WALKABLE CITY

MUSEUM BOARD

Chapter 62 - Section 62-26
Terms - Three years - expiring first Monday in July
Eight Members: Six are electors and appointed by city commission
One member is an Alternate
One is owner of a business and appointed by the city manager

The Museum Board is charged with collecting, arranging, cataloguing and preserving historical material. The board may locate and erect plaques or markers at historic sites, buildings or properties in the City of Birmingham with the consent of the owner or owners of any such property and subject to the approval of the city commission with respect to properties that, in the opinion of the board, have historic significance. Further, the board shall have the power to develop, operate and maintain the Allen House as a museum and to exercise authority, control and management over the Hunter House and John West Hunter Memorial Park.

Last Name Home Address	First Name	Home Business E-Mail	Appointed	Term Expires
Barrett 915 Harmon	**Kristy Hull**	248-504-1981 *kristybarrett1@yahoo.com*	7/10/2023 alternate	7/6/2026
Erickson 1841 Maryland	**Bev**	(248) 561-4178 *beverickson@comcast.net*	7/26/2021 Regular member/BHS	7/5/2024
Harris 2600 Buckingham	**Alexandra**	(248) 686-4077 *akharrisart@gmail.com*	6/26/2023 Regular member/BHS	7/6/2026

BIRMINGHAM MUSEUM, 556 West Maple, Birmingham, MI 48009
phone: 248.530.1928 fax: 248.530.1685 www.bhamgov.org/museum
Leslie Pielack, Museum Director: lpielack@ci.birmingham.mi.us

Last Name Home Address	First Name	Home Business E-Mail	Appointed	Term Expires
Hughes 915 Kennesaw	**Patrick J**	(248)417-0470 *phughes@brickstory.com*	9/23/2019 City manager appointee/business owner	7/5/2025
Keefer 505 E. Lincoln #4	**Judith**	(248)249-0996 *jlwk2014@gmail.com*	7/11/2016 Regular member/BHS	7/5/2025
Logue 2010 Buckingham	**Marty**	(248) 649-4921 *gtfieros@comcast.net*	6/26/2023 Regular member/BHS	7/6/2026
Shell 1121 Northlawn	**Jay R.**	(248) 890-6333 *jay.shell@gmail.com*	8/9/2021 Regular member/BHS	7/5/2024
Vacated	**4/19/2024**		Regular member/BHS	7/6/2026

BIRMINGHAM MUSEUM, 556 West Maple, Birmingham, MI 48009
phone: 248.530.1928 fax: 248.530.1685 www.bhamgov.org/museum
Leslie Pielack, Museum Director: lpielack@ci.birmingham.mi.us

CITY BOARD/COMMITTEE ATTENDANCE RECORD

Name of Board: Museum Board **Year:** 2024

Members Required for Quorum: 4

MEMBER NAME	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	SPEC MTG	SPEC MTG	Total Mtgs. Att.	Total Absent	Percent Attended Available
REGULAR MEMBERS																	
Marty Logue	P	P	P	P	P	P									6	0	100%
Judith Keefer	P	A	A	A	P	P									3	3	50%
Pat Hughes	A	A	P	A	A	P									2	4	33%
Jay Shell	A	P	P	P	A	P									4	2	67%
Bev Erickson	P	A	P	A	A	A									2	4	33%
Caroline Ashleigh	A	A	A	A	NA	NA									0	4	0%
Alexandra Harris	P	P	P	P	P	A									5	1	83%
Reserved															0	0	#DIV/0!
Reserved															0	0	#DIV/0!
ALTERNATES																	
Kristy Barrett	P	P	P	P	P	P									6	0	100%
															0	0	#DIV/0!
Reserved															0	0	#DIV/0!
Reserved															0	0	#DIV/0!
Present or Available	**5**	**4**	**6**	**4**	**4**	**5**	0	0	0	0	0	0	0	0			

KEY:
A = Member absent
P = Member present or available
CP = Member available, but meeting canceled for lack of quorum
CA = Member not available and meeting was canceled for lack of quorum
NA = Member not appointed at that time
NM = No meeting scheduled that month
CM = Meeting canceled for lack of business items

Department Head Signature

CITY BOARD/COMMITTEE ATTENDANCE RECORD

Name of Board: Museum Board **Year:** 2023

Members Required for Quorum: 4

MEMBER NAME	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	SPEC MTG	SPEC MTG	Total Mtgs. Att.	Total Absent	Percent Attended Available
REGULAR MEMBERS																	
Marty Logue	P	P	P	NM	P	P	P	P	P	P	P	P			11	0	100%
Judith Keefer	P	A	P	NM	A	A	A	P	P	P	A	P			6	5	55%
Pat Hughes	A	P	A	NM	P	A	A	A	A	P	P	A			4	7	36%
Jay Shell	P	P	A	NM	P	P	A	P	P	P	P	P			9	2	82%
Bev Erickson	P	P	P	NM	P	P	P	A	P	A	P	P			9	2	82%
Kristy Barrett	P	A	P	NM	P	P									4	1	80%
Alexandra Harris	P	P	P	NM	P	P	P	P	P	P	P	P			11	0	100%
Caroline Ashleigh							P	P	P	P	A	P			5	1	83%
Reserved															0	0	#DIV/0!
ALTERNATES																	
Caroline Ashleigh	P	P	P	NM	P	P									5	0	100%
Kristy Barrett							NA	A	A	P	A	P			2	3	40%
Reserved															0	0	#DIV/0!
Reserved															0	0	#DIV/0!
Present or Available	**7**	**6**	**6**	0	**7**	**6**	**4**	**5**	**6**	**7**	**5**	**7**	0	0			

KEY:
- **A = Member absent**
- **P = Member present or available**
- **CP = Member available, but meeting canceled for lack of quorum**
- **CA = Member not available and meeting was canceled for lack of quorum**
- **NA = Member not appointed at that time**
- **NM = No meeting scheduled that month**
- **CM = Meeting canceled for lack of business items**

Department Head Signature

CITY BOARD/COMMITTEE ATTENDANCE RECORD

Name of Board: Museum Board **Year:** 2022

Members Required for Quorum: 4

MEMBER NAME	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	SPEC MTG	SPEC MTG	Total Mtgs. Att.	Total Absent	Percent Attended Available
REGULAR MEMBERS																	
Marty Logue	P	P	P	P	P	P	NM	P	P	P	P	P			11	0	100%
Judith Keefer	P	P	A	P	P	A	NM	A	A	P	P	A			6	5	55%
Pat Hughes	P	A	P	P	A	A	NM	P	P	P	A	P			7	4	64%
Jay Shell	P	P	A	P	P	A	NM	P	P	P	P	A			8	3	73%
Bev Erickson	P	A	A	P	A	P	NM	A	P	P	P	P			7	4	64%
Kristy Barrett	NA	NA	NA	NA	P	P	NM	P	P	P	A	P			6	1	86%
Caitlin Rosso	A	A	P	A	P	A	NM	A	NA	NA	NA	NA	NA	NA	2	5	29%
Reserved															0	0	#DIV/0!
Reserved															0	0	#DIV/0!
ALTERNATES																	
Alexandra Harris	P	P	P	P	P	P									6	0	100%
Member 2															0	0	#DIV/0!
Reserved															0	0	#DIV/0!
Reserved															0	0	#DIV/0!
Present or Available	**6**	**4**	**4**	**6**	**6**	**4**	0	**4**	**5**	**6**	**4**	**4**	0	0			

KEY:
- **A = Member absent**
- **P = Member present or available**
- **CP = Member available, but meeting canceled for lack of quorum**
- **CA = Member not available and meeting was canceled for lack of quorum**
- **NA = Member not appointed at that time**
- **NM = No meeting scheduled that month**
- **CM = Meeting canceled for lack of business items**

Department Head Signature

ARTICLE II. - MUSEUM BOARD

Footnotes:
*--- (**2**) ---*
***Editor's note—** Ord. No. 2005, adopted January 25, 2010, amended article II in its entirety to read as herein set out. Formerly, article II pertained to the historical board, and derived from the Code of 1963, §§ 1.201—1.210, and Ord. No. 1719, adopted December 20, 1999.*
***Cross reference—** Boards and commissions, § 2-171 et seq.*

Sec. 62-26. - Establishment; composition.

(a) There is hereby established the museum board for the city which shall consist of seven members who shall serve without compensation. Six of the members shall be appointed by the city commission and shall be qualified city electors. One member shall be the owner of a business located in the city to be appointed by the city manager with the concurrence of the city commission (need not be a resident). A majority of the members of the museum board shall also be members of the Birmingham Historical Society.

(b) In addition to the seven members of the museum board, the city commission shall appoint one alternate member to serve a term of three years, who shall be a qualified city elector.

(Ord. No. 2005, 1-25-10; Ord. No. 2349, 7-20-20)

Sec. 62-27. - Terms of members.

Each member shall be appointed for a term of three years ending on the first Monday of July of the third year after appointment, or upon the appointment of his successor, whichever is later, except that in the first instance three of the members shall be appointed for a one-year term and two shall be appointed for two-year terms. Members of the museum board shall hold office at the pleasure of the city commission. Vacancies occurring other than through the expiration of term shall be filled for the unexpired term by the city commission.

(Ord. No. 2005, 1-25-10)

Sec. 62-28. - Organization.

The museum board shall elect a chairman from its membership annually at its first meeting after the first Monday of July. The city clerk shall be a nonvoting ex officio member of the museum board and shall serve as its secretary; and the city treasurer shall be a nonvoting ex officio member of the museum board and shall serve as its treasurer.

(Ord. No. 2005, 1-25-10)

Sec. 62-29. - Meetings.

The museum board shall hold at least one regular public meeting in each quarter on such date and at such time and place as may be established by resolution of the museum board. Special meetings may be called by the secretary on the written request of the chairman or any three members of the museum board on at least two days' notice. The museum board shall adopt such rules for the conduct of its business as it may from time to time adopt by resolution. The museum board shall keep a written or printed record of its proceedings which shall be a public record and property of the city.

(Ord. No. 2005, 1-25-10)

Sec. 62-30. - Expenditures.

The museum board shall have the power to expend such funds as may from time to time be appropriated to it by the city commission or otherwise received by it for the purpose of carrying out the powers and duties of the museum board. An account of all its receipts and expenditures shall be maintained which shall be a public record and property of the city.

(Ord. No. 2005, 1-25-10)

Sec. 62-31. - Powers and duties.

(a) Mission statement. The Birmingham Museum will explore meaningful connections with our past, in order to enrich our community and enhance its character and sustainability. Our mission is to promote understanding of Birmingham's historical and cultural legacy through preservation and interpretation of its ongoing story.

(b) In general, it shall be the duty of the museum board to:

(1) Collect, arrange, catalogue and preserve historical material including books, pamphlets, maps, charts, manuscripts, papers, records and archives, paintings, statuary and other objects and materials relating to the history of the city and the surrounding area;

(2) Procure and preserve narratives of the residents of such area;

(3) Collect material of every description relative to the history, and culture of our Oakland County Native American tribes;

(4) Collect, prepare and display objects indicative of the life, customs, dress and resources of the residents of this area; and

(5) Make available from time to time source materials and historical studies relative to and illustrative of the history of the area.

(c)

The museum board shall have the power, with the assistance of all city public officials, to collect from the public offices in the city reproductions of any records, files, documents, books and papers which, in the opinion of the museum board are of historical value.

(d) The museum board shall have the power to develop, operate and maintain the 1928 Allen House, 1822 John West Hunter House and John West Hunter Memorial Park, as part of the Birmingham Museum, as a museum and to serve as an advisory authority exercising control and management over this cultural resource.

(e) The museum board shall have the power to raise funds for the exercise of its powers and duties.

(Ord. No. 2005, 1-25-10; Ord. No. 2176, 3-14-16)

Sec. 62-32. - Executive director.

There shall be an executive director who shall be an employee of the city. The executive director shall, among other duties as established by the museum board, operate and manage the museum. The executive director shall report to the museum board and shall be appointed, removed and supervised by the city manager. The executive director shall attend all meetings of the museum board.

(Ord. No. 2005, 1-25-10)

Sec. 62-33. - Reports.

The museum board shall make and submit to the city commission annually a report of the general activities, operation, and condition of the Birmingham Museum for the preceding 12 months. The museum board shall, from time to time, as occasion requires, either in the annual report, or at any time deemed necessary by the museum board, advise the city commission in writing on all matters necessary and proper for and pertaining to the proper operation of the Birmingham Museum and any of its activities or properties.

(Ord. No. 2005, 1-25-10; Ord. No. 2176, 3-14-16)

Sec. 62-34. - Budget.

The executive director, on behalf of the museum board, will submit a complete itemized budget for the ensuing fiscal year to the city manager based on guidelines established in the city budgetary process.

(Ord. No. 2005, 1-25-10)

Sec. 62-35. - Protection of property.

No person shall take, use, or occupy any property under the control of the museum board except in accordance with such rules and regulations governing such as may from time to time be prescribed by the museum board.

(Ord. No. 2005, 1-25-10)

Secs. 62-36—62-55. - Reserved.

BIRMINGHAM
A WALKABLE CITY

NOTICE OF INTENTION TO APPOINT
HEARING OFFICER

At the regular meeting of Monday, July 8, 2024, the Birmingham City Commission intends to appoint an alternate hearing officer to serve a three-year term to expire June 30, 2027. The Hearing Officer shall be responsible for hearing disputes to a fee or bill that a property owner or resident of the City shall receive pursuant to the fee collection ordinances (section 1-17).

The hearing officer and alternate shall be residents of the City of Birmingham who have legal, administrative or other desirable qualifications that will aid him or her in the performance of the duties in accordance with provisions of the applicable code. The hearing officer and the alternate hearing office shall serve without compensation.

The hearing officer or alternate shall schedule periodic meetings for hearings as needed.

Interested citizens may submit an application available at the City Clerk's office on or before noon on Wednesday, July 3, 2024. These applications will appear in the public agenda for the regular meeting at which time the City Commission will discuss recommendations, and may make nominations and vote on the appointment.

Applicant(s) Presented For City Commission Consideration:

Applicant Name	**Criteria/Qualifications** Applicants shall be residents of the City who have legal, administrative or other desirable qualifications that will aid him or her in the performance of the duties of the hearing officer.
Alexander Simpson	Attorney with over 15 years of experience in research and analysis.

NOTE: All members of boards and commissions are subject to the provisions of City of Birmingham City Code Chapter 2, Article IX, Ethics and the filing of the Affidavit and Disclosure Statement.

SUGGESTED ACTION:

To appoint _____ as the alternate Hearing Officer to serve a three-year term to expire June 30, 2027.

BIRMINGHAM
A WALKABLE CITY

Mya Brown <mbrown@bhamgov.org>

FromClerksOffice- APPLICATION FOR CITY BOARD OR COMMITTEE [#14]

1 message

'Wufoo' via Clerks Office <ClerksOffice@bhamgov.org> Fri, Jun 21, 2024 at 3:15 PM
Reply-To: no-reply@wufoo.com
To: clerksOffice@bhamgov.org

Board/Committee of Interest	Alternate Hearing Officer
Name	Alexander Simpson
Residential Address	307 Westchester Way Birmingham, MI 48009 United States
Phone Number *	(313) 999-4866
Email **By providing your email to the City, you agree to receive news and notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.**	alexandsimp@gmail.com
Length of Residence	4 years
Occupation	Attorney
Reason for Interest: Explain how your background and skills will enhance the board to which you have applied.	I have over 15 years of experience in the legal services industry. I am an attorney that is skilled in legal research and analysis.
List your related employment experience	Major Law Firms (Bodman) Major Corporations (IHS, Meijer, Microsoft) Founder and Partner (Go with Canvas)
List your related community activities	Regent, Eastern Michigan University Past President, Wolverine Bar Association State Bar of Michigan Character and Fitness Committee
List your related educational experience	BS - Eastern Michigan University MSW - University of Michigan MBA - Kellogg School of Management at Northwestern University JD - Indiana University Maurer School of Law
To the best of your knowledge, do you or a member of your immediate family have any direct financial or business relationships with any supplier, service provider or contractor of the City of Birmingham from which you or they derive direct compensation or financial benefit? If yes, please explain.	No
Do you currently have a relative serving on the board/committee to which you have	No

applied?	
Are you an elector (registered voter) in the City of Birmingham? *	Yes

BIRMINGHAM
A WALKABLE CITY

HEARING OFFICER

Ordinance #2178, Adopted March 28, 2016
Term: 3 years
Appointed by the city commission

Qualifications: The hearing officer and alternate shall be residents of Birmingham who have legal, administrative, or other desirable qualifications that will aid him/her in the performance of their duties. The hearing officer and alternate shall serve without compensation and shall not be elected officials or persons appointed to elective office.

Duties: The hearing officer shall be responsible for hearing disputes to a fee or bill that a property owner or resident of the city shall receive pursuant to any of the fee collection ordinances of the code of the City of Birmingham that specifically relate to: returned check fees by real property owners (section 1-15), the removal of debris from a private property upon a public street, alley, sidewalk, or other public place or right-of-way (section 50-27), false alarms (section 74-31), snow removal (section 98-68), sidewalk repair fees (section 98-62), cross connection inspections (section 114-5), and weed cutting (section 118-68). The alternate hearing officer shall be responsible for hearing disputes in the absence of the hearing officer.

Last Name Home Address	First Name	Home Business E-Mail	Appointed	Term Expires
Lyng 644 Bird	**Larry**	(248) 346-1533 *larry.lyng@sbcglobal.net*	2/28/2022	6/30/2025
Hoff 941 Arden Lane	**Rackeline**	(248)219-5514 *rackyhoff@hotmail.com*	11/28/2022 Alternate	6/30/2024

Sec. 1-17. - Hearing officer for disputed fees.

(a) *Hearing officer.*

(1) The city commission shall appoint a hearing officer, who shall be responsible for hearing disputes to a fee or bill that a property owner or resident of the city shall receive pursuant to any of the fee collection ordinances of the Code of the city that specifically relate to: returned check fees by real property owners (section 1-15), the removal of debris from a private property upon a public street, alley, sidewalk, or other public place or right-of-way (section 50-27), false alarms (section 74-31), snow removal (section 98-68), sidewalk repair fees (section 98-62), cross connection inspections (section 114-5), and weed cutting (section 118-68).

The city commission shall also appoint an alternate hearing officer who shall be responsible for hearing such disputes in the hearing officer's absence.

(2) The hearing officer shall be appointed for a three-year term. The initial alternate hearing officer shall be appointed for a two-year term. Terms shall begin on July 1, 2004 and shall expire on June 30 of the respective years. Thereafter, terms shall be three years so that both terms do not expire on the same year. The hearing officer and alternate shall serve at the will of the commission. The hearing officer and alternate shall hold office until their successors are appointed. The city commission shall fill a vacancy by an appointment only.

(3) The hearing officer and alternate shall be residents of the city who have legal, administrative or other desirable qualifications that will aid him or her in the performance of the duties of the hearing officer.

a. The hearing officer and alternate shall serve without compensation, and shall not be elected officials, or persons appointed to elective office.

b. The hearing officer and alternate shall establish such procedures as deemed necessary or appropriate to perform the functions as set forth in this section.

(b) *Functions of the hearing officer.* When there is a question or a dispute as to the applicability of any invoice received by a property owner or resident of the city pursuant to any of the fee collection ordinances of this Code, as described in subsection 1-17(a)(1), to a particular situation, that question or dispute shall be directed to the hearing officer. It shall then be the function of the hearing officer to conduct a hearing and make a determination, as applicable.

The actual invoice shall notify the property owner or resident of his or her right to dispute all or any part of the bill as established in this section.

(1) Hearings. The hearing officer shall follow the following hearing procedure:

a. The hearing officer shall, upon receiving notice from the debtor that they are requesting a hearing within the time frames established by the appropriate fee collection ordinance,

arrange for a mutually convenient date to hear the dispute.

b. Any person requesting an appearance before the hearing officer to dispute a permissible invoice may request one extension that may be granted by the hearing officer only under extreme circumstances.

c. All hearings at which any person shall be requested to appear shall be subject to the Open Meetings Act.

d. All findings, including a finding of extreme circumstances of the hearing officer shall be published in permanent form and communicated to the city treasurer and other appropriate city staff, the debtor, and the city commission, subject to the requirements of the Open Meetings Act.

(2) The hearing officer shall determine as follows:

a. Determine whether there has been a violation by the debtor of one or more of the ordinances set forth in subsection (a)(1) of this section.

b. Determine whether the city has performed the work prescribed in the ordinances set forth in subsection (a)(1) of this section for which the debtor has been invoiced.

c. Determine whether the debtor was invoiced the proper amount for the work actually performed by the city.

d. Determine whether the fees should be waived due to the existence of "extreme circumstances". By way of example, "extreme circumstances" may include, but are not limited to, the following examples: an unexpected death of a member of the household or a member of the households' family resulting in all members of the household becoming unavailable to perform the obligation of the ordinances set forth in subsection (a)(1) of this section; a sudden illness or injury resulting in all members of the household becoming unavailable to perform the obligation of the ordinances set forth in subsection (a)(1) of this section; natural disasters declared by federal, state or local authorities resulting in circumstances rendering performance of the obligations of the ordinances set forth in subsection (a)(1) of this section impracticable or in direct contradiction of said declaration; emergencies declared by federal, state or local authorities resulting in circumstances rendering performance of the obligations of the ordinances set forth in subsection (a)(1) of this section impracticable or in direct contradiction of said declaration; and, police, fire or other local circumstances, when authorized by the police chief, fire chief or the city manager or his designee resulting in circumstances rendering performance of the obligations of the ordinances set forth in subsection (a)(1) of this section impracticable or in direct contradiction of said authorization.

(Ord. No. 2178, 3-28-16)

Editor's note— Prior to the reenactment of section 1-17 by Ord. No. 2178, adopted March 28, 2016, Ord. No. 2077, adopted January 23, 2012, repealed the former section 1-17 in its entirety, which pertained to hearing officer for disputed fees and derived from Ord. No. 1823, § 1, adopted April 19, 2004, and Ord. No. 1970, adopted September 8, 2008.

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Birmingham City Commission-Planning Board Minutes
June 10, 2024
Baldwin Public Library – Rotary Room
300 W. Merrill
7:30 p.m.
Vimeo Link: https://vimeo.com/967258500

I. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Mayor Elaine McLain called the meeting to order at 7:30 p.m.

II. ROLL CALL

Commission

ROLL CALL:	Present:	Mayor McLain
		Mayor Pro Tem Schafer
		Commissioner Baller
		Commissioner Haig
		Commissioner Host
		Commissioner Long
		Commissioner Longe
	Absent:	None

Planning Board

ROLL CALL:	Present:	Chair Scott Clein
		Robin Boyle
		Bert Koseck
		Daniel Share
		Janelle Whipple-Boyce
		Bryan Williams
		Jason Emerine, alternate
	Absent:	Stuart Jeffares
		Nasseem Ramin, alternate

Staff: City Manager Ecker; City Clerk Bingham, Senior Planner Cowan, Planning Director Dupuis, City Attorney Kucharek

III. PUBLIC COMMENT

The City of Birmingham welcomes public comment limited at the Mayor's discretion to allow for an efficient meeting. The Commission will not participate in a question and answer session and will take no action on any item not appearing on the posted agenda. The public can also speak to agenda items as they occur when the presiding officer opens the floor to the public. When recognized by the presiding officer, state your name for the record, and direct all comments or questions to the presiding officer.

IV. DISCUSSION TOPICS

A. The Birmingham Plan 2040 - Prioritization of Key Actions

PD Dupuis presented the item and answered informational questions.

Commissioner and Planning Board member discussion of the item was as follows:

- This document represents the Planning Board's efforts to begin implementation of the 2040 Plan. The Planning Board views its role as an operational point for the process. The Planning Board aims to meet with other boards and committees in order to encourage collaboration between boards and to support the 2040 Plan's implementation.
- Some of the items on the list will require further study in order to determine whether their implementation will be appropriate. The process of implementing the 2040 Plan will occur over an extended period.
- Changes to the zoning ordinance are a priority. All zoning ordinance changes recommended by the Planning Board will first undergo study.
- Parking appeared on the Commission's priority list and not the Planning Board's because the overall direction of parking policy is within the Commission's purview. The Commission could, however, direct the Planning Board to explore potential changes to the City's parking.
- On-street and off-street parking policies should likely be Commission-driven.
- Issues regarding Woodward remain a significant priority for many residents.
- The Planning Board would be seeking guidance from the Commission on a number of items on the list, with an emphasis on the policy-driven items. Some of those items could also be resolved by the Commission directly if preferred.
- In order to guide some of these planning decisions, the Commission will need education regarding the relevant topics.
- The Planning Board and the City administration may be able to provide the Commission with some of the requisite education.
- The Planning Board's process of organizing and prioritizing the action items evolved organically, since this is how governing bodies usually begin the implementation of master and strategic plans.
- The prioritization list was well done and would serve as a very helpful guide for future discussion and review.
- The pie chart in the staff presentation indicated that Woodward and parking were addressed more often in the 2040 Plan than street improvements. The Commission has been focusing heavily on street improvements as of late. The difference between the priorities of the 2040 Plan and the Commission's efforts was of note.
- It would be helpful to designate which items on each list could be easier or more quick to resolve.
- All items on multiple boards' priority lists were ranked in the same order of priority. This was done to ensure that those topics would be addressed by all relevant boards in concert and contemporaneously. Each board should receive information on how working on shared items would work.
- The Commission should encourage the other boards to undertake the work on their priority lists.
- The Planning Board's work on this list deserved commendation, and the idea of collaborating with other boards on a number of items was excellent.
- Any topics relating to the public parking system should likely receive review from the Advisory Parking Committee.

- It could be helpful for the Advisory Parking Committee to perform a review of the present on-street parking restrictions and to provide their recommendations for simplifying those restrictions. It might be appropriate for a consultant to be involved in that process.

There was a consensus by the Commission that the Planning Board had appropriately organized and prioritized the key actions included in the 2040 Plan, and that the Commission should create a future agenda item in order to direct the related boards and Commissions to commence work on the associated key actions.

Public Comment
Larry Ling complimented the 2040 Plan in general and opposed potential future zoning changes to Bird Avenue.

B. Woodward Avenue

PD Dupuis presented the item and staff answered informational questions.

Commissioner and Planning Board member discussion of the item was as follows:

- Addressing Woodward Avenue would be an extensive process that will require consultants, lobbying, and other approaches.
- Better integrating Woodward into the City and mitigating some of its negative impacts is a priority.
- Technology and AI is helping improve the experience of Woodward.
- The reduction of noise and pedestrian crossings on Woodward are more critical items. The south Woodward gateway between Lincoln and 14 Mile will take a longer time to address because it involves private property.
- Implementing the recommended changes to the south Woodward gateway between Lincoln and 14 Mile could result in long-term improvements to that area.
- It would be helpful to hear whether the Commission is interested in addressing the Woodward-related action items in the list.
- Creative solutions to the issues facing Birmingham vis-a-vis Woodward would be welcome.
- Adding more frequent crosswalks along Woodward could be beneficial.
- Persuading MDOT to permit the reduction of speeds, a road diet, and improved crosswalk timing would significantly improve the Birmingham Woodward experience. This, and reducing the noise impact of Woodward, are top priorities.
- The impact of traffic volumes and potential bottlenecks in Birmingham would need to be considered.
- While Woodward must remain a high priority, it should be addressed at the same time as zoning since many of the potential changes to Woodward are within MDOT's discretion and not the City's.
- The Planning Board should recommend ways of improving the south end of Woodward.

Public Comment
Mr. Ling supported addressing noise and speeds on Woodward.

C. Public Project Review Process

PD Dupuis presented the item and staff answered informational questions.

Commissioner and Planning Board member discussion of the item was as follows:

- There has been Planning Board frustration that public projects are not reviewed similarly to private projects.
- The Commission's fiduciary responsibility and the City's desire for excellence in projects sometimes conflicts.
- The City could benefit from Planning Board feedback on public projects.
- It is odd that the City imposes a number of standards on private projects that it does not impose on public projects.
- It may be appropriate for the public project process to have a point early on where the Planning Board provides comment on the project, even if those comments are initially advisory in capacity. Those projects should also be brought to the Planning Board for review at the pre-application stage and at the final design stage.
- The zoning ordinance does not grant the Planning Board authority to conduct a site plan and design review on a public project. In addition, there are no development standards for a public project. It may be appropriate to add provisions for the Planning Board's review of public projects.
- The review process for public projects could also stand to be more robust and transparent.
- The review process for public process could cause more work for the Planning Board.
- The earlier in the process the Planning Board can be involved, the more likely there is to be a positive outcome. The Planning Board could even provide input on the RFP process.
- While the Commission must be cognizant of public finances, many public projects have required further revisions which increases the costs of projects as well. The Planning Board's early review could reduce the likelihood of that occurring.
- It would be most beneficial for the public project and the private project review processes to be the same. This would not likely have an outsized impact on the Planning Board's workload, since larger public projects occur relatively infrequently.
- The changes to the zoning ordinance that would allow for public review by the Planning Board could be implemented as part of the broader zoning ordinance process. It could also be written in such a way that the process would comply with the necessities of the RFP process.
- The City Attorney should be involved in the process of changing the public review process from the outset.
- Whenever working with a public-private partnership model, it would be helpful to have staff or consultants educated and equipped to provide guidance on how those partnerships work.
- It might be appropriate for the City to include all potential future capital improvement projects, including significant public projects, in its long range planning processes.

There was a consensus that the Commission wanted to require a formal, thorough site plan and design review for public development projects, that the Planning Board should be involved, and that the Commission wants to develop a guide based on the recommendations of the 2040 plan outlining a set of standards for the review of public projects.

It was noted that other boards and committees would sometimes be involved in the public review process as well.

V. COMMUNICATIONS

VI. ADJOURN

The Commission motioned to adjourn at 9:42 p.m.

Alexandria Bingham, City Clerk

Laura Eichenhorn, City Transcriptionist

Birmingham City Commission Minutes
June 24, 2024
Municipal Building, 151 Martin
7:30 p.m.
Vimeo Link: https://vimeo.com/967258500

I. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Elaine McLain, Mayor, opened the meeting with the Pledge of Allegiance.

II. ROLL CALL

City Clerk Bingham called the roll.

Present: Mayor McLain
Commissioner Baller
Commissioner Haig
Commissioner Host
Commissioner Long
Commissioner Longe

Absent: MPT Schafer

Staff: City Manager Ecker; City Clerk Bingham, Assistant City Manager Clemence, City Engineer Coatta, Planning Director Dupuis, Assistant City Manager Fairbairn, Parking Systems Manager Ford, Police Chief Grewe, Deputy Treasurer Katz, City Attorney Kucharek, Fire Marshall Scaife, Department of Public Services Director Zielinski

06-460-24 Temporary Mayor Pro Tem

MOTION: Nomination by Commissioner Baller:
To nominate Commissioner Longe to serve as the temporary Mayor Pro Tem.

VOICE VOTE: Ayes, Commissioner Baller
Commissioner Longe
Commissioner Haig
Commissioner Host
Mayor McLain
Commissioner Long

Nays, None

III. PROCLAMATIONS, CONGRATULATORY RESOLUTIONS, AWARDS, APPOINTMENTS, RESIGNATIONS AND CONFIRMATIONS, ADMINISTRATION OF OATHS, INTRODUCTION OF

DRAFT

GUESTS AND ANNOUNCEMENTS

Appointments

06-461-24 Historic District Study Committee

Jake German was unavailable for an interview. The Mayor noted this would be a reappointment and asked the Commission if they were willing to proceed.

MOTION: Nomination by Commissioner Haig:
To appoint Jake German as a regular member to the Historic District Study Committee to serve a three-year term to expire June 25, 2027.

VOICE VOTE: Ayes, Commissioner Baller
tMPT Longe
Commissioner Haig
Commissioner Host
Mayor McLain
Commissioner Long

Nays, None

IV. OPEN TO THE PUBLIC FOR MATTERS NOT ON THE AGENDA

Diane Anderson commented regarding some sidewalk maintenance issues on Southfield Road and Martin Street.

Steven Torrack commented regarding a petition supporting the replanting of trees along Westwood Drive.

V. CONSENT AGENDA

06-462-24 Consent Agenda

MOTION: Motion by tMPT Longe, seconded by Commissioner Long:
To approve the Consent Agenda omitting Items E, L, and U.

ROLL CALL VOTE: Ayes, Commissioner Baller
tMPT Longe
Commissioner Haig
Commissioner Host
Mayor McLain
Commissioner Long

Nays, None

A. Resolution to approve the regular City Commission meeting minutes of the meeting held on June 3, 2024.

DRAFT

B. Resolution to approve the warrant list, including Automated Clearing House payments, dated June 6, 2024 in the amount of $816,859.66.

C. Resolution to approve the warrant list, including Automated Clearing House payments, dated June 13, 2024 in the amount of $1,527,578.31.

D. Resolution to approve the warrant list, including Automated Clearing House payments, dated June 20, 2024 in the amount of $1,627,287.13.

F. Resolution appointing election inspectors, absentee voter counting board inspectors, receiving board inspectors and other election officials as recommended by the City Clerk for the August 6, 2024 State Primary Election pursuant to MCL 168.674, and further grant the City Clerk the authority to make emergency appointments of qualified candidates should circumstances warrant in order to maintain adequate staffing in the various precincts, counting boards and receiving boards.

AND

To authorize the use of an Absent Voter Counting Board for the City of Birmingham pursuant to MCL 168.765a(1) as the City Commission has previously resolved on May 6, 2024, resolution 05-418-24.

AND

To authorize the use of the Oakland County Absent Voter Counting Board for the purpose of processing and tabulating absent voter ballots on August 6, 2024, as prescribed in the terms and responsibilities previously agreed upon at the July 12, 2020 meeting by Commission resolution 07-120-20.

G. Resolution designating Finance Director Mark Gerber, Assistant Finance Director Kim Wickenheiser, DPS Director Scott Zielinski, Building Official Bruce Johnson, Assistant Building Official Mike Morad, Museum Director Leslie Pielack, and Police Commander Ryan Kearney as proxy representatives of Election Commissioners Mayor Elaine McLain, Mayor Pro Tem Katie Schafer, Commissioner Clinton Baller, Commissioner Brad Host, Commissioner Andrew Haig, Commissioner Anthony Long, and Commissioner Therese Longe, to conduct the Public Accuracy Test on Tuesday, July 9, 2024 at 8:45 a.m. in room 205 to test the electronic tabulating equipment which will be used to count votes at Birmingham precincts during the August 6, 2024 State Primary Election.

H. Resolution to amend the 2024 Schedule of Fees, Charges, Bonds and Insurance to include late fees for One Day Valet applications submitted with less than 72 hours' notice from the desired day of valet services.

I. Resolution adopting the following amendment to the budget appropriations resolution and establishing the number of mills for ad valorem property taxes to be levied for Senior Services for the fiscal year commencing July 1, 2024 and ending June 30, 2025.

BE IT FURTHER RESOLVED that the City Commission does hereby designate $1,134,510 to be raised by 0.3279 mills levied on the taxable valuation of all real and personal property subject to taxation in the City for the purpose of providing senior services within the City as authorized by MCL 401.571, et seq.

J. Resolution to set a public hearing date of July 22, 2024 to consider the lot combination of 1114 & 1110 Lakeside Drive, parcels 19-25-151-069 & 19-25-151-070.

K. Resolution to set a public hearing date of July 22, 2024 to consider ordinance amendments to Chapter 86 (Signs), Article 1, Table B, Table D, Section 1.08 and Section 1.09 to transition the language from "Church" to "Religious Institutions" and to adjust the standards for maximum area, maximum height, illumination and maximum number of signs permitted.

M. Resolution to approve the purchase of a 2024 Ford F-350 Regular Cab 4X4, located at 1960 E Main St, Owosso, MI 48867, through the State of Michigan Contract #071B770180 and Macomb County Contract #21-18, in an amount not to exceed $84,023.00, upon the completion of a signed contract by Lunghamer Ford of Owosso. In addition, to authorize the Mayor and City Clerk to sign the agreement on behalf of the City. Funds for this purchase are available in the FY 2023-2024 Auto Equipment Fund account #661.0-441.006.971.0100.

N. Resolution to approve the purchase of a Wolverine Freightliner, Single Axle, located at 107 S. Groesbeck, Mt. Clemens, MI 48043, per the Rochester Hills Co-op RFPRH- 20-023 contract, in an amount not to exceed $247,617.00, upon the completion of a signed contract by Wolverine Freightliner. In addition, to authorize the Mayor and City Clerk to sign the agreement on behalf of the City. Funds for this purchase are available in the FY 2024-2025 Auto Equipment Fund account #661.0-441.006.971.0100.

O. Resolution to approve the purchase of a Wolverine Freightliner, Tandem Axle, located at 107 S. Groesbeck, Mt. Clemens, MI 48043, per the Rochester Hills Co-op RFPRH- 20-023 contract, in an amount not to exceed $257,772.00, upon the completion of a signed contract by Wolverine Freightliner. In addition, to authorize the Mayor and City Clerk to sign the agreement on behalf of the City. Funds for this purchase are available in the FY 2023-2024 Auto Equipment Fund account #661.0-441.006.971.0100.

P. Resolution to set the Public Hearing of the Necessity of the replacement and improvements of sewer and water laterals meeting the requirements of assessments, for all properties within the project area on Oakland Avenue, between North Old Woodward Avenue to Woodward Avenue on Monday, July 22, 2024, at 7:30 P.M.; and

If necessity is determined on July 22, 2024, to meet on Monday, August 12, 2024, at 7:30 P.M., for all the purpose of conducting the Public Hearing to Confirm the Assessment Roll for the replacement and improvements of sewer and water lateral meeting the requirements for assessment, for all properties within the project on Oakland Avenue, between North Old Woodward Avenue to Woodward Avenue.

Q. Resolution to approve the Road Safety Audit Agreement between the Southeast Michigan Council of Governments (SEMCOG) and the City of Birmingham. In addition, authorize the

Mayor to sign the agreement on behalf of the City. Funding for this has been budgeted in account 202.0-449.001-811.0000.

R. Resolution to approve the Local Road Improvement Matching Fund Program Cost Participation Agreement between Oakland County and the City of Birmingham. In addition, authorize the Mayor to sign the agreement on behalf of the City. Funding for this project has been budgeted in accounts 202.0-449.001-981.0100, 590.0-537.000-981.0100, and 591.0-544.000-981.0100.

S. Resolution to approve a new contract for a Multi-Modal Transportation Consultant Contract for Fleis & Vanderbrink to provide as-requested professional services related to multi-modal transportation review and support for the Multi-Modal Transportation Board. In addition, to authorize the Mayor and the City Clerk to sign the agreement on behalf of the City contingent upon execution of the agreement and meeting all insurance requirements.

T. Resolution to approve an agreement for OHM Advisors to provide as-requested professional services including, but not limited to, construction engineering and administration services, for a three (3) year term. In addition, to authorize the Mayor and the City Clerk to sign the agreement on behalf of the City contingent upon execution of the agreement and meeting all insurance requirements.

06-463-24 Birmingham City Commission 2025 Meeting Schedule (Item E)

Commissioner Baller pulled Item E from the Consent Agenda and staff answered an informational question.

MOTION: Motion by Commissioner Baller, seconded by Commissioner Long:
To approve the Birmingham City Commission 2025 Meeting Schedule as submitted.

ROLL CALL VOTE: Ayes, tMPT Longe
Commissioner Long
Commissioner Haig
Commissioner Baller
Commissioner Host
Mayor McLain

Nays, None

06-464-24 Contract with Thielen Turf Irrigation, Inc. for Springdale Golf Course (Item L)

Commissioner Baller pulled Item L from the Consent Agenda. Staff answered informational questions from the Commission.

Commissioner comment on the item was as follows:

- An expenditure of this size should be presented by staff, rather than being placed on the Consent Agenda.
- A high-level review of the golf courses by staff would be appropriate. The review

should include sustainability considerations, other potential uses, the history of the golf courses, information on the user base of the golf courses, and the financials of the golf courses. The review should be followed by a discussion of Commission's policy goals for the golf courses.

- In an instance where the golf courses require improvements that cannot be covered by the enterprise fund, a loan is taken from the City's general fund and then is paid back over time. All improvements to the golf courses are ultimately funded through golf course revenue.
- The pump house should be designed and located in a way that damage would not occur in the event of flooding.
- It would be appropriate to consider adding a sign for Springdale Golf Course to the Big Beaver frontage.
- It might be useful to review how much the City charges for a round of golf.
- In order to continue providing the expected golfing experience at Springdale, the requested repairs are necessary.
- The need for these repairs was known a number of years ago. At that time, there was no appetite to undertake the repairs because the golf courses were not operating in the black.
- Delaying these repairs could have a negative financial outcome.

MOTION: Motion by Commissioner Host, seconded by Commissioner Haig:
To approve a contract with Thielen Turf Irrigation, Inc. in an amount not to exceed $1,263,770 to relocate the Springdale Golf Course pump station, and to install a new irrigation system. In addition, to authorize the Mayor and City Clerk to sign the agreement on behalf of the City.

AND

To approve the appropriation and amendment of the fiscal year 2024/2025 budget for Springdale Golf Course and construction costs as follows:

Revenues:		
584.2-000.000-400.00	Draw from Fund Balance	$393,770
Total Revenue		$393,770
Expenditures:		
584.2-753.001-981.0100	Public Improvement Fund	$393,770
Total Expenses		$393,770

Individual Commissioner comment on the motion was as follows:

- It would be useful to have more information on this request before voting on it. It might be more appropriate to delay the request for a month or two in order to receive more information and to have a discussion.
- Opposition to the motion was stated.

Public Comment
Staff answered an informational question from Kent Johnston.

David Mendelson supported the continued maintenance and operation of both golf courses.

ROLL CALL VOTE: Ayes, tMPT Longe
Commissioner Long
Commissioner Haig
Commissioner Host

Nays, Mayor McLain
Commissioner Baller

06-465-24 Traffic Signal Modification Project #13-24 (Item U)

Commissioner Haig pulled Item U from the Consent Agenda and staff answered an informational question.

MOTION: Motion by Commissioner Haig, seconded by tMPT Longe:
To award the Traffic Signal Modification Project #13-24 (T) to Dan's Excavating in the amount of $1,398,949.00 plus a 10% construction contingency for a total of $1,538,343.40. In addition, to authorize the Mayor and the Clerk to sign the agreement on behalf of the City contingent upon execution of the agreement and meeting all insurance and bond requirements by Dan's Excavating. Funding for this project has been budgeted in the following account for the following years:

Major Street Traffic Control Fund - 202.0-316.000-971.0100

Fiscal Year	Budget Amount	Budget Request
FY 2023/2024	$660,700.00	$660,700.00
FY 2024/2025	$300,000.00	$300,000.00
FY 2025/2026	$0.00	$741,550.00
Total	$960,700.00	$1,702,250.00

AND

To approve the appropriation and amendment of the fiscal year 2025/2026 budget for construction cost, which includes Dan's Excavating's bid of $1,398,949.00 and 10% construction contingency, and engineering costs as follows:

Major Street Fund:
Revenues:

202.0-000.000-400.0000	Draw from Fund Balance	$741,550
Total Revenue		$741,550

Expenditures:
202.0-316.000-971.0100 Traffic Control
$741,550

Total Expenses
$741,550

ROLL CALL VOTE: Ayes, tMPT Longe
Commissioner Long
Commissioner Haig
Commissioner Baller
Commissioner Host
Mayor McLain

Nays, None

VI. CITY MANAGER'S REPORT

CM Ecker presented the report. Staff answered informational questions from the Commission.

VII. UNFINISHED BUSINESS

06-466-24 2024 Chester St. Parking Garage Repair Project

PSM Ford introduced the item. Sarah Rush, engineer from WJE, and PSM Ford presented the item and answered informational questions from the Commission.

Commissioner comment on the item was as follows:

- The uplighting at N. Old Woodward was attractive. Illuminart is well-known and could provide other lighting options. It might not be necessary to hire an interior designer for the decks. It is possible that design decisions could be made for Chester based off the City's wayfinding and branding designs and future lighting recommendations from Illuminart.
- The structural and safety updates to the decks are necessary.
- Considering the aesthetic environment as well as the functions of the decks is important.

MOTION: Motion by Commissioner Long, seconded by Commissioner Haig:
To award a contract to RAM Construction for the proposed work at the Chester St. Parking Garage, excluding lighting, in the amount of $4,938,259.00; to charge this expense to account number 514.1-594.008-977.000; to authorize the Mayor and City Clerk to sign the contract on behalf of the City; and further to appropriate and amend the 2024-2025 Automobile Parking System Fund budget as follows:

Revenues		
514.1-000.000-400.0000	Draw from Net Position	$462,159

Expenses		
514.1-594.008-977.0000	Buildings	$462,159

Individual Commissioner comment on the motion was as follows:

- There was support for the motion.

- There was a lack of support for the motion, resulting from concerns about a lack of familiarity with the previous work of City's internal design staff.
- There was a lack of support for the motion if it included relying on the City's internal design professional. Continuing to work with Illuminart, the City's Wayfinding and Branding Committee, and the architects at WJE would be appropriate.
- Relying on the City's internal design staff for a proposal could be appropriate because any proposal from Illuminart and the City's staff would be reviewed by the Commission before any implementation would occur. Additionally, if the proposal was not approved by the Commission, other options could be considered at that time.

Public Comment
Patricia Batey commented on the aesthetic impacts of the garages on the overall experience of the cityscape.

Jim Arpin commented that WJE has architects on staff.

Victor Saroki commented regarding the design considerations for the garages.

Darko Banfic, principal at Illuminart, commented on the project.

ROLL CALL VOTE: Ayes, tMPT Longe
Commissioner Long
Commissioner Haig
Commissioner Baller
Commissioner Host
Mayor McLain

Nays, None

06-467-24 RFP for the Chester St. Parking Garage Architectural Services

MOTION: Motion by Commissioner Baller, seconded by Commissioner Long:
To recommend City staff create an RFP for an architect to work on the Chester St. Parking Garage.

Commissioner discussion of the motion was as follows:
- Since the previous motion authorized work on the structural aspects of the Chester St. Garage, this motion could help the City find a way forward in terms of design decisions for the garages as well.
- While the benefits of an architect were clear, hiring an architect was not a previously planned expenditure and there was no proposed budget for this aspect of the project.

Staff and the WJE team answered informational questions from the Commission.

ROLL CALL VOTE: Ayes, tMPT Longe
Commissioner Long
Commissioner Baller
Mayor McLain

Nays, Commissioner Haig
Commissioner Host

06-468-24 2024 Chester St. Garage Repair – Construction Period Services

PSM Ford and Ms. Rush presented the item.

MOTION: Motion by Commissioner Host, seconded by Commissioner Long:
To award the contract to Wiss, Janney, Elstner Associates, Inc. for construction period services in an amount of $465,000; further, to charge this expense to account number 514.1-594.008-977.000; to authorize the Mayor and City Clerk to sign the contract on behalf of the City; and further to appropriate and amend the 2024-2025 Automobile Parking System Fund budget as follows:

Revenues		
514.1-000.000-400.0000	Draw from Net Position	$288,000
Expenses		
514.1-594.008-977.0000	Buildings	$288,000

Commissioner comment on the motion was as follows:
- PSM Ford and WJE deserved thanks for their work on this project.

ROLL CALL VOTE: Ayes, Commissioner Haig
Commissioner Host
tMPT Longe
Commissioner Long
Commissioner Baller
Mayor McLain

Nays, None

VIII. NEW BUSINESS

06-469-24 Public Hearing of Necessity - Arlington, Shirley, and Brandon Street Project, Contract #6-24(W) Hearing of Necessity for Sewer and Water Lateral Special Assessment District (SAD)

Commissioner Baller's recusal was noted and he left the room at 10:50 p.m. The Mayor opened the public hearing at 10:50 p.m.

CM Ecker addressed some public discourse that had occurred regarding the item, and CE Coatta presented the item.

Public Comment
Jim Mirro commented regarding sustainability, assessments, and a petition from some residents.

Staff answered informational questions from Tony Trease, 905 Shirley. Mr. Trease protested the special assessment in order to preserve his right to appeal.

Staff answered informational questions from Sarah Winkler, 1000 Shirley. Ms. Winkler said she was registering a protest on behalf of the trees.

The Mayor answered an informational question from Patricia Batey.

Staff answered informational questions from Niharika Ramdev, 280 Arlington. Ms. Ramdev commented regarding the project's potential impact on landscaping and sprinkler systems. She said she was protesting to preserve her optionality.

Seeing no additional public comment, the Mayor closed the public hearing at 11:42 p.m.

Commissioner comment on the item was as follows:

- In previous Commission discussions, a Commissioner had indicated that some residents of Westwood were unhappy with the results of Westwood's cape-sealing. More recently, two residents of Westwood stated that they were indeed satisfied with the results of Westwood's cape-sealing.
- This project was appropriate because the 100-year-old sewer needed to be replaced.

MOTION: Motion by Commissioner Long, seconded by Commissioner Host:
WHEREAS, Notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property and lots to be assessed, by first class mail, and by publication in a newspaper generally circulated in the City; and

WHEREAS, The City Commission has conducted a public hearing and has determined it is necessary to proceed with the project replacing sewer services 50 years of age or older or constructed of material that is not acceptable for City standards and replacing water services that are 60 years or older or less than 1 inch in diameter on Arlington Street from Lincoln Road to Maple Road, and Shirley Road from Lincoln Road to Maple Road; and

WHEREAS, The City has previously established a policy requiring replacement of sewer services 50 years of age or older or constructed of materials that is not acceptable for City standards and water services less than 1 inch in diameter and the City street is open for repairs or reconstruction; and

WHEREAS, The City Commission, after the public hearing, has determined that Arlington, Shirley, and Brandon Project, the replacement of sewer services that are 50 years of age or older or of material that is not acceptable for City standards, the replacement of water services that are 60 years or older or less than 1 inch in diameter, is a necessity and is in the best interest of the City; and

WHEREAS, The Commission has approved the detailed plans and estimates of cost prepared by the City Engineer; and

WHEREAS, Formal bids have been received and the actual cost of sewer service and water service replacement has been determined; and

WHEREAS, The City Engineer has determined the boundaries of sewer service lateral and water service laterals located within the limits of the following streets shall be installed as part of the Arlington, Shirley, and Brandon Project (Contract #6-24(W)):

Arlington Street – Lincoln Street to Maple Road; and
Shirley Road – Lincoln Road to Maple Road

WHEREAS, The formula used in making the assessment is 100% of the contractor's charge for replacing the lateral service that is 50 years of age or older or constructed of materials that are not acceptable and water service that is 60 years of age or older or less than 1 inch in diameter within the public right-of-way between the utility and the property line (calculated at the rate of $200.00 per foot of 6" diameter sewer service pipe, $250.00 per foot of 8" diameter sewer service pipe, $70.00 per foot of 1-inch water service pipe, $75.00 per foot of 1.5-inch water service pipe, and $90.00 per foot of 2-inch water service pipe).

THEREFORE, LET IT BE RESOLVED, The City Commission has determined that the scope of the public improvement as described is in the best interest of the City and will benefit the properties listed in the assessment roll and is a necessity, and the City Commission directs the Manager to prepare a Special Assessment Roll and present the same to the City Commission for confirmation and further set a Public Hearing of Confirmation on July 8, 2024 and give notice of same.

The sidwell numbers and street addresses are located on pages four and five of Item 8A of tonight's agenda packet, including the cost of each assessment.

Staff answered informational questions from the Commission.

Individual Commissioner comment was as follows:

- There was support for the motion. There was a recent article about the Sterling Heights canopy.
- This portion of the project was necessary.
- Some sitting Commissioners have had to pay for similar improvements at their present or former residences. The City aims to preserve as many trees as possible in these projects. Having to replace any potentially disturbed sprinkler systems is not always an onerous process.

ROLL CALL VOTE: Ayes, Commissioner Haig
Commissioner Host
tMPT Longe
Commissioner Long
Mayor McLain

Nays, None

DRAFT

06-470-24 Public Hearing of Necessity - Arlington, Shirley, and Brandon Street Project, Contract #6-24(W) Hearing of Necessity for Paving Special Assessment District (SAD)

Commissioner Baller's recusal continued for this item. The Mayor opened the public hearing at 11:54 p.m.

CE Coatta presented the item.

Public Comment

Staff answered informational questions from Dr. Mendelson. Dr. Mendelson thanked staff and the Commission.

Mr. Mirro commented regarding a potential exemption process for certain driveway surfaces.

Mr. Trease, 905 Shirley, commented that he was preserving his option to file a special assessment appeal with the Michigan Tax Tribunal by protesting the paving special assessment district.

Ms. Ramdev, 280 Arlington, commented that she was preserving her optionality by protesting the paving special assessment district.

Clinton Baller commented regarding the procedural appropriateness of him speaking as a member of the project area at this juncture. He stated that he was strictly speaking on his own behalf. He commented regarding the project's process, and supported seeking a landscape architect's recommendations for the project.

Seeing no additional public comment, the Mayor closed the public hearing at 12:18 a.m.

MOTION: Motion by Commissioner Long, seconded by MPT Longe:
WHEREAS, Notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property and lots to be assessed, by first class mail, and by publication in a newspaper generally circulated in the City; and

WHEREAS, The City Commission has conducted a public hearing and has determined it is necessary to proceed with the project paving on Arlington Street from Lincoln Road to Maple Road, Shirley Road from Lincoln Road to Maple Road, and Brandon Street to Arlington Street and Shirley Street; and

WHEREAS, The City has previously established a policy requiring converting an unimproved road to an improved road; and

WHEREAS, The City Commission, after the public hearing, has determined that paving Arlington Street from Lincoln Road to Maple Road, Shirley Road from Lincoln Road to Maple Road, and Brandon Street to Arlington Street and Shirley Street, is a necessity and is in the best interest

of the City and will specially benefit the properties included in the Special Assessment District; and

WHEREAS, The Commission has approved the detailed plans and estimates of cost prepared by the City Engineer; and

WHEREAS, Formal bids have been received and the actual cost of paving has been determined; and

WHEREAS, The City Engineer has determined the boundaries of paving located within the limits of the following streets shall be installed as part of the Arlington, Shirley, and Brandon Project (Contract #6-24(W)):

Arlington Street – Lincoln Street to Maple Road; and
Shirley Road – Lincoln Road to Maple Road; and
Brandon Street – Arlington Street and Shirley Street

WHEREAS, The formula used in making the assessment for paving is 85% of the front-foot costs are assessed on all properties fronting on the improvement. The City pays 15% of the cost and for single-family houses, if the longer side of a corner property faces the street being constructed, the City will pay two-thirds (2/3) of the cost of the assessment for that property. The property owner will be charged the remaining third (1/3). If the short side of a corner property faces the street to be constructed, the owner pays 100% of the assessment, and for approaches is 100% of the contractor's charge for replacing the approach with concrete within the public right-of-way between the proposed curb and the property line (calculated at the rate of $156.84 per front footage for paving, $4.00 per square foot to remove and salvage brick pavers, $105.00 per square yard for remove concrete approach and install concrete approach, and $100.00 per square yard to remove asphalt approach and install concrete approach).

THEREFORE LET IT BE RESOLVED, The City Commission has determined that the scope of the public improvement as described is in the best interest of the City and will benefit the properties listed in the assessment roll is a necessity, and the City Commission directs the Manager to prepare a Special Assessment Roll and present the same to the City Commission for confirmation and further set a Public Hearing of Confirmation on July 8, 2024 and give notice of same, and the sidwell numbers, street addresses, and total paving costs are set forth on pages four, five, and six of 8B of tonight's packet.

Staff answered informational questions from the Commission.

Individual Commissioner comment was as follows:

- Given some residents' opposition to this aspect of the project, there was opposition to the motion.
- More information about Commissioner Baller's recusal and speaking as a member of the public was provided.
- This is the right decision for the health, safety, and welfare of this community. This

decision would represent a compromise of a number of perspectives.

ROLL CALL VOTE: Ayes, Commissioner Haig
tMPT Longe
Commissioner Long
Mayor McLain

Nays, Commissioner Host

06-471-24 370 E. Brown Construction Staging and Construction Coordination Agreement

Commissioner Baller rejoined the meeting at 12:34 a.m.

CE Coatta presented the item. Staff answered informational questions from the Commission.

MOTION: Motion by Commissioner Haig, seconded by Commissioner Host:
To approve a Construction Staging Area and Construction Coordination Agreement with 370 E. Brown LLC and Sachse Construction and Development for the coordination of construction activities related to 370 E. Brown on Brown Street and Daines Street and to authorize the Mayor and the City Clerk to sign the agreement on behalf of the City.

ROLL CALL VOTE: Ayes, Commissioner Baller
Commissioner Host
Commissioner Haig
tMPT Longe
Commissioner Long
Mayor McLain

Nays, None

06-472-24 Birmingham Wayfinding & Gateway Signage Fabrication and Installation – Phase 1 Contractor Selection

PD Dupuis presented the item. Staff answered informational questions from the Commission.

Individual Commissioner comment on the item was as follows:

- There was support for implementing the proposed lighting using a budget amendment.
- Solar could be used to implement the proposed lighting temporarily.
- A lighting proposal could be created by staff and brought to the Commission for implementation prior to the end of 2024.
- The impact of the lighting for the two ground mounted identification signs should be considered from all angles.

Public Comment
Doug Feehan commented on the wayfinding and branding recommendations.

MOTION: Motion by Commissioner Long, seconded by Commissioner Host:
To approve an agreement with ASI Signage Innovations for wayfinding fabrication and installation in an amount not to exceed $108,400 from account # 101.0-701.000-981.0100. In addition, to authorize the Mayor and City Clerk to sign the agreement on behalf of the City and further, to approve the appropriations and amendment to the General Fund budget as follows:

Revenues:		
Draw from Fund Balance	101.0-000.000-400.0000	$8,400
Expenses:		
Capital Outlay (Public Improvements)	101.0-701.000-981.0100	$8,400

ROLL CALL VOTE: Ayes, Commissioner Baller
Commissioner Host
Commissioner Haig
tMPT Longe
Commissioner Long
Mayor McLain

Nays, None

Commission Items for Future Discussion

06-473-24 Golf Courses

MOTION: Motion by Commissioner Baller, seconded by Mayor McLain:
To talk about the golf courses.

ROLL CALL VOTE: Ayes, Commissioner Baller
Commissioner Host
Commissioner Haig
Commissioner Long
Mayor McLain

Nays, None

06-474-24 48th District Court

MOTION: Motion by Commissioner Host, seconded by Commissioner Baller:
To assign the City Manager and the City Attorney the task of conducting a comparable analysis of the costs and the efficiencies of staying with our current arrangement with the 48th District Court, or having the City of Birmingham assume more responsibility for the delivery of the services. We ask that this report of their findings and recommendations be presented to the Commission no later than November 25, 2024.

Commissioner discussion of the motion was as follows:

- Many Michigan communities are faced with challenges in organizing the funding and delivery of their judicial services.

ROLL CALL VOTE: Ayes, Mayor McLain
Commissioner Host

Nays, tMPT Longe
Commissioner Haig
Commissioner Long
Commissioner Baller

Commission Discussion On Items From A Prior Meeting

VIII. REMOVED FROM CONSENT AGENDA

IX. COMMUNICATIONS

A. YMCA/NEXT Letters

X. REPORTS

A. Commissioner Reports

The Mayor reported back from conversations with MDOT and with the Secretary of State. She noted she would be attending the FBI Citizens' Academy National Conference in Detroit.

B. Commissioner Comments

Commissioner Long thanked CM Ecker and PC Grewe for their work regarding a recent incident. He advocated for publicizing and implementing a zero tolerance policy towards violence in the City.

Commissioner Haig concurred with Commissioner Long and supported the City installing high-resolution cameras.

The Mayor concurred with Commissioner Long as well.

C. Advisory Boards, Committees, Commissions' Reports and Agendas
D. Legislation
E. City Staff

The Commission deferred these reports to the next meeting.

1. Dumpster Report
2. Expanding Special Event Offerings

INFORMATION ONLY

XI. ADJOURN

DRAFT

The Commission motioned to adjourn at 1:18 a.m.

Alexandria Bingham, City Clerk

Laura Eichenhorn, City Transcriptionist

DRAFT

City of Birmingham
Warrant List Dated 06/27/2024

Check Number	Early Release	Vendor #	Vendor	Amount
PAPER CHECK				
298596	*	005430	21ST CENTURY MEDIA- MICHIGAN	2,853.75
298597	*	006965	7UP DETROIT	341.10
298598		000951	ALL AMERICAN CASH REGISTER INC	220.00
298599	*	009393	AMANDA MCBRIDE	360.00
298600		BDREFUND	AMERICAN STANDARD ROOFING	100.00
298601		000167	ANDERSON ECKSTEIN WESTRICK INC	6,909.00
298602		BDREFUND	ANTHONY BRANHAM	100.00
298603	*	003703	AT&T MOBILITY	2,854.69
298604		009609	BALIAN LEGAL, PLC	2,148.00
298605		002231	BILLINGS LAWN EQUIPMENT INC.	616.07
298606		BDREFUND	BINGHAM DEVELOPMENT LLC	4,807.00
298607		BDREFUND	BRIAN NEEPER ARCHITECTURE PC	100.00
298608		BDREFUND	BRICKWORKS PROPERTY RESTORATION	200.00
298609		006966	BRIDGESTONE GOLF, INC	1,000.54
298610		BDREFUND	C E Gleeson Constructors	10,000.00
298611		003907	CADILLAC ASPHALT, LLC	874.75
298612	*	009078	CANON SOLUTIONS AMERICA INC	96.07
298613		000902	CENGAGE LEARNING INC	61.58
298614	*	000627	CONSUMERS ENERGY	3,216.02
298615	*	009656	CORBIN DESIGN, INC	5,368.75
298616		007822	REBEKAH CRAFT	545.19
298617		009873	D/A CENTRAL INC.	126,402.04
298618		008559	DETROIT BATTERY COMPANY LLC	68.09
298619		BDREFUND	DEYONKER WINDOW & DOOR CO	500.00
298620	*	000190	DOWNRIVER REFRIGERATION	87.00
298621	*	000179	DTE ENERGY	11.01
298622	*	000179	DTE ENERGY	22.33
298623	*	000180	DTE ENERGY	9,495.81
298624		BDREFUND	EASY EXIT EGRESS WINDOWS LLC	100.00
298625		004493	ELITE IMAGING SYSTEMS, INC	1,190.17
298626	*	007314	FLEIS AND VANDENBRINK ENG. INC	7,219.18
298627		BDREFUND	FOUNDATION SYSTEMS OF MICHIGAN INC.	100.00
298628		BDREFUND	GILLETTE BROTHERS POOL & SPA	500.00
298629	*	004604	GORDON FOOD	1,056.18
298630		BDREFUND	GREAT LAKES CUSTOM BUILDER LLC	100.00
298631	*	006666	GRID 4 COMMUNICATIONS INC.	228.21
298632		BDREFUND	HANZL, RICHARD	500.00
298633	*	001956	HOME DEPOT CREDIT SERVICES	1,206.74
298634		001415	HORNUNG'S PRO GOLF SALES INC	234.85
298635	*	009884	HURON VALLEY GUNS LLC	1,079.82
298636		BDREFUND	JEFFERY O'CONNELL	500.00
298637	*	009875	JOESPH BRIAN DEAN	500.00

City of Birmingham
Warrant List Dated 06/27/2024

Check Number	Early Release	Vendor #	Vendor	Amount
298638	*	009403	JUSTIN ZAYID	720.00
298639		009894	KIMBERLY MANN	56.28
298640	*	000362	KROGER COMPANY	99.63
298641		BDREFUND	LANDSCAPE DESIGN BY BENNETT MAZELL	200.00
298642		006043	LANDSCAPE STRUCTURES INC	1,409.20
298643	*	009386	LAW OFFICE OF BRIAN P. FENECH	1,920.00
298644	*	009388	LAW OFFICE OF PATRICK G. GAGNIUK	360.00
298645		009375	LITHIA MOTORS, INC SUPPORT SERVICES	2,847.60
298646	*	009082	MADISON ELECTRIC COMPANY	3,884.71
298647	*	009874	MARK J STEWART	500.00
298648		BDREFUND	MCCOMB CONSTRUCTION CO INC	100.00
298649		BDREFUND	MICHIGAN ASPHALT PAVING	200.00
298650		002207	MICHIGAN AUTOMATIC SPRINKLER, INC.	1,981.00
298651		007479	MICHIGAN BREAD BAKERY	90.45
298652	*	001387	MICHIGAN MUNICIPAL LEAGUE	181.50
298653	*	001387	MICHIGAN MUNICIPAL LEAGUE	775.00
298654		008319	MKSK INC	8,781.27
298655		BDREFUND	MONTGOMERY & SONS INC	300.00
298656		BDREFUND	N A MANS & SONS INC	500.00
298657		009896	NATIONAL DOOR SYSTEMS	322.50
298658		BDREFUND	NEW ERA CONSTRUCTION INC	200.00
298659		009704	NOAR TECHNOLOGIES	6,157.00
298660		BDREFUND	OAKES ROOFING SIDING & WINDOWS INC	100.00
298661	*	000477	OAKLAND COUNTY	227,068.43
298662	*	004370	OCCUPATIONAL HEALTH CENTERS	1,350.00
298663		009698	PCI INDUSTRIES, INC	91,846.60
298664		BDREFUND	PELLA WINDOWS & DOORS, INC.	500.00
298665		BDREFUND	PERFORMANCE ROOF SYSTEMS LLC	200.00
298666	*	008323	JOHN PETERS	200.00
298667		BDREFUND	PMS DIVERSIFIED CONSTRUCTION SERVIC	100.00
298668	*	000801	U.S POSTAL SERVICE	1,690.00
298669		BDREFUND	PREMIERE ROOFING AND CONSTRUCTION L	100.00
298670	*	006625	PTS COMMUNICATIONS, INC	171.60
298671		BDREFUND	PURTHER, ANTHONY M	100.00
298672		BDREFUND	RENEWAL BY ANDERSEN	1,000.00
298673	*	009876	RONALD H GOSSELIN	500.00
298674		007265	SAFETY KING, INC.	4,450.00
298675	*	002806	SAM'S CLUB/SYNCHRONY BANK	282.19
298676		BDREFUND	SCHENA ROOFING & SHEET METAL	500.00
298677		009601	SCNS INC	202.40
298678		BDREFUND	SERAFINI, GERALD	200.00
298679		BDREFUND	SHAYA, SHAUN M	100.00
298680	*	007142	SHERWIN-WILLIAMS COMPANY	61.78

City of Birmingham
Warrant List Dated 06/27/2024

Check Number	Early Release	Vendor #	Vendor	Amount
298681	*	008073	SITEONE LANDSCAPE SUPPLY, INC	490.74
298682	*	MISC	SOLYCO, LLC	6,944.00
298683		000260	SPARTAN DISTRIBUTORS INC	94.72
298684	*	007010	STATE OF MICHIGAN	42,756.08
298685		BDREFUND	STERLING DEVELOPMENT CORP	2,500.00
298685	*	BDREFUND	STERLING DEVELOPMENT CORP	200.00
298686		003630	SUN SHADE WINDOW TINTING INC	190.00
298687	*	009384	THE EDITH BLAKNEY LAW FIRM, PLLC	408.00
298688		BDREFUND	THOMAS SEBOLD & ASSOCIATES, IN	21,400.00
298689		000275	TIRE WHOLESALERS CO INC	639.76
298690		MISC	TRAF-SYS, INC	240.00
298691	*	004379	TURNER SANITATION, INC	290.00
298692	*	007226	VALLEY CITY LINEN, INC	22.00
298693	*	000293	VAN DYKE GAS CO.	90.00
298694	*	000158	VERIZON WIRELESS	365.88
298695		BDREFUND	WECHSLER CONSTRUCTION LLC	200.00
298696	*	009026	WELLS FARGO VENDOR FIN SERV	768.47
			SUBTOTAL PAPER CHECK	$633,782.73
ACH TRANSACTION				
10931	*	002284	ABEL ELECTRONICS INC	1,425.00
10932		000394	AERO FILTER INC	190.00
10933	*	000282	APOLLO FIRE APPARATUS SALES AND SER	5,608.43
10934	*	009383	BATTI LAW PLLC	1,620.00
10935	*	000517	BEIER HOWLETT PC	43,211.50
10936	*	007345	BEVERLY HILLS ACE	45.98
10937	*	001441	BIRMINGHAM CONCERT BAND	500.00
10938		006683	BIRMINGHAM LAWN MAINTENANCE, INC	20,738.00
10939	*	007624	BIRMINGHAM OIL CHANGE CENTER, LLC	68.97
10940		007875	CANFIELD EQUIPMENT SERVICE INC.	3,628.80
10941	*	009396	CECILIA QUIRINDONGO BAUNSOE	360.00
10942		000605	CINTAS CORPORATION	45.88
10943		002234	CMP DISTRIBUTORS INC	2,535.00
10944		002668	CONTRACTORS CLOTHING CO	189.00
10945		001367	CONTRACTORS CONNECTION INC	1,261.35
10946		009840	THOMAS S. KLISE COMPANY, INC	145.44
10947	*	009557	ZECO, LLC	550.00
10948	*	009181	DELTA TEMP SERVICES INC	423.00
10949	*	000847	DETROIT SALT COMPANY	16,701.03
10950	*	007538	EGANIX, INC.	720.00
10951		009741	ELIZABETH RAIS	60.03
10952	*	000243	GRAINGER	95.40
10953		003870	GREAT LAKES TURF, LLC	1,684.00
10954	*	001672	HAYES PRECISION INC	90.00

Meeting of 07/08/2024

City of Birmingham
Warrant List Dated 06/27/2024

Check Number	Early Release	Vendor #	Vendor	Amount
10955		007927	MICHELLE HOLLO	568.75
10956	*	000261	J.H. HART URBAN FORESTRY	28,287.30
10957		000186	JACK DOHENY COMPANIES INC	4,042.50
10958	*	002576	JAX KAR WASH	148.00
10959	*	003458	JOE'S AUTO PARTS, INC.	995.63
10960	*	008827	KANOPY, INC	359.55
10961	*	005465	RYAN KEARNEY	92.22
10962	*	009392	LAMB LEGAL CONSULTING SERVICES	360.00
10963	*	009385	LAW OFFICE OF MICHAEL J. DICK	1,296.00
10964	*	005550	LEE & ASSOCIATES CO., INC.	2,161.06
10965	*	003527	LOWER HURON SUPPLY CO INC	1,099.48
10966	*	009398	MARCIA C ROSS PC	1,380.00
10967		002013	MIDWEST TAPE	10,600.78
10968	*	009898	MIRACLE SEASON LLC	11,500.00
10969		008336	NBS COMMERCIAL INTERIORS	1,736.00
10970	*	007755	NETWORK SERVICES COMPANY	101.96
10971	*	009276	NEWTONS SOLUTIONS LLC	1,100.00
10972		001864	NOWAK & FRAUS ENGINEERS	34,086.50
10973	*	009395	ORLANDO LAW PRACTICE PC	360.00
10974		009895	PELOTON INTERACTIVE, INC.	1,807.57
10975	*	001753	PEPSI COLA	701.68
10976		009762	RACHEL MATTI	58.29
10977	*	003785	SIGNS-N-DESIGNS INC	295.00
10978		000254	SOCRRA	76,801.00
10979		008473	THE FINANCIAL TIMES LIMITED INC	1,921.00
10980		005861	UNIQUE MGMT SERVICE, INC	20.60
10981		009128	WITMER PUBLIC SAFETY GROUP INC	204.15
10982	*	009379	YELLOW DOOR LAW	7,152.00
			SUBTOTAL ACH TRANSACTION	$291,133.83
			GRAND TOTAL	$924,916.56

All bills, invoices and other evidences of claim have been audited and approved for payment.

Mark Gerber
Finance Director/ Treasurer

*-Indicates checks released in advance and prior to commission approval in order to avoid penalty or to meet contractual agreement/obligation.

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Planning Division

DATE: July 2, 2024

TO: Jana L. Ecker, City Manager

FROM: Nicholas Dupuis, Planning Director

SUBJECT: Set Public Hearing for 260 N. Old Woodward – TERRA (formerly "The Morrie")– Special Land Use Permit Amendment (Ownership Change)

INTRODUCTION:
The applicant has submitted a Special Land Use Permit Amendment application to change ownership of an existing food and drink establishment serving alcoholic liquors for on premise consumption in Downtown Birmingham. The subject site, Terra (formerly "The Morrie"), is located on the east side of N. Old Woodward between Hamilton Row and Oakland.

The transfer of ownership will not include any changes to the use of the business/property, nor will any changes in the site/property occur as a result of this transfer. If approved, the Special Land Use Permit would be transferred from The Morrie Birmingham, LLC to Old Woodward STA, LLC.

BACKGROUND:
On July 23, 2018 (Agenda – Minutes), the City Commission moved to approve the original Special Land Use, Final Site Plan and Design Review application for The Morrie.

On September 20, 2021 (Agenda – Minutes), the City Commission approved a Special Land Use Permit Amendment, Final Site Plan and Design Review application for a new outdoor dining platform in the N. Old Woodward right-of-way with no other changes to the operation of the establishment or the building.

On June 3, 2024 (Agenda), the City Commission held a public hearing for this establishment and took no action due to an unexpected name change in the establishment from "Coterie" to "Terra." Due to no action being taken, the applicant was forced to restart the public hearing process and submit all new documentation that was consistent with the new establishment name. Additionally, the City will re-notice the public hearing, and it was suggested that the applicant assume the cost of the new round of notices.

LEGAL REVIEW:
The City Attorney has reviewed this request and has no objections as to form and content. The executed contract will be thoroughly reviewed at the time of the public hearing.

FISCAL IMPACT:
There are no fiscal impacts for this agenda item.

SUSTAINABILITY:
Not applicable.

DESIGN CONSIDERATIONS:
No design changes proposed.

PUBLIC COMMUNICATIONS:
As required for Special Land Use Permit Reviews, a legal ad will placed in a newspaper of local circulation to advertise the public hearing at the City Commission meeting on August 12, 2024. In addition, postcards with be sent out to property owners and occupants within 300 feet of the subject site.

SUMMARY:
The Planning Division requests that the City Commission set a public hearing date of August 12, 2024 to consider the Special Land Use Permit Amendment for 260 N. Old Woodward to transfer ownership and update the Special Land Use Permit with the new owner, Old Woodward STA, LLC (Terra).

ATTACHMENTS:
Please see attached the following documents:

- Special Land Use Permit Resolution
- Special Land Use Permit Contract (Draft)
- Application Materials
- Approved Site/Design Plans (2021)

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution to set a public hearing date of August 12, 2024 to consider the Special Land Use Permit Amendment for 260 N. Old Woodward to transfer ownership and update the Special Land Use Permit with the new owner, Old Woodward STA, LLC (Terra).

Terra
260 N. Old Woodward
Special Land Use Permit Amendment 2024

WHEREAS, The City Commission granted a Special Land Use Permit, Final Site Plan and Design Review approval for The Morrie at 260 N. Old Woodward on July 23, 2018 and granted a Special Land Use Permit Amendment on September 20, 2021;

WHEREAS, A Special Land Use Permit Amendment application was filed in April 2024 for approval of the transfer of ownership and name change of an existing food and drink establishment serving alcoholic liquors for on premise consumption at 260 N. Old Woodward from The Morrie Birmingham, LLC to Old Woodward STA, LLC (herein after referred to as "Terra");

WHEREAS, The land for which the Special Land Use Permit is sought is located on the east side of N. Old Woodward between Hamilton Row and Oakland;

WHEREAS, The land is zoned B4 (Business-Residential) and D4 (Downtown Overlay), which permits alcoholic beverage sales for on premise consumption with a Special Land Use Permit;

WHEREAS, Article 7, section 7.34 of Chapter 126, Zoning requires a Special Land Use Permit to be considered and acted upon by the Birmingham City Commission, after receiving recommendations on the site plan and design from the Planning Board for the proposed Special Land Use;

WHEREAS, The applicant has stated that there will be no modification to the premises, structurally, and that the applicant will continue the menu and design submitted under the original Special Land Use Permit, thus not necessitating a Final Site Plan and Design Review at the Planning Board;

WHEREAS, The name of the establishment located at 260 N. Old Woodward is proposed to change from "The Morrie" to "Terra" with no substantial changes to premises or the operations at 260 N. Old Woodward;

WHEREAS, The Birmingham City Commission has conducted a public hearing on August 12, 2024, and has reviewed Terra's Special Land Use Permit Amendment application and the standards for such review as set forth in Article 7, section 7.36 of Chapter 126, Zoning, of the City Code;

NOW, THEREFORE, BE IT RESOLVED, The Birmingham City Commission finds the standards imposed under the City Code have been met, subject to the conditions below, and that Terra's application for a Special Land Use Permit Amendment at 260 N. Old Woodward is hereby approved;

BE IT FURTHER RESOLVED, That the City Commission determines that to ensure continued compliance with Code standards and to protect public health, safety, and welfare, this Special Land Use Permit Amendment is granted subject to the following conditions:

1. Terra shall abide by all provisions of the Birmingham City Code;
2. Terra shall comply with the approved site and design plans and any amendments thereto, and all conditions of approval assigned by the Planning Board and City Commission in 2018 and 2021; and
3. The Special Land Use Permit may be canceled by the City Commission upon finding after proper notice and a hearing that the continued use is not in the public interest.

BE IT FURTHER RESOLVED, That failure to comply with any of the above conditions shall result in termination of the Special Land Use Permit.

BE IT FURTHER RESOLVED, Except as herein specifically provided, Terra and its heirs, successors, and assigns shall be bound by all ordinances of the City of Birmingham in effect at the time of the issuance of this permit, and as they may be subsequently amended. Failure of Terra to comply with all the ordinances of the City may result in the Commission revoking this Special Land Use Permit.

BE IT FURTHER RESOLVED that Terra is recommended for approval of the transfer of ownership of an existing food and drink establishment serving alcoholic liquors for on premise consumption at 260 N. Old Woodward from The Morrie Birmingham, LLC to Old Woodward STA, LLC, above all others, subject to final inspection.

I, Alexandria Bingham, City Clerk of the City of Birmingham, Michigan, do hereby certify that the foregoing is a true and correct copy of the resolution adopted by the Birmingham City Commission at its regular meeting held on August 12, 2024.

_____

Alexandria Bingham
City Clerk

CONTRACT FOR A SPECIAL LAND USE PERMIT
260 N. OLD WOODWARD – TERRA

This Contract is entered into this____day of_____, 2024 by and between **OLD WOODWARD STA, LLC**, whose address is 29850 Northwestern Highway Suite 200, Southfield MI 48034 (hereinafter referred to as "Terra"), **THE PALLADIUM OF BIRMINGHAM, LLC,** whose address is 4036 Telegraph Road Suite 201. Bloomfield Hills MI, 48302 (Property Owner), and the **CITY OF BIRMINGHAM**, a Michigan Municipal Corporation, whose address is 151 Martin Street, Birmingham, Michigan 48009 (City).

R E C I T A L S:

WHEREAS, The City Commission granted a Special Land Use Permit, Final Site Plan and Design Review approval for The Morrie at 260 N. Old Woodward on July 23, 2018 and granted a Special Land Use Permit Amendment on September 20, 2021;

WHEREAS, A Special Land Use Permit Amendment application was filed in April 2024 for approval of the transfer of ownership and name change of an existing food and drink establishment serving alcoholic liquors for on premise consumption at 260 N. Old Woodward from The Morrie Birmingham, LLC to Old Woodward STA, LLC (Terra);

WHEREAS, The land for which the Special Land Use Permit is sought is located on the east side of N. Old Woodward between Hamilton Row and Oakland;

WHEREAS, The land is zoned B4 (Business-Residential) and D4 (Downtown Overlay), which permits alcoholic beverage sales for on premise consumption with a Special Land Use Permit;

WHEREAS, Article 7, section 7.34 of Chapter 126, Zoning requires a Special Land Use Permit to be considered and acted upon by the Birmingham City Commission, after receiving recommendations on the site plan and design from the Planning Board for the proposed Special Land Use;

WHEREAS, The applicant has stated that there will be no modification to the premises, structurally, and that the applicant will continue the menu and design submitted under the original Special Land Use Permit, thus not necessitating a Final Site Plan and Design Review at the Planning Board;

WHEREAS, The name of the establishment located at 260 N. Old Woodward is proposed to change from "The Morrie" to "Terra" with no changes to premises or the operations at 260 N. Old Woodward;

WHEREAS, the City of Birmingham Commission is granting a contract to Terra for the approval of the use of an on-premises liquor license, Special Land Use Permit.

NOW, THEREFORE, the parties agree as follows:

DRAFT

1. Terra will utilize a state issued liquor license for use solely at the Property. Any transfer of the aforementioned license from the Property to any other location in the City of Birmingham shall require the approval of the Birmingham City Commission in accordance with Section 10-83 of the City of Birmingham Code of Ordinances. In addition, any expansion of the Property shall also require the approval of the Birmingham City Commission.

2. Terra further acknowledges that it must maintain a Special Land Use Permit for the sale of alcoholic liquors for on premise consumption as required by the Birmingham City Code of Ordinances. It is agreed that Terra shall comply with all provisions of the Special Land Use Permit, or any amendments thereto, as a condition of this contract. Terra further acknowledges and agrees that a violation of any provision of the Special Land Use Permit or the Michigan Liquor Control Code is a violation of the terms of this contract entitling the City to exercise any or all of the remedies provided herein.

3. Terra acknowledges that no modifications to the site plan, floor plan, elevations or operation of the establishment may be made unless approved by the City Commission through a Special Land Use Permit Amendment as required in the Zoning Ordinance. Modifications include, but are not limited to, name changes, ownership changes, remodeling, changes in the number of interior or exterior seats, etc.

4. Terra acknowledges that outdoor dining is permitted with a valid Outdoor Dining License which is applied for and granted annually.

5. Terra agrees that it shall not apply or seek from the Michigan Liquor Control Commission any permit endorsements to its liquor license whether available in the current Michigan Liquor Control Code or in future Michigan Liquor Control Codes, or amendments thereto, without the prior approval of the Birmingham City Commission.

6. Terra further agrees that it shall not seek any change in its license status/class whether such changes are available now in the current Michigan Liquor Control Code or in future Michigan Liquor Control Codes, or amendments thereto, without prior approval of the Birmingham City Commission.

7. Terra agrees that it shall adhere to all Federal, State and Local ordinances currently in effect or as subsequently amended or enacted.

8. Terra agrees that its failure to follow any of the provisions herein may be grounds for the Michigan Liquor Control Commission to suspend, revoke or not renew its liquor license and/or for the Birmingham City Commission to revoke the Special Land Use Permit, either of which would prohibit Terra from operating the establishment. Terra agrees that in addition to the City of Birmingham's right to seek suspension, revocation or non-renewal of its liquor license and/or revocation of the Special Land Use Permit, the City retains any and all rights to enforce this Contract that may be available to it in law or in equity. Terra further agrees that it shall reimburse the City all of its costs and actual attorney fees incurred by the City in seeking the suspension, revocation or non-renewal of its liquor license and revocation of the Special Land Use Permit, as well as enforcing such other rights as may be available at law and/or in equity.

9. To the fullest extent permitted by law, Terra and any entity or person for whom Terra is legally liable, agrees to be responsible for any liability, defend, pay on behalf of,

DRAFT

indemnify, and hold harmless the City, its elected and appointed officials, employees and volunteers and others working on behalf of the City against any and all claims, demands, suits, or loss, including all costs connected therewith, including all costs and actual attorney fees, and for any damages which may be asserted, claimed or recovered against or from the City, its elected and appointed officials, employees, volunteers or others working on behalf of the City, by reason of personal injury, including bodily injury, death and/or property damage, including loss of use thereof, which arises out of or is in any way connected or associated with Terra's operation of an establishment at the Property. Terra is not liable if the act or omission is the City's.

10. In the event Terra fails to reimburse the City the costs and/or attorney fees as required herein, or any part thereof, then said amount could be transferred to the tax roll in accordance with Section 1-14 of the Birmingham City Code as acknowledged by the Property Owner.

11. Any disputes arising under this Contract, not within the jurisdiction of the Michigan Liquor Control Commission, shall be settled either by commencement of a suit in Oakland County Circuit Court or by compulsory arbitration, at the election of the City. If both parties elect to have the dispute resolved by arbitration, it shall be settled pursuant to Chapter 50 of the Revised Judicature Act for the State of Michigan and administered by the American Arbitration Association with one arbitrator being used, or three arbitrators in the event any party's claim exceeds $1,000,000. Each party shall bear its own costs and expenses and an equal share of the arbitrator's and administrative fees of arbitration. Such arbitration shall qualify as statutory arbitration pursuant to MCL §600.5001 et seq., and the Oakland County Circuit Court or any court having jurisdiction shall render judgment upon the award of the arbitrator made pursuant to this Agreement. The laws of the State of Michigan shall govern this Agreement, and the arbitration shall take place in Oakland County, Michigan. In the event that the parties elect not to have the matter in dispute arbitrated, any dispute between the parties may be resolved by the filing of a suit in a federal or state court with jurisdiction over Oakland County, Michigan.

12. This contract shall be governed by and performed, interpreted and enforced in accordance with the laws of the State of Michigan.

13. If any provision of this contract is declared invalid, illegal or unenforceable, such provision shall be severed from this contract and all other provisions shall remain in full force and effect.

14. The City determines that to ensure continued compliance with Code standards and to protect public health, safety, and welfare, this Special Land Use Permit Amendment is granted subject to the following conditions:

a. Terra shall abide by all provisions of the Birmingham City Code;
b. Terra shall comply shall comply with the approved site and design plans and any amendments thereto, and all conditions of approval assigned by the Planning Board and City Commission in 2018 and 2021; and
c. The Special Land Use Permit may be canceled by the City Commission upon finding after proper notice and a hearing that the continued use is not in the public interest.

DRAFT

15. Failure to comply with any of the above conditions may result in termination of the Special Land Use Permit after Terra has been given notice and a hearing.

16. Except as herein specifically provided, Terra and its heirs, successors, and assigns shall be bound by all ordinances of the City of Birmingham in effect at the time of the issuance of this permit, and as they may be subsequently amended. Failure of Terra to comply with all the ordinances of the City may result in the Commission revoking this Special Land Use Permit, after notice and a hearing.

17. Terra is recommended for the operation of an establishment serving alcoholic beverages for on premise consumption, above all others, subject to final inspection.

18. This Contract shall be binding upon and apply and inure to the benefit of the parties hereto and their respective successors or assigns. The covenants, conditions, and the agreements herein contained are hereby declared binding on the City and Terra. It is further agreed that there shall be no change, modification, or alteration hereof, except in writing, signed by all of the parties hereto. Neither party shall assign any of the rights under this contract without prior approval, in writing, of the other. Any attempt at assignment without prior written consent shall be void and of no effect.

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(This space intentionally left blank)

IN WITNESS WHEREOF, the parties hereby have executed this Contract as of the date set forth above.

OLD WOODWARD STA, LLC (Terra)

By: _____

Its: _____

Date: _____

STATE OF MICHIGAN)
) ss:
COUNTY OF OAKLAND)

On this _____day of _____, 2024, before me personally appeared _____who acknowledged that with authority on behalf **OLD WOODWARD STA, LLC** to do so signed this Agreement.

_____
Notary Public
_____County, Michigan
Acting in _____ County, Michigan
My commission expires: _____

THE PALLADIUM OF BIRMINGHAM, LLC (Property Owner)
(as to paragraph 10 only)

By: _____

Its: _____

STATE OF MICHIGAN)
) ss:
COUNTY OF OAKLAND)

On this _____day of _____, 2024, before me personally appeared _____, who acknowledged that with authority on behalf of **THE PALLADIUM OF BIRMINGHAM, LLC** to do so signed this Agreement.

_____
Notary Public
_____County, Michigan
Acting in _____ County, Michigan
My commission expires: _____

DRAFT

CITY OF BIRMINGHAM

By: _____
Elaine McLain, Mayor

By: _____
Alexandria D. Bingham, City Clerk

APPROVED:

_____
Jana L. Ecker, City Manager
(Approved as to substance)

_____
Nicholas J. Dupuis, Planning Director
(Approved as to substance)

_____
Mary M. Kucharek, City Attorney
(Approved as to form)

DRAFT

Joseph A. Shallal
Neb Mekani
John J. Orow
John N. Hindo
Alexander Shallal
Anthony Shallal

Law Offices Of

MEKANI, OROW, MEKANI, SHALLAL & HINDO, P.C.

A Professional Corporation
255 South Old Woodward Ave
Suite 304
Birmingham, MI 48009
Telephone (248) 223–9830
Facsimile (248) 265-4107
joeshallal@momshlaw.com

Of Counsel
Jane Shallal
John I. Kittel

Louie E. Mekani
(1971 – 2000)

June 24, 2024

Via Email

Nicholas Dupuis
City of Birmingham, Planning Director
151 Martin Street
Birmingham, Michigan 48009

Re: *SLUP for Old Woodward STA, LLC dba Terra*
Located at 260 N. Old Woodward Avenue Birmingham, MI 48009

Dear Mr. Dupuis,

Please find enclosed the Special Land Use Application and the Notice Signed Rental Application, for the SLUP. The application is merely for a change of ownership. The current licensee, The Morrie Birmingham, LLC, is selling all its business assets to Old Woodward STA, LLC. There will be no structural modifications to the premises. No changes will be made to the plumbing. The new applicant will seek cosmetic changes to the paint, flooring, and furnishing. The changes will involve placing a single private table for 16 people in the area that was previously a stage. New shelving will be placed around the back bar. Light fixtures will be added and replaced to accentuate the décor. The applicant will continue the menu.

If you have any questions, please feel free to contact my office. Thank you.

Respectfully,
Mekani, Orow, Mekani,
Shallal & Hindo, P.C.

Joseph A. Shallal

Joseph A. Shallal

Terra
Kitchen + Cocktails

What are we?

Nestled in the heart of downtown Birmingham, Terra will become a repeat spot for an upscale-casual, modern, dining experience. We feel that we will fill a gap in which the city lacks – a cool and comfortable but gorgeous restaurant that is inviting to families looking to share a meal, businesspeople alike who are grabbing a quick bite to eat solo, to couples and friends that want to try the coolest new restaurant on Old Woodward Ave.

We aim to create a space where people alike can gather, dine and enjoy a blend of flavors and drinks sure to appease the body and mind. Our core values include authenticity, integrity, quality, consistency and hospitality. We are awesome food, great drinks, and the best vibe.

Terra – a belonginess to land, Latin for the word “Earth”, and a oneness with nature. Items we wish our guests feel when indulging in our delicious and sustainable dishes. We feel deeply connected to this powerful name – as it is also is a play on another huge component of our restaurant, the terrace.

Who are we?

Randy Foumia is a seasoned executive with a robust background in the restaurant and real estate industries. He oversees operations across Michigan, and plays a pivotal role in the expansion and management of Pokē Pokē - Sushi Unrolled, with 20 locations spanning across Michigan, Florida, and Texas.

A proud alumnus of St. Mary's High School in Orchard Lake, MI, Randy furthered his education at Oakland University, where he earned a Bachelor's Degree. His entrepreneurial spirit led him to own and operate multiple restaurants and real estate ventures across three states, showcasing his adeptness in managing complex operations and strategic growth.

Randy's deep-rooted passion for the restaurant industry drives his continuous success and expansion efforts. He is eager to leverage his experience and enthusiasm in his latest endeavor, bringing his innovative management and operational strategies to Birmingham.

In addition to his professional pursuits, Randy is dedicated to the culinary arts, always exploring new ways to enhance dining experiences and customer satisfaction.

Menu Highlights

Appetizers
Bang Bang Shrimp
Tuna Nachos on Wonton Chips
Mini Lobster Rolls
Smoked Wings
Hot Chicken & Pickles
Avocado Hummus
Soup Dumplings
Crispy Rice with Brisket
Beef & Cheese Empanadas
Lamb Kufta
Cheese & Charcuterie Board

Soups & Salads
Tomato Soup with Grilled Cheese Croutons
Chicken Tortilla Soup
Mediterranean Stuffed Salad
Brussel Sprout Caesar
Chopped Italian Salad
Modern Waldorf
Seared Ahi Tuna Salad
Salad Rustique
Superfood Salad

Entrees
Filet
NY Steak Frites
French Lamb Chops
Chicken Parmesan
Chicken Tikka
Salmon
Blackened Mahi
Grilled Shrimp
Roasted Eggplant

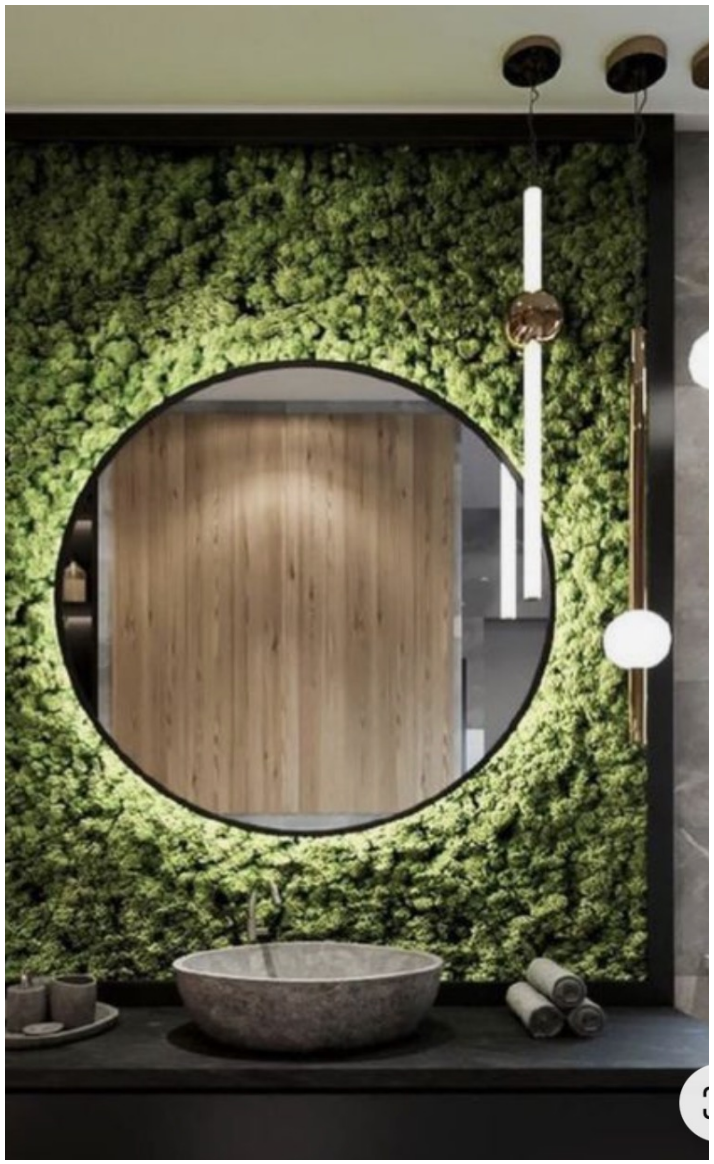
Pastas & Bowls
Short Rib Bolognese
Cajun Chicken
Zip Cream
Teriyaki Chicken Bowl
Crispy Tofu Bowl

Handhelds
Smash Burger
Lamb Burger
Brisket Stacked Burger
Fried Chicken Sandwich
Grilled Chicken Sandwich
Steak Sandwich
Mahi Mahi Sandwich
Beyond Burger

Kids
Macaroni & Cheese
Chicken Tenders
Grilled Chicken
Salmon
Cheeseburger

Interior Inspiration – bright and beautiful, featuring white-wash oak, greens accompanied with moss and foliage, metallics, black leather textures, and Gold calacatta marble. The coveted color, green, represents growth, strength and stability.

5D



Branding + Identity

We have brought on the team at Semi:Formal. Semi:Formal is the multi-disciplinary studio practice of award-winning graphic designer, Paolo Catalla. Together, we are building out a brand that will capture the every essence and hearts of Birmingham-goers alike.

Front Windows Rendering - Facing Old Woodward Ave.
Ambiguous & Creative

150
KENTUCKY
DERBY
Terra

BIRMINGHAM

Special Land Use Permit Application – General
Planning Division

1. Applicant
Name: OLD WOODWARD STA, LLC (MANAGER RANDY FOUMIA)
Address: 260 N. OLD WOODWARD AVE
BIRMINGHAM, MI 48009
Phone Number: 248-444-5820
Email: randyfoumia@gmail.com

2. Property Owner (☐ *same as applicant*)
Name: THE PALLADIUM OF BIRMINGHAM, LLC c/o A.F. JONNA DEVELOPMENT & MANAGEMENT COMPANY, LLC
Address: 4036 TELEGRAPH RD STE 201
BLOOMFIELD HILLS, MI 48302
Phone Number:
Email: jj@afjonna.com

3. Project Contact Person (☑ *same as applicant*)
Name: RANDY FOUMIA
Address: 260 N. OLD WOODWARD AVE
Phone Number: 248-444-5820
Email: randyfoumia@gmail.com

4. Project Designer/Developer
Name: BIDDISON ARCHITECTURE P.C.
Address: 320 MARTIN ST. STE 10
BIRMINGHAM, MI 48009
Phone Number: 248-554-9500
Email: kb@biddison-ad.com

5. Required Attachments
- One (1) paper copy and of all project plans including:
  - Existing Conditions Plan including the subject site in its entirety, including all property lines, buildings, structures, curb cuts, sidewalks, drives, ramps and all parking on site and on the street(s) adjacent to the site, and must show the same detail for all adjacent properties within 200 ft. of the subject site's property lines;
  - Detailed and scaled Site Plan depicting accurately and in detail the proposed construction, alteration or repair;
  - Certified Land Survey;
  - Interior floor plans;
  - Landscape Plan;
  - Photometric Plan;
  - Colored elevation drawings for each building elevation;
- One (1) digital copy of all project plans;
- Specification sheets for all proposed materials, light fixtures and mechanical equipment;
- Samples of all proposed materials;
- Photographs of existing conditions on the site including all structures, parking areas, landscaping and adjacent structures;
- Current aerial photographs of the site and surrounding properties;
- Proof of ownership;
- Any other data requested by a review board, Planning Department, or other City Departments.

6. Project Information
Address: 260 N. WOODWARD AVENUE BIRMINGHAM, MI 48009
Name of Development: THE PALLADIUM
Parcel ID#: 08-99-00-020-060
Current Use: A-2 Restaurant
Proposed Use: A-2 Restaurant
Area of Site in Acres: 0.00
Current Zoning: B4 with D4 overlay

	Yes	No
Is the property located in a floodplain? -----	☐	☑
Is the property within a Historic District? ---	☐	☑
→ If so, which?		
Will the project require a variance? ---------	☐	☑
→ If so, how many?		
Has the project been reviewed by a Board?	☐	☑
→ If so, which?		

7. Details of the Request for Preliminary Site Plan Review
Change of ownership of the current business known as The Morrie Birmingham. The new dba name for the applicant will be "Terra Kitchen & Cocktails." No structural changes will be made and no changes to plumbing. The stage area will be replaced by a single private dining table/area. New shelving will be placed around the back bar. Light fixers will be added and replaced to accentuate the decor. The applicant will continue the menu.

8. Buildings and Structures

Number of buildings on site: 1
Use of building(s): Commercial
Height of building(s): _____
Number of stories: _____

9. Floor Use and Area (in Square Feet)

Proposed Commercial Uses:

Total basement floor area: N/A
Total ground floor area: 7,952 sq ft
Square feet per upper floor(s): N/A
Commercial floor area: N/A
Industrial floor area: N/A
Office floor area: N/A
Total floor area: 7,952 sq ft

Proposed Residential Uses:

Total number of units: N/A
Number of two or less room units: N/A
Number of three or more room units: N/A
Residential unit floor area: N/A
Residential amenity floor area: N/A
Unit Type(s): ☐ Rental ☐ Condominiums ☐ Both

Proposed Additions:

Existing total floor area: NONE
Proposed total floor area: NONE
Location of addition(s): ☐ Rooftop ☐ Side ☐ Rear ☐Front ☐Other (please specify) N/A

10. Required and Proposed Setbacks

Required front setback: _____
Required rear setback: N/A
Required side setback(s): N/A
Proposed front setback: _____
Proposed rear setback: N/A
Proposed side setback(s): N/A

11. Required and Proposed Parking

Required number of parking spaces: CITY PARKING
Proposed number of parking spaces: CITY PARKING
Typical size of parking spaces: CITY PARKING
Number of barrier free spaces: N/A

12. Landscaping

Description of proposed landscaping: Existing planters

☑ I have reviewed the City of Birmingham's Prohibited Species in Article 4, Section 4.20 of the Zoning Ordinance

13. Streetscape

Required sidewalk width: 5' 0"
Required benches: _____
Required street trees: _____
Require street lights: _____
Required trash receptacles: _____
Required bike racks: _____
Proposed sidewalk width: _____
Proposed benches: _____
Proposed street trees: _____
Proposed street lights: _____
Proposed trash receptacles: _____
Proposed bike racks: _____

14. Loading

Required loading spaces: N/A
Required dimensions: N/A
Proposed loading spaces: N/A
Proposed dimensions: N/A

15. Waste Receptacles

Location of waste receptacle(s): Wit hint hepat iospace
Types of waste receptacles: ☑ Dumpster ☑ Recycling ☐ Compactor ☐ Cans ☐ Grease ☐ Other

16. Mechanical Equipment

Rooftop Mechanical Equipment:
Description of location of units on rooftop: _____
Number of units: _____
Types of units: _____

Ground Mounted Mechanical Equipment:
Description of location of units on ground: _____
Number of units: _____
Types of units: _____

Utilities and Transformers:
Description of location of units on ground: _____
Number of units: _____
Types of units: _____

17. Lighting
Location of light fixtures: _____
Within the city sidewalk and patio are a

Types of light fixtures: ☐ Spot ☐ Flood ☐ Area
☐ Bollard ☐ In-grade ☐ Goosenecks ☐ Lanterns
☐ Security ☑ Pole-Mounted ☐ Wall Pack ☐ Other

The undersigned states the above information is true and correct, and understands that it is the responsibility of the applicant to advise the Planning Division and / or Building Division of any additional changes made to an approved site plan. The undersigned further states that they have reviewed the procedures and guidelines for Site Plan Review in Birmingham, and have complied with the same. The undersigned will be in attendance at the Planning Board meetingwhen this application will be discussed.

Signature of Property Owner: _____ **Date:** 6/20/2024

Print Name: Jorden Jonna

Signature of Applicant: _____ **Date:** 6/20/2024

Print Name: Randy Foumia

Signature of Architect: _____ **Date:** 6/20/2024

Print Name: Kevin Biddison

Office Use Only

Application #: _____ Date Received: _____ Fee: $ _____

Date of Approval: _____ Date of Denial: _____ Reviewed By: _____

v. 1/4/23

BIRMINGHAM

Notice Sign Rental Application
Community Development

1. Applicant
Name: OLD WOODWARD STA, LLC (MANAGER RANDY FOUMIA)
Address: 260 N. OLD WOODWARD AVE
BIRMINGHAM, MI 48009
Phone Number: 248-444-5820
Email: randyfoumia@gmail.com

2. Property Owner (☐ *same as applicant*)
Name: THE PALLADIUM OF BIRMINGHAM, LLC c/o A.F. JONNA DEVELOPMENT & MANAGEMENT COMPANY, LLC
Address: 4036 TELEGRAPH RD STE 2 0
BLOOMFIELD HILLS, MI 48302
Phone Number:
Email: JJ@afjonna.com

3. Project Information
Address: 260 N. OLD WOODWARD AVE
Name of Development: THE PALLADIUM
Parcel ID#: 08-99-00-020-000
Current Use: A-2 Restaurant
Proposed Use: A-2 Restaurant
Area of Site in Acres: 0.00
Current Zoning: B4 with D4 overlay

	Yes	No
Is the property located in a floodplain?	☐	☑
Is the property within a Historic District?	☐	☑
→ If so, which?		
Will the project require a variance?	☐	☑
→ If so, how many?		
Has the project been reviewed by a Board?	☐	☑
→ If so, which?		

4. Date of Board/Commission Review
City Commission:
Planning Board:
Historic District Commission:
Design Review Board:
Board of Zoning Appeals:
Advisory Parking Committee:
Multimodal Transportation Board:
Other:

The undersigned states the above information is true and correct, and understands that it is the responsibility of the applicant to post the Notice Sign(s) at least 15 days prior to the date on which the project will be reviewed by the appropriate board or commission, and to ensure that the Notice Sign(s) remains posted during the entire 15 day mandatory posting period. The undersigned further agrees to pay a rental fee and security deposit for the Notice Sign(s), and to remove all such signs on the day immediately following the date of the hearing at which the project was reviewed. The security deposit will be refunded when the Notice Sign(s) are returned undamaged to the Community Development Department. Failure to return the Notice Sign(s) and/or damage to the Notice Sign(s) will result in forfeiture of the security deposit.

Signature of Applicant: _____ Date: 6/20/2024

Office Use Only

Application #: _____ Date Received: _____ Fee: $ _____
Date of Approval: _____ Date of Denial: _____ Reviewed By: _____

LIGHT POLE
PARKING METER
PLANTER
EXISTING PARKING
A
A.1
B
C
D
E
15'-0" PATIO WIDTH
LINE OF PATIO PLATFORM
BLACK ALUMN. POWERCOATED FENCE
SUPPLIES
TRASH
SANITATION STATION
1'-10"
7'-0" TYP.
2'-0" TYP.
8'-0" PATIO LENGTH
39'-8"
GAS HEATERS (TYP. OF 4)
5'-0" TYP. SPACING
EXISTING PARKING LINES
36"x36" TABLE OF 4 W/ UMBRELLA (TYP. OF 8)
PLANTERS -TYP.
EXISTING PARKING
EXIST. MAIN ENTRY
PAINT EX. GREY BRICK WHITE
NEW GREEN WALL AND SIGNAGE
REFINSH EX. COUNTER TOP
REFINSH EX. TABLE TOPS
NEW BENCH SEATING
NEW BENCH SEATING
REFINSH EX. TABLE TOPS
REFINSH EX. TABLE TOPS
LIGHT FIXTURES REPLACED THIS AREA
BLACK ALUMN. POWERCOATED FENCE
STORAGE
NEW WINE RACKS ABOVE
NEW 42"BOTTLE SHELVING
GROUP TABLE
NEW 42" HIGH BOTTLE SHELVING
NEW 42"BOTTLE SHELVING
HIGHTOP SEATING
HIGHTOP SEATING
HIGHTOP SEATING
LIGHT FIXTURES REPLACED THIS AREA
HIGHTOP SEATING
HIGHTOP SEATING
EXISTING RAISED BOOTH SEATING TO REMAIN REFINISH EX. TABLE TOPS
PAINT EX. GREY BRICK WHITE
NEW GREEN PLANT WALL & SIGN
REPLACE WOOD DOOR WITH GLASS DOOR
REFINSH EX. TABLE TOPS
LIGHT FIXTURES REPLACED THIS AREA
office & Liquor storage
HOT BOX
beer COOLER
WALK-IN FREEZER
WALK-IN cooler
RESTROOMs
DRY STORAGE
JANITOR ROOM
ELECTRICAL
by others
54"W18
54"W24
42"W24
36"W24
NORTH

OVERALL FLOOR PLAN

SCALE: 3/16"=1'-0"

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Planning Division

DATE: July 2, 2024

TO: Jana L. Ecker, City Manager

FROM: Nicholas Dupuis, Planning Director

SUBJECT: Public Hearing for 115 Willits – Sprazzo – Special Land Use Permit Amendment (Ownership Change)

INTRODUCTION:
The applicant has submitted a Special Land Use Permit Amendment application to change ownership of an existing food and drink establishment serving alcoholic liquors for on premise consumption in Downtown Birmingham. The subject site is located on the south side of Willits between Bates St. and N. Old Woodward.

The transfer of ownership will include minimal changes to the use of the business/property including a name change from "Mare Mediterranean" to "Sprazzo" as well as a shift in hours to include breakfast, lunch and dinner. Additionally, minor changes to the interior only will occur as a result of this transfer. If approved, the Special Land Use Permit would be transferred from Hospitality Birmingham, LLC (Mare Mediterranean) to Birmingham Omni Hospitality, LLC (Sprazzo).

BACKGROUND:
On July 12, 2021 (Agenda – Minutes), the City Commission moved to approve the original Special Land Use, Final Site Plan and Design Review application for Mare Mediterranean and enter into a Special Land Use Permit Contract with Hospitality Birmingham, LLC (Antonino Cutraro, Member).

LEGAL REVIEW:
The City Attorney has reviewed this request and has no objections as to form and content. The executed contract will be thoroughly reviewed at the time of the public hearing.

FISCAL IMPACT:
There are no fiscal impacts for this agenda item.

SUSTAINABILITY:
Not applicable.

DESIGN CONSIDERATIONS:
No design changes proposed.

PUBLIC COMMUNICATIONS:
As required for Special Land Use Permit Reviews, a legal ad was placed in a newspaper of local circulation to advertise the public hearing at the City Commission meeting on July 8, 2024. In addition, postcards were sent out to property owners and occupants within 300 feet of the subject site.

SUMMARY:
The applicant requests that the City Commission consider the Special Land Use Permit Amendment for 115 Willits to transfer ownership and update the Special Land Use Permit to the new owner, Birmingham Omni Hospitality, LLC (Sprazzo). In addition, to consider authorizing the City Clerk to complete the Local Approval Notice to approve the transfer of ownership of the Class C liquor license, with Sunday sales, outdoor service area, dance and entertainment permit.

ATTACHMENTS:
Please see attached the following documents:

- Special Land Use Permit Resolution
- Special Land Use Permit Contract
- Police Liquor License Investigation Report
- Approved Site/Design Plans (2021)

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution to APPROVE the Special Land Use Permit Amendment for 115 Willits to transfer ownership and update the Special Land Use Permit to the new owner, Birmingham Omni Hospitality, LLC (Sprazzo).

AND

Make a motion adopting a resolution to authorize the City Clerk to complete the Local Approval Notice at the request of Birmingham Omni Hospitality, LLC. to approve the request for a transfer of ownership of the Class C liquor license, with Sunday sales, outdoor service area, dance and entertainment permit from Hospitality Birmingham, LLC located at 115 Willits, MI to Birmingham Omni Hospitality, LLC that will be located at the same address.

Sprazzo
115 Willits
Special Land Use Permit Amendment 2024

WHEREAS, The City Commission granted a Special Land Use Permit, Final Site Plan and Design Review approval for the establishment at 115 Willits on July 12, 2021;

WHEREAS, A Special Land Use Permit Amendment application was filed in May 2024 for approval of the transfer of ownership of an existing food and drink establishment serving alcoholic liquors for on premise consumption at 115 Willits from Hospitality Birmingham, LLC (Mare Mediterranean) to Birmingham Omni Hospitality, LLC (herein after refered to as "Sprazzo");

WHEREAS, The land for which the Special Land Use Permit is sought is located on the south side of Willits between Bates St. and N. Old Woodward;

WHEREAS, The land is zoned B4 (Business-Residential) and D4 (Downtown Overlay), which permits alcoholic beverage sales for on premise consumption with a Special Land Use Permit;

WHEREAS, Article 7, section 7.34 of Chapter 126, Zoning requires a Special Land Use Permit to be considered and acted upon by the Birmingham City Commission, after receiving recommendations on the site plan and design from the Planning Board for the proposed Special Land Use;

WHEREAS, The Special Land Use Permit Amendment request for the transfer of ownership includes changes to the business/operations of Mare Mediterranean including a name change to "Sprazzo" and new hours for breakfast, lunch and dinner. In addition, the restaurant will undergo minor, non-substantive changes on the interior;

WHEREAS, The Birmingham City Commission has conducted a public hearing on July 8, 2024, and has reviewed Sprazzo's Special Land Use Permit Amendment application and the standards for such review as set forth in Article 7, section 7.36 of Chapter 126, Zoning, of the City Code;

NOW, THEREFORE, BE IT RESOLVED, The Birmingham City Commission finds the standards imposed under the City Code have been met, subject to the conditions below, and that Sprazzo's application for a Special Land Use Permit Amendment at 115 Willits is hereby approved;

BE IT FURTHER RESOLVED, That the City Commission determines that to ensure continued compliance with Code standards and to protect public health, safety, and welfare, this Special Land Use Permit Amendment is granted subject to the following conditions:

1. Sprazzo shall abide by all provisions of the Birmingham City Code;
2. Sprazzo shall comply with the approved site and design plans and any amendments thereto, and all conditions of approval assigned by the Planning Board and City Commission in 2021; and

3. The Special Land Use Permit may be canceled by the City Commission upon finding after proper notice and a hearing that the continued use is not in the public interest.

BE IT FURTHER RESOLVED, That failure to comply with any of the above conditions shall result in termination of the Special Land Use Permit.

BE IT FURTHER RESOLVED, Except as herein specifically provided, Sprazzo and its heirs, successors, and assigns shall be bound by all ordinances of the City of Birmingham in effect at the time of the issuance of this permit, and as they may be subsequently amended. Failure of Sprazzo to comply with all the ordinances of the City may result in the Commission revoking this Special Land Use Permit.

BE IT FURTHER RESOLVED that Sprazzo is recommended for approval of the transfer of ownership of an existing food and drink establishment serving alcoholic liquors for on premise consumption at 115 Willits from Hospitality Birmingham, LLC to Birmingham Omni Hospitality, LLC, above all others, subject to final inspection.

I, Alexandria Bingham, City Clerk of the City of Birmingham, Michigan, do hereby certify that the foregoing is a true and correct copy of the resolution adopted by the Birmingham City Commission at its regular meeting held on July 8, 2024.

_____

Alexandria Bingham
City Clerk

CONTRACT FOR A SPECIAL LAND USE PERMIT
115 WILLITS – SPRAZZO

This Contract is entered into this____day of_____, 2024 by and between **BIRMINGHAM OMNI HOSPITALITY, LLC**, whose address is 2864 Orenda St., Commerce Township, MI 48382 (hereinafter referred to as "Sprazzo"), **WILLITS RETAIL, LLC**, whose address is 1 Towne Square, Suite 1913, Southfield, MI 48076 (Property Owner), and the **CITY OF BIRMINGHAM**, a Michigan Municipal Corporation, whose address is 151 Martin Street, Birmingham, Michigan 48009 (City).

RECITALS:

WHEREAS, The City Commission granted a Special Land Use Permit, Final Site Plan and Design Review approval for Mare Mediterranean at 115 Willits on July 12, 2021;

WHEREAS, a Special Land Use Permit Amendment Application was filed in May 2024 for approval of the transfer of ownership of an existing food and drink establishment serving alcoholic liquors for on premise consumption at 115 Willits from Hospitality Birmingham, LLC (Mare Mediterranean) to Birmingham Omni Hospitality, LLC (Sprazzo); and,

WHEREAS, the land for which the Special Land Use Permit is sought is located on the south side of Willits between Bates St. and N. Old Woodward; and,

WHEREAS, the land is zoned B4 (Business-Residential) and D4 (Downtown Overlay), which permits alcoholic beverage sales for on premise consumption with a Special Land Use Permit; and,

WHEREAS, Article 7, Section 7.34 of Chapter 126 Zoning requires a Special Land Use Permit to be considered and acted upon by the Birmingham City Commission after reviewing recommendations on the site plan and design from the Planning Board for the proposed Special Land Use; and,

WHEREAS, The Special Land Use Permit Amendment request for the transfer of ownership include changes to the business/operations of Mare Mediterranean including a name change to "Sprazzo" and new hours for breakfast, lunch and dinner. In addition, the restaurant will undergo minor, non-substantive changes on the interior;

WHEREAS, the City of Birmingham Commission is granting a contract to Sprazzo for the approval of the use of an on-premises liquor license, Special Land Use Permit.

NOW, THEREFORE, the parties agree as follows:

1. Sprazzo will utilize a state issued liquor license for use solely at the Property. Any transfer of the aforementioned license from the Property to any other location in the City of Birmingham shall require the approval of the Birmingham City Commission in accordance with Section 10-83 of the City of Birmingham Code of Ordinances. In addition, any expansion of the Property shall also require the approval of the Birmingham City Commission.

2. Sprazzo further acknowledges that it must maintain a Special Land Use Permit for the sale of alcoholic liquors for on premise consumption as required by the Birmingham City Code of Ordinances. It is agreed that Sprazzo shall comply with all provisions of the Special Land Use Permit, or any amendments thereto, as a condition of this contract. Sprazzo further acknowledges and agrees that a violation of any provision of the Special Land Use Permit or the Michigan Liquor Control Code is a violation of the terms of this contract entitling the City to exercise any or all of the remedies provided herein.

3. Sprazzo acknowledges that no modifications to the site plan, floor plan, elevations or operation of the establishment may be made unless approved by the City Commission through a Special Land Use Permit Amendment as required in the Zoning Ordinance. Modifications include, but are not limited to, name changes, ownership changes, remodeling, changes in the number of interior or exterior seats, etc.

4. Sprazzo acknowledges that outdoor dining is permitted with a valid Outdoor Dining License which is applied for and granted annually.

5. Sprazzo agrees that it shall not apply or seek from the Michigan Liquor Control Commission any permit endorsements to its liquor license whether available in the current Michigan Liquor Control Code or in future Michigan Liquor Control Codes, or amendments thereto, without the prior approval of the Birmingham City Commission.

6. Sprazzo further agrees that it shall not seek any change in its license status/class whether such changes are available now in the current Michigan Liquor Control Code or in future Michigan Liquor Control Codes, or amendments thereto, without prior approval of the Birmingham City Commission.

7. Sprazzo agrees that it shall adhere to all Federal, State and Local ordinances currently in effect or as subsequently amended or enacted.

8. Sprazzo agrees that its failure to follow any of the provisions herein may be grounds for the Michigan Liquor Control Commission to suspend, revoke or not renew its liquor license and/or for the Birmingham City Commission to revoke the Special Land Use Permit, either of which would prohibit Sprazzo from operating the establishment. Sprazzo agrees that in addition to the City of Birmingham's right to seek suspension, revocation or non-renewal of its liquor license and/or revocation of the Special Land Use Permit, the City retains any and all rights to enforce this Contract that may be available to it in law or in equity. Sprazzo further agrees that it shall reimburse the City all of its costs and actual attorney fees incurred by the City in seeking the suspension, revocation or non-renewal of its liquor license and revocation of the Special Land Use Permit, as well as enforcing such other rights as may be available at law and/or in equity.

9. To the fullest extent permitted by law, Sprazzo and any entity or person for whom Sprazzo is legally liable, agrees to be responsible for any liability, defend, pay on behalf of, indemnify, and hold harmless the City, its elected and appointed officials, employees and volunteers and others working on behalf of the City against any and all claims, demands, suits, or loss, including all costs connected therewith, including all costs and actual attorney fees, and for any damages which may be asserted, claimed or recovered against or from the City, its elected and appointed officials, employees, volunteers or others working on behalf of the City, by reason

of personal injury, including bodily injury, death and/or property damage, including loss of use thereof, which arises out of or is in any way connected or associated with Sprazzo's operation of an establishment at the Property. Sprazzo is not liable if the act or omission is the City's.

10. In the event Sprazzo fails to reimburse the City the costs and/or attorney fees as required herein, or any part thereof, then said amount could be transferred to the tax roll in accordance with Section 1-14 of the Birmingham City Code as acknowledged by the Property Owner.

11. Any disputes arising under this Contract, not within the jurisdiction of the Michigan Liquor Control Commission, shall be settled either by commencement of a suit in Oakland County Circuit Court or by compulsory arbitration, at the election of the City. If both parties elect to have the dispute resolved by arbitration, it shall be settled pursuant to Chapter 50 of the Revised Judicature Act for the State of Michigan and administered by the American Arbitration Association with one arbitrator being used, or three arbitrators in the event any party's claim exceeds $1,000,000. Each party shall bear its own costs and expenses and an equal share of the arbitrator's and administrative fees of arbitration. Such arbitration shall qualify as statutory arbitration pursuant to MCL §600.5001 et seq., and the Oakland County Circuit Court or any court having jurisdiction shall render judgment upon the award of the arbitrator made pursuant to this Agreement. The laws of the State of Michigan shall govern this Agreement, and the arbitration shall take place in Oakland County, Michigan. In the event that the parties elect not to have the matter in dispute arbitrated, any dispute between the parties may be resolved by the filing of a suit in a federal or state court with jurisdiction over Oakland County, Michigan.

12. This contract shall be governed by and performed, interpreted and enforced in accordance with the laws of the State of Michigan.

13. If any provision of this contract is declared invalid, illegal or unenforceable, such provision shall be severed from this contract and all other provisions shall remain in full force and effect.

14. The City determines that to ensure continued compliance with Code standards and to protect public health, safety, and welfare, this Special Land Use Permit Amendment is granted subject to the following conditions:

a. Sprazzo shall abide by all provisions of the Birmingham City Code;
b. Sprazzo shall comply shall comply with the approved site and design plans and any amendments thereto, and all conditions of approval assigned by the Planning Board and City Commission in 2021; and
c. The Special Land Use Permit may be canceled by the City Commission upon finding after proper notice and a hearing that the continued use is not in the public interest.

15. Failure to comply with any of the above conditions may result in termination of the Special Land Use Permit after Sprazzo has been given notice and a hearing.

16. Except as herein specifically provided, Sprazzo and its heirs, successors, and assigns shall be bound by all ordinances of the City of Birmingham in effect at the time of the issuance

of this permit, and as they may be subsequently amended. Failure of Sprazzo to comply with all the ordinances of the City may result in the Commission revoking this Special Land Use Permit, after notice and a hearing.

17. Sprazzo is recommended for the operation of an establishment serving alcoholic beverages for on premise consumption, above all others, subject to final inspection.

18. This Contract shall be binding upon and apply and inure to the benefit of the parties hereto and their respective successors or assigns. The covenants, conditions, and the agreements herein contained are hereby declared binding on the City and Sprazzo. It is further agreed that there shall be no change, modification, or alteration hereof, except in writing, signed by all of the parties hereto. Neither party shall assign any of the rights under this contract without prior approval, in writing, of the other. Any attempt at assignment without prior written consent shall be void and of no effect.

(This space intentionally left blank)

IN WITNESS WHEREOF, the parties hereby have executed this Contract as of the date set forth above.

BIRMINGHAM OMNI HOSPITALITY, LLC (Sprazzo)

By: _____

Its: Manager

Date: 6/24/2024

STATE OF MICHIGAN)
) ss:
COUNTY OF OAKLAND)

On this 24 day of June, 2024, before me personally appeared Yousif Kakos who acknowledged that with authority on behalf of **BIRMINGHAM OMNI HOSPITALITY, LLC** to do so signed this Agreement.

Marcella Aubry

MARCELLA AUBRY
Notary Public - State of Michigan
County of Macomb
My Commission Expires Apr 5, 2030
Acting in the County of Oakland

WILLITS RETAIL, LLC (Property Owner)
(as to paragraph 10 only)

By: ~~Ryan Coopersmith~~ S. M. Zimmerman

Its: Manager

STATE OF MICHIGAN)
) ss:
COUNTY OF OAKLAND)

On this 24th day of June, 2024, before me personally appeared Bernadette Fletcher, who acknowledged that with authority on behalf of **WILLITS RETAIL, LLC** to do so signed this Agreement.

Bernadette Fletcher

Notary Public
Oakland County, Michigan
Acting in _____ County, Michigan
My commission expires: 5/8/2027

Bernadette Fletcher
NOTARY PUBLIC
COUNTY OF OAKLAND
My Commission Expires
5/8/2027

CITY OF BIRMINGHAM

By: _____
Elaine McLain, Mayor

By: _____
Alexandria D. Bingham, City Clerk

APPROVED:

Jana L. Ecker, City Manager
(Approved as to substance)

Nicholas J. Dupuis, Planning Director
(Approved as to substance)

Mary M. Kucharek, City Attorney
(Approved as to form)

MEMORANDUM

Police Department

DATE: **May 29, 2024**

TO: **Jana L. Ecker, City Manager**

FROM: **Chris Koch, Investigative Captain**

APPROVED: **Scott A. Grewe, Chief of Police**

SUBJECT: **Birmingham Omni Hospitality, LLC doing business as Sprazzo is requesting approval to transfer ownership of a Class C Liquor License from The Hospitality Birmingham, LLC doing business as Mare Mediterranean located at 115 Willits, Birmingham MI.**

INTRODUCTION:

The Police Department received a request from the Law Offices of Mekani, Orow, Mekani, Shallal & Hindo for a transfer of a class C liquor license. Birmingham Omni Hospitality, LLC, which will do business as Sprazzo is requesting approval to transfer ownership which will remain in the same location, of a Class C License from The Hospitality Birmingham, LLC, located at 115 Willits, Birmingham MI. Birmingham Omni Hospitality, LLC is requesting the following permits: Sunday sales (AM/PM) permit, an outdoor service area permit, a dance permit, and an entertainment permit. Birmingham Omni Hospitality, LLC, has paid the initial liquor license application fee of $1,500.00 for a business that serves alcoholic beverages for consumption on the premises per Chapter 1, Section 1-16 (fee schedule) of the Birmingham City Code. Birmingham Omni Hospitality, LLC (Sprazzo) will have two owners as listed below:

Members	Membership
Yousif Kakos	50%
Paulina Faranso	50%

Chapter 10 (Alcoholic Liquors), Section 10-42 of the Birmingham City Code requires that "any and all transfers of a liquor license for consumption of intoxicating liquor on premises require the approval of the City Commission of any kind including, but not limited to ownership of the license; stock in a corporation that owns a license; interest in a license through any entity; or location of the licensed premises."

BACKGROUND:
Yousif Kakos and Paulina Faranso will be equal partners of Birmingham Omni Hospitality, LLC. Sprazzo's proposed hours of operation will be from 07:00 am to 02:00 am Monday through Sunday.

Birmingham Omni Hospitality, LLC will expend $1,300,000.00 for the liquor license, renovation of the space, and the installation of furniture, fixtures, and equipment. Birmingham Omni Hospitality, LLC will continue the lease with the landlord, Willits Retail, LLC C/O Seligman & Associates, Inc. The purchase of the liquor license will be funded solely by Yousif Kakos through his consulting business, (Pure Consulting) and personal accounts.

A background check was conducted on Yousif Kakos and Paulina Faranso using the Law Enforcement Information Network (LEIN), the Court's Law Enforcement Management Information System (CLEMIS), and no negative information was uncovered. Varification of available funds was confirmed. The money was in two accounts with Huntington Bank. One was Pure Consulting and the remainder was in Yousif Kakos's account he shares with his wife (Leah Kakos). I have not received any financial statements from Paulina Faranso and she is not contributing any financial funding toward the $1,300,000.00.

Yousif Kakos also has ownership in Bree Enterprises INC. doing business as Bachelor 1 Tavern. The application for the liquor license with the Michigan Liquor Control Commission (MLCC) is pending at the time of this report.

LEGAL REVIEW:
The City Attorney has no objections.

FISCAL IMPACT:
$1,500.00 liquor license application fee received.

SUSTAINABILITY:
Not-applicable

PUBLIC COMMUNICATIONS:
Not-applicable

SUMMARY:
Birmingham Omni Hospitality, LLC is requesting a transfer of a class C liquor license. Birmingham Omni Hospitality, LLC, will do business as Sprazzo. They're requesting approval to transfer ownership of a Class C License from The Hospitality Birmingham, LLC, located at 115 Willits, Birmingham, MI to Birmingham Omni Hospitality, LLC. Birmingham Omni Hospitality, LLC is requesting the following permits: Sunday sales (AM/PM) permit, an outdoor service area permit, a dance permit, and an entertainment permit. Birmingham Omni Hospitality, LLC submitted the Special Land Use Permit ("SLUP") application required under the Ordinance.

ATTACHMENTS:
Not-applicable

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution to authorize the City Clerk to complete the Local Approval Notice at the request of Birmingham Omni Hospitality, LLC. To approve the request for a transfer of ownership of the Class C liquor license, with Sunday sales, outdoor service area, dance and entertainment permit from The Hospitality Birmingham, LLC located at 115 Willits, MI to Birmingham Omni Hospitality, LLC that will be located at the same address.

Joseph A. Shallal
Neb Mekani
John J. Orow
John N. Hindo
Alexander Shallal
Anthony Shallal

Law Offices Of

MEKANI, OROW, MEKANI, SHALLAL & HINDO, P.C.

A Professional Corporation
255 South Old Woodward Ave
Suite 304
Birmingham, MI 48009
Telephone (248) 223–9830
Facsimile (248) 265-4107
joeshallal@momshlaw.com

Of Counsel
Jane Shallal

Louie E. Mekani
(1971 – 2000)

May 7, 2024

Via Email

Nicholas Dupuis
City of Birmingham, Planning Director
151 Martin Street
Birmingham, Michigan 48009

Re: *SLUP for Birmingham Omni Hospitality, LLC dba Sprazzo*
Located at 115 Willits Street Birmingham, Michigan 48009

Dear Mr. Dupuis,

Please accept this letter as an explanation for the SLUP and change in business ownership, only. The property owner will remain the same as before. The current licensee, Hospitality Birmingham, LLC dba Mare Mediterranean, is selling all its business assets to Birmingham Omni Hospitality, LLC dba Sprazzo. Operationally, Sprazzo would like to open for breakfast, lunch and dinner. The only substantial modification to the premises will be the removal of the pizza oven and counter that is in the center of the restaurant to the kitchen area. They will be replacing the pizza station with seating booths. They will also be removing the wine wall in the front of the restaurant to give the patrons a better view of the streetscape while they are dining. The new applicant is making some nonstructural changes which are shown in red in the attached plans and will need permits for electrical, gas and water lines. The applicant will continue to serve mediterranean cuisine as its menu, similar to the menu of The Mare.

If you have any questions, please feel free to contact my office. Thank you.

Respectfully,
Mekani, Orow, Mekani,
Shallal & Hindo, P.C.

Joseph A. Shallal

Joseph A. Shallal

SPRAZZO MEDITERRANEAN

PRIMI

SAGANAKI SHRIMP — $17
TOMATO SAUCE, FETA CHEESE, WHITE WINE, CALABRESE CHILI

CALAMARI — $14
FRIED SQUID, HUNGARIAN PEPPERS, LEMON BEURRE BLANC SAUCE

ARANCINI — $12
SAFFRON RICE, MOZZARELLA, FONTINA. BREADCRUMBS, EGG

MEATBALLS — $16
BEEF, VEAL AND PORK, TOMATO SAUCE, BREADCRUMBS, EGG

QUESO DE CABRA — $14
GOAT CHEESE, ARABIATA TOMATO SAUCE, CROSTINI

OCTOPUS — $17
GRILLED, YELLOW FAVA BEAN PUREE, ONIONS, CAPERS, WHITE BALSAMIC

BRANZINO CEVICHE — $16
WHITE BEANS, FETA, MICRO CILANTRO, TOMATO, CUCUMBER, CROSTINI

OYSTER ON THE HALF SHELL (6PCS) — $24
SERVED WITH RED WINE VINEGAR MIGNONETTE

INSALADA

GREEK — $14
TOMATO, CUCUMBER, FETA, GREEN PEPPER, ONIONS, KALAMATA OLIVES (VE)

MÀRE ROMAINE — $14
DILL & CAPER DRESSING, MARINATED ANCHOVIES', GARLIC CROUTON

CAPRESE — $15
TOMATO. MOZZARELLA, ARUGULA, BABY ROMAINE, CAESAR-BALSAMIC VINAIGRETTE

ADD GRILLED: CHICKEN BREAST $8 SHRIMP $3 PC. SALMON $12

PASTA

LINGUINE CON VONGOLE — $32
LITTLE NECK CLAMS, GARLIC, WHITE WINE, PARSLEY

LOBSTER ATHENA — MP
SPAGHETTI, WHOLE LOBSTER, LOBSTER FUMET

LINGUINE PESTO CON GAMBERI — $28
SHRIMP, BASIL* PINE NUT PESTO, CREAM

RIGATONI BOLOGNESE — $24
BAKED, BEEF, VEAL, PORK TOMATO SAUCE, PEAS, MOZZARELLA, BREAD CRUMBS

CANNELLONI — $24
PASTA ROLLS FILLED WITH VEAL, CHEESE AND HERBS AND BECHAMEL SAUCE

SPRING TAGLIOLINI — $24
SPECK, MUSHROOMS, PEAS, CREAM SAUCE

SPAGHETTI POMODORO — $20
TOMATO SAUCE (VE, VG), WITH DOLLOP OF WHIPPED RICOTTA, BASIL

"ASK YOUR SERVER ABOUT MENU ITEMS THAT ARE COOKED TO ORDER OR SERVED RAW. CONSUMING RAW OR UNDERCOOKED MEATS, POULTRY, SEAFOOD, SHELLFISH, OR EGGS MAY INCREASE YOUR RISK OF FOOD BORNE ILLNESS." *NUTS (VE) VEGETARIAN (VG) VEGAN

MÀRE E MONTE

SCALLOPS
SEARED, BUTTERNUT SQUASH RISOTTO, PANCETTA, BROWN BUTTER, FRIED SAGE — $38

SALMON
GRILLED, ROASTED CORN ASPARAGUS SUCCOTASH, CREAM CORN PUREE — $32

SEAFOOD PAELLA
SAFFRON RICE, SHRIMP, CLAMS, MUSSELS, SQUID — $32

WAGYU FILET MIGNON 8 OZ
GRILLED, DEMI GLAZE, SERVED WITH WHIPPED POTATO, ASPARAGUS — $68

SCOTTADITO
GRILLED LAMB CHOPS, SERVED WITH SAFFRON RISOTTO, ASPARAGUS — $44

CHICKEN PICCATA
ARTICHOKE, LEMON, WHITE WINE, CAPERS, WITH WHIPPED POTATOES — $28

VEAL MARSALA
SAUTÉED MUSHROOMS. MARSALA WINE, SERVED WITH WHIPPED POTATOES — $34

EGGPLANT PARMESAN
TOMATO SAUCE, ITALIAN BREADCRUMBS, FRESH MOZZARELLA (VE) — $24

VEAL CHOP MILANESE
PAN FRIED IN SEASONED BREADCRUMB WITH ARUGULA, TOMATO, LEMON VINAIGRETTE — $68

WHOLE FISH PER LB: BRANZINO $48- ORATA $46- DOVER SOLE $55
PREPARATION AQUA PAZZA (BAKED IN PARCHMENT, TOMATO, FENNEL, WINE, POTATO)
GRILLED - OR - BAKED UNDER SEA SALT, (ADD $5) SERVED WITH GRILLED VEGETABLES

BRICK OVEN PIZZA 10" & (GLUTEN FREE)

MS. MARGARITA
TOMATO SAUCE, FRESH TOMATOES, FRESH MOZZARELLA, ROMANO, BASIL, (VE) — $20

SALUMI
TOMATO SAUCE, ITALIAN SAUSAGE, PROSCIUTTO COTTO, PEPPERONI, ROMANO, MOZZARELLA, OREGANO — $22

QATTRO FORMAGI
TOMATO BASIL SAUCE, MOZZARELLA, ASIAGO, PARMIGIANO, AND ROMANO — $20

GIARDINO
TOMATO SAUCE, ZUCCHINI, PEPPERS, ONION, MOZZARELLA, EGGPLANT, KALAMATA OLIVES, MUSHROOMS (VE) — $20

CAPRICCIOSA
TOMATO SAUCE, MOZZARELLA, PROSCIUTTO, ARTICHOKE, MUSHROOMS, KALAMATA OLIVES — $22

MÀRE SPECIALE
PROSCIUTTO, ARUGULA, ASIAGO, MOZZARELLA, ROMANO, FONTINA — $22

CONTORNI

GREEK FRIES
FETTA, OLIVES, OREGANO, SALT AND LEMON ZEST — $12

ASPARAGUS
GRILLED — $10

WHIPPED POTATOES
ROASTED GARLIC, WHITE PEPPER, BUTTER AND CREAM — $10

BROCCOLINI
GARLIC AND OLIVE OIL — $12

SAFFRON RISOTTO
SAFFRON, CHICKEN STOCK, PARMESAN CHEESE — $12

"ASK YOUR SERVER ABOUT MENU ITEMS THAT ARE COOKED TO ORDER OR SERVED RAW. CONSUMING RAW OR UNDERCOOKED MEATS, POULTRY, SEAFOOD, SHELLFISH, OR EGGS MAY INCREASE YOUR RISK OF FOOD BORNE ILLNESS." *NUTS (VE) VEGETARIAN (VG) VEGAN

Area
2028 SF

Kitchen:
2028/200 = 10.14 people

1 person/ 24" [booth]
= 176" / 24 = 7 people per booth
4 booths = 28 people

1 person/ 24" [booth]
= 144" / 24 = 6 people per booth
4 booths = 24 people

Area
238 SF
238/15 = 15.8 people

Area
1254 SF

1254/15 = 83.6 people max

1 person/ 24" [booth]
60" / 24" = 2 people for each booth
seat = 12 people

Area
163 SF
163/15 =
10.86
people

1 person per 18"
[fixed seat] = 628"
/18" 34.9 people

Area
460 SF
460/15 =
30.6 people

Standing:
274/5 =
54.8
people

Area
189 SF
189/15 =
12.6 people

Area
278 SF

8A

OCCUPANT LOAD BREAKDOWN:

Plumbing Fixtures per MPC 2018 Table 403.1

Female: *Code: 1 water closet per 75 people*
3 water closets provided = 225 people

Male: *Code: 1 water closet per 75 people*
1 water closet and 2 urinals = 225 people

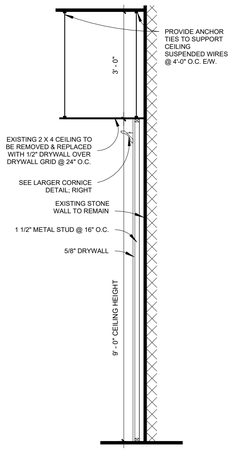
Total Plumbing Fixtures Provided = 225 +225 = 450 people

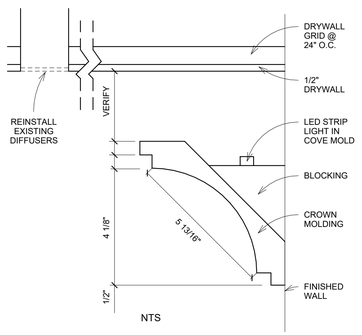
Kitchen: 2028 s.f. / 200 s.f.
Total = 10 people

Seating: *see left for each area breakdown*
Total = 256.3 people

Standing: 274 s.f. / 5 s.f.
Total = 55 people

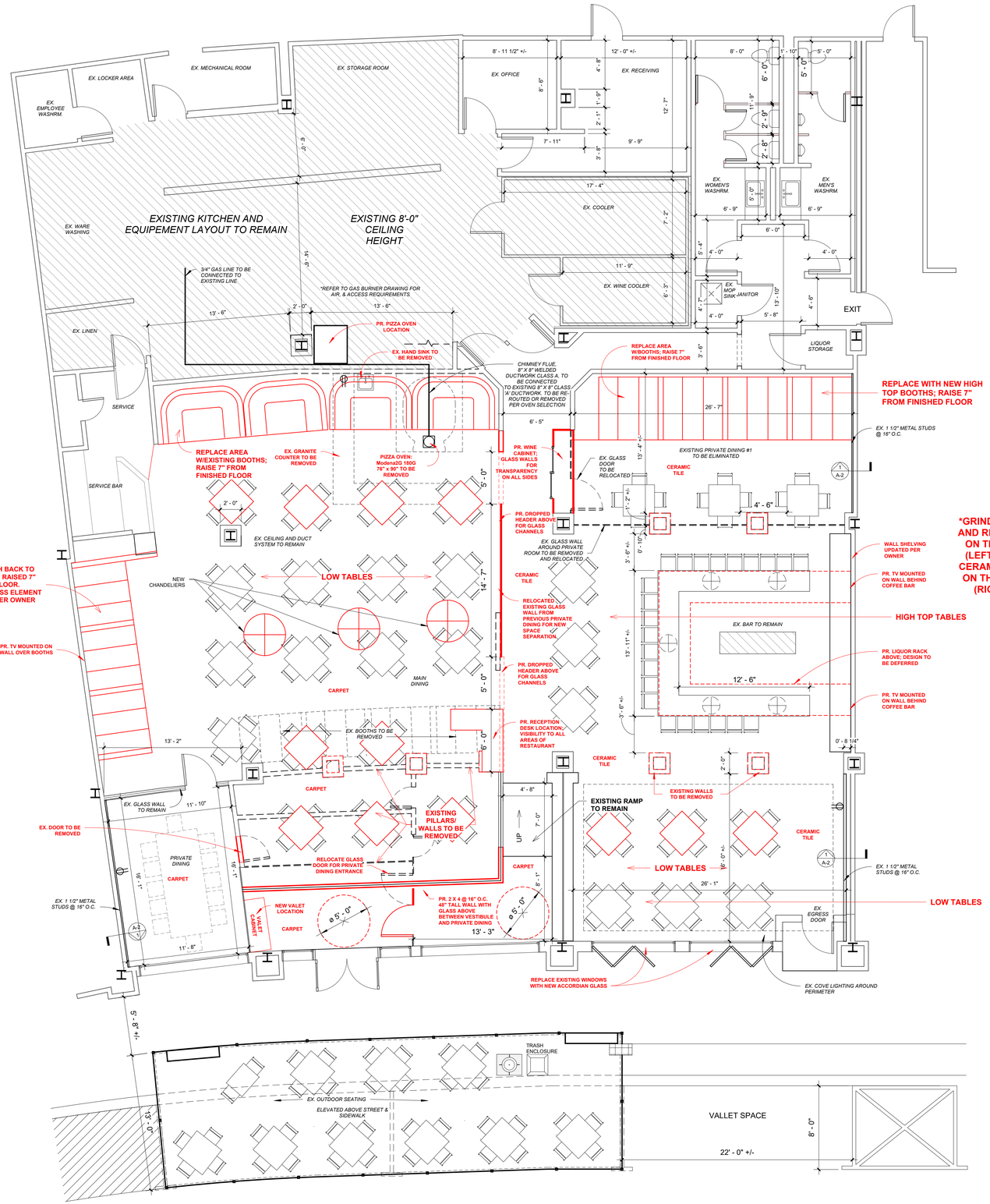
321 allowable occupancy < 450 plumbing fixtures provided





NTS

1 1-STORY WALL SECTION
1/2" = 1'-0"



2 2 - FIRST FLOOR
3/16" = 1'-0"

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CLIENT:
NICK FARANZO AND JOE KAKOS

PROJECT LOCATION:
115 WILLITS STREET, BIRMINGHAM, MI 48009

DATE: MARCH 2021

SCALE: As indicated

FLOOR PLAN

Mauro Engineering
Development & Building Solutions • Civil Engineers • Designers • Planners
48937 HAYES ROAD, SHELBY TOWNSHIP, MI 48315
PH: (586) 247-2800 FAX: (586) 247-2811

3 WORKING DAYS
BEFORE YOU DIG CALL MISS DIG
1-800-482-7171
TOLL FREE FOR THE LOCATION OF UNDERGROUND FACILITIES

PRELIMINARY ■ CONSTRUCTION □ AS-BUILT

Drawn By:	M.M.
Checked By:	S.M.
Approved By:	S.M.

Revisions:	Date:	By:
PER LAYOUT	2024-04-23	M.M.

STATE OF MICHIGAN
SIMONE BIAGIO MAURO
PROFESSIONAL ENGINEER
No. 6201033059
LICENSED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEER SEAL

Job No.
24-029

Sheet No.
A2

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Planning Division

DATE: June 24, 2024

TO: Jana L. Ecker, City Manager

FROM: Nicholas Dupuis, Planning Director

SUBJECT: Public Hearing for 219 Elm St. – All Seasons 2 – Special Land Use Permit Amendment (REQUEST TO POSTPONE*)

---

*On July 2, 2024, the applicant requested to postpone the public hearing for 219 Elm St. Should the City Commission grant the request for postponement, it may be postponed to a date certain or the public hearing could be postponed indefinitely, which would require the applicant to restart the public hearing process. In addition, should the City Commission decide to postpone indefinitely, City staff would recommend that the cost of re-noticing the public hearing be borne by the applicant. The following report was put together for the public hearing and is considered complete.

INTRODUCTION:
The subject site, 219 Elm Street, is located at the north end of the Triangle District in the MU3 (Triangle Overlay) and O2 (Office/Commercial) Zoning Districts. The site is directly adjacent to the existing All Seasons of Birmingham senior living establishment that was completed around 2015. The newly completed development at 219 Elm, also known as All Seasons 2, received Special Land Use and site plan approval in 2021, and was recently granted a Temporary Certificate of Occupancy. The site is currently owned by Maple Elm Development Company II, LLC, which is hereinafter referred to as "All Seasons 2".

At this time, the applicant has submitted a Special Land Use Permit Amendment and Final Site Plan and Design Review application to revise the first-floor layout to include one commercial tenant space. The tenant space would be approximately 1,500 sq. ft. and would transition the middle of three existing ground-floor residential units to commercial. There is no tenant associated with the space at this time, and the transition would include some exterior renovations to create a storefront for the space that more closely aligns with the architectural standards of the Triangle District.

The crux of the issue regarding this proposal are the provisions for additional building height in the Triangle District. The applicant had access to a maximum of 2 additional stories and/or 24 ft. of building height by agreeing to provide two of the requirements for additional building height pursuant to Article 3, Section 3.08 (E) of the Zoning Ordinance. The two selected by the applicant read as follows:

1. A multi-level parking structure that offers parking available to the public at the rate of one parking space available to the public for every 300 square feet of building floor area allowed in the additional stories. Where additional building height is proposed without additional stories, then the parking shall be based upon the building floor area in the top floor. The applicant may provide payment-in-lieu to the City for construction of parking in a public parking deck at an offsite location. Parking rates will be calculated as follows:

    a. The rate of $27,500 per space to match the current cost per above-ground structured parking space in 2018.

    b. Starting July 1st, 2019, the rate of payment per parking space shall be increased by 3 percent each year.

2. Leadership in Energy and Environmental Design (LEED) building design, accredited based upon the rating system of the United States Green Building Council.

At this time, the applicant has provided a payment in lieu of public parking in the amount of $1,418,197, which is being held in an escrow account. Additionally, the applicant is in the process of finalizing their LEED certification and are operating under a Temporary Certificate of Occupancy until LEED certification documents are submitted and reviewed by the City.

At this time, the applicant has indicated a desire to modify the conditions upon which they were granted the additional building height, and wishes to provide the following:

3. A mixed use building that provides residential dwelling units above first-floor commercial where a minimum of 50% of the buildings floor area is residential.

The transition to a mixed use building and this new condition would be at the expense of the payment in lieu of public parking, and if the new proposal were to be approved, the $1,418,197 would be returned to the applicant.

Along with the larger issue of additional building height, the applicant also has some unresolved issues related to the design of the building, specifically related to the first floor glazing and awning design. These issues are detailed at length in the attached Planning Board report and discussed further in the Design Considerations section below.

BACKGROUND:
A complete list of key dates in the original approval history of the project is provided in the table below along with links to access the agendas, minutes and video recording of each associated meeting:

(*this space intentionally left blank*)

Application Type	Approval Date	Documents
Community Impact Study	Planning Board 5/13/20	Agenda – Minutes – Video
Preliminary Site Plan Review	Planning Board 6/10/20	Agenda – Minutes – Video
Final Site Plan & Design Review	Planning Board 12/9/20	Agenda – Minutes – Video
	City Commission 3/8/21	Agenda – Minutes – Video
Special Land Use Permit	Planning Board 1/27/21	Agenda – Minutes – Video
	City Commission 3/8/21	Agenda – Minutes – Video
Building Permit	7/25/22	-
Temporary Certificate of Occupancy	4/4/24	-

On May 22, 2024 (Agenda – Minutes – Video), the Planning Board reviewed a Special Land Use Permit Amendment and Final Site Plan and Design Review application for the changes noted above and recommended DENIAL to the City Commission for both the Special Land Use Permit Amendment and the Final Site Plan and Design Review citing concerns with the size/use of the proposed commercial space. The feedback can be generalized as concerns about the public benefit that the City is receiving in return for providing the applicant two bonus stories and nearly 14,000 sq. ft. of usable, leasable floor space. The Planning Board did not find the scale and the scope of the change to be sufficient and that it does not promote the intent and purpose of the Zoning Ordinance or adopted master plans.

LEGAL REVIEW:
The City attorney has reviewed the request to alter the original agreement. The City attorney objects to the change in condition as the original approval for bonus height was conditioned upon All Season's election of which two items under Article 3, Section 3.08 (E) they wanted to do in order to obtain Planning Board and City Commission approval. The resolution by the City Commission was predicated upon All Seasons' election and promises. The City Attorney thinks the applicant should be held to their agreement, as the City relied upon it when it approved the additional height.

FISCAL IMPACT:
If permitted to modify the conditions upon which they were granted the additional building height from payment-in-lieu of parking to mixed use, the City would be required to return the $1,418,197 that is currently being held in escrow. If said money were to be returned, it would reduce the City's ability to add parking facilities in the Triangle District area that has long been a part of the City's overall goals.

SUSTAINABILITY:
As noted above, the applicant is expected to complete a LEED certification for the building, which will help reduce the overall environmental impact of the building.

DESIGN CONSIDERATIONS:
As noted above, in addition to the issue regarding additional building height, the applicant also has challenges regarding the architectural standards for the Triangle District which are be found in Article 3, Section 3.09 of the Zoning Ordinance. Should the building be permitted to transition to mixed-use, it would trigger the standards in Section 3.09, as the building was formerly entirely residential and these standards did not apply. At this time, the applicant does not meet the glazing requirements for the storefront/ground floor, nor the requirements for awnings. The applicant had

sought a modification of the architectural standards pursuant to Article 3, Section 3.11 of the Zoning Ordinance, but the Planning Board did not grant the required modifications in their recommendation to deny the Special Land Use Permit Amendment application. At the time of this public hearing, the applicant would still require these modifications to be able to develop the property as proposed, or will be required to obtain variances for all ordinances that are not met.

PUBLIC COMMUNICATIONS:
As required for Special Land Use Permit Reviews, a legal ad was placed in a newspaper of local circulation to advertise the public hearing at the City Commission meeting on July 8, 2024. In addition, postcards were sent out to property owners and occupants within 300 feet of the subject site.

SUMMARY:
The applicant requests that the City consider the Special Land Use Permit Amendment and Final Site Plan and Design Review for 219 Elm St. – All Seasons 2 – to revise the first-floor layout to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height.

ATTACHMENTS:
Please see attached the following documents:

- Special Land Use Permit Resolution
- Current Site/Design Plans
- Planning Board Report – May 22, 2024

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution to **APPROVE** the Special Land Use Permit Amendment and Final Site Plan and Design Review application for 219 Elm St. to revise the first-floor layout to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height. In addition, to grant flexibility from the commercial/mixed use architectural requirements of the Triangle Overlay District pursuant to Article 3, Section 3.11 of the Zoning Ordinance for the design of the storefront as proposed.

OR

Make a motion adopting a resolution to **DENY** the Special Land Use Permit Amendment and Final Site Plan and Design Review application for 219 Elm St. to revise the first-floor layout to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height and require the applicant to maintain the previously agreed upon conditions for additional building height.

All Seasons 2
219 Elm St.
Special Land Use Permit Amendment 2024

WHEREAS, The City Commission granted the original Special Land Use Permit, Final Site Plan and Design Review approval for All Seasons 2 at 219 Elm St. on March 8, 2021; and

WHEREAS, Now, a Special Land Use Permit Amendment application was filed in April 2024 to revise the approved floor/site plan at 219 Elm St. – All Seasons 2 – to alter the first-floor layout to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height; and

WHEREAS, The land for which the Special Land Use Permit is sought is located on the east side of Elm St. between Maple and Forest; and

WHEREAS, The land is zoned MU3 (Triangle Overlay) and O2 (Office/Commercial), which permits independent senior living facilities with a Special Land Use Permit; and

WHEREAS, Article 7, section 7.34 of Chapter 126, Zoning requires a Special Land Use Permit to be considered and acted upon by the Birmingham City Commission, after receiving recommendations on the site plan and design from the Planning Board for the proposed Special Land Use; and

WHEREAS, The Planning Board on May 22, 2022 reviewed the Special Land Use Permit Amendment, Final Site Plan and Design Review application to revise the first-floor layout to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height and recommended DENIAL to the City Commission; and

WHEREAS, The Birmingham City Commission has conducted a public hearing on July 8, 2024, and has reviewed the Special Land Use Permit Amendment application for All Season 2 and the standards for such review as set forth in Article 7, section 7.36 of Chapter 126, Zoning, of the City Code.

NOW, THEREFORE, BE IT RESOLVED, The Birmingham City Commission finds the standards imposed under the City Code **HAVE/HAVE NOT** been met, subject to the conditions below, and that the application for a Special Land Use Permit Amendment for All Seasons 2 at 219 Elm St. is hereby **APPROVED/DENIED**;

BE IT FURTHER RESOLVED, That the City Commission determines that to ensure continued compliance with Code standards and to protect public health, safety, and welfare, this Special Land Use Permit Amendment is granted subject to the following conditions:

1. All Seasons 2 shall abide by all provisions of the Birmingham City Code;
2. All Seasons 2 shall comply with the approved site and design plans and any amendments thereto, and all conditions of approval assigned by the Planning Board and City Commission in 2021 and 2024; and

3. The Special Land Use Permit may be canceled by the City Commission upon finding after proper notice and a hearing that the continued use is not in the public interest.

BE IT FURTHER RESOLVED, That failure to comply with any of the above conditions shall result in termination of the Special Land Use Permit.

BE IT FURTHER RESOLVED, Except as herein specifically provided, All Seasons 2 and its heirs, successors, and assigns shall be bound by all ordinances of the City of Birmingham in effect at the time of the issuance of this permit, and as they may be subsequently amended. Failure of All Seasons 2 to comply with all the ordinances of the City may result in the Commission revoking this Special Land Use Permit.

BE FURTHER RESOLVED that All Seasons 2 is recommended for **APPROVAL/DENIAL** of the revisions to the first-floor layout at 219 Elm St. to include one commercial tenant space with associated interior and exterior renovations and to reconsider the conditions for additional building height, above all others, subject to final inspection.

I, Alexandria Bingham, City Clerk of the City of Birmingham, Michigan, do hereby certify that the foregoing is a true and correct copy of the resolution adopted by the Birmingham City Commission at its regular meeting held on July 8, 2024.

_____

Alexandria Bingham
City Clerk

ALL SEASONS OF BIRMINGHAM PH2

MIXED USE BUILDING

BIRMINGHAM, MI

PROJECT DESCRIPTION

CONVERT EXISTING RESIDENTIAL UNIT TO TENANT COMMERCIAL SPACE.

BUILDING CODES

2015 MICHIGAN BUILDING CODE
2015 MICHIGAN REHABILITATION CODE
2021 MICHIGAN MECHANICAL CODE
2021 MICHIGAN PLUMBING CODE
2015 MICHIGAN ENERGY CODE
2023 NATIONAL ELECTRICAL CODE
NFPA 13

BUILDING INFORMATION
EXISTING USE: R2 & U (GARAGES)
PROPOSED USE: MIXED USE
CONSTRUCTION TYPE: (NO CHANGE)
FIRE SPRINKLER SYSTEM: NONE (NO CHANGE)

UNIT INFORMATION
EXISTING USE: R2
PROPOSED USE: B
AREA: ± 1,500 S.F. (NO CHANGE)
FIRE SPRINKLER SYSTEM: NONE (NO CHANGE)

DRAWING INDEX

Sheet Number	Sheet Name
P-2.0	CIVIL SITE PLAN (BY PEA)
1	SITE PLAN - EXISTING CONDITIONS
2	EXISTING SITE PHOTOGRAPHS
3	UNIT 102 COMMERCIAL RETROFIT
4	AWNING & WINDOW DETAILS
5	3D RENDERINGS
6	3D RENDERINGS
7	3D RENDERINGS

1 VICINITY PLAN
1" = 400'-0"

OWNER/APPLICANT/DEVELOPER

Beztak Companies
31731 NORTHWESTERN HWY, SUITE 250W,
FARMINGTON HILLS, MI 48334
CONTACT: SAM BEZNOS
PHONE: (248) 737-6110
EMAIL: SBEZNOS@BEZTAK.COM

CIVIL ENGINEER

PEA, INC.
2430 ROCHESTER CT, SUITE 100
TROY, MI 48083
CONTACT: JOHN B. THOMPSON
PHONE: (248) 689-9090
EMAIL: JTHOMPSON@PEAINC.COM

ARCHITECT

ALEXANDER V. BOGAERTS + ASSOCIATES, P.C.
2445 FRANKLIN ROAD
BLOOMFIELD HILLS, MI 48302
CONTACT: XANDER BOGAERTS
PHONE: (248) 791-5022
EMAIL: XBOGAERTS@BOGAERTS.US

STATE OF MICHIGAN
ALEXANDER V. BOGAERTS II
License No. 1301068935
04-17-24
LICENSED ARCHITECT

Alexander V. Bogaerts + Associates, P.C. ▪ Architecture ▪ Planning ▪ Interior Design
2445 Franklin Road
Bloomfield Hills, MI 48302
248▪334▪5000

SHEET TITLE: TITLE SHEET

CLIENT/ PROJECT: Beztak Companies | All Seasons of Birmingham Ph2 | Birmingham MI

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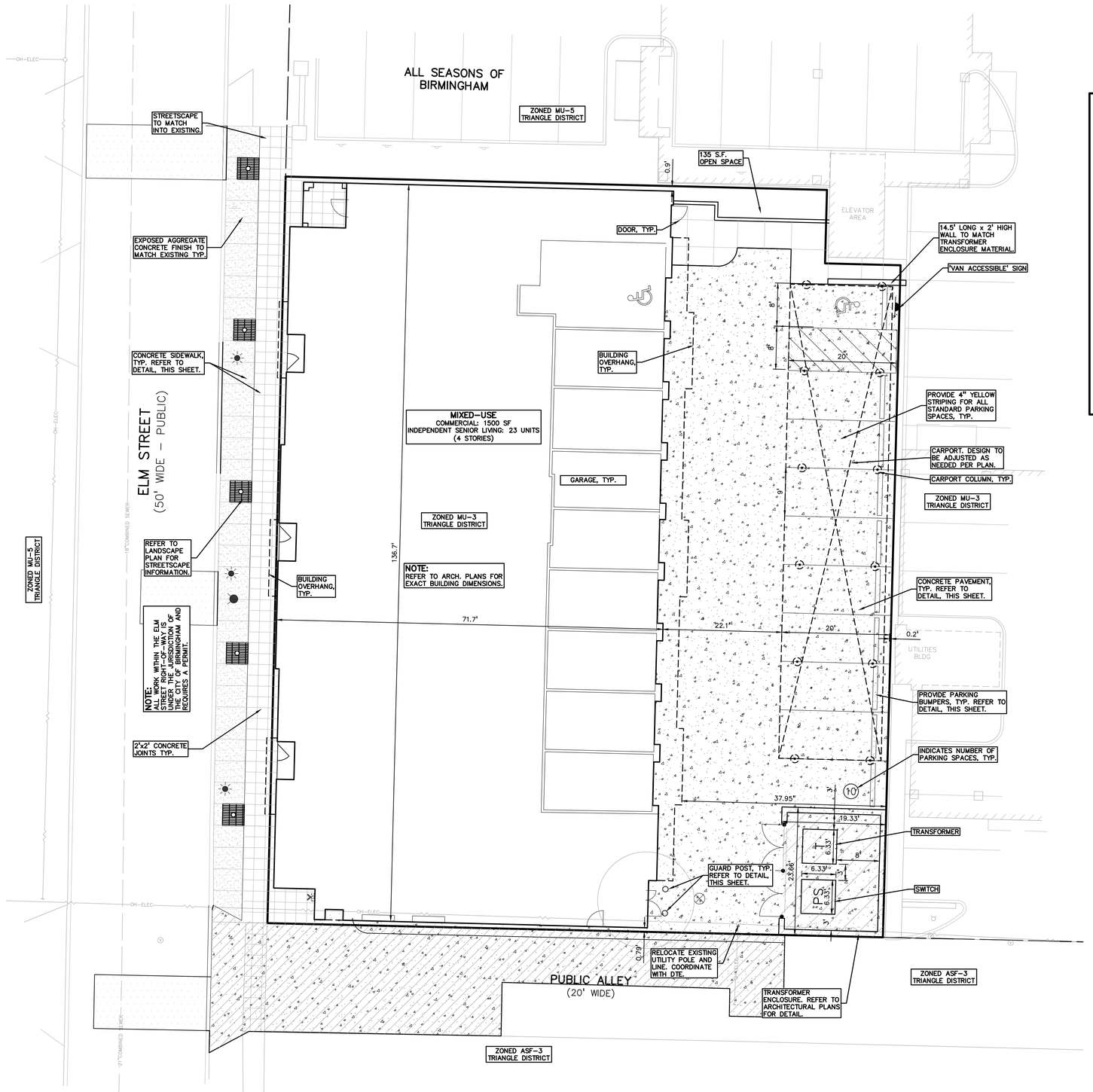
ALEXANDER V. BOGAERTS + ASSOC.

PRELIMINARY 04-19-2024
BIDS 08-27-2021
PERMITS 03-29-2021
CONSTRUCTION 08-27-2021
REVISIONS

DRAWN BY: MM
FILE NAME: BIM 360:///All Seasons Birmingham/All Seasons.rvt
CHECKED BY: MA
JOB NUMBER: 1975
DATE: 04/17/24
SHEET NUMBER: T1

4/17/2024 3:23:52 PM



GRAPHIC SCALE

−10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

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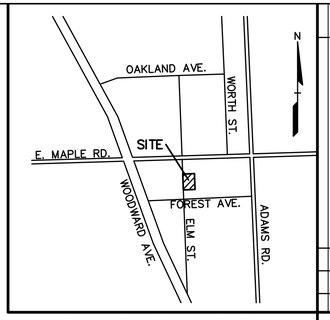
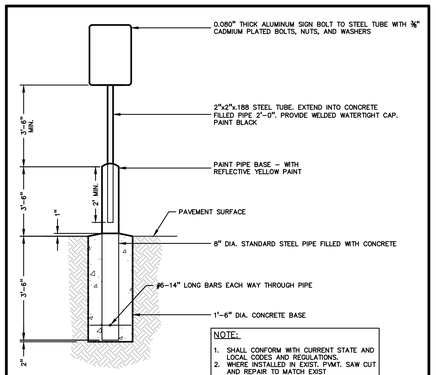


LOCATION MAP – NOT TO SCALE



SIGN AND POST INSTALLATION IN PAVED AREAS
NOT TO SCALE

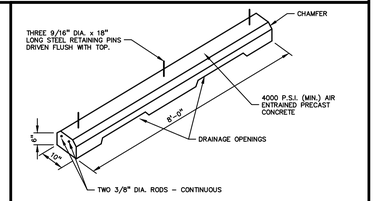
LEGEND

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED

EXISTING	PROPOSED	
-OH-ELEC-		ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
-UG-CATV-		UNDERGROUND CABLE TV, CATV PEDESTAL
-UG-PHONE-		TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
-UG-ELEC-		ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
		GAS MAIN, VALVE & GAS LINE MARKER
		WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE
		SANITARY SEWER, CLEANOUT & MANHOLE
		STORM SEWER, CLEANOUT & MANHOLE
		COMBINED SEWER & MANHOLE
		SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
		POST INDICATOR VALVE
		WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
		MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
		UNIDENTIFIED STRUCTURE
816.06		SPOT ELEVATION
670	671	CONTOUR LINE
		FENCE
		STREET LIGHT
		SIGN
CONC.		CONCRETE
ASPH.		ASPHALT

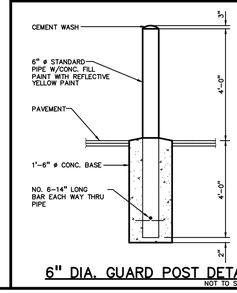
REFERENCE DRAWINGS

FLOOD PLAIN	FEMA F.I.R.M MAP #26125C0537F, DATED 9-29-06
OTHER	"ALTA/NSPS LAND TITLE SURVEY", PEA, JOB NO. 2012-049, DATED 1-4-17
OTHER	"AS-BUILT UTILITY PLAN", PEA JOB NO. 2012-049, DATED 2-12-16

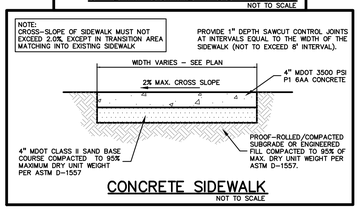


CONCRETE PARKING BUMPER
NOT TO SCALE

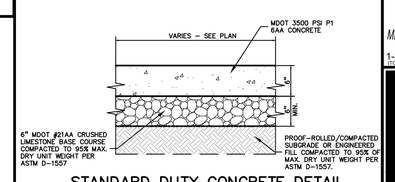
VAN ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE



6" DIA. GUARD POST DETAIL
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



STANDARD DUTY CONCRETE DETAIL
NOT TO SCALE

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

1. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
2. REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
3. REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SITE DATA TABLE:

SITE AREA: 0.36 ACRES (15,646 SQ.FT.) NET AND GROSS

ZONING: MU-3 (TRIANGLE DISTRICT)
PROPOSED USE: MIXED-USE
COMMERCIAL: 1,500 SF
INDEPENDENT SENIOR LIVING: 23 UNITS

BUILDING INFORMATION:
MAXIMUM ALLOWABLE BUILDING HEIGHT = 50 FEET (4 STORIES)
PROPOSED BUILDING HEIGHT = 4 STORY

BUILDING FOOTPRINT AREA = 9,522 SQ.FT.
BUILDING PORCHES AREA = 135 SQ.FT.
TOTAL BUILDING AREA = 9,657

BUILDING LOT COVERAGE = 61.7%

SETBACK REQUIREMENTS:	REQUIRED:	PROPOSED:
FRONT:	0'	0'
SIDE:	0'	0.9'/0.79'
REAR:	0'	37.95'

PARKING CALCULATIONS:
COMMERCIAL ±1,500/300 =5
RESIDENTIAL 23 X 0.5 = 12
TOTAL PARKING REQUIRED = 5+12 = 17 SPACES

TOTAL PROPOSED PARKING SPACES = 19 SPACES INC. 2 H/C SPACES

SITE SOILS INFORMATION:
ACCORDING TO THE USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY FOR OAKLAND COUNTY, THE SITE CONSISTS OF THE FOLLOWING SOIL TYPES:

EtmaaE – UDORTHENTS AND UDIPSAMMENTS, NEARLY LEVEL TO HILLY

IMPERVIOUS AREA:
EXISTING (81.3% SQ.F.)
PROPOSED (98.3% S.F.)

SITE AREAS:

BUILDING FOOTPRINT =	9,657 SQ. FT.
PARKING, DRIVES, AND SIDEWALK =	5,790 SQ. FT.
LANDSCAPE AREAS =	199 SQ. FT.
TOTAL SITE AREA =	15,646 SQ. FT.

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2012\2012049\DWG\12049-TOPOBASE.DWG
XREF: S:\PROJECTS\2012\2012049\DWG\2020STEPLANS\X-BASE-12049.DWG
XREF: S:\PROJECTS\2012\2012049\DWG\2020STEPLANS\X-TBLK-12049.DWG

No.	BY	CHK	DESCRIPTION	DATE
4	VFP	JBT	SUP AMENDMENT, UNIT CONVERSION TO COMMERCIAL	4/13/2021
3	TMK	JBT	ADMIN APPROVAL	3/25/2021
2	TMK	JBT	ADDED CARPORT	2/25/2020
1	TMK	JBT	REVISIONS PER REVIEW DATED DECEMBER 9, 2020	1/20/2020

REVISIONS

STATE OF MICHIGAN
JOHN BRUCE THOMPSON
License No. 6201043289
PROFESSIONAL ENGINEER

CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR LOCATING ALL UTILITIES AND VERIFYING LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

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CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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f: 248.689.1044
www.peainc.com

BEZTAK COMPANIES
31731 NORTHWESTERN HWY, SUITE 250W
FARMINGTON HILLS, MI 48334

PRELIMINARY SITE PLAN
ALL SEASONS OF BIRMINGHAM PH. II
PART OF THE NE 1/4 OF SECTION 36, T. 2N., R. 10E.,
CITY OF BRIMINGHAM, OAKLAND COUNTY, MICHIGAN

DES.	TMK	DN:	TMK	SUR.	KTR	P.M.	JBT

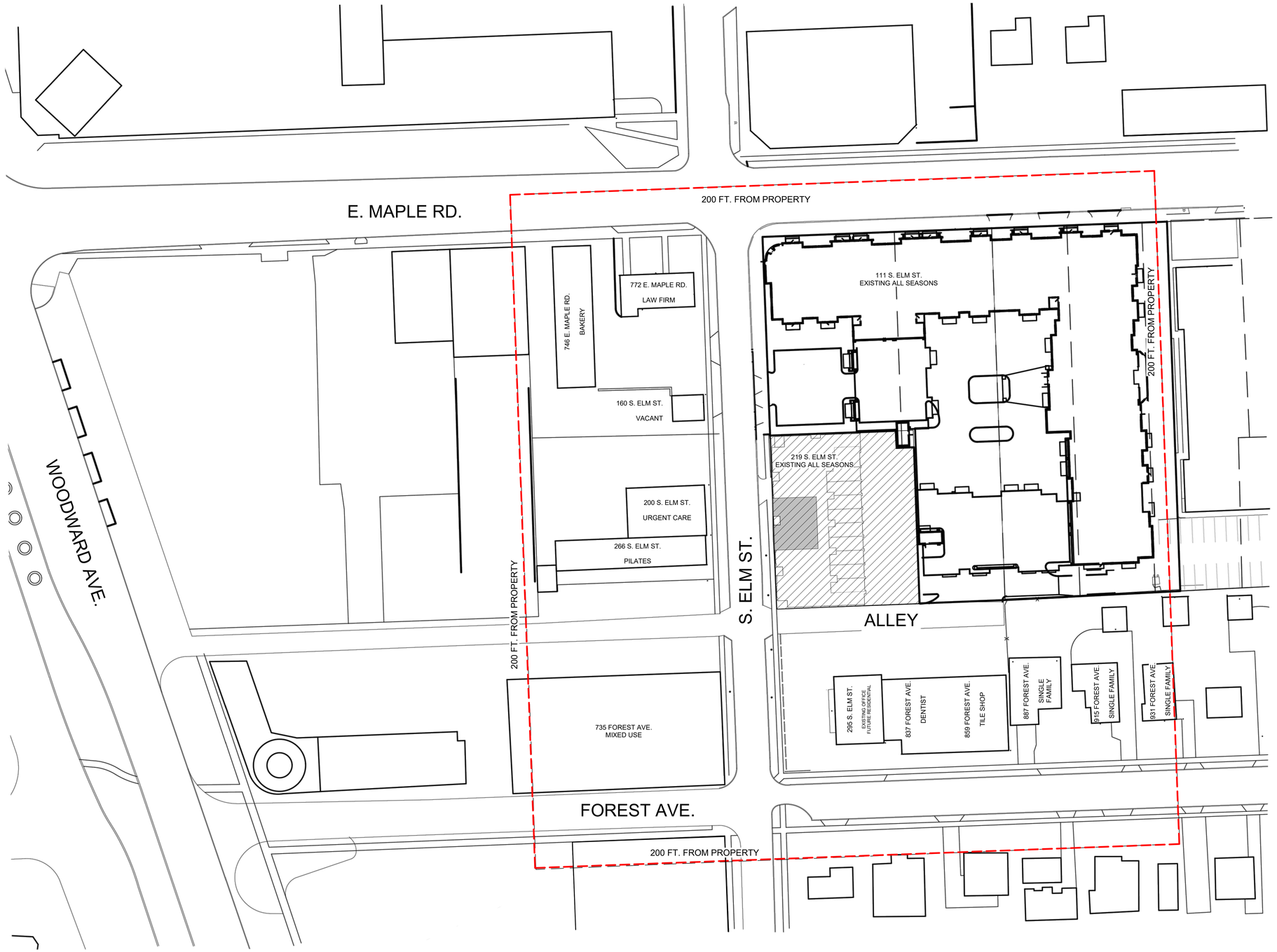
S:\PROJECTS\2012\2012049 ALL SEASONS BRMNGHM-3430\dwg\2020 Site Plans\JB-12049-12049.dwg

ORIGINAL ISSUE DATE:
SEPTEMBER 25, 2020

PEA JOB NO. 2012-049

SCALE: 1" = 10'

DRAWING NUMBER:
P-2.0



1 SITE PLAN
1" = 40'-0"

Alexander V. Bogaerts + Associates, P.C. ▪ Architecture ▪ Planning ▪ Interior Design
2445 Franklin Road
Bloomfield Hills, MI 48302
248▪334▪5000

SHEET TITLE: SITE PLAN - EXISTING CONDITIONS

CLIENT/ PROJECT: Beztak Companies
All Seasons of Birmingham Ph2
Birmingham MI

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- BIDS 08-27-2021
- PERMITS 03-29-2021
- CONSTRUCTION 08-27-2021

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FILE NAME: BIM 360://All Seasons Birmingham/All Seasons.rvt
CHECKED BY: MA
JOB NUMBER: 1975
DATE: 04/17/24
SHEET NUMBER: 1

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Bloomfield Hills, MI 48302
248▪334▪5000

SHEET TITLE
EXISTING SITE PHOTOGRAPHS

CLIENT/ PROJECT
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DATE
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FENESTRATION CALCULATIONS:

4.90.B.1 STOREFRONT WINDOWS

FACADE BETWEEN 1 AND 8 FT ABOVE GRADE =	291 S.F.
REQUIRED STOREFRONT = 291 SF x 70% =	204 S.F.
PROPOSED STOREFRONT =	214 S.F.

4.90.E UPPER STORY WINDOWS

TOTAL FACADE =	2,762 S.F.
MAXIMUM UPPER STORY WINDOWS =	1,381 S.F.
EXISTING UPPER STORY WINDOWS =	642 S.F.

WINDOW SCHEDULE

TYPE	WIDTH	HEIGHT
AA	± 2' - 8"	± 2' - 8"
CC	± 2' - 8"	± 5' - 0"

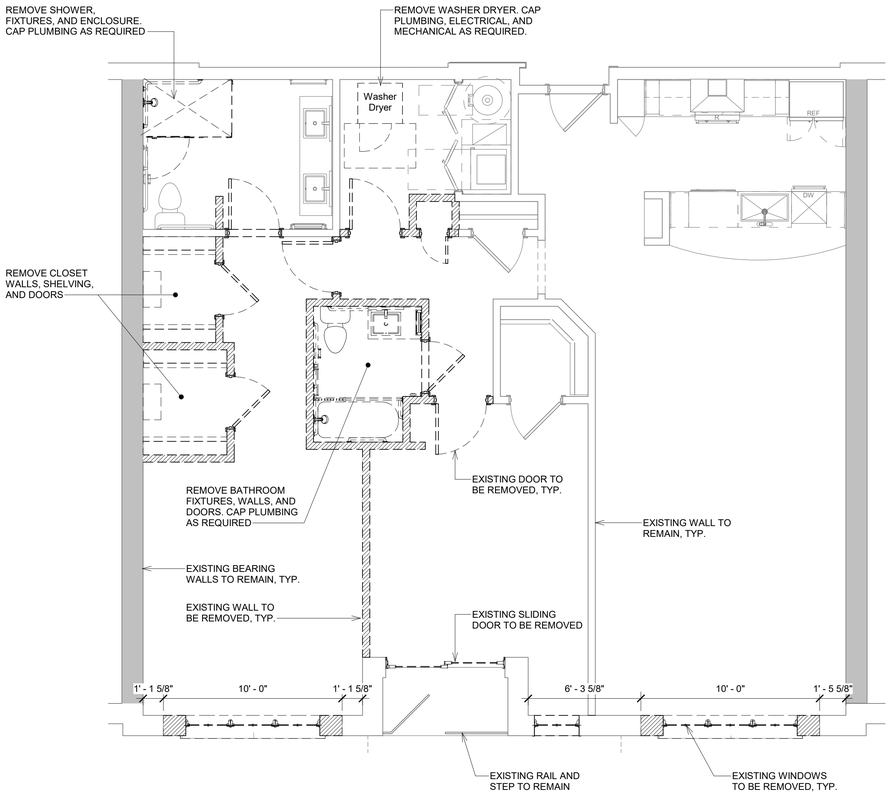
VERIFY IN FIELD EXISTING WINDOW SIZES AND MATCH ADJACENT.

DOOR SCHEDULE

TYPE	Width	Height	Thickness	DOOR FINISH	DOOR MATERIAL	FRAME FINISH	FRAME MATERIAL	GLASS TYPE
102A	3' - 0"	8' - 0"	1 3/8"	STN-X	SCWD/GL	STN-X	PH/WT	GL-2
102B	3' - 0"	8' - 0"	1 3/8"	STN-X	SCWD/GL	STN-X	PH/WT	GL-2
102C	3' - 0"	8' - 0"	1 3/4"	STN-X	SCWD	STN-X	PH/WT	-

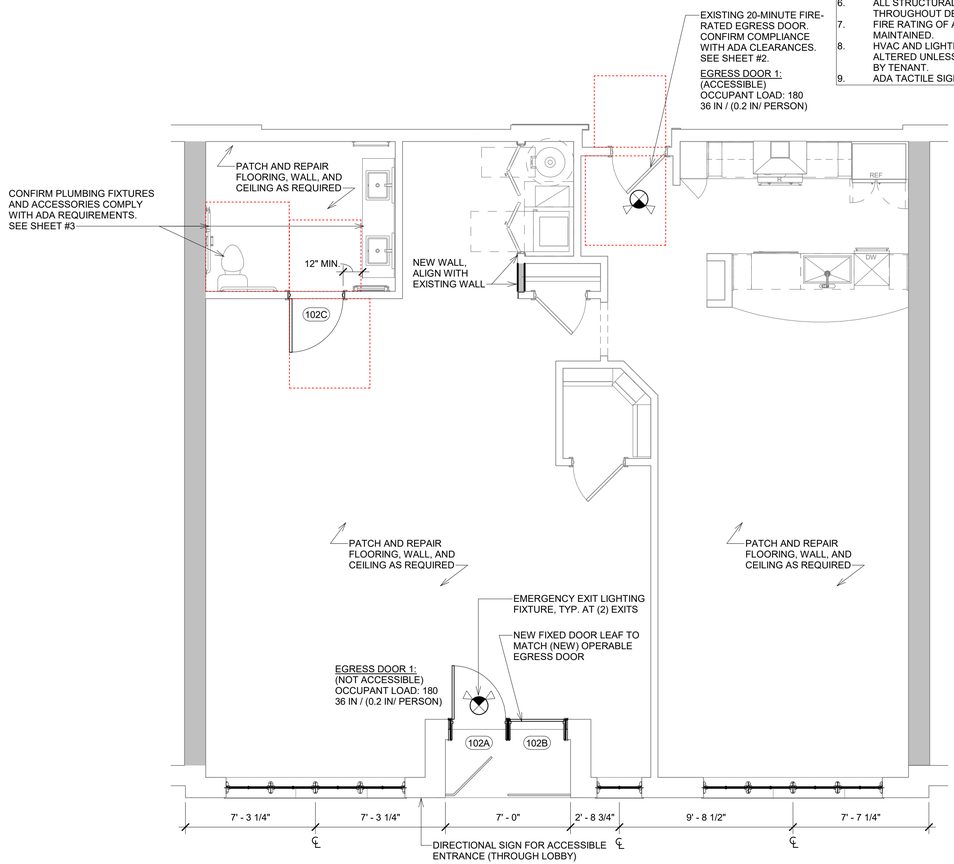
ABBREVIATIONS:
GL-2 - SAFETY GLASS
SCWD - SOLID CORE WOOD DOOR
STN - STAIN W CLEAR COAT
PH - PREHUNG SPLIT JAMB
WT - WOOD TRIM (CASING)

GENERAL NOTES:
1. SEE SHEETS #2 & 3 FOR ACCESSIBLE DETAILS.
2. G.C. IS RESPONSIBLE FOR CLEANING OF JOB-SITE AND REMOVAL OF DEBRIS AND DUST.
3. PATCH AND REPAIR ALL FINISHES AFTER DEMOLITION TO MATCH EXISTING AND ADJACENT FINISHES.
4. G.C. MAY REUSE REUSE ITEMS THAT ARE BEING REMOVED, INCLUDING BUT NOT LIMITED TO FINISHES, DOORS, AND WINDOWS.
5. REMOVE ONLY NON-BEARING CONSTRUCTION AND PARTITIONS. G.C. TO VERIFY NO STRUCTURAL COMPONENTS ARE DESIGNATED FOR REMOVAL OF ANY CONSTRUCTION IN QUESTION OR DEVIATING FROM THE DESIGN INTENT.
6. ALL STRUCTURAL SYSTEMS SHALL BE MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION.
7. FIRE RATING OF ALL IMPACTED WALLS SHALL BE MAINTAINED.
8. HVAC AND LIGHTING SHALL BE MAINTAINED AND NOT ALTERED UNLESS NOTED OTHERWISE. TO BE ADJUSTED BY TENANT.
9. ADA TACTILE SIGNAGE BY OWNER/TENANT AS REQUIRED.



FLOOR PLAN - DEMOLITION

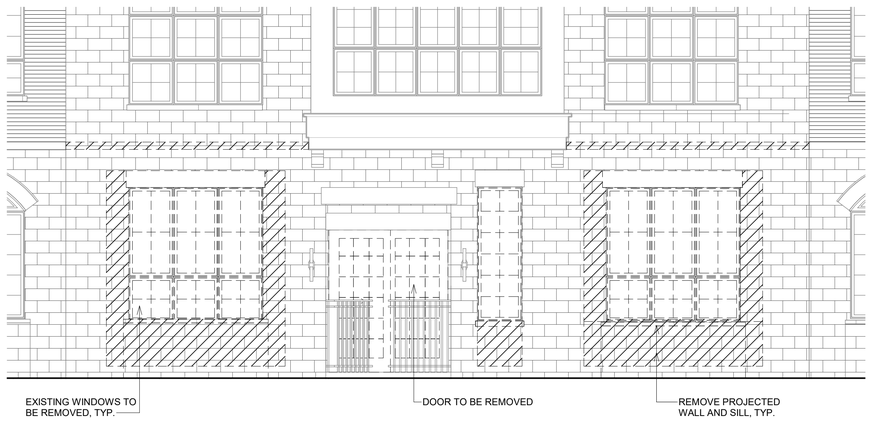
1 / A206 — 1/4" = 1'-0"



FLOOR PLAN - CONSTRUCTION

± 1,500 S.F.

2 / A206 — 1/4" = 1'-0"



EXTERIOR ELEVATION - DEMOLITION

3 — 1/4" = 1'-0"

EXTERIOR ELEVATION - CONSTRUCTION

4 — 1/4" = 1'-0"

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Bloomfield Hills, MI 48302
248 ▪ 334 ▪ 5000

SHEET TITLE: UNIT 102 COMMERCIAL RETROFIT

CLIENT/ PROJECT: Beztak Companies
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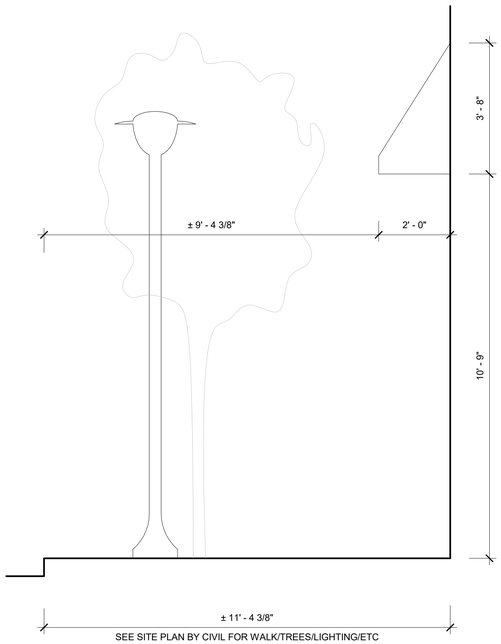

SEE SITE PLAN BY CIVIL FOR WALK/TREES/LIGHTING/ETC

1 AWNING PROFILE
1/2" = 1'-0"

SECTION 10 73 00 METAL AWNINGS AND CANOPIES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Metal Awnings and Canopies of the following types:
1. Traditional Awning

1.2 RELATED SECTIONS

A. Section 05 12 13 - Architecturally-Exposed Structural Steel Framing.
B. Section 05 40 00 - Cold-Formed Metal Framing.

1.3 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
B. Product Data:
1. Manufacturer's data sheets on each product to be used.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Typical installation methods.
C. Verification Samples: One representative units of each type, size, pattern and color.
D. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum ten years documented experience.
B. Installer Qualifications: Company specializing in performing Work of this section with minimum five years documented experience with projects of similar scope and complexity, and approved by Manufacturer.
C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.
D. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support if necessary
1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
3. Retain mock-up during construction as a standard for comparison with completed work.
4. Do not alter or remove mock-up until work is completed or removal is authorized.

1.5 PRE-INSTALLATION CONFERENCE

A. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
B. Protect from damage due to weather, excessive temperature, and construction operations.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions i.e. temperature, humidity, and ventilation within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 WARRANTY

A. Manufacturer's Warranty: Aluminum frames are warranted against defects in workmanship for five years from date of installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Marygrove Awnings, 12700 Merriman Road, Livonia, Michigan 48150; Marygrove.com
B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 METAL AWNINGS AND CANOPIES

A. Performance and Design Requirements:
1. Standards Compliance: Comply with local building codes.
B. Traditional Awning, Basis of Design Marygrove Awnings
1. Material: Extruded aluminum, alloy 6063-T6.
2. Fabrication Method: Welded and mechanically fastened.
3. Slope Surface: Fabric
4. Fabric: Sunbrella Fabric color: Marine Blue #6078-0000
5. Slope: As indicated on Drawings.
6. Frame: Extruded aluminum tube frame.
7. Box Height: per drawings
8. End Finish: Matches slope surfaces.
9. Underside: Open.
10. Width: As indicated on Drawings.
11. Projection: As indicated on Drawings.
12. Frame & fabric awning
13. Finish: AAMA 2603 compliant two-part polyurethane enamel finish or powder coat finish; submit warranty and finish to owner & architect for selection & approval

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly constructed and prepared.
B. Confirm dimensions and elevations.
C. Verify that wall structure can support canopy loads.
D. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.

3.4 FIELD QUALITY CONTROL

A. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

3.5 CLEANING AND PROTECTION

A. Clean products in accordance with the manufacturer's recommendations.
B. Touch-up, repair or replace damaged products before Substantial Completion.

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Burton MI 48529
877-WINDOWS
www.antcliffwindows.com

JW QUICK QUOTE LIVE™

QUOTE BY : John Zizka
SOLD TO :
PO# :
Ship Via : Ground

QUOTE # : JW240400F0W - Version 0
SHIP TO :
PROJECT NAME : BEZTAK
REFERENCE :

U-Factor Weighted Average: 0.28
SHGC Weighted Average: 0.22

LINE / LOCATION / SIZE INFO	BOOK CODE / DESCRIPTION	NET UNIT PRICE	QTY	EXTENDED PRICE
Line 1 Rough Opening : 64 3/4 X 124 3/4 Viewed from Exterior. Scale: 1/2" =1'	Frame Size : 64 X 124 Siteline Standard, Clad Mull Auralast Pine, Casement/Awning Product, Desert Sand Exterior, Interior-Paint Perfect White/M64EXW31123, Nail Fin (Standard), Color Match Metal DripCap, 2 Wide 3 High, 4 9/16 Jamb, 4/4 Thick, Insulated SunStable Tempered Glass, Protective Film, Black Spacer, Argon Filled, Traditional Glz Bd, The selected colors may vary slightly in appearance between their AAMA-2604 and AAMA-2605 versions. Please contact your sales representative to review color samples as needed prior to finalizing order..Mulled Window Assembly Has Not Been Tested To AAMA 450. PEV 2024.1.0.4593/PDV 7.293 (03/03/24)NW	$5,605.12	2	$11,210.24
Line 2 Rough Opening : 64 3/4 X 124 3/4 Viewed from Exterior. Scale: 1/2" =1'	Frame Size : 64 X 124 Siteline Standard, Clad Mull Auralast Pine, Casement/Awning Product, Desert Sand Exterior, Interior-Paint Perfect White/M64EXW31123, Nail Fin (Standard), Color Match Metal DripCap, 2 Wide 3 High, 4 9/16 Jamb, 4/4 Thick, Insulated SunStable Tempered Glass, Protective Film, Black Spacer, Argon Filled, Traditional Glz Bd, The selected colors may vary slightly in appearance between their AAMA-2604 and AAMA-2605 versions. Please contact your sales representative to review color samples as needed prior to finalizing order..Mulled Window Assembly Has Not Been Tested To AAMA 450. PEV 2024.1.0.4593/PDV 7.293 (03/03/24)NW	$5,605.12	2	$11,210.24

LINE / LOCATION / SIZE INFO	BOOK CODE / DESCRIPTION	NET UNIT PRICE	QTY	EXTENDED PRICE
Line 3 Rough Opening : 32 3/4 X 125 1/4 Viewed from Exterior. Scale: 1/2" =1'	Frame Size : 32 X 124 1/2 Siteline Standard, Clad Mull Auralast Pine, Casement/Awning Product, Desert Sand Exterior, Interior-Paint Perfect White/M64EXW31123, Nail Fin (Standard), Color Match Metal DripCap, 1 Wide 3 High, Factory Structural Mull, 4 9/16 Jamb, 4/4 Thick, Insulated SunStable Tempered Glass, Protective Film, Black Spacer, Argon Filled, Traditional Glz Bd, The selected colors may vary slightly in appearance between their AAMA-2604 and AAMA-2605 versions. Please contact your sales representative to review color samples as needed prior to finalizing order..Mulled Window Assembly Has Not Been Tested To AAMA 450. Horizontal Structural Mull 2 Horizontal Spreads, 1/4" High, PEV 2024.1.0.4593/PDV 7.293 (03/03/24)NW	$3,172.10	1	$3,172.10
Line 4 Rough Opening : 72 X 96 Viewed from Exterior. Scale: 1/2" =1'	PRCISW6080 Frame Size : 71 1/4 X 95 1/2 Siteline Clad Auralast Pine, Inswing Door Product, (Single-Swing) Two Panel Door, (Left/Stat), Equal Panel Widths, 4 5/8" Stile, 8 1/4" Bottom Rail, Desert Sand Exterior, Clear Frame, Interior-Paint Perfect White/M64EXW31123, Nail Fin (Standard), Color Match Metal DripCap, 4 9/16 Jamb, HYDROLOCK Sill, Black Sill, Matte Black Hardware, Black/Bronze Strike Plate, Harleston Traditional , Multi Point Bore, Keyed, Adjustable Hinges, Black/Bronze Hinge Insulated SunStable Tempered Glass, Protective Film, Black Spacer, Argon Filled, Traditional Glz Bd, 5/8" Flat GBG Desert Sand Grid, Colonial All Lite(s) 3 wide 6 High, Door No Screen, Door closers should not be used with adjustable hinges. Inswing doors are not intended for Light Commercial applications. IGThick=0.756(1/8 / 1/8),The selected colors may vary slightly in appearance between their AAMA-2604 and AAMA-2605 versions. Please contact your sales representative to review color samples as needed prior to finalizing order.. (Note: Color Tone Of Grille May Vary As A Result Of Glass Option). U-Factor: 0.30, SHGC: 0.19, VLT: 0.33, Energy Rating: 13.00, CR: 60.00, CPD: JEL-N-866-23885-00001 PEV 2024.1.0.4593/PDV 7.293 (03/03/24)NW	$4,173.75	1	$4,173.75

LINE / LOCATION / SIZE INFO	BOOK CODE / DESCRIPTION	NET UNIT PRICE	QTY	EXTENDED PRICE
Line 5	LABOR TO MULL TOGETHER WINDOWS ON SITE, INSTALL PRODUCT INTO NEW OPENING MADE BY OTHERS	$5,437.50	1	$5,437.50

Total:	$35,203.83
Sales Tax (6.0000%):	$1,785.98
Net Total:	$36,989.81
Total Units:	7

AuraLast Protect yourself when you choose JELD-WEN AuraLast pine products backed by a limited lifetime warranty against wood rot and termite damage.

Note: All products are custom-built per customers' specifications and are non-refundable/returnable. Putting a deposit/signature on an order acknowledges that the order is accurate and accepted as is by the customer. All orders are width x height measurements only Product lead times may vary due to manufacturer capacity and capability and do not warrant order discount or cancellation as it is beyond the control of Antcliff Windows. For replacement products, all measurements are the sole responsibility of the installation party. Antcliff does not assume responsibility for any project that is not being installed by Antcliff.

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SHEET TITLE: AWNING & WINDOW DETAILS

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DRAWN BY	MM
FILE NAME	2024 Revised Elevations Birmingham.pkt
CHECKED BY	MA
JOB NUMBER	1975
DATE	04/17/24
SHEET NUMBER	5

REVISIONS

- ☐ CONSTRUCTION
- ☐ PERMITS
- ☐ BIDS
- ■ PRELIMINARY 04-19-2024

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CLIENT/ PROJECT
Beztak Companies
All Seasons of Birmingham Ph2
Birmingham MI

SHEET TITLE
3D RENDERINGS

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PERMITS
03-29-2021

CONSTRUCTION
08-27-2021

REVISIONS

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MM

FILE NAME
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JOB NUMBER
1975

DATE
04/17/24

SHEET NUMBER
6

STATE OF MICHIGAN
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FILE NAME: 2021 Beztak Gateway Birmingham.pln
CHECKED BY: MA
JOB NUMBER: 1975
DATE: 04/17/24
SHEET NUMBER: 7

REVISIONS
- CONSTRUCTION 09-27-2021
- PERMITS 03-24-2021
- BIDS 09-27-2021
- PRELIMINARY 01-18-2021

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SHEET TITLE
3D RENDERINGS

ALEXANDER V. BOGAERTS & ASSOCIATES, P.C.
Architecture
Planning
Interior Design

2445 Franklin Rd.
Bloomfield Hills, MI 48302
248/ 334-5000
fax: 248/ 334-0092

April 11, 2024

Members of the Planning Board
151 Martin Street,
Birmingham, Michigan 48009

Re: 219 Elm Street
Proposed Mixed Use building

Members of the Planning Board,

We are proposing a Mixed-use building for 219 Elm Street.
Our proposed design is consistent with and will promote the intent of the Triangle District ordinance.

<u>We comply with specific Triangle District ordinance design requirements for Mixed-use based on the following design approach:</u>

<u>Qualification requirements for additional height and stories</u>
In order to qualify for 2 additional bonus stories and 24 additional feet to our building we are required to provide 2 of 5 ordinance criteria choices; and the additional stories must be stepped back at a 45-degree angle.

<u>We believe we meet zoning ordinance Section 3.08 E:</u>
3. A Mixed-use building that provides residential dwelling units above first-floor commercial where a minimum of 50% of the buildings floor area is residential.
4. Leadership in Energy and Environmental Design (LEED) building design, accredited based upon the rating system of the United States Green Building Council.

3. We designed and constructed a LEED accredited building.
4. We are proposing a Mixed-use building.

Finally, the building was designed and built with the 4th and 5th floors stepped back at a 45-degree angle.

<u>We are proposing to convert the center of the first floor to a commercial space.</u>
We choose the center of the building…
because it will be a major focal point on the building.

Mixed- use buildings with commercial uses on the first floor and residential uses on the upper floors must incorporate the following key zoning ordinance design requirements:

Provide large areas of store front windows with a primary entry door to the commercial space

Currently the existing center unit has typical residential windows and entry door design, similar to the all of the other residential units.

We significantly increased the glass for the proposed commercial space by creating two large storefront glass areas which will allow views by passing pedestrians and vehicles into the commercial space. We expanded the existing 3 wide widow sections to 4 wide and added lower window units to the 4 sections. We also added a lower window unit to the existing single window section. The ordinance calls for a minimum of 70% glass and door openings ***which we exceed. (see before and after 3D renderings)***

Create a distinct and separated ground floor area

We created a distinct and separated ground floor area by:
adding a projected stone sill to the center of the building that will align with the existing projected stone sills on the adjacent units. In addition to the projected stone still, we added blue fabric awnings above the large storefront windows that match the existing awnings that are currently on the building.

The blue awnings and the projected stone sill ***create a strong visual break*** *separating the ground floor commercial component from the residential units above* ***(see 3D renderings)***

Floor plan revisions

We removed existing walls and a bathroom creating an open floor plan typical to commercial space planning design;
This open floor plan will allow potential commercial tenants to fit out the space to meet their needs.
(see before and after floor plans)

Our building meets the Special Land Use Conditions and Standards as follows:

Our mixed-use building and façade will be compatible with the adjacent neighborhood; the scale of the building and façade detailing are complimentary to the surrounding neighborhood. The Triangle District encourages Mixed-use buildings, which is what we are proposing based on current market conditions. This proposed modification will allow us to meet the current demands for commercial space in this area of the city.

The use will not be injurious to the neighborhood, rather it will add diversity and interest to the visual experience pedestrians have as they walk along Elm; it adds strong complimentary architectural detailing to the overall Elm Street façade. ***Our entire team agrees, it is a definite improvement to the existing Elm Steet façade.***

The building was designed and constructed to meeting all applicable building codes and federal statutes.

<u>The building and site are in a transitional location.</u>

The property is situated on the outer edges of the downtown commercial district with single-family directly to the south/east.
A percentage of commercial space mixed with residential units on the first floor makes sense for this transitional location along Elm Street.

There is definitely a demand for the type of micro commercial space we are proposing. There are compatible small commercial uses in the general vicinity of our building. For example, across the street from the building on the west side of Elm Street are light retail uses and across the alley along Forest Avenue are commercial uses next to single family and other residential buildings.

This type of commercial space can promote activation of the pedestrian streetscape depending on the tenant;
We will attempt to lease to tenants with the goal of activating the streetscape which we understand is a strong desire of the cities Triangle District, however the market will ultimately dictate the tenant. Currently this is not a major commercial area. There are, very few public street parking spots available and there is no large public parking garage in the area to support large retail or commercial tenants.

Because the building was ***designed and built as a LEED building*** it protects the natural environment and conserves natural resources and energy.

Public services and facilities should not be negatively impacted by the conversion of the residential unit to a commercial space. We are able to meet the parking requirements for both the commercial and residential all on site. The commercial space will have less turn over than residential units typically have which will result in less traffic impacts. Typically, Senior housing is more taxing on EMS services than commercial. Finally, the Triangle District was zoned for both of these types of residential and commercial mixed-use components on Elm Street.

We believe our mixed-use building design ***meets the spirit and the intent*** of the Triangle District. We look forward to presenting our project to you at your May Planning Board meeting.

Sincerely
Mark Abanatha

Mark Abanatha
Architect

ALEXANDER V. BOGAERTS & ASSOCIATES, P.C.
Architecture
Planning
Interior Design

2445 Franklin Rd.
Bloomfield Hills, MI 48302
248-334-5000

BEZTAK

All Seasons Phase II Building Material Calculations (for minimum 60% stone/brick/glass)

WALL	STONE/ BRICK/ GLASS		FIBER C. / EIFS / HARDIE		TOTAL
NORTH	3352	78%	938	22%	4290
EAST	4920 *56% N.I. Garage Door	53%	4373	47%	9293
SOUTH	4011	87%	623	13%	4634
WEST	5660	61%	3565	39%	9225

Total Building Average

78 + 53 + 87 + 61 = 279 ÷ 4 = (69.75%)

BIRMINGHAM
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MEMORANDUM

Planning Division

DATE: May 22, 2024

TO: Planning Board Members

FROM: Nicholas Dupuis, Planning Director

SUBJECT: 219 Elm St. – All Seasons 2 – Special Land Use Permit Amendment (SLUP), Final Site Plan & Design Review – Public Hearing

---

The subject site, 219 Elm Street, is located at the north end of the Triangle District in the MU3 (Triangle Overlay) and O2 (Office/Commercial) Zoning Districts. The site is directly adjacent to the existing All Seasons of Birmingham senior living establishment that was completed around 2015. The newly completed development at 219 Elm, also known as All Seasons 2, received Special Land Use and site plan approval in 2021, and was recently granted a Temporary Certificate of Occupancy. A complete list of key dates in the approval history of the project is provided in the table below:

Application Type	Approval Date	Documents
Community Impact Study	Planning Board 5/13/20	Agenda – Minutes
Preliminary Site Plan Review	Planning Board 6/10/20	Agenda – Minutes
Final Site Plan & Design Review	Planning Board 12/9/20	Agenda – Minutes
	City Commission 3/8/21	Agenda – Minutes
Special Land Use Permit	Planning Board 1/27/21	Agenda – Minutes
	City Commission 3/8/21	Agenda – Minutes
Building Permit	7/25/22	-
Temporary Certificate of Occupancy	4/4/24	-

At this time, the applicant has submitted a Special Land Use Permit Amendment, Final Site Plan and Design Review application to revise the first-floor layout to include one commercial tenant space. The tenant space would be approximately 1,500 sq. ft. and would transition the middle of three existing ground-floor residential units to commercial. There is no tenant associated with the space at this time, and the transition would include some exterior renovations to create a storefront for the space that more closely aligns with the architectural standards of the Triangle District.

As required by Article 7, Section 7.37 of the Zoning Ordinance, once a permit for a special land use has been granted as to any parcel of land, no change in that use may be made nor may any addition to or change in the building or improvements on the parcel of land take place until a new request for approval has been filed with the City Commission and the City Commission has approved the request for change. Prior to its consideration of a special land use application for an initial permit or an amendment to a permit, the City Commission shall refer the Site Plan and the design to the Planning Board for its review and recommendation.

1.0 Land Use and Zoning

1.1 Existing Land Use – The existing site is the recently completed 5-story All Seasons 2 independent senior living facility.

1.2 Existing Zoning – O2 (Office-Commercial) & MU3 (Mixed-Use)

1.3 Summary of Adjacent Land Use and Zoning – The following chart summarizes the existing land use and zoning adjacent to and/or in the vicinity of the subject site.

	North	South	East	West
Existing Land Use	Multiple-Family Residential	Office/ Commercial	Multiple-Family Residential	Commercial
Existing Zoning District	O2 (Office/ Commercial)	O1 (Office)	O2 (Office/ Commercial)	O2 (Office/ Commercial)
Overlay Zoning District	MU5 (Mixed-Use)	ASF3 (Attached Single-Family)	MU3 (Mixed-Use)	MU5 (Mixed-Use)

2.0 Setback and Height Requirements

There are no issues with the bulk, area or placement of the proposed addition. The building was approved in 2021 and was built to plan which met all of the requirements.

However, the applicants request does have implications on the additional building height provisions in Article 3, Section 3.08 (E) of the Zoning Ordinance, which state that:

> Buildings or portions of buildings that are 100 feet or more from a single- family residential zoning district may have the additional building height (in number of stories and/or feet of height) noted in Section 3.08B, Section 3.08C, and Section 3.08D where 2 or more of the following are provided as part of the development. Additional stories shall be stepped back at a 45-degree angle from the top story allowed by right without the height bonus.

1. A multi-level parking structure that offers parking available to the public at the rate of one parking space available to the public for every 300 square feet of building floor area allowed in the additional stories. Where additional building height is proposed without additional stories, then the parking shall be based upon the building floor area in the top floor. The applicant may provide payment-in-lieu to the City for construction of parking in a public parking deck at an offsite location. Parking rates will be calculated as follows:
    a. The rate of $27,500 per space to match the current cost per above-ground structured parking space in 2018.
    b. Starting July 1st, 2019, the rate of payment per parking space shall be increased by 3 percent each year.
2. Dedication of an improved public plaza with an area that is at least equal to 25% of the additional floor area of building area allowed in the additional stories. Where additional building height is proposed without additional stories, then public plaza space shall be based upon 25% of the building floor area on the top floor. The location and design of the plaza shall be approved by the Planning Board and shall be in accordance with the Triangle District Urban Design Plan.
3. A mixed-use building that provides residential dwelling units above first-floor commercial where a mini- mum of 50% of the buildings floor area is residential.
4. Leadership in Energy and Environmental Design (LEED) building design, accredited based upon the rating system of the United States Green Building Council.
5. Transfer of development rights for additional floor area that zoning would permit on a site containing an historic building or resource designated under Section 127 of the Birmingham Code. The development rights shall be dedicated through recording a conservation easement on the designated historic resource, which shall be reviewed and approved by the Historic District Commission.

The 2021 approval was granted based on the applicant meeting the parking payment-in-lieu option, as well as the LEED certification option. At this time, the applicant has paid the required fee-in-lieu, and is working towards final LEED certification to furnish to the City. The applicant is now proposing to amend their proposal to provide a mixed-use building instead of providing the payment-in-lieu. Should the applicant be successful in gaining approval, they would still meet the minimum requirements of Section 3.08 (E) and would be able to maintain their current height, which includes two bonus stories.

3.0 Screening and Landscaping

3.1 Dumpster Screening – There are **no changes** proposed to the existing dumpster enclosure as a part of the Special Land Use Permit Amendment, Final Site Plan and Design Review application submitted.

3.2 Parking Lot Screening – There are **no changes** proposed to the existing parking facilities as a part of the Special Land Use Permit Amendment, Final Site Plan and Design Review application submitted.

3.3 Mechanical Equipment Screening – There are **no changes** proposed to the previously approved mechanical screening enclosures on site as a part of the Special Land Use Permit Amendment, Final Site Plan and Design Review application submitted.

3.4 Landscaping – There are **no changes** proposed to most of the previously approved landscaping on site. However, there are minor modifications at the south end that meet the requirements of the Zoning Ordinance.

3.5 Streetscape – There are **no changes** proposed to the streetscape as a part of this Special Land Use Permit Amendment and Final Site Plan/Design Review application.

4.0 Parking, Loading and Circulation

4.1 Parking – Article 4, Section 4.45 of the Zoning Ordinance requires independent senior living complexes to provide 0.5 off-street parking spaces per unit proposed. With the transition of one unit to commercial, the building would now contain 23 units; thus 12 off-street parking spaces are required for the residential portion of the development.

For commercial uses, the Planning Division assumes a standard commercial or office user which requires 1 off-street parking space for each 300 sq. ft. of floor area. The proposed 1,500 sq. ft. commercial tenant space would require 5 off-street parking spaces.

The site currently contains 19 off-street parking spaces, 9 of which are in private garages. The applicant is required to provide 17 off-street parking spaces, thus meeting the requirements for off-street parking.

4.2 Loading – Commercial uses less than 5,000 sq. ft. do not require an off-street loading space. Thus, there are **no changes** proposed to the loading conditions on site.

4.3 Vehicular Circulation and Access – There are **no changes** proposed to the vehicular circulation and access to the site. Vehicles will continue to enter the site from the drive on the south side of the property along Elm.

4.4 Pedestrian Circulation and Access – There are **no changes** proposed to pedestrian circulation and access of the site. The site will retain the existing pedestrian walkways and main pedestrian entrance.

5.0 Lighting

There are no new light fixtures proposed as a part of the Special Land Use Permit Amendment, Final Site Plan and Design Review application submitted.

6.0 Design Review

The majority of the building façade and site are not proposed to change as a part of the Special Land Use Permit Amendment, Final Site Plan and Design Review application submitted.

However, the applicant is proposing some changes to the façade in the area of the proposed commercial space. The changes include new/increased glazing and new awnings. The existing light fixtures, entry doors, gate and façade materials are proposed to remain. The transition to a mixed-use building in the Triangle District does trigger the commercial/mixed use architectural requirements in Article 3, Section 3.09 that previously were not applied to the project, as the building was completely residential, although the standards were still reviewed at the time.

At this time, the applicant meets most of the architectural standard requirements outlined in Section 3.09. The applicant has provided a prominence through the amended façade and increased fenestration, and has provided some architectural detail that lends itself to distinction as a different space than the adjacent residential units as well as a main entrance to the commercial unit. The new façade at the commercial space will exceed the glazing requirements at 73.5%.

Due to the uniqueness of the proposal in having one ground-floor commercial tenant space sandwiched between two ground-floor residential units, the following standards require further review.

- Storefront/Ground Floor. Ground floors shall be designed with storefronts that have windows, doorways and signage, which are integrally designed and painted. No less than 70% of the storefront/ground floor façade between 1 and

8 feet above grade shall be clear glass panels and doorway. Glass areas on storefronts shall be clear glazing on the first floor.

- This standard appears to apply to the entire ground floor façade and not just the single commercial tenant space. Although not provided, the Planning Department is unsure that the ground floor façades glazing calculations would meet this requirement in its entirety.

In addition, the applicant has provided awnings that project 2 ft. into the right-of-way. Removable architectural elements such as awnings, canopies, marquees may be approved by the Planning Board to project into the right of way provided that they are constructed to support applicable loads without any ground mounted supports on public property. Encroachments with less than 15 ft. of clearance above the sidewalk shall not extend into or occupy more than two-thirds of the width of the sidewalk or 5 ft., whichever is less, and must not interfere with any existing or planned streetscape elements or infrastructure. The awning meets these requirements. In addition to projection, the architectural standards of the Triangle District requires that awnings be positioned immediately above the ground floor window area of the façade and have a straight shed that projects from the building at a straight angle *with open sides*. The awnings as designed to not have open sides.

Finally, the architectural standards require that all walls of the building facade exposed to public view from the street, or parking area shall be constructed of not less than 60% brick, stone or glass. The remaining façade may include wood siding or fiber cement siding. Although the applicant has not submitted specific calculations the building does appear to meet this standard.

Overall, the Planning Board may request the specific information required to meet the architectural standards of the Triangle District. Should the Planning Board find the proposal to be satisfactory without such information, modifications to any requirements that the applicant may not meet may be made pursuant to Article 3, Section 3.11 of the Zoning Ordinance which states that:

> The Planning Board may approve deviations to the architectural requirements of Section 3.09 and Section 3.10 in order to allow for creativity and flexibility in design. A front elevation drawing of the proposed building shall be provided superimposed on a color drawing or photograph of the entire block showing the relation of the proposed building design to other buildings along the block, which shall be utilized to evaluate the proposed building design based upon all of the following criteria:

A. Demonstrates innovation in architectural design, provided the building design shall be in keeping with the desired character of the Triangle Overlay District, as articulated in the Triangle District Urban Design Plan.
B. The building is oriented towards the front sidewalk with a functioning entrance and enhances the continuity of the pedestrian oriented environment. A modification shall not result in an increased dominance of vehicular parking or garage doors along the front of the building.
C. The roof design shall not be out of character with other buildings along the block and shall be within the minimum and maximum height requirements of the district.
D. The exterior finish materials shall be of equal or better quality and durability as those permitted herein, with the intent to allow for new technologies in building material while maintaining the desired character of the Triangle Overlay District.
E. Ground floor windows shall be provided along the front sidewalk to maintain the pedestrian orientation of the streetscape and upper story windows shall not be incompatible with the rhythm and proportions of windows on other buildings along the block.

7.0 Required Attachments

	Submitted	Not Submitted	Not Required
Existing Conditions Plan	☒	☐	☐
Detailed and Scaled Site Plan	☒	☐	☐
Certified Land Survey	☒	☐	☐
Interior Floor Plans	☒	☐	☐
Landscape Plan	☒	☐	☐
Photometric Plan	☐	☐	☒
Colored Elevations	☒	☐	☐
Material Specification Sheets	☒	☐	☐
Material Samples	☐	☐	☒
Site & Aerial Photographs	☒	☐	☐

8.0 Approval Criteria

In accordance with Article 7, section 7.27 of the Zoning Ordinance, the proposed plans for development must meet the following conditions:

(1) The location, size and height of the building, walls and fences shall be such that there is adequate landscaped open space so as to provide light, air and access to the persons occupying the structure.

(2) The location, size and height of the building, walls and fences shall be such that there will be no interference with adequate light, air and access to adjacent lands and buildings.
(3) The location, size and height of the building, walls and fences shall be such that they will not hinder the reasonable development of adjoining property nor diminish the value thereof.
(4) The site plan, and its relation to streets, driveways and sidewalks, shall be such as to not interfere with or be hazardous to vehicular and pedestrian traffic.
(5) The proposed development will be compatible with other uses and buildings in the neighborhood and will not be contrary to the spirit and purpose of this chapter.
(6) The location, shape and size of required landscaped open space is such as to provide adequate open space for the benefit of the inhabitants of the building and the surrounding neighborhood.

In addition, Article 7, Section 7.26 requires applications for a Special Land Use Permit to meet the following criteria:

(1) The use is consistent with and will promote the intent and purpose of this Zoning Ordinance.
(2) The use will be compatible with adjacent uses of land, the natural environment, and the capabilities of public services and facilities affected by the land use.
(3) The use is consistent with the public health, safety and welfare of the city.
(4) The use is in compliance with all other requirements of this Zoning Ordinance.
(5) The use will not be injurious to the surrounding neighborhood.
(6) The use is in compliance with state and federal statutes.

9.0 Recommendation

Based on a review of the site plan submitted, the Planning Department recommends that the Planning Board recommend **APPROVAL** of the Special Land Use Amendment and Final Site Plan/Design Review application for 219 Elm St. – All Seasons 2 – subject to the following conditions:

1. The applicant must provide more detail on how the architectural standards of Article 3, Section 3.09 are met; and
2. The applicant must comply with the requests of all City Departments.

10.0 Sample Motion Language (*Final Site Plan & Design Review*)

Motion to recommend for **APPROVAL** the Final Site Plan & Design Review for 219 Elm St. – All Seasons 2 – subject to the following conditions:

1. The applicant must provide more detail on how the architectural standards of Article 3, Section 3.09 are met; and
2. The applicant must comply with the requests of all City Departments.

OR

Motion to **POSTPONE** the Final Site Plan & Design Review for 219 Elm St. – All Seasons 2 – pending receipt of the following:

1. The applicant must provide more detail on how the architectural standards of Article 3, Section 3.09 are met; and
2. The applicant must comply with the requests of all City Departments.

OR

Motion to recommend for **DENIAL** to the City Commission the Final Site Plan & Design Review for 219 Elm St. – All Seasons 2 – for the following reasons:

1. _____
2. _____
3. _____

11.0 Sample Motion Language (*Special Land Use Permit Amendment*)

Motion to recommend for **APPROVAL** to the City Commission the Special Land Use Permit Amendment for 219 Elm St. – All Seasons 2 – subject to the conditions of Final Site Plan & Design Review approval.

OR

Motion to **POSTPONE** the Special Land Use Permit Amendment 219 Elm St. – All Seasons 2 – pending receipt of the following:

1. The; and
2. The applicant must comply with the requests of all City Departments.

OR

Motion to recommend for **DENIAL** to the City Commission the Special Land Use Permit Amendment for 219 Elm St. – All Seasons 2 – for the following reasons:

1. _____

2. _____
3. _____

BIRMINGHAM
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MEMORANDUM

Engineering Department

DATE: June 28, 2024

TO: Jana L. Ecker, City Manager

FROM: Melissa A. Coatta, City Engineer

SUBJECT: N. Adams Road Resurfacing, Contract #12-24(P)
Hearing of Necessity for Sewer and Water Lateral Special Assessment District (SAD)

INTRODUCTION:
Some water and sewer laterals will be replaced as part of the upcoming N. Adams Road Resurfacing Program where a new water main will be installed from Mohegan Street to Putney Street, in addition to spot sewer repairs. The City plans to replace private sewer and water laterals that meet "useful life" criteria within the City's right-of-way (ROW) in an effort to protect public investments.

BACKGROUND:
The north end of Adams Road, from south of Madison Street to the northern City limits, will be resurfaced. At the March 3, 2024, City Commission meeting, a resolution was approved to direct the Engineering Department to proceed with the final design of the N. Adams Road Project from Madison Street to the northern City limits to reduce the existing 4 lanes to 3 lanes, and to investigate installing a sidewalk on the west side of Adams Road.

The existing watermain on this portion of N. Adams Road is 12" diameter, and was installed in 1924. The City has experienced several water main breaks on the 12" diameter water main north of Mohegan Street. The plans call for the replacement of this water main with the same size, 12" diameter from Mohegan Street to Putney Street.

In regards to the sewer, the project plans to separate a portion of the combined sewer at the north end of the project and install new storm sewer to connect to an existing storm sewer. There is a portion of the existing sewer in the center of N. Adams Road near Putney that needs open excavation for a spot repair.

In accordance with the current City policy established to protect the public investment being made with capital improvement projects in the public roadway, the following is proposed:

- Replacement of all sewer laterals near the open excavation of sewer repair that are 50 years of age or older, are less than 6" diameter or are constructed of an unsuitable material. All unsuitable sewer laterals will be replaced with 6" schedule 40 PVC or match existing size if larger than 6".

- Replacement of water services in the area of the water main replacement that are 60 years of age or older, are less than one inch in diameter, or are constructed of an unsuitable material. All unsuitable water services will be replaced with a new 1-inch diameter service, or be replaced to match the existing diameter if greater than 1 inch.

LEGAL REVIEW:
Chapter 94 – Special Assessments of the Birmingham City Code outlines the process by which a special assessment is conducted in the City of Birmingham. This project will follow the prescribed City Code procedures. The City Attorney has no objections.

FISCAL IMPACT:
Revenue generated from the water and sewer lateral SAD for the N. Adams Resurfacing project will defray the cost incurred by the City for the construction of these improvements. The property owners pay one hundred percent (100%) of the cost for laterals within the ROW. This cost can be paid back in either a lump sum or over up to a 5-year period with interest. The interest rate will be confirmed at the Confirmation of the Roll Hearing.

SUSTAINABILITY:
Replacing laterals that do not meet the City's requirements during a construction project will protect the new road from disturbance of either sewer or water lateral replacement. This project will also install a portion of a separate storm that will drain to an existing storm sewer along the west side of N. Adams Road.

DESIGN CONSIDERATIONS:
The previous decision by the City Commission to reduce the road to 3 lanes occurred at the March 4, 2024 City Commission meeting. The feasibility of adding a sidewalk along the west side of the N. Adams Road bridge is currently being researched.

PUBLIC COMMUNICATIONS:
The Clerk's Office distributed the notice of Hearing of Necessity. The Engineering Department sent a letter to all property owners explaining the scope of work with the notice. A property owner's meeting will occur closer to the start of construction.

SUMMARY:
The Engineering Department recommends that the City Commission declare the necessity and approve a Special Assessment District for sewer and water laterals as part of the N. Adams Road Resurfacing Program project. Should the Commission approve the Special Assessment District, a public hearing for Confirmation of the Roll should be set for the City Commission meeting on July 22, 2024.

ATTACHMENTS:
- Map of proposed special assessment district of sewer and water lateral replacement
- N. Adams Road utility plans
- Spreadsheet with estimated cost of lateral replacement
- Clerk's confirmation of the public hearing notice

SUGGESTED COMMISSION ACTION:

WHEREAS, Notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property and lots to be assessed, by first class mail, and by publication in a newspaper generally circulated in the City; and

WHEREAS, The City Commission has conducted a public hearing and has determined it is necessary to proceed with the project replacing sewer services 50 years of age or older or constructed of material that is not acceptable for City standards on N. Adams near the intersection of Putney Street and replacing water services that are 60 years or older or less than 1 inch in diameter on N. Adams Road from Mohegan Street to Putney Street; and

WHEREAS, The City has previously established a policy requiring replacement of sewer services 50 years of age or older or constructed of materials that are not acceptable for City standards and water services less than 1 inch in diameter and the City street is open for repairs; and

WHEREAS, The City Commission, after the public hearing, has determined that the N. Adams Road Project, including the replacement of sewer services that are 50 years of age or older or of material that is not acceptable for City standards, the replacement of water services that are 60 years or older or less than 1 inch in diameter, is a necessity and is in the best interest of the City; and

WHEREAS, The Commission has approved the detailed plans and estimates of cost prepared by the City Engineer; and

WHEREAS, The City Engineer has determined the boundaries of sewer service lateral and water service laterals located within the limits of the following streets shall be installed as part of the N. Adams Road Project (Contract #12-24(P)):

Sewer Lateral – N. Adams Road - Near the intersection of Putney; and
Water Lateral – N. Adams Road – Mohegan Street to Putney Street

WHEREAS, The formula used in making the assessment is 100% of the contractor's charge for replacing the lateral service that is 50 years of age or older or constructed of materials that are not acceptable and water service that is 60 years of age or older or less than 1 inch in diameter within the public right-of-way between the utility and the property line (calculated at the rate of $250.00 per foot of 8" diameter sewer service pipe, $115.00 per foot of 1-inch water service pipe, and $125.00 per foot of 2-inch water service pipe).

THEREFORE LET IT BE RESOLVED, The City Commission has determined that the scope of the public improvement as described is in the best interest of the City and will benefit the properties listed in the assessment roll, and is a necessity, and the City Commission directs the City Manager to prepare a Special Assessment Roll and present the same to the City Commission for confirmation and further set a Public Hearing of Confirmation on July 22, 2024, and give notice of same.

Water and/or Sewer Lateral

Sidwell Number	Street Address	Water SAD Costs	Sewer SAD Costs
19-25-279-017	1001 N ADAMS RD	$857.50	$0.00
19-25-279-018	1013 N ADAMS RD	$857.50	$0.00

19-25-279-019	1025 N ADAMS RD	$857.50	$0.00
19-25-279-020	1037 N ADAMS RD	$857.50	$0.00
19-25-279-021	1049 N ADAMS RD	$857.50	$0.00
19-25-279-022	1051 N ADAMS RD	$857.50	$0.00
19-25-279-023	1063 N ADAMS RD	$857.50	$0.00
19-25-279-024	1075 N ADAMS RD	$857.50	$0.00
19-25-279-025	1087 N ADAMS RD	$857.50	$0.00
19-25-279-026	1099 N ADAMS RD	$857.50	$0.00
20-30-151-001	1100 N ADAMS RD	$0.00	$7,375.00
20-30-151-002	1050 N ADAMS RD	$12,765.00	$7,375.00
20-30-151-007	1109 DERBY RD APT 4	$49.66	$0.00
20-30-151-008	1109 DERBY RD APT 8	$49.66	$0.00
20-30-151-009	1109 DERBY RD APT 3	$49.66	$0.00
20-30-151-010	1109 DERBY RD APT 7	$49.66	$0.00
20-30-151-011	1109 DERBY RD APT 1	$49.66	$0.00
20-30-151-012	1109 DERBY RD APT 5	$49.66	$0.00
20-30-151-013	1109 DERBY RD APT 2	$49.66	$0.00
20-30-151-014	1109 DERBY RD APT 6	$49.66	$0.00
20-30-151-015	1127 DERBY RD APT 4	$49.66	$0.00
20-30-151-016	1127 DERBY RD APT 8	$49.66	$0.00
20-30-151-017	1127 DERBY RD APT 3	$49.66	$0.00
20-30-151-018	1127 DERBY RD APT 7	$49.66	$0.00
20-30-151-019	1127 DERBY RD APT 1	$49.66	$0.00
20-30-151-020	1127 DERBY RD APT 5	$49.66	$0.00
20-30-151-021	1127 DERBY RD APT 2	$49.66	$0.00
20-30-151-022	1127 DERBY RD APT 6	$49.66	$0.00
20-30-151-023	1155 DERBY RD APT 4	$49.66	$0.00
20-30-151-024	1155 DERBY RD APT 8	$49.66	$0.00
20-30-151-025	1155 DERBY RD APT 3	$49.66	$0.00
20-30-151-026	1155 DERBY RD APT 7	$49.66	$0.00
20-30-151-027	1155 DERBY RD APT 1	$49.66	$0.00
20-30-151-028	1155 DERBY RD APT 5	$49.66	$0.00
20-30-151-029	1155 DERBY RD APT 2	$49.66	$0.00
20-30-151-030	1155 DERBY RD APT 6	$49.66	$0.00
20-30-151-031	850 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-032	850 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-033	850 N ADAMS RD APT 2	$49.66	$0.00
20-30-151-034	850 N ADAMS RD APT 6	$49.66	$0.00
20-30-151-035	850 N ADAMS RD APT 4	$49.66	$0.00
20-30-151-036	850 N ADAMS RD APT 8	$49.66	$0.00
20-30-151-037	850 N ADAMS RD APT 3	$49.66	$0.00
20-30-151-038	850 N ADAMS RD APT 7	$49.66	$0.00
20-30-151-039	868 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-040	868 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-041	868 N ADAMS RD APT 2	$49.66	$0.00
20-30-151-042	868 N ADAMS RD APT 6	$49.66	$0.00

20-30-151-043	868 N ADAMS RD APT 4	$49.66	$0.00
20-30-151-044	868 N ADAMS RD APT 8	$49.66	$0.00
20-30-151-045	868 N ADAMS RD APT 3	$49.66	$0.00
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20-30-151-063	1245 DERBY RD APT 1	$49.66	$0.00
20-30-151-064	1245 DERBY RD APT 5	$49.66	$0.00
20-30-151-065	1245 DERBY RD APT 2	$49.66	$0.00
20-30-151-066	1245 DERBY RD APT 6	$49.66	$0.00
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20-30-151-068	1245 DERBY RD APT 8	$49.66	$0.00
20-30-151-069	1245 DERBY RD APT 3	$49.66	$0.00
20-30-151-070	1245 DERBY RD APT 7	$49.66	$0.00
20-30-151-071	880 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-072	880 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-073	880 N ADAMS RD APT 2	$49.66	$0.00
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20-30-151-075	880 N ADAMS RD APT 4	$49.66	$0.00
20-30-151-076	880 N ADAMS RD APT 8	$49.66	$0.00
20-30-151-077	880 N ADAMS RD APT 3	$49.66	$0.00
20-30-151-078	880 N ADAMS RD APT 7	$49.66	$0.00
20-30-151-079	898 N ADAMS RD APT 1	$49.66	$0.00
20-30-151-080	898 N ADAMS RD APT 5	$49.66	$0.00
20-30-151-081	898 N ADAMS RD APT 2	$49.66	$0.00
20-30-151-082	898 N ADAMS RD APT 6	$49.66	$0.00
20-30-151-083	898 N ADAMS RD APT 4	$49.66	$0.00
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20-30-151-088	946 N ADAMS RD APT 8	$782.38	$0.00

20-30-151-089	946 N ADAMS RD APT 3	$782.38	$0.00
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20-30-151-096	928 N ADAMS RD APT 8	$782.38	$0.00
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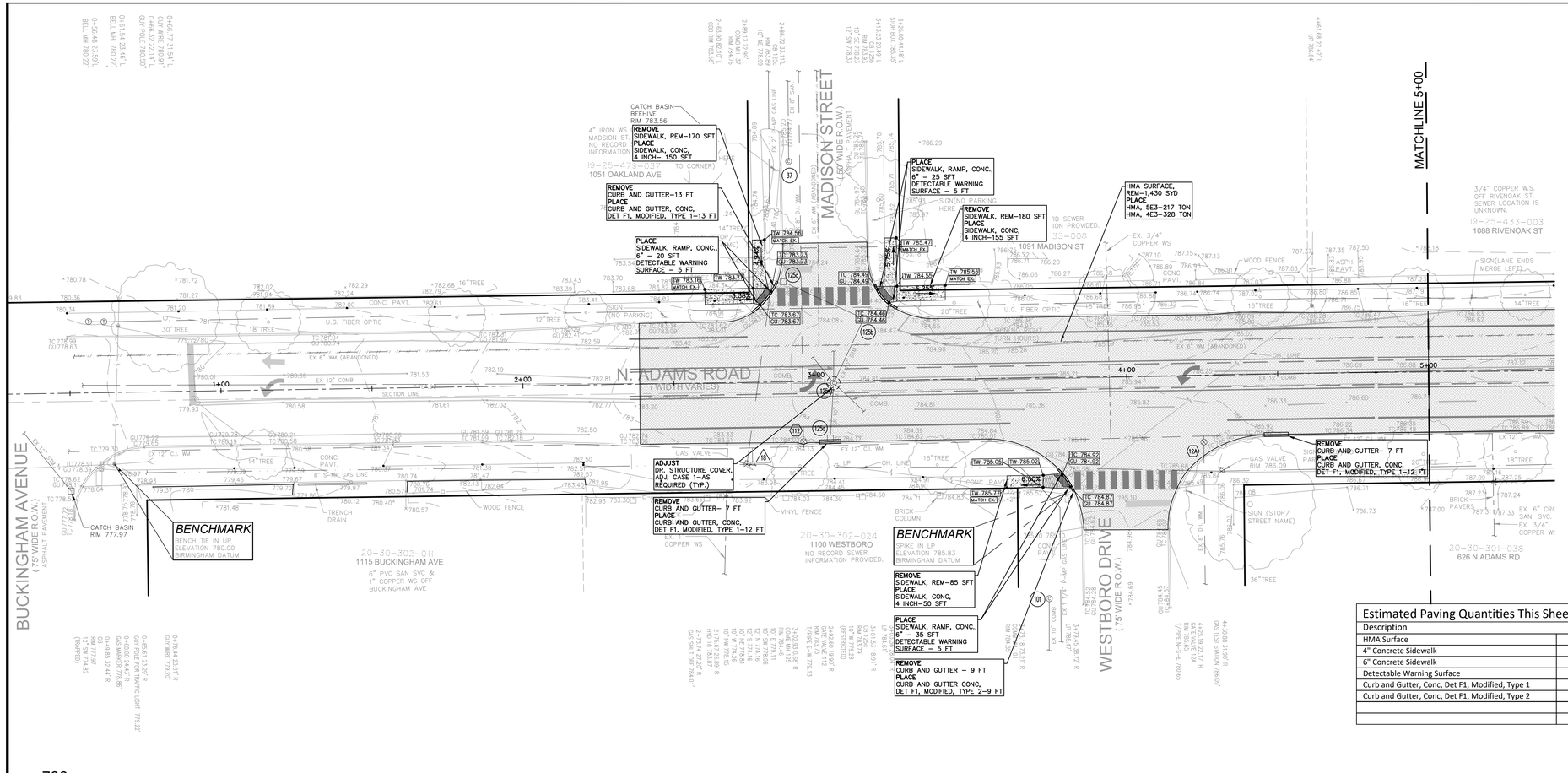
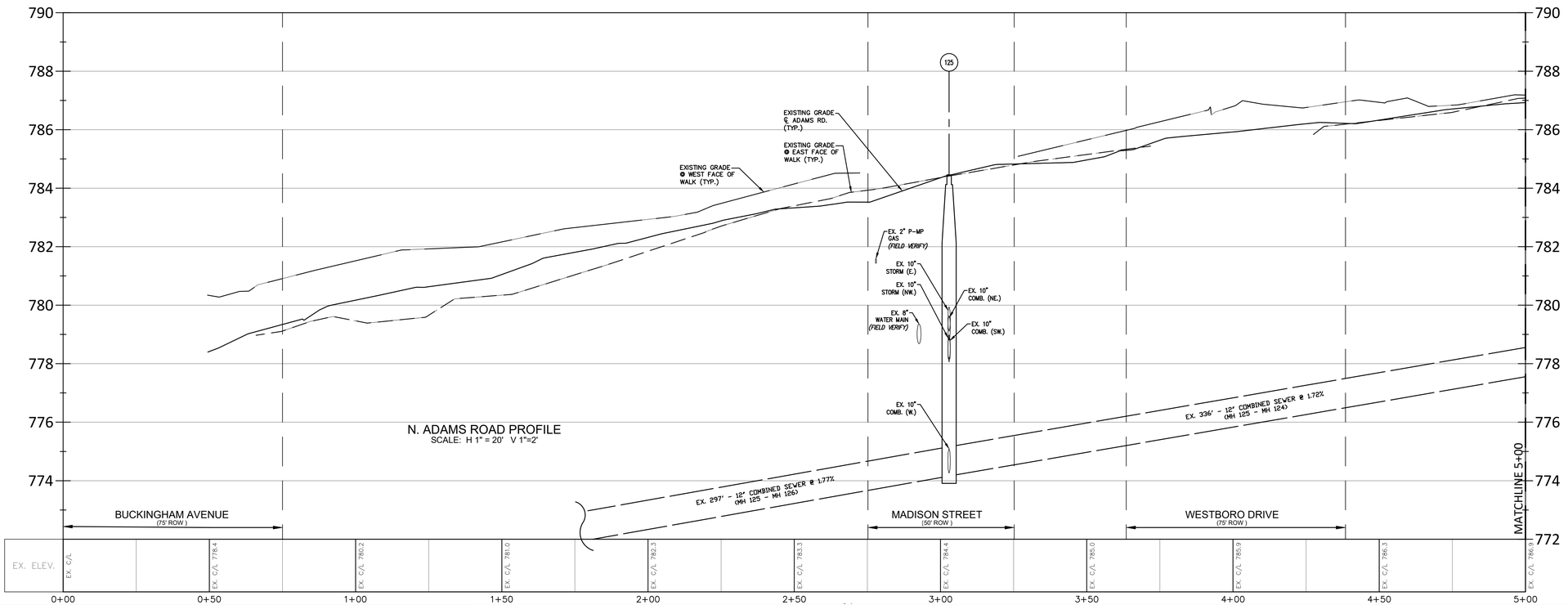
20-30-151-126	982 N ADAMS RD APT 7	$782.38	$0.00
20-30-151-127	900 N ADAMS RD	$782.38	$0.00

N. Adams Resurfacing Project Area

Properties Within Sewer and Water Lateral SAD





Estimated Paving Quantities This Sheet

Description	Quantity	Unit
HMA Surface	1,430	SYD
4" Concrete Sidewalk	355	SFT
6" Concrete Sidewalk	80	SFT
Detectable Warning Surface	15	FT
Curb and Gutter, Conc, Det F1, Modified, Type 1	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 2	-	EA
		EA
		EA

SEWER STRUCTURE SCHEDULE

(37) **MAINTAIN**
2+89.17 72.99' L
COMB MH 37
RIM 784.76

(101) **MAINTAIN**
3+73.18 73.21' R
COMB MH 101
RIM 784.85

(125) **ADJUST**
3+02.93 0.68' R
COMB MH 125
RIM 784.46
PR. RIM XXX.XX
10" E 779.11
10" SW 778.06
12" N 774.16
12" S 774.16
10" NE 778.81
10" W 774.26
10" NW 778.15

STORM STRUCTURE SCHEDULE

(125) **MAINTAIN**
3+02.93 0.68' R
COMB MH 125
RIM 784.46
PR. RIM XXX.XX
10" E 779.11
10" SW 778.06
12" N 774.16
12" S 774.16
10" NE 778.81
10" W 774.26
10" NW 778.15

(125a) **ADJUST**
3+01.53 18.91' R
CB 125a
RIM 783.70
PR. RIM XXX.XX
10" W 779.29
(RESTRICTED)

(125b) **ADJUST**
3+13.23 20.49' L
CB 125b
RIM 783.93
PR. RIM XXX.XX
10" SE 778.23
12" SW 778.33

(125c) **MAINTAIN**
2+86.72 33.11' L
CB 125c
RIM 783.89
10" NE 778.99

WATER MAIN SCHEDULE

(18) **MAINTAIN**
2+75.67 26.89' R
HYD 18 783.87

(112) **MAINTAIN**
2+92.60 19.90' R
GATE VALVE 112
RIM 783.73
T/PIPE E-W 779.13

(126) **MAINTAIN**
4+25.19 22.17' R
GATE VALVE 12A
RIM 785.65
T/PIPE N-S-E 780.65

UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- EX. CONC. PAVT.
- EX. ASPH. PAVT.
- PR. 6" CONC. SIDEWALK/RAMP
- PR. 4" CONC. SIDEWALK
- PR. CURB & GUTTER REPAIRS

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NFE-ENGR.COM

SEAL

PROJECT
City of Birmingham
Adams Road Paving Project
Contract #12-24(P)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the East 1/2 of Section 25, T.2N, R10E and the West 1/2 of Section 30, T.2N, R.11E
City of Birmingham, Oakland County, Michigan

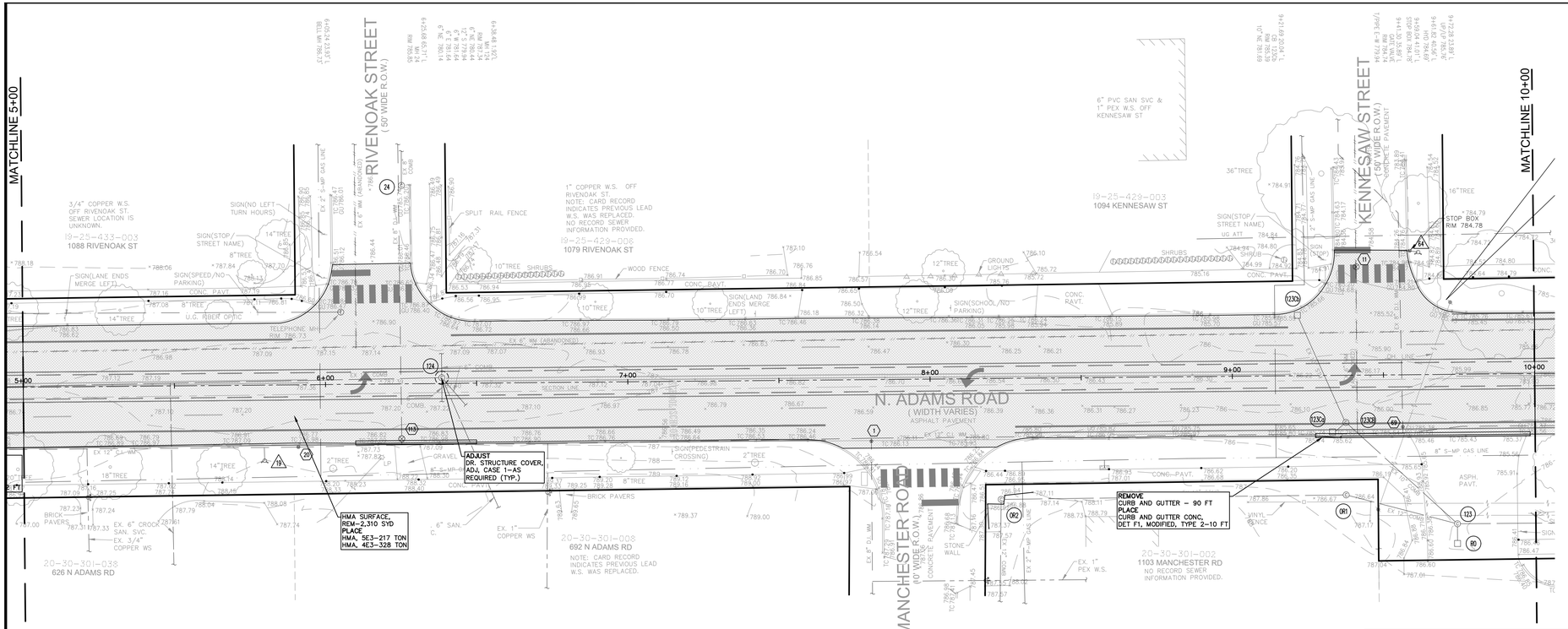
SHEET
Paving & Utility Plan - N. Adams Road Sta. P.O.B. to 5+00

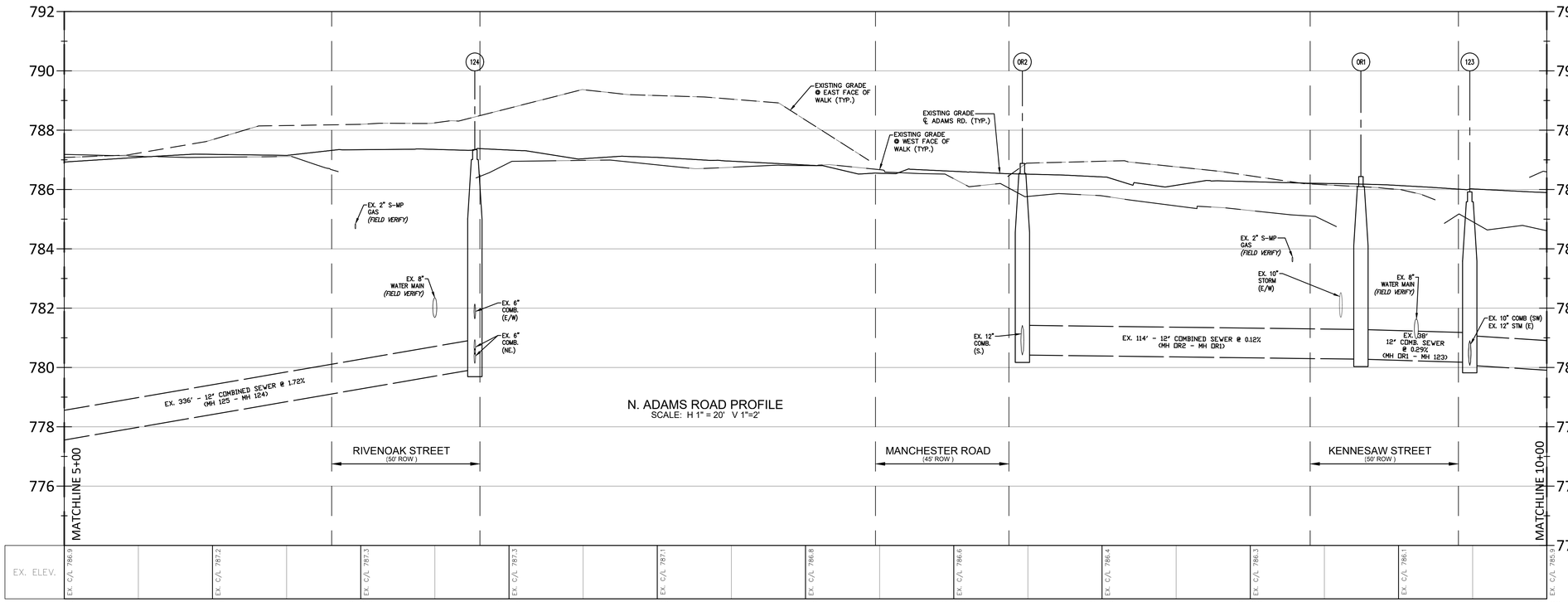
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
6-28-2024	75% PLAN

DRAWN BY:
D. McConkey
DESIGNED BY:
APPROVED BY:
B. Buchholz
EMAIL CONTACT:
bbuchholz@nfe-engr.com
DATE:
-
SCALE: 1" = 20' / 1"=2'
20 10 0 10 20 30

NFE JOB NO. N788
SHEET NO. C01





Estimated Paving Quantities This Sheet

Description	Quantity	Unit
HMA Surface	-	SYD
4" Concrete Sidewalk	-	SFT
6" Concrete Sidewalk	-	SFT
Detectable Warning Surface	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 1	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 2	-	EA
	-	EA
	-	EA

SEWER STRUCTURE SCHEDULE

- 24 — **MAINTAIN** 6+25.68 65.71' L, MH 24, RIM 785.85
- 124 — **ADJUST** 6+38.48 1.92' L, MH 124, RIM 787.34, **PR. RIM XXX.XX**, 6" NE 780.44, 12" S 779.94, 6" W 781.64, 6" E 781.64, 6" NE 780.14
- OC2 — **MAINTAIN** 8+23.16 40.06' R, COMB. MH OR2, RIM 786.88, 12" N/E 780.42 (CALCULATED)
- OC1 — **MAINTAIN** 9+37.31 39.61' R, COMB. MH OR1, RIM 786.43, 12" N/S 780.28 (CALCULATED)
- 123 — **MAINTAIN** 9+74.04 49.50' R, COMB. MH 123, RIM 785.92, 12" E 780.07, 10" SW 780.07, 12" SW 780.17, 12" N 780.07
- 123C2 — **ADJUST** 09+37.45 15.60' R, COMB. MH 123CB, REC—NOT SHOT

STORM STRUCTURE SCHEDULE

- 123C2 — **ADJUST** 9+32.97 18.73'R, CB 123C2, RIM 785.41, **PR. RIM XXX.XX**, 10" NW 782.51
- 123C3 — **ADJUST** 9+21.69 20.04 ° L, CB 123C3, RIM 785.39, **PR. RIM XXX.XX**, 10" NE 781.69
- R0 — **MAINTAIN** 9+74.02 56.01' R, CB R0, RIM 785.85, 12" W 780.30

WATER MAIN SCHEDULE

- 19 — **MAINTAIN** 5+79.64 24.99' R, HYD 19 788.02
- 64 — **MAINTAIN** 9+61.82 40.56' L, HYD 784.69'
- 113 — **MAINTAIN** 6+25.05 18.20' R, GATE VALVE 113, RIM 786.77, T/PIPE E-W 783.32
- 1 — **MAINTAIN** 7+80.39 20.41' R, GATE VALVE 1, RIM 786.24
- 69 — **MAINTAIN** 9+56.25 17.22' R, STOP BOX 785.26'
- 11 — **MAINTAIN** 9+41.30 35.89' L, GATE VALVE, RIM 784.74, T/PIPE E-W 779.94

UTILITY NOTE

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MISS DIG / UTILITY DISCLAIMER NOTE

A MISS DIG TICKET NUMBER 2023090502760, PURSUANT TO MICHIGAN PUBLIC ACT 174 WAS ENTERED FOR THE SURVEYED PROPERTY. DUE TO THE EXTENDED REPORTING PERIOD FOR UNDERGROUND FACILITY OWNERS TO PROVIDE THEIR RECORDS, THE SURVEY MAY NOT REFLECT ALL THE UTILITIES AT THE TIME THE SURVEY WAS ISSUED ON 01/16/24. THE SURVEY ONLY REFLECTS THOSE UTILITIES WHICH COULD BE OBSERVED BY THE SURVEYOR IN THE FIELD OR AS DEPICTED BY THE UTILITY COMPANY RECORDS FURNISH PRIOR TO THE DATE THIS SURVEY WAS ISSUED. THE **CLIENT AND/OR THEIR AUTHORIZED AGENT SHALL VERIFY WITH THE FACILITY OWNERS AND/OR THEIR AUTHORIZED AGENTS, THE COMPLETENESS AND EXACTNESS OF THE UTILITIES LOCATION.**

TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- EX. CONC. PAVT.
- EX. ASPH. PAVT.
- PR. 6" CONC. SIDEWALK/RAMP
- PR. 4" CONC. SIDEWALK
- PR. CURB & GUTTER REPAIRS

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46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
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SEAL

PROJECT
City of Birmingham
Adams Road Paving Project
Contract #12-24(P)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the East 1/2 of Section 25, T.2N, R10E and the West 1/2 of Section 30, T.2N, R.11E
City of Birmingham, Oakland County, Michigan

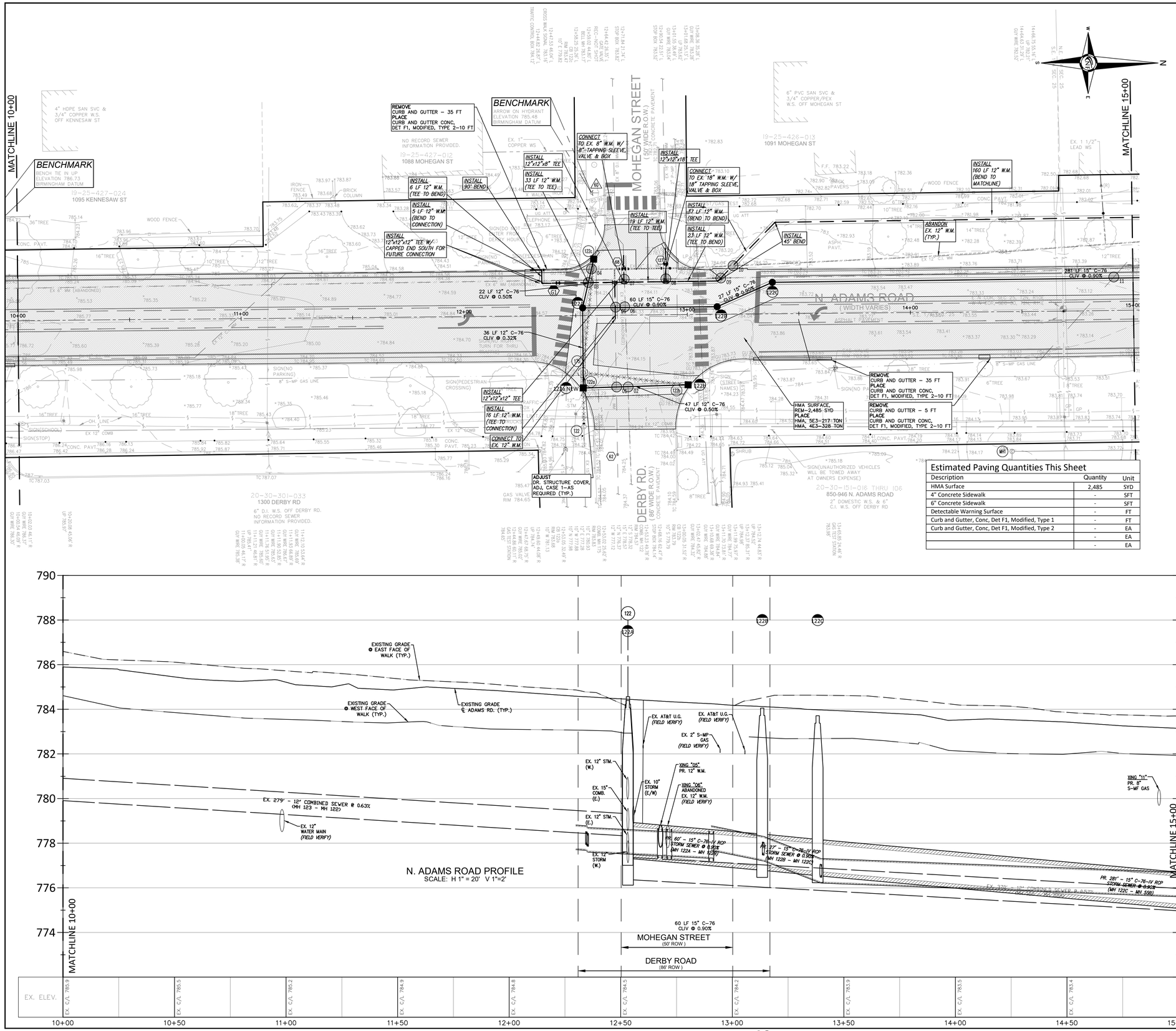
SHEET
Paving & Utility Plan - N. Adams Road Sta. 5+00 to 10+00

Know what's below Call before you dig.

DATE	ISSUED/REVISED
6-28-2024	75% PLAN

DRAWN BY: D. McConkey
DESIGNED BY:
APPROVED BY: B. Buchholz
EMAIL CONTACT: bbuchholz@nfe-engr.com
DATE: -
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N788
SHEET NO. C02



Estimated Paving Quantities This Sheet

Description	Quantity	Unit
HMA Surface	2,485	SYD
4" Concrete Sidewalk	-	SFT
6" Concrete Sidewalk	-	SFT
Detectable Warning Surface	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 1	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 2	-	EA
	-	EA
	-	EA

SEWER STRUCTURE SCHEDULE

175 REMOVE & REPLACE
12+53.02 25.62' R
CONN. MH 175
RIM 783.83
PR. RIM XXX.XX
10" E 780.93 **(REMOVE)**
12" E 777.28 **(REMOVE)**
10" W 777.88 **(REMOVE)**
10" N 777.95 **(REMOVE)**

122 BULKHEAD
12+53.23 49.78" R
CONN. MH 122
RIM 784.57
12" S 778.32
15" E 778.57
12" N 776.37
12" W 777.12 **(REMOVE & BULKHEAD)**

MH1 MAINTAIN
14+45.03 62.64" R
STORM MH
RIM 784.04'
15" N 774.54
15" E 774.64

STORM STRUCTURE SCHEDULE

122a REMOVE & REPLACE
12+53.05 32.49" R
CB 122a
RIM 783.68
PR. RIM XXX.XX
10" W 781.13 **(REMOVE)**

122c TAP & ADJUST
12+58.25 25.26" L
CB 122c
RIM 783.47
PR. RIM XXX.XX
10" E 779.82 **(REMOVE)**
PR. 10" E INV. 779.82 (TAP)

122b TAP & ADJUST
13+00.05 31.52" R
CB 122b
RIM 783.79
PR. RIM XXX.XX
10" S 779.79 **(REMOVE)**
PR. 10" S INV 779.79 (TAP)

WATER MAIN SCHEDULE

60 MAINTAIN
12+57.5 40.56' L
HYD 785.48'

68 MAINTAIN
12+71.84 21.74' L
STOP BOX 783.82'

62 MAINTAIN
12+68.16 62.47" R
STOP BOX 784.14'

127 MAINTAIN
12+90.54 22.51' L
STOP BOX 783.52'

V2 *PR. 12" GATE VALVE IN WELL*
PR. STA. 12+42.33 14.65' L
PR. RIM. XXX.XX
PR. TYPE XXX.XX

UTILITY CROSSING SCHEDULE

01 PR. 12" STM. B/P 779.84
EX. 12" W.M. T/P 778.53 (V.I.F.)
VERTICAL CLEARANCE: 1.31 FT
FG 784.03

02 PR. 12" STM. B/P 779.86
EX. 12" ABND. W.M. T/P 778.63 (V.I.F.)
VERTICAL CLEARANCE: 1.23 FT
FG 784.13

03 PR. 12" STM. B/P 780.03
PR. 12" W.M. T/P 778.52
VERTICAL CLEARANCE: 1.50 FT
FG 784.02

04 PR. 12" STM. B/P 780.06
EX. 12" W.M. T/P 778.57 (V.I.F.)
VERTICAL CLEARANCE: 1.69 FT
FG 783.87

05 PR. 15" STM. B/P 778.21
PR. 12" W.M. T/P 778.77
VERTICAL CLEARANCE: – FT
*LOWER PR. W.M. USING VERT. BENDS
AS REQ. TO MEET CLEARANCE REQ.

06 PR. 15" STM. B/P 777.34
EX. 12" ABND. W.M. B/P 777.80 (RMV)
VERTICAL CLEARANCE: – FT
FG 784.30

07 PR. 12" W.M. T/P 775.03
EX. ABND. 6" W.M. T/P 775.03 (REMOVE)
VERTICAL CLEARANCE: X FT
FG 784.03

08 PR. 12" W.M. T/P 778.38
EX. ABND. 6" W.M. T/P 778.38 (REMOVE)
VERTICAL CLEARANCE: X FT
FG 783.86

09 PR. 12" W.M. T/P 778.29
EX. ABND. 6" W.M. T/P 778.29
VERTICAL CLEARANCE: X FT
FG 783.79

10 PR. 12" W.M. B/P 780.8
EX. ABND. 12" W.M. B/P 780.8 (V.I.F.)
VERTICAL CLEARANCE: X FT
FG 784.30

11 PR. 15" STM. B/P 779.60
EX. 8" GAS LINE B/P 780.40 (V.I.F.)
VERTICAL CLEARANCE: 3.8 FT
FG 782.83

UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- EX PAVERS
- EX. CONC. PAVT.
- EX. ASPH. PAVT.
- PR. 6" CONC. SIDEWALK/RAMP
- PR. 4" CONC. SIDEWALK
- PR. CURB & GUTTER REPAIRS

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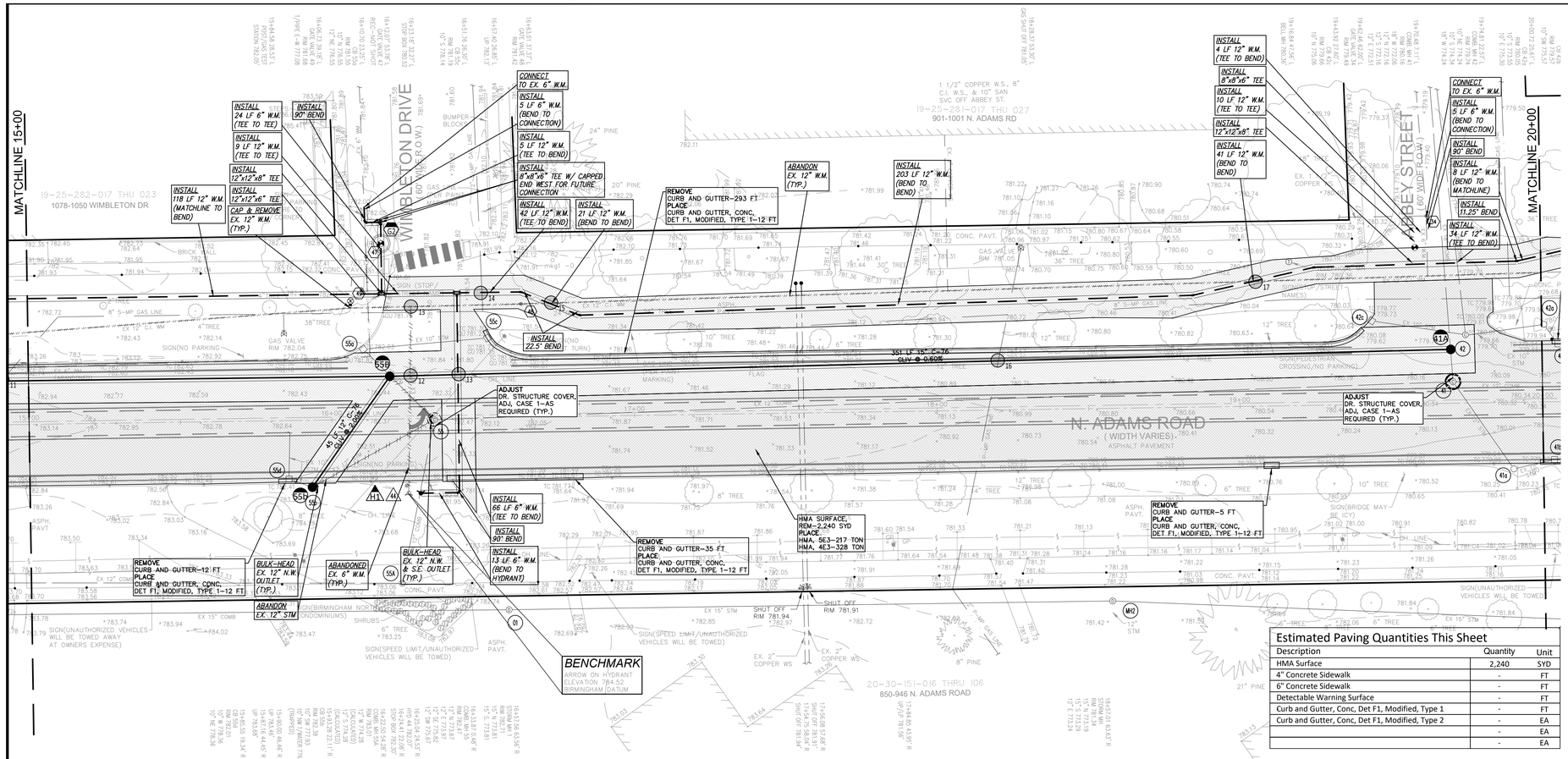
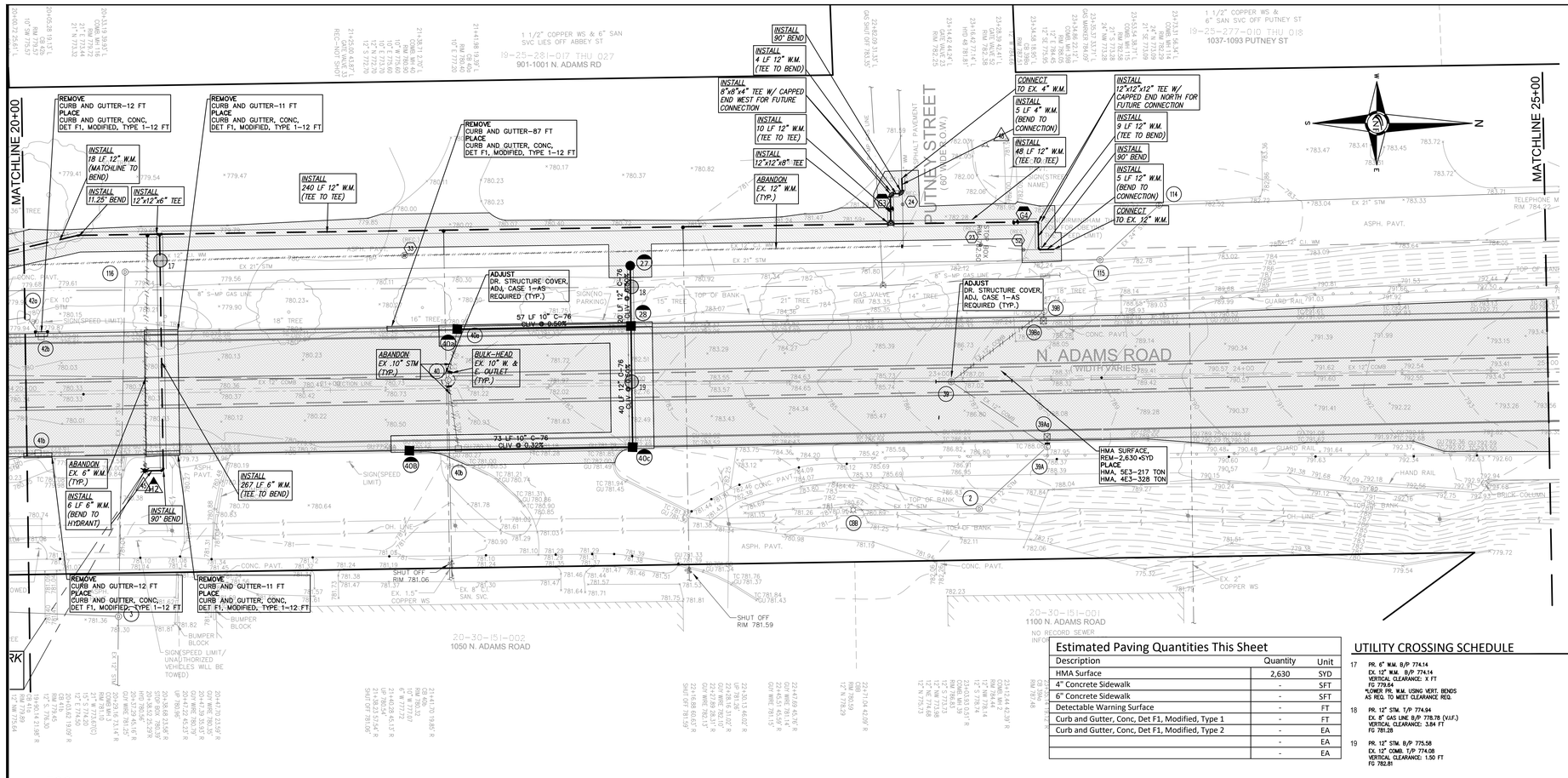
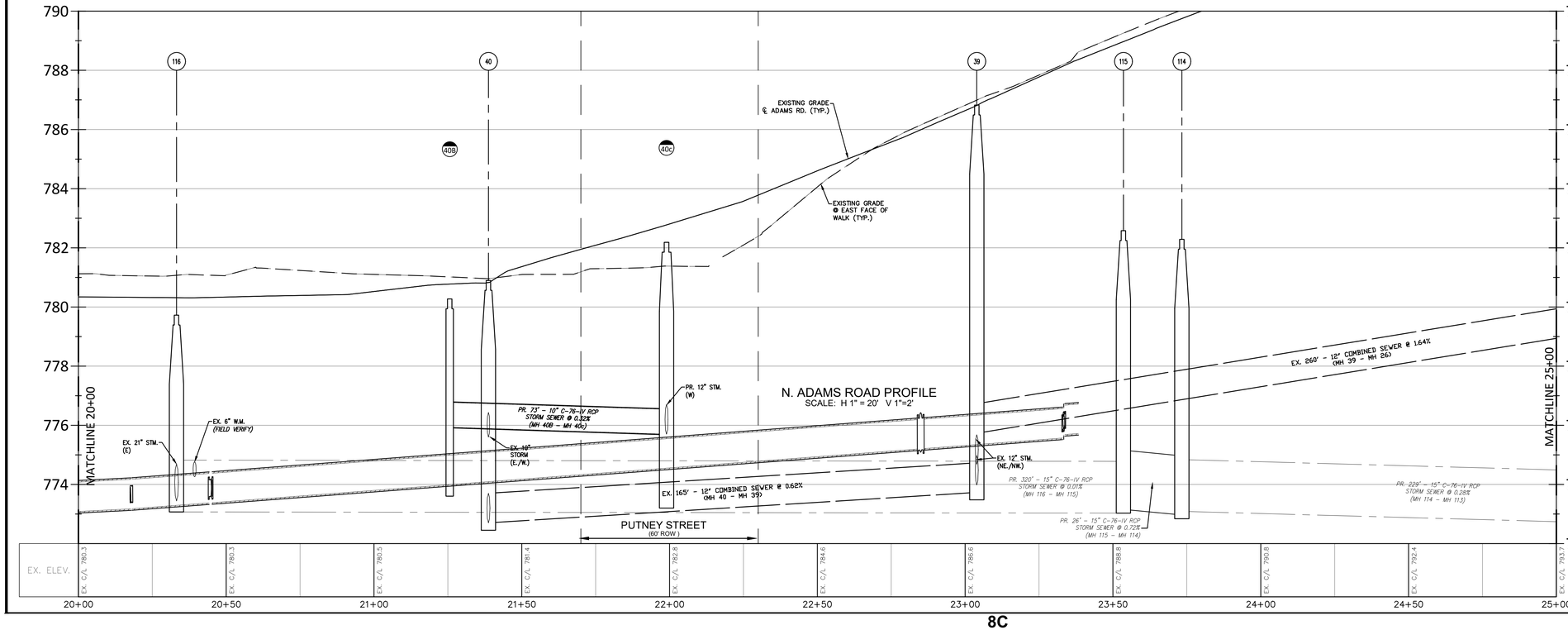

MATCHLINE 15+00
MATCHLINE 20+00
WIMBLETON DRIVE (60' R.O.W.)
ABBEY STREET (60' WIDE R.O.W.)
N. ADAMS ROAD (WIDTH VARIES) ASPHALT PAVEMENT
19-25-282-017 THU 023
1078-1050 WIMBLETON DR
19-25-281-017 THU 027
901-1001 N. ADAMS RD
20-30-151-016 THRU 106
850-946 N. ADAMS ROAD
INSTALL 24 LF 6" W.M. (TEE TO TEE)
INSTALL 90° BEND
INSTALL 9 LF 12" W.M. (TEE TO TEE)
INSTALL 12"x12"x8" TEE
INSTALL 12"x12"x6" TEE
INSTALL 118 LF 12" W.M. (MATCHLINE TO BEND)
CAP & REMOVE EX. 12" W.M. (TYP.)
CONNECT TO EX. 6" W.M.
INSTALL 5 LF 6" W.M. (BEND TO CONNECTION)
INSTALL 5 LF 12" W.M. (TEE TO BEND)
INSTALL 8"x8"x6" TEE W/ CAPPED END WEST FOR FUTURE CONNECTION
INSTALL 42 LF 12" W.M. (TEE TO BEND)
INSTALL 21 LF 12" W.M. (BEND TO BEND)
REMOVE CURB AND GUTTER-293 FT PLACE CURB AND GUTTER, CONC. DET F1, MODIFIED, TYPE 1-12 FT
ABANDON EX. 12" W.M. (TYP.)
INSTALL 203 LF 12" W.M. (BEND TO BEND)
INSTALL 4 LF 12" W.M. (TEE TO BEND)
INSTALL 8"x8"x6" TEE
INSTALL 10 LF 12" W.M. (TEE TO TEE)
INSTALL 12"x12"x8" TEE
INSTALL 41 LF 12" W.M. (BEND TO BEND)
CONNECT TO EX. 6" W.M.
INSTALL 5 LF 6" W.M. (BEND TO CONNECTION)
INSTALL 90° BEND
INSTALL 8 LF 12" W.M. (BEND TO MATCHLINE)
INSTALL 11.25° BEND
INSTALL 34 LF 12" W.M. (TEE TO BEND)
INSTALL 22.5° BEND
45 LF 12" C-76 @ 0.60%
ADJUST DR. STRUCTURE COVER, ADJ, CASE 1-AS REQUIRED (TYP.)
ADJUST DR. STRUCTURE COVER, ADJ, CASE 1-AS REQUIRED (TYP.)
INSTALL 66 LF 6" W.M. (TEE TO BEND)
INSTALL 90° BEND
INSTALL 13 LF 6" W.M. (BEND TO HYDRANT)
REMOVE CURB AND GUTTER-35 FT PLACE CURB AND GUTTER, CONC. DET F1, MODIFIED, TYPE 1-12 FT
HMA SURFACE, REM-2,240 SYD PLACE HMA, 4E3-217 TON HMA, 4E3-328 TON
REMOVE CURB AND GUTTER-5 FT PLACE CURB AND GUTTER, CONC. DET F1, MODIFIED, TYPE 1-12 FT
REMOVE CURB AND GUTTER-12 FT PLACE CURB AND GUTTER, CONC. DET F1, MODIFIED, TYPE 1-12 FT
BULK-HEAD EX. 12" N.W. OUTLET (TYP.)
ABANDONED EX. 6" W.M. (TYP.)
BULK-HEAD EX. 12" N.W. & S.E. OUTLET (TYP.)
ABANDON EX. 12" STM
SHUT OFF RIM 781.94
SHUT OFF RIM 781.91
BENCHMARK
ARROW ON HYDRANT
ELEVATION 784.52
BIRMINGHAM DATUM
EX. 2" COPPER WS
8" PINE
21" PINE
24" PINE
20" PINE
38" TREE
36" TREE
GAS VALVE RIM 782.04
GAS VALVE RIM 781.05
1 1/2" COPPER W.S., 8" C.I. W.S., & 10" SAN SWC OFF ABBEY ST.
8" S-MP GAS LINE
EX. 2" S-MP GAS LINE
EX. 12" C.I. WM
EX. 15" STM
EX. 15" COMB
EX. 12" COMB
EX. 10" STM
EX. 8" W.M.
EX. 6" W.M.
SIGN(NO PARKING)
SIGN(NO LEFT TURN)
SIGN(BRIDGE MAY BE ICY)
SIGN(UNAUTHORIZED VEHICLES WILL BE TOWED AWAY AT OWNERS EXPENSE)
SIGN(SPEED LIMIT/UNAUTHORIZED VEHICLES WILL BE TOWED)
SIGN(BIRMINGHAM NORTHCONDOMINIUMS)
SHRUBS
BUMPER BLOCKS
BRICK WALL
CONC. PAVT.
ASPH. PAVT.
TC 781.72
TC 781.68
TC 781.63
TC 781.58
TC 781.70
TC 781.78
TC 781.73
TC 781.83
TC 781.88
TC 781.93
TC 781.98
TC 782.03
TC 782.08
TC 782.13
TC 782.18
TC 782.23
TC 782.28
TC 782.33
TC 782.38
TC 782.43
TC 782.48
TC 782.53
TC 782.58
TC 782.63
TC 782.68
TC 782.73
TC 782.78
TC





Estimated Paving Quantities This Sheet

Description	Quantity	Unit
HMA Surface	2,630	SYD
4" Concrete Sidewalk	-	SFT
6" Concrete Sidewalk	-	SFT
Detectable Warning Surface	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 1	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 2	-	EA
	-	EA
	-	EA

UTILITY CROSSING SCHEDULE

17 PR. 6" W.M. B/P 774.14
EX. 12" W.M. B/P 774.14
VERTICAL CLEARANCE: X FT
FG 779.64
*LOWER PR. W.M. USING VERT. BENDS AS REQ. TO MEET CLEARANCE REQ.

18 PR. 12" STM. T/P 774.94
EX. 8" GAS LINE B/P 778.78 (V.I.F.)
VERTICAL CLEARANCE: 3.84 FT
FG 781.28

19 PR. 12" STM. B/P 775.58
EX. 12" COMB. T/P 774.08
VERTICAL CLEARANCE: 1.50 FT
FG 782.81

SEWER STRUCTURE SCHEDULE

39A MAINTAIN 23+35.14 22.38° R, COMB.MH 39A, RIM 788.01, 12" SW 775.55 (R)

39 ADJUST 23+03.93 0.51° R, COMB. MH 39, RIM 786.83, PR. RIM XXX.XX, 12" S 773.73, 12" NW 773.98, 12" NE 774.68, 12" N 775.73

39B MAINTAIN 23+34.86 22.12° L, COMB.MH 39B, RIM 788.05, 12" E 784.45, 12" SE 775.95

40 BULKHEAD & ADJUST 21+36.71 2.70° L, COMB. MH 40, RIM 780.90, PR. RIM XXX.XX, 10" W 775.60 (BULKHEAD), 10" E 775.60 (BULKHEAD), 10" E 773.70, 12" N 772.70 (MAINTAIN), 12" S 772.70 (MAINTAIN)

01 MAINTAIN 16+57.56 63.56° R, STORM MH 1, RIM 782.71, 15" N 773.81, 15" S. 773.81

STORM STRUCTURE SCHEDULE

41b ADJUST 20+05.62 19.09° R, CB 41b, RIM 779.45, PR. RIM XXX.XX, 12" S. 776.30 (MAINTAIN)

42b ADJUST 20+05.28 19.13° L, CB 42b, RIM 779.57, PR. RIM XXX.XX, 10" SW 775.57 (MAINTAIN)

3 MAINTAIN 20+28.16 73.14° R, COMB MH 3, RIM 781.10, 21" W 773.67(C), 15" S 774.20, 12" E 774.50

42a MAINTAIN 20+00.72 25.61° L, CB 42a, RIM 780.05, 10" S 773.55, 10" E 775.30

116 MAINTAIN 20+33.19 39.93° L, COMB. MH 116, RIM 779.72, 21" E 773.44, 21" N 773.32

40b ADJUST 21+41.70 19.85° R, CB 40b, RIM 780.32, PR. RIM XXX.XX, 10" W 777.07, 6" W 777.72

40a TAP & ADJUST 21+41.98 19.39° L, CB 40a, RIM 780.40, PR. RIM XXX.XX, 10" E 777.20 (BULKHEAD), PR. 12" N 775.79'

40b REMOVE 21+41.70 19.85° R, CB 40b, RIM 780.32, PR. RIM XXX.XX, 10" W 777.07, 6" W 777.72

CBB ADJUST 22+71.04 42.09° R, CBB, RIM 780.59, 12" N 778.29

40a MAINTAIN 21+41.98 19.39° L, CB 40a, RIM 780.40, 10" E 777.20

39Aa SEE NOTE 23+35.14 19.12° R, CB 39Aa, RIM 787.48, PR. RIM XXX.XX

115 MAINTAIN 23+53.54 38.71° L, COMB MH 115, RIM 782.58, 21" S 773.28, 24" NW 773.28

39Bb SEE NOTE 23+34.58 18.95° L, CB 39Bb, RIM 787.51, PR. RIM XXX.XX, 12" W 784.66

114 MAINTAIN 23+73.31 56.34° L, COMB. MH 114, RIM 782.29, 24" N 773.09, 21" SE 773.09

2 MAINTAIN 23+12.44 42.39° R, COMB.MH 2, RIM 784.14, 12" NW 778.14, 12" S 778.74

WATER MAIN SCHEDULE

45 MAINTAIN 20+36.68 23.58° R, STOP BOX 780.39', 20+38.52 25.29'R, HYD 780.56'

33 MAINTAIN 21+25.00 43.87° L, GATE VALVE 33, REC—NOT SHOT

52 MAINTAIN 23+28.39 42.41° L, GATE VALVE 52, RIM 782.38

43 MAINTAIN 23+16.42 77.14° L, HYD 48 781.81'

23 MAINTAIN 23+14.42 44.24° L, GATE VALVE 23, RIM 782.25

W PR. 12" GATE VALVE IN WELL, PR. STA. 22+84.96 56.51° L, PR. RIM XXX.XX, PR. T/PIPE XXX.XX

HYDRANT & ASSEMBLY 12 STA. 20+38.65' 26.53° R, F.G. XXX.XX, PR. T/PIPE XXX.XX

54 PR. 12" GATE VALVE IN WELL, PR. STA. 23+25.96 51.53° L, PR. RIM XXX.XX, PR. T/PIPE XXX.XX

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- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- EX PAVERS
- EX. CONC. PAVT.
- EX. ASPH. PAVT.
- PR. 6" CONC. SIDEWALK/RAMP
- PR. 4" CONC. SIDEWALK
- PR. CURB & GUTTER REPAIRS

(RECORD) CURB STOP LOCATION (APPROX.), LANDSCAPE BED, EX. SOIL BORING, PUBLIC PHONE, WELL, PUMP, SIGN, POST/BOLLARD, PARKING METER, MAIL BOX, ROCK/BOULDER, SPRINKLER VALVE BOX, SPRINKLER HEAD, FOUND PROPERTY MARKER, GROUND ELEVATION

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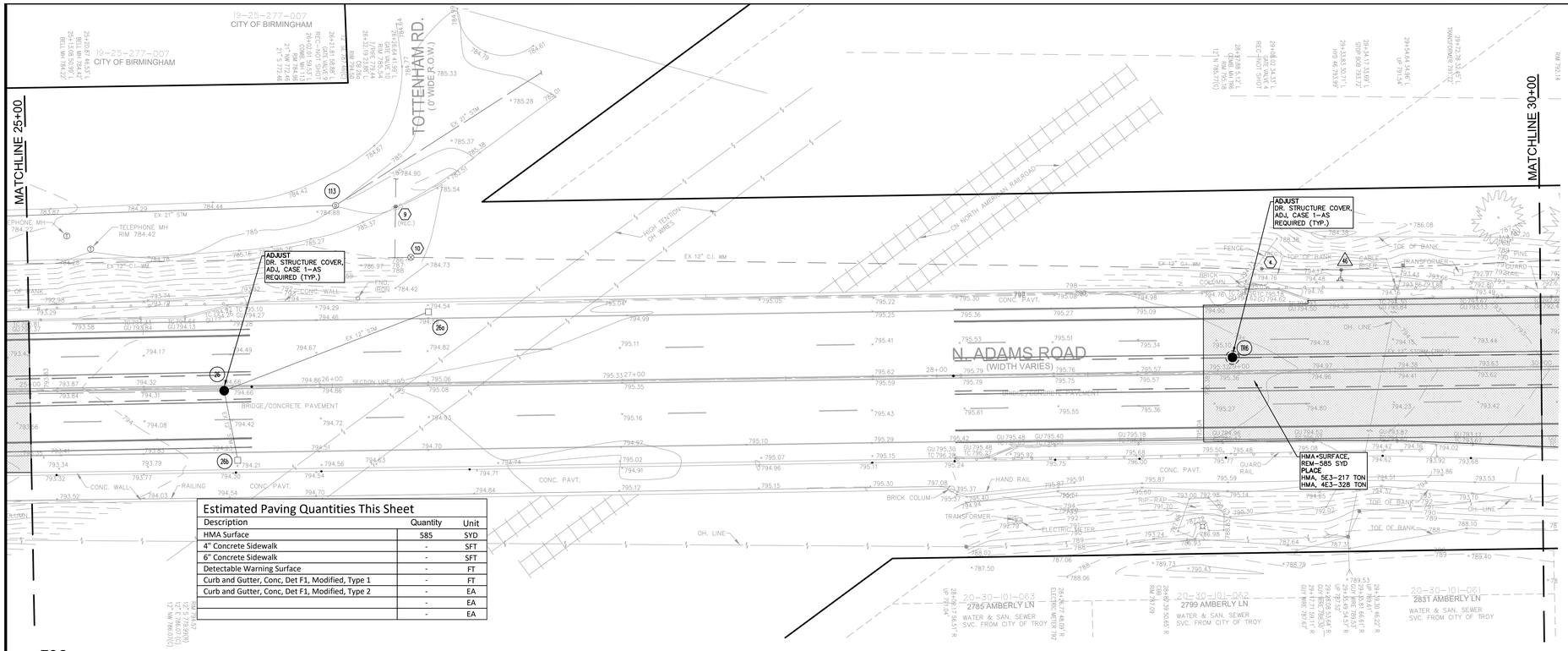

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HMA Surface	585	SYD
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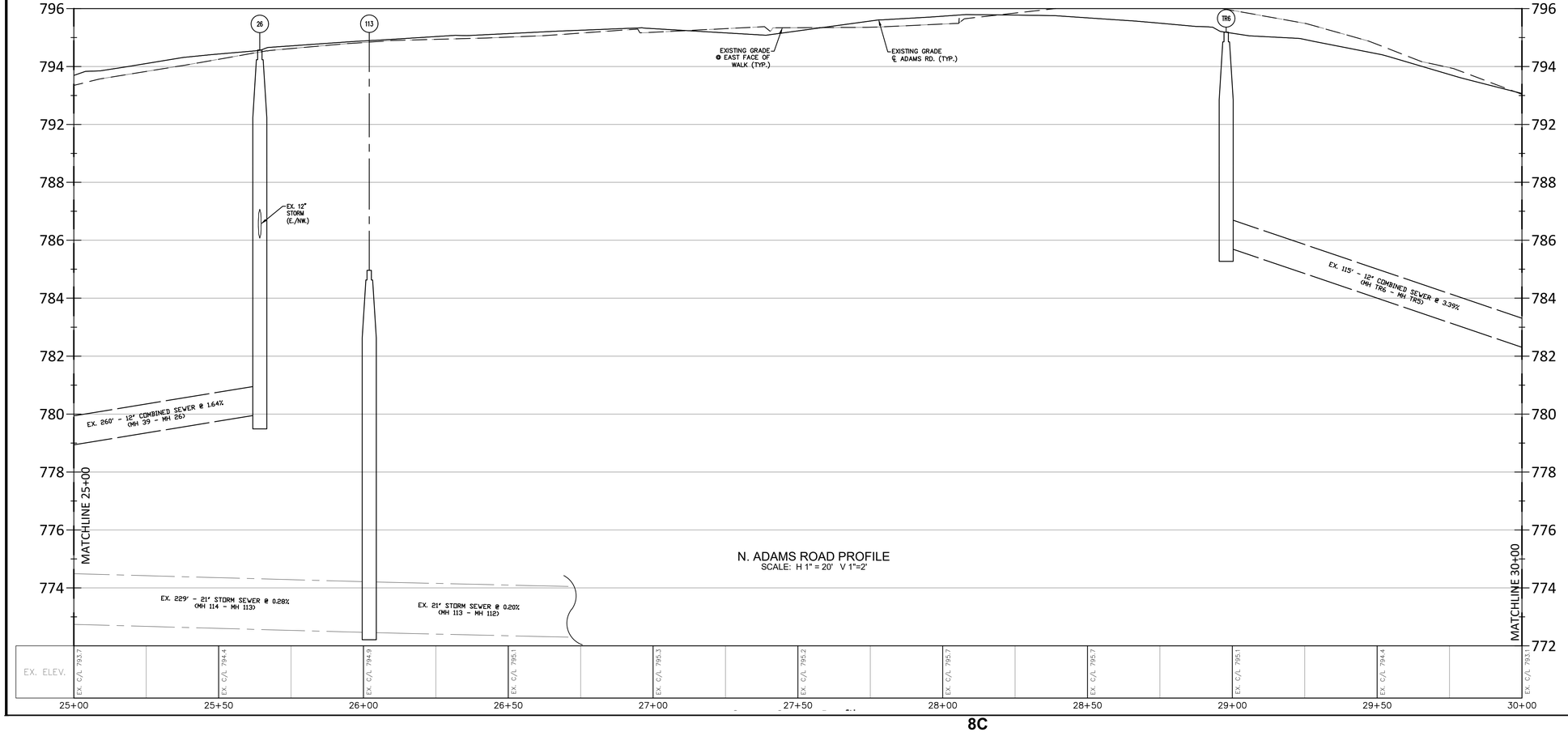
6" Concrete Sidewalk	-	SFT
Detectable Warning Surface	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 1	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 2	-	EA
	-	EA
	-	EA



N. ADAMS ROAD PROFILE
SCALE: H 1" = 20' V 1"=2'

SEWER STRUCTURE SCHEDULE

(26) MAINTAIN
25+64.21 1.12' R
CO#8.MH 26
RIM 794.57
12" S 779.99(R)
12" E 786.07(C)
12" NW 786.07(C)

STORM STRUCTURE SCHEDULE

(26b) MAINTAIN
25+68.29 24.22' R
CB 26b
RIM 794.14
12" W 786.54

(26a) MAINTAIN
26+32.19 23.88' L
CB 26a
RIM 794.50
12" SE 787.46(C)

(113) MAINTAIN
26+02.01 59.53' L
MH 113
RIM 784.96
21" NW 772.46
21" S 772.46

(TR6) ADJUST
28+97.88 5.12' L
MH TR6
RIM 795.18
PR. RIM XX.XX
12" N 785.77(C)

WATER MAIN SCHEDULE

(40) MAINTAIN
29+33.83 30.71' L
HYD 46 793.99'
29+34.17 33.69' L
STOP BOB 793.72'

(9) MAINTAIN
26+21.81 58.88' L
GATE VALVE 9
REC--NOT SHOT

(4) MAINTAIN
29+08.02 34.33' L
GATE VALVE 4
REC--NOT SHOT

(10) MAINTAIN
26+26.64 41.99' L
GATE VALVE 10
RIM 785.54
T/PIPE 779.44

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- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- EX. CONC. PAVT.
- EX. ASPH. PAVT.
- PR. 6" CONC. SIDEWALK/RAMP
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TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NFE-ENGR.COM

SEAL

PROJECT
City of Birmingham
Adams Road Paving Project
Contract #12-24(P)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the East 1/2 of Section 25, T.2N, R10E and the West 1/2 of Section 30, T.2N, R.11E
City of Birmingham, Oakland County, Michigan

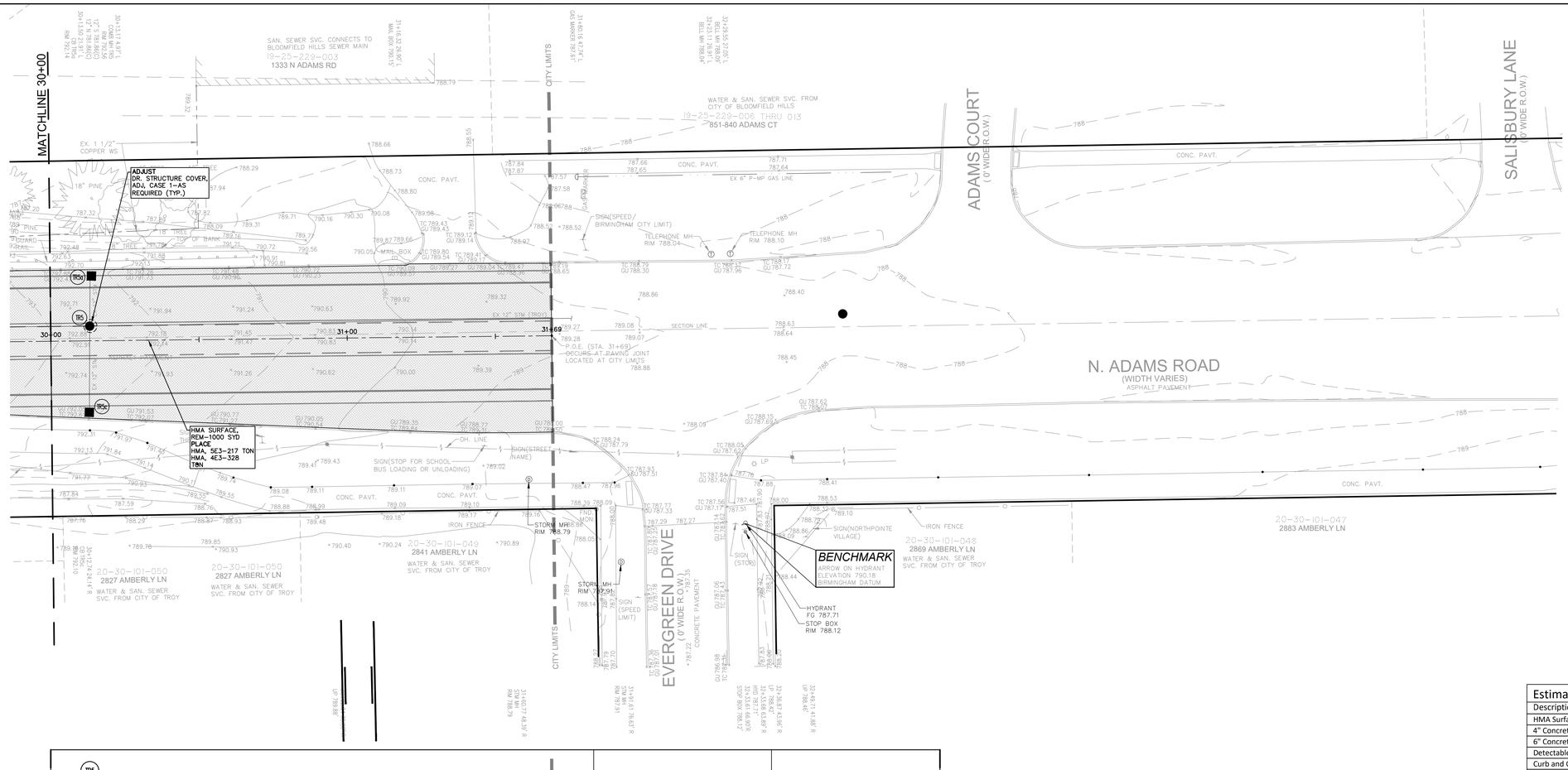
SHEET
Paving & Utility Plan - N. Adams Road Sta. 25+00 to 30+00

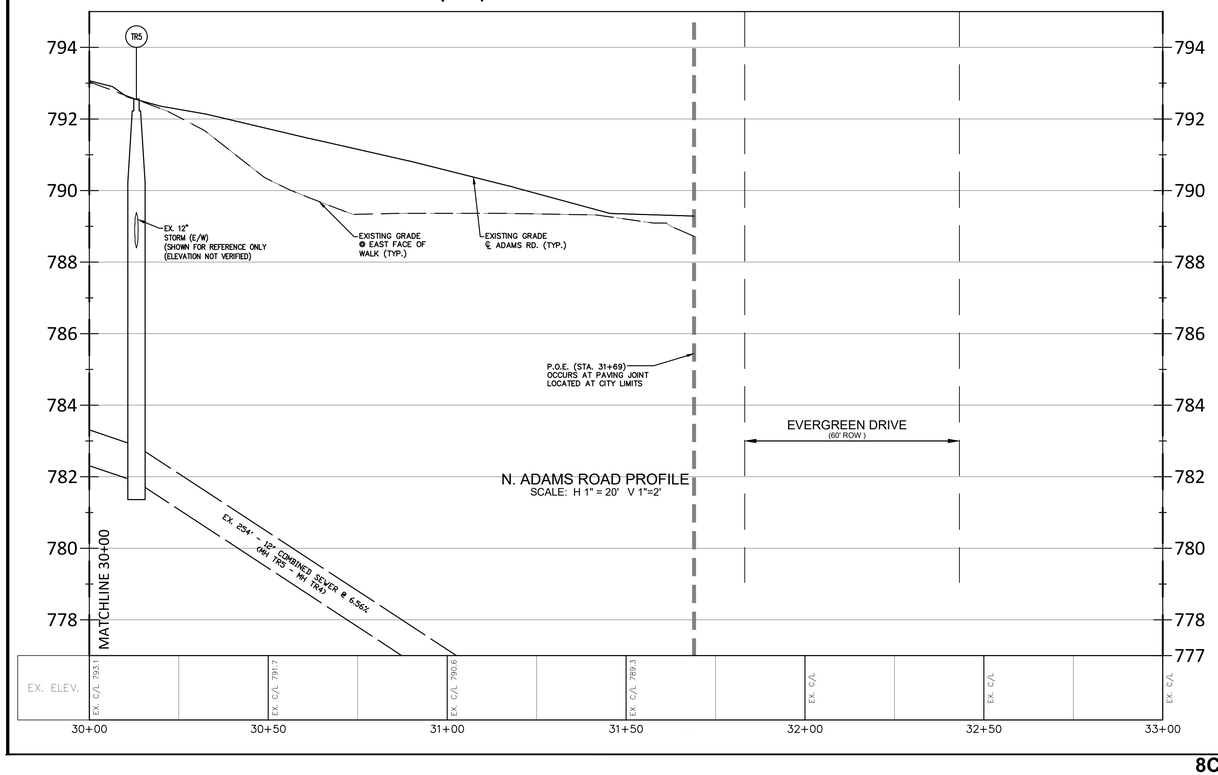
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
6-28-2024	75% PLAN

DRAWN BY: D. McConkey
DESIGNED BY:
APPROVED BY: B. Buchholz
EMAIL CONTACT: bbuchholz@nfe-engr.com
DATE: -
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N788
SHEET NO. C06





Estimated Paving Quantities This Sheet		
Description	Quantity	Unit
HMA Surface	-	SYD
4" Concrete Sidewalk	-	SFT
6" Concrete Sidewalk	-	SFT
Detectable Warning Surface	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 1	-	FT
Curb and Gutter, Conc, Det F1, Modified, Type 2	-	EA
	-	EA
	-	EA

STORM STRUCTURE SCHEDULE

TR5c	TR5	TR5o
ADJUST 30x12.74 24.14' R CB TR5c RIM 792.10 PR. RIM XXX.XX	ADJUST 30x13.17 4.97' L COMB MH TR5 RIM 792.56 PR. RIM XXX.XX 12" S 781.86(C) 12"N 781.86(C)	ADJUST 30x13.50 21.91' L CB TR5o RIM 792.14 PR. RIM XXX.XX

UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- EX. CONC. PAVT.
- EX. ASPH. PAVT.
- PR. 6" CONC. SIDEWALK/RAMP
- PR. 4" CONC. SIDEWALK
- PR. CURB & GUTTER REPAIRS

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
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City of Birmingham, Oakland County, Michigan

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Paving & Utility Plan - N. Adams Road Sta. 30+00 to P.O.E.

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6-28-2024	75% PLAN

DRAWN BY: D. McConkey
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APPROVED BY: B. Buchholz
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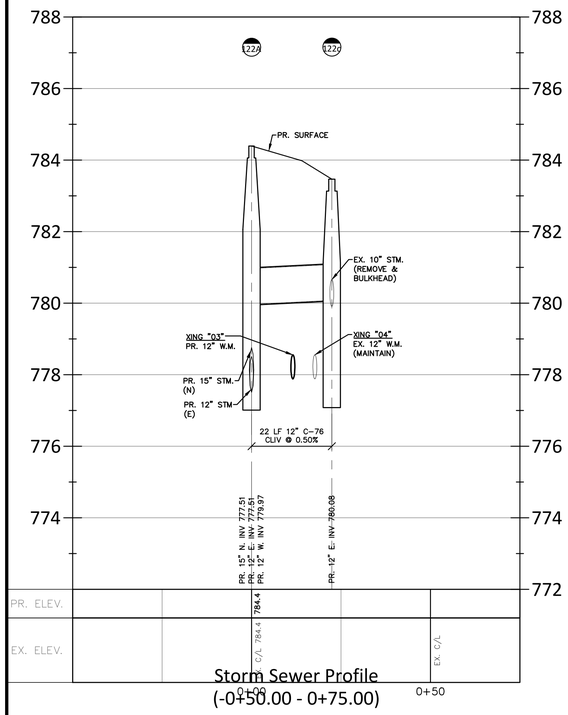
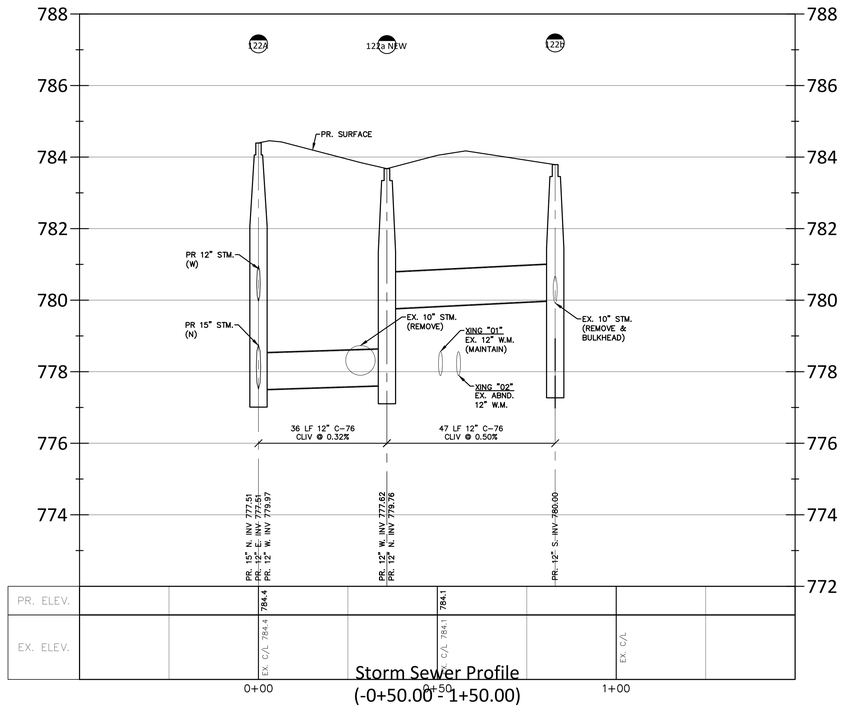
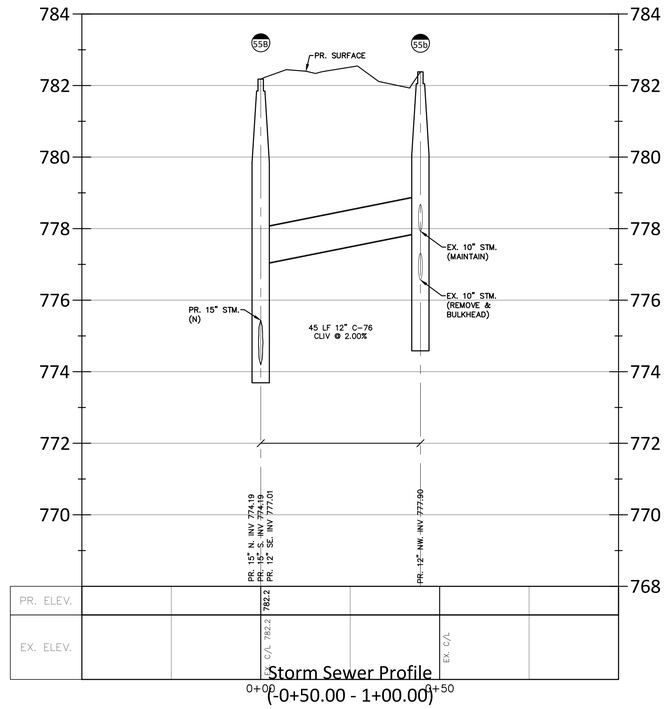
NFE JOB NO. N788
SHEET NO. C07



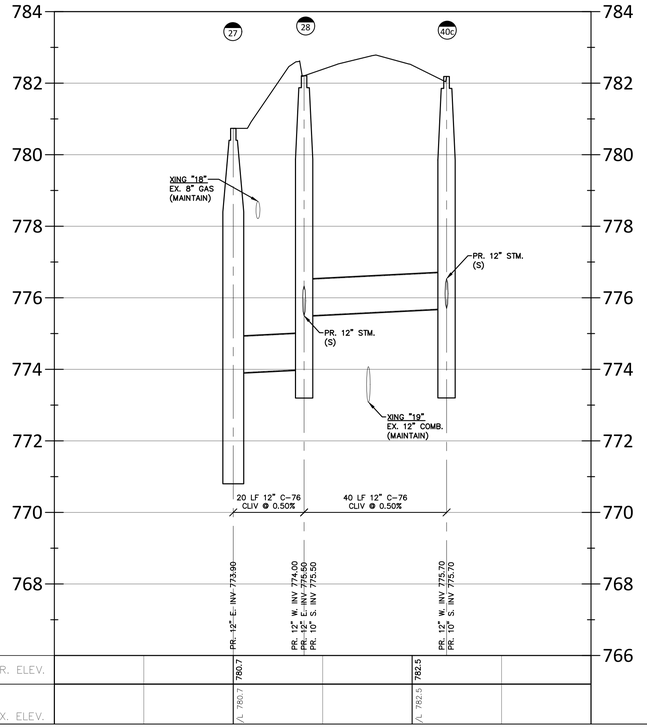
Storm Sewer Profile
(-0+50.00 - 0+75.00)

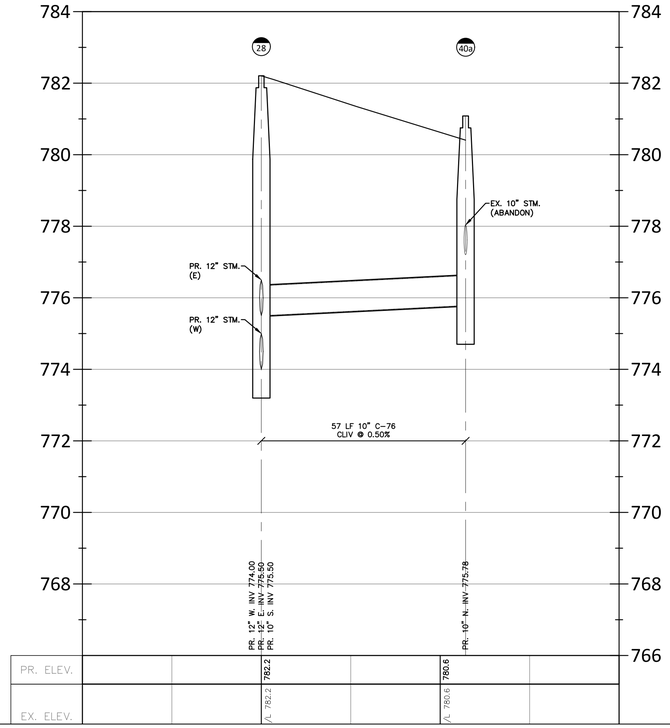


Storm Sewer Profile
(-0+50.00 - 1+50.00)



Storm Sewer Profile
(-0+50.00 - 1+00.00)





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SHEET
Storm Sewer Profiles

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6-28-2024	75% PLAN

DRAWN BY:
D. McConkey
DESIGNED BY:
APPROVED BY:
B. Buchholz
EMAIL CONTACT:
bbuchholz@nfe-engr.com
DATE:
-
SCALE: 1" = 20' / 1"=2'
20 10 0 10 20 30

NFE JOB NO. **N788**
SHEET NO. **C08**

N. Adam Resurfacing Project Area
Sewer and Water Lateral Special Assement District

Sidwell Number	Street Address	Water Lateral Length (ft)	Water SAD Costs	Sewer Lateral Length (ft)	Sewer SAD Costs
19-25-279-017	1001 N ADAMS RD	49	$857.50	-	$0.00
19-25-279-018	1013 N ADAMS RD		$857.50	-	$0.00
19-25-279-019	1025 N ADAMS RD		$857.50	-	$0.00
19-25-279-020	1037 N ADAMS RD		$857.50	-	$0.00
19-25-279-021	1049 N ADAMS RD		$857.50	-	$0.00
19-25-279-022	1051 N ADAMS RD		$857.50	-	$0.00
19-25-279-023	1063 N ADAMS RD		$857.50	-	$0.00
19-25-279-024	1075 N ADAMS RD		$857.50	-	$0.00
19-25-279-025	1087 N ADAMS RD		$857.50	-	$0.00
19-25-279-026	1099 N ADAMS RD		$857.50	-	$0.00
20-30-151-001	1100 N ADAMS RD	-	$0.00	59	$7,375.00
20-30-151-002	1050 N ADAMS RD	111	$12,765.00		$7,375.00
20-30-151-007	1109 DERBY RD APT 4	103	$49.66	-	$0.00
20-30-151-008	1109 DERBY RD APT 8		$49.66	-	$0.00
20-30-151-009	1109 DERBY RD APT 3		$49.66	-	$0.00
20-30-151-010	1109 DERBY RD APT 7		$49.66	-	$0.00
20-30-151-011	1109 DERBY RD APT 1		$49.66	-	$0.00
20-30-151-012	1109 DERBY RD APT 5		$49.66	-	$0.00
20-30-151-013	1109 DERBY RD APT 2		$49.66	-	$0.00
20-30-151-014	1109 DERBY RD APT 6		$49.66	-	$0.00
20-30-151-015	1127 DERBY RD APT 4		$49.66	-	$0.00
20-30-151-016	1127 DERBY RD APT 8		$49.66	-	$0.00
20-30-151-017	1127 DERBY RD APT 3		$49.66	-	$0.00
20-30-151-018	1127 DERBY RD APT 7		$49.66	-	$0.00
20-30-151-019	1127 DERBY RD APT 1		$49.66	-	$0.00
20-30-151-020	1127 DERBY RD APT 5		$49.66	-	$0.00
20-30-151-021	1127 DERBY RD APT 2		$49.66	-	$0.00
20-30-151-022	1127 DERBY RD APT 6		$49.66	-	$0.00
20-30-151-023	1155 DERBY RD APT 4		$49.66	-	$0.00
20-30-151-024	1155 DERBY RD APT 8		$49.66	-	$0.00
20-30-151-025	1155 DERBY RD APT 3		$49.66	-	$0.00
20-30-151-026	1155 DERBY RD APT 7		$49.66	-	$0.00
20-30-151-027	1155 DERBY RD APT 1		$49.66	-	$0.00
20-30-151-028	1155 DERBY RD APT 5		$49.66	-	$0.00
20-30-151-029	1155 DERBY RD APT 2		$49.66	-	$0.00
20-30-151-030	1155 DERBY RD APT 6		$49.66	-	$0.00
20-30-151-031	850 N ADAMS RD APT 1		$49.66	-	$0.00
20-30-151-032	850 N ADAMS RD APT 5		$49.66	-	$0.00
20-30-151-033	850 N ADAMS RD APT 2		$49.66	-	$0.00
20-30-151-034	850 N ADAMS RD APT 6		$49.66	-	$0.00
20-30-151-035	850 N ADAMS RD APT 4		$49.66	-	$0.00
20-30-151-036	850 N ADAMS RD APT 8		$49.66	-	$0.00
20-30-151-037	850 N ADAMS RD APT 3		$49.66	-	$0.00
20-30-151-038	850 N ADAMS RD APT 7		$49.66	-	$0.00
20-30-151-039	868 N ADAMS RD APT 1		$49.66	-	$0.00
20-30-151-040	868 N ADAMS RD APT 5		$49.66	-	$0.00
20-30-151-041	868 N ADAMS RD APT 2		$49.66	-	$0.00

N. Adam Resurfacing Project Area
Sewer and Water Lateral Special Assement District

20-30-151-042	868 N ADAMS RD APT 6		$49.66	-	$0.00
20-30-151-043	868 N ADAMS RD APT 4		$49.66	-	$0.00
20-30-151-044	868 N ADAMS RD APT 8		$49.66	-	$0.00
20-30-151-045	868 N ADAMS RD APT 3		$49.66	-	$0.00
20-30-151-046	868 N ADAMS RD APT 7		$49.66	-	$0.00
20-30-151-047	1195 DERBY RD APT 4		$49.66	-	$0.00
20-30-151-048	1195 DERBY RD APT 8		$49.66	-	$0.00
20-30-151-049	1195 DERBY RD APT 3		$49.66	-	$0.00
20-30-151-050	1195 DERBY RD APT 7		$49.66	-	$0.00
20-30-151-051	1195 DERBY RD APT 1		$49.66	-	$0.00
20-30-151-052	1195 DERBY RD APT 5		$49.66	-	$0.00
20-30-151-053	1195 DERBY RD APT 2		$49.66	-	$0.00
20-30-151-054	1195 DERBY RD APT 6		$49.66	-	$0.00
20-30-151-055	1225 DERBY RD APT 4		$49.66	-	$0.00
20-30-151-056	1225 DERBY RD APT 8		$49.66	-	$0.00
20-30-151-057	1225 DERBY RD APT 3		$49.66	-	$0.00
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20-30-151-059	1225 DERBY RD APT 1		$49.66	-	$0.00
20-30-151-060	1225 DERBY RD APT 5		$49.66	-	$0.00
20-30-151-061	1225 DERBY RD APT 2		$49.66	-	$0.00
20-30-151-062	1225 DERBY RD APT 6		$49.66	-	$0.00
20-30-151-063	1245 DERBY RD APT 1		$49.66	-	$0.00
20-30-151-064	1245 DERBY RD APT 5		$49.66	-	$0.00
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20-30-151-067	1245 DERBY RD APT 4		$49.66	-	$0.00
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20-30-151-071	880 N ADAMS RD APT 1		$49.66	-	$0.00
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20-30-151-073	880 N ADAMS RD APT 2		$49.66	-	$0.00
20-30-151-074	880 N ADAMS RD APT 6		$49.66	-	$0.00
20-30-151-075	880 N ADAMS RD APT 4		$49.66	-	$0.00
20-30-151-076	880 N ADAMS RD APT 8		$49.66	-	$0.00
20-30-151-077	880 N ADAMS RD APT 3		$49.66	-	$0.00
20-30-151-078	880 N ADAMS RD APT 7		$49.66	-	$0.00
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20-30-151-083	898 N ADAMS RD APT 4		$49.66	-	$0.00
20-30-151-084	898 N ADAMS RD APT 8		$49.66	-	$0.00
20-30-151-085	898 N ADAMS RD APT 3		$49.66	-	$0.00
20-30-151-086	898 N ADAMS RD APT 7		$49.66	-	$0.00
20-30-151-087	946 N ADAMS RD APT 4	103	$782.38	-	$0.00
20-30-151-088	946 N ADAMS RD APT 8		$782.38	-	$0.00
20-30-151-089	946 N ADAMS RD APT 3		$782.38	-	$0.00
20-30-151-090	946 N ADAMS RD APT 7		$782.38	-	$0.00
20-30-151-091	946 N ADAMS RD APT 1		$782.38	-	$0.00
20-30-151-092	946 N ADAMS RD APT 5		$782.38	-	$0.00

N. Adam Resurfacing Project Area
Sewer and Water Lateral Special Assement District

20-30-151-093	946 N ADAMS RD APT 2		$782.38	-	$0.00
20-30-151-094	946 N ADAMS RD APT 6		$782.38	-	$0.00
20-30-151-095	928 N ADAMS RD APT 4		$782.38	-	$0.00
20-30-151-096	928 N ADAMS RD APT 8		$782.38	-	$0.00
20-30-151-097	928 N ADAMS RD APT 3		$782.38	-	$0.00
20-30-151-098	928 N ADAMS RD APT 7		$782.38	-	$0.00
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20-30-151-114	964 N ADAMS RD APT 6		$782.38	-	$0.00
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20-30-151-116	964 N ADAMS RD APT 8		$782.38	-	$0.00
20-30-151-117	964 N ADAMS RD APT 3		$782.38	-	$0.00
20-30-151-118	964 N ADAMS RD APT 7		$782.38	-	$0.00
20-30-151-119	982 N ADAMS RD APT 1		$782.38	-	$0.00
20-30-151-120	982 N ADAMS RD APT 5		$782.38	-	$0.00
20-30-151-121	982 N ADAMS RD APT 2		$782.38	-	$0.00
20-30-151-122	982 N ADAMS RD APT 6		$782.38	-	$0.00
20-30-151-123	982 N ADAMS RD APT 4		$782.38	-	$0.00
20-30-151-124	982 N ADAMS RD APT 8		$782.38	-	$0.00
20-30-151-125	982 N ADAMS RD APT 3		$782.38	-	$0.00
20-30-151-126	982 N ADAMS RD APT 7		$782.38	-	$0.00
20-30-151-127	900 N ADAMS RD		$782.38	-	$0.00

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

City Clerk's Office

DATE: **June 4, 2024**

TO: **Melissa Coatta, City Engineer**

FROM: **Alexandria Bingham, City Clerk**

SUBJECT: **Clerk's Confirmation of Public Hearing Notice: North Adams Resurfacing Project, Contract #12-24 (P): Water & Sewer Laterals Special Assessment District (SAD)**

The public hearing notice process has been completed for North Adams Resurfacing Project, Contract #12-24 (P): Water & Sewer Laterals Special Assessment District (SAD). Please see attachments for further confirmation.

Mailing Date: 6/20/2024
Test Mail Return Date: 6/25/2024
Publishing Dates in the Oakland Press: 6/23/2024 & 6/30/2024
Posted in www.bhamgov/publicnotices: 6/20/2024

Attachments:

1. Public Hearing Notice
2. Addresses
3. Mailing Letter
4. Mail Machine Counter Report
5. Proof of publishing for 6/23/2024 & 6/30/2024

NOTICE OF PUBLIC HEARING

BIRMINGHAM CITY COMMISSION

PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL

Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 22, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Project Location:	North Adams Road. Below are the affected parcels:

20-30-151-001	1100 N ADAMS RD	20-30-151-083	898 N ADAMS RD APT 4
20-30-151-002	1050 N ADAMS RD	20-30-151-084	898 N ADAMS RD APT 8
20-30-151-007	1109 DERBY RD APT 4	20-30-151-085	898 N ADAMS RD APT 3
20-30-151-008	1109 DERBY RD APT 8	20-30-151-086	898 N ADAMS RD APT 7
20-30-151-009	1109 DERBY RD APT 3	20-30-151-087	946 N ADAMS RD APT 4
20-30-151-010	1109 DERBY RD APT 7	20-30-151-088	946 N ADAMS RD APT 8
20-30-151-011	1109 DERBY RD APT 1	20-30-151-089	946 N ADAMS RD APT 3
20-30-151-012	1109 DERBY RD APT 5	20-30-151-090	946 N ADAMS RD APT 7
20-30-151-013	1109 DERBY RD APT 2	20-30-151-091	946 N ADAMS RD APT 1
20-30-151-014	1109 DERBY RD APT 6	20-30-151-092	946 N ADAMS RD APT 5
20-30-151-015	1127 DERBY RD APT 4	20-30-151-093	946 N ADAMS RD APT 2
20-30-151-016	1127 DERBY RD APT 8	20-30-151-094	946 N ADAMS RD APT 6
20-30-151-017	1127 DERBY RD APT 3	20-30-151-095	928 N ADAMS RD APT 4
20-30-151-018	1127 DERBY RD APT 7	20-30-151-096	928 N ADAMS RD APT 8
20-30-151-019	1127 DERBY RD APT 1	20-30-151-097	928 N ADAMS RD APT 3
20-30-151-020	1127 DERBY RD APT 5	20-30-151-098	928 N ADAMS RD APT 7
20-30-151-021	1127 DERBY RD APT 2	20-30-151-099	928 N ADAMS RD APT 1
20-30-151-022	1127 DERBY RD APT 6	20-30-151-100	928 N ADAMS RD APT 5
20-30-151-023	1155 DERBY RD APT 4	20-30-151-101	928 N ADAMS RD APT 2
20-30-151-024	1155 DERBY RD APT 8	20-30-151-102	928 N ADAMS RD APT 6
20-30-151-025	1155 DERBY RD APT 3	20-30-151-103	910 N ADAMS RD APT 4
20-30-151-026	1155 DERBY RD APT 7	20-30-151-104	910 N ADAMS RD APT 8
20-30-151-027	1155 DERBY RD APT 1	20-30-151-105	910 N ADAMS RD APT 3
20-30-151-028	1155 DERBY RD APT 5	20-30-151-106	910 N ADAMS RD APT 7
20-30-151-029	1155 DERBY RD APT 2	20-30-151-107	910 N ADAMS RD APT 1
20-30-151-030	1155 DERBY RD APT 6	20-30-151-108	910 N ADAMS RD APT 5
20-30-151-031	850 N ADAMS RD APT 1	20-30-151-109	910 N ADAMS RD APT 2
20-30-151-032	850 N ADAMS RD APT 5	20-30-151-110	910 N ADAMS RD APT 6
20-30-151-033	850 N ADAMS RD APT 2	20-30-151-111	964 N ADAMS RD APT 1
20-30-151-034	850 N ADAMS RD APT 6	20-30-151-112	964 N ADAMS RD APT 5
20-30-151-035	850 N ADAMS RD APT 4	20-30-151-113	964 N ADAMS RD APT 2
20-30-151-036	850 N ADAMS RD APT 8	20-30-151-114	964 N ADAMS RD APT 6
20-30-151-037	850 N ADAMS RD APT 3	20-30-151-115	964 N ADAMS RD APT 4
20-30-151-038	850 N ADAMS RD APT 7	20-30-151-116	964 N ADAMS RD APT 8
20-30-151-039	868 N ADAMS RD APT 1	20-30-151-117	964 N ADAMS RD APT 3
20-30-151-040	868 N ADAMS RD APT 5	20-30-151-118	964 N ADAMS RD APT 7
20-30-151-041	868 N ADAMS RD APT 2	20-30-151-119	982 N ADAMS RD APT 1
20-30-151-042	868 N ADAMS RD APT 6	20-30-151-120	982 N ADAMS RD APT 5
20-30-151-043	868 N ADAMS RD APT 4	20-30-151-121	982 N ADAMS RD APT 2
20-30-151-044	868 N ADAMS RD APT 8	20-30-151-122	982 N ADAMS RD APT 6
20-30-151-045	868 N ADAMS RD APT 3	20-30-151-123	982 N ADAMS RD APT 4
20-30-151-046	868 N ADAMS RD APT 7	20-30-151-124	982 N ADAMS RD APT 8
20-30-151-047	1195 DERBY RD APT 4	20-30-151-125	982 N ADAMS RD APT 3
20-30-151-048	1195 DERBY RD APT 8	20-30-151-126	982 N ADAMS RD APT 7
20-30-151-049	1195 DERBY RD APT 3	20-30-151-127	900 N ADAMS RD
20-30-151-050	1195 DERBY RD APT 7	19-25-279-017	1001 N ADAMS RD
20-30-151-051	1195 DERBY RD APT 1	19-25-279-018	1013 N ADAMS RD
20-30-151-052	1195 DERBY RD APT 5	19-25-279-019	1025 N ADAMS RD
20-30-151-053	1195 DERBY RD APT 2	19-25-279-020	1037 N ADAMS RD
20-30-151-054	1195 DERBY RD APT 6	19-25-279-021	1049 N ADAMS RD

	20-30-151-055 1225 DERBY RD APT 4 20-30-151-056 1225 DERBY RD APT 8 20-30-151-057 1225 DERBY RD APT 3 20-30-151-058 1225 DERBY RD APT 7 20-30-151-059 1225 DERBY RD APT 1 20-30-151-060 1225 DERBY RD APT 5 20-30-151-061 1225 DERBY RD APT 2 20-30-151-062 1225 DERBY RD APT 6 20-30-151-063 1245 DERBY RD APT 1 20-30-151-064 1245 DERBY RD APT 5 20-30-151-065 1245 DERBY RD APT 2 20-30-151-066 1245 DERBY RD APT 6 20-30-151-067 1245 DERBY RD APT 4 20-30-151-068 1245 DERBY RD APT 8 20-30-151-069 1245 DERBY RD APT 3 20-30-151-070 1245 DERBY RD APT 7 20-30-151-071 880 N ADAMS RD APT 1 20-30-151-072 880 N ADAMS RD APT 5 20-30-151-073 880 N ADAMS RD APT 2 20-30-151-074 880 N ADAMS RD APT 6 20-30-151-075 880 N ADAMS RD APT 4 20-30-151-076 880 N ADAMS RD APT 8 20-30-151-077 880 N ADAMS RD APT 3 20-30-151-078 880 N ADAMS RD APT 7 20-30-151-079 898 N ADAMS RD APT 1 20-30-151-080 898 N ADAMS RD APT 5 20-30-151-081 898 N ADAMS RD APT 2 20-30-151-082 898 N ADAMS RD APT 6 19-25-279-022 1051 N ADAMS RD 19-25-279-023 1063 N ADAMS RD 19-25-279-024 1075 N ADAMS RD 19-25-279-025 1087 N ADAMS RD 19-25-279-026 1099 N ADAMS RD 19-25-281-016 1055 WIMBLETON DR 19-25-281-017 1065 WIMBLETON DR 19-25-281-018 1075 WIMBLETON DR 19-25-281-019 1085 WIMBLETON DR 19-25-281-020 901 N ADAMS RD 19-25-281-021 911 N ADAMS 19-25-281-022 921 N ADAMS 19-25-281-023 931 N ADAMS 19-25-281-024 941 N ADAMS UNIT 9 19-25-281-025 951 N ADAMS 19-25-281-026 961 N ADAMS 19-25-281-027 971 N ADAMS 19-25-281-028 1084 ABBEY RD 19-25-281-029 1074 ABBEY RD 19-25-281-030 1064 ABBEY RD 19-25-281-031 1054 ABBEY RD 19-25-282-017 1078 WIMBLETON DR 19-25-282-018 1076 WIMBLETON DR 19-25-282-019 1072 WIMBLETON DR 19-25-282-020 1070 WIMBLETON DR 19-25-282-021 1064 WIMBLETON DR 19-25-282-022 1060 WIMBLETON DR 19-25-282-023 1050 WIMBLETON DR
Nature of Improvement:	This project will include the replacement of the water main and sewer improvements. The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248)530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/23/2024 & 6/30/2024
Approved minutes may be reviewed at:	City Clerk's Office or www.bhamgov.org/commissionagendas
Should you have any statement regarding the above, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**	
You or your agent may appear at the hearings to express your views; however, if you fail to protest either in person or by letter received on or before the date of the hearing, you cannot appeal the amount of the special assessment to the Michigan Tax Tribunal. Mail any correspondence to: City Clerk, P.O. Box 3001, Birmingham, MI 48012. The property owner may file a written appeal of the special assessment with the State Tax Tribunal within 30 days after the confirmation of the special assessment roll if that special assessment was protested at the hearing held for the purpose of confirming the roll. All special assessments, including installment payments, shall, from the date of the confirmation thereof, constitute a lien on the respective lots or parcels assessed, and until paid shall be charged against the respective owners of the lots or parcels assessed.	
Persons with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk's Office at 248.530.1880 (voice) or 248.644.3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.	

Parcel Identification Number	First Owner Name	Postal Address	POSTALCITY	POSTALSTAT	POSTALZIP5	PNUM	Postal City Postal State Postal Zip 5
1925279017	ALLISON GREENE LVNG TRUST	1001 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-279-017	BIRMINGHAM, MI 48009
1925279018	SHANTHI LAKSHMI SIVANANDHAM	1013 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-279-018	BIRMINGHAM, MI 48009
1925279019	WALTER PALAMARCHUK	980 WORTHINGTON RD	BIRMINGHAM	MI	48009	08-19-25-279-019	BIRMINGHAM, MI 48009
1925279020	SABAH KEER	1037 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-279-020	BIRMINGHAM, MI 48009
1925279021	SHARON N MURPHY	1049 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-279-021	BIRMINGHAM, MI 48009
1925279022	SONESCOTT REALTY LLC	PO BOX 1628	BIRMINGHAM	MI	48012	08-19-25-279-022	BIRMINGHAM, MI 48012
1925279023	SHARON SUE SPEYER TRUST	1063 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-279-023	BIRMINGHAM, MI 48009
1925279024	PAMELA A MEEK	1075 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-279-024	BIRMINGHAM, MI 48009
1925279025	HARRY S RADCLIFF JR REVOC TRUST	33 N MAIN ST	CLARKSTON	MI	48346	08-19-25-279-025	CLARKSTON, MI 48346
1925279026	JOEL J REMY	410 EVERNIA ST APT 515	WEST PALM BEACH	FL	33401	08-19-25-279-026	WEST PALM BEACH, FL 33401
1925281016	JOSEPH PARADISO	1055 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-281-016	BIRMINGHAM, MI 48009
1925281017	JOSEPH LEIDER	2820 WOODSLEE DR	ROYAL OAK	MI	48073	08-19-25-281-017	ROYAL OAK, MI 48073
1925281018	AMD HOLDINGS LLC	19091 BEDFORD ST	BEVERLY HILLS	MI	48025	08-19-25-281-018	BEVERLY HILLS, MI 48025
1925281019	RICHARD HEGGIE	1085 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-281-019	BIRMINGHAM, MI 48009
1925281020	DANIEL JEMINI	901 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-281-020	BIRMINGHAM, MI 48009
1925281021	TITAS LAURINAITIS	705 DAVIS AVE	BIRMINGHAM	MI	48009	08-19-25-281-021	BIRMINGHAM, MI 48009
1925281022	THOMAS J DECEMBER	921 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-281-022	BIRMINGHAM, MI 48009
1925281023	FRANK MONAGHAN	1039 N OLD WOODWARD AVE UNIT 5	BIRMINGHAM	MI	48009	08-19-25-281-023	BIRMINGHAM, MI 48009
1925281024	PENSCO TRUST COMPANY	5823 WELLWOOD DR	ROCHESTER	MI	48306	08-19-25-281-024	ROCHESTER, MI 48306
1925281025	MARK FLESZAR	951 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-281-025	BIRMINGHAM, MI 48009
1925281026	AI HOME PROPERTIES LLC	1407 WOODGLEN LN	BLOOMFIELD	MI	48304	08-19-25-281-026	BLOOMFIELD, MI 48304
1925281027	JANET K TALBOYS INTER VIVOS TRUST	971 N ADAMS RD	BIRMINGHAM	MI	48009	08-19-25-281-027	BIRMINGHAM, MI 48009
1925281028	YVONNE CHAN	316 SHELL GATE RD	ALAMEDA	CA	94501	08-19-25-281-028	ALAMEDA, CA 94501
1925281029	KATHLEEN C RAFFERTY	1170 ARDEN LN	BIRMINGHAM	MI	48009	08-19-25-281-029	BIRMINGHAM, MI 48009
1925281030	MONIQUE CLARK	1064 ABBEY RD	BIRMINGHAM	MI	48009	08-19-25-281-030	BIRMINGHAM, MI 48009
1925281031	MAJID PEZHMAN	5598 WHITE HALL CIR	WEST BLOOMFIELD	MI	48323	08-19-25-281-031	WEST BLOOMFIELD, MI 48323
1925282017	CAROLYN NESBITT TRUST	5964 PELICAN BAY BLVD APT 435	NAPLES	FL	34108	08-19-25-282-017	NAPLES, FL 34108
1925282018	JOLENE B SCAVONE LVNG TRUST	1076 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-282-018	BIRMINGHAM, MI 48009
1925282019	ROBERT BROWN JR	1072 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-282-019	BIRMINGHAM, MI 48009
1925282020	ROBERT GEENENS	1070 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-282-020	BIRMINGHAM, MI 48009
1925282021	SANDRA COLDEN	1064 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-282-021	BIRMINGHAM, MI 48009
1925282022	DEBORAH UNDERWOOD	1060 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-282-022	BIRMINGHAM, MI 48009
1925282023	LISA BURK	1050 WIMBLETON DR	BIRMINGHAM	MI	48009	08-19-25-282-023	BIRMINGHAM, MI 48009
2030151007	MAHA BANNO	1109 DERBY RD APT 4	BIRMINGHAM	MI	48009	08-20-30-151-007	BIRMINGHAM, MI 48009
2030151008	REGINA EBURUCHE	1109 DERBY RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-008	BIRMINGHAM, MI 48009
2030151009	BARBARA CHAMBERLIN	1109 DERBY RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-009	BIRMINGHAM, MI 48009
2030151010	PENSO TR CO CUSTODIAN	5823 WELLWOOD DR	ROCHESTER	MI	48306	08-20-30-151-010	ROCHESTER, MI 48306
2030151012	MICHELE CONNER	1109 DERBY RD APT 5	BIRMINGHAM	MI	48009	08-20-30-151-012	BIRMINGHAM, MI 48009
2030151013	SHEILA EVANS	1109 DERBY RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-013	BIRMINGHAM, MI 48009
2030151014	JAY EDWIN BALASZ	419 MICHIGAN AVE	CHARLEVOIX	MI	49720	08-20-30-151-014	CHARLEVOIX, MI 49720
2030151011	MARY JANE KRIEGER	1109 DERBY RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-011	BIRMINGHAM, MI 48009
2030151015	NAK INVESTMENTS LLC	1127 DERBY RD APT 4	BIRMINGHAM	MI	48009	08-20-30-151-015	BIRMINGHAM, MI 48009
2030151016	OLGA A NOCHTCHIK	1127 DERBY RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-016	BIRMINGHAM, MI 48009
2030151017	WILBUR GALEN GARST JR TRUST	1127 DERBY RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-017	BIRMINGHAM, MI 48009
2030151018	ACETYLENE LLC	25875 BALSAM RD	FRANKLIN	MI	48025	08-20-30-151-018	FRANKLIN, MI 48025
2030151019	SALLY K HUTHWAITE	1127 DERBY RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-019	BIRMINGHAM, MI 48009
2030151020	LAWRENCE T RYAN	1127 DERBY RD APT 5	BIRMINGHAM	MI	48009	08-20-30-151-020	BIRMINGHAM, MI 48009
2030151021	DOROTHY G JOHNSON TRUST	1127 DERBY RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-021	BIRMINGHAM, MI 48009
2030151022	CHRISTOPHER DUFF	1127 DERBY RD APT 6	BIRMINGHAM	MI	48009	08-20-30-151-022	BIRMINGHAM, MI 48009
2030151023	MARGARET HAMM	1155 DERBY RD APT 4	BIRMINGHAM	MI	48009	08-20-30-151-023	BIRMINGHAM, MI 48009
2030151024	ODETA MUCAJ	1155 DERBY RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-024	BIRMINGHAM, MI 48009
2030151025	SHARON L MICHAEL	1155 DERBY RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-025	BIRMINGHAM, MI 48009
2030151026	WILBUR GALEN GARST JR TRUST	1127 DERBY RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-026	BIRMINGHAM, MI 48009
2030151027	TITAS LAURINAITIS	705 DAVIS AVE	BIRMINGHAM	MI	48009	08-20-30-151-027	BIRMINGHAM, MI 48009
2030151028	WILBUR GALEN GARST JR TRUST	1127 DERBY RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-028	BIRMINGHAM, MI 48009
2030151029	MARGARITA DAVYDOVA	1155 DERBY RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-029	BIRMINGHAM, MI 48009
2030151030	SUZANNE TAKLA	7035 CROCKETT RIDGE DR	RICHMOND	TX	77406	08-20-30-151-030	RICHMOND, TX 77406
2030151031	SURINDER CHAUHAN	731 CLARA CT	LAKE OSWEGO	OR	97034	08-20-30-151-031	LAKE OSWEGO, OR 97034
2030151032	MICHELLE A STASYUK	850 N ADAMS RD APT 5	BIRMINGHAM	MI	48009	08-20-30-151-032	BIRMINGHAM, MI 48009
2030151033	CAROLYN J BUTCHER	850 N ADAMS RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-033	BIRMINGHAM, MI 48009
2030151034	LIAM CAPITAL LLC	5859 BRAEMORE DR	CANTON	MI	48187	08-20-30-151-034	CANTON, MI 48187
2030151035	MARK ISAKOV	850 N ADAMS RD APT 4	BIRMINGHAM	MI	48009	08-20-30-151-035	BIRMINGHAM, MI 48009
2030151036	JACLYN ROTH SZILAGYI	850 N ADAMS RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-036	BIRMINGHAM, MI 48009
2030151037	SANDRA JACKSON	850 N ADAMS RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-037	BIRMINGHAM, MI 48009
2030151038	MASOUD POUREBRAHIMI	850 N ADAMS RD APT 7	BIRMINGHAM	MI	48009	08-20-30-151-038	BIRMINGHAM, MI 48009
2030151040	FELICIA L CALABRESE	868 N ADAMS RD APT 5	BIRMINGHAM	MI	48009	08-20-30-151-040	BIRMINGHAM, MI 48009
2030151041	JANE SOLOMON DECL OF TRUST	8175 HENDRIE BLVD	HUNTINGTON WOODS	MI	48070	08-20-30-151-041	HUNTINGTON WOODS, MI 48070
2030151042	ALIREZA KAMALI	875 GREENVIEW CT APT 64	ROCHESTER HILLS	MI	48307	08-20-30-151-042	ROCHESTER HILLS, MI 48307
2030151039	JACK BELCHINSKY	1703 WHITEHALL DR UNIT 1C	LONGMONT	CO	80504	08-20-30-151-039	LONGMONT, CO 80504
2030151044	DANA LORRAINE LASKOWSKY BILICKI	3822 QUARTON RD	BLOOMFIELD HILLS	MI	48302	08-20-30-151-044	BLOOMFIELD HILLS, MI 48302
2030151043	LSI HOLDINGS LLC	1120 N GLENHURST DR	BIRMINGHAM	MI	48009	08-20-30-151-043	BIRMINGHAM, MI 48009
2030151045	ABOLGHASEM KAMALI	875 GREENVIEW CT APT 64	ROCHESTER HILLS	MI	48307	08-20-30-151-045	ROCHESTER HILLS, MI 48307
2030151046	ABOLGHASEM KAMALI	875 GREENVIEW CT APT 64	ROCHESTER HILLS	MI	48307	08-20-30-151-046	ROCHESTER HILLS, MI 48307
2030151047	BRIAN HILDEBRAND	1057 PRAGUE ST	SAN FRANCISCO	CA	94112	08-20-30-151-047	SAN FRANCISCO, CA 94112
2030151048	CHRISTOPHER D KAYE	1031 MADISON ST	BIRMINGHAM	MI	48009	08-20-30-151-048	BIRMINGHAM, MI 48009
2030151049	CARLOS ARTUTRO MUNOZ-ARAMBURU	1195 DERBY RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-049	BIRMINGHAM, MI 48009
2030151050	VASILE BOZINTAN	29206 CHELSEA XING	FARMINGTON HILLS	MI	48331	08-20-30-151-050	FARMINGTON HILLS, MI 48331
2030151051	ANDY CHAPMAN	552 W JEFFERSON ST	PETOSKEY	MI	49770	08-20-30-151-051	PETOSKEY, MI 49770
2030151052	SCOTT HILL	932 HEMLOCK DR	OXFORD	MI	48370	08-20-30-151-052	OXFORD, MI 48370
2030151053	STEPHEN HERSHFIELD	1195 DERBY RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-053	BIRMINGHAM, MI 48009
2030151054	PENSCO TRUST CO	5823 WELLWOOD DR	ROCHESTER	MI	48306	08-20-30-151-054	ROCHESTER, MI 48306
2030151055	AMJAY CAPITAL LLC	2804 ORCHARD LAKE RD STE 203	KEEGO HARBOR	MI	48320	08-20-30-151-055	KEEGO HARBOR, MI 48320
2030151056	SRINIVAS NAMA	1225 DERBY RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-056	BIRMINGHAM, MI 48009
2030151057	KATHY MARSHALL	201 W BIG BEAVER RD STE 1200	TROY	MI	48084	08-20-30-151-057	TROY, MI 48084
2030151058	HORST GRIESSER	520 MANITOU LN	LAKE ORION	MI	48362	08-20-30-151-058	LAKE ORION, MI 48362
2030151059	KATHY MARSHALL	201 W BIG BEAVER RD STE 1200	TROY	MI	48084	08-20-30-151-059	TROY, MI 48084
2030151060	STACIE N NISKAR	1225 DERBY RD APT 5	BIRMINGHAM	MI	48009	08-20-30-151-060	BIRMINGHAM, MI 48009
2030151061	MARY SHEARER	1225 DERBY RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-061	BIRMINGHAM, MI 48009
2030151062	KENNETH HURTT	PO BOX 285	SOUTHFIELD	MI	48037	08-20-30-151-062	SOUTHFIELD, MI 48037
2030151063	LEON O BRAISTED III	1245 DERBY RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-063	BIRMINGHAM, MI 48009
2030151064	ROBERT FOLIN	4909 SCHAEFER CT	BETTENDORF	IA	52722	08-20-30-151-064	BETTENDORF, IA 52722
2030151065	LEON PAUL BURGMAN	1245 DERBY RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-065	BIRMINGHAM, MI 48009
2030151066	BRENDA G SHUFELT	1245 DERBY RD APT 6	BIRMINGHAM	MI	48009	08-20-30-151-066	BIRMINGHAM, MI 48009
2030151067	ALEXAND LLC	1911 SHERWOOD GLN	BLOOMFIELD HILLS	MI	48302	08-20-30-151-067	BLOOMFIELD HILLS, MI 48302
2030151068	BRUCE E SMITH	2105 VINSETTA BLVD	ROYAL OAK	MI	48073	08-20-30-151-068	ROYAL OAK, MI 48073
2030151070	MARK A ROBY	1245 DERBY RD APT 7	BIRMINGHAM	MI	48009	08-20-30-151-070	BIRMINGHAM, MI 48009
2030151069	PENSCO TRUST COMPANY, FBO ROBERT G SIRNA IRA	5823 WELLWOOD DR	ROCHESTER	MI	48306	08-20-30-151-069	ROCHESTER, MI 48306
2030151071	STEPHEN T KWASNY TRUST	880 N ADAMS RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-071	BIRMINGHAM, MI 48009
2030151072	LSI HOLDINGS LLC	1120 N GLENHURST DR	BIRMINGHAM	MI	48009	08-20-30-151-072	BIRMINGHAM, MI 48009
2030151073	CHRISTINE KARAZIM	290 CHESTERFIELD RD	BLOOMFIELD HILLS	MI	48304	08-20-30-151-073	BLOOMFIELD HILLS, MI 48304
2030151074	LUIS LOPEZ COZAR	880 N ADAMS RD APT 6	BIRMINGHAM	MI	48009	08-20-30-151-074	BIRMINGHAM, MI 48009
2030151075	VIRGINIA GRAHAM	880 N ADAMS RD APT 4	BIRMINGHAM	MI	48009	08-20-30-151-075	BIRMINGHAM, MI 48009
2030151076	JEFFREY L KNIGHT	880 N ADAMS RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-076	BIRMINGHAM, MI 48009
2030151078	LINDA A BURTON	880 N ADAMS RD APT 7	BIRMINGHAM	MI	48009	08-20-30-151-078	BIRMINGHAM, MI 48009
2030151077	WILBUR GALEN GARST JR TRUST	1127 DERBY RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-077	BIRMINGHAM, MI 48009
2030151079	ANDREA M WALWORTH	898 N ADAMS RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-079	BIRMINGHAM, MI 48009

2030151080	ELAINE H STREIFF	898 N ADAMS RD APT 5	BIRMINGHAM	MI	48009	08-20-30-151-080	BIRMINGHAM, MI 48009
2030151081	LINDA ANN MERLO LLC	PO BOX 1651	BIRMINGHAM	MI	48012	08-20-30-151-081	BIRMINGHAM, MI 48012
2030151082	DAVID MAHAZ	898 N ADAMS RD APT 6	BIRMINGHAM	MI	48009	08-20-30-151-082	BIRMINGHAM, MI 48009
2030151083	LSI HOLDINGS LLC	1120 N GLENHURST DR	BIRMINGHAM	MI	48009	08-20-30-151-083	BIRMINGHAM, MI 48009
2030151084	JERRY BILLITER	1012 BLUE WING CT	VENICE	FL	34293	08-20-30-151-084	VENICE, FL 34293
2030151085	JOHN J O'NEILL	898 N ADAMS RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-085	BIRMINGHAM, MI 48009
2030151086	HINESITE INVESTMENTS LLC	PO BOX 1651	BIRMINGHAM	MI	48012	08-20-30-151-086	BIRMINGHAM, MI 48012
2030151087	KIRK KARAMANIAN	655 OAKLAND AVE	BIRMINGHAM	MI	48009	08-20-30-151-087	BIRMINGHAM, MI 48009
2030151088	BKT VENTURES LLC	1958 BUCKTHORN CT	TROY	MI	48098	08-20-30-151-088	TROY, MI 48098
2030151089	CHRISTOPHER F HINES	PO BOX 1651	BIRMINGHAM	MI	48012	08-20-30-151-089	BIRMINGHAM, MI 48012
2030151090	MERYL GARDYNIK	31746 SHERIDAN DR	BEVERLY HILLS	MI	48025	08-20-30-151-090	BEVERLY HILLS, MI 48025
2030151091	LSI HOLDINGS LLC	1120 N GLENHURST DR	BIRMINGHAM	MI	48009	08-20-30-151-091	BIRMINGHAM, MI 48009
2030151092	ABOLGHASEM KAMALI	875 GREENVIEW CT APT 64	ROCHESTER HILLS	MI	48307	08-20-30-151-092	ROCHESTER HILLS, MI 48307
2030151093	DAVID PEREIARA	946 N ADAMS RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-093	BIRMINGHAM, MI 48009
2030151094	NUBIA PELAEZ-RODRIGUEZ	946 N ADAMS RD APT 6	BIRMINGHAM	MI	48009	08-20-30-151-094	BIRMINGHAM, MI 48009
2030151095	MICHAEL OSTROWSKI	928 N ADAMS RD APT 4	BIRMINGHAM	MI	48009	08-20-30-151-095	BIRMINGHAM, MI 48009
2030151096	NORTH ADAMS LLC	PO BOX 15536	DETROIT	MI	48215	08-20-30-151-096	DETROIT, MI 48215
2030151097	CHRISTOPHER F HINES	PO BOX 1651	BIRMINGHAM	MI	48012	08-20-30-151-097	BIRMINGHAM, MI 48012
2030151098	MARVIN E DRAYTON	928 N ADAMS RD APT 7	BIRMINGHAM	MI	48009	08-20-30-151-098	BIRMINGHAM, MI 48009
2030151099	HELEN CHEN-CAO	928 N ADAMS RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-099	BIRMINGHAM, MI 48009
2030151100	KIRK KARAMANIAN	655 OAKLAND AVE	BIRMINGHAM	MI	48009	08-20-30-151-100	BIRMINGHAM, MI 48009
2030151102	EL KRAS HOLDINGS LLC	2598 BUCKINGHAM AVE	BIRMINGHAM	MI	48009	08-20-30-151-102	BIRMINGHAM, MI 48009
2030151101	FARSHAD ADIB	PO BOX 1854	TROY	MI	48099	08-20-30-151-101	TROY, MI 48099
2030151103	RUDOLPH C VULPE	3498 ERIE DR	ORCHARD LAKE	MI	48324	08-20-30-151-103	ORCHARD LAKE, MI 48324
2030151104	STEPHANIE L SOUKAR	910 N ADAMS RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-104	BIRMINGHAM, MI 48009
2030151105	ENNA CAMPOS-GARCIA	910 N ADAMS RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-105	BIRMINGHAM, MI 48009
2030151106	910 SOUTH ADAMS LLC	4615 STONELEIGH RD	BLOOMFIELD	MI	48302	08-20-30-151-106	BLOOMFIELD, MI 48302
2030151107	SAVANNAH SCHODOWSKI	910 N ADAMS RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-107	BIRMINGHAM, MI 48009
2030151108	VASKA PETROVICH	1000 W GLENGARRY CIR	BLOOMFIELD HILLS	MI	48301	08-20-30-151-108	BLOOMFIELD HILLS, MI 48301
2030151109	DAGNYA IYLA	910 N ADAMS RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-109	BIRMINGHAM, MI 48009
2030151110	DR JOHN MAKRIS	33030 JEFFERSON AVE	SAINT CLAIR SHORES	MI	48082	08-20-30-151-110	SAINT CLAIR SHORES, MI 48082
2030151111	MONICA RAE LITTLE	964 N ADAMS RD APT 1	BIRMINGHAM	MI	48009	08-20-30-151-111	BIRMINGHAM, MI 48009
2030151112	KATHERINE SWARTZ	43728 VINTAGE OAKS DR	STERLING HEIGHTS	MI	48314	08-20-30-151-112	STERLING HEIGHTS, MI 48314
2030151113	JAMES A SIMMONS DECLARATION TRST	964 N ADAMS RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-113	BIRMINGHAM, MI 48009
2030151114	LOUISE MARIE NIZZARDI LLC	PO BOX 1651	BIRMINGHAM	MI	48012	08-20-30-151-114	BIRMINGHAM, MI 48012
2030151115	BETHANY SALTER	16969 BEECHWOOD AVE	BEVERLY HILLS	MI	48025	08-20-30-151-115	BEVERLY HILLS, MI 48025
2030151116	JAMES KELSEY	964 N ADAMS RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-116	BIRMINGHAM, MI 48009
2030151117	ABOLGHASEM KAMALI	875 GREENVIEW CT APT 64	ROCHESTER HILLS	MI	48307	08-20-30-151-117	ROCHESTER HILLS, MI 48307
2030151118	CLAIRE N KONIKOW	964 N ADAMS RD APT 7	BIRMINGHAM	MI	48009	08-20-30-151-118	BIRMINGHAM, MI 48009
2030151119	BESA PROPERTIES LLC	38543 CHELDON ST	CLINTON TWP	MI	48038	08-20-30-151-119	CLINTON TWP, MI 48038
2030151120	BOLTON FAMILY TRUST	1378 FAIRFAX ST	BIRMINGHAM	MI	48009	08-20-30-151-120	BIRMINGHAM, MI 48009
2030151121	CHRISTINE PETTWAY	982 N ADAMS RD APT 2	BIRMINGHAM	MI	48009	08-20-30-151-121	BIRMINGHAM, MI 48009
2030151122	JOSE ANTONIO GARCIA VALDEZ	200 AMYS WALK	AUBURN HILLS	MI	48326	08-20-30-151-122	AUBURN HILLS, MI 48326
2030151123	JOHN MAKRIS	33030 JEFFERSON AVE	SAINT CLAIR SHORES	MI	48082	08-20-30-151-123	SAINT CLAIR SHORES, MI 48082
2030151124	LORI A RHODES	982 N ADAMS RD APT 8	BIRMINGHAM	MI	48009	08-20-30-151-124	BIRMINGHAM, MI 48009
2030151125	ELIE SOUKAR	982 N ADAMS RD APT 3	BIRMINGHAM	MI	48009	08-20-30-151-125	BIRMINGHAM, MI 48009
2030151126	JACQUELINE K ORTWINE	982 N ADAMS RD APT 7	BIRMINGHAM	MI	48009	08-20-30-151-126	BIRMINGHAM, MI 48009
2030151127	ELIZABETH COTE BUTLER	900 N ADAMS RD UNIT 121	BIRMINGHAM	MI	48009	08-20-30-151-127	BIRMINGHAM, MI 48009
2030151001	URBANE ON ADAMS LLC	4031 CROOKS RD	ROYAL OAK	MI	48073	08-20-30-151-001	ROYAL OAK, MI 48073
2030151002	URBANE ON ADAMS LLC	4031 CROOKS RD	ROYAL OAK	MI	48073	08-20-30-151-002	ROYAL OAK, MI 48073

BIRMINGHAM
A WALKABLE CITY

June 17, 2024

TO: parcel #
NAME
ADDRESS
CITY/STATE/ZIP

Re: North Adams Resurfacing Project, Contract #12-24 (P)
Water & Sewer Laterals Special Assessment District (SAD)

To whom it may concern,

The City of Birmingham North Adams Road Resurfacing Project will start in the Summer/Fall of 2024. The project includes resurfacing the pavement from south of Madison Street to the northern City limits, as well as some water main replacement, and sewer improvements.

This project will include the replacement of the water main and sewer improvements. The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project. This will include the replacement of all sewer laterals that are 50 years of age or older, less than 6 inch diameter, or an unsuitable material. Water services less than the City minimum size of 1 inch diameter, are 60 years of age or older, or an unsuitable material will also be replaced. All unsuitable sewer laterals will be replaced with 6" schedule 40 PVC, and unsuitable water services will be replaced with new 1 inch diameter pipe. The lengths of sewer and/or water laterals replacement will be within the right-of-way. Enclosed is a map of properties included in the Sewer and Water Lateral SAD.

With this letter, you are receiving notifications for two public hearings for the Paving Special Assessment District (SAD):

- The Public Hearing of the Necessity to form a Special Assessment District for the improved road installation meeting the requirements as part of the North Adams Resurfacing Project is **Monday, July 8, 2024**, at the regularly scheduled City Commission meeting at 7:30 p.m. in City Hall at 151 Martin St.

- If necessity is determined at the July 8 hearing, a Public Hearing of Confirmation to confirm the Special Assessment District will follow on **Monday, July 22, 2024**, at the regularly scheduled City Commission meeting at 7:30 p.m. in City Hall at 151 Martin St.

Consistent with previous projects of this nature, it has been the City's policy to assess 100% of the costs of replacing the portion of unsuitable water and sewer laterals within the right-of-way to the property owner.

After the work is completed, an invoice will be generated and sent to the property owner of record for the public improvements. Payment in full will be expected within 30 days of receipt. If you are not in a position to pay off the charge in one payment, it can be broken into as many as 10 annual payments. An annual interest charge on the remaining balance, currently about 9.50 percent, will apply. Official estimates of the water and sewer lateral replacements will be provided at the Hearing of Necessity.

If you have any questions or concerns, please contact the Engineering Office at (248) 530-1850. You will have the opportunity to ask questions and speak directly to the City Commission at the Public Hearing of Necessity and at the Confirmation of the Roll.

Sincerely,

Melissa A. Coatta, P.E.
City Engineer

Funds Report				
	Available:	$6,707.99	PBP Account Number:	35884980
	Used:	$43,052.01	Indicia Number:	0008029208
	Total Pieces:	58947	Meter Number:	8029208
	Control Sum:	$49,760.00	Meter Name:	
	Resettable Piece Count:	157	Printed:	JUN 20 2024 10:56 AM
	Piece Count Value:	$100.48		

8C

NOTICE OF PUBLIC HEARING	
BIRMINGHAM CITY COMMISSION	
PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL	
Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 22, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Project Location:	North Adams Road. Below are the affected parcels: 20-30-151-001 1100 N ADAMS RD 20-30-151-002 1050 N ADAMS RD 20-30-151-007 1109 DERBY RD APT 4 20-30-151-008 1109 DERBY RD APT 8 20-30-151-009 1109 DERBY RD APT 3 20-30-151-010 1109 DERBY RD APT 7 20-30-151-011 1109 DERBY RD APT 1 20-30-151-012 1109 DERBY RD APT 5 20-30-151-013 1109 DERBY RD APT 2 20-30-151-014 1109 DERBY RD APT 6 20-30-151-015 1127 DERBY RD APT 4 20-30-151-016 1127 DERBY RD APT 8 20-30-151-017 1127 DERBY RD APT 3 20-30-151-018 1127 DERBY RD APT 7 20-30-151-019 1127 DERBY RD APT 1 20-30-151-020 1127 DERBY RD APT 5 20-30-151-021 1127 DERBY RD APT 2 20-30-151-022 1127 DERBY RD APT 6 20-30-151-023 1155 DERBY RD APT 4 20-30-151-024 1155 DERBY RD APT 8 20-30-151-025 1155 DERBY RD APT 3 20-30-151-026 1155 DERBY RD APT 7 20-30-151-027 1155 DERBY RD APT 1 20-30-151-028 1155 DERBY RD APT 5 20-30-151-029 1155 DERBY RD APT 2 20-30-151-030 1155 DERBY RD APT 6 20-30-151-031 850 N ADAMS RD APT 1 20-30-151-032 850 N ADAMS RD APT 5 20-30-151-033 850 N ADAMS RD APT 2 20-30-151-034 850 N ADAMS RD APT 6 20-30-151-035 850 N ADAMS RD APT 4 20-30-151-036 850 N ADAMS RD APT 8 20-30-151-037 850 N ADAMS RD APT 3 20-30-151-038 850 N ADAMS RD APT 7 20-30-151-039 868 N ADAMS RD APT 1 20-30-151-040 868 N ADAMS RD APT 5 20-30-151-041 868 N ADAMS RD APT 2 20-30-151-042 868 N ADAMS RD APT 6 20-30-151-043 868 N ADAMS RD APT 4 20-30-151-044 868 N ADAMS RD APT 8 20-30-151-045 868 N ADAMS RD APT 3 20-30-151-046 868 N ADAMS RD APT 7 20-30-151-047 1195 DERBY RD APT 4 20-30-151-048 1195 DERBY RD APT 8 20-30-151-049 1195 DERBY RD APT 3 20-30-151-050 1195 DERBY RD APT 7 20-30-151-051 1195 DERBY RD APT 1 20-30-151-052 1195 DERBY RD APT 5 20-30-151-053 1195 DERBY RD APT 2 20-30-151-054 1195 DERBY RD APT 6 20-30-151-055 1225 DERBY RD APT 4 20-30-151-056 1225 DERBY RD APT 8 20-30-151-057 1225 DERBY RD APT 3 20-30-151-058 1225 DERBY RD APT 7 20-30-151-059 1225 DERBY RD APT 1 20-30-151-060 1225 DERBY RD APT 5 20-30-151-061 1225 DERBY RD APT 2 20-30-151-062 1225 DERBY RD APT 6 20-30-151-063 1245 DERBY RD APT 1 20-30-151-064 1245 DERBY RD APT 5 20-30-151-065 1245 DERBY RD APT 2 20-30-151-066 1245 DERBY RD APT 6 20-30-151-067 1245 DERBY RD APT 4 20-30-151-068 1245 DERBY RD APT 8 20-30-151-069 1245 DERBY RD APT 3 20-30-151-070 1245 DERBY RD APT 7 20-30-151-071 880 N ADAMS RD APT 1 20-30-151-072 880 N ADAMS RD APT 5 20-30-151-073 880 N ADAMS RD APT 2 20-30-151-074 880 N ADAMS RD APT 6 20-30-151-075 880 N ADAMS RD APT 4 20-30-151-076 880 N ADAMS RD APT 8 20-30-151-077 880 N ADAMS RD APT 3 20-30-151-078 880 N ADAMS RD APT 7 20-30-151-079 898 N ADAMS RD APT 1 20-30-151-080 898 N ADAMS RD APT 5 20-30-151-081 898 N ADAMS RD APT 2 20-30-151-082 898 N ADAMS RD APT 6 20-30-151-083 898 N ADAMS RD APT 4 20-30-151-084 898 N ADAMS RD APT 8 20-30-151-085 898 N ADAMS RD APT 3 20-30-151-086 898 N ADAMS RD APT 7 20-30-151-087 946 N ADAMS RD APT 4 20-30-151-088 946 N ADAMS RD APT 8 20-30-151-089 946 N ADAMS RD APT 3 20-30-151-090 946 N ADAMS RD APT 7 20-30-151-091 946 N ADAMS RD APT 1 20-30-151-092 946 N ADAMS RD APT 5 20-30-151-093 946 N ADAMS RD APT 2 20-30-151-094 946 N ADAMS RD APT 6 20-30-151-095 928 N ADAMS RD APT 4 20-30-151-096 928 N ADAMS RD APT 8 20-30-151-097 928 N ADAMS RD APT 3 20-30-151-098 928 N ADAMS RD APT 7 20-30-151-099 928 N ADAMS RD APT 1 20-30-151-100 928 N ADAMS RD APT 5 20-30-151-101 928 N ADAMS RD APT 2 20-30-151-102 928 N ADAMS RD APT 6 20-30-151-103 910 N ADAMS RD APT 4 20-30-151-104 910 N ADAMS RD APT 8 20-30-151-105 910 N ADAMS RD APT 3 20-30-151-106 910 N ADAMS RD APT 7 20-30-151-107 910 N ADAMS RD APT 1 20-30-151-108 910 N ADAMS RD APT 5 20-30-151-109 910 N ADAMS RD APT 2 20-30-151-110 910 N ADAMS RD APT 6 20-30-151-111 964 N ADAMS RD APT 1 20-30-151-112 964 N ADAMS RD APT 5 20-30-151-113 964 N ADAMS RD APT 2 20-30-151-114 964 N ADAMS RD APT 6 20-30-151-115 964 N ADAMS RD APT 4 20-30-151-116 964 N ADAMS RD APT 8 20-30-151-117 964 N ADAMS RD APT 3 20-30-151-118 964 N ADAMS RD APT 7 20-30-151-119 982 N ADAMS RD APT 1 20-30-151-120 982 N ADAMS RD APT 5 20-30-151-121 982 N ADAMS RD APT 2 20-30-151-122 982 N ADAMS RD APT 6 20-30-151-123 982 N ADAMS RD APT 4 20-30-151-124 982 N ADAMS RD APT 8 20-30-151-125 982 N ADAMS RD APT 3 20-30-151-126 982 N ADAMS RD APT 7 20-30-151-127 900 N ADAMS RD 19-25-279-017 1001 N ADAMS RD 19-25-279-018 1013 N ADAMS RD 19-25-279-019 1025 N ADAMS RD 19-25-279-020 1037 N ADAMS RD 19-25-279-021 1049 N ADAMS RD 19-25-279-022 1051 N ADAMS RD 19-25-279-023 1063 N ADAMS RD 19-25-279-024 1075 N ADAMS RD 19-25-279-025 1087 N ADAMS RD 19-25-279-026 1099 N ADAMS RD 19-25-281-016 1055 WIMBLETON DR 19-25-281-017 1065 WIMBLETON DR 19-25-281-018 1075 WIMBLETON DR 19-25-281-019 1085 WIMBLETON DR 19-25-281-020 901 N ADAMS RD 19-25-281-021 911 N ADAMS 19-25-281-022 921 N ADAMS 19-25-281-023 931 N ADAMS 19-25-281-024 941 N ADAMS UNIT 9 19-25-281-025 951 N ADAMS 19-25-281-026 961 N ADAMS 19-25-281-027 971 N ADAMS 19-25-281-028 1084 ABBEY RD 19-25-281-029 1074 ABBEY RD 19-25-281-030 1064 ABBEY RD 19-25-281-031 1054 ABBEY RD 19-25-282-017 1078 WIMBLETON DR 19-25-282-018 1076 WIMBLETON DR 19-25-282-019 1072 WIMBLETON DR 19-25-282-020 1070 WIMBLETON DR 19-25-282-021 1064 WIMBLETON DR 19-25-282-022 1060 WIMBLETON DR 19-25-282-023 1050 WIMBLETON DR
Nature of Improvement:	This project will include the replacement of the water main and sewer improvements. The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248)530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/23/2024 & 6/30/2024
Approved minutes may be reviewed at:	City Clerk's Office or www.bhamgov.org/commissionagendas
Should you have any statement regarding the above, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**	
You or your agent may appear at the hearings to express your views; however, if you fail to protest either in person or by letter received on or before the date of the hearing, you cannot appeal the amount of the special assessment to the Michigan Tax Tribunal. Mail any correspondence to: City Clerk, P.O. Box 3001, Birmingham, MI 48012. The property owner may file a written appeal of the special assessment with the State Tax Tribunal within 30 days after the confirmation of the special assessment roll if that special assessment was protested at the hearing held for the purpose of confirming the roll. All special assessments, including installment payments, shall, from the date of the confirmation thereof, constitute a lien on the respective lots or parcels assessed, and until paid shall be charged against the respective owners of the lots or parcels assessed.	
Persons with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk's Office at 248.530.1880 (voice) or 248.644.3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.	

AI

FROM PAGE 1

their confidence in autonomous vehicles, fears around artificial intelligence and why they won't leave the Bay Area.

Q: What is Applied Intuition?

Younis: We build software and AI products that ultimately help people who are in the vehicle industry (whether private or commercial vehicles).

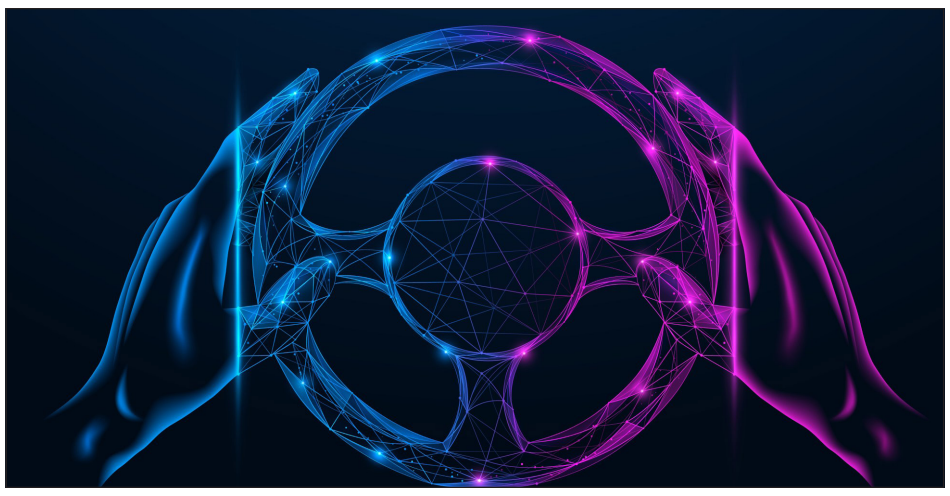
Q: What interested you in developing AI for vehicles?

Younis: So I went to the General Motors Institute for undergrad and I worked at General Motors. And Peter has multiple generations of General Motors alums in his family. We're both from Detroit.

We grew up there (Peter and I) and we've lived out here now for 10 plus years. But within the automotive industry, we realized very quickly that General Motors actually doesn't make all the stuff that goes in the car.

We recently launched a vehicle platform. So the platform is in the physical vehicle that runs the software and helps you run the applications in the vehicle.

And then we are in the (military) defense business, which is doing some off-road autonomy.



COURTESY PHOTO

Artificial intelligence controls the car. An unmanned vehicle. Polygonal design of interconnected lines and points.

So you can summarize that as we're like a vehicle software supplier. We supply software that goes on vehicles and to engineers who are building vehicles.

Q: Safety concerns have been raised over autonomous driving in recent months. How does Applied Intuition address these concerns?

Ludwig: The safety (of autonomous vehicles) does vary depending on the company that's working on the technology.

One of our big focuses is we actually enable companies to make these systems more safe with a variety of tools and infrastructure that we provide. In general, companies try extremely hard to make these systems very safe.

These are systems that meaningfully are generally safer than human drivers, and I think in the long term, these systems will be much, much safer than human drivers.

But right now there is this differentiation between what's called driver assistance versus a robot taxi.

Q: You announced a partnership with Porsche recently — does this mean we'll be seeing Porsche autonomous cars on the road anytime soon?

Younis: I can't speak for Porsche, but I can talk about us — and yes — you will see our software on many, many vehicles. We're already a supplier to 18 of the top 20 global automotive makers.

Q: Can you describe your company culture and philosophy?

Younis: We're as Bay Area of a company as you get. Most of our employees are located here in four-buildings in Mountain View. Most of our employees are software engineers and all are partners of the company.

That's a very Silicon Valley thing. And we're a venture-backed company, and the vast majority of our investors, around 90% or more, come from the Bay Area. I mean it is a Bay Area company that is funded by Bay Area investors, and is an employee base which is software engineers, who basically built their lives around here. So in that sense, we're as traditional Silicon Valley as you get.

It is just also the ethos of the company — as a Silicon Valley company in all the ways that a Silicon Valley company is defined. We're a business that functions off of our revenues. We are cash flow positive, and do not operate off of investor dollars.

Q: AI has been the talk of the town, and of the world, over the past year or longer. Are the fears people have over AI warranted?

Younis: Any time there's a new technology, there's a lack of understanding.

We're always with new technology entering uncharted territory. And so you always have to be thoughtful about how we approach it.

Take the example of self driving. There is no debate that it will save lives, because the system is always attentive. It has more sensors than human eyes, and it consistently improves.

Some people are going to be afraid of its capabilities, but that's because they don't understand the capabilities. They understand that technology works, but not always the "how."

When cell phones started coming in, there was a pretty big backlash on cell phones. Remember those bumper stickers that would say no cell phones in the car? Now, if you get in a car with someone who doesn't have a cell phone, you'll be like, "Are you crazy? How are we going to get where we're going if you don't have Google maps?"

Over the arc of human progress, we will learn how to live with AI and use it for our maximal advantage.

Q: With all the conversations over a supposed "tech exodus" to states like Texas and Florida, will you stay in the Bay Area?

Younis: I think the thing that is very hard to find outside of the Bay Area is frankly the number of software engineers that exist here that have precisely the right skills and, two, engineers who understand the value of equity.

It's easier to explain equity to somebody who's in the Bay Area. But these are some of the reasons the Bay Area is compelling — lots of people who kind of understand startup life and not only big company life.

ABOUT QASAR AND PETER

Name: Qasar Younis
Position: Co-Founder & CEO
Education: M.B.A., Harvard University
Name: Peter Ludwig
Position: Co-Founder & Chief Technical Officer
Education: Master of Science in Engineering & Computer Science, University of Michigan
Five things:

- Younis and Ludwig are Michiganders
- Their parents live a quarter mile from each other
- Their families both worked at GM
- Younis was COO of YCombinator in 2015
- Younis and Ludwig, along with the Applied Intuition team, take off their shoes and wear slippers when in the office.

We're both from Detroit. We grew up there (Peter and I) and we've lived out here now for 10 plus years. But within the automotive industry, we realized very quickly that General Motors actually doesn't make all the stuff that goes in the car.

— Qasar Younis

CHARTER TOWNSHIP OF BLOOMFIELD
ZONING BOARD OF APPEALS
Tuesday, July, 9 2024 at 7:00 P.M.
Bloomfield Township Hall

The following appeals will be heard:

1. The owner of the property is seeking approval for a Permission Request and Dimensional Variance Requests at 75 N. Berkshire Rd. for a proposed spa, pool and pool fence located in the S. Berkshire Rd. frontage.
2. The owner of the property is seeking approval for Dimensional Variance Requests and Permission Requests at 718 Browning Ct. to replace an existing wooden lower deck with a paver patio and retaining walls and encroaching into the 25 ft. Natural Features Setback, for tiered retaining wall with less than the required 8 ft. horizontal distance, a landscape wall located in the northerly side lot, and a shed located in the northerly side yard and encroaching into the required 16 ft. side yard setback.
3. The owner of the property is seeking approval for a Permission Request and a Dimensional Variance request at 3345 Chickering Ln. for a proposed hot tub located in the southerly side yard.
4. The owner of the property is seeking approval for Permission Requests and Dimensional Variances Requests for 2822 Turtle Grove for a pool, spa, pool fence and sports court located in the Square Lake Rd. secondary frontage.
5. The owner of the property is seeking approval for Permission Requests at 711 Hickory Heights Dr. for an existing hot tub, TV wall, and gas fire pit, located in the rear yard and setback at least 16 ft. from all lot lines.
6. The owner of the property is seeking approval for a Permission Request at 2747 Turtle Lake Dr. for a spa located in the rear yard and setback at least 16 ft. from all lot lines.
7. The owner of the property is seeking approval for a Permission Request at 444 Steeple Chase Ct. for a spa located in the rear yard and setback at least 16 ft. from all lot lines.
8. The owner of the property is seeking approval for a Dimensional Variance Requests at 4364 Orchard Hill Dr. for a garage addition encroaching into the required 16 ft. westerly side yard setback and for accessory space exceeding 50 % of the ground floor area of the house.
9. The owner of the property is seeking approval for a Permission Request at 1333 N. Glengarry Rd. for a spa located in the rear yard and setback at least 16 ft. from all lot lines.
10. The owner of the property is seeking approval for a Permission Request at 6380 Sunningdale Dr. for a sauna located in the rear yard and setback at least 16 ft. from all lot lines.
11. The owner of the property is seeking approval for a Permission Request and Dimensional Variance Request at 3514 Sutton Place for an addition to an existing pool house located in the Quarton Rd. secondary frontage.
12. The owner of the property is seeking approval for a Permission Request and Dimensional Variance Requests at 80 Devon Rd. for a 4 ft. high aluminum dog enclosure fence encroaching into the required 25 ft. rear yard setback and 16 ft. side yard setbacks.
13. The owner of the property is seeking approval for a Permission Request and Dimensional Variance Request at 5074 Dianna Dr. for a deck replacement located in a front yard.
14. The owner of the property is seeking approval for a Permission Request and Dimensional Variance Request at 4845 N. Adams Rd. for a shed located in the N. Adams Rd. secondary frontage.
15. The owner of the property is seeking approval for Dimensional Variances for 340 Hupp Cross for a second story addition, encroaching into the required 40 ft. front yard setback and expanding an existing non-conforming structure.
16. The owner of the property is seeking approval for Permission Requests and Dimensional Variance Requests for 3930 Devon Gables Ct. for a proposed pool, pool cabana, fire pit and foot bridges located in the Mystic Valley Dr. frontage.
17. The owner of the property is seeking approval for Permission Requests and Dimensional Variance Requests at 1729 Heron Ridge Dr. for retaining walls exceeding 4ft. in height, for retaining walls exceeding 2 ft. on the lot line, a pool encroaching into the required 25 ft. Natural Features setback, grading in the 25 ft. Natural features setback, and for not meeting the required Lakefront average setback.
18. The owner of the property is seeking approval for a Dimensional Variance Request at 42825 Woodward Ave. for Green Lantern pizza wall sign with a logo exceeding 5% of the overall sign area.
19. The owner of the property is seeking approval for a Dimensional Variance Request at 2300 Telegraph Rd. for a secondary wall sign for Hawthorne.

Complete copies of the appeals can be viewed at the Township Hall during regular business hours in the Planning, Building, and Ordinance Department, from 7:00 a.m. to 5:30 p.m., Monday through Thursday. Comments may be provided at the public hearing or by writing to: Bloomfield Township Planning, Building, and Ordinance Department, P.O. Box 489, Bloomfield Hills, MI 48303-0489- Telephone: (248) 433-7795 - Fax: (248) 433-7729.

Or via email to Zba-publiccomment@bloomfieldtwp.org

Written comment received after the packet has been posted will be provided to Board members for review prior to the meeting. To view the Zoning Board of Appeals packet posted on Documents on Demand by the end of business Wednesday, July 3rd you can use the QR code to the right.

SCAN ME

To view the meeting live, go to Comcast Channel 15 or AT&T Channel 99 or via the internet: Bloomfield Twp, MI - Public Meetings

PUBLIC NOTICE
THE PUBLIC ACCURACY TEST
CITY OF BLOOMFIELD HILLS

NOTICE IS HEREBY GIVEN: that the Public Accuracy Test for the August 6, 2024 State Primary Election has been scheduled for Tuesday, June 25, 2024 at 4:30 pm at the City Offices, 45 East Long Lake Road, Bloomfield Hills, Michigan 48304.

The Public Accuracy Test is conducted to determine the accuracy of the tabulating equipment and programs which will be used to tabulate voted ballots and the results of the election in the manner prescribed by law.

Candidates and other interested parties are invited to attend.

For further information contact the City Clerk's Office at 248-530-1403.

Dated: June 17, 2024
Publish: Sunday, June 23, 2024

ELECTION 2024

For many voters, the Biden-Trump debate means a tough choice just got tougher

By Calvin Woodward
The Associated Press

WASHINGTON » The sound you might have heard after the presidential debate this past week was of voters falling between a rock and a hard place.

Apart from the sizable and pumped-up universe of Donald Trump's supporters, the debate suddenly crystalized the worries of many Americans, a portion of President Joe Biden's supporters among them, that neither man is fit to lead the nation.

Heading into the first debate of the general election campaign, voters had faced a choice between two strikingly unpopular candidates. They then watched as Trump told a stream of falsehoods with sharpness, vigor and conviction, while Biden struggled mightily to land debating points and even to get through many sentences. It added to doubts about the 81-year-old Democratic president's fitness to be in office for four more years.

Now, the options are even more dispiriting for many Democrats, undecided voters and anti-Trump Republicans. More than a few people came away from watching the debate very conflicted.

Outside a Whole Foods in downtown Denver on Friday, registered Democrat Matthew Toellner tilted his head sideways, mouth agape, in an imitation of his favored candidate, Biden, who was seen doing that at times on the split screen when Trump was talking Thursday night.

"I'm going to vote for Biden," said Toellner, 49, leaning against the wood siding of the grocery store. "Actually, I might not."

A few minutes later, Toellner looked out to the street and rethought again. "I'm going to vote for Biden, I think I'd be a fool not to. But I just hate that I have to."

His appeal to Biden and Democrats: "Please step down, get somebody electable."

On a Detroit park bench, Arabia Simeon was left feeling politically homeless after voting Democratic in the past two presidential elections. "It just feels like we're doomed no matter what," she said.

Trump's disregard for the facts suffused his arguments, though he was rarely challenged on the specifics during the debate. On abortion, for example, one of America's most divisive issues for generations, the former Republican president claimed there is universal agreement that states should decide on the legality of it. There is ferocious argument about that.

But did that matter? The public reaction, in dozens of interviews across the country, brought to mind Bill Clinton's post-presidency assessment of what voters want in fraught times: "When people feel uncertain, they'd rather have someone strong and wrong than weak and right."

CAROLYN KASTER – THE ASSOCIATED PRESS

Jocardo Ralston, 47, from Pennsylvania, looks up to a television to watch the presidential debate between President Joe Biden and Republican presidential candidate former President Donald Trump at Tillie's Lounge on Thursday, in Cincinnati.

The debate unmoored Simeon just as it did Toellner.

The 27-year-old owner of a Detroit start-up went into debate night deciding between Biden and an independent candidate, the most prominent of whom is long shot Robert F. Kennedy Jr. Now she's leaning against Biden.

"I think it just kind of validated the feeling that I was having that this election is going to be extremely hectic, and it's no longer the conversation of the lesser of two evils for me," she said from a park bench on a work break. "It's more like both of these candidates don't feel like viable options."

Simeon said that as a Black and queer person, "It's really disheartening to know that no matter how far we come as a country, we're still going to factory reset when it comes to president and have to make a choice between two white men."

In large part, Democratic lawmakers in Washington and party officials across the United States closed ranks around Biden despite the panic that gripped many of them from his debate performance. But their remarks were measured, seeming to leave an opening if Biden were to make the extraordinary decision to have Democrats find another nominee.

"It's President Biden's decision what he wants to do with his life," said Sharif Street, chair of the Pennsylvania Democratic Party and a state senator. ."So far, he's decided he's our nominee, and I'm with him."

To be sure, plenty of Biden supporters saw nothing to throw them off, as much as they tended to think he blew it.

"Worrisome," Jocardo Ralston of Philadelphia said of Biden's turn on the stage. Yet, Ralston said, "I'm not conflicted, nor do I feel that I am choosing the lesser of two evils. ... Biden is not the ideal choice for many, but he is the only choice for me, without regrets or hesitation."

ELECTION 2024

Jan. 6 shadows the 2024 campaign, but not on the debate stage. That alarms democracy advocates

By Lisa Mascaro
The Associated Press

WASHINGTON » In the first presidential debate, Republican Donald Trump skimmed over the Jan. 6, 2021, attack at the Capitol, shifted blame for the violent mob siege and declined repeatedly to state unequivocally that he will accept the results of this year's White House election.

And President Joe Biden, who has said the work of his presidency is to restore the soul of the nation, flubbed and floundered, failing to forcefully confront, contradict and hold Trump, the indicted former president, accountable for the attack on the election — and democracy.

It is an extraordinary moment, or lack of one, that is alarming to democracy advocates, the far-reaching effort to overturn the 2020 election and the subsequent insurrection that defined the Trump presidency fading from view during the opening debate of the general election campaign.

Mississippi Rep. Bennie Thompson, the Democrat who chaired the House's Jan. 6 committee investigation in the last Congress, said it is a deeply unfortunate situation.

"We could have a Jan. 6, 2.0," Thompson said Friday outside the Capitol.

The outcome underscores the choice Americans face this fall as the riot over the 2020 election remains fundamental to the 2024 campaign, but also obscured by it, despite the four-count federal indictment against Trump for working to overturn the results four years ago in the run-up to the violent siege and despite the convictions of more than 1,000 people in the Capitol attack.

It comes as the Supreme Court is weighing cases involving Jan. 6, including a decision Friday that makes it easier for some rioters to contest their charges and convictions, and another expected Monday on whether Trump can claim immunity in the federal election case.

All told, what seemed politically untenable, as the defeated Trump departed Washington downcast on Biden's inauguration day on Jan. 20, 2021, is now within reach as the president who tried to overturn an election is the Republican Party's presumptive nominee, edging toward an Oval Office return.

"We are four months away from the first presidential election since a violent attack on our Capitol. ... And the man responsible for that — Donald Trump — is currently the leading candidate," said Ian Bassin, executive director of the advocacy group Protect Democracy, which works to counter authoritarianism.

"You'd think that alone would be disqualifying, or at a minimum would be the central focus of the election," he said.

And yet, Bassin said, the topic was "relegated to an afterthought" in the debate, "and the current president is struggling to press the case on why this issue should be of existential importance."

The forum itself is not necessarily to blame. The moderators pressed the candidates, asking Trump not once, but repeatedly, whether he would commit to not having another Jan. 6 and accepting the results of the election this time.

Trump insisted he had "virtually nothing to do" with the storming of the Capitol on Jan. 6 and tried to shift blame to then-House Speaker Nancy Pelosi, D-Calif., repeating his false claims about the delay in sending in the National Guard.

Biden, whose underwhelming debate performance of stunted answers and trailing thoughts has sent the Democratic Party into turmoil, struggled to deliver a cohesive response, despite having given high-profile speeches about Jan. 6, including on the first anniversary.

"Look, he encouraged those folks to go up on Capitol Hill," Biden said on the debate stage.

Thompson, whose committee produced a lengthy, 1,000-plus page report on its investigation into Trump's monthslong attempt to overturn the election and the storming of the Capitol, said Biden missed a "golden opportunity" to set the record straight as millions of people watched the debate.

NOTICE OF MEETING

In accordance with Section 211.53b of the Michigan General Property Tax Laws, the City of Rochester Hills Board of Review will meet Tuesday, July 16, 2024 at 3:00 pm at the City of Rochester Hills Offices, 1000 Rochester Hills Drive, Rochester Hills, Oakland County, Michigan 48309.

The purpose of this meeting is to correct clerical errors or mutual mistakes of fact for 2024 and 2023, review poverty exemption appeals for 2024 and correct the property transfer status 2021 through the 2024 assessment years.

Laurie A Taylor, Director
Department of Assessing
City of Rochester Hills
248 656-4605

6-30-24
POSTED:
City of Rochester Hills Communication Center

SUMMARY
ORDINANCE NO. C-6-2024
CITY OF FARMINGTON HILLS
OAKLAND COUNTY, MICHIGAN

NOTICE of an Ordinance amending the Farmington Hills Code of Ordinances, Chapter 34, "Zoning," Article 5.0, "Site Standards," Section 5.5, "Signs," to include a new Subsection 3.A.ix.h addressing the area of electronic display areas.

A full copy of the Ordinance is on file in the Clerk's Office for public review between the hours of 8:30am and 4:30pm Monday through Friday.

Section 1, Ordinance Amendment	
Section 2, Repealer	
Section 3, Savings	
Section 4, Severability	
Section 5, Effective Date	The provisions of this Ordinance are ordered to take effect twenty-one (21) days after enactment.
Section 6, Date and Publication	

CARLY LINDAHL, City Clerk

Publish: Oakland Press 6/30/2024

CITY OF ROCHESTER HILLS
2024 SUMMER PROPERTY TAX BILLS HAVE BEEN MAILED

ALL SUMMER TAX BILLS FOR REAL AND PERSONAL PROPERTY LOCATED IN THE CITY OF ROCHESTER HILLS have now been mailed to all Rochester Hills property owners or their escrow agent. If your taxes are not paid through escrow and you have failed to receive a tax bill, please request a duplicate by calling the City Treasurer's Office at 248.656.4675 or in person at the City Treasurer's Office located on the upper level of City Hall. 2024 Summer Taxes are due JULY 1, 2024 and are payable without interest or penalty through Monday, SEPTEMBER 16, 2024 (normally due date is September 14 but the 14th falls on a Saturday this year so due date is extended to 16th). Tax payment must be received by the City Treasurer's Office on or before September 16, 2024; postmark is NOT honored. After September 16, 2024, interest of 1% will be added. An additional 1% will be added on the first day of each month thereafter. On February 15, 2025 a 3% penalty will be added to the unpaid balance of 2024 summer taxes. Please allow AT LEAST **5** BUSINESS DAYS for delivery of mailed payments. Treasurer has no authority to waive interest or penalty.

Residents may be eligible to defer payment of the 2024 summer tax on their principal residence through February 14, 2025 if their total household income for the 2023 calendar year did not exceed $40,000 AND they can qualify under one of the following categories:

-62 YEARS OF AGE OR OLDER, OR THE UNREMARRIED SURVIVING SPOUSE OF A PERSON WHO WAS 62 YEARS OF AGE OR OLDER AT THE TIME OF DEATH
-PARAPLEGIC, QUADRIPLEGIC
-ELIGIBLE SERVICE PERSON, ELIGIBLE VETERAN OR ELIGIBLE WIDOW OR WIDOWER
-BLIND PERSON
-TOTALLY AND PERMANENTLY DISABLED

Applications for 2024 Summer Tax Deferment are available at the City Treasurer's Office or by calling 248.656.4675 and must be filed by September 16, 2024.

- **RECURRING AUTOMATIC BILL PAYMENT** – The City will deduct the full amount of your summer and winter property tax bills from your specified checking or savings account on designated recurring dates. The summer property tax will be deducted on the due date, this year, September 16. The winter property tax can be specified to be deducted on either the last business day in December, or the due date, normally February 14. The enrollment form must be completed and submitted at least 14 days prior to the scheduled payment date. For secure online enrollment please email osieckil@rochesterhills.org. Or print the enrollment form that is available at www.rochesterhills.org/taxenroll which can either be mailed, placed in the City drop box or submitted in person at the Treasury Division counter.
- **ELECTRONIC PROPERTY TAX PAYMENT (SELF-INITIATED):** Taxes may be paid electronically using your checking or savings account. There is no charge to you to use this service. Call 1.833.440.3763 or access http://www.rochesterhills.org/paytaxes
- **CREDIT CARD PROPERTY TAX PAYMENT:** There is a 2.75% fee for this service. Access http://www.rochesterhills.org/paytaxes or call 1.833.440.3763. MasterCard, Visa, Discover and AMEX are accepted.

Note: You may check your tax payment status or print a receipt at **www.rochesterhills.org/taxlookup**

Please include parcel identification number and property address with all communications regarding taxes. We will not be mailing paid tax receipts. If you wish to receive a paid tax receipt, please use the website above to print a statement showing the receipt of payment or call the City Treasurer's Office at 248.656.4675. Please remit payments to City of Rochester Hills Taxes, 1000 Rochester Hills Drive, Rochester Hills, MI 48309-3033.

JOSEPH M. SNYDER, CFO
CITY OF ROCHESTER HILLS

Dated at Rochester Hills, MI this 30th day of June, 2024.

NOTICE OF PUBLIC HEARING
BIRMINGHAM CITY COMMISSION
PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL

Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 22, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Project Location:	North Adams Road. Below are the affected parcels:

20-30-151-001	1100 N ADAMS RD
20-30-151-002	1050 N ADAMS RD
20-30-151-007	1109 DERBY RD APT 4
20-30-151-008	1109 DERBY RD APT 8
20-30-151-009	1109 DERBY RD APT 3
20-30-151-010	1109 DERBY RD APT 7
20-30-151-011	1109 DERBY RD APT 1
20-30-151-012	1109 DERBY RD APT 5
20-30-151-013	1109 DERBY RD APT 2
20-30-151-014	1109 DERBY RD APT 6
20-30-151-015	1127 DERBY RD APT 4
20-30-151-016	1127 DERBY RD APT 8
20-30-151-017	1127 DERBY RD APT 3
20-30-151-018	1127 DERBY RD APT 7
20-30-151-019	1127 DERBY RD APT 1
20-30-151-020	1127 DERBY RD APT 5
20-30-151-021	1127 DERBY RD APT 2
20-30-151-022	1127 DERBY RD APT 6
20-30-151-023	1155 DERBY RD APT 4
20-30-151-024	1155 DERBY RD APT 8
20-30-151-025	1155 DERBY RD APT 3
20-30-151-026	1155 DERBY RD APT 7
20-30-151-027	1155 DERBY RD APT 1
20-30-151-028	1155 DERBY RD APT 5
20-30-151-029	1155 DERBY RD APT 2
20-30-151-030	1155 DERBY RD APT 6
20-30-151-031	850 N ADAMS RD APT 1
20-30-151-032	850 N ADAMS RD APT 5
20-30-151-033	850 N ADAMS RD APT 2
20-30-151-034	850 N ADAMS RD APT 6
20-30-151-035	850 N ADAMS RD APT 4
20-30-151-036	850 N ADAMS RD APT 8
20-30-151-037	850 N ADAMS RD APT 3
20-30-151-038	850 N ADAMS RD APT 7
20-30-151-039	868 N ADAMS RD APT 1
20-30-151-040	868 N ADAMS RD APT 5
20-30-151-041	868 N ADAMS RD APT 2
20-30-151-042	868 N ADAMS RD APT 6
20-30-151-043	868 N ADAMS RD APT 4
20-30-151-044	868 N ADAMS RD APT 8
20-30-151-045	868 N ADAMS RD APT 3
20-30-151-046	868 N ADAMS RD APT 7
20-30-151-047	1195 DERBY RD APT 4
20-30-151-048	1195 DERBY RD APT 8
20-30-151-049	1195 DERBY RD APT 3
20-30-151-050	1195 DERBY RD APT 7
20-30-151-051	1195 DERBY RD APT 1
20-30-151-052	1195 DERBY RD APT 5
20-30-151-053	1195 DERBY RD APT 2
20-30-151-054	1195 DERBY RD APT 6
20-30-151-055	1225 DERBY RD APT 4
20-30-151-056	1225 DERBY RD APT 8
20-30-151-057	1225 DERBY RD APT 3
20-30-151-058	1225 DERBY RD APT 7
20-30-151-059	1225 DERBY RD APT 1
20-30-151-060	1225 DERBY RD APT 5
20-30-151-061	1225 DERBY RD APT 2
20-30-151-062	1225 DERBY RD APT 6
20-30-151-063	1245 DERBY RD APT 1
20-30-151-064	1245 DERBY RD APT 5
20-30-151-065	1245 DERBY RD APT 2
20-30-151-066	1245 DERBY RD APT 6
20-30-151-067	1245 DERBY RD APT 4
20-30-151-068	1245 DERBY RD APT 8
20-30-151-069	1245 DERBY RD APT 3
20-30-151-070	1245 DERBY RD APT 7
20-30-151-071	880 N ADAMS RD APT 1
20-30-151-072	880 N ADAMS RD APT 5
20-30-151-073	880 N ADAMS RD APT 2
20-30-151-074	880 N ADAMS RD APT 6
20-30-151-075	880 N ADAMS RD APT 4
20-30-151-076	880 N ADAMS RD APT 8
20-30-151-077	880 N ADAMS RD APT 3
20-30-151-078	880 N ADAMS RD APT 7
20-30-151-079	898 N ADAMS RD APT 1
20-30-151-080	898 N ADAMS RD APT 5
20-30-151-081	898 N ADAMS RD APT 2
20-30-151-082	898 N ADAMS RD APT 6
20-30-151-083	898 N ADAMS RD APT 4
20-30-151-084	898 N ADAMS RD APT 8
20-30-151-085	898 N ADAMS RD APT 3
20-30-151-086	898 N ADAMS RD APT 7
20-30-151-087	946 N ADAMS RD APT 4
20-30-151-088	946 N ADAMS RD APT 8
20-30-151-089	946 N ADAMS RD APT 3
20-30-151-090	946 N ADAMS RD APT 7
20-30-151-091	946 N ADAMS RD APT 1
20-30-151-092	946 N ADAMS RD APT 5
20-30-151-093	946 N ADAMS RD APT 2
20-30-151-094	946 N ADAMS RD APT 6
20-30-151-095	928 N ADAMS RD APT 4
20-30-151-096	928 N ADAMS RD APT 8
20-30-151-097	928 N ADAMS RD APT 3
20-30-151-098	928 N ADAMS RD APT 7
20-30-151-099	928 N ADAMS RD APT 1
20-30-151-100	928 N ADAMS RD APT 5
20-30-151-101	928 N ADAMS RD APT 2
20-30-151-102	928 N ADAMS RD APT 6
20-30-151-103	910 N ADAMS RD APT 4
20-30-151-104	910 N ADAMS RD APT 8
20-30-151-105	910 N ADAMS RD APT 3
20-30-151-106	910 N ADAMS RD APT 7
20-30-151-107	910 N ADAMS RD APT 1
20-30-151-108	910 N ADAMS RD APT 5
20-30-151-109	910 N ADAMS RD APT 2
20-30-151-110	910 N ADAMS RD APT 6
20-30-151-111	964 N ADAMS RD APT 1
20-30-151-112	964 N ADAMS RD APT 5
20-30-151-113	964 N ADAMS RD APT 2
20-30-151-114	964 N ADAMS RD APT 6
20-30-151-115	964 N ADAMS RD APT 4
20-30-151-116	964 N ADAMS RD APT 8
20-30-151-117	964 N ADAMS RD APT 3
20-30-151-118	964 N ADAMS RD APT 7
20-30-151-119	982 N ADAMS RD APT 1
20-30-151-120	982 N ADAMS RD APT 5
20-30-151-121	982 N ADAMS RD APT 2
20-30-151-122	982 N ADAMS RD APT 6
20-30-151-123	982 N ADAMS RD APT 4
20-30-151-124	982 N ADAMS RD APT 8
20-30-151-125	982 N ADAMS RD APT 3
20-30-151-126	982 N ADAMS RD APT 7
20-30-151-127	900 N ADAMS RD
19-25-279-017	1001 N ADAMS RD
19-25-279-018	1013 N ADAMS RD
19-25-279-019	1025 N ADAMS RD
19-25-279-020	1037 N ADAMS RD
19-25-279-021	1049 N ADAMS RD
19-25-279-022	1051 N ADAMS RD
19-25-279-023	1063 N ADAMS RD
19-25-279-024	1075 N ADAMS RD
19-25-279-025	1087 N ADAMS RD
19-25-279-026	1099 N ADAMS RD
19-25-281-016	1055 WIMBLETON DR
19-25-281-017	1065 WIMBLETON DR
19-25-281-018	1075 WIMBLETON DR
19-25-281-019	1085 WIMBLETON DR
19-25-281-020	901 N ADAMS RD
19-25-281-021	911 N ADAMS
19-25-281-022	921 N ADAMS
19-25-281-023	931 N ADAMS
19-25-281-024	941 N ADAMS UNIT 9
19-25-281-025	951 N ADAMS
19-25-281-026	961 N ADAMS
19-25-281-027	971 N ADAMS
19-25-281-028	1084 ABBEY RD
19-25-281-029	1074 ABBEY RD
19-25-281-030	1064 ABBEY RD
19-25-281-031	1054 ABBEY RD
19-25-282-017	1078 WIMBLETON DR
19-25-282-018	1076 WIMBLETON DR
19-25-282-019	1072 WIMBLETON DR
19-25-282-020	1070 WIMBLETON DR
19-25-282-021	1064 WIMBLETON DR
19-25-282-022	1060 WIMBLETON DR
19-25-282-023	1050 WIMBLETON DR

Nature of Improvement:	This project will include the replacement of the water main and sewer improvements. The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248)530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/23/2024 & 6/30/2024
Approved minutes may be reviewed at:	City Clerk's Office or www.bhamgov.org/commissionagendas

Should you have any statement regarding the above, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**

You or your agent may appear at the hearings to express your views; however, if you fail to protest either in person or by letter received on or before the date of the hearing, you cannot appeal the amount of the special assessment to the Michigan Tax Tribunal. Mail any correspondence to: City Clerk, P.O. Box 3001, Birmingham, MI 48012. The property owner may file a written appeal of the special assessment with the State Tax Tribunal within 30 days after the confirmation of the special assessment roll if that special assessment was protested at the hearing held for the purpose of confirming the roll.
All special assessments, including installment payments, shall, from the date of the confirmation thereof, constitute a lien on the respective lots or parcels assessed, and until paid shall be charged against the respective owners of the lots or parcels assessed.

Persons with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk's Office at 248.530.1880 (voice) or 248.644.3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.

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N. Adams Road Project

Hearing of Necessity for Sewer and Water Lateral Special Assessment District (SAD)

Engineering Department

Date: July 8, 2024

8C

N. Adams Road Project
Sewer and Water Lateral Special Assessment District

➢Overview

- Limits of N. Adams Project is Madison Street to northern City limits
- Project includes:
  - New Water Main: Mohegan Street to Putney Street
  - Sewer Improvements: Spot Repair near Putney
- Special Assessment District (SAD) for Sewer and Water Laterals to be paid by the property owner at one hundred percent of the costs.

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N. Adams Road Project
Sewer and Water Lateral Special Assessment District

- General Construction Information: Water:
  - Existing Water: 12” Cast Iron, installed 1924
  - Proposed Water: 12” Ductile Iron

Sewer Near Spot Repair:

- Existing Sewer: 12” Clay Pipe, installed 1952
- Proposed Sewer: 12” PVC

N. Adams Road Project
Sewer and Water Lateral Special Assessment District

- General Construction Information:

N. Adams Road Water Main

- Almost 100 years old
- These streets have experienced several watermain breaks north of Mohegan
- After completing a water main break repair, DPS has experienced an immediate additional water main break nearby

N Adams Road Sewer

- A spot sewer repair is required from televising sewer reports

N. Adams Road Project
Sewer and Water Lateral Special Assessment District

➢Policy

- City policy: To protect the public investment being made with capital improvement projects in public roadways, as part of the project
  - Water Laterals:
    - Replace all water services that are 60 years of age or older, are less than one inch in diameter, or are constructed of an unsuitable material.
    - All unsuitable water services will be replaced with a new 1” diameter service, or be replaced to match the existing diameter if greater than 1”

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N. Adams Road Project
Sewer and Water Lateral Special Assessment District

➢Policy

- City policy: To protect the public investment being made with capital improvement projects in public roadways, as part of the project
  - Sewer Laterals:
    - Replacement of all sewer laterals that are 50 years of age or older, are less than 6” diameter, or are constructed of an unsuitable material.
    - All unsuitable sewer laterals will be replaced with 6" schedule 40 PVC or match existing size if larger than 6”.

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N. Adams Road Project
Sewer and Water Lateral Special Assessment District

- SAD:
  - Water Lateral: 100% cost of the property owner
  - Sewer Lateral : 100% cost of the property owner
  - Cost: The cost can be paid back in either a lump sum or over up to a 5-year period with interest. The interest rate will be confirmed at the Confirmation of Roll.

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N. Adams Road Project
Sewer and Water Lateral Special Assessment District

- SAD:
  - Water:
    - $115 per lineal foot for 1” diameter water service
    - $125 per lineal foot for 2” diameter water service
  - Sewer:
    - $250 per lineal foot for 8” sewer pipe

N. Adams Road Project
Sewer and Water Lateral Special Assessment District

Sewer and Water Lateral SAD Project Limits

N. Adams Road Project
Sewer and Water Lateral Special Assessment District

PROPERTIES LOCATED IN WATER AND SEWER LATERAL SAD:

Sidwell Number	Street Address
19-25-279-017	1001 N ADAMS RD
19-25-279-018	1013 N ADAMS RD
19-25-279-019	1025 N ADAMS RD
19-25-279-020	1037 N ADAMS RD
19-25-279-021	1049 N ADAMS RD
19-25-279-022	1051 N ADAMS RD
19-25-279-023	1063 N ADAMS RD
19-25-279-024	1075 N ADAMS RD
19-25-279-025	1087 N ADAMS RD
19-25-279-026	1099 N ADAMS RD
20-30-151-001	1100 N ADAMS RD
20-30-151-002	1050 N ADAMS RD
20-30-151-007	1109 DERBY RD APT 4
20-30-151-008	1109 DERBY RD APT 8
20-30-151-009	1109 DERBY RD APT 3
20-30-151-010	1109 DERBY RD APT 7
20-30-151-011	1109 DERBY RD APT 1
20-30-151-012	1109 DERBY RD APT 5
20-30-151-013	1109 DERBY RD APT 2

Sidwell Number	Street Address
20-30-151-014	1109 DERBY RD APT 6
20-30-151-015	1127 DERBY RD APT 4
20-30-151-016	1127 DERBY RD APT 8
20-30-151-017	1127 DERBY RD APT 3
20-30-151-018	1127 DERBY RD APT 7
20-30-151-019	1127 DERBY RD APT 1
20-30-151-020	1127 DERBY RD APT 5
20-30-151-021	1127 DERBY RD APT 2
20-30-151-022	1127 DERBY RD APT 6
20-30-151-023	1155 DERBY RD APT 4
20-30-151-024	1155 DERBY RD APT 8
20-30-151-025	1155 DERBY RD APT 3
20-30-151-026	1155 DERBY RD APT 7
20-30-151-027	1155 DERBY RD APT 1
20-30-151-028	1155 DERBY RD APT 5
20-30-151-029	1155 DERBY RD APT 2
20-30-151-030	1155 DERBY RD APT 6
20-30-151-031	850 N ADAMS RD APT 1
20-30-151-032	850 N ADAMS RD APT 5

Sidwell Number	Street Address
20-30-151-033	850 N ADAMS RD APT 2
20-30-151-034	850 N ADAMS RD APT 6
20-30-151-035	850 N ADAMS RD APT 4
20-30-151-036	850 N ADAMS RD APT 8
20-30-151-037	850 N ADAMS RD APT 3
20-30-151-038	850 N ADAMS RD APT 7
20-30-151-039	868 N ADAMS RD APT 1
20-30-151-040	868 N ADAMS RD APT 5
20-30-151-041	868 N ADAMS RD APT 2
20-30-151-042	868 N ADAMS RD APT 6
20-30-151-043	868 N ADAMS RD APT 4
20-30-151-044	868 N ADAMS RD APT 8
20-30-151-045	868 N ADAMS RD APT 3
20-30-151-046	868 N ADAMS RD APT 7
20-30-151-047	1195 DERBY RD APT 4
20-30-151-048	1195 DERBY RD APT 8
20-30-151-049	1195 DERBY RD APT 3
20-30-151-050	1195 DERBY RD APT 7
20-30-151-051	1195 DERBY RD APT 1

Sidwell Number	Street Address
20-30-151-052	1195 DERBY RD APT 5
20-30-151-053	1195 DERBY RD APT 2
20-30-151-054	1195 DERBY RD APT 6
20-30-151-055	1225 DERBY RD APT 4
20-30-151-056	1225 DERBY RD APT 8
20-30-151-057	1225 DERBY RD APT 3
20-30-151-058	1225 DERBY RD APT 7
20-30-151-059	1225 DERBY RD APT 1
20-30-151-060	1225 DERBY RD APT 5
20-30-151-061	1225 DERBY RD APT 2
20-30-151-062	1225 DERBY RD APT 6
20-30-151-063	1245 DERBY RD APT 1
20-30-151-064	1245 DERBY RD APT 5
20-30-151-065	1245 DERBY RD APT 2
20-30-151-066	1245 DERBY RD APT 6
20-30-151-067	1245 DERBY RD APT 4
20-30-151-068	1245 DERBY RD APT 8
20-30-151-069	1245 DERBY RD APT 3
20-30-151-070	1245 DERBY RD APT 7

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N. Adams Road Project
Sewer and Water Lateral Special Assessment District

PROPERTIES LOCATED IN WATER AND SEWER LATERAL SAD:

Sidwell Number	Street Address
20-30-151-071	880 N ADAMS RD APT 1
20-30-151-072	880 N ADAMS RD APT 5
20-30-151-073	880 N ADAMS RD APT 2
20-30-151-074	880 N ADAMS RD APT 6
20-30-151-075	880 N ADAMS RD APT 4
20-30-151-076	880 N ADAMS RD APT 8
20-30-151-077	880 N ADAMS RD APT 3
20-30-151-078	880 N ADAMS RD APT 7
20-30-151-079	898 N ADAMS RD APT 1
20-30-151-080	898 N ADAMS RD APT 5
20-30-151-081	898 N ADAMS RD APT 2
20-30-151-082	898 N ADAMS RD APT 6
20-30-151-083	898 N ADAMS RD APT 4
20-30-151-084	898 N ADAMS RD APT 8
20-30-151-085	898 N ADAMS RD APT 3
20-30-151-086	898 N ADAMS RD APT 7
20-30-151-087	946 N ADAMS RD APT 4
20-30-151-088	946 N ADAMS RD APT 8
20-30-151-089	946 N ADAMS RD APT 3

Sidwell Number	Street Address
20-30-151-090	946 N ADAMS RD APT 7
20-30-151-091	946 N ADAMS RD APT 1
20-30-151-092	946 N ADAMS RD APT 5
20-30-151-093	946 N ADAMS RD APT 2
20-30-151-094	946 N ADAMS RD APT 6
20-30-151-095	928 N ADAMS RD APT 4
20-30-151-096	928 N ADAMS RD APT 8
20-30-151-097	928 N ADAMS RD APT 3
20-30-151-098	928 N ADAMS RD APT 7
20-30-151-099	928 N ADAMS RD APT 1
20-30-151-100	928 N ADAMS RD APT 5
20-30-151-101	928 N ADAMS RD APT 2
20-30-151-102	928 N ADAMS RD APT 6
20-30-151-103	910 N ADAMS RD APT 4
20-30-151-104	910 N ADAMS RD APT 8
20-30-151-105	910 N ADAMS RD APT 3
20-30-151-106	910 N ADAMS RD APT 7
20-30-151-107	910 N ADAMS RD APT 1
20-30-151-108	910 N ADAMS RD APT 5

Sidwell Number	Street Address
20-30-151-109	910 N ADAMS RD APT 2
20-30-151-110	910 N ADAMS RD APT 6
20-30-151-111	964 N ADAMS RD APT 1
20-30-151-112	964 N ADAMS RD APT 5
20-30-151-113	964 N ADAMS RD APT 2
20-30-151-114	964 N ADAMS RD APT 6
20-30-151-115	964 N ADAMS RD APT 4
20-30-151-116	964 N ADAMS RD APT 8
20-30-151-117	964 N ADAMS RD APT 3
20-30-151-118	964 N ADAMS RD APT 7
20-30-151-119	982 N ADAMS RD APT 1
20-30-151-120	982 N ADAMS RD APT 5
20-30-151-121	982 N ADAMS RD APT 2
20-30-151-122	982 N ADAMS RD APT 6
20-30-151-123	982 N ADAMS RD APT 4
20-30-151-124	982 N ADAMS RD APT 8
20-30-151-125	982 N ADAMS RD APT 3
20-30-151-126	982 N ADAMS RD APT 7
20-30-151-127	900 N ADAMS RD

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N. Adams Road Project
Sewer and Water Lateral Special Assessment District

➢Summary

- The Engineering Department recommends the City Commission declare necessity and approve the SAD for the N. Adams Road Project for sewer and water laterals
- Should the Commission approve the SAD, a public hearing for confirmation of the roll will be held on July 22, 2024

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CLERK'S OFFICE
RECEIVED
JUN 26 2024
3:23 PM

June 24th, 2024

To: The City of Birmingham/City Engineer Melissa A. Coatta/City Commission

Re: North Adams Resurfacing Project
Contract #12-24 (P)/Water & Sewer Lateral Special Assessment District (SAD)

To whom it may concern,

I'm writing in response to the letter dated June 18th, 2024, regarding the North Adams Road Resurfacing Project that is slated to start in the Summer/Fall of 2024.

Unfortunately, I will be unable to attend the hearing on July 8th. I feel more notice should have been given and strongly disagree with the timing of the Monday after the 4th of July weekend to have such a meeting, as majority of Birmingham residents will be traveling up north or have other vacation plans. It seems as though in-person attendance will be much lower by having the meeting on this date, and I feel that is wrong, especially when the outcome is likely going to have a potentially large financial impact.

Next, the city hasn't provided ANY *estimated figures* simply noting this will come at the second meeting. As an owner of my condo for 20 years, as well as many of my fellow neighbors who are also long-term owners, all have the same sentiments about this: blindsiding us with this expense along with highly unreasonable payment terms of either full payment within 30 days or an installment plan that carries an exorbitant interest charge is not only poor planning by City Officials, but also just wrong. A project such as this is something that city has probably been aware of for years, and City Officials need to be more forthcoming with the potential costs, thus allowing homeowners to plan and budget accordingly. Furthermore, do you have any verification that the current residential sewer systems aren't working and must be replaced? I feel if the City of Birmingham wants to move forward with such a project, then the City of Birmingham should pay for this *entire project*.

To be clear, I'm 100% resolute with standing against the scope of this project and its related assessment charges for both myself and fellow neighbors. I would like for this letter to service as my official response and included within my property owner records, since I'm unable to attend this meeting with such poor notice. Again, please make note that my official standpoint is being 100% against this project and assessment plan. Lastly, please note that my agent, Gary Laskowsky, will be attending the meeting in my absence and has full approval to speak on my behalf when and if that opportunity is made available.

Respectfully,

Dana Lorraine Laskowsky Bilicki
Owner: 868 N. Adams #8
Birmingham, MI 48009
2030151044
(248) 330-7711

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Treasury

DATE: July 1, 2024

TO: Jana L. Ecker, City Manager

FROM: Ryan Katz, Deputy Treasurer
Mark Gerber, Finance Director/Treasurer

SUBJECT: Confirmation of SAD Roll 910S and SAD Roll 910W Arlington, Shirley, and Brandon Street Project – Sewer and Water Laterals

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INTRODUCTION:
A public Hearing of Confirmation of the Special Assessment Roll for the Arlington, Shirley, and Brandon Street Sewer and Water Lateral Project is being held on July 8, 2024. The special assessment will reimburse the City for improvements made. If the City Commission approves the roll, the property owners who benefit from these improvements will be billed for the cost of the improvements.

Comments during the hearing of confirmation are limited to those questions specifically addressing the assessment roll pursuant to Section 94-9 of the City Code.

BACKGROUND:
At the City Commission meeting on June 24, 2024, the City Commission determined the necessity of the Arlington, Shirley, and Brandon Street Sewer and Water Lateral Project and a Hearing of Confirmation of the Special Assessment Roll was set for July 8, 2024.

LEGAL REVIEW:
The City Attorney has reviewed the suggested resolution for compliance with City Code. The purpose of this hearing is to review and hear any objections to the Special Assessment Roll. The Special Assessment Roll is a listing of all of the properties to be assessed for the improvements to the property. Pursuant to the City Code at section 94-9, whenever a Special Assessment Roll shall be confirmed by the City Commission, it shall be final and conclusive.

FISCAL IMPACT:
If confirmed, the preliminary assessment roll would be $330,660.00. Once the project is completed and final costs are known, the roll will be adjusted to actual costs as provided by City Code. Property owners have ten (10) years to pay the special assessment.

SUSTAINABILITY:
This project will install a portion of separated storm sewer that will either drain to the existing storm sewer on Lincoln Street or new storm outlet on Shirley north of Lincoln. All water flow within combined sewers is sent to the wastewater treatment plant for treatment. Separating out storm sewers from the combined sewer system will reduce costs by not unnecessarily treating storm water runoff.

DESIGN CONSIDERATIONS:
The City Commission previously approved the design of the improved road to maintain the current road width and to eliminate construction of sidewalks on Shirley and Arlington.

PUBLIC COMMUNICATIONS:
Property owners were notified by mail of the public hearing dates. If the City Commission confirms the Special Assessment Rolls, the Treasurer's office will notify the property owners in the Special Assessment District of the confirmation and the lien on their property.

SUMMARY:
The Treasurer's office recommends that the City Commission conduct the Hearing of Confirmation of Special Assessment Districts 910S and 910W and further to confirm the rolls as attached to this report.

ATTACHMENTS:

- Proposed Special Assessment Rolls
- Memorandum: Hearing of Necessity for Arlington, Shirley, and Brandon Street Sewer and Water Lateral Project SAD

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution confirming Special Assessment Rolls 910S and 910W as follows:

WHEREAS, Special Assessment Roll, designated Roll No. 910S and Roll No. 910W, has been heretofore prepared for Collection; and

WHEREAS, notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property to be assessed; and

WHEREAS, the Commission has deemed it practicable to cause payment of the cost thereof to be made after the time of construction; and

WHEREAS, the Commission Resolution 06-469-24 provided it would meet this 8th day of July, 2024 for the sole purpose of reviewing the assessment roll; and

WHEREAS, at said hearing held this July 8, 2024, all those property owners or their representatives present have been given an opportunity to be heard specifically concerning costs appearing in said special assessment roll;

NOW, THEREFORE, BE IT RESOLVED, that Special Assessment Roll No. 910S and Roll No. 910W be in all things ratified and confirmed, and that the City Clerk be and is hereby instructed to endorse said roll, showing the date of confirmation thereof, and to certify said assessment roll to the City Treasurer for collection at or near the time of construction of the improvement.

BE IT FURTHER RESOLVED, that the special assessment shall be payable in ten (10) payments as provided in Section 94-10 of the Code of the City of Birmingham, with an annual interest rate of nine and one half percent (9.50%) on all unpaid installments.

Sidwell Number	Street Address	Sewer Lateral SAD Assessment
19-35-202-033	218 Arlington	$5,600.00
19-35-202-035	280 Arlington	$4,600.00
19-35-202-036	316 Arlington	$4,400.00
19-35-202-039	414 Arlington	$6,000.00
19-35-202-042	500 Arlington	$3,000.00
19-35-202-043	550 Arlington	$6,800.00
19-35-202-045	700 Arlington	$4,400.00
19-35-202-048	800 Arlington	$4,000.00
19-35-202-050	898 Arlington	$4,200.00
19-35-202-055	1420 W Lincoln	$5,600.00
19-35-202-069	1589 W. Maple	$5,000.00
19-35-226-002	175 Arlington	$5,200.00
19-35-226-003	243 Arlington	$4,600.00
19-35-226-004	269 Arlington	$5,600.00
19-35-226-006	345 Arlington	$6,000.00
19-35-226-009	100 Shirley	$6,800.00
19-35-226-010	188 Shirley	$4,600.00
19-35-226-011	226 Shirley	$4,200.00
19-35-226-012	252 Shirley (Vacant)	$3,400.00
19-35-226-016	377 Arlington	$5,400.00
19-35-226-017	350 Shirley	$6,600.00
19-35-227-004	345 Shirley	$4,800.00
19-35-227-005	361 Shirley	$3,800.00
19-35-227-006	381 Shirley	$7,000.00
19-35-227-008	421 Arlington	$7,600.00
19-35-227-009	445 Arlington	$5,800.00
19-35-227-010	463 Arlington	$4,800.00
19-35-227-011	487 Arlington	$5,800.00
19-35-227-013	585 Shirley	$7,400.00
19-35-227-035	619 Shirley	$8,200.00
19-35-227-036	663 Shirley	$8,200.00

Sidwell Number	Street Address	Sewer Lateral SAD Assessment
19-35-276-001	503 Arlington	$6,400.00
19-35-276-002	577 Arlington	$3,600.00
19-35-276-003	645 Arlington	$5,000.00
19-35-276-006	779 Arlington	$6,000.00
19-35-276-007	843 Arlington	$6,200.00
19-35-276-008	881 Arlington	$6,000.00
19-35-276-010	975 Arlington	$3,400.00
19-35-276-011	1057 Arlington	$7,000.00
19-35-276-013	640 Shirley	$2,000.00
19-35-276-015	770 Shirley	$3,000.00
19-35-276-016	822 Shirley	$4,400.00
19-35-276-017	880 Shirley	$7,400.00
19-35-276-018	914 Shirley	$5,400.00
19-35-276-022	1000 Shirley	$1,600.00
19-35-276-023	737 Arlington	$5,800.00
19-35-277-003	811 Shirley	$7,400.00
19-35-277-005	905 Shirley	$5,200.00
19-35-277-006	955 Shirley	$6,400.00

$261,600.00

Sidwell Number	Street Address	Water Lateral SAD Assessment
19-35-202-033	218 Arlington	$2,380.00
19-35-202-044	600 Arlington	$825.00
19-35-202-045	700 Arlington	$2,175.00
19-35-202-046	730 Arlington	$2,240.00
19-35-202-047	776 Arlington	$2,170.00
19-35-202-048	800 Arlington	$2,100.00
19-35-202-050	898 Arlington	$2,100.00
19-35-226-002	175 Arlington	$1,200.00
19-35-226-003	243 Arlington	$1,120.00
19-35-226-004	269 Arlington	$1,260.00
19-35-226-006	345 Arlington	$2,590.00
19-35-226-009	100 Shirley	$2,240.00
19-35-226-010	188 Shirley	$2,590.00
19-35-226-011	226 Shirley	$2,380.00
19-35-226-012	252 Shirley (Vacant)	$2,520.00
19-35-227-004	345 Shirley	$980.00
19-35-227-005	361 Shirley	$3,000.00
19-35-227-006	381 Shirley	$2,870.00
19-35-227-008	421 Arlington	$4,200.00
19-35-227-009	445 Arlington	$3,600.00
19-35-276-001	503 Arlington	$1,050.00
19-35-276-002	577 Arlington	$2,310.00
19-35-276-003	645 Arlington	$2,730.00
19-35-276-006	779 Arlington	$1,330.00
19-35-276-007	843 Arlington	$1,400.00
19-35-276-008	881 Arlington	$1,400.00
19-35-276-011	1057 Arlington	$1,540.00
19-35-276-015	770 Shirley	$2,450.00
19-35-276-016	822 Shirley	$2,240.00
19-35-276-017	880 Shirley	$1,275.00
19-35-276-018	914 Shirley	$1,125.00
19-35-276-023	737 Arlington	$1,330.00
19-35-277-003	811 Shirley	$2,520.00
19-35-277-005	905 Shirley	$1,820.00

$69,060.00

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Engineering Department

DATE: June 17, 2024

TO: Jana L. Ecker, City Manager

FROM: Melissa A. Coatta, City Engineer

SUBJECT: Arlington, Shirley, and Brandon Street Project, Contract #6-24(W)
Hearing of Necessity for Sewer and Water Lateral Special Assessment District (SAD)

INTRODUCTION:
Several water and sewer leads will be replaced as part of the Engineering Department's planned project for the sewer and water main improvements on Arlington Street from Lincoln Road to Maple Road, and Shirley Road from Lincoln Road to Maple Road. The City proposed to replace private sewer and water laterals that meet "useful life" criteria within the City's right-of-way (ROW) in an effort to protect public investments.

BACKGROUND:
Arlington Street and Shirley Road have been planned for water main improvements in the City's Capital Improvements Plan since 2019. At the February 5, 2024, City Commission Meeting, a resolution was approved for Arlington Street from Lincoln Street to Maple Road, Shirley Road from Lincoln Street to Maple Road, to receive water main replacement and sewer improvements, and to be converted to improved roads by paving the roads with new concrete curb and gutter, an engineered aggregate base, and asphalt paving, with no sidewalk. Also at this meeting, a resolution was passed to add Brandon Street to the Arlington Street and Shirley Street project and to proceed with the final design to include construction of the street within the project area to meet the City standards for an improved street with a five-foot-wide sidewalk on at least one side of the road, accommodating parking and the entrance to the park, as well as a gate to block access to the pump house road/drive.

The existing water main on Arlington and Shirley is 6" diameter and was installed in 1927. An 8" in diameter water main will replace the existing water main. There are no existing or proposed water mains on Brandon Street.

With regards to sewer service, there is an existing 10" – 24" diameter sewer on Shirley Road that drains towards Lincoln that was installed in 1927, and an 18"-24" relief sewer installed in 1968. A 12" diameter storm sewer and a 12"-18" diameter combined sewer main will replace the existing sewer on Shirley. The sewer on Arlington Street either drains south to a 10"-15" diameter sewer that drains towards Lincoln, or drains north to a 10"-12" diameter sewer that drains to Maple

Road. A relief sewer, 15"-24" diameter, was installed in 1968. A 12"-24" diameter new sewer is proposed on Arlington along with point repairs on the existing sewer.

The infrastructure improvements proposed have been discussed in detail at the following meetings:

- January 8, 2024 City Commission Meeting (Agenda – Video)
- January 22, 2024 City Commission Meeting (Agenda – Video)
- January 30, 2024 Special City Commission Meeting – Shirley & Arlington (Agenda – Video)
- February 5, 2024 City Commission Meeting (Agenda – Video)

In accordance with current City policy established to protect the public investment being made with capital improvement projects in the public roadway, the following is proposed:

- Replacement of all sewer laterals that are 50 years of age or older, are less than 6" diameter, or are constructed of an unsuitable material. All unsuitable sewer laterals will be replaced with 6" schedule 40 PVC.
- Replacement all water services that are 60 years of age or older, are less than one inch in diameter, or are constructed of an unsuitable material. All unsuitable water services will be replaced with a new 1-inch diameter service, or be replaced to match the existing diameter if greater than 1 inch.

The lengths of sewer and/or water laterals replacement will be within the road right-of-way. The parcels within the project zone that are subject to sewer and water lateral special assessment are highlighted on the attached map. Appended to this report is a list of properties that are included in the assessment district, along with the estimated construction costs to be assessed.

LEGAL REVIEW:
Chapter 94 – Special Assessments of the Birmingham City Code outlines the process by which a special assessment is conducted in the City of Birmingham. This project will follow the prescribed City Code procedures. The City Attorney has no objections.

FISCAL IMPACT:
Revenue generated from the water and sewer lateral SAD for the Arlington, Shirley, and Brandon project will defray the costs incurred by the City for the construction of these improvements. One hundred percent of the costs for laterals within the ROW will be paid by the property owners. The cost can be paid back in either a lump sum or over up to a 10-year period with interest. The interest rate will be confirmed at the Confirmation of Roll Hearing.

SUSTAINABILITY:
This project will install a portion of separated storm sewer that will either drain to the existing storm sewer on Lincoln Street or new storm outlet on Shirley north of Lincoln.

DESIGN CONSIDERATIONS:
The City Commission previously approved the design of the improved road to maintain the current road width and to eliminate construction of sidewalks on Shirley and Arlington.

PUBLIC COMMUNICATIONS:
The Clerk's Office distributed the notice of Hearing of Necessity. The Engineering Department sent a letter to all property owners explaining the scope of work with the notice. The Engineering Department also held a resident meeting on June 4, 2024.

SUMMARY:
The Engineering Department recommends that the City Commission declare necessity and approve a special assessment district for water and sewer laterals as part of the Arlington, Shirley, and Brandon project. Should the Commission approve the special assessment district, a public hearing for Confirmation of the Roll should be set for the City Commission meeting on July 8, 2024.

ATTACHMENTS:
- Map of proposed special assessment district of sewer and water lateral replacement
- Arlington, Shirley, and Brandon Road project plans
- Spreadsheet with estimated cost of lateral replacement
- Clerk's confirmation of the public hearing notice

SUGGESTED COMMISSION ACTION:
WHEREAS, Notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property and lots to be assessed, by first class mail, and by publication in a newspaper generally circulated in the City; and

WHEREAS, The City Commission has conducted a public hearing and has determined it is necessary to proceed with the project replacing sewer services 50 years of age or older or constructed of material that is not acceptable for City standards and replacing water services that are 60 years or older or less than 1 inch in diameter on Arlington Street from Lincoln Road to Maple Road, and Shirley Road from Lincoln Road to Maple Road; and

WHEREAS, The City has previously established a policy requiring replacement of sewer services 50 years of age or older or constructed of material that is not acceptable for City standards and water services less than 1 inch in diameter and the City street is open for repairs or reconstruction; and

WHEREAS, The City Commission, after the public hearing, has determined that Arlington, Shirley, and Brandon Project, the replacement of sewer services that are 50 years of age or older or of material that is not acceptable for City standards, the replacement of water services that are 60 years or older or less than 1 inch in diameter, is a necessity and is in the best interest of the City; and

WHEREAS, The Commission has approved the detailed plans and estimates of cost prepared by the City Engineer; and

WHEREAS, Formal bids have been received and the actual cost of sewer service and water service replacement has been determined; and

WHEREAS, The City Engineer has determined the boundaries of sewer service lateral and water service laterals located within the limits of the following streets shall be installed as part of the Arlington, Shirley, and Brandon Project (Contract #6-24(W)):

Arlington Street – Lincoln Street to Maple Road; and
Shirley Road – Lincoln Road to Maple Road

WHEREAS, The formula used in making the assessment is 100% of the contractor's charge for replacing the lateral service that is 50 years of age or older or constructed of materials that are not acceptable and water service that is 60 years of age or older or less than 1 inch in diameter within the public right-of-way between the utility and the property line (calculated at the rate of $200.00 per foot of 6" diameter sewer service pipe, $250.00 per foot of 8" diameter sewer service pipe, $70.00 per foot of 1-inch water service pipe, $75.00 per foot of 1.5-inch water service pipe, and $90.00 per foot of 2-inch water service pipe).

THEREFORE LET IT BE RESOLVED, The City Commission has determined that the scope of the public improvement as described is in the best interest of the City and will benefit the properties listed in the assessment roll and is a necessity, and the City Commission directs the Manager to prepare a Special Assessment Roll and present the same to the City Commission for confirmation and further set a Public Hearing of Confirmation on July 8, 2024 and give notice of same.

Water and/or Sewer Lateral

Sidwell Number	Street Address	Sewer SAD Costs	Water SAD Costs
19-35-202-033	218 Arlington	$5,600.00	$2,380.00
19-35-202-035	280 Arlington	$4,600.00	
19-35-202-036	316 Arlington	$4,400.00	
19-35-202-039	414 Arlington	$6,000.00	
19-35-202-042	500 Arlington	$3,000.00	
19-35-202-043	550 Arlington	$6,800.00	
19-35-202-044	600 Arlington		$825.00
19-35-202-045	700 Arlington	$4,400.00	$2,175.00
19-35-202-046	730 Arlington		$2,240.00
19-35-202-047	776 Arlington		$2,170.00
19-35-202-048	800 Arlington	$4,000.00	$2,100.00
19-35-202-050	898 Arlington	$4,200.00	$2,100.00
19-35-202-055	1420 W Lincoln	$5,600.00	
19-35-202-069	1589 W. Maple	$5,000.00	
19-35-226-002	175 Arlington	$5,200.00	$1,200.00
19-35-226-003	243 Arlington	$4,600.00	$1,120.00
19-35-226-004	269 Arlington	$5,600.00	$1,260.00
19-35-226-006	345 Arlington	$6,000.00	$2,590.00
19-35-226-009	100 Shirley	$6,800.00	$2,240.00
19-35-226-010	188 Shirley	$4,600.00	$2,590.00

19-35-226-011	226 Shirley	$4,200.00	$2,380.00
19-35-226-012	252 Shirley	$3,400.00	$2,520.00
19-35-226-016	377 Arlington	$5,400.00	
19-35-226-017	350 Shirley	$6,600.00	
19-35-227-004	345 Shirley	$4,800.00	$980.00
19-35-227-005	361 Shirley	$3,800.00	$3,000.00
19-35-227-006	381 Shirley	$7,000.00	$2,870.00
19-35-227-008	421 Arlington	$7,600.00	$4,200.00
19-35-227-009	445 Arlington	$5,800.00	$3,600.00
19-35-227-010	463 Arlington	$4,800.00	
19-35-227-011	487 Arlington	$5,800.00	
19-35-227-013	585 Shirley	$7,400.00	
19-35-227-035	619 Shirley	$8,200.00	
19-35-227-036	663 Shirley	$8,200.00	$0.00
19-35-276-001	503 Arlington	$6,400.00	$1,050.00
19-35-276-002	577 Arlington	$3,600.00	$2,310.00
19-35-276-003	645 Arlington	$5,000.00	$2,730.00
19-35-276-006	779 Arlington	$6,000.00	$1,330.00
19-35-276-007	843 Arlington	$6,200.00	$1,400.00
19-35-276-008	881 Arlington	$6,000.00	$1,400.00
19-35-276-010	975 Arlington	$3,400.00	
19-35-276-011	1057 Arlington	$7,000.00	$1,540.00
19-35-276-013	640 Shirley	$2,000.00	
19-35-276-015	770 Shirley	$3,000.00	$2,450.00
19-35-276-016	822 Shirley	$4,400.00	$2,240.00
19-35-276-017	880 Shirley	$7,400.00	$1,275.00
19-35-276-018	914 Shirley	$5,400.00	$1,125.00
19-35-276-022	1000 Shirley	$1,600.00	
19-35-276-023	737 Arlington	$5,800.00	$1,330.00
19-35-277-003	811 Shirley	$7,400.00	$2,520.00
19-35-277-005	905 Shirley	$5,200.00	$1,820.00
19-35-277-006	955 Shirley	$6,400.00	

Arlington, Shirley, and Brandon Project Area

MATCH LINE

Limits of Projects

Properties Within Sewer and Water Lateral SAD

Arlington, Shirley, and Brandon Project Area

Limits of Projects

Properties Within Sewer and Water Lateral SAD

Arlington, Shirley, and Brandon Project Area

MATCH LINE

Limits of Projects

Properties Within Sewer and Water Lateral SAD

BIRMINGHAM

A WALKABLE CITY

ENGINEERING DEPARTMENT

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

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C03 Utility Plan Sta 10+00 to 15+00 (Arlington Road)
C04 Utility Plan Sta 15+00 to 21+00 (Arlington Road)
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C17 Utility Service Plan Sta 10+00 to P.O.E. (Shirley - South)
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C36 Paving & Grading Plan Sta 5+00 to P.O.E. (Shirley - North)
C37 Paving & Grading Plan Sta P.O.B. to P.O.E. (Brandon St)
C38 Intersection Grading Details
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C40 Advanced Warning Signage Diagram
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Q1 Quantities

CITY OF BIRMINGHAM - WATER MAIN STANDARD DETAILS
CITY OF BIRMINGHAM - SEWER STANDARD DETAILS

WATER / SEWER SERVICE NOTE

ALL WATER AND SEWER SERVICE LATERAL INFORMATION IS SHOWN PER RECORD, WITHIN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH CITY FOR ALL PRIVATE-SIDE WATER AND SEWER LATERAL INFORMATION, AS REQUIRED, TO CONSTRUCT THE PROJECT INCL.).

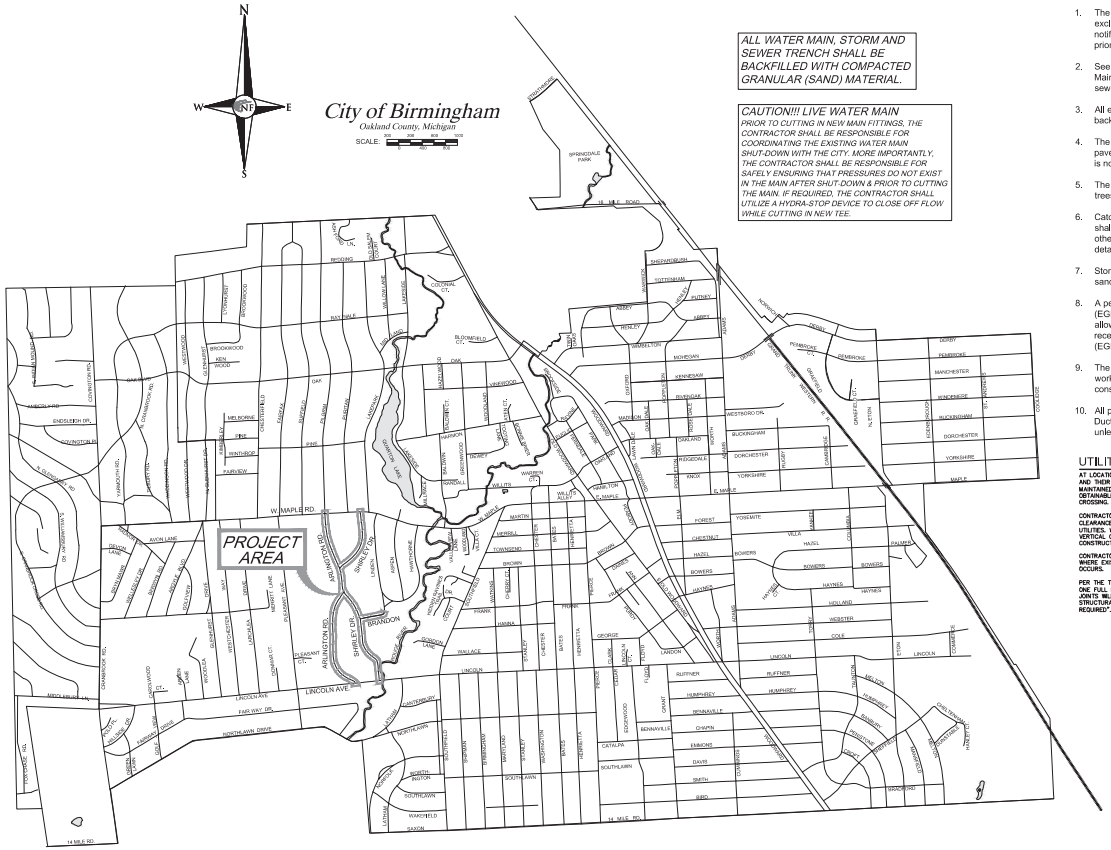
UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF., THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

811 Know what's below Call before you dig.

BENCHMARK NOTE

BENCHMARKS SET AND SHOWN PER SHEET WERE ESTABLISHED OFF OF THE CITY OF BIRMINGHAM BENCHMARK DATUM.



ALL WATER MAIN, STORM AND SEWER TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR (SAND) MATERIAL.

CAUTION!!! LIVE WATER MAIN
PRIOR TO CUTTING IN NEW MAIN FITTINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE EXISTING WATER MAIN SHUT-DOWN WITH THE CITY. MORE IMPORTANTLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY ENSURING THAT PRESSURES DO NOT EXIST IN THE MAIN AFTER SHUT-DOWN & PRIOR TO CUTTING THE MAIN. IF REQUIRED, THE CONTRACTOR SHALL UTILIZE A HYDRA-STOP DEVICE TO CLOSE OFF FLOW WHILE CUTTING IN NEW TEE.

CONSTRUCTION NOTES

These notes shall apply for all work within this contract:

1. The contractor shall notify MISS DIG 1-800-482-7171 at least 3 working days excluding Saturday, Sunday, and Holidays before making any excavations and notify the City of Birmingham Engineering Department a minimum of 24 hours prior to the start of construction (248-530-1850).
2. See the City of Birmingham drawings "Sewer Standard Details" and "Water Main Standard Details" for details of manholes, catch basins, inlets, and related sewer and water main work.
3. All excavation under or within three feet of pavement, public or private, shall be backfilled and compacted with sand.
4. The joints at the edges of all excavations in the pavement shall be sawcut, or pavement will be removed to existing joints, as directed by the Engineer. There is no separate pay item for saw cutting pavements.
5. The contractor shall be responsible for damage to existing utilities, pavement, trees, landscaping, gravel, etc., whether located on public or private property.
6. Catch basin and inlet castings scheduled for replacement, or new construction shall be EJIW 5000Z4 DI / 5000M4 DI Hinged Assembly unless specified otherwise. Manhole castings shall be EJIW 1040-A cover as noted on the detail sheets and plans, unless otherwise specified.
7. Storm, sewer and water main trench shall be backfilled with MDOT Class II sand and properly compacted to 95% of modified proctor density.
8. A permit from the Michigan Department of Environment, Great Lakes & Energy (EGLE) is required for all new water main installations. Also, no work shall be allowed on the combined sewer system until appropriate permits have been received by the Michigan Department of Environment, Great Lakes & Energy (EGLE).
9. The contractor shall coordinate and cooperate with all other utility companies working in the same area, project related or not, during the same allotted construction period.
10. All proposed Public Water Main for this project shall be Pressure Class 52 Ductile Iron Pipe (D.I.P.) in conformance with City of Birmingham specifications, unless otherwise noted.

UTILITY CROSSING NOTE

AT LOCATIONS WHERE THERE ARE CROSSING WITH EXISTING UTILITES AND THEIR DEPTHS ARE UNKNOWN, 18" VERTICAL SEPARATION WILL BE MAINTAINED WHENEVER POSSIBLE. IF THE 18" SEPARATION IS NOT OBTAINABLE, A CONCRETE ENCASEMENT WILL BE INSTALLED AT THE CROSSING.

CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' SEPARATION CANNOT BE MAINTAINED, 18" VERTICAL CLEARANCE SHALL BE PROVIDED AND UTILITIES SHALL BE CONSTRUCTED IN SEPARATE TRENCHES.

CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS.

PER THE TEN STATES STANDARDS, ARTICLE 8.8.3 (b), "AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE (20') SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED".

DESIGN ENGINEER SEAL

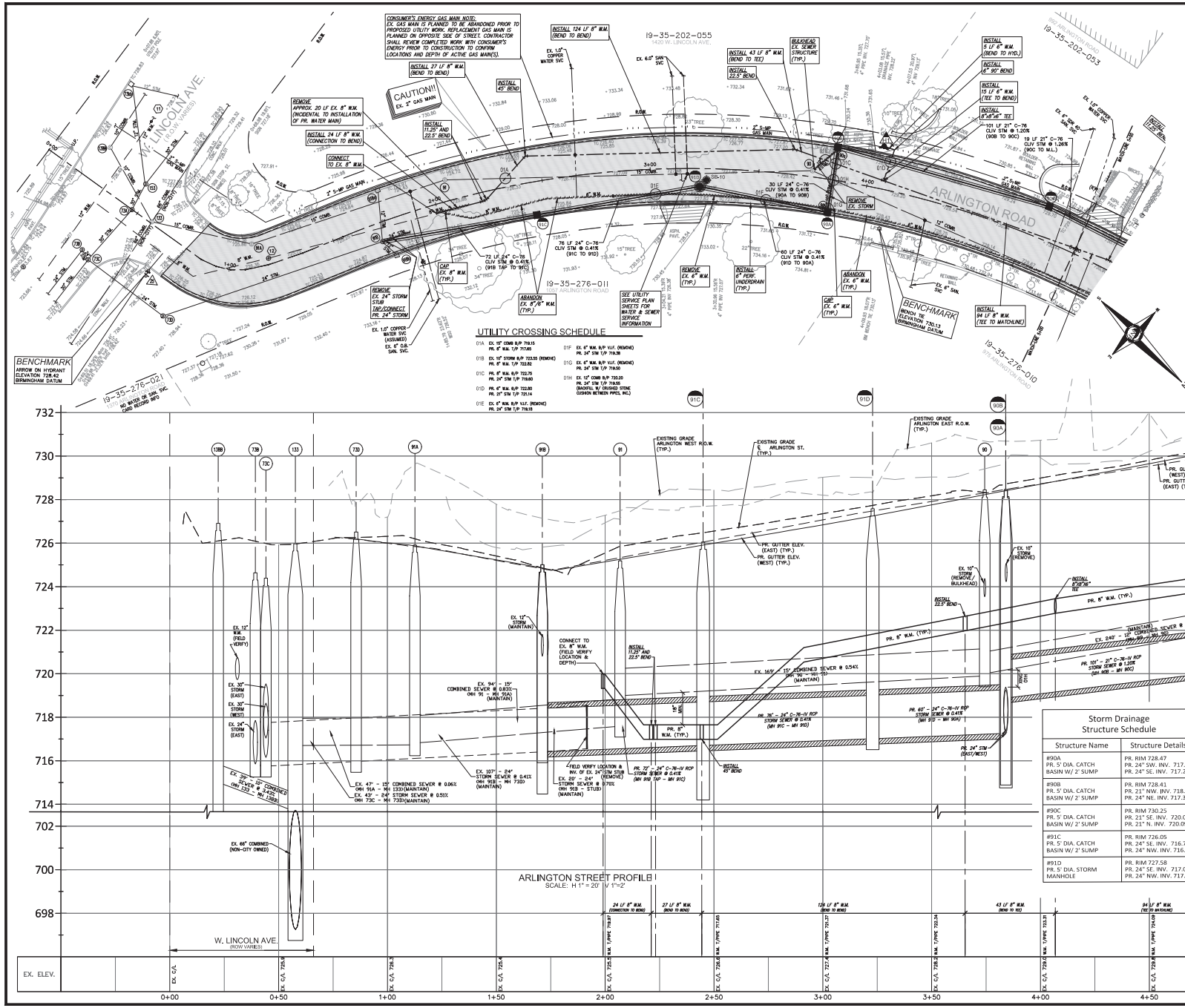
STATE OF MICHIGAN
PAUL TULIKANGAS
ENGINEER NO. 057929
LICENSED PROFESSIONAL ENGINEER

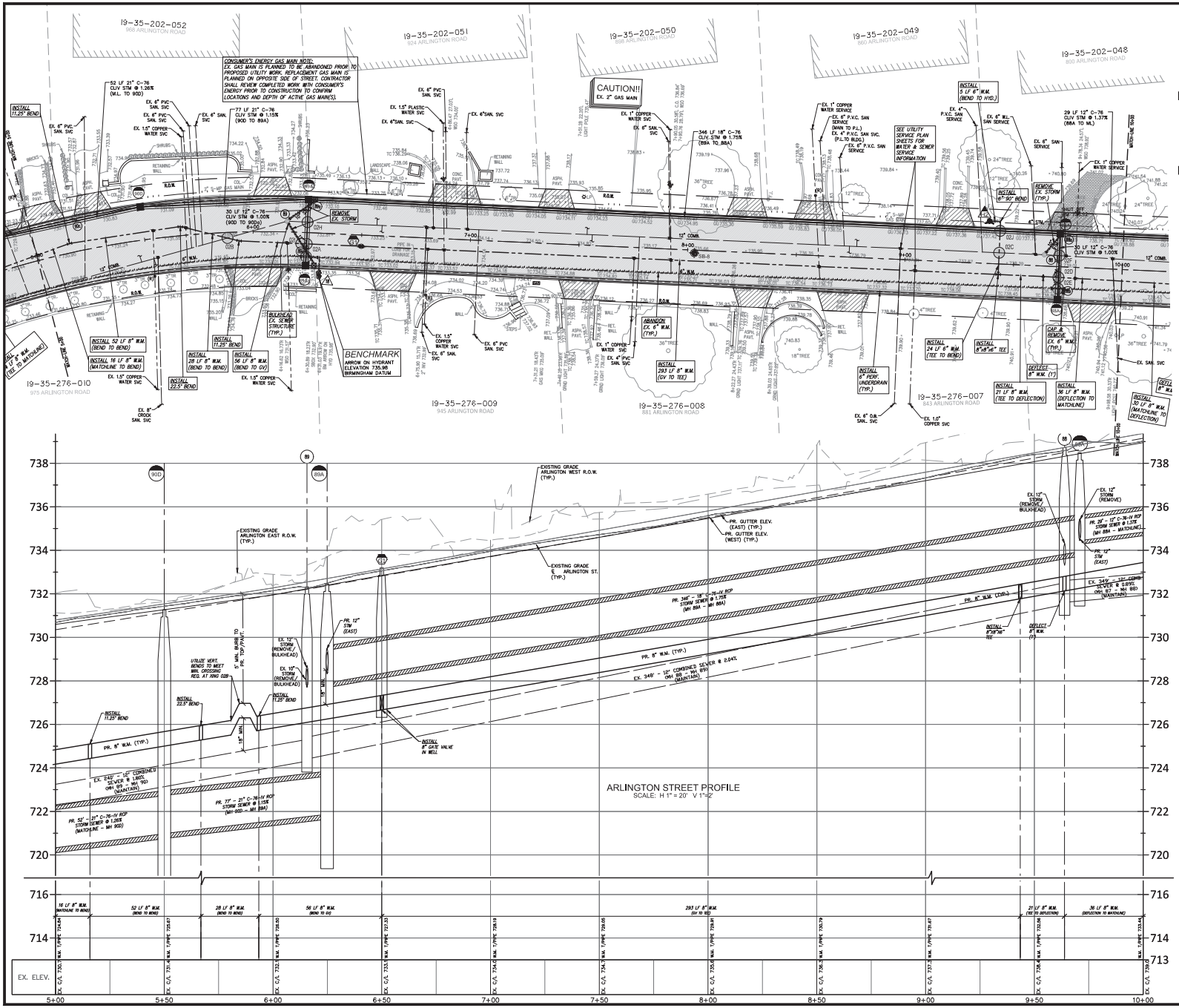
APPROVED DATE

05-02-24 BIDS

ENGINEERING DEPARTMENT
ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

8A


CONSUMER'S ENERGY GAS MAIN NOTE:
EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).
CAUTION!!
EX. 3" GAS MAIN
W. LINCOLN AVE.
(ROW VARIES)
ARLINGTON ROAD
19-35-202-055
1420 W. LINCOLN AVE.
19-35-202-053
1500 ARLINGTON ROAD
19-35-276-011
1501 ARLINGTON ROAD
19-35-276-021
1555 ARLINGTON ROAD
19-35-276-010
1600 ARLINGTON ROAD
BENCHMARK
ARROW ON HYDRANT
ELEVATION 728.42
BIRMINGHAM DATUM
BENCHMARK
"PKNAIL IN TOP OF NUT"
ELEVATION 730.13
BIRMINGHAM DATUM
NO WATER OR SAN. SVC. CARD RECORD INFO
REMOVE APPROX. 20 LF EX. 8" W.M. (INCIDENTAL TO INSTALLATION OF PR. WATER MAIN)
INSTALL 24 LF 8" W.M. (CONNECTION TO BEND)
CONNECT TO EX. 8" W.M.
INSTALL 27 LF 8" W.M. (BEND TO BEND)
INSTALL 11.25° AND 22.5° BEND
INSTALL 45° BEND
INSTALL 124 LF 8" W.M. (BEND TO BEND)
INSTALL 43 LF 8" W.M. (BEND TO TEE)
INSTALL 22.5° BEND
INSTALL 5' LF 6" W.M. (BEND TO HYD.)
INSTALL 8" 90° BEND
INSTALL 15 LF 6" W.M. (TEE TO BEND)
INSTALL 8"x8"x6" TEE
INSTALL 94' LF 8" W.M. (TEE TO MATCHLINE)
EX. 1.0" COPPER WATER SVC
EX. 6.0" SAN. SVC
EX. 15" COMBINED SEWER
EX. 6" SAN. SVC
EX. 8" SAN. SVC
EX. 6" SAN. SVC
EX. 8" SAN. SVC
EX. 8" SAN. SVC
EX. 8



EX SEWER STRUCTURE SCHEDULE

89 BULKHEAD & ADJUST
6+15.60 4.90'L
COMB. MH 89
RIM 732.31
PR. RIM 732.44
12" SE. 724.31
12" N. 724.41
12" NE. 727.71 (REMOVE/BULKHEAD)
10" NW. 727.71 (REMOVE/BULKHEAD)

88 BULKHEAD & ADJUST
9+63.89 9.17'L
COMB. MH 88
RIM 738.71
PR. RIM 738.80
12" N. 731.61
12" S. 731.51
10" NE. 733.31(REMOVE/BULKHEAD)

EX STORM STRUCTURE SCHEDULE

88a REMOVE
9+70.77 15.15'L
CATCH BASIN 88a
RIM 738.24
12" E. 733.94
10" SE. 733.99
6" W. 734.64

88b REMOVE
9+71.22 14.83'R
CATCH BASIN 88b
RIM 738.17
12" W. 735.17

89a REMOVE
6+27.92 15.52'L
CATCH BASIN 89a
RIM 731.96
10" SE. 728.16

89d REMOVE
6+28.63 14.95'R
CATCH BASIN 89d
RIM 732.33
12" SE. 729.13

90c INVESTIGATE W/ CITY INSPECTOR DETERMINE PIPE CONNECTIONS REMOVE AS REQUIRED
5+20.33 15.35'L
STORM MH 90c
RIM 730.44

EX WATER MAIN SCHEDULE

REMOVE
6+31.03 19.97'R
HYD 1B
F.G. 735.98

UTILITY CROSSING SCHEDULE

02A PR. 12" STM. B/P. 728.52 PR. 8" W.M. T/P. 736.91
02B PR. 8" W.M. B/P. 736.30 PR. 12" COMB. T/P. 724.80
02C EX. 15" COMB. B/P. 730.10 PR. 12" W.M. T/P. 739.60
02D PR. 12" STM B/P. 734.64 PR. 8" W.M. T/P. 732.95
02E EX. 6" W.M. B/P. W.V.F. (REMOVE) PR. 12" STM T/P. 735.86
02F PR. 12" STM. B/P. 734.54 EX. 12" COMB. T/P. 728.67
02G EX. 6" W.M. B/P. W.V.F. (REMOVE) PR. 12" STM T/P. 729.58
02H PR. 12" STM. B/P. 728.42 EX. 12" COMB. T/P. 725.80
02I EX. 12" STM B/P. 727.80 (REMOVE) PR. 8" W.M. T/P. 726.87
02J PR. 18" STM B/P. 733.25 PR. 4" W.M. T/P. 735.75

WATER MAIN SCHEDULE

REMOVE
6+31.09 20.08'R
HYD 1B
F.G. 733.20

HYDRANT & ASSEMBLY
STA. 8+30.97 19.97' L
F.G. 735.80
PR. TYPE 733.50

PR. 8" GATE VALVE IN WELL
PR. STA. 8+30.97 0.17' R
PR. RIM 734.67
PR. TYPE 727.33

UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

Storm Drainage Structure Schedule

Structure Name	Structure Details
#88A PR. 4' DIA. CATCH BASIN W/ 2' SUMP CONSTRUCT ONLINE, RECONNECT EX. 6" W. 734.64)	PR. RIM 738.48 PR. 18" S. INV. 733.94 PR. 12" N. INV. 734.44 PR. 12" E. INV. 734.44
#88Aa PR. 2' DIA. STORM INLET	PR. RIM 738.62 PR. 12" W. INV. 734.74
#89A PR. 5' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 732.44 PR. 21" S. INV. 721.87 PR. 18" N. INV. 727.90 PR. 12" E. INV. 728.32
#89Aa PR. 2' DIA. STORM INLET	PR. RIM 732.37 PR. 12" W. INV. 728.62
#90D PR. 5' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 731.27 PR. 21" S. INV. 720.98 PR. 21" N. INV. 720.98

LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FILL-DEPTH ASPH. (4" MIN ON 6" 21AA)
PR. 10" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS
NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 5+00 to 10+00 (Arlington Road)

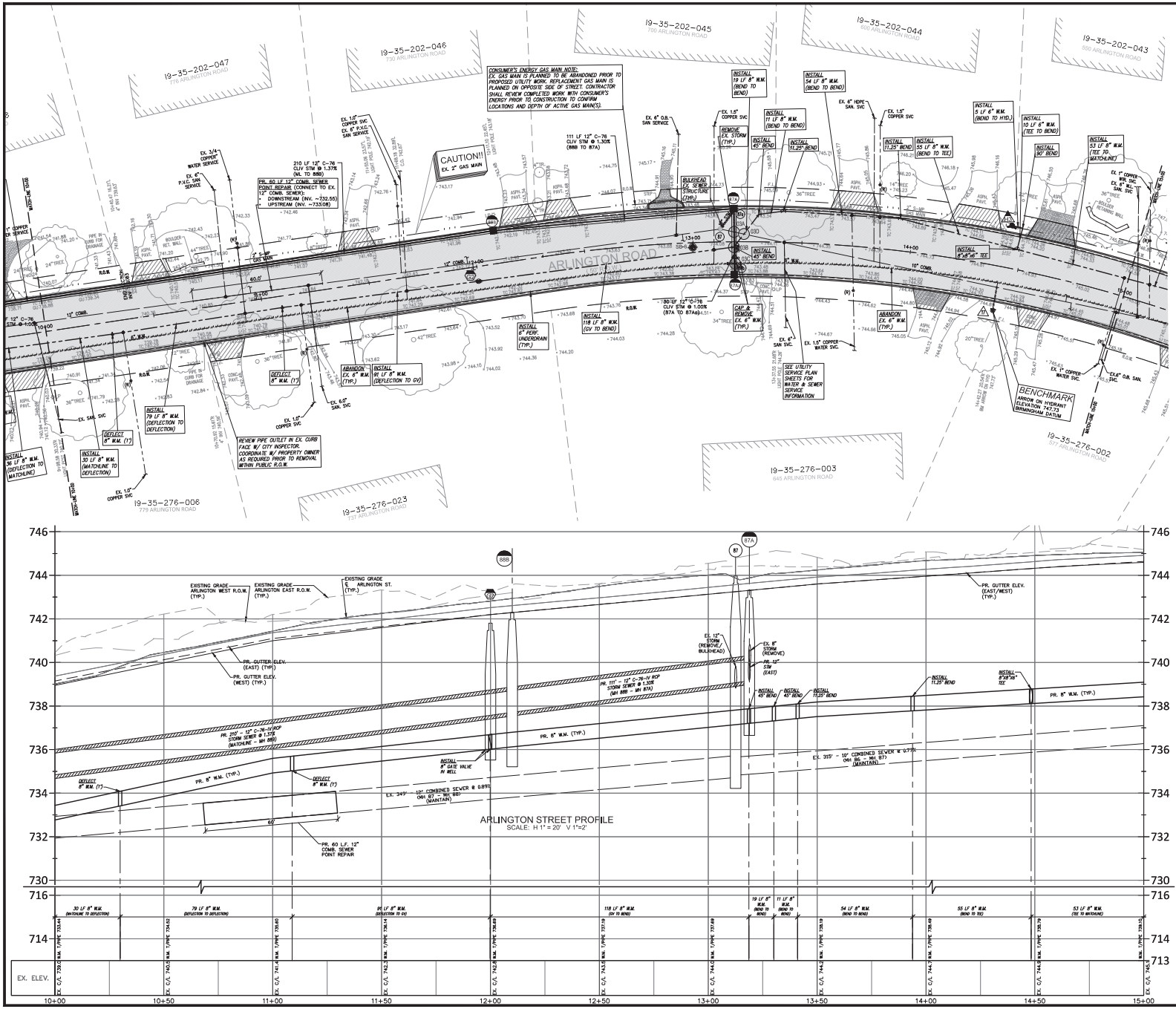
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C02

8D



EX SEWER STRUCTURE SCHEDULE

87 BULKHEAD & ADJUST
13+12.61 5.86'L.
COMB. MH 87
RIM 743.97
PR RIM 743.45
12" S. 734.72
10" NW. 738.82 (REMOVE/BULKHEAD)
10" NE. 734.72

EX STORM STRUCTURE SCHEDULE

87a REMOVE
13+18.83 15.00'L
CATCH BASIN 87a
RIM 743.27
12" SE. 739.07
8" E. 739.47

87b REMOVE
13+19.28 14.73'R
CATCH BASIN 87b
RIM 743.34
8" W. 740.19

EX WATER MAIN SCHEDULE

1 REMOVE
14+62.27 20.54'R
HYD 17
F.G. 747.73
PR. 8" GATE VALVE IN WELL
PR. STA. 11+98.89' 6.76' R
PR. RIM 743.38
PR. T/PIPE 738.69

2 HYDRANT & ASSEMBLY
STA 14+63.62' 18.50' L
F.G. 745.93
PR. T/PIPE 740.00

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#87A PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 743.31 PR. 12" S. INV. 739.15 PR. 12" E. INV. 739.15
#87Aa PR. 2' DIA. STORM INLET	PR. RIM 743.31 PR. 12" W. INV. 739.45
#88B PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 742.29 PR. 12" S. INV. 737.71 PR. 12" N. INV. 737.71

UTILITY CROSSING SCHEDULE

03A PR. 12" STM B/P 739.38
EX. 10" COMB T/P 735.70

03B PR. 12" STM B/P 739.33
PR. 8" W.M. T/P 737.83

03C PR. 12" STM B/P 739.41
EX. 6" W.M. T/P (REMOVE)

03D PR. 8" W.M. B/P 737.26
EX. 10" COMB. T/P 735.74

UTILITY NOTE

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LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
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PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
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PR. 10" RD. CONC. CURB & GUTTER
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SEAL

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 10+00 to 15+00 (Arlington Road)

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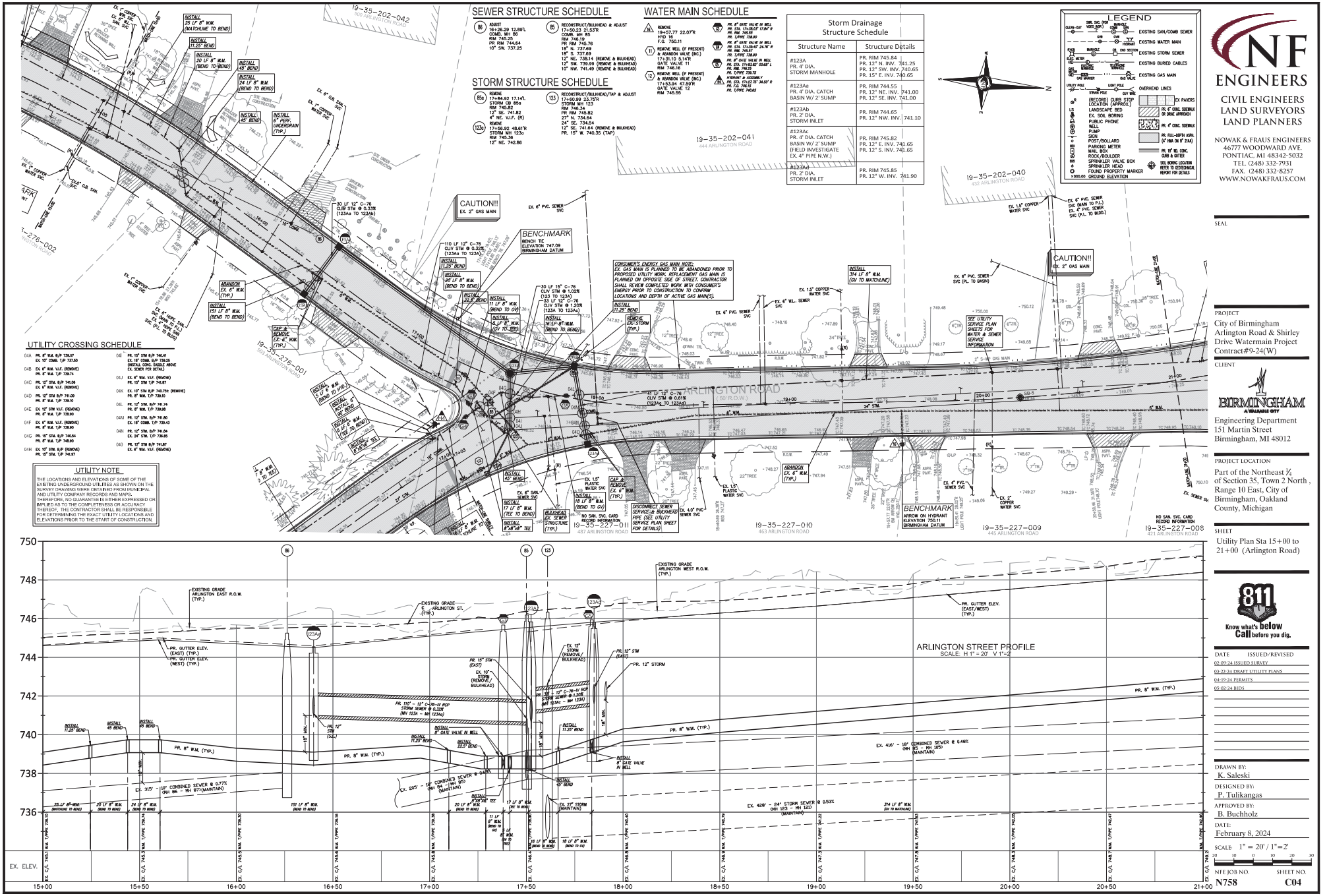
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C03



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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 15+00 to 21+00 (Arlington Road)

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
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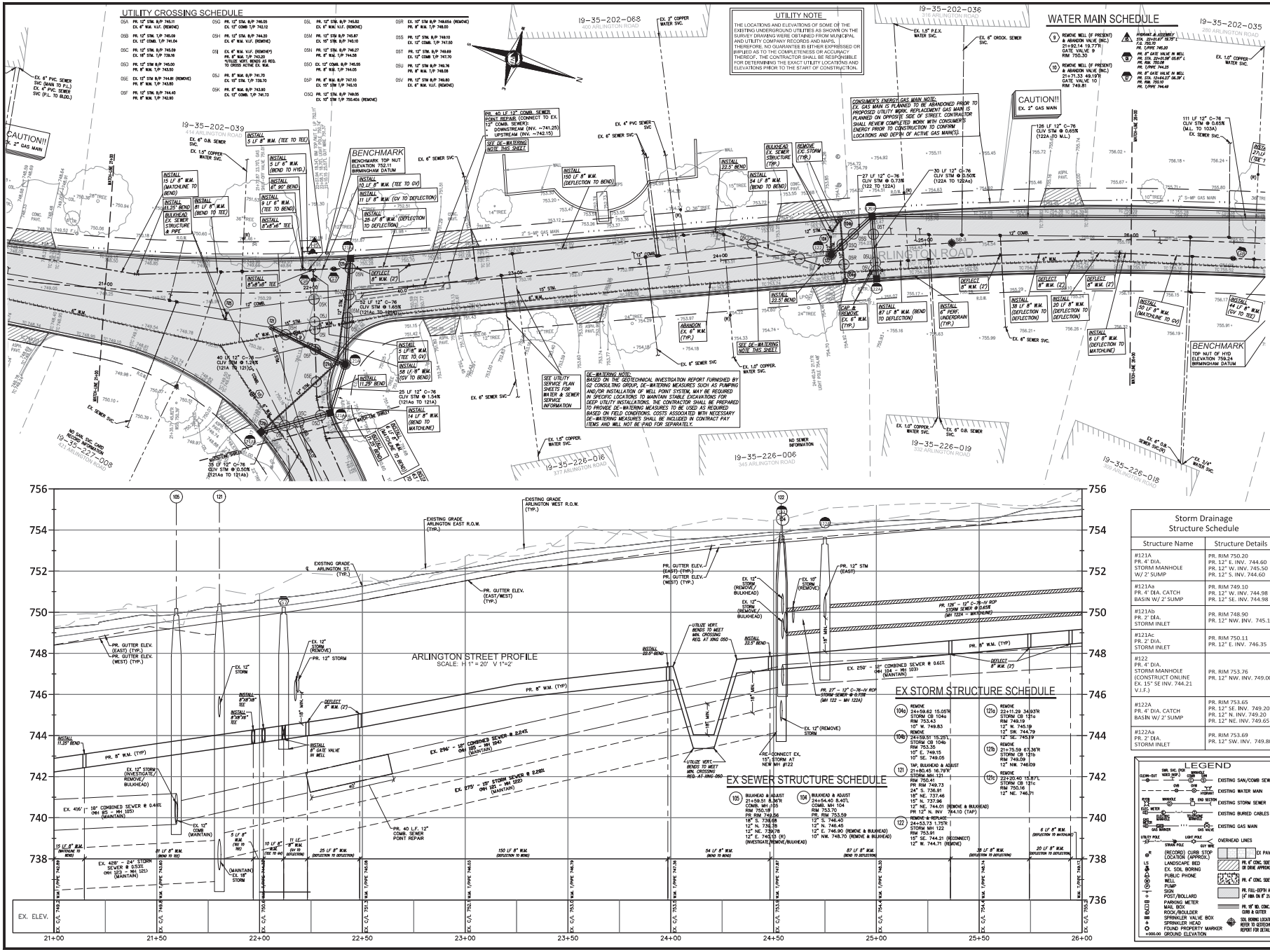
NFE JOB NO. N758
SHEET NO. C04

8D



Storm Drainage Structure Schedule	
Structure Name	Structure Details
#121A PR. 4' DIA. STORM MANHOLE W/ 2' SUMP	PR. RIM 750.20 PR. 12" E. INV. 744.60 PR. 12" W. INV. 745.50 PR. 12" S. INV. 744.60
#121Aa PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 749.10 PR. 12" W. INV. 744.98 PR. 12" SE. INV. 744.98
#121Ab PR. 2' DIA. STORM INLET	PR. RIM 748.90 PR. 12" NW. INV. 745.15
#121Ac PR. 2' DIA. STORM INLET	PR. RIM 750.11 PR. 12" E. INV. 746.35
#122 PR. 4' DIA. STORM MANHOLE (CONSTRUCT ONLINE EX. 15" SE INV. 744.21 V.I.F.)	PR. RIM 753.76 PR. 12" NW. INV. 749.00
#122A PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 753.65 PR. 12" SE. INV. 749.20 PR. 12" N. INV. 749.20 PR. 12" NE. INV. 749.65
#122Aa PR. 2' DIA. STORM INLET	PR. RIM 753.69 PR. 12" SW. INV. 749.80

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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

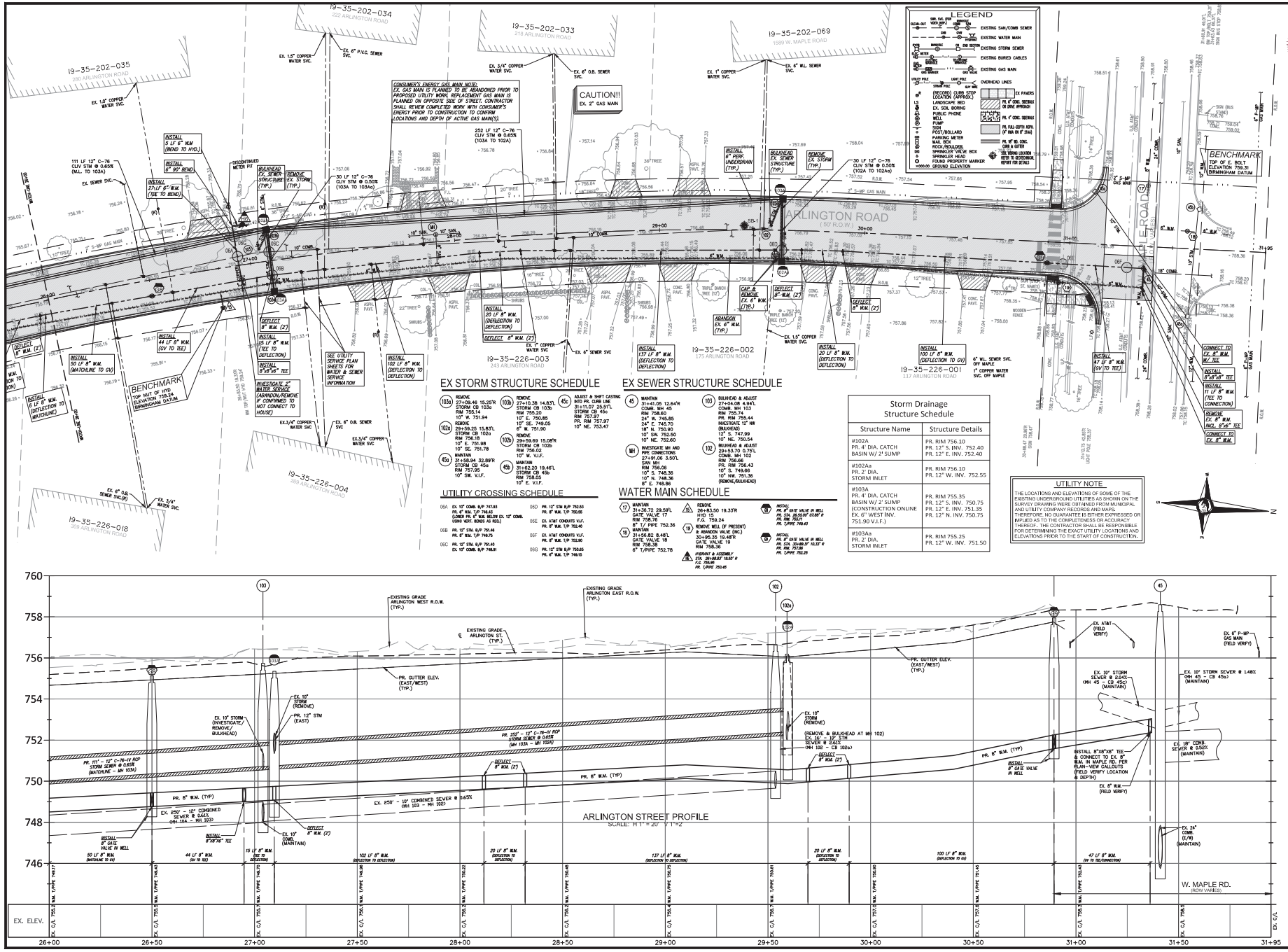
SHEET
Utility Plan Sta 21+00 to 26+00 (Arlington Road)

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C05



EX STORM STRUCTURE SCHEDULE

103a	REMOVE 27+09.46 15.25'R STORM CB 103a RIM 755.14 10" W. 751.94
102a	REMOVE 29+59.25 15.83'L STORM CB 102a RIM 756.18 10" E. 751.98 10" SE. 751.78
45a	MAINTAIN 31+58.94 32.89'R STORM CB 45a RIM 757.95 10" SW. V.I.F.
103b	REMOVE 27+10.38 14.83'L STORM CB 103b RIM 755.20 10" E. 750.85 10" SE. 749.05 6" W. 751.90
102b	REMOVE 29+59.69 15.08'R STORM CB 102b RIM 756.02 10" W. V.I.F.
45b	MAINTAIN 31+62.20 19.46'L STORM CB 45b RIM 758.05 10" E. V.I.F.
45c	ADJUST & SHIFT CASTING W/TO PR. CURB LINE 31+11.07 25.51'L STORM CB 45c RIM 757.97 PR. RIM 757.97 10" NE. 753.47

EX SEWER STRUCTURE SCHEDULE

45	MAINTAIN 31+41.05 12.64'R COMB. MH 45 RIM 758.60 24" W. 745.85 24" E. 745.70 18" N. 750.00 10" SW. 752.50 10" NE. 752.60
MH	INVESTIGATE MH AND PIPE CONNECTING 27+91.06 3.50'L SAN MH RIM 756.06 10" S. 748.36 10" N. 748.36 8" E. 748.86
103	BULKHEAD & ADJUST 27+04.08 4.94'L COMB. MH 103 RIM 755.74 PR. RIM 755.44 INVESTIGATE 12" NW (BULKHEAD) 12" S. 747.99 10" NE. 750.54
102	BULKHEAD & ADJUST 29+53.70 0.75'L COMB. MH 102 RIM 756.66 PR. RIM 756.43 10" S. 749.66 10" NW. 751.36 (REMOVE/BULKHEAD)

UTILITY CROSSING SCHEDULE

06A	EX. 10" COMB. @/F 747.83 PR. 8" W.M. T/P 746.42 (LOWER PR. 8" W.M. BELOW EX. 12" COMB. USING VERT. BENDS AS REQ.)
06B	PR. 12" STM. @/F 750.48 PR. 8" W.M. T/P 749.75
06C	PR. 12" STM. @/F 751.40 EX. 10" COMB. @/F 748.91
06D	PR. 12" STM @/F 752.53 PR. 8" W.M. T/P 750.00
06E	EX. AT&T CONDUITS V.I.F. PR. 8" W.M. T/P 752.40
06F	EX. AT&T CONDUITS V.I.F. PR. 8" W.M. T/P 752.90
06G	PR. 12" STM @/F 750.65 PR. 8" W.M. T/P 749.15

WATER MAIN SCHEDULE

17	MAINTAIN 31+36.72 29.59'L GATE VALVE 17 RIM 758.76 8" 1/ PIPE 752.36
18	MAINTAIN 31+56.82 8.48'L GATE VALVE 18 RIM 758.38 6" 1/PIPE 752.78
A	REMOVE 26+83.50 19.33'R HYD 15 F.G. 759.24
19	REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.) 30+90.35 19.48'R GATE VALVE 19 RIM 758.30
A	HYDRANT & ASSEMBLY STA. 29+69.83' 19.50' R F.G. 759.99 PR. T/PIPE 750.45
20	INSTALL PR. 8" GATE VALVE IN WELL STA. 28+55.00' 07.00' R PR. RIM 758.11 PR. T/PIPE 749.43
21	INSTALL PR. 8" GATE VALVE IN WELL STA. 32+89.07' 10.33' R PR. RIM 757.68 PR. T/PIPE 752.25

Storm Drainage Structure Schedule

Structure Name	Structure Details
#102A PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 756.10 PR. 12" S. INV. 752.40 PR. 12" E. INV. 752.40
#102Aa PR. 2' DIA. STORM INLET	PR. RIM 756.10 PR. 12" W. INV. 752.55
#103A PR. 4' DIA. CATCH BASIN W/ 2' SUMP (CONSTRUCTION ONLINE EX. 6" WEST INV. 751.90 V.I.F.)	PR. RIM 755.35 PR. 12" S. INV. 750.75 PR. 12" E. INV. 751.35 PR. 12" N. INV. 750.75
#103Aa PR. 2' DIA. STORM INLET	PR. RIM 755.25 PR. 12" W. INV. 751.50

UTILITY NOTE

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

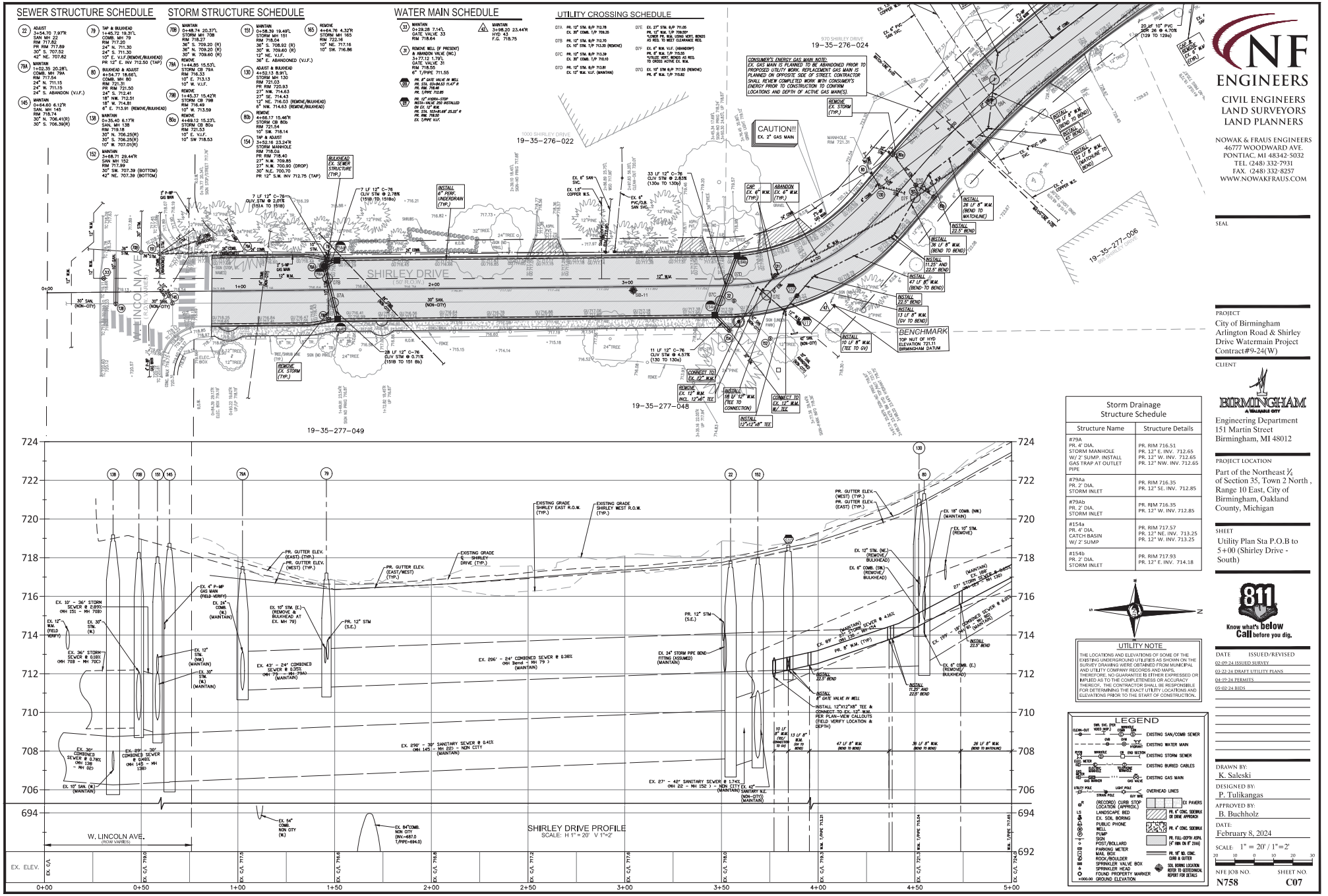
PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 26+00 to P.O.E. (Arlington Road)

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'
NFE JOB NO. N758
SHEET NO. C06



Storm Drainage Structure Schedule	
Structure Name	Structure Details
#79A PR. 4' DIA. STORM MANHOLE W/ 2' SUMP, INSTALL GAS TRAP AT OUTLET PIPE	PR. RIM 716.51 PR. 12" E. INV. 712.65 PR. 12" W. INV. 712.65 PR. 12" NW. INV. 712.65
#79Aa PR. 2' DIA. STORM INLET	PR. RIM 716.35 PR. 12" SE. INV. 712.85
#79Ab PR. 2' DIA. STORM INLET	PR. RIM 716.35 PR. 12" W. INV. 712.85
#154a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 717.57 PR. 12" NE. INV. 713.25 PR. 12" W. INV. 713.25
#154b PR. 2' DIA. STORM INLET	PR. RIM 717.93 PR. 12" E. INV. 714.18

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LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (4" MIN. ON 6" 21AA)
PR. 10" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

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Arlington Road & Shirley Drive Watermain Project
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Engineering Department
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Birmingham, MI 48012

PROJECT LOCATION
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SHEET
Utility Plan Sta P.O.B to 5+00 (Shirley Drive - South)

811 Know what's below Call before you dig.

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05-02-24	BIDS

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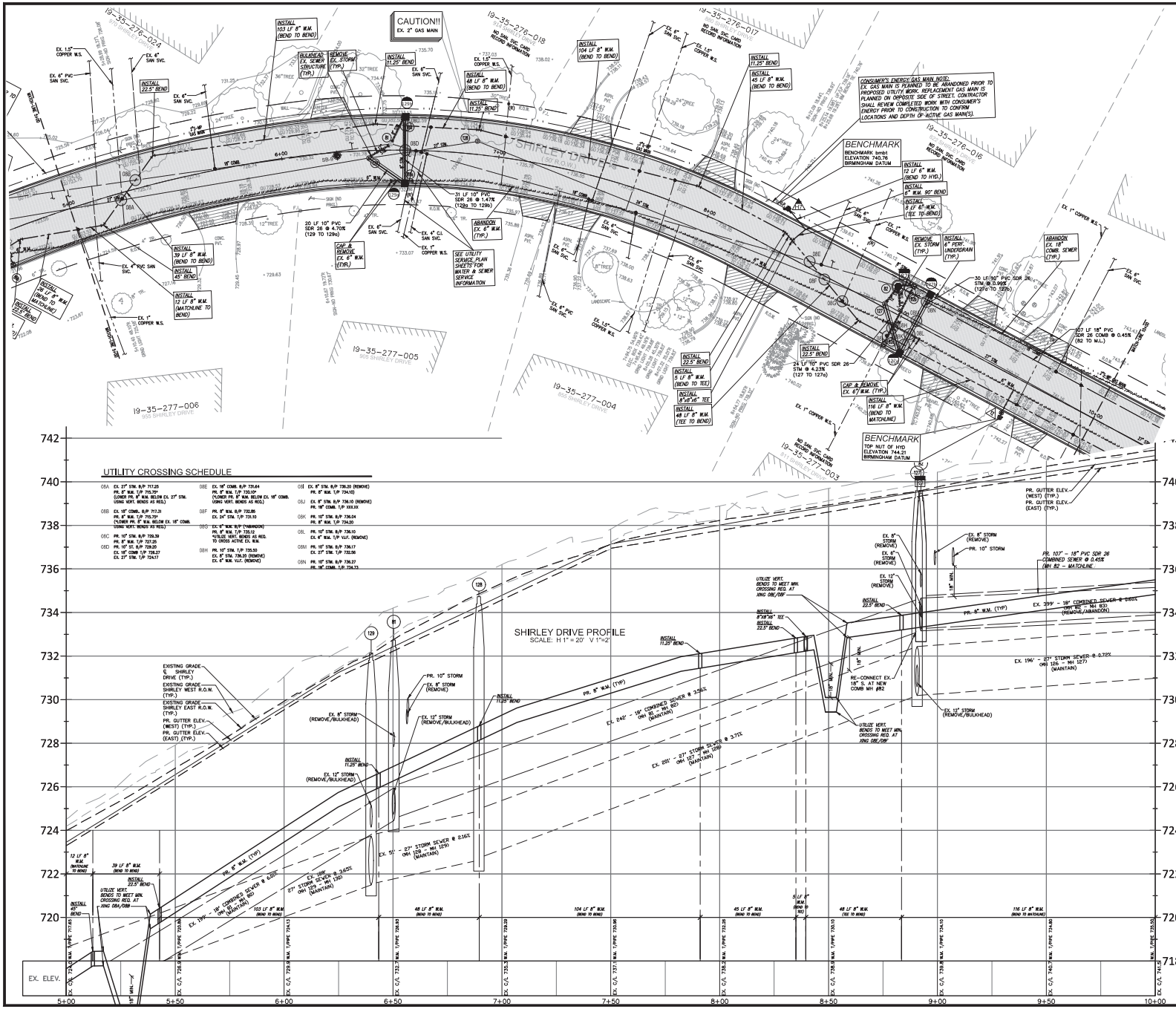
NFE JOB NO. N758
SHEET NO. C07



EX SEWER STRUCTURE SCHEDULE

81 BULKHEAD & ADJUST
6+50.35 2.90'L
COMB. MH. 81
RIM 732.74
PR RIM 732.62
18" N. 724.54
18" S. 724.44
12" SE. 724.74 (REMOVE/BULKHEAD)
8" W. 727.84 (REMOVE/BULKHEAD)

82 REMOVE & REPLACE
8+92.41 11.56'L
COMB. MH. 82
RIM 739.46
18" N. 733.26 (REMOVE/ABANDON)
18" S. 733.16 (RECONNECT)
12" SE. 733.26
8" NW. 735.16
6" NE. 733.86

EX STORM STRUCTURE SCHEDULE

129 TAP, BULKHEAD & ADJUST
6+39.96 3.44'R
STORM MH 129
RIM 732.14
PR. RIM 732.10
27" NW. 721.54
12" NW. 724.14 (REMOVE/BULKHEAD)
27" SE. 721.49
PR. 10" N. INV 728.50

128 ADJUST
6+89.49 5.98'L
STORM MH 128
RIM 734.73
PR. RIM 734.45
27" SE. 722.63
24" NE. 722.73

127 TAP, BULKHEAD & ADJUST
8+90.64 1.60'L
STORM MH 127
RIM 739.59
PR RIM 739.72
27" N. 730.19
24" S. 730.19
12" N. 730.59 (REMOVE/BULKHEAD)
PR. 10" NE. INV 735.00

82a REMOVE
8+96.92 14.85'R
STORM CB 82a
RIM 739.41
8" W. 736.11

81a REMOVE
8+56.91 15.46'R
STORM CB 81a
RIM 732.374
8" W. 729.07

82b REMOVE
8+98.70 14.97'L
STORM CB 82b
RIM 739.37
8" SW. 735.52
8" E. 736.27

81b REMOVE
6+56.01 14.75'L
STORM CB 81b
RIM 732.61
12" NE. 728.71
8" E 728.71

WATER MAIN SCHEDULE

V1 REMOVE
9+61.79 19.75'R
HYD 12
F.G. 741.24

A1 HYDRANT & ASSEMBLY
STA. 09+31.12' 19.50' L
F.G. 739.20
PR. T/PIPE 733.70

UTILITY NOTE

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Storm Drainage Structure Schedule

Structure Name	Structure Details
#127a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 739.69 PR. 10" SW. INV. 736.00 PR. 10" W. INV. 736.00
#127b PR. 2' DIA. STORM INLET	PR. RIM 739.80 PR. 10" E. INV. 736.30
#129a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 732.39 PR. 10" S. INV. 729.45 PR. 10" SW. INV. 729.00
#129b PR. 2' DIA. STORM INLET	PR. RIM 732.75 PR. 10" NE. INV. 729.45

Sanitary Structure Schedule

Structure Name	Structure Details
#82 PR. 4' DIA. COMB. MANHOLE (CONSTRUCT ONLINE EX. 18" S INV. 733.16, V.I.F.)	PR. RIM 739.61 PR. 18" N. INV. 733.16

LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FILL-DEPTH ASPH. (4" MIN ON 6" 21AA)
PR. 10" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS
NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

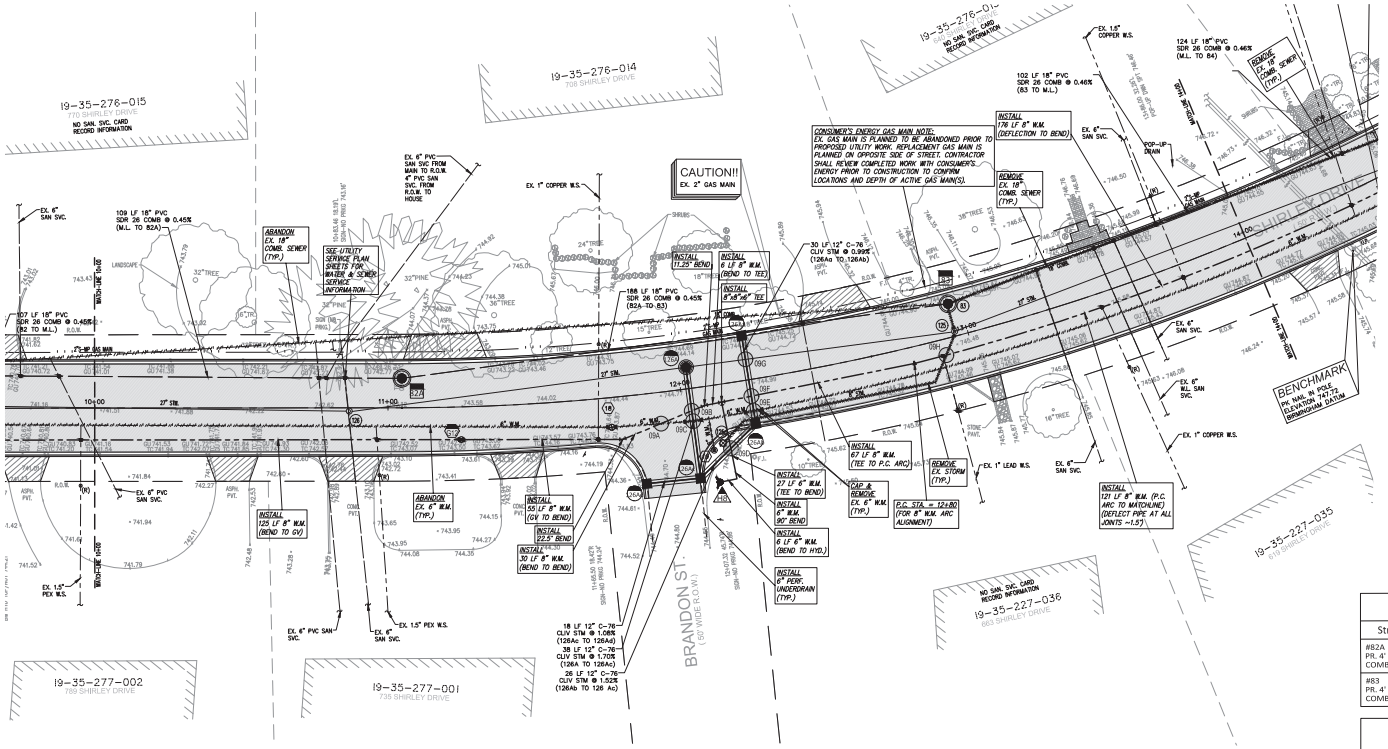
SHEET
Utility Plan Sta 5+00 to 10+00 (Shirley Drive - South)

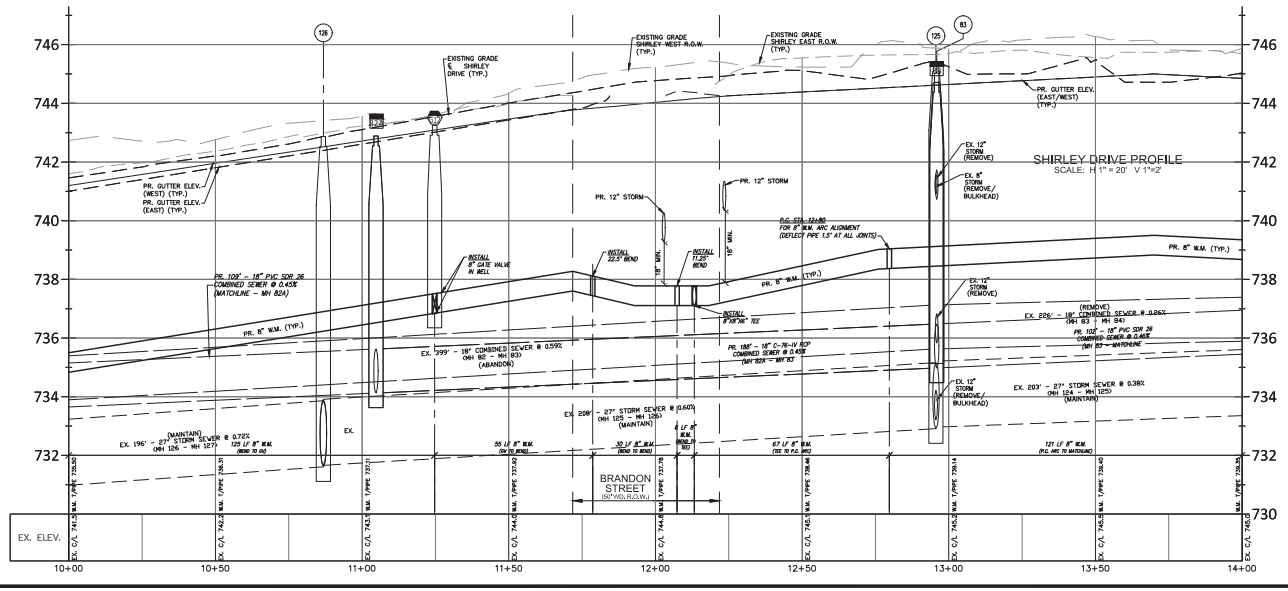
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C08





Sanitary Structure Schedule	
Structure Name	Structure Details
#82A PR. 4' DIA. COMB. MANHOLE	PR. RIM 742.89 PR. 18" S. INV. 734.13 PR. 18" N. INV. 734.13
#83 PR. 4' DIA. COMB. MANHOLE	PR. RIM 744.71 PR. 18" S. INV. 734.98 PR. 18" NW. INV. 734.98

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#126A PR. 5' DIA. STORM MANHOLE (CONSTRUCT ONLINE EX. 27" N/S INV. 732.35, V.I.F.)	PR. RIM 744.24 PR. 12" E. INV. 739.15
#126Aa PR. 2' DIA. STORM INLET	PR. RIM 744.25 PR. 12" E. INV. 740.50
#126Ab PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.25 PR. 12" W. INV. 740.20 PR. 12" SE. INV. 740.20
#126Ac PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.51 PR. 12" NW. INV. 739.80 PR. 12" W. INV. 739.80 PR. 12" S. INV. 739.80
#126Ad PR. 2' DIA. STORM INLET	PR. RIM 744.23 PR. 12" N. INV. 740.00

EX SEWER STRUCTURE SCHEDULE

(83) REMOVE & REPLACE
12+95.83' 11.31'L
COMB MH 83
RIM 745.03
18" NE. 735.63 (REMOVE)
18" SW. 735.63 (ABANDON)
12" E. 735.83 (REMOVE)
12" SW. 740.73 (REMOVE)

EX STORM STRUCTURE SCHEDULE

(126) ADJUST
10+86.78 1.15'R
STORM MH 126
RIM 742.86
PR. RIM 742.75
27" N. 731.66
27" S. 731.61

(125) BULKHEAD & ADJUST
12+95.62 1.63'L
STORM MH 125
RIM 745.41
PR. RIM 744.91
27" N. 732.96
27" S. 732.91
12" W. 733.21 (REMOVE/BULKHEAD)
8" SE. 740.91 (REMOVE/BULKHEAD)

(125a) REMOVE
12+11.73 19.99'R
STORM CB 125a
RIM 744.33
8" NW. 743.43

EX WATER MAIN SCHEDULE

(18) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
11+75 10.12'R
PER RECORD (NOT FOUND)
GATE VALVE 18
RIM 744.10

(19) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
12+08.47 22.01'R
GATE VALVE 19
RIM 744.36

(87) 6" GATE VALVE IN WELL
PR. STA. 12+04.23' 06.39'L
PR. RIM. 743.51
PR. T/PIPE 737.60

HYDRANT & ASSEMBLY
STA. 13+35.55' 17.84L
F.G. 744.80
PR. T/PIPE 739.30

UTILITY CROSSING SCHEDULE

09A EX. 6" W.M. V.I.F. (ABANDON)
PR. 6" W.M. T/P 737.77
*UTILIZE VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.

09B PR. 12" STM. B/P 739.41
PR. 6" W.M. T/P 737.77

09C PR. 12" STM. B/P 739.46
EX. 6" W.M. V.I.F. (REMOVE)

09D 12" STM. B/P 740.02
PR. 6" W.M. T/P 738.50

09E 12" STM. B/P 740.24
EX. 6" W.M. V.I.F. (REMOVE)

09F 12" STM. B/P 740.39
PR. 6" W.M. T/P 737.89

09G 12" STM. B/P 740.42
EX. 27" STM. T/P 734.73

09H EX. 8" STM. V.I.F. (REMOVE)
PR. 8" W.M. T/P 738.09

UTILITY NOTE

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LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
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- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
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- WELL
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DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
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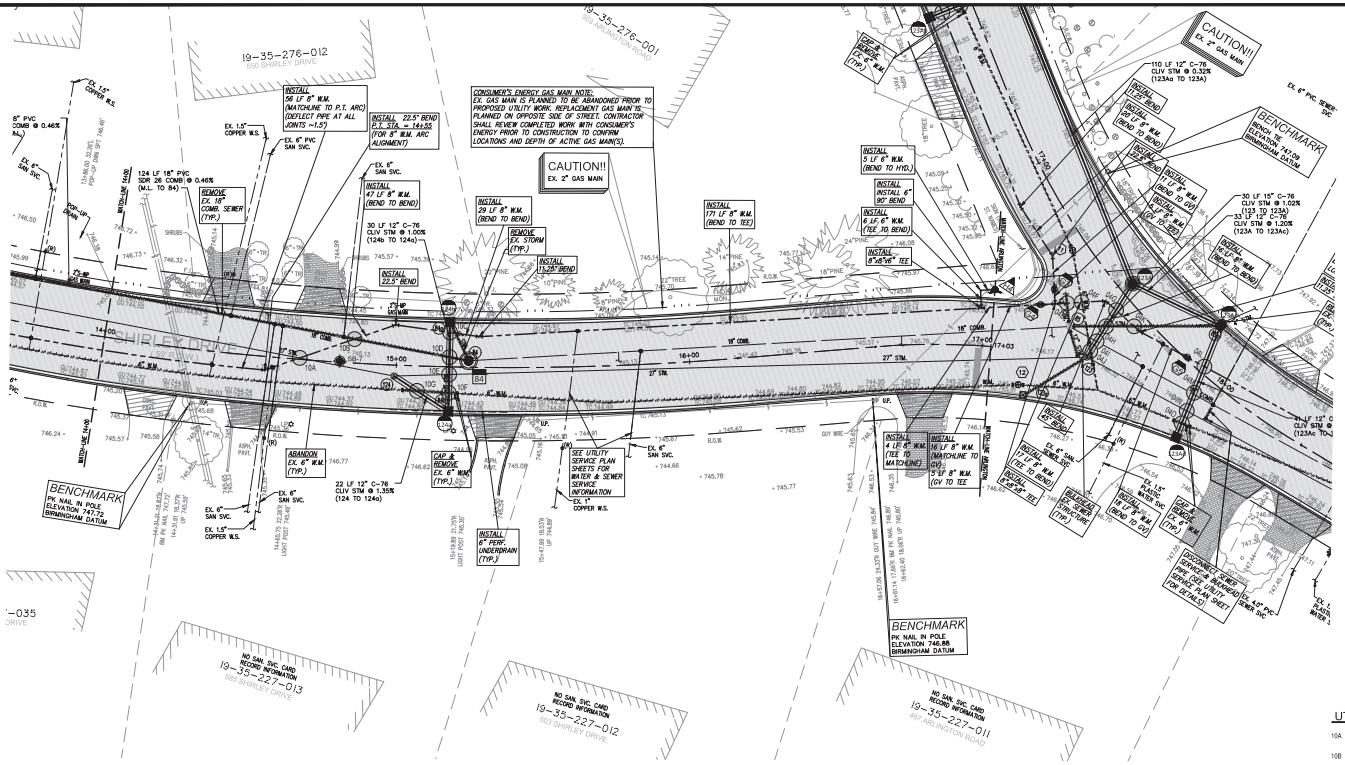
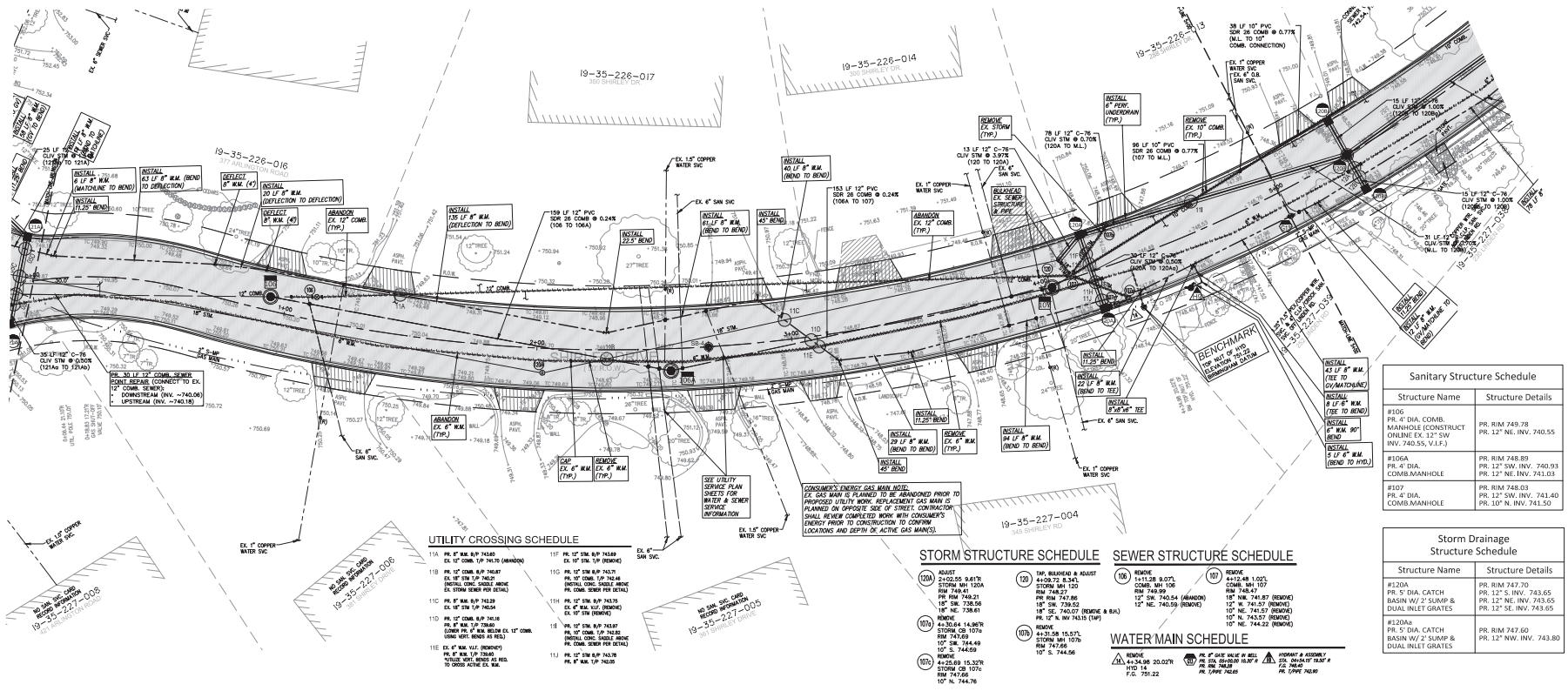
8D


SHIRLEY DRIVE
ARLINGTON ROAD
CAUTION!! EX. 2" GAS MAIN
CAUTION!! EX. 6" GAS MAIN
CONSUMER'S ENERGY GAS MAIN NOTE: EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACEMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).
BENCHMARK PK NAIL IN POLE ELEVATION 747.72 BIRMINGHAM DATUM
BENCHMARK PK NAIL IN POLE ELEVATION 740.88 BIRMINGHAM DATUM
BENCHMARK BENCH TIE ELEVATION 742.09 BIRMINGHAM DATUM
19-35-276-012
19-35-276-001
19-35-227-013
19-35-227-012
19-35-227-011
NO SAN. SVC. CARD RECORD INFORMATION
SEE UTILITY SERVICE PLAN SHEETS FOR WATER & SEWER SERVICE INFORMATION
REMOVE EX. 18" COMB. SEWER (TYP.)
REMOVE EX. STORM (TYP.)
ABANDON EX. 6" W.M. (TYP.)
CAP & REMOVE EX. 6" W.M. (TYP.)
INSTALL 6" PERF. UNDERDRAIN (TYP.)
INSTALL 56 LF 8" W.M. (MATCHLINE TO P.T. ARC) (DEFLECT PIPE AT ALL JOINTS ~1.5°)
INSTALL 22.5° BEND P.T. STA. = 14+55 (FOR 8" W.M. ARC ALIGNMENT)
INSTALL 47 LF 8" W.M. (BEND TO BEND)
INSTALL 29 LF 8" W.M. (BEND TO BEND)
INSTALL 11.25° BEND
INSTALL 171 LF 8" W.M. (BEND TO TEE)
INSTALL 6 LF 6" W.M. (TEE TO BEND)
INSTALL 5 LF 6" W.M. (BEND TO HYD.)
INSTALL 6"x6"x6" TEE
INSTALL 4 LF 6" W.M. (TEE TO MATCHLINE)
INSTALL 16 LF 8" W.M. (MATCHLINE TO GV)
INSTALL 5' LF 8" W.M. (GV TO TEE)
INSTALL 6" GATE VALVE & WELL (TYP.)
INSTALL 6" W.M. (TEE TO GV)
INSTALL 90° BEND
INSTALL 45° BEND
124 LF 18" PVC SDR 26 COMB @ 0.46% (M.L. TO 84)
30 LF 12" C-76 CLV STM @ 1.00% (124b TO 124a)
22 LF 12" C-76 CLV STM @ 1.35% (124 TO 124a)
110 LF 12" C-76 CLV STM @ 0.32% (123a TO 123A)
30 LF 15" C-76 CLV STM @ 1.02% (123 TO 123A)
33 LF 12" C-76 CLV STM @ 1.20% (123A TO 123Ac)
EX. 6" SAN SVC.
EX. 1.5" COPPER W.S.
EX. 8" PVC COMB @ 0.46%
EX. 6" PVC SAN SVC.
EX. 8" SAN SVC.
EX. 6" PVC SEWER
EX. 18" STM
EX. 12" STM
EX. 10" STM
EX. 8" W.M.
EX. 6" W.M.
EX. 4" GAS
EX. 4" PVC SEWER
EX. 6" SAN SVC.
EX. 4" SAN SVC.
EX. 1" COPPER W.S.
EX. 4" W.M.
EX. 6" W.M.
EX. 8" W.M.
EX. 12" W.M.
EX. 16" W.M.
EX. 20" W.M.
EX. 24" W.M.
EX. 30" W.M.
EX. 36" W.M.
EX. 42" W.M.
EX. 48" W.M.
EX. 54" W.M.
EX. 60" W.M.
EX. 66" W.M.
EX. 72" W.M.
EX. 78" W.M.
EX. 84" W.M.
EX. 90" W.M.
EX. 96" W.M.
EX.



UTILITY CROSSING SCHEDULE

11A	PR. 8" W.M. B/P 743.60 EX. 12" COMB. T/P 741.70 (ABANDON)	11F	PR. 12" STM. B/P 743.80 EX. 10" STM. T/P (REMOVE)
11B	PR. 12" COMB. B/P 740.87 EX. 18" STM T/P 740.31 (INSTALL CONC. SADDLE ABOVE EX. STORM SEWER PER DETAIL)	11G	PR. 12" STM B/P 743.71 PR. 10" COMB. T/P 742.48 (INSTALL CONC. SADDLE ABOVE PR. COMB. SEWER PER DETAIL)
11C	PR. 8" W.M. B/P 743.29 EX. 18" STM T/P 740.54	11H	PR. 12" STM. B/P 743.70 EX. 8" W.M. V.I.F. (REMOVE) EX. 10" STM (REMOVE)
11D	PR. 12" COMB. B/P 743.16 PR. 8" W.M. T/P 739.60 (LOWER PR. 8" W.M. BELOW EX. 12" COMB. USING VERT. BENDS AS REQ.)	11I	PR. 10" STM. B/P 743.97 PR. 10" COMB. T/P 742.82 (INSTALL CONC. SADDLE ABOVE PR. COMB. SEWER PER DETAIL)
11E	EX. 6" W.M. V.I.F. (REMOVE) PR. 8" W.M. T/P 739.65 *UTILIZE VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.	11J	PR. 12" STM B/P 743.78 PR. 8" W.M. T/P 740.00

STORM STRUCTURE SCHEDULE

120A	ADJUST 2+02.55 9.61'R STORM MH 120A RIM 749.41 PR RIM 749.21 18" SW. 738.56 18" NE. 738.61
107a	REMOVE 4+30.64 14.96'R STORM CB 107a RIM 747.09 10" SW. 744.49 10" S. 744.69
107c	REMOVE 4+25.69 15.32'R STORM CB 107c RIM 747.66 10" N. 744.76
120	TAP, BULKHEAD & ADJUST 4+09.72 8.34'L STORM MH 120 RIM 748.27 PR RIM 747.86 18" SW. 739.52 18" SE. 740.07 (REMOVE & BJL) PR. 12" N. INV 743.15 (TAP)
107b	REMOVE 4+31.58 15.57'L STORM MH 107b RIM 747.66 10" S. 744.56

SEWER STRUCTURE SCHEDULE

106	REMOVE 1+11.28 9.07'L COMB. MH 106 RIM 749.99 12" SW. 740.54 (ABANDON) 12" NE. 740.59 (REMOVE)
107	REMOVE 4+12.48 1.02'L COMB. MH 107 RIM 748.47 18" NW. 741.87 (REMOVE) 12" W. 741.57 (REMOVE) 10" NE. 741.57 (REMOVE) 10" N. 743.57 (REMOVE) 10" NE. 744.22 (REMOVE)

WATER MAIN SCHEDULE

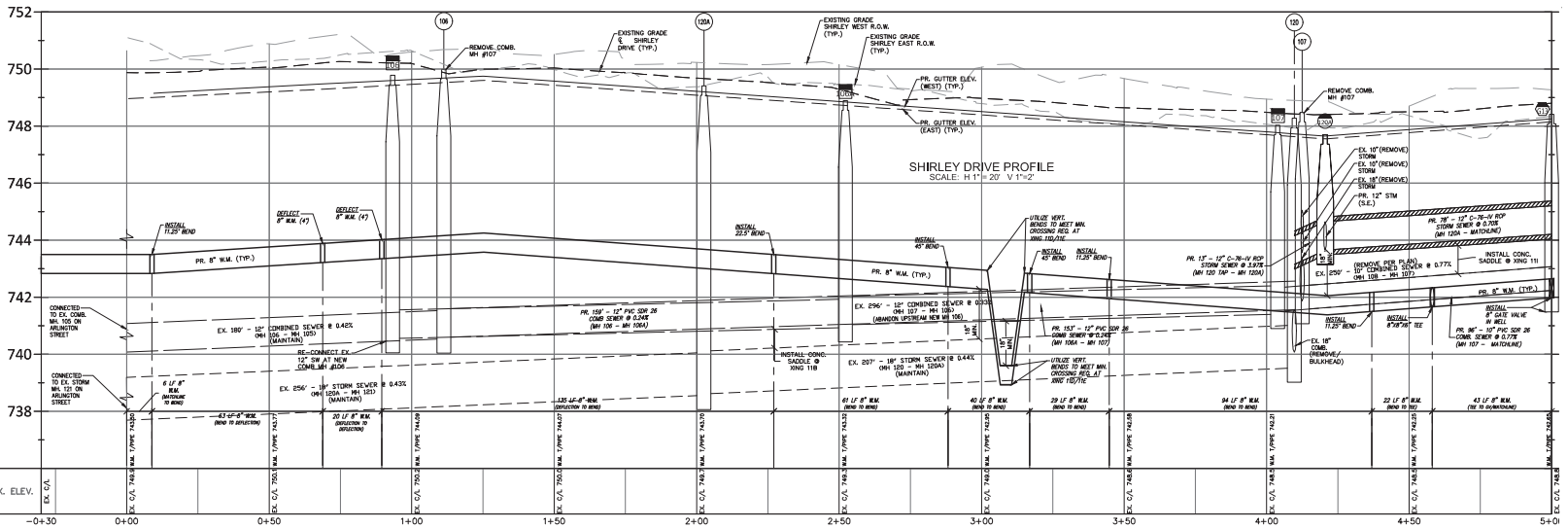
1	REMOVE 4+34.98 20.02'R HYD 14 F.G. 751.22
2	PR. 6" GATE VALVE IN WELL PR. STA. 0+00.00 19.00' R PR. RIM 748.08 PR. I.PIPE 742.65
3	HYDRANT & ASSEMBLY STA. 0+34.07' 19.00' R F.G. 748.40 PR. I.TYPE 742.90

Sanitary Structure Schedule

Structure Name	Structure Details
#106 PR. 48" DIA. COMB. MANHOLE (CONSTRUCT ONLINE EX. 12" SW INV. 740.55, V.I.F.)	PR. RIM 749.78 PR. 12" NE. INV. 740.55
#106A PR. 4' DIA. COMB.MANHOLE	PR. RIM 748.89 PR. 12" SW. INV. 740.93 PR. 12" NE. INV. 741.03
#107 PR. 4' DIA. COMB.MANHOLE	PR. RIM 748.03 PR. 12" SW. INV. 741.40 PR. 10" N. INV. 741.50

Storm Drainage Structure Schedule

Structure Name	Structure Details
#120A PR. 5' DIA. CATCH BASIN W/ 2' SUMP & DUAL INLET GRITES	PR. RIM 747.70 PR. 12" S. INV. 743.65 PR. 12" NE. INV. 743.65 PR. 12" SE. INV. 743.65
#120Aa PR. 5' DIA. CATCH BASIN W/ 2' SUMP & DUAL INLET GRITES	PR. RIM 747.60 PR. 12" NW. INV. 743.80



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EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
DECIDUOUS SHRUB
DECIDUOUS TREE
EVERGREEN TREE
LANDSCAPE ROCK
EX. SOIL BORING
PUBLIC PHONE
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
EX. GV
EX. MH
EX. CB
EX. INLET
EX. HYD.
EX. WELL
EX. FLARE
EX. GAS VALVE
EX. GAS METER
EX. UTILITY POLE
EX. LIGHT POLE
EX. STEAM POLE
EX. GUY WIRE
EX. SIGN
EX. BOLLARD
EX. TRANSFORMER
EX. AIR CONDITIONER
EX. BENCH MARK
EX. SOIL BORING
EX. CONCRETE
EX. BRICK PAVERS
EX. 4" CONC. SIDEWALK
EX. 6" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (4" min IN 3" lifts)
PR. 18" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS
×000.00 GROUND ELEVATION

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DRAWN BY: K. Saleski
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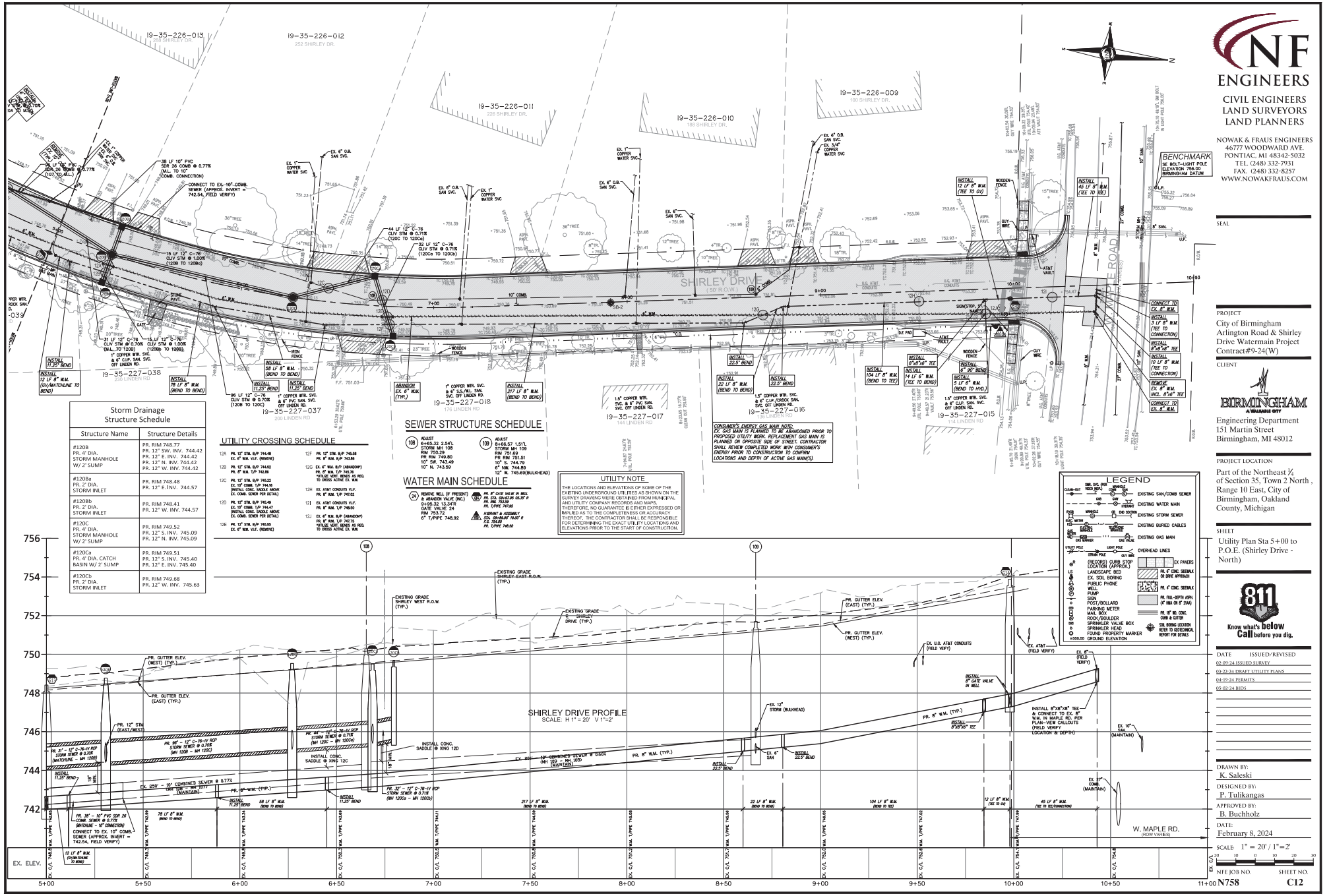

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#120B PR. 4' DIA. STORM MANHOLE W/ 2' SUMP	PR. RIM 748.77 PR. 12" SW. INV. 744.42 PR. 12" E. INV. 744.42 PR. 12" N. INV. 744.42 PR. 12" W. INV. 744.42
#120Ba PR. 2' DIA. STORM INLET	PR. RIM 748.48 PR. 12" E. INV. 744.57
#120Bb PR. 2' DIA. STORM INLET	PR. RIM 748.41 PR. 12" W. INV. 744.57
#120C PR. 4' DIA. STORM MANHOLE W/ 2' SUMP	PR. RIM 749.52 PR. 12" S. INV. 745.09 PR. 12" N. INV. 745.09
#120Ca PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 749.51 PR. 12" S. INV. 745.40 PR. 12" E. INV. 745.40
#120Cb PR. 2' DIA. STORM INLET	PR. RIM 749.68 PR. 12" W. INV. 745.63

UTILITY CROSSING SCHEDULE

12A PR. 12" STM. B/P 744.48
EX. 6" W.M. V.I.F. (REMOVE)

12B PR. 12" STM. B/P 744.52
PR. 8" W.M. T/P 742.86

12C PR. 12" STM. B/P 745.22
EX. 10" COMB. T/P 744.16
(INSTALL CONC. SADDLE ABOVE EX. COMB. SEWER PER DETAIL)

12D PR. 12" STM. B/P 745.49
EX. 10" COMB. T/P 744.67
(INSTALL CONC. SADDLE ABOVE EX. COMB. SEWER PER DETAIL)

12E PR. 12" STM. B/P 745.65
EX. 6" W.M. V.I.F. (REMOVE)

12F PR. 12" STM. B/P 745.58
PR. 8" W.M. B/P 743.86

12G EX. 6" W.M. B/P (ABANDON?)
PR. 8" W.M. T/P 743.76
*UTILITY VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.

12H EX. AT&T CONDUITS V.I.F.
PR. 8" W.M. T/P 747.02

12I EX. AT&T CONDUITS V.I.F.
PR. 8" W.M. T/P 748.50

12J EX. 6" W.M. B/P (ABANDON?)
PR. 8" W.M. T/P 747.75
*UTILITY VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.

SEWER STRUCTURE SCHEDULE

(108) ADJUST
6+65.32 2.54'L
STORM MH 108
RIM 750.29
PR RIM 749.80
10" SW. 743.49
10" N. 743.59

(109) ADJUST
8+66.57 1.51'L
STORM MH 109
RIM 751.69
PR RIM 751.51
10" S. 744.79
6" NW. 744.89
12" W. 745.69(BULKHEAD)

WATER MAIN SCHEDULE

(24) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
9+95.32 13.34'R
GATE VALVE 24
RIM 753.72
6" T/PIPE 748.92

(101) PR. 6" GATE VALVE IN WELL
PR. STA. 09+87.95 20.28' R
PR. RIM 752.59
PR. I.VERT 747.95

HYDRANT & ASSEMBLY
STA. 09+89.87 16.00' R
F.G. 754.00
PR. I.VERT 748.50

UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CONSUMER'S ENERGY GAS MAIN NOTE:
EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACEMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).

LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (4" MIN OR 6" 2520)
PR. 18" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
x000.00 GROUND ELEVATION

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

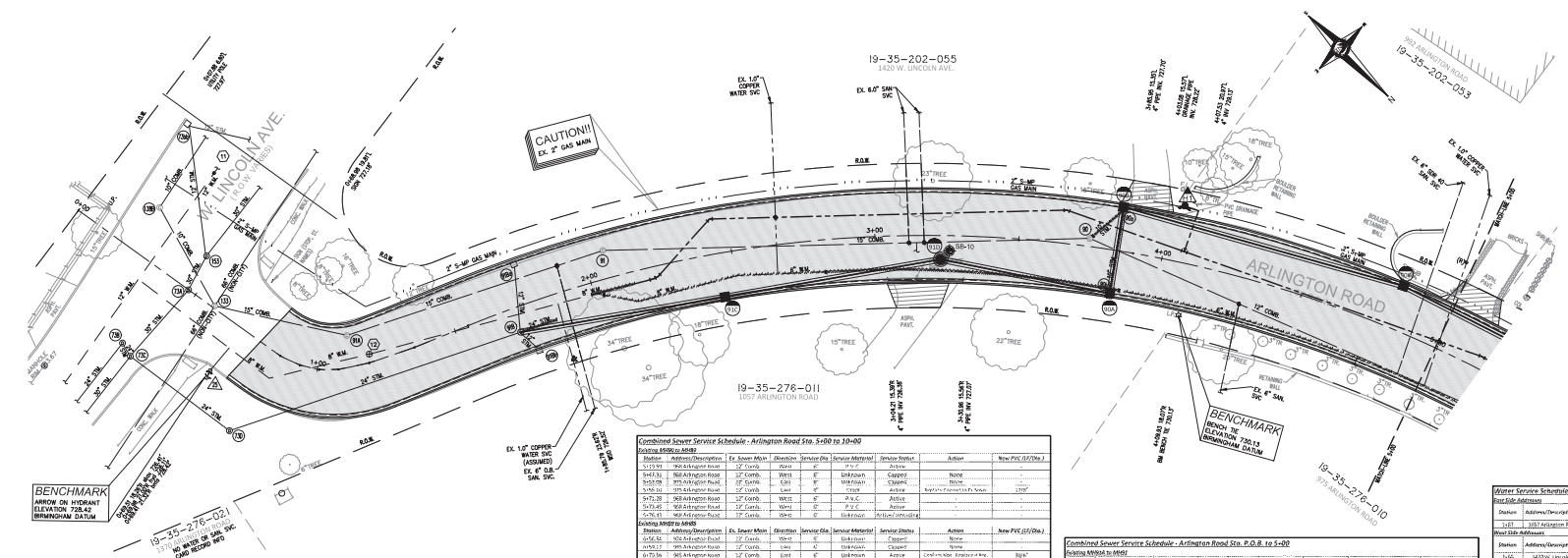
SHEET
Utility Plan Sta 5+00 to P.O.E. (Shirley Drive - North)

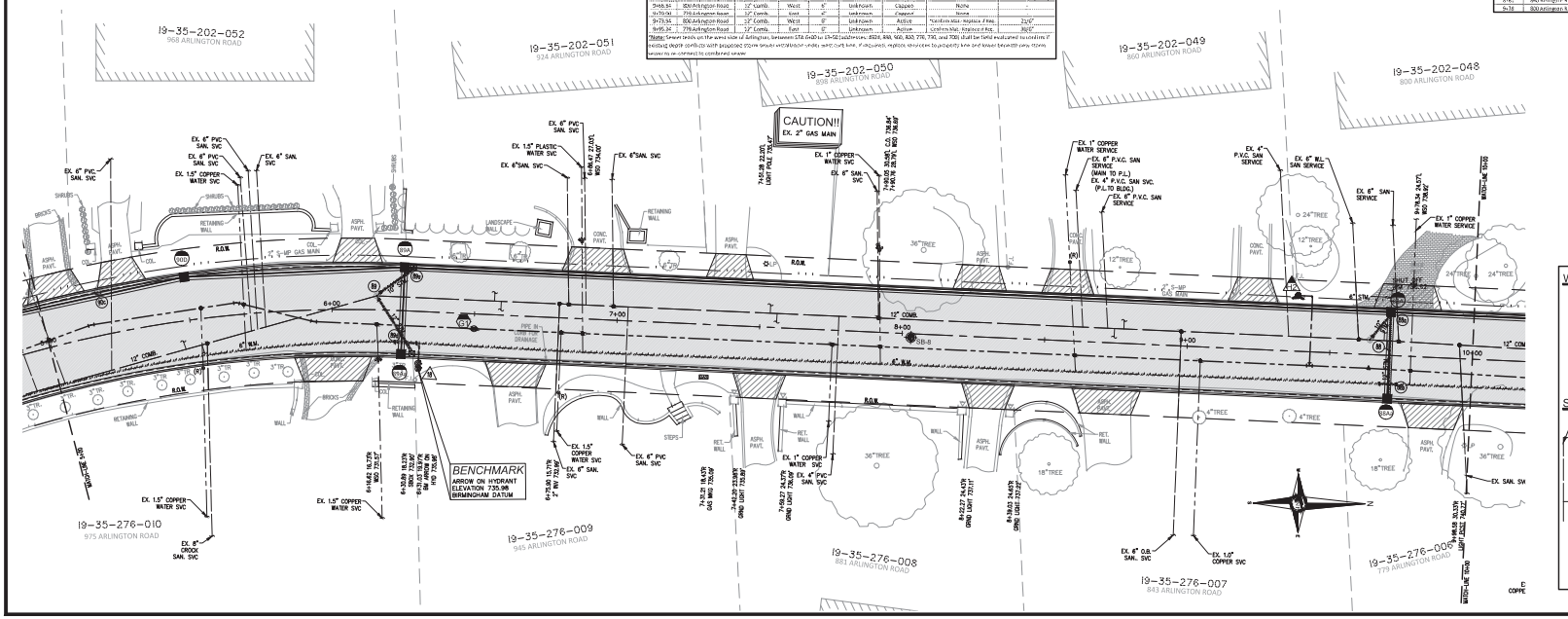
DATE ISSUED/REVISED
02-09-24 ISSUED SURVEY
03-22-24 DRAFT UTILITY PLANS
04-19-24 PERMITS
05-02-24 BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C12

8D





Combined Sewer Service Schedule - Arlington Road Sta. 5+00 to 10+00

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
5+13.93	968 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+43.31	968 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
5+52.08	975 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
5+56.10	975 Arlington Road	12" Comb.	East	6"	Clayp	Active	Replace Connection to Main	2.75'
5+71.28	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+73.45	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+76.11	908 Arlington Road	12" Comb.	West	6"	Unknown	Active (abandon)	-	-

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
6+56.56	924 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
6+59.17	975 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
6+73.56	945 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Main Replace if Req.	Repl.
6+80.76	924 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	7.50'
6+96.86	924 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	*Confirm Main Replace if Req.	-
6+96.86	924 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	2.50'
7+13.60	945 Arlington Road	12" Comb.	East	6"	P.V.C.	Active	-	-
7+53.39	908 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
7+55.49	881 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
7+77.61	881 Arlington Road	12" Comb.	East	4"	P.V.C.	Active	-	-
7+91.26	908 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	2.50'
8+03.32	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	*Insert if Req.	-
8+71.94	860 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	*Insert if Req.	-
8+72.79	860 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
8+77.56	860 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
8+97.94	843 Arlington Road	12" Comb.	East	6"	D.I.	Active	Replace Connection to Main	5.50'
9+25.34	806 Arlington Road	12" Comb.	West	4"	P.V.C.	Active	-	-
9+55.52	806 Arlington Road	12" Comb.	West	6"	W.L.	Active	Replace Connection to Main	2.50'

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
9+68.56	806 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
9+79.06	779 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
9+79.94	806 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	2.50'
9+95.36	779 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Main Replace if Req.	2.50'

*Note: Sewer leads on the west side of Arlington, between STA 6+00 to 10+50 (addresses: 820, 843, 900, 860, 806, 779, 730, and 700) shall be field evaluated to confirm if existing depth conflicts with proposed storm sewer and whether shallow, semi-cut, or full cut lead. If required, replace structure to properly line and invert beneath new storm sewer to re-connect to combined sewer.

Combined Sewer Service Schedule - Arlington Road Sta. P.O.B. to 5+00

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
1+97.94	1057 Arlington Rd.	15" Comb.	East	6"	D.I.	Likely Active	Replace Connection to Main	15.00'

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
2+11.78	1420 W. Lincoln	15" Comb.	West	6"	Unknown	Active	Confirm Main Replace if Req.	20.0'
3+14.40	1057 Arlington Rd.	15" Comb.	East	6"	Unknown	Capped	None	-
3+17.12	1420 W. Lincoln	15" Comb.	West	6"	Unknown	Active	Confirm Main Replace if Req.	20.0'

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
4+25.95	975 Arlington Rd.	12" Comb.	East	6"	Unknown	Active	Confirm Main Replace if Req.	20.0'
4+76.01	975 Arlington Rd.	12" Comb.	East	6"	Unknown	Capped	None	-
4+91.40	931 Arlington Rd.	12" Comb.	West	6"	Unknown	Active	None	-

Water Service Schedule - Arlington Road Sta. P.O.B. to 5+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
1+57	1057 Arlington Rd.	1" Copper	N/A	N/A	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
2+40	1420 W. Lincoln	1" Copper	0	1"	N

Water Service Schedule - Arlington Road Sta. 5+00 to 10+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+56	975 Arlington Rd.	1.5" Copper	77.5'	1.5"	N
6+35	945 Arlington Rd.	1.5" Copper	77.5'	1.5"	N
6+83	945 Arlington Rd.	1.5" Copper	77.5'	1.5"	N
7+70	881 Arlington Rd.	1" Copper	77'	1"	N
8+05	843 Arlington Rd.	1" Copper	61'	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+00	987 Arlington Rd.	1" Copper	0	1"	N
5+68	968 Arlington Rd.	1.5" Copper	0	1.5"	N
6+68	924 Arlington Rd.	1" Plastic	0	1.5"	N
7+93	881 Arlington Rd.	1" Copper	0	1"	N
8+43	843 Arlington Rd.	1" Copper	0	1"	N
9+18	820 Arlington Rd.	1" Copper	0	1"	N

WATER SERVICE LEGEND

- EX. WATER SERVICE (SHOWN PER RECORD, SIZE & MATERIAL VARIES — SEE SCHEDULE)
- EX. OR PR. WATER MAIN
- WATER SERVICE CONNECTION AT MAIN
- INSTALL WATER SERVICE (1" MIN. DIA. WITHIN PUBLIC R.O.W. — SEE SCHEDULE)
- R.O.W. (TYP.)
- EX. STOP-BOX NEAR R.O.W. LIMITS (SHOWN PER RECORD (R))
- INSTALL REPLACEMENT CURB STOP & BOX (WHERE REQ.) FOR NEW WATER SERVICE & RE-CONNECT EX. LINE

SANITARY SERVICE LEGEND

- EX. SANITARY SERVICE (PER RECORD-"ACTIVE")
- EX. OR PR. SEWER MAIN
- PR. SANITARY SERVICE TAP AT NEW MAIN OR CONNECTION TO EX. MAIN (SEE SCHEDULE)
- INSTALL PR. SANITARY SERVICE REPLACEMENT USING MIN. 6" DIA. PVC SDR 23.5 PIPE WITHIN PUBLIC R.O.W (OR PER SCHEDULE) & RE-CONNECT AT R.O.W.
- R.O.W. (TYP.)
- EX. SANITARY SERVICE TAP AT MAIN (PER VIDEO INSPECTION)
  - "LIKELY ACTIVE" OR
  - "NOT ACTIVE-CAPPED"

COORDINATE W/ CITY TO PERFORM FIELD INVESTIGATION (PER "EACH" PAY ITEM) AS REQUIRED TO CONFIRM "LIKELY ACTIVE" CONNECTIONS ARE ACTIVE. IF ACTIVE, REVIEW PIPE MATERIAL TO DETERMINE EXTENT OF REPLACEMENT REQUIRED AND CONNECTION REQUIREMENTS AT SEWER MAIN.

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PROJECT LOCATION
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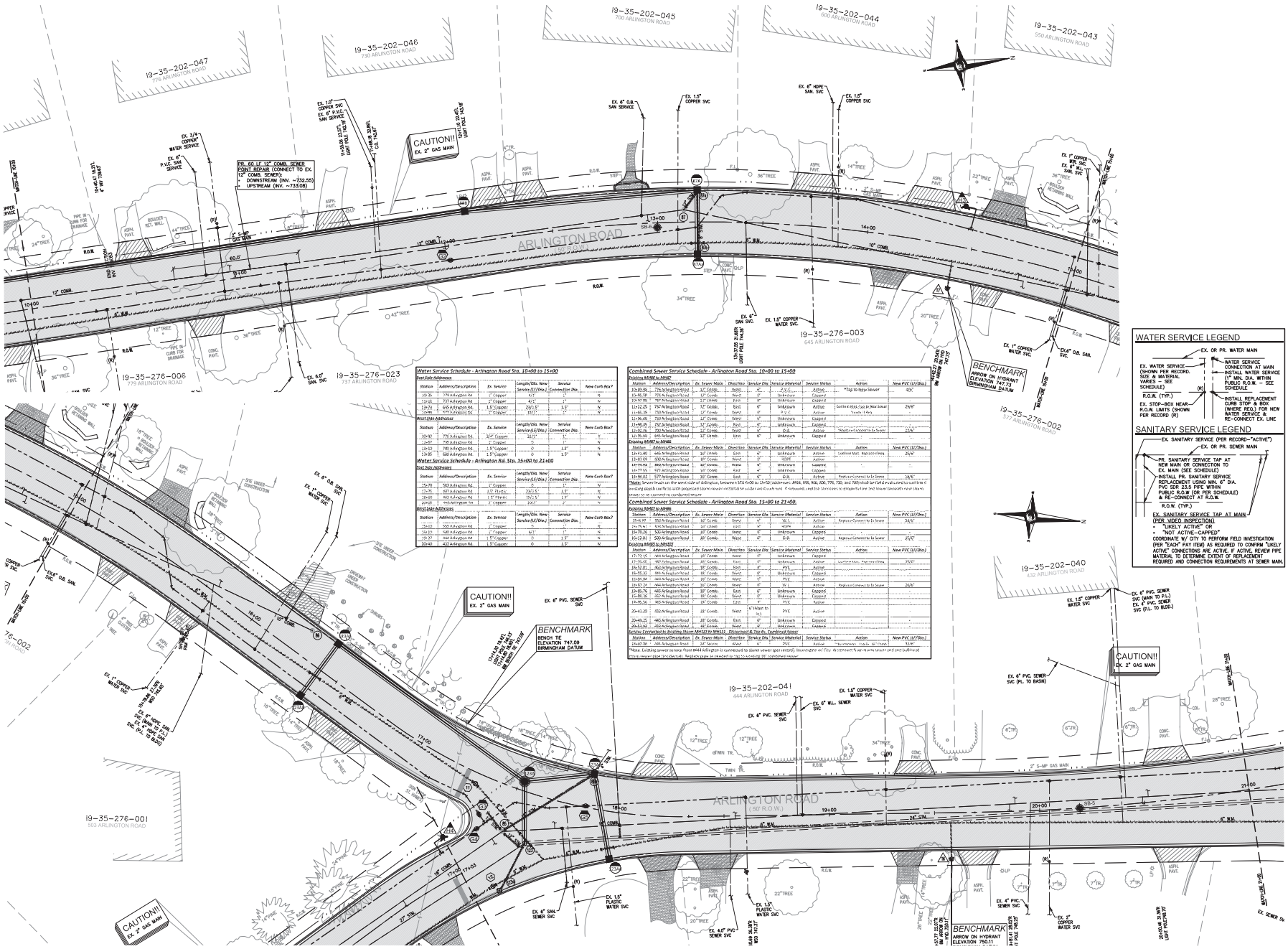
SHEET
Utility Service Plan Sta P.O.B. to 10+00 (Arlington Drive)

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: G. Sajeski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C13



Water Service Schedule - Arlington Road Sta. 10+00 to 15+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
10+35	779 Arlington Rd	1" Copper	4'/1"	1"	N
13+08	737 Arlington Rd	1" Copper	4'/1"	1"	N
13+73	645 Arlington Rd.	1.5" Copper	29'/1.5"	1.5"	N
14+86	577 Arlington Rd	1" Copper	10'/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
10+92	776 Arlington Rd	3/4" Copper	31'/1"	1"	Y
11+47	730 Arlington Rd	1" Copper	0	1"	N
13+33	707 Arlington Rd	1.5" Copper	0	1.5"	N
13+85	600 Arlington Rd	1.5" Copper		1.5"	N

Water Service Schedule - Arlington Rd. Sta. 15+00 to 21+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
15+79	503 Arlington Rd	1" Copper	0	1"	N
17+75	487 Arlington Rd	1.5" Plastic	29/1.5"	1.5"	N
18+60	460 Arlington Rd	1.5" Plastic	19/1.5"	1.5"	N
19+05	440 Arlington Rd	1" Copper	22/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
15+83	550 Arlington Rd	1" Copper	0	1"	N
16+23	520 Arlington Rd	1" Copper	6'/1"	1"	N
16+72	468 Arlington Rd	1.5" Copper	0	1.5"	N
20+40	432 Arlington Rd	1.5" Copper	0	1.5"	N

Combined Sewer Service Schedule - Arlington Road Sta. 10+00 to 15+00

Existing MH#1 to MH#2

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
10+35	776 Arlington Road	12" Comb.	West	6"	C.I./C....	Active	*Tap to New Sewer	4/6"
10+92	776 Arlington Road	12" Comb.	West	6"	Unknown	Capped	-	-
11+08	737 Arlington Road	12" Comb.	East	6"	Unknown	Capped	-	-
11+22.25	737 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Mat. Tap to New Sewer	29/6"
11+85.38	730 Arlington Road	12" Comb.	West	6"	R.C.P.	Active	*Needs 1 Ell	-
11+96.88	730 Arlington Road	12" Comb.	West	6"	Unknown	Capped	-	-
11+98.25	737 Arlington Road	12" Comb.	East	6"	Unknown	Capped	-	-
12+32.96	730 Arlington Road	12" Comb.	West	6"	O.B.	Active	*Replace w/ Lateral to Ex Sewer	22'/6"
12+75.00	645 Arlington Road	12" Comb.	East	6"	Unknown	Capped	-	-

Existing MH#2 to MH#3

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
13+41.90	645 Arlington Road	18" Comb.	East	6"	Unknown	Active	Confirm Mat. Replace if Req.	25/6"
13+81.00	630 Arlington Road	18" Comb.	West	6"	8"PVC	Active	-	-
14+94.88	860 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
14+77.55	577 Arlington Road	18" Comb.	East	6"	Unknown	Capped	-	-
14+98.63	577 Arlington Road	18" Comb.	East	6"	O.B.	Active	Replace/Connect to Ex Sewer	28/6"

Note: Sewer main on the west side of Arlington, between STA 6+00 to 15+50 (addresses: #624, 581, 556, 530, 776, 730, and 700) shall be CIPP rehabilitated to address existing depth conflicts with proposed storm sewer installation under each curb tank. If required, replace connect to property line and sewer beneath new storm sewer to re-connect to combined sewer.

Combined Sewer Service Schedule - Arlington Road Sta. 15+00 to 21+00.

Existing MH#3 to MH#4

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
15+8.99	550 Arlington Road	18" Comb.	West	6"	O.I.	Active	Replace/Connect to Ex Sewer	26/6"
15+75.41	510 Arlington Road	18" Comb.	East	6"	8"PVC	Active	-	-
16+78.26	530 Arlington Road	18" Comb.	West	8"	Unknown	Capped	-	-
16+128.1	520 Arlington Road	18" Comb.	West	8"	O.B.	Active	Replace/Connect to Ex Sewer	45/6"

Existing MH#4 to MH#5

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
17+72.15	503 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
17+76.25	487 Arlington Road	18" Comb.	East	6"	Unknown	Confirm Mat. Replace if Req.	3'/6"	
18+52.81	462 Arlington Road	18" Comb.	East	8"	PVC	Active	-	-
18+52.83	532 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
18+85.94	460 Arlington Road	18" Comb.	West	6"	PVC	Active	-	-
19+37.24	444 Arlington Road	18" Comb.	West	8"	PVC	Active	Replace/Connect to Ex Sewer	26/8"
19+85.76	440 Arlington Road	18" Comb.	East	6"	Unknown	Capped	-	-
19+88.36	532 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
19+95.96	468 Arlington Road	18" Comb.	West	6"	PVC	Active	-	-

Existing MH#5 to MH#6

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
20+41.20	432 Arlington Road	18" Comb.	West	6" (Slope to MH)	PVC	Active	-	-
20+49.25	440 Arlington Road	18" Comb.	East	6"	Unknown	Capped	-	-
20+53.60	432 Arlington Road	48" Comb.	East	6"	Unknown	Capped	-	-

Service Connected to Existing Storm MH#22 to MH#21 - Disconnect & Tap Ex. Combined Sewer

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
19+07.28	468 Arlington Road	18" Storm	West	6"	PVC	Active	*Disconnect & Tap to 18" Comb.	52/6"

Note: Existing sewer records have been inferred & combined to storm sewer (per record). Investigate w/ City. Attachment from Storm Sewer and Land Dev.pdf

Storm sewer pipe (material). Replace pipe as needed or tap to existing 18" combined sewer

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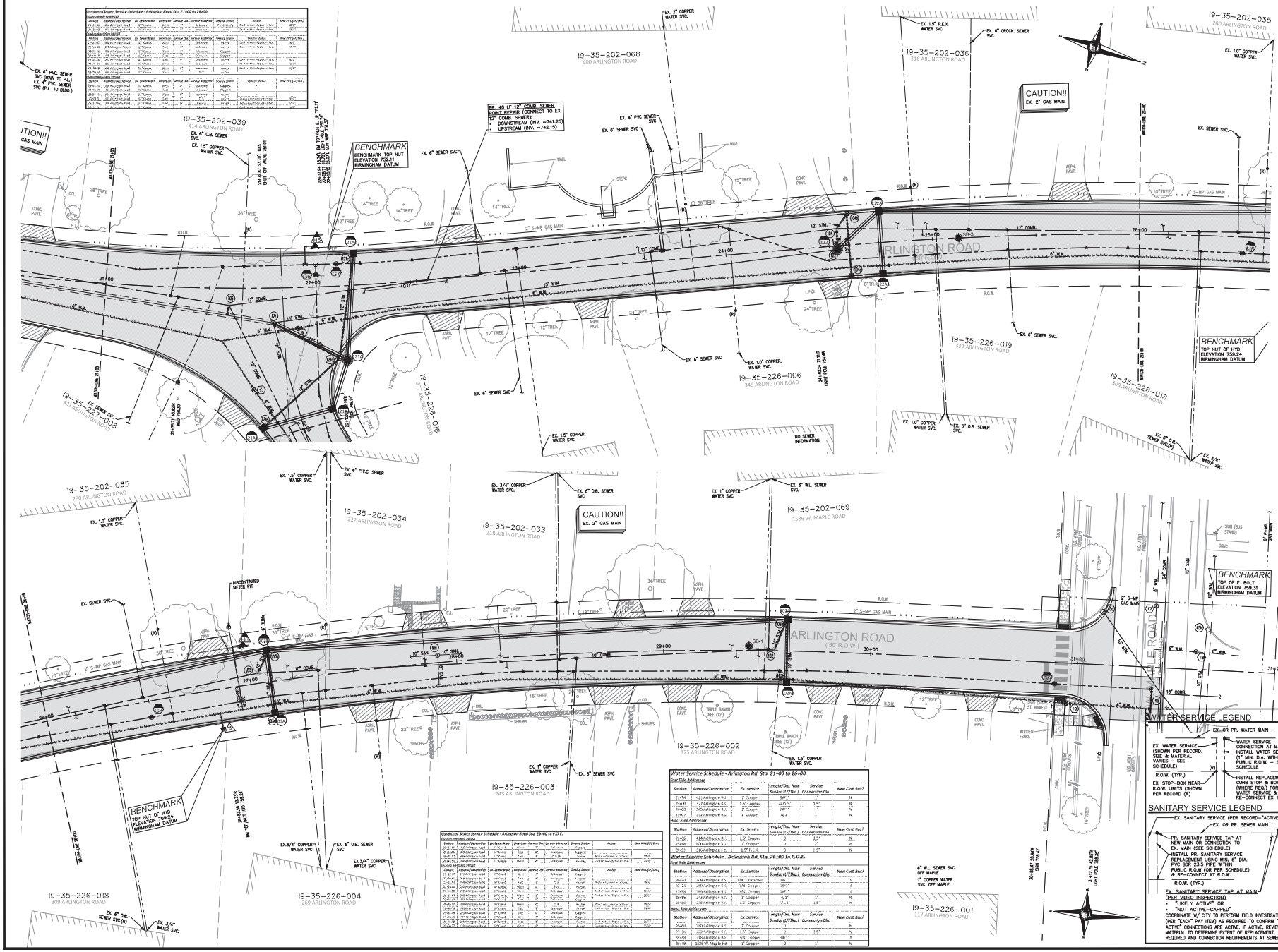
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C14



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DRAWN BY:
K. Saleski

DESIGNED BY:
P. Tulikangas

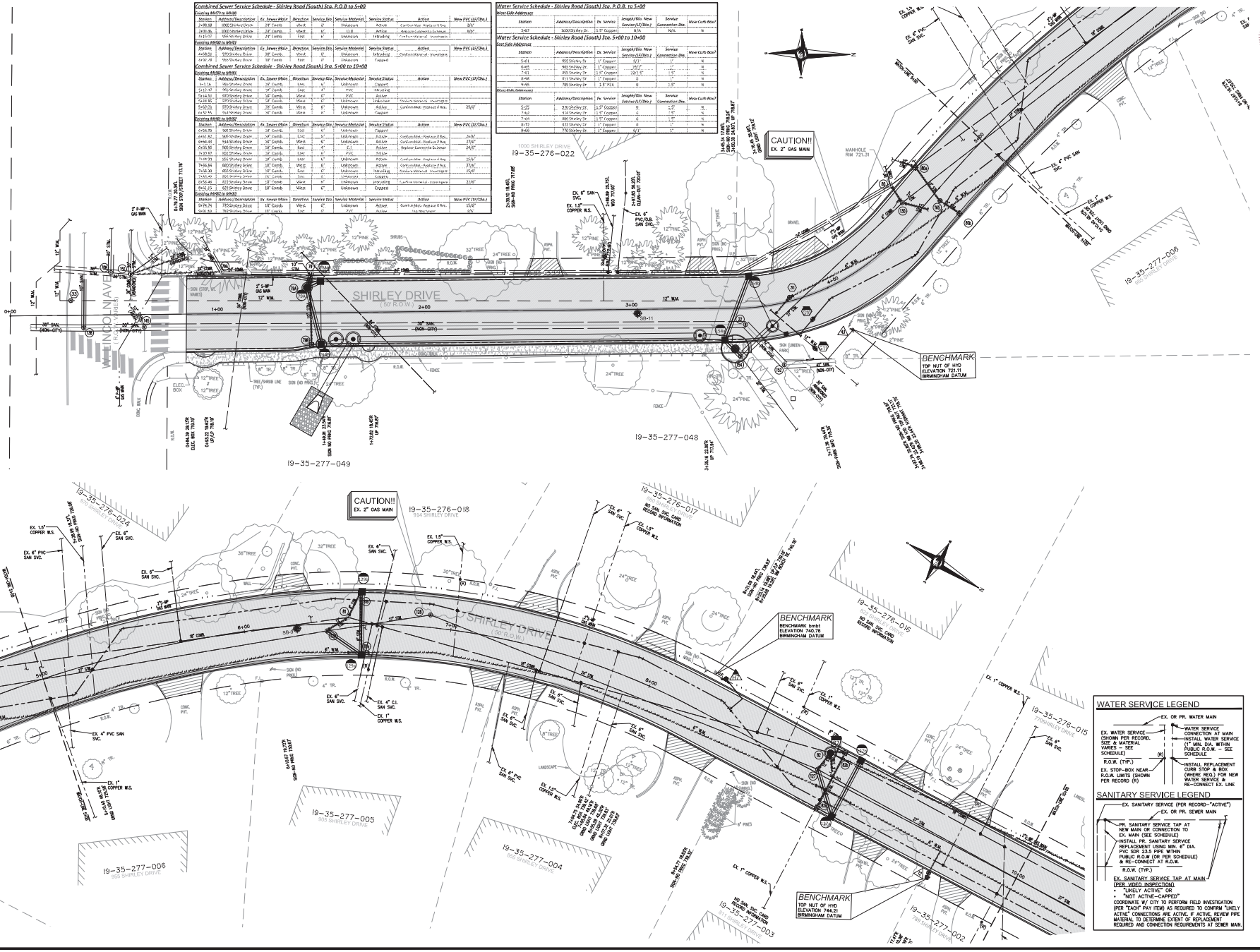
APPROVED BY:
B. Buchholz

DATE:
February 8, 2024

SCALE: 1" = 20'

NFE JOB NO. N758

SHEET NO. C15



Combined Sewer Service Schedule - Shirley Road (South) Sta. P.O.B to 5+00

Existing MH79 to MH80

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
2+88.58	1000 Shirley Drive	24" Comb.	West	6"	Unknown	Active	Confirm Mat. Replace if Req.	85'
2+91.86	1000 Shirley Drive	24" Comb.	West	6"	CI	Active	Relocate Connection to Main	80'
4+15.69	956 Shirley Drive	24" Comb.	East	6"	Unknown	Inflowing	Confirm Material - Investigate	

Existing MH80 to MH81

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
4+68.01	970 Shirley Drive	18" Comb.	West	6"	Unknown	Inflowing	Confirm Material - Investigate	
4+97.78	966 Shirley Drive	18" Comb.	East	6"	Unknown	Capped		

Combined Sewer Service Schedule - Shirley Road (South) Sta. 5+00 to 10+00

Existing MH81 to MH82

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
5+1.36	964 Shirley Drive	18" Comb.	East	6"	Unknown	Capped		
5+12.70	964 Shirley Drive	18" Comb.	East	6"	PVC	Inflowing		
5+34.91	970 Shirley Drive	18" Comb.	West	6"	PVC	Active		
5+38.90	970 Shirley Drive	18" Comb.	West	6"	Unknown	Unknown	Confirm Material - Investigate	
5+60.01	972 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat. Replace if Req.	25/6"
5+62.55	974 Shirley Drive	18" Comb.	West	6"	Unknown	Capped		

Existing MH82 to MH83

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
6+06.70	965 Shirley Drive	18" Comb.	East	6"	Unknown	Capped		
6+41.82	969 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat. Replace if Req.	24/6"
6+64.42	974 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat. Replace if Req.	27/6"
6+66.86	965 Shirley Drive	18" Comb.	East	6"	CI	Active	Replace Connect to Ex Sewer	24/6"
7+39.97	954 Shirley Drive	18" Comb.	East	6"	PVC	Active		
7+69.79	954 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat. Replace if Req.	35/6"
7+86.84	950 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat. Replace if Req.	37/6"
7+96.90	955 Shirley Drive	18" Comb.	East	6"	Unknown	Inflowing	Confirm Material - Investigate	45/6"
8+40.40	955 Shirley Drive	18" Comb.	East	6"	Unknown	Capped		
8+56.46	923 Shirley Drive	18" Comb.	West	6"	Unknown	Inflowing	Confirm Material - Investigate	22/6"
9+02.35	922 Shirley Drive	18" Comb.	West	6"	Unknown	Capped		

Existing MH87 to MH83

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
9+74.74	770 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat. Replace if Req.	15/6"
9+91.66	783 Shirley Drive	18" Comb.	East	6"	PVC	Active	Tap Mainsaver	6/6"

Water Service Schedule - Shirley Road (South) Sta. P.O.B. to 5+00

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
2+87	1630 Shirley Dr.	1.5" Copper	N/A	N/A	N

Water Service Schedule - Shirley Road (South) Sta. 5+00 to 10+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+01	950 Shirley Dr.	1" Copper	45'	1"	N
6+65	965 Shirley Dr.	1" Copper	25/1"	1"	N
7+01	955 Shirley Dr.	1.5" Copper	22/1.5"	1.5"	N
8+48	951 Shirley Dr	1" Copper	0	1"	N
9+96	789 Shirley Dr	1.5" PEX	0	1.5"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+25	930 Shirley Dr.	1.5" Copper	0	1.5"	N
7+42	914 Shirley Dr.	1.5" Copper	0	1.5"	N
7+96	880 Shirley Dr.	1.5" Copper	0	1.5"	N
9+72	822 Shirley Dr	1" Copper	0	1"	N
9+90	770 Shirley Dr.	1" Copper	6/1"	1"	N

WATER SERVICE LEGEND

EX. OR PR. WATER MAIN

EX. WATER SERVICE (SHOWN PER RECORD. SIZE & MATERIAL VARIES — SEE SCHEDULE)

R.O.W. (TYP.)

EX. STOP--BOX NEAR R.O.W. LIMITS (SHOWN PER RECORD (R))

WATER SERVICE CONNECTION AT MAIN

INSTALL WATER SERVICE (1" MIN. DIA. WITHIN PUBLIC R.O.W. — SEE SCHEDULE

INSTALL REPLACEMENT CURB STOP & BOX (WHERE REQ.) FOR NEW WATER SERVICE & RE-CONNECT EX. LINE

SANITARY SERVICE LEGEND

EX. SANITARY SERVICE (PER RECORD--"ACTIVE")

EX. OR PR. SEWER MAIN

PR. SANITARY SERVICE TAP AT NEW MAIN OR CONNECTION TO EX. MAIN (SEE SCHEDULE)

INSTALL PR. SANITARY SERVICE REPLACEMENT USING MIN. 6" DIA. PVC SDR 23.5 PIPE WITHIN PUBLIC R.O.W (OR PER SCHEDULE) & RE--CONNECT AT R.O.W.

R.O.W. (TYP.)

EX. SANITARY SERVICE TAP AT MAIN (PER VIDEO INSPECTION)

- "LIKELY ACTIVE" OR
- "NOT ACTIVE--CAPPED"

COORDINATE W/ CITY TO PERFORM FIELD INVESTIGATION (PER "EACH" PAY ITEM) AS REQUIRED TO CONFIRM "LIKELY ACTIVE" CONNECTIONS ARE ACTIVE. IF ACTIVE, REVIEW PIPE MATERIAL TO DETERMINE EXTENT OF REPLACEMENT REQUIRED AND CONNECTION REQUIREMENTS AT SEWER MAIN.

NF ENGINEERS
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Service Plan Sta P.O.B. to 10+00 (Shirley - South)

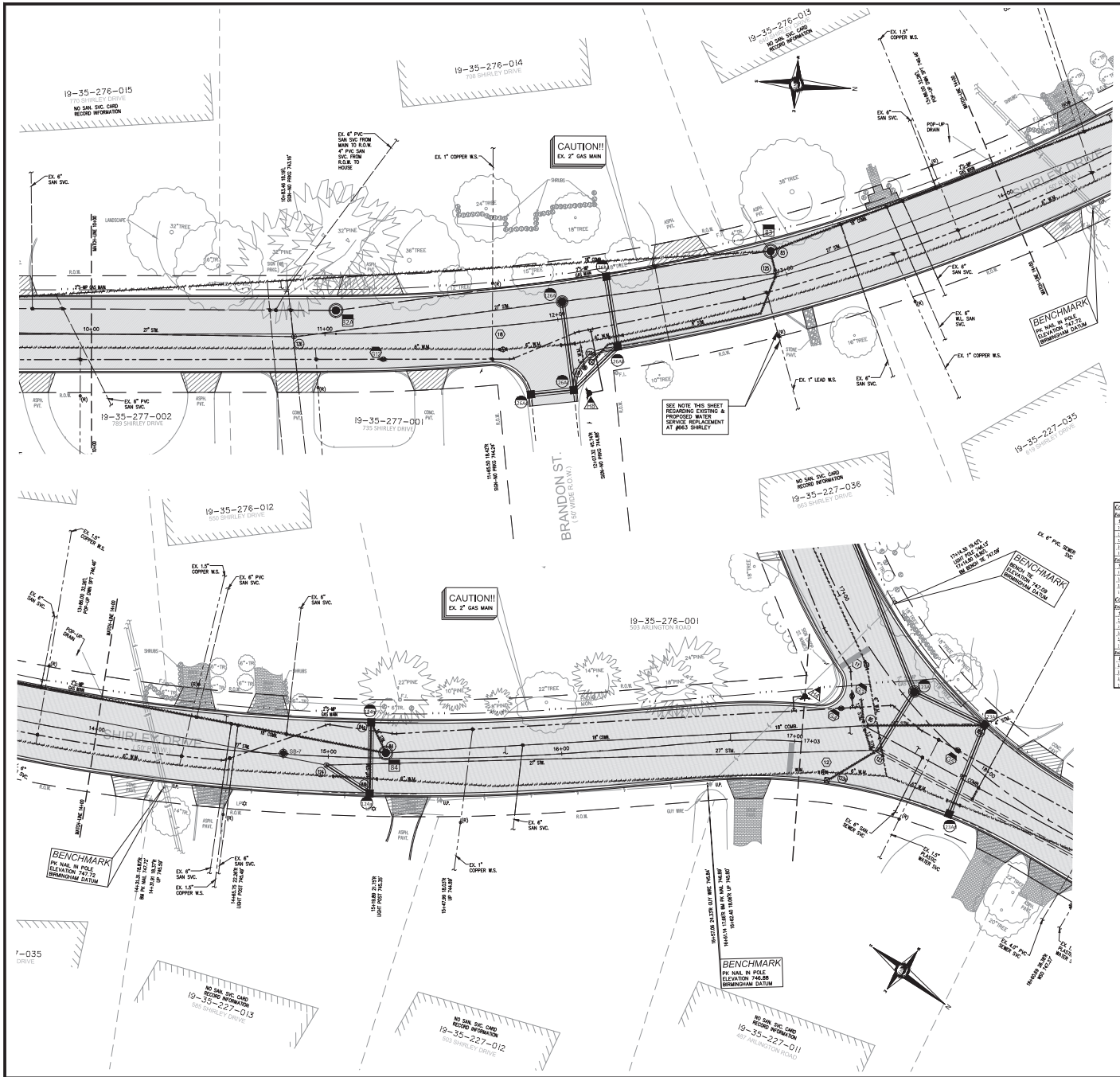
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C16

8D



Water Service Schedule - Shirley Road (South) Sta. 10+00 to 14+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
10+98	735 Shirley Dr	1.5" PVC	0	1.5"	N
11+40	7463 Shirley Dr *	1" Lead	30.5'*	1"	Y
13+48.7	619 Shirley Dr	1" Copper	4/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
11+71	708 Shirley Dr	1" Copper	5/1"	1"	N
13+75	640 Shirley Dr	1.5" Copper	0	1.5"	N

*Note: Records indicate a lead water service at #663 Shirley likely exists between ROW and main, but may have previously been replaced with copper material between the ROW and house meter. Inspection to other work items in the contract, and in advance of the water main replacement work, the Contractor shall perform inspection excavation on both the west of the stub off valve near the ROW to confirm materials on each side, and shall be prepared to replace both "public" and "private" portions of the service line using applicable pay items for each. If required, replacement of the "private" portion of the service line between the ROW and house meter shall be paid using the following pay items: "New Water Service", c. Private Property/Bounds, PPP", and "Water Service Connection - 1", Connection at Meter, 663 Shirley".

Water Service Schedule - Shirley Road (South) Sta. 14+00 to P.O.E.

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
14+59	565 Shirley Dr.	1.5" Copper	6/1.5"	1.5"	N
15+02	559 Shirley Dr.	1" Copper	24/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
14+38	550 Shirley Dr.	1.5" Copper	0	1.5"	N

Combined Sewer Service Schedule - Shirley Road (South) Sta. 10+00 to 14+00

Existing MH02 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
10+76.52	738 Shirley Drive	18" Comb.	East	6"	PVC	Active	Tap into New Sewer	6'/6"
10+96.04	748 Shirley Drive	18" Comb.	West	6"	PVC	Active	Existing & Lay New Sewer	12'+"
10+52.10	726 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
10+82.48	716 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	30'/6"
11+40.98	663 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Material, Investigate	51'/6"

Existing MH02 to MH04

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
11+38.27	663 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	40'/6"
11+89.79	639 Shirley Drive	18" Comb.	East	6"	W.L.	Active	Replace Tap to Sewer	5'/6"
12+52.31	629 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	42/6"
13+71.00	619 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat., Replace if Req.	59/6"

Combined Sewer Service Schedule - Shirley Road (South) Sta. 14+00 to P.O.E

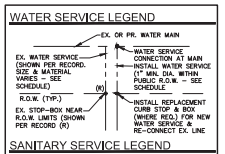
Existing MH02 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
14+42.16	550 Shirley Drive	18" Comb.	West	6"	PVC	Active	Tap into New Sewer	6/6"
14+59.09	560 Shirley Drive	18" Comb.	West	6"	Unknown	Capped	-	-
14+37.99	565 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	37/6"
14+60.20	550 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	36/6"
14+17.46	550 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat., Replace if Req.	26/6"

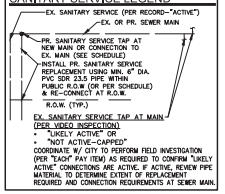
Existing MH04 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
15+75.95	559 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
15+61.46	563 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	30/6"
16+72.55	487 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
17+26.07	487 Arlington Rd.	18" Comb.	East	6"	Unknown	Capped	-	-

WATER SERVICE LEGEND



SANITARY SERVICE LEGEND



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SEAL

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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Engineering Department
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Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

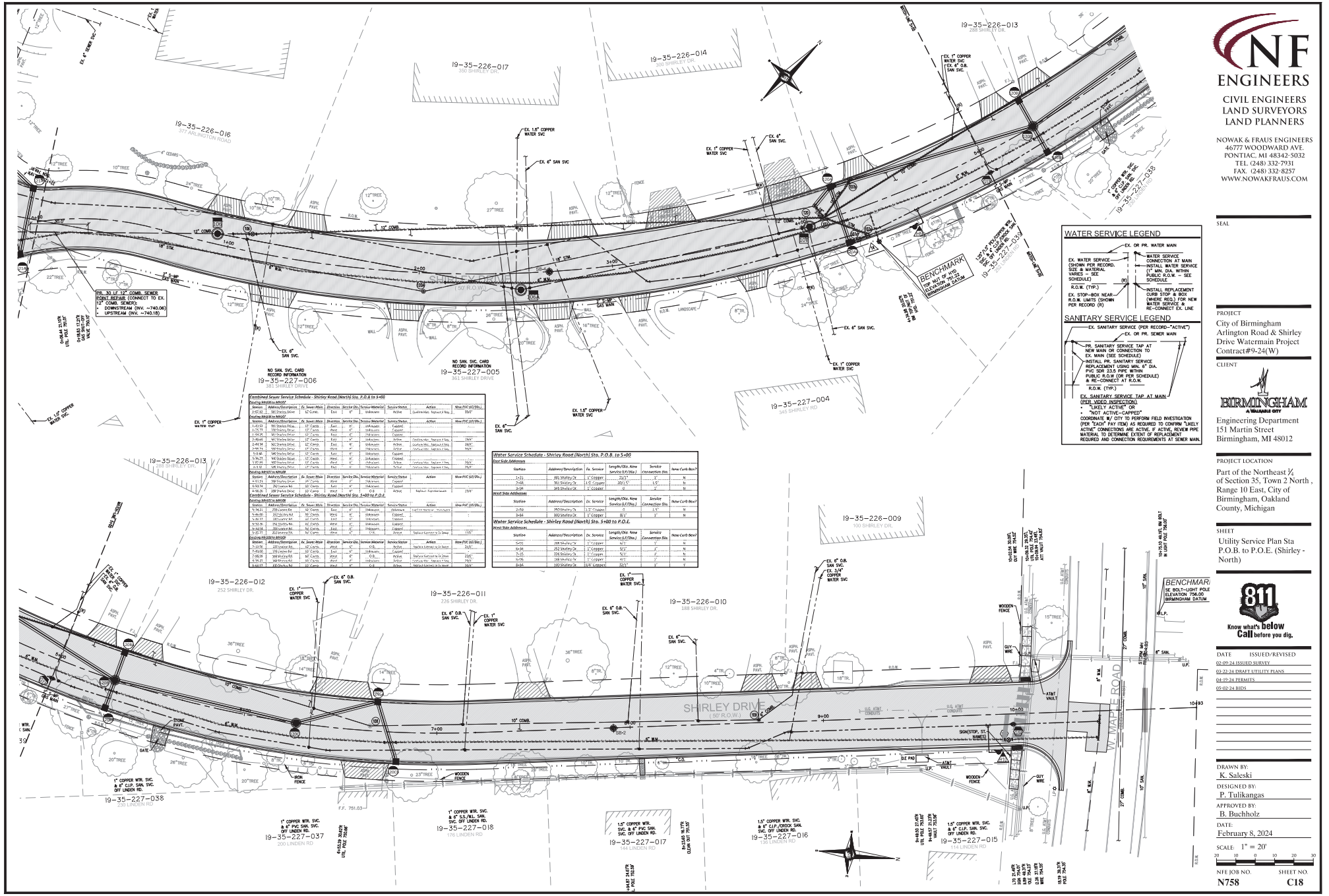
SHEET
Utility Service Plan Sta 10+00 to P.O.E. (Shirley - South)

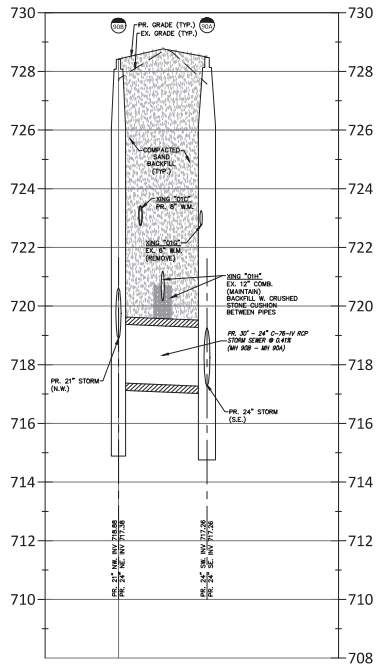
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

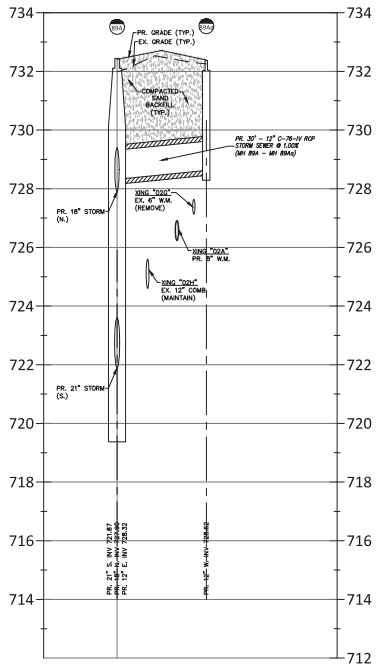
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C17

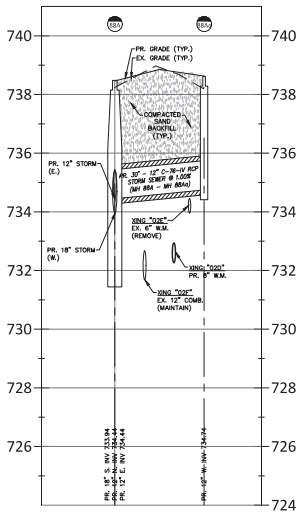

SHIRLEY DRIVE
(50' R.O.W.)
W. WAPPLE ROAD
(60' R.O.W.)
19-35-226-013
288 SHIRLEY DR.
19-35-226-014
300 SHIRLEY DR.
19-35-226-017
350 SHIRLEY DR.
19-35-226-016
377 ARLINGTON ROAD
19-35-227-006
351 SHIRLEY DRIVE
19-35-227-005
361 SHIRLEY DRIVE
19-35-227-004
345 SHIRLEY RD
19-35-226-012
252 SHIRLEY DR.
19-35-226-011
226 SHIRLEY DR.
19-35-226-010
188 SHIRLEY DR.
19-35-226-009
100 SHIRLEY DR.
19-35-227-038
230 LINDEN RD
19-35-227-037
200 LINDEN RD
19-35-227-018
176 LINDEN RD
19-35-227-017
164 LINDEN RD
19-35-227-016
136 LINDEN RD
19-35-227-015
114 LINDEN RD
19-35-227-033
WATER SERVICE LEGEND
SANITARY SERVICE LEGEND
BENCHMARK
BENCHMARK
FR. 30 LF 12" COMB. SEWER FOINT REPAIR (CONNECT TO EX. 12" COMB. SEWER):
• DOWNSTREAM (INV. =740.06)
• UPSTREAM (INV. =740.18)
NO SAN. SVC. CARD RECORD INFORMATION
NO SAN. SVC. CARD RECORD INFORMATION
Combined Sewer Service Schedule - Shirley Road (North) Sta. P.O.B. to 3+00
Existing MH/DB to MH/DT
Combined Sewer Service Schedule - Shirley Road (North) Sta. 3+00 to P.O.E.
Existing MH/DT to MH/DB
Existing MH/DT to MH/DB
Water Service Schedule - Shirley Road (North) Sta. P.O.B. to 3+00
East Side Addresses
West Side Addresses
Water Service Schedule - Shirley Road (North) Sta. 3+00 to P.O.E.
West Side Addresses
1" COPPER WTR. SVC. & 6" PVC SAN. SVC. OFF LINDEN RD.
1" COPPER WTR. SVC. & 6" S.S./W.L. SAN. SVC. OFF LINDEN RD.
1.5" COPPER WTR. SVC. & 6" PVC SAN. SVC. OFF LINDEN RD.
1.5" COPPER WTR. SVC. & 6" C.I.P./DOCK SAN. SVC. OFF LINDEN RD.
1.5" COPPER WTR. SVC. & 6" C.I.P. SAN. SVC. OFF LINDEN RD.
F.F. 751.03
F.F. 751.03
F.F. 751.03



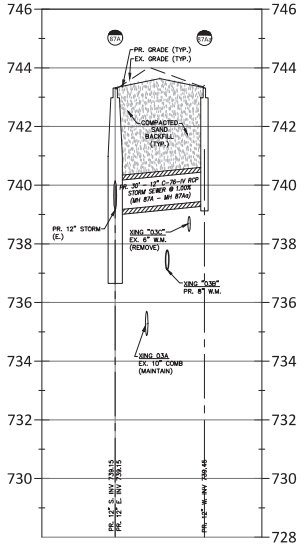
STORM PROFILE 90B-90A (STA. 03+84, SHEET C01)



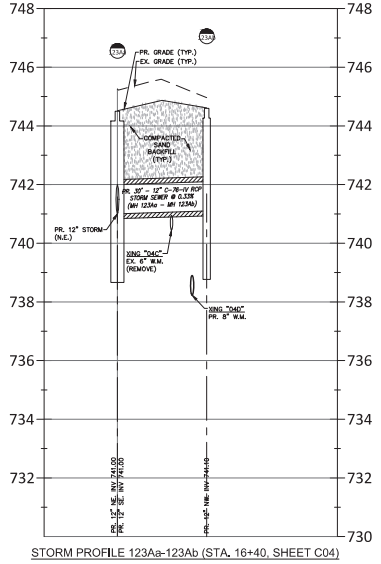
STORM PROFILE 89A-89Aa (STA. 07+25, SHEET C02)



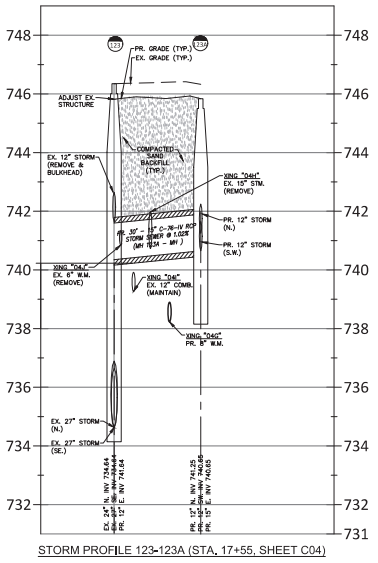
STORM PROFILE 88A-88Aa (STA. 09+70, SHEET C02)



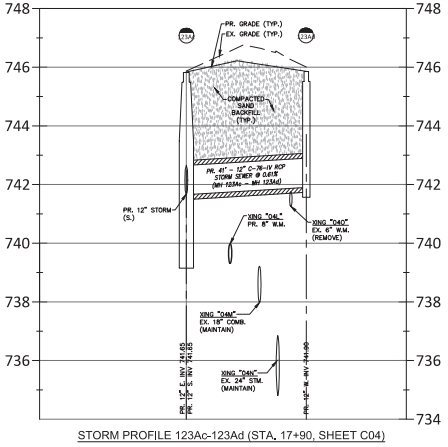
STORM PROFILE 87A-87Aa (STA. 13+18, SHEET C03)



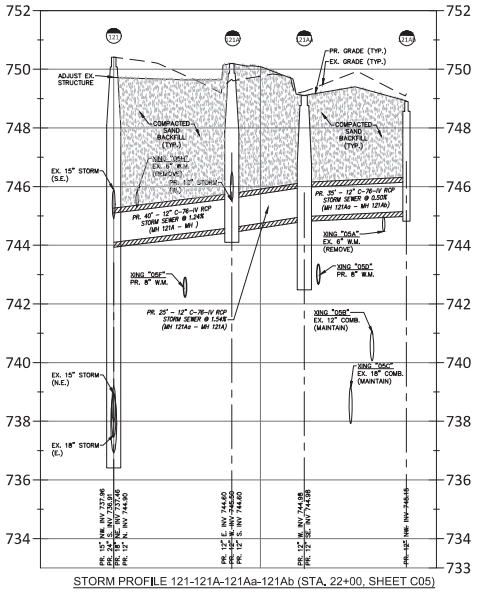
STORM PROFILE 123Aa-123Ab (STA. 16+40, SHEET C04)



STORM PROFILE 123-123A (STA. 17+55, SHEET C04)



STORM PROFILE 123Ac-123Ad (STA. 17+90, SHEET C04)



STORM PROFILE 121-121A-121Aa-121Ab (STA. 22+00, SHEET C05)

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SEAL

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
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151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Storm Sewer Profiles - Arlington Road (1 of 2)

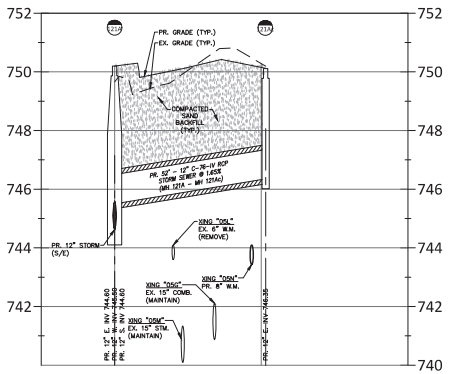
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

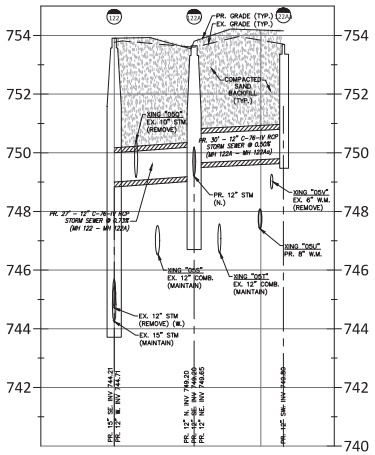
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C19

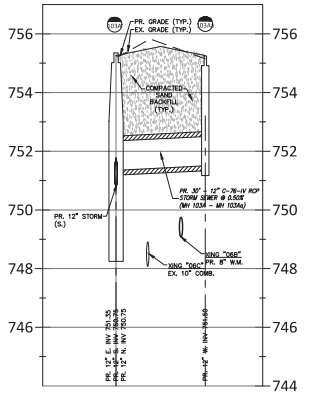
8D



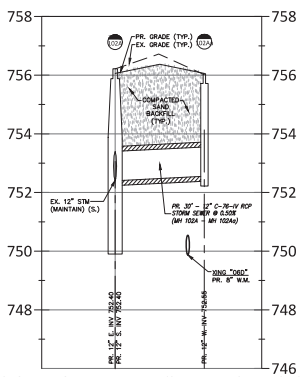
STORM PROFILE 121A-12Ac (STA. 22+19, SHEET C05)



STORM PROFILE 122-122A-122Aa (STA. 24+75, SHEET C05)



STORM PROFILE 103A-103Aa (STA. 27+10, SHEET C06)



STORM PROFILE 102A-102Aa (STA. 29+60, SHEET C06)

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SEAL

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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SHEET
Storm Sewer Profiles - Arlington Road (2 of 2)

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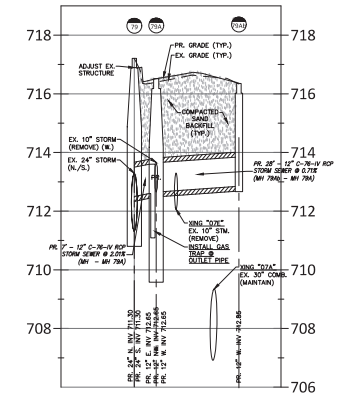
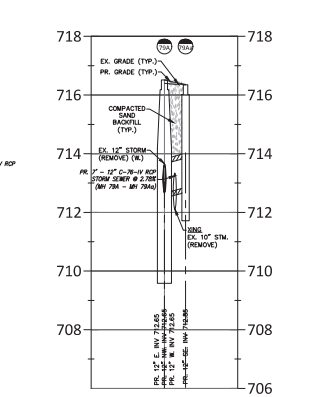
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'
20 10 0 10 20 30

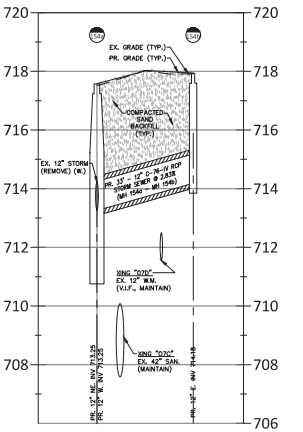
NFE JOB NO. N758
SHEET NO. C20



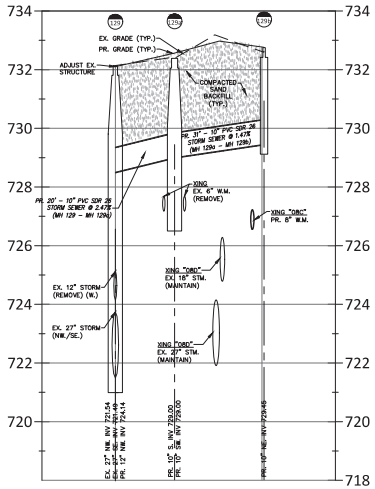
STORM PROFILE 79-79A-79Ab (STA. 01+45, SHEET C07)



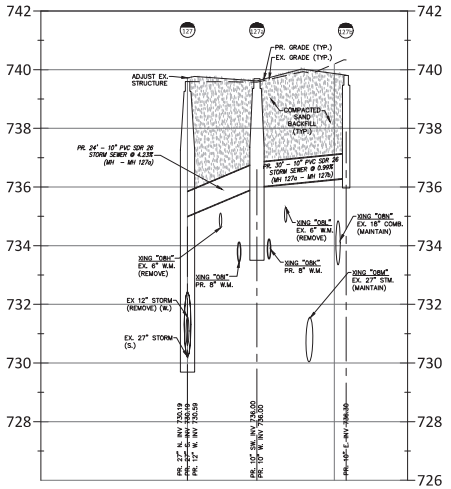
STORM PROFILE 79A-79Aa (STA. 01+45, SHEET C07)



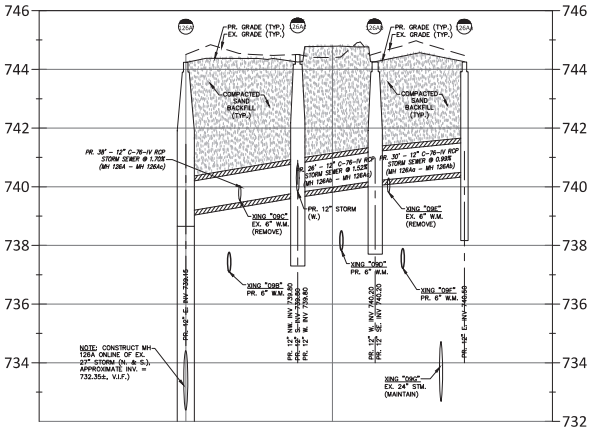
STORM PROFILE 154a-154b (STA. 03+50, SHEET C07)



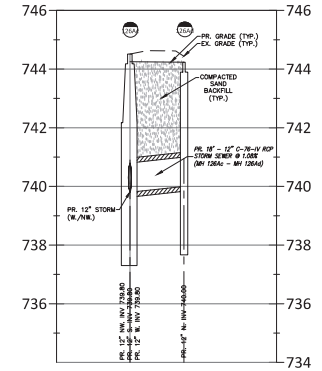
STORM PROFILE 129-129a-129b (STA. 06+60, SHEET C08)



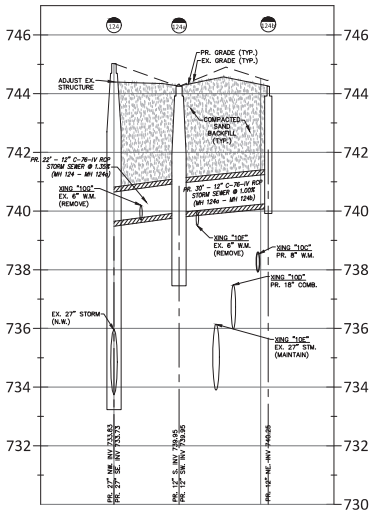
STORM PROFILE 127-127a-127b (STA. 09+00, SHEET C08)



STORM PROFILE 126A-126Ac-126Ab-126Aa (STA. 12+00, SHEET C09)



STORM PROFILE 126Ac-126Ad (STA. 12+00, SHEET C09)



STORM PROFILE 126Ac-126Ad (STA. 15+18, SHEET C10)

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

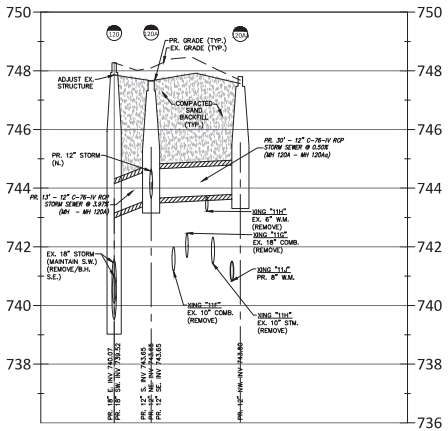
SHEET
Storm Sewer Profiles - Shirley Drive (1 of 2)

811 Know what's below Call before you dig.

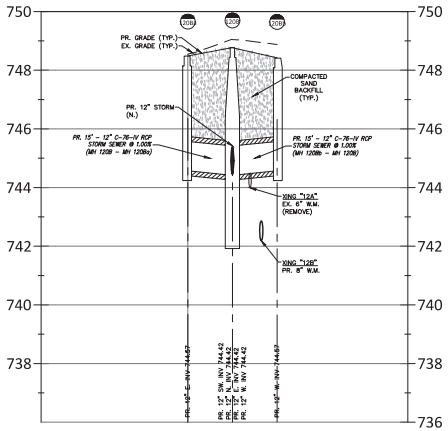
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

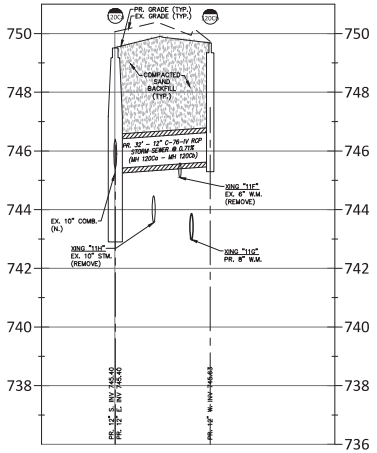
NFE JOB NO. N758
SHEET NO. C21



STORM PROFILE 120-120A-120Aa (STA. 04+20, SHEET C11)



STORM PROFILE 120Ba-120B-120Bb (STA. 05+30, SHEET C12)



STORM PROFILE 120Ca-120Cb (STA. 06+75, SHEET C12)

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PROJECT LOCATION
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SHEET
Storm Sewer Profiles - Shirley Drive (2 of 2)

811 Know what's below Call before you dig.

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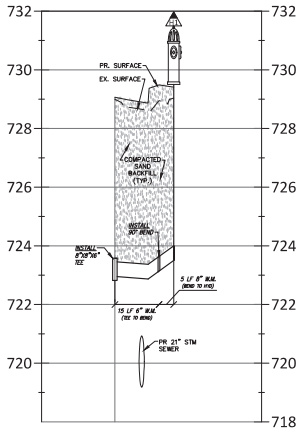
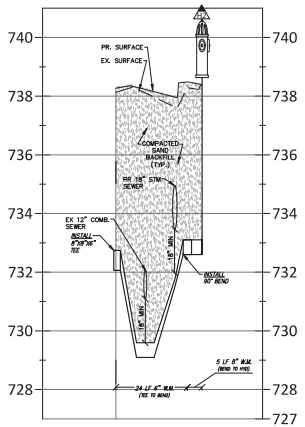
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C22



HYDRANT #1 PROFILE (STA. 4+07, SHEET C01)



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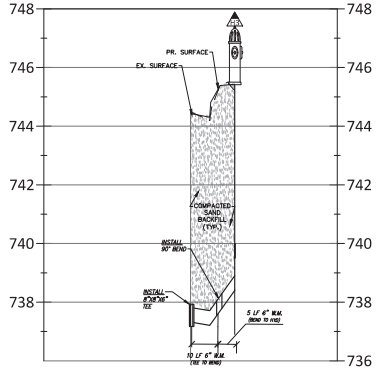

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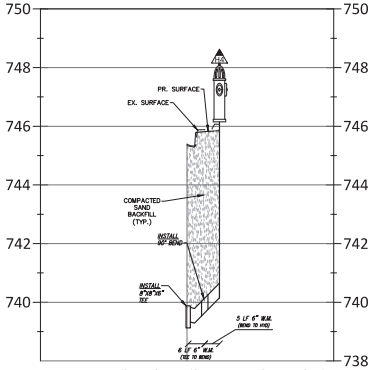
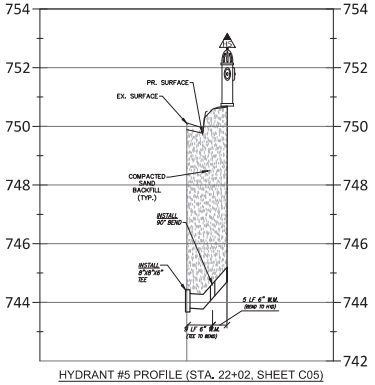
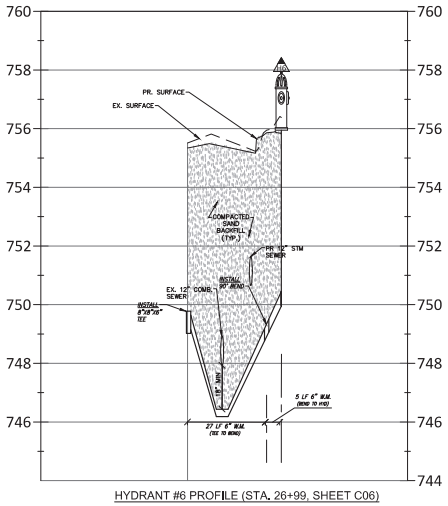


HYDRANT #4 PROFILE (STA. 17+28, SHEET C04)



HYDRANT #5 PROFILE (STA. 22+02, SHEET C05)



HYDRANT #6 PROFILE (STA. 26+99, SHEET C06)

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City of Birmingham
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PROJECT LOCATION
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SHEET
Hydrant Lead Profiles - Arlington Road

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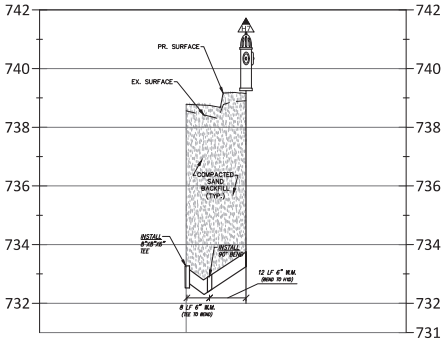
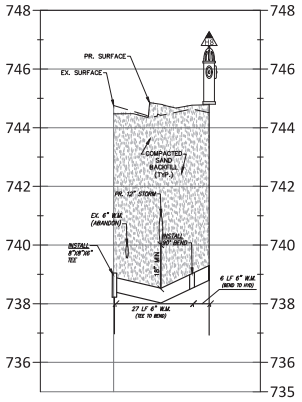
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

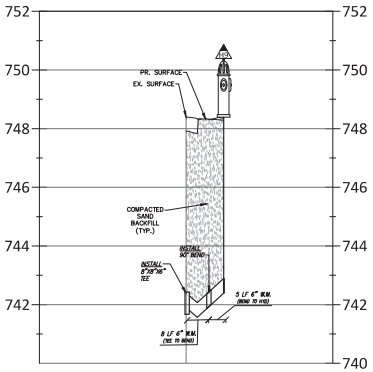
NFE JOB NO. N758
SHEET NO. C23



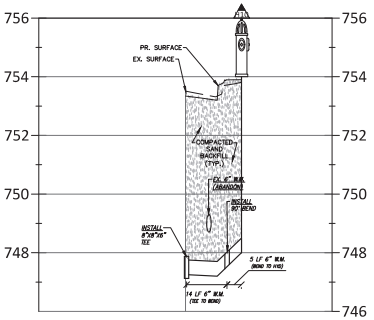
HYDRANT #7 PROFILE (STA. 08+31, SHEET C08)



HYDRANT #8 PROFILE (STA. 13+31, SHEET C09)



HYDRANT #9 PROFILE (STA. 04+54, SHEET C11)



HYDRANT #10 PROFILE (STA. 09+90, SHEET C12)

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City of Birmingham
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Contract#9-24(W)

CLIENT
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Engineering Department
151 Martin Street
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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Hydrant Lead Profiles - Shirley Drive

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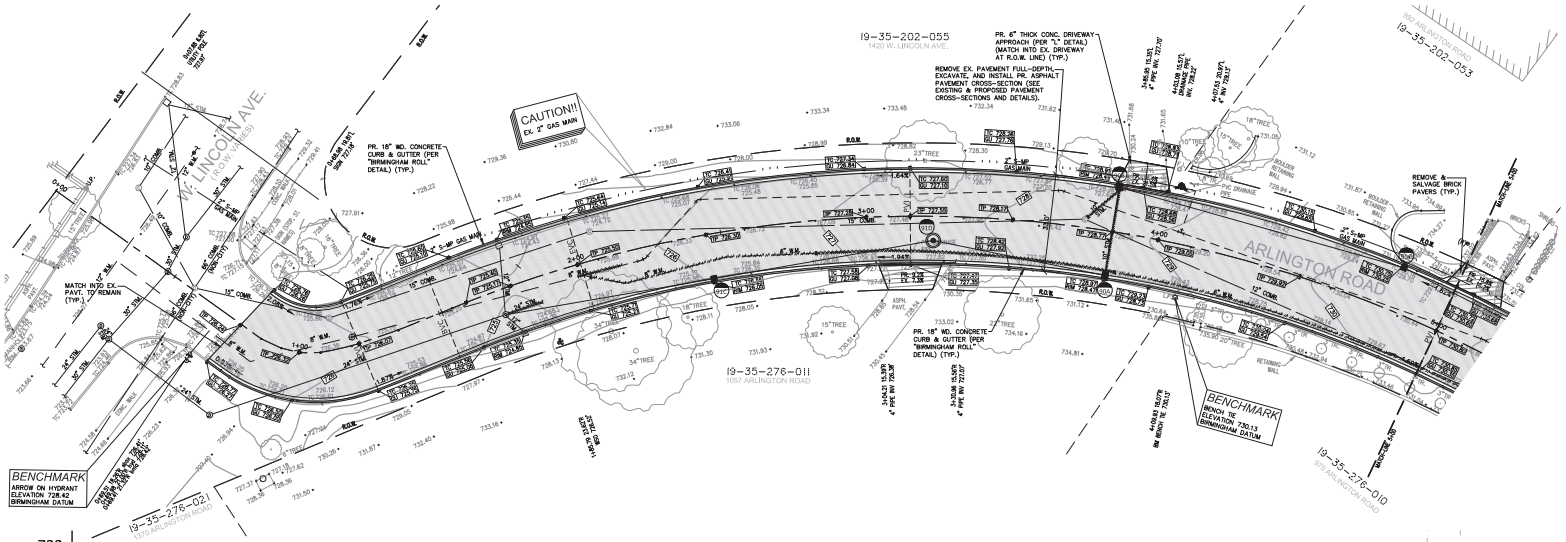
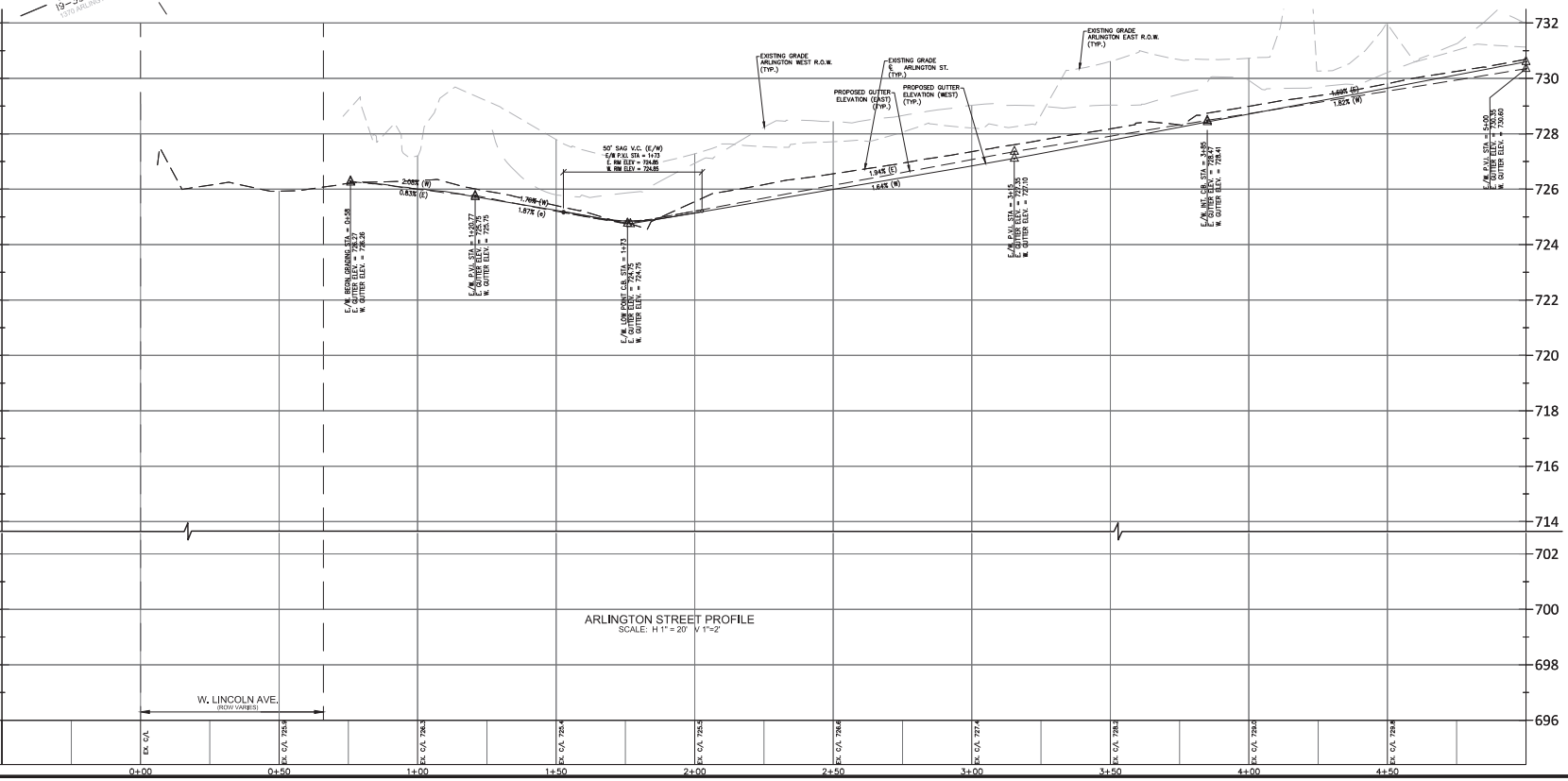
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C24





LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- PR. 4" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FULL-DEPTH ASPH. (4" MIN ON 8" 21AA)
- PR. 18" WD. CONC. CURB & GUTTER

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PROJECT LOCATION
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SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Arlington Road)

811
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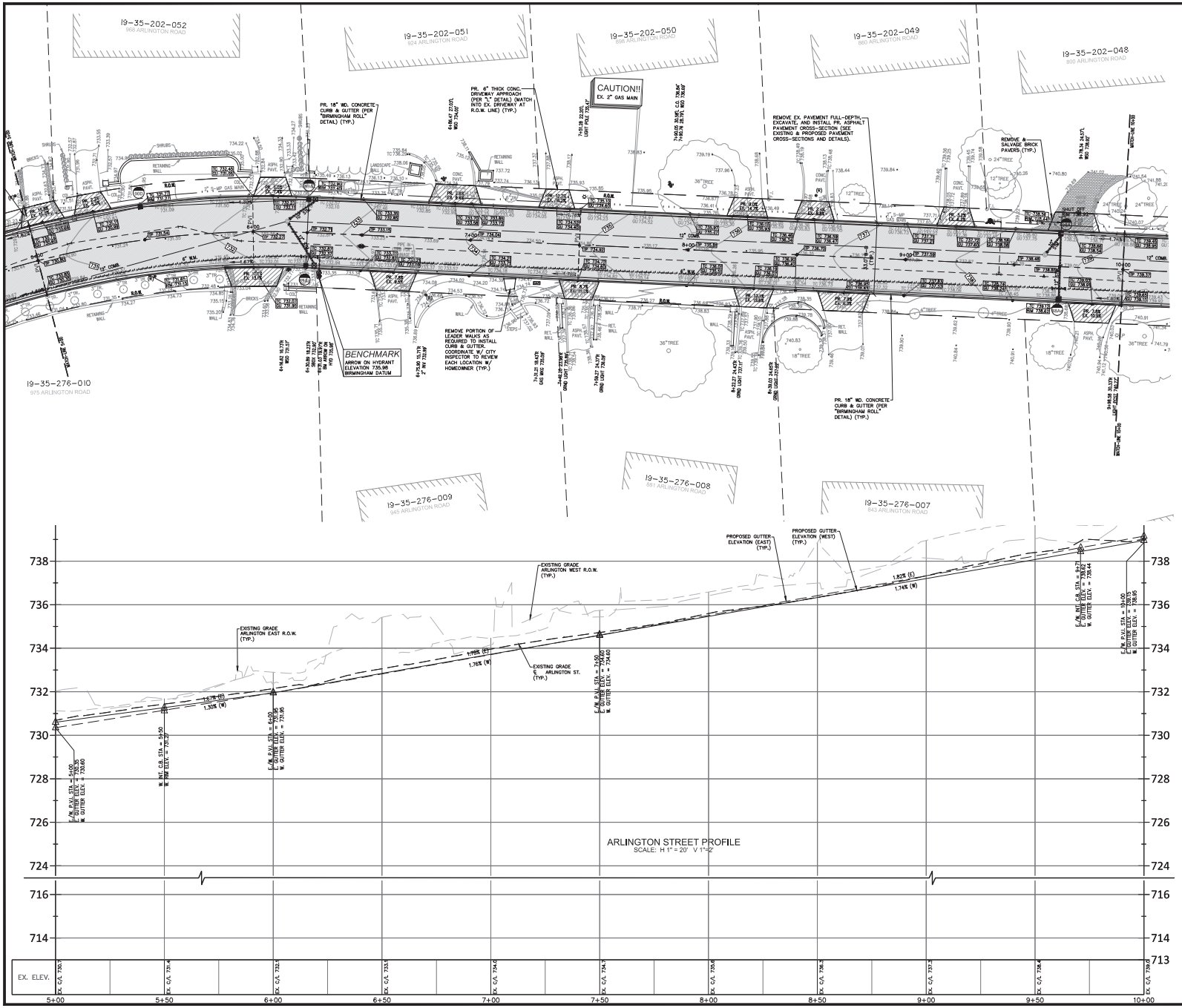
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C25



LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FULL-DEPTH ASPH. (4" HMA ON 6" 21AA)
- PR. 18" WD. CONC. CURB & GUTTER
- EXISTING SAN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CB
- EXISTING END SECTION
- EXISTING WATER HYDRANT
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING GAS MANHOLE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING STREET SIGN
- EXISTING GUY WIRE
- (RECORD) CURB STOP LOCATION (APPROX.)
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PROJECT LOCATION
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SHEET
Paving & Grading Plan Sta 5+00 to 10+00 (Arlington Road)

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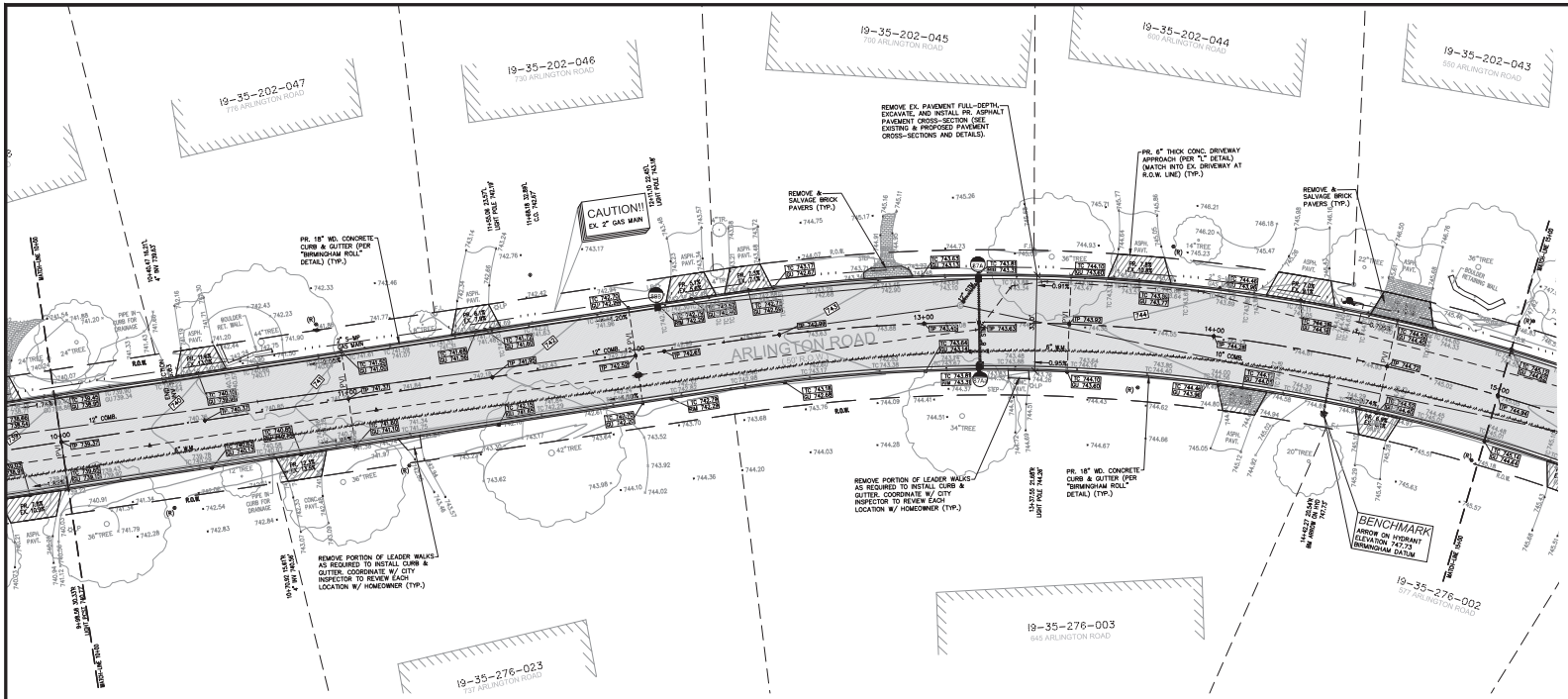
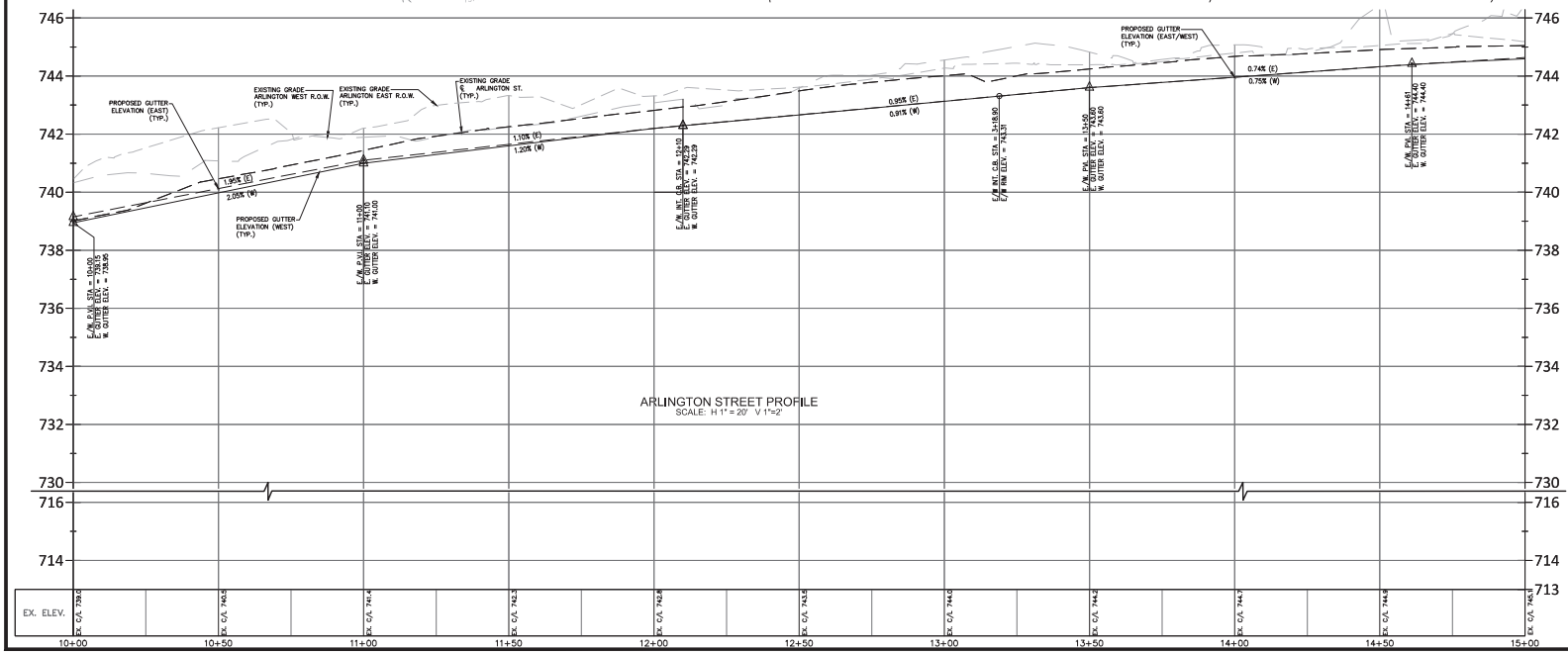
04-19-24	PERMITS
05-02-24	BIDS

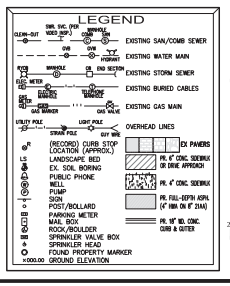
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C26

8D







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Engineering Department
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PROJECT LOCATION
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SHEET
Paving & Grading Plan Sta 10+00 to 15+00 (Arlington Road)

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Know what's below
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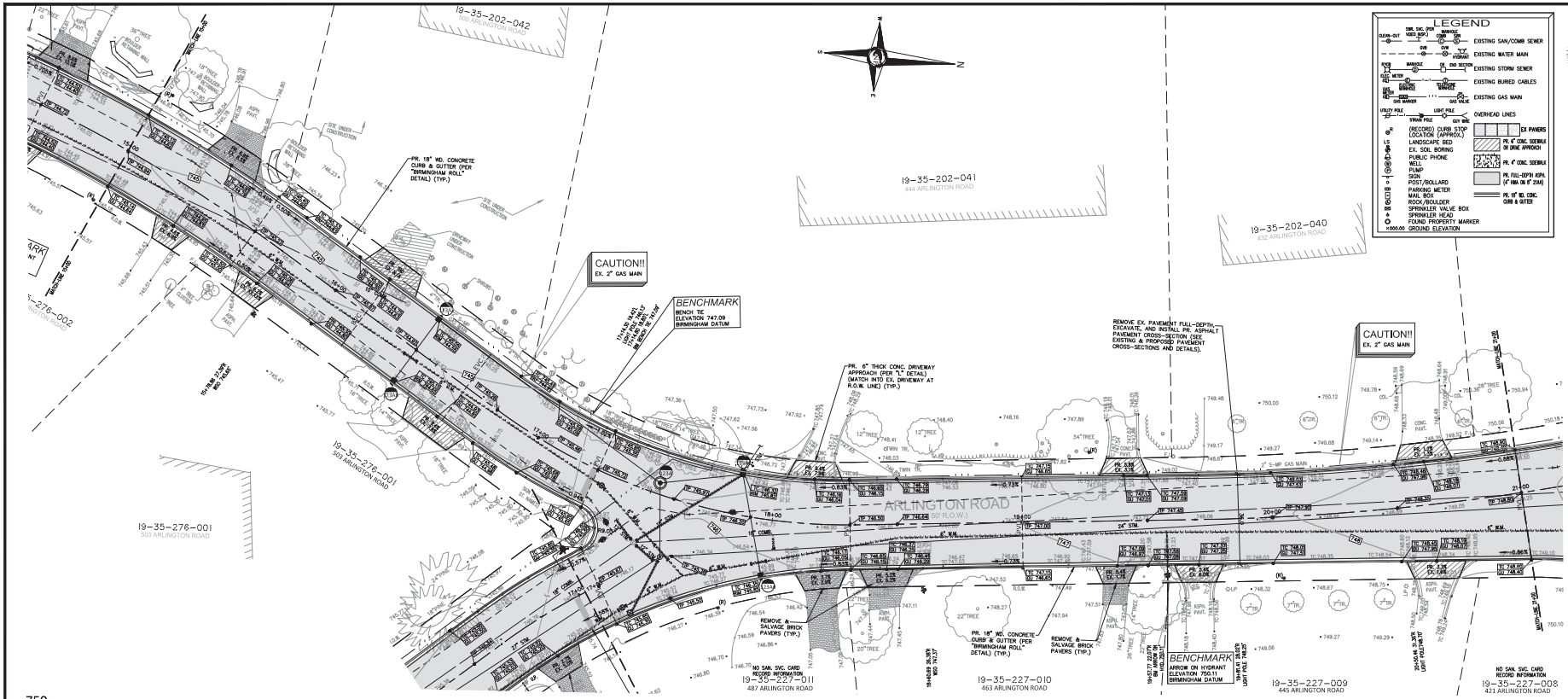
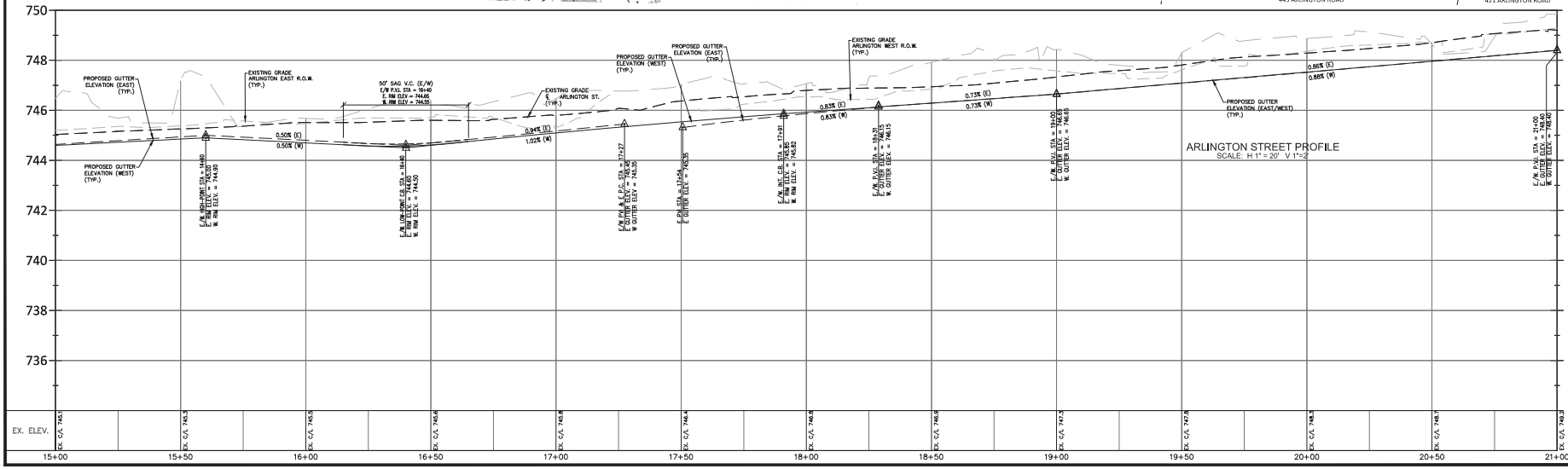
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C27





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Engineering Department
151 Martin Street
Birmingham, MI 48012

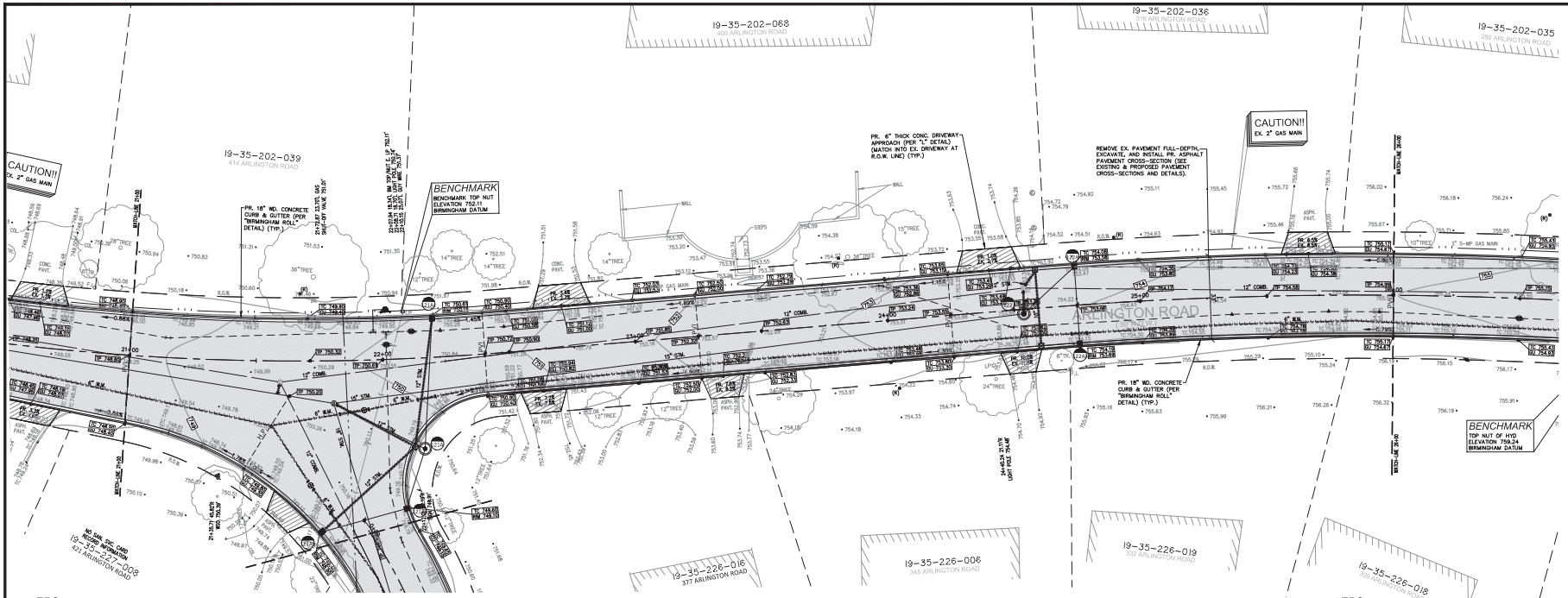
PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

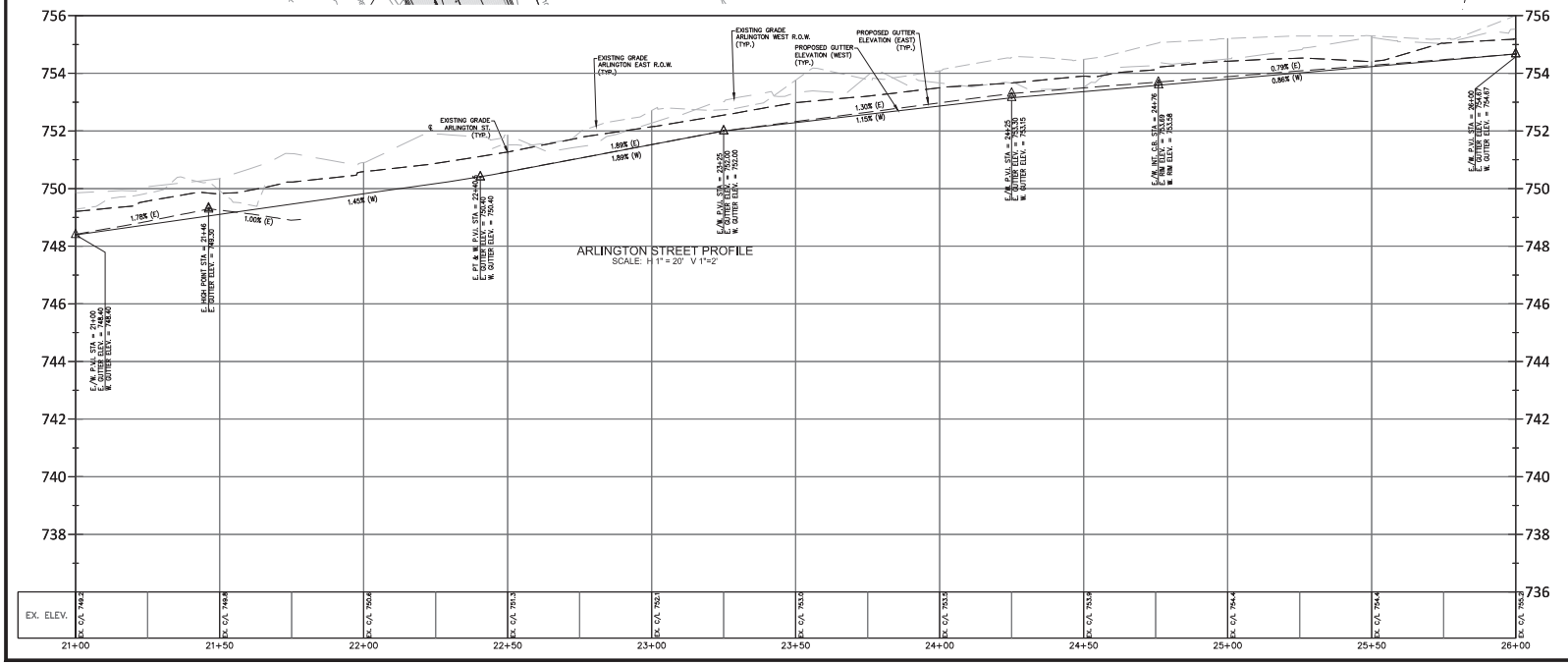
SHEET
Paving & Grading Plan Sta 15+00 to 21+00 (Arlington Road)

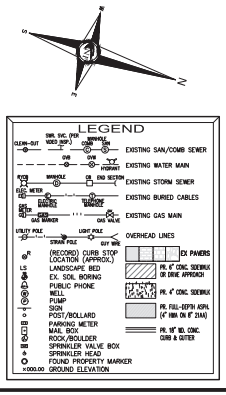
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'
NFE JOB NO. N758
SHEET NO. C28







NF ENGINEERS
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LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

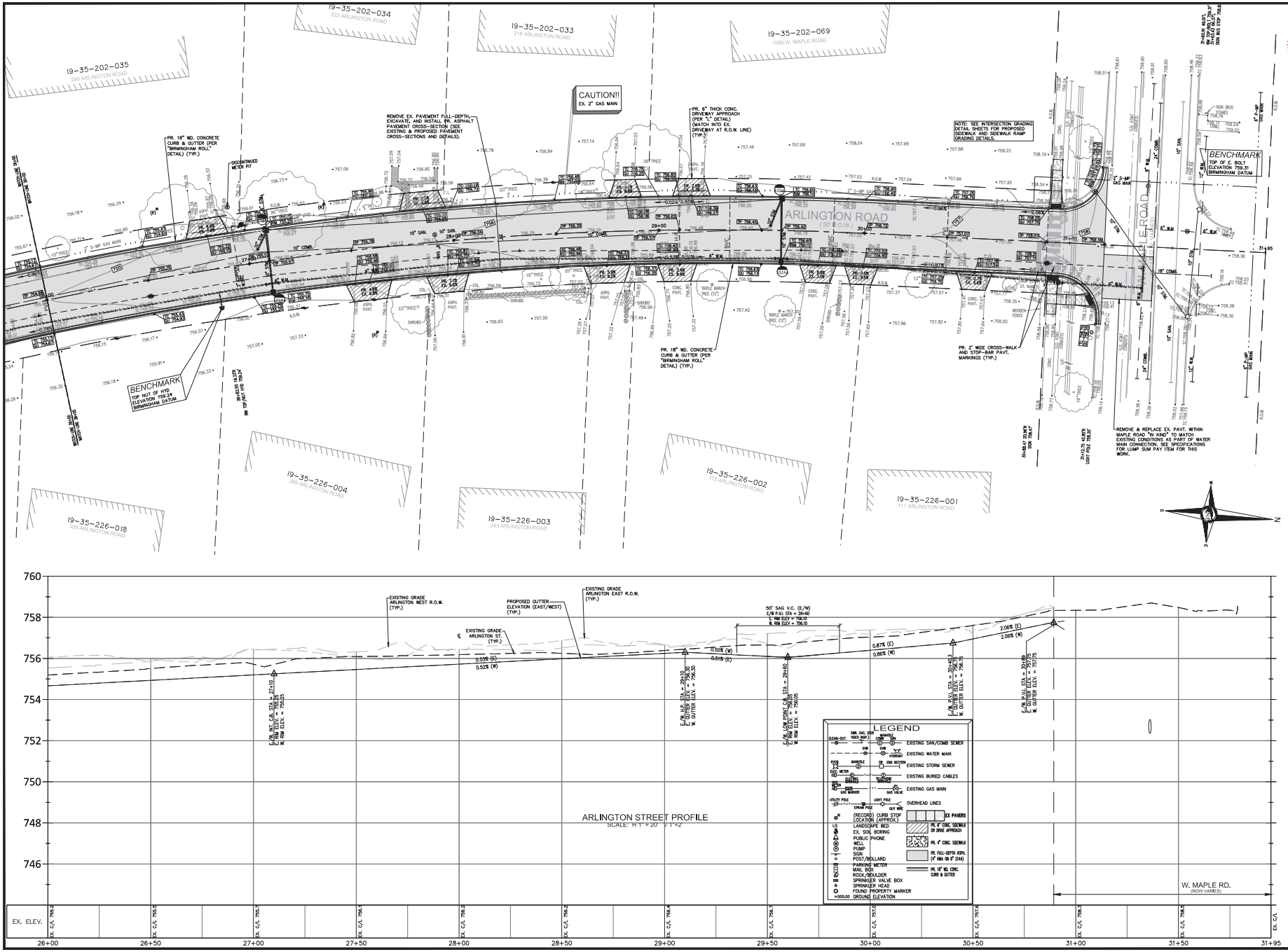
SHEET
Paving & Grading Plan Sta 21+00 to 26+00 (Arlington Road)

Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C29



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PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 26+00 to P.O.E. (Arlington Road)

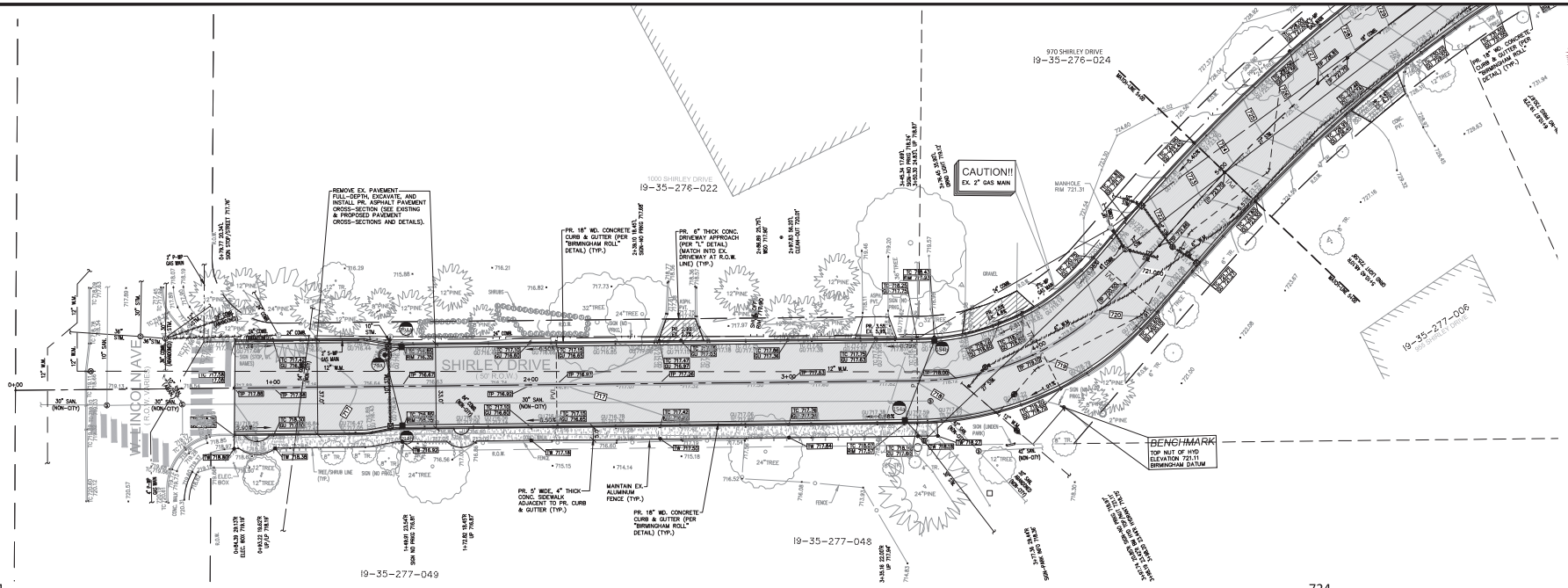
811
Know what's below
Call before you dig.

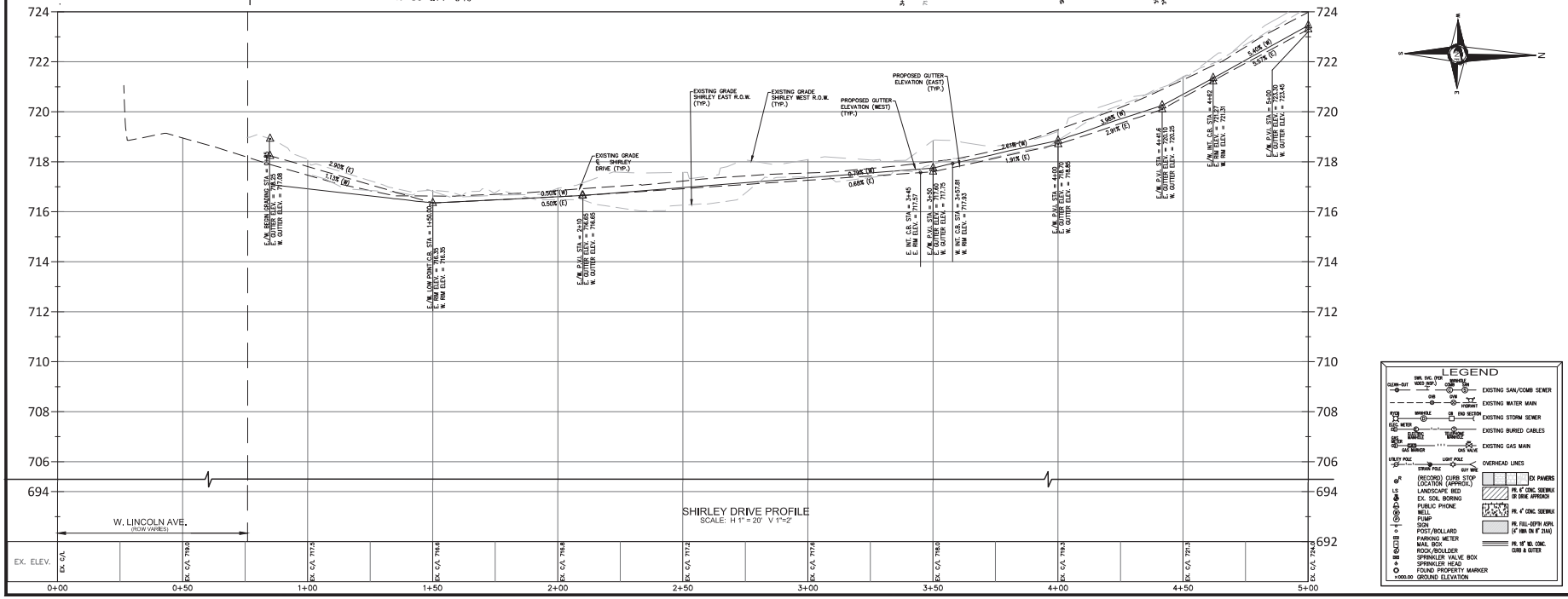
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C30

8D





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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Shirley - South)

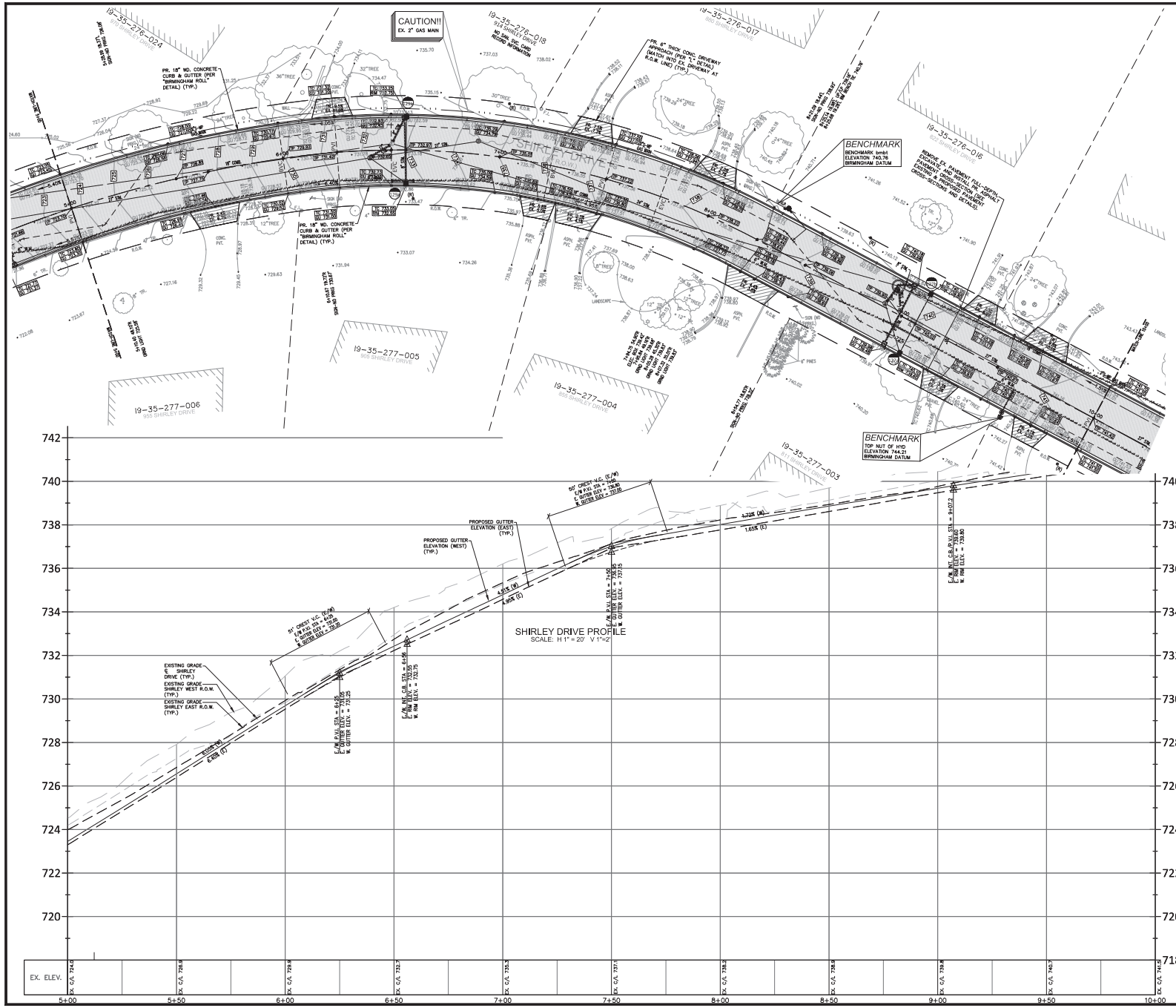
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C31

8D



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PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

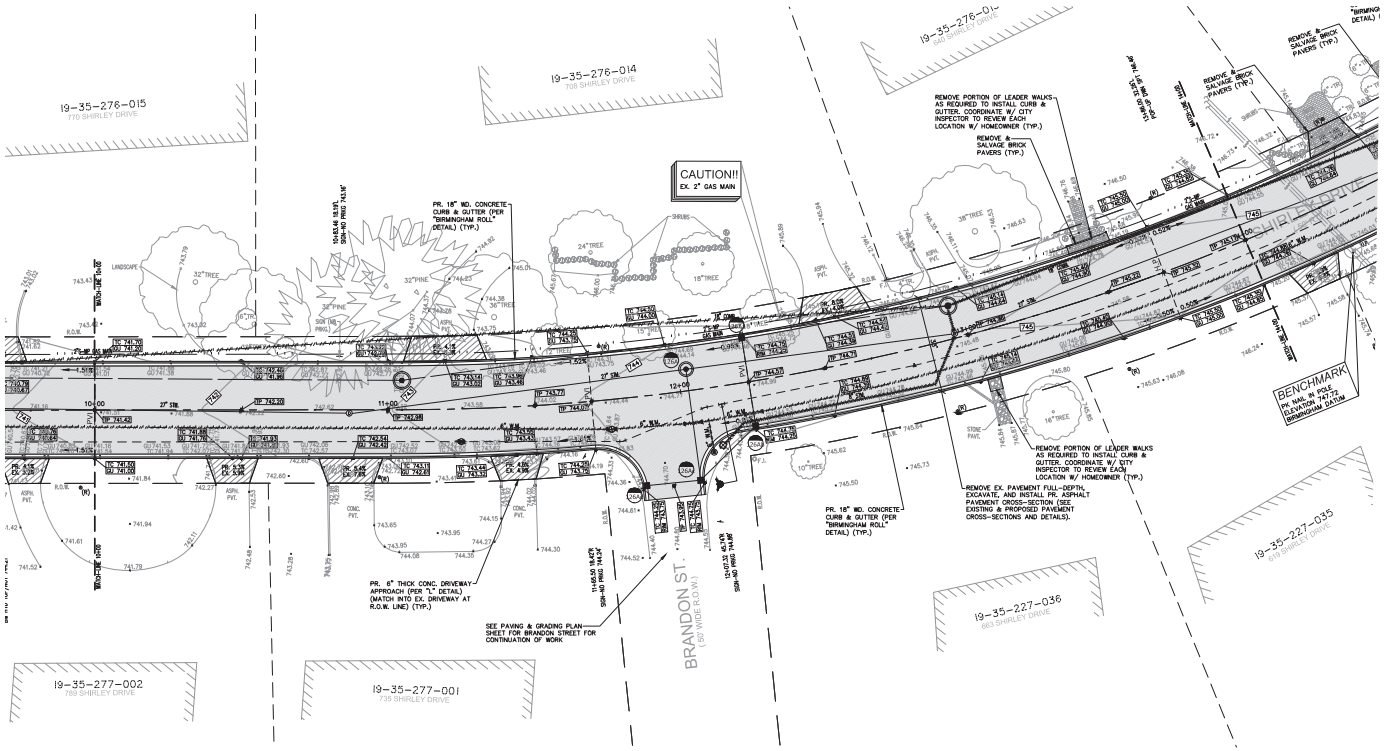
SHEET
Paving & Grading Plan Sta 5+00 to 10+00 (Shirley - South)

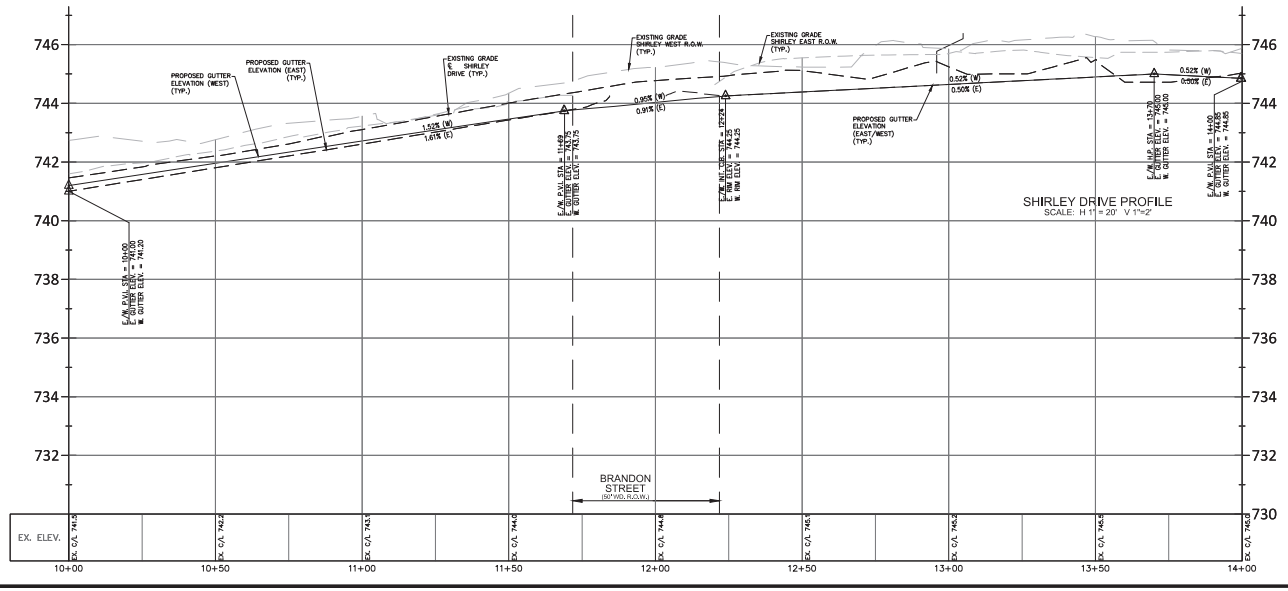
Know what's below Call before you dig.

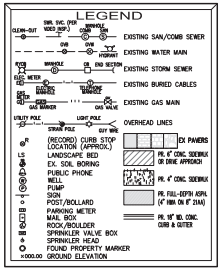
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C32







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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
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A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

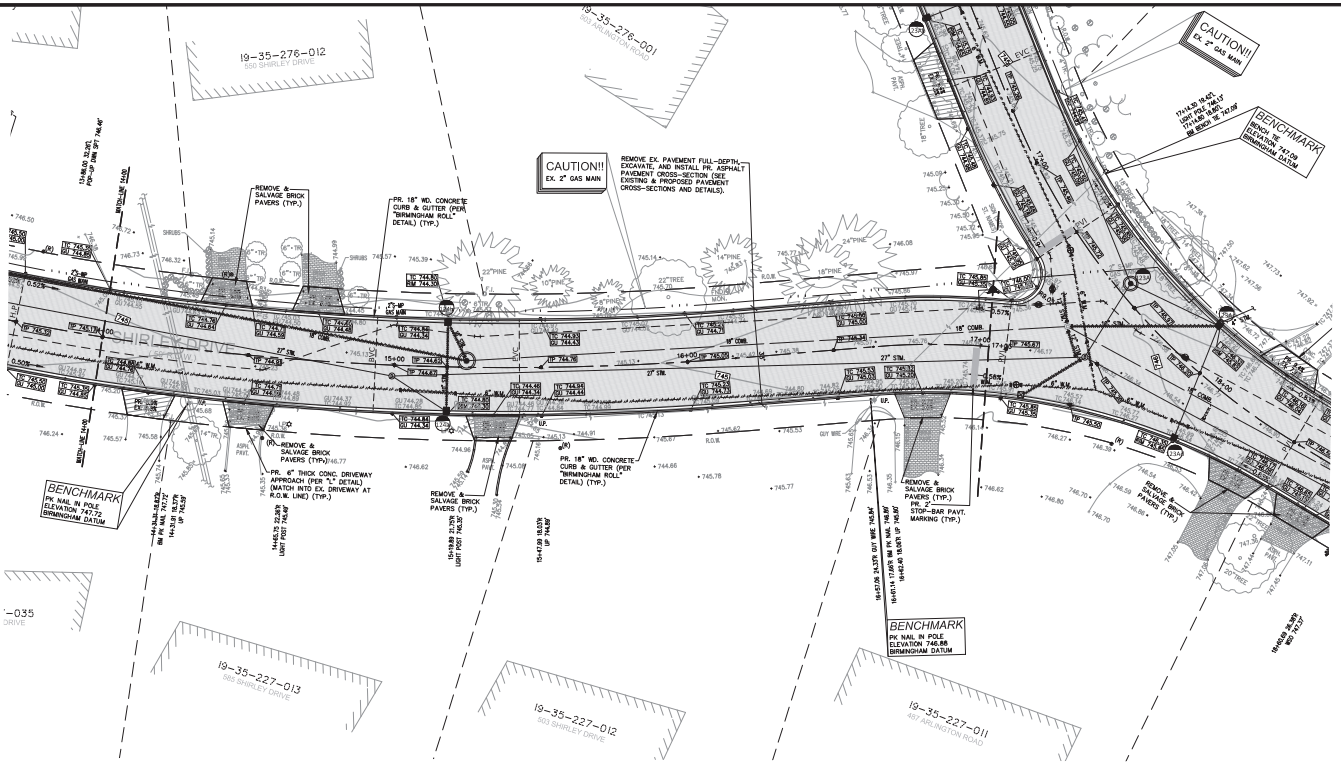
SHEET
Paving & Grading Plan Sta 10+00 to 14+00 (Shirley - South)

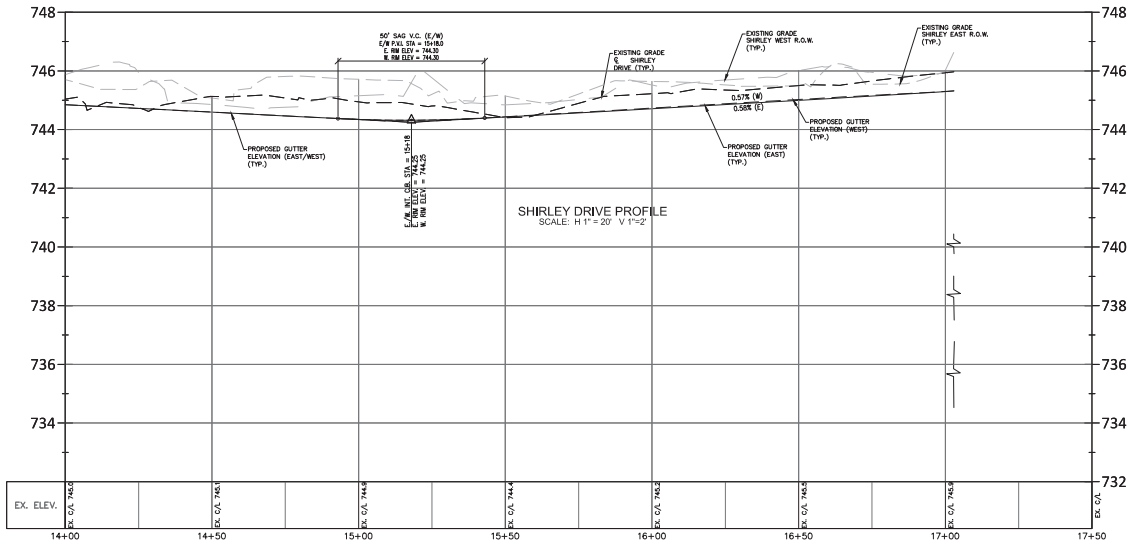
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C33





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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 14+00 to P.O.E. (Shirley - South)

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

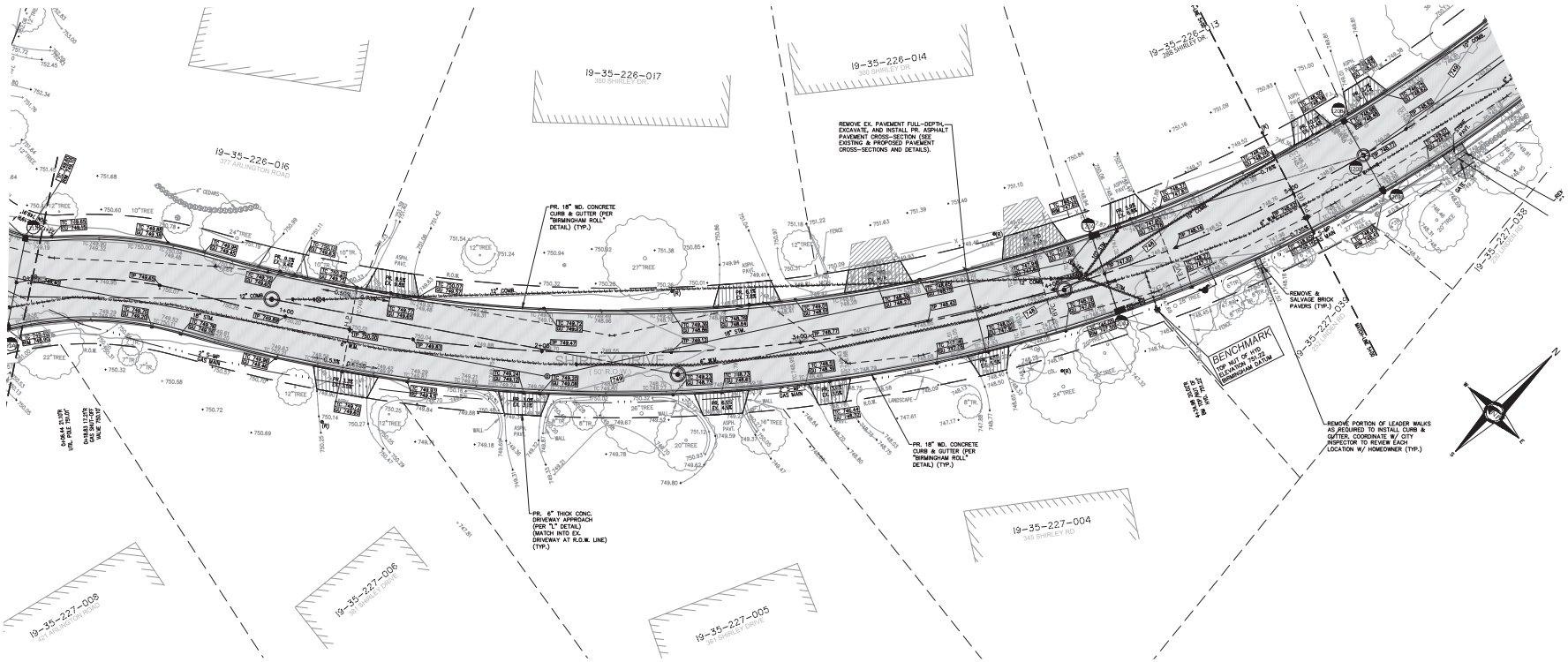
LEGEND

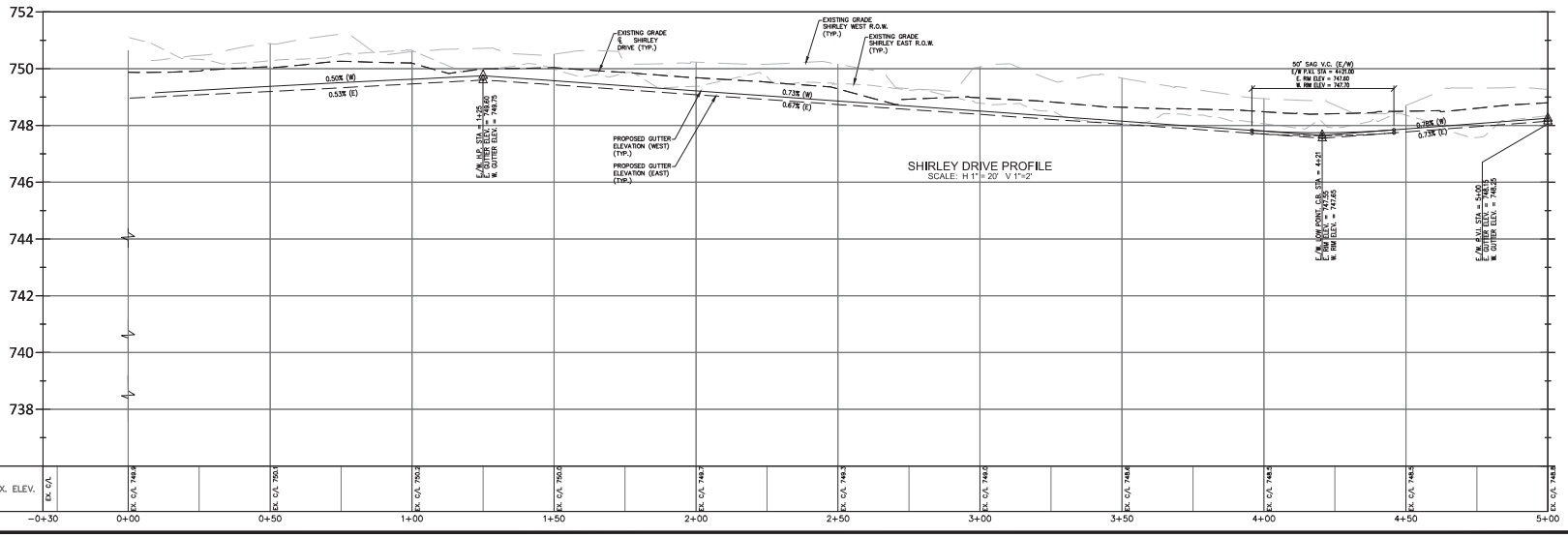
	EXISTING SAN/COMB SEWER
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EXISTING BURIED CABLES
	EXISTING GAS MAIN
	OVERHEAD LINES
	EX PAVERS
	PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
	PR. 4" CONC. SIDEWALK
	PR. FULL-DEPTH ASPH. (4" HMA ON 6" 21AA)
	PR. 18" WD. CONC. CURB & GUTTER

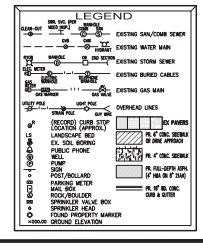
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
x000.00 GROUND ELEVATION

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C34







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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

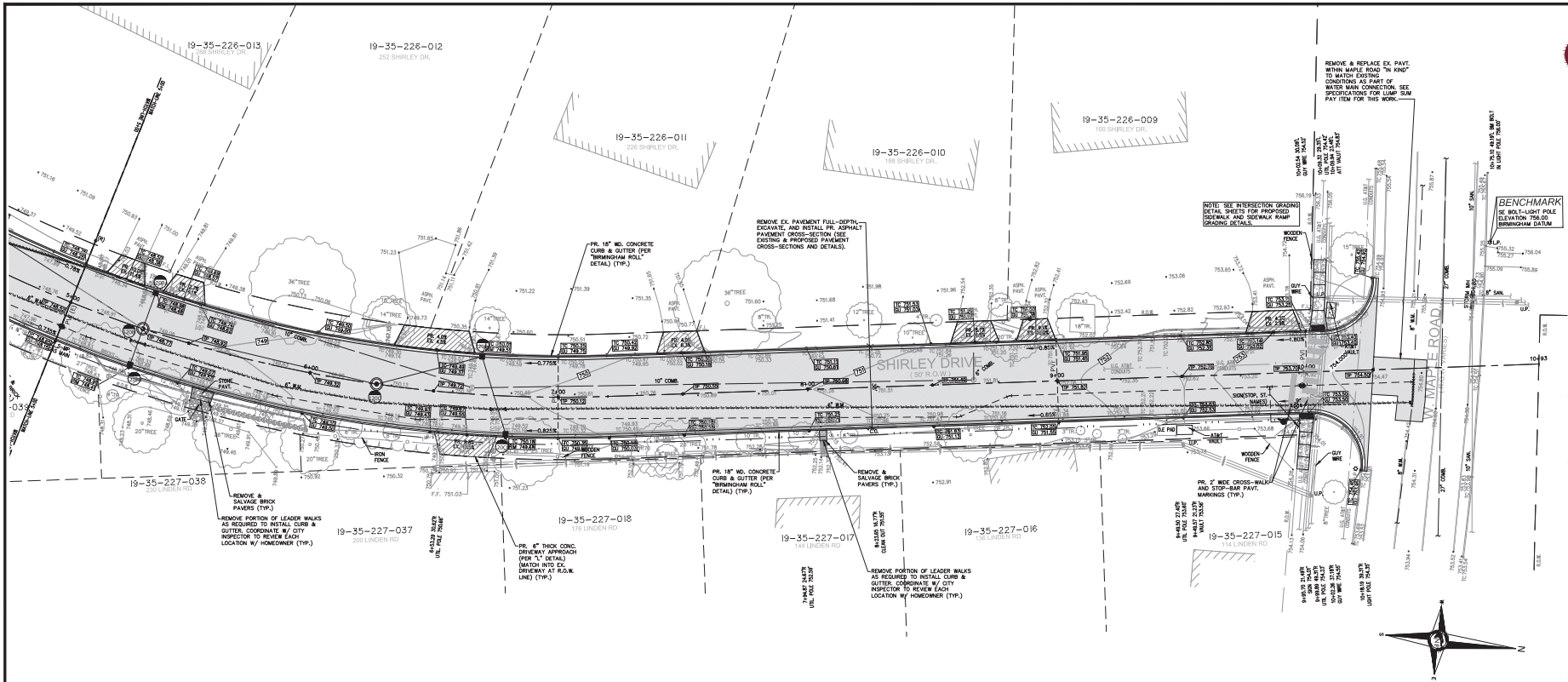
SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Shirley - North)

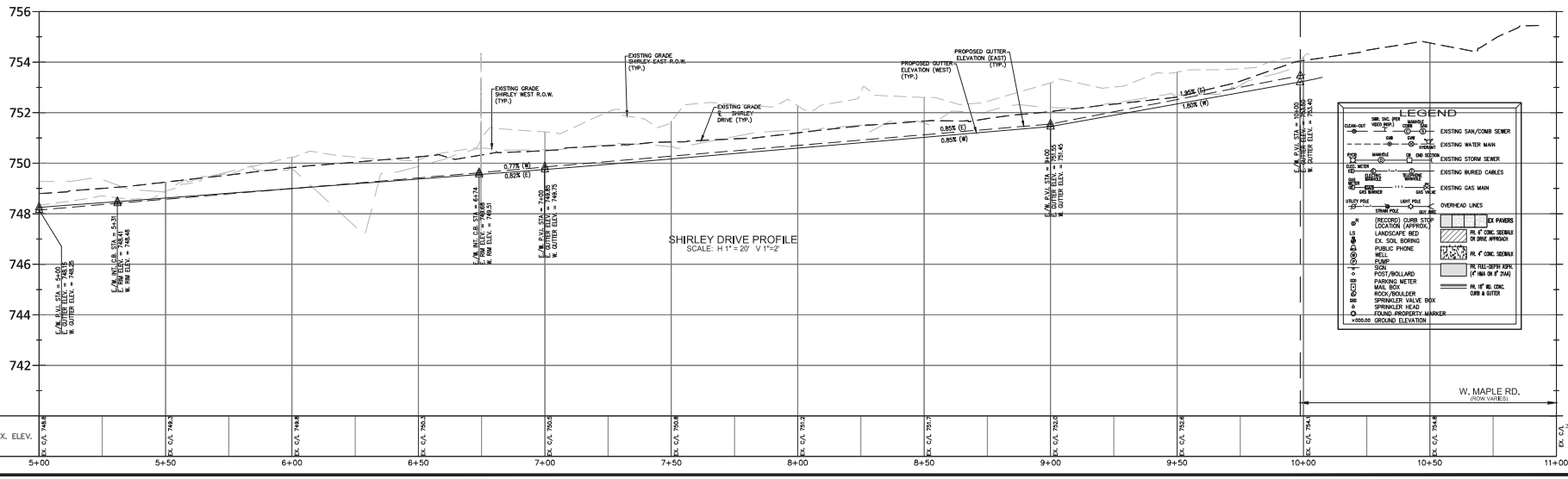
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C35





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SEAL

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
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A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
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SHEET
Paving & Grading Plan Sta 5+00 to P.O.E. (Shirley - North)

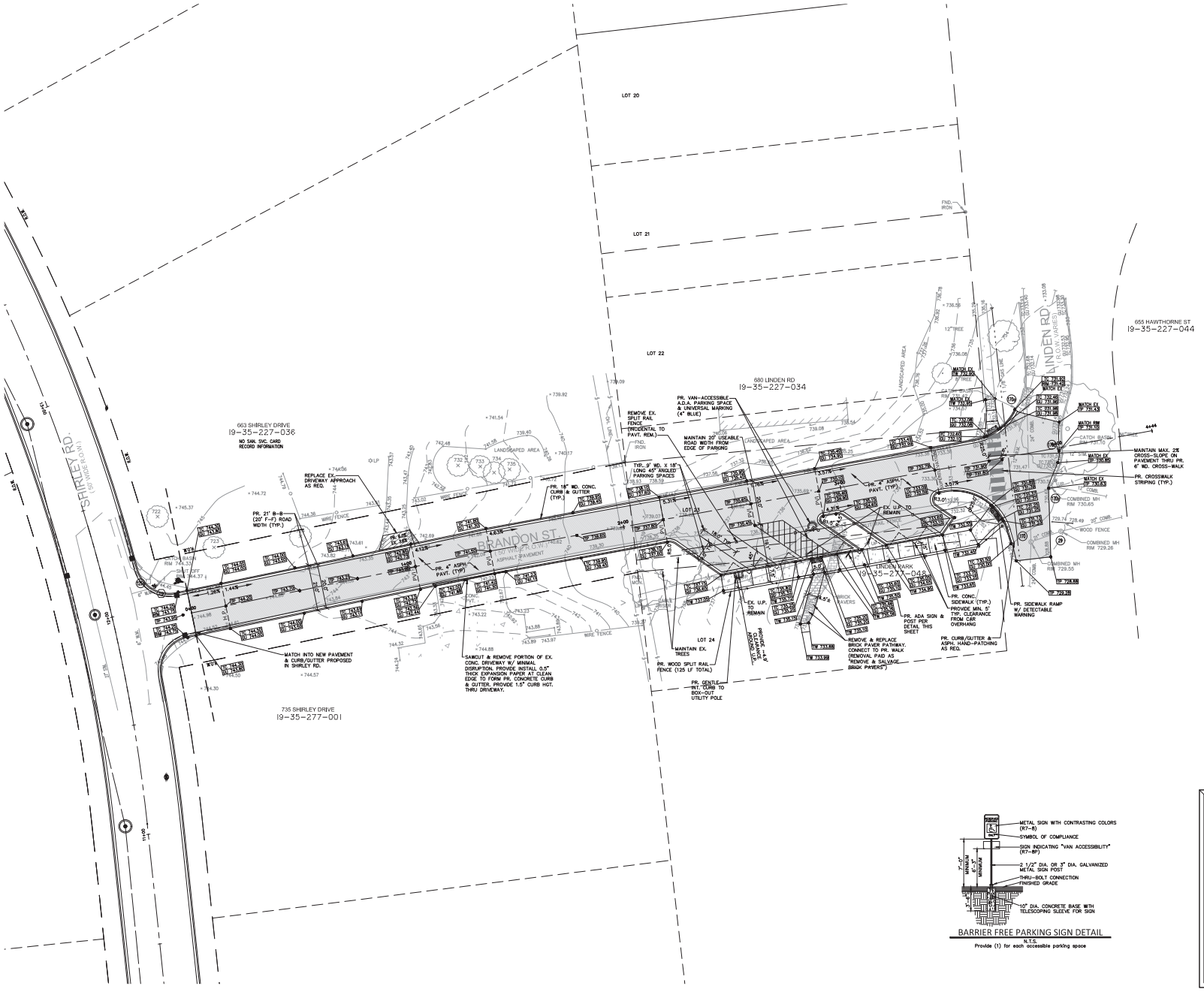
811
Know what's below
Call before you dig.

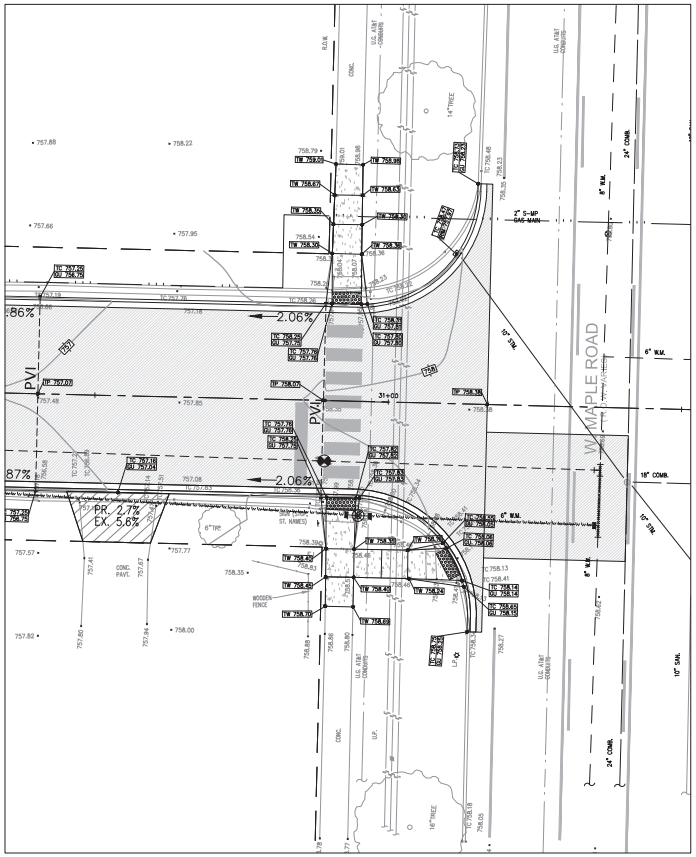
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

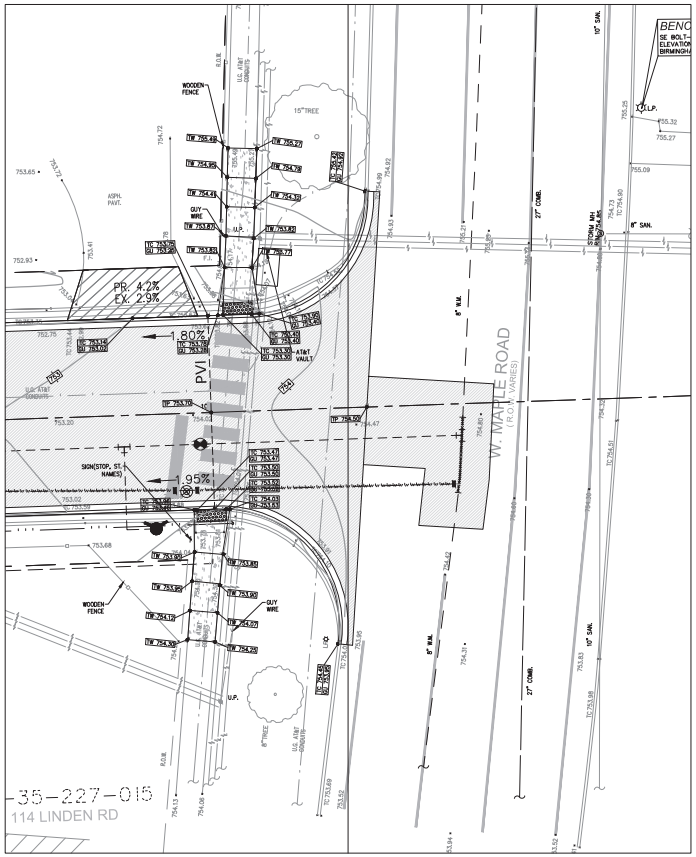
NFE JOB NO. N758
SHEET NO. C36

8D


SHIRLEY RD.
(66' WIDE R.O.W.)
BRANDON ST.
(60' WIDE R.O.W.)
LINDEN RD.
(VARIABLE WIDTH R.O.W.)
LINDEN MARK
19-35-277-048
680 LINDEN RD
19-35-227-034
655 HAWTHORNE ST
19-35-227-044
663 SHIRLEY DRIVE
19-35-227-036
735 SHIRLEY DRIVE
19-35-277-001
LOT 20
LOT 21
LOT 22
LOT 23
LOT 24
REMOVE EX. SPLIT RAIL FENCE INCIDENTAL TO PAVT. REM.
PR. VAN-ACCESSIBLE A.D.A. PARKING SPACE & UNIVERSAL MARKING (4" BLUE)
MAINTAIN 20' USEABLE ROAD WIDTH FROM EDGE OF PARKING
TYP. 9' WD. X 18' LONG 45° ANGLED PARKING SPACES
REPLACE EX. DRIVEWAY APPROACH AS REQ.
PR. 18" WD. CONC. CURB & GUTTER (TYP.)
PR. 21' B-B (20' F-F) ROAD WIDTH (TYP.)
PR. 4" ASPH. PAVT. (TYP.)
EX. U.P. TO REMAIN
MAINTAIN EX. TREES
PR. WOOD SPLIT RAIL FENCE (125 LF TOTAL)
PR. GENTLE INT. CURB TO BOX-OUT UTILITY POLE
PROVIDE 4.5' WIDE ISLAND
PR. CONC. SIDEWALK (TYP.) PROVIDE MIN. 5' TYP. CLEARANCE FROM CAR OVERHANG
PR. ADA SIGN & POST PER DETAIL THIS SHEET
PR. SIDEWALK RAMP W/ DETECTABLE WARNING
PR. CURB/GUTTER & ASPH. HAND-PATCHING AS REQ.
REMOVE & REPLACE BRICK PAVER PATHWAY. CONNECT TO PR. WALK (REMOVAL PAID AS "REMOVE & SALVAGE BRICK PAVERS")
MAINTAIN MAX. 2% CROSS-SLOPE ON PAVEMENT THRU PR. 6" WD. CROSS-WALK
PR. CROSSWALK STRIPING (TYP.)
MATCH INTO NEW PAVEMENT & CURB/GUTTER PROPOSED IN SHIRLEY RD.
SAWCUT & REMOVE PORTION OF EX. CONC. DRIVEWAY W/ MINIMAL DISRUPTION. PROVIDE INSTALL 0.5" THICK EXPANSION PAPER AT CLEAN EDGE TO FORM PR. CONCRETE CURB & GUTTER. PROVIDE 1.5" CURB HGT. THRU DRIVEWAY.
MATCH EX. INV. 730.80
MATCH EX. INV. 731.10
MATCH EX. INV. 730.90
MATCH EX. INV. 731.30
MATCH EX. INV. 730.60
MATCH EX. INV. 731.00
MATCH EX. INV. 730.40
MATCH EX. INV. 730.80
MATCH EX. INV. 730.20
MATCH EX. INV. 730.60
MATCH EX. INV. 730.00
MATCH EX. INV. 730.40
MATCH EX. INV. 729.80
MATCH EX. INV. 730.20
MATCH EX. INV.



CROSSING AT ARLINGTON ROAD AND W. MAPLE ROAD.



CROSSING AT SHIRLEY DRIVE AND W. MAPLE ROAD.

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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PROJECT LOCATION
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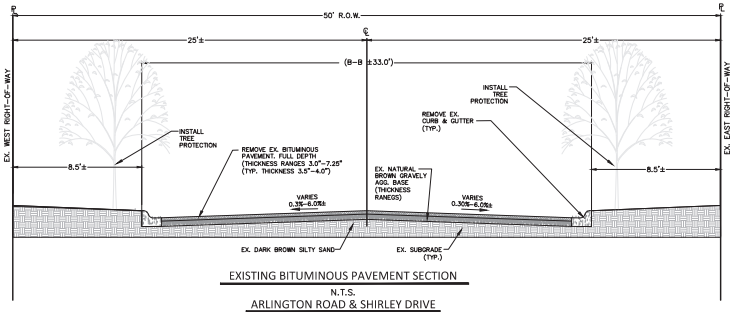
SHEET
Intersection Grading Details

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 10'

NFE JOB NO. N758
SHEET NO. C38



EXISTING BITUMINOUS PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD & SHIRLEY DRIVE

APPLIES TO:

ARLINGTON ROAD:

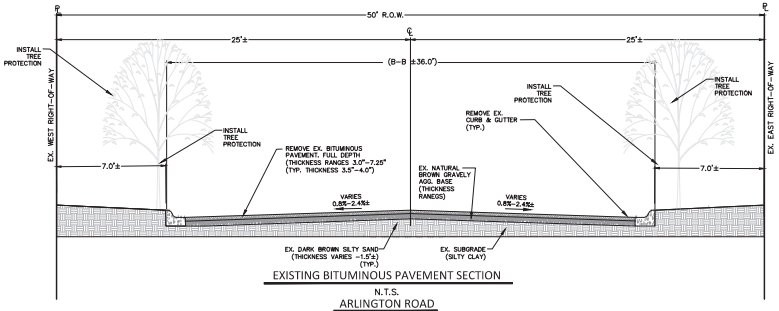
- STA. P.O.B. TO 16+78 & 22+52 TO 30+94
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN 16+78 TO 18+31, 19+75 TO 22+52, AND 30+00 TO P.O.E.

SHIRLEY DRIVE (SOUTH):

- STA. 1+49 TO P.O.E.
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA. P.O.B. TO 1+49.

SHIRLEY DRIVE (NORTH):

- STA. P.O.B. TO 9+33
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA 9+33 TO P.O.E.



EXISTING BITUMINOUS PAVEMENT SECTION

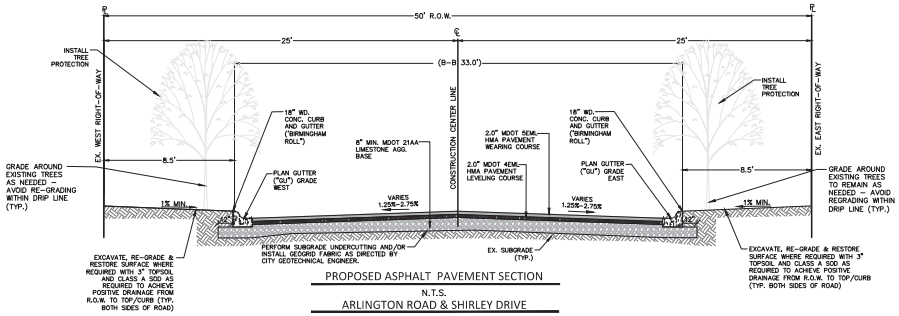
N.T.S.

ARLINGTON ROAD

APPLIES TO ARLINGTON ROAD:

- STA. 18+31 TO 19+75

NOTE: REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY G2 CONSULTING GROUP (DATED 3/9/24) FOR DETAILED EXISTING PAVEMENT AND SOILS INFORMATION.



PROPOSED ASPHALT PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD & SHIRLEY DRIVE

APPLIES TO:

ARLINGTON ROAD:

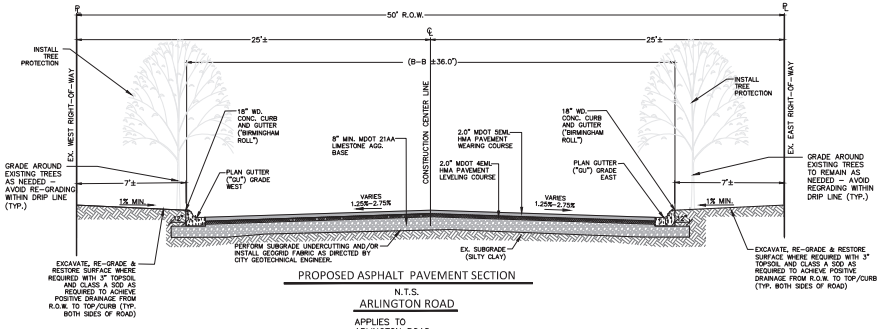
- STA. P.O.B. TO 16+78 & 22+52 TO 30+95
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN: 16+78 TO 22+52 AND 30+95 TO P.O.E.

SHIRLEY DRIVE (SOUTH):

- STA. 1+49 TO P.O.E.
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA. P.O.B. TO 1+49.

SHIRLEY DRIVE (NORTH):

- STA. P.O.B. TO 10+00
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA 10+00 TO P.O.E.



PROPOSED ASPHALT PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD

APPLIES TO ARLINGTON ROAD:

- STA. 18+31 TO 19+75

NF ENGINEERS

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SEAL

PROJECT

City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT

BIRMINGHAM
A WALKABLE CITY

Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION

Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET

Exisiting and Proposed Road Cross-Sections

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski

DESIGNED BY: P. Tulikangas

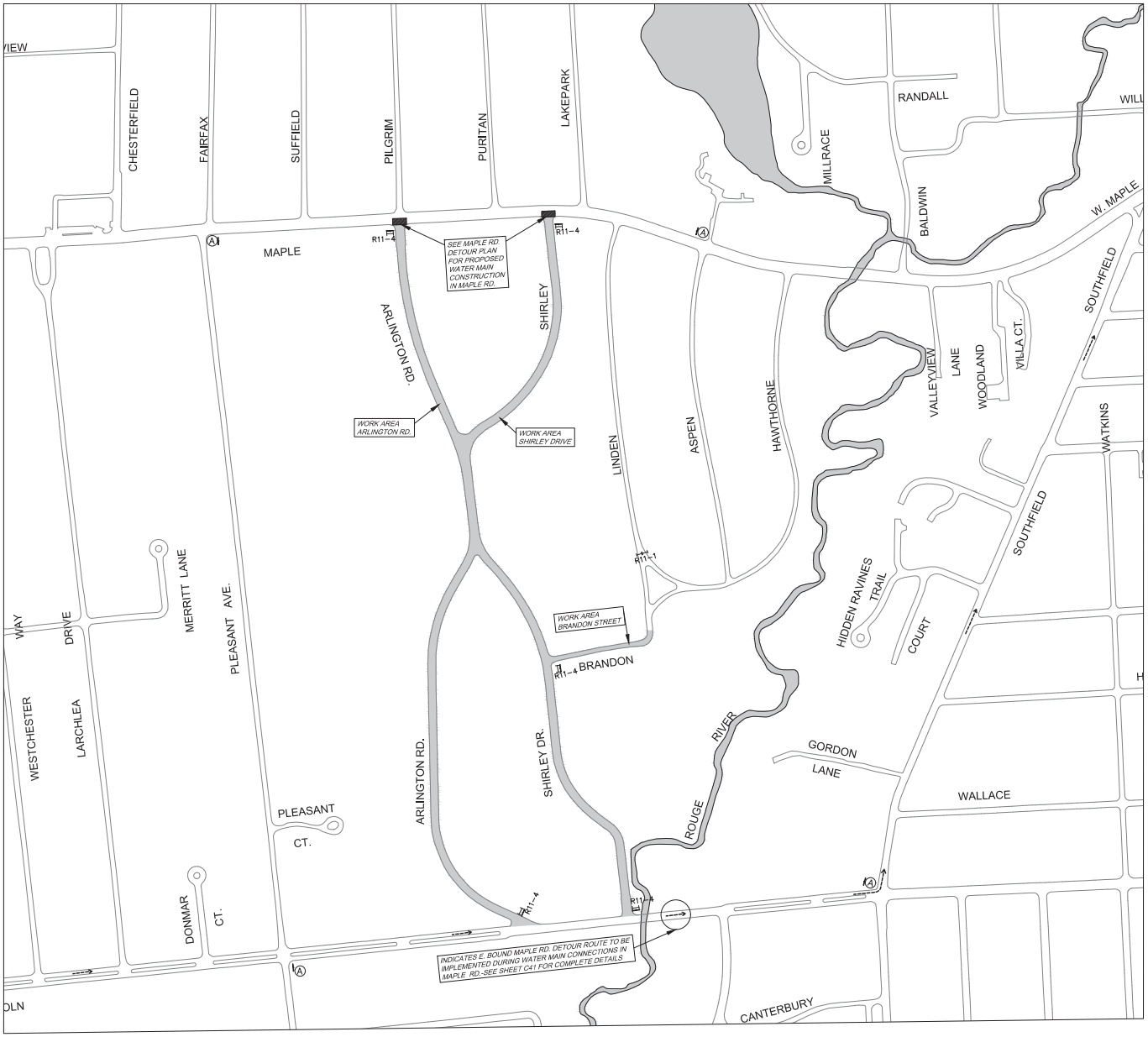
APPROVED BY: B. Buchholz

DATE: February 8, 2024

SCALE: N.T.S.

NFE JOB NO. N758

SHEET NO. C39



ADVANCED WARNING SIGNAGE PLAN: ARLINGTON ROAD & SHIRLEY DRIVE

ARLINGTON RD. AND SHIRLEY DR. CLOSED TO THRU TRAFFIC SEEK ALT. ROUTE

36"x72" ADVANCE WARNING SIGN "A"
BLACK LEGEND ON ORANGE BACKGROUND

SYMBOL KEY

- TYPE III BARRICADES
- ADVANCED WARNING SIGN
- DETOUR

SPECIAL ADVANCED WARNING SIGN QUANTITIES

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
SIGN "A"	ARLINGTON RD. AND SHIRLEY DR. CLOSED TO THRU TRAFFIC SEEK ALT ROUTE	36"x72"	4

OTHER ADVANCED WARNING SIGN QUANTITIES AS SHOWN

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
R11-2	ROAD CLOSED	60"x30"	T.B.D.
R11-4	ROAD CLOSED FOR THRU TRAFFIC	60"x30"	T.B.D.

NOTES

1. PLACE TRAFFIC CONTROL DEVICES AS SPECIFIED, OR AS OTHERWISE DIRECTED BY THE CITY OF BIRMINGHAM, INCLUDING ADVANCE WARNING SIGNS AND BARRICADES NOT SPECIFIED ON THIS DIAGRAM. CONTRACTOR/INSPECTOR MUST ACCOMPANY SIGN SUBCONTRACTOR DURING PLACEMENT OF SIGNS THROUGHOUT VARIOUS TRAFFIC CONTROL CHANGES.
2. ALL SIGNS AND BARRICADING SHALL BE IN ACCORDANCE WITH CURRENT M.M.U.T.C.D. AND M.D.O.T. SPECIFICATIONS AND TRAFFIC TYPICALS, INCLUDING PLACEMENT OF ADDITIONAL REQUIRED SIGNS/BARRICADES NOT DEPICTED ON THESE PLANS TO CONTROL TRAFFIC, LANE SHIFTS, ETC.
3. ADVANCE WARNING SIGNS AND BARRICADES SHALL REMAIN IN PLACE UNTIL THE NEW ROAD (OR A PORTION THEREOF) IS READY TO BE OPENED FOR TRAFFIC AS DETERMINED BY THE CITY.
4. MAINTAIN SIDEWALKS AND INSTALL & MAINTAIN FENCING & SIGNAGE AS NEEDED TO ENSURE PEDESTRIAN SAFETY. UTILIZE MAINTENANCE AGGREGATE AS REQUIRED.
5. ERECT, REMOVE, AND/OR MAINTAIN ALL ADVANCE WARNING/DETOUR SIGNAGE AS DIRECTED BY THE CITY.
6. TYPE III BARRICADES (LIGHTED) SHALL BE PLACED FOR ALL LANE CLOSURES, AND SHALL INCLUDE A R11-2 OR R11-4 SIGN ON EACH TYPE III BARRICADE WHERE NOTED.
7. ALL SIDEWALK CLOSURES WITHIN CITY LIMITS SHALL HAVE TYPE III BARRICADES AND INCLUDE A SIDEWALK CLOSED SIGN. IF SIDEWALK CLOSURES ARE REQUIRED WITHIN M.D.O.T. RIGHT-OF WAY ON WOODWARD AVENUE (M-1), TYPE II BARRICADES SHALL BE USED.
8. LOCAL RESIDENT TRAFFIC (TWO-WAY) SHALL TYPICALLY BE MAINTAINED DURING CONSTRUCTION.
9. CONTRACTOR SHALL PROVIDE ADDITIONAL ADVANCED WARNING SIGNAGE TO INDICATE WHEN FULL-WIDTH CLOSURES WILL BE REQUIRED IN ISOLATED WORK AREAS. PROVIDE ADDITIONAL TYPE III BARRICADES/R11-2/R11-4 SIGNS AT MAPLE, LINCOLN & MIDDLE PORTION OF ARLINGTON FOR BOTH DIRECTIONS OF TRAFFIC.
10. CONTRACTOR SHALL PROVIDE FLAG CONTROL AS REQUIRED THROUGHOUT DURATION OF PROJECT.

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SEAL

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Advanced Warning Signage Diagram

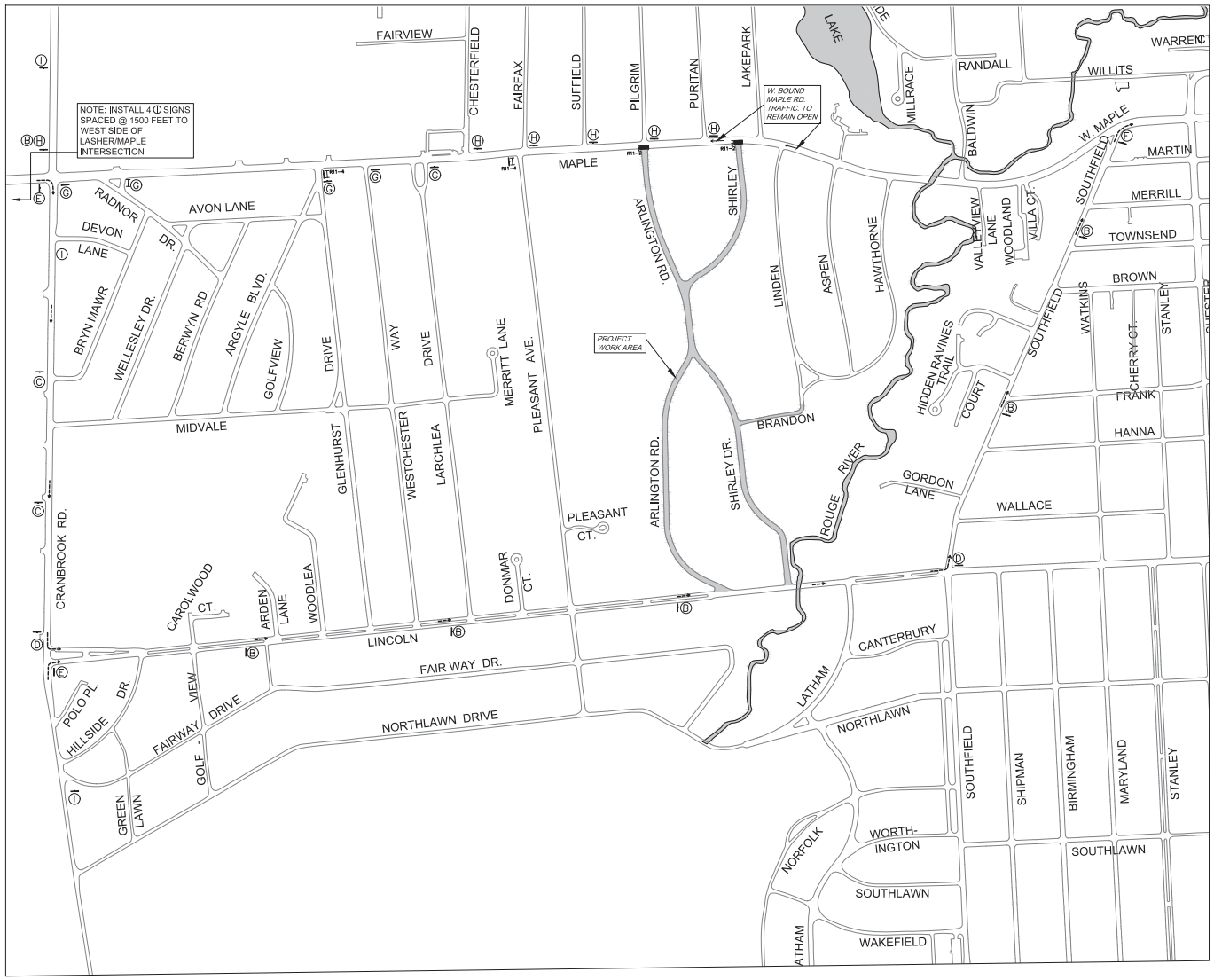
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C40

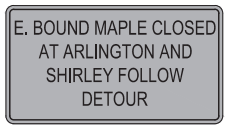
8D



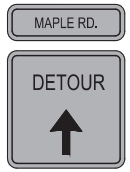
DETOUR PLAN: MAPLE ROAD (EAST-BOUND TRAFFIC)

ADVANCED WARNING SIGN "G"
R3-1

ADVANCED WARNING SIGN "H"
R3-2

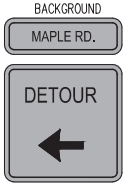


36"x72" ADVANCE WARNING SIGN "I"
BLACK LEGEND ON ORANGE BACKGROUND



10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND

30" x 30"
ADVANCED WARNING SIGN "C"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)



10" x 30"
ADVANCED WARNING SIGN "B"
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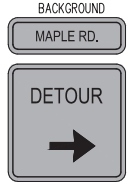
30" x 30"
ADVANCED WARNING SIGN "D"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)



10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND

30" x 30"
ADVANCED WARNING SIGN "E"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)

24" x 18"
ADVANCED WARNING SIGN "F"
BLACK LEGEND ON ORANGE BACKGROUND

SYMBOL KEY

- TYPE III BARRICADES
- ADVANCED WARNING SIGN
- DETOUR

SPECIAL ADVANCED WARNING SIGN QUANTITIES

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
SIGN "B"	MAPLE RD.	10"x30"	6
SIGN "C"	DETOUR W/ UP ARROW (M.D.O.T. M4-9U)	10"x18"	2
SIGN "D"	DETOUR W/ LEFT ARROW (M.D.O.T. M4-9L)	30"x30"	2
SIGN "E"	DETOUR W/ RIGHT ARROW (M.D.O.T. M4-9R)	30"x30"	2
SIGN "F"	END DETOUR	30"x30"	1
SIGN "G"	NO RIGHT TURN (R3-1)	30"x24"	5
SIGN "H"	NO LEFT TURN (R3-2)	30"x24"	6
SIGN "I"	E. BOUND MAPLE CLOSED AT ARLINGTON AND SHIRLEY FOLLOW DETOUR	36"x72"	3

OTHER ADVANCED WARNING SIGN QUANTITIES AS SHOWN

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
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R11-4	ROAD CLOSED FOR THRU TRAFFIC	60"x30"	T.B.D.

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

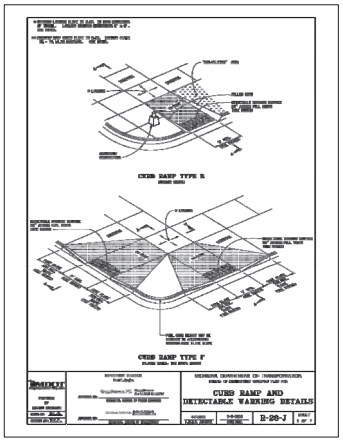
SHEET
Maple Rd. Traffic Detour Diagram

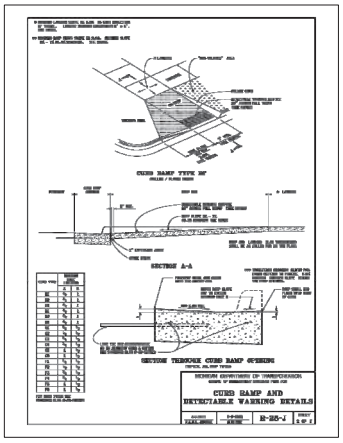
811
Know what's below
Call before you dig.

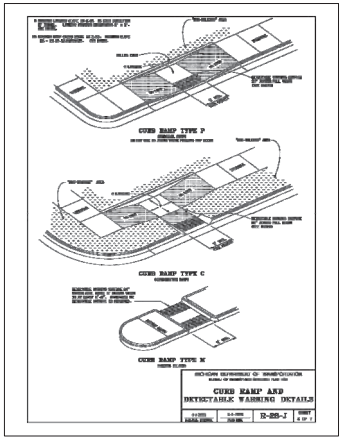
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

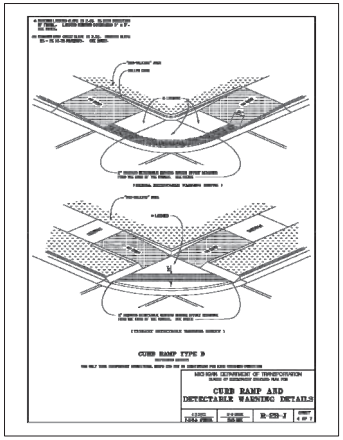
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulkangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

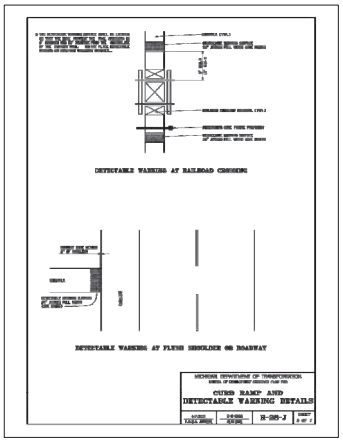
NFE JOB NO. N758
SHEET NO. C41

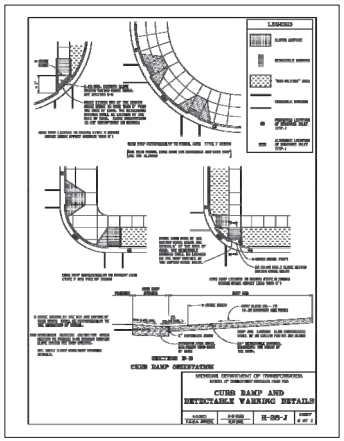


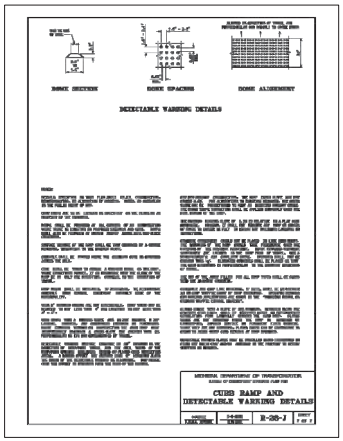












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Contract#9-24(W)

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Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

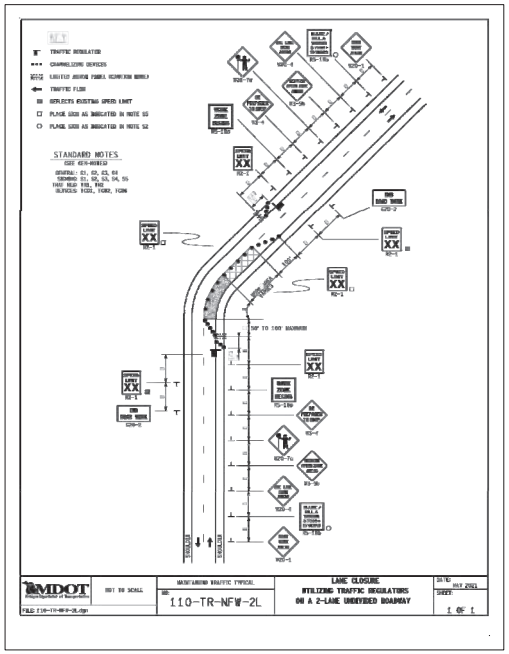
SHEET
Notes and Details (1of 3)

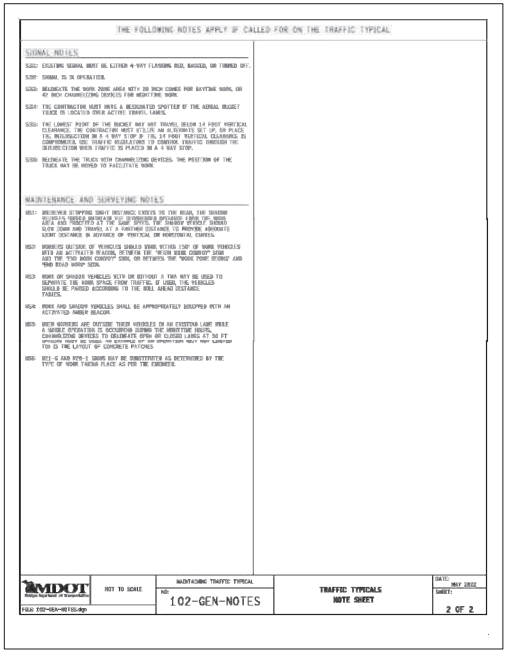
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C42





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Arlington Road & Shirley Drive Watermain Project
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Birmingham, MI 48012

PROJECT LOCATION
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SHEET
Notes and Details (2 of 3)

811
Know what's below
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04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C43

GENERAL NOTES

1. BRICK PAVERS SHALL BE REMOVED BY MEANS WHICH CAUSE NO DAMAGE TO THE BRICKS. BRICKS SHALL BE DELIVERED TO CITY OF BIRMINGHAM DEPARTMENT OF SERVICES AS DIRECTED BY THE ENGINEER.
2. ALL PAVEMENT TO BE REMOVED SHALL BE SAWCUT FULL DEPTH.
3. ANY GRAVEL REPLACEMENT NECESSARY FOR REGRADING DRIVEWAYS SHALL BE CONSIDERED INCLUDED IN THE COST OF CONCRETE DRIVE APPROACH.
4. ALL TREES NOT INDICATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION. WHERE NECESSARY, TREE ROOTS SHALL BE CUT CLEANLY. AT NO TIME WILL RIPPING OR TEARING OF TREE ROOTS BE ACCEPTABLE.
5. ALL DRIVEWAYS (BEHIND THE SIDEWALK) SHALL BE REPAIRED WITH A CROSS SECTION WHICH MATCHES THE EXISTING IN THICKNESS, OR A MINIMUM 4.0" BITUMINOUS MIXTURE No. 13A. IF THE EXISTING DRIVEWAY IS GREATER THAN 4.0" IN DEPTH, THE THICKNESS OF THE BITUMINOUS MIXTURE No. 13A SHALL BE ADJUSTED TO MAKE UP THE DIFFERENCE.
6. UNLESS OTHERWISE SHOWN, PROPOSED GRADES IN PROFILE ARE TOP OF CURB GRADES.
7. ROCKS, OR OTHER MISC. DEBRIS WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS DIRECTED OTHERWISE FROM THE CITY.
8. THE PAY ITEM "ADJUST STRUCTURE COVER" APPLIES ONLY TO PRE-EXISTING STRUCTURES TO BE ADJUSTED TO PROPOSED GRADES AS PART OF CONSTRUCTION.
9. IF THE CONTRACTOR HAS MULTIPLE CREWS WORKING THAT REQUIRES MULTIPLE CITY INSPECTORS ON A GIVEN WORK DAY, THE PAY ITEM "INSPECTOR CREW DAYS" SHALL BE MULTIPLIED BY THE CORRESPONDING NUMBER OF INSPECTORS REQUIRED DURING SAID WORK DAY.

PAVING NOTES

1. PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

   CONCRETE ROAD: BASE COURSE – 21AA CRUSHED LIMESTONE AGGREGATE (8" THICK)
   MIX – PORTLAND CEMENT TYPE IA (AIR-ENTRAINED), TO COMPLY WITH MDOT 3500HP REQUIREMENTS.

   CONCRETE FLATWORK: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED), WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1.5 TO 3 INCHES. COMPLY WITH MDOT 3500 REQUIREMENTS.

   ALL CONCRETE PAVEMENT AND FLATWORK MIXES USED ON THIS PROJECT SHALL COMPLY WITH A MINIMUM GROUND GRANULATED BLAST-FURNACE SLAG (GGBFS) SUBSTITUTION OF TWENTY-FIVE (25) PERCENT SUBJECT TO SEASONAL LIMITATIONS PER THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION.

   ASPHALT: BASE COURSE – 21AA CRUSHED LIMESTONE AGGREGATE (8" THICK)

   SURFACE COURSE(S):
   ASPHALT ROAD – MDOT HMA MIXTURE NO. 5EML (MAX. APPLICATION RATE 220 POUNDS PER SQUARE YARD)

   LEVELING COURSE(S):
   ASPHALT ROAD – MDOT HMA MIXTURE NO. 4EML (MAX. APPLICATION RATE 220 POUNDS PER SQUARE YARD)

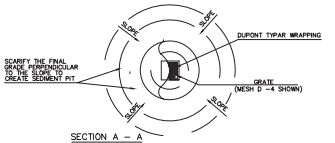
   BOND COAT – MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD
2. PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.
3. ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.
4. ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-S164.
5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2003 EDITION.
6. ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.
7. ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.
8. CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.
9. FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.
10. EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS (INCLUDED IN PAVING WORK).
11. EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.
12. SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.
13. ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.
14. FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.
15. R.A.P. NOT ALLOWED IN SURFACE / TOP COURSE OF ASPHALT.

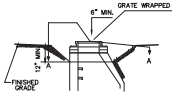
WATER MAIN NOTES

1. ALL WATER MAINS 4" AND LARGER SHALL BE DUCTILE IRON PIPE THICKNESS CLASS 52, WITH PUSH ON TYPE JOINTS PER CITY REQUIREMENTS.
2. NEW WATER MAINS SHALL BE INSTALLED WITH A MINIMUM 5.5 FEET OF COVER. EXCEPTIONS WILL BE ALLOWED WHEN NECESSARY TO CONNECT TO EXISTING MAIN OR WHEN AUTHORIZED BY THE ENGINEER.
3. KNOWN WATER SERVICES BASED ON FIELD INFORMATION OR CITY RECORDS ARE SHOWN ON THE PLANS AS FOLLOWS: "C" = COPPER, "L" = LEAD AND "W.S." = WATER SERVICE TYPE UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING ALL EXISTING SERVICES TO THE NEW MAIN AFTER IT HAS BEEN APPROVED FOR USE.
4. COAT ALL BOLTS ON MECHANICAL FITTINGS WITH TAR.
5. HYDRANT CONNECTION TO CONSIST OF 6" DUCTILE IRON PIPE, 6" GATE VALVE AND BOX, AND HYDRANT. HYDRANT SHALL BE EJIW MODEL 5BR WITH 6" MECHANICAL JOINT INLET, TWO PUMPER INLETS, ALL OPENING LEFT, 5'–6" TRENCH, PLUGGED DRAIN AND BLOCK BOLTS.
6. INSTALL GATE VALVE AS CLOSE TO HYDRANT AS PRACTICABLE.
7. GATE VALVES 4" AND LARGER MAY BE MUELLER BRAND SPECIFIED, OR APPROVED EQUIVALENT. ALL MATERIALS RELATIVE TO WATER SERVICE CONNECTIONS SHALL BE MUELLER BRAND.
8. IN ABANDONING MAINS, THE FOLLOWING SHALL BE DONE: PLUG ALL OPEN PIPE ENDS WITH MASONRY. DISCONNECT MAINS WHICH ARE TO BE ABANDONED FROM FITTINGS AT LIVE MAINS AND PLUG AND BLOCK THOSE FITTINGS. FILL MAIN TO BE ABANDONED WITH GROUT OR HYDRAULIC CEMENT.
9. WORK INDICATED BY (A) SHALL BE PERFORMED AFTER THE NEW MAINS ARE PLACED IN SERVICE.
10. THE LOCATIONS AND TYPES OF SERVICE LEADS IS BASED ON THE BEST AVAILABLE INFORMATION. THE EXACT LOCATION OF SERVICE LEADS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
11. WHERE APPLICABLE, THE APPROPRIATE SECTIONS OF EXISTING WATERMAIN SHALL BE SHUTDOWN AND DEPRESSURIZED PRIOR TO A) CUTTING AND REMOVING, B) CUTTING AND INSTALLING PROPOSED TEE CONNECTIONS, C) PERFORMING ANY AND ALL OTHER WORK AROUND/ADJACENT TO HYDRANTS AND ALL OTHER CONNECTIONS, WHILE MEETING AND/OR EXCEEDING APPLICABLE INDUSTRY SAFETY PRECAUTIONS AND MIOSHA STANDARDS.

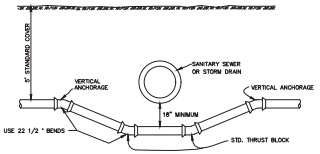
STORM SEWER NOTES (where applicable)

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY. THE MUNICIPALITY STANDARD NOTES, DETAILS AND SPECIFICATIONS SHALL BE INCORPORATED AS PART OF THESE PLANS.
2. ALL STORM SEWER TRENCHES UNDER OR WITHIN THREE (3) FEET OF EXISTING OR PROPOSED PAVEMENT SHALL BE BACK FILLED WITH MDOT CLASS II MATERIAL (SAND) AND BE MACHINE COMPACTED TO A MINIMUM OF 95 OF THE MATERIAL'S MAXIMUM DENSITY. PAVEMENT SHALL INCLUDE PARKING LOTS, DRIVE APPROACHES, 95 CURB & GUTTER AND ADJACENT WALKS.
3. ALL STORM SEWER PIPE SHALL BE INSTALLED ON CLASS "B" BEDDING OR BETTER UNLESS OTHERWISE INCLUDED ON THE PLANS.
4. STORM SEWER SHALL BE OF THE TYPE, SIZE & CLASS DESIGNATION INDICATED ON THE PLANS AND LIKEWISE BE INSTALLED AT THE PROPOSED LINE & GRADE INDICATED.
5. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM SPECIFICATION C–76 CL IV.
6. ALL MAN HOLE, CATCH BASIN, INLET, REAR YARD DRAINAGE STRUCTURES AND COVERS SHALL BE AS INDICATED ON THE PLANS AND CONSTRUCTED IN ACCORDANCE WITH MUNICIPALITY STANDARDS.
7. INSTALL TRAPS ON THE FIRST CATCH BASIN (TYPICALLY A 4' DIAMETER STRUCTURE WITH 2' SUMP) THAT IS UPSTREAM OF ITS CONNECTION TO A MAINLINE STORM OR SEWER MANHOLE, TO CAPTURE FLOATABLES AND TO MINIMIZE ESCAPE OF ODOR.
8. THE CONTRACTOR SHALL NOTIFY MISS DIG (1–800–482–7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
9. EXACT GRADES AND INVERTS OF PROPOSED STORM SEWER ARE TO BE CHECKED WITH THE FIELD ENGINEER PRIOR AND DURING INSTALLATION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY PLAN INCONSISTENCY AND/OR UTILITY CONFLICTS.
10. ALL STORM SEWER PIPE JOINTS SHALL BE "PREMIUM JOINT" MODIFIED GROOVED TONGUE (M.G.T.) WITH SYNTHETIC RUBBER GASKETS CONFORMING TO ASTM SPECIFICATION C–443 & C–361, UNLESS OTHERWISE INDICATED ON THE PLANS.
11. FACILITY MANUFACTURED PRECAST TEE SECTIONS SHALL BE FOR ROOF DRAINS AND/OR SUMP PUMP LEADS AND LATERALS WHERE INDICATED ON THE PLANS. BLIND TOP CONNECTIONS INTO STORM SEWER WILL NOT BE PERMITTED BY BREAKING PIPE WALL.
12. THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL SITE INSPECTIONS.

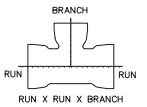




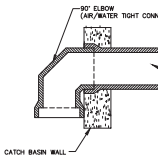
LOW POINT INLET FILTER & SEDIMENT PIT DETAIL
N.T.S.



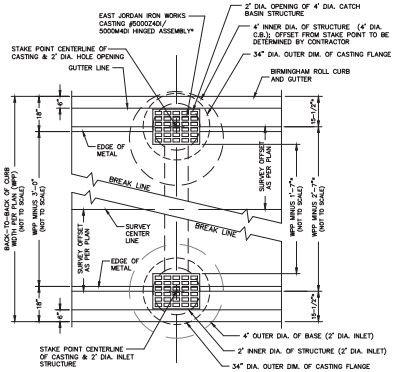
STANDARD SEWER OR STORM CROSSING
N.T.S.



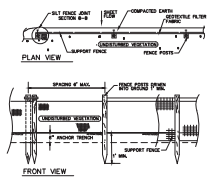
WATER MAIN TEE FITTING SIZE DESIGNATION SCHEMATIC
N.T.S.

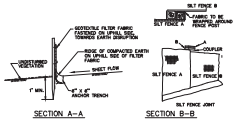


SEWER TRAP
N.T.S.

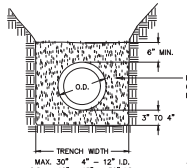


CURB, CATCH BASIN & INLET ALIGNMENT DETAIL PLAN VIEW
SCALE: 1" = 2'



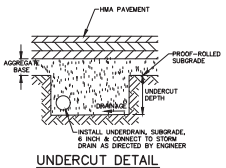


SILT FENCE DETAIL
N.T.S.

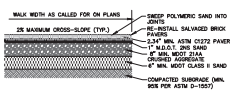


NOTE: APPROVAL MAY BE GIVEN TO ALTERNATE MATERIALS AND METHODS TO ACHIEVE CLASS B BEDDING.

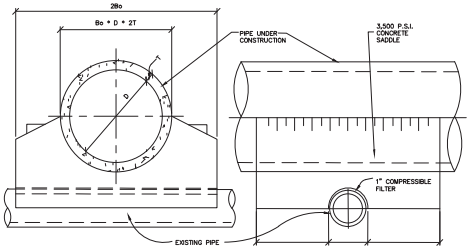
STANDARD PIPE BEDDING
N.T.S.



UNDERCUT DETAIL
N.T.S.

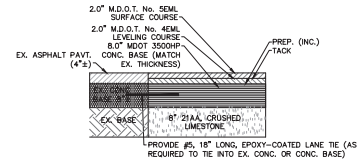


PEDESTRIAN CONCRETE PAVER SECTION (PEDESTRIAN TRAFFIC AREAS)
N.T.S.

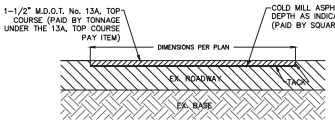


CONCRETE SADDLE REQUIRED WHEN DISTANCE BETWEEN PIPES IS LESS THAN 18 INCHES. COMPRESSIBLE FILTER SHALL BE NEOPRENE CONFORMING TO ASTM D1056, CLASS SBO–11 & CS09

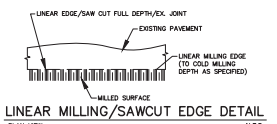
CONCRETE SADDLE OVER EXISTING UTILITIES
N.T.S.



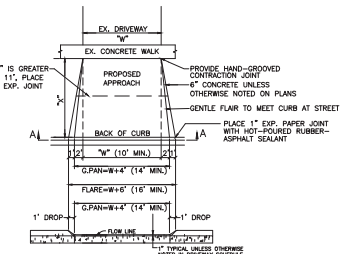
MAPLE RD. COMPOSITE PAVEMENT REPAIR SECTION
N.T.S.



COLD MILL ASPHALT DETAIL
N.T.S.

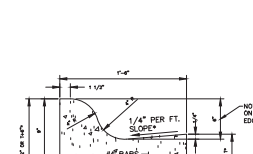


LINEAR MILLING/SAWCUT EDGE DETAIL
PLAN VIEW N.T.S.



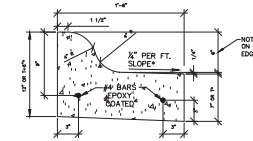
SECTION A–A

CONCRETE DRIVE APPROACH – DETAIL 'L'
N.T.S.



NOTE: OMIT #4 LONGITUDINAL BARS WHEN CURB & GUTTER IS POURED INTEGRAL OR TIED TO A NON–REINFORCED CONCRETE PAVEMENT.

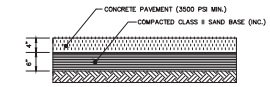
BIRMINGHAM 6" ROLL CURB
CONCRETE CURB & STANDARD GUTTER DETAIL
N.T.S.



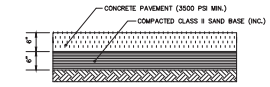
NOTE: OMIT #4 LONGITUDINAL BARS WHEN CURB & GUTTER IS POURED INTEGRAL OR TIED TO A NON–REINFORCED CONCRETE PAVEMENT.

BIRMINGHAM 6" ROLL CURB
CONCRETE CURB & REVERSE GUTTER DETAIL
N.T.S.

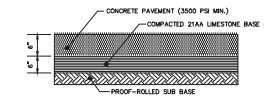
*NOTE: "T" IS EQUAL TO THE THICKNESS & SLOPE IS EQUAL TO THE CROSS–SLOPE OF THE CONCRETE PAVEMENT WHEN CURB & GUTTER IS POURED INTEGRAL TO THE PAVEMENT.



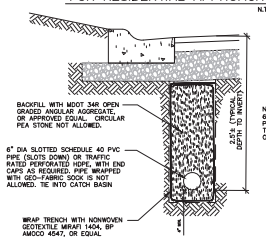
4" CONCRETE SIDEWALK SECTION
STANDARD SIDEWALK REPLACEMENTS/INSTALLATIONS N.T.S.



6" CONCRETE SIDEWALK SECTION
TO MATCH SPECIFIED PAVEMENT THICKNESS THROUGH DRIVE APPROACH N.T.S.



TYPICAL CONCRETE SECTION FOR RESIDENTIAL APPROACH
N.T.S.



6" PERFORATED PIPE UNDERDRAIN DETAIL
N.T.S.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Notes and Details (3 of 3)

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C44

BIRMINGHAM CONTRACT #9-24(W) - ARLINGTON RD. AND SHIRLEY DR. WATERMAIN PROJECT PAY ITEMS

NO.	ITEM DESCRIPTION	PAY UNIT	SHEET C1	SHEET C2	SHEET C3	SHEET C4	SHEET C5	SHEET C6	SHEET C7	SHEET C8	SHEET C9	SHEET C10	SHEET C11	SHEET C12	SHEET C13 - Utility Service Plan	SHEET C14 - Utility Service Plan	SHEET C15 Utility Service Plan	SHEET C16 Utility Service Plan	SHEET C17 Utility Service Plan	SHEET C18 Utility Service Plan	SHEET C25 P&G Plan	SHEET C26 P&G Plan	SHEET C27 P&G Plan	SHEET C28 P&G Plan	SHEET C29 P&G Plan	SHEET C30 P&G Plan	SHEET C31 P&G Plan	SHEET C32 P&G Plan	SHEET C33 P&G Plan	SHEET C34 P&G Plan	SHEET C35 P&G Plan	SHEET C36 P&G Plan	SHEET C37 P&G Plan	TOTAL QUANTITY
	SEWER PAY ITEMS																																	
1	10" Combined Sewer, PVC, SDR 26, Trench A	LF								161	299	108																						
2	12" Combined Sewer, PVC, SDR 26, Trench A	LF											212																					
3	15" Combined Sewer, PVC, SDR 26, Trench A	LF											96	38																				
4	36" Storm Sewer, CTR, CL-IV, Trench A	LF	208																															
5	21" Storm Sewer, CTR, CL-IV, Trench A	LF	129	129																														
6	18" Storm Sewer, CTR, CL-IV, Trench A	LF		146																														
7	15" Storm Sewer, CTR, CL-IV, Trench A	LF				32																												
8	12" Storm Sewer, CTR, CL-IV, Trench A	LF		89	351	274	333	422	86		112	92	161	220																				
9	10" Storm Sewer, PVC SDR 26, Trench A	LF								160																								
10	Storm Point Repair, 12" Diameter, PVC SDR 26, Trench A	LF			66		66						39																					
11	Sewer Service, 6" PVC SDR 26	LF													17																			
12	Sewer Service, 8" PVC SDR 26	LF													262	239	161	226	311	267														
13	New 4'-0" Diameter Combined Manhole, Casement Detail	EA								1		1	1																					
14	New 4'-0" Diameter Combined Manhole	EA									2		2																					
15	New 5'-0" Diameter Storm Manhole, Curbstop Detail	EA	1								1																							
16	New 2'-0" Diameter Storm Catch Basin w/ 2' Sump & Dual Inlet Grates	EA											2																					
17	New 2'-0" Diameter Storm Catch Basin w/ 3' Sump	EA	4	2																														
18	New 4'-0" Diameter Storm Manhole, Casement Detail	EA					1																											
19	New 4'-0" Diameter Storm Manhole w/ 2' Sump	EA					1		1					2																				
20	New 6'-0" Diameter Storm Manhole	EA				1																												
21	New 4'-0" Diameter Storm Catch Basin w/ 6' Sump, Casement Detail	EA		1		1		1																										
22	New 2'-0" Diameter Storm Catch Basin w/ 3' Sump	EA			2	1	3	1	1	3	2	1		1																				
23	New 2'-0" Diameter Storm Inlet	EA		2	1	2	3	2	3	2	3	1		3																				
24	8" Reinforced Pipe Underdrain (Bid item)	LF	808	1000	1000	839	966	1168	840	1000	1000	80	96	160																				
25	Sewer Interception, Lateral	EA													0	3	14	12	9	8														
26	Sewer Service Tap, 6"	EA														3		2	12	7														
27	Sewer Service Connection, 8"	EA													1																				
28	Sewer Service Connection, 6"	EA													12	7	16	11	7	5														
29	Sewer Tap, 24"	EA	1																															
30	Sewer Tap, 18"	EA				1							1																					
31	Sewer Tap, 12"	EA					1		1			1																						
32	Sewer Tap, 10"	EA								2																								
33	Sewer Tap, 8" Undetermined	EA	4																															
34	Install Concrete Saddle at Utility Crossing	EA				1							2	2																				
35	Reconstruct Manhole (if and where needed)	VF																																
36	Remove & Replace Pavement Over Sewer Trench for Structure	VF																																
37	Remove Ex. Sewer Manhole	EA					1	1	1	1	1	1	1																					
38	Remove Ex. Drainage Structure	EA	2	4	2	2	5	6	4	4	1	2	2																					
39	Abandon Ex. 18" Combined Sewer	LF								150	294																							
40	Abandon Ex. 15" Combined Sewer	LF											280																					
41	Remove Ex. 15" Combined Sewer	LF									102	124	8																					
42	Remove Ex. 12" Combined Sewer	LF											51																					
43	Remove Ex. 10" Combined Sewer	LF											97																					
44	Remove Ex. 6" Combined Sewer	LF							6																									
45	Remove Ex. 36" Storm Sewer	LF	13																															
46	Remove Ex. 18" Storm Sewer	LF		52	15	60	155		68	71																								
47	Remove Ex. 15" Storm Sewer	LF	68	28		60	38	66	16			40	66																					
48	Remove Ex. 8" Storm Sewer	LF			66					87	101																							
49	Remove Ex. 6" Storm Sewer	LF								8																								
50	Bulkhead Structure, 12" or Less	EA	1	2	1	4	4	2	4	4	2																							
51	Bulkhead Pipe, Larger than 8"	EA					1																											
52	CCTV Sewer Acceptance Inspection	LS																																
	SUBTOTAL, SEWER PAY ITEMS																																	
	WATER MAIN PAY ITEMS																																	
53	Remove Hydrant	EA		1	1	1		1		1			1	1																				
54	Remove Gate Valve Well	EA				2	2	1	1		2		1	1																				
55	8" Gate Valve & Well	EA		1	1	1	3	2	1		1		1	1																				
56	Fire Hydrant Assembly, Complete	EA	1	1	1	1	1	1	1	1	1	0	1	1																				
57	16" DI, CL 52 Water Main, w/ Polywrap, Trench A	LF							19																									
58	8" D.I. CL 52 Water Main w/ Polywrap, Trench A	LF	772	697	619	616	979	648	732	220	486	328	512	991																				
59	6" D.I. CL 52 Water Main w/ Polywrap, Trench A	LF	28	28	15	11	14	12	3	80	53	6	15	16																				
60	16" Water Main Connection to Ex. 16" Water Main	EA							1																									
61	8" Water Main Connection to Ex. 8" Water Main	EA	1					2					2																					
62	New Water Service, 2", Trench A, Copper	LF														20																		
63	New Water Service, 2", Trench A, Direct	LF													41	41	49	48	5	48														
64	New Water Service, 1", Trench A, Copper	LF													13	84	104	38	53	91														
65	New Water Service 1", Private Property (Bundle, PB1)	LF																	65															
66	Water Service Abandonment, 6"	AC														1	1																	
67	Water Service Connection, 1.5"	EA													6	7	5	6	4	2														
68	Water Service Connection, 1"	EA													7	6	16	6	4	8														
69	Water Service Abandonment, 1" (Connection at Main, Will Stay)	EA																	1	1														
70	Install Curb Stop & Box, 1"	EA														1	4																	
71	Hydra Stop, Insta-Valve 304, 12"	EA							1																									
72	Hydra-Stop, Line-Stop, 6"	EA																																
73	Hydra-Stop, Line-Stop, 8"	EA																																
74	Hamden Existing Water Mains, Dillow Project	LS																																
	SUBTOTAL, WATER MAIN PAY ITEMS																																	
	PAVING PAY ITEMS																																	
75	Earth Excavation	CY																			445	569	686	966	726	670	569	668	445	556	609	656	556	7,669
76	Subgrade Undercutting, Lean Limestone	CY																																116
77	Subgrade Undercutting, FLAC Limestone	CY																																751
78	Subgrade Geogrid Fabric, Tensar Triax TX7000	SY																																2,100
79	Existing and Salvage Brick Pavers	SF																			0	329	90	349	0	72	0	59	90	199	0	24	200	1,812
80	Removing Concrete Drive Approach	SY																			0	63	27	109	0	71	0	58	0	76	0	0	0	474
81	Removing Asphalt Drive Approach	SY																			39	153	87	0	63	27	135	81	0	0	143	103	11	846
82	Removing Concrete Sidewalk & Ramp (coexisting included)	SY																				1	6			20	153					37	16	231
83	Removing Pavement Full Depth (Curb & Gutter included)	SY																			1440	1631	1618	2373	2256	2018	1551	1631	1539	1716	1814	2438	1680	23,984
84	Aggregate Base, MDOT 21AA Limestone, 8"	SY																			1440	1540	1540	2686	2256	2122	1638	1540	1512	1190	1540	2131	1680	24,022
85	Replace Maple Road Composite Pavement at Arlington (Per Detail)	LS																																1
86	Replace Maple Road Composite Pavement at Shirley (Per Detail)	LS																																1
87	Bituminous Mixture No. 4FML (2.5" Wearing Course)	TON																			167	185	184	260	254	250	183	185	170	112	186	262	190	2,564
88	Bituminous Mixture No. 4FML (2.5" Leveling Course)	TON																			317	353	353	500	484	299	353	353	325	215	353	503	365	4,944
89	Concrete Curb & Gutter (18" Wide, "Birmingham Roll")	LF																			800	1031	1031	1372	1323	1262	1031	1031	810	807	1052	1581	868	16,914
90	Concrete Drive Approach, 8"	SY																			92	645	149	300	152	111	101	91	80	160	156	73	1,554
91	Concrete Sidewalk, 4"	SF																								270	1166					266	1110	3,987
92	Remove& Salvaged Brick Pavers	SF																															180	180
93	Handicap Ramp, Truncated Domes	SF																								36						36	36	108
94	Minor Shoreline Clean	SA	1	2	1	1	1	1	1	1	1	1	2	2																				19
95	Maintenance Aggregate for Entire Project	LS																																1
	SUBTOTAL, PAVING PAY ITEMS																																	
	GENERAL PAY ITEMS																																	
96	Mobilization (Max. 5% of Bid)	LS																																1
97	Traffic Control, Cat A Control	LS																																1
98	Inspector Crew Days	DAYS																																
99	Rates and Taxes Allowance	LS																																1
100	Pavement Marking Polyurea, 24 inch Crosswalk/Hatching, White	LF																								42						42	84
101	Pavement Marking Polyurea, 4" inch, White or Blue	LF																														135	135	270
102	Temporary Pavement Marking, Type III	SF																																647
103	Salvage Existing Signs	LS																																1
104	New Signs	SF																																58
105	Sign Post, U-Channel	LF																																35
106	Wood Split Rail Fence	LF																														125	125	250
107	Tree Protection, 3" Dia. Or Greater	EA																			12	10	10	10	8	12	13	12	7	10	13	16	3	140
108	Reserved	CY																			80	80	80	80	74	80	80	80	80	80	80	80	80	1,514
109	Topsoil, 3"	SY																			670	680	680	680	680	680	680	680	680	680	680	680	680	9,350
110	Sod, Class A	SY																			670	680	680	680	680	680	680	680	680	680	680	680	680	9,350
111	Inlet Filter	EA																																21
112	Inlet Bulkhead (S)	EA																																20
	SUBTOTAL, GENERAL PAY ITEMS																																	
	ALTERNATE #1 - "ROUGE RIVER STORM OUTFALL"																																	
	ALTERNATE #1 PAY ITEMS																																	
113	24" Storm Sewer, CTR, CL-IV, Trench A	LF																																358
114	12" Storm Sewer, CTR, CL-IV, Trench A	LF																																46
115	Remove Ex. MH 16A & Install Contech SCD-72 Water Quality Structure	EA																																1
116	Install Contech CDS Water Quality Structure	EA																																1
117	New 2'-0" Diameter Storm Manhole, Curbstop Detail	EA																																1
118	New 5'-0" Diameter Storm Manhole	EA																																2
119	New 12" Diameter Storm Manhole	EA																																1
120	New 36" Dia. End Section w/ Rip Scrapo	EA																																1
121	Natural Stone Rip-Rap, 12"-18"	SY																																20
	SUBTOTAL, ALTERNATE #1 PAVING & GENERAL PAY ITEMS																																	

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Quantities

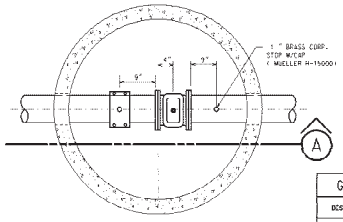
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. Q1

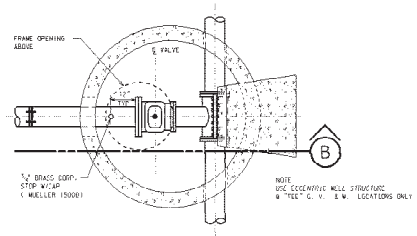
8D



GATE WELL PLAN

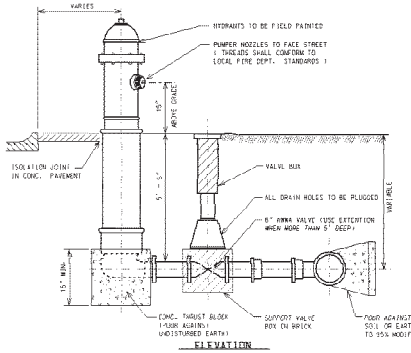
NO SCALE

GATE WELL SCHEDULE		PIPE DIA. INCHES		
DESCRIPTION	DIM.	6" & 8"	12"	16"
INSIDE DIA.	A	60"	72"	72"
WALL THICK.	B	5"	7"	7"
VALVE BLOCK THICK.	C	4"	4"	4"

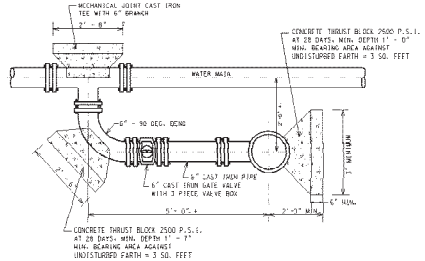


TAPPING SLEEVE, VALVE & WELL PLAN

NO SCALE



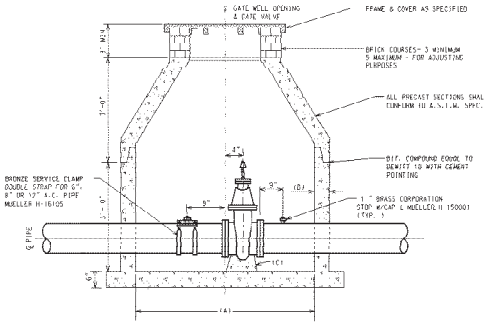
ELEVATION



"L" HYDRANT CONNECTION

NO SCALE

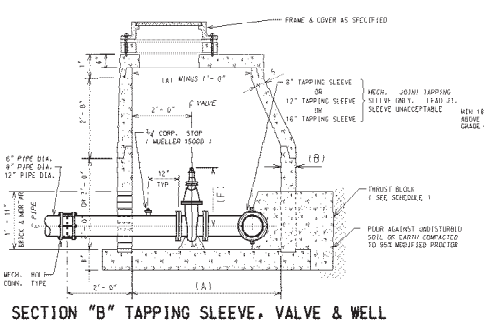
W-9



SECTION "A" GATE WELL

NO SCALE

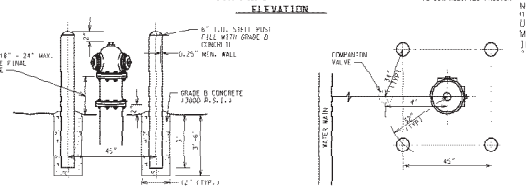
W-1 & W-3



SECTION "B" TAPPING SLEEVE, VALVE & WELL

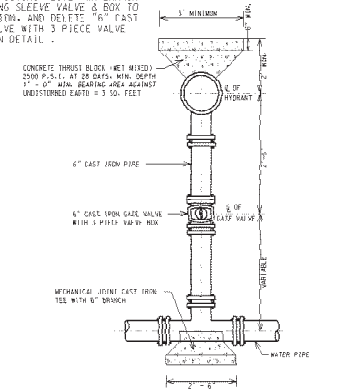
NO SCALE

W-4



FIRE HYDRANT GUARD POSTS DETAIL

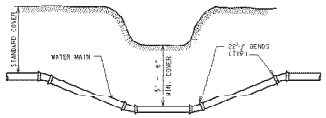
NOTE: FOR CONSTRUCTION OF NEW FIRE HYDRANT TO EXISTING LIVE WATERMAIN USE 6" TAPPING SLEEVE VALVE & BOX TO MAKE CONNECTION. AND DELETE "6" CAST IRON GATE VALVE WITH 3 PIECE VALVE AS SHOWN ON DETAIL .



STRAIGHT HYDRANT CONNECTION

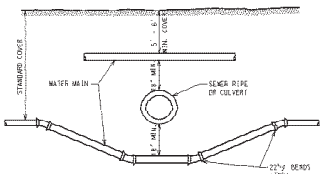
NO SCALE

W-10



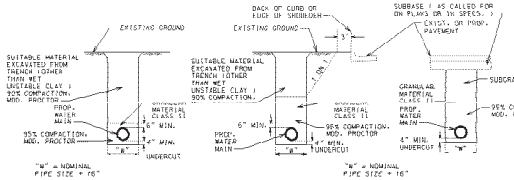
DITCH AND STREAM CROSSING

NO SCALE



SEWER OR CULVERT CROSSING

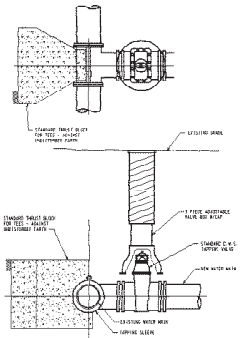
NO SCALE



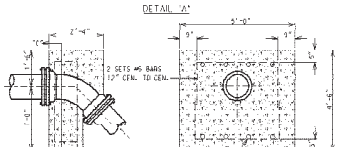
PROP. WATER MAINS NOT UNDER PAVED SURFACE

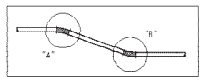
PROP. WATER MAINS UNDER PAVED SURFACE OR WITHIN INFLUENCE OF PAVED SURFACE

BEDDING DETAILS

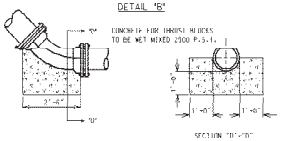


TAPPING SLEEVE & VALVE W/VALVE BOX

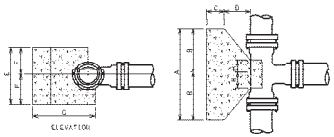




DETAIL "B"



VERTICAL BEND THRUST BLOCKS FOR 8"-12" MAINS



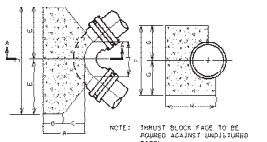
THRUST BLOCK FACE SHALL BE POURED AGAINST UNDISTURBED EARTH

CONCRETE FOR THRUST BLOCKS TO BE WET MIXED 2500 P.S.I.

SCHEDULE OF THRUST BLOCK DIMENSIONS			
	TEE SIZE		
CODE	8"x8" 12"x8" 16"x8" 24"x8"	12"x12" 16"x12" 24"x12"	16"x16" 24"x16"
A	3'-0"	4'-0"	5'-0"
B	3'-0"	4'-0"	5'-0"
C	1'-0"	1'-0"	2'-0"
D	1'-0"	1'-6"	2'-0"
E	1'-0"	1'-6"	2'-0"
F	1'-0"	1'-6"	2'-0"
G	8"	2'-0"	2'-10"
	12"	2'-0"	2'-10"
	16"	2'-10"	3'-8"
	24"	3'-3"	4'-0"
H	8"	0'-10"	
	12"	0'-10"	
	16"	0'-10"	1'-10"
	24"	0'-10"	1'-10"

CONCRETE THRUST BLOCK FOR TEES

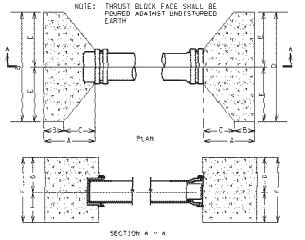
N.T.S.



SIZE	ANGLE	A MIN.	B MIN.	C	D	E	F	G	H MIN.	J
6"	45°	1'-0"	0'-9"	1'-0"	2'-4"	1'-0"	2'-0"	1'-0"	1'-11"	1'-6"
8"	90°	1'-9"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	1'-11"	1'-2"
12"	22-1/2°	1'-9"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	2'-0"	1'-4"
12"	45°	2'-1"	0'-9"	1'-3"	3'-9"	1'-9"	2'-9"	1'-3"	2'-0"	1'-6"
12"	90°	2'-1"	0'-9"	1'-4"	4'-2"	2'-0"	3'-0"	1'-6"	2'-0"	1'-6"
16"	22-1/2°	1'-9"	1'-0"	1'-3"	3'-4"	1'-8"	2'-6"	1'-3"	2'-0"	1'-2"
16"	45°	2'-0"	1'-0"	1'-8"	5'-4"	2'-8"	3'-0"	1'-6"	2'-0"	1'-6"
16"	90°	2'-8"	1'-0"	1'-9"	6'-0"	3'-0"	5'-0"	2'-6"	2'-0"	1'-8"
24"	90°	4'-0"	1'-0"	1'-3"	10'-0"	5'-0"	7'-0"	1'-6"	2'-0"	2'-2"

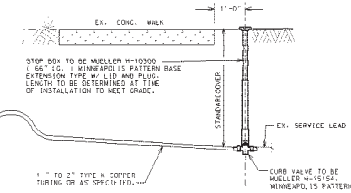
CONCRETE THRUST BLOCK FOR BENDS

N.T.S.



SIZE	A MIN.	B MIN.	C	D	E	F	G
8"	1'-11"	0'-9"	1'-4"	3'-0"	1'-6"	4'-0"	1'-0"
12"	2'-3"	0'-9"	1'-6"	4'-0"	2'-0"	5'-0"	1'-6"
16"	2'-8"	1'-0"	1'-8"	5'-0"	2'-6"	4'-0"	2'-0"

CONC. THRUST BLOCKS FOR PLUGS & CAPS



WATER SERVICE CONNECTION (TYP)

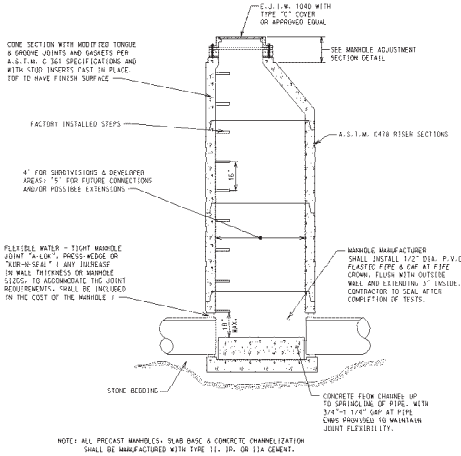
NO SCALE

City of Birmingham

151 MARTIN STREET BIRMINGHAM, MICHIGAN 48102

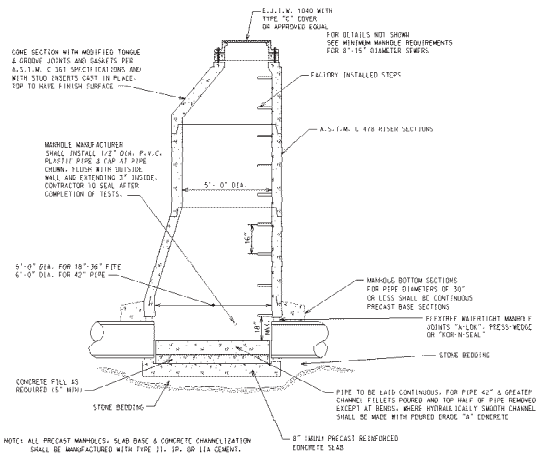
WATER MAIN STANDARD DETAILS

DATE	ENGINEERING REVISION	DRAWN	PROJECT NO.	SHEET NO.
		DESIGNED	SHEET DATE	WM-1
		APPROVED	SCALE	



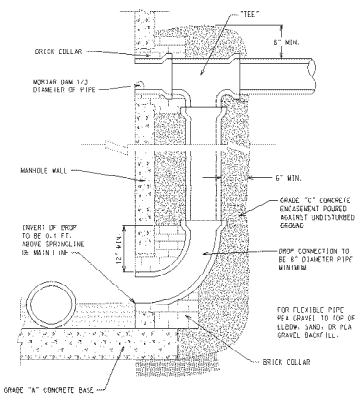
SEWER MANHOLE

(6" THRU 15" DIA. SEWERS)

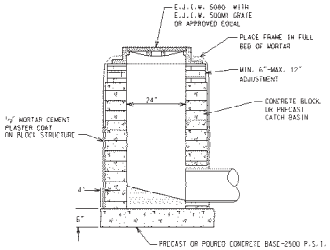


SEWER MANHOLE

(18" THRU 42" DIA. SEWERS)

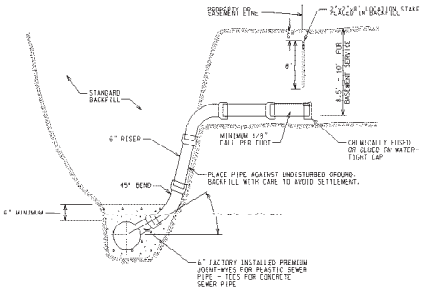


EXTERNAL DROP CONNECTION



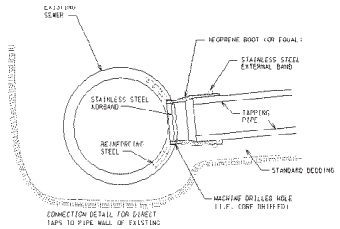
2 FT. DIAMETER INLET

NOTE:
FOR CATCH BASINS OR INLETS WITHIN YARD AREAS USE E.J.I.W. 1040 WITH TYPE "H" COVER OR APPROVED EQUAL



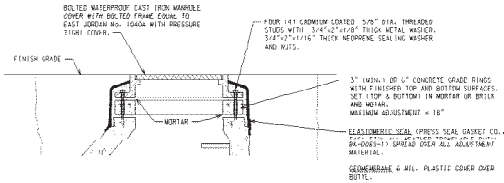
BUILDING LEAD DETAIL

0' - 15' COVER

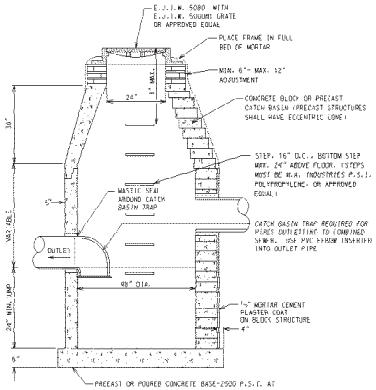


KOR-N-TEE TAP FOR CONCRETE

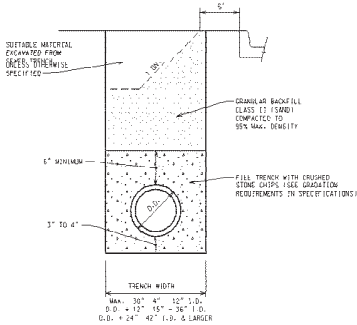
NO SCALE



SANITARY MANHOLE ADJUSTMENT SECTION DETAIL



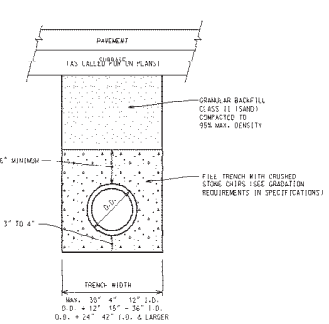
4 FT. DIAMETER CATCH BASIN

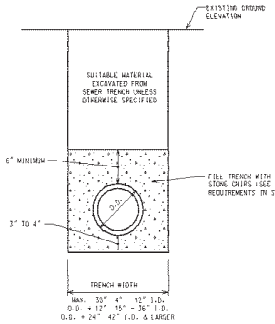


TRENCH DETAIL "A"

SEWER UNDER ROAD BED OR WITHIN THE INFLUENCE OF ROAD BED

NOT TO SCALE

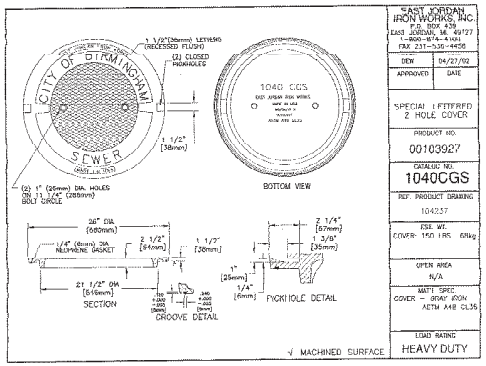




TRENCH DETAIL "B"

SEWER NOT UNDER ROAD BED

NOT TO SCALE



EAST JORDAN IRON WORKS, INC.
P.O. BOX 439
EAST JORDAN, MI 49727
800-874-4941
FAX 231-536-4406

DRN	04/27/02
APPROVED	DATE

SPECIAL (LETTERED 2 HOLE COVER

PRODUCT NO.
00103927

CATALOG NO.
1040CGS

REF. PRODUCT DRAWING
104237

NSE WT.
COVER- 150 LBS. 68kg

OPEN AREA
N/A

MATL SPEC
COVER — GRAY IRON ASTM A48 CL35

LOAD RATING
HEAVY DUTY

City of Birmingham

151 MARTIN STREET BIRMINGHAM, MICHIGAN 48012

SEWER STANDARD DETAILS

DATE	SUBDIVISION AND/OR LOCATION	DRAWN	PROJECT NO.	SHEET NO.
		CHECKED	DATE JANUARY 2007	
		APPROVED	SCALE	

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assement District

Sidwell Number	Street Address	Sewer Lateral Length (ft)	Sewer SAD Costs	Water Lateral Length (ft)	Water SAD Costs
19-35-202-033	218 Arlington	28	$5,600.00	34	$2,380.00
19-35-202-035	280 Arlington	23	$4,600.00	-	-
19-35-202-036	316 Arlington	22	$4,400.00	-	-
19-35-202-039	414 Arlington	30	$6,000.00	-	-
19-35-202-042	500 Arlington	15	$3,000.00	-	-
19-35-202-043	550 Arlington	34	$6,800.00	-	-
19-35-202-044	600 Arlington	-	-	11	$825.00
19-35-202-045	700 Arlington	22	$4,400.00	29	$2,175.00
19-35-202-046	730 Arlington	-	-	32	$2,240.00
19-35-202-047	776 Arlington	-	-	31	$2,170.00
19-35-202-048	800 Arlington	20	$4,000.00	30	$2,100.00
19-35-202-050	898 Arlington	21	$4,200.00	30	$2,100.00
19-35-202-055	1420 W Lincoln	28	$5,600.00	-	-
19-35-202-069	1589 W. Maple	25	$5,000.00	-	-
19-35-226-002	175 Arlington	26	$5,200.00	16	$1,200.00
19-35-226-003	243 Arlington	23	$4,600.00	16	$1,120.00
19-35-226-004	269 Arlington	28	$5,600.00	18	$1,260.00
19-35-226-006	345 Arlington	30	$6,000.00	37	$2,590.00
19-35-226-009	100 Shirley	34	$6,800.00	32	$2,240.00
19-35-226-010	188 Shirley	23	$4,600.00	37	$2,590.00
19-35-226-011	226 Shirley	21	$4,200.00	34	$2,380.00
19-35-226-012	252 Shirley	17	$3,400.00	36	$2,520.00
19-35-226-016	377 Arlington	27	$5,400.00	-	-
19-35-226-017	350 Shirley	33	$6,600.00	-	-
19-35-227-004	345 Shirley	24	$4,800.00	14	$980.00
19-35-227-005	361 Shirley	19	$3,800.00	40	$3,000.00

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assement District

19-35-227-006	381 Shirley	35	$7,000.00	41	$2,870.00
19-35-227-008	421 Arlington	38	$7,600.00	60	$4,200.00
19-35-227-009	445 Arlington	29	$5,800.00	40	$3,600.00
19-35-227-010	463 Arlington	24	$4,800.00	-	-
19-35-227-011	487 Arlington	29	$5,800.00	-	-
19-35-227-013	585 Shirley	37	$7,400.00	-	-
19-35-227-035	619 Shirley	41	$8,200.00	-	-
19-35-227-036	663 Shirley	41	$8,200.00	Lead	$0.00
19-35-276-001	503 Arlington	32	$6,400.00	15	$1,050.00
19-35-276-002	577 Arlington	18	$3,600.00	33	$2,310.00
19-35-276-003	645 Arlington	25	$5,000.00	39	$2,730.00
19-35-276-006	779 Arlington	30	$6,000.00	19	$1,330.00
19-35-276-007	843 Arlington	31	$6,200.00	20	$1,400.00
19-35-276-008	881 Arlington	30	$6,000.00	20	$1,400.00
19-35-276-010	975 Arlington	17	$3,400.00	-	-
19-35-276-011	1057 Arlington	35	$7,000.00	22	$1,540.00
19-35-276-013	640 Shirley	10	$2,000.00	-	-
19-35-276-015	770 Shirley	15	$3,000.00	35	$2,450.00
19-35-276-016	822 Shirley	22	$4,400.00	32	$2,240.00
19-35-276-017	880 Shirley	37	$7,400.00	17	$1,275.00
19-35-276-018	914 Shirley	27	$5,400.00	15	$1,125.00
19-35-276-022	1000 Shirley	8	$1,600.00	-	-
19-35-276-023	737 Arlington	29	$5,800.00	19	$1,330.00
19-35-277-003	811 Shirley	37	$7,400.00	36	$2,520.00
19-35-277-005	905 Shirley	26	$5,200.00	26	$1,820.00
19-35-277-006	955 Shirley	32	$6,400.00		$2,380.00

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

City Clerk's Office

DATE: **June 17, 2024**

TO: **Melissa Coatta, City Engineer**

FROM: **Alexandria Bingham, City Clerk**

SUBJECT: **Clerk's Confirmation of Public Hearing Notice: Arlington, Shirley, and Brandon Street Project, Contract #6-24(W) - Sewer and Water Lateral Special Assessment District (SAD)**

The public hearing notice process has been completed for Arlington, Shirley, and Brandon Street Project, Contract #6-24(W) - Sewer and Water Lateral Special Assessment District (SAD). Please see attachments for further confirmation.

Mailing Date: 6/4/2024
Test Mail Return Date: 6/6/2024
Publishing Dates in the Oakland Press: 6/9/2024 & 6/16/2024
Posted in www.bhamgov/publicnotices: 6/4/2024

Attachments:

1. Public Hearing Notice
2. Addresses
3. Mailing Letter
4. Mail Machine Counter Report
5. Proof of publishing for 6/9/2024 & 6/16/2024

NOTICE OF PUBLIC HEARING

BIRMINGHAM CITY COMMISSION

PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL

Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, June 24, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Project Location:	Arlington, Shirley, Brandon: 1935202033 218 Arlington 1935202035 280 Arlington 1935202036 316 Arlington 1935202039 414 Arlington 1935202042 500 Arlington 1935202043 550 Arlington 1935202044 600 Arlington 1935202045 700 Arlington 1935202046 730 Arlington 1935202047 776 Arlington 1935202048 800 Arlington 1935202050 898 Arlington 1935202055 1420 W. Lincoln 1935202069 1589 W Maple 1935226002 175 Arlington 1935226003 243 Arlington 1935226004 269 Arlington 1935226006 345 Arlington 1935226009 100 Shirley 1935226010 188 Shirley 1935226011 226 Shirley 1935226012 252 Shirley 1935226016 377 Arlington 1935226017 350 Shirley 1935227004 345 Shirley 1935227005 361 Shirley 1935227006 381 Shirley 1935227008 421 Arlington 1935227009 445 Arlington 1935227010 463 Arlington 1935227011 487 Arlington 1935227013 585 Shirley 1935227035 619 Shirley 1935227036 663 Shirley 1935276001 503 Arlington 1935276002 577 Arlington 1935276003 645 Arlington 1935276006 779 Arlington 1935276007 843 Arlington 1935276008 881 Arlington 1935276010 975 Arlington 1935276011 1057 Arlington 1935276013 640 Shirley 1935276015 770 Shirley 1935276016 822 Shirley 1935276017 880 Shirley 1935276018 914 Shirley 1935276022 1000 Shirley 1935276023 737 Arlington 1935277003 811 Shirley 1935277005 905 Shirley 1935277006 955 Shirley
Nature of Improvement:	The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project. This will include the replacement of all sewer laterals that are 50 years of age or older, less than 6-inch diameter, or an unsuitable material. Water services less than the City minimum size of 1-inch diameter, are 60 years of age or older, or an unsuitable material will also be replaced.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248)530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/9/2024 & 6/16/2024
Approved minutes may be reviewed at:	City Clerk's Office or www.bhamgov.org/commissionagendas

Should you have any statement regarding the above, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**

You or your agent may appear at the hearings to express your views; however, if you fail to protest either in person or by letter received on or before the date of the hearing, you cannot appeal the amount of the special assessment to the Michigan Tax Tribunal. Mail any correspondence to: City Clerk, P.O. Box 3001, Birmingham, MI 48012.

The property owner may file a written appeal of the special assessment with the State Tax Tribunal within 30 days after the confirmation of the special assessment roll if that special assessment was protested at the hearing held for the purpose of confirming the roll.

All special assessments, including installment payments, shall, from the date of the confirmation thereof, constitute a lien on the respective lots or parcels assessed, and until paid shall be charged against the respective owners of the lots or parcels assessed.

Persons with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk's Office at 248.530.1880 (voice) or 248.644.3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.

Arlington, Shirley, and Brandon Street Project, Contract #6-24(W) - Sewer and Water Lateral Special Assessment District (SAD)

Parcel Identification Number		First Owner Name	Postal Address	Postal City Postal State Postal Zip 5
Parcel: 1935202033	218 Arlington	KERRY AND JULIE MILLIRON	218 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202035	280 Arlington	NIHARIKA RAMDEV	280 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202036	316 Arlington	ROBERT A EPSTEIN	4111 ANDOVER RD	BLOOMFIELD HILLS, MI 48302
Parcel: 1935202039	414 Arlington	ROBERT A EPSTEIN	414 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202042	500 Arlington	ETHAN D DAVIDSON REVOC TRUST	444 ARLINGTON ST	BIRMINGHAM, MI 48009
Parcel: 1935202043	550 Arlington	SHERRY L MCCORMICK REVOC TRUST	550 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202044	600 Arlington	RYAN J CHAYKA	600 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202045	700 Arlington	SCHWEGMAN LIVING TRUST	700 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202046	730 Arlington	HEIDI PINKERT	42 CREST DR S	CRESSKILL, NJ 07626
Parcel: 1935202047	776 Arlington	FREMONT SCOTT	776 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202048	800 Arlington	STEVEN R MILLER	800 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202050	898 Arlington	GEORGE ABRAHAM	898 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202055	1420 W. Lincoln	WILLIAM C EDMUNDS	1420 W LINCOLN AVE	BIRMINGHAM, MI 48009
Parcel: 1935202069	1589 W Maple	FIRST UNITED METHODIST CHURCH OF BIRMINGHAM	1589 W MAPLE RD	BIRMINGHAM, MI 48009
Parcel: 1935226002	175 Arlington	KARLEE NOVICE	175 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226003	243 Arlington	LISA M DRAKE	243 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226004	269 Arlington	MIDGE MORAN	269 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226006	345 Arlington	ROGER N STEED	345 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226009	100 Shirley	NICHOLAS A COULSON	100 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935226010	188 Shirley	GARY W SALTZGIVER	188 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935226011	226 Shirley	NICHOLAS J SHEBIB	226 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935226012	252 Shirley	DREW BILLMEYER	164 WESTCHESTER WAY	BIRMINGHAM, MI 48009
Parcel: 1935226016	377 Arlington	MICHAEL A MINELLI II	377 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226017	350 Shirley	MITCHELL S WAYNE	483 N GLENGARRY RD	BLOOMFIELD HILLS, MI 48301
Parcel: 1935227004	345 Shirley	RICHARD SILBERGLEIT	345 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227005	361 Shirley	CREAGH E MILFORD	361 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227006	381 Shirley	ERIC J HEAD	381 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227008	421 Arlington	JOSEPH DURHAM	421 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935227009	445 Arlington	DAVID COLMAN	445 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935227010	463 Arlington	463 ARLINGTON ST TRUST	2000 BRUSH ST STE 440	DETROIT, MI 48226
Parcel: 1935227011	487 Arlington	DOUGLAS G DELGROSSO	487 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935227013	585 Shirley	ANDREA BROWN	585 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227035	619 Shirley	DAVID WEINTRAUB	619 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227036	663 Shirley	DAVID MITCHELL	1155 PURITAN AVE	BIRMINGHAM, MI 48009
Parcel: 1935276001	503 Arlington	DAVID HENNING	503 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276002	577 Arlington	DOUGLAS FRIEDEL JR	8646 E 9 MILE RD	WARREN, MI 48089
Parcel: 1935276003	645 Arlington	JAMES MIRRO	737 ARLINGTON ST	BIRMINGHAM, MI 48009
Parcel: 1935276006	779 Arlington	MARC R LAKIN	779 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276007	843 Arlington	BRIAN A DR CONNOLLY	843 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276008	881 Arlington	MICHAEL VAN SYCKLE	881 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276010	975 Arlington	ROBERT STEWART	975 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276011	1057 Arlington	THOMAS SHAFFOU	4744 EDKINS ST	WEST BLOOMFIELD, MI 48323
Parcel: 1935276013	640 Shirley	JOSEPH D CARTER TRUST	640 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276015	770 Shirley	MARK J ROGERS	770 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276016	822 Shirley	CLINTON M BALLER REVOC TRUST	822 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276017	880 Shirley	CHRISTOPHER GAUDETTE	880 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276018	914 Shirley	NICOLAS W PERAINO	914 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276022	1000 Shirley	SIMON J LEOPOLD	1000 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276023	737 Arlington	JAMES A MIRRO	737 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935277003	811 Shirley	STUART BORMAN	811 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277005	905 Shirley	TONY J TREASE	905 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277006	955 Shirley	JEFFREY A CHANDLER	955 SHIRLEY DR	BIRMINGHAM, MI 48009

BIRMINGHAM
A WALKABLE CITY

June 3, 2024

TO: parcel #
NAME
ADDRESS
CITY/STATE/ZIP

Re: Arlington, Shirley, and Brandon Street Project, Contract #6-24(W)
Sewer and Water Lateral Special Assessment District (SAD)

To whom it may concern,

The City of Birmingham Arlington, Shirley, and Brandon Street Project will start in the Summer of 2024. The project includes the replacement of the water main, sewer improvements, and the streets will be converted to an improved road.

This project will include the replacement of the water main and sewer improvements. The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project. This will include the replacement of all sewer laterals that are 50 years of age or older, less than 6 inch diameter, or an unsuitable material. Water services less than the City minimum size of 1 inch diameter, are 60 years of age or older, or an unsuitable material will also be replaced. All unsuitable sewer laterals will be replaced with 6" schedule 40 PVC, and unsuitable water services will be replaced with new 1 inch diameter pipe. The lengths of sewer and/or water laterals replacement will be within the right-of-way. Enclosed is a map of properties included in the Sewer and Water Lateral SAD.

With this letter, you are receiving notifications for two public hearings for the Sewer and Water Lateral Special Assessment District (SAD):

- The Public Hearing of the Necessity to form a Special Assessment District for the sewer and water laterals replacement meeting the requirements as part of the Arlington, Shirley and Brandon Street Project is **Monday, June 24, 2024**, at the regularly scheduled City Commission meeting at 7:30 p.m. in City Hall at 151 Martin St.

- If necessity is determined at the June 24 hearing, a Public Hearing of Confirmation to confirm the Special Assessment District will follow on **Monday, July 8, 2024**, at the regularly scheduled City Commission meeting at 7:30 p.m. in City Hall at 151 Martin St.

Consistent with previous projects of this nature, it has been the City's policy to assess 100% of the costs of replacing the portion of unsuitable water and sewer laterals within the right-of-way to the property owner.

After the work is completed, an invoice will be generated and sent to the property owner of record for the public improvements. Payment in full will be expected within 30 days of receipt. If you are not in a position to pay off the charge in one payment, it can be broken into as many as 10 annual payments. An annual interest charge on the remaining balance, currently about 9.50 percent, will apply. Official estimates of the water and sewer lateral replacements will be provided at the Hearing of Necessity.

If you have any questions or concerns, please contact the Engineering Office at (248) 530-1850. You will have the opportunity to ask questions and speak directly to the City Commission at the Public Hearing of Necessity and at the Confirmation of the Roll.

Sincerely,

Melissa A. Coatta, P.E.
City Engineer

Funds Report				
	Available:	$395.51	PBP Account Number:	35884980
	Used:	$41,339.49	Indicia Number:	0008029208
	Total Pieces:	56566	Meter Number:	8029208
	Control Sum:	$41,735.00	Meter Name:	
	Resettable Piece Count:	53	Printed:	JUN 04 2024 11:38 AM
	Piece Count Value:	$33.92		

8A

GREEN THUMBS

Keeping it local: Some tips for a tidy native-plant garden

By Jessica Damiano
The Associated Press

For decades, native plants were relegated to the "weed" section of many American gardeners' minds. Most nurseries didn't stock them. But that's slowly changing.

Native plants provide food and shelter for bees, butterflies, birds and other beneficial critters. They effortlessly grow healthier and stronger than exotic species, seldom need fertilizers or other amendments, and generally require little or no supplemental water once established. They've grown for hundreds or thousands of years just fine without us, evolving along with native insects, which recognize them as food.

So, why don't more people plant them?

I'll tell you one reason why: Unless carefully selected, the plants in a native garden can get messy, a look that some people embrace but others do not. It's one thing if you're growing a meadow, but you might want things neater in a small urban garden or in a suburban community with a homeowners association.

But that's on the gardener, not the plants, because it's absolutely possible to have a structured and beautiful native garden.

'Pick the right plant for the right place'

This old mantra emphasizes the importance of considering sunlight exposure, water accessibility and soil pH levels when selecting plants. Plant habit — its shape and size — also should be front of mind.

Familiarize yourself with the mature sizes of your fledgling plants when deciding where to place them. Don't, for instance, plant tall natives along a walkway, where they may grow to block access or flop over by mid-season, especially after rainfall.

Place taller plants and those more likely to lean at the back of a border, with shorter, tighter ones in front to help hold them in place and keep edges tidier. For beds that can be viewed from all sides, place the taller plants in the center.

Avoid planting one-offs. Planting clusters of the same species or color will make the garden appear cohesive.

Controlling spread

Because native plants aren't sterile, as many hybridized and exotic species have been bred to be, some spread readily by dropping seeds after they bloom. Others spread via underground runners, sending up new plants as they travel across the bed.

This does not mean they are "invasive," a term used to describe aggressive exotic plants that spread to outcompete native species. In fact, it's a desirable trait when aiming to fill a meadow with native plants, just perhaps less so when attempting to appease your HOA.

The solution lies in research. Look for plants with "clumping" or "mounding" habits that will stay put, and avoid those described as "runners" or "fast spreaders."

Asclepias tuberosa (butterfly weed), for instance, will not move or migrate. Its cousin, Asclepias syriaca (common milkweed), can be aggressive, weedy and difficult to remove. Both plants are important food sources for monarch butterfly caterpillars and considered beneficial to the ecosystem. But one might be better for your garden than the other.

If plants reseed where you don't want them, remove them and plant them elsewhere (free plants!) or trade them with a friend.

Dig up and divide plants every three years to prevent crowding. And if your natives threaten to become unruly, mow them down before they set seeds at the end of the season.

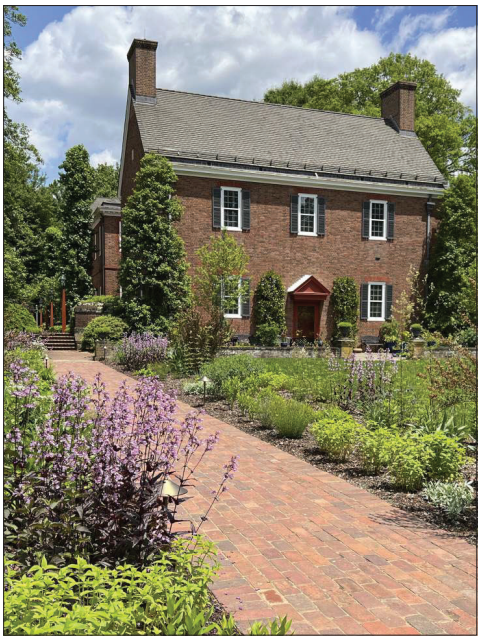
Don't simply scatter wildflower seeds and expect them not to grow wild. They will, which makes them perfect for a dedicated wildflower bed or a hilly slope but perhaps less than perfect elsewhere.

The carpet around them

Consider native grasses, sedges, groundcovers and clover as substitutes for common turf grasses, which rely on ground-polluting amendments, pollinator-killing pesticides and regular mowing while contributing little to the ecosystem.

If necessary, keep just a small lawn border to define the space (and appease your neighbors), and keep beds and borders neatly edged.

Include native shrubs in your design to retain structure year-round. Statues, arbors, benches and birdhouses also add visual interest.



PHOTOS BY MELISSA STARKEY — MT. CUBA CENTER VIA AP

This undated photo provided by Mt. Cuba Center shows the Hockessin, Del., botanical garden's formal South Garden, planted entirely with native plants and cultivars of native plants.

MICHIGAN INDEPENDENT CITIZENS REDISTRICTING COMMISSION

Voting districts drawn a new way—by the people, for the people

The mission of the Michigan Independent Citizens Redistricting Commission (MICRC) is to make democracy in Michigan work better by drawing new boundaries for election districts.

Redistricting means drawing fair maps that decide which areas and groups are represented by the people we elect to office.

Drawing fair district maps directly affects who is working for us and what happens in our communities.

In drawing new lines, the Commission uses specific criteria including population, geography, diversity, partisan fairness, and community cohesion.

Telling Commissioners what you think about the maps is how your interests get represented.

Voters have at least three chances to show up and speak up about which Senate district map works best for their community of interest.

Find meeting schedules and submit comments at www.Michigan.gov/MICRC or call 1-866-627-3247 (866-MAP-FAIR) for information.

Tuesday, June 11
10:00 a.m.-12:30 p.m. 1:30-3:00 p.m., and 4:00-7:00 p.m.
Detroit Cass Technical High School
2501 2nd Ave.
Detroit, MI 48201

Wednesday, June 12
10:00 a.m.-12:30 p.m. 1:30-3:00 p.m., and 4:00-7:00 p.m.
Martin Luther King High School
3200 E. Lafayette St.
Detroit, MI 48207

Thursday, June 13
10:00 a.m.-12:30 p.m. 1:30-3:00 p.m., and 4:00-7:00 p.m.
Renaissance High School
6565 W. Outer Dr.
Detroit, MI 48235

NOTICE OF PUBLIC HEARING

BIRMINGHAM CITY COMMISSION

PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL

Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, June 24, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Project Location:	Arlington, Shirley, Brandon: 1935202033 218 Arlington 1935227006 381 Shirley 1935202034 222 Arlington 1935227008 421 Arlington 1935202035 280 Arlington 1935227009 445 Arlington 1935202036 316 Arlington 1935227010 463 Arlington 1935202039 414 Arlington 1935227011 487 Arlington 1935202040 432 Arlington 1935227012 503 Shirley 1935202041 444 Arlington 1935227013 585 Shirley 1935202042 500 Arlington 1935227034 680 Linden 1935202043 550 Arlington 1935227035 619 Shirley 1935202044 600 Arlington 1935227036 663 Shirley 1935202045 700 Arlington 1935227037 200 Linden 1935202046 730 Arlington 1935276001 503 Arlington 1935202047 776 Arlington 1935276002 577 Arlington 1935202048 800 Arlington 1935276003 645 Arlington 1935202049 860 Arlington 1935276006 779 Arlington 1935202050 898 Arlington 1935276007 843 Arlington 1935202051 924 Arlington 1935276008 881 Arlington 1935202052 968 Arlington 1935276009 945 Arlington 1935202053 992 Arlington 1935276010 975 Arlington 1935202055 1420 W. Lincoln 1935276011 1057 Arlington 1935202068 400 Arlington 1935276012 550 Shirley 1935202069 1589 W Maple 1935276013 640 Shirley 1935226001 117 Arlington 1935276014 708 Shirley 1935226002 175 Arlington 1935276015 770 Shirley 1935226003 243 Arlington 1935276016 822 Shirley 1935226004 269 Arlington 1935276017 880 Shirley 1935226006 345 Arlington 1935276018 914 Shirley 1935226009 100 Shirley 1935276022 1000 Shirley 1935226010 188 Shirley 1935276023 737 Arlington 1935226011 226 Shirley 1935276024 970 Shirley 1935226012 252 Shirley 1935277001 735 Shirley 1935226013 288 Shirley 1935277002 789 Shirley 1935226014 300 Shirley 1935277003 811 Shirley 1935226016 377 Arlington 1935277004 855 Shirley 1935226017 350 Shirley 1935277005 905 Shirley 1935226018 309 Arlington 1935277006 955 Shirley 1935227019 327 Arlington 1935277034 City Owned Property 1935227004 345 Shirley 1935277048 Linden Park 1935227005 361 Shirley 1935277049 City Owned Property
Nature of Improvement:	The City will reconstruct the unimproved streets to improved roads consisting of new concrete curb and gutter, an engineered aggregate base, and asphalt pavement with no sidewalks per the City Commission resolution from the February 5, 2024 meeting.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248) 530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/9/2024 & 6/16/2024
Approved minutes may be reviewed at:	City Clerk's Office or www.bhamgov.org/commissionagendas

Should you have any statement regarding the above, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**

You or your agent may appear at the hearings to express your views; however, if you fail to protest either in person or by letter received on or before the date of the hearing, you cannot appeal the amount of the special assessment to the Michigan Tax Tribunal. Mail any correspondence to: City Clerk, P.O. Box 3001, Birmingham, MI 48012.
The property owner may file a written appeal of the special assessment with the State Tax Tribunal within 30 days after the confirmation of the special assessment roll if that special assessment was protested at the hearing held for the purpose of confirming the roll.
All special assessments, including installment payments, shall, from the date of the confirmation thereof, constitute a lien on the respective lots or parcels assessed, and until paid shall be charged against the respective owners of the lots or parcels assessed.

Persons with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk's Office at 248.530.1880 (voice) or 248.644.3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.

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Nature of Improvement:	The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project. This will include the replacement of all sewer laterals that are 50 years of age or older, less than 6-inch diameter, or an unsuitable material. Water services less than the City minimum size of 1-inch diameter, are 60 years of age or older, or an unsuitable material will also be replaced.
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Roads

FROM PAGE 1

ical will to use the proven safety tools that exist," said Leah Shahum, founder of Vision Zero Network, a nonprofit organization advancing Vision Zero in communities across the country.

Still a crisis

The need for safer roads took on urgency during the COVID pandemic. Fatalities rose even as lockdown mandates emptied streets. In 2022, more than 42,500 people died on American roads, and at least 7,522 pedestrians were fatally struck — the highest tally of pedestrian deaths in more than four decades.

Experts cite several reasons for the decline in road safety. During the lockdowns, reckless driving increased while traffic enforcement declined. SUVs and trucks have become larger and heavier, thus deadlier when they hit a pedestrian. Other factors persist as streets remain wide to accommodate vehicles, and in some states speed limits have gradually increased.

Early estimates of motor vehicle fatalities show a slight decrease from 2022 to 2023, but pedestrian fatalities are still notably above pre-pandemic numbers.

"It's an encouraging start, but the numbers still constitute a crisis," Transportation Secretary Pete Buttigieg wrote in February of roadway deaths.

The Biden administration has directed $15.6 billion to road safety until 2026 and $5 billion in local grants to prevent roadway deaths and injuries. Under the U.S. Department of Transportation's new "vulnerable road user" rule, states with 15% or more deaths involving pedestrians, bicyclists, or motorcyclists compared with all road deaths must match federal dollars in their safety improvement spending.

Road safety advocates argue the federal government missed an opportunity to eliminate outdated standards for setting speed limits when it revised traffic guidelines last year. The agency could have eliminated guidance recommending setting speed limits at or below how fast 85% of drivers travel on uncongested roads. Critics contend that what's known as the 85th percentile rule encourages traffic engineers to set speed limits at levels unsafe for pedestrians.

But the Federal Highway Administration wrote in a statement that while the 85th percentile is the typical method, engineers rarely rely solely on this rule. It also noted that states and some local agencies have their own criteria for setting speed limits.

In response, grassroots efforts to curtail speeding have sprouted across communities. In April, Michigan passed legislation granting local governments authority to round down when setting speed limits.

And after four years of lobbying, New York state passed Sammy's Law, named after 12-year-old Sammy Cohen Eckstein, who was killed by a driver in Brooklyn in 2013. The law, which will take effect in June, allows New York City to lower its speed limits to 20 mph in designated areas.

"With this legislation, I hope we can learn more children's names because of their accomplishments, their personalities, and their spirit — not their final moments," said Sammy's mother, Amy Cohen.

Push for pedestrian safety

Advocates would also like the federal government to factor in pedestrian safety on the five-star vehicle safety rating scale. However, the National Highway Traffic Safety Administration has proposed a separate pass/fail test that would be posted only on the agency's website, not on labels consumers would see at the dealership.

Automakers like BMW questioned the effectiveness of a program testing pedestrian protections in vehicles arguing that in European countries that adopted such a regulation, it's not been clear whether it led to fewer deaths and injuries. According to the campaign finance site Open Secrets, automakers spent about $49 million lobbying in 2023 compared with $2.2 million spent by advocates for highway and auto safety.

"The federal government has the biggest punch when it comes to requiring improved vehicle safety design," said Wiener, the California state lawmaker.

Although Wiener modified his proposal to restrict excessive speeding, he has advanced companion legislation that would require Caltrans, the state transportation agency, to make improvements such as adding crosswalks and curb extensions on state-owned surface streets to better serve pedestrians, cyclists, and transit users.

When that bill was heard in a committee, opponents, including engineering firms and contractors, cautioned it would remove flexibility and hamper the state's ability to deliver a safe and efficient transportation system. Lawmakers have until Aug. 31 to act on his bills.

CITY OF FARMINGTON HILLS
SUMMARY OF PROCEEDINGS
CITY COUNCIL MEETING
JUNE 10, 2024

The meeting was called to order by Mayor Rich at 7:33p.m.
Council Present: Aldred, Boleware, Bridges, Bruce, Dwyer, Knol, and Rich
Council Absent: None
Others Present: City Manager Mekjian, Assistant City Manager Mondora, City Clerk Lindahl, Directors Aranowski, Harvey, Rushlow, Schnackel, and Skrobola, Police Chief King, Fire Chief Unruh and City Attorney Joppich

Received:
-Attorney Report
Recognized
-Proclamation recognizing June 2024 as LGBTQ Pride Month
-Proclamation recognizing June 19, 2024 as Juneteenth
Approved/Accepted:
-2024/2025 Fiscal Year Budget and 2024 Property Tax Millage Rates
-Gravel Road Conversion to Hard Surface Pavement for Westfield Street
-Resolution to submit a ballot proposal to the voters for the amendment of City Charter Section 2.05 regarding terms of office of City Council Members and Mayor
-Resolution regarding a Charter Amendment for renewal of the Public Streets and Roads Millage
-Resolutions establishing water and sewer rates for fiscal year 2024/2025
-Appointments to various boards and commissions
-Setting the fee for marriages performed by the Mayor
-Resolution for acceptance of the Greening Street Right-of-Way to the City's local street system
-Amendments to the Emergency Preparedness Commission Bylaws and Rules of Procedures
-Annual bid waivers and awards for fiscal year 2024/2025
-DTE Energy Line Extension Agreement
-Easements to DTE Electric Company on the City Hall Campus property and Fire Station #4
-Designation of City depositories
-Requests for employment under Section 10.01A of the City Charter for Seasonal Golf Laborer, Building Assistant-The Hawk, and Archery Instructor
-City Council meeting minutes from May 7, May 13, May 15, and May 16, 2024
Awarded Contract/Bid/Proposal/Purchase to:
-JG Morris Jr. Inc for the City Hall Security and Safety Enhancements Project in the amount of $75,500
-DANICA Service Group LLC for the shade structure project at The Hawk in an amount not to exceed $30,921
-Havener Tech for the 2024 As Needed Catch Basin Stabilization Services in the amount not-to-exceed the annual budgeted amount, with extensions
-Allied, Inc. for the replacement and installation of an Inground Truck Lift at the DPW garage in the amount of $205,282
-Deere & Company for the purchase of two John Deere 2400 Triplexes for Farmington Hills Golf Club maintenance in the amount of $87,713.78

Theresa Rich, Mayor
Carly Lindahl, City Clerk

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Bone

FROM PAGE 1

This makes it incumbent on women, in particular, to raise the question if their doctors don't, she adds. "We have a consensus that all women over age 65 should be screened, but we're not getting most of them, not by far."

Health and Human Services recommends that women 65 and older schedule a bone density test, known as a DXA, or DEXA, for dual-energy X-ray absorptiometry scan — a painless procedure that's safer than a standard X-ray. Women 64 and younger who have gone through menopause should ask their doctors if they need one, particularly if they have clinical risk factors, including smoking, drinking more than three drinks a day, and taking prednisone or other glucocorticoid medications.

Many factors contribute to the low rates of testing, not least of which is garden-variety denial of aging. "For many patients, there's a bit of 'That's not me,'" Singer says. "Osteoporosis is your grandmother's disease, and I'm not that frail old lady."

Osteoporosis is more common in older people, affecting an estimated 12.3 million Americans over 50 in 2020. Yet as many as 47 million other Americans of all ages are on the precipice of osteoporosis, with diagnosable osteopenia (low bone mass). Women outnumber men 4 to 1 for reasons that are largely hormonal — women lose up to 20% of bone density up to seven years after menopause, when bone-protecting estrogen levels decline. Women also suffer more than 70% of the related fractures.

But men, who tend to wait even longer to get scanned and treated, have a higher death rate after a hip fracture.

Preventing osteoporosis should begin many years before such problems might occur, experts say.

"We should start paying attention to bone health with kids and teens, when they have their peak bone mass," Singer says. That includes consuming sufficient calcium — 1,200 milligrams in two or three doses spread out through the day for women over 50 — and up to 1,000 IU of vitamin D in your diet or supplements.

"In the older population in particular, especially the frail who get the hip fractures, you want to be sure they are getting sufficient protein intake as well," Shoback says.

Fortunately, osteoporosis is treatable even in old age, with lifestyle changes and a wide array of medications.

Weight-bearing exercises, forcing your body to work against gravity, can help strengthen bones. This might include walking, climbing stairs or playing pickleball (or tennis). Higher-impact exercise, such as a Zumba class, may be the most effective. Muscle-strengthening activities, such as lifting weights, and balance exercises, including tai chi and yoga, can reduce the risk of fractures from falls.

Some doctors prescribe hormone therapy to replace waning estrogen, strengthen bones and reduce fractures in younger postmenopausal women. The downside is increased risks of strokes and heart attacks for women 60 or older or 10 years after menopause.

More commonly, for more than two decades, doctors have prescribed a class of drugs called bisphosphonates, with brand names that include Fosamax, Boniva and Reclast. Bisphosphonates and denosumab (Prolia), a monoclonal antibody, are known as "antiresorptives" because they target bone cells that break down and reabsorb bone tissue. Some can be taken orally every day, every week or every month; others are given intravenously, every three months.

Bisphosphonates can cause stomach upset, heartburn, and in very rare cases, jawbone damage and thigh fractures. Doctors usually recommend that patients who have taken these drugs for three to five years discontinue them for up to two years, and then resume if there are no signs of problems. These medications can start reducing the risk of fractures in as soon as six months.

Another class of medications builds bones instead of slowing their destruction. These include abaloparatide (Tymlos) and teriparatide (Forteo), both of which resemble the parathyroid hormone involved in regulating the metabolism of calcium. Both require daily injections (usually self-administered) for up to two years.

One new osteoporosis medication is romosozumab-aqqg (Evenity), a monoclonal antibody approved by the Food and Drug Administration in 2019. The medication is designed to help both build bone and reduce bone loss. It requires two injections every four weeks for 12 sessions (over 48 weeks), usually at a doctor's office. Amgen, the company that makes Evenity, warns it can have serious side effects, including increased risk of heart attack, stroke or death from a cardiovascular (heart or blood vessel) problem.

The benefits of all the bone-builders dissipate within about two years.

In a recent change, some osteoporosis specialists now recommend that people with low bone density or a recent fracture begin treatment with one of the bone-building drugs and follow up with an antiresorptive medication to try to maintain their benefits.

But bone-building drugs are expensive, and some insurance plans won't reimburse unless a patient has already tried other medications.

At that point, however, the bisphosphonates may at least temporarily blunt the effect of the bone-builders.

Scientists around the world are working on new medications and treatment approaches for osteoporosis. Some are studying stem-cell therapies that may hasten repair of fractures. Others are looking into drugs that may clear out senescent (age-challenged) cells to help new bones form.

Conditions

FROM PAGE 1

Check-in with your health care provider

Speak with your primary care physician or specialist about your travel plans and any special considerations related to your health. He or she can offer guidance on any restrictions or precautions you should keep in mind. Carry a list of all medications, including dosages and pharmacy information. Also consider carrying a copy of key medical records and a list of phone numbers, including your doctors and emergency contacts.

Manage your medications

Ensure medications are clearly labeled and that you've packed enough to last the entire trip. If you're traveling across time zones, enlist your health care provider to help adjust medication schedules. Some medications require refrigeration; research how to pack them appropriately for airport security and make sure you'll have a refrigerator in your lodging.

Plan for transportation

Whether you're traveling by plane, bus, train, cruise ship or other means, it's paramount to plan ahead for special medical equipment. For example, if you use a wheelchair, walker or other assistance for getting around, you may need to check in with the travel company to find out how to properly transport your devices.

Master the airport

During this especially busy travel season, planning ahead can make the airport experience easier. If you have a pacemaker or implantable cardioverter-defibrillator, you may need to go through a special security screening. Walking through a crowded terminal can take its toll, so consider requesting a wheelchair or courtesy cart to get to your gate when booking your ticket.

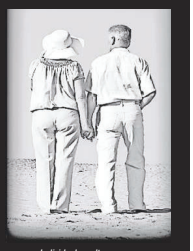
Long flights may increase your risk for blood clots, including deep vein thrombosis and pulmonary embolism. Consider wearing compression socks and walk around the cabin while it's safe and allowed to help improve your circulation.

Learn more about healthy traveling at heart.org

Dads

FROM PAGE 1

underscores the profound impact of fatherly engagement, especially considering that over a quarter of children in the United States live apart from a parent.

LOCAL DOCTOR SAYS ...
YOUR SEX LIFE IS NOT OVER!
DETROIT • The doctors at The Male Method have over 200 custom blends of prescription medication so they can treat almost any man - regardless of his age or medical history - for Erectile Dysfunction and PE. Local physicians at the clinic are now offering an in-office trial-dose of medication. If patients do not get a positive reaction to the medication in the office on their first visit there's no charge for that medication or visit, GUARANTEED. If you've been to several doctors, tried all the pills, and nothing works, you owe it to your- self and your partner to call today for more information and to make an appointment.

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Great reorder specials for existing patients!
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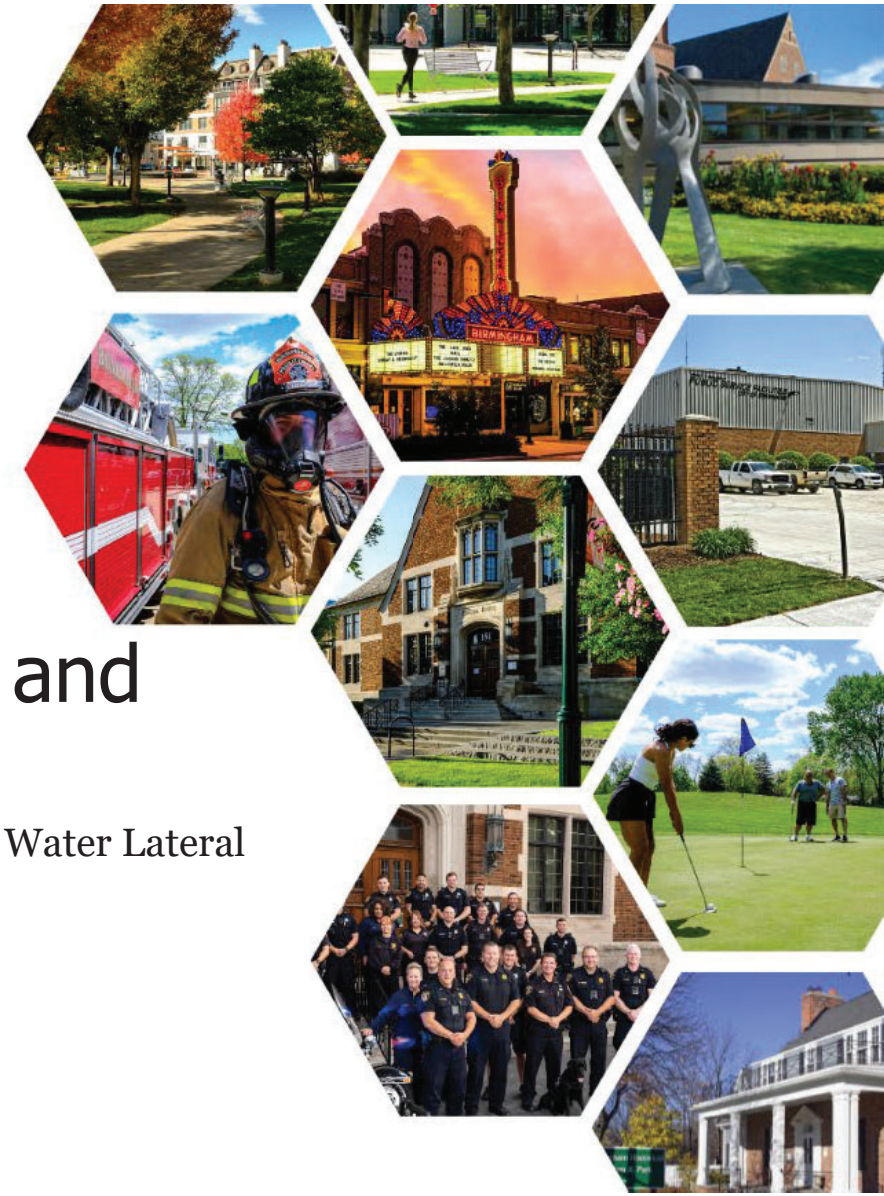
GCH136775-02

BIRMINGHAM
A WALKABLE CITY



Arlington, Shirley, and Brandon Project

Hearing of Necessity for Sewer and Water Lateral Special Assessment District (SAD)

Engineering Department

Date: June 24, 2024

8A

8D

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

➢Overview

- Limits of Arlington Street and Shirley Road are W. Lincoln Avenue to W. Maple Road, and Brandon Street Paving limits are Shirley Road to Linden Road
- Project includes:
  - New Water Main: Arlington Street and Shirley Road
  - Sewer Improvements: Arlington Street and Shirley Road
  - Installation of aggregate base, asphalt pavement, and new concrete curb and gutter
- Special Assessment District (SAD) for Sewer and Water Laterals to be paid by the property owner at one hundred percent of the costs.

BIRMINGHAM
A WALKABLE CITY

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

- General Construction Information: Water

  Arlington Street:

  - Existing Water: 6” Cast Iron Pipe, installed 1927
  - Proposed Water: 8” Ductile Iron

  Shirley Road:

  - Water: 6” Cast Iron Pipe, installed 1927
  - Proposed Water: 8” Ductile Iron

  Brandon Street: No existing or proposed watermain

BIRMINGHAM
A WALKABLE CITY

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

- General Construction Information: Water

  Arlington Street and Shirley Road Water Main

  - Almost 100 years old
  - These streets experience at least one watermain break a year, and certain years several water main breaks
  - After completing a water main break repair, DPS has experienced an immediate additional water main break nearby
  - Fire Department concern of fire flow on some hydrants on these streets

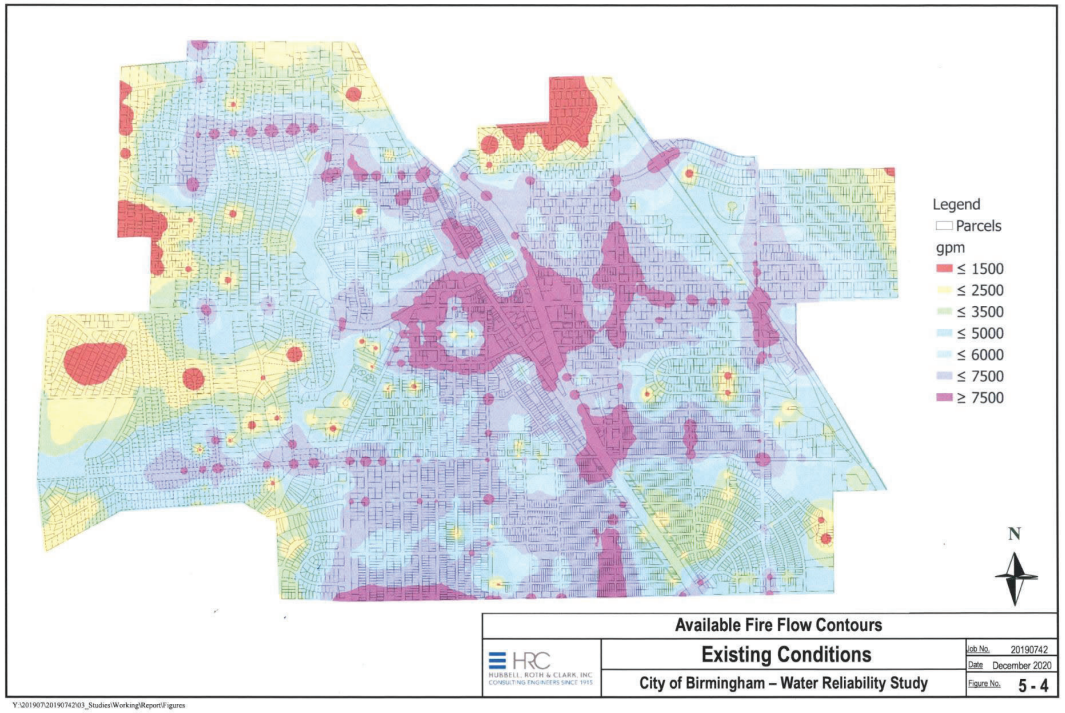
BIRMINGHAM
A WALKABLE CITY

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

Existing 6” Water Main on Pierce Street, Installed 1922

BIRMINGHAM
A WALKABLE CITY

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District



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Existing Fire Flows Map

8A

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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

- General Construction Information: Sewer

  Arlington Street:

  - Existing Sewer:
    - *South Half: 10"- 15" Sewer drains to Lincoln, installed 1927*
    - *North Half: 10"- 12" Sewer drains to Shirley, installed 1927*

      15" – 24" Relief sewer, installed 1968
  - Proposed Sewer: 12" -24" Storm Sewer and Point Repairs on Combined Sewer

  Shirley Road:

  - Existing Sewer:
    - *10" - 24" Sewer drains towards Lincoln, installed 1927*
    - *18" - 27" Relief sewer, installed 1968*
  - Proposed Sewer: 12" Storm Sewer and 12"-18" Combined Sewer Repairs

- Brandon Street: No existing or proposed sewer

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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

➢General Construction Information: Sewer

Arlington Street and Shirley Road Sewer

- Portions of the sewer are almost 100 years old
- Certain sections of sewer are in need of open cut replacement due to the condition of the pipe and not being a candidate for sewer lining
- Existing catch basins are in poor condition and need replacement
- Some of the proposed storm sewer improvements will create a separated storm system on these streets

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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

➢Policy

- City policy: To protect the public investment being made with capital improvement projects in public roadways, as part of the project
  - Water Laterals:
    - Replace all water services that are 60 years of age or older, are less than one inch in diameter, or are constructed of an unsuitable material.
    - All unsuitable water services will be replaced with a new 1” diameter service, or be replaced to match the existing diameter if greater than 1”

BIRMINGHAM
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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

➢Policy

- City policy: To protect the public investment being made with capital improvement projects in public roadways, as part of the project
  - Sewer Laterals:
    - Replacement of all sewer laterals that are 50 years of age or older, are less than 6” diameter, or are constructed of an unsuitable material.
    - All unsuitable sewer laterals will be replaced with 6" schedule 40 PVC or match existing size if larger than 6”.

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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

- SAD:
  - Water Lateral: 100% cost of the property owner
  - Sewer Lateral : 100% cost of the property owner
  - Cost: The cost can be paid back in either a lump sum or over up to a 10-year period with interest. The interest rate will be confirmed at the Confirmation of Roll.

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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

- SAD:
  - Received Bids for Project on May 23, 2024
  - Water:
    - $70 per lineal foot for 1” diameter water service
    - $75 per lineal foot for 1.5” diameter water service
    - $90 per lineal foot for 2” diameter water service
  - Sewer:
    - $200.00 per lineal foot for 6” sewer pipe
    - $250.00 per lineal foot for 8” sewer pipe

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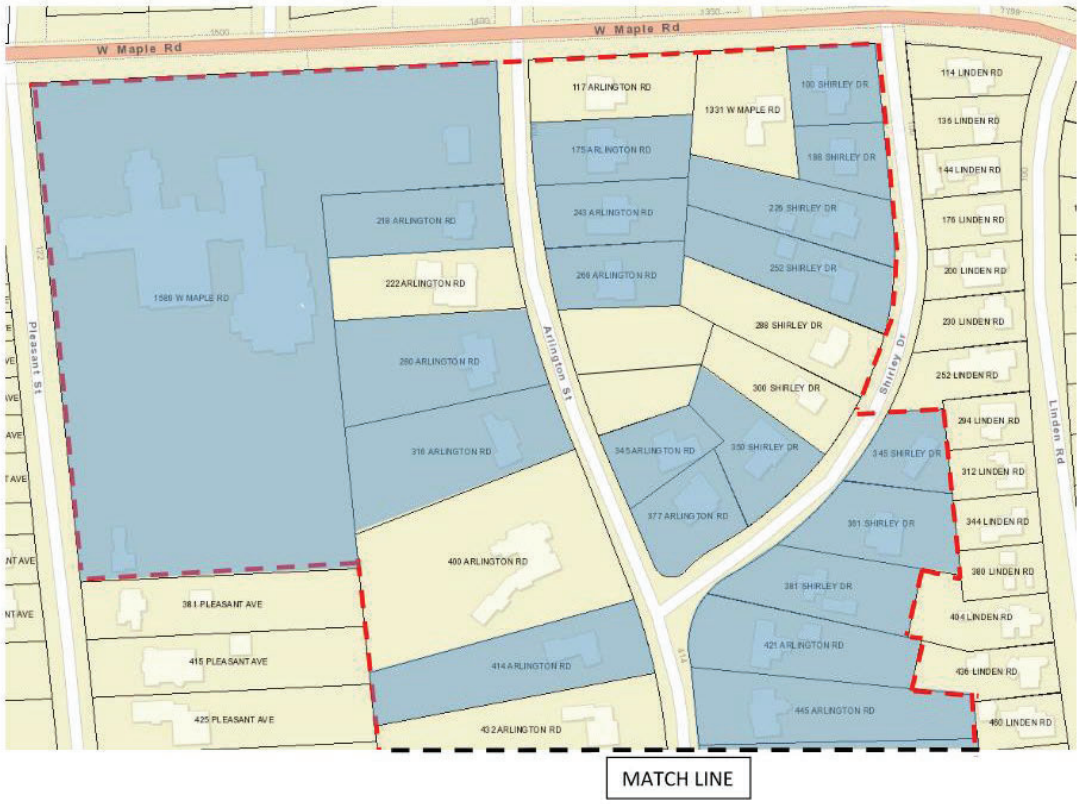
Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District



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Sewer and Water Lateral SAD Project Limits

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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

Limits of Projects

Properties Within Sewer and Water Lateral SAD

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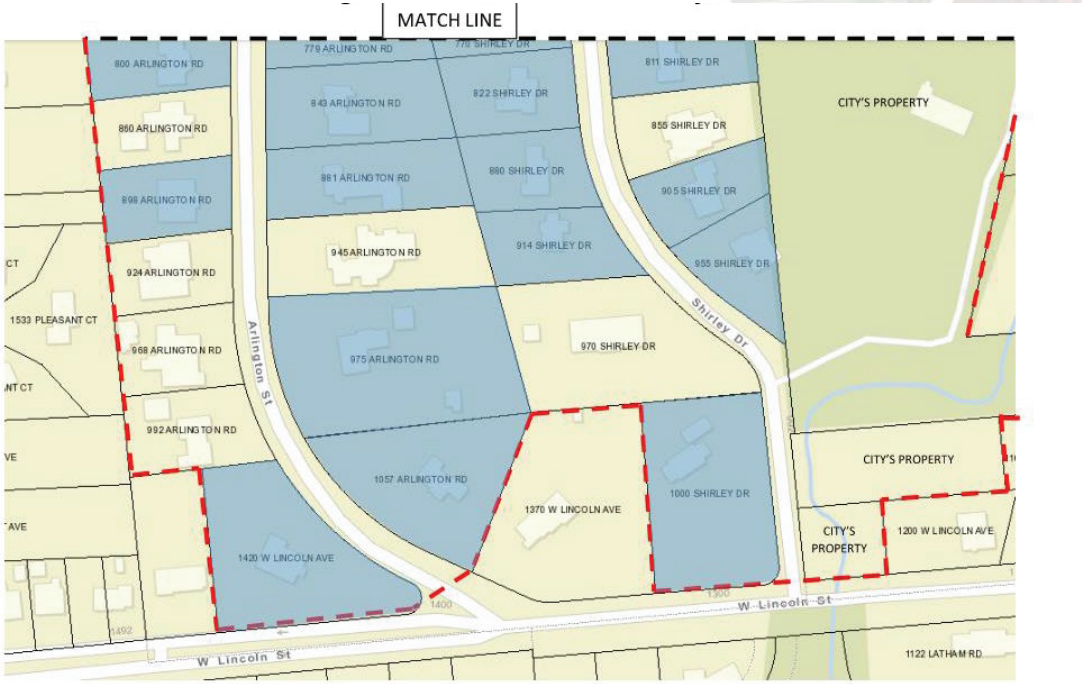
Sewer and Water Lateral SAD Project Limits

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District



Limits of Projects

Properties Within Sewer and Water Lateral SAD

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Sewer and Water Lateral SAD Project Limits

8D

Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

➢PROPERTIES LOCATED IN SEWER LATERAL SAD:

Sidwell Number	Street Address
19-35-202-033	218 Arlington
19-35-202-035	280 Arlington
19-35-202-036	316 Arlington
19-35-202-039	414 Arlington
19-35-202-042	500 Arlington
19-35-202-043	550 Arlington
19-35-202-044	600 Arlington
19-35-202-045	700 Arlington
19-35-202-046	730 Arlington
19-35-202-047	776 Arlington
19-35-202-048	800 Arlington
19-35-202-050	898 Arlington
19-35-202-055	1420 W Lincoln
19-35-202-069	1589 W. Maple
19-35-226-002	175 Arlington
19-35-226-003	243 Arlington
19-35-226-004	269 Arlington

Sidwell Number	Street Address
19-35-226-006	345 Arlington
19-35-226-009	100 Shirley
19-35-226-010	188 Shirley
19-35-226-011	226 Shirley
19-35-226-012	252 Shirley
19-35-226-016	377 Arlington
19-35-226-017	350 Shirley
19-35-227-004	345 Shirley
19-35-227-005	361 Shirley
19-35-227-006	381 Shirley
19-35-227-008	421 Arlington
19-35-227-009	445 Arlington
19-35-227-010	463 Arlington
19-35-227-011	487 Arlington
19-35-227-013	585 Shirley
19-35-227-035	619 Shirley
19-35-227-036	663 Shirley

Sidwell Number	Street Address
19-35-276-001	503 Arlington
19-35-276-002	577 Arlington
19-35-276-003	645 Arlington
19-35-276-006	779 Arlington
19-35-276-007	843 Arlington
19-35-276-008	881 Arlington
19-35-276-010	975 Arlington
19-35-276-011	1057 Arlington
19-35-276-013	640 Shirley
19-35-276-015	770 Shirley
19-35-276-016	822 Shirley
19-35-276-017	880 Shirley
19-35-276-018	914 Shirley
19-35-276-022	1000 Shirley
19-35-276-023	737 Arlington
19-35-277-003	811 Shirley
19-35-277-005	905 Shirley
19-35-277-006	955 Shirley

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Sewer and Water Lateral SAD
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Arlington, Shirley, and Brandon Project
Sewer and Water Lateral Special Assessment District

➢Summary

- The Engineering Department recommends the City Commission declare necessity and approve the SAD for Arlington, Shirley, and Brandon Project for sewer and water laterals
- Should the Commission approve the SAD, a public hearing for Confirmation of the Roll will be held on July 8, 2024

BIRMINGHAM
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Mya Brown <mbrown@bhamgov.org>

Fwd: July 8 Commission Meeting Agenda

1 message

Jana Ecker <Jecker@bhamgov.org> Wed, Jul 3, 2024 at 10:27 AM
To: Mya Brown <mbrown@bhamgov.org>

Jana L. Ecker
City Manager
Birmingham, MI
(248) 530-1811

---------- Forwarded message ---------
From: **James Mirro** <jmirro@intromarketing.com>
Date: Wed, Jul 3, 2024 at 8:42 AM
Subject: July 8 Commission Meeting Agenda
To: <emclain@bhamgov.org>, <kschafer@bhamgov.com>, <along@bhamgov.org>, <tlonge@bhamgov.org>, <ahaig@bhamgov.org>, <bhost@bhamgov.org>
Cc: Jana Ecker <Jecker@bhamgov.org>, <mkucharek@bhlaw.us.com>, <abingham@bhamgov.org>, <cballer@bhamgov.org>

Dear Commissioners,

For planning purposes, I am forwarding to you the following court documents which impact the Arlington/Shirley project as discussed at the last Commission Meeting/Public Hearing of Necessity on 6-24-24 and as scheduled for a Confirmation Approval at the 7-8-24 Commission Meeting.

Court Complaint/Summons: On 6-28-24, the Complaint shown in the first attachment was filed in the 6th Circuit Court of Oakland County. This resulted in a Court Summons (2nd Attachment) served on the City on 7-1-24 both in person and by certified mail (3rd Attachment).

Motion for TRO/PI: On 7-2-24, a motion was filed for a Temporary Restraining Order and Preliminary Injunction which includes 21 exhibits, all of which you have received during the past 7 months and are shown again in the 4th attachment.

Hearing Date: On 7-2-24, I met with one of Judge Anderson's law clerks and, based on the Judge's case load/July 4th holiday, it is not likely that she will set a first hearing date on this case until after the 7-8-24 Commission Meeting. Because of this, the Commission's plan to approve the Arlington/Shirley project as now written and award the project on 7-9-24 cannot happen without the City risking a contempt of court citation. Because today is the deadline for agenda changes, please have the Arlington/Shirley Hearing of Confirmation/contract award removed from the 7-8-24 meeting agenda, but maintain discussion about the project for the reason shown below.

Settlement Offer: The majority of Arlington/Shirley property owners are open to settling this matter out of court if the City is willing to treat the project like the Westwood project which has been the essence of all petitions submitted since last year. This means not removing curbs/gutters/driveway approaches and use of some type of asphalt pavement at a cost close to what Westwood property owners experienced. If we can agree on this compromise plan during the next meeting

by a motion/vote from a majority of Commissioners, then this Complaint/TRO Request will be withdrawn and it is possible that the street project can be completed this year as currently planned. Toward this end, I am willing to meet with anyone on the City Staff or any Commissioners to work cooperatively toward this goal.

Happy 4th of July and please contact me if you have any questions. Thank you.

Jim Mirro, Resident Agent

Save Our Streets & Trees

A MI Nonprofit Foundation

248-420-5113

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4 attachments

Court Complaint & Application for TRO..pdf
511K

Court Summons..pdf
629K

Court Proof of Service..pdf
522K

Court Motion For TRO and Preliminary Injunction..pdf
2830K

JUL 01 2024
4:33 PM
RECEIVED
FILED Received for Filing Oakland County Clerk 6/28/2024 4:25 PM
CLERK

STATE OF MICHIGAN
IN THE 6TH CIRCUIT COURT OF OAKLAND COUNTY

Save Our Streets & Trees

Plaintiff

V.

City of Birmingham, MI

Defendant

2024-208305-CZ
JUDGE MARTHA D. ANDERSON

This case has been designated as an eFiling case, for more information please visit www.oakgov.com/efiling.

Plaintiff, Save Our Streets & Trees, brings forth the following Complaint and TRO Application.

Plaintiff is a nonprofit foundation incorporated in the State of Michigan, ID #803145138, with a resident agent address of 737 Arlington Street, Birmingham, MI 48009.

The Defendant is an incorporated City in Oakland County, 151 Martin Street, Birmingham, MI 48009.

COMPLAINT

On 12-14-23, a majority of property owners delivered a petition to the City of Birmingham opposing the Arlington & Shirley sewer/water/street upgrade project, followed by a second petition delivered 5-6-24.

On 6-3-24, the City of Birmingham passed a resolution to set a Public Hearing of Necessity for a sewer/water/street upgrade project for Arlington & Shirley Streets to be held on 6-24-24.

On 6-4-24, the City conducted an information meeting for Arlington & Shirley property owners to provide proposed Special Assessment District (SAD) amounts for adjoining parcels to pay for the project.

On 6-21-24, a majority of property owners delivered a third petition to the City as is their right under Michigan Public Act #246 to protest: 1) average assessments of $24,000 that are more than 3 times higher than the same type of street upgraded one year ago (Westwood) and 18 times higher than the expected property value increase after completion based on 3 realtor opinions; 2) removal of 6 trees and root damage to over 200 trees within 17' of the street and 3) damage to adjoining private property.

At the 6-24-24 Public Meeting of Necessity, the City ignored the last 2 petitions and set a date of 7-8-24 for a Public Hearing to Confirm the Assessment Roll, with plans to award the project contract on 7-9-24.

APPLICATION FOR TEMPORARY RESTRAINING ORDER

The Plaintiff requests the Court to issue a TRO to avoid irreparable harm from the City's plan to remove 6 mature trees and fatally disturb under-street tree roots of over 200 other mature trees bordering the two streets based on 5 arborist opinions, as well as damages to private property adjoining the streets.

Signed: James A Mirro Date: 6-28-24

James A. Mirro, Resident Agent, Save Our Streets & Trees

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JUL 01 2024 4:43 PM
RECEIVED
CLERK'S OFFICE
6/28/2024 4:25 PM
Oakland County Clerk
Received for Filing
FILED

Approved, SCAO

Original - Court
1st copy - Defendant

2nd copy - Plaintiff
3rd copy - Return

STATE OF MICHIGAN JUDICIAL DISTRICT JUDICIAL CIRCUIT COUNTY	SUMMONS	CASE NO. 2024-208305-CZ JUDGE MARTHA D. ANDERSON

Court address

Court telephone no.

Plaintiff's name, address, and telephone no.		Defendant's name, address, and telephone no.
Save Our Streets & Trees 737 Arlington Street Birmingham, MI 48009 248-420-5113	v	City of Birmingham 151 Martin Street Birmingham, MI 48009 248-530-1800
Plaintiff's attorney, bar no., address, and telephone no.		This case has been designated as an eFiling case, for more information please visit www.oakgov.com/efiling.

Instructions: Check the items below that apply to you and provide any required information. Submit this form to the court clerk along with your complaint and, if necessary, a case inventory addendum (MC 21). The summons section will be completed by the court clerk.

Domestic Relations Case

☐ There are no pending or resolved cases within the jurisdiction of the family division of the circuit court involving the family or family members of the person(s) who are the subject of the complaint.

☐ There is one or more pending or resolved cases within the jurisdiction of the family division of the circuit court involving the family or family members of the person(s) who are the subject of the complaint. I have separately filed a completed confidential case inventory (MC 21) listing those cases.

☐ It is unknown if there are pending or resolved cases within the jurisdiction of the family division of the circuit court involving the family or family members of the person(s) who are the subject of the complaint.

Civil Case

☐ This is a business case in which all or part of the action includes a business or commercial dispute under MCL 600.8035.

☐ MDHHS and a contracted health plan may have a right to recover expenses in this case. I certify that notice and a copy of the complaint will be provided to MDHHS and (if applicable) the contracted health plan in accordance with MCL 400.106(4).

☑ There is no other pending or resolved civil action arising out of the same transaction or occurrence as alleged in the complaint.

☐ A civil action between these parties or other parties arising out of the transaction or occurrence alleged in the complaint has been previously filed in ☐ this court, ☐ _____ Court, where it was given case number _____ and assigned to Judge _____

The action ☐ remains ☐ is no longer pending.

Summons section completed by court clerk.

SUMMONS

NOTICE TO THE DEFENDANT: In the name of the people of the State of Michigan you are notified:

1. You are being sued.
2. **YOU HAVE 21 DAYS** after receiving this summons and a copy of the complaint to **file a written answer with the court** and serve a copy on the other party **or take other lawful action with the court** (28 days if you were served by mail or you were served outside of Michigan).
3. If you do not answer or take other action within the time allowed, judgment may be entered against you for the relief demanded in the complaint.
4. If you require accommodations to use the court because of a disability or if you require a foreign language interpreter to help you fully participate in court proceedings, please contact the court immediately to make arrangements.

Issue date	Expiration date*	Court clerk
7/1/2024	09/30/2024	Lisa Brown

*This summons is invalid unless served on or before its expiration date. This document must be sealed by the seal of the court.

JUL 01 2024
4:33 PM

Summons (3/23)

Case No. 2024-208305-CZ

RECEIVED

CLERK'S OFFICE

PROOF OF SERVICE

TO PROCESS SERVER: You must serve the summons and complaint and file proof of service with the court clerk before the expiration date on the summons. If you are unable to complete service, you must return this original and all copies to the court clerk.

CERTIFICATE OF SERVICE / NONSERVICE

☑ I served ☑ personally ☑ by registered or certified mail, return receipt requested, and delivery restricted to the addressee (copy of return receipt attached) a copy of the summons and the complaint, together with the attachments listed below, on:

☐ I have attempted to serve a copy of the summons and complaint, together with the attachments listed below, and have been unable to complete service on:

Name	Date and time of service
CITY OF BIRMINGHAM, MI	7-1-24;
Place or address of service: 151 MARTIN STREET, BIRMINGHAM, MI 48009	
Attachments (if any)	

☐ I am a sheriff, deputy sheriff, bailiff, appointed court officer or attorney for a party.

☐ I am a legally competent adult who is not a party or an officer of a corporate party. I declare under the penalties of perjury that this certificate of service has been examined by me and that its contents are true to the best of my information, knowledge, and belief.

Service fee	Miles traveled	Fee	
$		$	
Incorrect address fee	Miles traveled	Fee	TOTAL FEE
$		$	$

James A. Mirro
Signature

JAMES A. MIRRO
Name (type or print)

ACKNOWLEDGMENT OF SERVICE

I acknowledge that I have received service of a copy of the summons and complaint, together with

_____ on _____.
Attachments (if any) Date and time

_____ on behalf of _____
Signature

_____
Name (type or print)

MCL 600.1910, MCR 2.104, MCR 2.105

8DE

JUL 01 2024
4:33 PM
RECEIVED
FILED Received for Filing Oakland County Clerk 6/28/2024 4:25 PM

STATE OF MICHIGAN
IN THE 6TH CIRCUIT COURT OF OAKLAND COUNTY

Save Our Streets & Trees

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V.

City of Birmingham, MI

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JUDGE MARTHA D. ANDERSON

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The Plaintiff requests the Court to issue a TRO to avoid irreparable harm from the City's plan to remove 6 mature trees and fatally disturb under-street tree roots of over 200 other mature trees bordering the two streets based on 5 arborist opinions, as well as damages to private property adjoining the streets.

Signed: _____ Date: 6-28-24

James A. Mirro, Resident Agent, Save Our Streets & Trees

8DE

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Treasury

DATE: July 1, 2024

TO: Jana L. Ecker, City Manager

FROM: Ryan Katz, Deputy Treasurer
Mark Gerber, Finance Director/Treasurer

SUBJECT: Confirmation of SAD Roll 910 Arlington, Shirley, and Brandon Street Project – Paving

---

INTRODUCTION:
A public Hearing of Confirmation of the Special Assessment Roll for the Arlington, Shirley, and Brandon Street Paving Project is being held on July 8, 2024. The special assessment will reimburse the City for improvements made. If the City Commission approves the roll, the property owners who benefit from these improvements will be billed for the cost of the improvements.

Comments during the hearing of confirmation are limited to those questions specifically addressing the assessment roll pursuant to Section 94-9 of the City Code.

BACKGROUND:
At the City Commission meeting on June 24, 2024, the City Commission determined the necessity of the Arlington, Shirley, and Brandon Street Paving Project and a Hearing of Confirmation of the Special Assessment Roll was set for July 8, 2024.

LEGAL REVIEW:
The City Attorney has reviewed the suggested resolution for compliance with City Code. The purpose of this hearing is to review and hear any objections to the Special Assessment Roll. The Special Assessment Roll is a listing of all of the properties to be assessed for the improvements to the property. Pursuant to the City Code at section 94-9, whenever a Special Assessment Roll shall be confirmed by the City Commission, it shall be final and conclusive.

FISCAL IMPACT:
If confirmed, the preliminary assessment roll would be $1,410,587.79. Once the project is completed and final costs are known, the roll will be adjusted to actual costs as provided by City Code. Property owners have ten (10) years to pay the special assessment.

SUSTAINABILITY:
The proposed road width is less sustainable due to the increased use of asphalt and other materials, increased maintenance costs and the increased speed of traffic on wide roads.

DESIGN CONSIDERATIONS:
The road design is consistent with the previous decision by the City Commission to maintain the existing road width and remove sidewalks from the proposed improvements.

PUBLIC COMMUNICATIONS:
Property owners were notified by mail of the public hearing dates. If the City Commission confirms the Special Assessment Roll, the Treasurer's office will notify the property owners in the Special Assessment District of the confirmation and the lien on their property.

SUMMARY:
The Treasurer's office recommends that the City Commission conduct the Hearing of Confirmation of Special Assessment District 910 and further to confirm the roll as attached to this report.

ATTACHMENTS:

- Proposed Special Assessment Roll
- Memorandum: Hearing of Necessity for Arlington, Shirley, and Brandon Street Paving Project SAD

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution confirming Special Assessment Roll 910 as follows:

WHEREAS, Special Assessment Roll, designated Roll No. 910, has been heretofore prepared for Collection; and

WHEREAS, notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property to be assessed; and

WHEREAS, the Commission has deemed it practicable to cause payment of the cost thereof to be made after the time of construction; and

WHEREAS, the Commission Resolution 06-470-24 provided it would meet this 8th day of July, 2024 for the sole purpose of reviewing the assessment roll; and

WHEREAS, at said hearing held this July 8, 2024, all those property owners or their representatives present have been given an opportunity to be heard specifically concerning costs appearing in said special assessment roll;

NOW, THEREFORE, BE IT RESOLVED, that Special Assessment Roll No. 910 be in all things ratified and confirmed, and that the City Clerk be and is hereby instructed to endorse said roll, showing the date of confirmation thereof, and to certify said assessment roll to the City Treasurer for collection at or near the time of construction of the improvement.

BE IT FURTHER RESOLVED, that the special assessment shall be payable in ten (10) payments as provided in Section 94-10 of the Code of the City of Birmingham, with an annual interest rate of nine and one half percent (9.50%) on all unpaid installments.

Sidwell Number	Street Address	Paving Assessment
19-35-202-033	218 Arlington	$14,594.35
19-35-202-034	222 Arlington	$15,276.82
19-35-202-035	280 Arlington	$17,573.46
19-35-202-036	316 Arlington	$17,628.46
19-35-202-039	414 Arlington	$17,814.09
19-35-202-040	432 Arlington	$17,897.59
19-35-202-041	444 Arlington	$38,050.36
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19-35-202-044	600 Arlington	$18,549.31
19-35-202-045	700 Arlington	$16,386.31
19-35-202-046	730 Arlington	$15,657.26
19-35-202-047	776 Arlington	$14,320.26
19-35-202-048	800 Arlington	$15,655.20
19-35-202-049	860 Arlington	$16,343.63
19-35-202-050	898 Arlington	$16,820.76
19-35-202-051	924 Arlington	$16,150.40
19-35-202-052	968 Arlington	$18,484.48
19-35-202-053	992 Arlington	$17,467.70
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19-35-202-068	400 Arlington	$38,106.60
19-35-202-069	1589 W. Maple	$27,503.50
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19-35-226-002	175 Arlington	$16,394.05
19-35-226-003	243 Arlington	$16,822.20
19-35-226-004	269 Arlington	$15,138.54
19-35-226-006	345 Arlington	$18,257.23
19-35-226-009	100 Shirley	$19,215.41
19-35-226-010	188 Shirley	$18,104.35
19-35-226-011	226 Shirley	$17,194.39
19-35-226-012	252 Shirley	$17,135.39
19-35-226-013	288 Shirley	$16,751.39
19-35-226-014	300 Shirley	$18,609.39
19-35-226-016	377 Arlington	$24,416.55

Sidwell Number	Street Address	Paving Assessment
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19-35-226-018	309 Arlington	$15,795.87
19-35-226-019	327 Arlington	$17,108.99
19-35-227-004	345 Shirley	$22,957.07
19-35-227-005	361 Shirley	$22,642.25
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19-35-227-008	421 Arlington	$18,029.69
19-35-227-009	445 Arlington	$19,447.69
19-35-227-010	463 Arlington	$20,032.19
19-35-227-011	487 Arlington	$20,856.12
19-35-227-012	503 Shirley	$18,548.46
19-35-227-013	585 Shirley	$19,012.25
19-35-227-034	680 Linden	$7,214.53
19-35-227-035	619 Shirley	$14,836.90
19-35-227-036	663 Shirley	$19,649.43
19-35-227-037	200 Linden	$5,276.77
19-35-276-001	503 Arlington	$31,224.64
19-35-276-002	577 Arlington	$15,814.45
19-35-276-003	645 Arlington	$29,677.35
19-35-276-006	779 Arlington	$17,170.54
19-35-276-007	843 Arlington	$17,366.54
19-35-276-008	881 Arlington	$16,253.20
19-35-276-009	945 Arlington	$16,398.32
19-35-276-010	975 Arlington	$26,543.69
19-35-276-011	1057 Arlington	$21,332.87
19-35-276-012	550 Shirley	$16,439.20
19-35-276-013	640 Shriley	$21,016.65
19-35-276-014	708 Shirley	$33,317.05
19-35-276-015	770 Shirley	$17,138.88
19-35-276-016	822 Shirley	$16,662.28
19-35-276-017	880 Shirley	$19,046.15
19-35-276-018	914 Shirley	$17,323.64
19-35-276-023	737 Arlington	$21,707.18
19-35-276-024	970 Shirley	$22,263.11
19-35-277-001	735 Shirley	$21,396.37
19-35-277-002	789 Shirley	$16,015.20
19-35-277-003	811 Shirley	$15,294.45

Sidwell Number	Street Address	Paving Assessment
19-35-277-004	855 Shirley	$20,037.43
19-35-277-005	905 Shirley	$16,598.56
19-35-277-006	955 Shirley	$21,610.77

$1,410,587.79

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Engineering Department

DATE: June 17, 2024

TO: Jana L. Ecker, City Manager

FROM: Melissa A. Coatta, City Engineer

SUBJECT: Arlington, Shirley, and Brandon Street Project, Contract #6-24(W)
Hearing of Necessity for Paving Special Assessment District (SAD)

INTRODUCTION:
Arlington Street from Lincoln Street to Maple Road, Shirley Road from Lincoln Street to Maple Road, and Brandon Street from Shirley Road to Linden Road will be under construction this year. The road is currently unimproved, a gravel road with cape seal treatment on top, and will be converted to an improved road by paving the road with new concrete curb and gutter, an engineered aggregate base, and asphalt paving per the City Commission resolution from the February 5, 2024 meeting.

BACKGROUND:
The City Commission passed a resolution at the February 5, 2024 meeting for Arlington Street from Lincoln Street to Maple Road, Shirley Road from Lincoln Street to Maple Road, to complete water main replacement and sewer improvements, and to convert the existing street to an improved road by paving the road with new concrete curb and gutter, an engineered aggregate base, and asphalt paving with no sidewalk. Also at this meeting, a resolution was passed to add Brandon Street to the Arlington Street and Shirley Street project and proceed with the final design to include construction of the street within the project area that will meet the City standards for an improved street with a five-foot-wide sidewalk on at least one side of the road, accommodating parking and entrance to the park, as well as a gate for pump house road/drive.

Arlington Street, Shirley Road, and Brandon are currently unimproved roads, which are gravel roads with a cape seal treatment on top. The proposed plans call for an 8" engineering aggregate base, 4" asphalt, new concrete curb and gutter, and driveway approaches to become an improved road. The proposed road width will match the existing width conditions on these streets.

The following previous meetings contain additional information for the Arlington, Shirley, and Brandon Project:

- January 8, 2024 City Commission Meeting (Agenda – Video)
- January 22, 2024 City Commission Meeting (Agenda – Video)
- January 30, 2024 Special City Commission Meeting – Shirley & Arlington (Agenda – Video)
- February 5, 2024 City Commission Meeting (Agenda – Video)

The City policy has been to defray the costs of converting a road from an unimproved road to an improved road by creating a special assessment district (SAD) consisting of the properties that are benefitting from this:

Paving Costs:

- 85% of the front-foot costs are assessed on all properties fronting on the improvement, and the City pays 15% of the costs
- For single-family houses, if the longer side of a corner property faces the street being constructed, the City will pay two-thirds (2/3) of the cost of the assessment for that property. The property owner will be charged the remaining third (1/3). If the short side of a corner property faces the street to be constructed, the owner pays 100% of the assessment.

Approach Costs:

- 100% property owner costs

The parcels within the project zone that are subject to paving special assessment are highlighted on the attached map. Appended to this report is a list of properties that the department plans to include in the Assessment District, along with the estimated construction costs to be assessed.

LEGAL REVIEW:
Chapter 94 – Special Assessments of the Birmingham City Code outlines the process by which a special assessment is conducted in the City of Birmingham. This project will follow the prescribed City Code procedures. The City Attorney has no objections.

FISCAL IMPACT:
Revenue generated from the paving SAD for the Arlington, Shirley, and Brandon project will defray the costs incurred by the City for the construction of these improvements. The cost can be paid back in either a lump sum or over up to a 10-year period with interest. The interest rate will be confirmed at the Hearing of the Confirmation of Roll on July 8, 2024.

SUSTAINABILITY:
The proposed road width is less sustainable due to the increased use of asphalt and other materials, increased maintenance costs and the increased speed of traffic on wide roads.

DESIGN CONSIDERATIONS:
The road design is consistent with the previous decision by the City Commission to maintain the existing road width and remove sidewalks from the proposed improvements.

PUBLIC COMMUNICATIONS:
The Clerk's Office distributed the notice of Hearing of Necessity. The Engineering Department sent a letter to all property owners explaining the scope of work with the notice. The Engineering Department held a resident meeting on June 4, 2024.

SUMMARY:
The Engineering Department recommends that the City Commission declare necessity and approve a special assessment district for paving as part of the Arlington, Shirley, and Brandon

project. Should the Commission approve the special assessment district, a public hearing for confirmation of the Roll should be set for the City Commission meeting on July 8, 2024.

ATTACHMENTS:

- Map of proposed SAD for paving
- Arlington, Shirley, and Brandon Road project plans
- Spreadsheet with estimated cost of paving
- Clerk's confirmation of the public hearing notice

SUGGESTED COMMISSION ACTION:

WHEREAS, Notice was given pursuant to Section 94-7 of the City Code, to each owner or party-in-interest of property and lots to be assessed, by first class mail, and by publication in a newspaper generally circulated in the City; and

WHEREAS, The City Commission has conducted a public hearing and has determined it is necessary to proceed with the project paving on Arlington Street from Lincoln Road to Maple Road, Shirley Road from Lincoln Road to Maple Road, and Brandon Street to Arlington Street and Shirley Street; and

WHEREAS, The City has previously established a policy requiring converting an unimproved road to an improved road; and

WHEREAS, The City Commission, after the public hearing, has determined that paving Arlington Street from Lincoln Road to Maple Road, Shirley Road from Lincoln Road to Maple Road, and Brandon Street to Arlington Street and Shirley Street, is a necessity and is in the best interest of the City and will specially benefit the properties included in the Special Assessment District; and

WHEREAS, The Commission has approved the detailed plans and estimates of cost prepared by the City Engineer; and

WHEREAS, Formal bids have been received and the actual cost of paving has been determined; and

WHEREAS, The City Engineer has determined the boundaries of paving located within the limits of the following streets shall be installed as part of the Arlington, Shirley, and Brandon Project (Contract #6-24(W)):

Arlington Street – Lincoln Street to Maple Road; and
Shirley Road – Lincoln Road to Maple Road; and
Brandon Street – Arlington Street and Shirley Street

WHEREAS, The formula used in making the assessment for paving is 85% of the front-foot costs are assessed on all properties fronting on the improvement. The City pays 15% of the cost and for single-family houses, if the longer side of a corner property faces the street being constructed, the City will pay two-thirds (2/3) of the cost of the assessment for that property. The property owner will be charged the remaining third (1/3). If the short side of a corner property faces the street to be constructed, the owner pays 100% of the assessment, and for approaches is 100% of the contractor's charge for replacing the approach with concrete within

the public right-of-way between the proposed curb and the property line (calculated at the rate of $156.84 per front footage for paving, $4.00 per square foot to remove and salvage brick pavers, $105.00 per square year for remove concrete approach and install concrete approach, and $100.00 per square yard to remove asphalt approach and install concrete approach).

THEREFORE LET IT BE RESOLVED, The City Commission has determined that the scope of the public improvement as described is in the best interest of the City and will benefit the properties listed in the assessment roll is a necessity, and the City Commission directs the Manager to prepare a Special Assessment Roll and present the same to the City Commission for confirmation and further set a Public Hearing of Confirmation of the Roll on July 8, 2024 and provide notice of same.

Sidwell Number	Street Address	Total Paving SAD Costs
19-35-202-033	218 Arlington	$14,594.35
19-35-202-034	222 Arlington	$15,276.82
19-35-202-035	280 Arlington	$17,573.46
19-35-202-036	316 Arlington	$17,628.46
19-35-202-039	414 Arlington	$17,814.09
19-35-202-040	432 Arlington	$17,897.59
19-35-202-041	444 Arlington	$38,050.36
19-35-202-042	500 Arlington	$18,216.76
19-35-202-043	550 Arlington	$19,984.21
19-35-202-044	600 Arlington	$18,549.31
19-35-202-045	700 Arlington	$16,386.31
19-35-202-046	730 Arlington	$15,657.26
19-35-202-047	776 Arlington	$14,320.26
19-35-202-048	800 Arlington	$15,655.20
19-35-202-049	860 Arlington	$16,343.63
19-35-202-050	898 Arlington	$16,820.76
19-35-202-051	924 Arlington	$16,150.40
19-35-202-052	968 Arlington	$18,484.48
19-35-202-053	992 Arlington	$17,467.70
19-35-202-055	1420 W. Lincoln	$11,917.85
19-35-202-068	400 Arlington	$38,106.60
19-35-202-069	1589 W. Maple	$27,503.50
19-35-226-001	117 Arlington	$16,071.70
19-35-226-002	175 Arlington	$16,394.05
19-35-226-003	243 Arlington	$16,822.20
19-35-226-004	269 Arlington	$15,138.54
19-35-226-006	345 Arlington	$18,257.23
19-35-226-009	100 Shirley	$19,215.41

19-35-226-010	188 Shirley	$18,104.35
19-35-226-011	226 Shirley	$17,194.39
19-35-226-012	252 Shirley	$17,135.39
19-35-226-013	288 Shirley	$16,751.39
19-35-226-014	300 Shirley	$18,609.39
19-35-226-016	377 Arlington	$24,416.55
19-35-226-017	350 Shirley	$26,926.65
19-35-226-018	309 Arlington	$15,795.87
19-35-226-019	327 Arlington	$17,108.99
19-35-227-004	345 Shirley	$22,957.07
19-35-227-005	361 Shirley	$22,642.25
19-35-227-006	381 Shirley	$20,094.46
19-35-227-008	421 Arlington	$18,029.69
19-35-227-009	445 Arlington	$19,447.69
19-35-227-010	463 Arlington	$20,032.19
19-35-227-011	487 Arlington	$20,856.12
19-35-227-012	503 Shirley	$18,548.46
19-35-227-013	585 Shirley	$19,012.25
19-35-227-034	680 Linden	$7,214.53
19-35-227-035	619 Shirley	$14,836.90
19-35-227-036	663 Shirley	$19,649.43
19-35-227-037	200 Linden	$5,276.77
19-35-276-001	503 Arlington	$31,224.64
19-35-276-002	577 Arlington	$15,814.45
19-35-276-003	645 Arlington	$29,677.35
19-35-276-006	779 Arlington	$17,170.54
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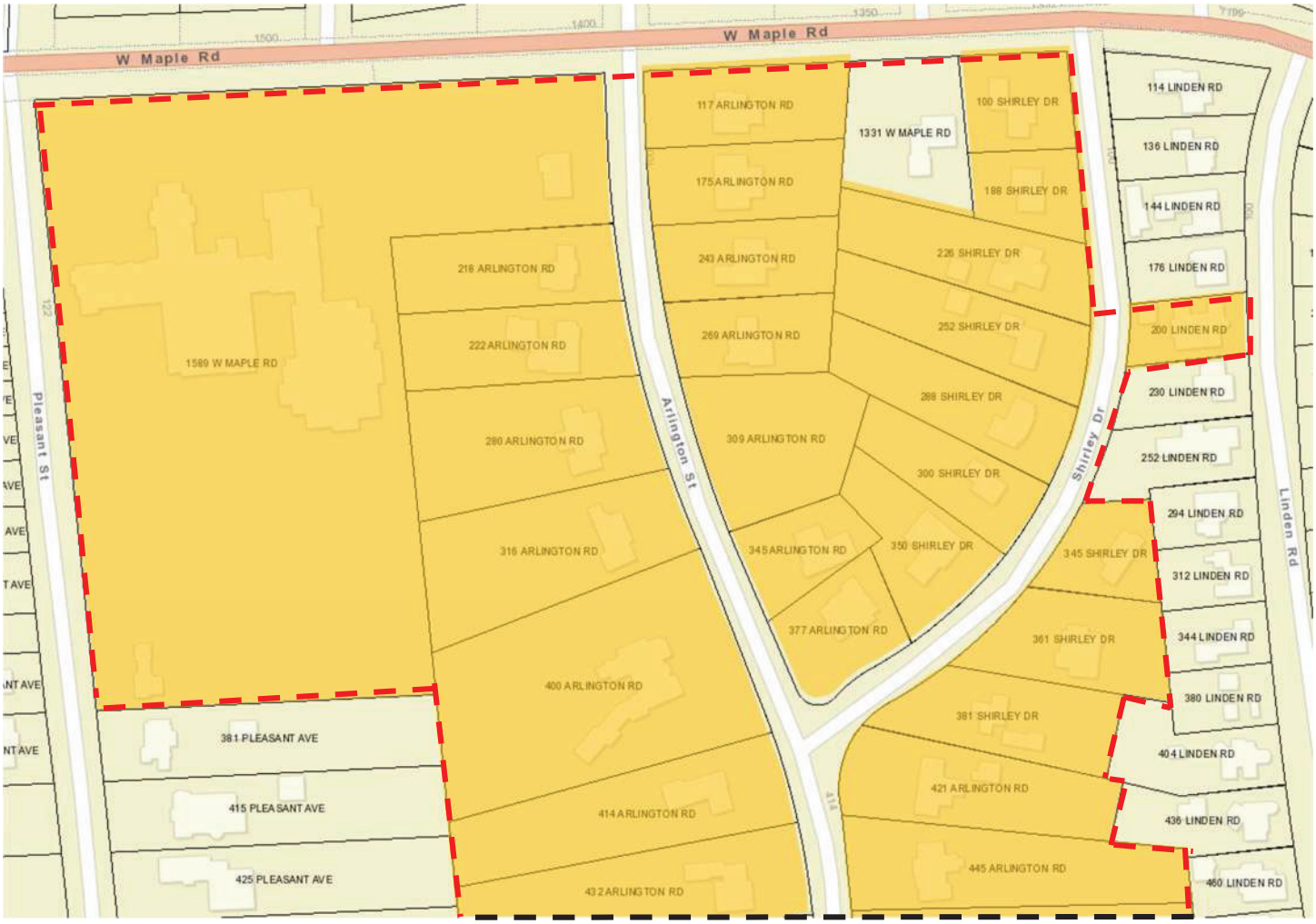
Arlington, Shirley, and Brandon Project Area

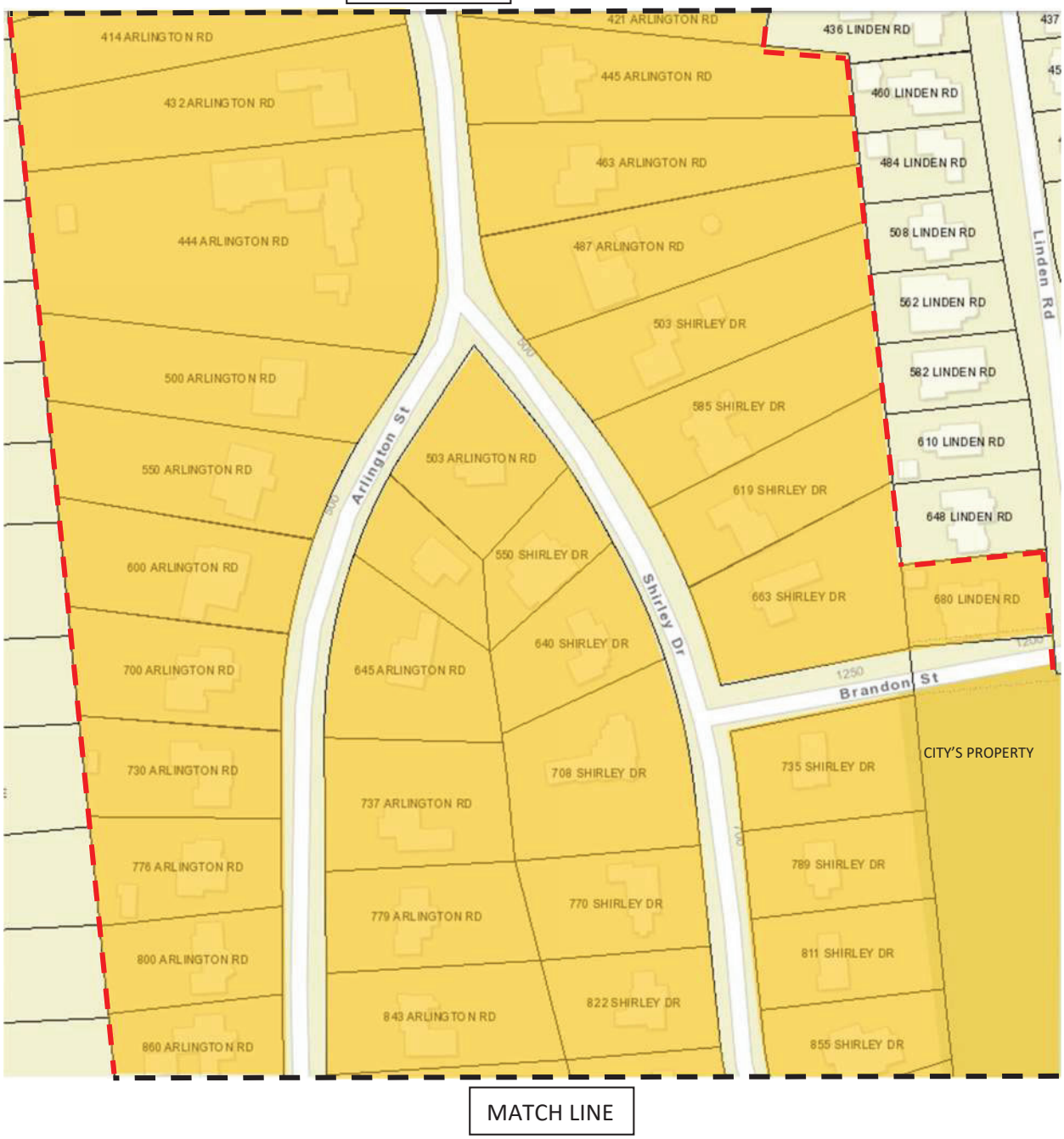


MATCH LINE

Limits of Projects

Properties Within Pavement SAD

Arlington, Shirley, and Brandon Project Area

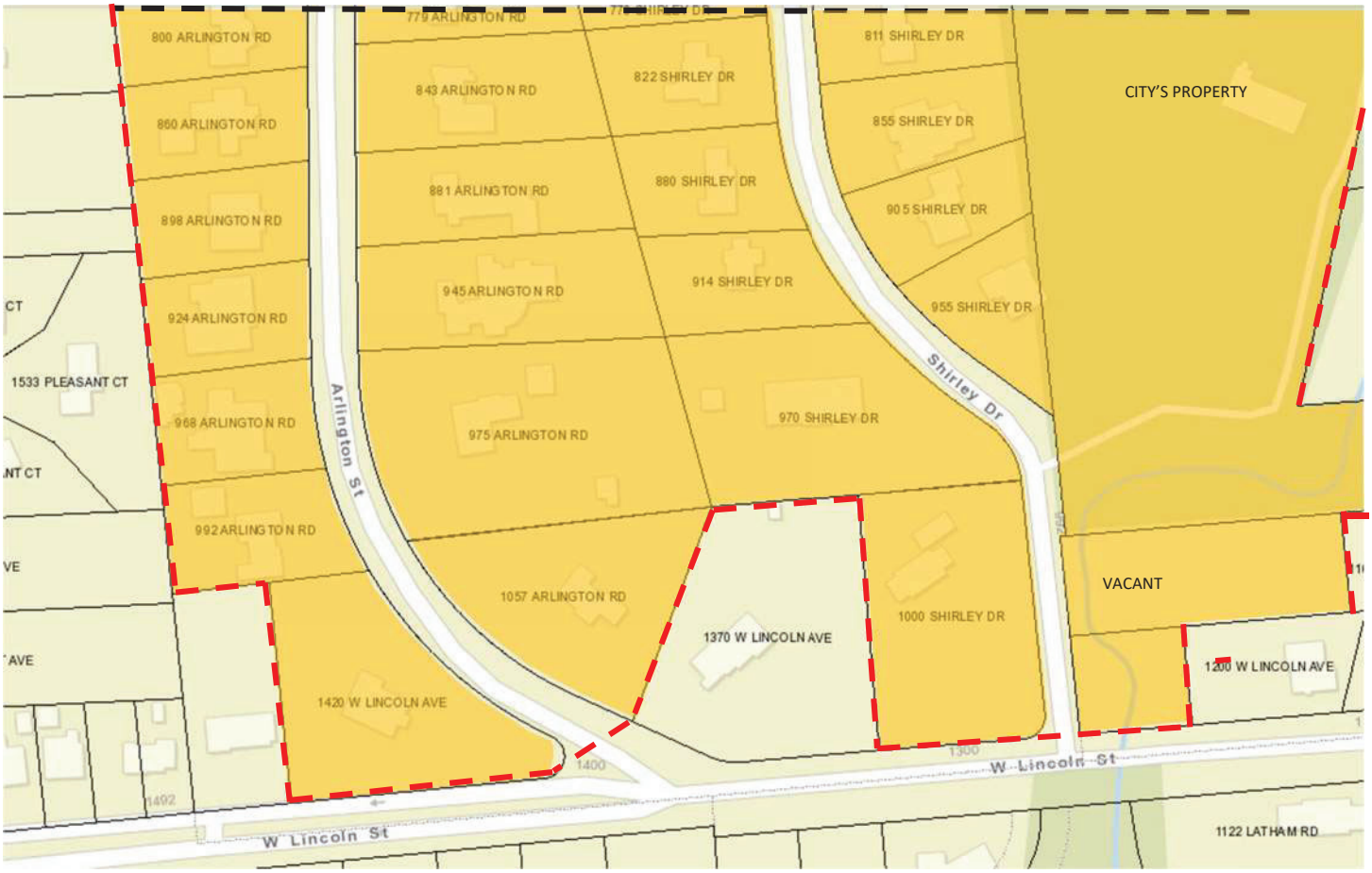


Limits of Projects

Properties Within Pavement SAD

Arlington, Shirley, and Brandon Project Area

MATCH LINE



Limits of Projects

Properties Within Pavement SAD

BIRMINGHAM

A WALKABLE CITY

ENGINEERING DEPARTMENT

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

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Q1 Quantities

CITY OF BIRMINGHAM - WATER MAIN STANDARD DETAILS
CITY OF BIRMINGHAM - SEWER STANDARD DETAILS

WATER / SEWER SERVICE NOTE

ALL WATER AND SEWER SERVICE LATERAL INFORMATION IS SHOWN PER RECORD, WITHIN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH CITY FOR ALL PRIVATE-SIDE WATER AND SEWER LATERAL INFORMATION, AS REQUIRED, TO CONSTRUCT THE PROJECT INCL).

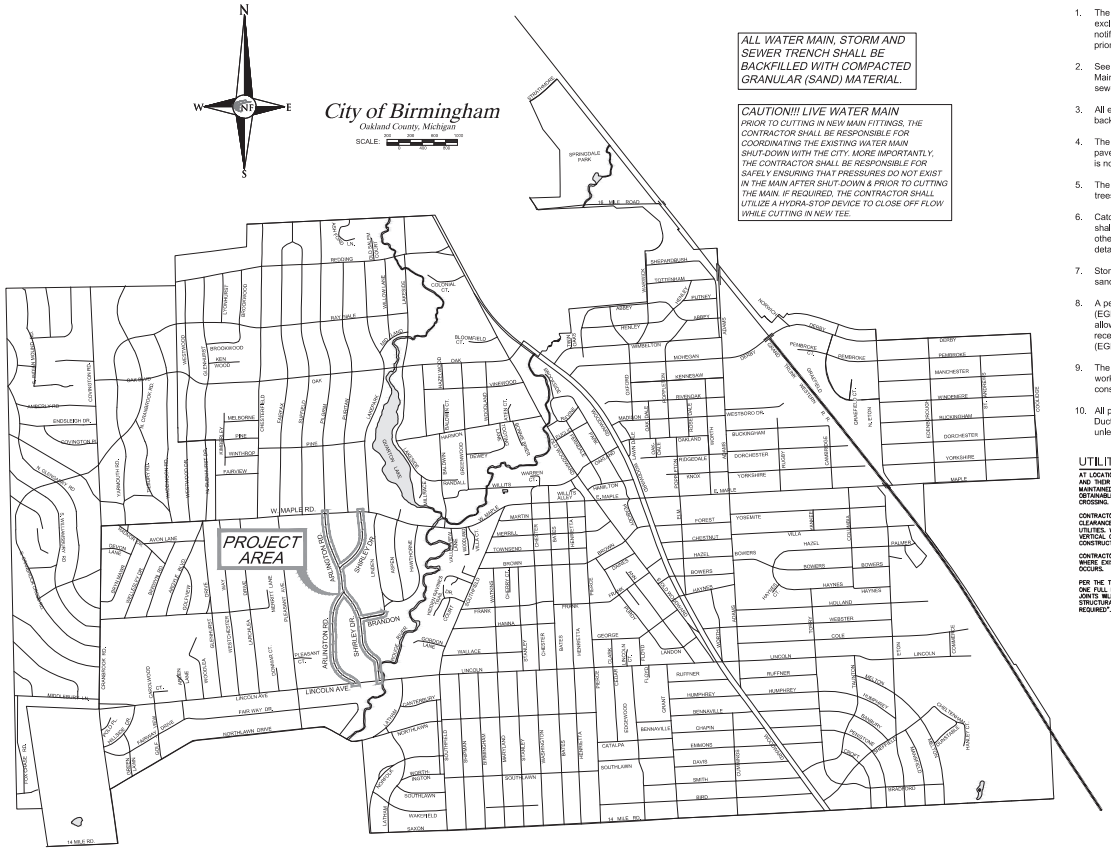
UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF., THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

811 Know what's **below** **Call** before you dig.

BENCHMARK NOTE

BENCHMARKS SET AND SHOWN PER SHEET WERE ESTABLISHED OFF OF THE CITY OF BIRMINGHAM BENCHMARK DATUM.



ALL WATER MAIN, STORM AND SEWER TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR (SAND) MATERIAL.

CAUTION!!! LIVE WATER MAIN
PRIOR TO CUTTING IN NEW MAIN FITTINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE EXISTING WATER MAIN SHUT-DOWN WITH THE CITY. MORE IMPORTANTLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY ENSURING THAT PRESSURES DO NOT EXIST IN THE MAIN AFTER SHUT-DOWN & PRIOR TO CUTTING THE MAIN. IF REQUIRED, THE CONTRACTOR SHALL UTILIZE A HYDRA-STOP DEVICE TO CLOSE OFF FLOW WHILE CUTTING IN NEW TEE.

CONSTRUCTION NOTES

These notes shall apply for all work within this contract:

1. The contractor shall notify MISS DIG 1-800-482-7171 at least 3 working days excluding Saturday, Sunday, and Holidays before making any excavations and notify the City of Birmingham Engineering Department a minimum of 24 hours prior to the start of construction (248-530-1850).
2. See the City of Birmingham drawings "Sewer Standard Details" and "Water Main Standard Details" for details of manholes, catch basins, inlets, and related sewer and water main work.
3. All excavation under or within three feet of pavement, public or private, shall be backfilled and compacted with sand.
4. The joints at the edges of all excavations in the pavement shall be sawcut, or pavement will be removed to existing joints, as directed by the Engineer. There is no separate pay item for saw cutting pavements.
5. The contractor shall be responsible for damage to existing utilities, pavement, trees, landscaping, gravel, etc., whether located on public or private property.
6. Catch basin and inlet castings scheduled for replacement, or new construction shall be EJIW 5000Z4 DI / 5000M4 DI Hinged Assembly unless specified otherwise. Manhole castings shall be EJIW 1040-A cover as noted on the detail sheets and plans, unless otherwise specified.
7. Storm, sewer and water main trench shall be backfilled with MDOT Class II sand and properly compacted to 95% of modified proctor density.
8. A permit from the Michigan Department of Environment, Great Lakes & Energy (EGLE) is required for all new water main installations. Also, no work shall be allowed on the combined sewer system until appropriate permits have been received by the Michigan Department of Environment, Great Lakes & Energy (EGLE).
9. The contractor shall coordinate and cooperate with all other utility companies working in the same area, project related or not, during the same allotted construction period.
10. All proposed Public Water Main for this project shall be Pressure Class 52 Ductile Iron Pipe (D.I.P.) in conformance with City of Birmingham specifications, unless otherwise noted.

UTILITY CROSSING NOTE

AT LOCATIONS WHERE THERE ARE CROSSING WITH EXISTING UTILITES AND THEIR DEPTHS ARE UNKNOWN, 18" VERTICAL SEPARATION WILL BE MAINTAINED WHENEVER POSSIBLE. IF THE 18" SEPARATION IS NOT OBTAINABLE, A CONCRETE ENCASEMENT WILL BE INSTALLED AT THE CROSSING.

CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' SEPARATION CANNOT BE MAINTAINED, 18" VERTICAL CLEARANCE SHALL BE PROVIDED AND UTILITIES SHALL BE CONSTRUCTED IN SEPARATE TRENCHES.

CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS.

PER THE TEN STATES STANDARDS, ARTICLE 8.8.3 (b), "AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE (20') SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED".

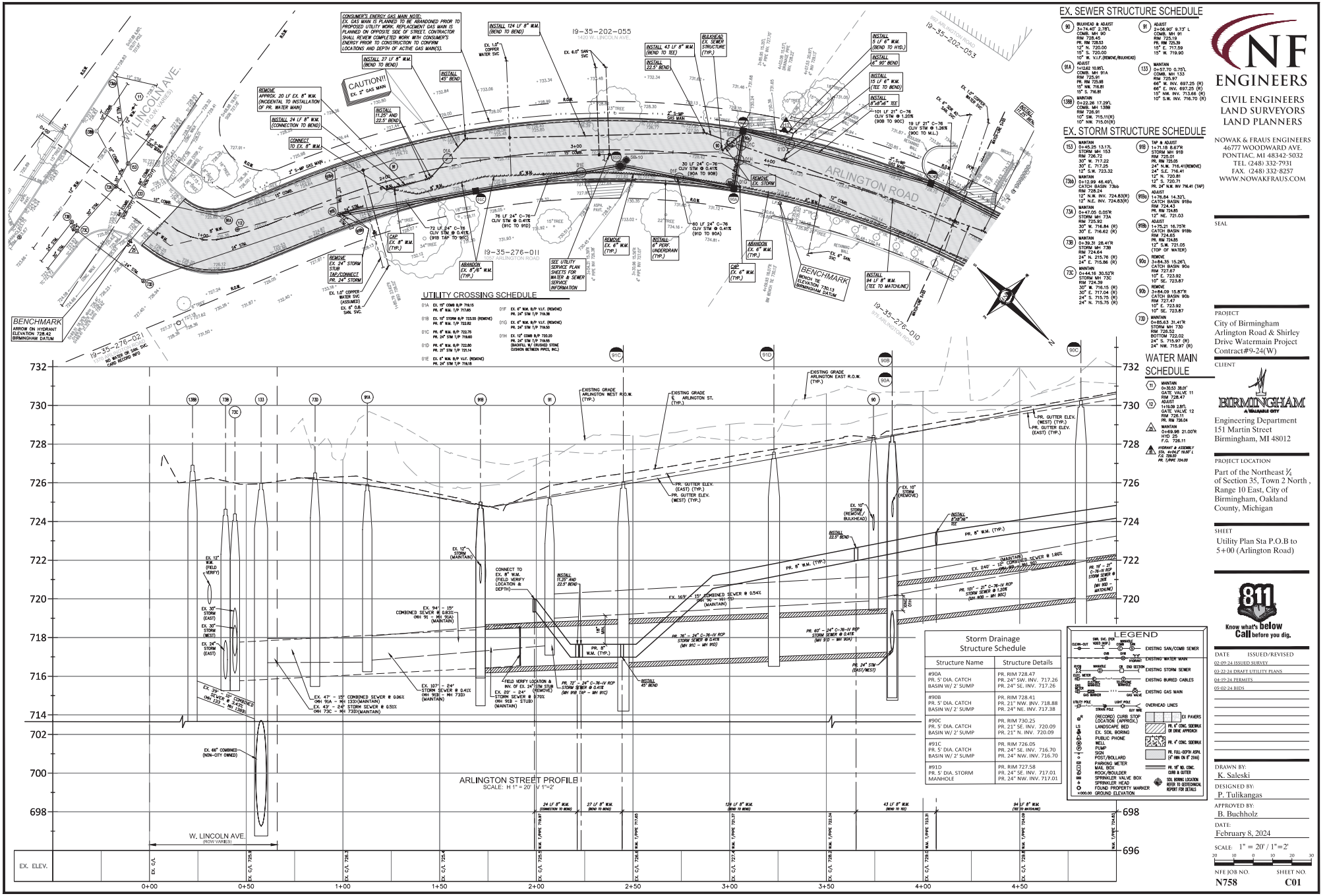
DESIGN ENGINEER SEAL

STATE OF MICHIGAN
PAUL TULIKANGAS
ENGINEER NO. 057929
LICENSED PROFESSIONAL ENGINEER

APPROVED DATE

05-02-24 BIDS

ENGINEERING DEPARTMENT
ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)



EX. SEWER STRUCTURE SCHEDULE

(90) BULKHEAD & ADJUST
3+74.40' 2.78'L
COMB. MH 90
RIM 728.45
PR. RIM 728.53
12" N. 720.00
15" S. 720.00
10" W. V.I.F.(REMOVE/BULKHEAD)

(91A) ADJUST
1+12.62' 10.95'L
COMB. MH 91A
RIM 725.91
PR. RIM 725.98
15" NW. 716.81
15" S. 716.81

(138B) MAINTAIN
0+22.26' 17.29'L
COMB. MH 138B
RIM 726.91
10" SW. 715.11(R)
10" NW. 715.01(R)

(91) ADJUST
2+08.90' 9.73' L
COMB. MH 91
RIM 725.19
PR. RIM 725.39
15" E. 717.59
15" W. 719.90

(133) MAINTAIN
0+57.70 0.75'L
COMB. MH 133
RIM 725.97
66" W. INV. 697.25 (R)
66" E. INV. 697.25 (R)
15" NW. INV. 713.66 (R)
10" S.W. INV. 716.70 (R)

EX. STORM STRUCTURE SCHEDULE

(153) MAINTAIN
0+45.25 13.17L
STORM MH 153
RIM 726.72
30" W. 717.22
30" E. 717.25
12" S.W. 723.32

(73A) MAINTAIN
0+12.99 48.49'L
CATCH BASIN 73a
RIM 728.24
12" N.W. INV. 724.83(R)
12" N.E. INV. 724.83(R)

(73A) MAINTAIN
0+47.05 0.05'R
STORM MH 73A
RIM 725.92
30" W. 716.84 (R)
30" E. 716.62 (R)

(73B) MAINTAIN
0+39.31 28.41'R
STORM MH 73B
RIM 724.64
24" E. 715.76 (R)
24" E. 715.86 (R)

(73C) MAINTAIN
0+44.16 30.52'R
STORM MH 73C
RIM 724.39
30" W. 716.15 (R)
30" E. 717.04 (R)
24" S. 715.75 (R)
24" N. 715.75 (R)

(91B) TAP & ADJUST
1+71.18 8.67'R
STORM MH 91B
RIM 725.01
PR. RIM 725.05
24" N.W. 716.41(REMOVE)
24" S.E. 716.41
12" N. 720.81
12" S. 720.71
PR. 24" N.W. INV 716.41 (TAP)

(91Ba) ADJUST
1+76.84 14.32'L
CATCH BASIN 91Ba
RIM 724.43
PR. RIM 724.85
12" NE. 721.03

(91Bb) ADJUST
1+75.21 16.75'R
CATCH BASIN 91Bb
RIM 724.65
PR. RIM 724.85
12" S.W. 721.05
(TOP OF WATER)

(90a) REMOVE
3+84.35 15.26'L
CATCH BASIN 90a
RIM 727.67
10" E. 723.92
10" SE. 723.87

(90b) REMOVE
3+84.09 15.87'R
CATCH BASIN 90b
RIM 727.47
10" E. 723.92
10" SE. 723.87

(73D) MAINTAIN
0+85.63 31.41'R
STORM MH 73D
RIM 726.52
BOTTOM 722.02
24" S. 715.97 (R)
24" NW. 715.97 (R)

WATER MAIN SCHEDULE

(11) MAINTAIN
0+30.53 38.01'
GATE VALVE 11
RIM 728.47

(12) ADJUST
1+19.09 2.8'L
GATE VALVE 12
RIM 726.11
PR. RIM 726.04

(A) MAINTAIN
0+69.98 21.00'R
HYD 25
F.G. 726.11

(A) HYDRANT & ASSEMBLY
STA. 4+04.4' 19.93' L
F.G. 728.02
PR. T/PIPE 724.00

Storm Drainage Structure Schedule

Structure Name	Structure Details
#90A PR. 5' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 728.47 PR. 24" SW. INV. 717.26 PR. 24" SE. INV. 717.26
#90B PR. 5' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 728.41 PR. 21" NW. INV. 718.88 PR. 24" NE. INV. 717.38
#90C PR. 5' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 730.25 PR. 21" SE. INV. 720.09 PR. 21" N. INV. 720.09
#91C PR. 5' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 726.05 PR. 24" SE. INV. 716.70 PR. 24" NW. INV. 716.70
#91D PR. 5' DIA. STORM MANHOLE	PR. RIM 727.58 PR. 24" SE. INV. 717.01 PR. 24" NW. INV. 717.01

LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (4" MIN ON 8" DIAL)
PR. 18" WD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION

NF ENGINEERS
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LAND PLANNERS

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

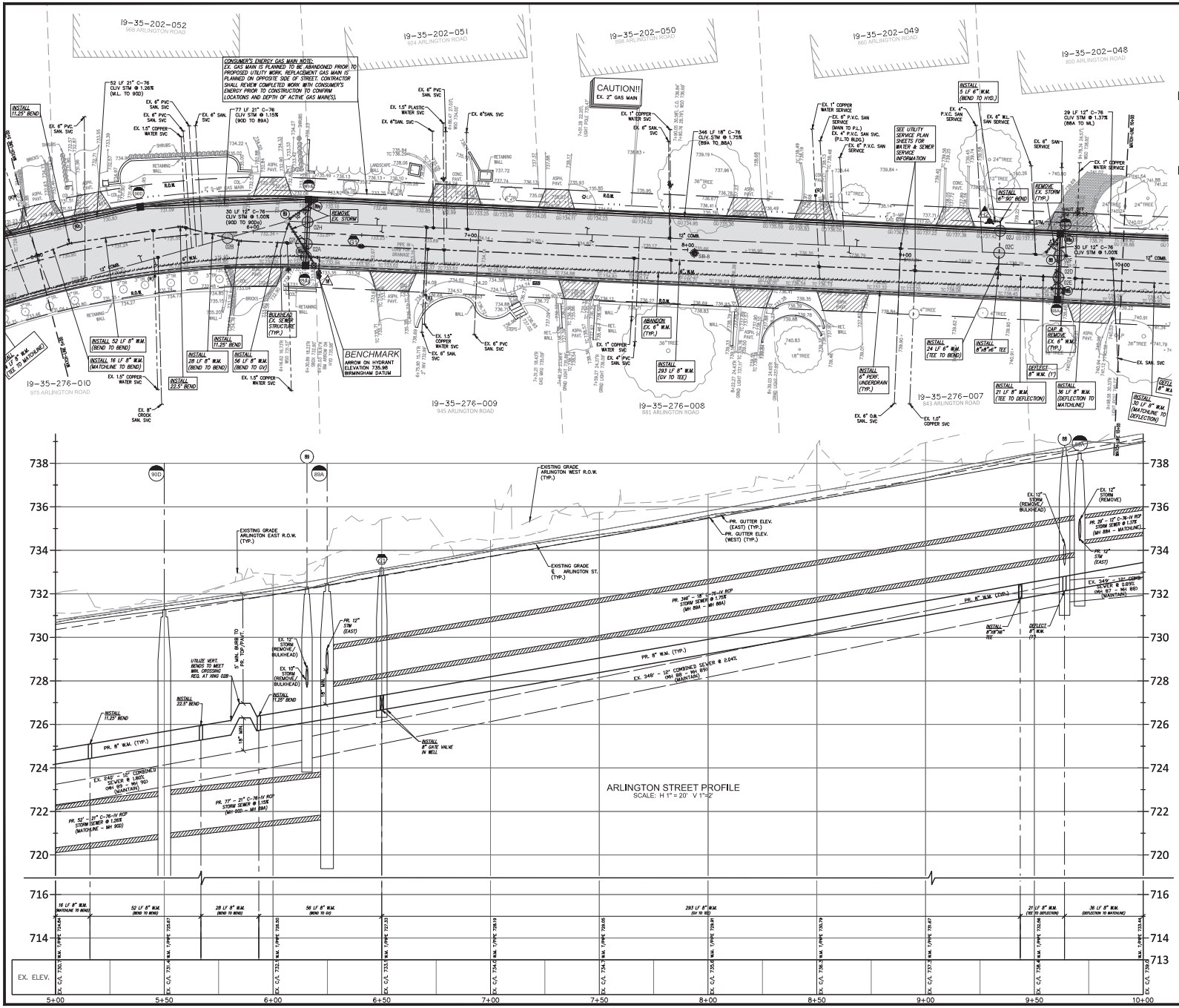
SHEET
Utility Plan Sta P.O.B to 5+00 (Arlington Road)

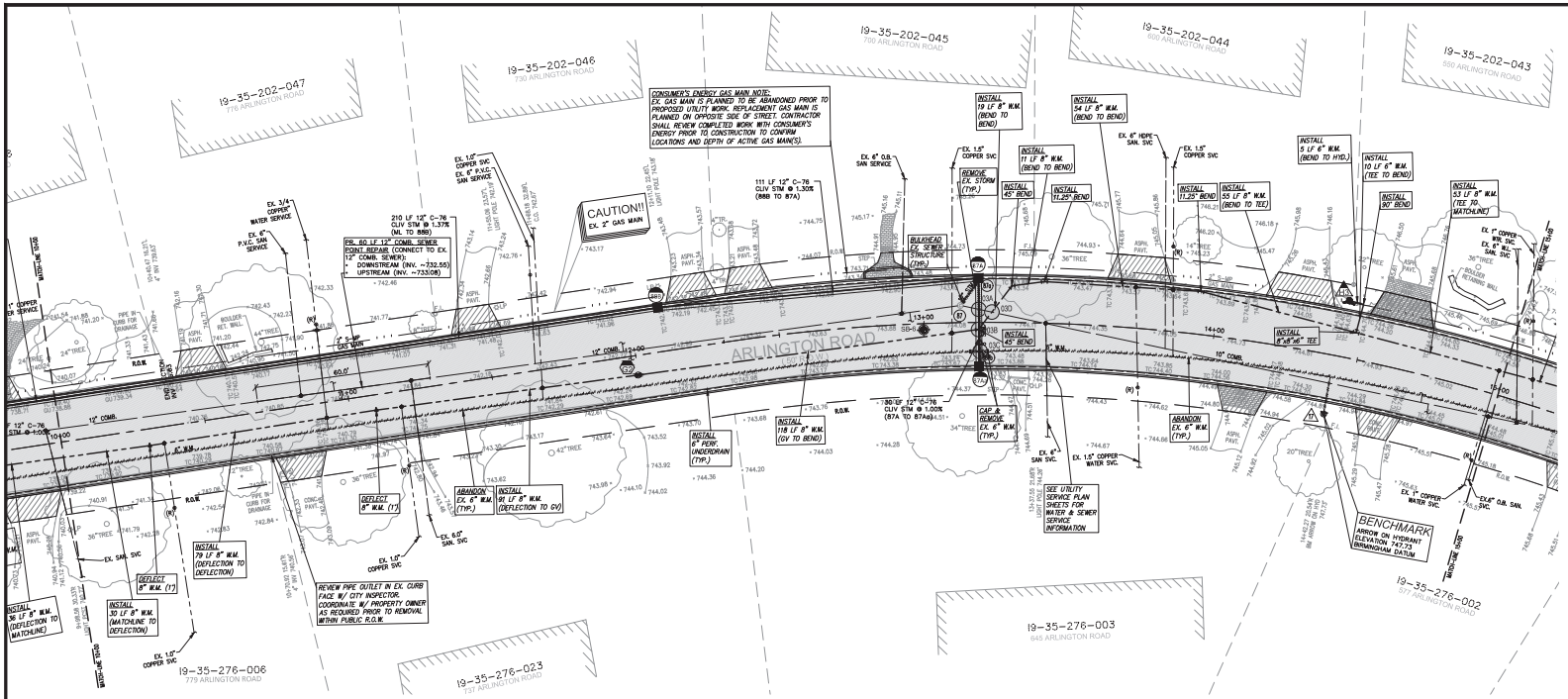
811
Know what's below
Call before you dig.

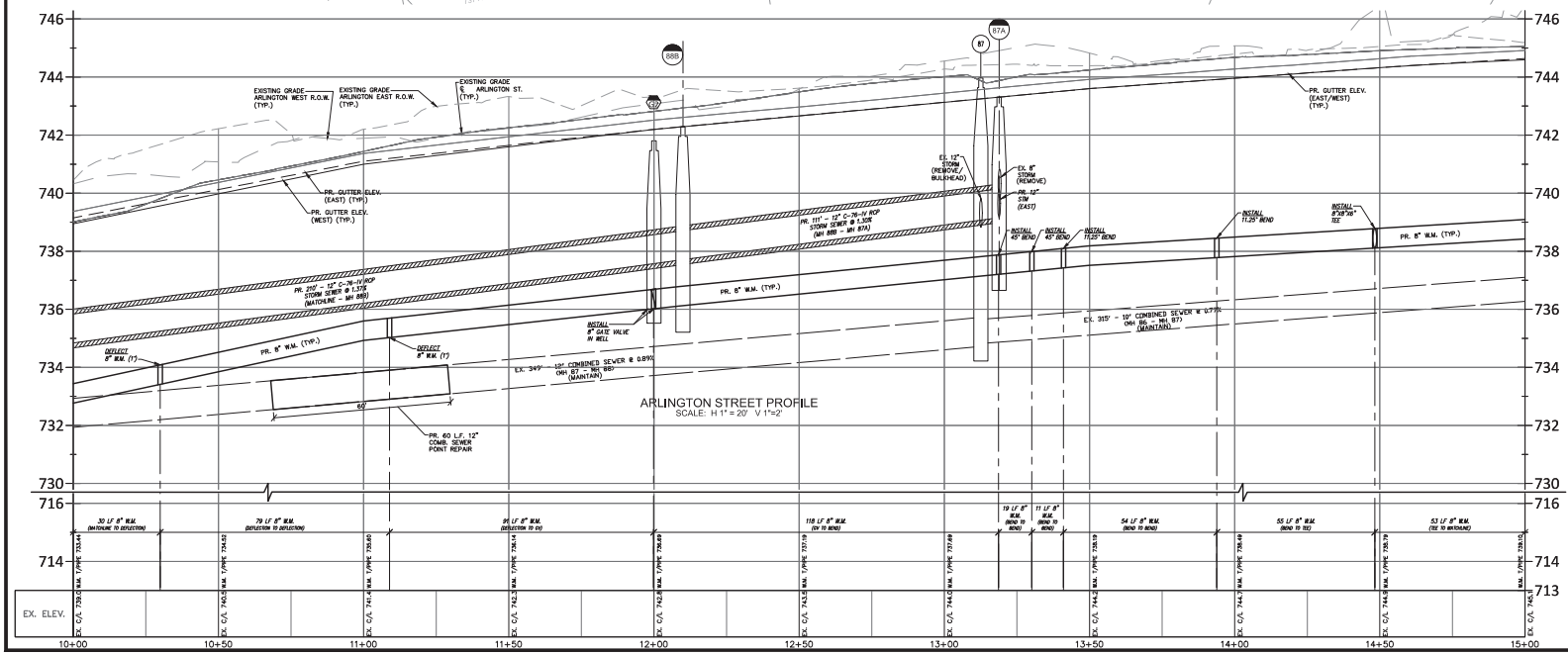
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C01


19-35-202-052
996 ARLINGTON ROAD
19-35-202-051
924 ARLINGTON ROAD
19-35-202-050
896 ARLINGTON ROAD
19-35-202-049
860 ARLINGTON ROAD
19-35-202-048
800 ARLINGTON ROAD
19-35-276-010
975 ARLINGTON ROAD
19-35-276-009
945 ARLINGTON ROAD
19-35-276-008
881 ARLINGTON ROAD
19-35-276-007
843 ARLINGTON ROAD
CONSUMER'S ENERGY GAS MAIN NOTE:
EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACEMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).
CAUTION!! EX. 2" GAS MAIN
SEE UTILITY SERVICE PLAN SHEETS FOR WATER & SEWER SERVICE INFORMATION
BENCHMARK
ARROW ON HYDRANT
ELEVATION 735.98
BIRMINGHAM DATUM
ARLINGTON STREET PROFILE
SCALE: H 1" = 20' V 1"=2'
EXISTING GRADE ARLINGTON WEST R.O.W. (TYP.)
EXISTING GRADE ARLINGTON EAST R.O.W. (TYP.)
EXISTING GRADE @ ARLINGTON ST. (TYP.)
PR. GUTTER ELEV. (EAST) (TYP.)
PR. GUTTER ELEV. (WEST) (TYP.)
PR. 8" W.M. (TYP.)
EX. 12" STORM (REMOVE/ BULKHEAD)
EX. 10" STORM (REMOVE/ BULKHEAD)
EX. 12" STORM (REMOVE/ BULKHEAD)
PR. 12" STM (EAST)
PR. 12" STM (EAST)
EX. 348' - 18" COMBINED SEWER @ 2.04%
EX. 348' - 18" COMBINED SEWER @ 0.69% (MH 87 - MH 88) (MAINTAIN)
PR. 340' - 18" STORM SEWER @ 1.75% (MH 89A - MH 88A)
PR. 77' - 21" C-76-IV RCP STORM SEWER @ 1.15% (MH 90D - MH 89A)
PR. 52' - 27" C-76-IV RCP STORM SEWER @ 1.00% (MATCHLINE - MH 90D)
PR. 25' - 18" C-76-IV RCP STORM SEWER @ 1.12% (MH 88A - MATCHLINE)
EX. 349' - 10" COMBINED SEWER @ 0.69% (MH 87 - MH 88) (MAINTAIN)
INSTALL 11.25° BEND
INSTALL 22.5° BEND
INSTALL 52 LF 8" W.M. (BEND TO BEND)
INSTALL 16 LF 8" W.M. (MATCHLINE TO BEND)
INSTALL 28 LF 8" W.M. (BEND TO BEND)
INSTALL 56 LF 8" W.M. (BEND TO GV)
INSTALL 293 LF 8" W.M. (GV TO TEE)
INSTALL 24 LF 8" W.M. (TEE TO BEND)
INSTALL 21 LF 8" W.M. (TEE TO DEFLECTION)
INSTALL 36 LF 8" W.M. (DEFLECTION TO MATCHLINE)
INSTALL 30 LF 8" W.M. (MATCHLINE TO DEFLECTION)
INSTALL 6" GATE VALVE IN WELL
INSTALL 6"x8"x6" TEE
INSTALL 6" PERF. UNDERDRAIN (TYP.)
ABANDON EX. 6" W.M. (TYP.)
CAP & REMOVE EX. 6" W.M. (TYP.)
REMOVE EX. STORM
BULKHEAD EX. SEWER STRUCTURE (TYP.)
DEFLECT 8" W.M. (TYP.)
DEFLECT 8" W.M. (1°)
UTILITY VERT. BENDS TO MEET MIN. CROSSING REQ. AT KING CUP
5' MIN. BURIAL TO PR. TOP PAVMT.
18" MIN.
EX. 6" PVC SAN. SVC
EX. 1.5" PLASTIC WATER SVC
EX. 6" SAN. SVC
EX. 1" COPPER WATER SVC
EX. 1.5" COPPER WATER SVC
EX. 4" P.V.C. SAN SVC
EX. 6" P.V.C. SAN SVC (MAIN TO P.L.)
EX. 6" P.V.C. SAN SVC. (P.L.TO BLDG.)
EX. 8" CROCK SAN. SVC
EX. 6" DIP SAN. SVC
EX. 12" COPPER SVC
EX. 4" P.V.C. SAN SVC
EX. 6" W.L. SAN SERVICE
EX. 1" COPPER WATER SERVICE
EX. 6" SAN SERVICE
EX. 4" SAN SERVICE
EX. 1" COPPER WATER SERVICE
EX. 6" W.M.
EX. 12" W.M.
EX. 8" W.M.
EX. 6" W.M.
EX. 6" W.M.
EX. 6





EX SEWER STRUCTURE SCHEDULE

(87) BULKHEAD & ADJUST
13+12.61 5.86'L.
CONNS. MH/ BY
RIM 743.97
PR RIM 743.45
12" S. 734.72
10" NW. 738.82 (REMOVE/BULKHEAD)
10" NE. 734.72

EX STORM STRUCTURE SCHEDULE

(87a) REMOVE
13+18.83 15.00'L
CATCH BASIN 87a
RIM 743.27
12" SE. 739.07
8" E. 739.47

(87b) REMOVE
13+19.28 14.73'R
CATCH BASIN 87b
RIM 743.34
8" W. 740.19

EX WATER MAIN SCHEDULE

(1) REMOVE
14+42.27 20.54'R
HYD 17
F.G. 747.73
PR. 8" GATE VALVE IN WELL
PR. CON. 11'x18.83' 6.76' R
PR. RIM 743.38
PR. 1-PIPE 738.69

(1) HYDRANT & ASSEMBLY
STA 14+43.63' 18.55' L
F.G. 745.93
PR. 1-PIPE 740.00

Storm Drainage Structure Schedule

Structure Name	Structure Details
#87A PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 743.31 PR. 12" S. INV. 739.15 PR. 12" E. INV. 739.15
#87Aa PR. 2' DIA. STORM INLET	PR. RIM 743.31 PR. 12" W. INV. 739.45
#88B PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 742.29 PR. 12" S. INV. 737.71 PR. 12" N. INV. 737.71

UTILITY CROSSING SCHEDULE

03A PR. 12" STM B/P 739.38
EX. 10" COMB T/P 735.70

03B PR. 12" STM B/P 739.33
PR. 8" W.M. T/P 737.83

03C PR. 12" STM B/P 739.41
EX. 6" W.M. T/P (REMOVE)

03D PR. 8" W.M. B/P 737.26
EX. 10" COMB. T/P 735.74

UTILITY NOTE

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LEGEND

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EXISTING WATER MAIN
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EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FILL-DEPTH ASPH. (4" MIN ON 6" STAB)
PR. 10" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

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PONTIAC, MI 48342-5032
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WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 10+00 to 15+00 (Arlington Road)

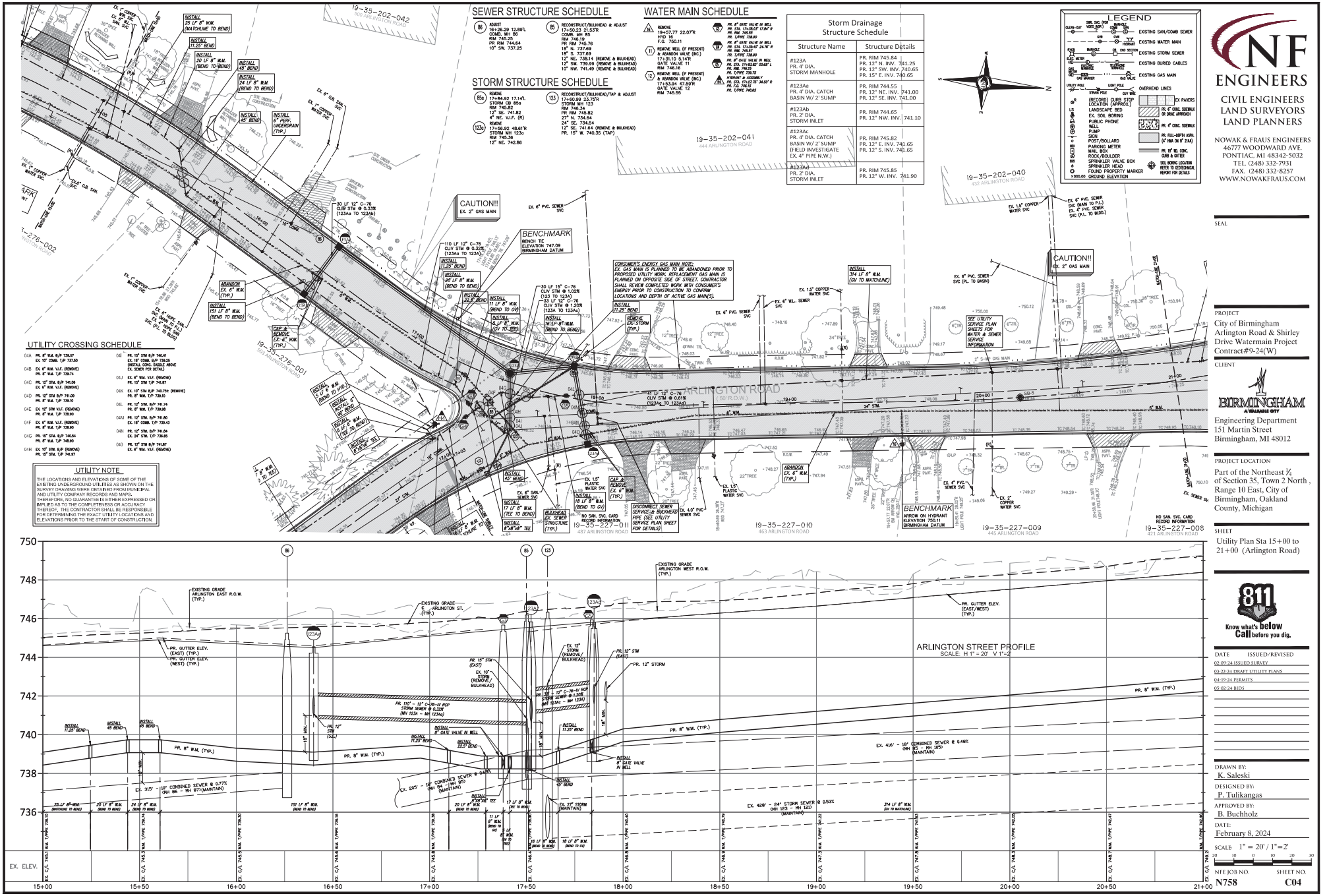
Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C03

8B



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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 15+00 to 21+00 (Arlington Road)

811
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DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
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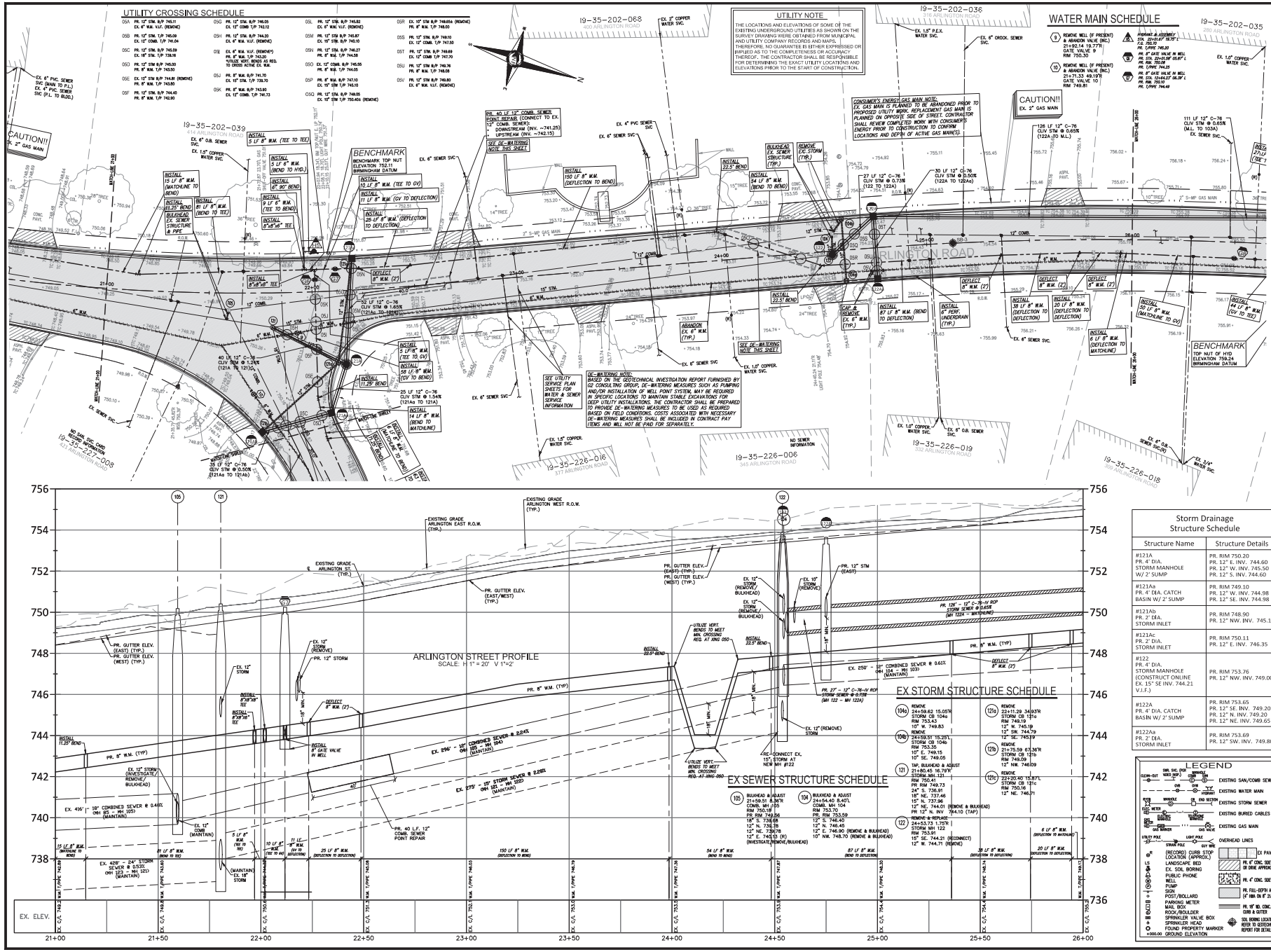
NFE JOB NO. N758
SHEET NO. C04

8B



Storm Drainage Structure Schedule	
Structure Name	Structure Details
#121A PR. 4' DIA. STORM MANHOLE W/ 2' SUMP	PR. RIM 750.20 PR. 12" E. INV. 744.60 PR. 12" W. INV. 745.50 PR. 12" S. INV. 744.60
#121Aa PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 749.10 PR. 12" W. INV. 744.98 PR. 12" SE. INV. 744.98
#121Ab PR. 2' DIA. STORM INLET	PR. RIM 748.90 PR. 12" NW. INV. 745.15
#121Ac PR. 2' DIA. STORM INLET	PR. RIM 750.11 PR. 12" E. INV. 746.35
#122 PR. 4' DIA. STORM MANHOLE (CONSTRUCT ONLINE EX. 15" SE INV. 744.21 V.I.F.)	PR. RIM 753.76 PR. 12" NW. INV. 749.00
#122A PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 753.65 PR. 12" SE. INV. 749.20 PR. 12" N. INV. 749.20 PR. 12" NE. INV. 749.65
#122Aa PR. 2' DIA. STORM INLET	PR. RIM 753.69 PR. 12" SW. INV. 749.80

LEGEND

EX. PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FILL-DEPTH ASPH. (4" MIN ON 6" 21AA)
PR. 10" NO. CONC. CURB & GUTTER

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

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Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 21+00 to 26+00 (Arlington Road)

811
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02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
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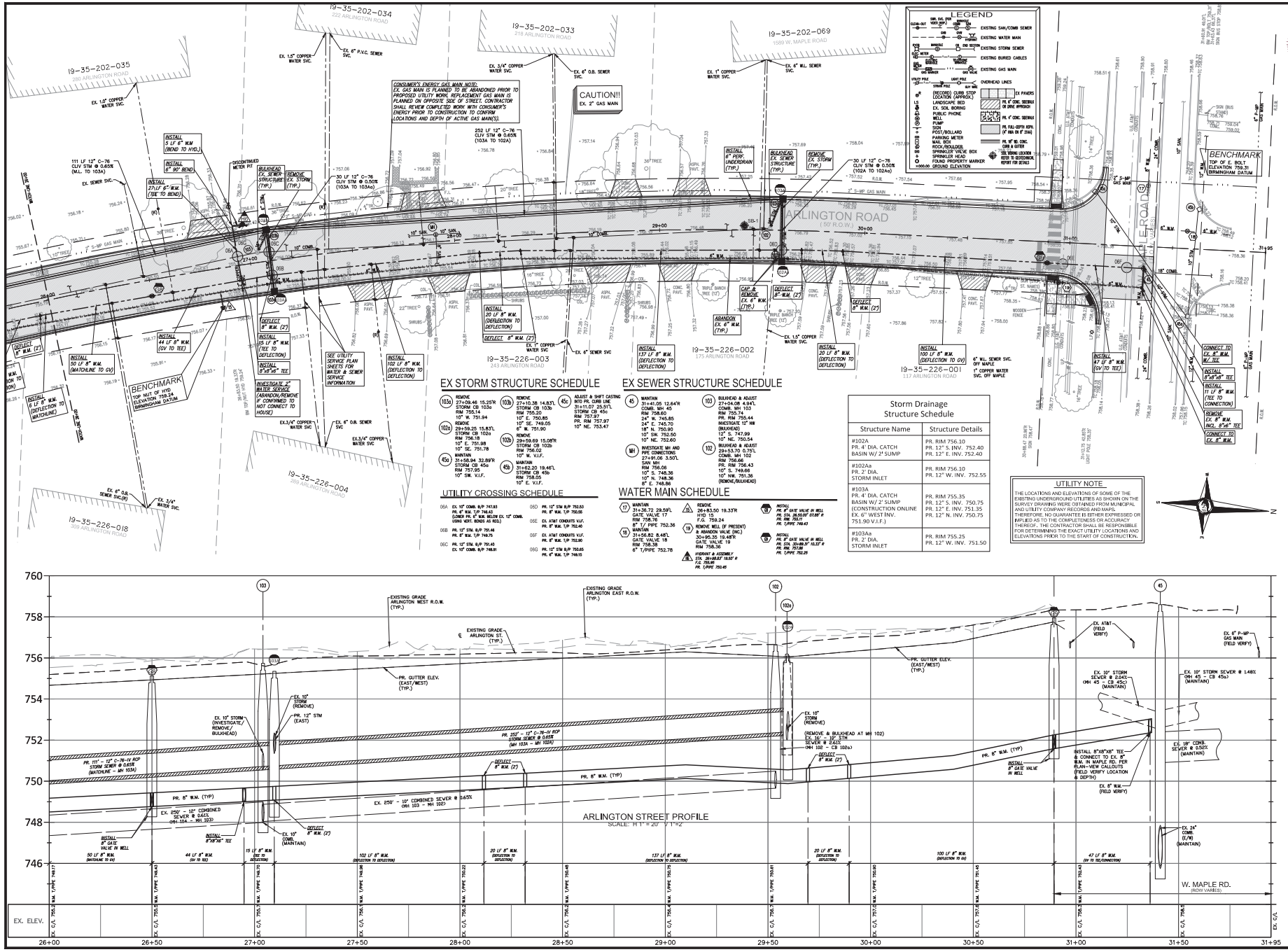
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C05



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SHEET
Utility Plan Sta 26+00 to P.O.E. (Arlington Road)

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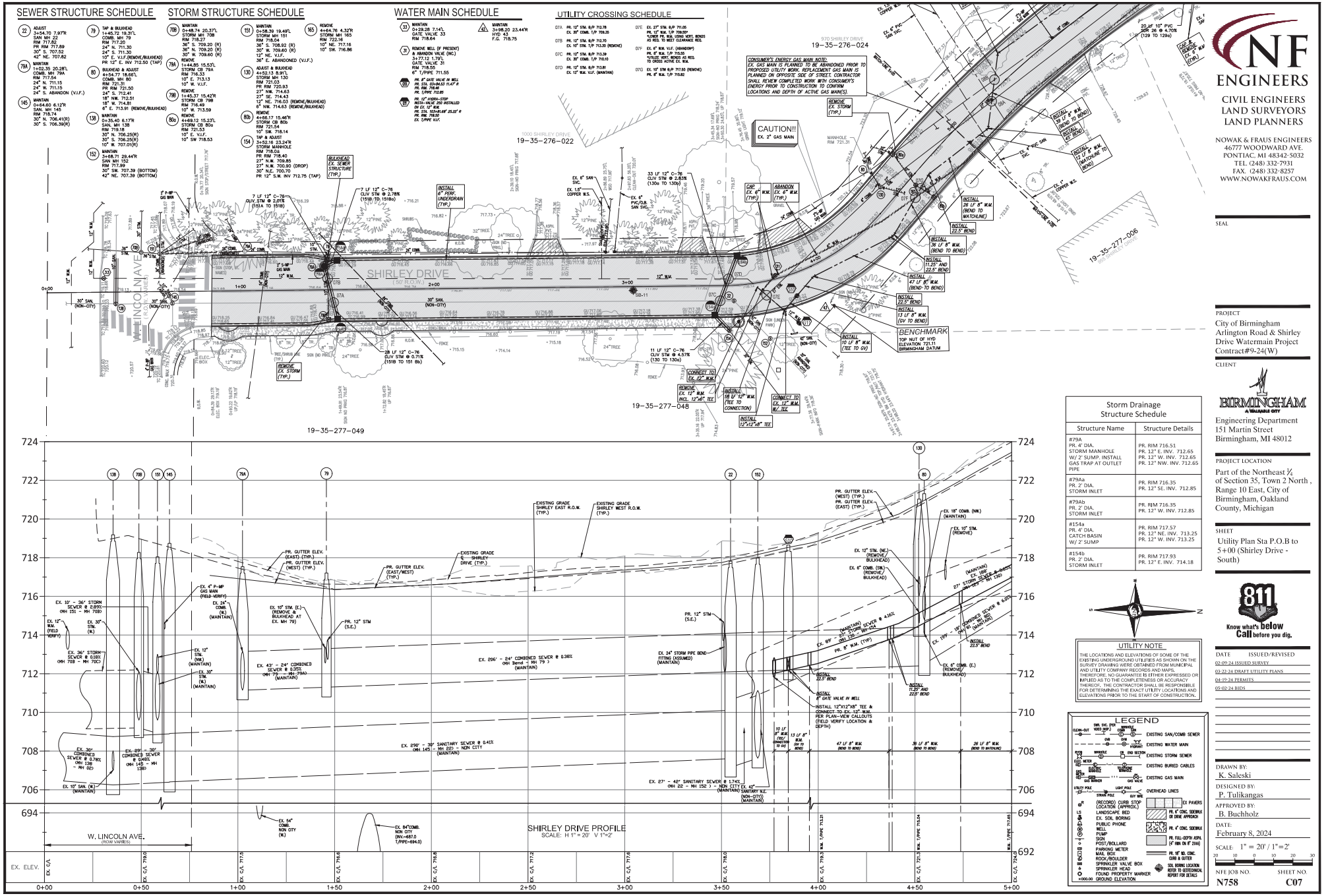
NFE JOB NO. N758
SHEET NO. C06



Storm Drainage Structure Schedule	
Structure Name	Structure Details
#79A PR. 4' DIA. STORM MANHOLE W/ 2' SUMP, INSTALL GAS TRAP AT OUTLET PIPE	PR. RIM 716.51 PR. 12" E. INV. 712.65 PR. 12" W. INV. 712.65 PR. 12" NW. INV. 712.65
#79Aa PR. 2' DIA. STORM INLET	PR. RIM 716.35 PR. 12" SE. INV. 712.85
#79Ab PR. 2' DIA. STORM INLET	PR. RIM 716.35 PR. 12" W. INV. 712.85
#154a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 717.57 PR. 12" NE. INV. 713.25 PR. 12" W. INV. 713.25
#154b PR. 2' DIA. STORM INLET	PR. RIM 717.93 PR. 12" E. INV. 714.18

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EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
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PROJECT LOCATION
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SHEET
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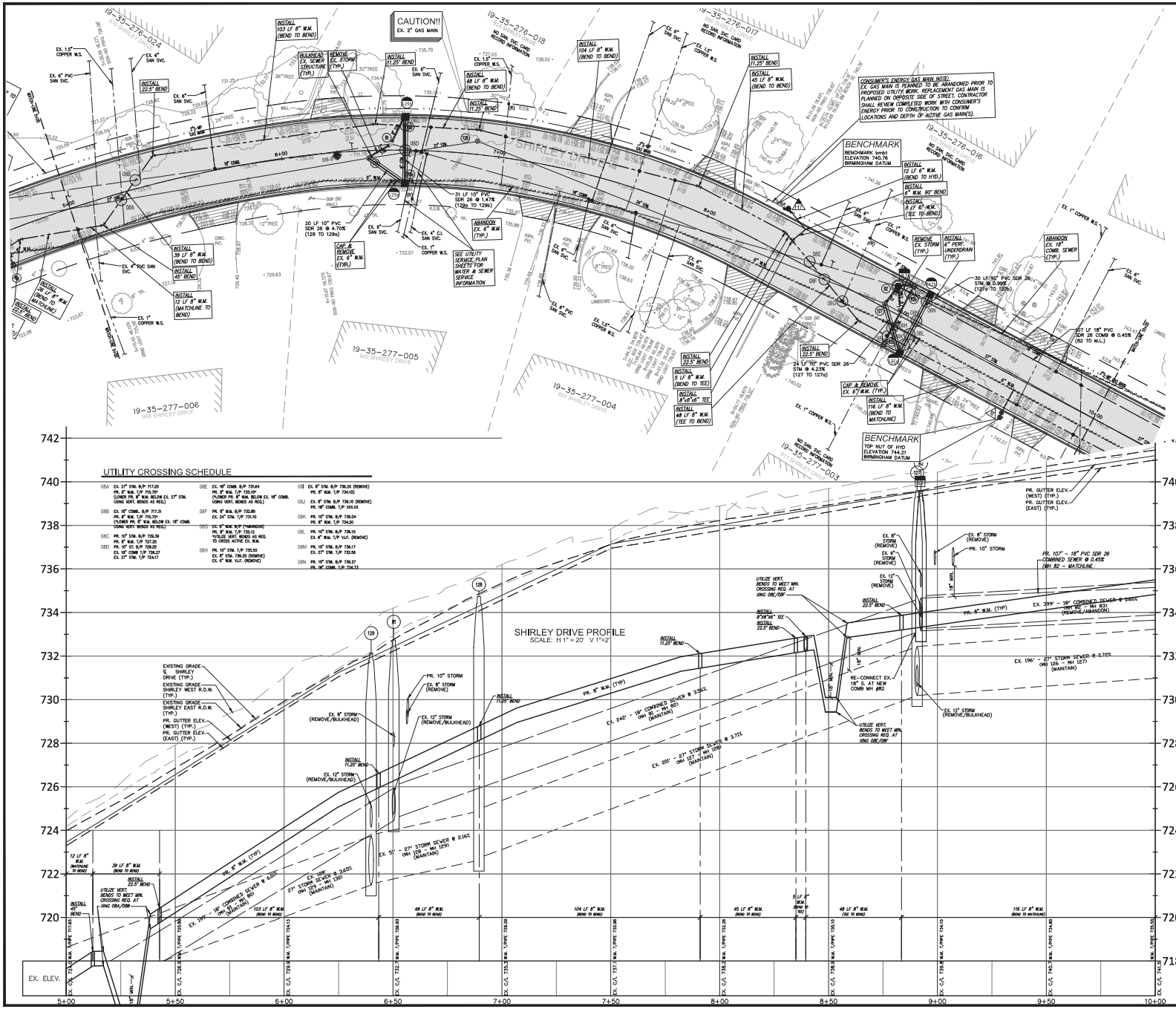
SHEET NO. C07



EX SEWER STRUCTURE SCHEDULE

B1	BULKHEAD & ADJUST 6+50.35 2.90'L COMB. MH. B1 RIM 732.74 PR RIM 732.62 18" N. 724.54 18" S. 724.44 12" SE. 724.74 (REMOVE/BULKHEAD) 8" W. 727.84 (REMOVE/BULKHEAD)	B2	REMOVE & REPLACE 8+92.41 11.56'L COMB. MH. B2 RIM 739.46 18" N. 733.26 (REMOVE/ABANDON) 18" S. 733.16 (RECONNECT) 12" SE. 733.26 8" NW. 735.16 6" NE. 733.86

EX STORM STRUCTURE SCHEDULE

129	TAP, BULKHEAD & ADJUST 6+39.96 3.44'R STORM MH 129 RIM 732.14 PR. RIM 732.10 27" NW. 721.54 12" NW. 724.14 (REMOVE/BULKHEAD) 27" SE. 721.49 PR. 10" N. INV 728.50	128	ADJUST 6+89.49 5.98'L STORM MH 128 RIM 734.73 PR RIM 734.45 27" SE. 722.63 24" NE. 722.73
127	TAP, BULKHEAD & ADJUST 8+90.64 1.60'L STORM MH 127 RIM 739.59 PR RIM 739.72 27" N. 730.19 24" S. 730.19 12" N. 730.59 (REMOVE/BULKHEAD) PR. 10" NE. INV 735.00	82a	REMOVE 9+96.92 14.85'R STORM CB 82a RIM 739.41 8" W. 736.11
B1a	REMOVE 8+56.91 15.46'R STORM CB B1a RIM 732.374 8" W. 729.07	82b	REMOVE 9+98.70 14.97'L STORM CB 82b RIM 739.37 8" SW. 735.52 8" E. 736.27
B1b	REMOVE 6+56.01 14.75'L STORM CB B1b RIM 732.61 12" NE. 728.71 8" E 728.71		

WATER MAIN SCHEDULE

V1	REMOVE 9+61.79 19.75'R HYD 12 F.G. 741.24
A1	HYDRANT & ASSEMBLY STA. 6+51.12' 19.50' L F.G. 739.20 PR. T/PIPE 733.70

UTILITY NOTE

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Storm Drainage Structure Schedule

Structure Name	Structure Details
#127a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 739.69 PR. 10" SW. INV. 736.00 PR. 10" W. INV. 736.00
#127b PR. 2' DIA. STORM INLET	PR. RIM 739.80 PR. 10" E. INV. 736.30
#129a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 732.39 PR. 10" S. INV. 729.45 PR. 10" SW. INV. 729.00
#129b PR. 2' DIA. STORM INLET	PR. RIM 732.75 PR. 10" NE. INV. 729.45

Sanitary Structure Schedule

Structure Name	Structure Details
#82 PR. 4' DIA. COMB. MANHOLE (CONSTRUCT ONLINE EX. 18" S INV. 733.16, V.I.F.)	PR. RIM 739.61 PR. 18" N. INV. 733.16

LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FILL-DEPTH ASPH. (4" MIN ON 6" 21AA)
PR. 10" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
x000.00 GROUND ELEVATION

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FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

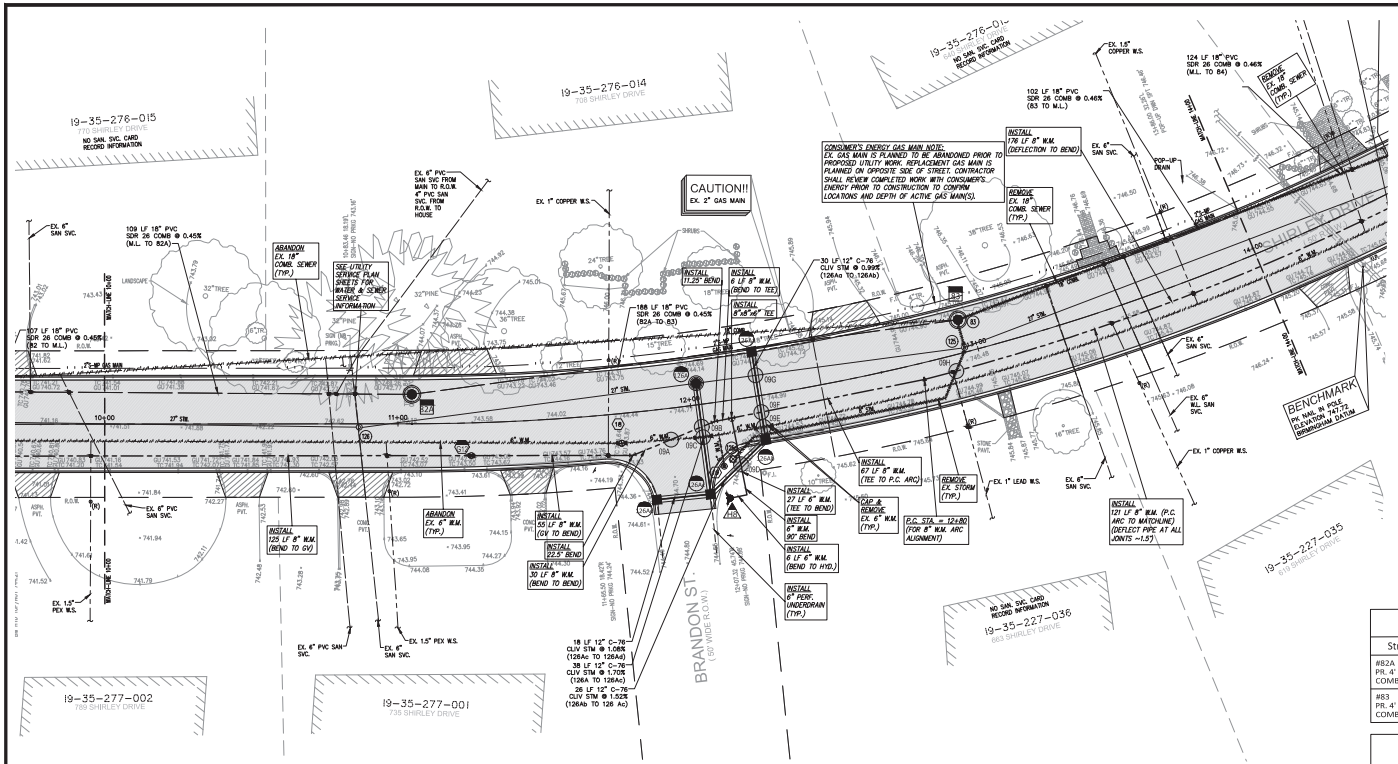
SHEET
Utility Plan Sta 5+00 to 10+00 (Shirley Drive - South)

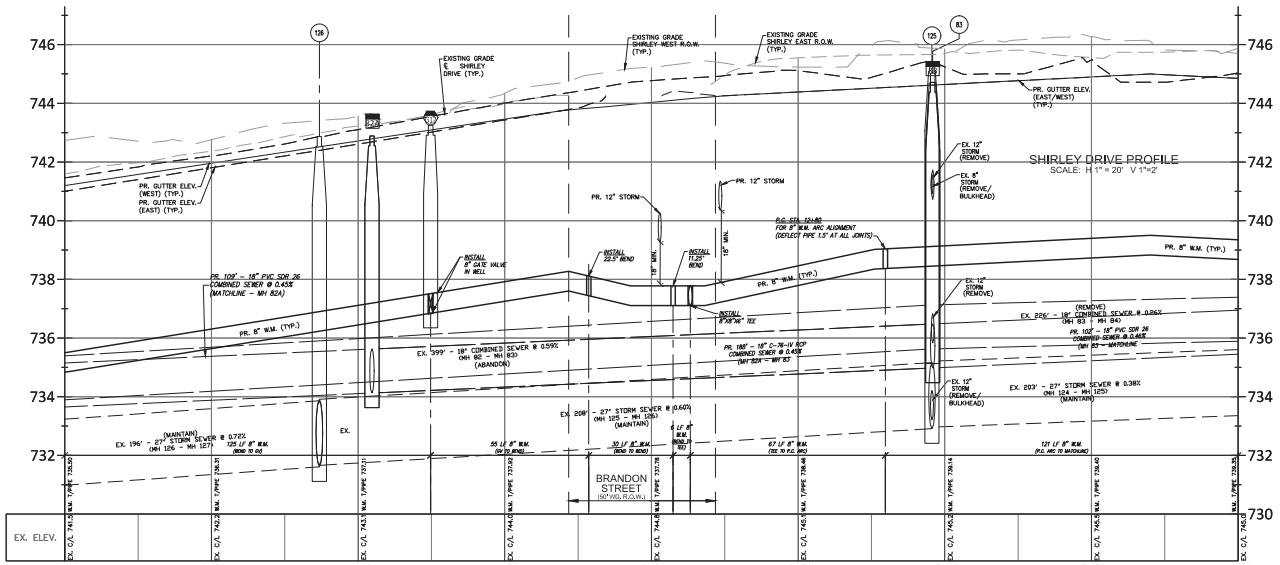
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C08





Sanitary Structure Schedule	
Structure Name	Structure Details
#82A PR. 4' DIA. COMB. MANHOLE	PR. RIM 742.89 PR. 18" S. INV. 734.13 PR. 18" N. INV. 734.13
#83 PR. 4' DIA. COMB. MANHOLE	PR. RIM 744.71 PR. 18" S. INV. 734.98 PR. 18" NW. INV. 734.98

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#126A PR. 5' DIA. STORM MANHOLE (CONSTRUCT ONLINE EX. 27" N/S INV. 732.35, V.I.F.)	PR. RIM 744.24 PR. 12" E. INV. 739.15
#126Aa PR. 2' DIA. STORM INLET	PR. RIM 744.25 PR. 12" E. INV. 740.50
#126Ab PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.25 PR. 12" W. INV. 740.20 PR. 12" SE. INV. 740.20
#126Ac PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.51 PR. 12" NW. INV. 739.80 PR. 12" W. INV. 739.80 PR. 12" S. INV. 739.80
#126Ad PR. 2' DIA. STORM INLET	PR. RIM 744.23 PR. 12" N. INV. 740.00

EX SEWER STRUCTURE SCHEDULE

(83) REMOVE & REPLACE
12+95.83' 11.31'L
COMB MH 83
RIM 745.03
18" NE. 735.63 (REMOVE)
18" SW. 735.63 (ABANDON)
12" E. 735.83 (REMOVE)
12" SW. 740.73 (REMOVE)

EX STORM STRUCTURE SCHEDULE

(126) ADJUST
10+86.78 1.15'R
STORM MH 126
RIM 742.86
PR. RIM 742.75
27" N. 731.66
27" S. 731.61

(125) BULKHEAD & ADJUST
12+95.62 1.63'L
STORM MH 125
RIM 745.41
PR. RIM 744.91
27" N. 732.96
27" S. 732.91
12" W. 733.21 (REMOVE/BULKHEAD)
8" SE. 740.91 (REMOVE/BULKHEAD)

(125a) REMOVE
12+11.73 19.99'R
STORM CB 125a
RIM 744.33
8" NW. 734.43

EX WATER MAIN SCHEDULE

(18) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
11+75 10.12'R
PER RECORD (NOT FOUND)
GATE VALVE 18
RIM 744.10

(19) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
12+08.47 22.01'R
GATE VALVE 19
RIM 744.36

(87) 6" GATE VALVE IN WELL
PR. STA. 12+04.23' 06.39' L
PR. RIM. 743.51
PR. T/PIPE 737.60

HYDRANT & ASSEMBLY
STA. 13+35.55' 17.84L
F.G. 744.80
PR. T/PIPE 739.30

UTILITY CROSSING SCHEDULE

09A EX. 6" W.M. V.I.F. (ABANDON)
PR. 6" W.M. T/P 737.77
*UTILIZE VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.

09B PR. 12" STM. B/P 739.41
PR. 6" W.M. T/P 737.77

09C PR. 12" STM. B/P 739.46
EX. 6" W.M. V.I.F. (REMOVE)

09D 12" STM. B/P 740.02
PR. 6" W.M. T/P 738.50

09E 12" STM. B/P 740.24
EX. 6" W.M. V.I.F. (REMOVE)

09F 12" STM. B/P 740.39
PR. 6" W.M. T/P 737.89

09G 12" STM. B/P 740.42
EX. 27" STM. T/P 734.73

09H EX. 8" STM. V.I.F. (REMOVE)
PR. 8" W.M. T/P 738.09

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LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FILL-DEPTH ASPH. (4" MIN ON 6" 21AA)
- PR. 18" RD. CONC. CURB & GUTTER
- SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
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A WALKABLE CITY
Engineering Department
151 Martin Street
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SHEET
Utility Plan Sta 10+00 to 14+00 (Shirley Drive - South)

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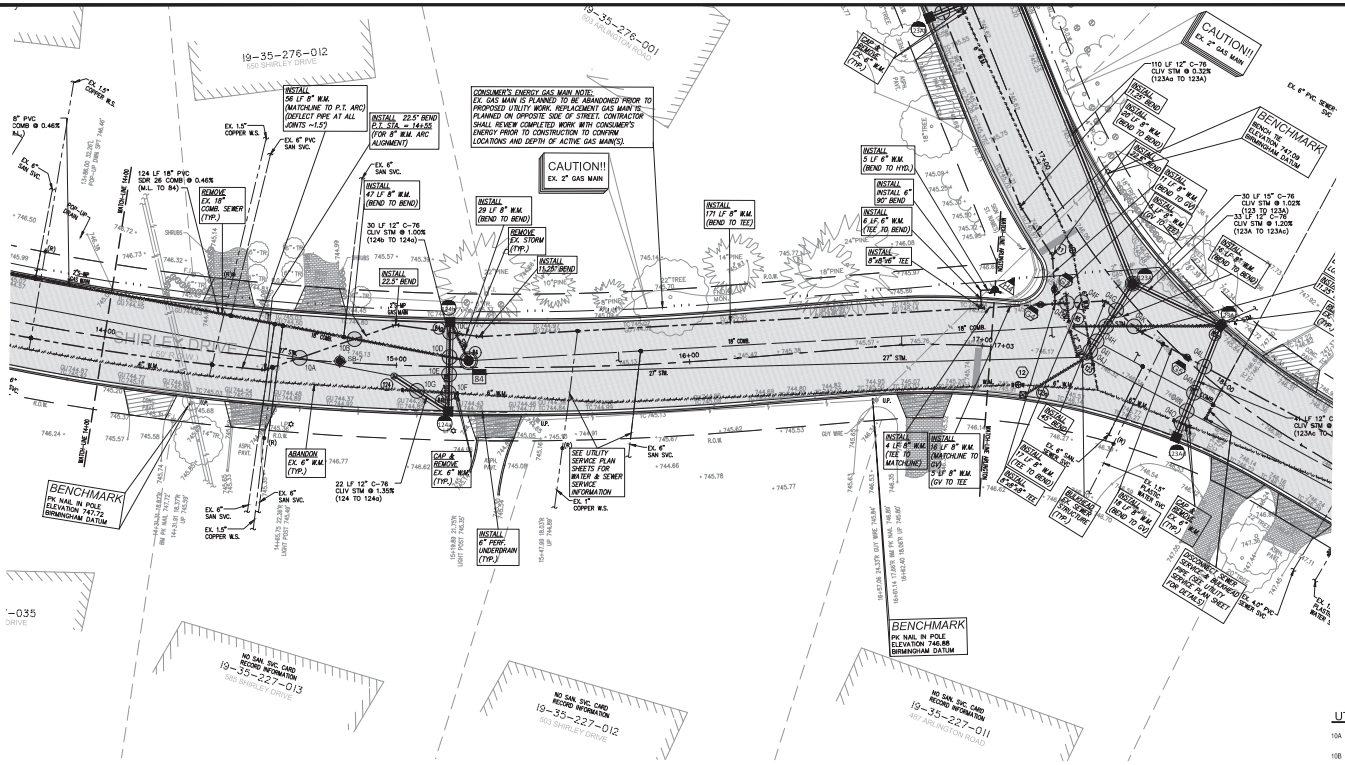
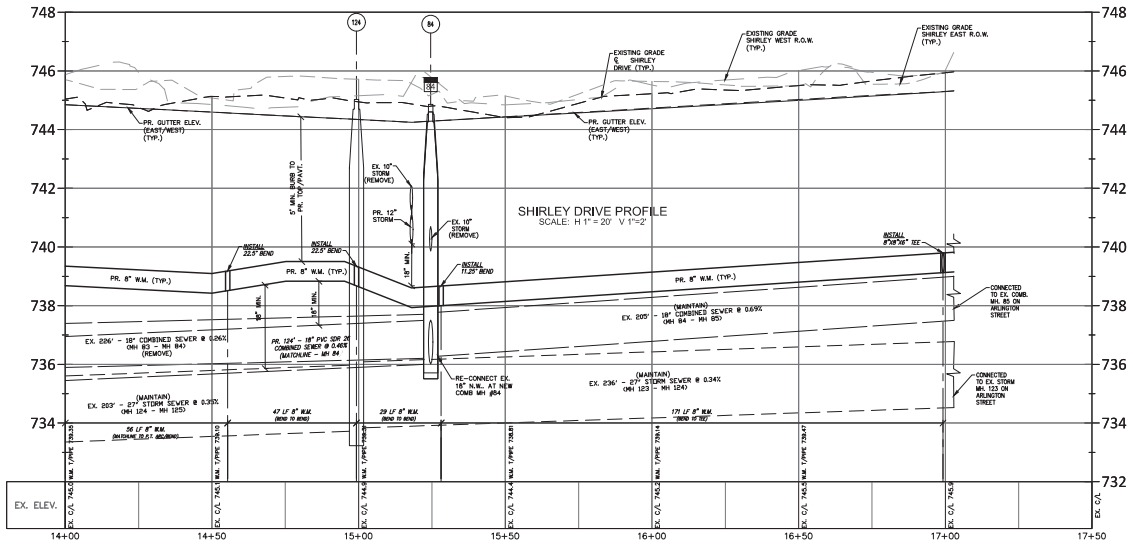
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C09





UTILITY CROSSING SCHEDULE

10A	PR. 8" W.M. B/P 735.70 EX. 27" STM. T/P 735.86	10E	PR. 12" STM. B/P 740.07 EX. 27" STM T/P 736.20
10B	PR. 8" W.M. B/P 738.85 PR. 18" COMB. T/P 737.33	10F	PR. 12" STM. B/P 740.01 EX. 6" W.M. V.I.F. (REMOVE)
10C	PR. 12" STM. B/P 740.21 PR. 8" W.M. T/P 738.60	10G	PR. 12" STM. B/P 739.78 EX. 6" W.M. V.I.F. (REMOVE)
10D	PR. 12" STM. B/P 740.13 PR. 18" COMB. T/P 737.50		

Sanitary Structure Schedule

Structure Name	Structure Details
#84 PR. 4' DIA. COMB. MANHOLE (CONSTRUCT ONLINE EX. 18" NW INV. 736.26, V.I.F.)	PR. RIM 744.60 PR. 18" SE. INV. 736.01

Storm Drainage Structure Schedule

Structure Name	Structure Details
#124a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.30 PR. 12" S. INV. 739.95 PR. 12" SW. INV. 739.95
#124b PR. 2' DIA. STORM INLET	PR. RIM 744.30 PR. 12" NE. INV. 740.25

SEWER STRUCTURE SCHEDULE

(84) REMOVE & REPLACE
15+24.57 2.20'L
COMB. MH. 84
RIM 744.86
18" N. 736.26 (RECONNECT)
18" S. 736.21 (REMOVE)
12" E. 736.66 (REMOVE)
10" W. 739.86 (REMOVE)

STORM STRUCTURE SCHEDULE

(124) TAP & ADJUST
14+99.26 3.72'R
STORM MH 124
RIM 745.03
PR. RIM 744.40
27" N. 733.83
27" S. 733.73
PR. 12" N. INV 739.65 (TAP)

(84a) REMOVE
15+17.88 15.16'L
STORM CB 84a
RIM 744.44
10" E. 740.54
10" NE. 740.44

(84b) REMOVE
15+18.05 14.78'R
STORM CB 84b
RIM 744.28
10" N. 741.96

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EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FILL-DEPTH ASPH. (4" MIN ON 6" 21AA)
PR. 10" RD. CONC. CURB & GUTTER
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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
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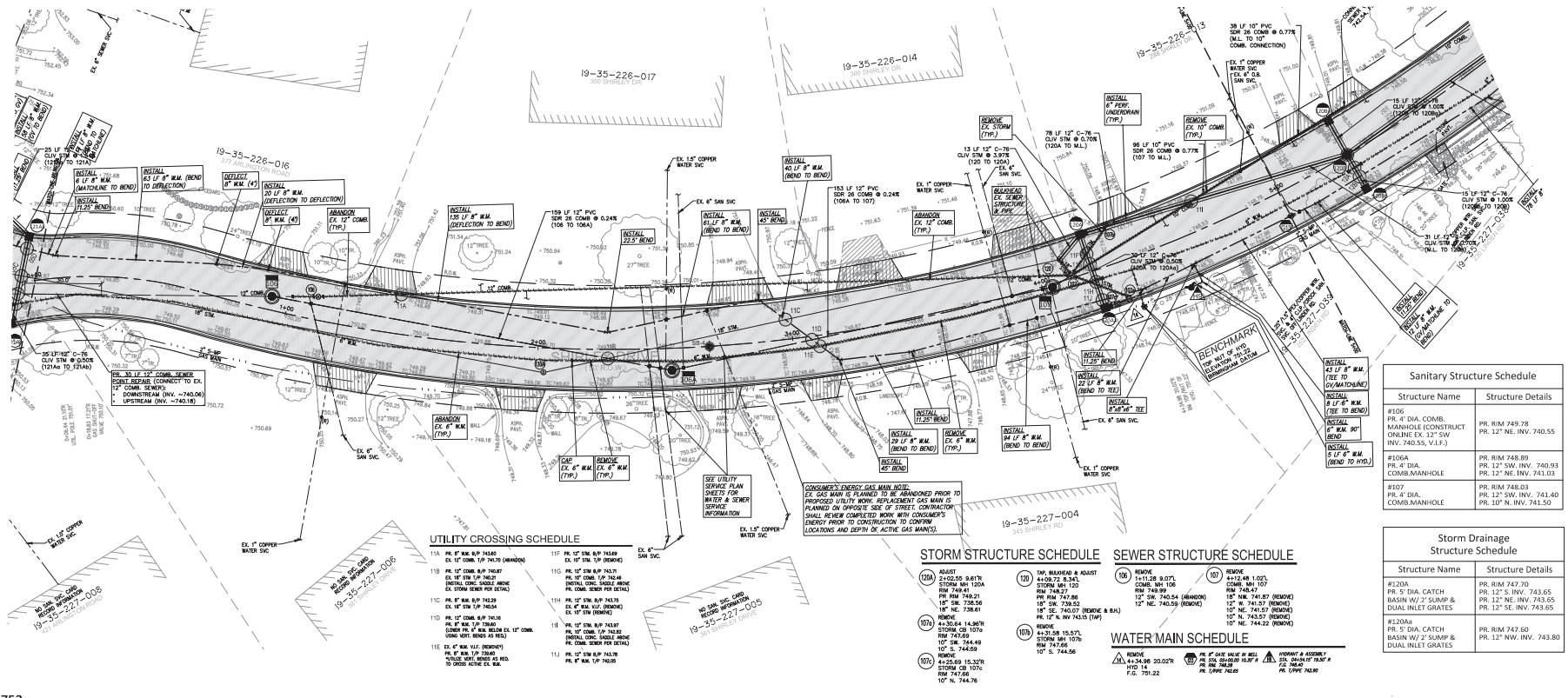
NFE JOB NO. N758
SHEET NO. C10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360 SHIRLEY DR.
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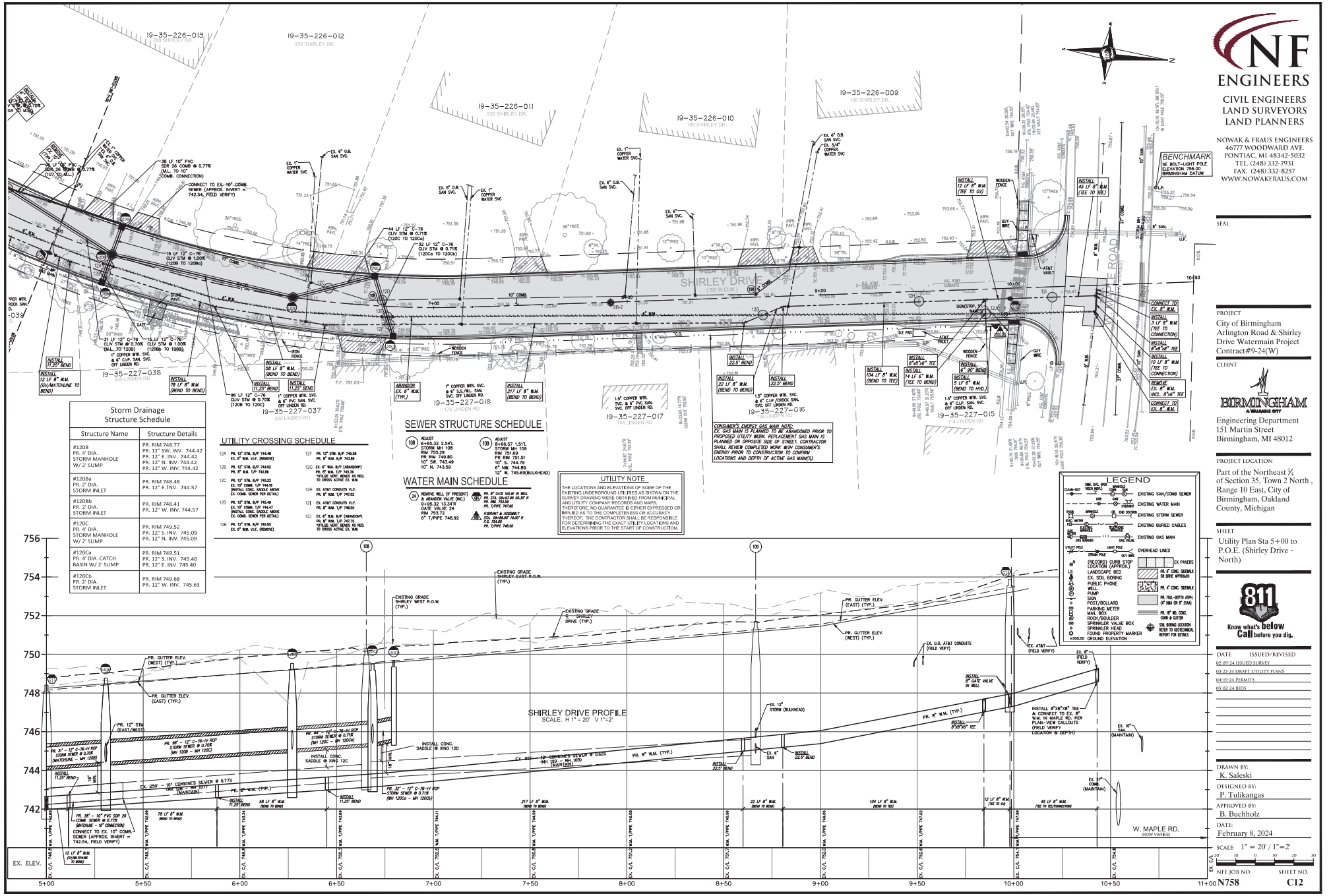
360 SHIRLEY DR.
19-35-227-004
345 SHIRLEY RD
19-35-227-005
351 SHIRLEY DRIVE
19-35-227-006
357 SHIRLEY DRIVE
19-35-227-008
361 ARLINGTON ROAD
19-35-227-030
BENCHMARK
TOP NUT OF HYD. 0.2' EAST OF CL SHIRLEY DR.
ELEV. 751.22
BIRMINGHAM DATUM
PR. 30 LF 12" COMB. SEWER POINT REPAIR (CONNECT TO EX. 12" COMB. SEWER):
• DOWNSTREAM (INV. ~740.06)
• UPSTREAM (INV. ~740.18)
CONSUMER'S ENERGY GAS MAIN NOTE:
EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACEMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).
SEE UTILITY SERVICE PLAN SHEETS FOR WATER & SEWER SERVICE INFORMATION
NO SAN. SVC. CARD RECORD INFORMATION
NO SAN. SVC. CARD RECORD INFORMATION
NO SAN. SVC. CARD RECORD INFORMATION
EX. 6" SAN SVC.
EX. 1" COPPER WATER SVC
EX. 1.5" COPPER WATER SVC
EX. 8" SEWER SRC.
EX. 12" COMB.
EX. 18" STM.
EX. 6" W.M.
EX. GAS MAIN
12" TREE
24" TREE
27" TREE
30" TREE
ASPH. PVT.
CONC. PVT.
GRAVEL
LANDSCAPE
BRICK PVT.
FENCE
BALL
ABANDON EX. 12" COMB. (TYP.)
ABANDON EX. 6" W.M. (TYP.)
CAP EX. 6" W.M. (TYP.)
REMOVE EX. 6" W.M. (TYP.)
REMOVE EX. STORM (TYP.)
REMOVE EX. 10" COMB. (TYP.)
REMOVE EX. 6" W.M. (TYP.)
INSTALL 6" PERF. UNDERDRAIN (TYP.)
INSTALL 6 LF 8" W.M. (MATCHLINE TO BEND)
INSTALL 63 LF 8" W.M. (BEND TO DEFLECTION)
DEFLECT 8" W.M. (4°)
INSTALL 20 LF 8" W.M. (DEFLECTION TO DEFLECTION)
DEFLECT 8" W.M. (4°)
INSTALL 11.25° BEND
INSTALL 135 LF 8" W.M. (DEFLECTION TO BEND)
INSTALL 61 LF 8" W.M. (BEND TO BEND)
INSTALL 22.5° BEND
INSTALL 40 LF 8" W.M. (BEND TO BEND)
INSTALL 45° BEND
INSTALL 29 LF 8" W.M. (BEND TO BEND)
INSTALL 45° BEND
INSTALL 94 LF 8" W.M. (BEND TO BEND)
INSTALL 11.25° BEND
INSTALL 22 LF 8" W.M. (BEND TO TEE)
INSTALL 8"x8"x6" TEE
INSTALL 41 LF 8" W.M. (TEE TO CV/MATCHLINE)
INSTALL 8 LF 8" W.M. (TEE TO BEND)
INSTALL 6" W.M. 90° BEND
INSTALL 5 LF 6" W.M. (BEND TO HYD.)
INSTALL 11.25° BEND
INSTALL 8 LF 8" W.M. (BEND TO MATCHLINE)
INSTALL 6" GATE VALVE IN WELL
INSTALL HYDRANT & ASSEMBLY
INSTALL 8"x8"x6" TEE
INSTALL 11.25° BEND
INSTALL 8" GATE VALVE IN WELL
INSTALL 6" GATE VALVE IN WELL
INSTALL HYDRANT & ASSEMBLY
INSTALL 11.25° BEND
INSTALL 8"x8"x6" TEE
INSTALL 11.25° BEND
INSTALL 8



Storm Drainage Structure Schedule	
Structure Name	Structure Details
#120B PR. 4' DIA. STORM MANHOLE W/ 2' SUMP	PR. RIM 748.77 PR. 12" SW. INV. 744.42 PR. 12" E. INV. 744.42 PR. 12" N. INV. 744.42 PR. 12" W. INV. 744.42
#120Ba PR. 2' DIA. STORM INLET	PR. RIM 748.48 PR. 12" E. INV. 744.57
#120Bb PR. 2' DIA. STORM INLET	PR. RIM 748.41 PR. 12" W. INV. 744.57
#120C PR. 4' DIA. STORM MANHOLE W/ 2' SUMP	PR. RIM 749.52 PR. 12" S. INV. 745.09 PR. 12" N. INV. 745.09
#120Ca PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 749.51 PR. 12" S. INV. 745.40 PR. 12" E. INV. 745.40
#120Cb PR. 2' DIA. STORM INLET	PR. RIM 749.68 PR. 12" W. INV. 745.63

UTILITY CROSSING SCHEDULE

12A PR. 12" STM. B/P 744.48
EX. 6" W.M. V.I.F. (REMOVE)

12B PR. 12" STM. B/P 744.52
PR. 8" W.M. T/P 742.86

12C PR. 12" STM. B/P 745.22
EX. 10" COMB. T/P 744.16
(INSTALL CONC. SADDLE ABOVE EX. COMB. SEWER PER DETAIL)

12D PR. 12" STM. B/P 745.49
EX. 10" COMB. T/P 744.67
(INSTALL CONC. SADDLE ABOVE EX. COMB. SEWER PER DETAIL)

12E PR. 12" STM. B/P 745.65
EX. 6" W.M. V.I.F. (REMOVE)

12F PR. 12" STM. B/P 745.58
PR. 8" W.M. B/P 743.86

12G EX. 6" W.M. B/P (ABANDON?)
PR. 8" W.M. T/P 743.76
*UTILITY VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.

12H EX. AT&T CONDUITS V.I.F.
PR. 8" W.M. T/P 747.02

12I EX. AT&T CONDUITS V.I.F.
PR. 8" W.M. T/P 748.50

12J EX. 6" W.M. B/P (ABANDON?)
PR. 8" W.M. T/P 747.75
*UTILITY VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.

SEWER STRUCTURE SCHEDULE

(108) ADJUST
6+65.32 2.54'L
STORM MH 108
RIM 750.29
PR RIM 749.80
10" SW. 743.49
10" N. 743.59

(109) ADJUST
8+66.57 1.51'L
STORM MH 109
RIM 751.69
PR RIM 751.51
10" S. 744.79
6" NW. 744.89
12" W. 745.69(BULKHEAD)

WATER MAIN SCHEDULE

(24) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
9+95.32 13.34'R
GATE VALVE 24
RIM 753.72
6" T/PIPE 748.92

(101) PR. 6" GATE VALVE IN WELL
PR. STA. 09+87.95 20.28' R
PR. RIM 752.59
PR. I.PIPE 747.95

HYDRANT & ASSEMBLY
STA. 09+89.87 16.00' R
F.G. 754.00
PR. I.PIPE 748.50

UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERSGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CONSUMER'S ENERGY GAS MAIN NOTE:
EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACEMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).

LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
EX PAVERS
PR. 6" CONC. SIDEWALK OR BRICK APPROACH
PR. 4" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (6" MIN OR 8" 23A)
PR. 10" RD. CONC. CURB & GUTTER
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS
x000.00 GROUND ELEVATION

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

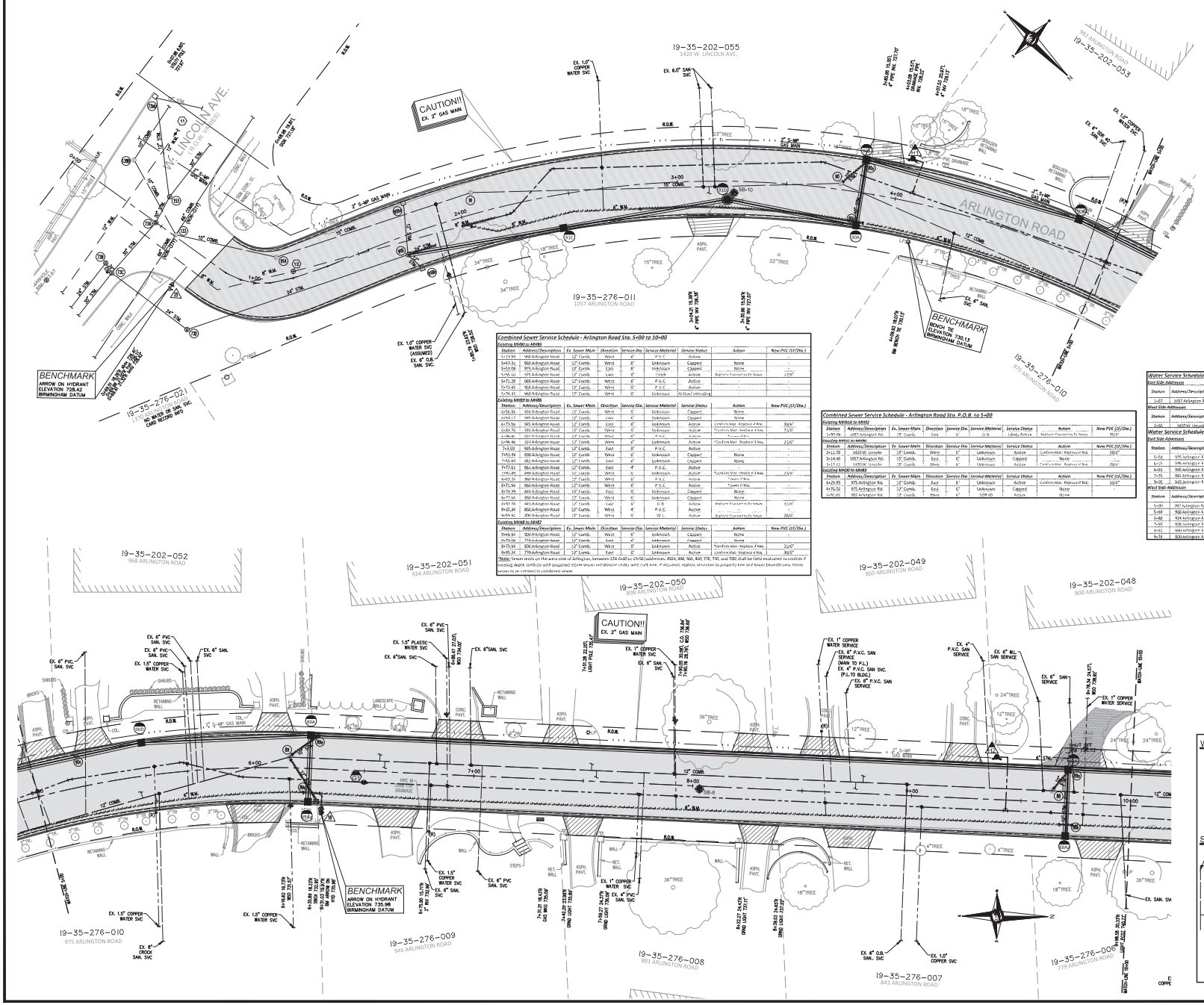
PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 5+00 to P.O.E. (Shirley Drive - North)

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C12



Combined Sewer Service Schedule - Arlington Road Sta. 5+00 to 10+00

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
5+13.93	968 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+43.31	968 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
5+52.08	975 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
5+56.10	975 Arlington Road	12" Comb.	East	6"	Clayp	Active	Replace Connection to Main	17'/6"
5+71.28	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+73.45	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+76.15	908 Arlington Road	12" Comb.	West	6"	Unknown	Active (abandon)	-	-

Existing MH00 to MH05

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
6+56.56	924 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
6+59.17	995 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
6+73.56	945 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Main Replace if Req.	35'/6"
6+80.76	924 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	7'/6"
6+96.86	924 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	*Confirm Main Replace if Req.	-
6+96.86	924 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	23'/6"
7+3.60	945 Arlington Road	12" Comb.	East	6"	P.V.C.	Active	-	-
7+53.39	908 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
7+55.49	881 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
7+77.61	881 Arlington Road	12" Comb.	East	4"	P.V.C.	Active	-	-
7+91.26	908 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	22'/6"
8+03.32	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	*Clean if Req.	-
8+71.94	860 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	*Clean if Req.	-
8+72.79	860 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
8+77.56	860 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
8+97.94	843 Arlington Road	12" Comb.	East	6"	D.I.	Active	Replace Connection to Main	5'/6"
9+25.34	856 Arlington Road	12" Comb.	West	4"	P.V.C.	Active	-	-
9+55.52	856 Arlington Road	12" Comb.	West	6"	W.L.	Active	Replace Connection to Main	28'/6"

Existing MH00 to MH07

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
9+68.56	830 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
9+79.06	779 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
9+79.94	806 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main Replace if Req.	22'/6"
9+96.36	779 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Main Replace if Req.	30'/6"

Note: Sewer leads on the west side of Arlington, between STA 6+00 to 10+50 (addresses: 830, 806, 900, 843, 779, 730, and 700), shall be field evaluated to confirm if existing depth conflicts with proposed storm sewer and whether shallow, semi-cut, or full-cut lead is required. If required, replace structure to properly line and grade beautiful new mains shown in re-connect to combined sewer.

Combined Sewer Service Schedule - Arlington Road Sta. P.O.B. to 5+00

Existing MH00 to MH02

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
1+97.94	1057 Arlington Rd.	15" Comb.	East	6"	D.I.	Likely Active	Replace Connection to Main	35'/6"

Existing MH00 to MH04

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
2+11.78	1420 W. Lincoln	15" Comb.	West	6"	Unknown	Active	Confirm Main Replace if Req.	28'/6"
3+14.40	1057 Arlington Rd.	15" Comb.	East	6"	Unknown	Capped	None	-
3+17.12	1420 W. Lincoln	15" Comb.	West	6"	Unknown	Active	Confirm Main Replace if Req.	28'/6"

Existing MH00 to MH05

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
4+25.95	975 Arlington Rd.	12" Comb.	East	6"	Unknown	Active	Confirm Main Replace if Req.	26'/6"
4+76.01	975 Arlington Rd.	12" Comb.	East	6"	Unknown	Capped	None	-
4+91.40	931 Arlington Rd.	12" Comb.	West	6"	SDR 35	Active	None	-

Water Service Schedule - Arlington Road Sta. P.O.B. to 5+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
1+97	1057 Arlington Rd.	1" Copper	N/A	N/A	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
2+60	1420 W. Lincoln	1" Copper	0	1"	N

Water Service Schedule - Arlington Road Sta. 5+00 to 10+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+56	975 Arlington Rd.	1.5" Copper	77'/1.5"	1.5"	N
6+35	995 Arlington Rd.	1.5" Copper	77'/1.5"	1.5"	N
6+85	945 Arlington Rd.	1.5" Copper	77'/1.5"	1.5"	N
7+70	881 Arlington Rd.	1" Copper	71'/1"	1"	N
8+05	843 Arlington Rd.	1" Copper	61'/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+00	987 Arlington Rd.	1" Copper	0	1"	N
5+68	968 Arlington Rd.	1.5" Copper	0	1.5"	N
6+68	924 Arlington Rd.	1" Plastic	0	1.5"	N
7+93	908 Arlington Rd.	1" Copper	0	1"	N
8+61	860 Arlington Rd.	1" Copper	0	1"	N
9+18	830 Arlington Rd.	1" Copper	0	1"	N

WATER SERVICE LEGEND

- EX. WATER SERVICE (SHOWN PER RECORD, SIZE & MATERIAL VARIES — SEE SCHEDULE)
- EX. OR PR. WATER MAIN
- WATER SERVICE CONNECTION AT MAIN
- INSTALL WATER SERVICE (1" MIN. DIA. WITHIN PUBLIC R.O.W. — SEE SCHEDULE)
- R.O.W. (TYP.)
- EX. STOP-BOX NEAR R.O.W. LIMITS (SHOWN PER RECORD (R))
- INSTALL REPLACEMENT CURB STOP & BOX (WHERE REQ.) FOR NEW WATER SERVICE & RE-CONNECT EX. LINE

SANITARY SERVICE LEGEND

- EX. SANITARY SERVICE (PER RECORD-"ACTIVE")
- EX. OR PR. SEWER MAIN
- PR. SANITARY SERVICE TAP AT NEW MAIN OR CONNECTION TO EX. MAIN (SEE SCHEDULE)
- INSTALL PR. SANITARY SERVICE REPLACEMENT USING MIN. 6" DIA. PVC SDR 23.5 PIPE WITHIN PUBLIC R.O.W (OR PER SCHEDULE) & RE-CONNECT AT R.O.W.
- R.O.W. (TYP.)
- EX. SANITARY SERVICE TAP AT MAIN (PER VIDEO INSPECTION)
- COORDINATE W/ CITY TO PERFORM FIELD INVESTIGATION (PER "EACH" PAY ITEM) AS REQUIRED TO CONFIRM "LIKELY ACTIVE" CONNECTIONS ARE ACTIVE. IF ACTIVE, REVIEW PIPE MATERIAL TO DETERMINE EXTENT OF REPLACEMENT REQUIRED AND CONNECTION REQUIREMENTS AT SEWER MAIN.
- "LIKELY ACTIVE" OR
- "NOT ACTIVE-CAPPED"

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PROJECT LOCATION
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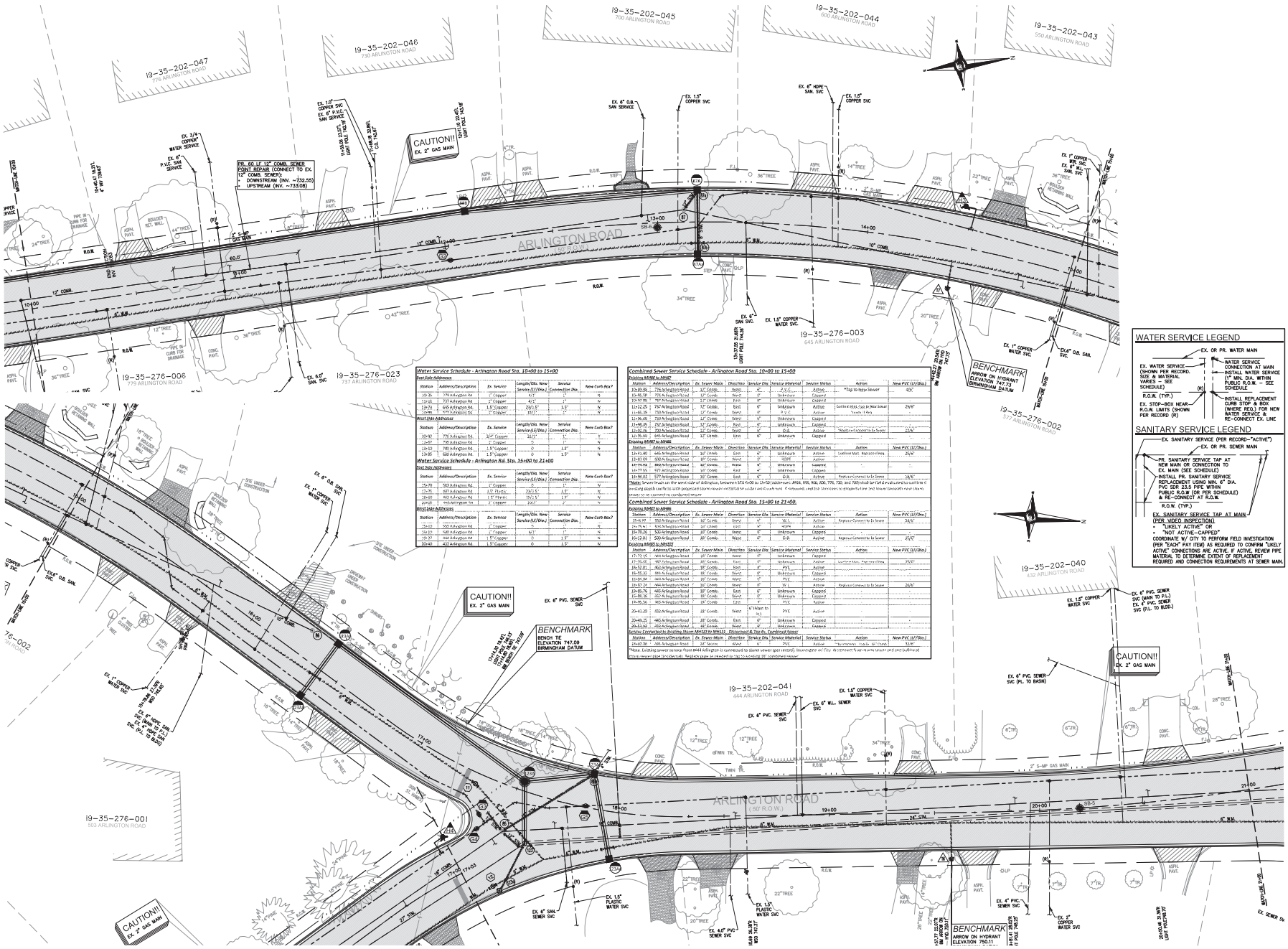
SHEET
Utility Service Plan Sta P.O.B. to 10+00 (Arlington Drive)

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: G. Sajeski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C13



Water Service Schedule - Arlington Road Sta. 10+00 to 15+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
10+35	779 Arlington Rd	1" Copper	4'/1"	1"	N
13+18	737 Arlington Rd	1" Copper	4'/1"	1"	N
13+73	645 Arlington Rd.	1.5" Copper	29'/1.5"	1.5"	N
15+06	577 Arlington Rd	1" Copper	10'/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
10+92	776 Arlington Rd	3/4" Copper	31'/1"	1"	Y
11+47	730 Arlington Rd	1" Copper	0	1"	N
13+33	707 Arlington Rd	1.5" Copper	0	1.5"	N
13+85	660 Arlington Rd	1.5" Copper	0	1.5"	N

Water Service Schedule - Arlington Rd. Sta. 15+00 to 21+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
15+79	503 Arlington Rd	1" Copper	0	1"	N
17+75	487 Arlington Rd	1.5" Plastic	29'/1.5"	1.5"	N
18+61	460 Arlington Rd	1.5" Plastic	19'/1.5"	1.5"	N
19+05	445 Arlington Rd	1" Copper	22'/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
15+83	550 Arlington Rd	1" Copper	0	1"	N
16+23	520 Arlington Rd	1" Copper	6'/1"	1"	N
16+72	468 Arlington Rd	1.5" Copper	0	1.5"	N
20+40	432 Arlington Rd	1.5" Copper	0	1.5"	N

Combined Sewer Service Schedule - Arlington Road Sta. 10+00 to 15+00

Existing MH#1 to MH#2

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
10+35.36	776 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Tap to New Sewer	40'/6"
10+92.98	776 Arlington Road	12" Comb.	West	6"	Unknown	Capped	-	-
11+18.98	737 Arlington Road	12" Comb.	East	6"	Unknown	Capped	-	-
11+22.25	737 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Abd. Tap to New Sewer	29/6"
11+85.38	730 Arlington Road	12" Comb.	West	6"	R.I.P.	Active	*Needs 1 Rep.	-
11+96.85	730 Arlington Road	12" Comb.	West	6"	Unknown	Capped	-	-
11+98.25	707 Arlington Road	12" Comb.	East	6"	Unknown	Capped	-	-
13+32.96	707 Arlington Road	12" Comb.	West	6"	O.B.	Active	*Replace w/ Lateral to Ex Sewer	22'/6"
13+35.91	645 Arlington Road	12" Comb.	East	6"	Unknown	Capped	-	-

Existing MH#2 to MH#3

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
13+41.90	645 Arlington Road	18" Comb.	East	6"	Unknown	Active	Confirm Abd. Replace if Req.	25/6"
13+81.04	630 Arlington Road	18" Comb.	West	6"	8"PVC	Active	-	-
14+94.88	860 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
14+97.55	577 Arlington Road	18" Comb.	East	6"	Unknown	Capped	-	-
14+98.63	577 Arlington Road	18" Comb.	East	6"	O.B.	Active	Replace/Connect to Ex Sewer	28/6"

*Note: Sewer main on the west side of Arlington, between STA 6+00 to 15+50 (addresses: #616, 701, 702, 730, 776, 730, and 707) should be field evaluated to confirm if existing depth conflicts with proposed storm sewer installation under each curb tank. If required, replace laterals to property line and sewer beneath new storm sewer to re-connect to combined sewer.

Combined Sewer Service Schedule - Arlington Road Sta. 15+00 to 21+00.

Existing MH#3 to MH#4

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
15+8.39	550 Arlington Road	18" Comb.	West	6"	O.I.	Active	Replace/Connect to Ex Sewer	76/6"
15+75.41	510 Arlington Road	18" Comb.	East	6"	8"PVC	Active	-	-
16+78.26	530 Arlington Road	18" Comb.	West	8"	Unknown	Capped	-	-
16+128.1	520 Arlington Road	18" Comb.	West	8"	O.B.	Active	Replace/Connect to Ex Sewer	45/6"

Existing MH#3 to MH#5

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
17+72.15	503 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
17+76.25	487 Arlington Road	18" Comb.	East	6"	Unknown	Confirm Abd. Replace if Req.	3'/6"	
18+52.81	462 Arlington Road	18" Comb.	East	8"	PVC	Active	-	-
18+52.83	532 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
18+85.96	468 Arlington Road	18" Comb.	West	6"	PVC	Active	-	-
19+37.24	444 Arlington Road	18" Comb.	West	8"	PVC	Active	Replace/Connect to Ex Sewer	26/8"
19+85.76	445 Arlington Road	18" Comb.	East	6"	Unknown	Capped	-	-
19+88.36	432 Arlington Road	18" Comb.	West	6"	Unknown	Capped	-	-
19+95.76	401 Arlington Road	18" Comb.	East	6"	PVC	Active	-	-

Service Connected to Existing Storm MH#22 to MH#21 - Disconnect & Tap Ex. Combined Sewer

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
20+07.28	444 Arlington Road	24" Storm	West	6"	PVC	Active	*Disconnect & Tap to 18" Comb.	52/6"

*Note: Existing sewer service lead information is estimated to storm sewer (per record). Investigate w/ City. Abandon/Cap non-storm sewer and sump pump/lead from sewer prior to install. Replace pipe as needed to tap to existing 18" combined sewer.

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
20+21.20	432 Arlington Road	18" Comb.	West	6" Object to Inch	PVC	Active	-	-
20+49.25	445 Arlington Road	18" Comb.	East	6"	Unknown	Capped	-	-
20+53.60	432 Arlington Road	48" Storm	West	6"	Unknown	Capped	-	-

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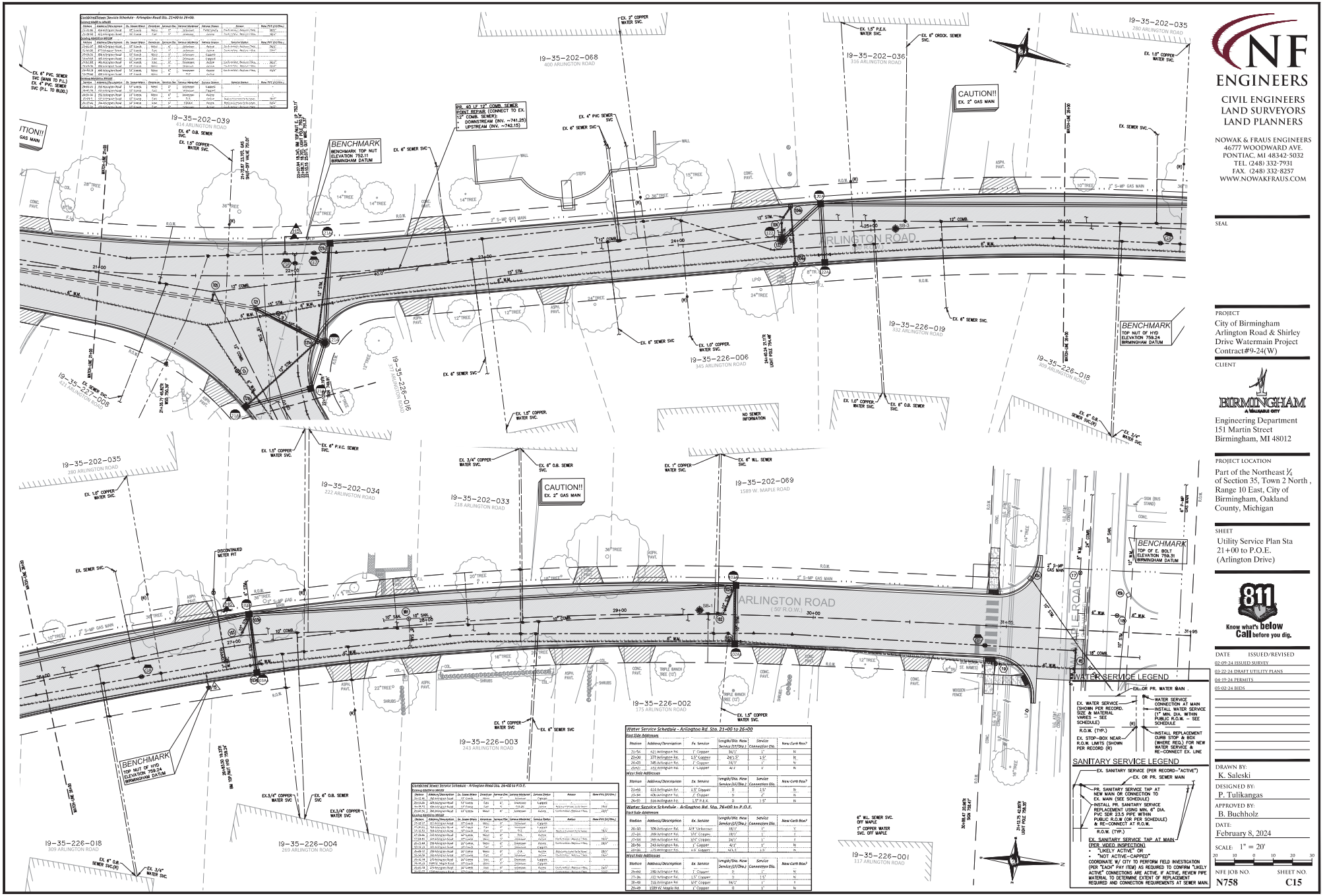
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C14



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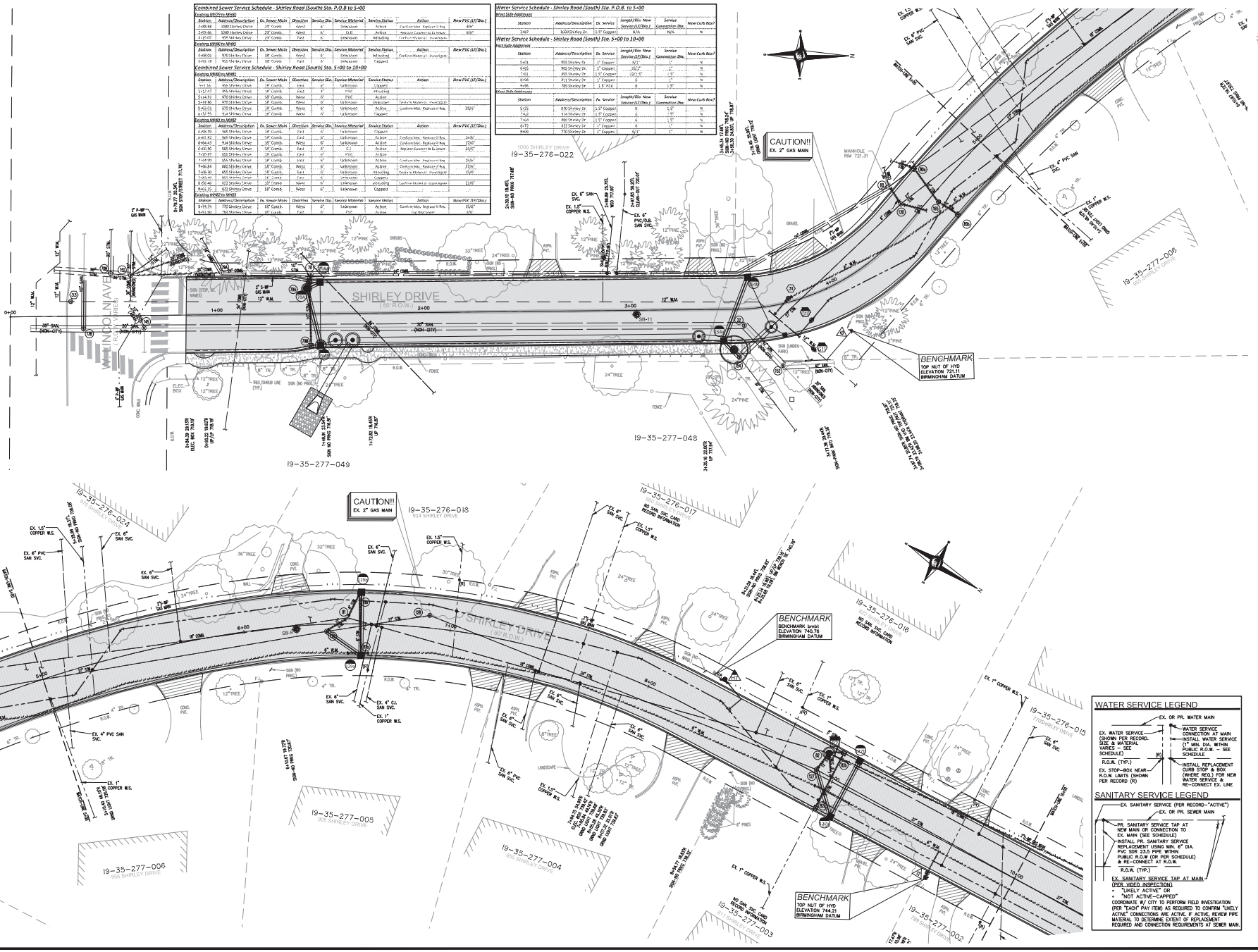
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C15

8B



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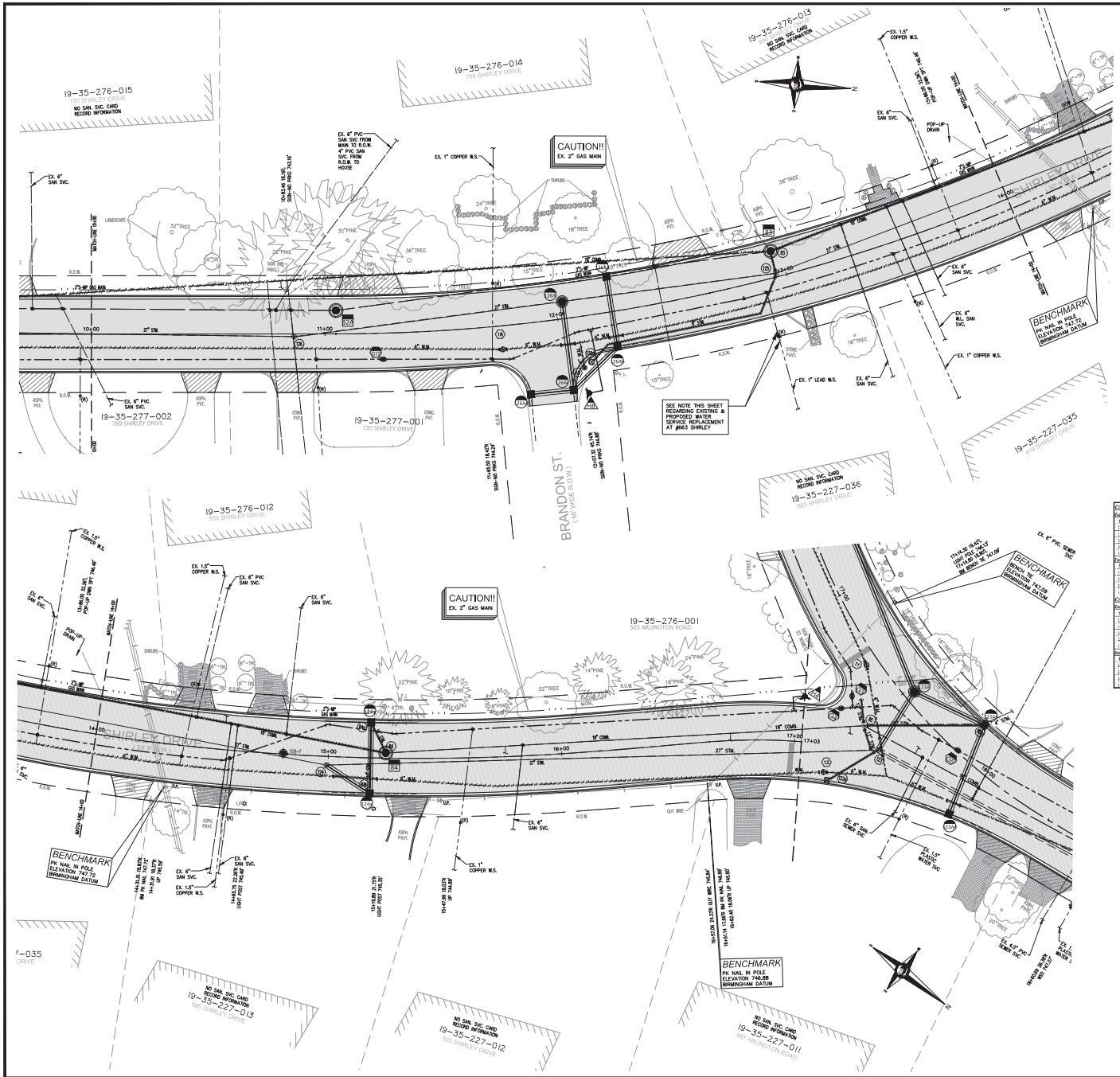
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'
20 10 0 10 20 30
NFE JOB NO. N758
SHEET NO. C16



Water Service Schedule - Shirley Road (South) Sta. 10+00 to 14+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
10+98	735 Shirley Dr	1" PVC	0	1.5"	N
11+40	7463 Shirley Dr *	1" Lead	30'/1"	1"	Y
13+48.7	619 Shirley Dr	1" Copper	4/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
11+71	708 Shirley Dr	1" Copper	5/1"	1"	N
13+75	640 Shirley Dr	1.5" Copper	0	1.5"	N

*Note: Records indicate a lead water service at 6663 Shirley likely exists between ROW and main, but may have previously been replaced with copper material between the ROW and house meter. Inspection to other work items on the contract, and in advance of the water main replacement work, the Contractor shall perform inspection excavation on both the west of the stub off valve near the ROW to confirm materials on each side, and shall be prepared to replace both "public" and "private" portions of the service line using applicable pay items for each. If required, replacement of the "private" portion of the service line between the ROW and house meter shall be paid using the following pay items: "New Water Service", c. Private Property/Bounds .PPB", and "Water Service Connection ,1" Connection at Meter, 663 Shirley".

Water Service Schedule - Shirley Road (South) Sta. 14+00 to P.O.E.

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
14+59	565 Shirley Dr	1.5" Copper	6/1.5"	1.5"	N
15+02	559 Shirley Dr	1" Copper	24/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
14+38	550 Shirley Dr	1.5" Copper	0	1.5"	N

Combined Sewer Service Schedule - Shirley Road (South) Sta. 10+00 to 14+00

Existing MH02 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
10+76.52	738 Shirley Drive	18" Comb.	East	6"	PVC	Active	Tap into New Sewer	6'/6"
10+96.04	708 Shirley Drive	18" Comb.	West	4" VC	VCC	Active	Existing to Log Form Sewer	12'/4"
10+52.10	726 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
11+65.48	720 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	30'/6"
13+48.98	619 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Material, Investigate	51'/6"

Existing MH02 to MH04

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
13+38.27	663 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	40'/6"
13+89.79	639 Shirley Drive	18" Comb.	East	6"	W.L.	Active	Replace Tap to Sewer	5'/6"
14+52.31	619 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	42/6"
15+71.00	565 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat., Replace if Req.	59/6"

Combined Sewer Service Schedule - Shirley Road (South) Sta. 14+00 to P.O.E

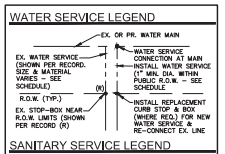
Existing MH02 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
14+42.16	550 Shirley Drive	18" Comb.	West	6"	PVC	Active	Tap into New Sewer	6/6"
14+59.09	550 Shirley Drive	18" Comb.	West	6"	Unknown	Capped	-	-
14+57.39	565 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	31'/6"
14+60.20	550 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	36/6"
14+17.46	550 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat., Replace if Req.	26/6"

Existing MH04 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
15+75.95	559 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
15+61.46	563 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	30/6"
16+72.55	587 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
17+26.07	587 Arlington Rd.	18" Comb.	East	6"	Unknown	Capped	-	-

WATER SERVICE LEGEND



SANITARY SERVICE LEGEND

NF ENGINEERS
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
Birmingham, MI 48012

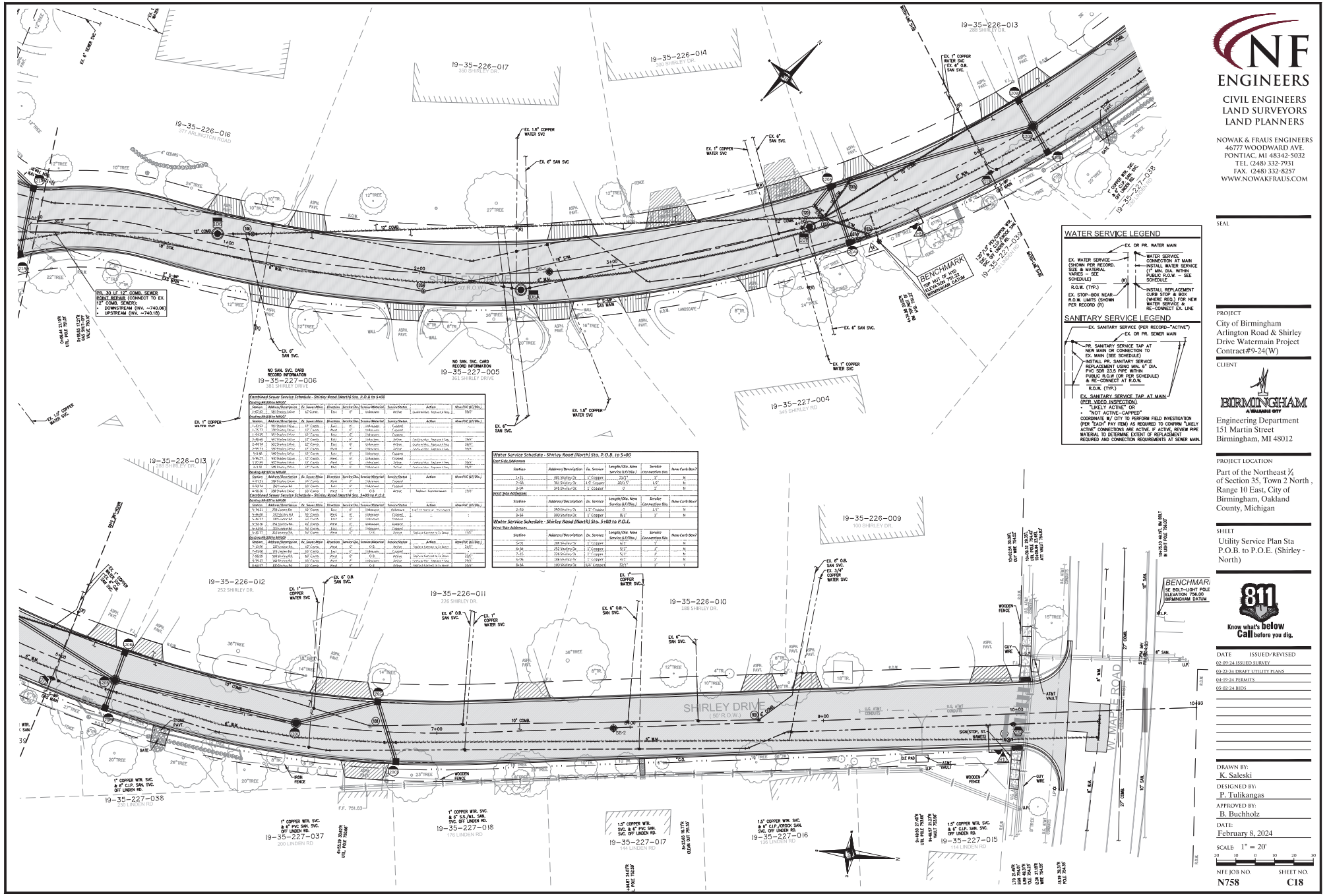
PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Service Plan Sta 10+00 to P.O.E. (Shirley - South)

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'
20 10 0 10 20 30
NFE JOB NO. N758
SHEET NO. C17



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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Service Plan Sta P.O.B. to P.O.E. (Shirley - North)

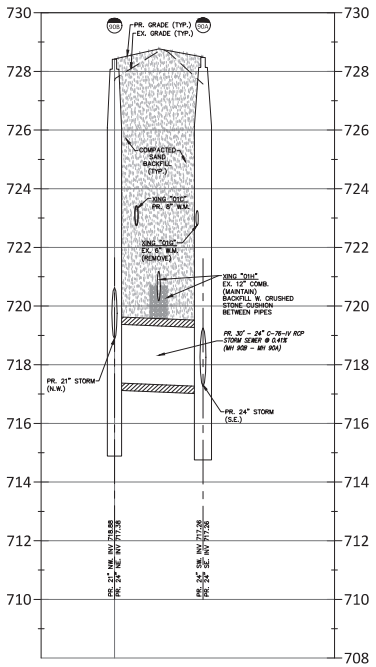
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

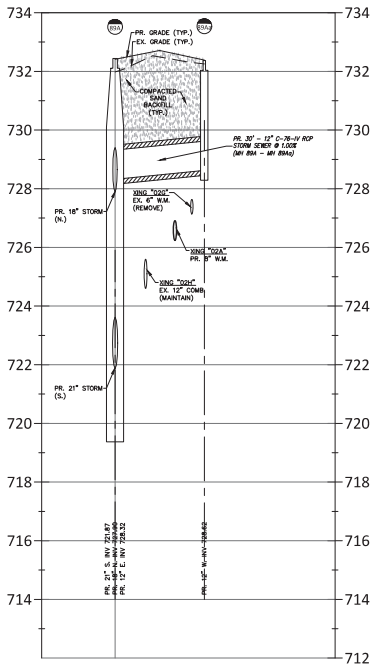
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C18

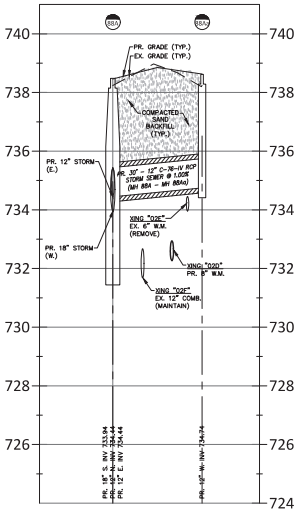
8B



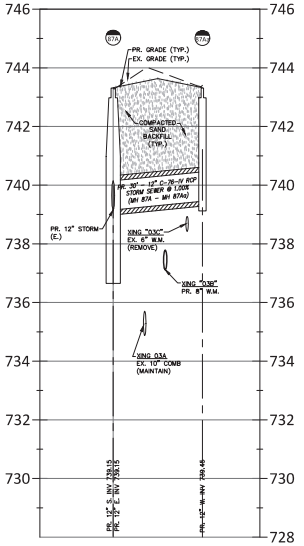
STORM PROFILE 90B-90A (STA. 03+84, SHEET C01)



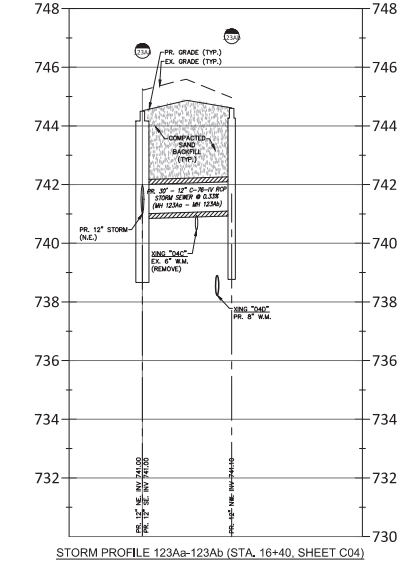
STORM PROFILE 89A-89Aa (STA. 07+25, SHEET C02)



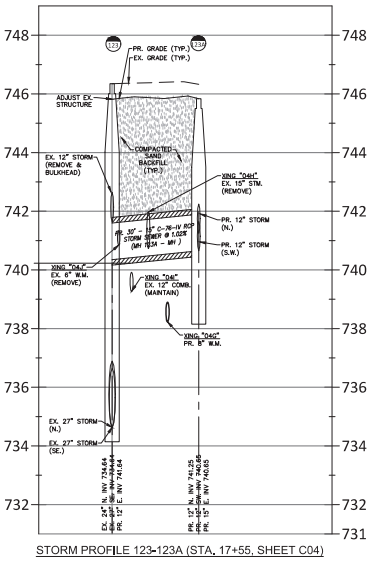
STORM PROFILE 88A-88Aa (STA. 09+70, SHEET C02)



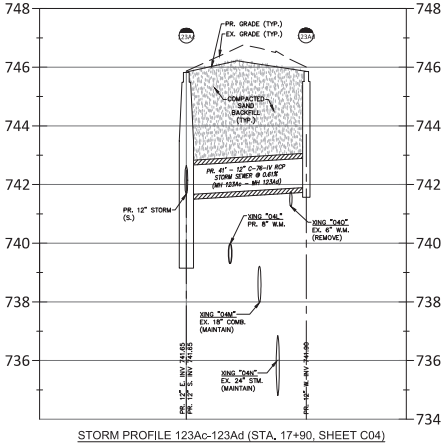
STORM PROFILE 87A-87Aa (STA. 13+18, SHEET C03)



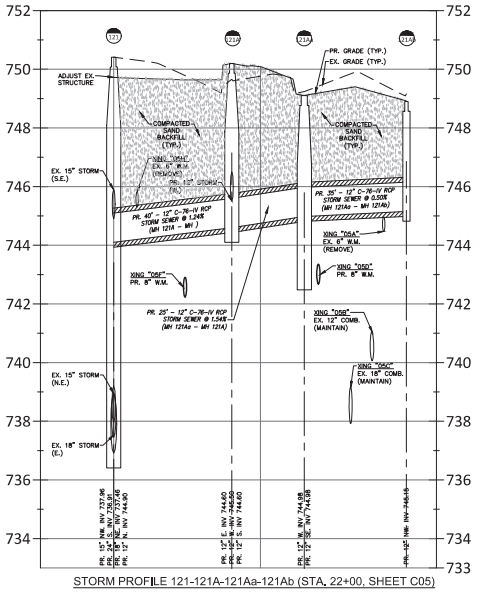
STORM PROFILE 123Aa-123Ab (STA. 16+40, SHEET C04)



STORM PROFILE 123-123A (STA. 17+55, SHEET C04)



STORM PROFILE 123Ac-123Ad (STA. 17+90, SHEET C04)



STORM PROFILE 121-121A-121Aa-121Ab (STA. 22+00, SHEET C05)

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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

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151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Storm Sewer Profiles - Arlington Road (1 of 2)

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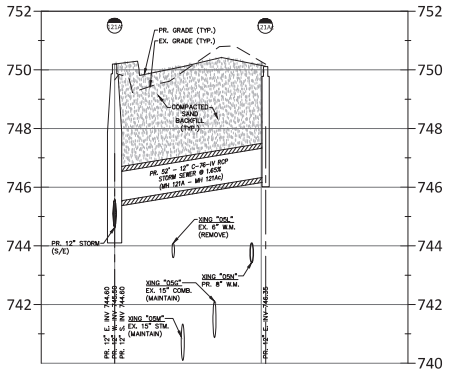
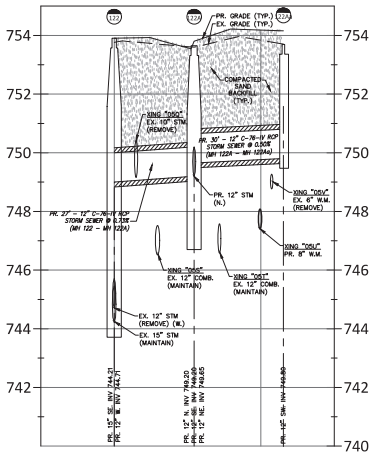
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

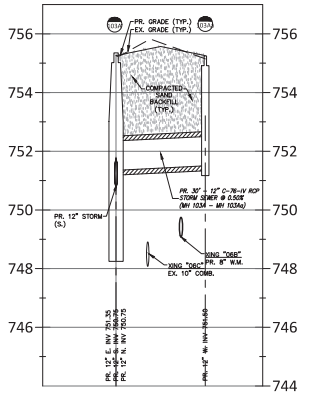
NFE JOB NO. N758
SHEET NO. C19



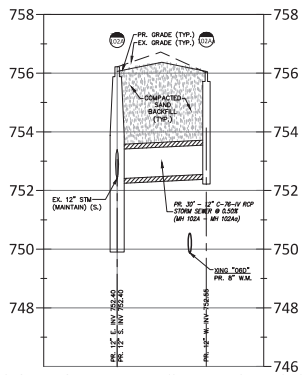
STORM PROFILE 121A-12Ac (STA. 22+19, SHEET C05)



STORM PROFILE 122-122A-122Aa (STA. 24+75, SHEET C05)



STORM PROFILE 103A-103Aa (STA. 27+10, SHEET C06)



STORM PROFILE 102A-102Aa (STA. 29+60, SHEET C06)

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SHEET
Storm Sewer Profiles - Arlington Road (2 of 2)

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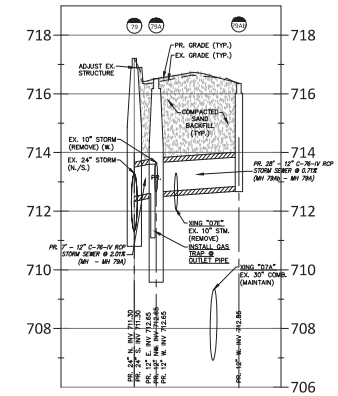
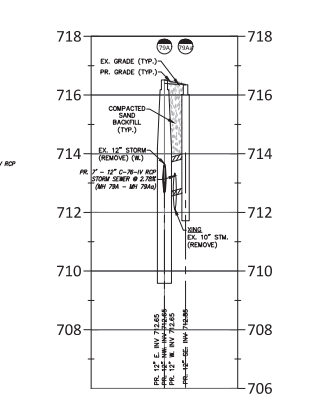
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

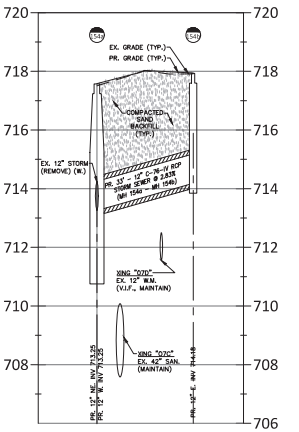
NFE JOB NO. N758
SHEET NO. C20



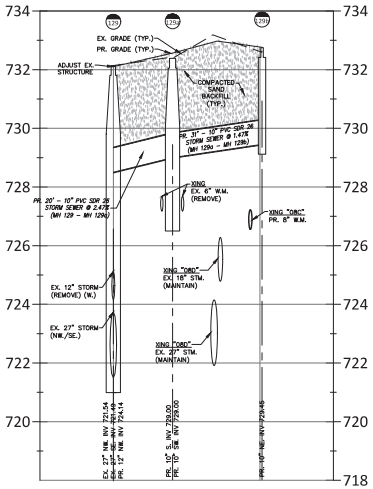
STORM PROFILE 79-79A-79Ab (STA. 01+45, SHEET C07)



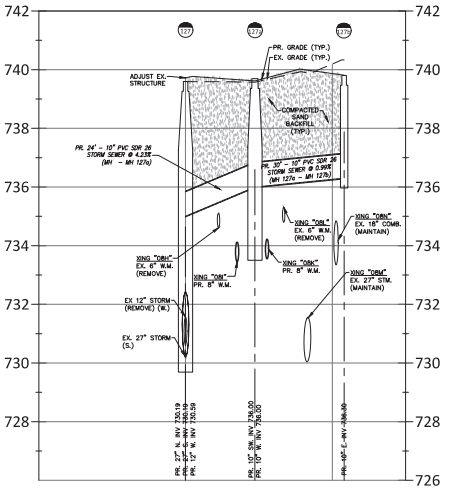
STORM PROFILE 79A-79Aa (STA. 01+45, SHEET C07)



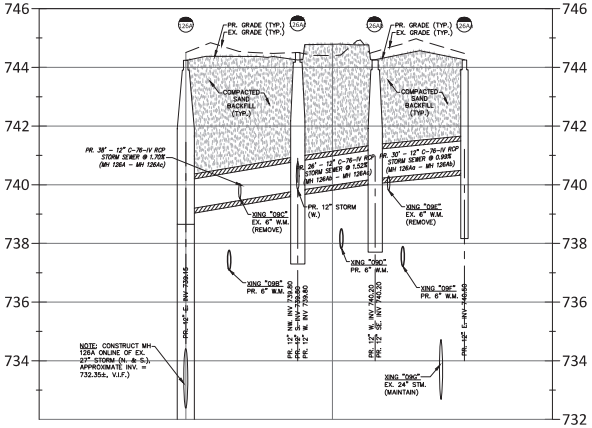
STORM PROFILE 154a-154b (STA. 03+50, SHEET C07)



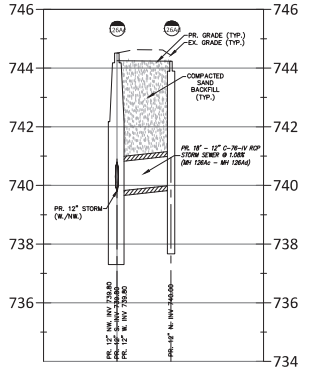
STORM PROFILE 129-129a-129b (STA. 06+60, SHEET C08)



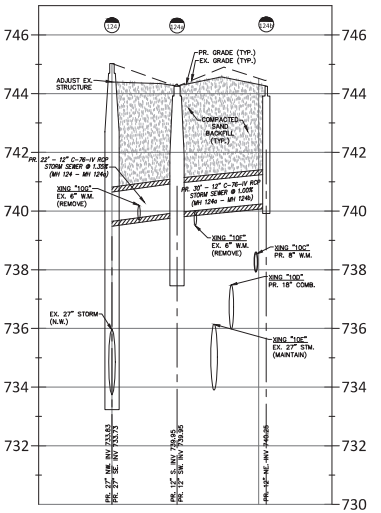
STORM PROFILE 127-127a-127b (STA. 09+00, SHEET C08)



STORM PROFILE 126A-126Ac-126Ab-126Aa (STA. 12+00, SHEET C09)



STORM PROFILE 126Ac-126Ad (STA. 12+00, SHEET C09)



STORM PROFILE 126Ac-126Ad (STA. 15+18, SHEET C10)

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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Storm Sewer Profiles - Shirley Drive (1 of 2)

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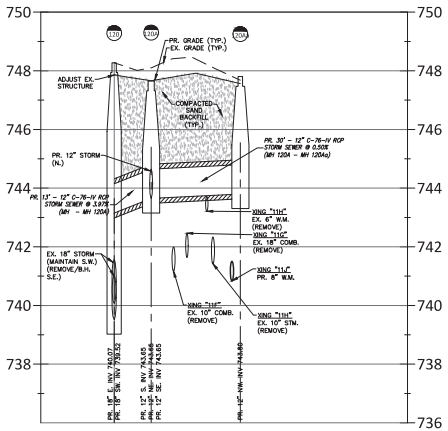
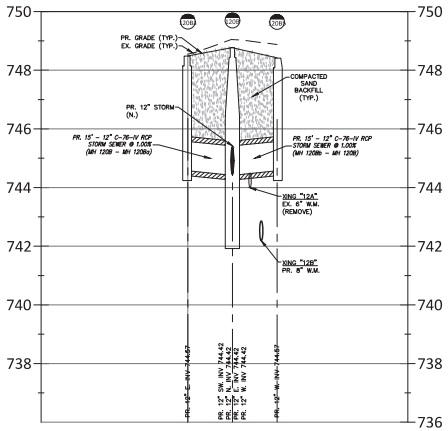
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

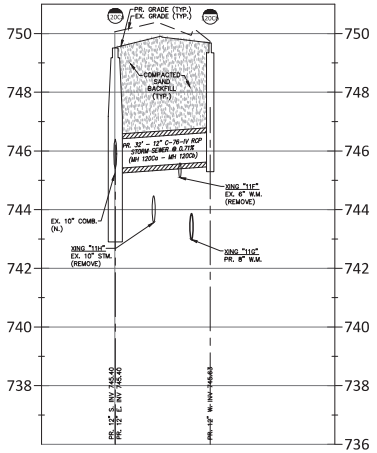
NFE JOB NO. N758
SHEET NO. C21



STORM PROFILE 120-120A-120Aa (STA. 04+20, SHEET C11)



STORM PROFILE 120Ba-120B-120Bb (STA. 05+30, SHEET C12)



STORM PROFILE 120Ca-120Cb (STA. 06+75, SHEET C12)

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SHEET
Storm Sewer Profiles - Shirley Drive (2 of 2)

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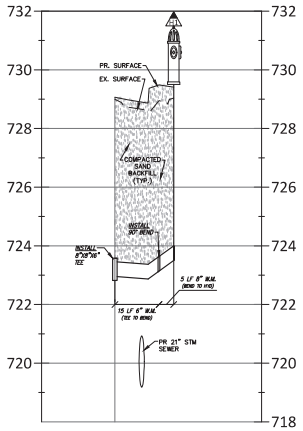
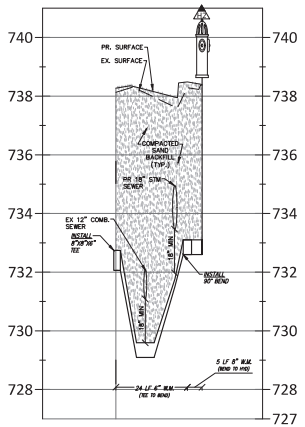
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'
20 10 0 10 20 30
NFE JOB NO. N758
SHEET NO. C22



HYDRANT #1 PROFILE (STA. 4+07, SHEET C01)



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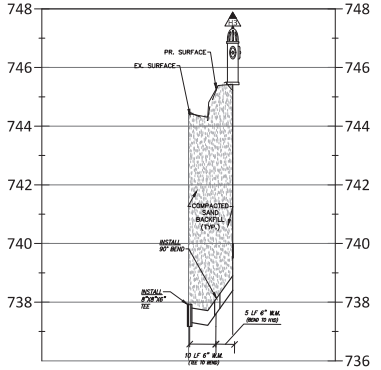

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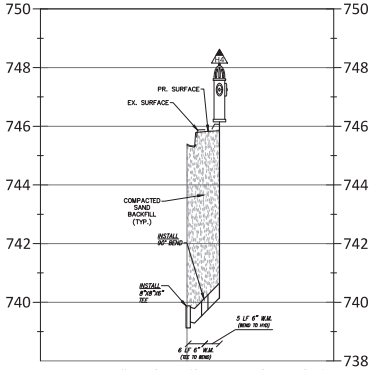
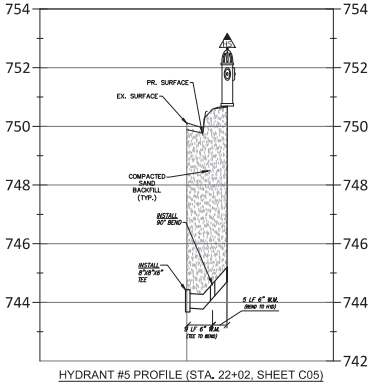


HYDRANT #4 PROFILE (STA. 17+28, SHEET C04)



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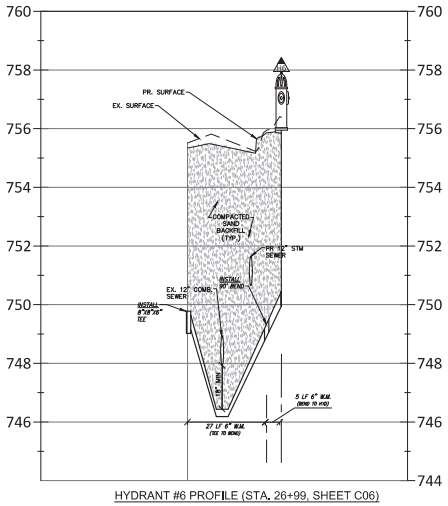

HYDRANT #6 PROFILE (STA. 26+99, SHEET C06)

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Hydrant Lead Profiles - Arlington Road

811
Know what's below
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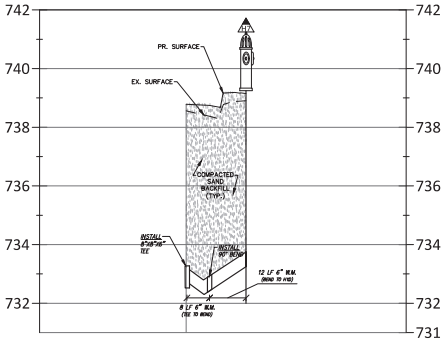
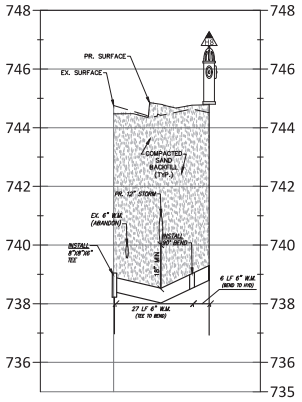
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

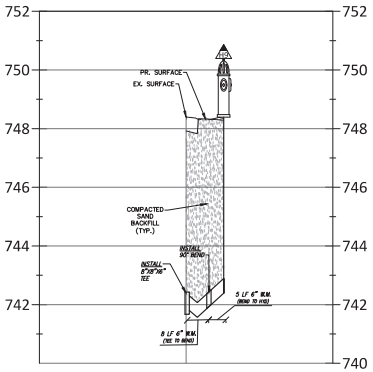
NFE JOB NO. N758
SHEET NO. C23



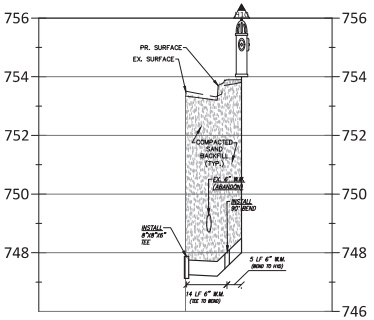
HYDRANT #7 PROFILE (STA. 08+31, SHEET C08)



HYDRANT #8 PROFILE (STA. 13+31, SHEET C09)



HYDRANT #9 PROFILE (STA. 04+54, SHEET C11)



HYDRANT #10 PROFILE (STA. 09+90, SHEET C12)

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City of Birmingham
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BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
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PROJECT LOCATION
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SHEET
Hydrant Lead Profiles - Shirley Drive

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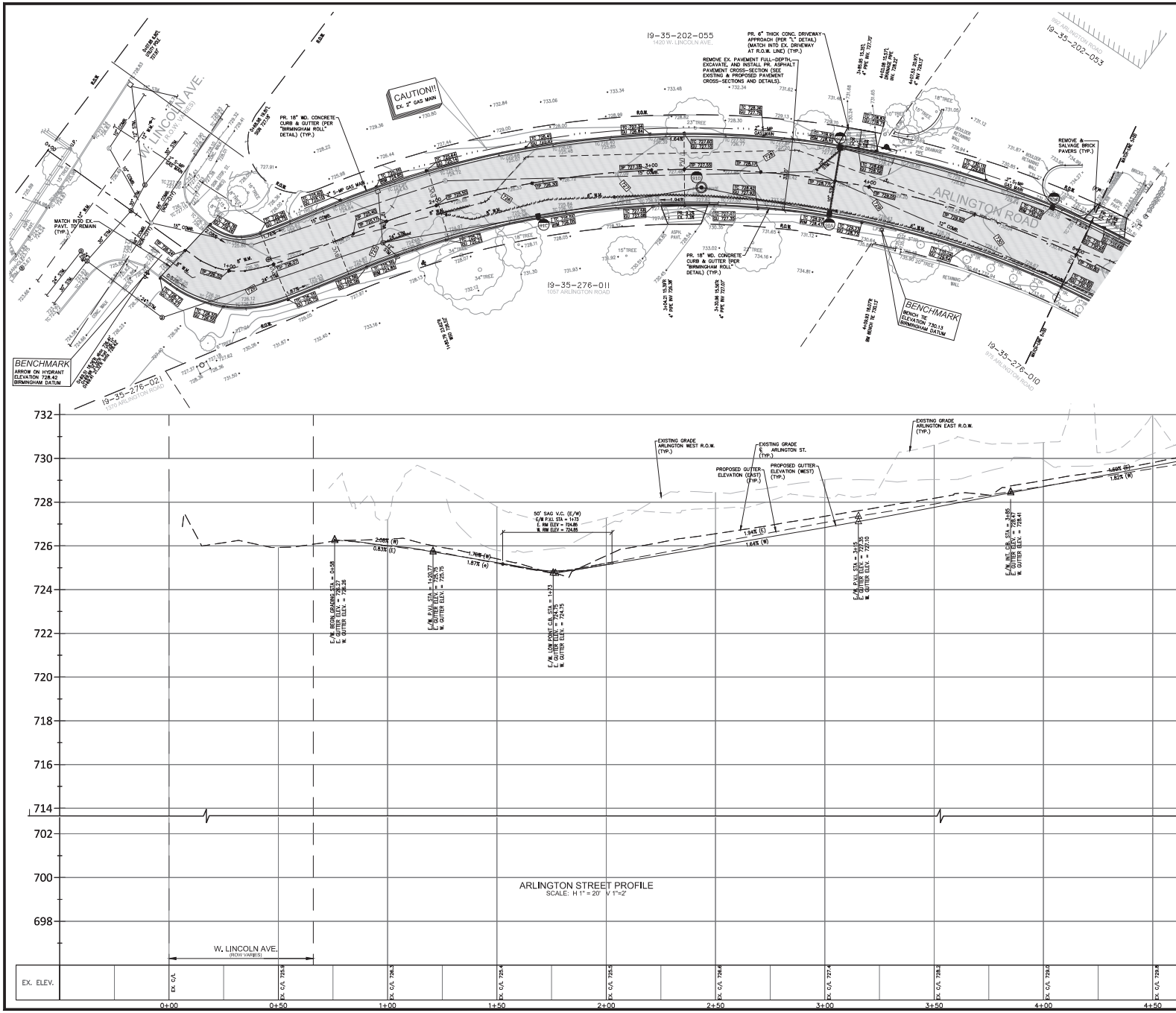
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C24



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SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Arlington Road)

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05-02-24	BIDS

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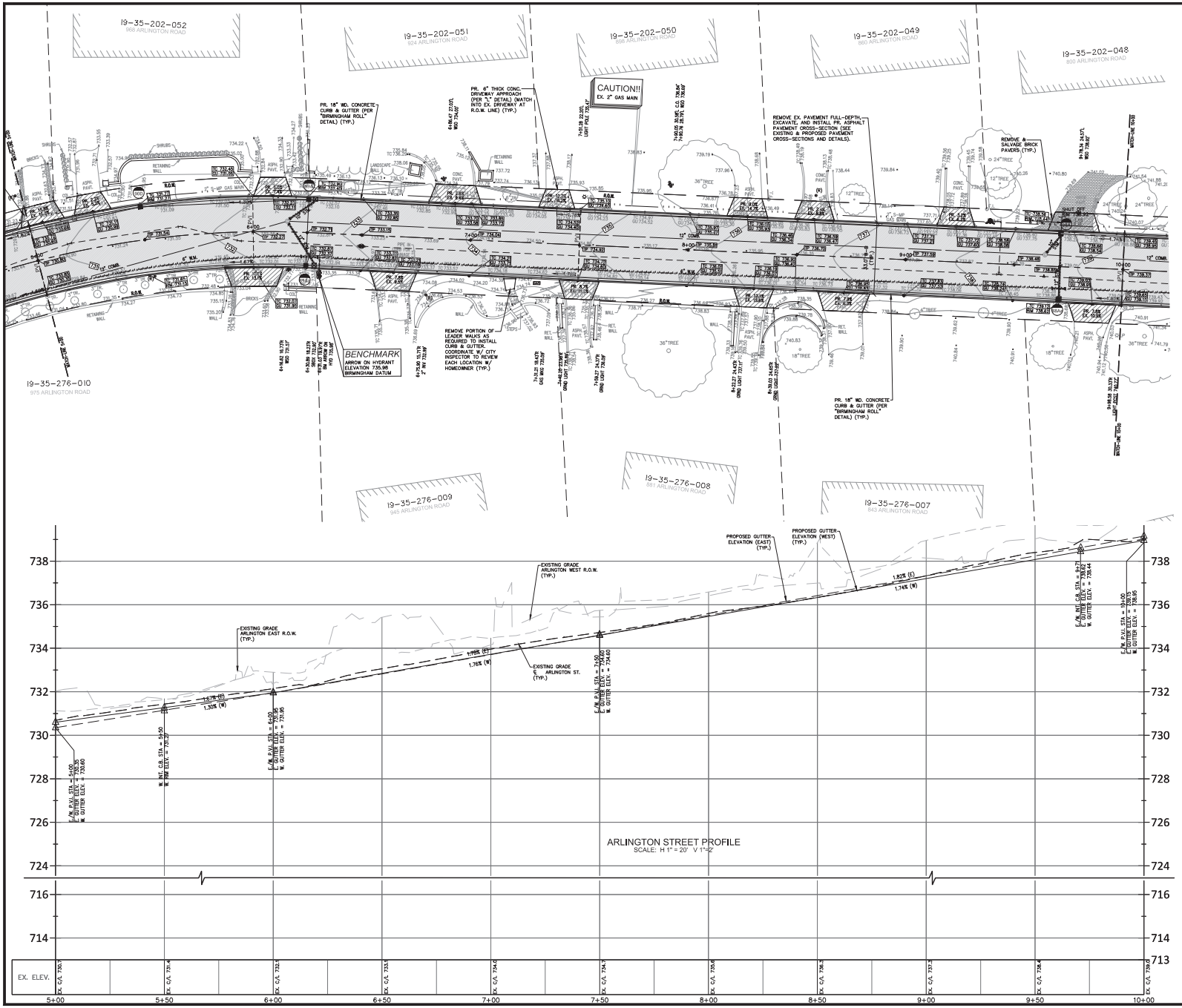
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C25



LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FULL-DEPTH ASPH. (4" HMA ON 6" 21AA)
- PR. 18" WD. CONC. CURB & GUTTER

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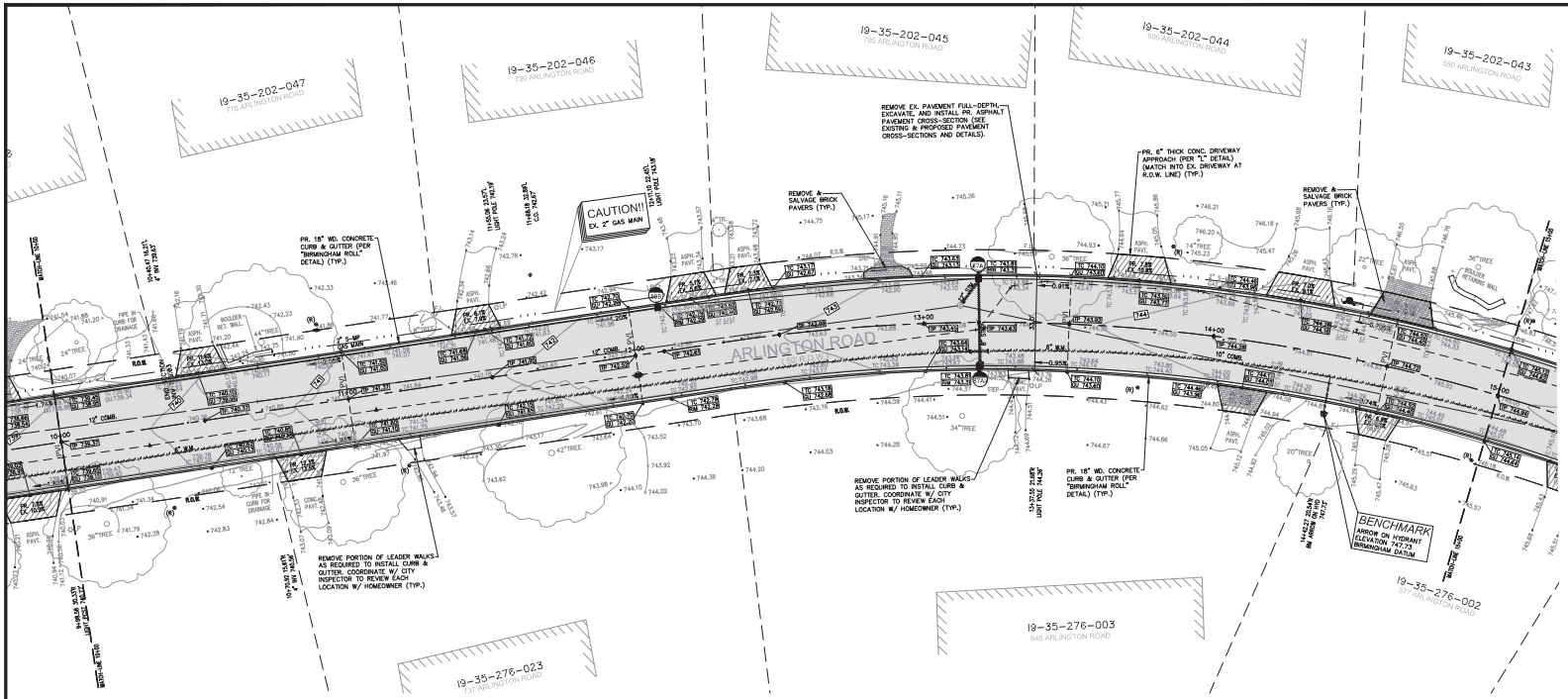
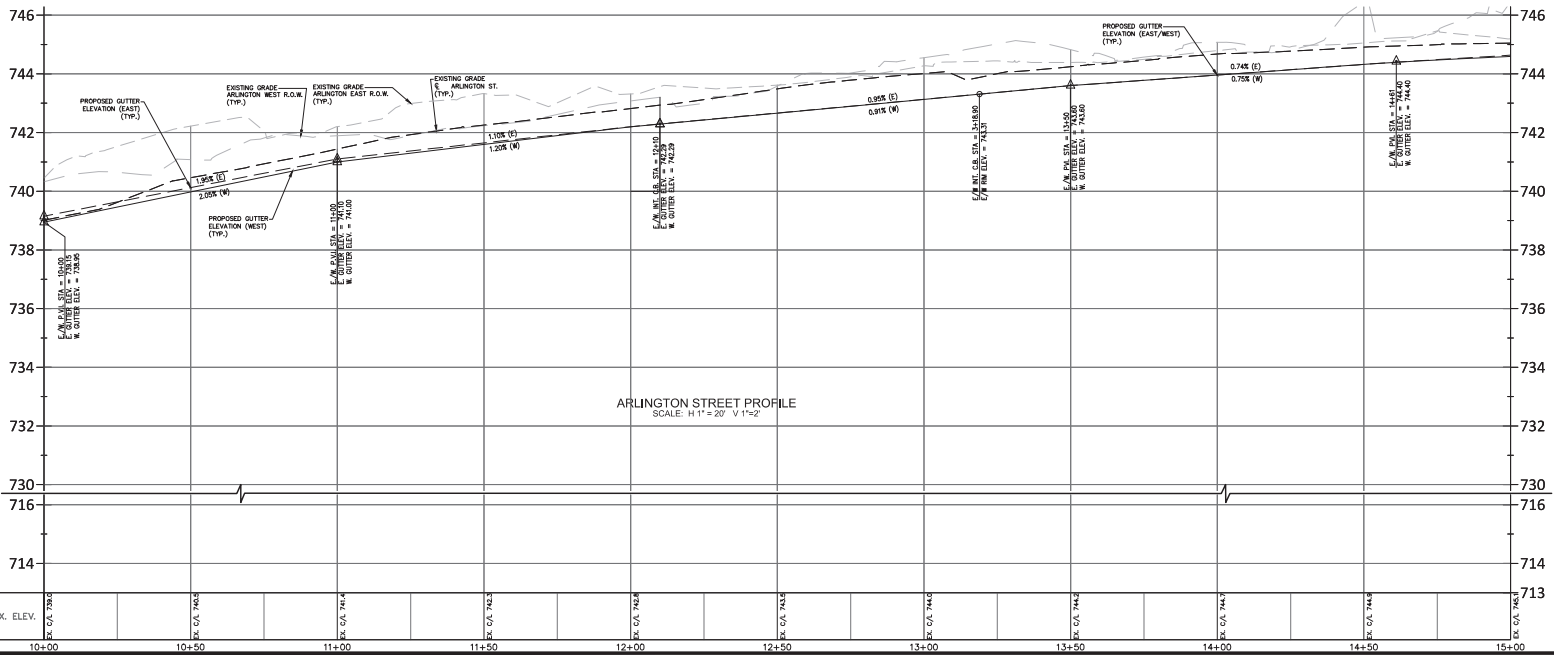
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C26





LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
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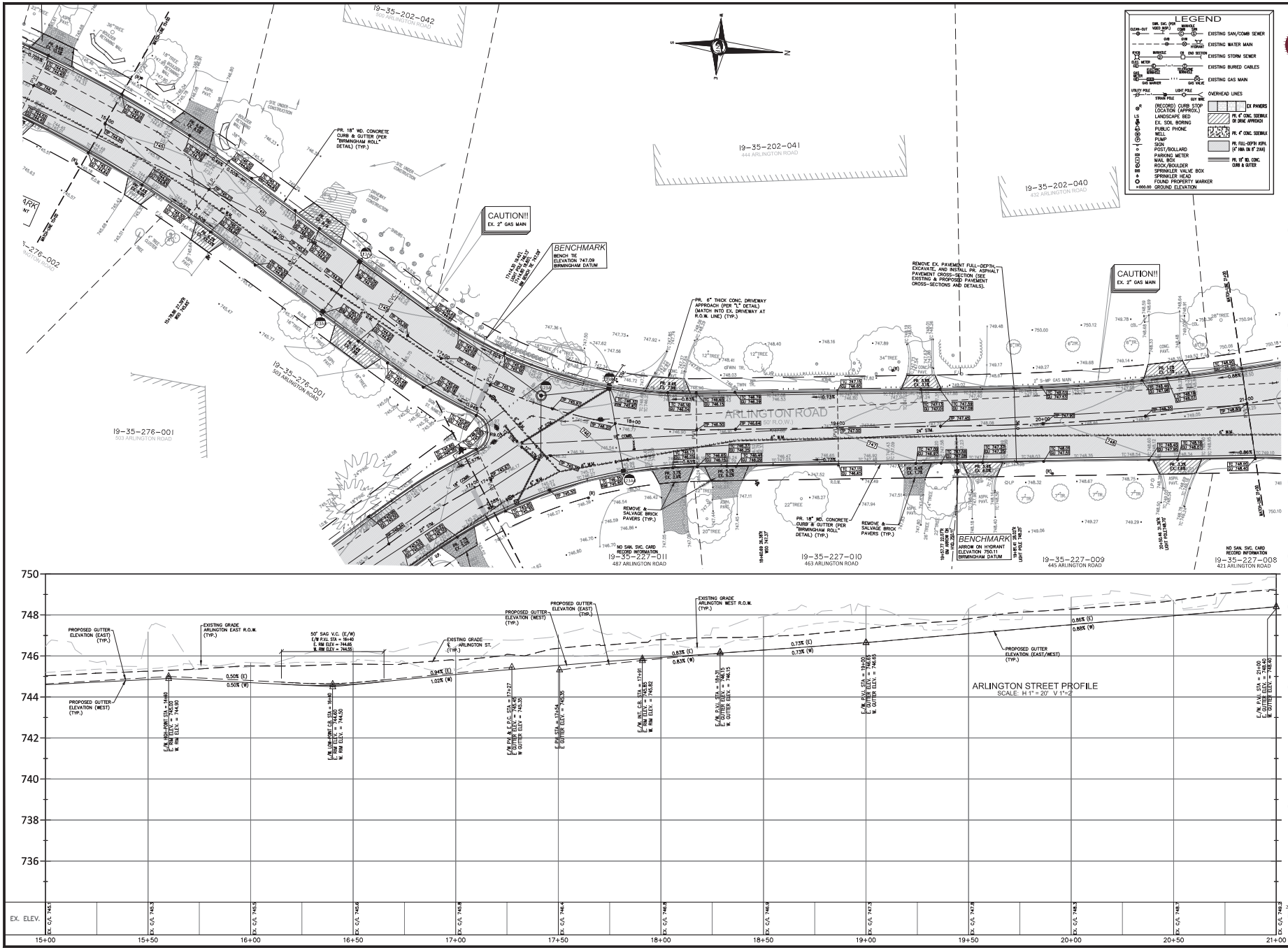
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C27



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SHEET
Paving & Grading Plan Sta 15+00 to 21+00 (Arlington Road)

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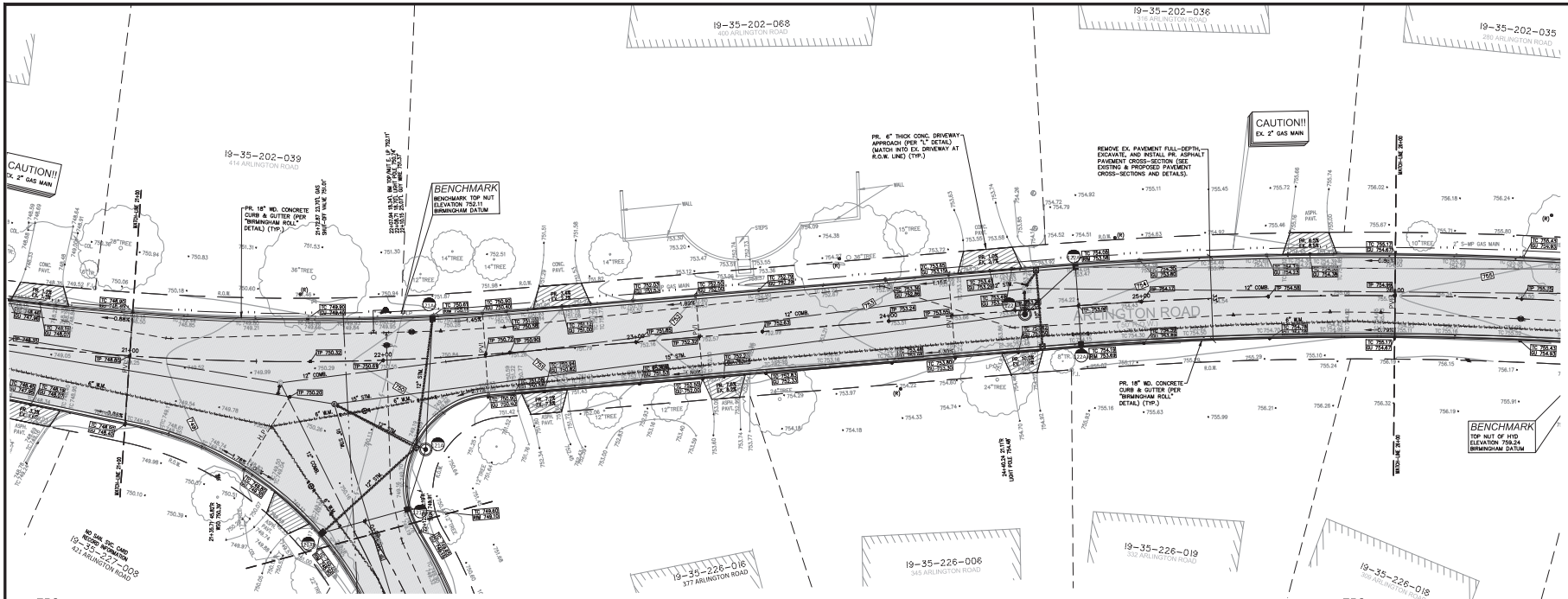
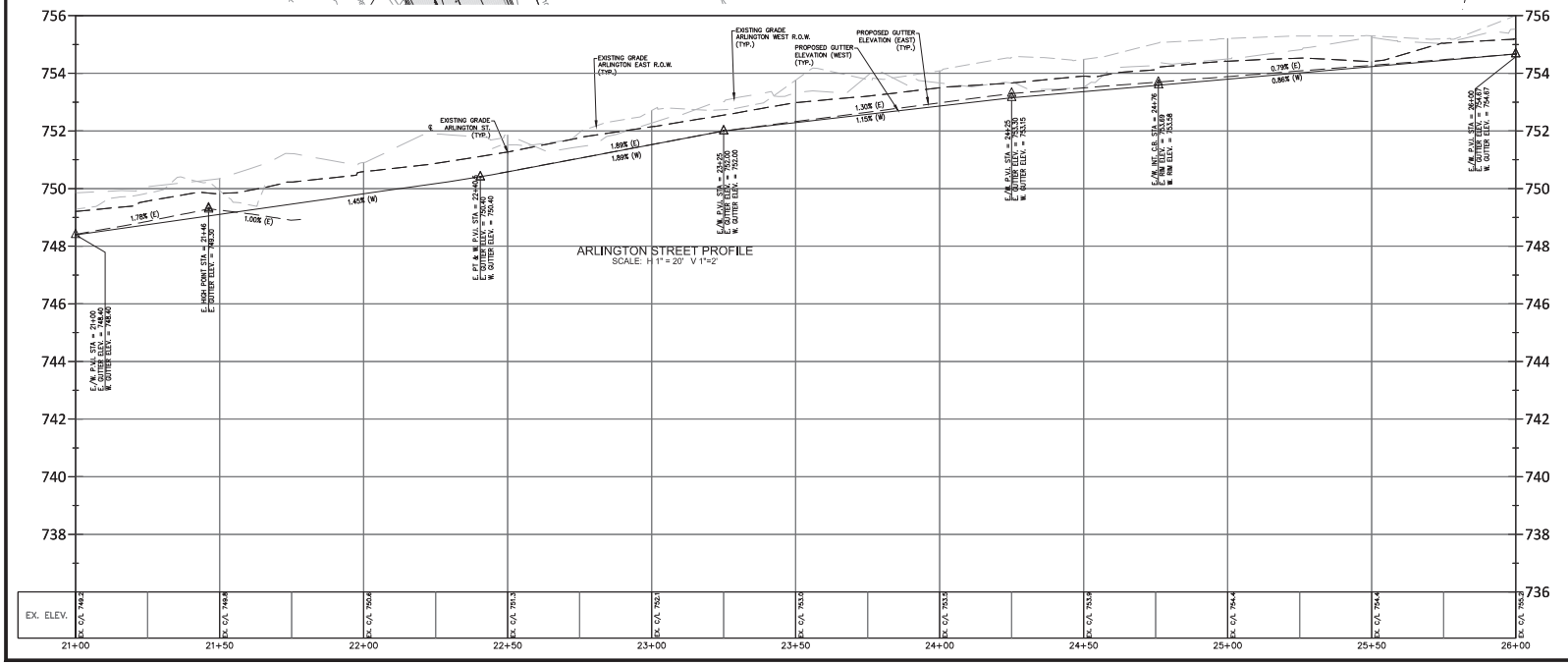
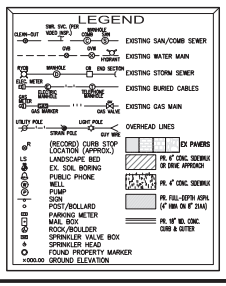
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C28







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Engineering Department
151 Martin Street
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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 21+00 to 26+00 (Arlington Road)

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Know what's below
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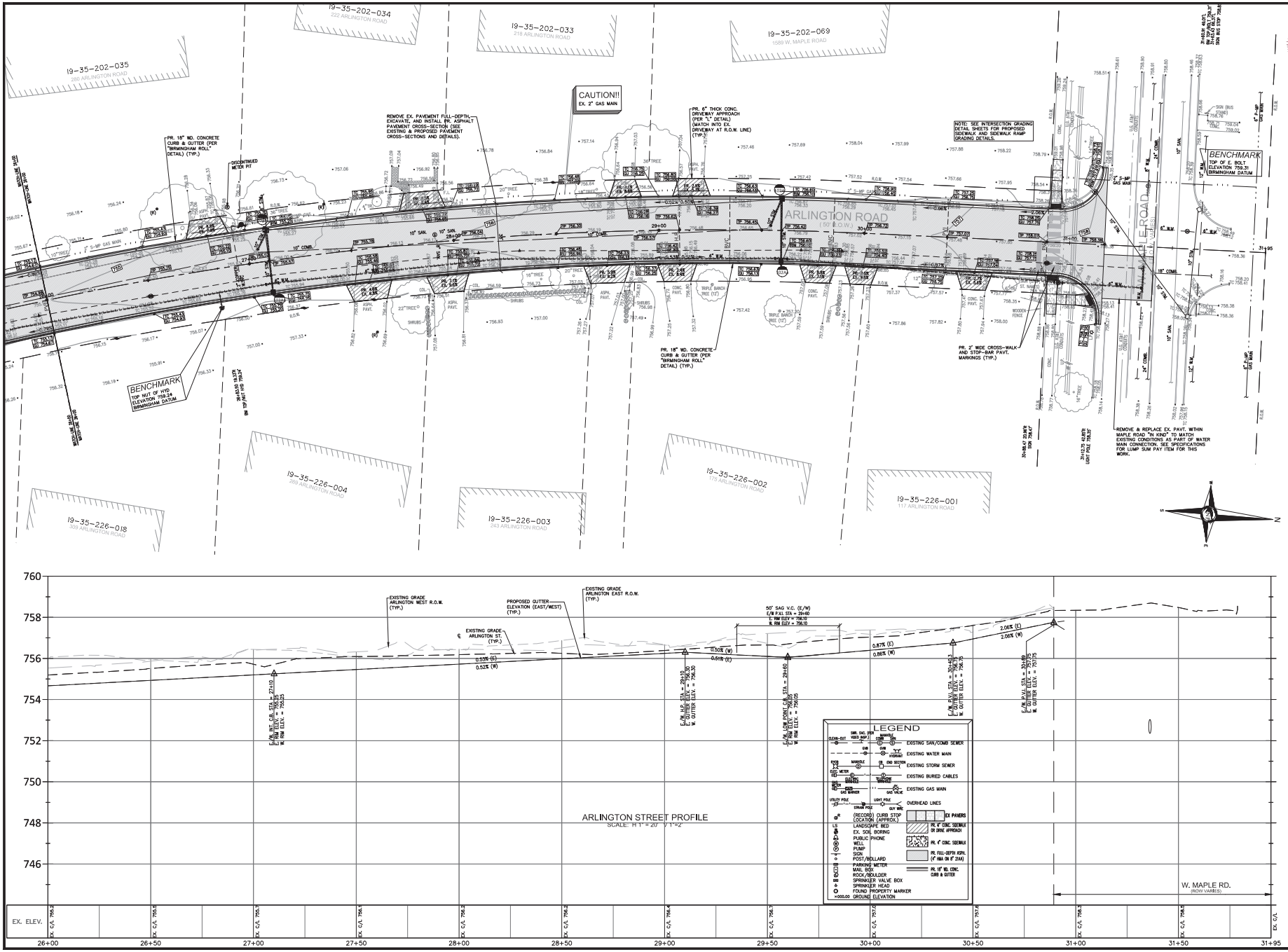
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C29



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SHEET
Paving & Grading Plan Sta 26+00 to P.O.E. (Arlington Road)

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DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
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DRAWN BY: K. Saleski
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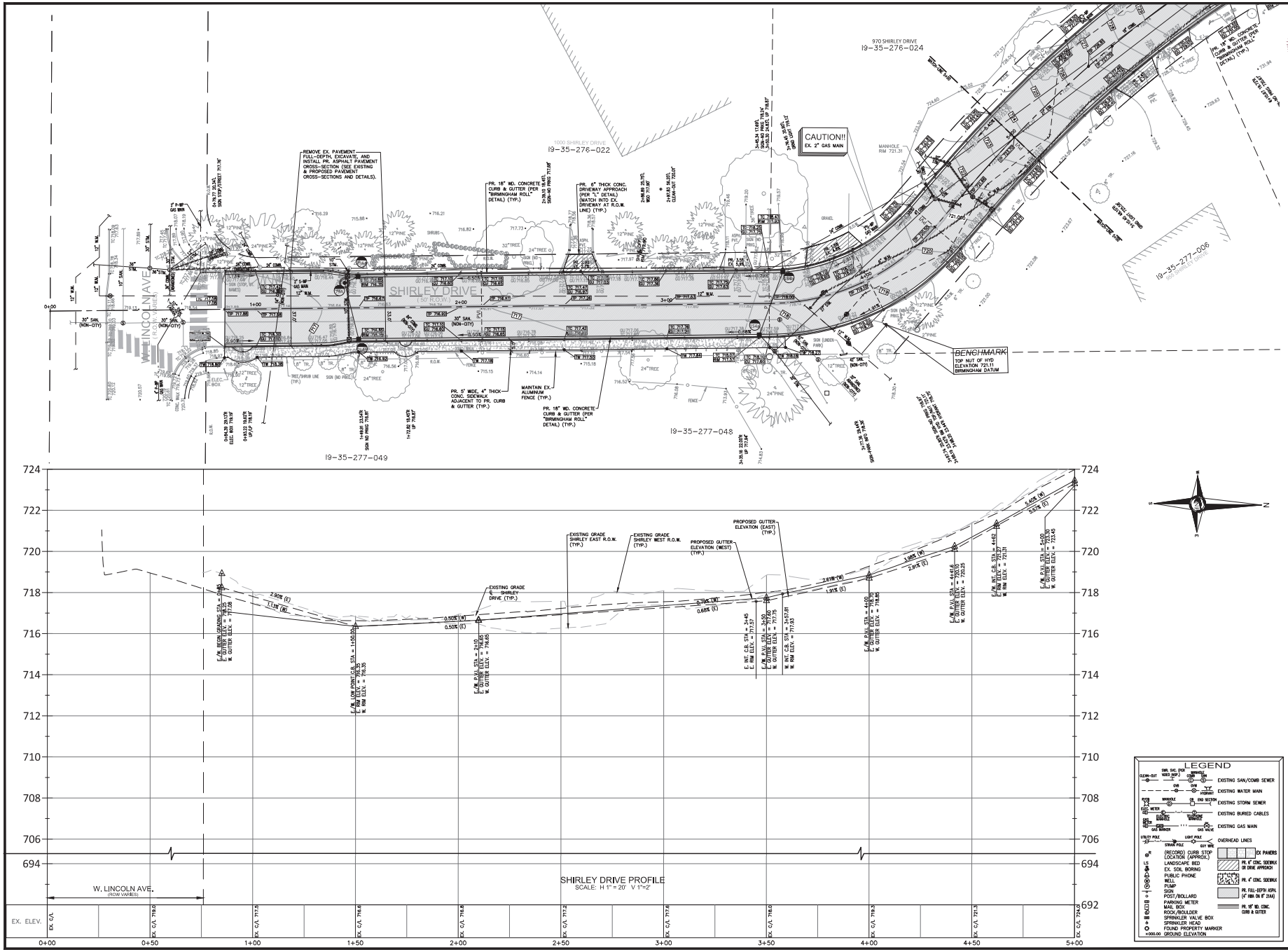
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C30



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SHEET
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02-09-24	ISSUED SURVEY
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05-02-24	BIDS

DRAWN BY: K. Saleski
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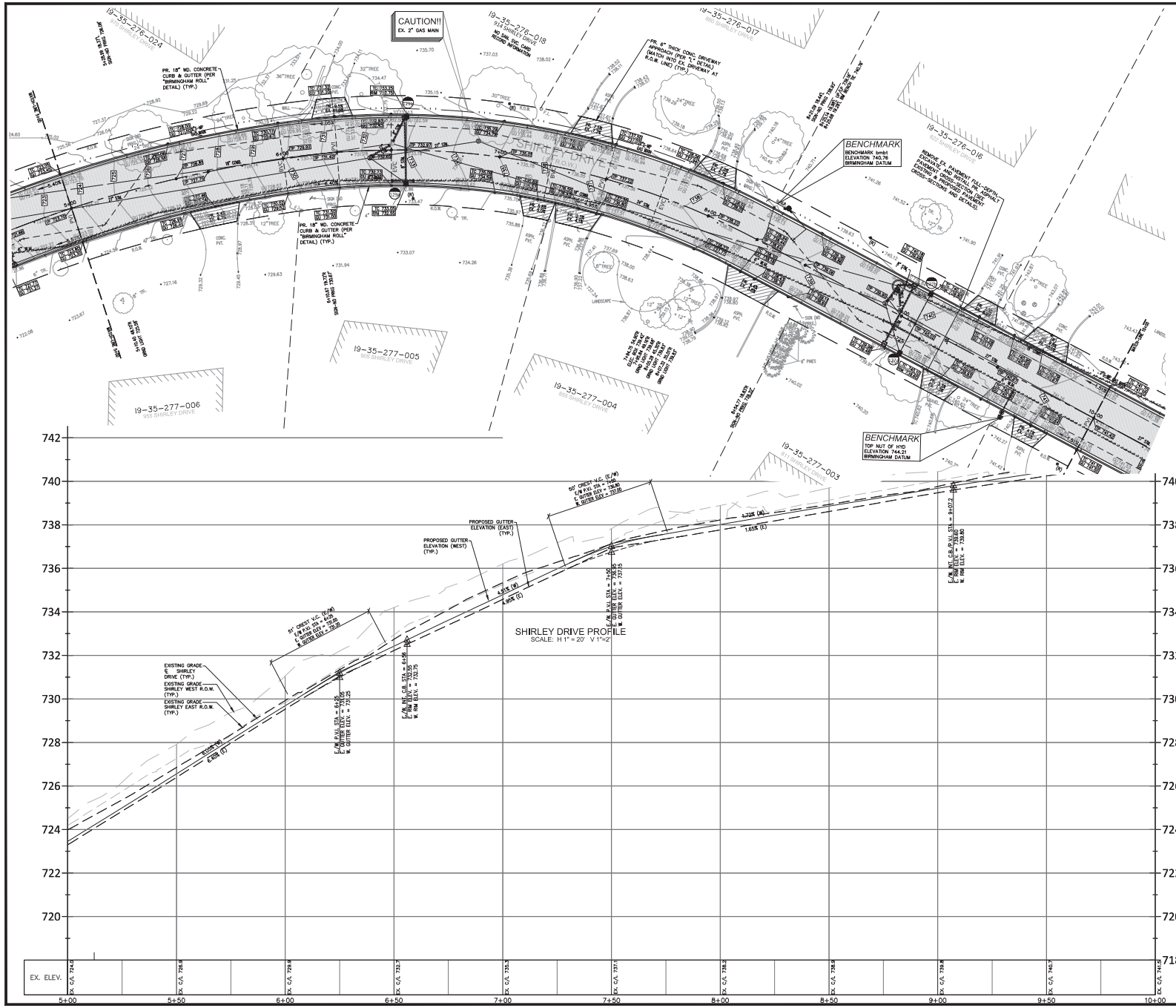
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C31

8B



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DRAWN BY: K. Saleski
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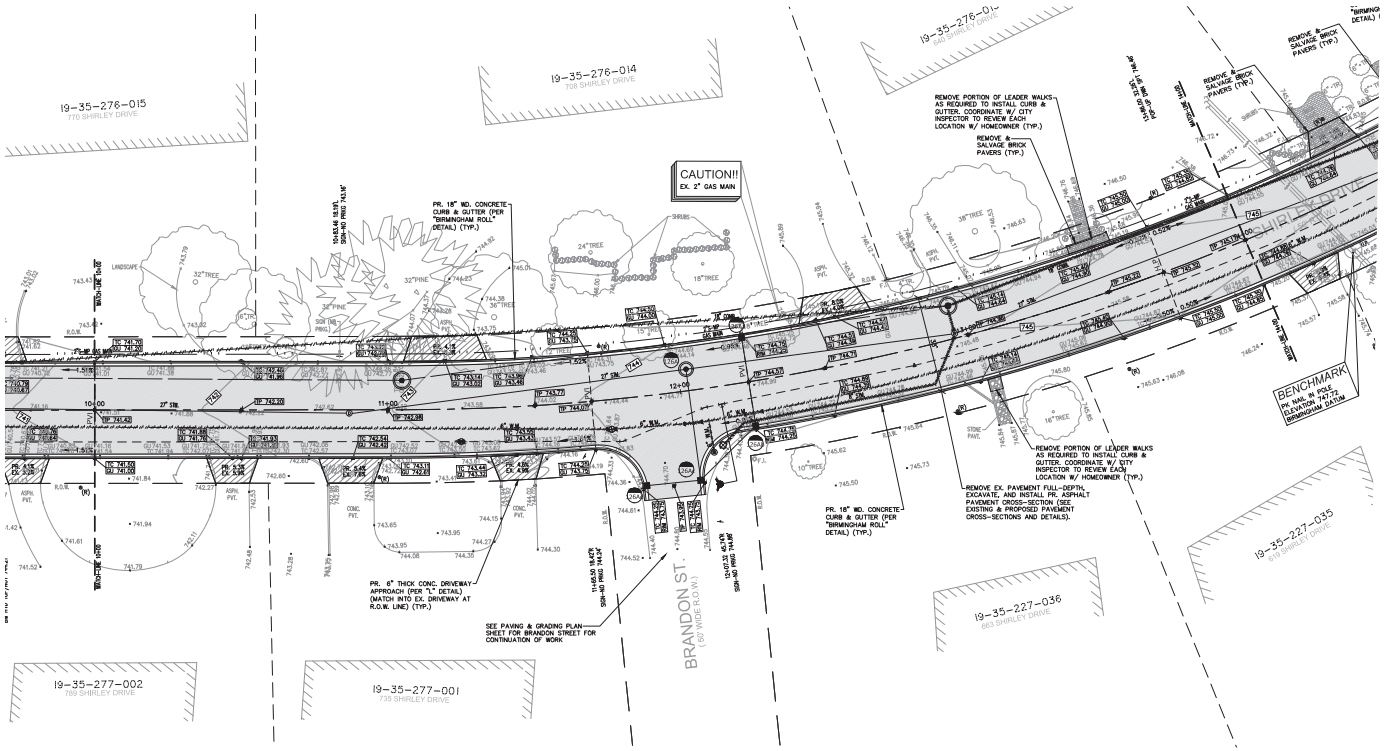
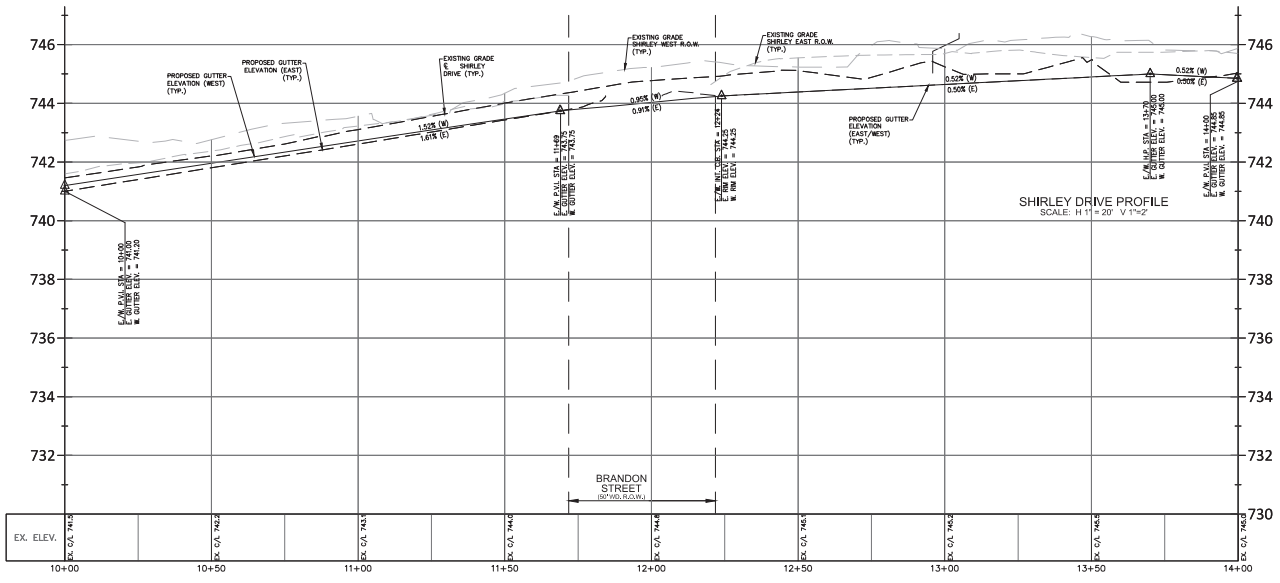
NFE JOB NO. N758
SHEET NO. C32





LEGEND

- EXISTING SAN/COMB SEWER
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- PR. 4" CONC. SIDEWALK
- PR. FULL-DEPTH ASPH. (4" HMA ON 6" 21AA)
- PR. 18" WD. CONC. CURB & GUTTER

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

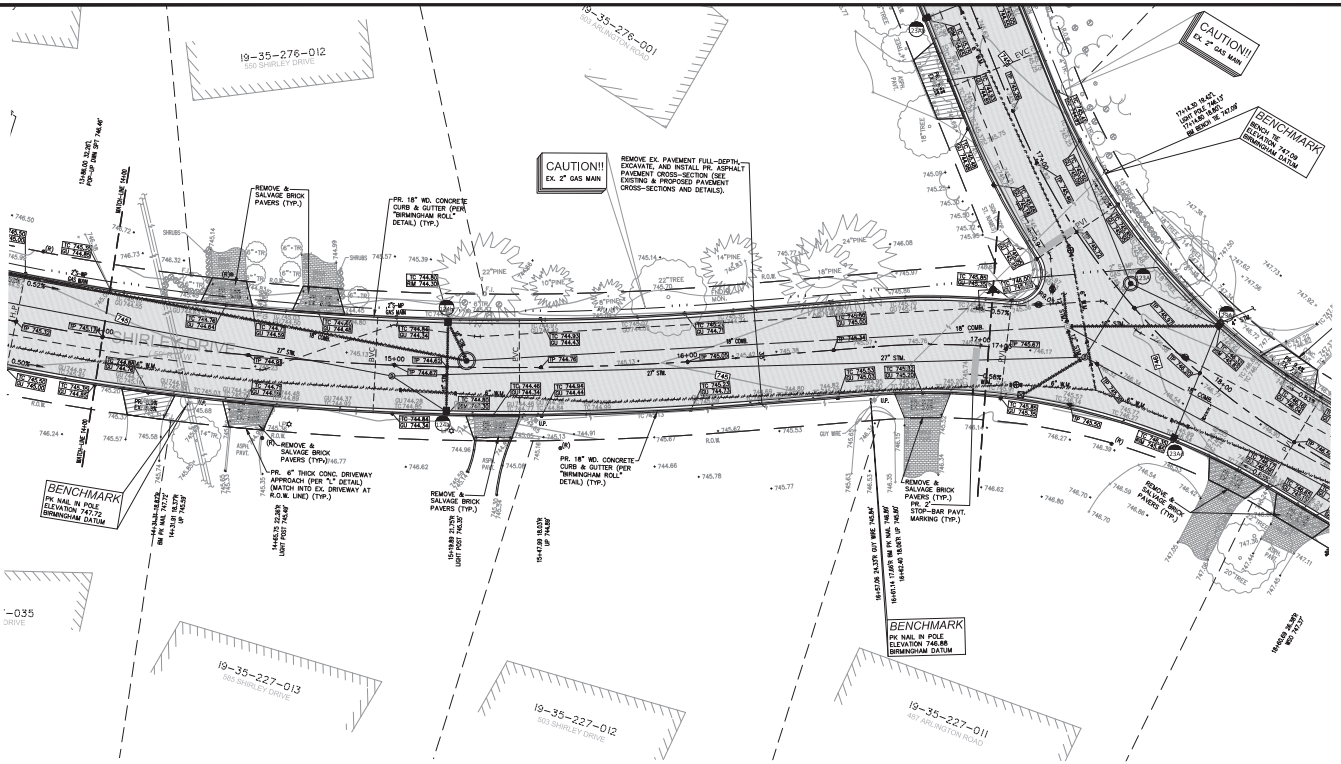
SHEET
Paving & Grading Plan Sta 10+00 to 14+00 (Shirley - South)

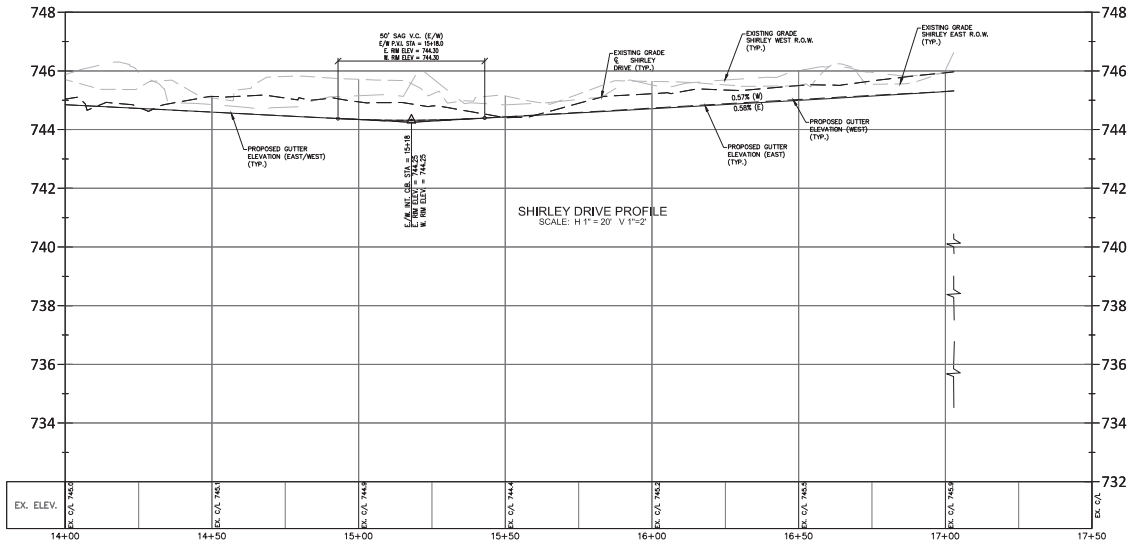
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C33





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City of Birmingham
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CLIENT
BIRMINGHAM
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151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 14+00 to P.O.E. (Shirley - South)

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

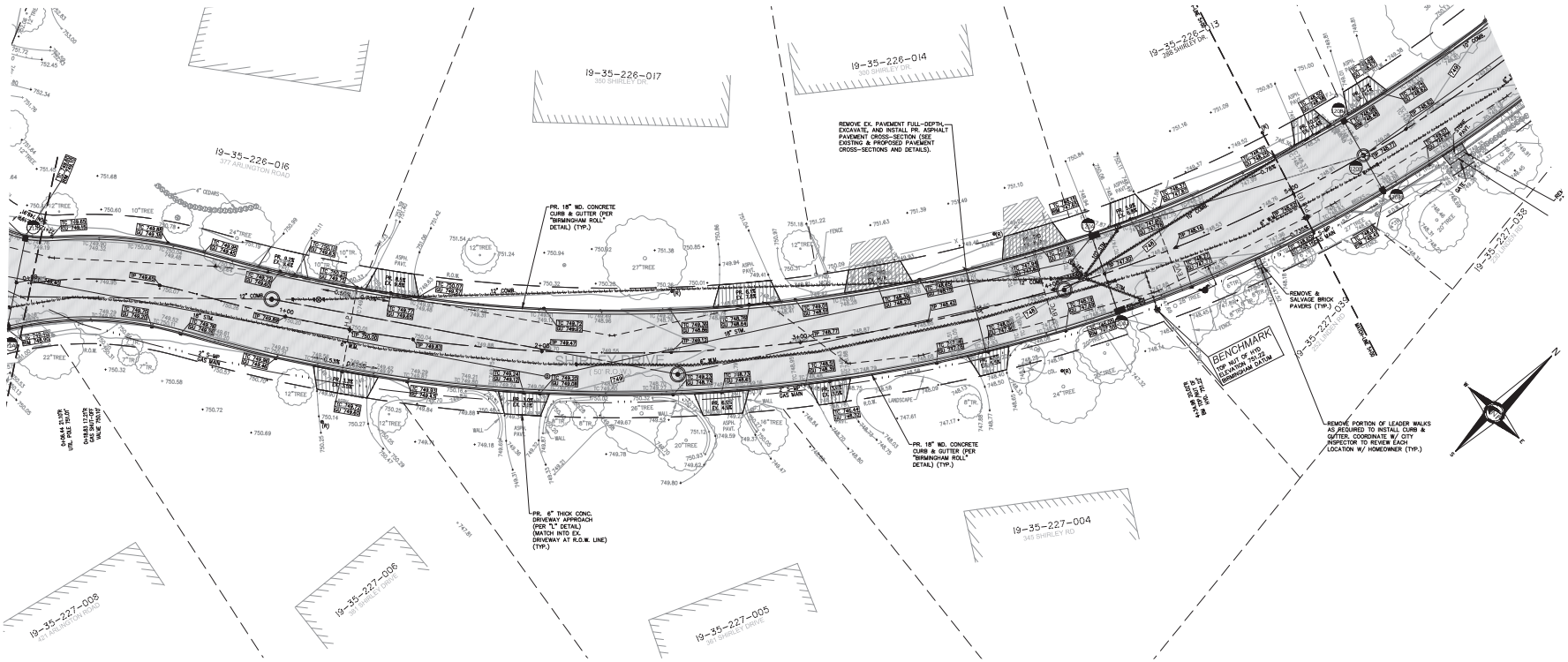
LEGEND

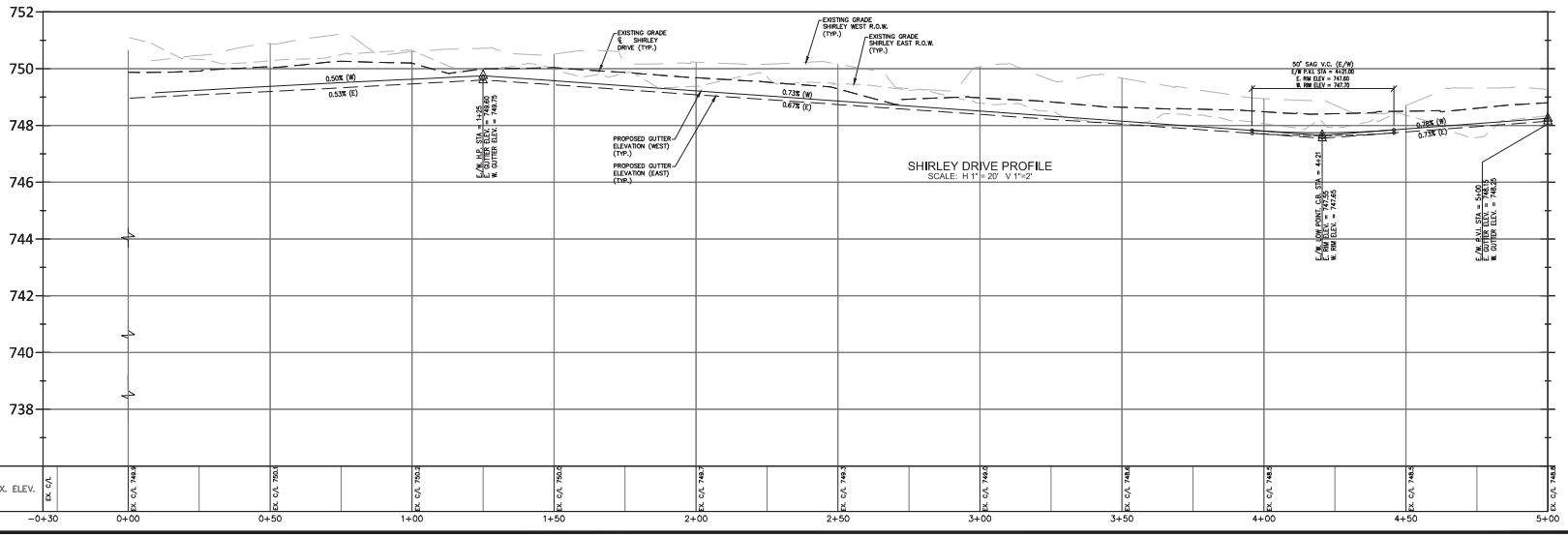
	EXISTING SAN/COMB SEWER
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EXISTING BURIED CABLES
	EXISTING GAS MAIN
	OVERHEAD LINES
	EX PAVERS
	PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
	PR. 4" CONC. SIDEWALK
	PR. FULL-DEPTH ASPH. (4" HMA ON 6" 21AA)
	PR. 18" WD. CONC. CURB & GUTTER

(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
x000.00 GROUND ELEVATION

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C34





LEGEND

EXISTING SAN./COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
RECORD CURB STOP LOCATION (APPROX.)
LANDSCAPE MCD
EX. SOIL BORING
PUBLIC PHONE
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
BRICK PAVERS
PR. 4" CONC. SIDEWALK
PR. 6" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (4" min. OF 13AA)
PR. 18" WD. CONC. CURB & GUTTER

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Shirley - North)

811
Know what's below
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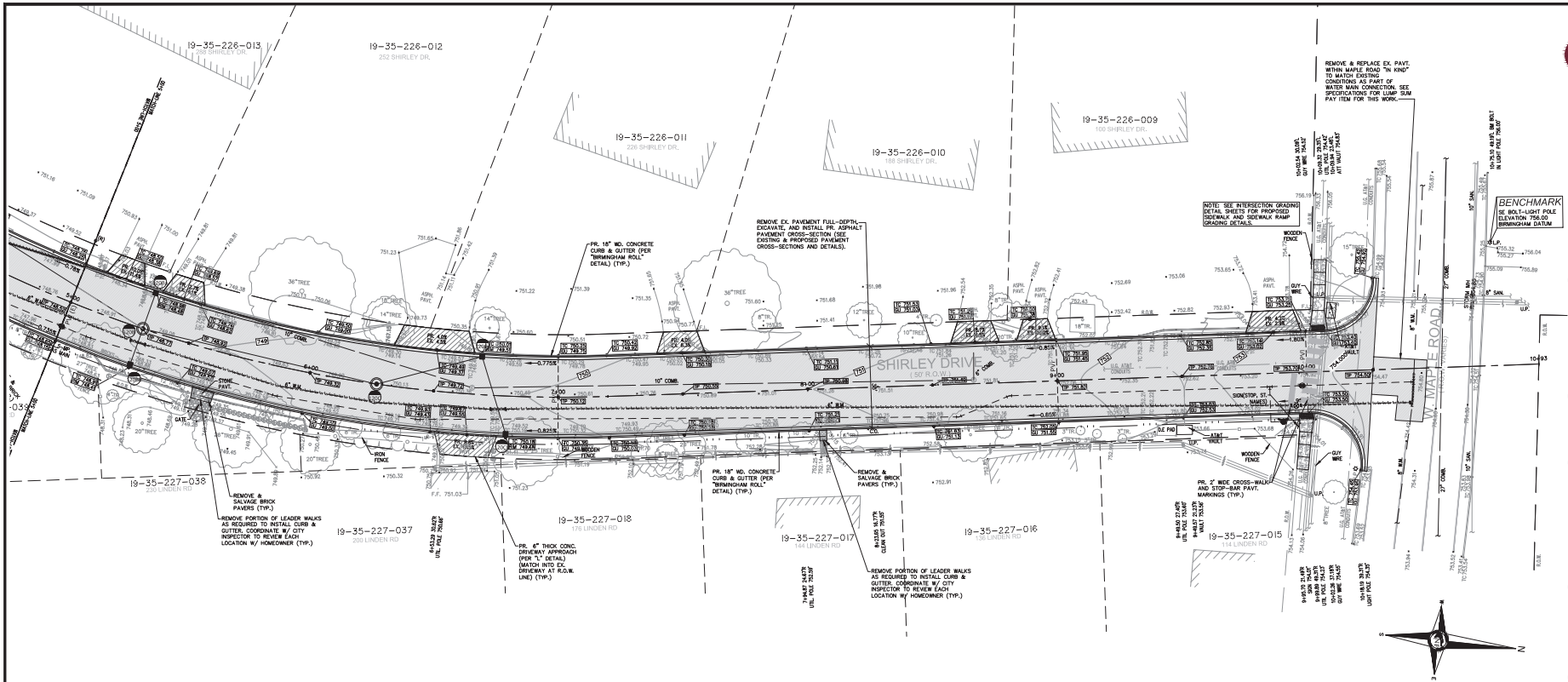
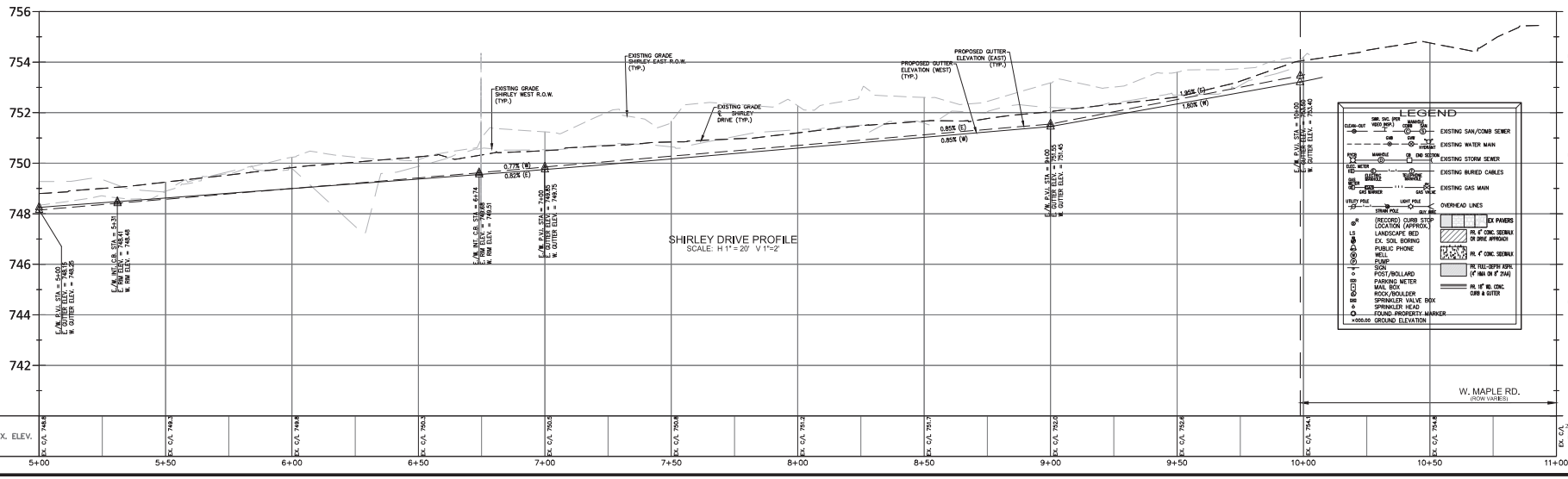
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C35





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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

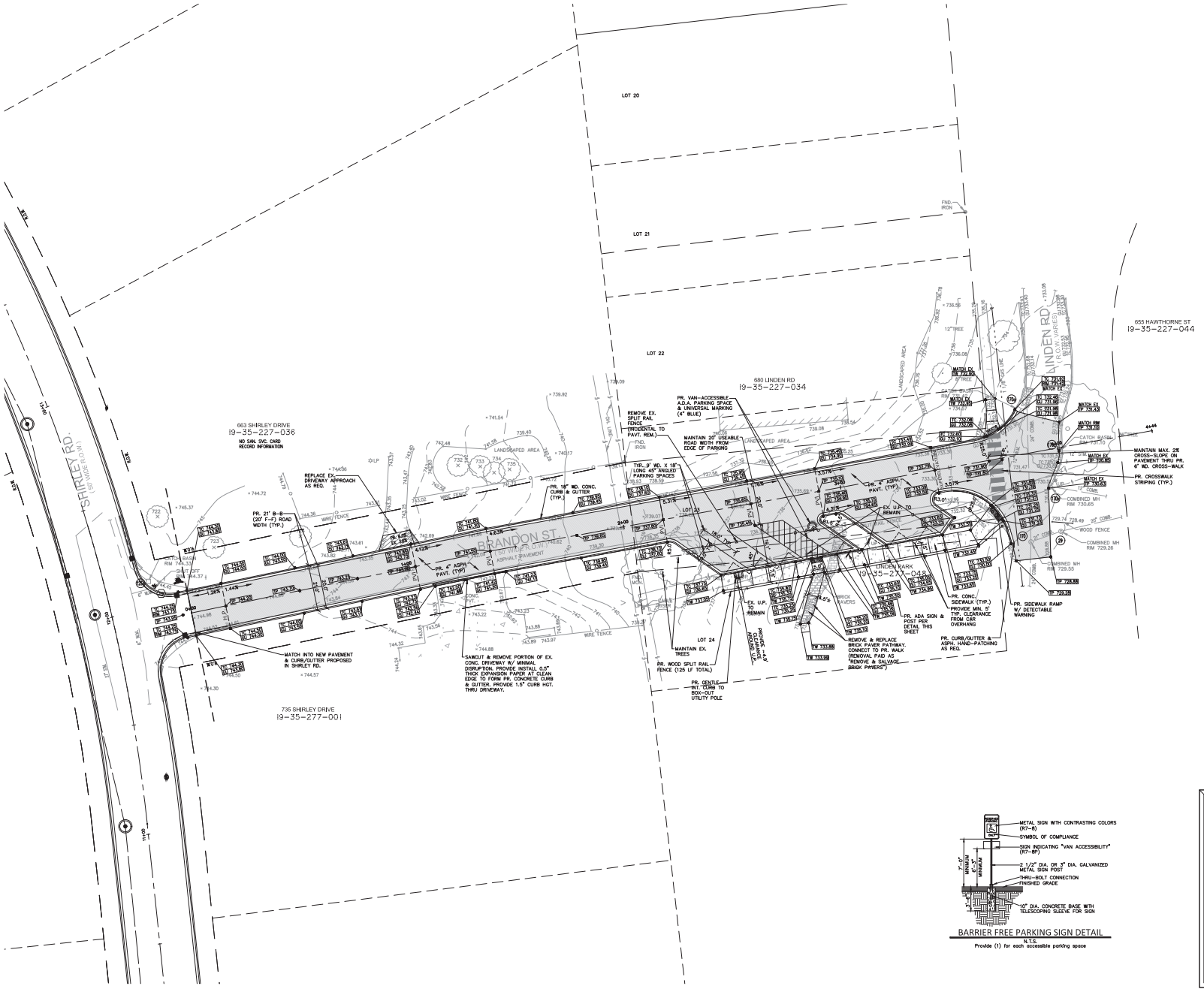
SHEET
Paving & Grading Plan Sta 5+00 to P.O.E. (Shirley - North)

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C36



BARRIER FREE PARKING SIGN DETAIL

N.T.S.

Provide (1) for each accessible parking space

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
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BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

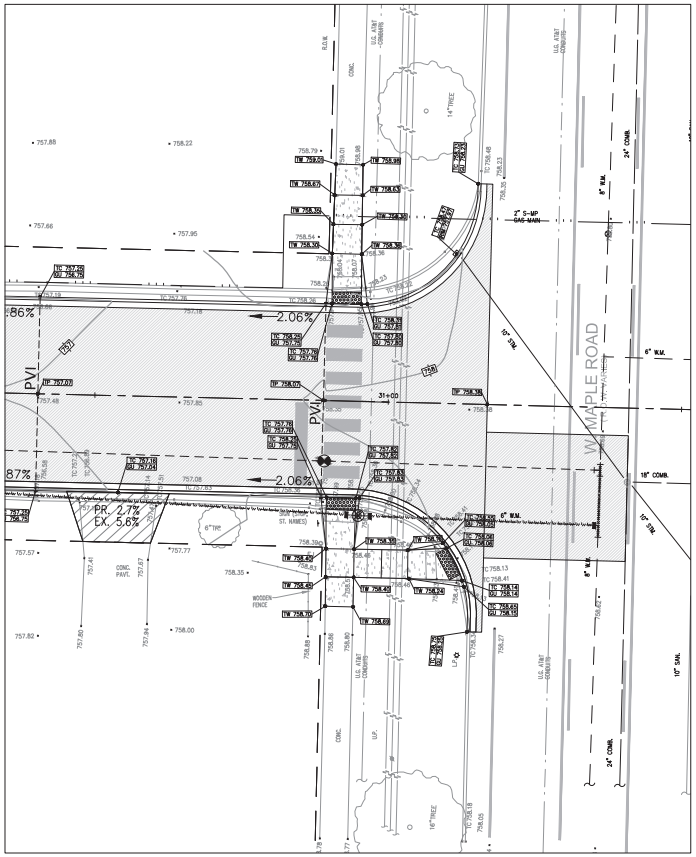
SHEET
Paving & Grading Plan
Sta P.O.B. To P.O.E. (Brandon St)

811
Know what's below
Call before you dig.

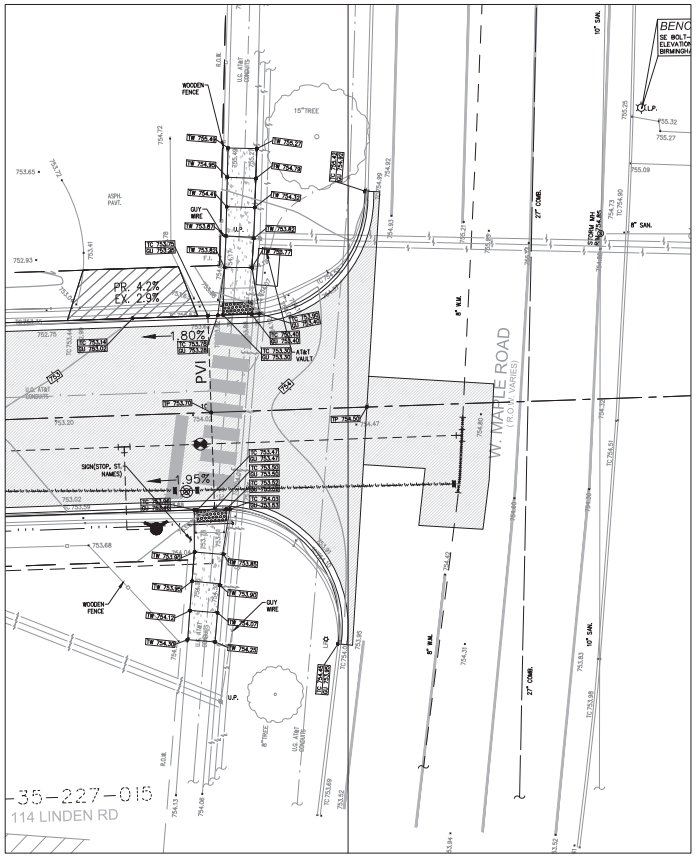
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C37



CROSSING AT ARLINGTON ROAD
AND W. MAPLE ROAD.



CROSSING AT SHIRLEY DRIVE AND
W. MAPLE ROAD.

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

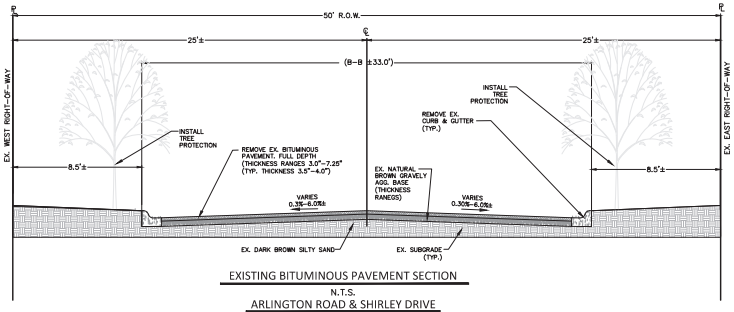
SHEET
Intersection Grading Details

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 10'

NFE JOB NO. N758
SHEET NO. C38



EXISTING BITUMINOUS PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD & SHIRLEY DRIVE

APPLIES TO:

ARLINGTON ROAD:

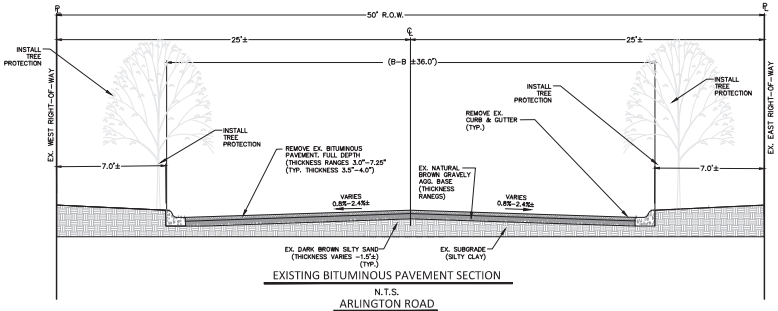
- STA. P.O.B. TO 16+78 & 22+52 TO 30+94
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN 16+78 TO 18+31, 19+75 TO 22+52, AND 30+00 TO P.O.E.

SHIRLEY DRIVE (SOUTH):

- STA. 1+49 TO P.O.E.
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA. P.O.B. TO 1+49.

SHIRLEY DRIVE (NORTH):

- STA. P.O.B. TO 9+33
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA 9+33 TO P.O.E.



EXISTING BITUMINOUS PAVEMENT SECTION

N.T.S.

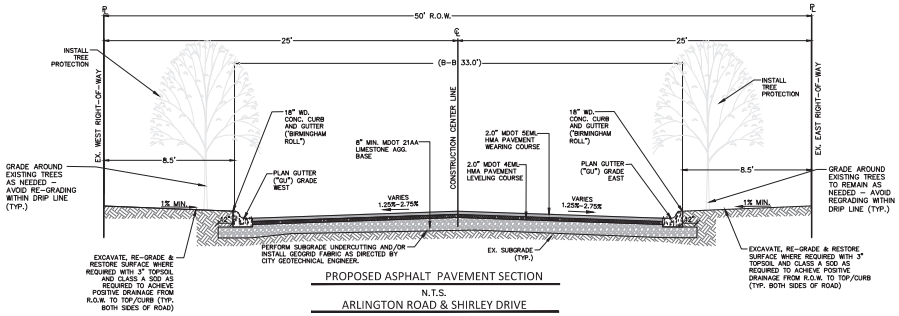
ARLINGTON ROAD

APPLIES TO

ARLINGTON ROAD:

- STA. 18+31 TO 19+75

NOTE: REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY G2 CONSULTING GROUP (DATED 3/9/24) FOR DETAILED EXISTING PAVEMENT AND SOILS INFORMATION.



PROPOSED ASPHALT PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD & SHIRLEY DRIVE

APPLIES TO:

ARLINGTON ROAD

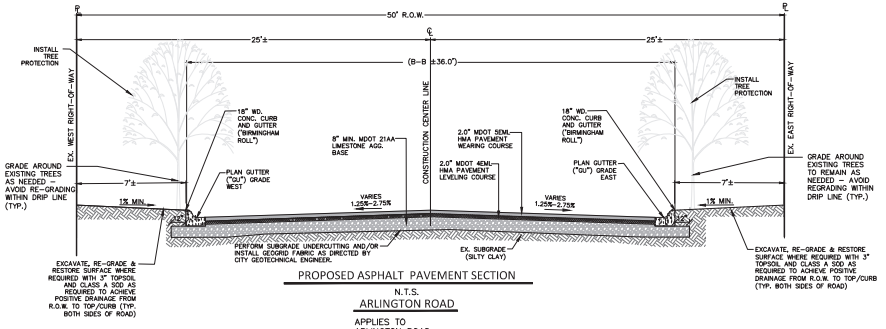
- STA. P.O.B. TO 16+78 & 22+52 TO 30+95
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN: 16+78 TO 22+52 AND 30+95 TO P.O.E.

SHIRLEY DRIVE (SOUTH):

- STA. 1+49 TO P.O.E.
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA. P.O.B. TO 1+49.

SHIRLEY DRIVE (NORTH):

- STA. P.O.B. TO 10+00
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA 10+00 TO P.O.E.



PROPOSED ASPHALT PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD

APPLIES TO

ARLINGTON ROAD:

- STA. 18+31 TO 19+75

NF ENGINEERS

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SEAL

PROJECT

City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT

BIRMINGHAM
A WALKABLE CITY

Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION

Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET

Exisiting and Proposed Road Cross-Sections

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski

DESIGNED BY: P. Tulikangas

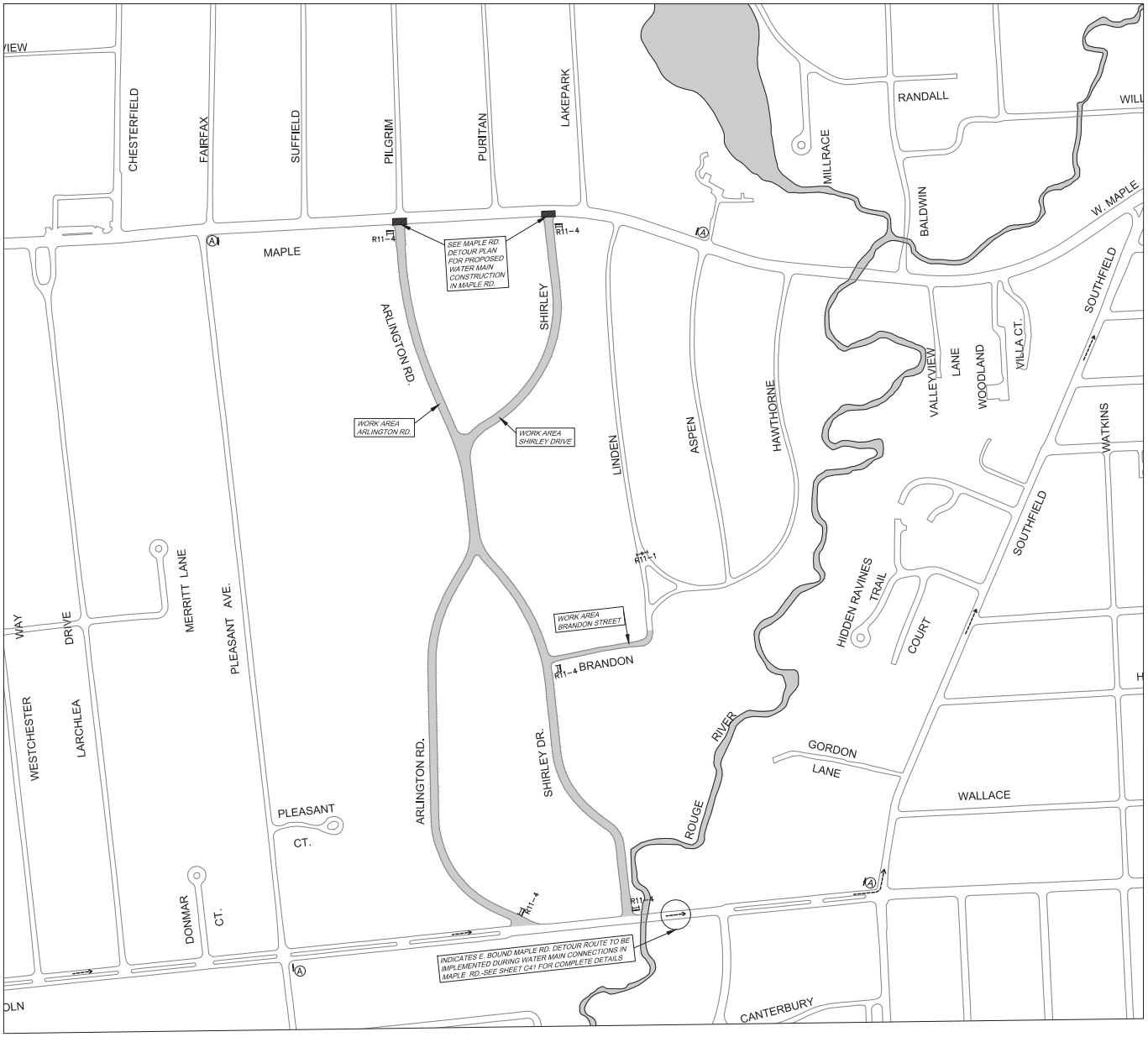
APPROVED BY: B. Buchholz

DATE: February 8, 2024

SCALE: N.T.S.

NFE JOB NO. N758

SHEET NO. C39



ADVANCED WARNING SIGNAGE PLAN: ARLINGTON ROAD & SHIRLEY DRIVE

ARLINGTON RD. AND SHIRLEY DR. CLOSED TO THRU TRAFFIC SEEK ALT. ROUTE

36"x72" ADVANCE WARNING SIGN "A"
BLACK LEGEND ON ORANGE BACKGROUND

SYMBOL KEY

- TYPE III BARRICADES
- ADVANCED WARNING SIGN
- DETOUR

SPECIAL ADVANCED WARNING SIGN QUANTITIES

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
SIGN "A"	ARLINGTON RD. AND SHIRLEY DR. CLOSED TO THRU TRAFFIC SEEK ALT ROUTE	36"x72"	4

OTHER ADVANCED WARNING SIGN QUANTITIES AS SHOWN

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
R11-2	ROAD CLOSED	60"x30"	T.B.D.
R11-4	ROAD CLOSED FOR THRU TRAFFIC	60"x30"	T.B.D.

NOTES

1. PLACE TRAFFIC CONTROL DEVICES AS SPECIFIED, OR AS OTHERWISE DIRECTED BY THE CITY OF BIRMINGHAM, INCLUDING ADVANCE WARNING SIGNS AND BARRICADES NOT SPECIFIED ON THIS DIAGRAM. CONTRACTOR/INSPECTOR MUST ACCOMPANY SIGN SUBCONTRACTOR DURING PLACEMENT OF SIGNS THROUGHOUT VARIOUS TRAFFIC CONTROL CHANGES.
2. ALL SIGNS AND BARRICADING SHALL BE IN ACCORDANCE WITH CURRENT M.M.U.T.C.D. AND M.D.O.T. SPECIFICATIONS AND TRAFFIC TYPICALS, INCLUDING PLACEMENT OF ADDITIONAL REQUIRED SIGNS/BARRICADES NOT DEPICTED ON THESE PLANS TO CONTROL TRAFFIC, LANE SHIFTS, ETC.
3. ADVANCE WARNING SIGNS AND BARRICADES SHALL REMAIN IN PLACE UNTIL THE NEW ROAD (OR A PORTION THEREOF) IS READY TO BE OPENED FOR TRAFFIC AS DETERMINED BY THE CITY.
4. MAINTAIN SIDEWALKS AND INSTALL & MAINTAIN FENCING & SIGNAGE AS NEEDED TO ENSURE PEDESTRIAN SAFETY. UTILIZE MAINTENANCE AGGREGATE AS REQUIRED.
5. ERECT, REMOVE, AND/OR MAINTAIN ALL ADVANCE WARNING/DETOUR SIGNAGE AS DIRECTED BY THE CITY.
6. TYPE III BARRICADES (LIGHTED) SHALL BE PLACED FOR ALL LANE CLOSURES, AND SHALL INCLUDE A R11-2 OR R11-4 SIGN ON EACH TYPE III BARRICADE WHERE NOTED.
7. ALL SIDEWALK CLOSURES WITHIN CITY LIMITS SHALL HAVE TYPE III BARRICADES AND INCLUDE A SIDEWALK CLOSED SIGN. IF SIDEWALK CLOSURES ARE REQUIRED WITHIN M.D.O.T. RIGHT-OF WAY ON WOODWARD AVENUE (M-1), TYPE II BARRICADES SHALL BE USED.
8. LOCAL RESIDENT TRAFFIC (TWO-WAY) SHALL TYPICALLY BE MAINTAINED DURING CONSTRUCTION.
9. CONTRACTOR SHALL PROVIDE ADDITIONAL ADVANCED WARNING SIGNAGE TO INDICATE WHEN FULL-WIDTH CLOSURES WILL BE REQUIRED IN ISOLATED WORK AREAS. PROVIDE ADDITIONAL TYPE III BARRICADES/R11-2/R11-4 SIGNS AT MAPLE, LINCOLN & MIDDLE PORTION OF ARLINGTON FOR BOTH DIRECTIONS OF TRAFFIC.
10. CONTRACTOR SHALL PROVIDE FLAG CONTROL AS REQUIRED THROUGHOUT DURATION OF PROJECT.

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PROJECT LOCATION
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SHEET
Advanced Warning Signage Diagram

811
Know what's below
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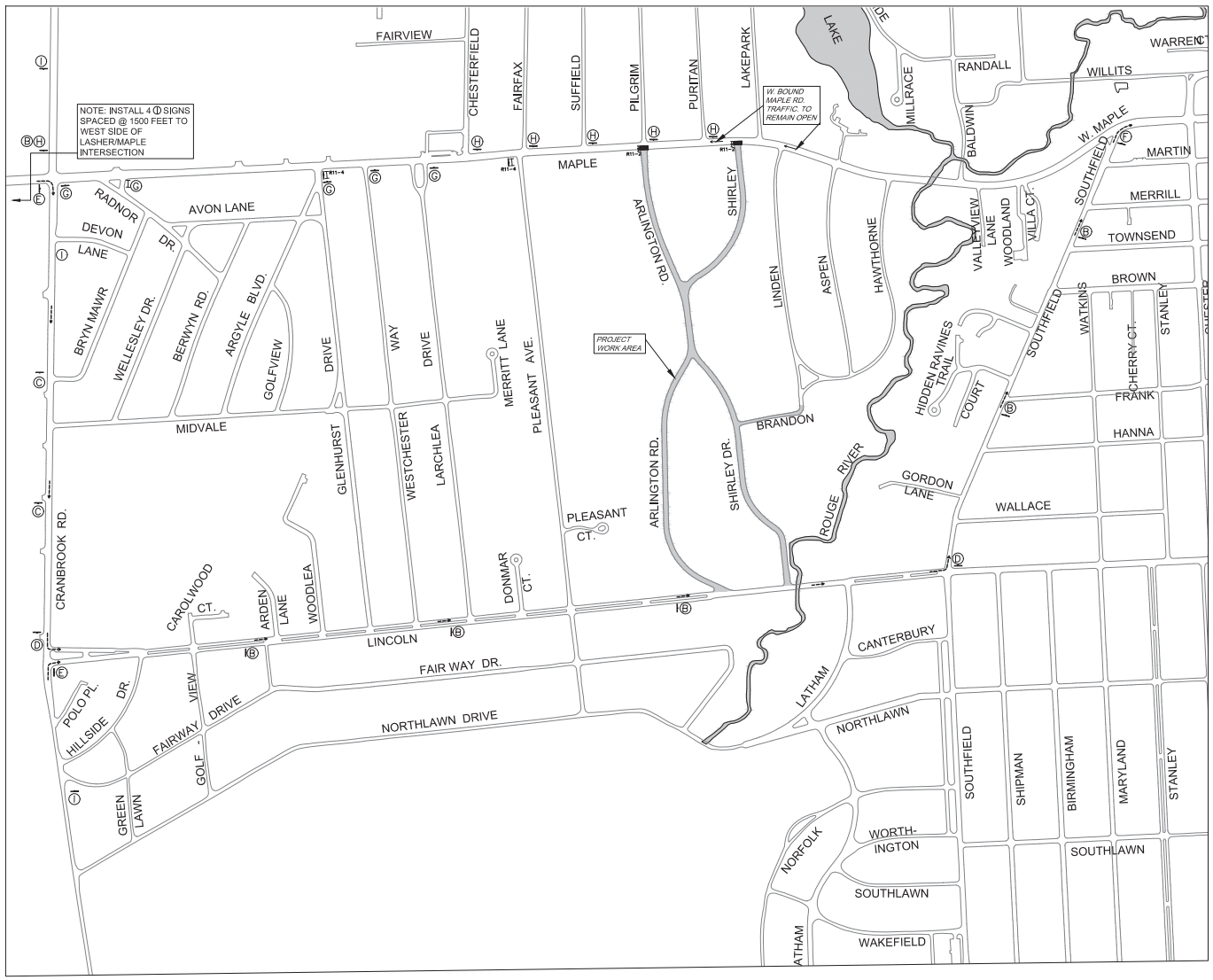
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

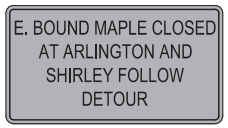
NFE JOB NO. N758
SHEET NO. C40



DETOUR PLAN: MAPLE ROAD (EAST-BOUND TRAFFIC)

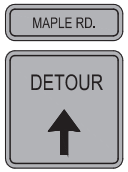
ADVANCED WARNING SIGN "G"
R3-1

ADVANCED WARNING SIGN "H"
R3-2



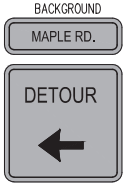
36"x72" ADVANCE WARNING SIGN "I"
BLACK LEGEND ON ORANGE BACKGROUND

10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND



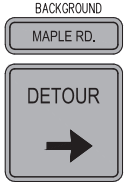
30" x 30"
ADVANCED WARNING SIGN "C"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)

10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND



30" x 30"
ADVANCED WARNING SIGN "D"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)

10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND



30" x 30"
ADVANCED WARNING SIGN "E"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)

24" x 18"
ADVANCED WARNING SIGN "F"
BLACK LEGEND ON ORANGE BACKGROUND

SYMBOL KEY

- TYPE III BARRICADES
- ADVANCED WARNING SIGN
- DETOUR

SPECIAL ADVANCED WARNING SIGN QUANTITIES

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
SIGN "B"	MAPLE RD.	10"x30"	6
SIGN "C"	DETOUR W/ UP ARROW (M.D.O.T. M4-9U)	10"x18"	2
SIGN "D"	DETOUR W/ LEFT ARROW (M.D.O.T. M4-9L)	30"x30"	2
SIGN "E"	DETOUR W/ RIGHT ARROW (M.D.O.T. M4-9R)	30"x30"	2
SIGN "F"	END DETOUR	30"x30"	1
SIGN "G"	NO RIGHT TURN (R3-1)	30"x24"	5
SIGN "H"	NO LEFT TURN (R3-2)	30"x24"	6
SIGN "I"	E. BOUND MAPLE CLOSED AT ARLINGTON AND SHIRLEY FOLLOW DETOUR	36"x72"	3

OTHER ADVANCED WARNING SIGN QUANTITIES AS SHOWN

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
R11-2	ROAD CLOSED	60"x30"	T.B.D.
R11-4	ROAD CLOSED FOR THRU TRAFFIC	60"x30"	T.B.D.

NOTES

1. PLACE TRAFFIC CONTROL DEVICES AS SPECIFIED, OR AS OTHERWISE DIRECTED BY THE CITY OF BIRMINGHAM, INCLUDING ADVANCE WARNING SIGNS AND BARRICADES NOT SPECIFIED ON THIS DIAGRAM. CONTRACTOR/INSPECTOR MUST ACCOMPANY SIGN SUBCONTRACTOR DURING PLACEMENT OF SIGNS THROUGHOUT VARIOUS TRAFFIC CONTROL CHANGES.
2. ALL SIGNS AND BARRICADING SHALL BE IN ACCORDANCE WITH CURRENT M.M.U.T.C.D. AND M.D.O.T. SPECIFICATIONS AND TRAFFIC TYPICALS, INCLUDING PLACEMENT OF ADDITIONAL REQUIRED SIGNS/BARRICADES NOT DEPICTED ON THESE PLANS TO CONTROL TRAFFIC, LANE SHIFTS, ETC.
3. ADVANCE WARNING SIGNS AND BARRICADES SHALL REMAIN IN PLACE UNTIL THE NEW ROAD (OR A PORTION THEREOF) IS READY TO BE OPENED FOR TRAFFIC AS DETERMINED BY THE CITY.
4. MAINTAIN SIDEWALKS AND INSTALL & MAINTAIN FENCING & SIGNAGE AS NEEDED TO ENSURE PEDESTRIAN SAFETY. UTILIZE MAINTENANCE AGGREGATE AS REQUIRED.
5. ERECT, REMOVE, AND/OR MAINTAIN ALL ADVANCE WARNING/DETOUR SIGNAGE AS DIRECTED BY THE CITY.
6. TYPE III BARRICADES (LIGHTED) SHALL BE PLACED FOR ALL LANE CLOSURES, AND SHALL INCLUDE A R11-2 OR R11-4 SIGN ON EACH TYPE III BARRICADE WHERE NOTED.
7. ALL SIDEWALK CLOSURES WITHIN CITY LIMITS SHALL HAVE TYPE III BARRICADES AND INCLUDE A SIDEWALK CLOSED SIGN. IF SIDEWALK CLOSURES ARE REQUIRED WITHIN M.D.O.T. RIGHT-OF WAY ON WOODWARD AVENUE (M-1), TYPE II BARRICADES SHALL BE USED.
8. LOCAL RESIDENT TRAFFIC (TWO-WAY) SHALL TYPICALLY BE MAINTAINED DURING CONSTRUCTION.
9. CONTRACTOR SHALL PROVIDE ADDITIONAL ADVANCED WARNING SIGNAGE TO INDICATE WHEN FULL-WIDTH CLOSURES WILL BE REQUIRED IN ISOLATED WORK AREAS. PROVIDE ADDITIONAL TYPE III BARRICADES/R11-2/R11-4 SIGNS AT MAPLE, LINCOLN & MIDDLE PORTION OF ARLINGTON FOR BOTH DIRECTIONS OF TRAFFIC.
10. CONTRACTOR SHALL PROVIDE FLAG CONTROL AS REQUIRED THROUGHOUT DURATION OF PROJECT.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

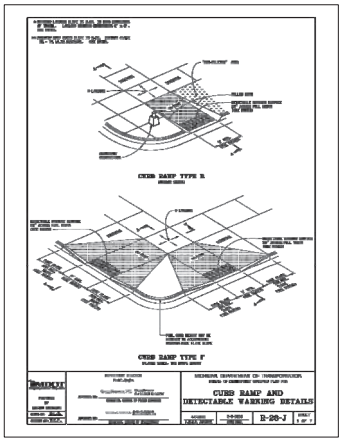
SHEET
Maple Rd. Traffic Detour Diagram

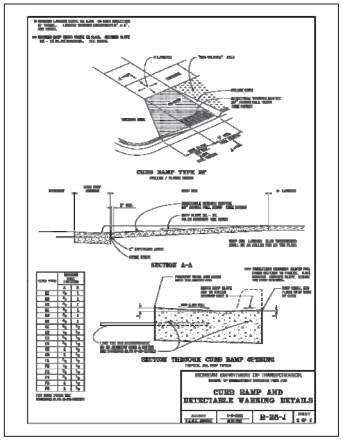
811
Know what's below
Call before you dig.

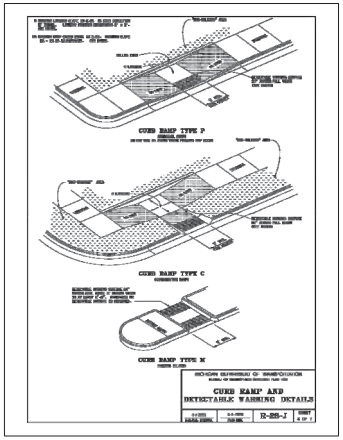
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

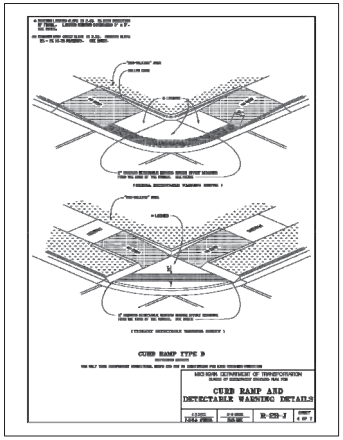
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

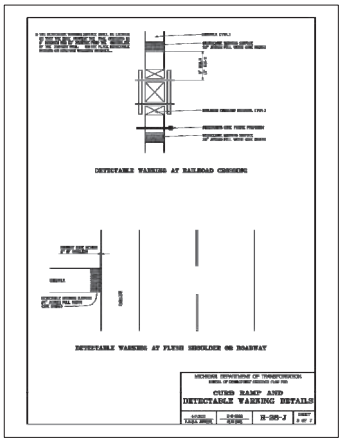
NFE JOB NO. N758
SHEET NO. C41

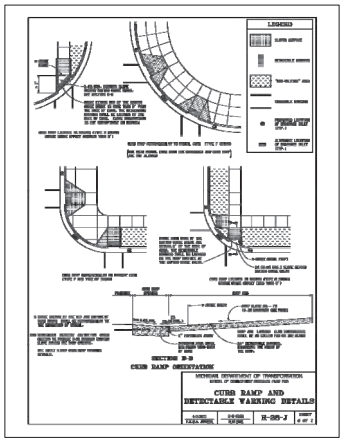


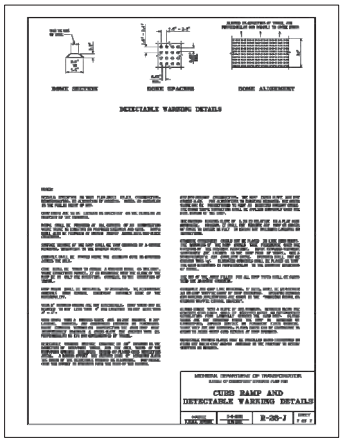












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SHEET
Notes and Details (1of 3)

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DATE	ISSUED/REVISED
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05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
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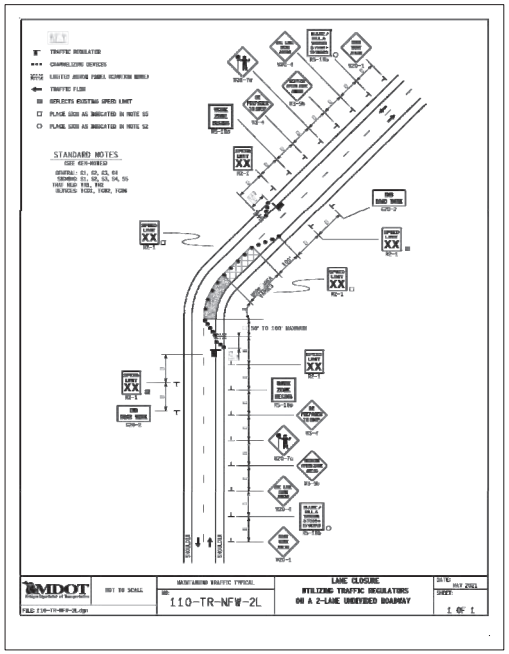
NFE JOB NO. N758
SHEET NO. C42


N.T.S.
TRAFFIC REGULATOR
CHANNELIZING DEVICES
LIMITED ARROW PANEL (CAUTION MODE)
TRAFFIC FLOW
REFLECTS EXISTING SPEED LIMIT
PLACE SIGN AS INDICATED IN NOTE S5
PLACE SIGN AS INDICATED IN NOTE S2
STANDARD NOTES
SEE 626-000E2
GENERAL: G1, G2, G3, G4
SIGNING: S1, S2, S3, S4, S5
TAPER WIDTH: W10, W40
ILLINOIS: V101, V1010, V1200
TAP TO 100' MAXIMUM
ROAD WORK AHEAD
END ROAD WORK
SPEED LIMIT XX
BE PREPARED TO STOP
ROAD WORK AHEAD
END ROAD WORK

GENERAL NOTES

1. BRICK PAVERS SHALL BE REMOVED BY MEANS WHICH CAUSE NO DAMAGE TO THE BRICKS. BRICKS SHALL BE DELIVERED TO CITY OF BIRMINGHAM DEPARTMENT OF SERVICES AS DIRECTED BY THE ENGINEER.
2. ALL PAVEMENT TO BE REMOVED SHALL BE SAWCUT FULL DEPTH.
3. ANY GRAVEL REPLACEMENT NECESSARY FOR REGRADING DRIVEWAYS SHALL BE CONSIDERED INCLUDED IN THE COST OF CONCRETE DRIVE APPROACH.
4. ALL TREES NOT INDICATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION. WHERE NECESSARY, TREE ROOTS SHALL BE CUT CLEANLY. AT NO TIME WILL RIPPING OR TEARING OF TREE ROOTS BE ACCEPTABLE.
5. ALL DRIVEWAYS (BEHIND THE SIDEWALK) SHALL BE REPAIRED WITH A CROSS SECTION WHICH MATCHES THE EXISTING IN THICKNESS, OR A MINIMUM 4.0" BITUMINOUS MIXTURE No. 13A. IF THE EXISTING DRIVEWAY IS GREATER THAN 4.0" IN DEPTH, THE THICKNESS OF THE BITUMINOUS MIXTURE No. 13A SHALL BE ADJUSTED TO MAKE UP THE DIFFERENCE.
6. UNLESS OTHERWISE SHOWN, PROPOSED GRADES IN PROFILE ARE TOP OF CURB GRADES.
7. ROCKS, OR OTHER MISC. DEBRIS WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS DIRECTED OTHERWISE FROM THE CITY.
8. THE PAY ITEM "ADJUST STRUCTURE COVER" APPLIES ONLY TO PRE-EXISTING STRUCTURES TO BE ADJUSTED TO PROPOSED GRADES AS PART OF CONSTRUCTION.
9. IF THE CONTRACTOR HAS MULTIPLE CREWS WORKING THAT REQUIRES MULTIPLE CITY INSPECTORS ON A GIVEN WORK DAY, THE PAY ITEM "INSPECTOR CREW DAYS" SHALL BE MULTIPLIED BY THE CORRESPONDING NUMBER OF INSPECTORS REQUIRED DURING SAID WORK DAY.

PAVING NOTES

1. PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

   CONCRETE ROAD: BASE COURSE – 21AA CRUSHED LIMESTONE AGGREGATE (8" THICK)
   MIX – PORTLAND CEMENT TYPE IA (AIR-ENTRAINED), TO COMPLY WITH MDOT 3500HP REQUIREMENTS.

   CONCRETE FLATWORK: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED), WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1.5 TO 3 INCHES. COMPLY WITH MDOT 3500 REQUIREMENTS.

   ALL CONCRETE PAVEMENT AND FLATWORK MIXES USED ON THIS PROJECT SHALL COMPLY WITH A MINIMUM GROUND GRANULATED BLAST-FURNACE SLAG (GGBFS) SUBSTITUTION OF TWENTY-FIVE (25) PERCENT SUBJECT TO SEASONAL LIMITATIONS PER THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION.

   ASPHALT: BASE COURSE – 21AA CRUSHED LIMESTONE AGGREGATE (8" THICK)

   SURFACE COURSE(S):
   ASPHALT ROAD – MDOT HMA MIXTURE NO. 5EML (MAX. APPLICATION RATE 220 POUNDS PER SQUARE YARD)

   LEVELING COURSE(S):
   ASPHALT ROAD – MDOT HMA MIXTURE NO. 4EML (MAX. APPLICATION RATE 220 POUNDS PER SQUARE YARD)

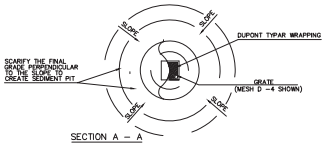
   BOND COAT – MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD
2. PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.
3. ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.
4. ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-S164.
5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2003 EDITION.
6. ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.
7. ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.
8. CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.
9. FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.
10. EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS (INCLUDED IN PAVING WORK).
11. EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.
12. SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.
13. ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.
14. FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.
15. R.A.P. NOT ALLOWED IN SURFACE / TOP COURSE OF ASPHALT.

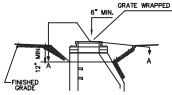
WATER MAIN NOTES

1. ALL WATER MAINS 4" AND LARGER SHALL BE DUCTILE IRON PIPE THICKNESS CLASS 52, WITH PUSH ON TYPE JOINTS PER CITY REQUIREMENTS.
2. NEW WATER MAINS SHALL BE INSTALLED WITH A MINIMUM 5.5 FEET OF COVER. EXCEPTIONS WILL BE ALLOWED WHEN NECESSARY TO CONNECT TO EXISTING MAIN OR WHEN AUTHORIZED BY THE ENGINEER.
3. KNOWN WATER SERVICES BASED ON FIELD INFORMATION OR CITY RECORDS ARE SHOWN ON THE PLANS AS FOLLOWS: "C" = COPPER, "L" = LEAD AND "W.S." = WATER SERVICE TYPE UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING ALL EXISTING SERVICES TO THE NEW MAIN AFTER IT HAS BEEN APPROVED FOR USE.
4. COAT ALL BOLTS ON MECHANICAL FITTINGS WITH TAR.
5. HYDRANT CONNECTION TO CONSIST OF 6" DUCTILE IRON PIPE, 6" GATE VALVE AND BOX, AND HYDRANT. HYDRANT SHALL BE EJIW MODEL 5BR WITH 6" MECHANICAL JOINT INLET, TWO PUMPER INLETS, ALL OPENING LEFT, 5'–6" TRENCH, PLUGGED DRAIN AND BLOCK BOLTS.
6. INSTALL GATE VALVE AS CLOSE TO HYDRANT AS PRACTICABLE.
7. GATE VALVES 4" AND LARGER MAY BE MUELLER BRAND SPECIFIED, OR APPROVED EQUIVALENT. ALL MATERIALS RELATIVE TO WATER SERVICE CONNECTIONS SHALL BE MUELLER BRAND.
8. IN ABANDONING MAINS, THE FOLLOWING SHALL BE DONE: PLUG ALL OPEN PIPE ENDS WITH MASONRY. DISCONNECT MAINS WHICH ARE TO BE ABANDONED FROM FITTINGS AT LIVE MAINS AND PLUG AND BLOCK THOSE FITTINGS. FILL MAIN TO BE ABANDONED WITH GROUT OR HYDRAULIC CEMENT.
9. WORK INDICATED BY (A) SHALL BE PERFORMED AFTER THE NEW MAINS ARE PLACED IN SERVICE.
10. THE LOCATIONS AND TYPES OF SERVICE LEADS IS BASED ON THE BEST AVAILABLE INFORMATION. THE EXACT LOCATION OF SERVICE LEADS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
11. WHERE APPLICABLE, THE APPROPRIATE SECTIONS OF EXISTING WATERMAIN SHALL BE SHUTDOWN AND DEPRESSURIZED PRIOR TO A) CUTTING AND REMOVING, B) CUTTING AND INSTALLING PROPOSED TEE CONNECTIONS, C) PERFORMING ANY AND ALL OTHER WORK AROUND/ADJACENT TO HYDRANTS AND ALL OTHER CONNECTIONS, WHILE MEETING AND/OR EXCEEDING APPLICABLE INDUSTRY SAFETY PRECAUTIONS AND MIOSHA STANDARDS.

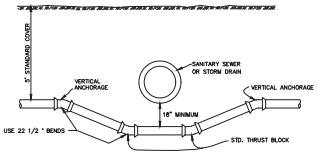
STORM SEWER NOTES (where applicable)

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY. THE MUNICIPALITY STANDARD NOTES, DETAILS AND SPECIFICATIONS SHALL BE INCORPORATED AS PART OF THESE PLANS.
2. ALL STORM SEWER TRENCHES UNDER OR WITHIN THREE (3) FEET OF EXISTING OR PROPOSED PAVEMENT SHALL BE BACK FILLED WITH MDOT CLASS II MATERIAL (SAND) AND BE MACHINE COMPACTED TO A MINIMUM OF 95 OF THE MATERIAL'S MAXIMUM DENSITY. PAVEMENT SHALL INCLUDE PARKING LOTS, DRIVE APPROACHES, 95 CURB & GUTTER AND ADJACENT WALKS.
3. ALL STORM SEWER PIPE SHALL BE INSTALLED ON CLASS "B" BEDDING OR BETTER UNLESS OTHERWISE INCLUDED ON THE PLANS.
4. STORM SEWER SHALL BE OF THE TYPE, SIZE & CLASS DESIGNATION INDICATED ON THE PLANS AND LIKEWISE BE INSTALLED AT THE PROPOSED LINE & GRADE INDICATED.
5. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM SPECIFICATION C–76 CL IV.
6. ALL MAN HOLE, CATCH BASIN, INLET, REAR YARD DRAINAGE STRUCTURES AND COVERS SHALL BE AS INDICATED ON THE PLANS AND CONSTRUCTED IN ACCORDANCE WITH MUNICIPALITY STANDARDS.
7. INSTALL TRAPS ON THE FIRST CATCH BASIN (TYPICALLY A 4' DIAMETER STRUCTURE WITH 2' SUMP) THAT IS UPSTREAM OF ITS CONNECTION TO A MAINLINE STORM OR SEWER MANHOLE, TO CAPTURE FLOATABLES AND TO MINIMIZE ESCAPE OF ODOR.
8. THE CONTRACTOR SHALL NOTIFY MISS DIG (1–800–482–7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
9. EXACT GRADES AND INVERTS OF PROPOSED STORM SEWER ARE TO BE CHECKED WITH THE FIELD ENGINEER PRIOR AND DURING INSTALLATION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY PLAN INCONSISTENCY AND/OR UTILITY CONFLICTS.
10. ALL STORM SEWER PIPE JOINTS SHALL BE "PREMIUM JOINT" MODIFIED GROOVED TONGUE (M.G.T.) WITH SYNTHETIC RUBBER GASKETS CONFORMING TO ASTM SPECIFICATION C–443 & C–361, UNLESS OTHERWISE INDICATED ON THE PLANS.
11. FACILITY MANUFACTURED PRECAST TEE SECTIONS SHALL BE FOR ROOF DRAINS AND/OR SUMP PUMP LEADS AND LATERALS WHERE INDICATED ON THE PLANS. BLIND TOP CONNECTIONS INTO STORM SEWER WILL NOT BE PERMITTED BY BREAKING PIPE WALL.
12. THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL SITE INSPECTIONS.

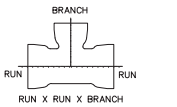




LOW POINT INLET FILTER & SEDIMENT PIT DETAIL
N.T.S.

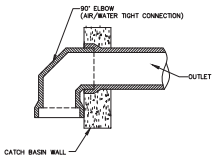


STANDARD SEWER OR STORM CROSSING
N.T.S.

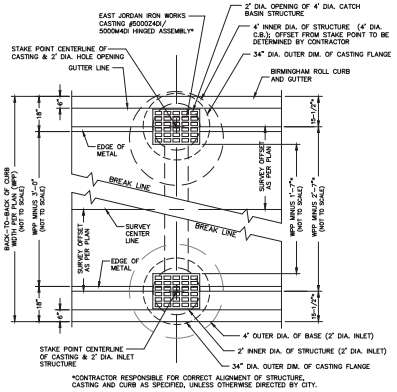


RUN X RUN X BRANCH

WATER MAIN TEE FITTING SIZE DESIGNATION SCHEMATIC
N.T.S.

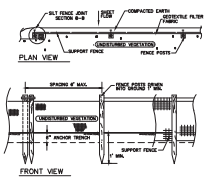


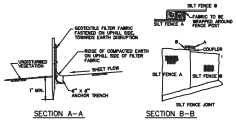
SEWER TRAP
N.T.S.



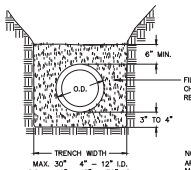
*CONTRACTOR RESPONSIBLE FOR CORRECT ALIGNMENT OF STRUCTURE, CASTING AND CURB AS SPECIFIED, UNLESS OTHERWISE DIRECTED BY CITY.

CURB, CATCH BASIN & INLET ALIGNMENT DETAIL PLAN VIEW
SCALE: 1" = 2'



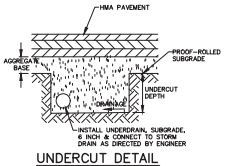


SILT FENCE DETAIL
N.T.S.

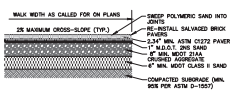


NOTE: APPROVAL MAY BE GIVEN TO ALTERNATE MATERIALS AND METHODS TO ACHIEVE CLASS B BEDDING.

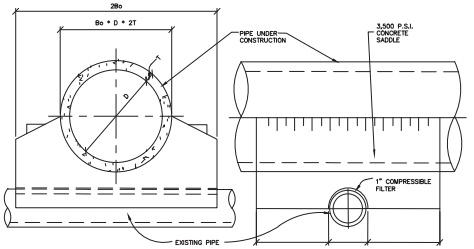
STANDARD PIPE BEDDING
N.T.S.



UNDERCUT DETAIL
N.T.S.

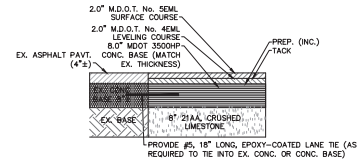


PEDESTRIAN CONCRETE PAVER SECTION (PEDESTRIAN TRAFFIC AREAS)
N.T.S.

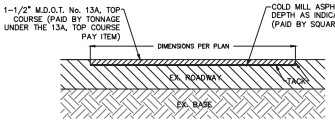


CONCRETE SADDLE REQUIRED WHEN DISTANCE BETWEEN PIPES IS LESS THAN 18 INCHES. COMPRESSIBLE FILTER SHALL BE NEOPRENE CONFORMING TO ASTM D1056, CLASS SBO–11 & CS09

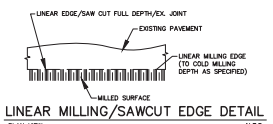
CONCRETE SADDLE OVER EXISTING UTILITIES
N.T.S.



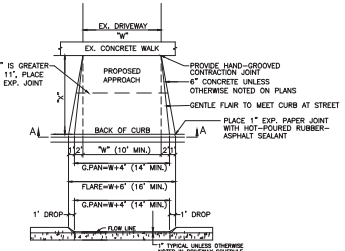
MAPLE RD. COMPOSITE PAVEMENT REPAIR SECTION
N.T.S.



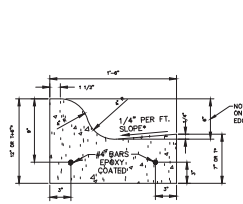
COLD MILL ASPHALT DETAIL
N.T.S.



LINEAR MILLING/SAWCUT EDGE DETAIL
PLAN VIEW N.T.S.

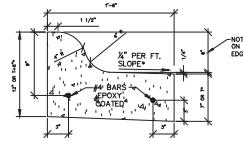


CONCRETE DRIVE APPROACH – DETAIL 'L'
N.T.S.



NOTE: OMIT #4 LONGITUDINAL BARS WHEN CURB & GUTTER IS POURED INTEGRAL OR TIED TO A NON–REINFORCED CONCRETE PAVEMENT.

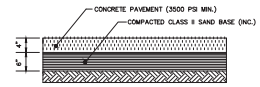
BIRMINGHAM 6" ROLL CURB CONCRETE CURB & STANDARD GUTTER DETAIL
N.T.S.



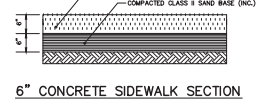
NOTE: OMIT #4 LONGITUDINAL BARS WHEN CURB & GUTTER IS POURED INTEGRAL OR TIED TO A NON–REINFORCED CONCRETE PAVEMENT.

BIRMINGHAM 6" ROLL CURB CONCRETE CURB & REVERSE GUTTER DETAIL
N.T.S.

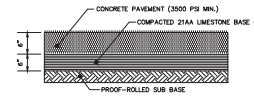
*NOTE: "T" IS EQUAL TO THE THICKNESS & SLOPE IS EQUAL TO THE CROSS–SLOPE OF THE CONCRETE PAVEMENT WHEN CURB & GUTTER IS POURED INTEGRAL TO THE PAVEMENT.



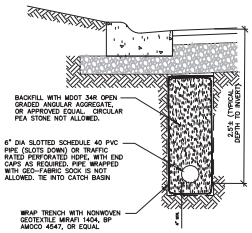
4" CONCRETE SIDEWALK SECTION
STANDARD SIDEWALK REPLACEMENTS/INSTALLATIONS N.T.S.



6" CONCRETE SIDEWALK SECTION
TO MATCH SPECIFIED PAVEMENT THICKNESS THROUGH DRIVE APPROACH N.T.S.



TYPICAL CONCRETE SECTION FOR RESIDENTIAL APPROACH
N.T.S.



6" PERFORATED PIPE UNDERDRAIN DETAIL
N.T.S.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Notes and Details (3 of 3)

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C44

BIRMINGHAM CONTRACT #9-24(W) - ARLINGTON RD. AND SHIRLEY DR. WATERMAIN PROJECT PAY ITEMS

NO.	ITEM DESCRIPTION	PAY UNIT	SHEET C1	SHEET C2	SHEET C3	SHEET C4	SHEET C5	SHEET C6	SHEET C7	SHEET C8	SHEET C9	SHEET C10	SHEET C11	SHEET C12	SHEET C13 - Utility Service Plan	SHEET C14 - Utility Service Plan	SHEET C15 Utility Service Plan	SHEET C16 Utility Service Plan	SHEET C17 Utility Service Plan	SHEET C18 Utility Service Plan	SHEET C25 P&G Plan	SHEET C26 P&G Plan	SHEET C27 P&G Plan	SHEET C28 P&G Plan	SHEET C29 P&G Plan	SHEET C30 P&G Plan	SHEET C31 P&G Plan	SHEET C32 P&G Plan	SHEET C33 P&G Plan	SHEET C34 P&G Plan	SHEET C36 P&G Plan	SHEET C36 P&G Plan	SHEET C37 P&G Plan	TOTAL QUANTITY
1	10" Combined Sewer, PVC SDR 26, Trench A	LF								161	299	158																						618
2	12" Combined Sewer, PVC SDR 26, Trench A	LF											212																						212
3	15" Combined Sewer, PVC SDR 26, Trench A	LF											86	50																					136
4	36" Storm Sewer, CTB, CL-IV, Trench A	LF	208																																208
5	21" Storm Sewer, CTB, CL-IV, Trench A	LF	129	129																															259
6	18" Storm Sewer, CTB, CL-IV, Trench A	LF		146																															146
7	15" Storm Sewer, CTB, CL-IV, Trench A	LF				32																													32
8	12" Storm Sewer, CTB, CL-IV, Trench A	LF		89	261	274	333	422	86		112	92	161	220																					2,319
9	10" Storm Sewer, PVC SDR 26, Trench A	LF								160																									160
10	Storm Point Repair, 12" Diameter, PVC SDR 26, Trench A	LF			66		49						39																						154
11	Sewer Service, 6" PVC SDR 26	LF													17																				17
12	Sewer Service, 6" PVC SDR 23.5	LF													352	239	161	226	311	267															1,556
13	New 4'-0" Diameter Combined Manhole, Casement Detail	EA								1		1	1																						3
14	New 4'-0" Diameter Combined Manhole	EA									2		2																						4
15	New 5'-0" Diameter Storm Manhole, Curbstop Detail	EA	1								1																								2
16	New 3'-0" Diameter Storm Catch Basin w/ 2' Sump & Dual Inlet Grate	EA											2																						2
17	New 3'-0" Diameter Storm Catch Basin w/ 2' Sump	EA	4	2																															6
18	New 4'-0" Diameter Storm Manhole, Casement Detail	EA					1																												1
19	New 4'-0" Diameter Storm Manhole w/ 2' Sump	EA					1		1					2																					4
20	New 6'-0" Diameter Storm Manhole	EA				1																													1
21	New 4'-0" Diameter Storm Catch Basin w/ 5' Sump, Casement Detail	EA		1		2		1																											4
22	New 3'-0" Diameter Storm Catch Basin w/ 5' Sump	EA			2	1	3	1	1	3	2	1		1																					15
23	New 3'-0" Diameter Storm Inlet	EA		2	1	2	3	2	3	2	3	1		3																					21
24	8" Reinforced Pipe Underdrain (Bid Item)	LF	600	1000	1000	200	300	150	300	100	100	80	50	150																					4,910
25	Sewer Investigation, Laterals	EA													8	3	14	12	8	8															53
26	Sewer Service Tap, 6"	EA													3			2	10	7															22
27	Sewer Service Connection, 6"	EA													1																					1
28	Sewer Service Connection, 8"	EA													12	1	16	11	1	1															55
29	Sewer Tap, 24"	EA	1																																1
30	Sewer Tap, 21"	EA				1																													1
31	Sewer Tap, 12"	EA					1		1			1	1																							4
32	Sewer Tap, 10"	EA								2																									2
33	Sewer Tap "X" Undetermined	EA	x																																x
34	Install Concrete Saddle at Utility Crossing	EA				1							2	2																					5
35	Reconstruct Manhole (if and where needed)	VF																																	100
36	Remove & Replace Pavement Over Sewer Trench for Style	SY																																	0 (x2)
37	Remove Ex. Sewer Manhole	EA					1	1	1	1	1	1	1																						7
38	Remove Ex. Drainage Structure	EA	2	4	2	2	3	4	4	1	2	1																							32
39	Abandon Ex. 18" Combined Sewer	LF							150	264																									414
40	Abandon Ex. 15" Combined Sewer	LF											260																						260
41	Remove Ex. 15" Combined Sewer	LF								102	124		8																						233
42	Remove Ex. 12" Combined Sewer	LF											11																						11
43	Remove Ex. 10" Combined Sewer	LF											97																						97
44	Remove Ex. 6" Combined Sewer	LF							9																										9
45	Remove Ex. 36" Storm Sewer	LF	13																																13
46	Remove Ex. 12" Storm Sewer	LF		52	15	60	155		49	21																									389
47	Remove Ex. 10" Storm Sewer	LF	64	24		43	38	64	15			40	68																						387
48	Remove Ex. 8" Storm Sewer	LF			66					87	101																								186
49	Remove Ex. 6" Storm Sewer	LF								8																									8
50	Bulkhead Structure, 12" or Less	EA	1	2	1	4	4	2	4	4	2																								24
51	Bulkhead Pipe, Larger than 8"	EA					1																												1
52	CCTV Sewer Acceptance Inspection	LS																																	1
	SUBTOTAL, SEWER PAY ITEMS																																		
	WATER MAIN PAY ITEMS																																		
53	Remove Hydrant	EA		1	1	1		1		1			1	1																					6
54	Remove Gate Valve Well	EA				2	2	1	1		2			1																					9
55	8" Gate Valve & Well	EA		1	1	1	2	2	1		1		1	1																					12
56	Fire Hydrant Assembly, Complete	EA	1	1	1	1	1	1	1	1	1	0	1	1																					12
57	16" DI, CL 52 Water Main w/ Polywrap, Trench A	LF							19																										19
58	8" D.I. CL 52 Water Main w/ Polywrap, Trench A	LF	772	697	619	616	573	548	732	220	486	328	512	591																					6,693
59	6" D.I. CL 52 Water Main w/ Polywrap, Trench A	LF	26	28	15	11	14	12	3	30	13	6	15	15																					208
60	24" Water Main Connection to Ex. 24" Water Main	EA							0																										0
61	8" Water Main Connection to Ex. 8" Water Main	EA	1					2					2																						5
62	New Water Service, 2", Trench A, Copper	LF														20																			20
63	New Water Service, 1", Trench A, Copper	LF													41	41	49	48	5	48															232
64	New Water Service, 1", Trench A, Copper	LF													13	84	104	38	53	91															401
65	New Water Service, 1", Private Property (Bundle, PEX)	LF																	65																65
66	Water Service Abandonment, 6"	AO														1	1																		2
67	Water Service Connection, 1.5"	EA													0	1	1	0	1	0															3
68	Water Service Connection, 1"	EA													1	6	16	0	4	9															36
69	Water Service Abandonment, 1" (Connection at Main, Will Strike)	EA																	1	1															2
70	Install Curb Stop & Box, 1"	EA														1	4																		5
71	Hydra Stop, Insta-Valve 304, 12"	EA							1																										1
72	Hydra-Stop, Line-Stop, 12"	EA																																	0
73	Hydra-Stop, Line-Stop, 8"	EA																																	0
74	Hamden Existing Water Mains, Drive Project	LS																																	1
	SUBTOTAL, WATER MAIN PAY ITEMS																																		
	PAVING PAY ITEMS																																		
75	Earth Excavation	CY																			445	569	686	966	726	670	569	668	445	556	609	668	556	7,669
76	Subgrade Undercutting, Under Limestone	CY																																	116
77	Subgrade Undercutting, Full Limestone	CY																																	751
78	Subgrade Geogrid Fabric, Tensar Triax TX7000	SY																																	2,100
79	Existing and Salvage Brick Pavers	SF																			0	329	90	349	0	72	0	59	90	0	24	200	0	1,213
80	Removing Concrete Drive Approach	SY																			0	63	27	109	0	71	0	58	0	0	0	0	0	374
81	Removing Asphalt Drive Approach	SY																			39	153	27	109	0	71	0	58	0	0	143	103	11	800
82	Removing Concrete Sidewalk & Ramp (coincutting included)	SY																				1	0	6								27	16	231
83	Removing Pavement Full Depth (Curb & Gutter included)	SY																			1440	1631	1618	2373	2256									21,184
84	Aggregate Base, MDOT 21AA Limestone, 8"	SY																			1440	1440	1440	2686	2256	2153	1618	1618	1440	1618	1440	2131	1440	24,022
85	Replace Maple Road Composite Pavement at Arlington (Per Detail)	LS																																	1
86	Replace Maple Road Composite Pavement at Shirley (Per Detail)	LS																																	1
87	Bituminous Mixture No. 4FML (2.5" Wearing Course)	TON																			157	185	184	292	254	250	185	185	153	172	185	232	185	2,564
88	Bituminous Mixture No. 4FML (2.5" Leveling Course)	TON																			117	163	163	265	224	209	163	163	135	152	163	205	135	2,344
89	Concrete Curb & Gutter (18" Wide, "Birmingham Roll")	LF																			800	1631	1091	1372	1525	1382	833	1631	815	897	1092	1091	868	16,164
90	Concrete Drive Approach, 8"	SY																			32	645	149	200	112	111	91	91	80	100	119	73	119	1,922
91	Concrete Sidewalk, 4"	SF																								270	1166					266	1110	3,067
92	Salvage/Relay Salvaged Brick Pavers	SF																															180	180
93	Hardscape Remix, Truncated Domes	SF																								36						36	36	72
94	Maple Shoreline Crew	MA	1	0	1	0	1	0	1	1	1	1	0	0																					10
95	Maintenance Aggregate for Entire Project	LS																																	1
	SUBTOTAL, PAVING PAY ITEMS																																		
	GENERAL PAY ITEMS																																		
96	Mobilization (Max. 5% of Bid)	LS																																	1
97	Traffic Maintenance & Control	LS																																	1
98	Inspector Crew Days	DAYS																																	
99	Rates and Taxes Allowance	LS																																	1
100	Pavement Marking Polyurea, 24 inch Crosswalk/Hatching, White	LF																								42									42
101	Pavement Marking Polyurea, 4" inch, White or Blue	LF																															175		175
102	Temporary Pavement Marking, Type III	SF																																	447
103	Salvage Existing Signs	LS																																	1
104	New Signs	SF																																	50
105	Sign Post, U-Channel	LF																																	35
106	Wood Split Rail Fence	LF																															125		125
107	Tree Protection, 3" Dia. Or Greater	EA																			12	15	16	16	8	12	13	12	7	10	13	16	3	143
108	Reserved	CY																			10	10	10	10	10	10	10	10	10	10	10	10	10	140
109	Topsoil, 3"	SY																			510	480	600	600	480	540	510	600	450	510	600	600	600	8,280
110	Sod, Class A	SY																			510	480	600	600	480	540	510	600	450	510	600	600	600	8,280
111	Sod Yard	MA																																	0
112	Seed Salvaged Fill	SA																																	20
	SUBTOTAL, GENERAL PAY ITEMS																																		
	ALTERNATE #1 - "ROUGE RIVER STORM OUTFALL"																																		
	ALTERNATE #1 PAY ITEMS																																		
113	24" Storm Sewer, CTB, CL-IV, Trench A	LF																																	358
114	12" Storm Sewer, CTB, CL-IV, Trench A	LF																																	46
115	Remove Ex. MH 16A & Install Certech SCD-72 Water Quality Structure	EA																																	1
116	Install Certech CDS Water Quality Structure	EA																																	1
117	New 5'-0" Diameter Storm Manhole, Curbstop Detail	EA																																	1
118	New 5'-0" Diameter Storm Manhole	EA																																	1
119	New 5'-0" Diameter Storm Manhole	EA																																	2
120	New 36" Dia. End Section w/ Rip Screen	EA																																	1
121	Natural Stone Rip-Rap, 12"-18"	SY																																	20
	SUBTOTAL ALTERNATE #1 PAVING & GENERAL PAY ITEMS																																		

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
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FAX. (248) 332-8257
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

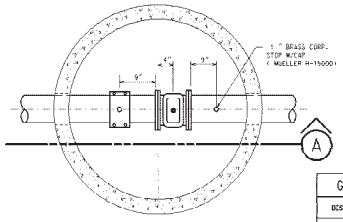
SHEET
Quantities

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

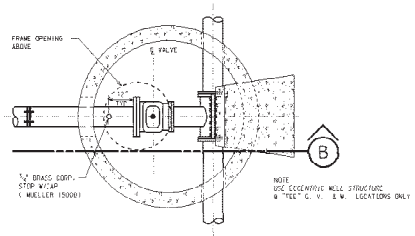
NFE JOB NO. N758
SHEET NO. Q1



GATE WELL PLAN

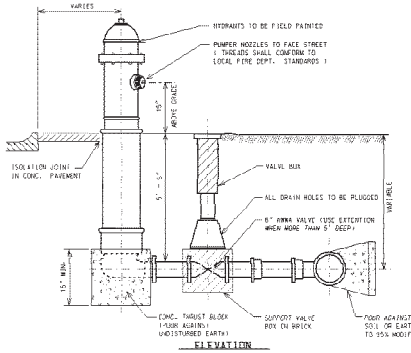
NO SCALE

GATE WELL SCHEDULE		PIPE DIA. INCHES		
DESCRIPTION	DIM.	6" & 8"	12"	16"
INSIDE DIA.	A	60"	72"	72"
WALL THICK.	B	5"	7"	7"
VALVE BLOCK THICK.	C	4"	4"	4"

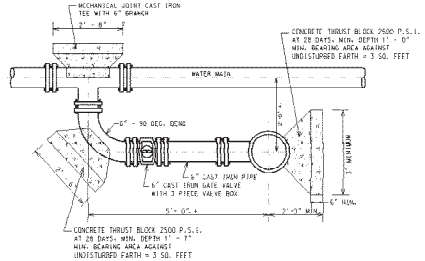


TAPPING SLEEVE, VALVE & WELL PLAN

NO SCALE



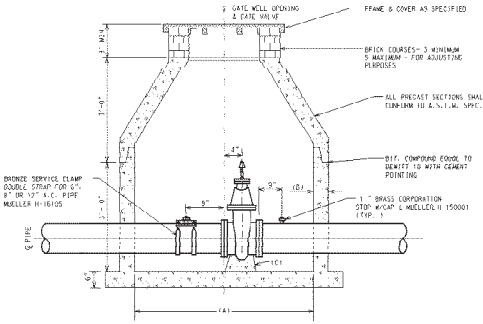
ELEVATION



"L" HYDRANT CONNECTION

NO SCALE

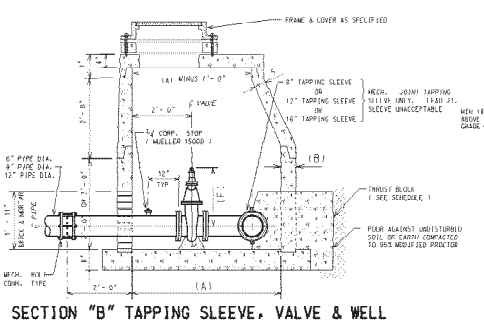
W-9



SECTION "A" GATE WELL

NO SCALE

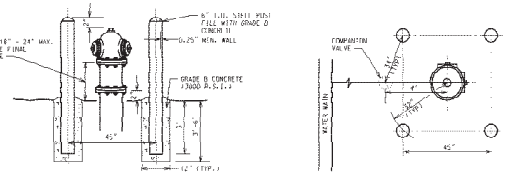
W-1 & W-3



SECTION "B" TAPPING SLEEVE, VALVE & WELL

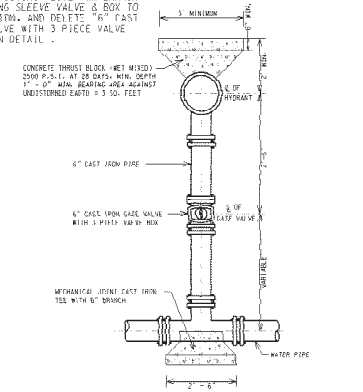
NO SCALE

W-4



FIRE HYDRANT GUARD POSTS DETAIL

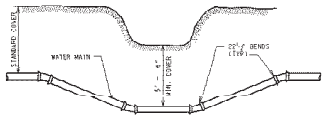
NOTE: FOR CONSTRUCTION OF NEW FIRE HYDRANT TO EXISTING LIVE WATERMAIN USE 6" TAPPING SLEEVE VALVE & BOX TO MAKE CONNECTION. AND DELETE "6" CAST IRON GATE VALVE WITH 3 PIECE VALVE AS SHOWN ON DETAIL .



STRAIGHT HYDRANT CONNECTION

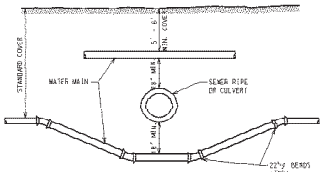
NO SCALE

W-10



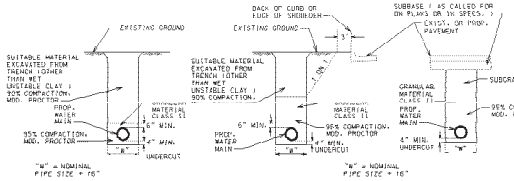
DITCH AND STREAM CROSSING

NO SCALE



SEWER OR CULVERT CROSSING

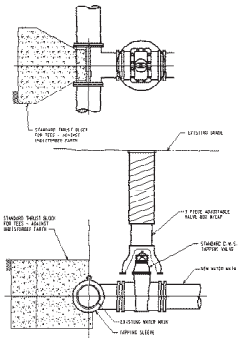
NO SCALE



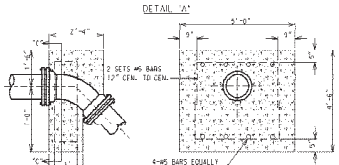
PROP. WATER MAINS NOT UNDER PAVED SURFACE

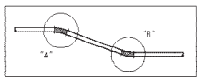
PROP. WATER MAINS UNDER PAVED SURFACE OR WITHIN INFLUENCE OF PAVED SURFACE

BEDDING DETAILS

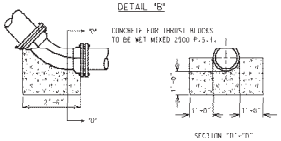


TAPPING SLEEVE & VALVE W/VALVE BOX

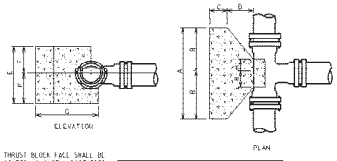




DETAIL "B"



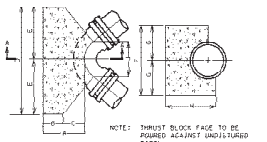
VERTICAL BEND THRUST BLOCKS FOR 8"-12" MAINS



SCHEDULE OF THRUST BLOCK DIMENSIONS		TEE SIZE	
CODE	8"x8" 12"x8" 16"x8" 24"x8"	12"x12" 16"x12" 24"x12"	16"x16" 24"x16"
A	3'-0"	4'-0"	5'-0"
B	3'-0"	4'-0"	5'-0"
C	1'-0"	1'-6"	2'-0"
D	1'-0"	1'-6"	2'-0"
E	1'-0"	1'-6"	2'-0"
F	1'-0"	1'-6"	2'-0"
G	12"	2'-0"	2'-10"
	16"	2'-10"	3'-8"
	24"	3'-7"	4'-6"
H	8"	0'-6"	
	12"	0'-6"	0'-10"
	16"	0'-6"	0'-10" 1'-10"
	24"	0'-6"	0'-10" 1'-10"

CONCRETE THRUST BLOCK FOR TEES

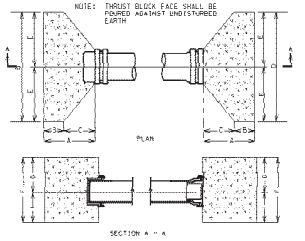
N.T.S.



SIZE	ANGLE	A MIN.	B MIN.	C	D	E	F	G	H MIN.	J
6"	45°	1'-0"	0'-9"	1'-0"	2'-4"	1'-0"	2'-0"	1'-0"	1'-11"	1'-6"
8"	90°	1'-9"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	1'-11"	1'-2"
12"	22-1/2°	1'-9"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	2'-0"	1'-4"
12"	45°	2'-1"	0'-9"	1'-6"	3'-6"	1'-9"	2'-6"	1'-3"	2'-6"	1'-6"
12"	90°	2'-1"	0'-9"	1'-6"	3'-6"	1'-9"	2'-6"	1'-3"	2'-6"	1'-6"
16"	22 1/2°	1'-9"	1'-0"	1'-9"	3'-4"	1'-8"	2'-6"	1'-3"	3'-0"	1'-2"
16"	45°	2'-5"	1'-0"	1'-9"	5'-4"	2'-8"	3'-0"	1'-6"	3'-0"	1'-6"
16"	90°	2'-8"	1'-0"	1'-9"	6'-0"	3'-0"	5'-0"	2'-6"	3'-0"	1'-8"
24"	90°	4'-3"	1'-0"	1'-9"	10'-0"	5'-0"	7'-0"	3'-6"	5'-0"	2'-2"

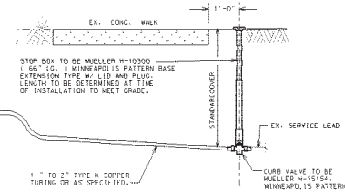
CONCRETE THRUST BLOCK FOR BENDS

N.T.S.



SIZE	A MIN.	B MIN.	C	D	E	F	G
8"	1'-11"	0'-9"	1'-0"	2'-4"	3'-0"	1'-6"	1'-0"
12"	2'-7"	0'-9"	1'-6"	4'-0"	3'-0"	2'-0"	1'-6"
16"	2'-8"	1'-0"	1'-8"	5'-0"	3'-0"	2'-6"	2'-0"

CONC. THRUST BLOCKS FOR PLUGS & CAPS



WATER SERVICE CONNECTION (TYP)

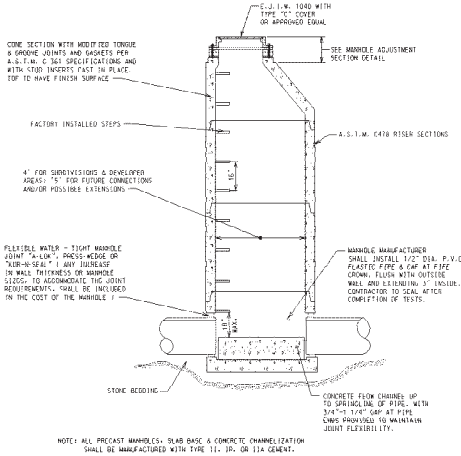
NO SCALE

City of Birmingham

151 MARTIN STREET BIRMINGHAM, MICHIGAN 48102

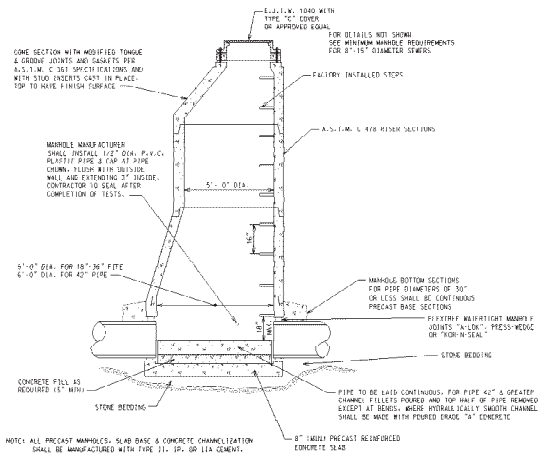
WATER MAIN STANDARD DETAILS

DATE	ENGINEERING REVISION	DRAWN	PROJECT NO.	SHEET NO.
		DESIGNED	DATE APRIL 2005	WM-1
		APPROVED	SCALE	



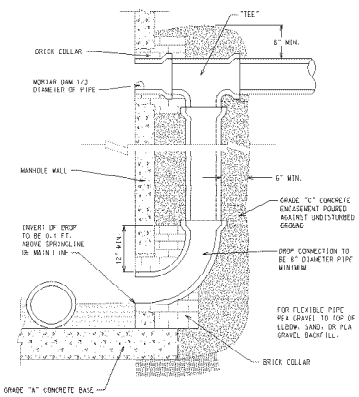
SEWER MANHOLE

(6" THRU 15" DIA. SEWERS)

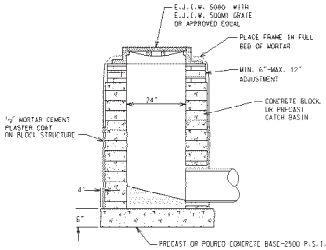


SEWER MANHOLE

(18" THRU 42" DIA. SEWERS)

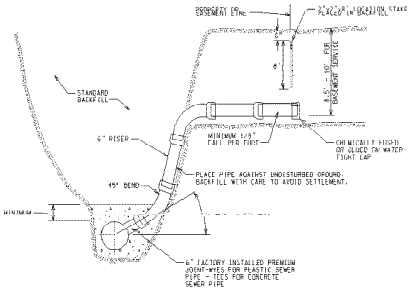


EXTERNAL DROP CONNECTION



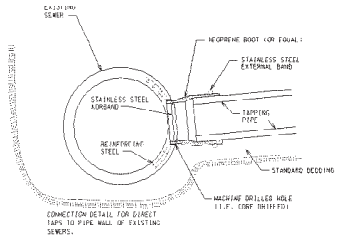
2 FT. DIAMETER INLET

NOTE:
FOR CATCH BASINS OR INLETS WITHIN YARD AREAS USE E.J.I.W. 1040 WITH TYPE "H" COVER OR APPROVED EQUAL



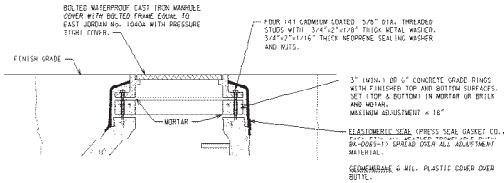
BUILDING LEAD DETAIL

0' - 15' COVER

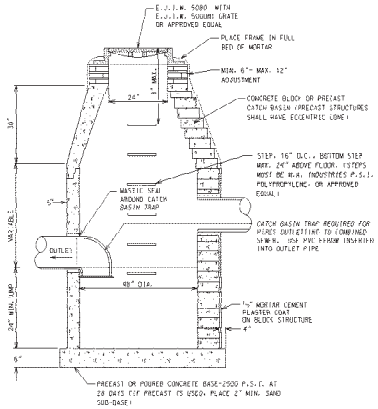


KOR-N-TEE TAP FOR CONCRETE

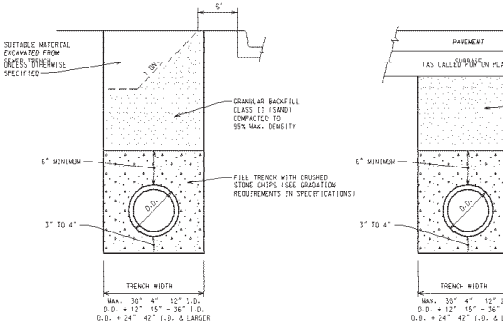
NO SCALE

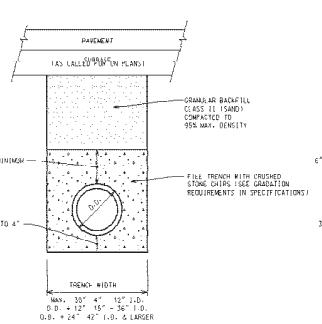


SANITARY MANHOLE ADJUSTMENT SECTION DETAIL



4 FT. DIAMETER CATCH BASIN

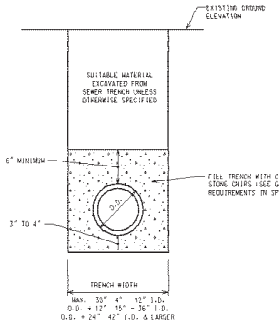




TRENCH DETAIL "A"

SEWER UNDER ROAD BED OR WITHIN THE INFLUENCE OF ROAD BED

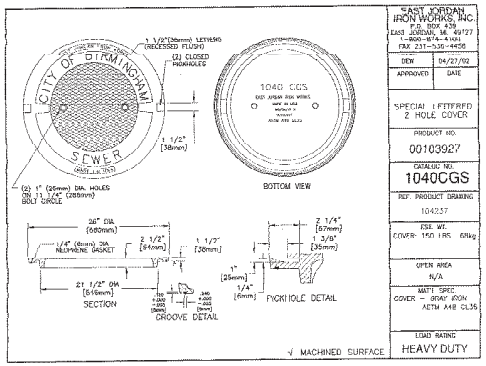
NOT TO SCALE



TRENCH DETAIL "B"

SEWER NOT UNDER ROAD BED

NOT TO SCALE



EAST JORDAN IRON WORKS, INC.
P.O. BOX 439
EAST JORDAN, MI 49727
800-874-4941
FAX 231-536-4406

DRN	04/27/02
APPROVED	DATE

SPECIAL (FETTERED 2 HOLE COVER

PRODUCT NO.
00103927

CATALOG NO.
1040CGS

REF. PRODUCT DRAWING
104237

NSE WT.
COVER- 150 LBS. 68kg

OPEN AREA
N/A

MATL SPEC
COVER — GRAY IRON ASTM A48 CL35

LOAD RATING
HEAVY DUTY

City of Birmingham

151 MARTIN STREET BIRMINGHAM, MICHIGAN 48102

SEWER STANDARD DETAILS

DATE	SUBDIVISION AND/OR ADDITION	DRAWN	PROJECT NO.	SHEET NO.
		CHECKED	DATE JANUARY 2007	
		APPROVED	SCALE	

Arlington, Shirley, and Brandon Project
Paving Special Assement District

Sidwell Number	Street Address	Total Assessable Length (LFT)	Road SAD Costs	Approach SAD Costs	Total Paving SAD Costs
19-35-202-033	218 Arlington	85.00	$13,331.20	$1,263.15	$14,594.35
19-35-202-034	222 Arlington	85.00	$13,331.20	$1,945.62	$15,276.82
19-35-202-035	280 Arlington	101.36	$15,897.46	$1,676.00	$17,573.46
19-35-202-036	316 Arlington	101.36	$15,897.46	$1,731.00	$17,628.46
19-35-202-039	414 Arlington	102.94	$16,144.09	$1,670.00	$17,814.09
19-35-202-040	432 Arlington	102.94	$16,144.09	$1,753.50	$17,897.59
19-35-202-041	444 Arlington	223.96	$35,125.06	$2,925.30	$38,050.36
19-35-202-042	500 Arlington	102.72	$16,110.76	$2,106.00	$18,216.76
19-35-202-043	550 Arlington	102.72	$16,110.76	$3,873.45	$19,984.21
19-35-202-044	600 Arlington	94.24	$14,780.31	$3,769.00	$18,549.31
19-35-202-045	700 Arlington	94.24	$14,780.31	$1,606.00	$16,386.31
19-35-202-046	730 Arlington	82.58	$12,951.26	$2,706.00	$15,657.26
19-35-202-047	776 Arlington	82.58	$12,951.26	$1,369.00	$14,320.26
19-35-202-048	800 Arlington	85.31	$13,379.20	$2,276.00	$15,655.20
19-35-202-049	860 Arlington	85.31	$13,380.53	$2,963.10	$16,343.63
19-35-202-050	898 Arlington	89.61	$14,053.76	$2,767.00	$16,820.76
19-35-202-051	924 Arlington	89.63	$14,057.75	$2,092.65	$16,150.40
19-35-202-052	968 Arlington	100.67	$15,789.48	$2,695.00	$18,484.48
19-35-202-053	992 Arlington	100.67	$15,788.15	$1,679.56	$17,467.70
19-35-202-055	1420 W. Lincoln	66.67	$10,455.85	$1,462.00	$11,917.85
19-35-202-068	400 Arlington	216.41	$33,941.25	$4,165.35	$38,106.60
19-35-202-069	1589 W. Maple	166.15	$26,058.50	$1,445.00	$27,503.50
19-35-226-001	117 Arlington	85.00	$13,331.20	$2,740.50	$16,071.70
19-35-226-002	175 Arlington	85.00	$13,331.20	$3,062.85	$16,394.05
19-35-226-003	243 Arlington	85.00	$13,331.20	$3,491.00	$16,822.20
19-35-226-004	269 Arlington	84.96	$13,324.54	$1,814.00	$15,138.54
19-35-226-006	345 Arlington	108.03	$16,942.63	$1,314.60	$18,257.23
19-35-226-009	100 Shirley	103.28	$16,197.41	$3,018.00	$19,215.41
19-35-226-010	188 Shirley	105.60	$16,561.35	$1,543.00	$18,104.35
19-35-226-011	226 Shirley	90.95	$14,264.39	$2,930.00	$17,194.39
19-35-226-012	252 Shirley	90.95	$14,264.39	$2,871.00	$17,135.39
19-35-226-013	288 Shirley	90.95	$14,264.39	$2,487.00	$16,751.39
19-35-226-014	300 Shirley	90.95	$14,264.39	$4,345.00	$18,609.39
19-35-226-016	377 Arlington	128.34	$20,128.55	$4,288.00	$24,416.55
19-35-226-017	350 Shirley	147.19	$23,085.65	$3,841.00	$26,926.65
19-35-226-018	309 Arlington	85.14	$13,353.87	$2,442.00	$15,795.87
19-35-226-019	327 Arlington	93.52	$14,666.99	$2,442.00	$17,108.99

Arlington, Shirley, and Brandon Project
Paving Special Assement District

19-35-227-004	345 Shirley	130.19	$20,418.07	$2,539.00	$22,957.07
19-35-227-005	361 Shirley	123.25	$19,330.25	$3,312.00	$22,642.25
19-35-227-006	381 Shirley	114.58	$17,970.46	$2,124.00	$20,094.46
19-35-227-008	421 Arlington	105.53	$16,550.69	$1,479.00	$18,029.69
19-35-227-009	445 Arlington	105.53	$16,550.69	$2,897.00	$19,447.69
19-35-227-010	463 Arlington	109.43	$17,162.59	$2,869.60	$20,032.19
19-35-227-011	487 Arlington	112.39	$17,626.52	$3,229.60	$20,856.12
19-35-227-012	503 Shirley	101.34	$15,893.46	$2,655.00	$18,548.46
19-35-227-013	585 Shirley	100.81	$15,810.81	$3,201.44	$19,012.25
19-35-227-034	680 Linden	46.00	$7,214.53	$0.00	$7,214.53
19-35-227-035	619 Shirley	85.00	$13,331.20	$1,505.70	$14,836.90
19-35-227-036	663 Shirley	117.50	$18,428.43	$1,221.00	$19,649.43
19-35-227-037	200 Linden	20.31	$3,185.77	$2,091.00	$5,276.77
19-35-276-001	503 Arlington	174.78	$27,412.09	$3,812.55	$31,224.64
19-35-276-002	577 Arlington	85.00	$13,331.20	$2,483.25	$15,814.45
19-35-276-003	645 Arlington	180.23	$28,266.15	$1,411.20	$29,677.35
19-35-276-006	779 Arlington	98.18	$15,397.54	$1,773.00	$17,170.54
19-35-276-007	843 Arlington	98.18	$15,397.54	$1,969.00	$17,366.54
19-35-276-008	881 Arlington	85.00	$13,331.20	$2,922.00	$16,253.20
19-35-276-009	945 Arlington	93.76	$14,704.32	$1,694.00	$16,398.32
19-35-276-010	975 Arlington	153.85	$24,129.48	$2,414.21	$26,543.69
19-35-276-011	1057 Arlington	124.95	$19,596.87	$1,736.00	$21,332.87
19-35-276-012	550 Shirley	85.00	$13,331.20	$3,108.00	$16,439.20
19-35-276-013	640 Shirley	123.25	$19,330.25	$1,686.40	$21,016.65
19-35-276-014	708 Shirley	184.18	$28,886.05	$4,431.00	$33,317.05
19-35-276-015	770 Shirley	97.75	$15,330.88	$1,808.00	$17,138.88
19-35-276-016	822 Shirley	97.75	$15,330.88	$1,331.40	$16,662.28
19-35-276-017	880 Shirley	100.39	$15,744.15	$3,302.00	$19,046.15
19-35-276-018	914 Shirley	100.39	$15,745.49	$1,578.15	$17,323.64
19-35-276-023	737 Arlington	129.20	$20,263.43	$1,443.75	$21,707.18
19-35-276-024	970 Shirley	141.95	$22,263.11	$0.00	$22,263.11
19-35-277-001	735 Shirley	114.94	$18,026.92	$3,369.45	$21,396.37
19-35-277-002	789 Shirley	85.00	$13,331.20	$2,684.00	$16,015.20
19-35-277-003	811 Shirley	88.40	$13,864.45	$1,430.00	$15,294.45
19-35-277-004	855 Shirley	102.48	$16,073.43	$3,964.00	$20,037.43
19-35-277-005	905 Shirley	97.44	$15,281.56	$1,317.00	$16,598.56
19-35-277-006	955 Shirley	124.95	$19,596.87	$2,013.90	$21,610.77

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

City Clerk's Office

DATE: **June 17, 2024**

TO: **Melissa Coatta, City Engineer**

FROM: **Alexandria Bingham, City Clerk**

SUBJECT: **Clerk's Confirmation of Public Hearing Notice: Arlington, Shirley, and Brandon Street Project, Contract #6-24(W) - Paving Special Assessment District (SAD)**

The public hearing notice process has been completed for the Arlington, Shirley, and Brandon Street Project, Contract #6-24(W) - Paving Special Assessment District (SAD). Please see attachments for further confirmation.

Mailing Date: 6/4/2024
Test Mail Return Date: 6/7/2024
Publishing Dates in the Oakland Press: 6/9/2024 & 6/16/2024
Posted in www.bhamgov/publicnotices: 6/4/2024

Attachments:

1. Public Hearing Notice
2. Addresses
3. Mailing Letter
4. Mail Machine Counter Report
5. Proof of publishing for 6/9/2024 & 6/16/2024

NOTICE OF PUBLIC HEARING

BIRMINGHAM CITY COMMISSION

PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL

Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, June 24, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Project Location:	Arlington, Brandon, Shirley: 1935202033 218 Arlington 1935202034 222 Arlington 1935202035 280 Arlington 1935202036 316 Arlington 1935202039 414 Arlington 1935202040 432 Arlington 1935202041 444 Arlington 1935202042 500 Arlington 1935202043 550 Arlington 1935202044 600 Arlington 1935202045 700 Arlington 1935202046 730 Arlington 1935202047 776 Arlington 1935202048 800 Arlington 1935202049 860 Arlington 1935202050 898 Arlington 1935202051 924 Arlington 1935202052 968 Arlington 1935202053 992 Arlington 1935202055 1420 W. Lincoln 1935202068 400 Arlington 1935202069 1589 W Maple 1935226001 117 Arlington 1935226002 175 Arlington 1935226003 243 Arlington 1935226004 269 Arlington 1935226006 345 Arlington 1935226009 100 Shirley 1935226010 188 Shirley 1935226011 226 Shirley 1935226012 252 Shirley 1935226013 288 Shirley 1935226014 300 Shirley 1935226016 377 Arlington 1935226017 350 Shirley 1935226018 309 Arlington 1935226019 327 Arlington 1935227004 345 Shirley 1935227005 361 Shirley 1935227006 381 Shirley 1935227008 421 Arlington 1935227009 445 Arlington 1935227010 463 Arlington 1935227011 487 Arlington 1935227012 503 Shirley 1935227013 585 Shirley 1935227034 680 Linden 1935227035 619 Shirley 1935227036 663 Shirley 1935227037 200 Linden 1935276001 503 Arlington 1935276002 577 Arlington 1935276003 645 Arlington 1935276006 779 Arlington 1935276007 843 Arlington 1935276008 881 Arlington 1935276009 945 Arlington 1935276010 975 Arlington 1935276011 1057 Arlington 1935276012 550 Shirley 1935276013 640 Shirley 1935276014 708 Shirley 1935276015 770 Shirley 1935276016 822 Shirley 1935276017 880 Shirley 1935276018 914 Shirley 1935276022 1000 Shirley 1935276023 737 Arlington 1935276024 970 Shirley 1935277001 735 Shirley 1935277002 789 Shirley 1935277003 811 Shirley 1935277004 855 Shirley 1935277005 905 Shirley 1935277006 955 Shirley 1935277034 City Owned Property 1935277048 Linden Park 1935277049 City Owned Property
Nature of Improvement:	The City will reconstruct the unimproved streets to improved roads consisting of new concrete curb and gutter, an engineered aggregate base, and asphalt pavement with no sidewalks per the City Commission resolution from the February 5, 2024 meeting.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248)530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/9/2024 & 6/16/2024
Approved minutes may be reviewed at:	City Clerk's Office or www.bhamgov.org/commissionagendas

Should you have any statement regarding the above, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**

You or your agent may appear at the hearings to express your views; however, if you fail to protest either in person or by letter received on or before the date of the hearing, you cannot appeal the amount of the special assessment to the Michigan Tax Tribunal. Mail any correspondence to: City Clerk, P.O. Box 3001, Birmingham, MI 48012.

The property owner may file a written appeal of the special assessment with the State Tax Tribunal within 30 days after the confirmation of the special assessment roll if that special assessment was protested at the hearing held for the purpose of confirming the roll.

All special assessments, including installment payments, shall, from the date of the confirmation thereof, constitute a lien on the respective lots or parcels assessed, and until paid shall be charged against the respective owners of the lots or parcels assessed.

Persons with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk's Office at 248.530.1880 (voice) or 248.644.3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.

Parcel Identification Number		First Owner Name	Postal Address	Postal City Postal State Postal Zip 5
Parcel: 1935202033	218 Arlington	KERRY AND JULIE MILLIRON	218 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202034	222 Arlington	LORI BETH CONWAY REVOC TRUST	222 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202035	280 Arlington	NIHARIKA RAMDEV	280 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202036	316 Arlington	ROBERT A EPSTEIN	4111 ANDOVER RD	BLOOMFIELD HILLS, MI 48302
Parcel: 1935202039	414 Arlington	ROBERT A EPSTEIN	414 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202040	432 Arlington	CHARLES F SCHWARTZ	432 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202041	444 Arlington	ETHAN D DAVIDSON REVOC TRUST	444 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202042	500 Arlington	ETHAN D DAVIDSON REVOC TRUST	444 ARLINGTON ST	BIRMINGHAM, MI 48009
Parcel: 1935202043	550 Arlington	SHERRY L MCCORMICK REVOC TRUST	550 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202044	600 Arlington	RYAN J CHAYKA	600 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202045	700 Arlington	SCHWEGMAN LIVING TRUST	700 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202046	730 Arlington	HEIDI PINKERT	42 CREST DR S	CRESSKILL, NJ 07626
Parcel: 1935202047	776 Arlington	FREMONT SCOTT	776 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202048	800 Arlington	STEVEN R MILLER	800 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202049	860 Arlington	KEVIN MARSH	860 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202050	898 Arlington	GEORGE ABRAHAM	898 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202051	924 Arlington	GEOFFREY TRIVAX	924 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202052	968 Arlington	RONALD F SAWYER AND KRIS A SAWYER	968 ARLINGTON	BIRMINGHAM, MI 48009
Parcel: 1935202053	992 Arlington	JANET M LANNEN TRUSTEE	992 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202055	1420 W. Lincoln	WILLIAM C EDMUNDS	1420 W LINCOLN AVE	BIRMINGHAM, MI 48009
Parcel: 1935202068	400 Arlington	ROBERT A EPSTEIN REVOC LVNG TRUST	400 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935202069	1589 W Maple	FIRST UNITED METHODIST CHURCH OF BIRMINGHAM	1589 W MAPLE RD	BIRMINGHAM, MI 48009
Parcel: 1935226001	117 Arlington	JOANNE Z BAUGHMAN REVOC TRUST	117 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226002	175 Arlington	KARLEE NOVICE	175 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226003	243 Arlington	LISA M DRAKE	243 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226004	269 Arlington	MIDGE MORAN	269 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226006	345 Arlington	ROGER N STEED	345 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226009	100 Shirley	NICHOLAS A COULSON	100 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935226010	188 Shirley	GARY W SALTZGIVER	188 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935226011	226 Shirley	NICHOLAS J SHEBIB	226 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935226012	252 Shirley	DREW BILLMEYER	164 WESTCHESTER WAY	BIRMINGHAM, MI 48009
Parcel: 1935226013	288 Shirley	ALFRED FISHER IV	288 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935226014	300 Shirley	DAVID SCOTT MENDELSON	2824 ORCHARD PLACE	ORCHARD LAKE, MI 48324
Parcel: 1935226016	377 Arlington	MICHAEL A MINELLI II	377 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935226017	350 Shirley	MITCHELL S WAYNE	483 N GLENGARRY RD	BLOOMFIELD HILLS, MI 48301
Parcel: 1935226018	309 Arlington	GREAT LAKES CUSTOM BUILDER LLC	2525 INDUSTRIAL ROW DR	TROY, MI 48084
Parcel: 1935226019	327 Arlington	GREAT LAKES CUSTOM BUILDER LLC	2525 INDUSTRIAL ROW DR	TROY, MI 48084
Parcel: 1935227004	345 Shirley	RICHARD SILBERGLEIT	345 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227005	361 Shirley	CREAGH E MILFORD	361 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227006	381 Shirley	ERIC J HEAD	381 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227008	421 Arlington	JOSEPH DURHAM	421 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935227009	445 Arlington	DAVID COLMAN	445 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935227010	463 Arlington	463 ARLINGTON ST TRUST	2000 BRUSH ST STE 440	DETROIT, MI 48226
Parcel: 1935227011	487 Arlington	DOUGLAS G DELGROSSO	487 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935227012	503 Shirley	PATRICK AND JUDITH CURRAN	17883 STONEBROOK CT	NORTHVILLE, MI 48168
Parcel: 1935227013	585 Shirley	ANDREA BROWN	585 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227034	680 Linden	JEFFREY O'CONNOR	680 LINDEN RD	BIRMINGHAM, MI 48009
Parcel: 1935227035	619 Shirley	DAVID WEINTRAUB	619 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935227036	663 Shirley	DAVID MITCHELL	1155 PURITAN AVE	BIRMINGHAM, MI 48009
Parcel: 1935227037	200 Linden	THE CHERYL J POLLACK REV LVNG TRUST	200 LINDEN RD	BIRMINGHAM, MI 48009
Parcel: 1935276001	503 Arlington	DAVID HENNING	503 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276002	577 Arlington	DOUGLAS FRIEDEL JR	8646 E 9 MILE RD	WARREN, MI 48089
Parcel: 1935276003	645 Arlington	JAMES MIRRO	737 ARLINGTON ST	BIRMINGHAM, MI 48009
Parcel: 1935276006	779 Arlington	MARC R LAKIN	779 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276007	843 Arlington	BRIAN A DR CONNOLLY	843 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276008	881 Arlington	MICHAEL VAN SYCKLE	881 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276009	945 Arlington	BARBARA S BLOOM REVOC TRUST	3000 TOWN CTR STE 100	SOUTHFIELD, MI 48075
Parcel: 1935276010	975 Arlington	ROBERT STEWART	975 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276011	1057 Arlington	THOMAS SHAFFOU	4744 EDKINS ST	WEST BLOOMFIELD, MI 48323
Parcel: 1935276012	550 Shirley	JOHN A GRAHAM	550 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276013	640 Shirley	JOSEPH D CARTER TRUST	640 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276014	708 Shirley	SAFI HAMID	708 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276015	770 Shirley	MARK J ROGERS	770 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276016	822 Shirley	CLINTON M BALLER REVOC TRUST	822 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276017	880 Shirley	CHRISTOPHER GAUDETTE	880 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276018	914 Shirley	NICOLAS W PERAINO	914 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276022	1000 Shirley	SIMON J LEOPOLD	1000 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935276023	737 Arlington	JAMES A MIRRO	737 ARLINGTON RD	BIRMINGHAM, MI 48009
Parcel: 1935276024	970 Shirley	LINDA DRESNER REVOC TRUST	970 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277001	735 Shirley	DUNCAN ALDRED	735 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277002	789 Shirley	PAUL DELAROSA	789 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277003	811 Shirley	STUART BORMAN	811 SHIRLEY DR	BIRMINGHAM, MI 48009

Parcel: 1935277004	855 Shirley	XAVIER MOSQUET	855 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277005	905 Shirley	TONY J TREASE	905 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277006	955 Shirley	JEFFREY A CHANDLER	955 SHIRLEY DR	BIRMINGHAM, MI 48009
Parcel: 1935277034		CITY OF BIRMINGHAM	PO BOX 3001	BIRMINGHAM, MI 48012
Parcel: 1935277048		CITY OF BIRMINGHAM	PO BOX 3001	BIRMINGHAM, MI 48012
Parcel: 1935277049		CITY OF BIRMINGHAM	PO BOX 3001	BIRMINGHAM, MI 48012

BIRMINGHAM
A WALKABLE CITY

June 3, 2024

TO: parcel #
NAME
ADDRESS
CITY/STATE/ZIP

Re: Arlington, Shirley, and Brandon Street Project, Contract #6-24(W)
Paving Special Assessment District (SAD)

To whom it may concern,

The City of Birmingham Arlington, Shirley, and Brandon Street Project will start in the Summer of 2024. The project includes the replacement of the water main, sewer improvements, and the streets will be converted to an improved road.

As part of the project, the City will reconstruct the unimproved streets to improved roads consisting of new concrete curb and gutter, an engineered aggregate base, and asphalt pavement with no sidewalks per the City Commission resolution from the February 5, 2024 meeting. A Paving Special Assessment District (SAD) is created when the streets are converted to improved roads. After installation, the City maintains the roads at no cost to the homeowner. Enclosed is a map of properties included in the Paving SAD.

With this letter, you are receiving notifications for two public hearings for the Paving Special Assessment District (SAD):

- The Public Hearing of the Necessity to form a Special Assessment District for the improved road installation meeting the requirements as part of the Arlington, Shirley and Brandon Street Project is **Monday, June 24, 2024**, at the regularly scheduled City Commission meeting at 7:30 p.m. in City Hall at 151 Martin St.

- If necessity is determined at the June 24 hearing, a Public Hearing of Confirmation to confirm the Special Assessment District will follow on **Monday, July 8, 2024**, at the regularly scheduled City Commission meeting at 7:30 p.m. in City Hall at 151 Martin St.

Consistent with previous projects of this nature, it has been the City's policy to assess the following:

- 85% of the front-foot costs for improvement are assessed on all properties fronting on the improvement. City pays 15% of costs
- For single family houses, if the longer side of a corner property faces the street being constructed, the City will pay two-thirds (2/3) of the cost of the assessment for that property. The property owner will be charged the remaining third (1/3). If the short side of a corner property faces the street to be constructed, the owner pays 100% of the assessment.
- Properties that have rear yard driveway access over City property to the road that is being improved are assessed 25% of the long-foot costs for the rear yard frontage. The City pays the remaining 75%.

After the work is completed, an invoice will be generated and sent to the property owner of record for the public improvements. Payment in full will be expected within 30 days of receipt. If you are not in a position to pay off the charge in one payment, it can be broken into as many as 10 annual payments. An annual interest charge on the remaining balance, currently about 9.50 percent, will apply. Official estimates of road installation will be provided at the Hearing of Necessity.

If you have any questions or concerns, please contact the Engineering Office at (248) 530-1850. You will have the opportunity to ask questions and speak directly to the City Commission at the Public Hearing of Necessity and at the Confirmation of the Roll.

Sincerely,

Melissa A. Coatta, P.E.
City Engineer

151 Martin Street • P.O. Box 3001 • Birmingham, MI 48012-3001
(248) 530-1800 • Fax (248) 530-1080 • www.bhamgov.org

Funds Report

Available:	$338.36	PBP Account Number:	35884980
Used:	$41,396.64	Indicia Number:	0008029208
Total Pieces:	56653	Meter Number:	8029208
Control Sum:	$41,735.00	Meter Name:	
Resettable Piece Count:	78	Printed:	JUN 04 2024 2:25 PM
Piece Count Value:	$49.92		

8B

GREEN THUMBS

Keeping it local: Some tips for a tidy native-plant garden

By Jessica Damiano
The Associated Press

For decades, native plants were relegated to the "weed" section of many American gardeners' minds. Most nurseries didn't stock them. But that's slowly changing.

Native plants provide food and shelter for bees, butterflies, birds and other beneficial critters. They effortlessly grow healthier and stronger than exotic species, seldom need fertilizers or other amendments, and generally require little or no supplemental water once established. They've grown for hundreds or thousands of years just fine without us, evolving along with native insects, which recognize them as food.

So, why don't more people plant them?

I'll tell you one reason why: Unless carefully selected, the plants in a native garden can get messy, a look that some people embrace but others do not. It's one thing if you're growing a meadow, but you might want things neater in a small urban garden or in a suburban community with a homeowners association.

But that's on the gardener, not the plants, because it's absolutely possible to have a structured and beautiful native garden.

'Pick the right plant for the right place'

This old mantra emphasizes the importance of considering sunlight exposure, water accessibility and soil pH levels when selecting plants. Plant habit — its shape and size — also should be front of mind.

Familiarize yourself with the mature sizes of your fledgling plants when deciding where to place them. Don't, for instance, plant tall natives along a walkway, where they may grow to block access or flop over by mid-season, especially after rainfall.

Place taller plants and those more likely to lean at the back of a border, with shorter, tighter ones in front to help hold them in place and keep edges tidier. For beds that can be viewed from all sides, place the taller plants in the center.

Avoid planting one-offs. Planting clusters of the same species or color will make the garden appear cohesive.

Controlling spread

Because native plants aren't sterile, as many hybridized and exotic species have been bred to be, some spread readily by dropping seeds after they bloom. Others spread via underground runners, sending up new plants as they travel across the bed.

This does not mean they are "invasive," a term used to describe aggressive exotic plants that spread to outcompete native species. In fact, it's a desirable trait when aiming to fill a meadow with native plants, just perhaps less so when attempting to appease your HOA.

The solution lies in research. Look for plants with "clumping" or "mounding" habits that will stay put, and avoid those described as "runners" or "fast spreaders."

Asclepias tuberosa (butterfly weed), for instance, will not move or migrate. Its cousin, Asclepias syriaca (common milkweed), can be aggressive, weedy and difficult to remove. Both plants are important food sources for monarch butterfly caterpillars and considered beneficial to the ecosystem. But one might be better for your garden than the other.

If plants reseed where you don't want them, remove them and plant them elsewhere (free plants!) or trade them with a friend.

Dig up and divide plants every three years to prevent crowding. And if your natives threaten to become unruly, mow them down before they set seeds at the end of the season.

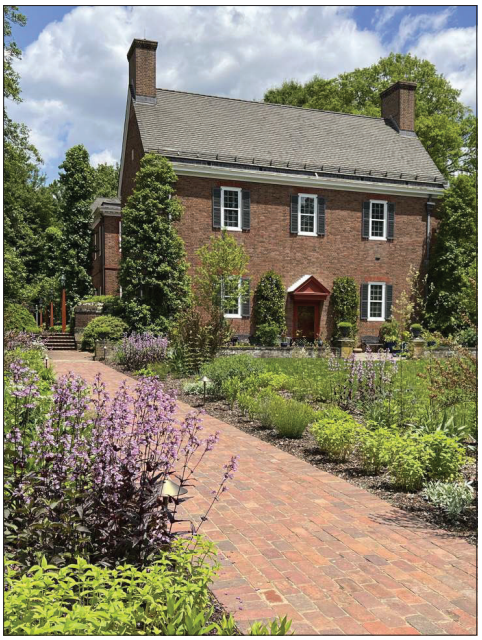
Don't simply scatter wildflower seeds and expect them not to grow wild. They will, which makes them perfect for a dedicated wildflower bed or a hilly slope but perhaps less than perfect elsewhere.

The carpet around them

Consider native grasses, sedges, groundcovers and clover as substitutes for common turf grasses, which rely on ground-polluting amendments, pollinator-killing pesticides and regular mowing while contributing little to the ecosystem.

If necessary, keep just a small lawn border to define the space (and appease your neighbors), and keep beds and borders neatly edged.

Include native shrubs in your design to retain structure year-round. Statues, arbors, benches and birdhouses also add visual interest.



PHOTOS BY MELISSA STARKEY — MT. CUBA CENTER VIA AP

This undated photo provided by Mt. Cuba Center shows the Hockessin, Del., botanical garden's formal South Garden, planted entirely with native plants and cultivars of native plants.

MICHIGAN INDEPENDENT CITIZENS REDISTRICTING COMMISSION

Voting districts drawn a new way—by the people, for the people

The mission of the Michigan Independent Citizens Redistricting Commission (MICRC) is to make democracy in Michigan work better by drawing new boundaries for election districts.

Redistricting means drawing fair maps that decide which areas and groups are represented by the people we elect to office.

Drawing fair district maps directly affects who is working for us and what happens in our communities.

In drawing new lines, the Commission uses specific criteria including population, geography, diversity, partisan fairness, and community cohesion.

Telling Commissioners what you think about the maps is how your interests get represented.

Voters have at least three chances to show up and speak up about which Senate district map works best for their community of interest.

Find meeting schedules and submit comments at www.Michigan.gov/MICRC or call 1-866-627-3247 (866-MAP-FAIR) for information.

Tuesday, June 11
10:00 a.m.-12:30 p.m. 1:30-3:00 p.m., and 4:00-7:00 p.m.
Detroit Cass Technical High School
2501 2nd Ave.
Detroit, MI 48201

Wednesday, June 12
10:00 a.m.-12:30 p.m. 1:30-3:00 p.m., and 4:00-7:00 p.m.
Martin Luther King High School
3200 E. Lafayette St.
Detroit, MI 48207

Thursday, June 13
10:00 a.m.-12:30 p.m. 1:30-3:00 p.m., and 4:00-7:00 p.m.
Renaissance High School
6565 W. Outer Dr.
Detroit, MI 48235

NOTICE OF PUBLIC HEARING

BIRMINGHAM CITY COMMISSION

PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL

Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, June 24, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Project Location:	Arlington, Shirley, Brandon: 1935202033 218 Arlington 1935227006 381 Shirley 1935202034 222 Arlington 1935227008 421 Arlington 1935202035 280 Arlington 1935227009 445 Arlington 1935202036 316 Arlington 1935227010 463 Arlington 1935202039 414 Arlington 1935227011 487 Arlington 1935202040 432 Arlington 1935227012 503 Shirley 1935202041 444 Arlington 1935227013 585 Shirley 1935202042 500 Arlington 1935227034 680 Linden 1935202043 550 Arlington 1935227035 619 Shirley 1935202044 600 Arlington 1935227036 663 Shirley 1935202045 700 Arlington 1935227037 200 Linden 1935202046 730 Arlington 1935276001 503 Arlington 1935202047 776 Arlington 1935276002 577 Arlington 1935202048 800 Arlington 1935276003 645 Arlington 1935202049 860 Arlington 1935276006 779 Arlington 1935202050 898 Arlington 1935276007 843 Arlington 1935202051 924 Arlington 1935276008 881 Arlington 1935202052 968 Arlington 1935276009 945 Arlington 1935202053 992 Arlington 1935276010 975 Arlington 1935202055 1420 W. Lincoln 1935276011 1057 Arlington 1935202068 400 Arlington 1935276012 550 Shirley 1935202069 1589 W Maple 1935276013 640 Shirley 1935226001 117 Arlington 1935276014 708 Shirley 1935226002 175 Arlington 1935276015 770 Shirley 1935226003 243 Arlington 1935276016 822 Shirley 1935226004 269 Arlington 1935276017 880 Shirley 1935226006 345 Arlington 1935276018 914 Shirley 1935226009 100 Shirley 1935276022 1000 Shirley 1935226010 188 Shirley 1935276023 737 Arlington 1935226011 226 Shirley 1935276024 970 Shirley 1935226012 252 Shirley 1935277001 735 Shirley 1935226013 288 Shirley 1935277002 789 Shirley 1935226014 300 Shirley 1935277003 811 Shirley 1935226016 377 Arlington 1935277004 855 Shirley 1935226017 350 Shirley 1935277005 905 Shirley 1935226018 309 Arlington 1935277006 955 Shirley 1935227019 327 Arlington 1935277034 City Owned Property 1935227004 345 Shirley 1935277048 Linden Park 1935227005 361 Shirley 1935277049 City Owned Property
Nature of Improvement:	The City will reconstruct the unimproved streets to improved roads consisting of new concrete curb and gutter, an engineered aggregate base, and asphalt pavement with no sidewalks per the City Commission resolution from the February 5, 2024 meeting.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248) 530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/9/2024 & 6/16/2024
Approved minutes may be reviewed at:	City Clerk's Office or www.bhamgov.org/commissionagendas

Should you have any statement regarding the above, you are invited to attend the meeting in person or virtually through ZOOM: **https://zoom.us/j/655079760 Meeting ID: 655 079 760**

You or your agent may appear at the hearings to express your views; however, if you fail to protest either in person or by letter received on or before the date of the hearing, you cannot appeal the amount of the special assessment to the Michigan Tax Tribunal. Mail any correspondence to: City Clerk, P.O. Box 3001, Birmingham, MI 48012.
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All special assessments, including installment payments, shall, from the date of the confirmation thereof, constitute a lien on the respective lots or parcels assessed, and until paid shall be charged against the respective owners of the lots or parcels assessed.

Persons with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk's Office at 248.530.1880 (voice) or 248.644.3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.

NOTICE OF PUBLIC HEARING

BIRMINGHAM CITY COMMISSION

PUBLIC HEARING OF NECESSITY & PUBLIC HEARING FOR CONFIRMATION OF THE ROLL

Meeting Date, Time, Location:	HEARING OF NECESSITY FOR SPECIAL ASSESSMENT DISTRICT Monday, June 24, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
Meeting Date, Time, Location:	HEARING FOR CONFIRMATION OF THE ROLL Monday, July 8, 2024, 7:30 PM Municipal Building, 151 Martin, Birmingham, MI 48009
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Nature of Improvement:	The City intends to replace private sewer and water laterals meeting certain "useful life" criteria in the right-of-way in an effort to protect the public investments being made with this project. This will include the replacement of all sewer laterals that are 50 years of age or older, less than 6-inch diameter, or an unsuitable material. Water services less than the City minimum size of 1-inch diameter, are 60 years of age or older, or an unsuitable material will also be replaced.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248)530-1839
Notice Requirements:	Newspaper Notice and First Class Mail to affected property owners 10 days prior. Publish 6/9/2024 & 6/16/2024
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GARDENING

PERFECT SHADE OF ... GRAY?

How to find that tricky balance between lawn and not-lawn

By Jessica Damiano
The Associated Press

CAROLYN LESSARD — THE ASSOCIATED PRESS

A lawn with a mix of grass and other groundcovers appears at a property in Waitsfield, Vt. If your lawn is large, consider replacing part of it with flower beds and borders, or a groundcover like clover.

In lawn care, as in politics, an extreme, black-or-white approach can be impractical and turn off the masses. But in the garden, at least, gray can be the perfect shade of green.

Take, for instance, the No Mow May movement. Is it necessary to allow your entire property to turn into a weedy meadow for a whole month? No. But allowing nature to do its thing in a corner of the yard can help the birds and pollinators we depend on.

Should we rip out all our non-native plants and replace them with natives? That would be ideal, but if it isn't practical, removing invasives and incorporating native plants among your well-behaved exotics will help wildlife and improve sustainability in your garden.

And that brings us to the much-maligned lawn. Fertilizers, pesticides, herbicides and the gas-powered equipment used to maintain common turf grasses contribute to air and groundwater pollution, while the lawn itself provides little ecological value in terms of food and shelter for pollinators and other beneficial insects.

In 2005, NASA satellites found that more than 40 million acres of the continental U.S. are covered in lawn. That's three times the amount of land used for corn crops. The estimate is still used today.

"An individual, quarter-acre lawn isn't a big ecological influence, but adding up all those quarter-acres for everyone in the country ... the ecological impact could be pretty big," NASA researcher Cristina Milesi said at the time.

Yet it isn't likely that everyone reading this will give up their entire lawn. So let's talk about sustainable ways to care for it.

Mindful lawn care

If your lawn is large, consider replacing part of it with flower beds and borders, or a groundcover like clover. Then, embark on a thoughtful maintenance program.

Don't fight your climate. Research turf grass types and select ones that thrive best in your region. Aerate the soil and spread seeds in two directions. Water deeply just once, then sprinkle daily to keep seeds moist. Don't let them dry out even once, or you may have to start over. Sow more seeds every week and keep them lightly moist until the grass fills in densely, which will choke out weeds naturally. When it reaches 3 inches high, you can begin mowing.

For small lawns, use a push mower instead of an exhaust-spewing, gas-powered model. For larger areas, consider a rechargeable electric mower. You'll reap financial and ecological benefits. Regardless of mower type, keep blades sharpened for clean cuts that heal before insects and diseases move in to take advantage of your convalescing grass.

Most turf varieties thrive best when kept at about 3 inches tall. Learn what's recommended for your species and set your mower height accordingly. Never remove more than one-third of grass height in a single session.

The trifecta of lawn woes -- weeds, insect infestations and diseases -- moves in when lawns aren't well cared for, so it's important to improve soil and grass health from the ground up.

Test your soil's pH. Most turf grasses thrive best in levels between 6.3 and 6.8. If your soil tests below that range, apply lime in the amounts recommended on the package. If the pH is higher than the range, use sulfur to lower it. Never apply either of these amendments (or allow your landscaper to) as a matter of routine. Always test first to determine if there's a need.

Water. Fertilizer. Pesticides.

A deep root system will sustain the lawn during hot, dry spells, allowing it to find underground water sources from a larger area. Encourage it by providing less frequent but longer watering sessions. Short, daily (or twice daily) sessions will moisten only the soil surface, providing no reason for roots to travel downward in search of moisture. Most grasses need about 1 ½ inches of water per week, including rainfall. Adjust irrigation sessions accordingly.

Understand that cool-season grasses like Kentucky bluegrass, rye and fescues are supposed to go dormant during summer. Warm-season species like Bermuda St. Augustine and Zoysia grasses sleep over the winter. It's normal for them to turn brown during their off-seasons. Let them.

Personally, I don't fertilize my grass or use synthetic pesticides in my garden. I maintain a small lawn to define my perennial beds and allow common turf grass weeds to run rampant. Once mowed, it's all green to me.

If that's too drastic for you, replace your lawn fertilizer with mulched grass clippings. As they decompose, they'll provide a free, natural source of nitrogen that, unlike synthetic nitrogen fertilizers, won't risk contaminating groundwater or running off to fertilize plants at the water table and upsetting the natural plant and wildlife hierarchy.

If you don't have a mulching mower, remove the bag and mow over the expelled clippings to chop them, then spread them over the lawn instead of sending them to a landfill.

If you still want to use fertilizer, opt for a slow-release product and follow the dosing instructions on the package. Lawns cannot utilize more than the recommended amount, so any excess applied may result in leaching and salt buildup that will alter soil chemistry, adversely affect grass and increase thatch buildup. It's also a waste of money.

Using insecticides to kill pests also kills beneficial insects that help keep your lawn healthy. Earthworms, ground beetles, ladybugs and praying mantids, among others, eat harmful pests, aerate the soil and aid in the decomposition that nourishes soil. Your lawn needs them.

If you have a particularly stubborn weed problem and find you absolutely must use an herbicide, carefully target only the offending weed and do so on a windless day to avoid overspray.

Finally, and perhaps most importantly, stop chasing perfection. It doesn't exist.

NOTICE OF PUBLIC HEARING

BIRMINGHAM CITY COMMISSION

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1935202033	218 Arlington	1935227006	381 Shirley
1935202034	222 Arlington	1935227008	421 Arlington
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1935202036	316 Arlington	1935227010	463 Arlington
1935202039	414 Arlington	1935227011	487 Arlington
1935202040	432 Arlington	1935227012	503 Shirley
1935202041	444 Arlington	1935227013	585 Shirley
1935202042	500 Arlington	1935227034	680 Linden
1935202043	550 Arlington	1935227035	619 Shirley
1935202044	600 Arlington	1935227036	663 Shirley
1935202045	700 Arlington	1935227037	200 Linden
1935202046	730 Arlington	1935276001	503 Arlington
1935202047	776 Arlington	1935276002	577 Arlington
1935202048	800 Arlington	1935276003	645 Arlington
1935202049	860 Arlington	1935276006	779 Arlington
1935202050	898 Arlington	1935276007	843 Arlington
1935202051	924 Arlington	1935276008	881 Arlington
1935202052	968 Arlington	1935276009	945 Arlington
1935202053	992 Arlington	1935276010	975 Arlington
1935202055	1420 W. Lincoln	1935276011	1057 Arlington
1935202068	400 Arlington	1935276012	550 Shirley
1935202069	1589 W Maple	1935276013	640 Shirley
1935226001	117 Arlington	1935276014	708 Shirley
1935226002	175 Arlington	1935276015	770 Shirley
1935226003	243 Arlington	1935276016	822 Shirley
1935226004	269 Arlington	1935276017	880 Shirley
1935226006	345 Arlington	1935276018	914 Shirley
1935226009	100 Shirley	1935276022	1000 Shirley
1935226010	188 Shirley	1935276023	737 Arlington
1935226011	226 Shirley	1935276024	970 Shirley
1935226012	252 Shirley	1935277001	735 Shirley
1935226013	288 Shirley	1935277002	789 Shirley
1935226014	300 Shirley	1935277003	811 Shirley
1935226016	377 Arlington	1935277004	855 Shirley
1935226017	350 Shirley	1935277005	905 Shirley
1935226018	309 Arlington	1935277006	955 Shirley
1935226019	327 Arlington	1935277034	City Owned Property
1935227004	345 Shirley	1935277048	Linden Park
1935227005	361 Shirley	1935277049	City Owned Property

Nature of Improvement:	The City will reconstruct the unimproved streets to improved roads consisting of new concrete curb and gutter, an engineered aggregate base, and asphalt pavement with no sidewalks per the City Commission resolution from the February 5, 2024 meeting.
City Staff Contact:	Melissa Coatta, City Engineer mcoatta@bhamgov.org, (248) 530-1839
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BIRMINGHAM
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Arlington, Shirley, and Brandon Project

Hearing of Necessity for Paving Special Assessment District (SAD)

Engineering Department

Date: June 24, 2024

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Arlington, Shirley, and Brandon Project Paving Special Assessment District

➢Overview

- Limits of Arlington Street and Shirley Road are W. Lincoln Avenue to W. Maple Road, and Brandon Street limits are is Shirley Road to Linden Road
- Project includes:
  - New Water Main: Arlington Street and Shirley Road
  - Sewer Improvements: Arlington Street and Shirley Road
  - Installation of aggregate base, asphalt pavement, and new concrete curb and gutter
- Special Assessment District (SAD) for Paving:
  - Convert from an unimproved road to an improved road

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Arlington, Shirley, and Brandon Project Paving Special Assessment District

➢General Information: Road

BIRMINGHAM

Understanding Improved and Unimproved Roads

Improved Road

Improved Road – An improved road is a road with curb and gutters which has a surface of concrete or asphalt.

Benefits:

- It is professionally engineered and constructed as a durable roadway.
- Provides for adequate drainage from the roadway.
- Once improved, an improved road is maintained by the City for any future road repairs.
- Improved streets with curbs are provided routine street sweeping and leaf pick-up each Fall, which allows residents to rake their leaves into the street at the curb.
- The average life span is 20 to 30 years.

Disadvantages:

- Initial one time higher cost for installation.

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Unimproved Road

Unimproved Road – An unimproved road is a gravel road with or without curbs that has been treated with cape seal to provide a relatively smooth and dust free driving surface.

Benefits:

- Enhances rural neighborhood characteristics.

Disadvantages:

- The roadway is not professionally engineered and does not have a durable foundation.
- Unimproved roads without curbs do not provide adequate drainage from the roadway.
- Unimproved roads without curbs do not receive street sweeping and must bag their leaves.
- The average life span is 7 to 10 years and the need for repairs is more frequent.
- The cost for road repair and replacement is the responsibility of the homeowners on the street.

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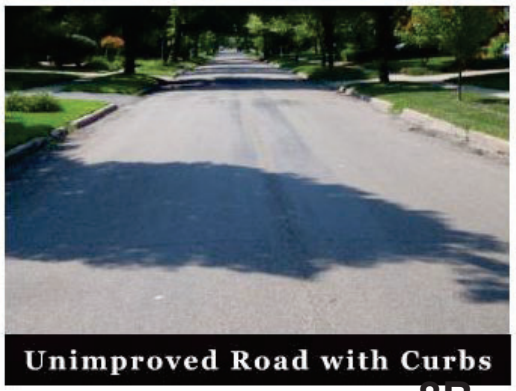
Arlington, Shirley, and Brandon Project Paving Special Assessment District

- General Information: Road

Improved Road

Unimproved Road


Unimproved Road with Curbs

Unimproved Road with Gutter

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Arlington, Shirley, and Brandon Project Paving Special Assessment District

➢General Information: Road

Unimproved Roads

- The City's unimproved roads are gravel roads, with or without curbs and gutters, that have been maintained with a chip or cape seal treatment to provide a relatively smooth driving surface.
  - Cape sealed roads appear similar to asphalt.
  - Cape seal is a "crust topping" on gravel roads that reduce dusts, and inhibits moisture penetration for rutting.
  - Some of the City's unimproved roads have catch basins and storm sewers and some do not.
- History:
  - In the 1930's when many subdivisions were developed, local streets were built as gravel roads.
  - Streets were constructed with engineered pavement and drainage only when majority of the residents petitioned the City for the improvement, and the costs were paid through a Special Assessment District (SAD) on adjacent properties.
  - Neighborhoods that opted to retain gravel roads initially coordinated and assessed for maintenance through their respective neighborhood association. Later, the City begin initiation, coordination, and assessing the maintenance on behalf of the property owners.

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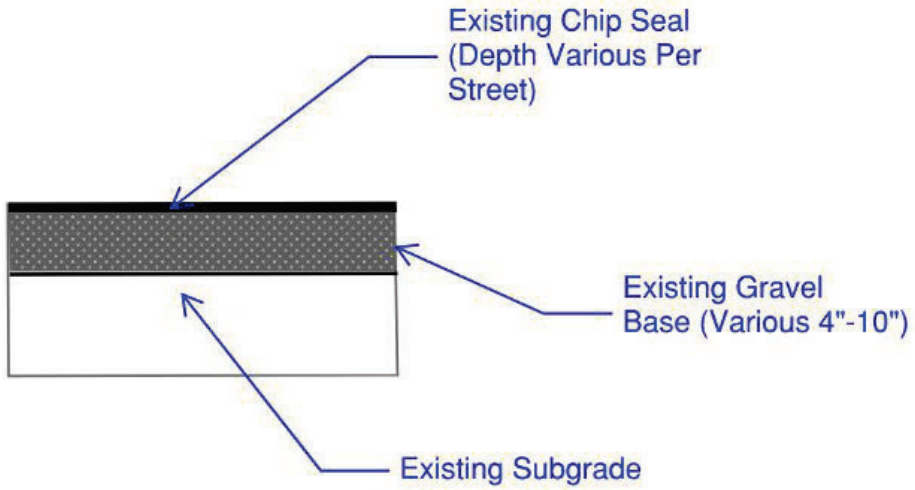
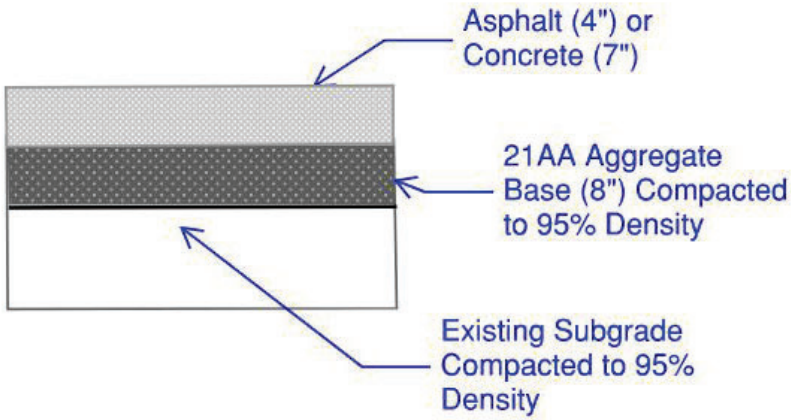
Arlington, Shirley, and Brandon Project Paving Special Assessment District

- General Information: Road



Unimproved Road Cross Section



Improved Road Cross Section

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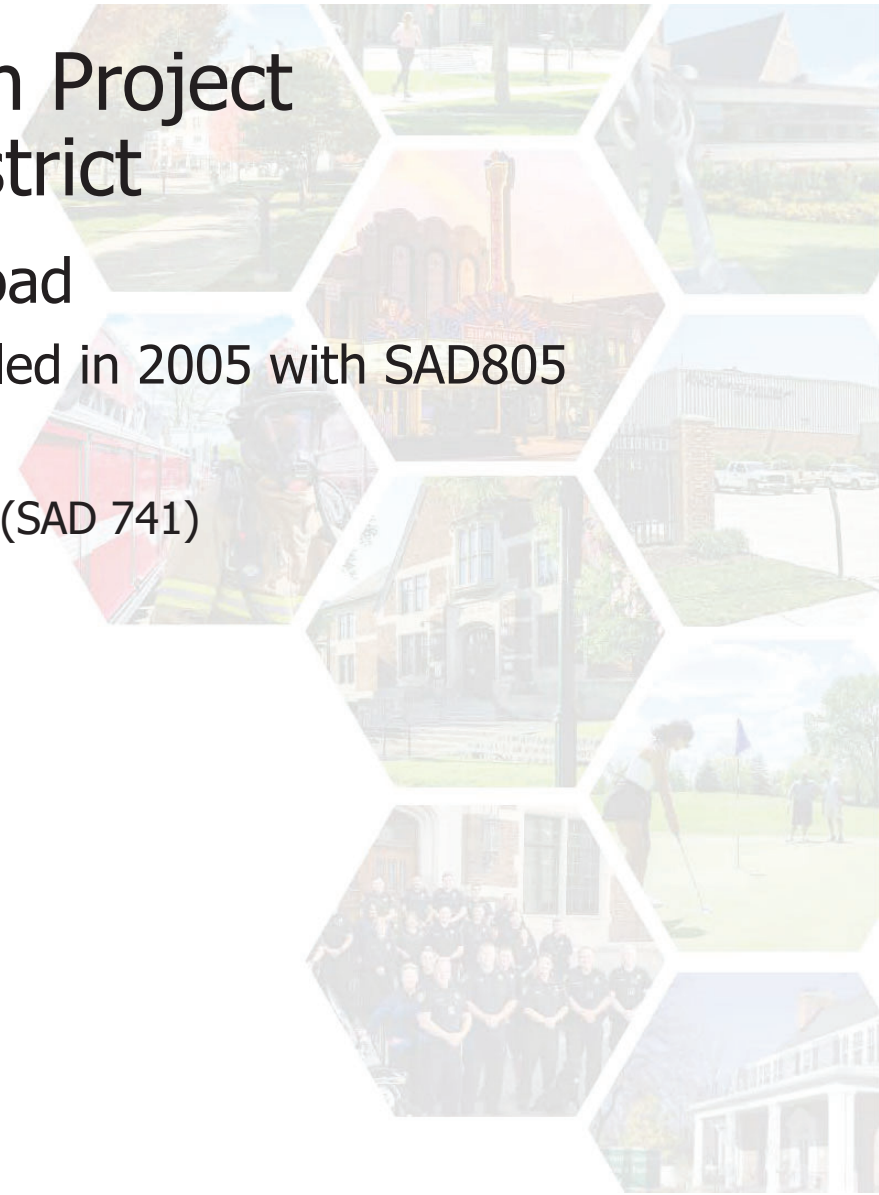
Arlington, Shirley, and Brandon Project Paving Special Assessment District

- General Construction Information: Road
  - Shirley and Arlington were last cape sealed in 2005 with SAD805
  - Previous SAD's:
    - 1991 Street Maintenance Capeseal Program (SAD 741)
    - 1986 Seal Coat (SAD 719)
    - 1982 Seal Coat (SAD 669)
    - 1976 Road Oil (SAD 663)



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Arlington, Shirley, and Brandon Project Paving Special Assessment District

➢Policy

- The City policy has been to defray the costs of converting a road from an unimproved road to an improved road by creating a special assessment district (SAD) consisting of the properties that are benefitting from this

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Arlington, Shirley, and Brandon Project Paving Special Assessment District

- Paving Costs:
  - 85% of the front-foot costs are assessed on all properties fronting on the improvement, and the City pays 15% of the costs
  - For single-family houses, if the longer side of a corner property faces the street being constructed, the City will pay two-thirds (2/3) of the cost of the assessment for that property. The property owner will be charged the remaining third (1/3). If the short side of a corner property faces the street to be constructed, the owner pays 100% of the assessment.
- Approach Costs:
  - 100% of costs paid by adjacent property owner

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Arlington, Shirley, and Brandon Project Paving Special Assessment District

- SAD:
  - Received Bids for Project on May 23, 2024
  - Paving Costs: $156.84 per front footage
  - Approach Costs:
    - Remove and Salvage Brick Pavers: $4.00 per square foot
    - Remove Concrete Approach and Install Concrete Approach: $105.00 per square yard
    - Remove Asphalt Approach and Install Concrete Approach: $100.00 per square yard

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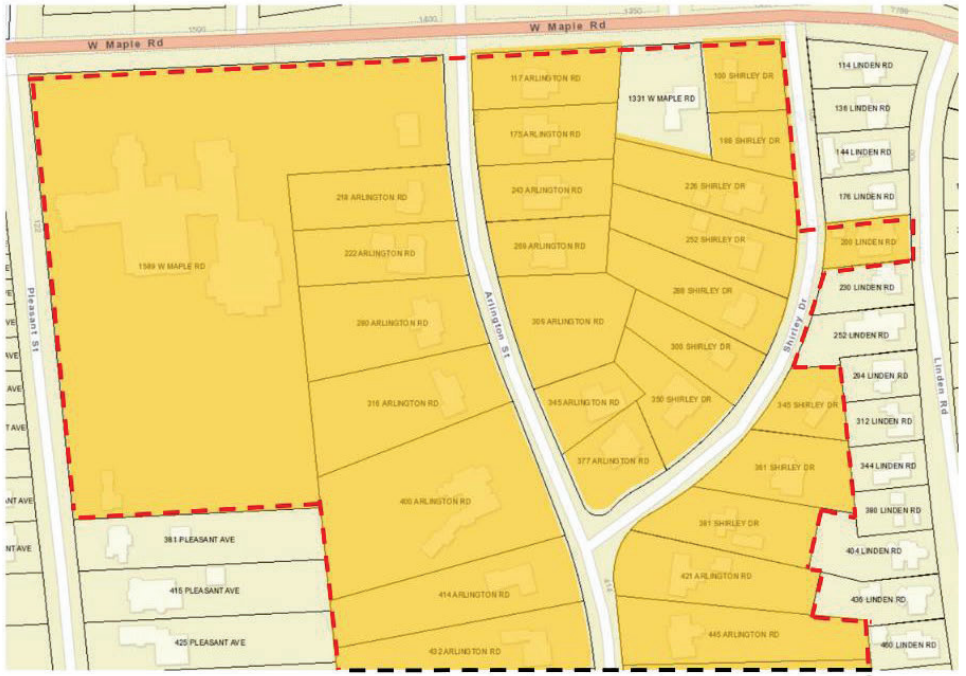
Arlington, Shirley, and Brandon Project Paving Special Assessment District



Limits of Projects

Properties Within Paving SAD

Paving SAD Project Limits

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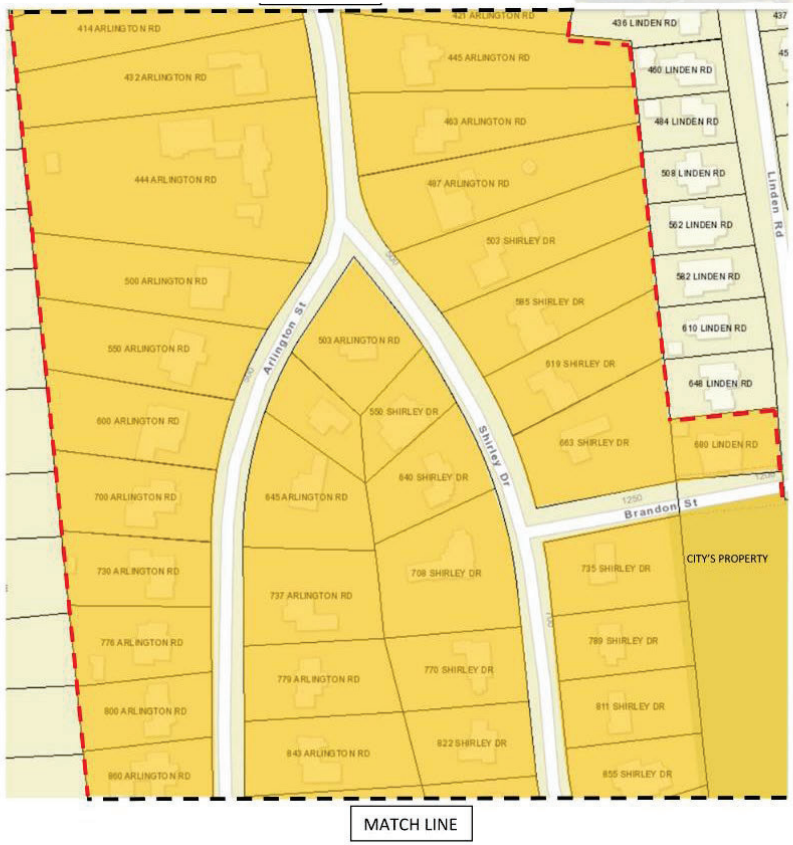
Arlington, Shirley, and Brandon Project Paving Special Assessment District



Limits of Projects

Properties Within Paving SAD

Paving SAD Project Limits

8B

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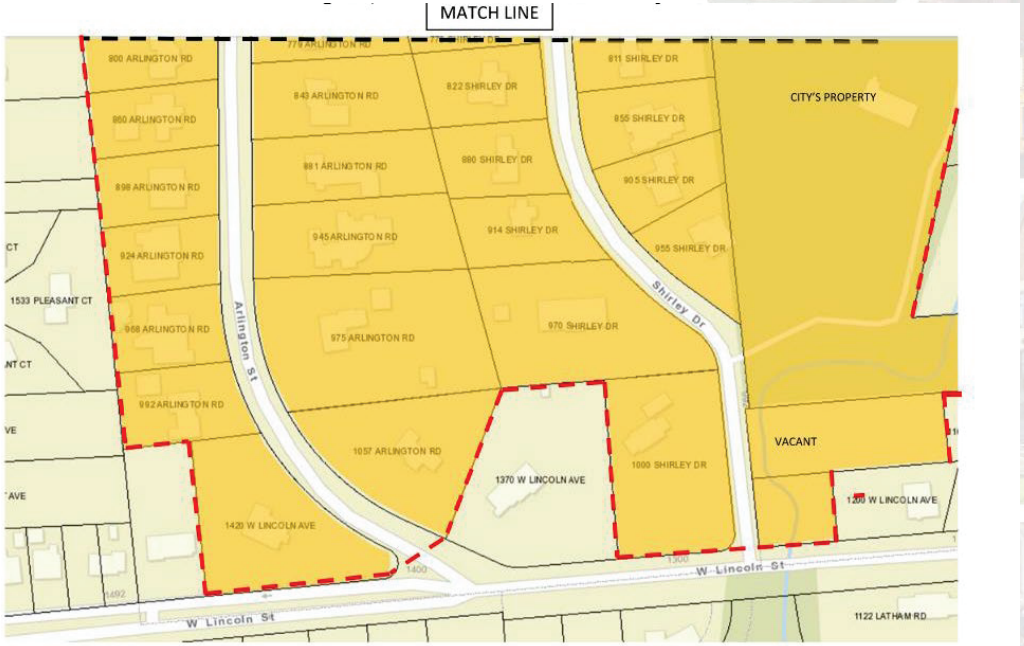
Arlington, Shirley, and Brandon Project Paving Special Assessment District



Limits of Projects

Properties Within Paving SAD

Paving SAD Project Limits

8B

8E

Arlington, Shirley, and Brandon Project Paving Special Assessment District

➢PROPERTIES LOCATED IN PAVING SAD:

Sidwell Number	Street Address
19-35-202-033	218 Arlington
19-35-202-034	222 Arlington
19-35-202-035	280 Arlington
19-35-202-036	316 Arlington
19-35-202-039	414 Arlington
19-35-202-040	432 Arlington
19-35-202-041	444 Arlington
19-35-202-042	500 Arlington
19-35-202-043	550 Arlington
19-35-202-044	600 Arlington
19-35-202-045	700 Arlington
19-35-202-046	730 Arlington
19-35-202-047	776 Arlington
19-35-202-048	800 Arlington
19-35-202-049	860 Arlington
19-35-202-050	898 Arlington
19-35-202-051	924 Arlington
19-35-202-052	968 Arlington
19-35-202-053	992 Arlington

Sidwell Number	Street Address
19-35-202-055	1420 W. Lincoln
19-35-202-068	400 Arlington
19-35-202-069	1589 W. Maple
19-35-226-001	117 Arlington
19-35-226-002	175 Arlington
19-35-226-003	243 Arlington
19-35-226-004	269 Arlington
19-35-226-006	345 Arlington
19-35-226-009	100 Shirley
19-35-226-010	188 Shirley
19-35-226-011	226 Shirley
19-35-226-012	252 Shirley
19-35-226-013	288 Shirley
19-35-226-014	300 Shirley
19-35-226-016	377 Arlington
19-35-226-017	350 Shirley
19-35-226-018	309 Arlington
19-35-226-019	327 Arlington
19-35-227-004	345 Shirley

Sidwell Number	Street Address
19-35-227-005	361 Shirley
19-35-227-006	381 Shirley
19-35-227-008	421 Arlington
19-35-227-009	445 Arlington
19-35-227-010	463 Arlington
19-35-227-011	487 Arlington
19-35-227-012	503 Shirley
19-35-227-013	585 Shirley
19-35-227-034	680 Linden
19-35-227-035	619 Shirley
19-35-227-036	663 Shirley
19-35-227-037	200 Linden
19-35-276-001	503 Arlington
19-35-276-002	577 Arlington
19-35-276-003	645 Arlington
19-35-276-006	779 Arlington
19-35-276-007	843 Arlington
19-35-276-008	881 Arlington
19-35-276-009	945 Arlington

Sidwell Number	Street Address
19-35-276-010	975 Arlington
19-35-276-011	1057 Arlington
19-35-276-012	550 Shirley
19-35-276-013	640 Shirley
19-35-276-014	708 Shirley
19-35-276-015	770 Shirley
19-35-276-016	822 Shirley
19-35-276-017	880 Shirley
19-35-276-018	914 Shirley
19-35-276-023	737 Arlington
19-35-276-024	970 Shirley
19-35-277-001	735 Shirley
19-35-277-002	789 Shirley
19-35-277-003	811 Shirley
19-35-277-004	855 Shirley
19-35-277-005	905 Shirley
19-35-277-006	955 Shirley

BIRMINGHAM
A WALKABLE CITY

Paving SAD
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Arlington, Shirley, and Brandon Project Paving Special Assessment District

➢Summary

- The Engineering Department recommends the City Commission declare a necessity and approve the SAD for Arlington, Shirley, and Brandon Project for paving
- Should the Commission approve the SAD, a public hearing for confirmation of the roll will be held on July 8, 2024

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MEMORANDUM

Engineering Department

DATE: June 28, 2024

TO: Jana L. Ecker, City Manager

FROM: Melissa A. Coatta, City Engineer

SUBJECT: Arlington, Shirley, and Brandon Project
Contract #6-24(W) Contract Award

INTRODUCTION:
The City received and opened bids for the Arlington, Shirley, and Brandon Project Contract #6-24 (W). Two (2) bids were received for consideration, and the Engineering Department recommends awarding this contract to DiPonio Contracting.

BACKGROUND:
Since 2019, Arlington Street and Shirley Road have been planned for water main improvements in the City's Capital Improvements Plan. The infrastructure improvement proposed has been discussed in detail at the:

- January 8, 2024, City Commission Meeting (Agenda – Video)
- January 22, 2024, City Commission Meeting (Agenda – Video)
- January 30, 2024 Special City Commission Meeting – Shirley & Arlington (Agenda – Video)
- February 5, 2024, City Commission Meeting (Agenda – Video)

At the February 5, 2024, City Commission Meeting, a resolution was approved for Arlington Street from Lincoln Street to Maple Road, Shirley Road from Lincoln Street to Maple Road, to receive water main replacement and sewer improvements, and to be converted to improved roads by paving the roads with new concrete curb and gutter, an engineered aggregate base, and asphalt paving, with no sidewalk. Also at this meeting, a resolution was passed to add Brandon Street to the Arlington Street and Shirley Street project and to proceed with the final design to include construction of the street within the project area to meet the City standards for an improved street with a five-foot-wide sidewalk on at least one side of the road, accommodating parking and the entrance to the park, as well as a gate to block access to the pump house road/drive.

A paving special assessment district (SAD) along Shirley, Arlington, and Brandon was presented to the City Commission on June 24, 2024, and the confirmation of the roll will be presented on July 8, 2024.

The following are proposed for underground improvements:

Water main: An 8" diameter water main will replace the 6" existing water main on Arlington and Shirley. There are no existing or proposed water mains on Brandon Street.

Sewer: There is an existing 10" – 24" diameter sewer on Shirley Road that drains towards Lincoln that was installed in 1927, and an 18"-24" relief sewer installed in 1968. A 12" diameter storm sewer and a 12"-18" diameter combined sewer main will replace the existing sewer on Shirley. The sewer on Arlington Street either drains south to a 10"-15" diameter sewer that drains towards Lincoln, or drains north to a 10"-12" diameter sewer that drains to Maple Road. A relief sewer, 15"-24" diameter, was installed in 1968. A 12"-24" diameter new sewer is proposed on Arlington along with point repairs on the existing sewer.

A water and sewer lateral special assessment district (SAD) along Shirley and Arlington was presented to the City Commission on June 24, 2024, and the confirmation of roll will be conducted on July 8, 2024.

The Engineering Department opened bids on May 23, 2024, and two (2) bids were received as listed in the attached summary. The Engineering Department recommends awarding this contract to DiPonio Contracting, LLC., who has completed previous construction in the City and understands expectations.

As is required for all of the City's construction projects, DiPonio Contracting, LLC has submitted a 5% bid security with their bid which will be forfeited if they do not provide the signed contracts, bond, and insurance required by the contract following the award by the City Commission.

LEGAL REVIEW:
The City's standard RFP and contract language was used for bidding this project which the City Attorney has reviewed and approved. No legal issues exist nor are there any objections by the City Attorney.

FISCAL IMPACT:
This project was budgeted for in the 2023/2024 fiscal year, and a budget amendment is required for the 2024/2025 fiscal year. The total construction cost for the project is estimated to be $6,156,496.39 which includes DiPonio Contracting LLC's bid amount of $5,596,814.90 and a 10% construction contingency. The project award will be funded by the following accounts:

Fund Account	Fund ID Number	Project Award	10% Contingencies	Total
Sidewalk Fund – Gap Closures	101.0-444.000-981.0100	$24,375.00	$2,437.50	$26,812.50
Local Street Fund	203.0-449.001-981.0100	$2,305,363.90	$230,536.39	$2,535,900.29
Sewer Fund	590.0-537.000-981.0100	$1,962,477.50	$196,247.75	$2,158,725.25
Water Fund	591.0-544.000-981.0100	$1,304,598.50	$130,459.85	$1,435,058.32

SUSTAINABILITY:
This project will install a portion of a separated storm sewer that will either drain to the existing storm sewer on Lincoln Street or a new storm outlet on Shirley north of Lincoln. The separation of storm sewer out of the combined sewer eliminates the need and cost to treat storm water runoff at a waste water treatment facility.

DESIGN CONSIDERATIONS:
At the February 5, 2024 City Commission Meeting, a resolution was approved for Arlington Street from Lincoln Street to Maple Road and Shirley Road from Lincoln Street to Maple Road to be converted to improved roads by maintaining the existing road width and paving the roads with new concrete curb and gutter, an engineered aggregate base, and asphalt paving, with no sidewalk. Also at this meeting a resolution was passed to add Brandon Street to the Arlington Street and Shirley Street project and to proceed with the final design to include construction of the street within the project area to meet the City standards for an improved street with a five-foot-wide sidewalk on at least one side of the road, accommodating parking and the entrance to the park, as well as a gate to block access to the pump house road/drive.

PUBLIC COMMUNICATIONS:
Property owners received notification during the sewer and water lateral and paving special assessment district process. A property owner's meeting was held on June 4, 2024, and communication methods for property owners in the project area will be included in the general project announcement.

SUMMARY:
The Engineering Department recommends the Arlington, Shirley, and Brandon Project Contract #6-24 (W) be awarded to DiPonio Contracting.

ATTACHMENTS:
- Project Area Map
- Bid Summary
- Nowak and Fraus Recommendation Letter
- Plans
- Contract Book

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution to award the Arlington, Shirley, and Brandon Project #6-24 (W) to DiPonio Contracting, LLC in the amount of $5,596,814.90 plus a 10% construction contingency for a total of $6,156,496.39. In addition, to authorize the Mayor and Clerk to sign the agreement on behalf of the City contingent upon execution of the agreement and meeting all insurance and bond requirements by DiPonio Contracting, LLC. Funding for this project has been budgeted in the following accounts for the following years:

Fund Account	Fund ID Number	Project Award	10% Contingencies	Total
Sidewalk Fund – Gap Closures	101.0-444.000-981.0100	$24,375.00	$2,437.50	$26,812.50
Local Street Fund	203.0-449.001-981.0100	$2,305,363.90	$230,536.39	$2,535,900.29
Sewer Fund	590.0-537.000-981.0100	$1,962,477.50	$196,247.75	$2,158,725.25
Water Fund	591.0-544.000-981.0100	$1,304,598.50	$130,459.85	$1,435,058.32

AND

To approve the appropriation and amendment of the fiscal year 2024/2025 budget as follows:

Sidewalk Fund:

Revenues:

101.0-000.000-400.0000	Draw from Fund Balance	$26,820

Total Revenue		$26,820
Expenditures:		
101.0-444.000-981.0100	Public Improvement	$26,820
Total Expenses		$26,820

Local Street Fund:

Revenues:		
203.0-000.000-400.0000	Draw from Fund Balance	$2,535,910
Total Revenue		$2,535,910
Expenditures:		
203.0-449.001-981.0100	Public Improvement	$2,535,910
Total Expenses		$2,535,910

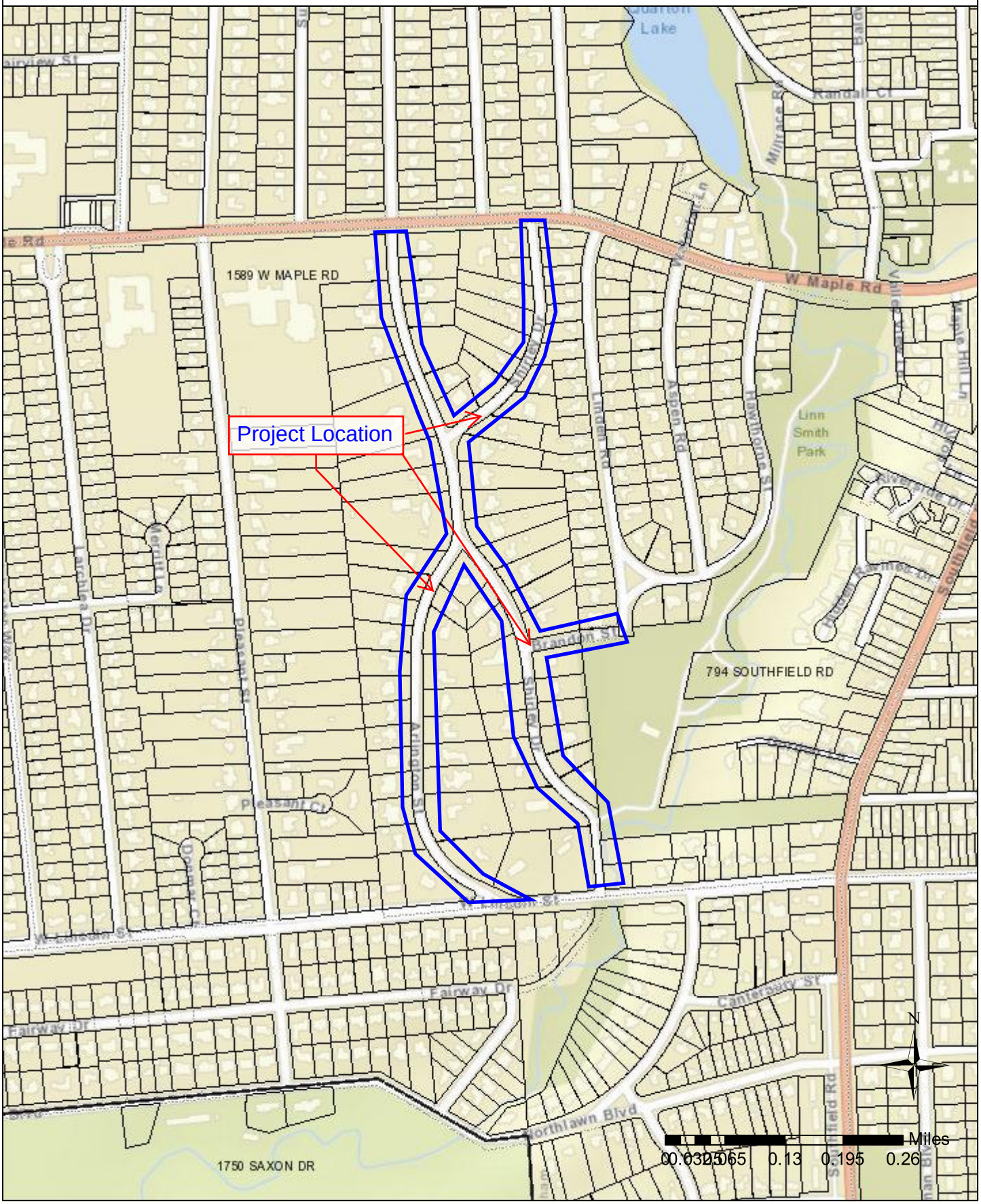
Sewer Fund:

Revenues:		
590.0-000.000-400.0000	Draw from Net Position	$2,158,730
Total Revenue		$2,158,730
Expenditures:		
590.0-537.000-981.0100	Public Improvements	$2,158,730
Total Expenses		$2,158,730

Water Fund:

Revenues:		
591.0-000.000-400.0000	Draw from Net Position	$1,430,060
Total Revenue		$1,430,060
Expenditures:		
591.0-544.000-981.0100	Public Improvement	$1,430,060
Total Expenses		$1,430,060

Arlington Street, Shirley Drive, and Brandon Street



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BID TABULATION
CITY OF BIRMINGHAM
ARLINGTON ROAD & SHIRLEY DRIVE
CONTRACT #9-24 (W)

Bids Due: May 23, 2024

Item	Quantity	Unit	**DiPonio Contracting, LLc** 51251 Simone Industrial Drive Shelby Twp., MI 48319 Unit Price	Total Cost	**CI Contracting, Inc.** 7135 Dan McGuire Dr., Ste. B Brighton, MI 48116 Unit Price	Total Cost
SEWER PAY ITEMS (BASE BID)						
1. 18" Combined Sewer, PVC SDR 26, Trench A	630	LF	$ 230.00	$ 144,900.00	$ 374.50	$ 235,935.00
2. 12" Combined Sewer, PVC SDR 26, Trence A	312	LF	$ 200.00	$ 62,400.00	$ 353.50	$ 110,292.00
3. 10" Combined Sewer, PVC SDR 26, Trench A	134	LF	$ 150.00	$ 20,100.00	$ 240.75	$ 32,260.50
4. 24" Storm Sewer, C76, CL-IV, Trench A	238	LF	$ 200.00	$ 47,600.00	$ 360.00	$ 85,680.00
5. 21" Storm Sewer, C76, CL-IV, Trench A	249	LF	$ 240.00	$ 59,760.00	$ 337.25	$ 83,975.25
6. 18" Storm Sewer, C76, CL-IV, Trence A	346	LF	$ 90.00	$ 31,140.00	$ 183.00	$ 63,318.00
7. 15" Storm Sewer, C76, CL-IV, Trench A	30	LF	$ 120.00	$ 3,600.00	$ 348.00	$ 10,440.00
8. 12" Storm Sewer, C76, CL-IV, Trench A	2,016	LF	$ 80.00	$ 161,280.00	$ 180.00	$ 362,880.00
9. 10" Storm Sewer, PVC SDR 26, Trench A	105	LF	$ 90.00	$ 9,450.00	$ 119.50	$ 12,547.50
10. Sewer Point Repair, 12" Diameter, PVC SDR 26, Trenche A	130	LF	$ 210.00	$ 27,300.00	$ 578.00	$ 75,140.00
11. Sewer Service, 8" PVC SDR 26	17	LF	$ 250.00	$ 4,250.00	$ 224.75	$ 3,820.75
12. Sewer Service, 6" PVC SDR 23.5	1,905	LF	$ 200.00	$ 381,000.00	$ 180.00	$ 342,900.00
13. New 4'-0" Diameter Combined Manhole, Construct Online	3	EA	$ 7,000.00	$ 21,000.00	$ 10,085.50	$ 30,256.50
14. New 4'-0" Diameter Combined Manhole	4	EA	$ 6,000.00	$ 24,000.00	$ 10,085.50	$ 40,342.00
15. New 5'-0" Diameter Storm Manhole, Contruct Online	2	EA	$ 6,000.00	$ 12,000.00	$ 10,783.25	$ 21,566.50
16. New 5'-0" Diameter Storm Catch Basin w/2' Sump 7 Dual Inlet Grates	2	EA	$ 6,000.00	$ 12,000.00	$ 7,125.00	$ 14,250.00
17. New 5'-0" Diameter Storm Catch Basin w/2' sump	6	EA	$ 5,700.00	$ 34,200.00	$ 5,968.75	$ 35,812.50
18. New 4'-0" Diameter Storm Manhole, Construct Online	1	EA	$ 4,000.00	$ 4,000.00	$ 6,509.00	$ 6,509.00
19. New 4'-0" Diameter Storm Manhole w/2' Sump	4	EA	$ 4,500.00	$ 18,000.00	$ 3,980.75	$ 15,923.00
20. New 4'-0" Diameter Storm Manhole	1	EA	$ 3,500.00	$ 3,500.00	$ 3,980.75	$ 3,980.75
21. New 4'-0" Diameter Storm Catch Basin w/2' Sump, Construct Online	3	EA	$ 3,700.00	$ 11,100.00	$ 5,769.25	$ 17,307.75
22. New 4'-0" Diameter Storm Catch Basin w/2' Sump	13	EA	$ 3,100.00	$ 40,300.00	$ 3,980.75	$ 51,749.75
23. New 2'-0" Diameter Storm Inlet	21	EA	$ 2,200.00	$ 46,200.00	$ 2,573.50	$ 54,043.50
24. 6" Perforated Pipe Underdrain (No Sock)	4,810	LF	$ 20.00	$ 96,200.00	$ 21.25	$ 102,212.50
25. Sewer Investigation, Laterals	55	EA	$ 400.00	$ 22,000.00	$ 400.00	$ 22,000.00
26. Sewer Service Tap, 6"	23	EA	$ 600.00	$ 13,800.00	$ 4,178.25	$ 96,099.75
27. Sewer Service Connection, 8"	1	EA	$ 30.00	$ 30.00	$ 550.25	$ 550.25
28. Sewer Service Connection, 6"	55	EA	$ 20.00	$ 1,100.00	$ 470.00	$ 25,850.00

BID TABULATION
CITY OF BIRMINGHAM
ARLINGTON ROAD & SHIRLEY DRIVE
CONTRACT #9-24 (W)

Bids Due: May 23, 2024

Item	Quantity	Unit	**DiPonio Contracting, LLc** 51251 Simone Industrial Drive Shelby Twp., MI 48319 Unit Price	Total Cost	**CI Contracting, Inc.** 7135 Dan McGuire Dr., Ste. B Brighton, MI 48116 Unit Price	Total Cost
29. Sewer Tap, 24"	1	EA	$ 2,500.00	$ 2,500.00	$ 8,843.50	$ 8,843.50
30. Sewer Tap, 15"	1	EA	$ 2,000.00	$ 2,000.00	$ 5,184.75	$ 5,184.75
31. Sewer Tap, 12"	4	EA	$ 2,000.00	$ 8,000.00	$ 3,652.50	$ 14,610.00
32. Sewer Tap, 10"	2	EA	$ 1,000.00	$ 2,000.00	$ 3,771.75	$ 7,543.50
33. Sewer Tap, 6", Underdrain	4	EA	$ 400.00	$ 1,600.00	$ 1,691.75	$ 6,767.00
34. Install Concrete Saddle at Utility Crossing	6	EA	$ 900.00	$ 5,400.00	$ 2,285.00	$ 13,710.00
35. Reconstruct Manhole (if and where needed)	100	VF	$ 250.00	$ 25,000.00	$ 192.50	$ 19,250.00
36. Remove & Replace Structure Cover (as directed by City)	4,125	LB	$ 2.50	$ 10,312.50	$ 2.00	$ 8,250.00
37. Remove Ex. Sewer Manhole	9	EA	$ 800.00	$ 7,200.00	$ 762.75	$ 6,864.75
38. Remove Ex. Drainage Structure	32	EA	$ 700.00	$ 22,400.00	$ 762.75	$ 24,408.00
39. Abandon Ex. 18" Combined Sewer	393	LF	$ 15.00	$ 5,895.00	$ 97.25	$ 38,219.25
40. Abandon Ex. 12" Combined Sewer	280	LF	$ 10.00	$ 2,800.00	$ 97.25	$ 27,230.00
41. Remove Ex. 18" Combined Sewer	233	LF	$ 50.00	$ 11,650.00	$ 12.50	$ 2,912.50
42. Remove Ex. 12" Combined Sewer	11	LF	$ 60.00	$ 660.00	$ 12.50	$ 137.50
43. Remove Ex. 10" Combined Sewer	87	LF	$ 60.00	$ 5,220.00	$ 12.50	$ 1,087.50
44. Remove Ex. 6" Combined Sewer	8	LF	$ 60.00	$ 480.00	$ 13.00	$ 104.00
45. Remove Ex. 24" Storm Sewer	13	LF	$ 100.00	$ 1,300.00	$ 12.75	$ 165.75
46. Remove Ex. 12" Storm Sewer	309	LF	$ 50.00	$ 15,450.00	$ 12.50	$ 3,862.50
47. Remove Ex. 10" Storm Sewer	387	LF	$ 50.00	$ 19,350.00	$ 12.50	$ 4,837.50
48. Remove Ex. 8" Storm Sewer	198	LF	$ 30.00	$ 5,940.00	$ 12.50	$ 2,475.00
49. Remove Ex. 6" Storm Sewer	8	LF	$ 60.00	$ 480.00	$ 13.00	$ 104.00
50. Bulkhead Structure, 12" or Less	25	EA	$ 600.00	$ 15,000.00	$ 228.00	$ 5,700.00
51. Bulkhead Pipe, Larger than 8"	1	EA	$ 500.00	$ 500.00	$ 122.25	$ 122.25
52. CCTV Sewer Acceptance Inspection	1	LS	$ 10,000.00	$ 10,000.00	$ 35,000.00	$ 35,000.00
SUBTOTAL - SEWER PAY ITEMS				**$ 1,493,347.50**		**$ 2,195,032.00** *
WATER MAIN PAY ITEMS (BASE BID)						
53. Remove Hydrant	6	EA	$ 700.00	$ 4,200.00	$ 401.75	$ 2,410.50
54. Remove Gate Valve Well	9	EA	$ 800.00	$ 7,200.00	$ 762.75	$ 6,864.75
55. 8" Gate Valve & Well	13	EA	$ 7,200.00	$ 93,600.00	$ 7,068.00	$ 91,884.00
56. Fire Hydrant Addembly, Complete	10	EA	$ 6,600.00	$ 66,000.00	$ 9,170.75	$ 91,707.50
57. 12" D.I. CL 52 Water Main w/ Polywrap, Trench A	18	LF	$ 300.00	$ 5,400.00	$ 461.00	$ 8,298.00
58. 8" D.I. CL 52 Water Main w/ Polywrap, Trench A	5,523	LF	$ 137.00	$ 756,651.00	$ 154.00	$ 850,542.00

BID TABULATION
CITY OF BIRMINGHAM
ARLINGTON ROAD & SHIRLEY DRIVE
CONTRACT #9-24 (W)

Bids Due: May 23, 2024

				DiPonio Contracting, LLc 51251 Simone Industrial Drive Shelby Twp., MI 48319		**CI Contracting, Inc.** 7135 Dan McGuire Dr., Ste. B Brighton, MI 48116	
	Item	Quantity	Unit	Unit Price	Total Cost	Unit Price	Total Cost
59.	6" D.I. CL 52 Water Main w/ Polywrap, Trench A	206	LF	$ 140.00	$ 28,840.00	$ 110.25	$ 22,711.50
60.	12" Water Main Connection to Ex. 12" Water Main	2	EA	$ 6,500.00	$ 13,000.00	$ 9,508.25	$ 19,016.50
61.	8" Water Main Connection to Ex. 8" Water Main	5	EA	$ 6,300.00	$ 31,500.00	$ 5,102.25	$ 25,511.25
62.	New Water Service, 2", Tench A, Copper	20	LF	$ 90.00	$ 1,800.00	$ 367.25	$ 7,345.00
63.	New Water Service, 1.5", Trench A, Copper	168	LF	$ 75.00	$ 12,600.00	$ 133.50	$ 22,428.00
64.	New Water Service, 1", Trench A, Copper	401	LF	$ 70.00	$ 28,070.00	$ 1,450.75	$ 581,750.75
65.	New Water Service, 1", Private Property (Bored), PEX	60	LF	$ 80.00	$ 4,800.00	$ 170.25	$ 10,215.00
66.	Water Service Connection, 2"	2	EA	$ 1,500.00	$ 3,000.00	$ 1,897.75	$ 3,795.50
67.	Water Service Connection, 1.5"	28	EA	$ 800.00	$ 22,400.00	$ 1,830.50	$ 51,254.00
68.	Water Service Connection, 1"	42	EA	$ 600.00	$ 25,200.00	$ 858.75	$ 36,067.50
69.	Water Service Connection, 1", Connection at Meter, 663 Shirley	1	EA	$ 6,500.00	$ 6,500.00	$ 1,996.75	$ 1,996.75
70.	Install Curb Stop & Box, 1"	7	EA	$ 450.00	$ 3,150.00	$ 720.75	$ 5,045.25
71.	Hydra-Stop, Insta-Valve 250, 12"	1	EA	$ 13,000.00	$ 13,000.00	$ 22,623.00	$ 22,623.00
72.	Hydra-Stop, Line-Stop, 12"	1	EA	$ 5,000.00	$ 5,000.00	$ 10,231.00	$ 10,231.00
73.	Hydra-Stop, Line-Stop, 8"	4	EA	$ 4,500.00	$ 18,000.00	$ 8,404.00	$ 33,616.00
74.	Abandon Existing Water Mains, Entire Project	1	LS	$ 10,000.00	$ 10,000.00	$ 113,317.50	$ 113,317.50
	SUBTOTAL - WATER MAIN PAY ITEMS				**$ 1,159,911.00**		**$ 2,018,631.25**
	PAVING PAY ITEMS (BASE BID)						
75.	Earth Excavation	7,600	CY	$ 35.00	$ 266,000.00	$ 40.00	$ 304,000.00
76.	Subgrade Undercutting, 21AA Limestone	750	CY	$ 60.00	$ 45,000.00	$ 169.50	$ 127,125.00
77.	Subgrade Undercutting, 1"x3" Limestone	750	CY	$ 55.00	$ 41,250.00	$ 135.75	$ 101,812.50
78.	Subgrade Geogrid Fabric, Tensar Triax TX130S	2,500	SY	$ 3.00	$ 7,500.00	$ 1.75	$ 4,375.00
79.	Remove and Salvage Brick Pavers	1,812	SF	$ 4.00	$ 7,248.00	$ 7.25	$ 13,137.00
80.	Removing Concrete Drive Approach	476	SY	$ 25.00	$ 11,900.00	$ 24.75	$ 11,781.00
81.	Removing Asphalt Drive Approach	896	SY	$ 20.00	$ 17,920.00	$ 14.00	$ 12,544.00
82.	Removing Concrete Sidewalk & Ramp (sawcutting included)	231	SY	$ 20.00	$ 4,620.00	$ 24.00	$ 5,544.00
83.	Removing Pavement Full Depth (Curb & Gutter included)	23,046	SY	$ 8.00	$ 184,368.00	$ 4.50	$ 103,707.00
84.	Aggregate Base, MDOT 21AA Limestone, 8"	24,582	SY	$ 18.00	$ 442,476.00	$ 21.00	$ 516,222.00

BID TABULATION
CITY OF BIRMINGHAM
ARLINGTON ROAD & SHIRLEY DRIVE
CONTRACT #9-24 (W)

Bids Due: May 23, 2024

	Item	Quantity	Unit	DiPonio Contracting, LLc 51251 Simone Industrial Drive Shelby Twp., MI 48319 Unit Price	Total Cost	CI Contracting, Inc. 7135 Dan McGuire Dr., Ste. B Brighton, MI 48116 Unit Price	Total Cost
85.	Replace Maple Road Composite Pavement at Arlington (Per Detail)	1	LS	$ 15,000.00	$ 15,000.00	$ 10,315.00	$ 10,315.00
86.	Replace Maple Rd Composite Pavement at Shirley (Per Detail)	1	LS	$ 13,000.00	$ 13,000.00	$ 10,815.00	$ 10,815.00
87.	Bituminous Mixture No. 5EML (2.0" Leveling Course)	2,344	TON	$ 114.60	$ 268,622.40	$ 114.50	$ 268,388.00
88.	Bituminous Mixture No. 4EML (2.0" Leveling Course)	2,344	TON	$ 110.50	$ 259,012.00	$ 110.50	$ 259,012.00
89.	Concrete Curb & Gutter (18" Wide, "Birmingham Roll")	12,350	LF	$ 19.70	$ 243,295.00	$ 19.75	$ 243,912.50
90.	Concrete Drive Approach, 6"	1,654	SY	$ 80.00	$ 132,320.00	$ 54.00	$ 89,316.00
91.	Concrete Sidewalk, 4"	3,067	SF	$ 8.00	$ 24,536.00	$ 5.75	$ 17,635.25
92.	Reinstall Salvaged Brick Pavers	105	SF	$ 70.00	$ 7,350.00	$ 64.75	$ 6,798.75
93.	Handicap Ramp Truncated Domes	84	SF	$ 45.00	$ 3,780.00	$ 85.00	$ 7,140.00
94.	Adjust Structure Cover	33	EA	$ 1,250.00	$ 41,250.00	$ 868.75	$ 28,668.75
95.	Maintenance Aggregate For Entire Project	1	LS	$ 25,000.00	$ 25,000.00	$ 81,131.50	$ 81,131.50
	SUBTOTAL - PAVING PAY ITEMS				**$ 2,061,447.40**		**$ 2,223,380.25**
	GENERAL PAY ITEMS						
96.	Mobilization (Max 5% of Bid)	1	LS	$ 250,000.00	$ 250,000.00	$ 340,000.00	$ 340,000.00
97.	Traffic Maintenance & Control	1	LS	$ 40,000.00	$ 40,000.00	$ 28,080.00	$ 28,080.00
98.	Inspector Crew Days	$650.00	DAY	180	$ 117,000.00	180	$ 117,000.00
99.	Water and Sewer Allowance	1	LS	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00
100.	Pavement Marking, Polyurea, 24 Inch Stop Bar, White	96	LF	$ 13.25	$ 1,272.00	$ 13.25	$ 1,272.00
101.	Pavement Marking, Polyurea, 24 inch Crosshatching, White	84	LF	$ 13.25	$ 1,113.00	$ 13.25	$ 1,113.00
102.	Pavement Marking, Polyurea, 4 inch, White or Blue	175	LF	$ 2.00	$ 350.00	$ 2.00	$ 350.00
103.	Recessing Pavt Mkrg, Transv	340	SF	$ 3.25	$ 1,105.00	$ 3.25	$ 1,105.00
104.	Salvage Existing Signs	1	LS	$ 500.00	$ 500.00	$ 500.00	$ 500.00
105.	New Signs	60	SF	$ 15.00	$ 900.00	$ 15.00	$ 900.00
106.	Sign Post, U-Channel	96	LF	$ 20.00	$ 1,920.00	$ 20.00	$ 1,920.00
107.	Wood Split Rail Fence	125	LF	$ 35.00	$ 4,375.00	$ 55.00	$ 6,875.00

BID TABULATION
CITY OF BIRMINGHAM
ARLINGTON ROAD & SHIRLEY DRIVE
CONTRACT #9-24 (W)

Bids Due: May 23, 2024

Item	Quantity	Unit	**DiPonio Contracting, LLc** 51251 Simone Industrial Drive Shelby Twp., MI 48319 Unit Price	Total Cost	**CI Contracting, Inc.** 7135 Dan McGuire Dr., Ste. B Brighton, MI 48116 Unit Price	Total Cost	
108. Tree Protection, 3" Dia or Greater	145	EA	$ 150.00	$ 21,750.00	$ 56.25	$ 8,156.25	
109. Mulch 3"	600	SY	$ 12.15	$ 7,290.00	$ 9.25	$ 5,550.00	
110. Topsoil, 3"	6,260	SY	$ 3.80	$ 23,788.00	$ 5.50	$ 34,430.00	
111. Sod, Class A	6,260	SY	$ 6.60	$ 41,316.00	$ 5.50	$ 34,430.00	
112. Inlet Filter	25	EA	$ 100.00	$ 2,500.00	$ 186.50	$ 4,662.50	
113. Inlet Sediment Pit	25	EA	$ 200.00	$ 5,000.00	$ 877.25	$ 21,931.25	
SUBTOTAL - GENERAL PAY ITEMS				**$ 595,179.00**		**$ 683,275.00**	
TOTAL BASE BID (SEWER, WATER MAIN, PAVING, AND GENERAL PAY ITEMS)				**$ 5,309,884.90**		**$ 7,120,318.50**	*
ALTERNATE #1 - "ROUGE RIVER STORM OUTFALL"							
ALTERNATE #1 PAY ITEMS							
114. 30" Storm Sewer, C76, CL-IV, Trench A	250	LF	$ 185.00	$ 46,250.00	$ 389.00	$ 97,250.00	
115. 12" Storm Sewer, C76, CL-IV, Trench A	46	LF	$ 80.00	$ 3,680.00	$ 118.75	$ 5,462.50	
116. Remove Ex. MH 154 & Install Contech SCX-12 Water Quality Structure	1	EA	$ 188,000.00	$ 188,000.00	$ 180,000.00	$ 180,000.00	
117. Install Contech CS-5 Water Quality Structure	1	EA	$ 25,000.00	$ 25,000.00	$ 62,856.50	$ 62,856.50	
118. New 5'-0" Diameter Storm Manhole, Construct Online	1	EA	$ 6,200.00	$ 6,200.00	$ 5,968.75	$ 5,968.75	
119. New 5'-0" Diameter Storm Manhole	2	EA	$ 6,700.00	$ 13,400.00	$ 5,968.75	$ 11,937.50	
120. New 30" Dia End Section w/ Bar Screen	1	EA	$ 2,000.00	$ 2,000.00	$ 5,190.50	$ 5,190.50	
121. Natural Stone Rip-Rap, 12"-18"	20	SY	$ 120.00	$ 2,400.00	$ 74.00	$ 1,480.00	
SUBTOTAL - ALTERNATE #1 PAY ITEMS				**$ 286,930.00**		**$ 370,145.75**	
TOTAL BASE BID				**$ 5,309,884.90**		**$ 7,120,318.50**	*
TOTAL BID W/ ALTERNATE #1				**$ 5,596,814.90**		**$ 7,490,464.25**	*

Corrected by Engineering *

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

June 14, 2024

City of Birmingham
151 Martin Street
Birmingham, MI 48012

Attn: Ms. Melissa A. Coatta, P.E.
City Engineer

Re: Recommendation for Bid Award
Arlington Road & Shirley Drive Watermain Project - Contract #9-24W
NFE Job #N758

Dear Ms. Coatta,

Bids for the subject project were received, opened, and read on Thursday, May 23rd, 2024, at 2:00 p.m. at City Hall. A total of two (2) bids were received and read. The bids have been tabulated, checked, and are in order. The low bidder for the project is DiPonio Contracting, LLC (DiPonio), whose total bid amounts for the Base Bid and Alternate #1 scope of work were the lowest bids received, at $5,309,884.90 and $5,596,814.90, respectively. We note that the low bid amounts received from DiPonio were below the Engineer's Opinion of Probable Cost for both respective alternates, by approximately 10%.

NFE has experience working with DiPonio on numerous previous infrastructure projects, both in Birmingham and other surrounding communities. Based on this previous experience, along with review of their submitted reference projects, we do not have any concerns about DiPonio's capability to perform the work.

We understand that the City is planning to select the Alternate #1 scope of work for this contract, which includes stormwater improvements that will also help reduce flows contributing to the combined sewer system in this area. We therefore recommend that Contract #9-24W for the Arlington Road & Shirley Drive Watermain Project be awarded to DiPonio Contracting, LLC in the amount of **$5,596,814.90**
Please do not hesitate to contact our office if you have any questions or comments.

Sincerely,

Paul Tulikangas, P.E.
Associate / Engineering Manager

Brett Buchholz, P.E.,
Principal

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVENUE
PONTIAC, MI 48342-5032
WWW.NOWAKFRAUS.COM
VOICE: 248.332.7931
FAX: 248.332.8257

BIRMINGHAM

A WALKABLE CITY

ENGINEERING DEPARTMENT

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

SHEET INDEX

C00 Cover Sheet
C01 Utility Plan Sta P.O.B to 5+00 (Arlington Road)
C02 Utility Plan Sta 5+00 to 10+00 (Arlington Road)
C03 Utility Plan Sta 10+00 to 15+00 (Arlington Road)
C04 Utility Plan Sta 15+00 to 21+00 (Arlington Road)
C05 Utility Plan Sta 21+00 to 26+00 (Arlington Road)
C06 Utility Plan Sta 26+00 to P.O.E. (Arlington Road)
C07 Utility Plan Sta P.O.B to 5+00 (Shirley Drive - South)
C08 Utility Plan Sta 5+00 to 10+00 (Shirley Drive - South)
C09 Utility Plan Sta 10+00 to 14+00 (Shirley Drive - South)
C10 Utility Plan Sta 14+00 to P.O.E. (Shirley Drive - South)
C11 Utility Plan Sta P.O.B. to 5+00 (Shirley Drive - North)
C12 Utility Plan Sta 5+00 to P.O.E. (Shirley Drive - North)
C13 Utility Service Plan Sta P.O.B. to 10+00 (Arlington Drive)
C14 Utility Service Plan Sta 10+00 to 21+00 (Arlington Drive)
C15 Utility Service Plan Sta 21+00 to P.O.E. (Arlington Drive)
C16 Utility Service Plan Sta P.O.B. to 10+00 (Shirley - South)
C17 Utility Service Plan Sta 10+00 to P.O.E. (Shirley - South)
C18 Utility Service Plan Sta P.O.B. to P.O.E. (Shirley - North)
C19 Storm Sewer Profiles - Arlington Road (1 of 2)
C20 Storm Sewer Profiles - Arlington Road (2 of 2)
C21 Storm Sewer Profiles - Shirley Drive (1 of 2)
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C23 Hydrant Lead Profiles - Arlington Road
C24 Hydrant Lead Profiles - Shirley Drive
C25 Paving & Grading Plan Sta P.O.B. to 5+00 (Arlington Road)
C26 Paving & Grading Plan Sta 5+00 to 10+00 (Arlington Road)
C27 Paving & Grading Plan Sta 10+00 to 15+00 (Arlington Road)
C28 Paving & Grading Plan Sta 15+00 to 21+00 (Arlington Road)
C29 Paving & Grading Plan Sta 21+00 to 26+00 (Arlington Road)
C30 Paving & Grading Plan Sta 26+00 to P.O.E. (Arlington Road)
C31 Paving & Grading Plan Sta P.O.B. to 5+00 (Shirley - South)
C32 Paving & Grading Plan Sta 5+00 to 10+00 (Shirley - South)
C33 Paving & Grading Plan Sta 10+00 to 14+00 (Shirley - South)
C34 Paving & Grading Plan Sta 14+00 to P.O.E. (Shirley - South)
C35 Paving & Grading Plan Sta P.O.B. to 5+00 (Shirley - North)
C36 Paving & Grading Plan Sta 5+00 to P.O.E. (Shirley - North)
C37 Paving & Grading Plan Sta P.O.B. to P.O.E. (Brandon St)
C38 Intersection Grading Details
C39 Exisiting and Proposed Road Cross-Sections
C40 Advanced Warning Signage Diagram
C41 Maple Rd. Traffic Detour Diagram
C42 Notes and Details (1 of 3)
C43 Notes and Details (2 of 3)
C44 Notes and Details (3 of 3)
Q1 Quantities

CITY OF BIRMINGHAM - WATER MAIN STANDARD DETAILS
CITY OF BIRMINGHAM - SEWER STANDARD DETAILS

WATER / SEWER SERVICE NOTE

ALL WATER AND SEWER SERVICE LATERAL INFORMATION IS SHOWN PER RECORD, WITHIN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH CITY FOR ALL PRIVATE-SIDE WATER AND SEWER LATERAL INFORMATION, AS REQUIRED, TO CONSTRUCT THE PROJECT INC.).

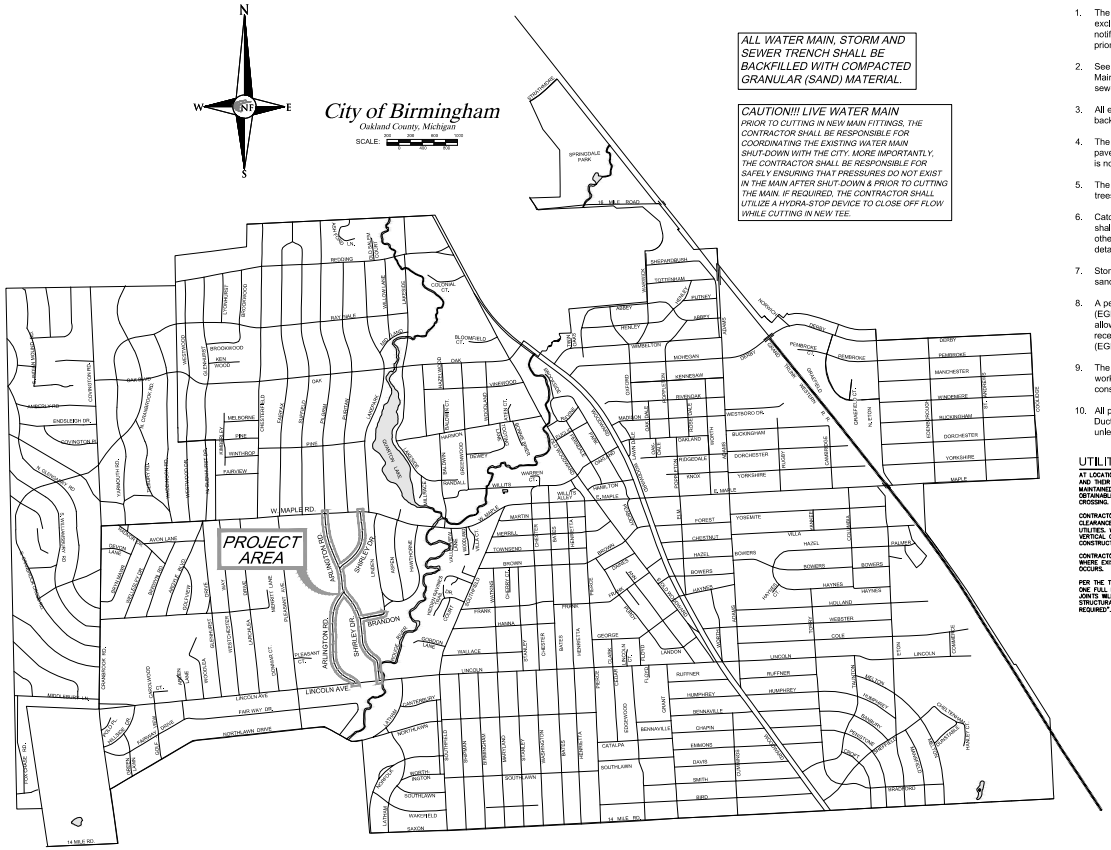
UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF., THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

Know what's below Call before you dig.

BENCHMARK NOTE

BENCHMARKS SET AND SHOWN PER SHEET WERE ESTABLISHED OFF OF THE CITY OF BIRMINGHAM BENCHMARK DATUM.



ALL WATER MAIN, STORM AND SEWER TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR (SAND) MATERIAL.

CAUTION!!! LIVE WATER MAIN
PRIOR TO CUTTING IN NEW MAIN FITTINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE EXISTING WATER MAIN SHUT-DOWN WITH THE CITY. MORE IMPORTANTLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY ENSURING THAT PRESSURES DO NOT EXIST IN THE MAIN AFTER SHUT-DOWN & PRIOR TO CUTTING THE MAIN. IF REQUIRED, THE CONTRACTOR SHALL UTILIZE A HYDRA-STOP DEVICE TO CLOSE OFF FLOW WHILE CUTTING IN NEW TEE.

CONSTRUCTION NOTES

These notes shall apply for all work within this contract:

1. The contractor shall notify MISS DIG 1-800-482-7171 at least 3 working days excluding Saturday, Sunday, and Holidays before making any excavations and notify the City of Birmingham Engineering Department a minimum of 24 hours prior to the start of construction (248-530-1850).
2. See the City of Birmingham drawings "Sewer Standard Details" and "Water Main Standard Details" for details of manholes, catch basins, inlets, and related sewer and water main work.
3. All excavation under or within three feet of pavement, public or private, shall be backfilled and compacted with sand.
4. The joints at the edges of all excavations in the pavement shall be sawcut, or pavement will be removed to existing joints, as directed by the Engineer. There is no separate pay item for saw cutting pavements.
5. The contractor shall be responsible for damage to existing utilities, pavement, trees, landscaping, gravel, etc., whether located on public or private property.
6. Catch basin and inlet castings scheduled for replacement, or new construction shall be EJIW 5000Z4 DI / 5000M4 DI Hinged Assembly unless specified otherwise. Manhole castings shall be EJIW 1040-A cover as noted on the detail sheets and plans, unless otherwise specified.
7. Storm, sewer and water main trench shall be backfilled with MDOT Class II sand and properly compacted to 95% of modified proctor density.
8. A permit from the Michigan Department of Environment, Great Lakes & Energy (EGLE) is required for all new water main installations. Also, no work shall be allowed on the combined sewer system until appropriate permits have been received by the Michigan Department of Environment, Great Lakes & Energy (EGLE).
9. The contractor shall coordinate and cooperate with all other utility companies working in the same area, project related or not, during the same allotted construction period.
10. All proposed Public Water Main for this project shall be Pressure Class 52 Ductile Iron Pipe (D.I.P.) in conformance with City of Birmingham specifications, unless otherwise noted.

UTILITY CROSSING NOTE

AT LOCATIONS WHERE THERE ARE CROSSING WITH EXISTING UTILITES AND THEIR DEPTHS ARE UNKNOWN, 18" VERTICAL SEPARATION WILL BE MAINTAINED WHENEVER POSSIBLE. IF THE 18" SEPARATION IS NOT OBTAINABLE, A CONCRETE ENCASEMENT WILL BE INSTALLED AT THE CROSSING.

CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' SEPARATION CANNOT BE MAINTAINED, 18" VERTICAL CLEARANCE SHALL BE PROVIDED AND UTILITES SHALL BE CONSTRUCTED IN SEPARATE TRENCHES.

CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS.

PER THE TEN STATES STANDARDS, ARTICLE 8.8.3 (b), "AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE (20') SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED".

DESIGN ENGINEER SEAL

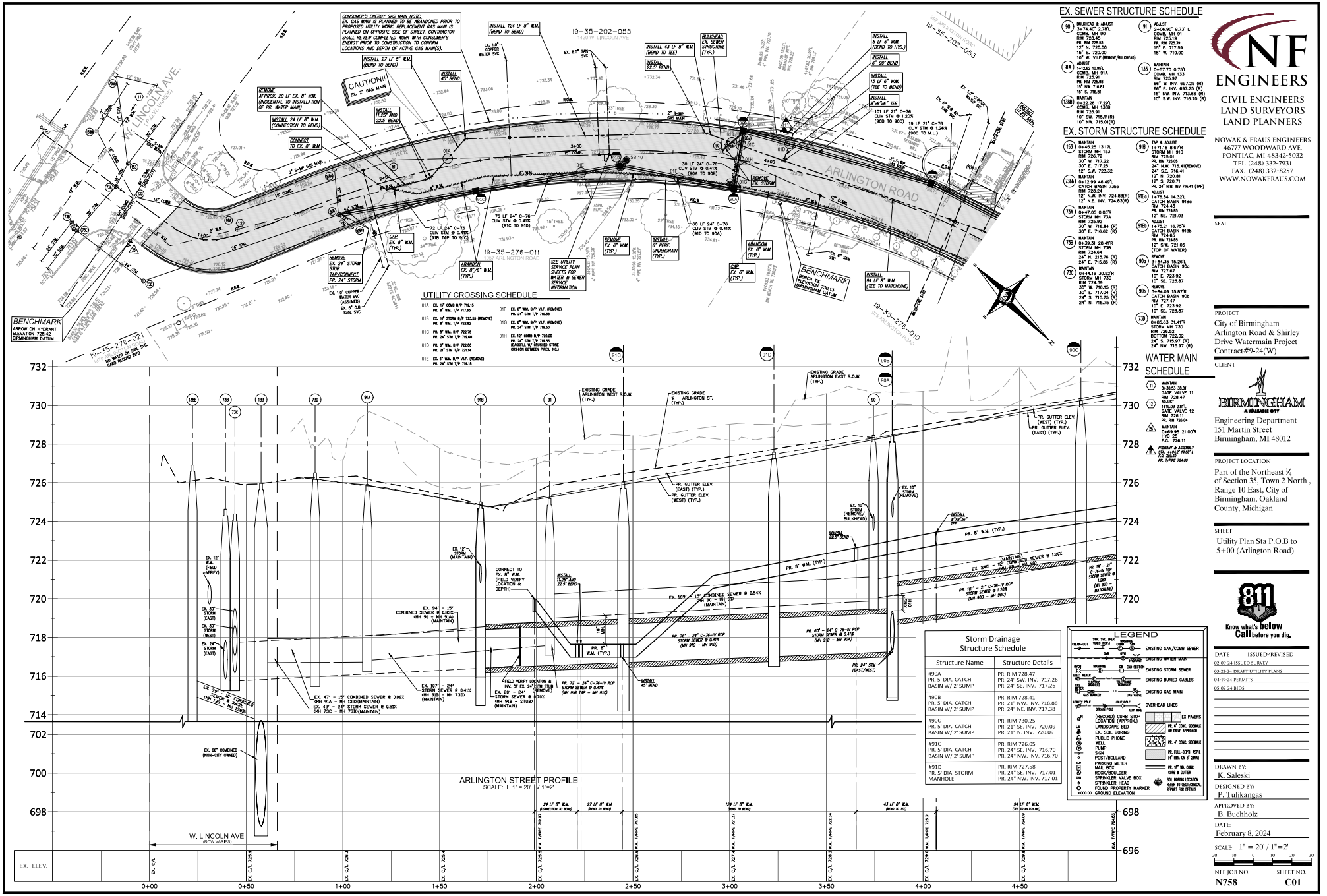
STATE OF MICHIGAN
PAUL TULIKANGAS
ENGINEER NO. 057929
LICENSED PROFESSIONAL ENGINEER

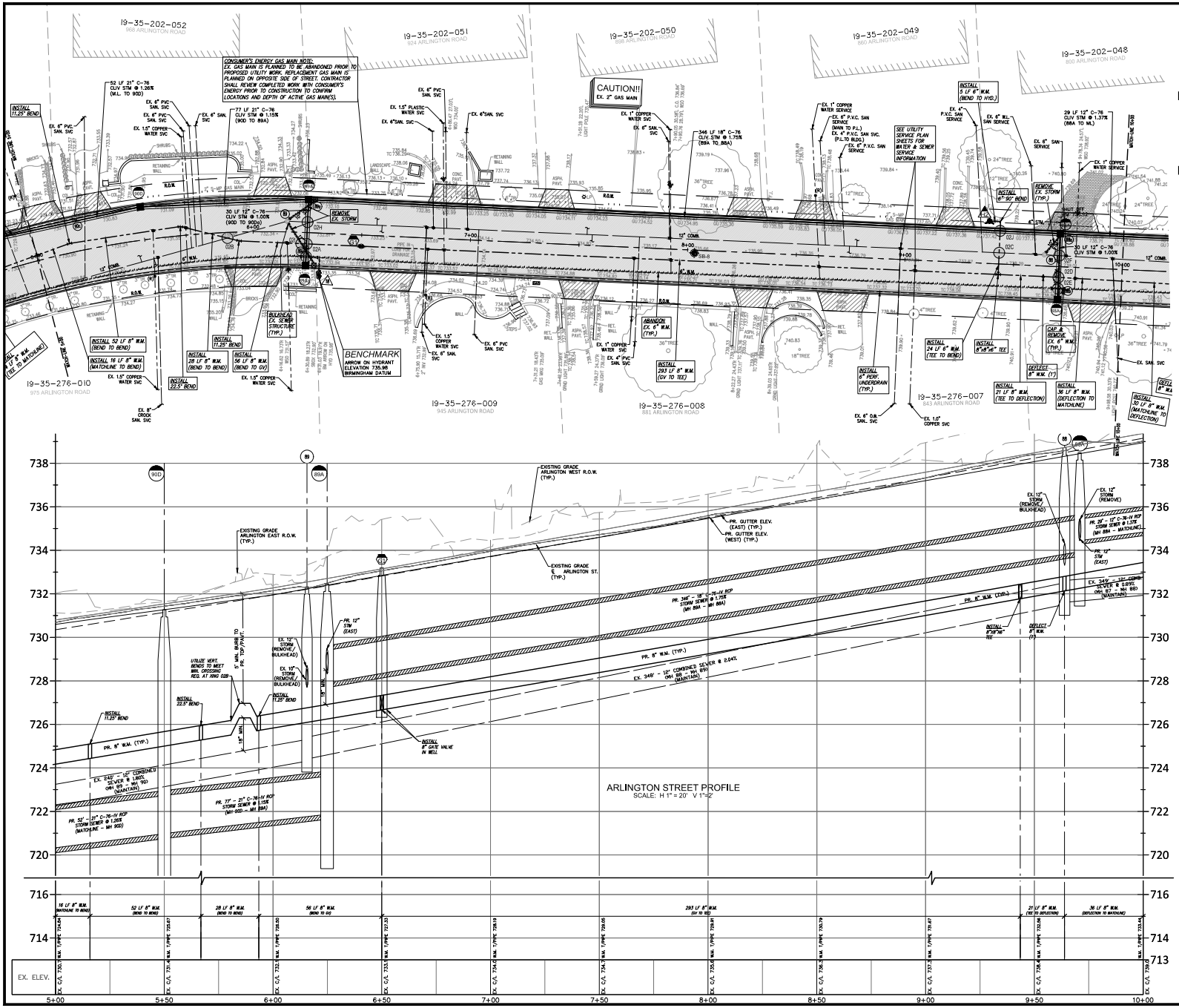
APPROVED DATE

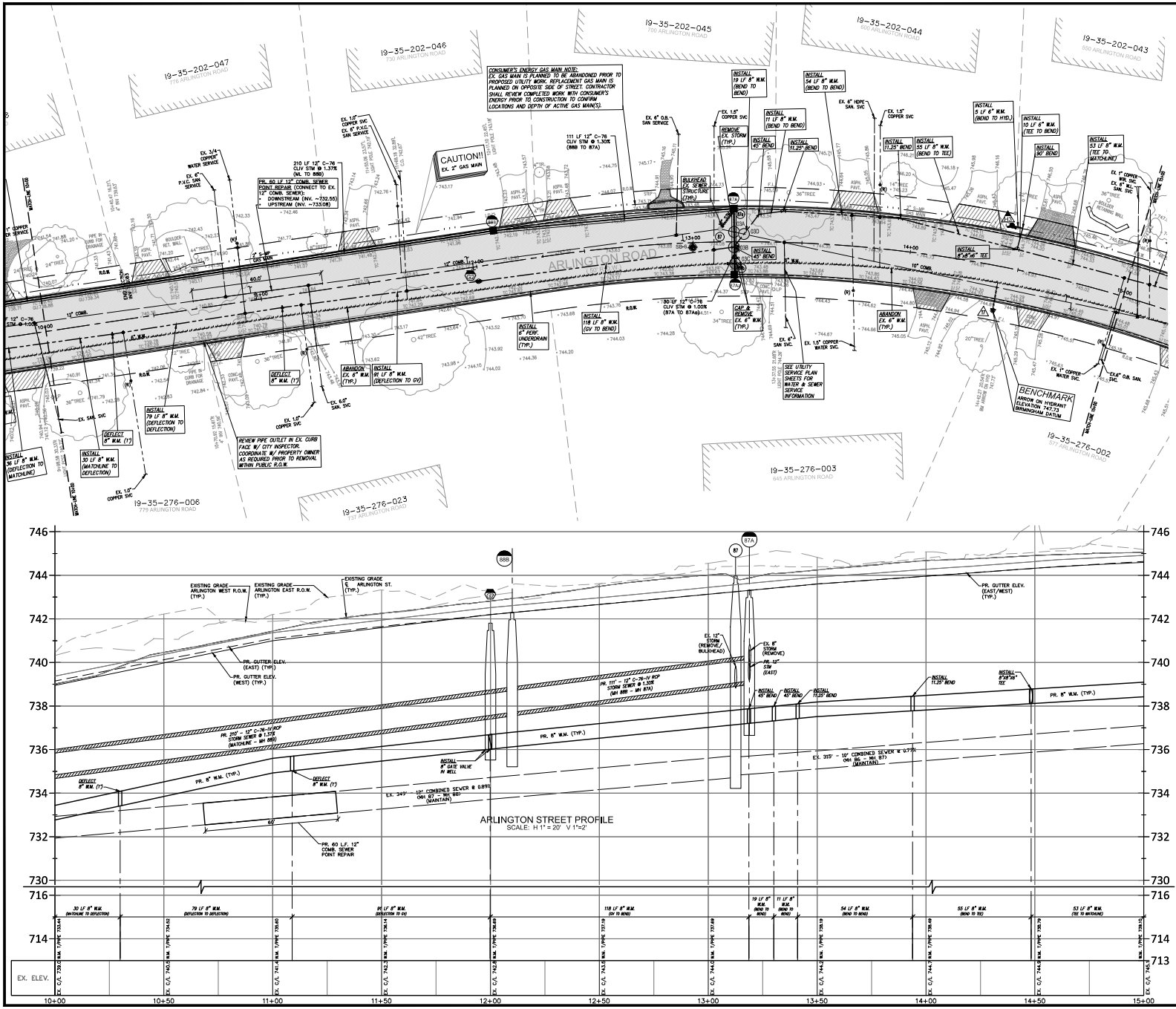
05-02-24 BIDS

ENGINEERING DEPARTMENT
ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

8F


CONSUMER'S ENERGY GAS MAIN NOTE:
EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).
CAUTION!! EX. 3" GAS MAIN
REMOVE APPROX. 20 LF EX. 8" W.M. (INCIDENTAL TO INSTALLATION OF PR. WATER MAIN)
INSTALL 24 LF 8" W.M. (CONNECTION TO BEND)
INSTALL 27 LF 8" W.M. (BEND TO BEND)
INSTALL 124 LF 8" W.M. (BEND TO BEND)
INSTALL 43 LF 8" W.M. (BEND TO TEE)
INSTALL 22.5° BEND
INSTALL 45° BEND
INSTALL 11.25° AND 22.5° BEND
CONNECT TO EX. 8" W.M.
BULKHEAD EX. SEWER STRUCTURE (TYP.)
INSTALL 5 LF 6" W.M. (BEND TO HYD.)
INSTALL 8" 90° BEND
INSTALL 15 LF 6" W.M. (TEE TO BEND)
INSTALL 8"x8"x6" TEE
INSTALL 94 LF 8" W.M. (TEE TO MATCHLINE)
19 LF 21" C-76 CLV STM @ 1.26% (90C TO M.L.)
30 LF 24" C-76 CLV STM @ 0.41% (90A TO 90B)
76 LF 24" C-76 CLV STM @ 0.41% (91C TO 91D)
80 LF 24" C-76 CLV STM @ 0.41% (91D TO 90A)
72 LF 24" C-76 CLV STM @ 0.41% (91B TAP TO 91C)
REMOVE EX. STORM
REMOVE EX. 24" STORM TAP/CONNECT PR. 24" STORM
REMOVE EX. 6" W.M. (TYP.)
ABANDON EX. 6" W.M. (TYP.)
CAP EX. 6" W.M. (TYP.)
INSTALL 6" PERF. UNDERDRAIN (TYP.)
SEE UTILITY SERVICE PLAN SHEETS FOR WATER & SEWER SERVICE INFORMATION
BENCHMARK ARROW ON HYDRANT ELEVATION 728.42 BIRMINGHAM DATUM
BENCHMARK MON. TIE ELEVATION 730.13 BIRMINGHAM DATUM
19-35-202-055
19-35-276-011
19-35-202-053
19-35-276-010
19-35-276-021
W. LINCOLN AVE. (ROW VARIES)
ARLINGTON ROAD
ARLINGTON ROAD (ROW VARIES)
NO WATER OR SAN. SVC. CARD RECORD INFO
EX. 1.0" COPPER WATER SVC (ASSUMED)
EX. 6.0" SAN. SVC.
EX. 1.0" COPPER WATER SVC
EX. 6" SAN. SVC.
EX. 15" CONCRETE MAIN SVC.
EX. 6" CONCRETE MAIN SVC.
EX. 4" SAN. SVC.
EX. 8" SAN. SVC.
EX. 4" SAN. SVC.
EX. 6" SAN. SVC.
EX. 8


19-35-202-052
996 ARLINGTON ROAD
19-35-202-051
924 ARLINGTON ROAD
19-35-202-050
890 ARLINGTON ROAD
19-35-202-049
860 ARLINGTON ROAD
19-35-202-048
800 ARLINGTON ROAD
19-35-276-010
975 ARLINGTON ROAD
19-35-276-009
945 ARLINGTON ROAD
19-35-276-008
881 ARLINGTON ROAD
19-35-276-007
843 ARLINGTON ROAD
CONSUMER'S ENERGY GAS MAIN NOTE:
EX. GAS MAIN IS PLANNED TO BE ABANDONED PRIOR TO PROPOSED UTILITY WORK. REPLACEMENT GAS MAIN IS PLANNED ON OPPOSITE SIDE OF STREET. CONTRACTOR SHALL REVIEW COMPLETED WORK WITH CONSUMER'S ENERGY PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS AND DEPTH OF ACTIVE GAS MAIN(S).
CAUTION!! EX. 2" GAS MAIN
SEE UTILITY SERVICE PLAN SHEETS FOR WATER & SEWER SERVICE INFORMATION
BENCHMARK
ARROW ON HYDRANT
ELEVATION 735.98
BIRMINGHAM DATUM
ARLINGTON STREET PROFILE
SCALE: H 1" = 20' V 1"=2'
EXISTING GRADE ARLINGTON WEST R.O.W. (TYP.)
EXISTING GRADE ARLINGTON EAST R.O.W. (TYP.)
EXISTING GRADE ARLINGTON ST. (TYP.)
PR. GUTTER ELEV. (EAST) (TYP.)
PR. GUTTER ELEV. (WEST) (TYP.)
PR. 8" W.M. (TYP.)
EX. 12" STORM (REMOVE/ BULKHEAD)
EX. 10" STORM (REMOVE/ BULKHEAD)
PR. 12" STM (EAST)
PR. 12" STM (EAST)
PR. 8" W.M. (CTR.)
PR. 8" GATE VALVE IN WELL
PR. 52' 21" C-76-IV RCP STORM SEWER @ 1.00% (MH 900 - MH 901)
PR. 77' - 21" C-76-IV RCP STORM SEWER @ 1.15% (MH 900 - MH 89A)
PR. 340' - 18" C-76-IV RCP STORM SEWER @ 1.75% (MH 89A - MH 88A)
PR. 25' - 8" C-76-IV RCP STORM SEWER @ 1.57% (MH 88A - MH 87)
EX. 640' - 15" COMBINED SEWER @ 1.90% (MH 901 - MH 90 (MAINTAIN))
EX. 348' - 12" COMBINED SEWER @ 2.04% (MH 89 - MH 89) (MAINTAIN)
EX. 349' - 10" COMB. SEWER @ 0.69% (MH 87 - MH 86) (MAINTAIN)
INSTALL 11.25° BEND
INSTALL 22.5° BEND
INSTALL 16 LF 8" W.M. (MATCHLINE TO MATCHLINE)
INSTALL 52 LF 8" W.M. (BEND TO BEND)
INSTALL 28 LF 8" W.M. (BEND TO BEND)
INSTALL 56 LF 8" W.M. (BEND TO GV)
INSTALL 293 LF 8" W.M. (GV TO TEE)
INSTALL 24 LF 8" W.M. (TEE TO BEND)
INSTALL 21 LF 8" W.M. (TEE TO DEFLECTION)
INSTALL 36 LF 8" W.M. (DEFLECTION TO MATCHLINE)
INSTALL 30 LF 8" W.M. (MATCHLINE TO DEFLECTION)
INSTALL 6" PERF. UNDERDRAIN (TYP.)
INSTALL 6"x6"x6" TEE
DEFLECT 8" W.M. (TYP.)
ABANDON EX. 6" W.M. (TYP.)
CAP & REMOVE EX. 6" W.M. (TYP.)
REMOVE EX. STORM
BULKHEAD EX. STORM STRUCTURE (TYP.)
INSTALL 6" 90° BEND
EX. 6" PVC SAN. SVC
EX. 1.5" COPPER WATER SVC
EX. 1" COPPER WATER SVC
EX. 6" PLASTIC WATER SVC
EX. 6" SAN. SVC
EX. 6" P.V.C. SAN SERVICE (MAIN TO P.L.)
EX. 6" P.V.C. SAN SVC. (P.L.TO BLDG.)
EX. 1" COPPER WATER SERVICE
EX. 4" P.V.C. SAN SERVICE
EX. 6" SAN SERVICE
EX. 4" STM.
EX. 12" STM.
EX. 10" COPPER SVC
EX. 6" DIA. SAN. SVC
EX. 8" CROCK SAN. SVC
EX. 6" SAN. SVC
EX. 6" PVC SAN. SVC
EX. 4" SAN. SVC
EX. 6" W.M.
EX. 4" W.M.
EX. 8" W.M.
EX. 12" W.M.
EX. 16" W.M.
EX. 6" GATE VALVE IN WELL
EX. 8" GATE VALVE IN WELL
EX. 12" GATE VALVE IN WELL
EX. 16" GATE VALVE IN WELL
EX. 6" 90° BEND
EX. 8" 90° BEND
EX. 12" 90° BEND
EX. 16" 90° BEND
EX. 6" TEE
EX. 8" TEE
EX. 12" TEE
EX. 16" TEE
EX. 6"x6" TEE
EX. 8"x8" TEE
EX. 12"x12" TEE
EX. 16"x16" TEE
EX. 6" CROSS
EX. 8" CROSS
EX. 12" CROSS
EX. 16" CROSS
EX. 6" 45° BEND
EX. 8" 45° BEND
EX. 12" 45° BEND
EX. 16" 45° BEND
EX. 6" 22.5° BEND
EX. 8" 22.5° BEND
EX. 12" 22.5° BEND
EX. 16" 22.5° BEND
EX. 6" 11.25° BEND
EX. 8" 11.25° BEND
EX. 12" 11.25° BEND
EX. 16" 11.25° BEND
EX. 6" REDUCER
EX. 8" REDUCER
EX. 12" REDUCER
EX. 16" REDUCER
EX. 6" CAP
EX. 8" CAP
EX. 12" CAP
EX. 16" CAP
EX. 6" PLUG
EX. 8" PLUG
EX. 12" PLUG
EX. 16" PLUG
EX. 6" COUPLING
EX. 8" COUPLING
EX. 12" COUPLING
EX. 16" COUPLING
EX. 6" SLEEVE
EX. 8" SLEEVE
EX. 12" SLEEVE
EX. 16" SLEEVE
EX. 6" VALVE BOX
EX. 8" VALVE BOX
EX. 12" VALVE BOX
EX. 16" VALVE BOX
EX. 6" VALVE
EX. 8" VALVE
EX. 12" VALVE
EX. 16" VALVE
EX. 6" HYDRANT
EX. 8" HYDRANT
EX. 12" HYDRANT
EX. 16" HYDRANT
EX. 6" HYD. GATE VALVE
EX. 8" HYD. GATE VALVE
EX. 12" HYD. GATE VALVE
EX. 16" HYD. GATE VALVE
EX. 6" HYD. 90° BEND
EX. 8" HYD. 90° BEND
EX. 12" HYD. 90° BEND
EX. 16" HYD. 90° BEND
EX. 6" HYD. TEE
EX. 8" HYD. TEE
EX. 12" HYD. TEE
EX. 16" HYD. TEE
EX. 6" HYD. 45° BEND
EX. 8" HYD. 45° BEND
EX. 12" HYD. 45° BEND
EX. 16" HYD. 45° BEND
EX. 6" HYD. 22.5° BEND
EX. 8" HYD. 22.5° BEND
EX. 12" HYD. 22.5° BEND
EX. 16" HYD. 22.5° BEND
EX. 6" HYD. 11.25° BEND
EX. 8" HYD. 11.25° BEND
EX. 12" HYD. 11.25° BEND
EX. 16" HYD. 11.25° BEND
EX. 6" HYD. REDUCER
EX. 8" HYD. REDUCER
EX. 12" HYD. REDUCER
EX. 16" HYD. REDUCER
EX. 6" HYD. CAP
EX. 8" HYD. CAP
EX. 12" HYD. CAP
EX. 16" HYD. CAP
EX. 6" HYD. PLUG
EX. 8" HYD. PLUG
EX. 12" HYD. PLUG
EX. 16" HYD. PLUG
EX. 6" HYD. COUPLING
EX. 8" HYD. COUPLING
EX. 12" HYD. COUPLING
EX. 16" HYD. COUPLING
EX. 6" HYD. SLEEVE
EX. 8" HYD. SLEEVE
EX. 12" HYD. SLEEVE
EX. 16" HYD. SLEEVE
EX. 6" HYD. VALVE BOX
EX. 8" HYD. VALVE BOX
EX. 12" HYD. VALVE BOX
EX. 16" HYD. VALVE BOX
EX. 6" HYD. VALVE
EX. 8" HYD. VALVE
EX. 12" HYD. VALVE
EX. 16" HYD. VALVE
EX. 6" HYD. HYDRANT
EX. 8" HYD. HYDRANT
EX. 12" HYD. HYDRANT
EX. 16" HYD.



EX SEWER STRUCTURE SCHEDULE

87 BULKHEAD & ADJUST
13+12.61 5.89'L.
COMB. MH 87
RIM 743.97
PR RIM 743.45
12" S. 734.72
10" NW. 738.82 (REMOVE/BULKHEAD)
10" NE. 734.72

EX STORM STRUCTURE SCHEDULE

87a REMOVE
13+18.83 15.00'L
CATCH BASIN 87a
RIM 743.27
12" SE. 739.07
8" E. 739.47

87b REMOVE
13+19.28 14.73'R
CATCH BASIN 87b
RIM 743.34
8" W. 740.19

EX WATER MAIN SCHEDULE

1 REMOVE
14+42.27 20.54'R
HYD 17
F.G. 747.73
PR. 8" GATE VALVE IN WELL
PR. DIA. 11'x8'x8' 6.76' R
PR. RIM 742.38
PR. T/PIPE 738.69

2 HYDRANT & ASSEMBLY
STA 14+43.62' 18.50' L
F.G. 745.93
PR. T/PIPE 740.00

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#87A PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 743.31 PR. 12" S. INV. 739.15 PR. 12" E. INV. 739.15
#87Aa PR. 2' DIA. STORM INLET	PR. RIM 743.31 PR. 12" W. INV. 739.45
#88B PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 742.29 PR. 12" S. INV. 737.71 PR. 12" N. INV. 737.71

UTILITY CROSSING SCHEDULE

03A PR. 12" STM B/P 739.08
EX. 10" COMB T/P 735.70

03B PR. 12" STM B/P 739.33
PR. 8" W.M. T/P 737.83

03C PR. 12" STM B/P 739.61
EX. 6" W.M. T/P (REMOVE)

03D PR. 8" W.M. B/P 737.06
EX. 10" COMB. T/P 735.74

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LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (6" MIN ON 8" 21AA)
PR. 10" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS
(RECORD) CURB STOP LOCATION (APPROX.)
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS
NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 10+00 to 15+00 (Arlington Road)

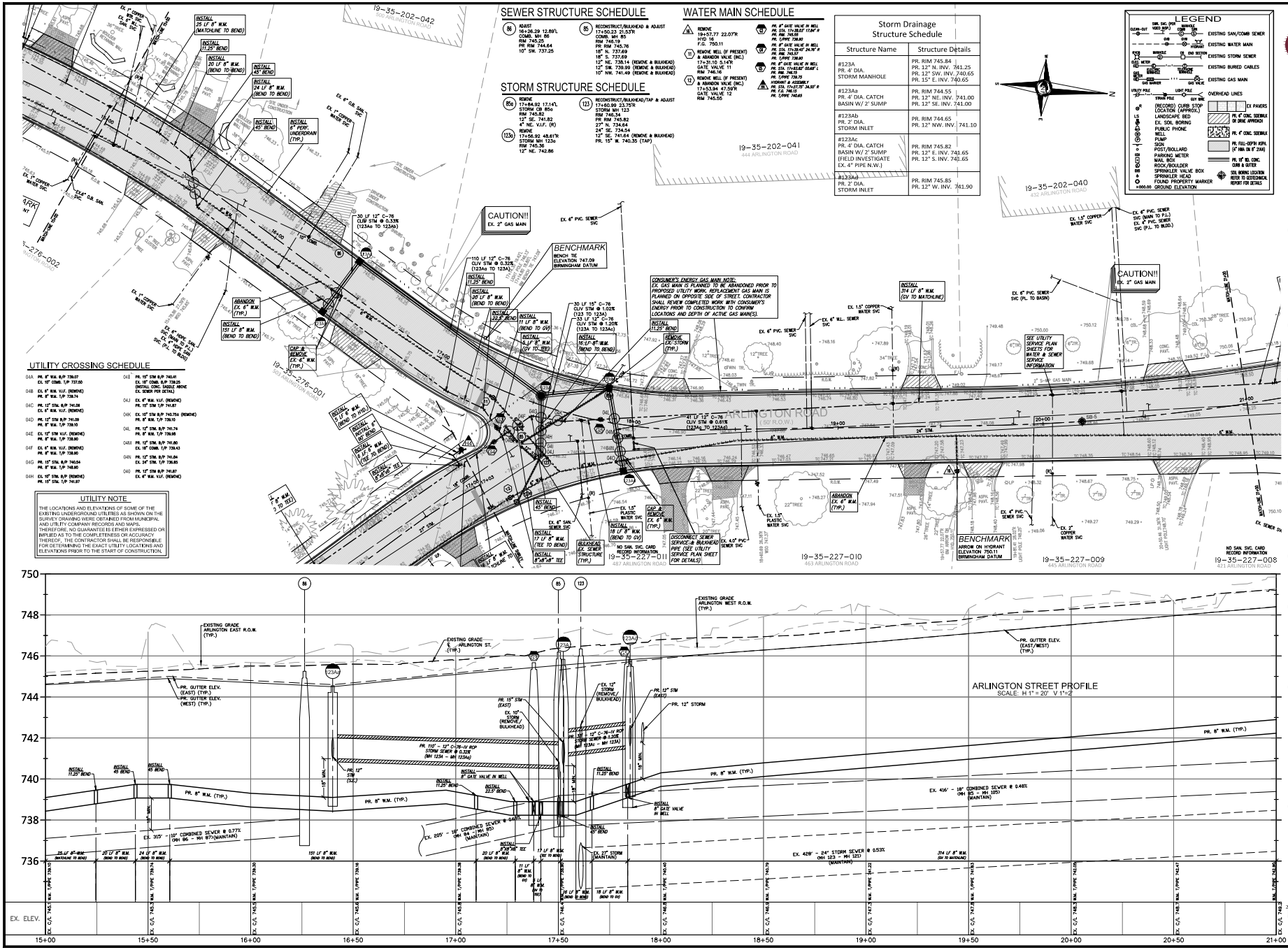
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C03

8F



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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 15+00 to 21+00 (Arlington Road)

Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

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NFE JOB NO. N758
SHEET NO. C04

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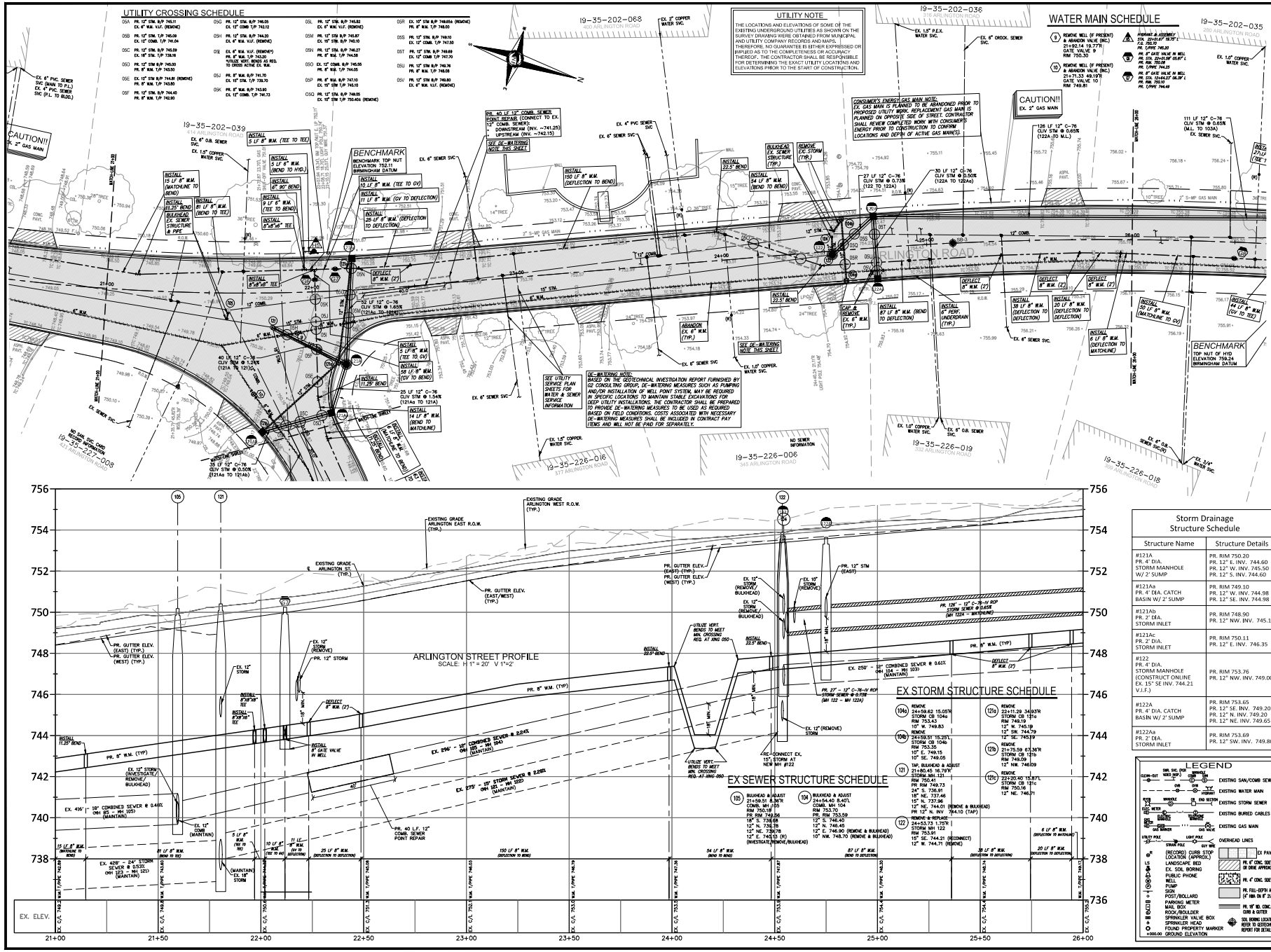

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#121A PR. 4' DIA. STORM MANHOLE W/ 2' SUMP	PR. RIM 750.20 PR. 12" E. INV. 744.60 PR. 12" W. INV. 745.50 PR. 12" S. INV. 744.60
#121Aa PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 749.10 PR. 12" W. INV. 744.98 PR. 12" SE. INV. 744.98
#121Ab PR. 2' DIA. STORM INLET	PR. RIM 748.90 PR. 12" NW. INV. 745.15
#121Ac PR. 2' DIA. STORM INLET	PR. RIM 750.11 PR. 12" E. INV. 746.35
#122 PR. 4' DIA. STORM MANHOLE (CONSTRUCT ONLINE EX. 15" SE INV. 744.21 V.I.F.)	PR. RIM 753.76 PR. 12" NW. INV. 749.00
#122A PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 753.65 PR. 12" SE. INV. 749.20 PR. 12" N. INV. 749.20 PR. 12" NE. INV. 749.65
#122Aa PR. 2' DIA. STORM INLET	PR. RIM 753.69 PR. 12" SW. INV. 749.80

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PROJECT LOCATION
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SHEET
Utility Plan Sta 21+00 to 26+00 (Arlington Road)

811
Know what's below
Call before you dig.

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03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

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APPROVED BY: B. Buchholz
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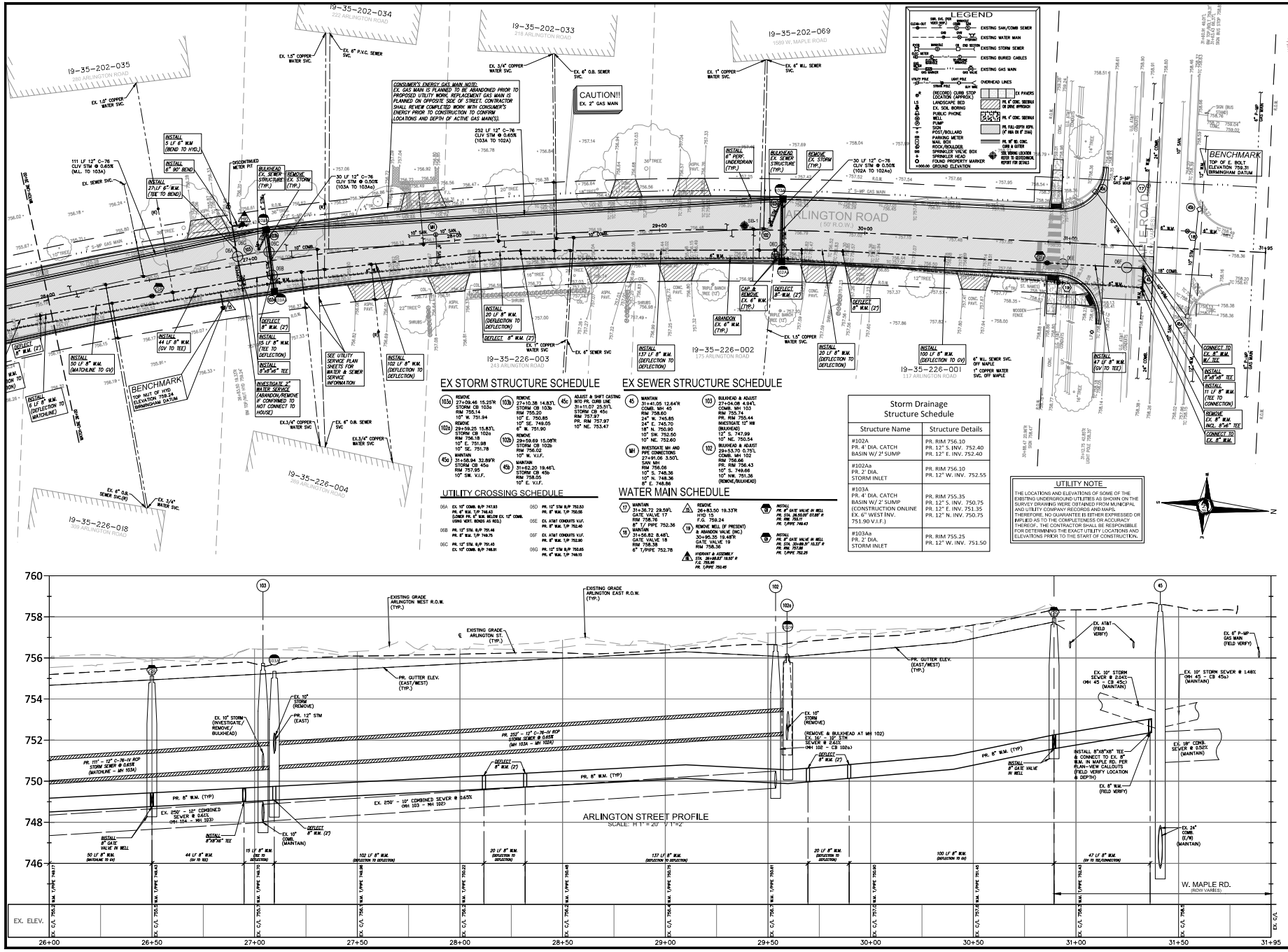
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C05

8F



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04-19-24	PERMITS
05-02-24	BIDS

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NFE JOB NO. N758
SHEET NO. C06

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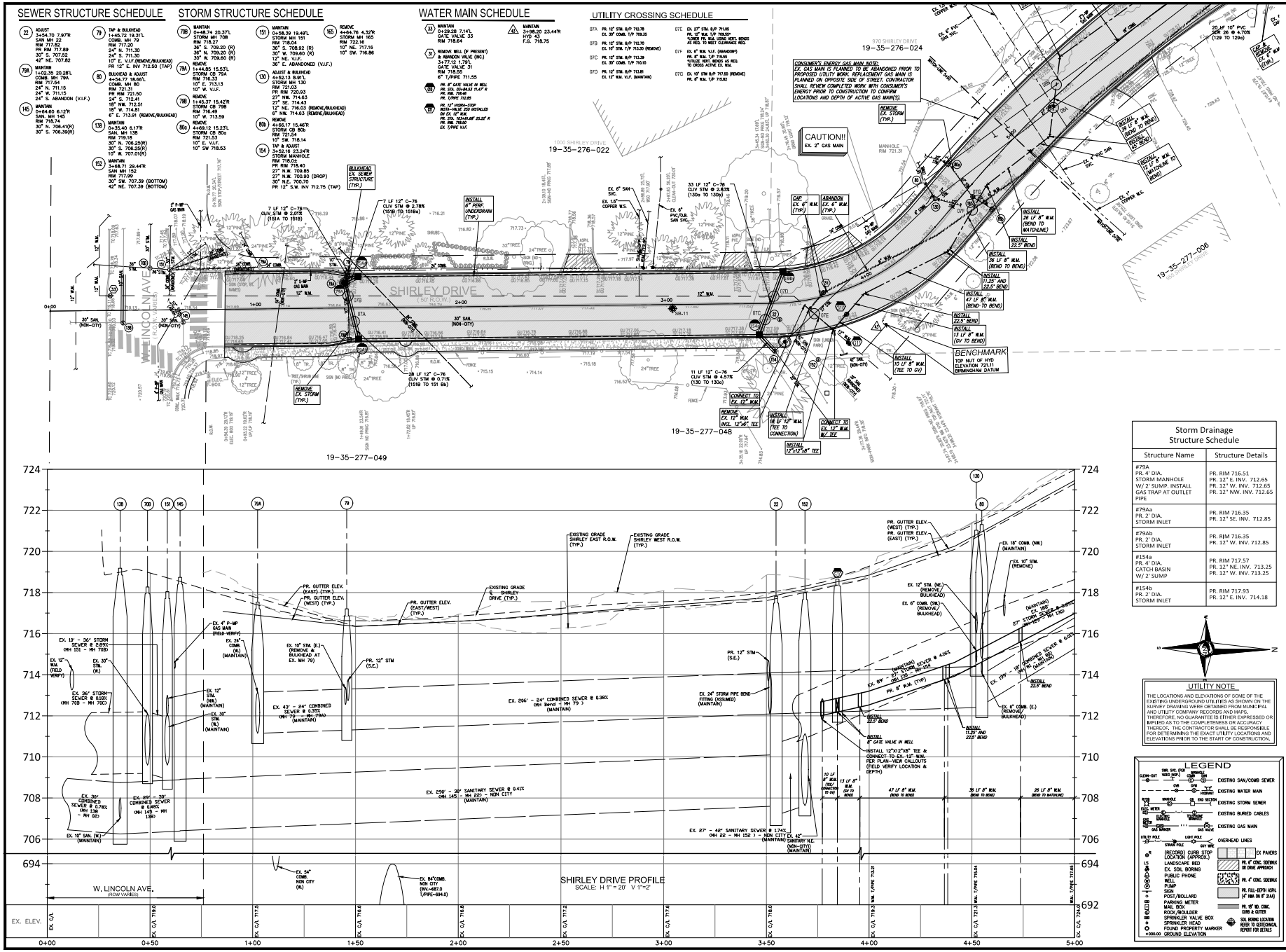

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#79A PR. 4' DIA. STORM MANHOLE W/ 2' SUMP, INSTALL GAS TRAP AT OUTLET PIPE	PR. RIM 716.51 PR. 12" E. INV. 712.65 PR. 12" W. INV. 712.65 PR. 12" NW. INV. 712.65
#79Aa PR. 2' DIA. STORM INLET	PR. RIM 716.35 PR. 12" SE. INV. 712.85
#79Ab PR. 2' DIA. STORM INLET	PR. RIM 716.35 PR. 12" W. INV. 712.85
#154a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 717.57 PR. 12" NE. INV. 713.25 PR. 12" W. INV. 713.25
#154b PR. 2' DIA. STORM INLET	PR. RIM 717.93 PR. 12" E. INV. 714.18

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EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
EX PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (4" MIN ON 6" STAB)
PR. 10" RD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta P.O.B to 5+00 (Shirley Drive - South)

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DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
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04-19-24	PERMITS
05-02-24	BIDS

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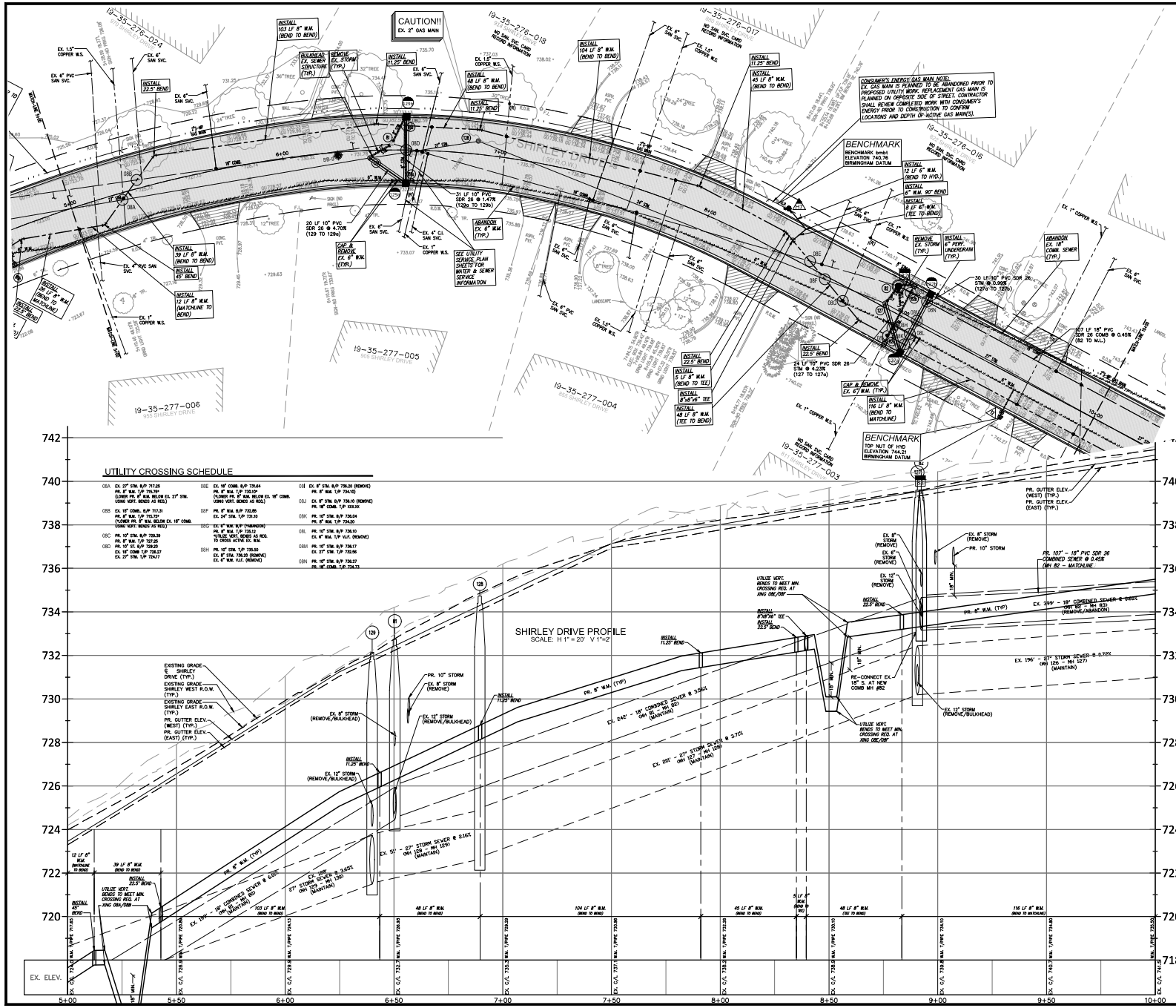
NFE JOB NO. N758
SHEET NO. C07

8F



EX SEWER STRUCTURE SCHEDULE

81 BULKHEAD & ADJUST
6+50.35 2.90'L
COMB. MH. 81
RIM 732.74
PR RIM 732.62
18" N. 724.54
18" S. 724.44
12" SE. 724.74 (REMOVE/BULKHEAD)
8" W. 727.84 (REMOVE/BULKHEAD)

82 REMOVE & REPLACE
8+92.41 11.56'L
COMB. MH. 82
RIM 739.46
18" N. 733.26 (REMOVE/ABANDON)
18" S. 733.16 (RECONNECT)
12" SE. 733.26
8" NW. 735.16
6" NE. 733.86

EX STORM STRUCTURE SCHEDULE

129 TAP, BULKHEAD & ADJUST
6+39.96 3.44'R
STORM MH 129
RIM 732.14
PR. RIM 732.10
27" NW. 721.54
12" NW. 724.14 (REMOVE/BULKHEAD)
27" SE. 721.49
PR. 10" N. INV 728.50

128 ADJUST
6+89.49 5.98'L
STORM MH 128
RIM 734.73
PR RIM 734.45
27" SE. 722.63
24" NE. 722.73

127 TAP, BULKHEAD & ADJUST
8+90.64 1.60'L
STORM MH 127
RIM 739.59
PR RIM 739.72
27" N. 730.19
24" S. 730.19
12" W. 730.59 (REMOVE/BULKHEAD)
PR. 10" NE. INV 735.00

82a REMOVE
8+96.92 14.85'R
STORM CB 82a
RIM 739.41
8" W. 736.11

81a REMOVE
8+56.91 15.46'R
STORM CB 81a
RIM 732.374
8" W. 729.07

82b REMOVE
8+96.70 14.97'L
STORM CB 82b
RIM 739.37
8" SW. 735.52
8" E. 736.27

81b REMOVE
6+56.01 14.75'L
STORM CB 81b
RIM 732.61
12" NE. 728.71
8" E 728.71

WATER MAIN SCHEDULE

V1 REMOVE
9+61.79 19.75'R
HYD 12
F.G. 741.24

A1 HYDRANT & ASSEMBLY
STA. 08+31.12' 19.50' L
F.G. 739.20
PR. T/PIPE 733.70

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Storm Drainage Structure Schedule

Structure Name	Structure Details
#127a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 739.69 PR. 10" SW. INV. 736.00 PR. 10" W. INV. 736.00
#127b PR. 2' DIA. STORM INLET	PR. RIM 739.80 PR. 10" E. INV. 736.30
#129a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 732.39 PR. 10" S. INV. 729.45 PR. 10" SW. INV. 729.00
#129b PR. 2' DIA. STORM INLET	PR. RIM 732.75 PR. 10" NE. INV. 729.45

Sanitary Structure Schedule

Structure Name	Structure Details
#82 PR. 4' DIA. COMB. MANHOLE (CONSTRUCT ONLINE EX. 18" S INV. 733.16, V.I.F.)	PR. RIM 739.61 PR. 18" N. INV. 733.16

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- x000.00 GROUND ELEVATION
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FILL-DEPTH ASPH. (4" MIN ON 6" STAB)
- PR. 10" RD. CONC. CURB & GUTTER
- SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

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PROJECT LOCATION
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SHEET
Utility Plan Sta 5+00 to 10+00 (Shirley Drive - South)

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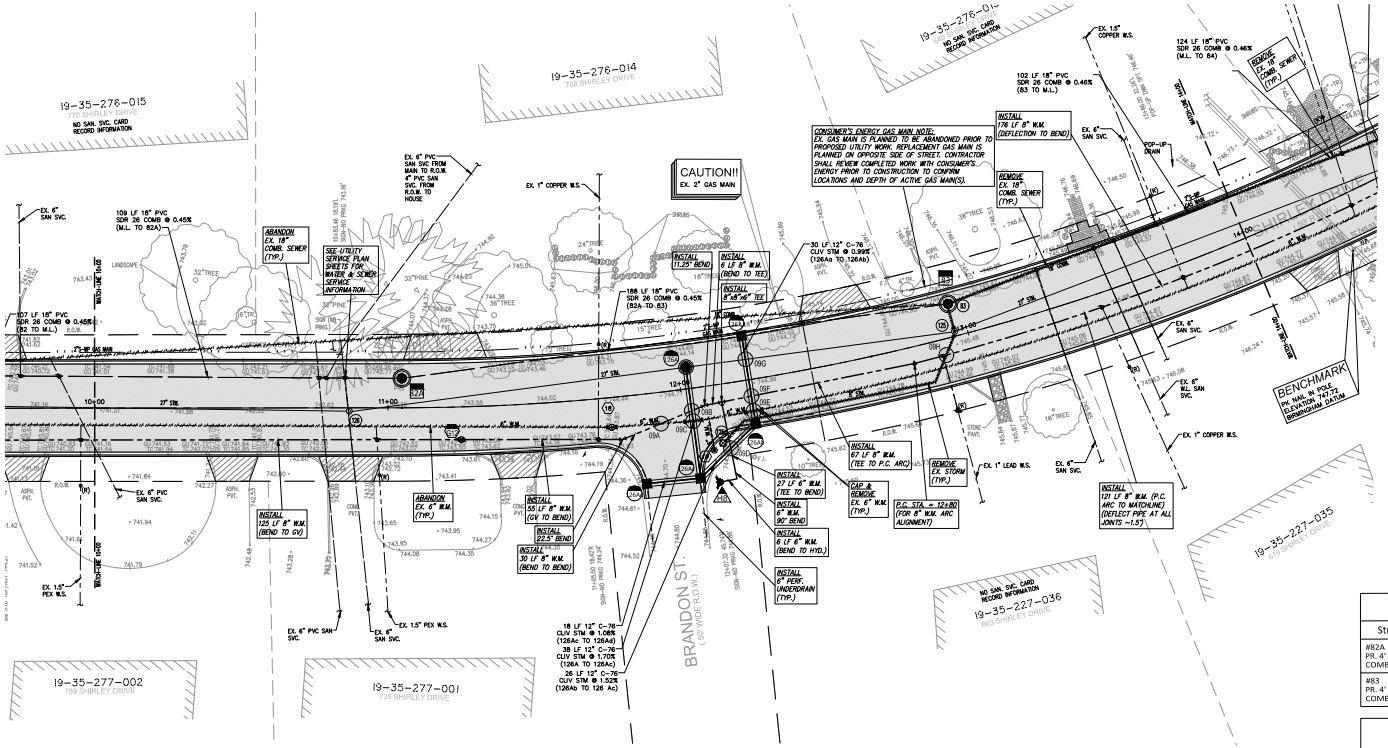
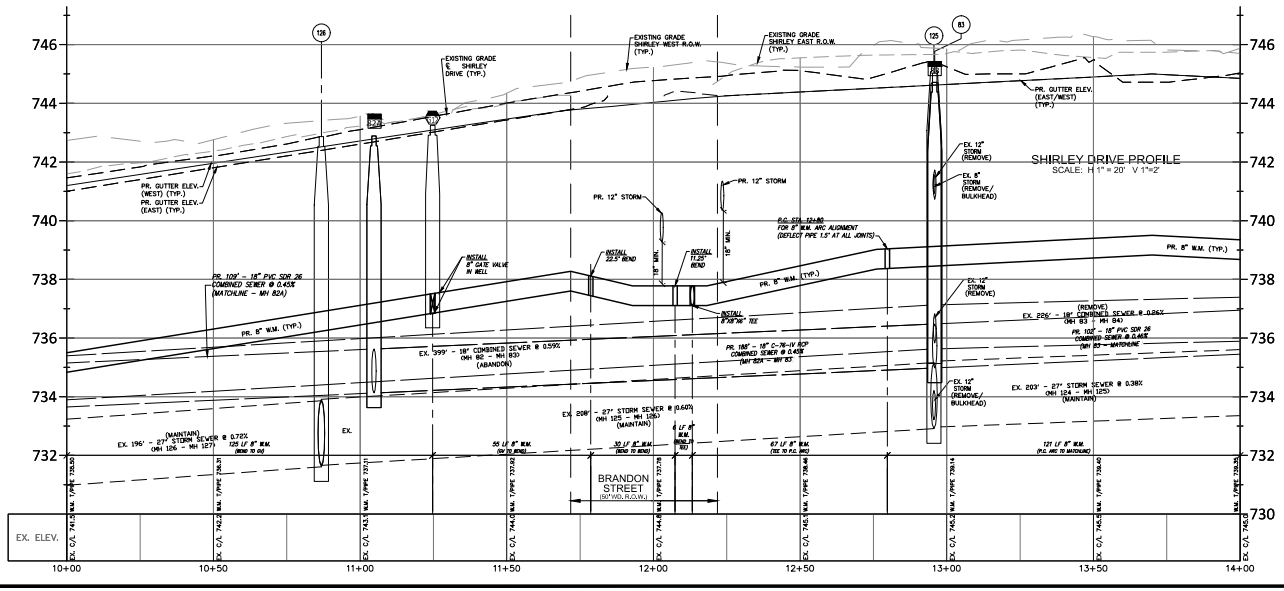
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C08

8F





Sanitary Structure Schedule	
Structure Name	Structure Details
#82A PR. 4' DIA. COMB. MANHOLE	PR. RIM 742.89 PR. 18" S. INV. 734.13 PR. 18" N. INV. 734.13
#83 PR. 4' DIA. COMB. MANHOLE	PR. RIM 744.71 PR. 18" S. INV. 734.98 PR. 18" NW. INV. 734.98

Storm Drainage Structure Schedule	
Structure Name	Structure Details
#126A PR. 5' DIA. STORM MANHOLE (CONSTRUCT ONLINE EX. 27" N/S INV. 732.35, V.I.F.)	PR. RIM 744.24 PR. 12" E. INV. 739.15
#126Aa PR. 2' DIA. STORM INLET	PR. RIM 744.25 PR. 12" E. INV. 740.50
#126Ab PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.25 PR. 12" W. INV. 740.20 PR. 12" SE. INV. 740.20
#126Ac PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.51 PR. 12" NW. INV. 739.80 PR. 12" W. INV. 739.80 PR. 12" S. INV. 739.80
#126Ad PR. 2' DIA. STORM INLET	PR. RIM 744.23 PR. 12" N. INV. 740.00

EX SEWER STRUCTURE SCHEDULE

(83) REMOVE & REPLACE
12+95.87 11.31'L
COMB MH 83
RIM 745.03
18" NE. 735.63 (REMOVE)
18" SW. 735.63 (ABANDON)
12" E. 735.83 (REMOVE)
12" SW. 740.73 (REMOVE)

EX STORM STRUCTURE SCHEDULE

(126) ADJUST
10+86.78 1.15'R
STORM MH 126
RIM 742.86
PR. RIM 742.75
27" N. 731.66
27" S. 731.61

(125) BULKHEAD & ADJUST
12+95.62 1.63'L
STORM MH 125
RIM 745.41
PR. RIM 744.91
27" N. 732.96
27" S. 732.91
12" W. 733.21 (REMOVE/BULKHEAD)
8" SE. 740.91 (REMOVE/BULKHEAD)

(125A) REMOVE
12+11.73 19.99'R
STORM CB 125a
RIM 744.33
8" NW. 743.43

EX WATER MAIN SCHEDULE

(18) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
11+75 10.12'R
PER RECORD (NOT FOUND)
GATE VALVE 18
RIM 744.10

(19) REMOVE WELL (IF PRESENT) & ABANDON VALVE (INC.)
12+08.47 22.01'R
GATE VALVE 19
RIM 744.36

(187) 6" GATE VALVE IN WELL
PR. STA. 12+04.23' 06.39'L
PR. INV. 743.17
PR. T/PIPE 737.50

HYDRANT & ASSEMBLY
STA. 13+35.55' 17.84L
F.G. 744.80
PR. T/PIPE 739.30

UTILITY CROSSING SCHEDULE

09A EX. 6" W.M. V.I.F. (ABANDON)
PR. 6" W.M. T/P 737.77
*UTILITY VERT. BENDS AS REQ. TO CROSS ACTIVE EX. W.M.

09B PR. 12" STM. B/P 739.41
PR. 6" W.M. T/P 737.77

09C PR. 12" STM. B/P 739.46
EX. 6" W.M. V.I.F. (REMOVE)

09D 12" STM. B/P 740.02
PR. 6" W.M. T/P 738.50

09E 12" STM. B/P 740.24
EX. 6" W.M. V.I.F. (REMOVE)

09F 12" STM. B/P 740.39
PR. 6" W.M. T/P 737.88

09G 12" STM. B/P 740.42
EX. 27" STM. T/P 734.73

09H EX. 8" STM. V.I.F. (REMOVE)
PR. 8" W.M. T/P 738.09

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- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FILL-DEPTH ASPH. (4" MIN. ON 6" 21AA)
- PR. 10" RD. CONC. CURB & GUTTER
- SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

NF ENGINEERS
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WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Plan Sta 10+00 to 14+00 (Shirley Drive - South)

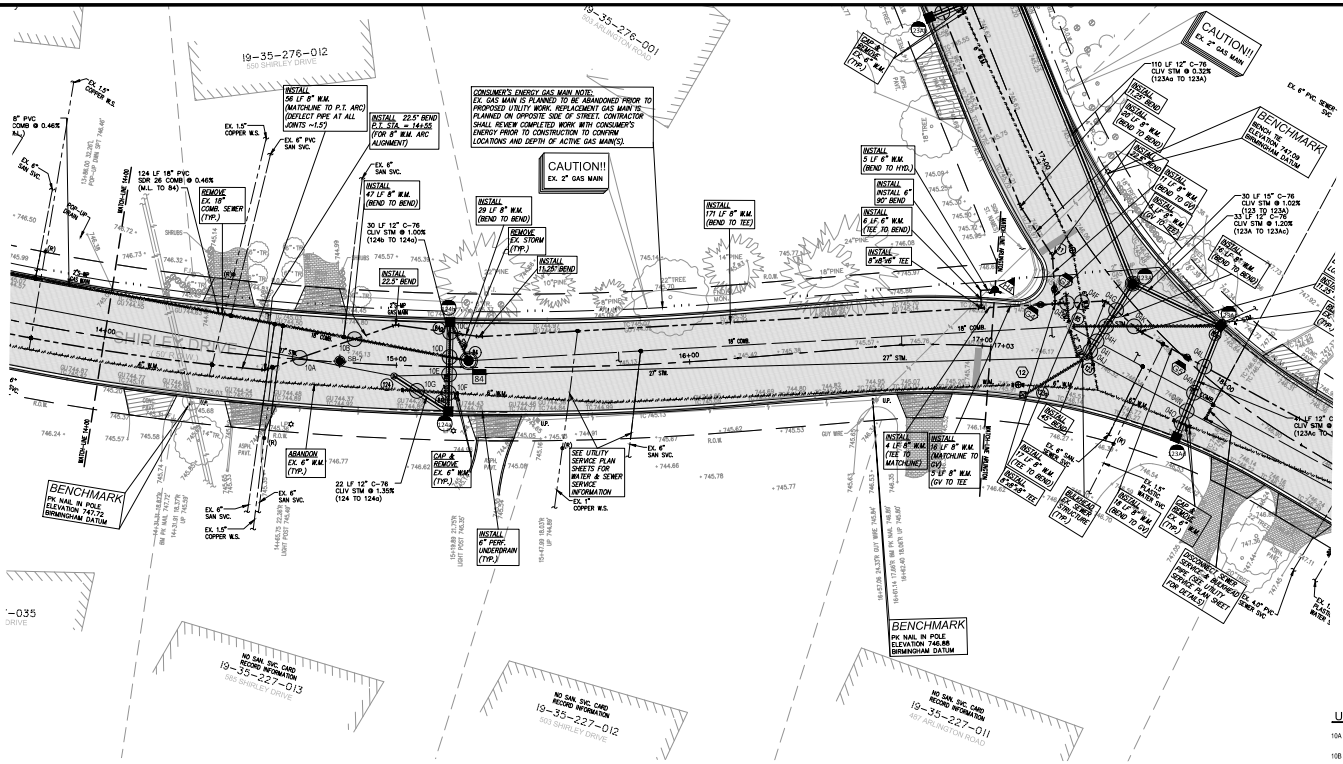
811 Know what's below Call before you dig.

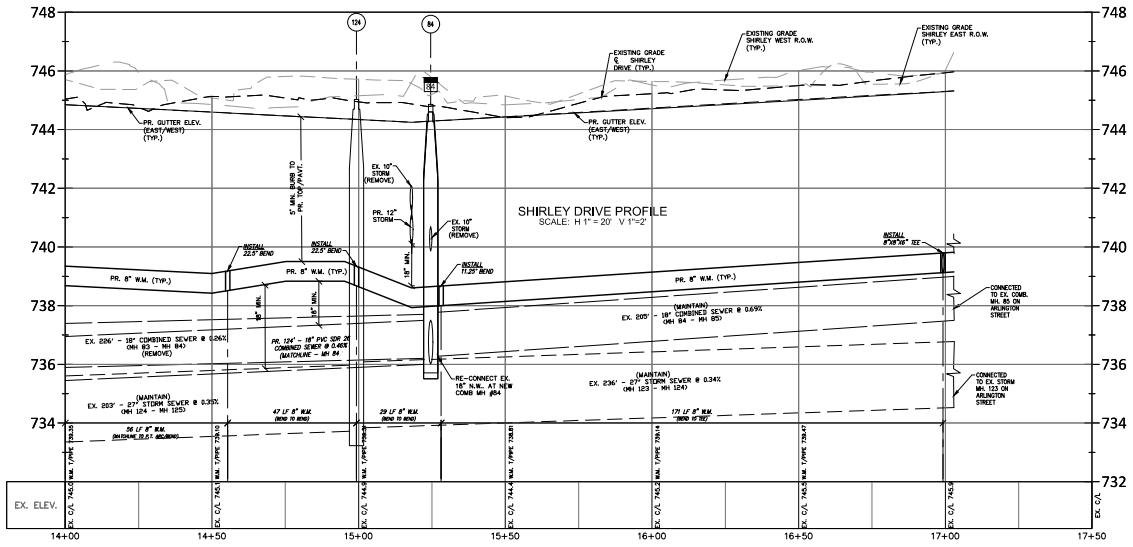
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C09

8F





UTILITY CROSSING SCHEDULE

10A	PR. 8" W.M. B/P 735.70 EX. 27" STM. T/P 735.86	10E	PR. 12" STM. B/P 740.07 EX. 27" STM T/P 736.20
10B	PR. 8" W.M. B/P 738.85 PR. 18" COMB. T/P 737.33	10F	PR. 12" STM. B/P 740.21 EX. 6" W.M. V.I.F. (REMOVE)
10C	PR. 12" STM. B/P 740.21 PR. 8" W.M. T/P 738.60	10G	PR. 12" STM. B/P 739.78 EX. 6" W.M. V.I.F. (REMOVE)
10D	PR. 12" STM. B/P 740.13 PR. 18" COMB. T/P 737.50		

Sanitary Structure Schedule

Structure Name	Structure Details
#84 PR. 4' DIA. COMB. MANHOLE (CONSTRUCT ONLINE EX. 18" NW INV. 736.26, V.I.F.)	PR. RIM 744.60 PR. 18" SE. INV. 736.01

Storm Drainage Structure Schedule

Structure Name	Structure Details
#124a PR. 4' DIA. CATCH BASIN W/ 2' SUMP	PR. RIM 744.30 PR. 12" S. INV. 739.95 PR. 12" SW. INV. 739.95
#124b PR. 2' DIA. STORM INLET	PR. RIM 744.30 PR. 12" NE. INV. 740.25

SEWER STRUCTURE SCHEDULE

(84) REMOVE & REPLACE
15+24.57 2.20'L
COMB. MH. 84
RIM 744.86
18" N. 736.26 (RECONNECT)
18" S. 736.21 (REMOVE)
12" E. 736.66 (REMOVE)
10" W. 739.86 (REMOVE)

STORM STRUCTURE SCHEDULE

(124) TAP & ADJUST
14+99.26 3.72'R
STORM MH. 124
RIM 745.03
PR. RIM 744.40
27" N. 733.83
27" S. 733.73
PR. 12" N. INV 739.65 (TAP)

(84a) REMOVE
15+17.88 15.16'L
STORM CB 84a
RIM 744.44
10" E. 740.54
10" NE. 740.44

(84b) REMOVE
15+18.05 14.78'R
STORM CB 84b
RIM 744.28
10" N. 741.96

UTILITY NOTE

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- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
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- WELL
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- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
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- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- x000.00 GROUND ELEVATION
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FILL-DEPTH ASPH. (4" MIN ON 6" STAB.)
- PR. 10" RD. CONC. CURB & GUTTER
- SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

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NFE JOB NO. N758
SHEET NO. C10

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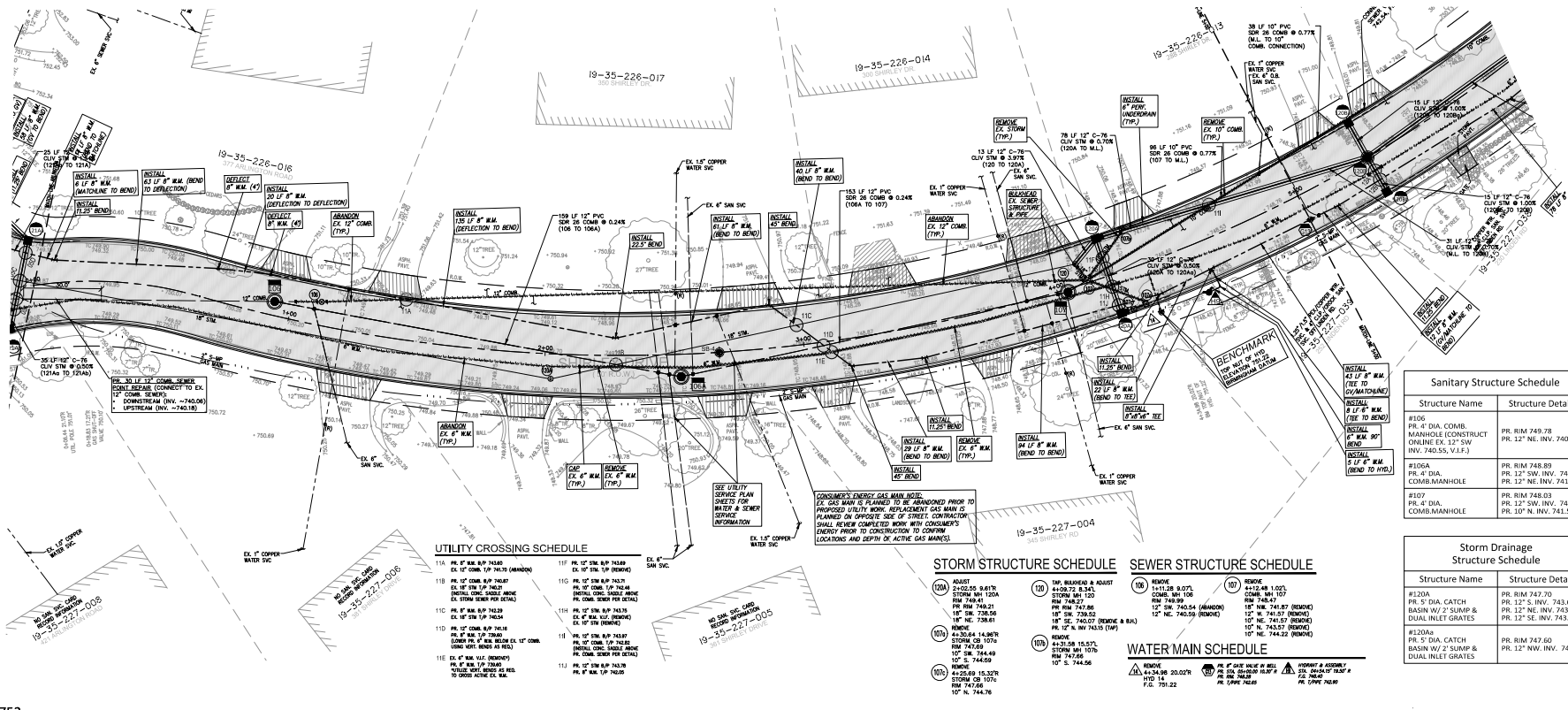

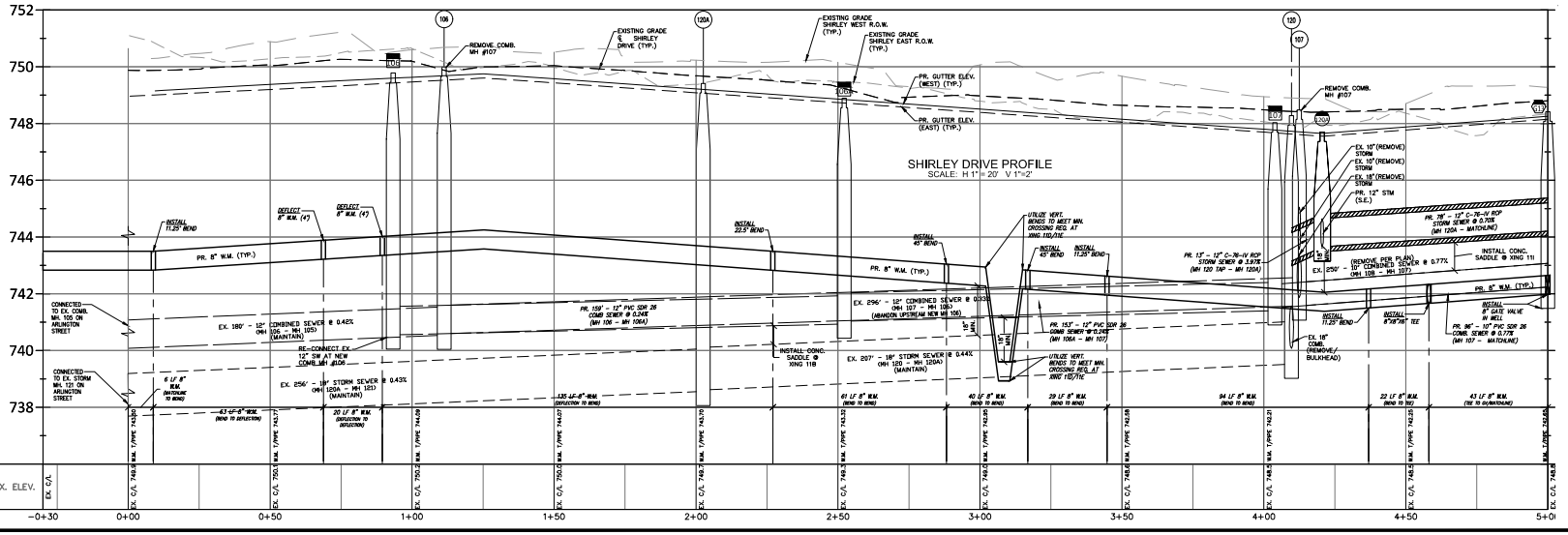

Sanitary Structure Schedule

Structure Name	Structure Details
#106 PR. 4' DIA. COMB. MANHOLE (CONSTRUCT ONLINE EX. 12" SW INV. 740.55, V.I.F.)	PR. RIM 749.78 PR. 12" NE. INV. 740.55
#106A PR. 4' DIA. COMB.MANHOLE	PR. RIM 748.89 PR. 12" SW. INV. 740.93 PR. 12" NE. INV. 741.03
#107 PR. 4' DIA. COMB.MANHOLE	PR. RIM 748.03 PR. 12" SW. INV. 741.40 PR. 10" N. INV. 741.50

Storm Drainage Structure Schedule

Structure Name	Structure Details
#120A PR. 5' DIA. CATCH BASIN W/ 2' SUMP & DUAL INLET GRATES	PR. RIM 747.70 PR. 12" S. INV. 743.65 PR. 12" NE. INV. 743.65 PR. 12" SE. INV. 743.65
#120Aa PR. 5' DIA. CATCH BASIN W/ 2' SUMP & DUAL INLET GRATES	PR. RIM 747.60 PR. 12" NW. INV. 743.80

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04-19-24	PERMITS
05-02-24	BIDS

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DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
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SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C11

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EXISTING STORM SEWER
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EXISTING GAS MAIN
OVERHEAD LINES
DECIDUOUS SHRUB STEM LOCATION (APPROX.)
LANDSCAPE MOUND
EX. SOIL BORING
PUBLIC PHONE
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
CV PAVERS
PR. 6" CONC. SIDEWALK OR BRICK APPROACH
PR. 6" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. 8" MIN ON 9" STONE
PR. 18" WD. CONC. CURB & GUTTER
SOIL BORING LOCATION REFER TO GEOTECHNICAL REPORT FOR DETAILS

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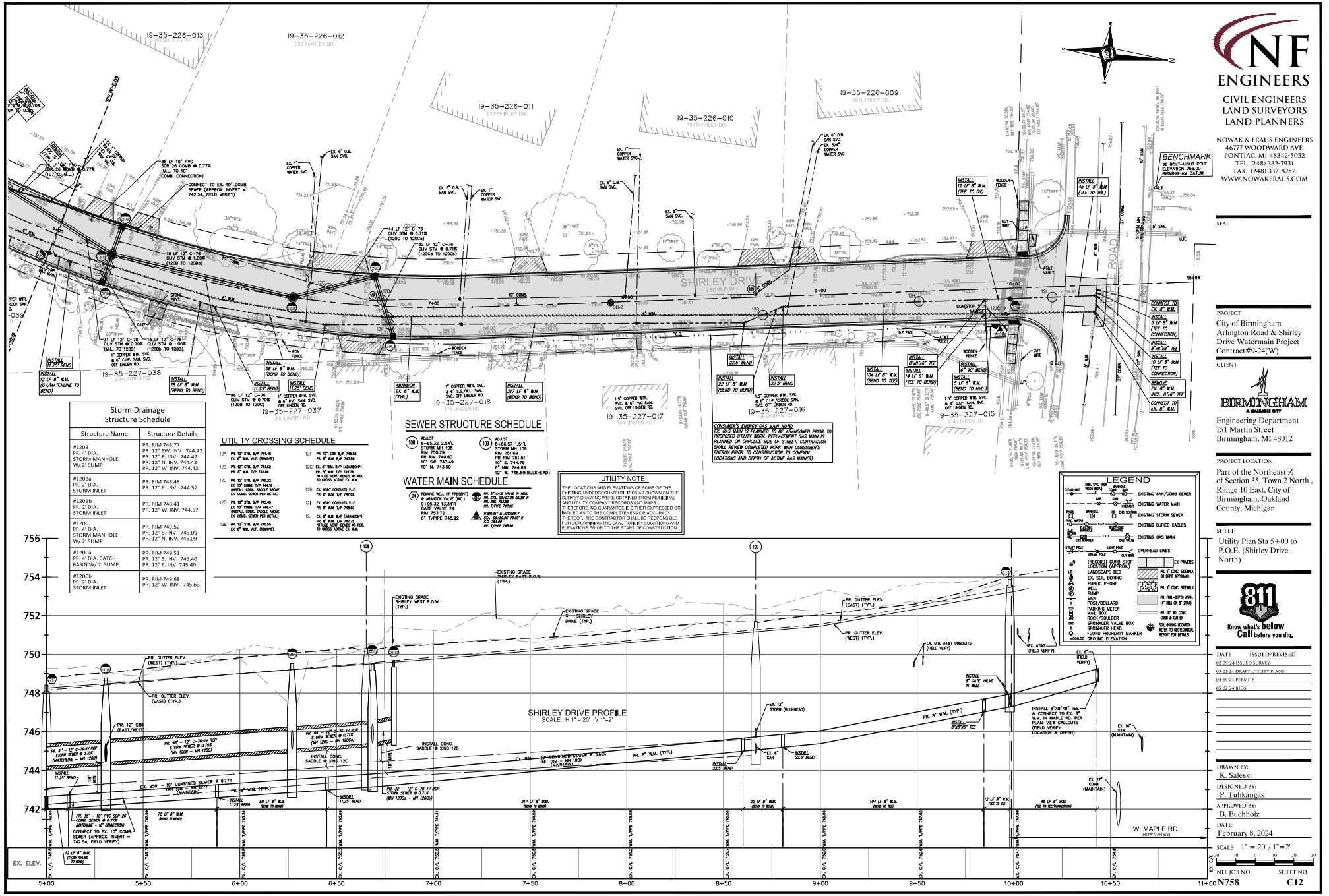

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03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
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DATE: February 8, 2024
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NFE JOB NO. N758
SHEET NO. C12

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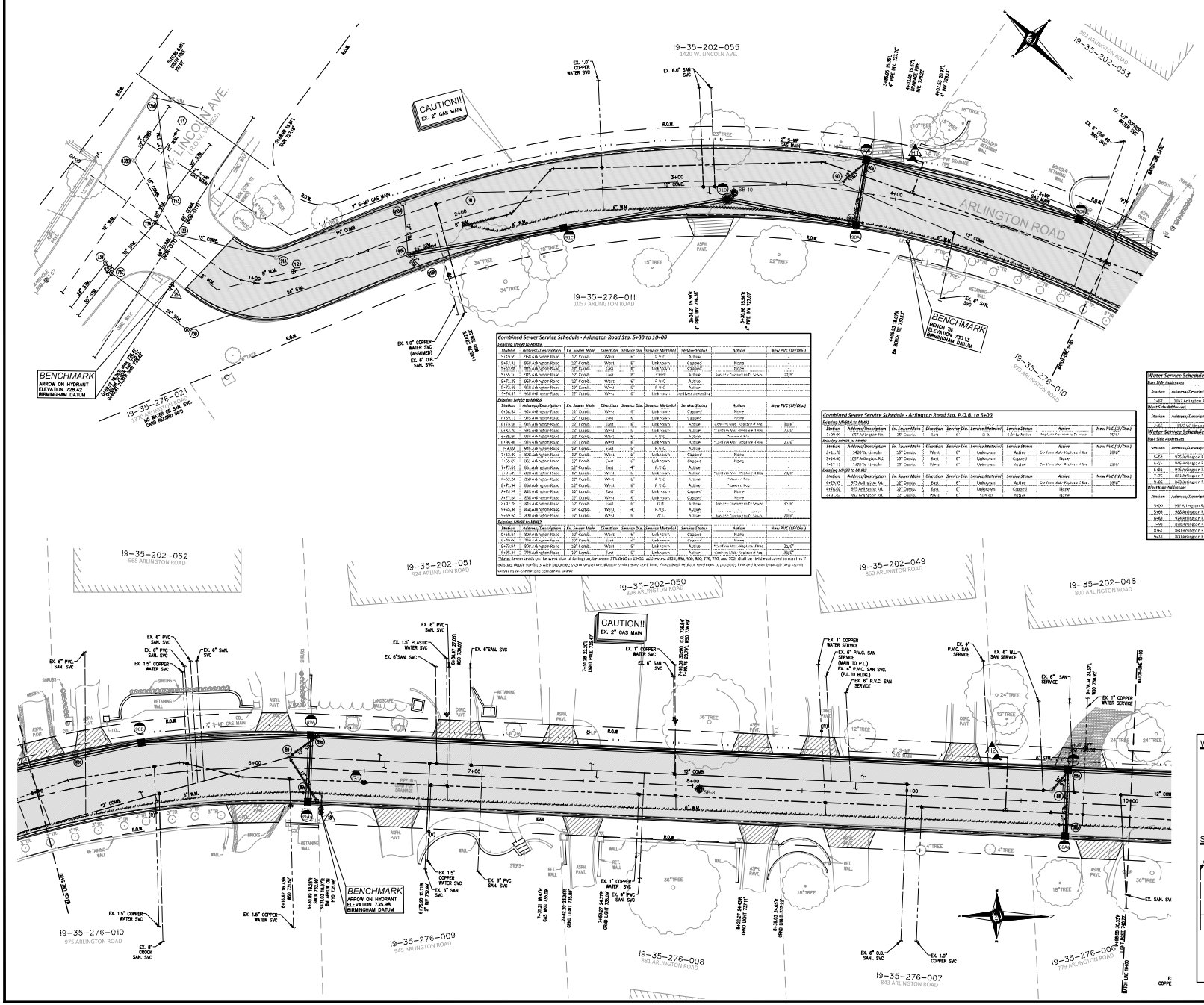

Combined Sewer Service Schedule - Arlington Road Sta. 5+00 to 10+00

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
5+13.93	968 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+47.31	968 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
5+52.08	975 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
5+56.10	975 Arlington Road	12" Comb.	East	6"	Clayp	Active	Replace Existing to Town	170'
5+71.28	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+73.45	908 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
5+76.15	908 Arlington Road	12" Comb.	West	6"	Unknown	Active (abandon)	-	-

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
6+56.56	924 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
6+59.17	975 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
6+73.56	945 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Main, Replace if Req.	70/6"
6+80.76	935 Arlington Road	12" Comb.	West	6"	Unknown	Active	Confirm Main, Replace if Req.	75/6"
6+96.86	924 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	-	-
6+96.86	924 Arlington Road	12" Comb.	West	6"	Unknown	Active	Confirm Main, Replace if Req.	25/6"
7+13.60	945 Arlington Road	12" Comb.	East	6"	P.V.C.	Active	-	-
7+52.39	908 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
7+52.49	861 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
7+71.61	861 Arlington Road	12" Comb.	East	4"	P.V.C.	Active	-	-
7+91.24	898 Arlington Road	12" Comb.	West	6"	Unknown	Active	Confirm Main, Replace if Req.	25/6"
8+03.32	898 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	Repair if Req.	-
8+71.94	861 Arlington Road	12" Comb.	West	6"	P.V.C.	Active	Repair if Req.	-
8+72.79	861 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
8+77.56	898 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
9+97.94	843 Arlington Road	12" Comb.	East	6"	D.I.	Active	Replace if Required to Town	120/6"
9+25.24	856 Arlington Road	12" Comb.	West	4"	P.V.C.	Active	-	-
9+55.52	856 Arlington Road	12" Comb.	West	6"	W.L.	Active	Replace if Required to Town	200/6"

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
9+68.56	830 Arlington Road	12" Comb.	West	6"	Unknown	Capped	None	-
9+79.06	779 Arlington Road	12" Comb.	East	6"	Unknown	Capped	None	-
9+25.24	806 Arlington Road	12" Comb.	West	6"	Unknown	Active	*Confirm Main, Replace if Req.	25/6"
9+95.37	779 Arlington Road	12" Comb.	East	6"	Unknown	Active	Confirm Main, Replace if Req.	30/6"

Note: Sewer leads on the west side of Arlington, between STA 6+00 to 10+50 (addresses: 830, 856, 900, 830, 779, 730, and 700) shall be field evaluated to confirm if existing depth conflicts with proposed storm sewer and whether shallow, with curb box, if required, replace structure to adjacent MH and lead between new MH00 to re-connect to combined sewer.

Combined Sewer Service Schedule - Arlington Road Sta. P.O.B. to 5+00

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
1+97.04	1057 Arlington Rd.	15" Comb.	East	6"	D.I.	Likely Active	Replace if Required to Town	35/6"

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
2+11.78	1420 W. Lincoln	15" Comb.	West	6"	Unknown	Active	Confirm Main, Replace if Req.	70/6"
2+14.40	1057 Arlington Rd.	15" Comb.	East	6"	Unknown	Capped	None	-
2+17.14	1420 W. Lincoln	15" Comb.	West	6"	Unknown	Active	Confirm Main, Replace if Req.	75/6"

Existing MH00 to MH01

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
4+25.95	975 Arlington Rd.	12" Comb.	East	6"	Unknown	Active	Confirm Main, Replace if Req.	30/6"
4+76.01	975 Arlington Rd.	12" Comb.	East	6"	Unknown	Capped	None	-
4+91.45	901 Arlington Rd.	12" Comb.	West	6"	Unknown	Active	None	-

Water Service Schedule - Arlington Road Sta. P.O.B. to 5+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
1+57	1057 Arlington Rd.	1" Copper	N/A	N/A	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
2+40	1420 W. Lincoln	1" Copper	0	1"	N

Water Service Schedule - Arlington Road Sta. 5+00 to 10+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+56	975 Arlington Rd.	1.5" Copper	77'/1.5"	1.5"	N
6+35	945 Arlington Rd.	1.5" Copper	77'/1.5"	1.5"	N
6+85	945 Arlington Rd.	1.5" Copper	77'/1.5"	1.5"	N
7+70	881 Arlington Rd.	1" Copper	71'/1"	1"	N
8+05	843 Arlington Rd.	1" Copper	61'/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
5+00	987 Arlington Rd.	1" Copper	0	1"	N
5+68	968 Arlington Rd.	1.5" Copper	0	1.5"	N
6+68	924 Arlington Rd.	1" Plastic	0	1.5"	N
7+93	898 Arlington Rd.	1" Copper	0	1"	N
8+63	843 Arlington Rd.	1" Copper	0	1"	N
9+38	830 Arlington Rd.	1" Copper	0	1"	N

WATER SERVICE LEGEND

- EX. WATER SERVICE (SHOWN PER RECORD, SIZE & MATERIAL VARIES – SEE SCHEDULE)
- EX. OR PR. WATER MAIN
- WATER SERVICE CONNECTION AT MAIN – INSTALL WATER SERVICE (1" MIN. DIA. WITHIN PUBLIC R.O.W. – SEE SCHEDULE)
- R.O.W. (TYP.)
- EX. STOP-BOX NEAR R.O.W. LIMITS (SHOWN PER RECORD (R))
- INSTALL REPLACEMENT CURB STOP & BOX (WHERE REQ.) FOR NEW WATER SERVICE & RE-CONNECT EX. LINE

SANITARY SERVICE LEGEND

- EX. SANITARY SERVICE (PER RECORD–"ACTIVE")
- EX. OR PR. SEWER MAIN
- PR. SANITARY SERVICE TAP AT NEW MAIN OR CONNECTION TO EX. MAIN (SEE SCHEDULE)
- INSTALL PR. SANITARY SERVICE REPLACEMENT USING MIN. 6" DIA. PVC SDR 23.5 PIPE WITHIN PUBLIC R.O.W (OR PER SCHEDULE) & RE-CONNECT AT R.O.W.
- R.O.W. (TYP.)
- EX. SANITARY SERVICE TAP AT MAIN (PER VIDEO INSPECTION)
  - "LIKELY ACTIVE" OR
  - "NOT ACTIVE–CAPPED"

COORDINATE W/ CITY TO PERFORM FIELD INVESTIGATION (PER "EACH" PAY ITEM) AS REQUIRED TO CONFIRM "LIKELY ACTIVE" CONNECTIONS ARE ACTIVE. IF ACTIVE, REVIEW PIPE MATERIAL TO DETERMINE EXTENT OF REPLACEMENT REQUIRED AND CONNECTION REQUIREMENTS AT SEWER MAIN.

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DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
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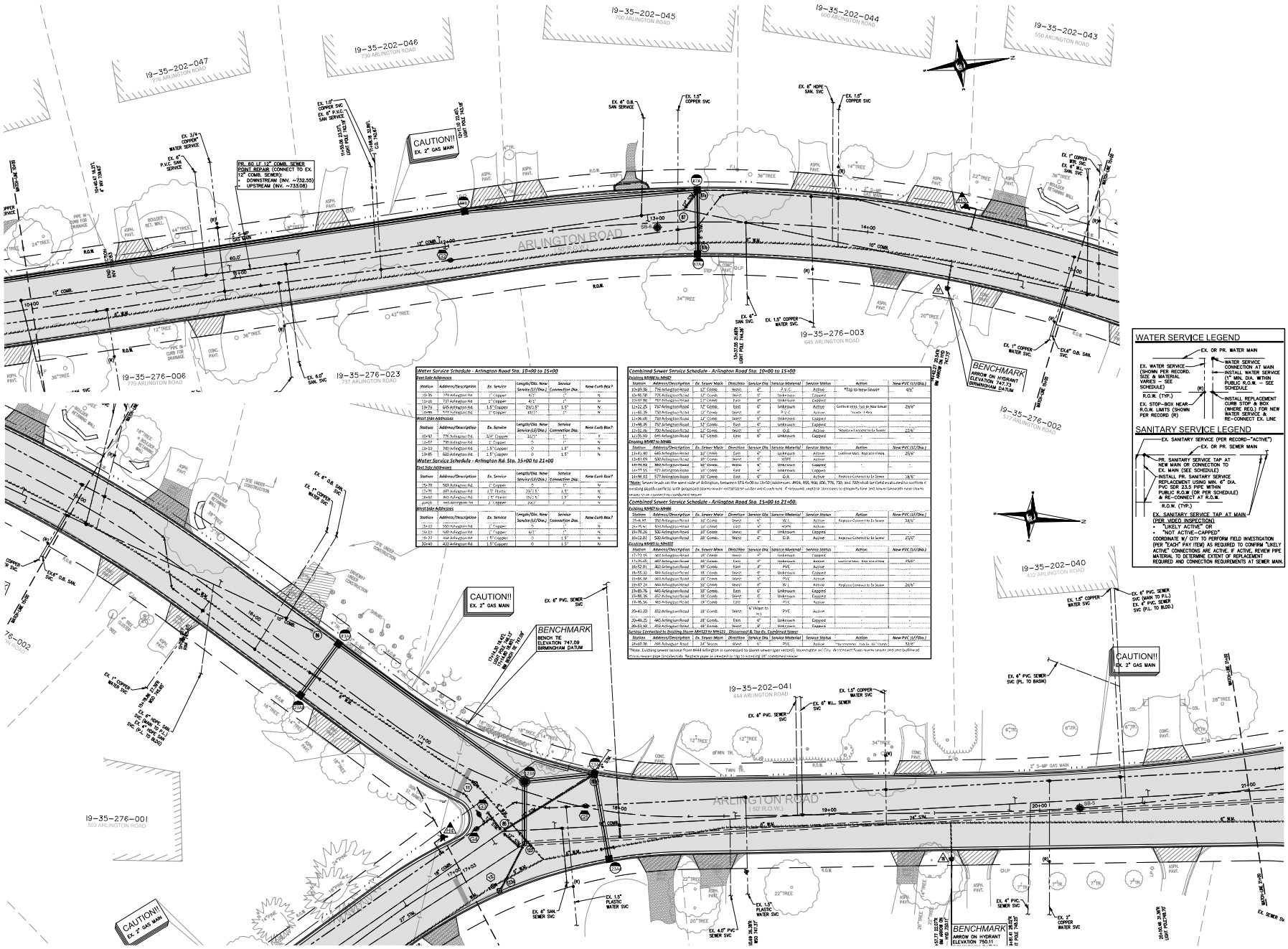
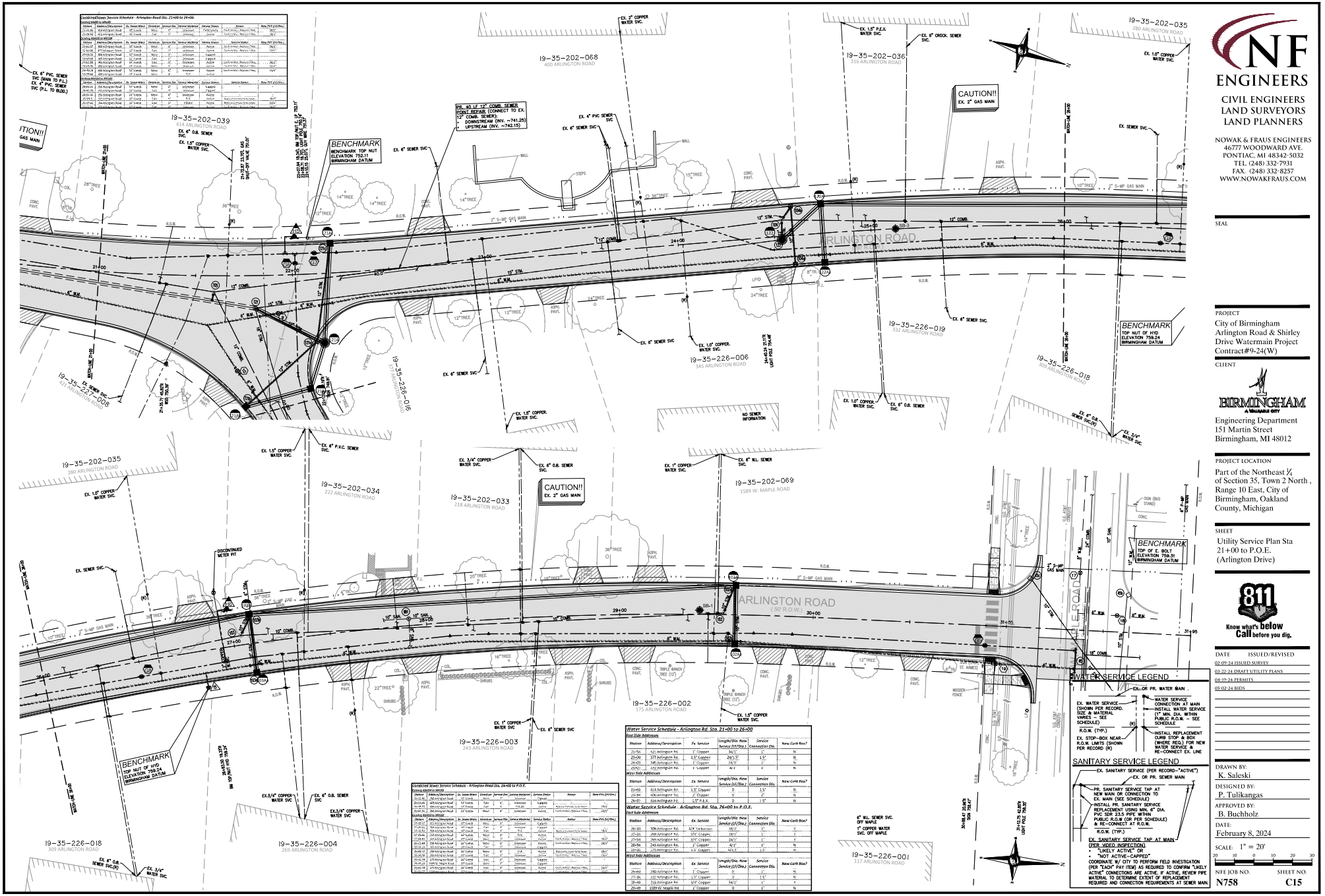

19-35-202-047
775 ARLINGTON ROAD
19-35-202-046
730 ARLINGTON ROAD
19-35-202-045
700 ARLINGTON ROAD
19-35-202-044
600 ARLINGTON ROAD
19-35-202-043
550 ARLINGTON ROAD
19-35-276-006
779 ARLINGTON ROAD
19-35-276-023
737 ARLINGTON ROAD
19-35-276-003
645 ARLINGTON ROAD
19-35-276-002
577 ARLINGTON ROAD
19-35-202-040
432 ARLINGTON ROAD
19-35-202-041
444 ARLINGTON ROAD
19-35-276-001
505 ARLINGTON ROAD
ARLINGTON ROAD
(50' R.O.W.)
CAUTION!! EX. 2" GAS MAIN
BENCHMARK
ARROW ON HYDRANT
ELEVATION 747.73
BIRMINGHAM DATUM
BENCHMARK
BENCH TIE
ELEVATION 747.09
BIRMINGHAM DATUM
BENCHMARK
ARROW ON HYDRANT
ELEVATION 750.11
FR. 80 LF 12" COMB. SEWER POINT REPAIR (CONNECT TO EX. 12" COMB. SEWER)
+ DOWNSTREAM (INV. ~732.55)
UPSTREAM (INV. ~733.08)
12" COMB.
10" COMB.
8" S.W.
6" S.W.
EX. 6" SAN. SEWER
EX. 8" SAN. SEWER
EX. 1.5" COPPER SVC
EX. 1" COPPER WATER SVC
EX. 1.5" COPPER WATER SVC
EX. 6" HDPE SAN. SVC
EX. 1.5" COPPER SVC
EX. 1" COPPER WATER SVC
EX. 6" DUCTILE IRON WATER MAIN
EX. 6" P.V.C. SAN. SEWER
EX. 3/4" COPPER WATER SERVICE
EX. 6" P.V.C. SAN. SERVICE
EX. 10" COPPER SVC
EX. 6" P.V.C. SAN SEWER
EX. 6" SAN. SVC
EX. 6" SAN. SEWER SVC
EX. 1.5" PLASTIC WATER SVC
EX. 4.0" PVC SEWER SVC
EX. 4" PVC SEWER SVC
EX. 2" COPPER WATER SVC
EX. 6" PVC. SEWER SVC
EX. 6" W.L. SEWER SVC
EX. 6" PVC. SEWER SVC (MAIN TO P.L.)
EX. 6" PVC. SEWER SVC (P.L. TO BLDG.)
EX. 6" PVC. SEWER SVC (P.L. TO BASIN)
EX. 1" COPPER WATER SVC
EX. 1" COPPER WATER SVC
EX. 1" HDPE SAN. SVC (MAIN TO P.L.)
EX. 1" HDPE SAN. SVC (P.L. TO BLDG.)
EX. 6" O.B. SAN. SVC
EX. 6" O.B. SAN. SVC
EX. 6" O.B. SAN. SVC



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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Service Plan Sta 21+00 to P.O.E. (Arlington Drive)

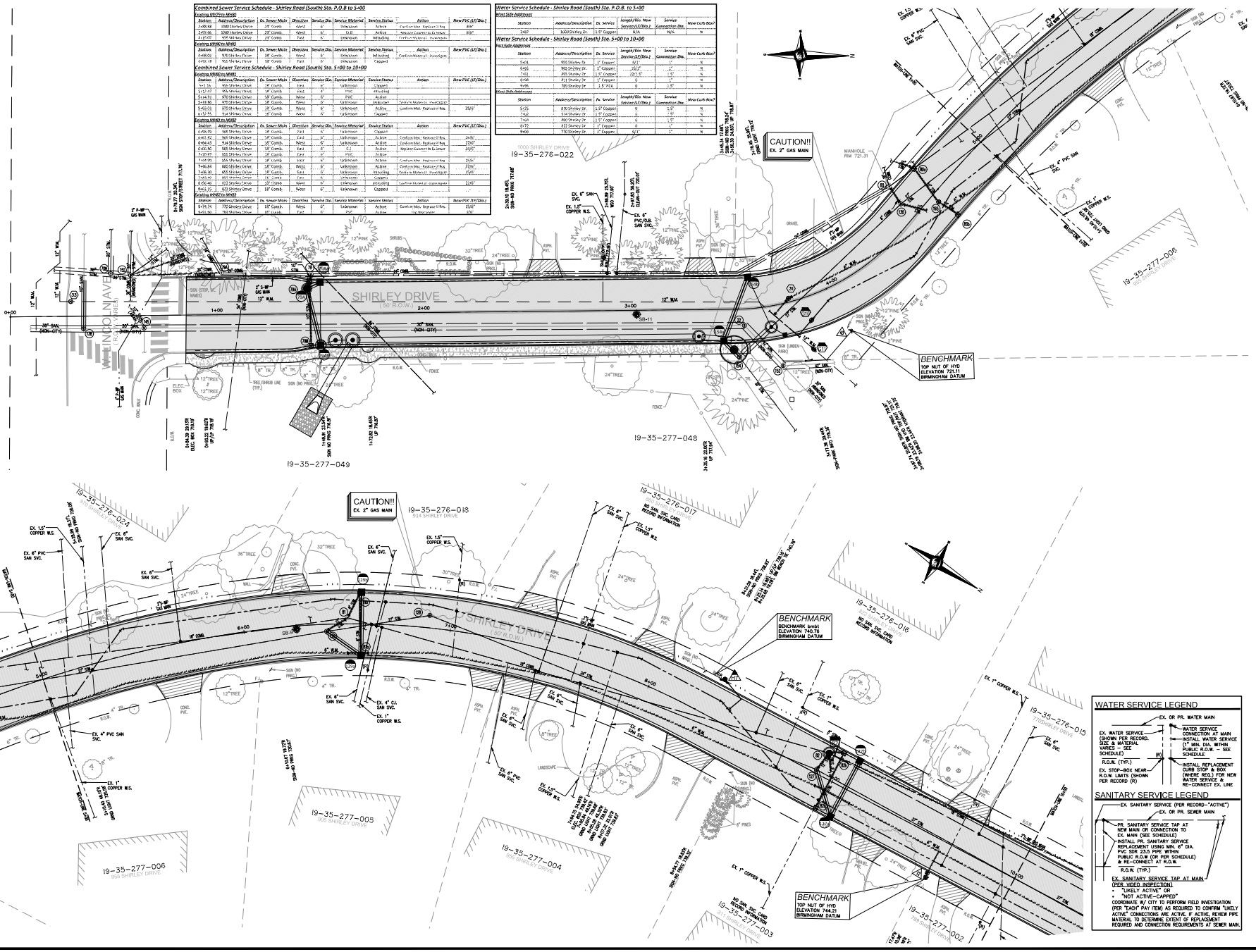
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C15

8F



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Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Service Plan Sta P.O.B. to 10+00 (Shirley - South)

811
Know what's below
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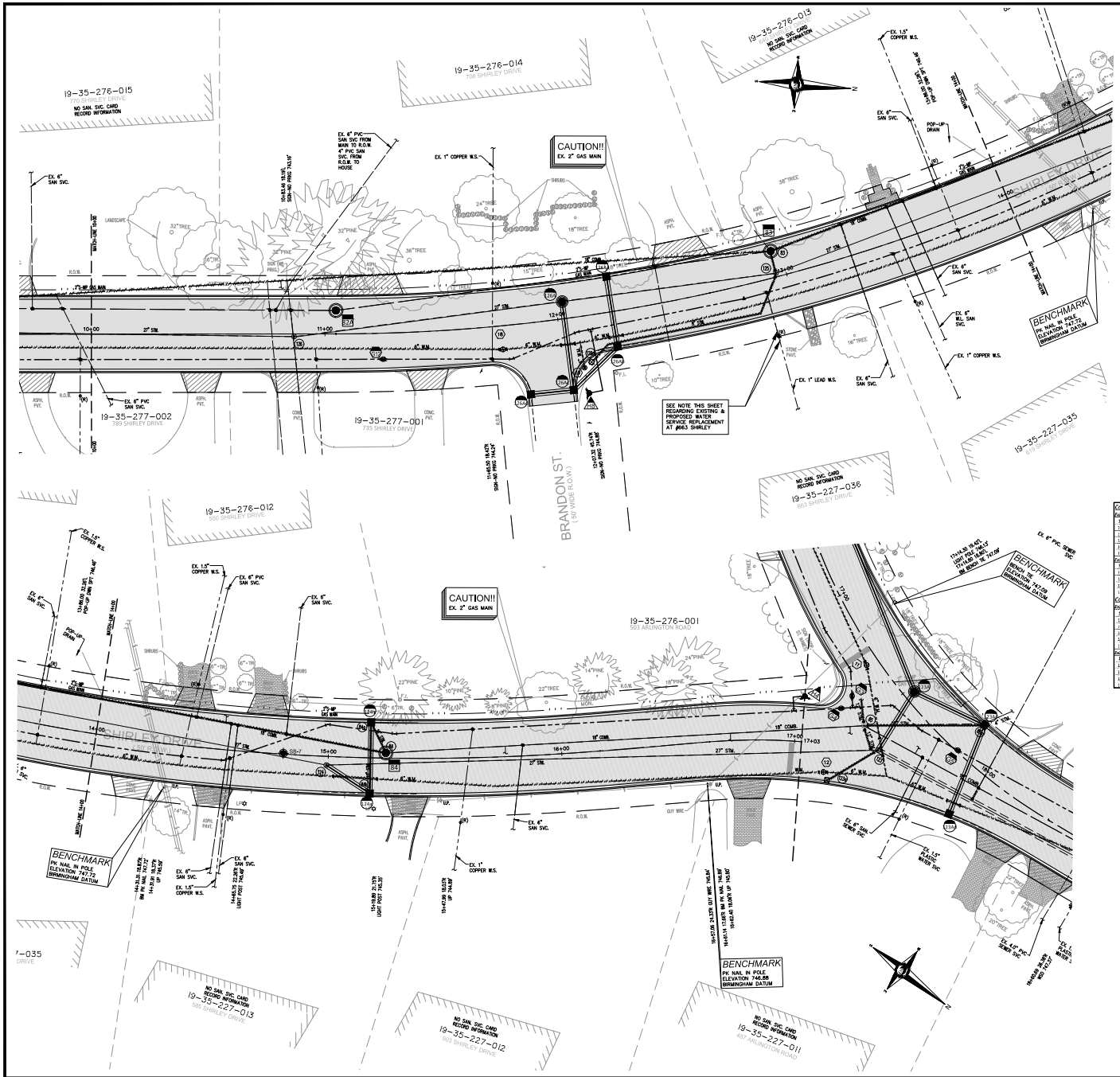
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C16

8F



Water Service Schedule - Shirley Road (South) Sta. 10+00 to 14+00

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
10+90	735 Shirley Dr	1.5" PVC	0	1.5"	N
11+40	7463 Shirley Dr *	1" Lead	30'/1"	1"	Y
13+48.7	619 Shirley Dr	1" Copper	4/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
11+71	728 Shirley Dr	1" Copper	5/1"	1"	N
13+25	660 Shirley Dr	1.5" Copper	0	1.5"	N

*Note: Records indicate a lead water service at #663 Shirley likely exists between ROW and main, but may have previously been replaced with copper material between the ROW and house meter. Inspection to other work items in the contract, and in advance of the water main replacement work, the Contractor shall perform inspection excavation on both the sides of the shut-off valve near the #663 to confirm materials on each side, and shall be prepared to replace both "public" and "private" portions of the service line using applicable pay items for each. If required, replacement of the "private" portion of the service line between the ROW and house meter shall be paid using the following pay items: "New Water Service", c. "Private Property/Bounds .PPB", and "Water Service Connection , 1" Connection at Meter, 663 Shirley".

Water Service Schedule - Shirley Road (South) Sta. 14+00 to P.O.E.

East Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
14+59	565 Shirley Dr.	1.5" Copper	6/1.5"	1.5"	N
15+02	503 Shirley Dr.	1" Copper	24/1"	1"	N

West Side Addresses

Station	Address/Description	Ex. Service	Length/Dia. New Service (LF/Dia.)	Service Connection Dia.	New Curb Box?
14+38	550 Shirley Dr.	1.5" Copper	0	1.5"	N

Combined Sewer Service Schedule - Shirley Road (South) Sta. 10+00 to 14+00

Existing MH#2 to MH#3

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
10+76.42	728 Shirley Drive	18" Comb.	East	6"	PVC	Active	Tap into New Sewer	0/6"
10+96.09	708 Shirley Drive	18" Comb.	West	6"	PVC	Active	Existing to Tap into Sewer	0/6"
10+92.10	736 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
11+65.48	730 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	30/6"
13+61.96	663 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Material, Investigate	0/6"

Existing MH#3 to MH#4

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
13+38.27	663 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	40/6"
13+89.79	639 Shirley Drive	18" Comb.	East	6"	W.L.	Active	Replace Tap to Sewer	0/6"
14+52.31	619 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	42/6"
15+71.00	565 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat., Replace if Req.	59/6"

Combined Sewer Service Schedule - Shirley Road (South) Sta. 14+00 to P.O.E

Existing MH#3 to MH#4

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
14+42.16	550 Shirley Drive	18" Comb.	West	6"	PVC	Active	Tap into New Sewer	0/6"
14+59.09	565 Shirley Drive	18" Comb.	West	6"	Unknown	Capped	-	-
14+57.39	585 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	37/6"
14+60.20	550 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	36/6"
14+67.48	550 Shirley Drive	18" Comb.	West	6"	Unknown	Active	Confirm Mat., Replace if Req.	26/6"

Existing MH#4 to MH#5

Station	Address/Description	Ex. Sewer Main	Direction	Service Dia.	Service Material	Service Status	Action	New PVC (LF/Dia.)
15+75.95	569 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
15+61.46	563 Shirley Drive	18" Comb.	East	6"	Unknown	Active	Confirm Mat., Replace if Req.	20/6"
16+72.55	487 Shirley Drive	18" Comb.	East	6"	Unknown	Capped	-	-
17+26.07	487 Arlington Rd.	18" Comb.	East	6"	Unknown	Capped	-	-

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City of Birmingham
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Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Utility Service Plan Sta 10+00 to P.O.E. (Shirley - South)

811
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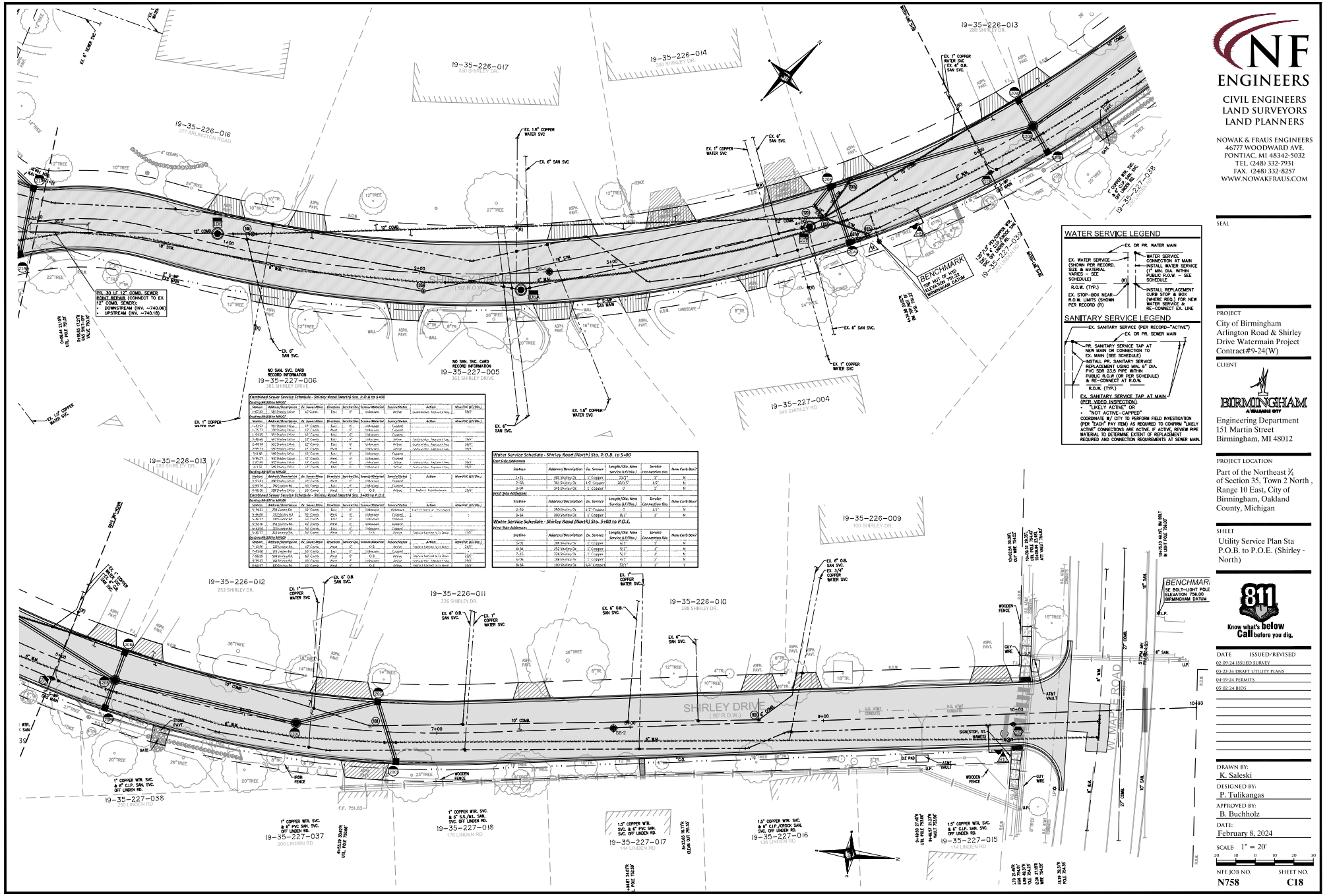
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'
20 10 0 10 20 30
NFE JOB NO. N758
SHEET NO. C17

8F



8F

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Contract#9-24(W)

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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

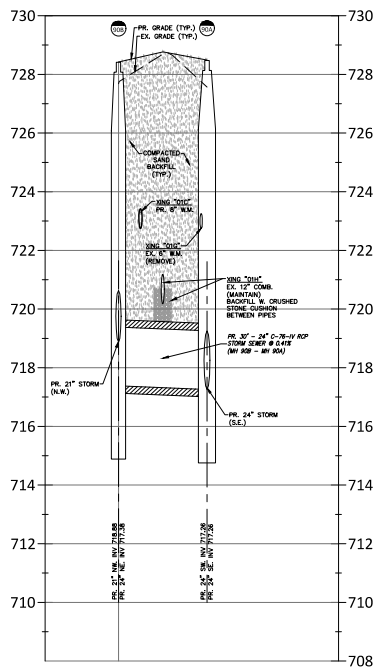
SHEET
Utility Service Plan Sta P.O.B. to P.O.E. (Shirley - North)

811 Know what's below Call before you dig.

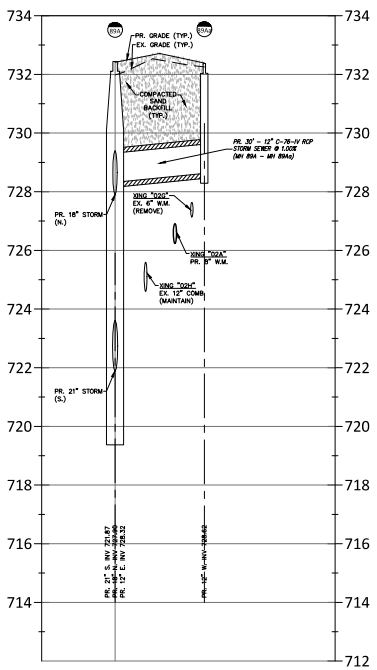
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

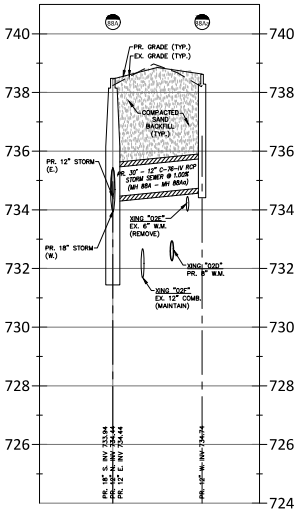
NFE JOB NO. N758
SHEET NO. C18



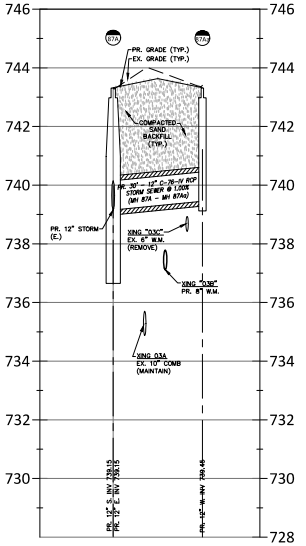
STORM PROFILE 90B-90A (STA. 03+84, SHEET C01)



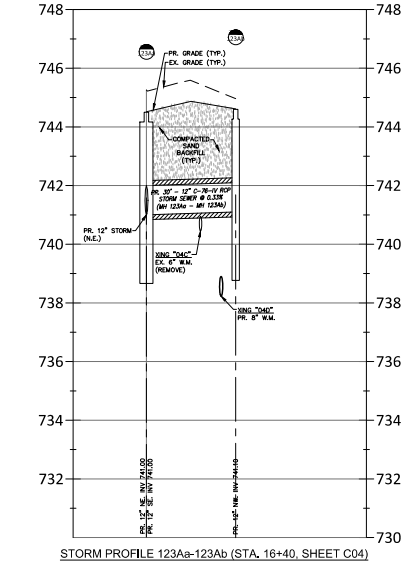
STORM PROFILE 89A-89Aa (STA. 07+25, SHEET C02)



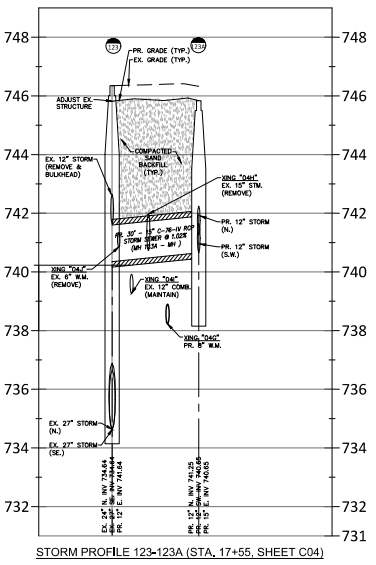
STORM PROFILE 88A-88Aa (STA. 09+70, SHEET C02)



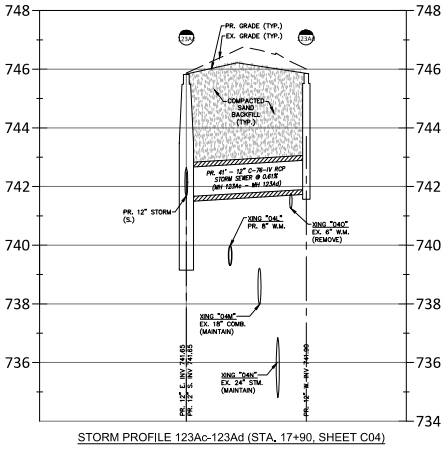
STORM PROFILE 87A-87Aa (STA. 13+18, SHEET C03)



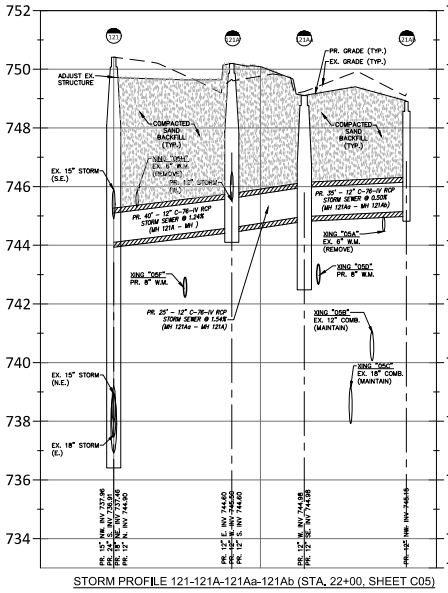
STORM PROFILE 123Aa-123Ab (STA. 16+40, SHEET C04)



STORM PROFILE 123-123A (STA. 17+55, SHEET C04)



STORM PROFILE 123Ac-123Ad (STA. 17+90, SHEET C04)



STORM PROFILE 121-121A-121Aa-121Ab (STA. 22+00, SHEET C05)

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PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Storm Sewer Profiles - Arlington Road (1 of 2)

811 Know what's below Call before you dig.

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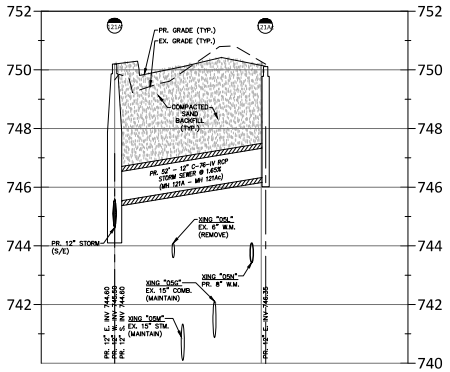
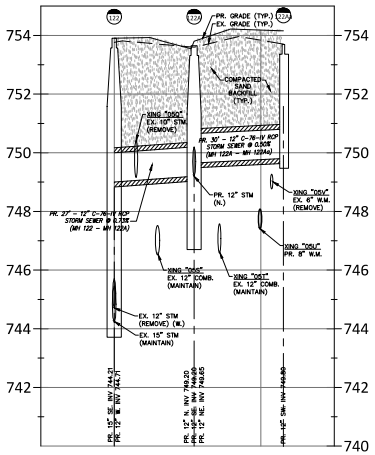
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

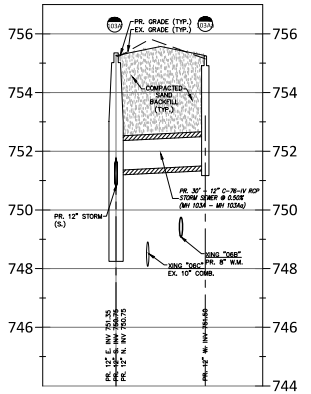
NFE JOB NO. N758
SHEET NO. C19



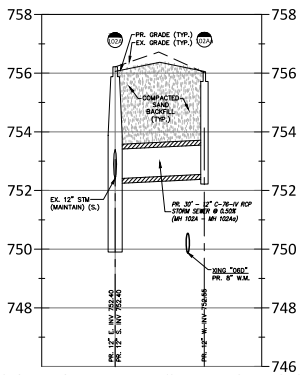
STORM PROFILE 121A-12Ac (STA. 22+19, SHEET C05)



STORM PROFILE 122-122A-122Aa (STA. 24+75, SHEET C05)



STORM PROFILE 103A-103Aa (STA. 27+10, SHEET C06)



STORM PROFILE 102A-102Aa (STA. 29+60, SHEET C06)

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SHEET
Storm Sewer Profiles - Arlington Road (2 of 2)

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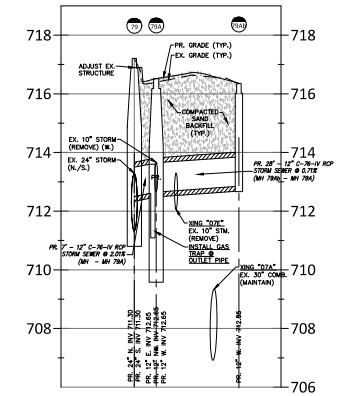
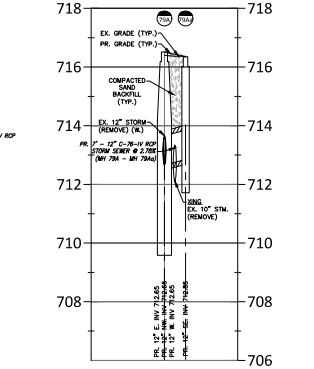
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

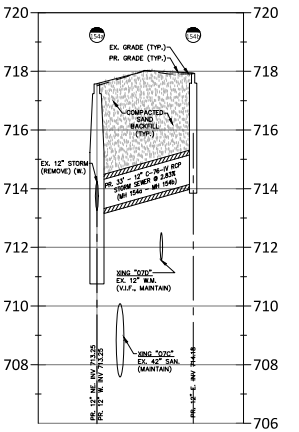
NFE JOB NO. N758
SHEET NO. C20



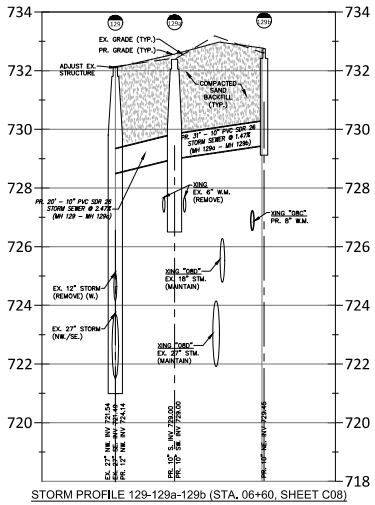
STORM PROFILE 79-79A-79Ab (STA. 01+45, SHEET C07)



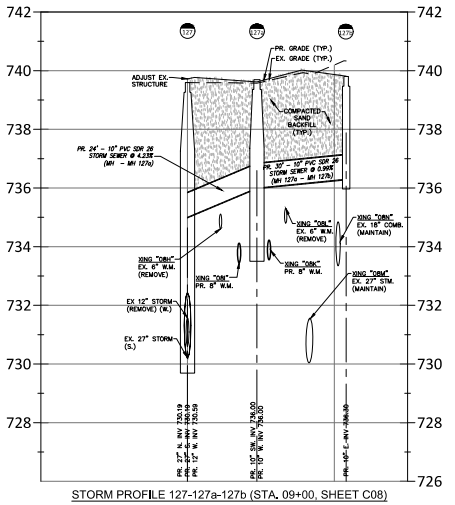
STORM PROFILE 79A-79Aa (STA. 01+45, SHEET C07)



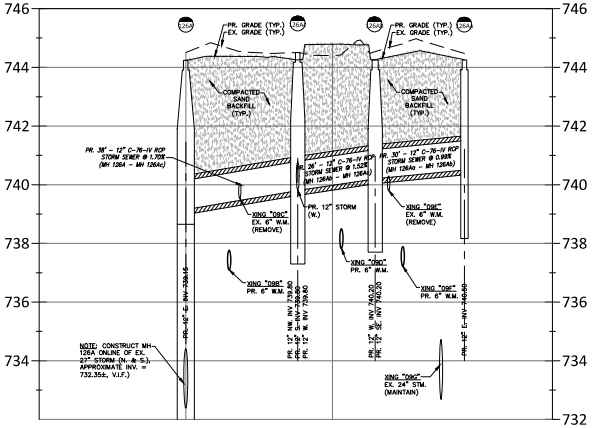
STORM PROFILE 154a-154b (STA. 03+50, SHEET C07)



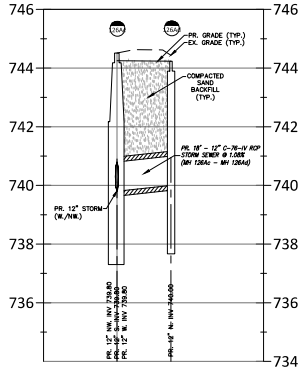
STORM PROFILE 129-129a-129b (STA. 06+60, SHEET C08)



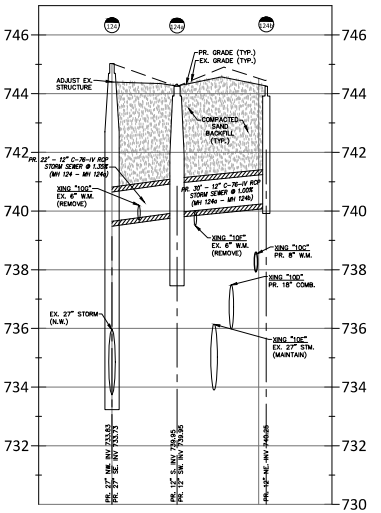
STORM PROFILE 127-127a-127b (STA. 09+00, SHEET C08)



STORM PROFILE 126A-126Ac-126Ab-126Aa (STA. 12+00, SHEET C09)



STORM PROFILE 126Ac-126Ad (STA. 12+00, SHEET C09)



STORM PROFILE 126Ac-126Ad (STA. 15+18, SHEET C10)

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

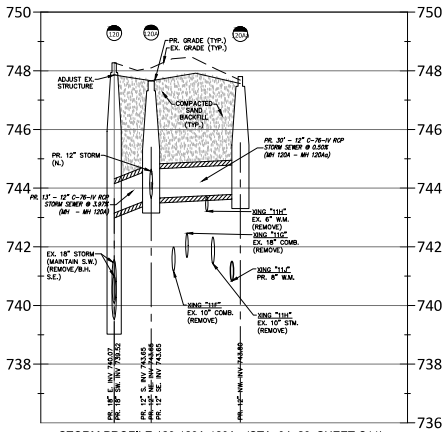
SHEET
Storm Sewer Profiles - Shirley Drive (1 of 2)

811 Know what's below Call before you dig.

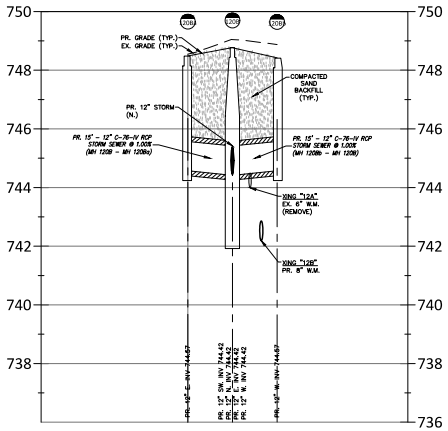
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

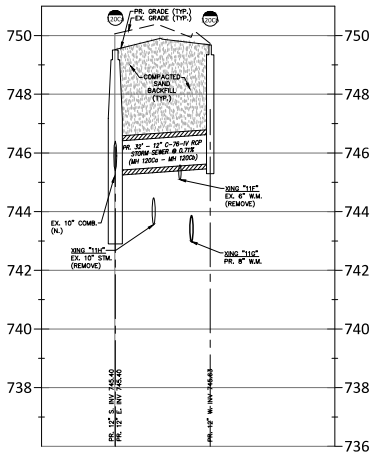
NFE JOB NO. N758
SHEET NO. C21



STORM PROFILE 120-120A-120Aa (STA. 04+20, SHEET C11)



STORM PROFILE 120Ba-120B-120Bb (STA. 05+30, SHEET C12)



STORM PROFILE 120Ca-120Cb (STA. 06+75, SHEET C12)

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PROJECT LOCATION
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SHEET
Storm Sewer Profiles - Shirley Drive (2 of 2)

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'
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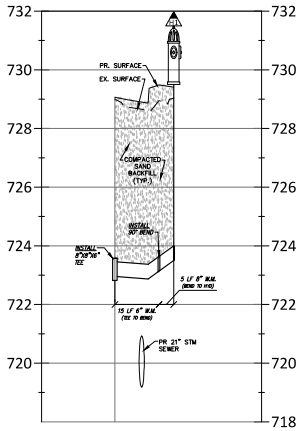
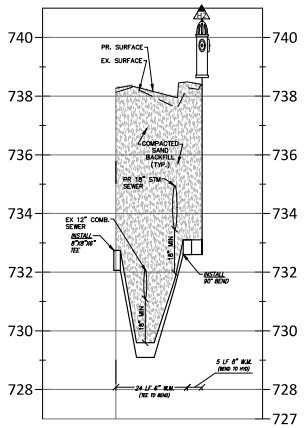
NFE JOB NO. N758
SHEET NO. C22



HYDRANT #1 PROFILE (STA. 4+07, SHEET C01)



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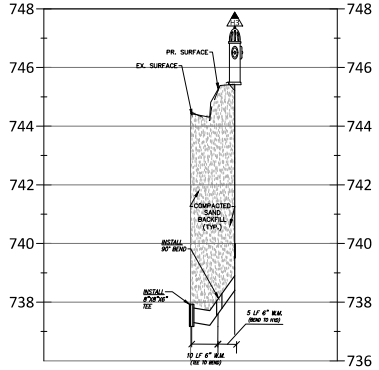
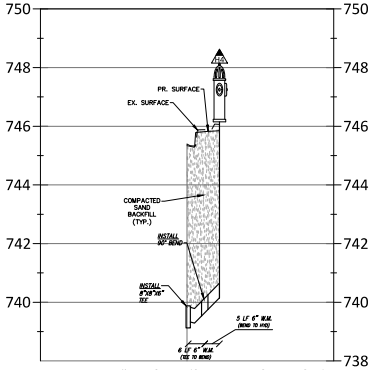
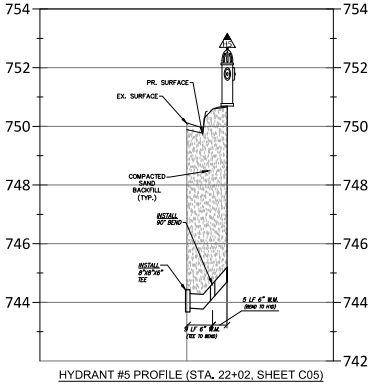


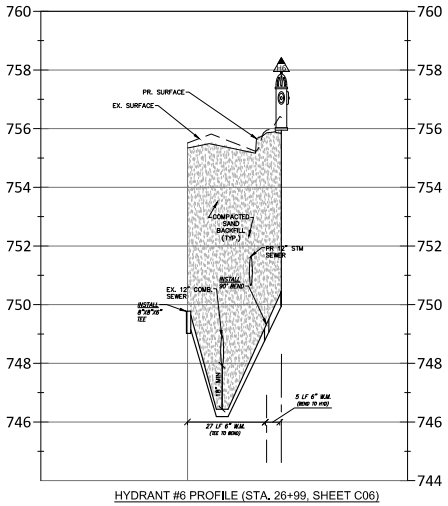
HYDRANT #3 PROFILE (STA. 14+44, SHEET C03)



HYDRANT #4 PROFILE (STA. 17+28, SHEET C04)



HYDRANT #5 PROFILE (STA. 22+02, SHEET C05)



HYDRANT #6 PROFILE (STA. 26+99, SHEET C06)

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City of Birmingham
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PROJECT LOCATION
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SHEET
Hydrant Lead Profiles - Arlington Road

811
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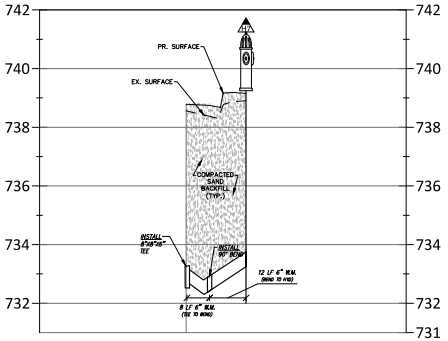
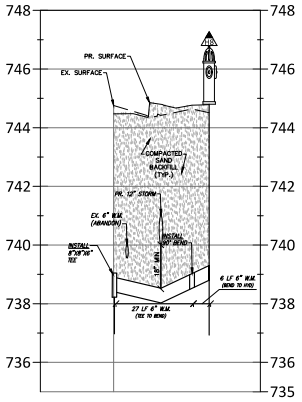
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

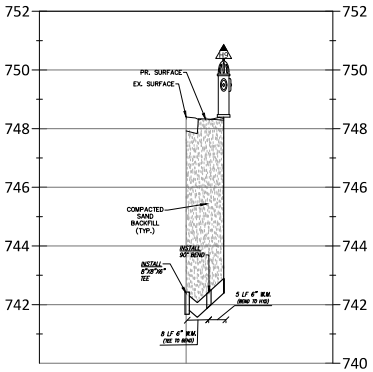
NFE JOB NO. N758
SHEET NO. C23



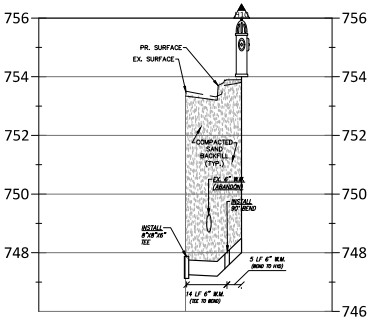
HYDRANT #7 PROFILE (STA. 08+31, SHEET C08)



HYDRANT #8 PROFILE (STA. 13+31, SHEET C09)



HYDRANT #9 PROFILE (STA. 04+54, SHEET C11)



HYDRANT #10 PROFILE (STA. 09+90, SHEET C12)

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City of Birmingham
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PROJECT LOCATION
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SHEET
Hydrant Lead Profiles - Shirley Drive

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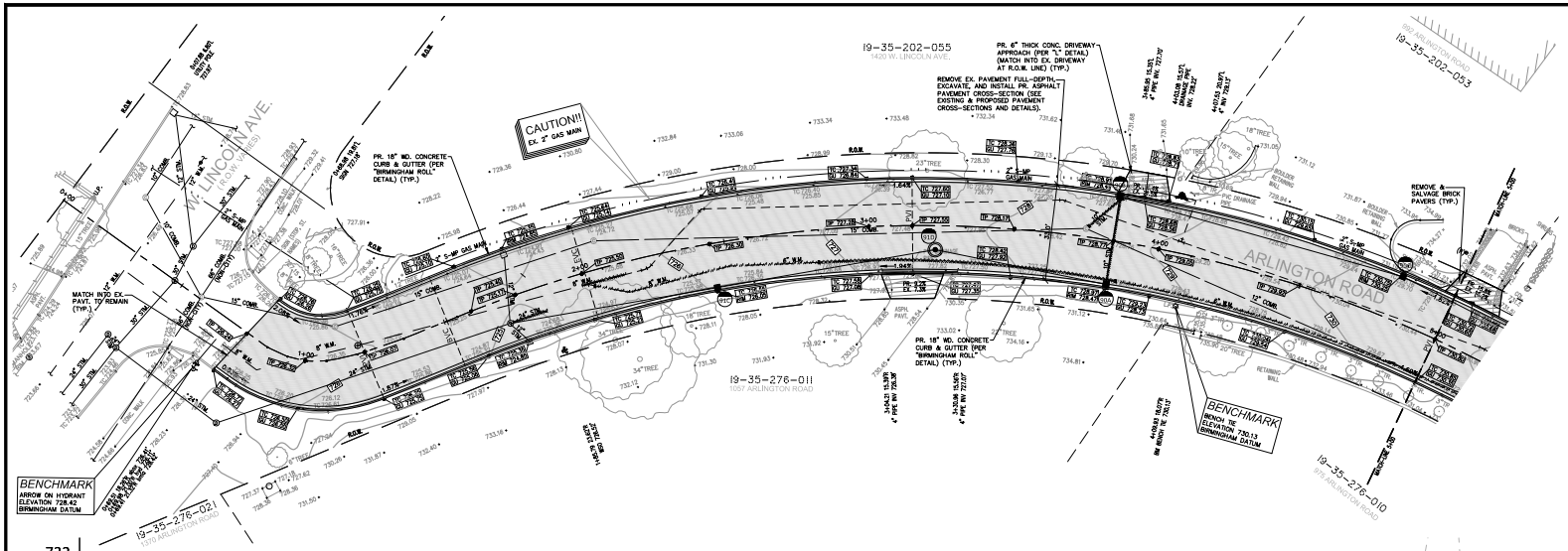
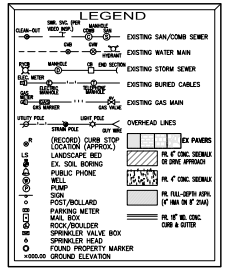
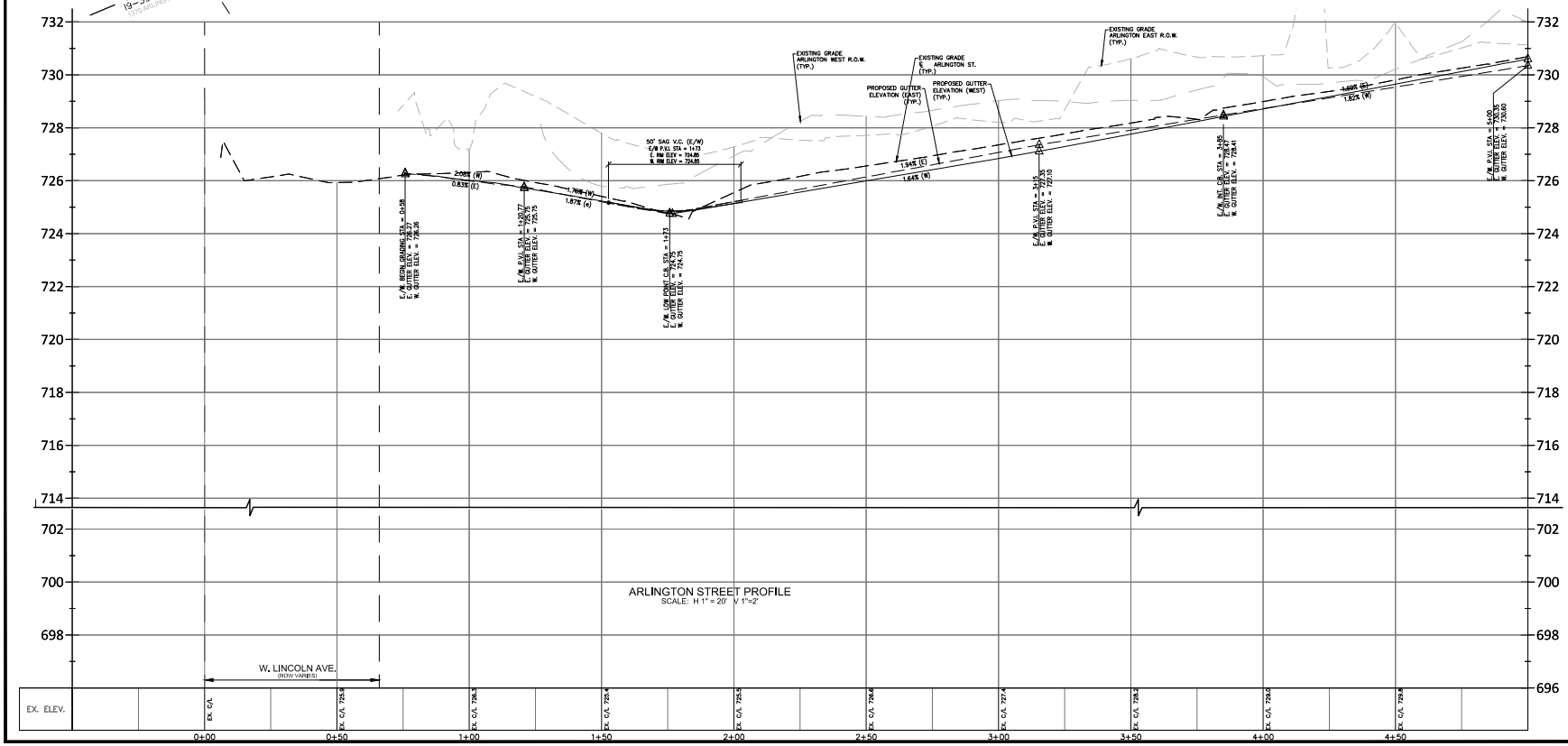
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C24







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SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Arlington Road)

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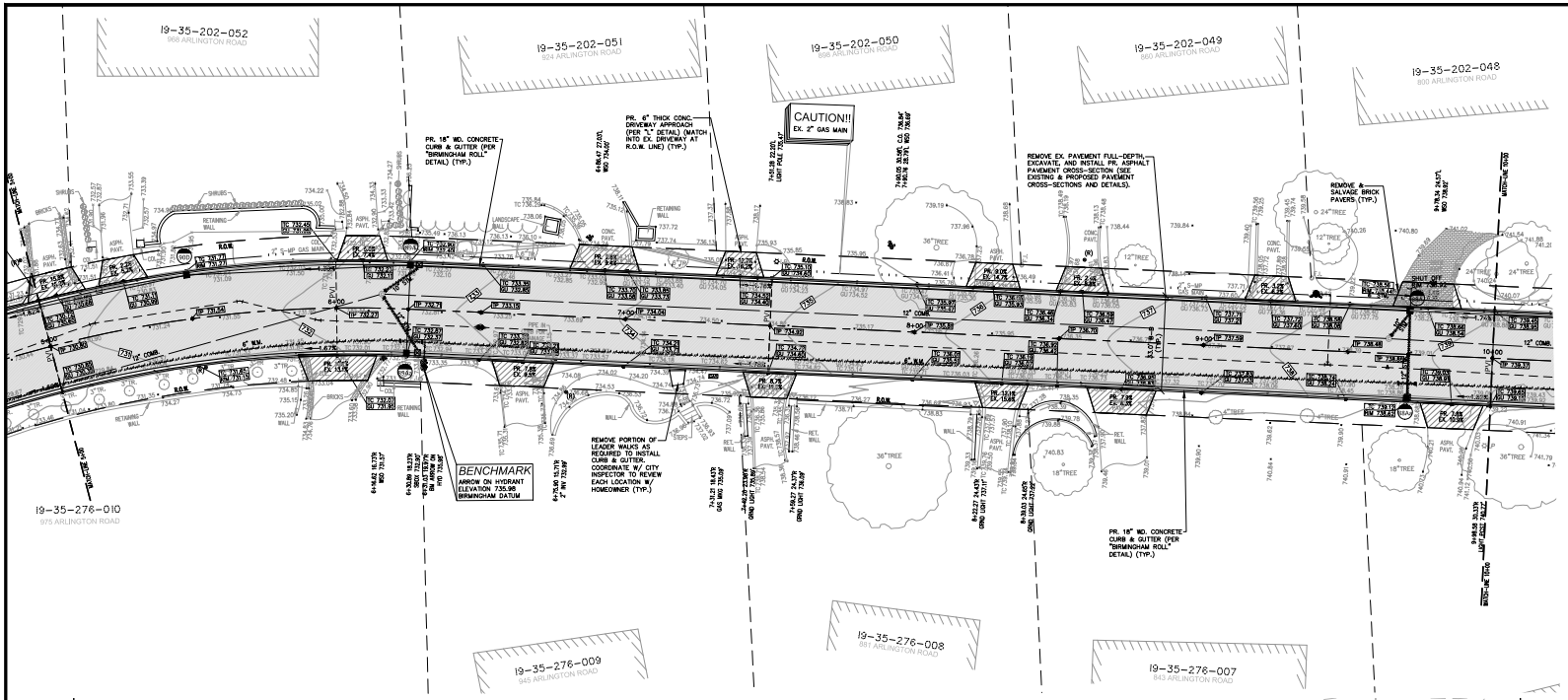
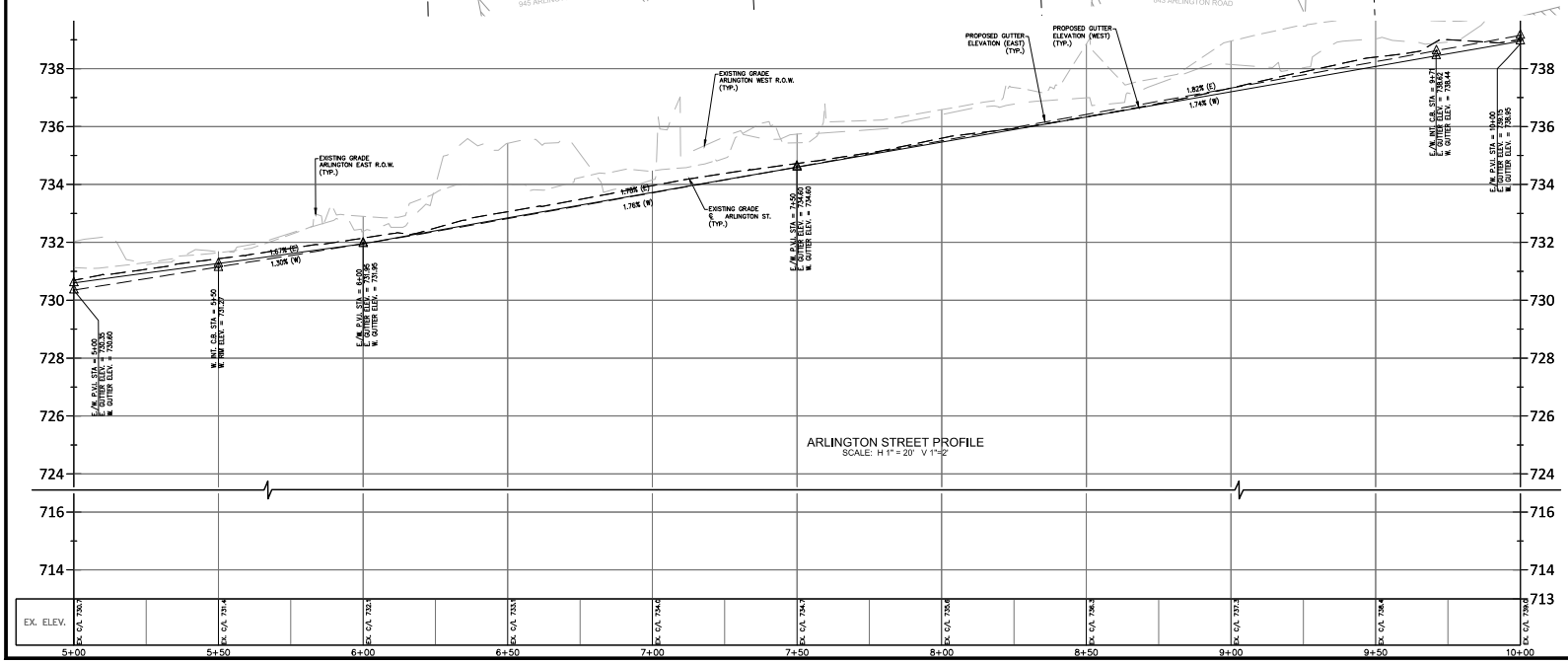
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C25

8F





ARLINGTON STREET PROFILE
SCALE: H 1" = 20' V 1"=2'

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- (RECORD) CURB STOP LOCATION (APPROX.)
- LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- GROUND ELEVATION
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FULL-DEPTH ASPH. (4" HMA ON 6" 21AA)
- PR. 18" WD. CONC. CURB & GUTTER

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SHEET
Paving & Grading Plan Sta 5+00 to 10+00 (Arlington Road)

811
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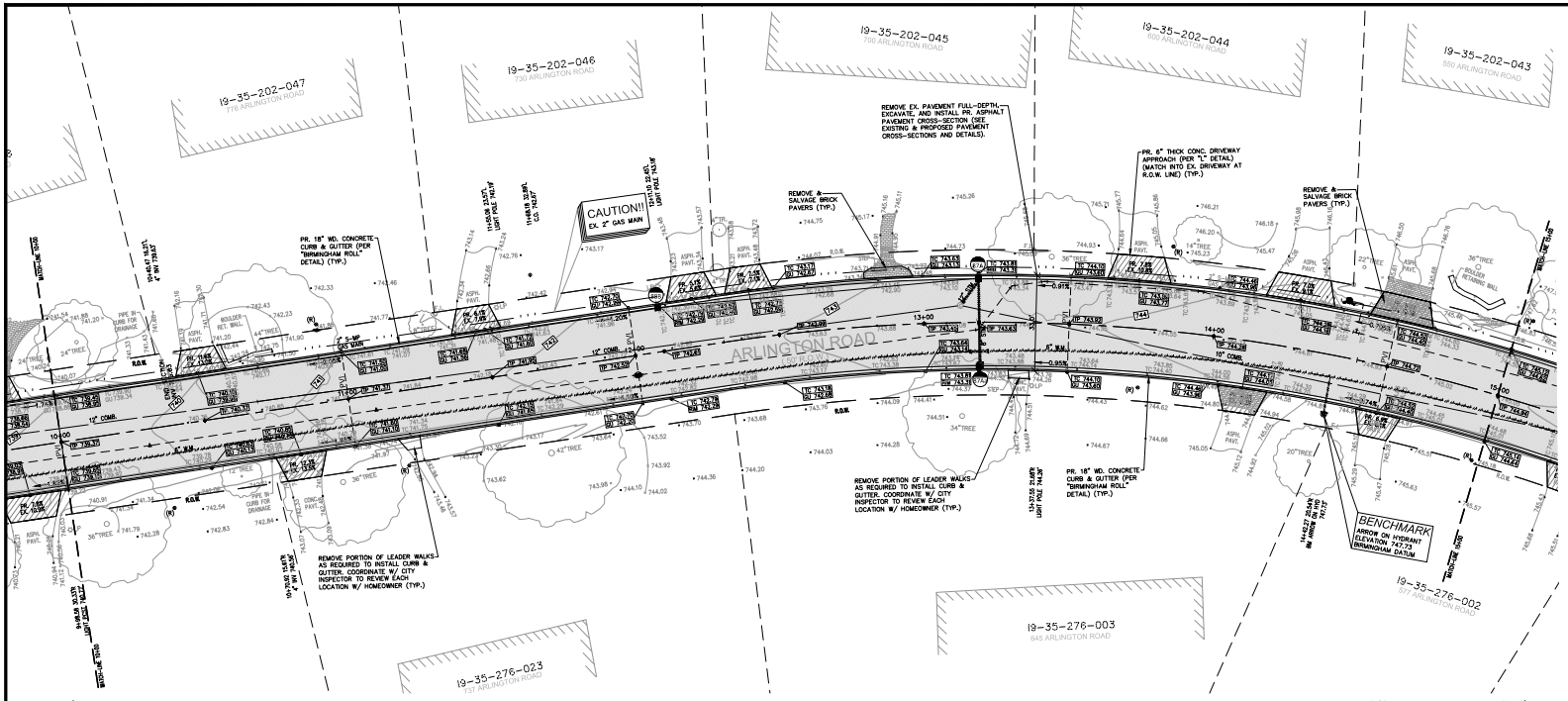
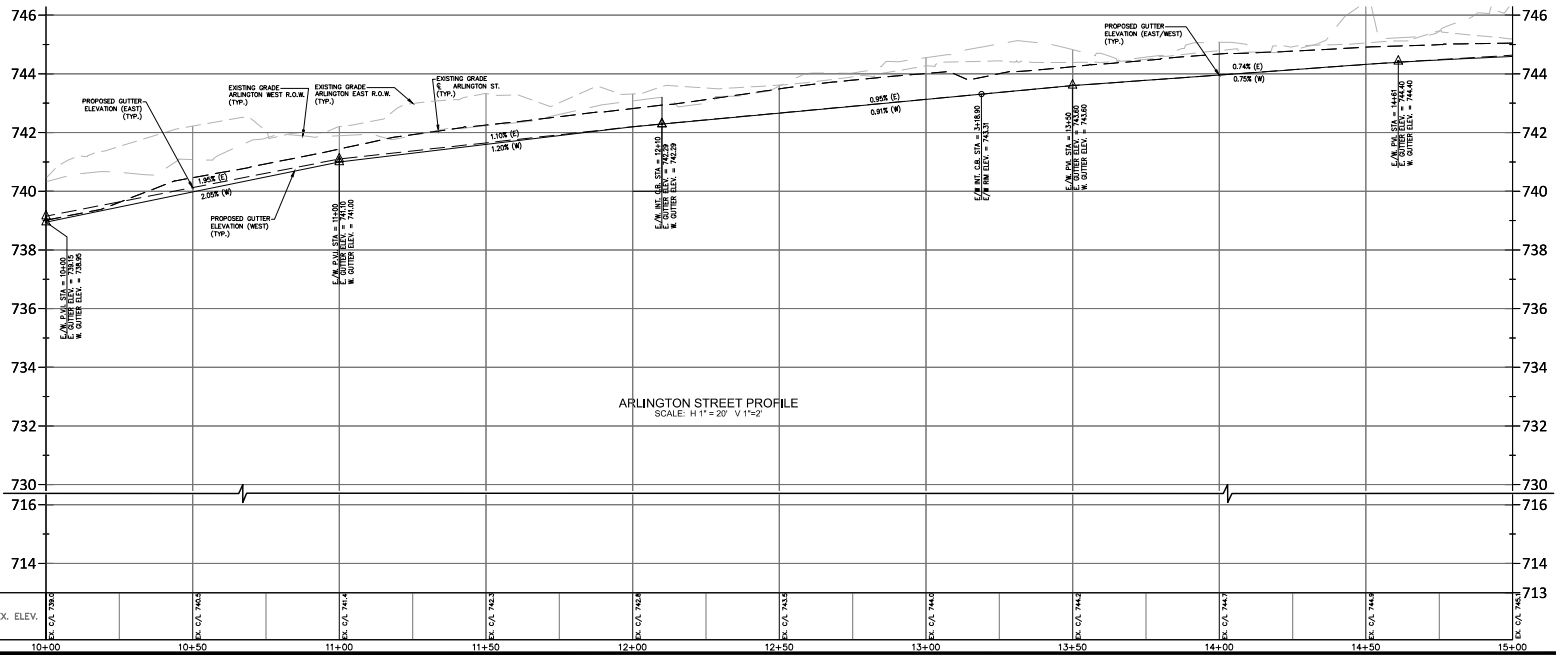
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

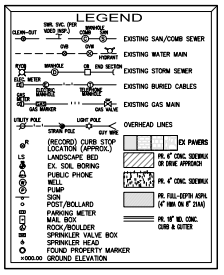
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C26

8F







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Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 10+00 to 15+00 (Arlington Road)

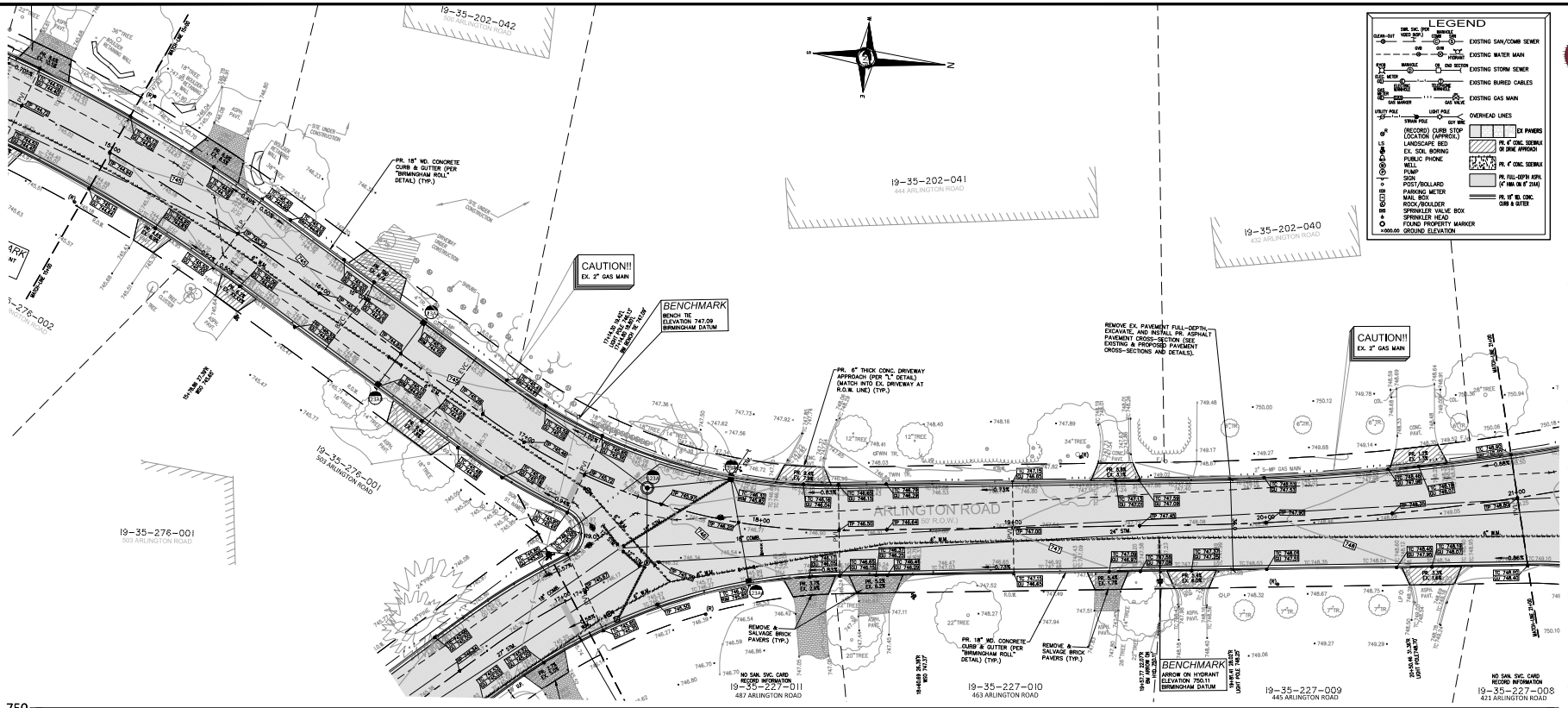
811
Know what's below
Call before you dig.

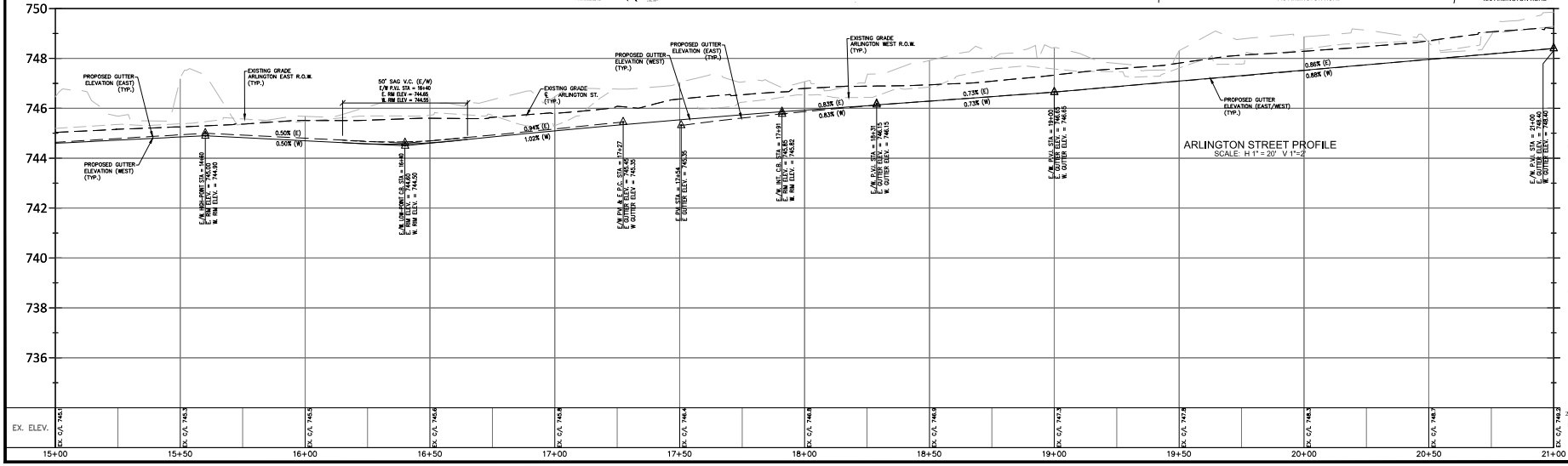
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C27

8F





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SHEET
Paving & Grading Plan Sta 15+00 to 21+00 (Arlington Road)

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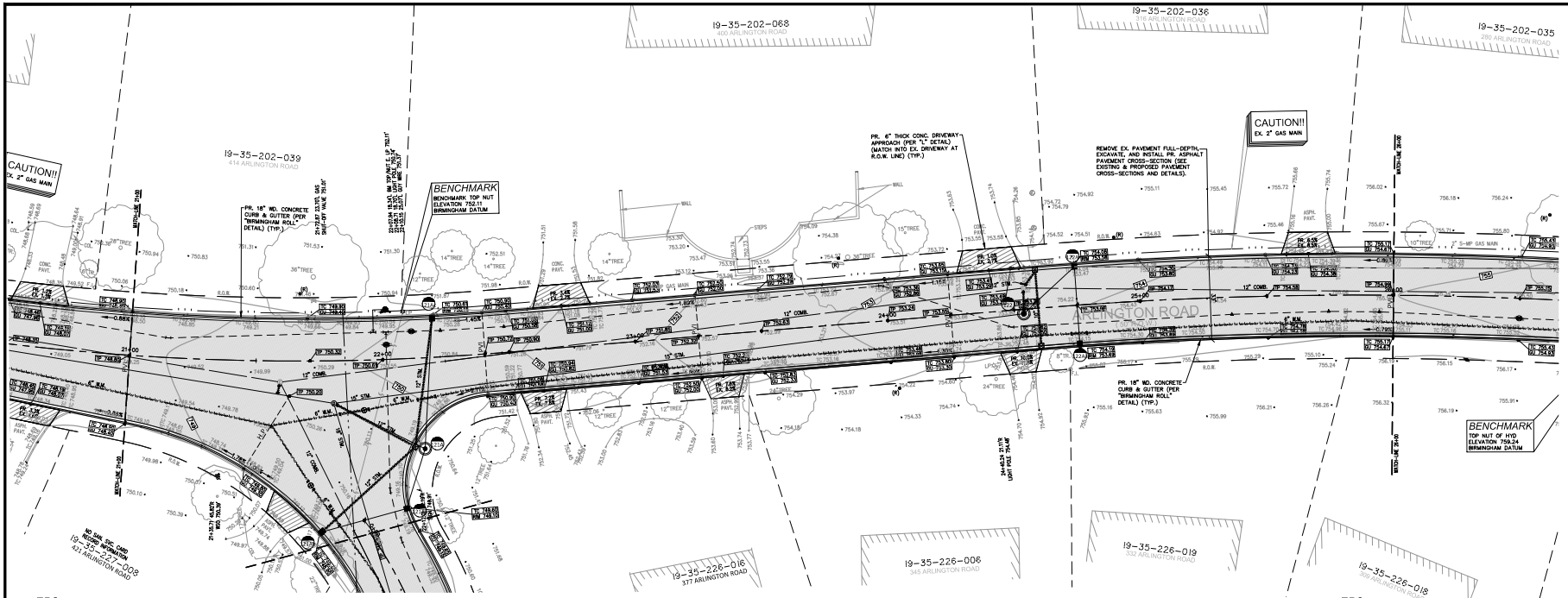
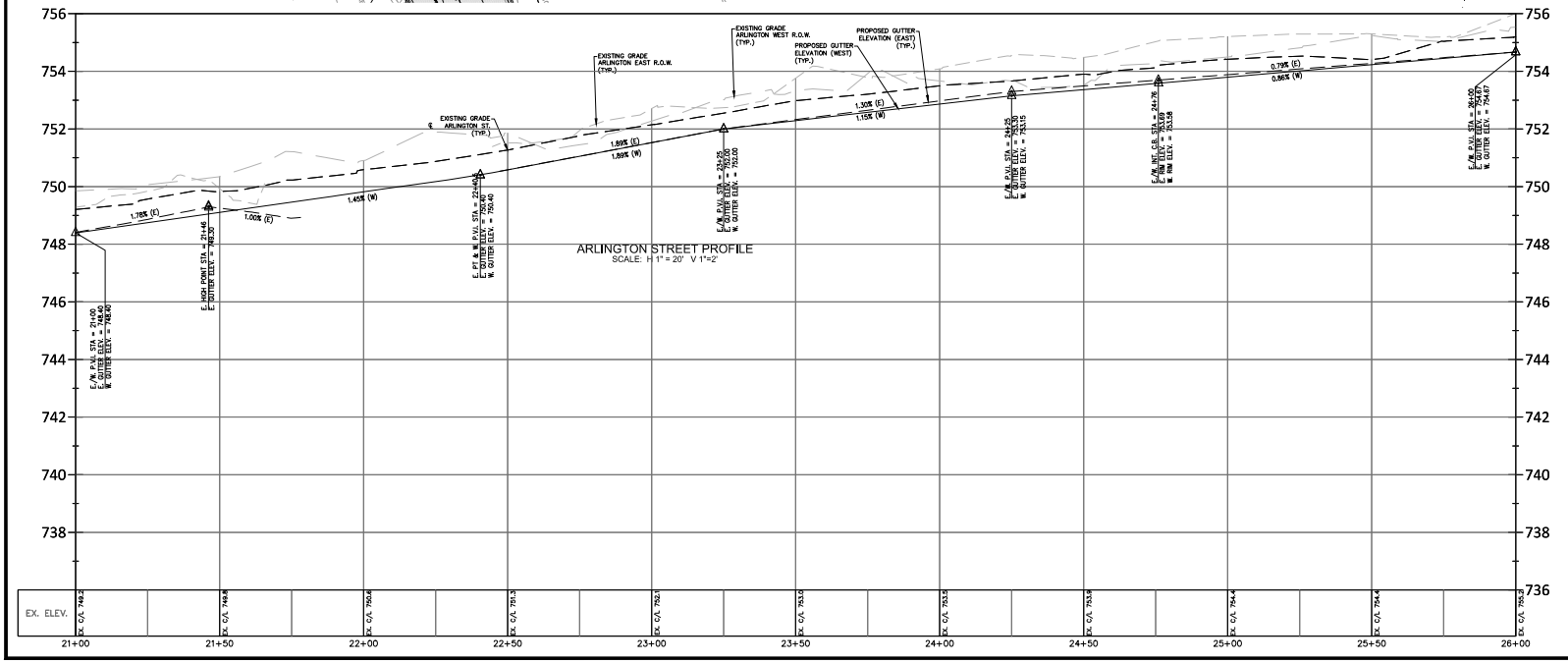
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

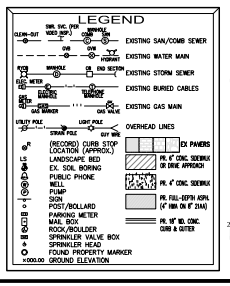
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C28

8F







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SHEET
Paving & Grading Plan Sta 21+00 to 26+00 (Arlington Road)

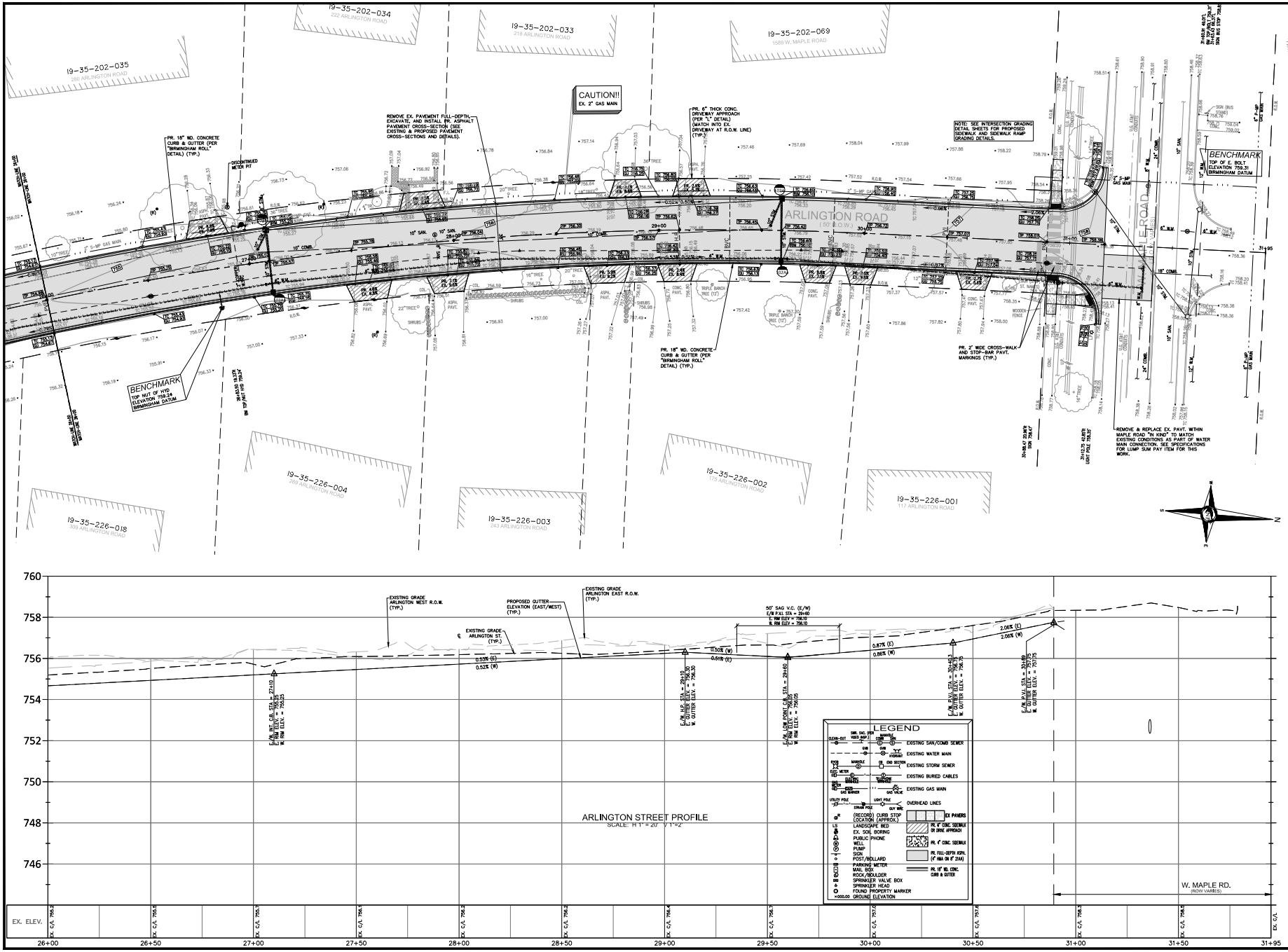
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C29

8F



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FAX. (248) 332-8257
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 26+00 to P.O.E. (Arlington Road)

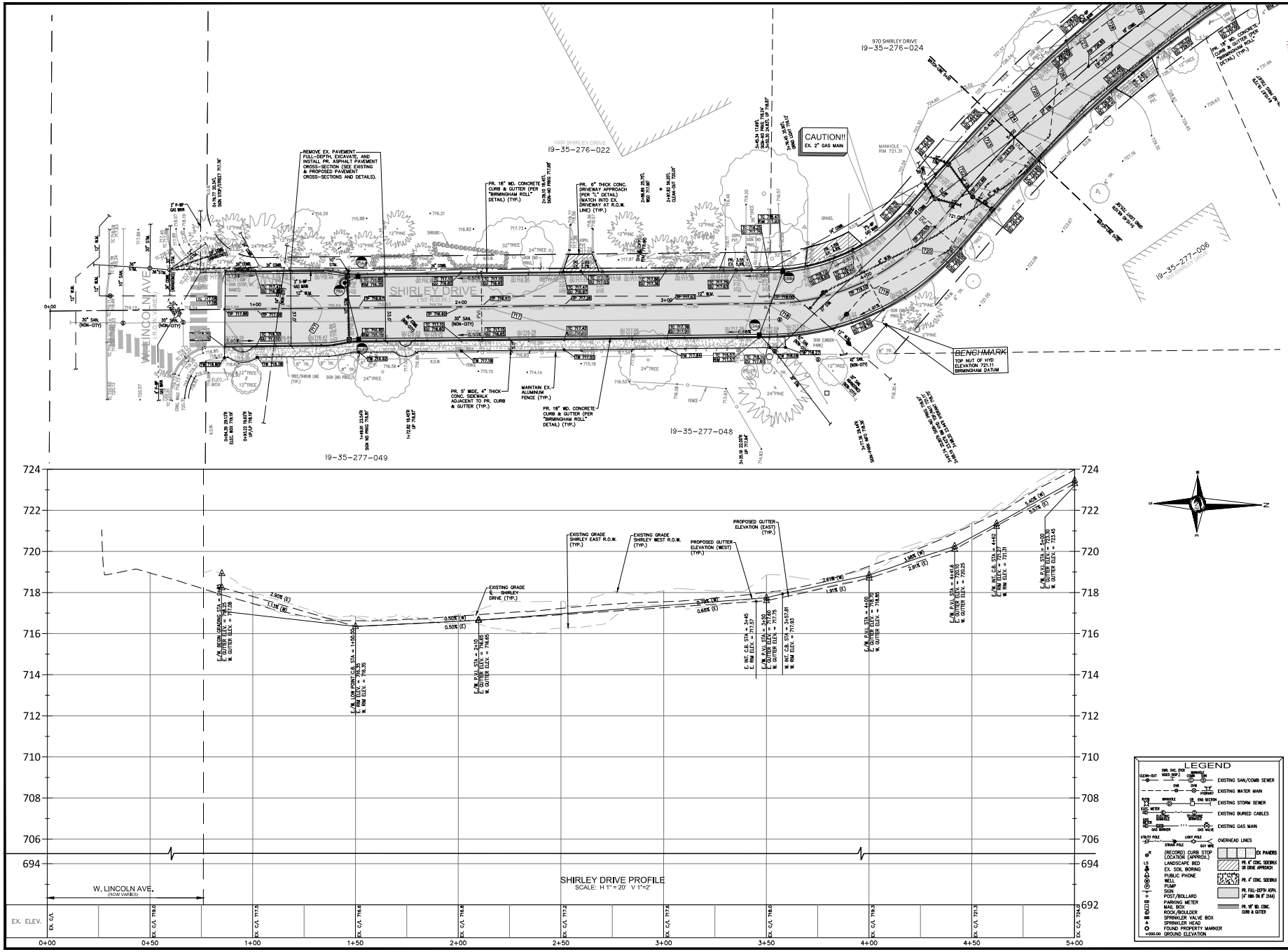
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C30

8F



NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Shirley - South)

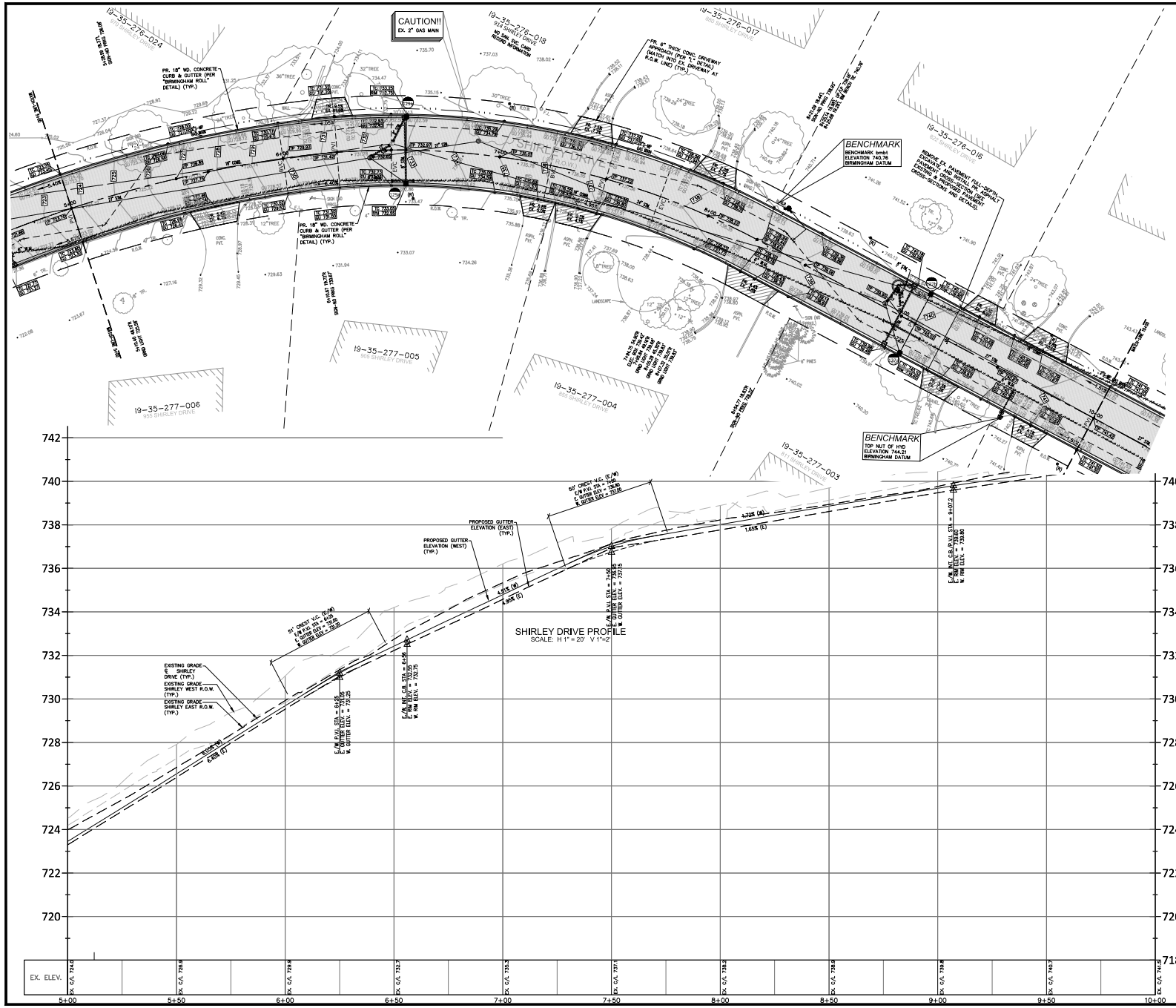
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C31

8F



LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- EX PAVERS
- PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
- PR. 4" CONC. SIDEWALK
- PR. FILL-DEPTH ASPH. (4" MIN. OR 6" 21AA)
- PR. 18" WD. CONC. CURB & GUTTER

(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

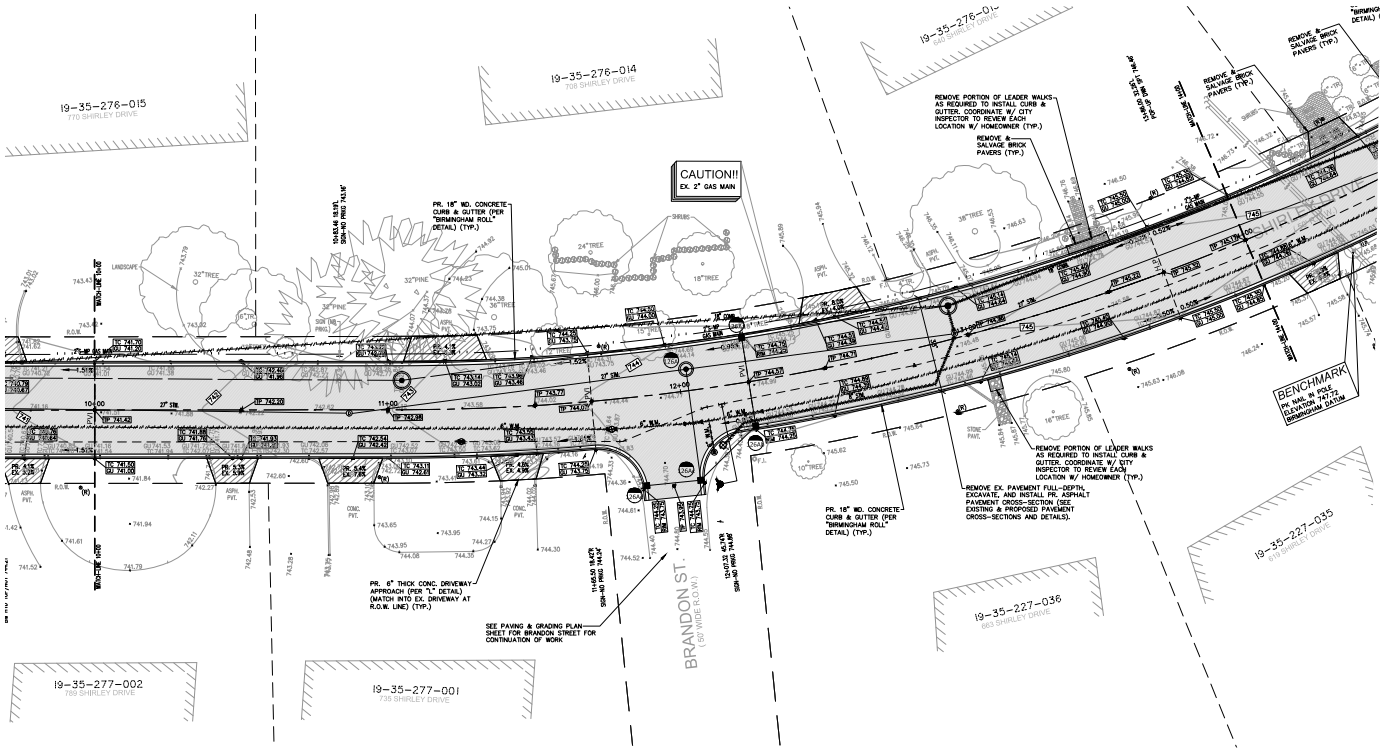
SHEET
Paving & Grading Plan Sta 5+00 to 10+00 (Shirley - South)

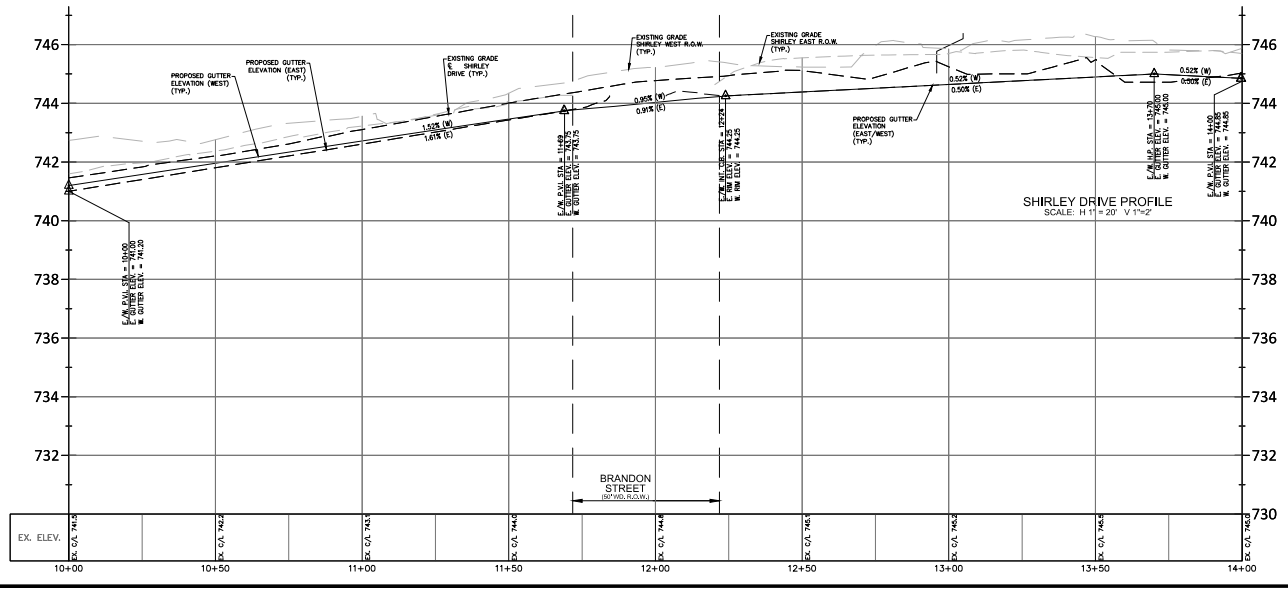
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C32





LEGEND

EXISTING SAN/COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
(RECORD) CURB STOP LOCATION (APPROX.)
LANDSCAPE BED
EX. SOIL BORING
PUBLIC PHONE
WELL
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
EX. PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
PR. 4" CONC. SIDEWALK
PR. FULL-DEPTH ASPH. (4" HMA ON 6" 21AA)
PR. 18" WD. CONC. CURB & GUTTER

NF ENGINEERS
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 10+00 to 14+00 (Shirley - South)

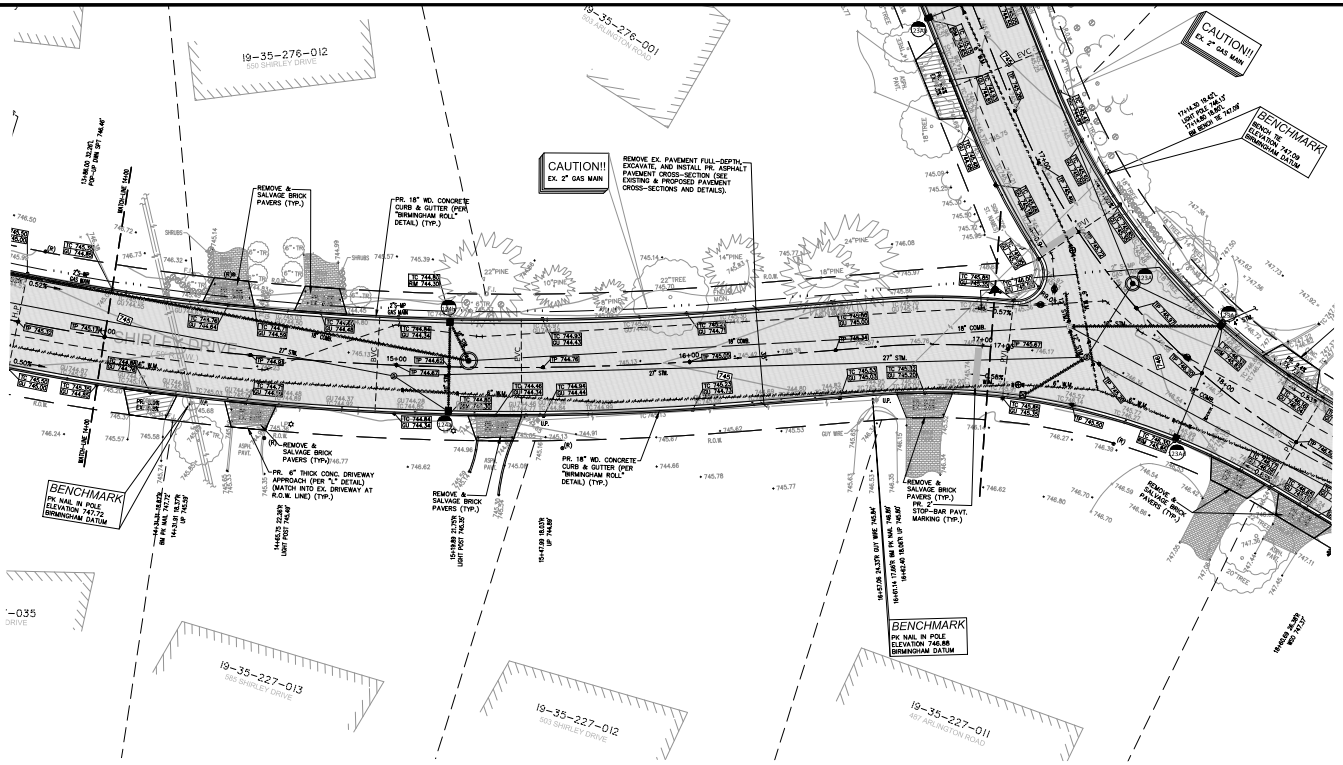
811
Know what's below
Call before you dig.

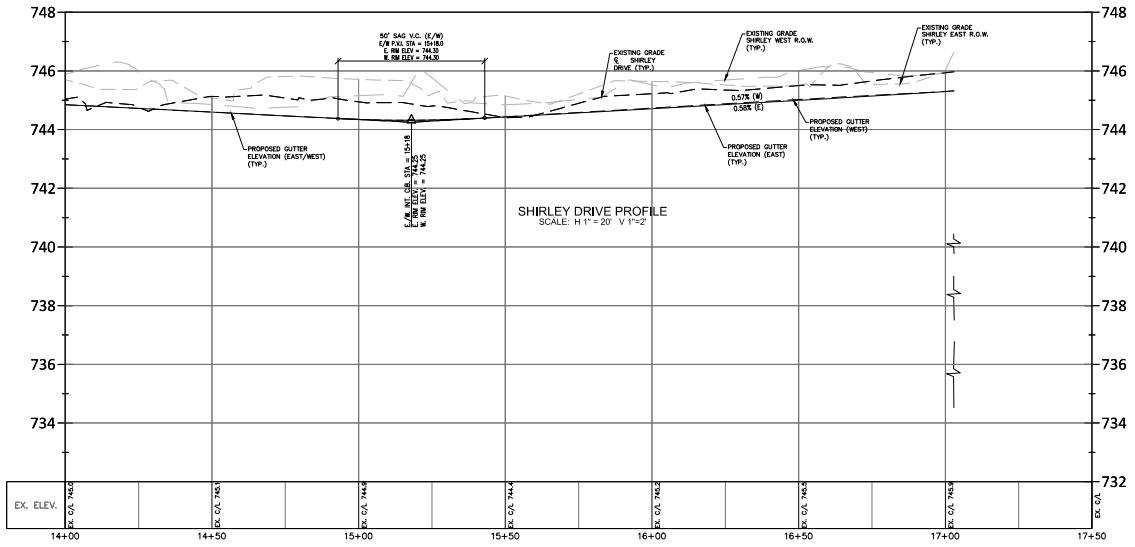
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

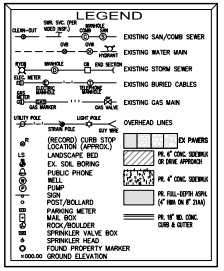
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C33

8F







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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 14+00 to P.O.E. (Shirley - South)

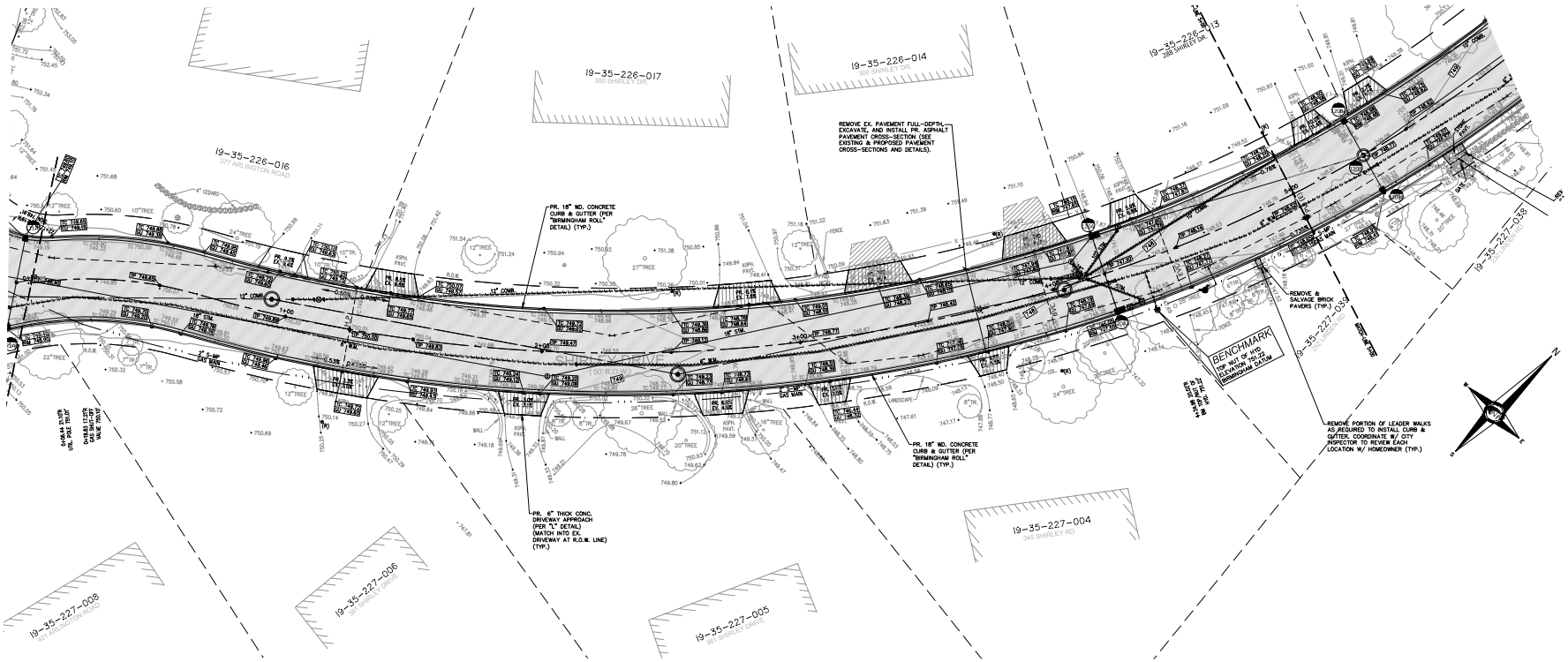
811
Know what's below
Call before you dig.

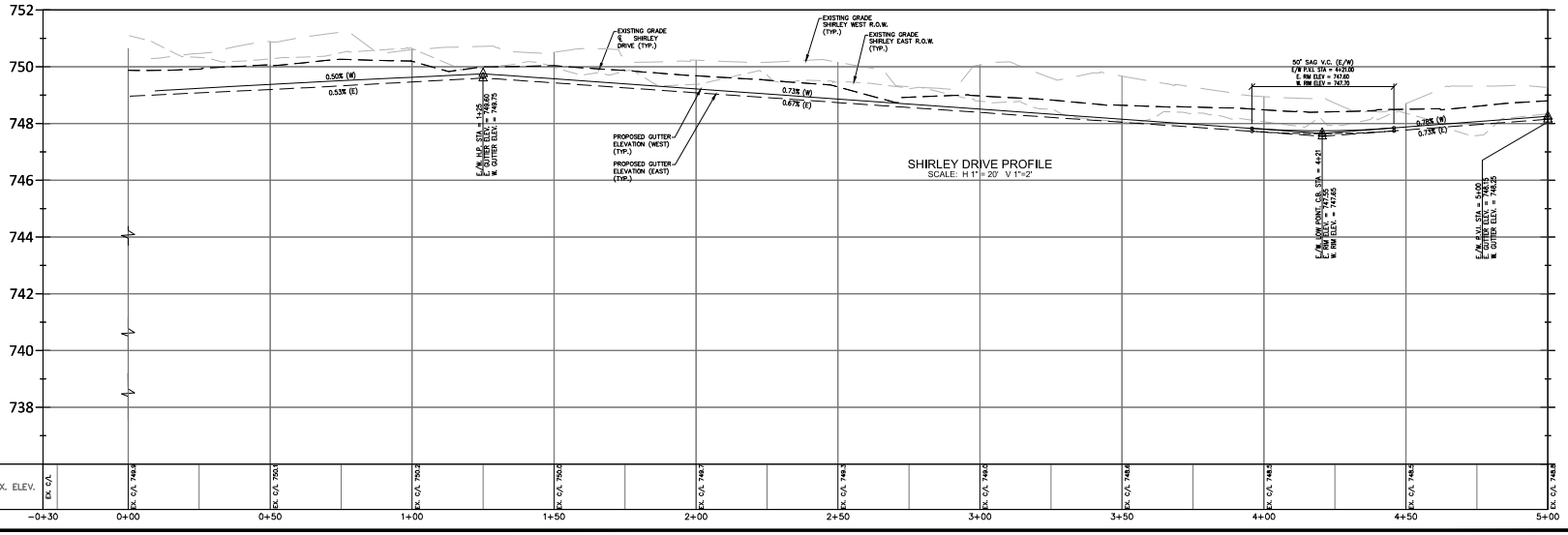
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C34

8F





LEGEND

EXISTING SAN./COMB SEWER
EXISTING WATER MAIN
EXISTING STORM SEWER
EXISTING BURIED CABLES
EXISTING GAS MAIN
OVERHEAD LINES
DECORATIVE CURB STOP LOCATION (APPROX.)
LANDSCAPE MCD
EX. SOIL BORING
PUBLIC PHONE
PUMP
SIGN
POST/BOLLARD
PARKING METER
MAIL BOX
ROCK/BOULDER
SPRINKLER VALVE BOX
SPRINKLER HEAD
FOUND PROPERTY MARKER
GROUND ELEVATION
BRICK PAVERS
PR. 6" CONC. SIDEWALK OR DRIVE APPROACH
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

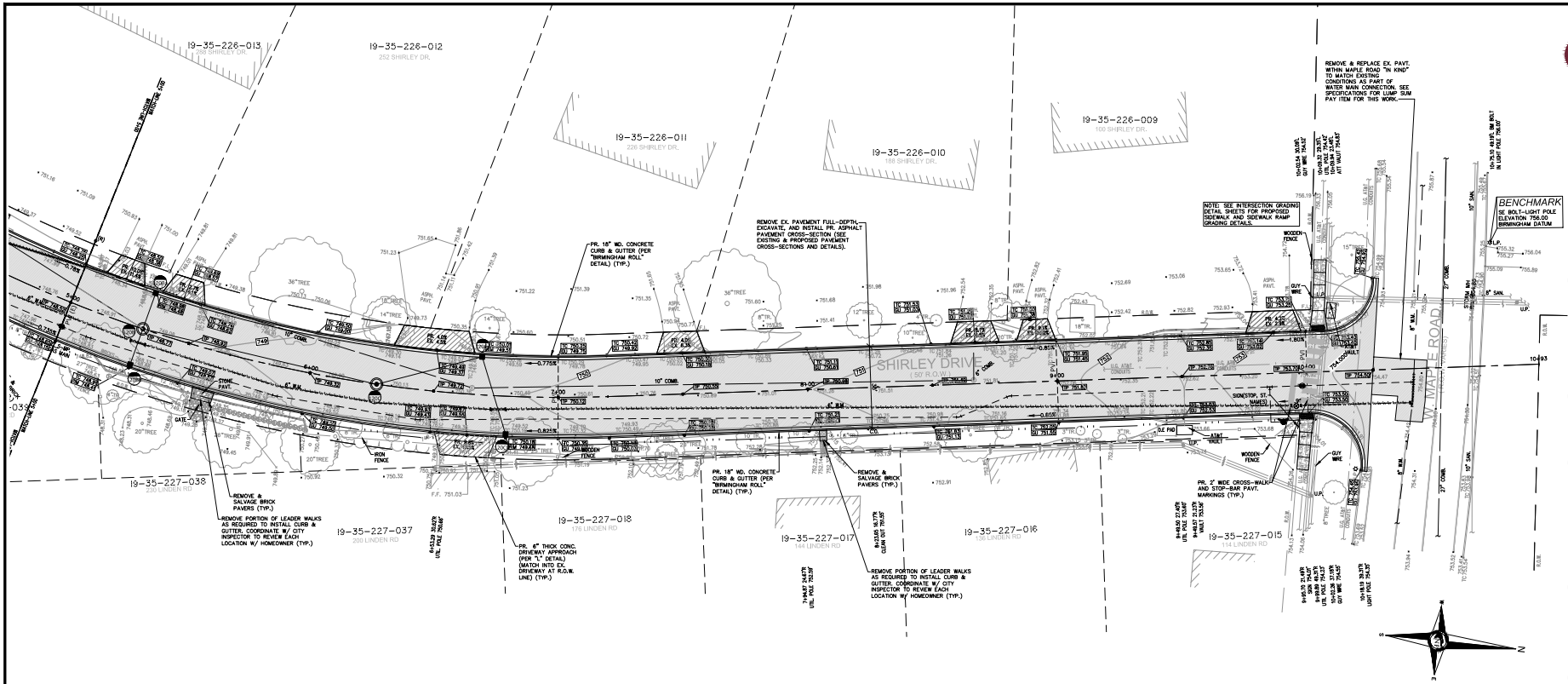
SHEET
Paving & Grading Plan Sta P.O.B. to 5+00 (Shirley - North)

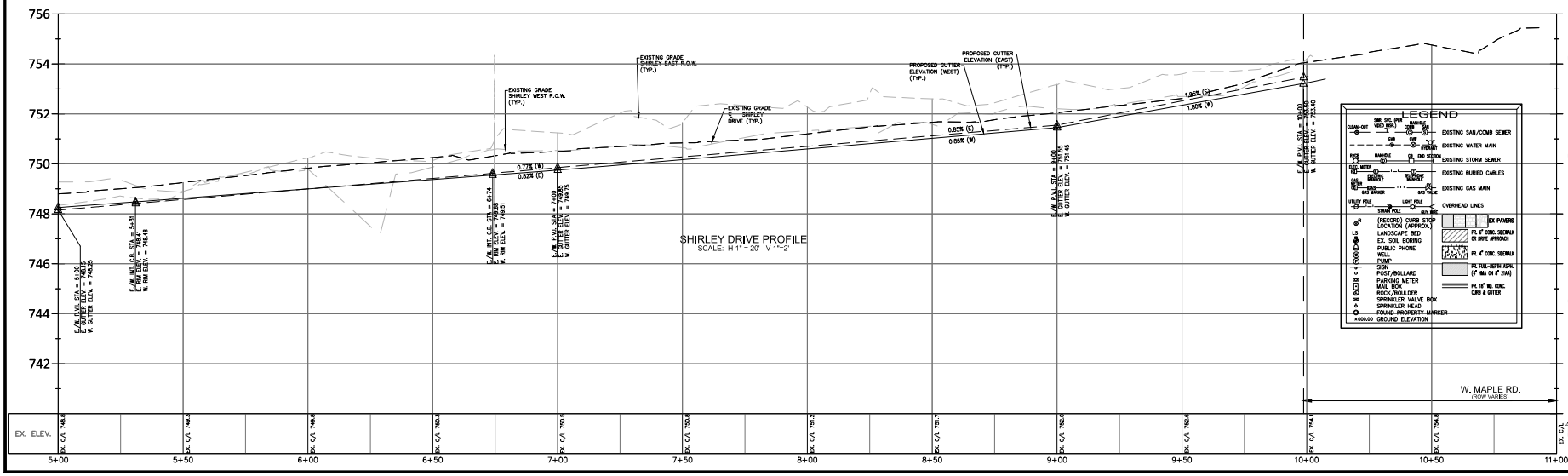
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C35





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LAND PLANNERS

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan Sta 5+00 to P.O.E. (Shirley - North)

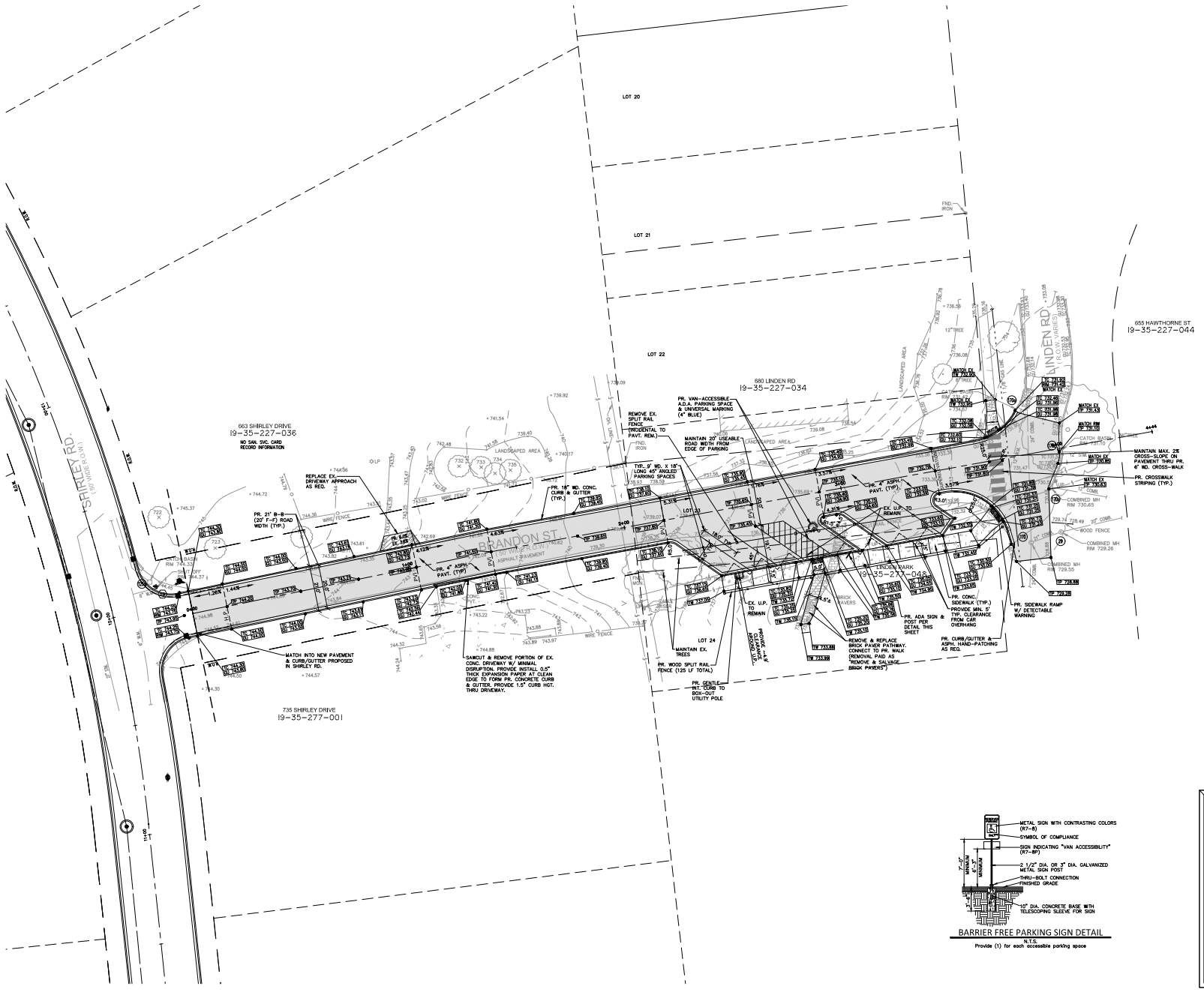
811
Know what's below
Call before you dig.

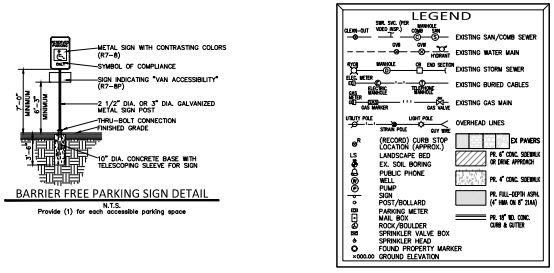
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20' / 1"=2'

NFE JOB NO. N758
SHEET NO. C36

8F





BARRIER FREE PARKING SIGN DETAIL

N.T.S.

Provide (1) for each accessible parking space

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Paving & Grading Plan
Sta P.O.B. To P.O.E. (Brandon St)

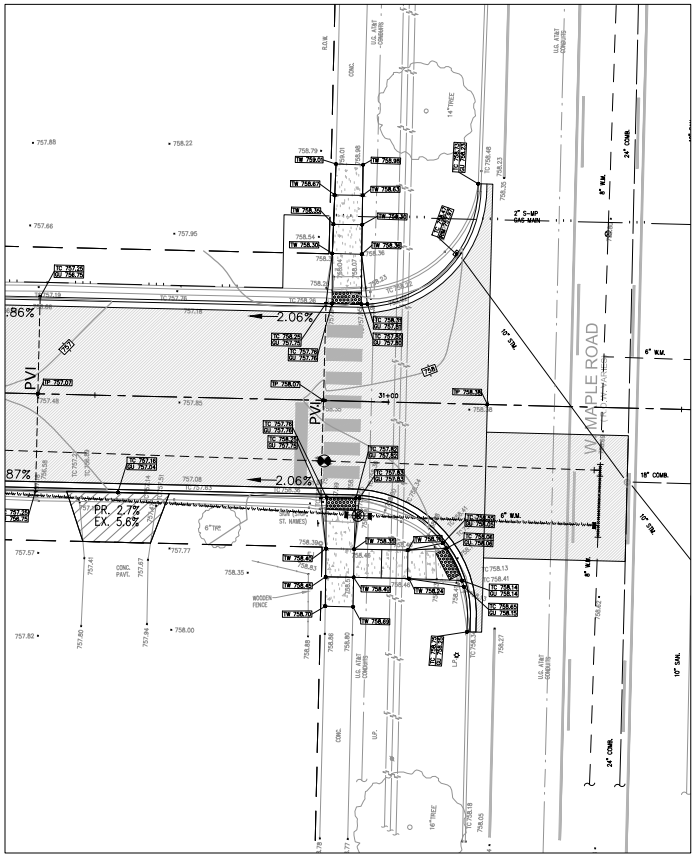
811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

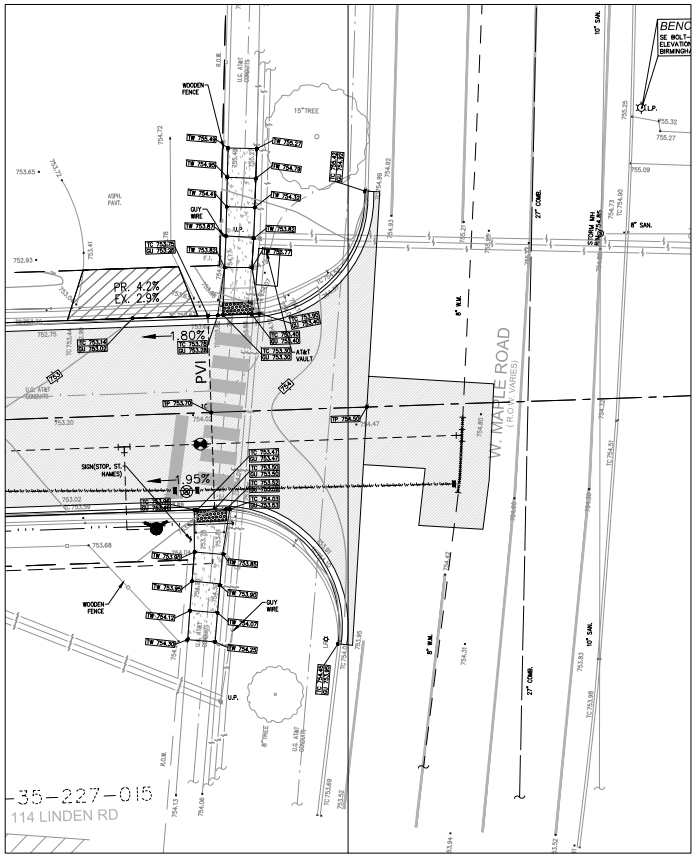
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 20'

NFE JOB NO. N758
SHEET NO. C37

8F



CROSSING AT ARLINGTON ROAD AND W. MAPLE ROAD.



CROSSING AT SHIRLEY DRIVE AND W. MAPLE ROAD.

NF ENGINEERS
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LAND SURVEYORS
LAND PLANNERS

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

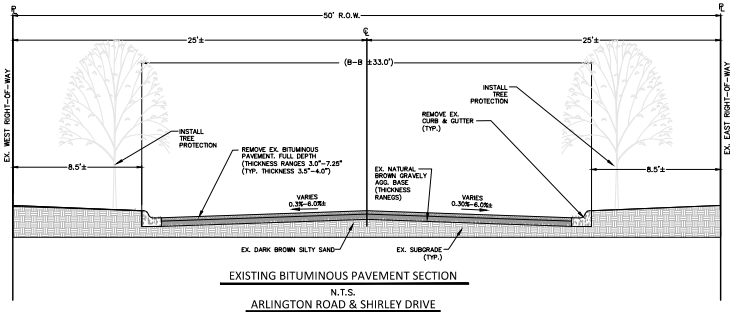
SHEET
Intersection Grading Details

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: 1" = 10'

NFE JOB NO. N758
SHEET NO. C38



EXISTING BITUMINOUS PAVEMENT SECTION

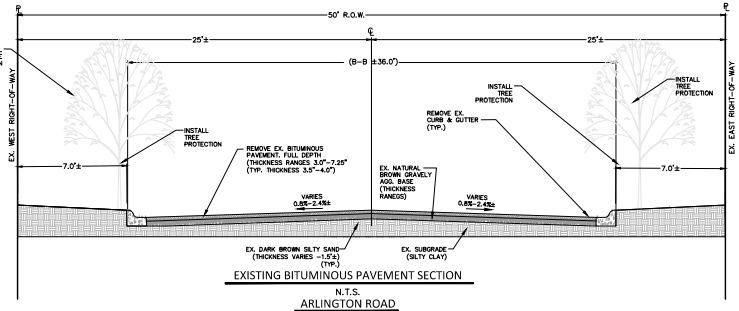
N.T.S.

ARLINGTON ROAD & SHIRLEY DRIVE

APPLIES TO:
ARLINGTON ROAD:
- STA. P.O.B. TO 16+78 & 22+52 TO 30+94
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN 16+78 TO 18+31, 19+75 TO 22+52, AND 30+00 TO P.O.E.

SHIRLEY DRIVE (SOUTH):
- STA. 1+49 TO P.O.E.
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA. P.O.B. TO 1+49.

SHIRLEY DRIVE (NORTH):
- STA. P.O.B. TO 9+33
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA 9+33 TO P.O.E.



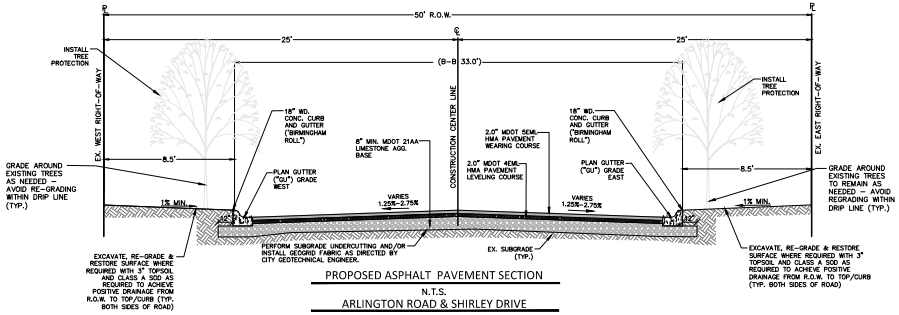
EXISTING BITUMINOUS PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD

APPLIES TO
ARLINGTON ROAD:
- STA. 18+31 TO 19+75

NOTE: REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY G2 CONSULTING GROUP (DATED 3/9/24) FOR DETAILED EXISTING PAVEMENT AND SOILS INFORMATION.



PROPOSED ASPHALT PAVEMENT SECTION

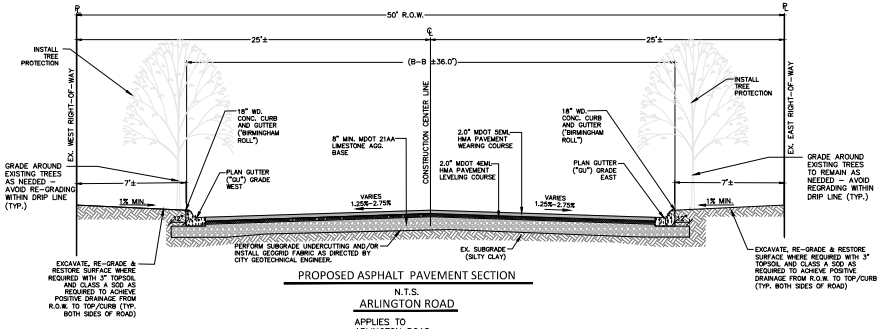
N.T.S.

ARLINGTON ROAD & SHIRLEY DRIVE

APPLIES TO:
ARLINGTON ROAD:
- STA. P.O.B. TO 16+78 & 22+52 TO 30+95
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN: 16+78 TO 22+52 AND 30+95 TO P.O.E.

SHIRLEY DRIVE (SOUTH):
- STA. 1+49 TO P.O.E.
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA. P.O.B. TO 1+49.

SHIRLEY DRIVE (NORTH):
- STA. P.O.B. TO 10+00
- ROAD WIDTH TRANSITIONS OCCUR BETWEEN STA 10+00 TO P.O.E.



PROPOSED ASPHALT PAVEMENT SECTION

N.T.S.

ARLINGTON ROAD

APPLIES TO
ARLINGTON ROAD:
- STA. 18+31 TO 19+75

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CIVIL ENGINEERS
LAND SURVEYORS
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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
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Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

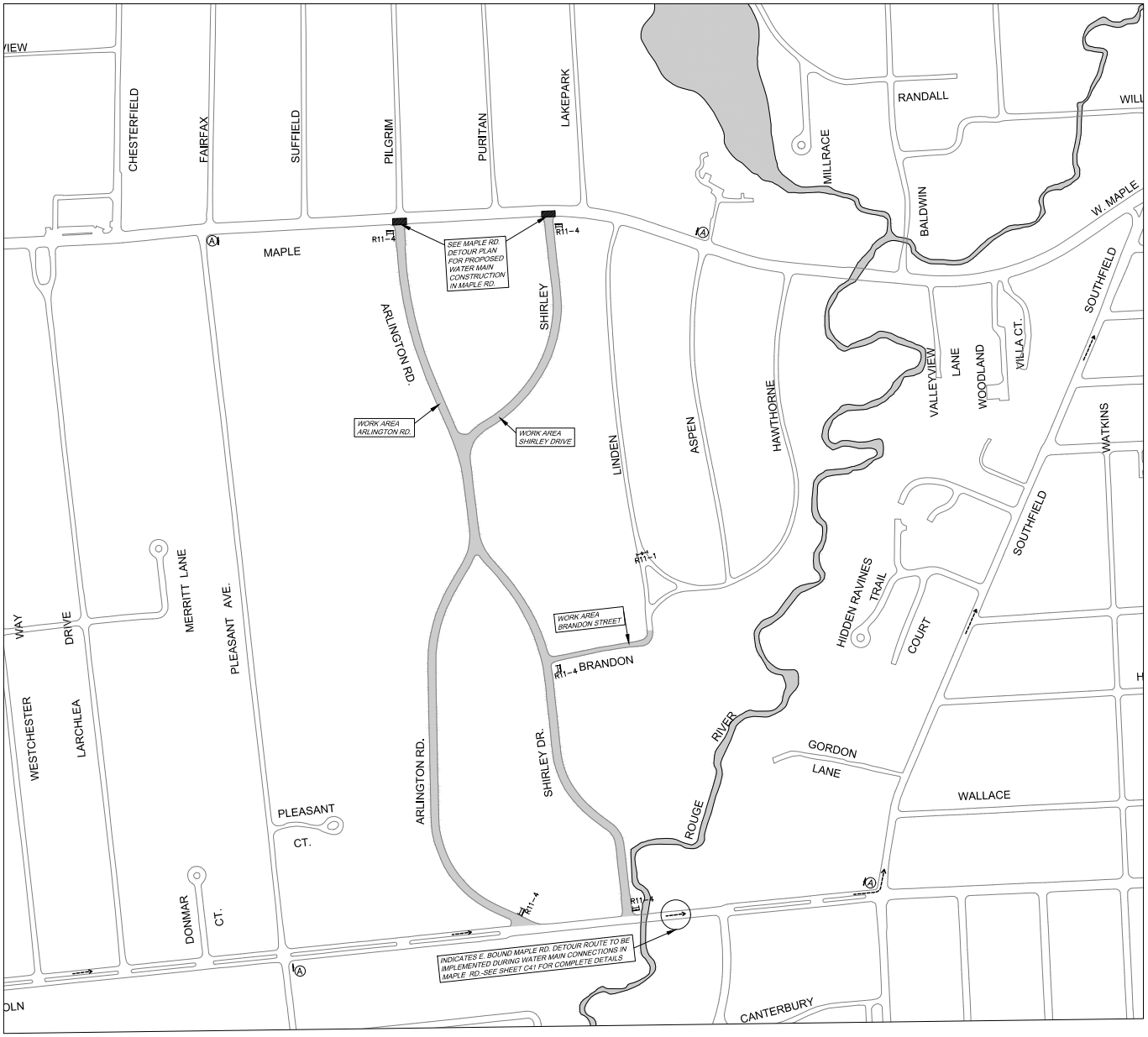
SHEET
Exisiting and Proposed Road Cross-Sections

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C39



ADVANCED WARNING SIGNAGE PLAN: ARLINGTON ROAD & SHIRLEY DRIVE

ARLINGTON RD. AND SHIRLEY DR. CLOSED TO THRU TRAFFIC SEEK ALT. ROUTE

36"x72" ADVANCE WARNING SIGN "A"
BLACK LEGEND ON ORANGE BACKGROUND

SYMBOL KEY

- TYPE III BARRICADES
- ADVANCED WARNING SIGN
- DETOUR

SPECIAL ADVANCED WARNING SIGN QUANTITIES

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
SIGN "A"	ARLINGTON RD. AND SHIRLEY DR. CLOSED TO THRU TRAFFIC SEEK ALT ROUTE	36"x72"	4

OTHER ADVANCED WARNING SIGN QUANTITIES AS SHOWN

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
R11-2	ROAD CLOSED	60"x30"	T.B.D.
R11-4	ROAD CLOSED FOR THRU TRAFFIC	60"x30"	T.B.D.

NOTES

1. PLACE TRAFFIC CONTROL DEVICES AS SPECIFIED, OR AS OTHERWISE DIRECTED BY THE CITY OF BIRMINGHAM, INCLUDING ADVANCE WARNING SIGNS AND BARRICADES NOT SPECIFIED ON THIS DIAGRAM. CONTRACTOR/INSPECTOR MUST ACCOMPANY SIGN SUBCONTRACTOR DURING PLACEMENT OF SIGNS THROUGHOUT VARIOUS TRAFFIC CONTROL CHANGES.
2. ALL SIGNS AND BARRICADING SHALL BE IN ACCORDANCE WITH CURRENT M.M.U.T.C.D. AND M.D.O.T. SPECIFICATIONS AND TRAFFIC TYPICALS, INCLUDING PLACEMENT OF ADDITIONAL REQUIRED SIGNS/BARRICADES NOT DEPICTED ON THESE PLANS TO CONTROL TRAFFIC, LANE SHIFTS, ETC.
3. ADVANCE WARNING SIGNS AND BARRICADES SHALL REMAIN IN PLACE UNTIL THE NEW ROAD (OR A PORTION THEREOF) IS READY TO BE OPENED FOR TRAFFIC AS DETERMINED BY THE CITY.
4. MAINTAIN SIDEWALKS AND INSTALL & MAINTAIN FENCING & SIGNAGE AS NEEDED TO ENSURE PEDESTRIAN SAFETY. UTILIZE MAINTENANCE AGGREGATE AS REQUIRED.
5. ERECT, REMOVE, AND/OR MAINTAIN ALL ADVANCE WARNING/DETOUR SIGNAGE AS DIRECTED BY THE CITY.
6. TYPE III BARRICADES (LIGHTED) SHALL BE PLACED FOR ALL LANE CLOSURES, AND SHALL INCLUDE A R11-2 OR R11-4 SIGN ON EACH TYPE III BARRICADE WHERE NOTED.
7. ALL SIDEWALK CLOSURES WITHIN CITY LIMITS SHALL HAVE TYPE III BARRICADES AND INCLUDE A SIDEWALK CLOSED SIGN. IF SIDEWALK CLOSURES ARE REQUIRED WITHIN M.D.O.T. RIGHT-OF WAY ON WOODWARD AVENUE (M-1), TYPE II BARRICADES SHALL BE USED.
8. LOCAL RESIDENT TRAFFIC (TWO-WAY) SHALL TYPICALLY BE MAINTAINED DURING CONSTRUCTION.
9. CONTRACTOR SHALL PROVIDE ADDITIONAL ADVANCED WARNING SIGNAGE TO INDICATE WHEN FULL-WIDTH CLOSURES WILL BE REQUIRED IN ISOLATED WORK AREAS. PROVIDE ADDITIONAL TYPE III BARRICADES/R11-2,R11-4 SIGNS AT MAPLE, LINCOLN & MIDDLE PORTION OF ARLINGTON FOR BOTH DIRECTIONS OF TRAFFIC.
10. CONTRACTOR SHALL PROVIDE FLAG CONTROL AS REQUIRED THROUGHOUT DURATION OF PROJECT.

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SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Advanced Warning Signage Diagram

811
Know what's below
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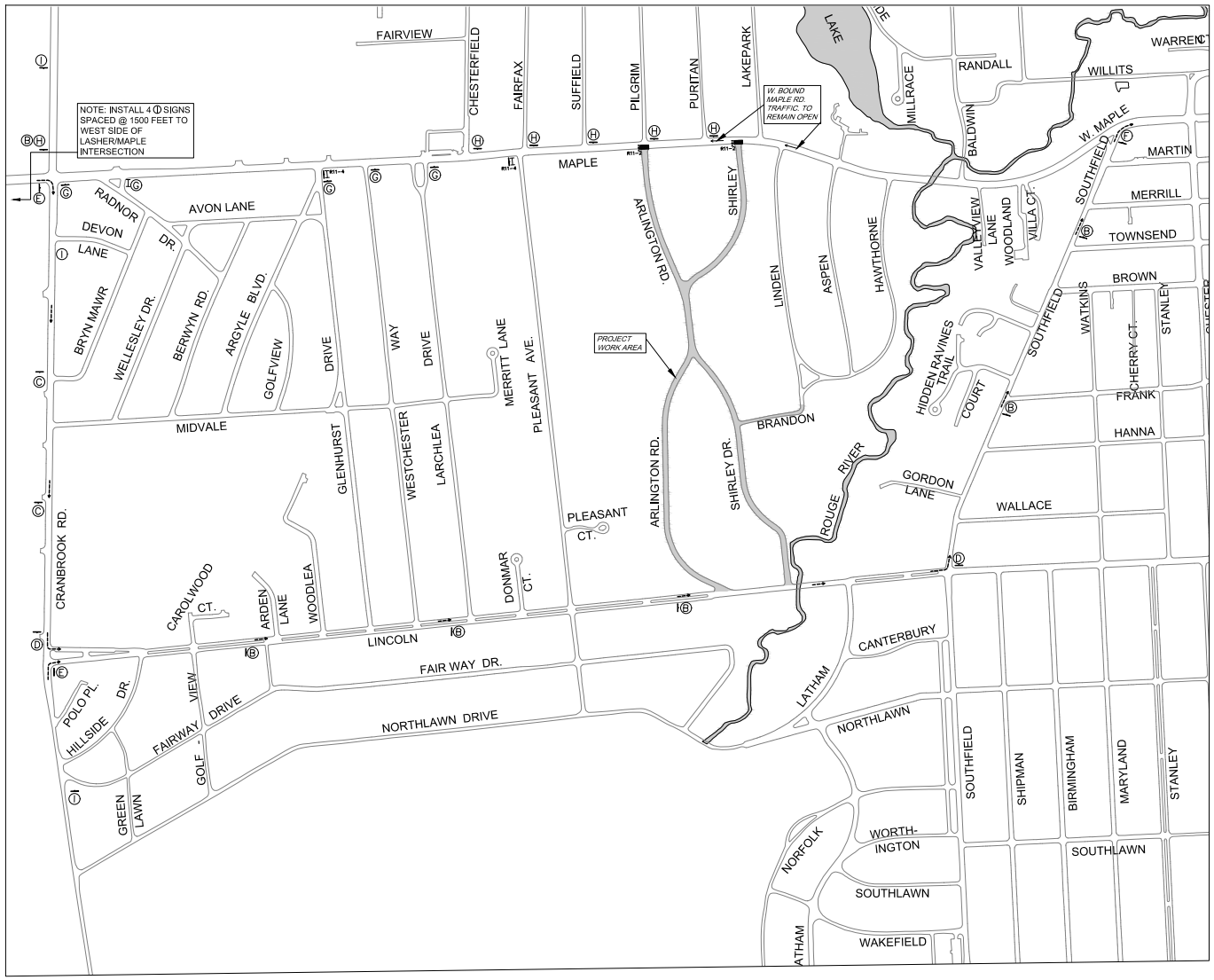
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

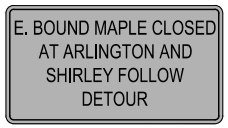
NFE JOB NO. N758
SHEET NO. C40



DETOUR PLAN: MAPLE ROAD (EAST-BOUND TRAFFIC)

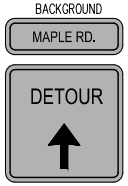
ADVANCED WARNING SIGN "G"
R3-1

ADVANCED WARNING SIGN "H"
R3-2



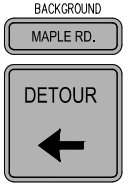
36"x72" ADVANCE WARNING SIGN "I"
BLACK LEGEND ON ORANGE BACKGROUND

10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND



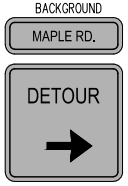
30" x 30"
ADVANCED WARNING SIGN "C"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)

10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND



30" x 30"
ADVANCED WARNING SIGN "D"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)

10" x 30"
ADVANCED WARNING SIGN "B"
BLACK LEGEND ON ORANGE BACKGROUND



30" x 30"
ADVANCED WARNING SIGN "E"
BLACK LEGEND ON ORANGE BACKGROUND
(MOUNT BELOW WARNING SIGN "B" WHERE INDICATED)

24" x 18"
ADVANCED WARNING SIGN "F"
BLACK LEGEND ON ORANGE BACKGROUND

SYMBOL KEY

- TYPE III BARRICADES
- ADVANCED WARNING SIGN
- DETOUR

SPECIAL ADVANCED WARNING SIGN QUANTITIES

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
SIGN "B"	MAPLE RD.	10"x30"	6
SIGN "C"	DETOUR W/ UP ARROW (M.D.O.T. M4-9U)	10"x18"	2
SIGN "D"	DETOUR W/ LEFT ARROW (M.D.O.T. M4-9L)	30"x30"	2
SIGN "E"	DETOUR W/ RIGHT ARROW (M.D.O.T. M4-9R)	30"x30"	2
SIGN "F"	END DETOUR	30"x30"	1
SIGN "G"	NO RIGHT TURN (R3-1)	30"x24"	5
SIGN "H"	NO LEFT TURN (R3-2)	30"x24"	6
SIGN "I"	E. BOUND MAPLE CLOSED AT ARLINGTON AND SHIRLEY FOLLOW DETOUR	36"x72"	3

OTHER ADVANCED WARNING SIGN QUANTITIES AS SHOWN

DESIGNATION	DESCRIPTION	SIZE	QUANTITY
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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Maple Rd. Traffic Detour Diagram

811
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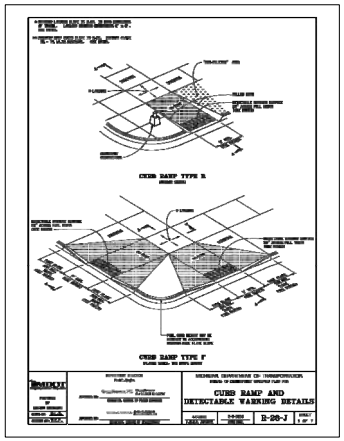
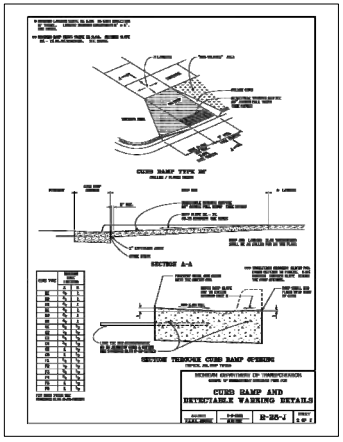
DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

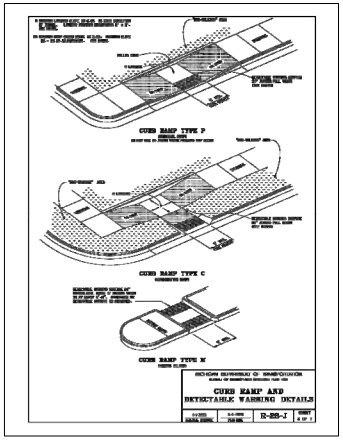
DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

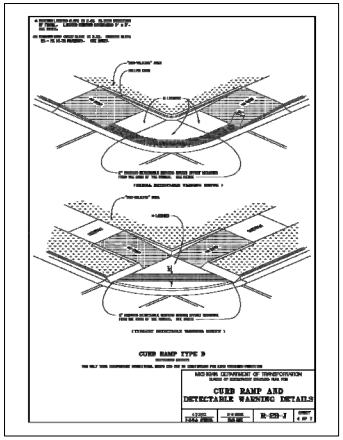
NFE JOB NO. N758
SHEET NO. C41

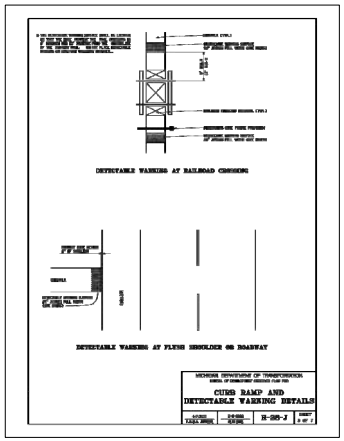
8F

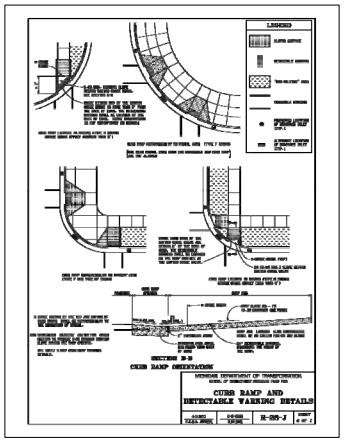


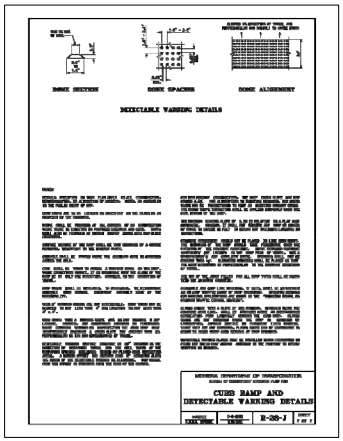












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City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Notes and Details (1of 3)

811
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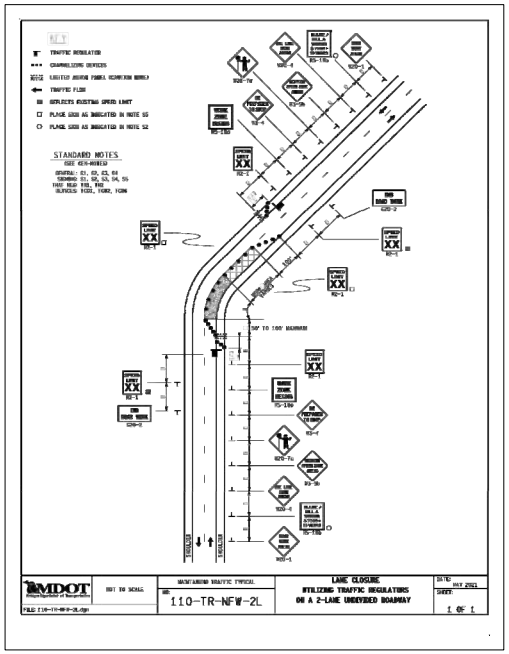
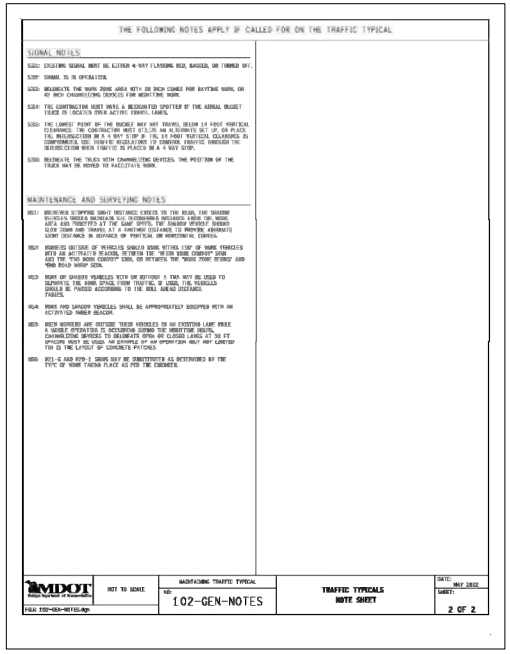
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C42





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Notes and Details (2 of 3)

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DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C43

8F

GENERAL NOTES

1. BRICK PAVERS SHALL BE REMOVED BY MEANS WHICH CAUSE NO DAMAGE TO THE BRICKS. BRICKS SHALL BE DELIVERED TO CITY OF BIRMINGHAM DEPARTMENT OF SERVICES AS DIRECTED BY THE ENGINEER.
2. ALL PAVEMENT TO BE REMOVED SHALL BE SAWCUT FULL DEPTH.
3. ANY GRAVEL REPLACEMENT NECESSARY FOR REGRADING DRIVEWAYS SHALL BE CONSIDERED INCLUDED IN THE COST OF CONCRETE DRIVE APPROACH.
4. ALL TREES NOT INDICATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION. WHERE NECESSARY, TREE ROOTS SHALL BE CUT CLEANLY. AT NO TIME WILL RIPPING OR TEARING OF TREE ROOTS BE ACCEPTABLE.
5. ALL DRIVEWAYS (BEHIND THE SIDEWALK) SHALL BE REPAIRED WITH A CROSS SECTION WHICH MATCHES THE EXISTING IN THICKNESS, OR A MINIMUM 4.0" BITUMINOUS MIXTURE No. 13A. IF THE EXISTING DRIVEWAY IS GREATER THAN 4.0" IN DEPTH, THE THICKNESS OF THE BITUMINOUS MIXTURE No. 13A SHALL BE ADJUSTED TO MAKE UP THE DIFFERENCE.
6. UNLESS OTHERWISE SHOWN, PROPOSED GRADES IN PROFILE ARE TOP OF CURB GRADES.
7. ROCKS, OR OTHER MISC. DEBRIS WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS DIRECTED OTHERWISE FROM THE CITY.
8. THE PAY ITEM "ADJUST STRUCTURE COVER" APPLIES ONLY TO PRE-EXISTING STRUCTURES TO BE ADJUSTED TO PROPOSED GRADES AS PART OF CONSTRUCTION.
9. IF THE CONTRACTOR HAS MULTIPLE CREWS WORKING THAT REQUIRES MULTIPLE CITY INSPECTORS ON A GIVEN WORK DAY, THE PAY ITEM "INSPECTOR CREW DAYS" SHALL BE MULTIPLIED BY THE CORRESPONDING NUMBER OF INSPECTORS REQUIRED DURING SAID WORK DAY.

PAVING NOTES

1. PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

   CONCRETE ROAD: BASE COURSE – 21AA CRUSHED LIMESTONE AGGREGATE (8" THICK)
   MIX – PORTLAND CEMENT TYPE IA (AIR-ENTRAINED), TO COMPLY WITH MDOT 3500HP REQUIREMENTS.

   CONCRETE FLATWORK: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED), WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1.5 TO 3 INCHES. COMPLY WITH MDOT 3500 REQUIREMENTS.

   ALL CONCRETE PAVEMENT AND FLATWORK MIXES USED ON THIS PROJECT SHALL COMPLY WITH A MINIMUM GROUND GRANULATED BLAST-FURNACE SLAG (GGBFS) SUBSTITUTION OF TWENTY-FIVE (25) PERCENT SUBJECT TO SEASONAL LIMITATIONS PER THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION.

   ASPHALT: BASE COURSE – 21AA CRUSHED LIMESTONE AGGREGATE (8" THICK)

   SURFACE COURSE(S):
   ASPHALT ROAD – MDOT HMA MIXTURE NO. 5EML (MAX. APPLICATION RATE 220 POUNDS PER SQUARE YARD)

   LEVELING COURSE(S):
   ASPHALT ROAD – MDOT HMA MIXTURE NO. 4EML (MAX. APPLICATION RATE 220 POUNDS PER SQUARE YARD)

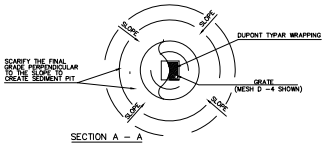
   BOND COAT – MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD
2. PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.
3. ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.
4. ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-S164.
5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2003 EDITION.
6. ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.
7. ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.
8. CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.
9. FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.
10. EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS (INCLUDED IN PAVING WORK).
11. EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.
12. SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.
13. ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.
14. FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.
15. R.A.P. NOT ALLOWED IN SURFACE / TOP COURSE OF ASPHALT.

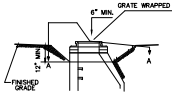
WATER MAIN NOTES

1. ALL WATER MAINS 4" AND LARGER SHALL BE DUCTILE IRON PIPE THICKNESS CLASS 52, WITH PUSH ON TYPE JOINTS PER CITY REQUIREMENTS.
2. NEW WATER MAINS SHALL BE INSTALLED WITH A MINIMUM 5.5 FEET OF COVER. EXCEPTIONS WILL BE ALLOWED WHEN NECESSARY TO CONNECT TO EXISTING MAIN OR WHEN AUTHORIZED BY THE ENGINEER.
3. KNOWN WATER SERVICES BASED ON FIELD INFORMATION OR CITY RECORDS ARE SHOWN ON THE PLANS AS FOLLOWS: "C" = COPPER, "L" = LEAD AND "W.S." = WATER SERVICE TYPE UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING ALL EXISTING SERVICES TO THE NEW MAIN AFTER IT HAS BEEN APPROVED FOR USE.
4. COAT ALL BOLTS ON MECHANICAL FITTINGS WITH TAR.
5. HYDRANT CONNECTION TO CONSIST OF 6" DUCTILE IRON PIPE, 6" GATE VALVE AND BOX, AND HYDRANT. HYDRANT SHALL BE EJIW MODEL 5BR WITH 6" MECHANICAL JOINT INLET, TWO PUMPER INLETS, ALL OPENING LEFT, 5'–6" TRENCH, PLUGGED DRAIN AND BLOCK BOLTS.
6. INSTALL GATE VALVE AS CLOSE TO HYDRANT AS PRACTICABLE.
7. GATE VALVES 4" AND LARGER MAY BE MUELLER BRAND SPECIFIED, OR APPROVED EQUIVALENT. ALL MATERIALS RELATIVE TO WATER SERVICE CONNECTIONS SHALL BE MUELLER BRAND.
8. IN ABANDONING MAINS, THE FOLLOWING SHALL BE DONE: PLUG ALL OPEN PIPE ENDS WITH MASONRY. DISCONNECT MAINS WHICH ARE TO BE ABANDONED FROM FITTINGS AT LIVE MAINS AND PLUG AND BLOCK THOSE FITTINGS. FILL MAIN TO BE ABANDONED WITH GROUT OR HYDRAULIC CEMENT.
9. WORK INDICATED BY (A) SHALL BE PERFORMED AFTER THE NEW MAINS ARE PLACED IN SERVICE.
10. THE LOCATIONS AND TYPES OF SERVICE LEADS IS BASED ON THE BEST AVAILABLE INFORMATION. THE EXACT LOCATION OF SERVICE LEADS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
11. WHERE APPLICABLE, THE APPROPRIATE SECTIONS OF EXISTING WATERMAIN SHALL BE SHUTDOWN AND DEPRESSURIZED PRIOR TO A) CUTTING AND REMOVING, B) CUTTING AND INSTALLING PROPOSED TEE CONNECTIONS, C) PERFORMING ANY AND ALL OTHER WORK AROUND/ADJACENT TO HYDRANTS AND ALL OTHER CONNECTIONS, WHILE MEETING AND/OR EXCEEDING APPLICABLE INDUSTRY SAFETY PRECAUTIONS AND MIOSHA STANDARDS.

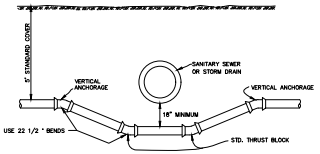
STORM SEWER NOTES (where applicable)

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY. THE MUNICIPALITY STANDARD NOTES, DETAILS AND SPECIFICATIONS SHALL BE INCORPORATED AS PART OF THESE PLANS.
2. ALL STORM SEWER TRENCHES UNDER OR WITHIN THREE (3) FEET OF EXISTING OR PROPOSED PAVEMENT SHALL BE BACK FILLED WITH MDOT CLASS II MATERIAL (SAND) AND BE MACHINE COMPACTED TO A MINIMUM OF 95 OF THE MATERIAL'S MAXIMUM DENSITY. PAVEMENT SHALL INCLUDE PARKING LOTS, DRIVE APPROACHES, 95 CURB & GUTTER AND ADJACENT WALKS.
3. ALL STORM SEWER PIPE SHALL BE INSTALLED ON CLASS "B" BEDDING OR BETTER UNLESS OTHERWISE INCLUDED ON THE PLANS.
4. STORM SEWER SHALL BE OF THE TYPE, SIZE & CLASS DESIGNATION INDICATED ON THE PLANS AND LIKEWISE BE INSTALLED AT THE PROPOSED LINE & GRADE INDICATED.
5. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM SPECIFICATION C–76 CL IV.
6. ALL MAN HOLE, CATCH BASIN, INLET, REAR YARD DRAINAGE STRUCTURES AND COVERS SHALL BE AS INDICATED ON THE PLANS AND CONSTRUCTED IN ACCORDANCE WITH MUNICIPALITY STANDARDS.
7. INSTALL TRAPS ON THE FIRST CATCH BASIN (TYPICALLY A 4' DIAMETER STRUCTURE WITH 2' SUMP) THAT IS UPSTREAM OF ITS CONNECTION TO A MAINLINE STORM OR SEWER MANHOLE, TO CAPTURE FLOATABLES AND TO MINIMIZE ESCAPE OF ODOR.
8. THE CONTRACTOR SHALL NOTIFY MISS DIG (1–800–482–7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
9. EXACT GRADES AND INVERTS OF PROPOSED STORM SEWER ARE TO BE CHECKED WITH THE FIELD ENGINEER PRIOR AND DURING INSTALLATION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY PLAN INCONSISTENCY AND/OR UTILITY CONFLICTS.
10. ALL STORM SEWER PIPE JOINTS SHALL BE "PREMIUM JOINT" MODIFIED GROOVED TONGUE (M.G.T.) WITH SYNTHETIC RUBBER GASKETS CONFORMING TO ASTM SPECIFICATION C–443 & C–361, UNLESS OTHERWISE INDICATED ON THE PLANS.
11. FACILITY MANUFACTURED PRECAST TEE SECTIONS SHALL BE FOR ROOF DRAINS AND/OR SUMP PUMP LEADS AND LATERALS WHERE INDICATED ON THE PLANS. BLIND TOP CONNECTIONS INTO STORM SEWER WILL NOT BE PERMITTED BY BREAKING PIPE WALL.
12. THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL SITE INSPECTIONS.

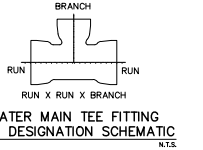




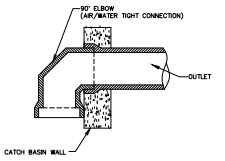
LOW POINT INLET FILTER & SEDIMENT PIT DETAIL
N.T.S.



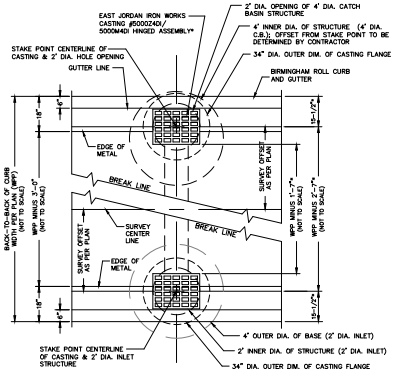
STANDARD SEWER OR STORM CROSSING
N.T.S.



WATER MAIN TEE FITTING SIZE DESIGNATION SCHEMATIC
N.T.S.

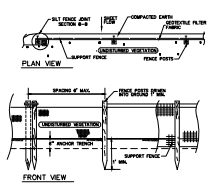


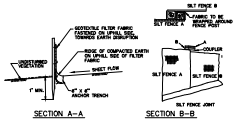
SEWER TRAP
N.T.S.



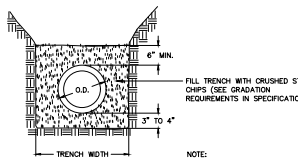
*CONTRACTOR RESPONSIBLE FOR CORRECT ALIGNMENT OF STRUCTURE, CASTING AND CURB AS SPECIFIED, UNLESS OTHERWISE DIRECTED BY CITY.

CURB, CATCH BASIN & INLET ALIGNMENT DETAIL PLAN VIEW
SCALE: 1" = 2'



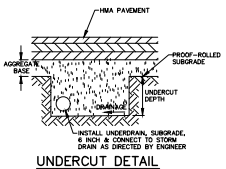


SILT FENCE DETAIL
N.T.S.

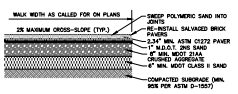


NOTE: APPROVAL MAY BE GIVEN TO ALTERNATE MATERIALS AND METHODS TO ACHIEVE CLASS B BEDDING.

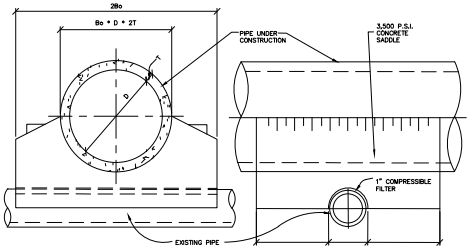
STANDARD PIPE BEDDING
N.T.S.



UNDERCUT DETAIL
N.T.S.

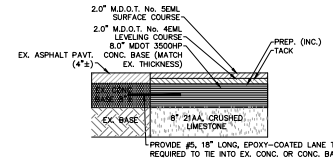


PEDESTRIAN CONCRETE PAVER SECTION (PEDESTRIAN TRAFFIC AREAS)
N.T.S.

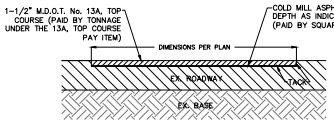


CONCRETE SADDLE REQUIRED WHEN DISTANCE BETWEEN PIPES IS LESS THAN 18 INCHES. COMPRESSIBLE FILTER SHALL BE NEOPRENE CONFORMING TO ASTM D1056, CLASS SBO–11 & CS09

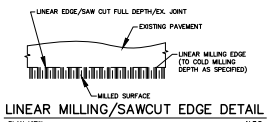
CONCRETE SADDLE OVER EXISTING UTILITIES
N.T.S.



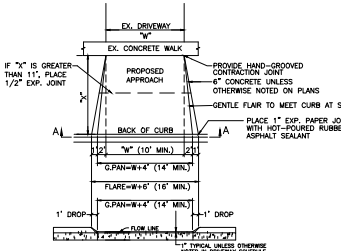
MAPLE RD. COMPOSITE PAVEMENT REPAIR SECTION
N.T.S.



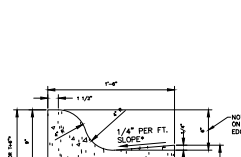
COLD MILL ASPHALT DETAIL
N.T.S.



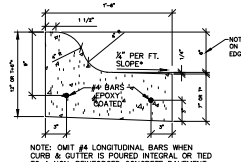
LINEAR MILLING/SAWCUT EDGE DETAIL
N.T.S.



CONCRETE DRIVE APPROACH – DETAIL 'L'
N.T.S.

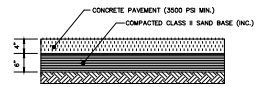


BIRMINGHAM 6" ROLL CURB
CONCRETE CURB & STANDARD GUTTER DETAIL
N.T.S.

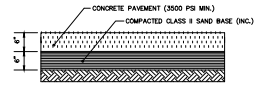


BIRMINGHAM 6" ROLL CURB
CONCRETE CURB & REVERSE GUTTER DETAIL
N.T.S.

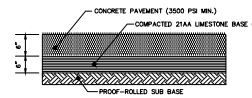
*NOTE: "T" IS EQUAL TO THE THICKNESS & SLOPE IS EQUAL TO THE CROSS–SLOPE OF THE CONCRETE PAVEMENT WHEN CURB & GUTTER IS POURED INTEGRAL TO THE PAVEMENT.



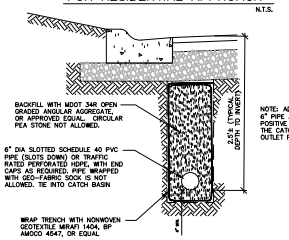
4" CONCRETE SIDEWALK SECTION
STANDARD SIDEWALK REPLACEMENTS/INSTALLATIONS N.T.S.



6" CONCRETE SIDEWALK SECTION
TO MATCH SPECIFIED PAVEMENT THICKNESS THROUGH DRIVE APPROACH N.T.S.



TYPICAL CONCRETE SECTION FOR RESIDENTIAL APPROACH
N.T.S.



6" PERFORATED PIPE UNDERDRAIN DETAIL
N.T.S.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A WALKABLE CITY
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Notes and Details (3 of 3)

Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. C44

BIRMINGHAM CONTRACT #9-24(W) - ARLINGTON RD. AND SHIRLEY DR. WATERMAIN PROJECT PAY ITEMS

NO.	ITEM DESCRIPTION	PAY UNIT	SHEET C1	SHEET C2	SHEET C3	SHEET C4	SHEET C5	SHEET C6	SHEET C7	SHEET C8	SHEET C9	SHEET C10	SHEET C11	SHEET C12	SHEET C13 Utility Service Plan	SHEET C14 Utility Service Plan	SHEET C15 Utility Service Plan	SHEET C16 Utility Service Plan	SHEET C17 Utility Service Plan	SHEET C18 Utility Service Plan	SHEET C25 P&G Plan	SHEET C26 P&G Plan	SHEET C27 P&G Plan	SHEET C28 P&G Plan	SHEET C29 P&G Plan	SHEET C30 P&G Plan	SHEET C31 P&G Plan	SHEET C32 P&G Plan	SHEET C33 P&G Plan	SHEET C34 P&G Plan	SHEET C35 P&G Plan	SHEET C36 P&G Plan	SHEET C37 P&G Plan	TOTAL QUANTITY
	SEWER PAY ITEMS																																	
1	78" Combined Sewer, PVC SDR 26, Trench A	LF								167	269	108																						638
2	72" Combined Sewer, PVC SDR 26, Trench A	LF											212																					212
3	18" Combined Sewer, PVC SDR 26, Trench A	LF											96	35																				736
4	36" Storm Sewer, CTR, CL IV, Trench A	LF	238																															238
5	21" Storm Sewer, CTR, CL IV, Trench A	LF	129	129																														259
6	18" Storm Sewer, CTR, CL IV, Trench A	LF		546																														546
7	15" Storm Sewer, CTR, CL IV, Trench A	LF				32																												32
8	12" Storm Sewer, CTR, CL IV, Trench A	LF		89	261	274	233	422	86		112	92	121	220																				2,015
9	18" Storm Sewer, PVC SDR 26, Trench A	LF								100																								100
10	Sewer Point Repair, 12" Diameter, PVC SDR 26, Trench A	LF			68		48						38																					154
11	Sewer Service, 8" PVC SDR 26	LF													17																				17
12	Sewer Service, 6" PVC, SCH 40	LF													382	239	665	226	351	267														1,930
13	New 4'-0" Diameter Combined Manhole, Construct Online	EA								1		1	1																					3
14	New 4'-0" Diameter Combined Manhole	EA									2		2																					4
15	New 6'-0" Diameter Storm Manhole, Construct Online	EA	1								1																							2
16	New 5'-0" Diameter Storm Catch Basin w/ 2' Sump & Dual Inlet Grates	EA											2																					2
17	New 5'-0" Diameter Storm Catch Basin w/ 2' Sump	EA	4	2																														6
18	New 4'-0" Diameter Storm Manhole, Construct Online	EA					1																											1
19	New 4'-0" Diameter Storm Manhole w/ 2' Sump	EA					1		1					2																				4
20	New 4'-0" Diameter Storm Manhole	EA				1																												1
21	New 4'-0" Diameter Storm Catch Basin w/ 5' Sump, Construct Online	EA		1		1		1																										3
22	New 4'-0" Diameter Storm Catch Basin w/ 5' Sump	EA			2	1	3	1	1	3	2	1		1																				15
23	New 3'-0" Diameter Storm Inlet	EA		2	1	2	3	2	3	2	3	1		3																				21
24	8" Reinforced Pipe Underdrain (Bid each)	LF	800	1000	1000	400	900	1500	600	500	700	300	300	1000																				4,900
25	Sewer Investigation, Laterals	EA													9	3	14	12	9	8														55
26	Sewer Service Tap, 6"	EA														2		2	10	7														21
27	Sewer Service Connection, 8"	EA													1																				1
28	Sewer Service Connection, 6"	EA													52	1	16	11	1	1														82
29	Sewer Tap, 24"	EA	1																															1
30	Sewer Tap, 12"	EA				1																												1
31	Sewer Tap, 8"	EA					1		1			1	1																					4
32	Sewer Tap, 18"	EA								2																								2
33	Sewer Tap, 6", Midsection	EA	4																															4
34	Install Concrete Saddle at Utility Crossing	EA				1							3	2																				8
35	Reconstruct Manhole (if and where needed)	VF																																100
36	Remove & Replace Structure Cover (as directed by City)	LS																																4,125
37	Remove Ex. Sewer Manhole	EA																																5
38	Remove Ex. Drainage Structure	EA	2	4	2	2	5	6	4	4	1	2	2																					32
39	Remove Ex. 18" Combined Sewer	LF								100	280																							380
40	Abandon Ex. 12" Combined Sewer	LF											290																					290
41	Remove Ex. 18" Combined Sewer	LF									102	124	6																					232
42	Remove Ex. 12" Combined Sewer	LF											11																					11
43	Remove Ex. 10" Combined Sewer	LF											87																					87
44	Remove Ex. 6" Combined Sewer	LF							6																									6
45	Remove Ex. 36" Storm Sewer	LF	12																															12
46	Remove Ex. 12" Storm Sewer	LF		52	15	50	105		20	21																								264
47	Remove Ex. 10" Storm Sewer	LF	64	24		43	38	94	70			40	68																					327
48	Remove Ex. 8" Storm Sewer	LF			36					57	101																							196
49	Remove Ex. 6" Storm Sewer	LF								6																								6
50	Bulkhead Structure, 12" or Less	EA	1	2	1	4	4	2	4	4	2																							24
51	Bulkhead Pipe, Larger than 8"	EA					1																											1
52	CCTV Sewer Acceptance Inspection	LS																																1
	SUBTOTAL, SEWER PAY ITEMS																																	
	WATER MAIN PAY ITEMS																																	
53	Remove Hydrant	EA		1	1	1		1		1	2		1	1																				9
54	Remove Gate Valve Well	EA				2	2	1	1		1			1																				9
55	8" Gate Valve & Well	EA		1	1	3	3	2	1		1		1	1																				13
56	Fire Hydrant Assembly, Complete	EA	1	1	1	1	1	1	0	1	1	0	1	1																				10
57	12" D1, D2, D2 Water Main w/ Polywrap, Trench A	LF							18																									18
58	8" D1, D2, D2 Water Main w/ Polywrap, Trench A	LF	710	492	519	916	575	548	732	520	494	535	413	591																				5,975
59	6" D1, D2, D2 Water Main w/ Polywrap, Trench A	LF	28	28	16	11	16	32	0	20	33	6	12	16																				242
60	12" Water Main Connection to Ex. 12" Water Main	EA							0																									0
61	8" Water Main Connection to Ex. 8" Water Main	EA	1					2					2																					5
62	New Water Service, 2", Trench A, Copper	LF														20																		20
63	New Water Service, 1.5", Trench A, Copper	LF													21	91	28	22	5	29														196
64	New Water Service, 1", Trench A, Copper	LF													13	86	106	38	53	81														401
65	New Water Service, 1", Private Property (Bored), PE3	LF																	66															66
66	Water Service Connection, 2"	EA														1	1																	2
67	Water Service Connection, 1.5"	EA													0	7	5	0	4	2														28
68	Water Service Connection, 1"	EA													7	6	16	0	4	8														42
69	Water Service Connection, 1", Connection at Valve, 550 Shirley	EA														1	1		1	1															5
70	Install Curb Stop & Box, 1"	EA														1	4		1	1															7
71	Hydra-Stop, Valve Size 12"	EA							1																										1
72	Tyton-Stop, 12"	EA																																1
73	Hydra-Stop, Line Stop, 8"	EA																																6
74	Abandon Existing Water Mains, Entire Project	LS																																1
	SUBTOTAL, WATER MAIN PAY ITEMS																																	
	PAVING PAY ITEMS																																	
75	Earth Excavation	CY																			440	660	880	990	770	660	880	440	330	660	880	550	7,600
76	Subgrade Undercutting, 21-24 Limestone	CY																																110
77	Subgrade Undercutting, 4"-12" Limestone	CY																																750
78	Subgrade Geogrid Fabric, Tensar Triax TX7000	SY																																2,100
79	Comma and Salvage Stone Pavers	SF																			0	224	56	224	0	72	6	56	56	168	0	24	224	1,312
80	Removing Concrete Drive Approach	SY																			0	55	57	108	52	71	0	68	36	75	0	0	5	476
81	Removing Asphalt Drive Approach	SY																			70	113	67	71	42	63	27	100	61	0	143	103	11	896
82	Removing Concrete Sidewalk & Ramp (coexisting included)	SY																				1	1	6		21	102					37	10	231
83	Removing Pavement Full Depth (Curb & Gutter included)	SY													1640	1021	1619	2073	2256	2018	2018	1581	1623	1539	1719	1914	2630	1180	21,044					
84	Aggregate Base, MDOT 21AA Limestone, 8"	SY													1640	1640	1640	2686	2356	2123	1648	1648	1672	1180	1648	2131	1480	24,163						
85	Replace Maple Road Composite Pavement at Arlington (Per Detail)	LS																																1
86	Replace Maple Road Composite Pavement at Shirley (Per Detail)	LS																																1
87	Bituminous Mixture No. 4E1M, 2" (F Wearing Course)	TON													157	191	191	260	234	200	159	159	153	112	191	202	150	2,364						
88	Bituminous Mixture No. 4E1M, 2" (C Leveling Course)	TON													157	153	153	260	234	200	159	159	153	112	153	202	150	2,344						
89	Concrete Curb & Gutter (18" Wide, "Birmingham Roll")	LF													800	1021	1091	1372	1323	1062	810	1021	810	597	1052	1081	800	12,918						
90	Concrete Drive Approach, 8"	SY													32	243	149	200	112	111	61	191	91	80	190	109	73	1,644						
91	Concrete Sidewalk, 4"	SF																		270	1760					2646	1110	5,967						
92	Reinstall Salvaged Brick Pavers	SF																									1080	1080						
93	Hardscape Remix, Truncated Domes	SF																		36							54	90						
94	Airport Shoreline Crew	MA	7	2	1	0	3	0	4	6	3	1	0	2																				33
95	Maintenance Aggregate for Entire Project	LS																																1
	SUBTOTAL, PAVING PAY ITEMS																																	
	GENERAL PAY ITEMS																																	
96	Mobilization (Max. 5% of Bid)	LS																																1
97	Traffic Maintenance & Control	LS																																1
98	Inspector Crew Days	DAYS																																
99	Water and Sewer Allowance	LS																																1
100	Pavement Marking, Polyurea, 24 inch Crosshatching, White	LF																							53						107			160
101	Pavement Marking, Polyurea, 24 inch Crosshatching, White	LF																								42						42		84
102	Pavement Marking, Polyurea, 4" inch, White or Blue	LF																															172	172
103	Recessing Pad Mtng. Fabric	SF																																340
104	Salvage Existing Signs	LS																																1
105	Sign, Signs	SF																																68
106	Sign Post, U-Channel	LF																																36
107	Post Split Rail Fence	LF																															125	125
108	Tree Protection, 7" Dia. Or Greater	EA													12	15	10	10	9	12	13	12	7	10	13	15	7	145						
109	Inlets, 4	EA													10	10	10	10	10	10	10	10	10	10	10	10	10	140						
110	Topsoil, 3"	SY													570	480	600	600	580	540	350	500	500	450	500	500	500	8,280						
111	Sod, Class A	SY													570	480	600	600	580	540	350	500	500	450	500	500	500	8,280						
112	Inlet Filter	EA																																
113	Inlet Subbase Fill	EA																																
	SUBTOTAL, GENERAL PAY ITEMS																																	
	ALTERNATE #1 - "SEWAGE RIVER STORM OUTFALL"																																	
	ALTERNATE #1 PAY ITEMS																																	
115	54" Storm Sewer, CTR, CL IV, Trench A	LF																																358
116	12" Storm Sewer, CTR, CL IV, Trench A	LF																																46
117	Remove Ex. MH-164 & Install Contech SCD-12 Water Quality Structure	EA																																1
118	Install Contech CS-0 (Netec Quality Structure	EA																																1
119	New 2'-0" Diameter Storm Manhole, Construct Online	EA																																1
120	New 3'-0" Diameter Storm Manhole	EA																																2
121	New 30" Dia. End Section w/ Rip Screen	EA																																1
122	Natural Stone Rip-Rap, 12"-18"	SY																																20
	SUBTOTAL, ALTERNATE #1 PAVING & GENERAL PAY ITEMS																																	

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
City of Birmingham
Arlington Road & Shirley Drive Watermain Project
Contract#9-24(W)

CLIENT
BIRMINGHAM
A Walkable City
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the Northeast ¼ of Section 35, Town 2 North , Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Quantities

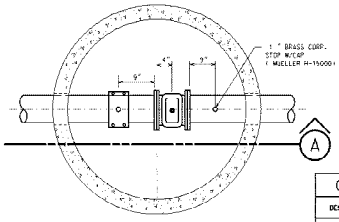
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
02-09-24	ISSUED SURVEY
03-22-24	DRAFT UTILITY PLANS
04-19-24	PERMITS
05-02-24	BIDS

DRAWN BY: K. Saleski
DESIGNED BY: P. Tulikangas
APPROVED BY: B. Buchholz
DATE: February 8, 2024
SCALE: N.T.S.

NFE JOB NO. N758
SHEET NO. Q1

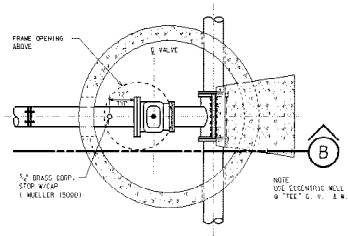
8F



GATE WELL PLAN

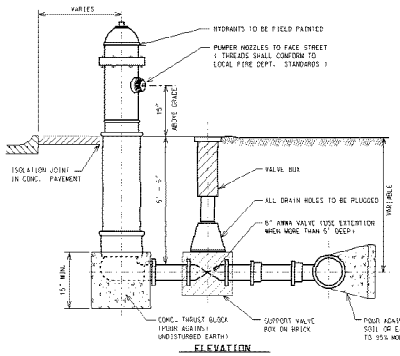
NO SCALE

GATE WELL SCHEDULE				
		PIPE DIA.		INCHES
DESCRIPTION	DIM.	6" & 8"	12"	16"
INSIDE DIA.	A	60"	72"	72"
WALL THICK.	B	5"	7"	7"
VALVE BLOCK THICK.	C	4"	4"	4"

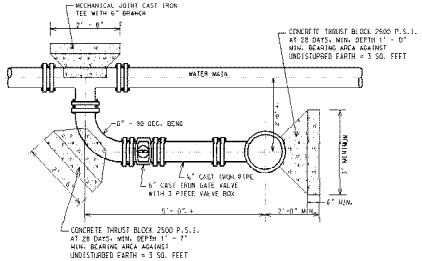


TAPPING SLEEVE, VALVE & WELL PLAN

NO SCALE



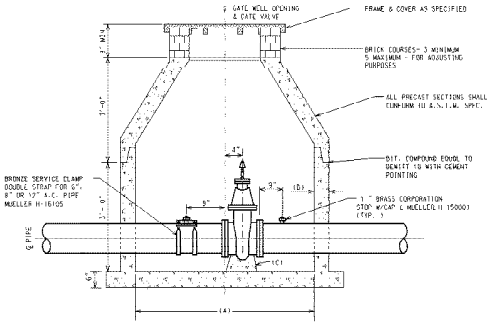
ELEVATION



"L" HYDRANT CONNECTION

NO SCALE

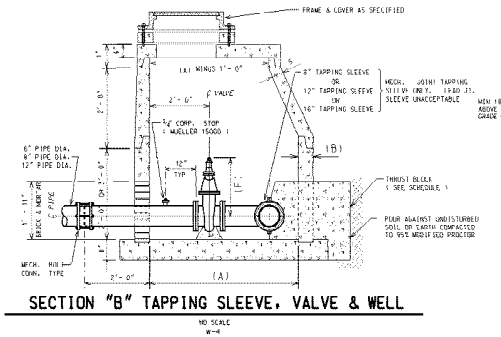
W-9



SECTION "A" GATE WELL

NO SCALE

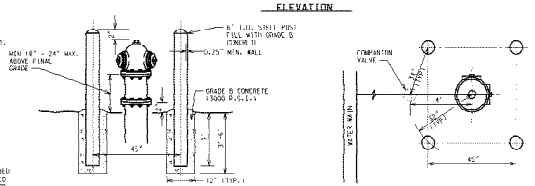
W-1 & W-3



SECTION "B" TAPPING SLEEVE, VALVE & WELL

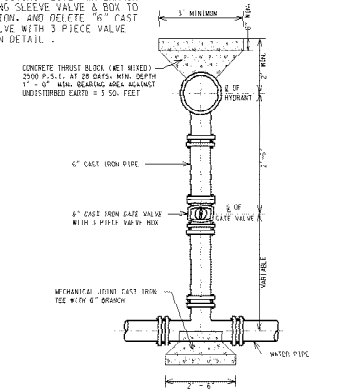
NO SCALE

W-4



FIRE HYDRANT GUARD POSTS DETAIL

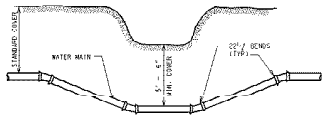
NOTE: FOR CONSTRUCTION OF NEW FIRE HYDRANT TO EXISTING LIVE WATERMAIN USE 6" TAPPING SLEEVE VALVE & BOX TO MAKE CONNECTION. AND DELETE "6" CAST IRON GATE VALVE WITH 3 PIECE VALVE AS SHOWN ON DETAIL .



STRAIGHT HYDRANT CONNECTION

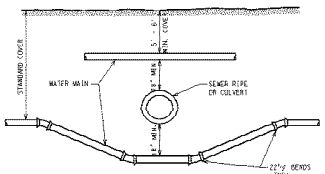
NO SCALE

W-10



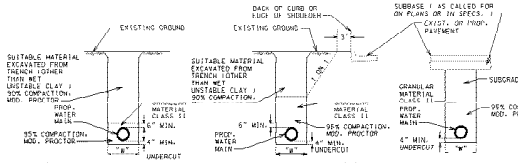
DITCH AND STREAM CROSSING

NO SCALE



SEWER OR CULVERT CROSSING

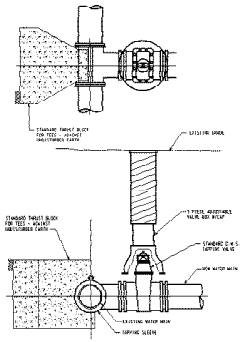
NO SCALE



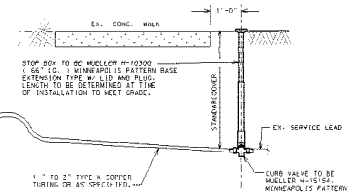
PROP. WATER MAINS NOT UNDER PAVED SURFACE

PROP. WATER MAINS UNDER PAVED SURFACE OR WITHIN INFLUENCE OF PAVED SURFACE

BEDDING DETAILS

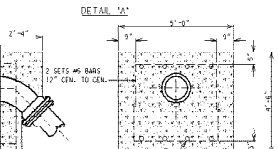


TAPPING SLEEVE & VALVE W/VALVE BOX

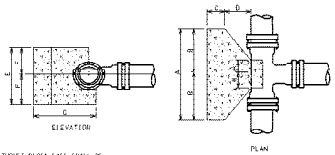


WATER SERVICE CONNECTION (TYP)

NO SCALE



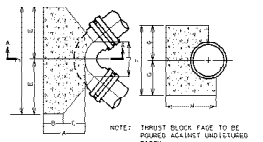
VERTICAL BEND THRUST BLOCKS FOR 8"-12" MAINS



SCHEDULE OF THRUST BLOCK DIMENSIONS			
	TEE SIZE		
CODE	8"x8" 12"x8" 16"x8" 24"x8"	12"x12" 16"x12" 24"x12"	16"x16" 24"x16"
A	1'-0"	1'-0"	1'-0"
B	1'-0"	1'-0"	1'-0"
C	1'-0"	1'-0"	2'-0"
D	1'-0"	1'-6"	2'-0"
E	1'-0"	1'-6"	2'-0"
F	1'-0"	1'-6"	2'-0"
G	1'-0"	1'-6"	2'-0"
H	1'-0"	1'-6"	2'-0"

CONCRETE THRUST BLOCK FOR TEES

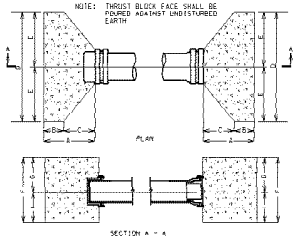
N.T.S.



SIZE	ANGLE	A MIN.	B MIN.	C	D	E	F	G	H MIN.	J
6"	45°	1'-0"	0'-9"	1'-0"	2'-4"	1'-2"	2'-0"	1'-0"	1'-11"	1'-4"
8"	45°	1'-0"	0'-9"	1'-0"	2'-4"	1'-2"	2'-0"	1'-0"	1'-11"	1'-4"
8"	90°	1'-0"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	1'-11"	1'-2"
12"	22-1/2°	1'-0"	0'-9"	1'-0"	2'-6"	1'-1"	2'-0"	1'-0"	2'-0"	1'-4"
12"	45°	1'-0"	0'-9"	1'-0"	3'-6"	1'-9"	2'-6"	1'-3"	2'-0"	1'-4"
12"	90°	1'-0"	0'-9"	1'-0"	5'-0"	2'-6"	3'-0"	1'-6"	2'-0"	1'-5"
16"	22-1/2°	1'-0"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	2'-6"	1'-5"
16"	45°	1'-0"	1'-0"	1'-0"	5'-4"	2'-8"	3'-0"	1'-6"	2'-6"	1'-6"
16"	90°	1'-0"	1'-0"	1'-0"	8'-0"	4'-0"	3'-0"	2'-0"	2'-6"	1'-8"
24"	90°	1'-0"	1'-0"	1'-0"	10'-0"	5'-0"	3'-0"	2'-0"	3'-0"	2'-0"

CONCRETE THRUST BLOCK FOR BENDS

N.T.S.



SIZE	A MIN.	B MIN.	C	D	E	F	G
8"	1'-11"	0'-9"	1'-0"	2'-4"	3'-0"	1'-8"	1'-11"
12"	2'-1"	0'-9"	1'-0"	4'-0"	3'-0"	2'-0"	2'-1"
16"	2'-8"	1'-0"	1'-0"	5'-0"	3'-0"	2'-6"	2'-8"

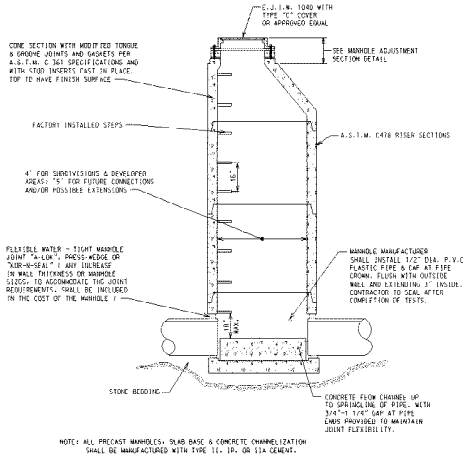
CONC. THRUST BLOCKS FOR PLUGS & CAPS

City of Birmingham

151 MARTIN STREET BIRMINGHAM, MICHIGAN 48102

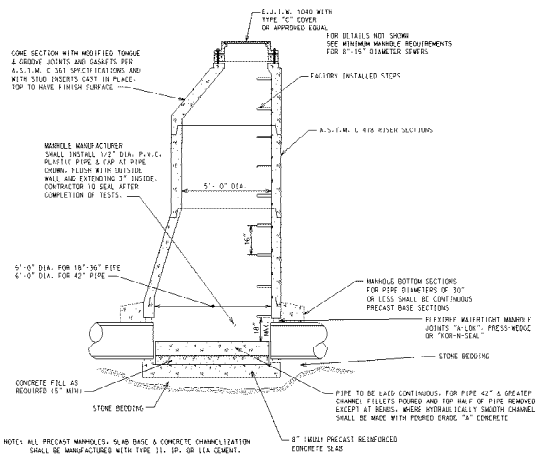
WATER MAIN STANDARD DETAILS

DATE	DESCRIPTION	DRAWN	PROJECT NO.	SHEET NO.
		APPROVED	DATE APRIL 2015	WM-1
		APPROVED	SCALE	



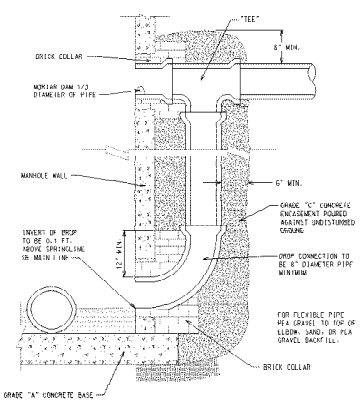
SEWER MANHOLE

(8" THRU 15" DIA. SEWERS)

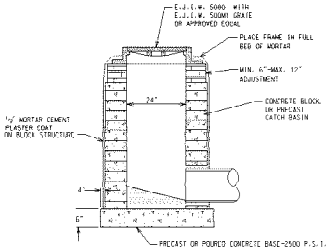


SEWER MANHOLE

(18" THRU 42" DIA. SEWERS)

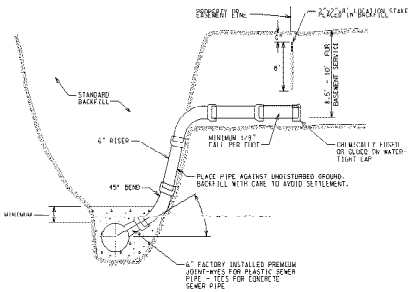


EXTERNAL DROP CONNECTION



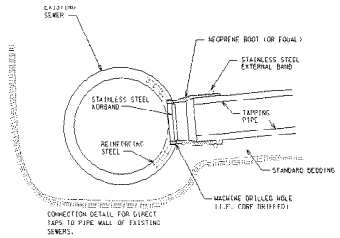
2 FT. DIAMETER INLET

NOTE:
FOR CATCH BASINS OR INLETS WITHIN YARD AREAS USE E.J.I.M. 1040 WITH TYPE "N" COVER OR APPROVED EQUAL



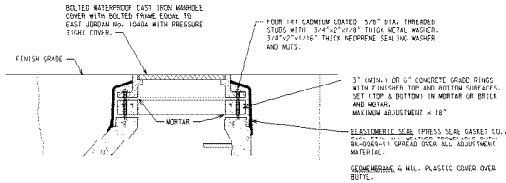
BUILDING LEAD DETAIL

0' - 15' COVER

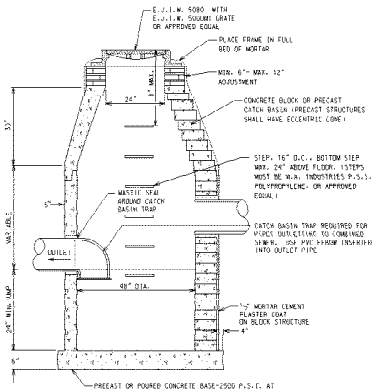


KOR-N-TEE TAP FOR CONCRETE

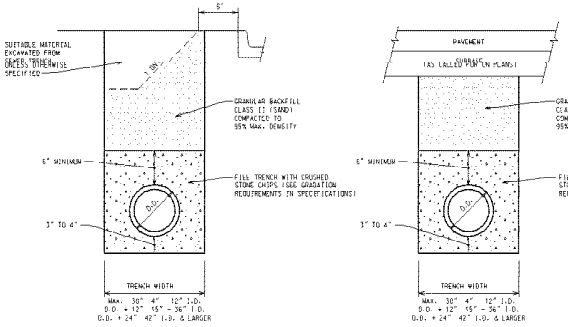
NO SCALE



SANITARY MANHOLE ADJUSTMENT SECTION DETAIL



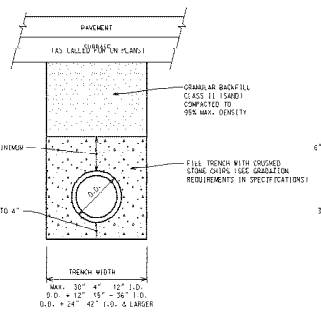
4 FT. DIAMETER CATCH BASIN

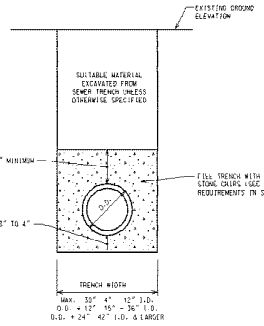


TRENCH DETAIL "A"

SEWER UNDER ROAD BED OR WITHIN THE INFLUENCE OF ROAD BED

NOT TO SCALE

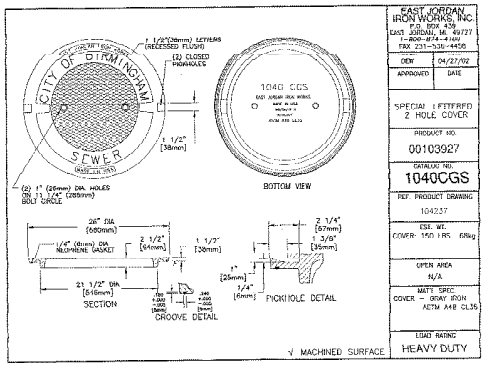




TRENCH DETAIL "B"

SEWER NOT UNDER ROAD BED

NOT TO SCALE



EAST JORDAN IRON WORKS, INC.
P.O. BOX A-3
EAST JORDAN, MI 49727
1-800-874-4444
FAX 231-536-4456

DRN	04/27/02
APPROVED	DATE

SPECIAL LETTERED 2 HOLE COVER

PRODUCT NO.: 00103927

CATALOG NO.: 1040CGS

REF. PRODUCT DRAWING: 104237

ESE, WE: COVER- 150 LBS. 68kg

OPEN AREA: N/A

MATL SPEC: COVER - GRAY IRON ASTM A48 CL35

LOAD RATING: HEAVY DUTY

City of Birmingham

151 MARTIN STREET BIRMINGHAM, MICHIGAN 48102

SEWER STANDARD DETAILS

DATE	DESCRIPTION REVISION	DRAWN	PROJECT NO.	SHEET NO.
		CHECKED	DATE 10/24/01 3:07	
		APPROVED	SCALE	

ARLINGTON ROAD & SHIRLEY DRIVE
WATERMAIN PROJECT
CONTRACT #9-24(W)

CITY OF BIRMINGHAM

ENGINEERING DEPARTMENT

Contractor's Name: DiPonio Contracting, LLC **Copy # 2**

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT # 9-24(W)
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Work Directive

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310 General Instructions to Bidders ____ 4 Pages

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Appendices:

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B: Alternate #1 Sketch "Rouge River Outfall" (11"x17" Sheet) ____ 1 Page

C: Standard Manufacturer Details for Alternate #1 Water Quality Structures ____ 2 Pages

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT #9-24(W)

SWORN STATEMENT OF QUALIFICATIONS

In order to provide the City of Birmingham with Contractors and Subcontractors who will carry out the work in a timely and satisfactory manner, a Sworn Statement of Qualifications must be submitted to the Engineering Division, City of Birmingham, prior to the bid opening by close of business, **5:00 p.m., Thursday May 16, 2024**. The qualifications of the General Contractor and Subcontractors to be used on the project will be reviewed on the basis of the proposed bidder's past performance on sewer, water main, and/or paving work of a similar nature for the City of Birmingham and other owners. Those bidders and bidders' subcontractors who are determined not to be suitable to bid on any work shall be notified in writing of the determination before the bids are opened.

The Bidder must answer all questions. If more space is needed to complete a question, attach a separate sheet.

Name: DiPonio Contracting, LLC

Address: 51251 Simone Industrial Drive, Shelby Township, MI 48316

Telephone: 586-997-4150 Fax: 586-997-4192 Email: bspada@diponiocontracting.com Website: http://www.diponiocontracting.com

Number of Years Operating Under Your Present Name: 28

General Nature of Work Performed: water main, storm sewer, sanitary sewer road building, heavy civil, aggregate base, box culverts

Number of construction crews **employed by your company** relating to the type of work under this contract: 5

Number of construction personnel that constitutes a crew (foreman, pipe layers, excavator, and loader operators, etc.): 8

Number of construction crews the company **will place on site full-time** in order to complete this project, in its entirety, within the designated time frame: up to 2

The undersigned states that he/she has performed sewer and/or paving work similar in character and condition to that described in the Proposal. List three (3) projects that have been completed over the last three (3) years, including all work performed for the City of Birmingham. The contract amount must be, at minimum, within 50% of the engineer's estimate, except for work that was performed for the City of Birmingham. References provided below the 50% minimum will not be accepted.

REFERENCE PROJECT #1:

Project Name: Fenton Elmwood Subdivision Reconstruction

Owner: City of Fenton

Contact Person: Tim Juidici - OHM Advisors Telephone No.: 248-751-3104

Contract Amount: $ $5,237,376.00

Final Contract Price: $6,016,766.36

Date Completed: Spring 2024

Description of Work Performed:

Water main installation, sanitary sewer repalcement, full road reconstruction in the Elmwood Subdivision in the City of Fenton.

REFERENCE PROJECT#2:

Project Name: Water Main Replacement and Asphalt Resurface 2022 Phase 1

Owner: City of Dearborn

Contact Person: Soud El-Jamaly, PE - Dearborn Telephone No.: 313-801- 8578

Contract Amount: $ 4,020,082.00

Final Contract Price: $ 3,940,963.00

Date Completed: September 2022

Description of Work Performed:

Water main repalcement and pavement rehabilitation in various locations in the City of Dearborn.

REFERENCE PROJECT #3:

Project Name: 2022-2023 DWRF Water Main Replacement Project

Owner: City of Eastpointe

Contact Person: Ryan Kern, PE - AEW, Inc. Telephone No.: 586-726-1234

Contract Amount: $6,317,649.00

Final Contract Price: $6,770,062.00

Date Completed: October 2023

Description of Work Performed:

8" Watermain on Beechwood and 18" Water main along the west side of Gratiot Ave. from 8 Mile Road to 9 Mile Road.

List major work presently under contract:

Name of Project	Percent Complete	Owner	Engineer	Contract Amount
Water main and roads	60 %	City of Swartz Creek	OHM Advisors	$8,216,413
Estates Subdvision	10 %	City of Fenton	OHM Advisors	$5,687,398
Crescents Subdivision	15 %	City of Ann Arbor	City of Ann Arbor	$7,691,342
Eastways and Long Lake	0 %	RCOC	RCOC	$902,889
North Area Sanitary Sewer	0 %	Oxford Township	Sharpe Engineering	$2,962,997

SUBCONTRACTOR INFORMATION:

The Bidder agrees to use the following subcontractors for the performance of the work of their respective trades for this project, unless otherwise approved in writing by the Owner prior to signing of the contract. Contractor shall include, at a minimum, the subcontractor that will perform any work with a total value of 25% or more of the contract total value.

Name, Address & Telephone Number of Subcontractor	Type of Work By Subcontractor	Percentage of Contract Value by Subcontractor
GM & Sons, Inc. 46900 West Rd, Novi, MI 248-956-7939	Concrete	10%
Doan Concrete 3670 Carpenter Rd, Ypsilanti, MI 734-971-4678	Concrete	10%
Nagle Paving 39525 W 13 mile Rd Ste 300 Novi, MI 248-553-0669	Asphalt	12%
Pro-Line Asphalt 11797 29 Mile Rd, Washington, MI 586-752-7730	Asphalt	12%
Eastlund Concrete 3929 Holt Rd, Holt, MI 517-694-0204	Concrete	10%
Dan K's Landscape 28520 Barbera Ln, Grosse Ile, MI 734-671-5691	Landscaping	5%
Tranquility Springs LLC 6024 Hunters Ridge, Washington, MI 586-677-2890	Landscaping	5%
Cadillac Asphalt 2575 S. Haggerty Ste 100, Canton, MI 734-397-8480	Asphalt	12%
Site Solutions, Inc. 4337 E. Grand River, Ste 234 Howell, MI 810-923-0555	Landscaping	5%

CONTRACTOR QUESTIONAIRE:

Have you, at any time, failed to complete a contract?

___ Yes ✓ No

Are there any judgements, claims or suits pending by or outstanding against you?

___ Yes ✓ No

If the answer to either question is Yes, submit details on separate sheet.

List all judgments against your firm due to construction contracts in the last three (3) years. Include separate pages if necessary.

CERTIFICATION

I hereby certify that the above information is true and correct this 15th day of May, 2024.

By: DiPonio Contracting, LLC

Signature and Title: PRESIDENT

Written Name: John C. Mattese

Address: 51251 Simone Industrial Dr.
Shelby Township, MI 48316

STATE OF MICHIGAN)
) SS
County of Macomb)

Subscribed and Sworn to before me, a Notary Public, in and for Macomb County, Michigan,

on this 15th day of May, 2024.

Notary Public

In and for the County of Macomb, MI.

My commission Expires: 7/6/2025

Deanna Schrader
Notary Public of Michigan
Macomb County
Expires 07/06/2025
Acting in the County of Macomb

INSTRUCTIONS

Complete all requested information on this form and submit it to the City of Birmingham at the information shown below before the close of business **5:00 p.m., Thursday May 16, 2024.**

Attention: Mr. Cory Borton, Assistant Director of Engineering
Email: cborton@bhamgov.org

Receipt of the form may be confirmed by calling (248) 530-1850.

Copies of this Sworn Statement form will be sent by email to prospective bidders upon request.

PROPOSAL

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT

CONTRACT #9-24(W)

TO THE CITY OF BIRMINGHAM, MICHIGAN:

The undersigned, being familiarized with the local conditions affecting the cost of the work and the Contract Documents including all those sections listed in the Index, hereby proposes to perform everything noted herein and to provide and furnish all labor, materials, except as otherwise specified, necessary to construct and complete in a workmanlike manner all of the work required to be performed for **2024 Arlington Road & Shirley Drive Watermain Project, Contract #9-24(W)** in conformance with the requirements shown or implied in the above contract documents all of which are hereby made a part of this contract at the following unit prices as here stated and further defined in the specifications.

Bidder has examined copies of all Contract Documents and of following addenda:

Date		Addendum Number

Bidder must write out in words the unit price of each item on the line provided under each pay item.

SEWER PAY ITEMS (BASE BID)					
No.	**ITEMS FOR BID**	**QTY**	**UNITS**	**UNIT PRICE**	**AMOUNT**
1.	18" Combined Sewer, PVC SDR 26, Trench A @Two hundred thirty dollars and 00/100	630	LF	$230.00	$144,900.00
2.	12" Combined Sewer, PVC SDR 26, Trench A @Two hundred dollars and 00/100	312	LF	$200.00	$62,400.00
3.	10" Combined Sewer, PVC SDR 26, Trench A @One hundred fifty dollars and 00/100	134	LF	$150.00	$20,100.00
4.	24" Storm Sewer, C76, CL-IV, Trench A @Two hundred dollars and 00/100	238	LF	$200.00	$47,600.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
5.	21" Storm Sewer, C76, CL-IV, Trench A @Two hundred forty dollars and 00/100	249	LF	$240.00	$59,760.00
6.	18" Storm Sewer, C76, CL-IV, Trench A @ Ninety dollars and 00/100	346	LF	$90.00	$31,140.00
7.	15" Storm Sewer, C76, CL-IV, Trench A @One hundred twenty dollars and 00/100	30	LF	$120.00	$3,600.00
8.	12" Storm Sewer, C76, CL-IV, Trench A @Eighty dollars and 00/100	2,016	LF	$80.00	$161,280.00
9.	10" Storm Sewer, PVC SDR 26, Trench A @ Ninety dollars and 00/100	105	LF	$90.00	$9,450.00
10.	Sewer Point Repair, 12" Diameter, PVC SDR 26, Trench A @Two hundred ten dollars and 00/100	130	LF	$210.00	$27,300.00
11.	Sewer Service, 8" PVC SDR 26 @Two hundred fifty dollars and 00/100	17	LF	$250.00	$4,250.00
12.	Sewer Service, 6" PVC SDR 23.5 @Two hundred dollars and 00/100	1,905	LF	$200.00	$381,000.00
13.	New 4'-0" Diameter Combined Manhole, Construct Online @ Seven thousand dollars and 00/100	3	EA	$7,000.00	$21,000.00
14.	New 4'-0" Diameter Combined Manhole @ Six thousand dollars and 00/100	4	EA	$6,000.00	$24,000.00
15.	New 5'-0" Diameter Storm Manhole, Construct Online @ Six thousand dollars and 00/100	2	EA	$6,000.00	$12,000.00
16.	New 5'-0" Diameter Storm Catch Basin w/ 2' Sump & Dual Inlet Grates @ Six thousand dollars and 00/100	2	EA	$6,000.00	$12,000.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
17.	New 5'-0" Diameter Storm Catch Basin w/ 2' Sump @ five thousand seven hundred dollars and 00/100	6	EA	$5,700.00	$34,200.00
18.	New 4'-0" Diameter Storm Manhole, Construct Online @ four thousand dollars and 00/100	1	EA	$4,000.00	$4,000.00
19.	New 4'-0" Diameter Storm Manhole w/ 2' Sump @ Four thousand five hundred dollars and 00/100	4	EA	$4,500.00	$18,000.00
20.	New 4'-0" Diameter Storm Manhole @ three thousand five hundred dollars and 00/100	1	EA	$3,500.00	$3,500.00
21.	New 4'-0" Diameter Storm Catch Basin w/ 2' Sump, Construct Online @ Three thousand seven hundred dollars and 00/100	3	EA	$3,700.00	$11,100.00
22.	New 4'-0" Diameter Storm Catch Basin w/ 2' Sump @ Three thousand one hundred dollars and 00/100	13	EA	$3,100.00	$40,300.00
23.	New 2'-0" Diameter Storm Inlet @ Two thousand two hundred dollars and 00/100	21	EA	$2,200.00	$46,200.00
24.	6" Perforated Pipe Underdrain (No sock) @ Twenty dollars and 00/100	4,810	LF	$20.00	$96,200.00
25.	Sewer Investigation, Laterals @ four hundred dollars and 00/100	55	EA	$400.00	$22,000.00
26.	Sewer Service Tap, 6" @ Six hundred dollars and 00/100	23	EA	$600.00	$13,800.00
27.	Sewer Service Connection, 8" @ Thirty dollars and 00/100	1	EA	$30.00	$30.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
28.	Sewer Service Connection, 6" @ Twenty dollars and 00/100	55	EA	$20.00	$1,100.00
29.	Sewer Tap, 24" @ Two thousand five hundred dollars and 00/100	1	EA	$2,500.00	$2,500.00
30.	Sewer Tap, 15" @ Two thousand dollars and 00/100	1	EA	$2,000.00	$2,000.00
31.	Sewer Tap, 12" @ Two thousand dollars and 00/100	4	EA	$2,000.00	$8,000.00
32	Sewer Tap, 10" @ One thousand dollars and 00/100	2	EA	$1,000.00	$2,000.00
33.	Sewer Tap, 6", Underdrain @ four hundred dollars and 00/100	4	EA	$400.00	$1,600.00
34.	Install Concrete Saddle at Utility Crossing @ Nine hundred dollars and 00/100	6	EA	$900.00	$5,400.00
35.	Reconstruct Manhole (if and where needed) @ Two hundred fifty dollars and 00/100	100	VF	$250.00	$25,000.00
36.	Remove & Replace Structure Cover (as directed by City) @ Two dollars and 50/100	4,125	LB	$2.50	$10,312.50
37.	Remove Ex. Sewer Manhole @ Eight hundred dollars and 00/100	9	EA	$800.00	$7,200.00
38.	Remove Ex. Drainage Structure @ Seven hundred dollars and 00/100	32	EA	$700.00	$22,400.00
39.	Abandon Ex. 18" Combined Sewer @ fifteen dollars and 00/100	393	LF	$15.00	$5,895.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
40.	Abandon Ex. 12" Combined Sewer @Ten dollars and 00/100	280	LF	$10.00	$2,800.00
41.	Remove Ex. 18" Combined Sewer @Fifty dollars and 00/100	233	LF	$50.00	$11,650.00
42.	Remove Ex. 12" Combined Sewer @ Sixty dollars and 00/100	11	LF	$60.00	$660.00
43.	Remove Ex. 10" Combined Sewer @ Sixty dollars and 00/100	87	LF	$60.00	$5,220.00
44.	Remove Ex. 6" Combined Sewer @ Sixty dollars and 00/100	8	LF	$60.00	$480.00
45.	Remove Ex. 24" Storm Sewer @One hundred dollars and 00/100	13	LF	$100.00	$1,300.00
46.	Remove Ex. 12" Storm Sewer @ Fifty dollars and 00/100	309	LF	$50.00	$15,450.00
47.	Remove Ex. 10" Storm Sewer @ Fifty dollars and 00/100	387	LF	$50.00	$19,350.00
48.	Remove Ex. 8" Storm Sewer @Thirty dollars and 00/100	198	LF	$30.00	$5,940.00
49.	Remove Ex. 6" Storm Sewer @ Sixty dollars and 00/100	8	LF	$60.00	$480.00
50.	Bulkhead Structure, 12" or Less @ Six hundred dollars and 00/100	25	EA	$600.00	$15,000.00
51.	Bulkhead Pipe, Larger than 8" @ Five hundred dollars and 00/100	1	EA	$500.00	$500.00
52.	CCTV Sewer Acceptance Inspection @Ten thousand dollars and 00/100	1	LS	$10,000.00	$10,000.00

SUBTOTAL – SEWER PAY ITEMS (BASE BID)	$ 1,493,347.50

WATER MAIN PAY ITEMS (BASE BID)					
No.	**ITEMS FOR BID**	**QTY**	**UNITS**	**UNIT PRICE**	**AMOUNT**
53.	Remove Hydrant @ Seven hundred dollars and 00/100	6	EA	$700.00	$4,200.00
54.	Remove Gate Valve Well @ Eight hundred dollars and 00/100	9	EA	$800.00	$7,200.00
55.	8" Gate Valve & Well @ Seven thousand two hundred dollars and 00/100	13	EA	$7,200.00	$93,600.00
56.	Fire Hydrant Assembly, Complete @ Six thousand six hundred dollars and 00/100	10	EA	$6,600.00	$66,000.00
57.	12" D.I. CL 52 Water Main w/ Polywrap, Trench A @ Three hundred dollars and 00/100	18	LF	$300.00	$5,400.00
58.	8" D.I. CL 52 Water Main w/ Polywrap, Trench A @ One hundred thirty seven dollars and 00/100	5,523	LF	$137.00	$756,651.00
59.	6" D.I. CL 52 Water Main w/ Polywrap, Trench A @ One hundred forty dollars and 00/100	206	LF	$140.00	$28,840.00
60.	12" Water Main Connection to Ex. 12" Water Main @ Six thousand five hundred dollars and 00/100	2	EA	$6,500.00	$13,000.00
61.	8" Water Main Connection to Ex. 8" Water Main @ Six thousand three hundred dollars and 00/100	5	EA	$6,300.00	$31,500.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
62.	New Water Service, 2", Trench A, Copper @ Ninety dollars and 00/100	20	LF	$90.00	$1,800.00
63.	New Water Service, 1.5", Trench A, Copper @ Seventy five dollars and 00/100	168	LF	$75.00	$12,600.00
64.	New Water Service, 1", Trench A, Copper @ Seventy dollars and 00/100	401	LF	$70.00	$28,070.00
65.	New Water Service", 1", Private Property (Bored), PEX @ Eighty dollars and 00/100	60	LF	$80.00	$4,800.00
66.	Water Service Connection, 2" @ one thousand five hundred dollars and 00/100	2	EA	$1,500.00	$3,000.00
67.	Water Service Connection, 1.5" @ Eight hundred dollars and 00/100	28	EA	$800.00	$22,400.00
68.	Water Service Connection, 1" @ Six hundred dollars and 00/100	42	EA	$600.00	$25,200.00
69.	Water Service Connection, 1", Connection at Meter, 663 Shirley @ six thousand five hundred dollars and 00/100	1	EA	$6,500.00	$6,500.00
70.	Install Curb Stop & Box, 1" @ four hundred fifty dollars and 00/100	7	EA	$450.00	$3,150.00
71.	Hydra-Stop, Insta-Valve 250, 12" @ Thirteen thousand dollars and 00/100	1	EA	$13,000.00	$13,000.00
72.	Hydra-Stop, Line-Stop, 12" @ five thousand dollars and 00/100	1	EA	$5,000.00	$5,000.00
73.	Hydra-Stop, Line-Stop, 8" @ Four thousand five hundred dollars and 00/100	4	EA	$4,500.00	$18,000.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
74.	Abandon Existing Water Mains, Entire Project @ Ten thousand dollars and 00/100	1	LS	$10,000.00	$10,000.00
	SUBTOTAL - WATER MAIN PAY ITEMS (BASE BID)				$ 1,159,911.00

	PAVING PAY ITEMS (BASE BID)				
No.	**ITEMS FOR BID**	**QTY**	**UNITS**	**UNIT PRICE**	**AMOUNT**
75.	Earth Excavation @ Thirty five dollars and 00/100	7,600	CY	$35.00	$266,000.00
76.	Subgrade Undercutting, 21AA Limestone @ Sixty dollars and 00/100	750	CY	$60.00	$45,000.00
77.	Subgrade Undercutting, 1"x3" Limestone @ Fifty five dollars and 00/100	750	CY	$55.00	$41,250.00
78.	Subgrade Geogrid Fabric, Tensar Triax TX130S @ Three dollars and 00/100	2,500	SY	$3.00	$7,500.00
79.	Remove and Salvage Brick Pavers @ four dollars and 00/100	1,812	SF	$4.00	$7,248.00
80.	Removing Concrete Drive Approach @ Twenty five dollars and 00/100	476	SY	$25.00	$11,900.00
81.	Removing Asphalt Drive Approach @ Twenty dollars and 00/100	896	SY	$20.00	$17,920.00
82.	Removing Concrete Sidewalk & Ramp (sawcutting included) @ Twenty dollars and 00/100	231	SY	$20.00	$4,620.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
83.	Removing Pavement Full Depth (Curb & Gutter included) @Eight dollars and 00/100	23,046	SY	$8.00	$184,368.00
84.	Aggregate Base, MDOT 21AA Limestone, 8" @Eighteen dollars and 00/100	24,582	SY	$18.00	$442,476.00
85.	Replace Maple Road Composite Pavement at Arlington (Per Detail) @Fifteen thousand dollars and 00/100	1	LS	$15,000.00	$15,000.00
86.	Replace Maple Road Composite Pavement at Shirley (Per Detail) @Thirteen thousand dollars and 00/100	1	LS	$13,000.00	$13,000.00
87.	Bituminous Mixture No. 5EML (2.0" Wearing Course) @ One hundred fourteen dollars and 60/100	2,344	TON	$114.60	$268,622.40
88.	Bituminous Mixture No. 4EML (2.0" Leveling Course) @ One hundred ten dollars and 50/100	2,344	TON	$110.50	$259,012.00
89.	Concrete Curb & Gutter (18" Wide, "Birmingham Roll") @Nineteen dollars and 70/100	12,350	LF	$19.70	$243,295.00
90.	Concrete Drive Approach, 6" @Eighty dollars and 00/100	1,654	SY	$80.00	$132,320.00
91.	Concrete Sidewalk, 4" @Eight dollars and 00/100	3,067	SF	$8.00	$24,536.00
92.	Reinstall Salvaged Brick Pavers @Seventy dollars and 00/100	105	SF	$70.00	$7,350.00
93.	Handicap Ramp Truncated Domes @Forty five dollars and 00/100	84	SF	$45.00	$3,780.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
94.	Adjust Structure Cover One thousand two hundred @ fifty dollars and 00/100	33	EA	$1,250.00	$41,250.00
95.	Maintenance Aggregate for Entire Project Twenty five thousand @ dollars and 00/100	1	LS	$25,000.00	$25,000.00
	SUBTOTAL - PAVING PAY ITEMS (BASE BID)				$2,061,447.40

GENERAL PAY ITEMS (BASE BID)

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
96.	Mobilization (Max. 5% of Bid) Two hundred fifty thousand @ dollars and 00/100	1	LS	$250,000.00	$250,000.00
97.	Traffic Maintenance & Control @ Forty thousand dollars and 00/100	1	LS	$40,000.00	$40,000.00
98.	Inspector Crew Days 180 One hundred Eighty days @ Six hundred fifty dollars and 00/100	180	DAYS	$650.00	$117,000.00
99.	Water and Sewer Allowance @ Seventy five thousand dollars and 00/100	1	LS	$75,000.00	$75,000.00
100.	Pavement Marking, Polyurea, 24 inch Stop Bar, White @ Thirteen dollars and 25/100	96	LF	$13.25	$1,272.00
101.	Pavement Marking, Polyurea, 24 inch Crosshatching, White @ Thirteen dollars and 25/100	84	LF	$13.25	$1,113.00
102.	Pavement Marking, Polyurea, 4 inch, White or Blue @ Two dollars and 00/100	175	LF	$2.00	$350.00

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
103.	Recessing Pavt Mkrg, Transv @ Three dollars and 25/100	340	SF	$3.25	$1,105.00
104.	Salvage Existing Signs @ Five hundred dollars and 00/100	1	LS	$500.00	$500.00
105.	New Signs @ Fifteen dollars and 00/100	60	SF	$15.00	$900.00
106.	Sign Post, U-Channel @ Twenty dollars and 00/100	96	LF	$20.00	$1,920.00
107.	Wood Split Rail Fence @ Thirty five dollars and 00/100	125	LF	$35.00	$4,375.00
108.	Tree Protection, 3" Dia. Or Greater @ One hundred fifty dollars and 00/100	145	EA	$150.00	$21,750.00
109.	Mulch, 3" @ Twelve dollars and 15/100	600	SY	$12.15	$7,290.00
110.	Topsoil, 3" @ Three dollars and 80/100	6,260	SY	$3.80	$23,788.00
111.	Sod, Class A @ Six dollars and 60/100	6,260	SY	$6.60	$41,316.00
112.	Inlet Filter @ One hundred dollars and 00/100	25	EA	$100.00	$2,500.00
113.	Inlet Sediment Pit @ Two hundred dollars and 00/100	25	EA	$200.00	$5,000.00

SUBTOTAL – GENERAL PAY ITEMS (BASE BID)	$595,179.00
TOTAL BASE BID (SEWER, WATER MAIN, PAVING, AND GENERAL PAY ITEMS)	$5,309,884.90

ALTERNATE #1 - "ROUGE RIVER STORM OUTFALL"

ALTERNATE #1 PAY ITEMS

No.	ITEMS FOR BID	QTY	UNITS	UNIT PRICE	AMOUNT
114.	30" Storm Sewer, C76, CL-IV, Trench A One hundred eighty five @ dollars and 00/100	250	LF	$185.00	$46,250.00
115.	12" Storm Sewer, C76, CL-IV, Trench A @Eighty dollars and 00/100	46	LF	$80.00	$3,680.00
116.	Remove Ex. MH 154 & Install Contech SCX-12 Water Quality Structure One hundred eighty eight @thousand dollars and 00/100	1	EA	$188,000.00	$188,000.00
117.	Install Contech CS-5 Water Quality Structure @Twenty five thousand dollars and 00/100	1	EA	$25,000.00	$25,000.00
118.	New 5'-0" Diameter Storm Manhole, Construct Online @Six thousand two hundred dollars and 00/100	1	EA	$6,200.00	$6,200.00
119.	New 5'-0" Diameter Storm Manhole Six thousand seven hundred @ dollars and 00/100	2	EA	$6,700.00	$13,400.00
120.	New 30" Dia. End Section w/ Bar Screen @Two thousand dollars and 00/100	1	EA	$2,000.00	$2,000.00
121.	Natural Stone Rip-Rap, 12"-18" @ One hundred twenty dollars and 00/100	20	SY	$120.00	$2,400.00

SUBTOTAL – ALTERNATE #1 PAY ITEMS	$ 286,930.00
TOTAL BASE BID:	$ 5,309,884.90
TOTAL BID W/ ALTERNATE #1:	$ 5,596,814.90

TOTAL BASE BID AMOUNT (WRITE OUT IN WORDS):

Five million three hundred nine thousand eight hundred eighty four dollars and 90/100

TOTAL BID W/ ALTERNATE #1 (WRITE OUT IN WORDS):

Five million five hundred ninety six thousand eight hundred fourteen dollars and 90/100

Accompanying this proposal is a certified check, bid bond or bank draft in the amount of five (5) percent of the total bid, payable to the City of Birmingham, Michigan, which it is agreed will be forfeited to the City of Birmingham if the undersigned fails to enter into a contract in conformity with the form of contract incorporated herein, and furnish bonds and insurance as specified within twenty-one (21) days after the contract is awarded to the undersigned or withdraws this bid within sixty (60) days of the date hereof.

In submitting this bid, it is understood that the right is reserved by the City of Birmingham, Michigan to reject any or all bids.

The undersigned hereby agrees to execute a contract with the City of Birmingham, Michigan according to the forms attached hereto and furnish the required bonds, all within twenty-one (21) days after the award of the contract; and will fully complete all work as stated under TIME OF COMPLETION and LIQUIDATED DAMAGES in Supplemental Instructions to Bidders.

The Bidder will identify the business entity as individuals, or if doing business under assumed name, indicate assumed name, partnership (naming partners) and indicate official capacity of persons executing proposal and bid.

Contractor's Name DiPonio Contracting, LLC

CITY OF BIRMINGHAM
CONTRACT #9-24(W)

PROPOSAL
100-14

Street Address 51251 Semco Industrial Dr

City Shelby Township County Macomb

State/Zip Code MI 48316

Telephone 586-997-4150 Fax 586-997-4192

Date May 23, 2024

Signed by [signature]

Print Name: John C. Maltese

Title: President

If a corporation, give state in which incorporated:

Witnessed: [signature]

Print Name: Deanna Schrader

Name of Superintendent Mike Knapp
Supervision & time sequence according to the General Requirements

Give below at least three (3) references as to ability to do work proposed.

Name Brad Brecker Address 46777 Woodward Ave Pontiac, MI

Firm Nowak & Fraus Telephone 248-332-7931

Name Soud El-Jamaly Address 16901 Michigan Ave Dearborn, MI

Firm City of Dearborn Telephone 313-943-2145

Name Mason Ali Address 31001 Lahser Rd Beverly Hills, MI

Firm RCOC Telephone 248-294-9723

Give below the last five (5) projects worked on, including those currently in progress, in chronological order. The names need not all be different from those listed above:

Project #1: Name of Project: Dearborn Watermain Replacement and Streets Phase 3

Date Started August 2023 Finished May 2024

Name Sloud El-Jamaly Address 11801 Michigan Ave Dearborn

Firm City of Dearborn Telephone 313-943-2145

Project #2: Name of Project: Grand Blanc 2023 Water Main Improvements

Date Started January 2024 Finished May 2024

Name Greig Rose Address 203 E. Grand Blanc Rd Grand Blanc

Firm Fleis & VanDenBrink Telephone 810-743-9120

Project #3: Name of Project: Swartz Creek Water Main and Local Road Improvements

Date Started January 2024 Finished October 2024

Name Mitchell Master Address 8083 Civic Drive, Swartz Creek

Firm OHM Advisors Telephone 734-855-9876

Project #4: Name of Project: Ann Arbor Crescents Water Main Replacement Project

Date Started April 2024 Finished October 2024

Name Nicholas Bayley Address 301 E Huron St. Ann Arbor

Firm City of Ann Arbor Telephone 734-794-6410 x 43685

Project #5: Name of Project: Fenton North Fenton Estates Subdivision Reconstruct

Date Started April 2024 Finished November 2024

Name Connor Lamb Address 2365 Pontiac Rd Ste 201 Auburn Hills

Firm OHM Advisors Telephone 248-751-3114

Give below all the subcontractors to be used on the project: If additional space is necessary, please use the back of this page. Should the contractor wish to use any subcontractors that are not on this list after award, the contractor shall submit a written request to the Engineer and obtain authorization for same, prior to proceeding. All subcontractors not listed must receive written approval from the City of Birmingham, prior to working on this project.

Name DALE MCINTYRE Address 39255 COUNTRY CLUB DR FARMINGTON HILLS

Firm CADILLAC ASPHALT LLC Telephone 248-388-7074

Type of Work to be Performed: ASPHALT

Name SCOTT BRAYTON Address 3929 E HOLT ROAD PO BOX 368 HOLT

Firm EASTLAND CONCRETE CORP, INC. Telephone 517-694-0204

Type of Work to be Performed: CONCRETE

Name TONY MAGGIANO Address 24806 INDUSTRIAL HWY WARREN

Firm STATE BARRICADES, INC Telephone 586-756-8280

Type of Work to be Performed: TRAFFIC CONTROLS + SIGNS

Name NICK SHIA Address 1965 BARRETT DRIVE TROY

Firm P.K. CONTRACTING, INC. Telephone 248-362-2130

Type of Work to be Performed: PAVEMENT MARKINGS

Name _____ Address _____

Firm _____ Telephone _____

Type of Work to be Performed: _____

Name _____ Address _____

Firm _____ Telephone _____

Type of Work to be Performed: _____

END OF SECTION

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

CONTRACT

THIS AGREEMENT made the _____ day of_____, 2024, by and between the CITY OF BIRMINGHAM, Oakland County, Michigan, hereinafter called the "City", and DiPonio Contracting, LLC of Shelby Township, County of Macomb, State of Michigan, hereinafter called the "Contractor", relative to Contract No. 9-24(W), otherwise known as: ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROEJCT in the amount of $5,596,814.90 to wit:

1. The documents consisting of RFP, including all exhibits and the General Contract Conditions, and the Bid shall be incorporated herein by reference, shall become a part of this Agreement, and shall be binding upon both parties hereto. If there is a conflict between these documents, this Agreement shall control, then the RFP, and then the Bid.

2. The Contractor shall furnish all labor, materials, and appliances necessary, and to all the work as set forth in the Proposal, and in accordance with the plans and specifications, which have been made a part of this agreement in a manner, time and place, as therein set forth.

    a. The Contractor shall provide a Performance Bond, which form is attached hereto and incorporated herein by reference to protect the City and conditioned upon the faithful performance of the contract in accordance with the plans, specifications, and terms hereof.

    b. The Contractor shall provide a Payment Bond which form is attached hereto and incorporated herein by reference for the protection of the claimants as defined in MCL §129.201(6) to supply labor or materials to the principal Contractor or his Subcontractor and the prosecution of the work provided for in this contract.

3. Time is of the essence of this agreement. All the work to be performed by the Contractor shall be completed on or before the Time of Completion, as set forth in the Supplemental Instructions to Bidders. The Contractor shall pay to the City as liquidated damages, the amount per day as set forth under Liquidated Damages in the Supplemental Instructions to Bidders, for each calendar day after the date specified under Time of Completion that the work to be performed by the Contractor is not completed. Liquidated damages are established because of the difficulty in ascertaining actual damages which the City might sustain and are not intended as a penalty.

4. The City promises and agrees to pay said Contractor for all labor, materials and appliances supplied, and for all work performed under this agreement at the unit prices provided in the attached Proposals and Specifications.

5. For the faithful performances of the terms of this agreement, said parties respectively bind themselves, their successors, heirs, executors, administrators, and assigns.

IN WITNESS WHEREOF, the parties execute this agreement as of the day and year first written above.

CITY OF BIRMINGHAM

Attest _____
City Clerk

By: _____
Mayor

Witnessed _____

By: _____
John C. Maltese, President

Contractor

DiPonio Contracting LLC

APPROVAL (1.135 City Code)

_____
City Manager / Assistance

_____
City Attorney as to Form

_____
Director of Finance as to Financial Obligation

_____
City Engineer

SECTION 115
IRAN SANCTIONS ACT CERTIFICATION FORM

Pursuant to Michigan Law and the Iran Economic Sanction Act, 2012 PA 517 ("Act"), prior to the City accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must certify that it is not an "Iran Linked Business", as defined by the Act.

By completing this form, the Vendor certifies that it is not an "Iran Linked Business", as defined by the Act and is in full compliance with all provisions of the Act and is legally eligible to submit a bid for consideration by the City.

PREPARED BY
(Print Name)

DATE

TITLE

DATE

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

COMPANY

ADDRESS

PHONE

NAME OF PARENT COMPANY

ADDRESS

PHONE

TAXPAYER I.D.#

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

PERFORMANCE BOND

KNOW ALL PEOPLE BY THESE PRESENTS that we, the undersigned DiPonio Contracting, LLC ,51251 Simone Industrial Drive Shelby Twp., MI 48316 as Principal, and SiriusPoint America Insurance Company, 1 World Trade Center 285 Fulton Street,47th Floor, Suite 47J, New York, NY 10007 as Sureties, are hereby held and firmly bound unto the **CITY OF BIRMINGHAM, MICHIGAN** in the sum of Five-Million Five Hundred Ninety Six Thousand Eight Hundred Fifteen Dollars and No Cents Dollars ($ 5,596,815.00), in lawful money of the United States, for the payment of which we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns this _____ day of _____, 2024.

WHEREAS, the above bounded Principal has entered a certain written contract with the above-named City of Birmingham, Michigan dated _____ day of _____, 2024 for the construction of Arlington Road & Shirley Drive Watermain Project – Contract #9-24W _____ _____ _____, which contract is hereby referred to and made a part hereof as fully and to the same extent as if the same were entirely written herein,

AND THE SAID SURETY, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder of the specifications accompanying the same shall in anywise affects its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or to the work or to the specifications.

NOW, THEREFORE, the condition of the above obligation is such that if the Principal shall fully perform the annexed contract according to the terms thereof, or as such terms may be changed or modified by mutual agreement, and shall guarantee all work furnished against all defects and incidental damage to other property for a period of one (1) year following final acceptance of the work, then this obligation shall be void, otherwise the same shall remain in full force and effect.

This Bond is provided in compliance with and subject to the provisions of Act 213 of the Public Acts of Michigan for 1963, as amended by Act 351 of the Public Acts of Michigan for 1972, also known as MCL §129.201 et. seq.

WITNESSED:

DiPonio Contracting, LLC

John C. Maltese, President
Principal

SiriusPoint America Insurance Company

Gary Nitsche, Attorney-In-Fact

NITGID01_0623

POWER OF ATTORNEY
SIRIUSPOINT AMERICA INSURANCE COMPANY
NEW YORK

KNOW ALL MEN BY THESE PRESENTS: That SiriusPoint America Insurance Company, a New York corporation, having its principal office in the City of New York, pursuant to the following Resolution, which was adopted by the Board of Directors of the Company, to wit:

RESOLVED, that the President, Senior Vice President, Chief Financial Officer, Secretary or Assistant Secretary is hereby authorized to execute Powers of Attorney appointing as attorneys-in-fact selected employees of certain surety companies who shall have the power for and on behalf of the Company to execute and affix the seal of the Company to surety contracts as co-surety.

Does hereby nominate, constitute and appoint:

Kenneth Nitsche, Robert James Nitsche, Robert K. Nitsche, Craig Parker, Gary Nitsche, Jennifer J. Biehle

Its true and lawful attorney-in-fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed; any and all bonds, contracts, agreements of indemnity, and other undertakings in suretyship (NOT INCLUDING bonds without a fixed penalty or financial guarantee bonds) and to bind the Company thereby as fully and to the same extent as if same were signed by the duly authorized officers of the Company, provided, however, that the penal sum of any one such instrument executed hereunder shall not exceed the sum of:

$50,000,000 single bond limit

All acts of said attorneys-in-fact pursuant to the authorities herein given are hereby ratified and confirmed. The executive officers listed above in the Resolution may from time to time and at any time remove any such appointee and revoke the power given to him or her.

The execution of such bonds or undertakings in pursuance of these presents, within one year of the date of issue of these presents, shall be binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in New York, New York, in their own proper persons.

IN WITNESS WHEREOF, SiriusPoint America Insurance Company has caused its corporate seal to be hereunto affixed, and these presents to be signed by its Secretary this 17th day of August in the year 2023.

SiriusPoint America Insurance Company
By: _____
Melissa J. Ralph
Secretary

State of New Jersey }
} ss.
County of Monmouth }

On this 17th day of August 2023, before me, a Notary Public of the State of New Jersey in and for the County of Monmouth duly commissioned and qualified, came Melissa J. Ralph, Secretary, of SiriusPoint America Insurance Company, to me personally known to be the individual and officer described in, and who executed the preceding instrument, and acknowledged the execution of the same, and, being by me duly sworn, deposeth and saith, that she is the officer of the Company aforesaid, and that the seal affixed to the preceding instrument as the corporate seal of said Company, and the said corporate seal and her signature as officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal.

TNAEJA E LEWIS-SCOTT
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES MARCH 31, 2028
COMMISSION: #50208541

Notary Public
My Commission expires
March 31, 2028

State of New Jersey
County of Monmouth

I, Melissa J. Ralph, Secretary, of SiriusPoint America Insurance Company, a New York corporation, do hereby certify that the above and foregoing is a full, true correct copy of Power of Attorney, is still in force and effect and has not been revoked.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 17 day of June, 2024

[SEAL]
SIRIUSPOINT AMERICA INSURANCE COMPANY
CORPORATE SEAL
1979
NEW YORK

Melissa J. Ralph
Secretary

ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

PAYMENT BOND

KNOW ALL PEOPLE BY THESE PRESENTS, that we DiPonio Contracting, LLC of the 51251 Simone Industrial Drive Shelby Twp., MI 48316 hereinafter called the "Principal" and SiriusPoint America Insurance Company 1 World Trade Center 285 Fulton Street,47th Floor, Suite 47J, New York, NY 10007 hereinafter called the "Surety", are held and firmly bound unto those persons known as "Claimants", as defined in MCL §129.206(6) supplying labor or materials to the Principal or his subcontractors and the prosecution of the work provided for in a certain Contract by and between the City of Birmingham and the Principal in the sum of Five-Million Five Hundred Ninety Six Thousand Eight Hundred Fifteen Dollars and No Cents Dollars ($ 5,596,815.00), in lawful money of the United States, for the payment whereof, we bid ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally this _____ day of _____, 2024.

WHEREAS the above named Principal has entered into a Contract with the CITY OF BIRMINGHAM, MICHIGAN dated the _____ day of _____, 2024, wherein said principal has covenanted and agreed as follows, to wit:

To furnish all the labor and materials Arlington Road & Shirley Drive Watermain Project Contract #9-24(W)

and,

WHEREAS this Bond is given in compliance with and subject to the provisions of Act No. 213 of the Public Acts of Michigan for 1963, as amended by Act. No. 351 of the Public Acts of Michigan for 1972, also known as MCL §129.201 et seq.

NOW, THEREFORE, the condition of the above obligation is such that if all persons or claimants as defined in Public Act 213 of 1963 supplying labor or materials to the principal contractor or his subcontractors in the prosecution of the work provided for in the contract are paid, the obligation of this Bond shall be void; otherwise, it shall be in full force and effect.

WITNESSED:

DiPonio Contracting, LLC

John C. Maltese, President
Principal

SiriusPoint America Insurance Company

Gary Nitsche, Attorney-In-Fact
Surety

NITGID01_0623

POWER OF ATTORNEY
SIRIUSPOINT AMERICA INSURANCE COMPANY
NEW YORK

KNOW ALL MEN BY THESE PRESENTS: That SiriusPoint America Insurance Company, a New York corporation, having its principal office in the City of New York, pursuant to the following Resolution, which was adopted by the Board of Directors of the Company, to wit:

RESOLVED, that the President, Senior Vice President, Chief Financial Officer, Secretary or Assistant Secretary is hereby authorized to execute Powers of Attorney appointing as attorneys-in-fact selected employees of certain surety companies who shall have the power for and on behalf of the Company to execute and affix the seal of the Company to surety contracts as co-surety.

Does hereby nominate, constitute and appoint

Kenneth Nitsche, Robert James Nitsche, Robert K. Nitsche, Craig Parker, Gary Nitsche, Jennifer J. Bichle

Its true and lawful attorney-in-fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed; any and all bonds, contracts, agreements of indemnity, and other undertakings in suretyship (NOT INCLUDING bonds without a fixed penalty or financial guarantee bonds) and to bind the Company thereby as fully and to the same extent as if same were signed by the duly authorized officers of the Company, provided, however, that the penal sum of any one such instrument executed hereunder shall not exceed the sum of:

$50,000,000 single bond limit

All acts of said attorneys-in-fact pursuant to the authorities herein given are hereby ratified and confirmed. The executive officers listed above in the Resolution may from time to time and at any time remove any such appointee and revoke the power given to him or her.

The execution of such bonds or undertakings in pursuance of these presents, within one year of the date of issue of these presents, shall be binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in New York, New York, in their own proper persons.

IN WITNESS WHEREOF, SiriusPoint America Insurance Company has caused its corporate seal to be hereunto affixed, and these presents to be signed by its Secretary this 17th day of August in the year 2023.

SiriusPoint America Insurance Company

By: _____
Melissa J. Ralph
Secretary

State of New Jersey }
} ss.
County of Monmouth

On this 17th day of August 2023, before me, a Notary Public of the State of New Jersey in and for the County of Monmouth duly commissioned and qualified, came Melissa J. Ralph, Secretary, of SiriusPoint America Insurance Company, to me personally known to be the individual and officer described in, and who executed the preceding instrument, and acknowledged the execution of the same, and, being by me duly sworn, deposeth and saith, that she is the officer of the Company aforesaid, and that the seal affixed to the preceding instrument as the corporate seal of said Company, and the said corporate seal and her signature as officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal.

TNAEJA E LEWIS-SCOTT
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES MARCH 31, 2028
COMMISSION: #50208541

Notary Public
My Commission expires
March 31, 2028

State of New Jersey
County of Monmouth

I, Melissa J. Ralph, Secretary, of SiriusPoint America Insurance Company, a New York corporation, do hereby certify that the above and foregoing is a full, true correct copy of Power of Attorney, is still in force and effect and has not been revoked.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 17 day of June, 2024

SIRIUSPOINT AMERICA INSURANCE COMPANY
CORPORATE SEAL
1979
NEW YORK

Melissa J. Ralph
Secretary

8F

To: CITY OF BIRMINGHAM
151 MARTIN
P.O. BOX 3001
BIRMINGHAM, MI 48012-3001

Date Submitted: _____

Date Received: _____

REQUEST FOR PARTIAL PAYMENT

Partial Payment Request # ____

The undersigned (the "Contractor") hereby requests payment for work performed on ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT #9-24(W) for the period beginning _____ and ending _____. Attached is an itemized list of completed quantities delivered to date.

During the above period, did Contractor incur additional costs for labor or materials because the bid package was missing important information? _____ (if yes, you must provide details of the additional costs and the missing information).

During the above period, did Contractor incur additional costs for labor or materials because the bid package contained information that was not true? _____ (if yes, you must provide details of the additional costs and the untrue statements).

During the above period, did Contractor incur additional costs for labor or materials because the site conditions were different from what you expected? _____ (if yes, you must provide details of the additional costs and the site conditions, both what you expected and what you encountered).

During the above period, did Contractor incur additional costs for labor or materials because of any reasons not mentioned above? _____ (if yes, you must provide details of the additional costs and the reasons the same were incurred).

The above does not include additional work through work directives issued by the City of Birmingham as described on the attached or as covered by an agreed basis of payment attached. _____.

Contractor hereby certifies, represents and warrants that all suppliers, subcontractors and employees have been paid in full for all materials and labor provided on the job during the above period. Contractor certifies, represents and warrants that there have been no change orders issued or requested during the above period, except for the following:_____

_____.

Contractor certifies, represents and warrants that Contractor will never request payments, other than the request made in this form, for any work performed or materials provided during the above period, except for the following unresolved items: _____

_____.

Attached are the following documents
Further detailing the above.

1. _____
2. _____
3. _____

Contractor:

_____
(Company or Contractor Name)

_____
(Signature of Officer of the Company)

_____
Type or Print Name and Title

CONTRACTOR'S AFFIDAVIT

To: CITY OF BIRMINGHAM
151 MARTIN ST.
P.O. BOX 3001
BIRMINGHAM, MI 48012-3001

Date Submitted_____

Date Received_____

REQUEST FOR FINAL PAYMENT

Payment Request # _____

The undersigned _____
Name of Contractor

hereby represents that on _____ he/she (it) was awarded a contract by
Date

The City of Birmingham hereafter called the Owner to complete construction, in accordance with the terms and conditions of Contract No. 9-24(W), Contract Name ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT; and the undersigned further represent that the subject work has now been accomplished and the said contract has now been completed.

The undersigned hereby warrants and certifies that all of his/her (its) indebtedness arising by reason of the said contract has been fully paid or satisfactorily secured; and that all claims from subcontractors and others for labor and material used in accomplishing the said contract, have been fully paid or satisfactorily settled. The undersigned further agrees that if any such claim should hereafter arise, he/she (it) shall assume responsibility for the same immediately upon request to do so by the Owner.

The undersigned, for a valuable consideration, the receipt of which is hereby acknowledged, does further hereby waive, release and relinquish any and all claims or right of lien which the undersigned now has or may hereafter acquire upon the subject premises for labor and material used in accomplishing said project owned by the Owner.

This affidavit is freely and voluntarily given with full knowledge of the facts on this ____ day of _____, 2024.

Company or Contractor Name:_____

Signature of Officer of Company:_____

Type or Print Name and Title: _____ _____
Name Title

Subscribed and sworn to before me, a Notary Public in and for _____County,

Michigan on this _____ day of _____, 2024.

_____, Notary Public

My commission expires: _____

SWORN STATEMENT

STATE OF MICHIGAN)
) ss:
COUNTY OF OAKLAND)

_____ , being duly sworn, deposes and says that _____ is the Contractor for an improvement to the following described real property situated in the County of Oakland, City of Birmingham, State of Michigan, described as follows:

in accordance with the general requirements of the Contract by and between the CITY OF BIRMINGHAM and _____ the following is a statement of each subcontractor, supplier and laborer for the payment of wages or fringe benefits and withholdings is due but unpaid with whom the (contractor)(subcontractor) has (contracted) (subcontracted) for the performance under the contract with the CITY OF BIRMINGHAM, and that the amounts due to the persons as of the date hereof are correctly and fully set forth opposite their names as follows:

Name of Subcontractor Supplier or Laborer	Type of Improvement Furnished	Total Contract Price	Amount Already Paid	Amount Currently Owing	Amount of Laborer Wages	Amount of Laborer, Fringe Benefits and Withholdings Due but Unpaid
TOTALS						

The contractor has not procured material from, or subcontracted with, any person other than those set forth above, and owes no money for the improvement other than the sums set forth above.

Deponent further says that he or she makes the foregoing statement as the (contractor)(subcontractor) or as _____ of the (contractor)(subcontractor) for the purpose of representing to the CITY OF BIRMINGHAM that the Payment Bond for labor and materials is free from claims for the possibility of claims except as specifically set forth above.

Deponent further says that he or she is a duly authorized representative of the (contractor)(subcontractor) and has been authorized to give this release of all claims against the City arising under or by virtue of contract _____ dated _____.

_____

Deponent

Subscribed and sworn to before me

this ____ day of _____, 2024

_____

Notary Public

_____ County, Michigan

My Commission Expires:

WORK DIRECTIVE

From: CITY OF BIRMINGHAM
151 MARTIN
P.O. BOX 3001
BIRMINGHAM, MI 48012-3001

Time:_____ Date: _____

Work Directive No. _____

To: Contractor:_____

Name and # of Contract: Arlington Road & Shirley Drive Watermain Project, Contract #9-24(W)

The following changed condition(s) is recognized by the City of Birmingham for the above referenced Contract. In order to ensure continuation of the progress of the contract this work directive is issued for the following work described below:

_____

_____

_____

_____

_____

The basis for payment will be: _____ Written Quotation from the contractor.

_____Unit Bid Prices _____ Time and Material

_____Other (describe) _____

A written quotation shall include a detailed description of the tasks involved and the expected timetable to be completed along with a firm quotation for cost.

A time and material basis for work shall be supplemented with agreed quantities and prices between the contractor's field representative authorized to act on behalf of the contractor and the city inspector. It also shall be backed up by unit prices for time, material and equipment supplied to the City in a timely manner. Should this information not be readily available, it shall be provided the following day or a basis for payment shall be agreed to in writing within 24 hours of agreeing to a time and material work directive.

Any other basis shall be approved by all parties in writing before starting work. Should a utility cause the delay, names and approval shall be obtained if possible by their agent.

Approved:

Contractor Supt.	Date	City Inspector	Date	City Engineer	Date

ADVERTISEMENT

CITY OF BIRMINGHAM, MICHIGAN
2024 ARLINGTON ROAD & SHIRLEY DRIVE WATERMAIN PROJECT
CONTRACT #9-24(W)

Sealed proposals endorsed "ARLINGTON ROAD AND SHIRLEY DRIVE WATERMAIN PROJECT CONTRACT #9-24(W)" will be received from contractors by the City of Birmingham, at the office of the City Clerk, located at 151 Martin Street, Birmingham, Michigan, until **2:00 p.m. local time, on Thursday, May 23rd, 2024**. The proposals will be opened and publicly read aloud at that time. Bids submitted after the exact time specified for receipt will not be considered.

The project will include installation of new combined sewers, storm sewers, water mains, underdrains, water and sanitary services, pavements, sidewalks, sidewalk ramps and driveway approaches on Arlington Road and Shirley Drive, between Lincoln Avenue and Maple Road. **Approximate quantities are as follows: 1,076 linear feet of combined sewers, 2,984 linear feet of storm sewers; 5,747 linear feet of water mains, 23,367 square yards of new pavement, 1,654 square yards of new concrete driveway approaches, 3,067 square feet of new sidewalks, plus other work to make a complete project.**

Bidders shall review and comply with all Contract Documents, and supplemental information, as defined in the Information For Bidders.

Bidding documents for this project must be obtained electronically through the Michigan Inter-governmental Trade Network (MITN), which may be accessed at https://www.bidnetdirect.com/mitn. Vendors wishing to obtain copies of the bidding documents will need to register through the MITN website. Electronic versions of bidding documents will be posted to MITN starting **Thursday May 2nd, 2024.**

In order to provide the City of Birmingham with Contractors and Subcontractors who will carry out the work in a timely and satisfactory manner, a fully completed Sworn Statement of Qualifications must be submitted to the Engineering Department of the City of Birmingham prior to the bid opening. This shall be done for the above project before the close of business **(5:00 p.m.) on Thursday, May 16, 2024**. Copies of the Sworn Statement form will be sent by email to prospective bidders upon request. The qualifications and list of references for the General Contractor and all Subcontractors to be used on the project will be reviewed on the basis of the proposed bidder's past performance on work of a similar nature for the City of Birmingham and other owners. Those bidders and bidder's subcontractors who are determined not to be suitable to bid on any work shall be notified in writing of the determination before the bids are opened. This information may be emailed to the contact below and confirmed by calling (248) 530-1850:
Attention: Mr. Cory Borton, Assistant Director of Engineering, cborton@bhamgov.org

The successful bidder shall be required to post bonds, and to comply with the contract requirements of the City Charter. Bids are firm, and no bid may be withdrawn for a period of sixty (60) days after opening of bids.

Procurement for the City of Birmingham will be handled in a manner providing fair opportunity for all businesses. This will be accomplished without abrogation or sacrifice of quality and as determined to be in the best interest of the City of Birmingham. The City reserves the right to reject any and all bid proposals, to waive any irregularity in any of the bid proposals submitted, and to accept any proposal which it shall deem to be the most favorable to the interest of the City.

A certified check or bid bond in the amount of five percent (5%) of the base bid must accompany each bid proposal.

CHERILYNN MYNSBERGE
CITY CLERK

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Birmingham Eccentric
MITN

SECTION 301
SUPPLEMENTAL INSTRUCTIONS TO BIDDERS

1.01 TIME OF COMPLETION

Upon review of the submitted bids received on **Thursday, May 23rd, 2024,** the City will issue a Notice of Intent to Award Letter to the confirmed, responsive, and qualified low bidder. After receipt of this letter, the Contractor will be allowed to start initiation of the contract, including procurement of bonding and insurance documents. Upon receipt of satisfactory bonding & insurance documentation, the City Engineering Department will then recommend the project for final approval at a forthcoming City Commission meeting.

It is anticipated that the project will receive approval from the Birmingham City Commission on **Monday, June 17th, or Monday July 1st, 2024.** The Contractor shall be allowed to commence the project as soon as all bonds and insurance submittals have been approved, the contract has been fully executed by both parties, and a pre-construction meeting has been held.

The Contractor shall have the project substantially completed by Friday, October 25th, 2024. Substantial completion shall be defined by having all utility construction completed, all roadway, sidewalk, and driveway pavements being installed and cured, and all greenbelt areas restored to final grade using with applicable lawn restoration pay items.

The Contractor shall have the project finally completed by Friday, November 21st, 2024. Final completion shall be defined as having all punch list work competed, pavement markings and permanent signage installed, satisfactory establishment of landscaping restoration, and all temporary signage, traffic controls, and all other equipment and materials removed from the site. Final approval of lawn restoration and payment of contract retainage may be extended to Spring 2025 per City discretion based on timing of lawn restoration completion.

LIQUIDATED DAMAGES

A. The contractor shall pay to the City of Birmingham as liquidated damages, the sum of one-thousand dollars ($1,000) per day for each calendar day after the completion dates specified under "Time of Completion" that the work to be performed by the contractor is not completed. Liquidated damages in this amount shall apply for each day that the project is not substantially or finally complete beyond the dates specified under "Time of Completion", regardless of the actual time work began. Liquidated damages are established to compensate the City and the public for the costs of the inconvenience caused by the contractor by extending the work beyond the time specified. Liquidated damages are in place of actual damages, which the City of Birmingham might sustain, and are not intended as a penalty.

B. In addition to the overall project Time of Completion requirements listed above, the following job requirements shall be placed on this Contract:

   The Contractor shall provide the Engineer with a written comprehensive time schedule that details the various steps in the Contract to ensure that the order of the utility and paving operations is clear and meets phasing requirements specified in the drawings for each work area.

C. For the purpose of determining Liquidated Damages, the Contract Time for work shall be increased proportionally to increases in contract value (if any) for this portion of the work provided that the following conditions are met:

   1. Increase in contract value is greater than 10% of the base bid;

2. The parties have not adjusted the Contract Time by other mutually agreeable means such as an executed change order;

3. Adjustments in time on account of unusual weather shall be made in accordance with Section 108.08.D. of the 2020 MDOT Standard Specifications for Construction. The Contractor shall submit a written request for a time extension due to unusual weather conditions, along with supporting documentation, within fourteen (14) days after the last day of the calendar month in which the delay occurred. Failure to notify the City within this time limit shall constitute a waiver of claim for a time extension on account of unusual weather.

1.02 QUESTIONS REGARDING THE CONTRACT DOCUMENTS

A. All questions about meaning or intent of Contract Documents shall be submitted to the Engineer in writing. Address written inquiries to:

Melissa A. Coatta, P.E.
City Engineer
City of Birmingham Engineering Department
P.O. Box 3001
Birmingham, MI 48012
Phone: 248-530-1850
Fax: 248-530-1290
Email: mcoatta@bhamgov.org

B. Replies will be issued by Addenda delivered to all parties recorded by as having received Contract Documents for Bidding. Questions received less than five (5) days prior to date for opening of Bids will not be answered. Only answers contained in formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. Any Addendum issued during pre-bid period shall be included in the Bid, shall become part of Contract Documents, and shall be acknowledged on Bid Form.

1.03 PROJECT SCHEDULE

A. The Contractor shall submit their preliminary construction schedule within fourteen (14) days of the award of this Contract, along with the signed contract, and required bonds and insurance certificates.

B. Details on the schedule shall be sufficient to meet the requirements set forth in paragraph 1.02 above, or else the Engineer shall have the right to reject and request further information to meet the needs of this requirement.

1.04 HOURS OF WORK

A. Typically, work of this nature is allowed six (6) days a week, from 7:00 AM to 7:00 PM, Monday through Saturday, excluding major holidays, such as Memorial Day, July 4th and Labor Day.

1.05 CONTRACTOR SUPERVISION

A. The Contractor shall have a competent superintendent or foreman available at all times, authorized to act for the contractor as agent on the work, who thoroughly understands the plans and specifications, and who shall receive instructions from the Engineer. The superintendent or foreman shall be responsible for all subcontractors. The superintendent or foreman shall be designated by name prior to commencement of the work, and shall be available ON SITE for proper management of the project for the duration of the contract, regardless of whether or not the contractor or subcontractors are engaged in activity on the project.

1.06 WORK AREA

A. The contractor for this project shall be alert to the fact that the work areas are very visible to the public, and that his work operations have a direct impact on a large number of people on a daily basis. The work shall be organized to minimize the number of work days as much as possible. Also, the contractor shall keep his work area as clean and dust-free as practical at all times.

1.07 STATEMENT OF QUANTITIES

A. The quantities indicated in the proposal are the engineer's estimate of quantities required for the project, and bids will be computed, reviewed, analyzed and compared using these quantities. While these quantities have been estimated with as much accuracy as practical beforehand, they should not be construed as defining, or limiting the amount of work to be performed under this Contract, but rather as information furnished to bidders as an approximate estimation of the work items, and as a basis for comparing bids.

1.08 COORDINATION CLAUSE

A. The following coordination issues are brought to the Contractor's attention for consideration when preparing their bid and planning the construction:

1. Utility owners, such as Detroit Edison, AT&T, and Consumer's Energy, may be relocating their facilities during construction operations. The Contractor is to cooperate with and help facilitate such operations.

2. The Contractor shall protect all existing infrastructure, materials, and operations of the City of Birmingham.

3. Emergency services must be given immediate passage through the construction site.

4. The Contractor shall be responsible to coordinate with the City of Birmingham Police and Fire Departments regarding road closures connected to execution of work in this Contract.

5. There are other construction projects that will be in operation during the term of this Contract and may impact local traffic. The Contractor shall so conduct their operations to cooperate fully with the other contractors, and minimize conflicts to ensure maximum safety and courtesy in the expedient completion of this work.

END OF SECTION

SECTION 310
GENERAL INSTRUCTIONS TO BIDDERS

1.01 CONTRACT PRICE

A. Proposals are solicited on the basis of unit prices and/or lump sum prices which are to be clearly set forth in the Proposal Form. The final contract price on the accepted proposal will be determined by multiplying the number, or fraction thereof, units of work actually performed, or labor, material, or appliances actually supplied by the price designated for such items in the proposal. The total bid figure on the proposal form is merely for purposes of estimating and comparing costs, and under no circumstances on unit price contracts does it constitute or imply the total contract price.

1.02 FORM OF PROPOSAL

A. All proposals must be made in the form attached hereto. Additional copies of this proposal form for the bidder's files may be obtained on request at the City Engineering Department.

B. All prices stated in the proposals must be plainly written in figures.

C. All information called for on the proposal must be furnished to enable a fair comparison of the bids.

D. The place of residence of each bidder, or the official address in the case of a firm or company, with county and state, must be given with the signature.

E. Each proposal must be enclosed in a sealed envelope addressed to the City Clerk of the City of Birmingham, and endorsed upon the outside with the name of the project, as it appears in the advertisement for bids.

1.03 CONFORMITY TO PLANS AND SPECIFICATIONS

A. Proposals must be made in full conformity to all the conditions, as set forth in the plans and specifications for the work now on file in the office of the City Engineer.

1.04 AGENCY

A. Anyone signing a proposal as agent of another or others must submit with the proposal, legal evidence of their authority to do so.

1.05 LEGAL STATUS OF BIDDER

A. The legal status of the bidder, that is, as a corporation, a partnership or an individual, must be stated in the proposal. A corporation bidder must name the state in which its articles of incorporation are held, and must give title of the official having authority under the bylaws to sign contracts. A partnership bidder must give the full names and addresses of all partners.

1.06 CERTIFIED CHECK, BIDDER'S BOND OR BANK DRAFT

A. Each proposal must be accompanied by a certified check, bidder's bond or bank draft in an amount not less than five (5) percent of the total price, drawn to the order of the City of Birmingham, as a guarantee of good faith on the part of the bidder and subject to the conditions stipulated in the proposal form.

B. No proposal shall be withdrawn for a period of sixty (60) days after the date set for the opening of bids.

C. A single check, bond or draft may serve to cover two (2) or more alternative proposals when such alternative proposals are submitted by the same bidder.

D. The bid deposit of all except the three (3) lowest bidders will be returned within three (3) weeks after the opening of bids. The bid deposit of the three (3) lowest bidders will be returned within two (2) weeks after the contract has been executed by both parties.

1.07 OBLIGATION TO EXECUTE CONTRACT

A. The bidder whose proposal is accepted will be required to execute the contract, and to furnish sureties hereafter specified, within twenty-one (21) days after receiving notice of such acceptance; and in case of refusal or failure to do so, the bidder shall be considered to have abandoned all rights and interest in the award, and the bid deposit may be declared to be forfeited to the City, as liquidated damages and not a penalty, and the contract may be awarded to another.

1.08 BONDS

A. The successful bidder will be required to furnish two (2) bonds, each on the forms provided as follows:

1. A Performance Bond in an amount not less than 100% of the contract price in favor of the City of Birmingham, conditioned upon the faithful performance of the contract, and completion on or before the date specified.

2. A Payment Bond for labor or material running to the claimants, which is defined in MCL §129.206 as those persons supplying labor or materials to the principal contractor or subcontractors in the prosecution of the work provided for in this contract in an amount not less than 100% of the contract price for the protection of those persons supplying labor, materials or both.

B. The cost of all bond premiums is incidental to the other work on this project and shall be included in the Contractor's bid price(s) for the work. No additional or separate payment shall be made to the Contractor for providing the required bonds.

1.09 INDEMNITY

A. The Contractor shall indemnify the City of Birmingham in accordance with the INDEMNITY section set forth in the General Requirements.

1.10 INSURANCE

A. The Contractor shall not commence work under this contract until obtainment of the insurance required under this paragraph. All coverages shall be with insurance companies licensed and admitted to do business in the State of Michigan. All coverages shall be with insurance carriers acceptable to the City of Birmingham. The cost of all insurance premiums is incidental to the other work on this project and shall be included in the Contractor's bid price(s) for the work. No additional or separate payment shall be made to the Contractor for providing the required insurance coverage.

1. **Workers' Compensation Insurance:** The Contractor shall procure and maintain during the life of this contract, Workers' Compensation Insurance, including Employers Liability Coverage, in accordance with all applicable statutes of the State of Michigan.

2. **Commercial General Liability Insurance:** The Contractor shall procure and maintain during the life of this contract, Commercial General Liability Insurance on an "Occurrence Basis" with limits of liability not less than $3,000,000 per occurrence combined single limit, Personal Injury, Bodily Injury and Property Damage. Coverage shall include the following extensions: (A) Contractual Liability; (B) Products and Completed Operations; (C) Independent

Contractors Coverage; (D) Broad Form General Liability Extensions or equivalent; (E) Deletion of all Explosion, Collapse and Underground (XCU) Exclusions, if applicable.

3. **Motor Vehicle Liability:** The Contractor shall procure and maintain during the life of this contract Motor Vehicle Liability Insurance, including all applicable no-fault coverages, with limits of liability of not less than $3,000,000 per occurrence combined single limit Bodily Injury and Property Damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.

4. **Additional Insured:** Commercial General Liability and Motor Vehicle Liability Insurance, as described above, shall include an endorsement starting the following shall be Additional Insureds. The City of Birmingham, including all elected and appointed officials, all employees and volunteers, all boards, commissions and/or authorities and board members, including employees and volunteers thereof. This coverage shall be primary to any coverage that may be available to the additional insured, whether any other available coverage be primary, contributing or excess.

5. **Pollution Liability Insurance:** CONTRACTOR shall procure and maintain during the life of this Agreement Pollution Liability Insurance, with limits of liability of not less than $1,000,000, per occurrence preferred, but claims made accepted.

6. **Cancellation Notice:** Workers' Compensation Insurance, Commercial General Liability Insurance and Motor Vehicle Liability Insurance, as described above, shall include an endorsement stating the following: "Thirty (30) days Advance Written Notice of Cancellation or Non-Renewal shall be sent to the Finance Department, City of Birmingham, P.O. Box 3001, 151 Martin Street, Birmingham, Michigan 48012.

7. **Owners Contractors Protective Liability:** The Contractor shall procure and maintain during the life of this contract, an Owners Contractors Protective Liability Policy with limits of liability not less than $3,000,000 per occurrence, combined single limit, Personal Injury, Bodily Injury and Property Damage. The City of Birmingham shall be "Name Insured" on said coverage. Thirty (30) days' Notice of Cancellation shall apply to this policy.

B. Proof of Insurance Coverage: The Contractor shall provide the City of Birmingham at the time the contracts are returned for execution, Certificates of Insurance and/or policies, acceptable to the City of Birmingham, as listed below:

1. Two (2) copies of Certificate of Insurance for Workers' Compensation;
2. Two (2) copies of Certificate of Insurance for Commercial General Liability;
3. Two (2) copies of Certificate of Insurance for Vehicle Liability Insurance;
4. Original policy, or original binder pending issuance of policy, for Owners Contractors Protective Liability Insurance;
5. If so requested, Certified Copies of all policies mentioned above will be furnished.

C. Coverage Expiration: If any of the above coverages expire during the term of this contract, the Contractor shall deliver renewal certificates and/or policies to the City of Birmingham at least ten (10) days prior to the expiration date.

D. Maintaining Insurance: The CONTRACTOR also agrees to provide all insurance coverage as specified. Upon failure of the CONTRACTOR to obtain or maintain such insurance coverage for the term of the agreement, the City of Birmingham may, at its option, purchase such coverage from

the contract amount. In obtaining such coverage, the City of Birmingham shall have no obligation to procure the most cost-effective coverage but may contract with any insurer for such coverage.

1.11 EXAMINATION OF SITE

A. It is expected that each bidder will make a personal examination of the entire site of the proposed work, and of its surroundings. It will be assumed that each bidder, before offering his proposal, has obtained firsthand information concerning any probable interference and the available facilities for transporting, handling and storing of construction equipment and materials, and concerning other conditions which may affect his work.

1.12 LEGAL CONDITIONS

A. Bidders are notified that they should acquaint themselves with the various provisions in the laws of the State of Michigan, and in the ordinances and regulations of the City of Birmingham and Oakland County, with respect to the carrying on of public improvements.

1.13 BIDDER'S ABILITY

A. It is the intention of the City to award the contract for this job to a contractor whose construction skill and financial resources are fully equal to the task of prosecuting the work in a satisfactory manner, and of bringing it to completion within the time limit specified. With this end in view, the Form of Proposal calls for at least three (3) references concerning his ability to do this particular class of work, and a reference list of the last five (5) projects, including those not completed or currently being performed. The mere ability to offer bonds will not be taken as sufficient evidence of responsibility on the part of the bidder. If the contract is awarded to a foreign company, a certificate of authority to do business in this state must accompany executed contract.

1.14 PAYMENTS

A. Partial payments will be made monthly to the Contractor during the satisfactory progress of the working accordance with the Payments section of the General Requirements.

1.15 RIGHT TO ACCEPT, REJECT AND TO WAIVE DEFECTS

A. The City reserves the right to accept any proposal, to reject any or all proposals, and to waive any defect or irregularity in any proposal, if it appears advantageous to the City to do so.

B. In particular, any alterations, erasure or interlineation in the Specifications which are made a part, specifically, of these instruments, or of the Form of Proposal, shall render the accompanying proposal irregular and subject to rejection by the City. In case any explanation, additions or alterations are to be offered, they shall be indicated on separate sheets attached to the proposal form and referred to therein.

C. Proposals which are clearly unbalanced, will also be considered as irregular, and will be subject to instant rejection by the City.

END OF SECTION

SECTION 400
GENERAL REQUIREMENTS

1.01 DEFINITION OF TERMS

A. The intent and meaning of words and expressions, or pronouns used in their stead, occurring in these specifications or in other contract documents, shall be interpreted as described under Section 101.03 Definitions of Terms of the Current Standard Specifications for Construction adopted by the Michigan Department of and Transportation, with the following additions or exceptions:

1. City - The corporation of the City of Birmingham, Michigan.
2. Commission - The Commission of the City of Birmingham, Michigan, and any other board, body, official or officials to which or to whom the powers belonging to the said Commission shall, by virtue of any act or acts, hereafter passed or be held to appertain.
3. Engineer - The person holding the position or acting in the capacity of the City Engineer of the City of Birmingham, Michigan, acting either directly or through his properly authorized agents, such agents acting within the scope of the duties entrusted to them.
4. Directed, required, permitted, etc. - Whenever in the specifications the words "as directed", "as required", "as permitted", or words of like effect are used, it shall be understood that the direction, requirements or permission of the Engineer is intended; similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean approved by, or acceptable, or satisfactory to the Engineer.

1.02 INTENT OF THE PLANS, SPECIFICATIONS AND CONTRACT

A. The intent of the plans, specifications and contract is to provide for the completion of the work in substantial compliance with the details as shown thereon, and as described herein. The Contractor shall furnish all labor, materials, equipment, tools, transportation and necessary supplies, and shall perform all operations required to complete the work in accordance with the specifications, and the lines, grades and cross sections provided for on the plans, or by authorization.

1.03 EXTRA WORK

A. No extra work shall be started, or extra material furnished, until such extra work or furnishing of extra material is authorized in writing by the Engineer.

B. The price for such extra work or material must be approved by the Engineer. Said price may be a unit price, a lump sum price, or if the Engineer so elects, the work shall be done on a force account basis, which will be paid for in the following manner:

1. For all labor, teams and foremen in direct charge of the specific work, the Contractor shall receive the actual rate of wage paid for each and every hour that said labor, teams and foremen are actually engaged in such work, plus 20% of the sum thereof.
2. For materials and supplies, the Contractor will receive the actual cost of such materials delivered on the work, including freight charges, as shown by original receipted bills, plus 15% of the sum thereof.
3. For any machinery and equipment owned or rented by the Contractor, which it may be deemed necessary or desirable to use on extra work, the Contractor will be paid at the actual charge-out rate, if reasonable, for his own equipment, or at the actual rental price paid, if reasonable, for rented equipment for each and every hour that such equipment is used on the work, to which sum 15% will be added.

4. Bond premium, workmen's compensation insurance, personal injury public liability and property damage public liability insurance, unemployment compensation, and Federal Social Security will be paid for at actual cost, to which sum 15% will be added. The Contractor shall furnish satisfactory evidence of the rate or rates paid for such insurance.

5. The compensation as herein provided shall be accepted by the Contractor as payment in full for extra work done by force account, and the said percentages shall cover profit, superintendence, general expense, overhead, and the use of small tools and equipment for which no rental is allowed.

1.04 ALTERATION IN CHARACTER OF WORK

A. Should the Contractor encounter, or the Engineer encounter, during the progress of the work, sub-surface and/or latent conditions at the site materially differing from those shown on the plans or indicated in the specifications, the Engineer's attention shall be called immediately to such conditions before they are disturbed. The Engineer shall thereupon investigate the conditions, and if he finds that they materially differ from those shown on the plans and indicated in the specifications, he shall at once make such changes in the plans and/or specifications, as he may find necessary.

1.05 COORDINATION OF SPECIFICATIONS AND PLANS

A. In case of discrepancy, written figures shall govern over numerals, figured dimensions shall govern over scaled dimensions, plans shall govern over standards specifications, supplemental specifications shall govern over standard specifications and plans, and special provisions shall govern over supplemental specifications.

B. The Contractor shall not take advantage of any apparent error or omission in the plans or specifications, but the Engineer shall be permitted to make such corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the plans and specifications.

1.06 AUTHORITY OF ENGINEER

A. The Engineer shall decide all questions which may arise as to the quality and acceptability of materials furnished and work performed, and as to the manner of performance and rate of progress of the work; all questions which may arise as to the interpretation of the plans and specifications; and all questions as to the satisfactory and acceptable fulfillment of the terms of the contract by the Contractor.

1.07 INSPECTION

A. Inspectors may be appointed and directed to inspect all materials used, and all work done. The inspection may extend to all parts of the work, and to the preparation or manufacture of the materials for use in the work. The Inspectors will not be authorized to revoke, alter, enlarge or relax any of the provisions of these specifications, nor to change the plans in particular. The Inspector on the work will inform the Engineer as to the progress of the work, the manner in which it is being done, and the quality of the materials being used. He will also call to the attention of the Contractor any failure to follow the plans and specifications that he may observe. In case of any dispute arising between the Contractor and the Inspector as to the materials furnished, or the manner of performing the work, the Inspector shall have the authority to reject materials or suspend the work until the question at issue can be referred to and be decided by the Engineer. In no instance shall any action or omission on the part of the Inspector relieve the Contractor of the responsibility of completing the work in accordance with the plans and specifications.

B. The Engineer and his duly authorized Inspector, shall at all times have the right to enter the premises upon which the work under this contract is being done, and to inspect said work and to ascertain whether or not the construction is carried out in accordance with the terms of the contract or specifications; and the Contractor shall render all necessary assistance and provide all reasonable facilities and give ample time for such inspection.

1.08 SUPERVISION

A. The Contractor shall give his personal supervision to the faithful prosecution of the work. In case of his absence, he shall have a competent superintendent or foreman on the work site who shall follow, without delay, all instructions of the Engineer or his assistants in the prosecution and completion of the work, and every part thereof in conformity with this contract. He shall also have full authority to supply material and labor immediately.

B. The Contractor's supervisor shall be responsible to act on behalf of the Contractor. This includes being always present or available, making decisions on behalf of the Contractor and Subcontractor, scheduling, monitoring work progress on a continued basis, communicating with City representatives, etc. His name shall be submitted prior to the start of work, with all appropriate ways of contacting him. He shall remain the responsible Contractor's representative throughout completion of the project, including any subcontract work associated with this contract. If it is necessary to replace this person, it shall have the approval of the Engineer.

1.09 TIME AND SEQUENCE OF WORK

A. The Contractor shall have control over the sequence of order of execution of the several parts of the work to be done under this contract, and over the methods of accomplishing the required results, except as some particular sequence or method may be distinctly demanded by these specifications and plans, or by the express provisions of the contract.

B. The Engineer may make such reasonable requirements that in his judgment are necessary for the proper and effective protection of work partially or wholly completed, and to these requirements the Contractor shall strictly conform.

C. The Contractor shall submit a written work plan prior to starting construction. This shall include a written schedule, critical path or equal, to focus in on the date required for completion. This schedule must be updated periodically (not to exceed two (2) weeks) if it becomes necessary to modify the plan. This does not relieve the Contractor of the responsibility to complete the contract according to contractual stipulations. Any modification to the time schedule must obtain prior written approval from the Engineer.

D. Once the Contractor has mobilized, the Contractor must execute the contract in a continuous, expeditious manner, and may not suspend prosecution of work without written permission of the Engineer.

1.10 RELATION TO OTHER CONTRACTORS

A. The Contractor shall so conduct his operations as not to interfere with or injure the work of other Contractors employed by the City on adjoining or related work, and he shall promptly make good any injury or damage which may be done to such work by him.

B. Should a contract for adjoining work be awarded to another Contractor, and should the work on one of these contracts interfere with that of the other, the Engineer shall decide which Contractor shall cease work for the time being, and which shall continue, or whether the work of both contracts shall continue at the same time and in what manner. In case territory of one contract should be the necessary means of access to another contract, the Engineer shall have power to grant reasonable

privileges with respect to the transportation or movement of personnel, equipment or materials, as he may adjudge to be necessary or expedient, and in the best interest of the City. Any decision which the Engineer may make as to method and time of conducting work or the use of the territory shall not be made the basis of any claim for damage, but an extension of time may be claimed if justified by the circumstances, the same as in the case of other delays caused by the acts of the City. Any difference of opinion or conflict of interest which may arise between the Contractor and other Contractors or workmen of the City regarding adjoining work, shall be determined and adjusted by the Engineer.

1.11 CONSTRUCTION STAKES

A. The location, alignment, elevation and grade of the work will be determined by the Engineer, who will set such stakes as are necessary to properly mark these elements. The Contractor shall assume full responsibility for detail dimensions and elevations measured from the lines, grades and elevations so established.

B. The Engineer may require the Contractor, at the Contractor's expense, to provide such masts, scaffolds, batter boards, straightedges, templates or other devices as may be necessary to facilitate laying out, inspecting and constructing the work.

C. The Contractor shall exercise proper care in the preservation of all stakes set for his use, or for the use of the Engineer, and if such stakes are injured, lost or removed by the Contractor's operations, the cost of resetting may be charged to the Contractor. The Department will be responsible for the accuracy of lines, slopes and grades established by the City, except that the Contractor shall not take advantage of any obvious errors or omissions.

1.12 SOIL CONDITIONS

A. The Contractor shall make his own determination of the soil conditions and he shall complete the work in whatever materials, and under whatever conditions he may encounter or create, without extra cost of the City.

1.13 MATERIALS FURNISHED BY THE CITY

A. When specified, the City of Birmingham may furnish materials at no cost to the Contractor. All other materials necessary to complete the project shall be furnished by the Contractor.

B. Materials to be furnished by the City will be at the Department of Public Works Yard at Eton Road and Holland Avenue. The Department of Public Works will require the Contractor to provide a written authorization from the Engineer before releasing any materials. The Contractor shall load and transport all such materials from the Department of Public Works Yard to the construction site, at his own expense.

C. The City may, at its discretion, furnish to the Contractor, any materials, supplies or transportation required for extra work, and the Contractor shall not be entitled to any allowance or percentage on account of materials, supplies or transportation so furnished.

1.14 STORED MATERIAL

A. Materials and equipment distributed, stored or placed upon or near the site of the work shall be at all times so disposed as not to interfere with work being executed by the City, or by other Contractors in the City employ, or with street drainage, fire hydrants, or with access thereto, and not to hinder any more than may be necessary the ordinary pedestrian or vehicular traffic of the streets. Such material shall be stored in such a manner as to facilitate inspection.

1.15 REJECTED MATERIAL

A. If any materials used in the work, brought upon the ground, or selected for use in the work are condemned by the Engineer on account of bad or improper workmanship, or as being unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove from the work or its vicinity, without delay, all such rejected or condemned material of whatever kind. Upon failure to do so within forty-eight (48) hours after having been so directed by the Engineer, the condemned material may be removed by the City and the cost of said removal deducted from any money that is then due, or that may thereafter become due to the Contractor. No payment shall be made until such materials, work or workmanship has been removed and proper materials and workmanship substituted therefor.

1.16 WATER SUPPLY

A. Water for construction purposes may be taken from the City mains, at no charge, subject to the rules of the City Water Department. Special approval of the Engineer must be obtained prior to the opening of any fire hydrant.

B. The Contractor shall provide for his employees an adequate supply of drinking water taken from the City mains.

1.17 SANITARY REGULATIONS

A. Necessary convenience, properly secluded from public observation, shall be constructed where needed for the use of laborers on the work. Such conveniences shall be located, constructed and maintained, subject to the approval of the Engineer and the collections therein shall be removed at such times, and to such places as he shall direct. The Contractor shall obey and enforce such sanitary regulations as may be prescribed by the County Health Department.

1.18 PERMITS AND LICENSES

A. The Contractor shall procure all permits and licenses and pay all charges and fees necessary and incident to the due and lawful prosecution of the work. Unless otherwise stated in these contract documents, there will be no charge for any permits required by the City of Birmingham.

1.19 LAWS AND ORDINANCES

A. The Contractor shall keep himself fully informed of all local ordinances and regulations, state and national laws in any manner affecting the work herein specified. He shall at all times observe and comply with, and shall cause all his agents and employees to observe and comply with, said ordinances, laws and regulations, and shall protect and indemnify the City and its duly authorized officers and agents against any claim or liability arising from or based on the violation of any such laws, ordinances, regulations, etc.

B. The Contractor shall obey and abide by all the laws of the State of Michigan and of the Federal Government relating to the employment of labor on public work and all Charter provisions and ordinances of the City of Birmingham regulating or in respect to public improvements.

C. The Contractor and his Subcontractors shall not discriminate against any employee or applicant for employment, to be employed in the performance of this contract, with respect to hire, tenure, terms, conditions or privileges of employment, because of sex, race, color, religion, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

1.20 PROPERTY AND SURVEY MONUMENTS

A. Before any monuments or stakes marking the boundaries of property along or near the work are removed or disturbed, the Contractor shall notify the Engineer in sufficient time so that they can be properly located and reset.

B. All precautions shall be taken to avoid disturbance of permanent survey monuments of any City, County or State authority, and when any of these are disturbed or destroyed, the Contractor shall restore them to the satisfaction of such authority and shall pay all costs incurred by such authority in connection therewith.

1.21 BUILDING AND OTHER STRUCTURES ENCOUNTERED

A. Full responsibility shall be assumed by the Contractor for the protection of all buildings and other structures, public or private, including tracks, pavements, driveways, curbs, poles, signs, hydrants, underground pipes and conduits and other structures of every sort that may be encountered in or adjacent to the work.

B. Wherever settlement or lateral movement of structures might occur, adequate underpinning or other means of support shall be installed. Where necessary, such support shall be installed in advance of construction.

1.22 PROTECTION TO TREES AND SHRUBBERY

A. The Contractor shall take all prudent and feasible measures that will reduce or eliminate the impacts of development and construction on City owned trees. Trees or shrubbery shall be surrounded by protective cushioning, posts or fencing before construction work begins, if, in the judgment of the Staff Arborist, such precautions are necessary. Further detailed information is included in the supplemental specifications section of the contract if applicable.

1.23 DUST CONTROL

A. All Contractors working on projects that require removal of the paved surface during construction shall provide dust control as directed by the Engineer, at no additional cost to the City. When weather conditions are such that dusty conditions can be created, the Contractor shall be prepared to act. When dry conditions are declared by the Engineer, the Contractor shall always have a water truck and calcium chloride on site, to be applied as needed. The Contractor shall be pro-active with respect to applying dust control measures as needed.

1.24 PROTECTION AND RESTORATION OF PROPERTY

A. The Contractor shall restore, at his own expense, any and all public or private property damaged or injured in consequences of any act or omission on his part, or on the part of his employees or agents, to a condition similar and equal to that existing before such damage or injury was done. If the Contractor neglects to repair or make restoration, the Engineer may, after forty-eight (48) hours written notice to the Contractor, proceed to make such repairs or restoration, and will deduct the cost thereof from any monies that are or may become due to the Contractor.

1.25 RESPONSIBILITY FOR DAMAGE TO WORK

A. The Contractor shall protect his work and materials from damage, due to the nature of the work, the action of the elements, the carelessness of other contractors, or from any cause whatever, until the completion and acceptance of the work. Should any damage occur, he shall repair or replace it at his own expense and complete the work to the satisfaction of the Engineer.

1.26 INDEMNITY

A. To the fullest extent permitted by law, the CONTRACTOR and any entity or person for whom the CONTRACTOR is legally liable, agrees to be responsible for any liability, defend, pay on behalf of, indemnify, and hold harmless the CITY OF BIRMINGHAM, its elected and appointed officials, employees and volunteers and any others working on behalf of the CITY OF BIRMINGHAM against, any and all claims demands, suites, or loss, including all costs and reasonable attorney fees connected therewith, and for any damages which may be asserted, claimed or recovered against or from and the CITY OF BIRMINGHAM, its elected and appointed officials, employees, volunteers or others working on behalf of the CITY OF BIRMINGHAM, by reason of personal injury, including bodily injury and death and/or property damage, including loss of use thereof, which arises out of or is in any way connected or associated with this Agreement. Such responsibility shall not be construed as liability for damage caused by or resulting from the sole act or omission of its elected or appointed officials, employees, volunteers or other working on behalf of the CITY OF BIRMINGHAM.

1.27 INSURANCE

A. The Contractor shall comply with the INSURANCE requirements set forth in the General Instructions to Bidders.

1.28 PUBLIC TRAVEL

A. The Contractor shall at no additional compensation make suitable and adequate provisions, unless otherwise authorized by the Engineer, for the safe and free passage of persons and vehicles by, over or under the work while it is in progress.

B. The Contractor shall obtain permission from the Engineering Department to close or block any street. The Contractor shall notify the Engineering Department at least four (4) hours before closing or blocking any street.

1.29 PUBLIC SAFETY

A. The Contractor shall furnish, erect and maintain a good and sufficient fence, railing or barrier around all exposed portions of his work, to effectively prevent any accident in consequences of his operations and to protect the work. Such fences, railings and barriers shall be illuminated from sunset to sunrise by suitable and sufficient lights, flares or torches, in such a manner as to make them clearly visible to approaching pedestrians and/or traffic.

B. When equipment and materials are located within the construction site, or within any public right-of-way, the public shall be safe-guarded by suitable and sufficient signs, lights, barricades or other means furnished and maintained by the Contractor.

C. If any portion of the work is not properly barricaded, signed or lighted by one-half (1/2) hour after sunset, the necessary barricades, signs and lights may be placed by the City and all costs to the City for such work will be charged to the Contractor. The furnishing, erection and maintenance of barricades, signs and lights by the City will not relieve the Contractor of his responsibility for the protection of traffic and the work.

D. The Contractor shall provide such traffic regulators and watchmen as are necessary to insure safe and convenient travel by the public and to protect the work.

E. Barricades, signs and lights shall be erected in accordance with the provisions of the Michigan Manual of Uniform Traffic Control Devices.

1.30 MAINTAINING SERVICE TO DRAIN, WATER MAINS, ETC.

A. The Contractor shall maintain in continuous and effective service all drains, sewers, watercourses and water mains touched during the progress of the work. If it should become necessary to temporarily divert or obstruct the flow of any watercourse or drain, written consent must first be obtained from the Engineer, and then the Contractor shall assume full responsibility for the consequences.

1.31 NOTIFICATION OF UTILITIES

A. The Contractor shall notify all utilities of his intention to excavate or otherwise cause any underground disturbance, by calling MISS DIG at least three (3) full working days before commencing such excavating or disturbances.

B. The rights are reserved to both the City and to the owners of public utilities or franchises to enter upon the work for the purpose of making repairs to their installations and making changes in their installations necessitated by the work.

1.32 SUBLETTING OR ASSIGNING

A. The Contractor shall perform without subletting, at least twenty-five (25) percent of the work provided for in this contract, computed based on cost.

B. The subletting of any portion of the contract work shall be subject to approval by the Engineer, but such approval shall not relieve the Contractor of responsibility for the work of such Subcontractors who likewise shall be bound by all pertinent provisions of these specifications. Before any work is sublet, the Contractor shall satisfy the Engineer that the proposed Subcontractor is suitably equipped and experienced in that kind of work, and that he has proper financial resources to enable him to carry it out.

C. No assignment by the Contractor of any principal construction contract or any part thereof, or of the funds to be received thereunder by the Contractor will be recognized unless such assignment has had the approval of the Engineer, and the Surety has been given due notice of such assignment in writing.

D. No assignment will receive approval unless the instrument of assignment contains a clause to the effect that it is agreed that the funds to be paid the assignee under the assignment are subject to a prior lien for services rendered or materials supplied for the performance of the work called for in said contract in favor of all persons, firms or corporations rendering such services or supplying such materials.

1.33 DISCHARGE OF EMPLOYEES

A. The Contractor shall employ only competent, skillful persons to do the work. Whenever the Engineer shall notify the Contractor in writing that, in his opinion, any employee on the work is incompetent, impertinent, disobedient, unfaithful, disorderly or otherwise unsatisfactory, that employee shall be discharged from the work and shall not again be employed on it except with the written consent of the Engineer.

1.34 PROSECUTION OF WORK

A. The Contractor shall begin work in accordance with the detailed progress schedule after execution of the Contract by the City. He shall prosecute the work in the order given in the progress schedule, with force and equipment adequate to complete the major items, portions, or sections within the time limit therein fixed for completion. In case of failure to proceed with the work as rapidly as is provided in the progress schedule, or if it appears at any time that such work is not being prosecuted

in such manner as to insure its completion within the time specified, the Engineer shall have the right to require the Contractor to furnish and place in operation such additional force and equipment as the Engineer shall deem necessary to bring the work up to the progress schedule; with or without notice to the Surety, place such working force and equipment on the work and charge the Contractor the cost of the labor and such rental and depreciation rates for the plant and equipment as in his judgment is reasonable, and for such time as the plant and equipment are in service.

1.35 EXTENSION OF TIME

A. If the Contractor is obstructed or delayed in the prosecution or completion of the work by reason of the neglect, delay or default of any other Contractor having a contract with the City for adjoining or contiguous work; by reason of any damage that may happen thereto by the unusual action of the elements; by reason of the abandonment of the work by the employees in a general strike; the Contractor shall have no claim of damages for any such cause or delay. He shall, however, be entitled to such extension of the time specified for the completion of the work as the Engineer shall determine to be just and proper, provided however, that such claim for such extension of time is made by the Contractor in writing to the Engineer within one (1) week from the time when any such cause for delay occurs.

1.36 SUNDAY AND HOLIDAY WORK

A. No work shall be done on Sundays, or upon any days celebrated as holidays by the City of Birmingham, except in case of emergency, or to protect work from damage or injury. All Sunday or holiday work must have prior written approval of the Engineer.

1.37 NIGHT WORK

A. No work shall be carried on from 7:00 p.m. to 7:00 a.m., except in case of emergency, or to protect from damage or injury work that has already been done. All night work must have the prior written approval of the Engineer. This provision does not apply to work covered under the provision entitled "shutting off water".

1.38 MEASUREMENT OF QUANTITIES

A. Quantities of work completed under the contract will be measured by the Engineer according to United States standard measures. When material is measured by weight in tons, the unit shall be the ton of two thousand (2000) pounds.

B. All longitudinal measurements for area of base courses, surface courses and pavements will be made along the actual surface of the roadway. For all transverse measurements for area of base courses, surface courses and pavement, the dimensions used in calculating the pay area shall be the neat dimensions provided in the plans or by authorization.

C. Structures will be measured according to neat lines provided on the plans or by authorization.

D. All materials which are specified for measurement by the cubic yard "Loose Measure" will be measured at the location where used on the project under construction, unless otherwise provided.

1.39 CLEANING UP

A. Upon completion of the actual work of construction, the Contractor shall clean up and leave in a neat condition all the premises which he has occupied during the construction period.

B. Before the time of the final estimate, the Contractor shall remove from the premises, debris, rubbish and all unused materials, together with all tools and equipment, or shall deposit them at such points and in such a manner as the Engineer may require.

C. Before leaving the grounds, the Contractor shall replace and put in good repair all fences, telephone poles and lines, roadways and other property that may have been damaged by him in the progress of the work.

1.40 ENVIRONMENTAL PROTECTION

A. Contractor shall at all times be responsible to ensure that no chemicals, pollutants or other harmful or hazardous materials are spilled, discharged or otherwise released into the environment or onto City property, rights-of-way or into the storm or sanitary systems. Should such a release occur, Contractor shall immediately take action to extract the contaminants and prevent further exposure and damage. Contractor shall immediately contact the City and all other required governmental agencies to assess and determine the necessary and appropriate remediation activities. Contractor shall be responsible for all costs and damages stemming from the release including, but not limited to, the cost to remove and dispose of the contaminant, repair/replace/restore the affected areas, and all costs incurred by the City or governmental agency in response.

1.41 UNNOTICED DEFECTS

A. Any defective work or material that may be discovered by the Engineer before the final acceptance of the work, or before final payment has been made, shall be removed and replaced by work and material which conform to the specifications. Failure to neglect on the part of the Engineer to condemn or reject bad or inferior work or materials shall not be construed to imply acceptance of such work or materials.

1.42 FINAL INSPECTION

A. As soon as practicable, after the completion of all the work covered by the Contract, the Engineer shall make the final inspection of the work. If the work is found to comply with all the terms of the Contract plans and specifications, the Engineer shall accept the completed work with reasonable promptness. If the work is not acceptable to the Engineer at the time of such inspection, he shall advise the Contractor as to the defects to be remedied before final acceptance.

B. If within a period of ten (10) days after such notification the Contractor has not taken steps to speedily complete the work as outlined by the Engineer, the Engineer may, without further notice to the Contractor and without in any way impairing the Contractor, make such arrangements as he may deem necessary to have the work completed in a satisfactory manner. The cost of so completing the work may be deducted from any monies due, or which may become due the Contractor.

C. Use by the City or public of all or any part of the work before acceptance shall not be construed as acceptance of the part used.

1.43 PAYMENTS

A. Partial payments will be made monthly on the basis of the value of work completed during the estimated period, less the percentages retained as specified herein, provided the work is progressing in accordance with the progress schedule, provided the contract provisions are being fulfilled, and provided the time of completion has not elapsed.

B. The Contractor shall be responsible to submit requests for partial payments in writing by completing the Request for Partial Payment form supplied in the contract and/or by the City with the attached appropriate quantities as measured or estimated by the Superintendent.

C. Request for Final Payment shall be made by an officer of the company submitting final quantities to the Engineer based upon the value of the work performed and materials completed in accordance with the contract. Prior to final payment, and as a condition thereto, the Contractor shall furnish

the City with a duly executed, notarized, "Contractor's Affidavit", stating that all bills and claims have been satisfied, except as stated therein, and a release of all claims against the City arising under and by virtue of this Contract.

D. If the Contractor fails to submit a request for a payment, as specified, the Engineer may at his (her) discretion prepare a Contractor's Estimate for such payment.

E. When submitting a request for partial or final payment, the Contractor shall complete the appropriate forms as included in Section 140 of the Contract. When requesting a partial payment, the Contractor shall submit the "Request for Partial Payment" form and the "Sworn Statement" form. When requesting final payment, the Contractor shall complete the "Request for Final Payment" form and the "Sworn Statement" form.

F. When the Contractor determines that work will need to be completed outside of the specified pay items, the "Work Directive" form shall be submitted to the Engineer and approved prior to said work commencing.

G. Except as hereinafter provided, the City will retain ten (10) percent from the partial payments of the amount earned up to fifty (50) percent of the Contract price. After fifty (50) percent of the Contract work is in place, the City will not hold additional retainage, unless the Engineer determines that the Contractor is not making satisfactory progress. If the Engineer determines the Contractor is not making satisfactory progress, the City may retain up to ten (10) percent of the value of the work over fifty (50) percent of the Contract price.

H. After final acceptance of the Contract work by the Engineer, he shall process a final estimate for the total amount due the Contractor, less the total amount of all previous payments. Except as hereinafter provided, the total amount due the Contractor shall include interest earned on retained amounts from partial payments.

I. Prior to final payment, and as a condition thereto, the Contractor shall furnish the City with a duly executed, notarized, affidavit or certificate, stating that all bills and claims have been satisfied, except as stated therein, and a release of all claims against the City arising under and by virtue of this Contract.

J. In case evidence exists that all bills with respect to the work have not been paid in full, the Engineer may retain out of any amounts due the Contractor, sufficient sums to cover all such unpaid bills.

K. Except as hereinafter provided, and at the City's option, a dispute regarding the percent retained from partial payments or regarding payment of interest on retained amounts, shall be settled in accordance with the provisions of Act 524 of the Public Acts of Michigan for 1980.

L. For a Contract having a dollar value of less than $30,000.00, or a Contract having three (3) months or less between the date of the Contractor and the Contract Time of Completion:

1. The City will retain ten (10) percent of the amount earned from partial payments.
2. The City will not pay interest on amounts retained from partial payments.
3. The provision to settle disputes in accordance with Act 524 will not apply.

1.44 SETTLEMENT OF DISPUTES

A. Any controversy of claim arising out of or relating to this Agreement, or the breach thereof, shall be settled either by commencement of a suite in Oakland County Circuit Court, the 48th District Court or by arbitration. If both parties elect to have the dispute resolved by arbitration, it shall be settled pursuant to Chapter 50 of the Revised Judicature Act for the State of Michigan and administered by the American Arbitration Association with one arbitrator being used, or three

arbitrators in the event any party's claim exceeds $1,000,000. Each party shall bear its own costs and expenses and an equal share of the arbitrator's and administrative fees of arbitration. Such arbitration shall qualify as statutory arbitration pursuant to MCL§600.5001 et. seq., and the Oakland County Circuit Court or any court having jurisdiction shall render judgment upon the award of the arbitrator made pursuant to this Agreement. The laws of the State of Michigan shall govern this Agreement, and the arbitration shall take place in Oakland County, Michigan. If the parties elect not to have the matter in dispute arbitrated, any dispute between the parties may be resolved by the filing of a suite in the Oakland County Circuit Court or the 48th District Court.

1.45 MAINTENANCE AND GUARANTY

A. The Contractor shall guarantee all the work furnished under this Contract against all defects in workmanship and materials, and incidental damage to other property, for a period of one (1) year following the date of the final acceptance of the work by the City. The Performance Bond shall fully cover all guarantees contained in this article.

1.46 CONFLICT OF INTEREST

A. The Contractor shall not directly or indirectly employ or otherwise use a City official of the City of Birmingham in conjunction with this contract. If subsequent to entering into the Contract a City official, a spouse, child or parent shall become directly or indirectly interested in the contract, the City shall have the right to terminate the contract without further liability if the disqualification has not been removed within thirty (30) days after the City has given notification of the disqualifying interest.

1.47 INSPECTOR CREW DAYS

A. It shall be the responsibility of the bidder to extend as a bid item in his proposal, when called for, the number of inspection crew days he requires for the completion of the project, times the unit price for inspection. The basis of computing crew days shall be as follows:

Total Hours Worked	**Crew Days Charged**
When an Inspector reports to the project and the Contractor decides not to work, or does not appear to work, weather permitting.	- One-half (1/2) crew day
Under four (4) hours	- One-half (1/2) crew day
Four (4) hours or more	- One (1) crew day

B. The above hours are only for the usual working days of Monday through Friday.

C. All Saturday work shall multiply the number of crew days by a factor of 1.5. All Sunday work shall multiply the number of crew days by a factor of 2.0.

D. All holiday work shall multiply the number of crew days by a factor of 2.0. Holiday work shall include all legal holidays, and any other days when the Municipal Building of the City of Birmingham is officially closed.

E. The amount bid shall be included in comparative evaluation of the bids. OMISSION OF THIS ITEM, WHEN CALLED FOR, SHALL BE CAUSE FOR REJECTION OF THE BID.

F. The City of Birmingham will bill the Contractor six hundred and fifty ($650) dollars per day for each day they require inspection according to the Engineer. The bill must be paid monthly to the City of Birmingham Treasurer. A thirty (30) day grace period will be provided in which to pay the inspection bill, after which a 1% per month late fee will be assessed. All inspection bills must be paid prior to issuance of final payment.

G. In the event that the number of crew days required is less than the amount bid, the excess shall be paid to the Contractor at the end of the project. If the number of days required is more than the amount bid, the pay item shall remain as the amount bid, and all days used shall be due to the City prior to final payment.

H. If the quantity of work under the Contract varies from that stated in the Proposal, the number of "crew days" allowed under the bid item shall be increased or decreased in proportion to changes in the total value of work under the Contract. This revision in the number of crew days shall be agreed upon at the time the Contract quantities are revised.

I. The Contractor shall give the City Engineer at least twenty-four (24) hours notice, exclusive of Saturdays, Sundays or holidays, when the project requires an increase or decrease in the number of Inspectors. Failure to observe this requirement will either necessitate the charging of one-half (1/2) crew day if the Inspector appears on the project, or the halting of all additional work until an Inspector is available. Unless the Inspector is notified in advance, crew days will be charged when an Inspector appears on a project and the Contractor decides not to work.

J. A separate crew day shall be charged for each and every Inspector or Engineer employed on a project for inspection purposes.

K. The number of Inspectors or Engineers required for the complete inspection of any project shall be as determined by the City Engineer.

L. One (1) Inspector or Engineer shall be assigned to each construction crew or each operation listed below:

1. General
    a. Material Testing (not the operations done by a testing laboratory).
    b. Checking barricades and lighting.
    c. Checking maintenance of traffic.
    d. Emergency conditions, as determined by the Engineer.
    e. Measuring quantities when said measurements are taken during one of the operations included within this list.
2. Clean-Up and Complaints
    a. Replacement of driveways, sidewalks, pavement, etc.
    b. Checking restoration and answering complaints.
3. Water Mains and Appurtenances
    a. Excavation.
    b. Laying of Mains.
    c. Installing Valves and Hydrants.
    d. Tunneling, Jacking or Boring of Water Mains.
    e. Backfilling of Trenches.
    f. Restoration of Existing Conditions.
    g. Cleanup.

h. Pressure Testing.

i. Cleansing and Disinfecting.

j. Checking final installation for conformance to specifications prior to releasing for connections to be made.

k. The same Inspector may inspect the installation of hydrants, thrust blocks, gate wells, etc., in the proximity of the pipe laying operations, provided the Contractor cooperates to the extent that no portion of the work is covered prior to inspection.

4. Concrete Pavement

a. Excavation and Preparation of the Site.

b. Mucking and Filling Ditches.

c. Pavement Removal.

d. Subgrade Preparation and Fine Grading.

e. Adjusting and Reconstructing Existing Structures.

f. Sub-Base Construction.

g. Checking Form Alignment and Grade.

h. Placing of Concrete.

i. Constructing Compression Cylinders.

j. Finishing of Concrete.

k. Placing of Cold Weather Protection.

l. Sawing and Sealing.

m. Finish Grading.

n. Coring Finished Pavement (One (1) crew day will be charged for each twelve (12) cores taken).

o. Adjusting Existing Driveways and Sidewalks.

p. Seeding and Mulching.

q. Restoration.

r. Site Clean-Up.

s. Checking final pavement prior to final acceptance for conformance to specifications.

5. Sanitary, Combined, and Storm Sewers, and Appurtenances

a. Excavation and Preparation of the Site.

b. Checking Sewer Pipe.

c. Installing Pipe Bed.

d. Laying Pipe.

e. Installing House Leads.

f. Tunneling, Jacking or Boring of Sewer.

i. Mining Operation:

ii. Placement of Concrete:

-One (1) Inspector in Tunnel.

-One (1) Inspector Top Side.

g. Constructing Manholes, Catch Basins, Inlets.

h. Backfilling.

i. Restoration.

j. Infiltration or Ex-Filtration Tests.

k. Site Clean-Up.

l. Final checking of sewers prior to releasing for connections to be made or placing in service.

m. The same Inspector may inspect the installation of manholes, catch basins, inlets, etc., in the proximity of the pipe laying operation, provided the Contractor cooperates to the extent that no portion of the work is covered prior to inspection.

6. Reinforced Concrete Structures

a. Excavation for Structure.

b. Sheeting.

c. Checking Forms and Re-steel.

d. Placing of Concrete.

e. Backfilling Around Structures.

f. Checking Installation of Equipment.

7. Asphalt Paving and Pavement Resurfacing

a. Excavation.

b. Preparation of Subgrade.

c. Construction of Base.

d. Preparation of Existing Pavement.

e. Priming Base Course.

f. Construction of Bituminous Concrete Pavement or Surface.

g. Checking of Material.

h. Checking of Asphalt Plants.

i. Checking of Final Pavement for Conformance to Specifications.

j. Restoration.

k. Site Clean-Up.

M. Inspection rates for crew days will be charged as follows:

1. Half Day = $325.00

2. Full Day = $650.00

N. No payment on inspector crew days shall occur while the project is in progress. Upon final evaluation and inspection approval inspector crew days will be calculated and paid along with the final payment of the project to the contractor.

END OF SECTION

SECTION 500
WATER MAIN CONSTRUCTION

PART 1. GENERAL

1.01 SUMMARY

A. The work of this section shall consist of the installation of water mains, valves, risers, corporations, boxes, hydrants, water services and connections, of the size and character and at the locations shown on the drawings. This work shall include the provision of all labor, materials, equipment, and supervision required, including excavation, bedding, backfill, testing and sterilization and other incidental work necessary for a complete system. The Contractor shall set crosses, tees, bends, sleeves, and other special fittings in the main where shown on the drawings or directed by the Engineer. All unconnected openings of such special fittings shall be closed by standard plugs. All special fittings shall be incidental to the water main construction.

1.02 REFERENCES

A. Unless otherwise specified, all water main pipe materials shall conform to the latest edition of the applicable AWWA standard for construction.

B. Performance and material requirements shall meet specific Reference Standards as referred to hereinafter under individual items.

C. Unless otherwise specified, all materials shall also conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

1.03 CERTIFICATION AND INSPECTION

A. All pipe and fittings delivered to the job shall be accompanied by certification papers showing that the pipe and fittings have been tested in accordance with the applicable Specifications for this project. All pipe and fittings will be inspected upon delivery to the jobsite. No cracked, broken or damaged pipe will be allowed in this work.

B. Each piece of ductile iron pipe and each fitting shall have its weight and class designation conspicuously painted or cast on it. All other pipe materials shall have the class designation painted thereon. Where required, other designation marks shall be painted on the pipe or fittings to indicate correct location in the pipeline in conformity to a detailed layout plan.

1.04 SHOP DRAWINGS AND GUARANTEES

A. Contractor shall furnish shop drawings and guarantees of the items to be furnished under this section of the Contract. Design details of joints and joint restraint shall be submitted to the Engineer for consideration and approval before ordering any pipe.

PART 2. MATERIALS

2.01 WATER MAIN PIPE

A. All water main pipe supplied and installed on this project shall be Pressure Class 52 Ductile Iron Pipe (DIP) conforming to ANSI A21.5, latest revision.

B. Joints shall be push-on type conforming to ANSI A21.11, latest revision.

C. Ductile iron pipe shall be cement mortar lined and bituminous seal coated, in accordance with ANSI A21.4, latest revision.

2.02 POLYETHYLENE ENCASEMENT

A. All ductile iron pipe and fittings shall be encased with polyethylene encasement in accordance with the requirements of ANSI/AWWA Standard C105/A21.5-10.

B. Polyethylene encasement materials shall be manufactured of virgin polyethylene possessing the following characteristics:

1. Type, Class, Grade, other Characteristics:
   a. In accordance with A.S.T.M. Specification D-1248-84 or latest revision thereof.
   b. Type.....I
   c. Class A..... A natural color where exposure to weather (including sunlight) is less than forty-eight (48) hours total burial OR Black where exposure to weather (including sunlight) may be more than forty-eight (48) hours. Exposure to weather should be kept to a minimum, and in no case should it exceed ten (10) days.
   d. Grade..... E-1
   e. Flow Rate (formerly Melt Index) .....0.4 maximum
   f. Tensile Strength..... 1200 psi
   g. Elongation.....300%
   h. Dielectric Strength.... Volume resistivity, ohm-Cm3 = 1015 volts per mil thickness.
   i. Polyethylene tube material shall have a thickness of .008" (8-mils). Thickness tolerance shall not exceed 10% of the total tube thickness. A suggested tube size for each pipe diameter is listed in Table 1 below. For pipe sizes greater than 24", tube size may be determined by multiplying the nominal pipe diameter by 2.25 to obtain minimum flat tube width.

TABLE 1: Polyethylene Flat Tube Width (Inches)

Nominal Pipe Diameter (Inches)	Ductile Iron Pipe, Bell & Spigot Joints	Ductile Iron Pipe with Mechanical Joints
4	16	16
6	20	20
8	24	24
10	27	27
12	30	30
14	34	34
16	37	37
18	41	41
20	45	45
24	54	54

C. Adhesive tape used to connect Water main Polyethylene Encasement shall be a general-purpose adhesive tape two (2) inches wide and approximately ten (10) mils thick, such as Scotchrap No. 50, Polyken No. 900, or Tapecoat CT. Tape used for repair of damage to the polyethylene shall possess a life expectancy equal to that of the polyethylene.

2.03 FITTINGS

A. Ductile Iron Water Main Fittings shall be furnished in accordance with ANSI A21.10, latest revision.

B. Joints shall be mechanical joint or push-on, conforming to ANSI A21.11, latest revision. When called for on the plans or supplemental specifications, fittings shall be cement mortar lined as detailed for pipe.

C. When connecting to existing water mains, oversized fittings may be required to match the outer diameter of the older water mains. The Contractor shall determine sizes as necessary.

2.04 HYDRANTS

A. Hydrants shall be EJIW model 5BR with 6" mechanical joint inlet, two pumper nozzle, all opening left, 5'6" bury, plugged drain, block bolts.

2.05 GATE VALVES AND BOXES

A. All gate valves shall be of the resilient seat wedge type with mechanical joints.

B. Gate valves shall be designed for 150 psi working pressure and meet the requirements of AWWA Specification C509.

C. Gate valves shall be cast iron body, fully bronze mounted, bronze stem, O ring stem seal, non-rising stem and wedge disc with resilient rubber seat ring disc seat. Gate valves shall have a clear waterway equivalent in area, when fully open, equal to that of the connecting pipe.

D. Valves shall be made to open when turned to the left, or counterclockwise.

E. The gate valves shall have square wrench nuts.

F. Gate valves of the size specified shall be produced by either Mueller or East Jordan Iron Works.

G. Valve boxes shall be of the three (3) piece adjustable height type with cast iron curves with a 5 1/4" shaft diameter. The cover shall be marked "WATER". The length of the box shall be adequate for the depth of cover at the valve location.

2.06 WATER LEADS

A. All water service leads shall be of Type K copper of the sizes called for on the plans.

2.07 CORPORATION STOPS

A. Corporation stops shall be Mueller Model No. H-15000

B. Corporation Stops shall have an AWWA Taper threaded inlet with copper flare straight connection outlet.

C. Corporation Stops shall be manufactured and tested to meet ANSI/AWWA Standard C800.

D. Corporation stops shall be constructed of heavy-duty brass components meeting the requirements of ASTM B62.

2.08 CURB STOPS AND BOXES

A. Curb Stops shall be manufactured and tested to meet ANSI/AWWA Standard C800.

B. Curb stops shall be constructed of heavy-duty brass components meeting the requirements of ASTM B62.

C. Inlet and outlet shall both have copper flare straight connections.

D. Curb stops valve shall have Minneapolis pattern thread top

E. Curb stop valves shall be Mueller Model No. H-15154

F. Curb stop valves shall be Mueller Model No. H-10300.

G. Curb stop boxes shall be cast iron extension type with lid and plug and shall have a Minneapolis pattern base with a 1-1/4" inner diameter upper section. Curb stop boxes shall be furnished to include a valve box riser (EJIW 8500) and cover (EJIW 6800) to allow for a flush rim elevation to the sidewalk grade.

PART 3. CONSTRUCTION

3.01 CARE IN HANDLING PIPE

A. The pipe shall be distributed at the site by the Contractor as required and care shall be exercised to prevent injury to the pipe in handling. Proper tools and implements for safely handling the pipe and other materials shall be provided by the Contractor, and particular care shall be exercised to prevent the abrasion of the pipe coating which shall be repainted, if injured, with coal tar varnish properly mixed with oil and heated before applying. The Contractor shall keep on hand a sufficient supply of the coal tar varnish for such purpose.

B. Care shall be taken in handling cement-lined pipe. Hooks inserted inside the pipe shall have blunt ends which will spread the bearing to more than two (2) square inches of cement surface.

C. Pipe must be protected from falling, either from truck to ground or into the trench and, when distributed along the line or stored near a road, must be kept clear of passing vehicles.

D. All materials will be inspected before placing in the trench, and if defective, marked "REJECTED" and removed from the work by the Contractor at no additional expense to the City. All damaged materials shall be replaced by the Contractor at no cost to the City.

3.02 MATERIALS FURNISHED BY THE CITY

A. See the "General Requirements" section for materials furnished by the City.

3.03 SHUTTING OFF WATER

A. The Contractor shall familiarize himself with the locations of existing gate valves, and have the gates made easily accessible for emergency shut-offs. He shall always keep on the job all the necessary equipment to shut the water off and to make immediately emergency repairs without undue delay.

B. WARNING: Since some water mains and valves are old, it is not uncommon for valves to not shut off "tight". In such cases, it may be necessary to close additional valves and/or for the Contractor to contend with a flow of water through such valve(s).

C. In case of an emergency break in a water line due to his construction operations, it shall be the Contractor's responsibility to supply water for immediate needs to those deprived of such service.

3.04 EXISTING STRUCTURES AND UTILITIES

A. The Contractor shall notify all utilities of his intention to excavate or otherwise cause any underground disturbance, by calling MISS DIG at least three (3) full working days before commencing such excavation or disturbance.

B. Underground structures and utilities are shown on the construction drawings as an aid to the Contractor, but the Owner does not guarantee their location or that other underground structures or utilities may not be encountered. No attempt has been made to show utility services on the plans, and it shall be the Contractor's responsibility to locate them. The City will, whenever

possible, and when requested by the Contractor, stake the location of sewer and water services at the street right-of-way line.

C. In crossing over or under underground utilities, the Contractor shall use all possible care in protecting the utilities and to maintain their free unobstructed continuous use. The Contractor will be required without additional compensation to repair, replace or rebuild any such improvement injured or damaged by him, and he shall be responsible to the department, companies, individuals, or corporations controlling such improvements.

D. All underground utilities shall be supported on a foundation of sand or sand-gravel thoroughly compacted by mechanical tamping to prevent future settlement and possible failure of the utility. "Cement reinforced sand backfill" rather than "sand or sand 'gravel" shall be used under sewers and sewer services. Gas mains and gas services shall be supported in accordance with the requirements of the Consumer Power Company.

3.05 TRENCH EXCAVATION

A. Excavation shall be open cut. All work shall be done to true line and grade. The Contractor shall protect all line and grade stakes and he will be held responsible for any defective work occasioned by his negligence in this regard.

B. The trench shall be of sufficient depth to provide a cover above the crown of the pipe of at least five (5) feet.

C. The bottom of trench shall be excavated neatly to the required grade and filled two (2) inches with MDOT Class II sand thoroughly compacted by tamping before the pipe is laid.

D. Methods and equipment for excavating shall be such as will produce a trench without excessive width or irregularity. The width of trench shall be sufficient to allow the pipe to be laid and jointed properly and to allow the backfill to be placed and compacted properly.

E. The Contractor shall take great care to protect all trees and shrubs along the site of the work. No equipment will be permitted which causes excessive damage to existing trees along the site of the work.

F. If the trench at any point along the line will be opened nearer than six (6) feet to the face of the trunk of an existing tree, and in the opinion of the Engineer the excavation would be injurious to the tree, he may require the Contractor to tunnel under the tree at no extra cost to the City.

G. Selected excavated material may be used for backfilling under trees and it shall be thoroughly tamped to completely fill the excavated space.

H. Where the trench must be cut through concrete or asphalt pavement, driveways, or sidewalk particular care shall be taken not to damage adjoining areas. All cuts through existing concrete or asphalt pavements, and driveways shall be made with a concrete saw, except where an existing parallel joint is located not more than two (2) feet beyond the line of the intended saw cut. In that case the pavement or driveway shall be removed and replaced to the existing joint. Sidewalks shall not be saw cut and all removal and replacement shall go to existing joints. Pavement breaking using a drop weight may be limited or prohibited by the Engineer, if the Engineer determines the use of such equipment is causing damage to adjacent structures.

3.06 TUNNELING

A. Tunneling, Boring and Jacking under pavements or streets will not be allowed without the approval of the Engineer in writing, or unless noted on plans or in the Specifications. Where tunneling is permitted there shall be a minimum clear space of not less than six (6) inches between

the outside of the pipe in the tunnel and the face of the excavation or the sheeting or bracing that is nearest the pipe. Upon completion of the construction work in the tunnel, the sheeting and bracing (if any) shall be left in place and all the remaining space between the outside of the pipe and the excavation shall be filled with cement reinforced sand backfill thoroughly compacted. The Contractor shall receive no additional compensation for sheeting and bracing left in place in the tunnel.

3.07 EXCAVATED MATERIAL

A. The materials excavated and to be used in backfilling shall be so handled and stored as to cause as little inconvenience as possible to the public travel and adjoining property owners. The materials excavated and not suitable or needed for backfilling shall be disposed of by the Contractor at his own dumpsites.

B. Payment for handling the surplus excavated material, as outlined above, shall be included in the unit prices quoted in the proposal for pipe installation.

3.08 LAYING PIPE

A. Water mains shall be laid with a minimum of five (5) feet of cover from the top of the main to the final surface grade above the main, unless otherwise designated on the plans, authorized by the Engineer, or necessary to connect to existing fittings.

B. Before laying pipe, all lumps, blisters, and excess coal tar coating shall be removed from the bell and spigot ends of each pipe; the outside of the spigot and the inside of the bell shall then be wire brushed and wiped clean and dry.

C. Before lowering, and while suspended, the pipe shall be inspected for defects and rung with a light hammer to detect cracks. Any defective, damaged, or unsound pipe shall be rejected. The interior of each piece shall be inspected for cleanness and cleared of any dirt or foreign matter before being lowered into the trench.

D. Each length of pipe shall have bearing upon the sub-grade throughout the length of the barrel. The pipe will not be permitted to rest in the trench on any hard unyielding object such as stone, brick, etc. Blocking pipe up to proper level with blocking of any kind will not be permitted.

E. Unless otherwise directed, pipe shall be laid with bell ends facing the direction of laying. After a length of pipe is placed in the trench the spigot shall be centered in the bell of the adjacent pipe, the pipe shoved into position and brought into true alignment, and there secured with sand, carefully tamped under and on each side of the pipe.

F. When the temperature is above 60 degrees F., the spigot of each pipe laid shall be brought tightly home in the bell of the preceding pipe. When the temperature is below 60 degrees F., the pipe shall be laid with the spigot end approximately 1/16" from the face of the bell to allow for expansion.

G. Wherever deflections at joints are required by changes in grade or alignment or to plumb valve stems, the deflection at any joint shall not exceed three-quarters of the maximum deflection recommended by the manufacturer of the joint used.

H. Where necessary to cut pipe, cutting shall be done with approved tools and cut ends of pipe shall be square and regular. Cutting shall be done in a manner to avoid damage to lining and coating.

I. Spigot ends of field cut pipe shall be tapered back one-eighth (1/8) inch at an angle of thirty (30) degrees with the centerline of the pipe.

J. All branches or other openings shall be bulkheaded until either capped or connected. The end of the pipe shall be bulkheaded and braced at the end of each day's work.

K. Tools or other objects shall not be stored or left in the pipe.

3.09 JOINTING OF PIPE

A. Molded rubber gasket slip on type joints shall be used for jointing of pipe. Prior to positioning the rubber gasket, the bell and spigot shall be wiped clean. After properly positioning the gasket in the bell, the joint shall be lubricated with an approved lubricant.

B. The spigot end shall be centered into the bell end until it engages the gasket. The joining pipe shall then be aligned both vertically and horizontally before applying force to make the joint. Any deflection shall be taken after the joint assembly has been completed.

C. Mechanical joints may be used as an alternate for the slip-on type joining, if approved by the Engineer.

3.10 INSTALLATION OF POLYETHYLENE ENCASEMENT

A. Polyethylene encasement shall be installed on all new pipe and fittings installed on this project. Although not intended to be a completely air- and water-tight enclosure, the polyethylene shall provide a continuous barrier between the pipe and the surrounding backfill.

B. On Pipe:

1. Cut polyethylene tube to a length approximately two (2) feet longer than the length of the pipe section. Slip the polyethylene around the pipe, centering it to provide a one (1) foot overlay on each adjacent pipe section, and bunching it accordion fashion until it clears the pipe ends.
2. Lower the pipe into the trench and make up the pipe joint with the preceding section of pipe. A shallow bell hole must be made at joints to facilitate installation of the polyethylene.
3. After completing the joint, make the overlap. Pull the bunched-up polyethylene from the preceding length of pipe, slip it over the end of the new length of pipe, and secure in place with one circumferential turn of tape, plus enough new pipe section over the end of the first wrap until it overlaps the joint at the end of the preceding length of pipe. Tape it in place. Take up the slack width to make a snug, but not tight, fit along the barrel of the pipe, securing the fold as necessary with adhesive tape at quarter points.
4. Repair any rips, punctures, or other damage to the polyethylene with tape, or with a short length of polyethylene tube cut open, wrapped around the pipe, and secured with tape. Proceed with installation of the next section of pipe.

C. On Pipe – Alternate Method:

1. Cut polyethylene tube to a length approximately one (1) foot shorter than the length of the pipe section. Slip polyethylene around the pipe, centering it to provide six (6) inches of bare pipe at each end. Make polyethylene snug, but not tight; tape down at quarter points and secure ends as described above.
2. Before making up a joint, slip a three (3) foot length of polyethylene tube over the end of the proceeding pipe section, bunching it accordion fashion. After completing the joint, pull the three (3) foot length of polyethylene over the joint, overlapping the polyethylene previously installed on each adjacent section of pipe by a least one (1) foot; make snug, tape down, and secure each end as described above.
3. Repair any rips, punctures, or other damage to the polyethylene as described above. Proceed with installation of the next section of pipe in the same manner.

D. Bends, Reducers, Offsets, and other fittings that can be wrapped in a polyethylene encasement tube shall be covered with polyethylene in the same manner as the pipe.

E. Valves and other odd-shaped fittings which cannot practically be wrapped in a tube, shall be wrapped with a flat sheet obtained by splitting open a length of polyethylene tube. This sheet shall be passed under the valve and brought up around the body of the stem. Seams shall be made by bringing the edges together, folding over twice, and tamping down. Slack width and overlaps at joints shall be handled as described above. Tape polyethylene securely in place at valve stem and other penetrations.

F. Openings for branches, service taps, blow-offs, air valves and similar appurtenances shall be made by making an X-shaped cut in the polyethylene and temporarily folding the film back. After the appurtenance is installed, replace the film, and repair the cut, as well as other damaged areas in the polyethylene, with tape. Branches, service taps, blow-offs, air valves and similar appurtenances shall not be wrapped with polyethylene unless otherwise specified or shown on the drawings.

G. Junctions Between Wrapped and Unwrapped Pipe:

1. Where polyethylene wrapped pipe joins a pipe which is not wrapped, extend the polyethylene tube to cover the unwrapped pipe three (3) feet, unless shown on the drawings. Secure the end with circumferential turns of tape.

3.11 COATING OF BOLTS

A. All bolts and nuts installed by the Contractor shall be coated with coal tar.

3.12 SHORING, SHEETING AND BRACING

A. Where necessary for the safety of persons, adjoining structures, or property, or the work itself, the Contractor shall adequately sheet or shore the trenches and sides of all excavations and shall provide adequate support for such sheeting or shoring. The sheeting, shoring and supports shall be furnished, placed and maintained by the Contractor during the time of need for same.

B. As the excavations are backfilled, the Contractor shall carefully pull the sheeting and remove its supports in such a manner as not to endanger persons, adjoining structures or property or the work, taking care that the space left unfilled by the removal of the sheeting is compactly backfilled. No extra compensation will be allowed for removal of sheeting, shoring or supports.

3.13 THRUST BLOCKING

A. Bends, tees, dead end of pipe or fittings and hydrants shall have concrete thrust blocks installed in accordance with the details as shown on the contract drawings. No separate payment will be made for thrust blocks. This work is incidental to the installation of the water main.

3.14 GATE VALVES

A. The cost of installing gate valves in new water mains and in hydrant connections shall be included with the appropriate pay item for construct gate wells, install gate valve and box, or hydrant connection.

B. Payment for installing gate valves in existing mains will be made at the contract unit price each.

C. Gate valves and valve boxes shall be furnished by the Contractor.

3.15 GATE WELLS

A. Gate wells shall be constructed at the locations as indicated on the contract drawings.

B. Gate well walls are to be built of pre-case concrete meeting ASTM C-471, concrete block masonry, or brick masonry laid in full and close joint of cement mortar. The outside of masonry gate wells shall be plastered to a thickness of one-half (1/2) inch with mortar. The inside joints shall be left smooth. The ring shall be set in a bed of mortar and adjusted to the grade set by the Engineer.

C. Gate wells will be paid for at the contract unit price each, which will be payment in full for furnishing all materials (including Construction castings), for all necessary excavation, backfilling, disposal of surplus material, removing and replacing pavement, curb, curb and gutter, sidewalk, and driveways, and constructing the structure complete.

D. Where gate wells are constructed over new gate valves, the unit price shall cover furnishing and installing both the gate well and the gate valve.

3.16 HYDRANT INSTALLATION

A. Hydrants shall be set plumb and to the grade established by the Engineer.

B. Payment for hydrant installation will be made at the contract unit price each, which price will be payment in full for excavation; furnishing and installing a tee in the water main; furnishing and installing the hydrant, the gate valve, and the gate valve box; blocking; and backfilling.

C. Six (6) inch hydrant connection pipe from the main to the hydrant will be paid for at the contract unit price per lineal foot for installing six (6) inch ductile iron pipe.

3.17 HYDRANT REMOVAL

A. Wherever possible, hydrants to be removed shall be left in service until new hydrants to be installed are in service. The Contractor shall do all necessary excavation required and shall remove the hydrant and hydrant valve (if any) and cap and plug the hydrant connection at the main. After the connection has been capped or plugged, necessary concrete blocking shall be placed and before backfilling, the connection shall be tested for leakage. Salvaged hydrants and fittings shall be delivered by the Contractor to the Department of Public Services Yard.

B. Payment for hydrant removal will be made at the contract unit price each, which price will be payment in full for excavation, removing hydrant and gate valve, plugging, blocking, backfilling, removing the existing surface materials, and replacing the surface materials with the same type and thickness of material as removed.

3.18 BACKFILLING OPEN TRENCHES

A. Before the usual backfilling is commenced, sand backfill shall be placed along the side and under the lower haunches of the pipe up to the top or crown of the pipe for the full width of the trench. This sand backfill shall be placed manually in layers not exceeding six (6) inches in thickness. Each layer shall be thoroughly compacted by mechanical tamping or vibrating. The cost of placing this sand backfill to the top of the pipe shall be included in the unit price bid for installation of the pipe.

B. Insofar as practicable, without interfering with the progress of the work, the Contractor shall keep streets, driveways and sidewalks open to safe use by the public.

C. All trenches and excavations under existing pavement, proposed pavement, existing roadways, driveways or sidewalk shall be backfilled with sand or gravel and thoroughly compacted by mechanical tamping or vibrating in layers not exceeding 12 inches in depth. The Engineer may

require the Contractor to further consolidate the backfill by the water jetting method after compaction by mechanical means.

D. Backfill shall not be placed against any portion of a structure until it (structure) has passed inspection.

E. Where the trench or excavation is in the parkway between the roadway and the street line or in unimproved streets, excavated material may be used in completing the backfill. Care shall be taken in placing this backfill to make sure that all boulders, pieces of concrete and such other material that might damage the pipe or structure, or prevent consolidation are not allowed to remain in the backfill material and it shall be compacted by tamping, jetting, or using compacting equipment.

F. If a bulldozer or other machine is used to place the backfill material, no material shall be pushed or dropped into the trench but shall be placed on the sloping ends of the completed backfill and allowed to roll in place to the bottom of the trench.

G. All trenches and excavations shall be backfilled as soon as inspection is completed to avoid unnecessary risk of damage to the line and to reduce the risk of accidents involving the public.

H. After backfilling is completed, the Contractor shall promptly remove all surplus and waste materials from the site, leaving the site and all places disturbed or affected by the work in a neat and orderly and dust free condition.

3.19 NEW WATER MAIN CONNECTIONS TO EXISTING MAINS

A. When connecting to existing water mains, oversized fittings may be required to match the outer diameter of the older water mains. The Contractor shall determine if oversized fittings are necessary for each connection, and shall provide all necessary materials, parts, tools, labor, equipment and all incidental work required for the connection. No additional compensation will be made for the use of oversized fittings on any connection to an existing water main.

3.20 CONNECT WATER SERVICES TO NEW MAIN

A. This item involves connecting water services to new water mains. The water services to be connected to the new mains are currently connected to water mains that will be removed or abandoned under this contract.

B. The Contractor shall install corporations in the new main and connect the services at the corporations. Locations and sizes of existing water services are shown on the plans in accordance with the best information available to the City. However, there will be no adjustment made in pay items if the locations or sizes are different than those shown on the plans.

C. If the Contractor encounters a lead water service during the installation of the water main or water service connections, they shall notify the City of the lead water service. Once the material of the service is verified by the City, the Contractor shall remove and replace the lead service with a type K copper service to the property line.

D. New pipe necessary to make the connections shall be Type K Copper and shall be of the same size as the existing service.

E. For water service connections where the existing water service will cross the trench of the proposed water main installation, payment will be made for installing a water service connection using the existing water service lead (unless it is a lead water service). No payment will be made for installing new Type K Copper water service on these leads. Any new Type K Copper water

service required on these services shall be considered incidental to the construction of the water service connection.

3.21 MAINTENANCE OF TRENCHES

A. During the period between the time when a section of water main is completed and the time when the final pavement surface is replaced, the Contractor shall maintain the top of the trench in a suitable condition for traffic to use. The Contractor shall place a minimum thickness of three inches of cold-mix asphalt in all areas where pavements have been removed. Such cold-mix asphalt shall be maintained, and supplemented, if necessary, until such time as permanent pavement is replaced.

B. There is no separate pay item for maintenance of trenches, as that work is considered incidental to the water main construction.

3.22 SURFACE RESTORATION

A. Surfaces removed or damaged for the construction shall be replaced as follows, unless otherwise specified on the plans:

1. Existing Surface	Replaced By
a. Gravel (driveways, shoulders, etc.)	8" 23A aggregate
b. Bituminous mat	5" full-depth asphalt
c. Asphalt (full-depth or over aggregate)	5" full-depth asphalt
d. Concrete pavement	8" concrete
e. Asphalt surfaced concrete	8" concrete and 2" asphalt surfacing
f. Concrete sidewalk	4" concrete, except 6" at drives
g. Grass surface	3" topsoil plus seed or sod

B. For asphalt surfaces, the top shall be a wearing course mixture at one (1) inch minimum thickness. The balance of the thickness shall be: (a) leveling course mixture when over a concrete base and (b) base course mixture when in a full-depth asphalt.

C. Surfaces not described above, which are damaged for the construction, shall be replaced with the same type and thickness of material removed.

D. All surface restoration shall comply with the City's Standard Details and specifications for the specific type of work being done.

3.23 FLUSHING

A. Upon completion, the new main shall be flushed with potable water until the water runs clear in color and no foreign matter is discharged. The main shall be slowly filled and due care taken to expel all air from the main. A temporary connection may be installed to conduct the water out of the trench. Flushing shall be done in a manner that will not cause damage to adjacent property.

3.24 PRESSURE TEST

A. The completed main shall be pressure tested with water at a pressure of 150 pounds per square inch. This pressure shall be maintained for at least two hours and for such longer time as the Engineer may require. The leakage, as measured by water meter or by other means approved by the Engineer, from the section of main under test pressure shall not exceed a rate of 11.65 U.S. gallons per inch of main diameter per mile of pipe in twenty-four (24) hours. (See "Water Main Disinfection & Leakage Test" table at the end of this specification section).

B. In case the leakage under test exceeds the maximum above specified, the leaks shall be discovered and repaired in an approved manner.

C. Any faulty pipe, fittings, valves, or other accessories included in work under this Contract and disclosed during testing shall be replaced with sound material and the test shall be repeated until specified requirements are met.

3.25 CLEANSING AND DISINFECTION OF NEW WATER MAIN

A. Before the new water mains and appurtenances are placed in service, they shall be cleansed, sterilized, and the water passing through them must show by tests safe bacteriological results.

B. All rules and practices of the Oakland County Health Department, the Michigan Department of Public Health, and the Michigan Department of Environmental Quality must be strictly followed.

C. The Contractor shall provide all necessary connections at the points of beginning of the individual sections of mains for applying chlorine to the mains for disinfection purposes.

D. After water mains laid under this contract have been acceptably tested and flushed, they shall be disinfected by the Contractor, in accordance AWWA Standard C651. All new mains and pipe shall be chlorinated with up to fifty (50) parts per million or more of liquid chlorine, or approved equal, and the chlorinated water allowed to stand in the mains for twenty-four (24) hours, at the end of which period the chlorinated water at all parts of the new mains shall show a free available chlorine residual of not less than twenty-five (25) parts per million. If less than twenty-five (25) parts per million residual is shown at the end of the first twenty-four (24) hour period, additional chlorine shall be added until a residual of not less than twenty-five (25) parts per million at all parts of the new system is shown after a subsequent twenty-four-hour period. The chlorinated water shall then be removed from the mains by the Contractor and the mains left full of water ready for use. (See "Water Main Disinfection & Leakage Test" table at the end of this specification section).

E. After satisfactory chlorination of the mains has been completed as described above, and the chlorinated water flushed out and the mains filled with potable water, the Southeastern Oakland County Water Authority will take bacteriological samples of the water in the mains for analysis. If the analyses of samples show the Construction water to be unpotable because of unsatisfactory disinfection of the mains, the mains shall be re-chlorinated at the Contractor's expense until satisfactory samples are obtained. Any charges by the Water Authority for re-testing the water shall be paid by the Contractor.

3.26 PAYMENT FOR WATER MAINS

A. Measurement of completed and accepted water main laid will be made in lineal feet, measured on the axis of the pipe laid from the beginning to the end and shall include measurements through fittings and valves. Branches will be measured in lineal feet from the center of the tee or cross, on the supplying water main, to the end of the pipe or special casting including the cap or plug in the case of a dead end and to the center of hydrants.

B. The unit price per lineal foot of pipe laid shall include all excavating; tunneling; boring and jacking; sheeting; bracing; shoring and de-watering of trench; removing and replacing pavement, sidewalk, or other type of existing surface; furnishing, laying and jointing of pipe and fittings; installing gate valves; connecting to existing water main; installing blocking; all backfilling; flushing; pressure testing; and disinfecting.

3.27 WATER MAIN DISINFECTION & LEAKAGE TEST

TABLE 2: WATER MAIN DISINFECTION AND LEAKAGE TEST

Nominal Pipe Diameter (Inches)	Contents Per 1,000 Feet of Pipe		Pounds of Calcium Hypochlorite @ 65% to obtain 50 PPM Per 1,000 Feet of Pipe	Allowable Leakage (L)* in Gallons of Water Per 1,000 Feet of Pipe at 150 PSI in Two Hour Test
	Cubic Feet	Gallons		
4	87.3	650	0.42	0.74
6	196	1,470	0.94	1.10
8	349	2,610	1.67	1.47
10	545	4,080	2.62	1.84
12	785	5,880	3.77	2.21
16	1,396	10,400	6.67	2.94

*L = 11.65 gallons per day, per mile, per inch diameter at 150 psi., per AWWA C600.

SECTION 600
SEWERS AND RELATED STRUCTURES

PART 1. GENERAL

1.01 SUMMARY

A. This work shall include the furnishing of all labor, materials and construction equipment necessary for the construction of sewers of the size and character shown on the drawings and specified herein including the furnishing and installing of the pipe and bedding and necessary testing. This work shall include the provision of all labor, materials, equipment, and supervision required, including excavation, bedding, backfill, testing and sterilization and other incidental work necessary for a complete system.

B. The work of this section shall also consist of the furnishing and construction of manholes and catch basins including inlets as detailed on the Drawings and at the locations shown on the Drawings. Concrete, excavation and backfill shall be as specified in this section and other sections of the specifications. Manholes and catch basins shall be complete with frames, inlets, etc., to meet new or existing pavement surfaces, sidewalks, or grades and shall be included in the work under this section of the Contract.

C. Contractor shall check entire length of route for acceptability of site conditions, up to and including soil conditions, to perform this work prior to bidding and again prior to mobilizing on the site to perform the various work items.

1.02 REFERENCES

A. Performance and material requirements shall meet specific Reference Standards as referred to hereinafter under individual items.

B. Unless otherwise specified, all materials shall also conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

1.03 CERTIFICATION AND INSPECTION

A. All pipe and fittings delivered to the job shall be accompanied by certification papers showing that the pipe and fittings have been tested in accordance with the applicable Specifications for this project. All pipe and fittings will be inspected upon delivery to the jobsite. No cracked, broken or damaged pipe will be allowed in this work.

B. Each piece of pipe and each fitting shall have its weight and class designation conspicuously painted or cast on it. All other pipe materials shall have the class designation painted thereon. Where required, other designation marks shall be painted on the pipe or fittings to indicate correct location in the pipe line in conformity to a detailed layout plan.

1.04 SHOP DRAWINGS AND GUARANTEES

A. Contractor shall furnish shop drawings and guarantees of the items to be furnished under this section of the Contract. Design details of joints and joint restraint shall be submitted to the Engineer for consideration and approval before ordering any pipe.

PART 2. MATERIALS

2.01 SEWER PIPE

A. All sewer pipe supplied and installed on this project shall be of the sizes and types called for on the drawings.

1. Reinforced Concrete Sewer Pipe (RCSP): ASTM C 76, Class as designated on the drawings or special design conforming to ASTM C655;

2. ABS Solid Plastic Pipe: ASTM D-2751, SDR 23.5;

3. PVC Schedule 40 Sewer Pipe: ASTM D1785 "Standard Specification for PolyVinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120";

4. Polyvinyl Chloride Pipe (PVC) - ASTM D-2241, SDR 26. PVC compounds to meet ASTM D-1784.

5. Polyvinyl Chloride Pipe (PVC) - ASTM D-2241, SDR 23.5. PVC compounds to meet ASTM D-1784.

B. Precast Concrete Pipe shall meet the requirements of ASTM C76.

2.02 SEWER POINT REPAIR MATERIALS

A. The materials acceptable for use in making a point repair are listed below:

1. Sewer Pipe - The following types of sewer pipe may be used as replacement pipe for a point repair. They shall conform to the appropriate American Society for Testing Materials (ASTM) Specification as listed below and any other ASTM or other applicable specification:

a. PVC Schedule 40 Sewer Pipe for 10" and smaller only.
b. ASTM C76 Class IV Concrete Sewer Pipe for 12" diameter and larger.
c. Approved Equal

2. Sewer Connections and Appurtenances

a. Service Connection - Any service connection replaced during a point repair shall conform to the pipe manufacturer's recommendations and specifications and applicable ASTM Specifications, for the service connection and for installation of such. The material of the connection shall be similar to the sewer pipe it will be connected to.

2.03 PIPE BEDDING

A. All sewer six (6) inches in diameter and larger laid on this project shall be installed in conformance with the bedding requirements established on the cross-section on the plan. The gradation requirements for the crushed stone chips shall be according to the following:

1. Crushed stone chips shall be made from crushing sound limestone, dolomite ledge rock, or other materials as approved by the Engineer. Material shall be hard, tough, and durable. The crushing process shall produce material of which 85% to 100% of the particles shall have at least one machine fractured face. Crushed pea gravel will be acceptable if it meets this criteria:

a. For sewer pipe 18" in diameter or less, crushed stone chips meeting the gradation requirements of the following table may be used:

GRADATION REQUIREMENTS FOR 3/8" CRUSHED STONE CHIPS
(18" DIAMETER PIPER OR SMALLER)

Sieve Size	Percentage Passing by Weight
½"	100%
3/8"	90 - 100%
No. 8	0 - 15%
No. 30	0 - 3%

For purposes of this specification, MDOT Aggregate Mix No. 29A, using crushed limestone, will meet the requirements of this specification.

b. For pipe larger than 18" in diameter, crushed stone chip bedding meeting the requirements of the following table may be used:

GRADUATION REQUIREMENTS FOR 3/4" CRUSHED STONE CHIPS
(LARGER THAN 18" DIAMETER)

Sieve Size	Percentage Passing by Weight
1"	100%
3/4"	90 - 100%
3/8"	20 - 55%
No. 4	0 - 10%
No. 8	0 - 5%

For purposes of this specification, MDOT Aggregate Mix No. 17A, using crushed limestone, will meet the requirements of this specification.

2.04 STRUCTURES

A. Unless otherwise noted on the drawings or in supplemental specifications, precast manhole sections shall be used for all new sewer structures, including manholes, catch basins, and inlets. All concrete shall be 4,000 pounds per square inch, as determined by core test or cylinders. All precast sections shall bear the stamp of an approved testing laboratory as having been tested and delivered from tested stock of the manufacturer, at the expense of the Contractor. Precast reinforced manhole sections shall meet the requirements of current A.S.T.M. C-478.

B. The top section shall be an eccentric cone with one straight side (with manhole steps installed in straight side at the factory). The top section shall be set at an elevation to provide for three (3) courses of brick between the top face and the manhole frame when set to grade. All precast

manholes shall be standard tongue and groove using mastic joint materials equal to DeWitt No. 10. All interior joints shall be pointed with mortar and all visible leaks must be stopped.

C. Manhole frames and covers shall be E.J.I.W. #1040-A. Drainage structure frames and covers shall be E.J.I.W. #5080 with M1 grates, except where modified on the plan.

D. Cast iron manhole steps shall be castings meeting the requirements of A.S.T.M. Specifications for "Gray Iron Castings," A48, Class No. 35B. The steps shall be approximately 10" x 10" x 3". Steps in precast manhole sections shall be cast in place at the plant.

E. All manholes shall have channeled bottoms. For sewers 12" diameter or less, the channel shall be 3/4 depth of pipe. For sewers larger than 12" diameter, the channel shall be a minimum of 9" deep.

2.05 GRANULAR BACKFILL

A. Contractor shall install compacted sand backfill meeting MDOT Class II specifications, compacted to 95% maximum modified proctor density in the locations required per MDOT Standard Detail R-83-B, or where called for on the plans.

PART 3. EXECUTION

3.01 MEASUREMENT AND PAYMENT

A. Where called for in the proposal, the compensation to the Contractor for the sewer installation of the diameter specified will be paid for at the contract unit price per lineal foot measured in place along the center of the pipe. The contract unit price for this work shall be payment in full for furnishing the materials including wyes and all necessary excavation, sheeting or bracing, draining, laying, jointing, bedding, backfilling, disposal of surplus materials, testing, and restoration, and all other work incidental to the construction of the sewer. Final measurements for sewer will be total lineal feet from center to center of standard manholes or center of manholes to face of tunnel sewers where connection only is made thereto.

B. Junction chambers, gate chambers, and other special structures will not be included in measurements of the sewer. Sewer measurements at these structures will end and begin respectively at inside wall of outlet and inlet end respectively, unless otherwise indicated on the plans.

C. Unless specified otherwise, manholes and drainage structures will be paid for at the contract unit price each, which price shall be payment in full for furnishing the materials, including the required fittings, frames, and full grates, steps, and for all labor, equipment and tools, all necessary excavation, backfilling, disposal of surplus material, and all work incidental to the completed structures.

3.02 PIPE DELIVERY

A. A test certificate from an independent testing laboratory showing strength of pipe when tested in accordance with the applicable A.S.T.M. Standards shall be submitted to the Engineer before pipe is delivered to the job site. One certificate shall be furnished for each size of pipe. The Engineer may require additional tests of pipe stored at the plant or delivered to the job, should he have reason to believe that inferior pipe is being delivered on the job. The cost of each test shall be borne by the Contractor. The pipe supplier shall also furnish a certificate stating that all pipe supplied was manufactured from substantially the same material and in the same manner as pipe tested and all pipe delivered to site shall have the test stamp of the testing laboratory making such tests.

B. The pipe shall be distributed at the site by the Contractor as required, and care shall be exercised to prevent injury to the pipe in handling. Proper tools and implements, for safely handling the pipe and other materials, shall be provided by the contractor.

C. Pipe must be protected from falling, either from truck to ground or into the trench, and when distributed along the line or stored near a road, must be kept clear of passing vehicles.

D. The Contractor shall place the pipe so as to cause the least amount of interference to abutting property owners and traffic using the street. Barricades and lighting shall be provided at intersections and other locations where the pipe will interfere with pedestrian or vehicular traffic.

E. All damage caused by storage of the pipe on the construction site shall be repaired by the Contractor, including but not limited to sidewalks, driveways, lawns, and shrubbery. No pipe shall be allowed to be stored longer than three days prior to beginning construction on the section of sewer.

F. All materials will be inspected before placing in the trench, and if defective, marked "REJECTED" and removed from the site by the Contractor. All damaged materials shall be replaced by the Contractor at no additional cost to the City.

3.03 EXISTING STRUCTURES AND UTILITIES

A. Underground structures and utilities are shown on the construction drawings as an aid to the contractor, but the owner does not guarantee their location or that other underground structures or utility services on the plans, and it shall be the Contractor's responsibility to locate them. The City will, whenever possible, and when requested by the Contractor, stake the location of sewer and water services at the street right-of-way line.

B. In crossing over or under underground utilities, the Contractor shall use all possible care in protecting the utilities and to maintain their free unobstructed continuous use. The contractor will be required without additional compensation to repair, replace or rebuild any such improvement injured or damaged by him, and shall be responsible to the department, companies, individuals or corporation controlling such improvements.

C. All underground utilities shall be supported on a foundation of sand or sand-gravel thoroughly compacted by mechanical tamping in order to prevent future settlement and possible failure of the utility. Under sewers and sewer services "cement reinforced sand backfill" rather than "sand or sand gravel" shall be used. Gas mains and gas services shall be supported in accordance with the requirements of the Consumers Power Company.

3.04 MAINTAINING FLOW

A. All combined sewers will likely have continuous dry weather flows, all of which shall be diverted in a safe manner so as to cause no inconvenience to the public. Special care must be taken to ensure that no part of the work is built under water, and the work must remain dry until all concrete and/or mortar has set up.

3.05 EXCAVATION

A. Excavation shall be open cut from the surface. All work shall be done to true line and grade. The Contractor shall remove all obstructions or encumbrances (except those which are specifically noted to be preserved) which may be in the proposed line of the sewer, the cost of doing such work shall be included in the contract unit price per lineal foot for laying sewer.

B. Trenches shall not be excavated for a distance greater than fifty (50) feet in advance of completed sewer without the permission of the Engineer.

C. Excavated material permitted to be used for backfill may be deposited along the line of work where space permits provided it does not cause damage to trees, shrubs, fences, etc., nor cause excessive inconvenience to public travel and adjoining property owners, nor endanger the bank of the trench by imposing too great a load thereon. All material in excess of the quantity permitted for backfilling and all materials unsuitable for backfilling shall be hauled away by the Contractor at his expense in an expeditious manner.

D. Excavation shall be of sufficient widths and depths to provide adequate room for the construction and installation of the work to the lines, grades, and dimensions called for on the drawings, except the width of a trench from the invert to a height twelve inches above the top of the sewer barrel shall not be greater than as follows:

Pipe Size	Maximum Trench Width
12" or less	30"
15" to 36"	O.D. + 12"
42" or greater	O.D. + 24"

E. If the trench width as specified above is exceeded, the Contractor shall install, at his own expense, concrete cradling or other approved bedding, to support the additional backfill load. In case the bottom of the trench is unsuitable as a foundation, it shall be further excavated and prepared. If the unsuitable condition of the foundation is caused by factors beyond the Contractor's control, the additional excavation and preparation will be paid for as extra work.

F. Where, through the Contractor's construction procedure, or because of poor existing ground conditions, it is impossible to maintain alignment and grade properly, the Contractor shall, at his own expense, excavate below grade and replace with large size aggregate or slag in order to insure the pipe, when laid, will maintain correct alignment and grade.

G. If the trench at any point along the line will be opened nearer than six (6) feet to the face of the trunk of an existing tree, and in the opinion of the Engineer the excavation would be injurious to the tree, he may require the Contractor to tunnel under the tree.

H. Selected excavated material may be used for backfilling under trees and it shall be thoroughly tamped to completely fill the excavated space between the pipe and excavation by means of mechanical tampers.

I. Where the trench must be cut through concrete or asphalt pavement, driveways, or sidewalk, particular care shall be taken not to unnecessarily damage adjoining areas. All cuts through existing concrete or asphalt pavement, sidewalks or driveways are to be resurfaced with like materials. Pavement breaking by the use of a drop weight is prohibited.

J. Excavation shall be sheeted and braced as necessary to ensure complete working safety and to protect adjoining structures or conduits. If at any time the Engineer has reason to believe that the sheeting or bracing installed by the Contractor is insufficient, he may require that an additional amount shall be placed, but such requirement or failure to make such requirements shall not relieve the Contractor from his liability.

K. No extra compensation shall be paid the Contractor for sheeting or bracing left in place, unless ordered left in place by the Engineer and then only a fair salvage value for the material left in place shall be paid. The Contractor shall receive no extra compensation for sheeting or bracing left in place in tunnels.

3.06 TUNNELING

A. Tunneling under pavements or streets will not be allowed without the approval of the Engineer in writing, or unless noted on plans or in the Specifications. Where tunneling is permitted, there shall be a minimum clear space of not less than six (6) inches between the outside of the pipe in the tunnel and the face of the excavation or the sheeting or bracing that is nearest the pipe.

B. All space outside the finished sewer wall shall be completely filled with 1:2 cement-sand grout applied under pressure.

C. Facilities for ventilation and lighting shall be supplied as necessary for reasonable working conditions and for inspection.

D. Any excess trench excavation made below the pipe shall be refilled with crushed stone, sand, or concrete as directed by the Engineer. Under all conditions, sewer pipe shall have a firm bearing which will insure permanent grade and alignment and proper support against crushing load.

E. Upon completion of the construction work in tunnel, the sheeting and bracing, if any, shall be left in place and all the remaining space between the outside of the pipe and the excavation shall be filled with cement reinforced sand backfill and thoroughly compacted.

F. When boring under pavement, the pit must be a minimum of ten (10) feet away from the pavement edge, unless previously approved by the Engineer.

3.07 LAYING PIPE

A. Unless otherwise allowed under specific specifications for a particular type of sewer or unless permitted by the Engineer, construction shall begin at the outlet end of sewer and proceed upgrade.

B. All pipe shall be laid true to line and grade and the ends of the pipe shall abut against each other with the bell end facing the direction of laying. Each pipe as laid shall be checked by the Contractor with line and a grade pole or a laser beam to insure that this result is obtained.

C. Alignment of laser beams shall be checked with sufficient frequency to assure compliance with plans.

D. Each pipe shall be inspected for defects prior to being lowered into the trench and inside of pipe and outside of spigot shall be cleaned of any dirt or foreign matter.

E. Proper support and bedding of all pipe through the full length of the barrel shall be made by constructing bedding as required and detailed on the plans. Special care shall be observed to avoid load on bells of bell and spigot pipe. Each pipe shall be pushed firmly against pipe previously placed and carefully aligned.

F. Mechanical means, consisting of a cable placed inside the pipe with a suitable winch, jack, or come-along for pulling the pipe home and holding the pipe in position, shall be used where the manual means will not result in pushing and holding the pipe in position.

G. Work executed during the winter shall receive exceptional attention to avoid excessive backfill load on pipe. If sides of trench are frozen, the amount of selected material tamped above the pipe shall be increased to at least two feet. No frozen backfill material shall be used.

H. At manholes the pipe shall be placed on a concrete cradle from the manhole to the point where the sewer trench does not exceed the specified width and shall be done in accordance with the City of Birmingham "Underground Structures and Water Main Standards".

3.08 JOINTS

A. All sewer joints shall be sealed with flexible, watertight, rubber type gaskets; pre-cast die molded bituminous material as used on slip seal pipe; or an approved equal. Before placing the pipe in position in the trench adjusted to grade, the joint compound on both ends of the pipe shall be painted with suitable solvent or lubricant material. The spigot or tongue ends of the pipe to be laid shall be inserted and shoved home against the base of the socket last laid. Throughout this operation every effort shall be taken to prevent sand or gravel from entering the joint or pipe.

B. Joint material shall be applied to the pipe on the day the pipe is placed in the trench. Joint material shall be stored in closed containers when unattended.

C. Concrete pipe 36" and larger shall have all joints inside cement pointed, with cement mortar compound of one (1) part cement and two (2) parts of sand. Mastic compound or any foreign material within 3/4" below inside finish of pipe shall be thoroughly removed before cement grout is applied.

3.09 MANHOLES, DRAINAGE STRUCTURES

A. Manholes and drainage structures shall be constructed of the type and in accordance with the details shown on the plans and at the locations shown on the plans. All necessary steps, frames, and covers shall be furnished and installed. Covers shall be set at the required final elevation so that no subsequent adjustment shall be necessary.

B. Excavation shall be carried to the depth required to permit the construction of the required base and bottom of excavation shall be trimmed to a uniform horizontal bed. The excavation shall be sufficiently wide to allow for shoring, bracing, or form work, should any or all be necessary, and to allow for accessibility in plastering the exterior of brick masonry. The excavated section shall be completely de-watered before any concrete is placed thereon.

C. Concrete shall be Grade A 3,000 pounds per square inch compressive strength, minimum content 1.375 barrels per cubic yard.

D. Brick shall be made of clay or shale or concrete brick and shall be whole, thoroughly and evenly burned, of close and uniform texture, free from cracks and warps, with even faces and uniform texture, and uniform in shape and size. Brick shall show a minimum average compressive strength of 2,000 pounds per square inch and average absorption of water in twenty-four (24) hours of not more than 22 percent of dry weight.

E. The brick shall be laid radially in courses in a full bed of mortar with interior joint not more than 1/4" in width. Whole bricks only shall be used except to effect closure and to fill in the outside portion of the radial joints. Each seventh course shall be laid in "stretchers," the intervening courses shall be composed of "headers". Below a depth of thirteen (13) feet, walls of brick manholes shall be laid in alternative stretcher and header courses.

F. When completed, manholes and drainage structures shall have sand or gravel placed uniformly around the structure in one foot lifts, and compacted in place. No backfill shall be placed around manholes or structures for twenty-four (24) hours, if an outside plaster coat has been applied.

G. Manholes and Structures shall not be placed under conditions which may be expedited to result in defective work. If the soil at the established grade is not sufficiently stable to properly support structures, the Contractor, at his own expense, shall excavate up to 24" below grade and refill the trench to the proper grade with compacted crushed stone chips. If stable support cannot be established in this manner, the work shall be discontinued until plans for change in construction have been submitted by the Contractor to the Engineer for approval and approval has been granted.

3.10 SERVICE CONNECTIONS

A. Service connections shall be made to sewers with "wyes" manufactured on the sewer pipe. Breaking holes in the pipe will not be allowed without specific authorization of the Engineer.

3.11 SHEETING AND BRACING

A. Where necessary in order to construct the work called for by the contract, to insure the safety of the men, or to protect other things of value, the Contractor shall adequately sheet or brace all open excavation or tunnels. The Contractor shall install additional sheeting or bracing as directed by the Engineer, but such order, or failure to give such order, shall not release the Contractor from his liability for damage to person or property under this contract.

B. All sheeting, shoring and bracing, unless left in place as ordered by the Engineer, shall be removed from open trench work progressively with the backfilling operations in order to prevent slides from the sides of the trench. All sheeting left in place shall be cut off five (5) feet below ground line.

3.12 PUMPING, BAILING AND DRAINING

A. The Contractor shall provide and maintain adequate pumping and drainage facilities for removal and disposal of waste from trenches or other excavation.

B. Where the work is in ground containing an excessive amount of water, the Contractor shall provide, install, maintain, and operate suitable well points, connecting manifolds, and reliable pumping equipment to operate same to insure proper construction of the work.

C. In no case shall water be allowed to rise in or about the pipe before the joint has become thoroughly set. No walking on or over the pipes after they are laid, except as may be necessary in tamping the earth in refilling, will be permitted until they are covered with earth to a depth of twelve (12) inches.

D. Drainage or discharge lines shall be connected to adjacent public storm sewers or extended to nearby watercourses wherever possible. In any event, all pumping and drainage shall be done without damage to any highway or other property, public or private, and without interference with the rights of the public or private property owners.

E. The Contractor shall receive no extra compensation for providing, maintaining, or operating any de-watering or drainage facilities.

3.13 BACKFILLING

A. It is the intent of these specifications that all of the excavation be backfilled with thoroughly consolidated, suitable material in such a manner that the alignment and grade of the construction work in the excavation be not disturbed and that the subsequent settlement of the surface over the excavation and adjacent thereto be avoided as far as possible.

B. Insofar as practicable, without interfering with the progress of the work, the Contractor shall keep streets, driveways and sidewalks open to safe use by the public.

C. All trenches and excavations under existing pavement, proposed pavement, existing roadways, driveways or sidewalk shall be backfilled with sand or gravel and thoroughly compacted by mechanical tamping or vibrating. Where the existing roadway or driveway is gravel surfaced, the top eight (8) inches of the backfill shall be road gravel. The Contractor will not be required to replace any oil treatment or seal coat, however, he shall maintain the top of the trench in a dust free manner until completion of the project. No additional payment will be allowed for the sand or gravel backfill, the cost of which shall be included in the unit price bid for the installation of the pipe and structures.

D. Backfill shall not be placed against any portion of a structure until it (structure) has passed inspection.

E. Where the trench or excavation is located in the parkway between the roadway and the street line or in unimproved streets, excavated material may be used in completing the backfill. Care shall be taken in placing this backfill to make sure that all boulders, pieces of concrete and such other material that might damage the pipe or structure, or prevent consolidation are not allowed to remain in the backfill material and it shall be compacted by tamping, jetting, or by use of compacting equipment.

F. If a bulldozer or other machine is used to place the backfill material, no material shall be pushed or dropped into the trench, but shall be placed on the sloping ends of the completed backfill and allowed to roll in place to the bottom of the trench.

3.14 EMERGENCY REPAIR

A. When the Contractor is not actively performing work on a particular construction site, but where delayed construction operations, testing and/or surface restoration work yet remains to be completed to meet the requirements of the Specifications, situations may arise of an emergency nature as a result of such uncompleted work which may affect directly or indirectly public and/or private property or which may ultimately, either directly or indirectly, affect the health, safety, and welfare of individuals or the general public. While these situations can readily develop as emergencies, the Engineer shall direct field related operations and require immediate efforts by the Contractor to remedy the deficiency in a method of his choosing because of his expertise in the field, time being of the essence. The correction of the emergency which may arise when no construction activity exists on the construction site shall be handled in the following manner.

1. The Engineer shall inspect the site, take any necessary photographs and/or prepare any necessary sketches of conditions at the site to determine that the situation constitutes an emergency.

2. The Engineer then has three (3) alternate sources of manpower and equipment to be selected to remedy the emergency situation in the following order:

   a. The Contractor under contract with the Owner to perform all work on the site location in question.
   b. The City's Department of Public Services (DPS).
   c. An independent contractor designated by the Engineer.

B. Since the nature and extent of most unfinished work on a particular construction site is well known by both the Engineer's authorized agent and the Contractor at the time of declaring an "emergency situation" as set forth herein before the Contractor, under contract to the Owner for the particular project, the Contractor would be the first party notified and would be expected to respond immediately with necessary labor and equipment to remedy the problem.

C. If a reasonable time to respond to the emergency notification is not evident, in the best judgment of the Engineer, then the Contractor shall be judged to have waived his rights to physically correct the problem, but not to his obligations to pay for such physical correction or damages resulting therefrom. The Engineer shall then contact the City's DPS for their assistance in correcting the "emergency situation". Where existing commitments by the DPS prohibits their immediate response to the request of the Engineer, the Engineer shall finally direct that corrective measures be performed by the independent contractor noted above to perform such work when so directed.

D. Since the cost for all remedial work undertaken by the Contractor on this project shall be borne by the Contractor and it is necessary to engage the assistance of the DPS or an independent contractor, then all costs incurred shall be deducted from monies due and payable to the Contractor on the particular project as set forth on any ensuing regular job estimates.

E. Typical costs which will be deducted from the contractor monies due would be as follows:

1. Payroll wages, benefits, and taxes.
2. Material bills.
3. Equipment rental (Detroit area rates) and mobilization costs.
4. 15% profit and overhead for independent contractor.
5. Inspection costs.

3.15 POINT REPAIRS TO SEWER LINES

A. It is the intent of the specifications to provide a basis by which a contractor can successfully and completely make a point repair to a sanitary sewer line. This basis shall cover all aspects of a point repair including methods, materials, and payment for work.

B. A point repair to a sanitary sewer line shall be defined as a repair made at a specified location on a sanitary sewer line.

C. A point repair shall be classified by the inside diameter of the pipe and the length of pipe replaced.

D. Methods:

1. The method by which a repair shall include all supervision, labor, equipment and materials necessary to perform and successfully complete the following items:

a. Excavating a trench deep enough to uncover a sanitary sewer line, wide enough to work in, and long enough to uncover up to twenty (20) linear feet of sewer pipe while providing protection of adjacent utilities, pavements, etc.
b. Remove any landscaping fences, asphalt, concrete, base material, storm sewer, etc., that interferes with the repair made at each specified point, and for the replacement of said landscaping, fences, asphalt, concrete, base materials, storm sewer, etc., in the same or better condition as found. Any such item not replaced in the same or better condition as found, as determined by the Engineer, shall be redone at the Contractor's expense.
c. De-water any trench where excess water accumulates and installation, as required, of compacted sand backfill under paved area.
d. Replace and reshape the bottom of the trench so that the grade of the pipe replaced will match that required for the existing sewer line. Any material replaced in the bottom of the trench shall be compacted so as to prevent sags in the sewer line due to settlement of the trench material.
e. Repair and replace up to twenty (20) feet of the existing sewer pipe with the properly sized pipe the same as existing, as needed.
f. Repair and replace any house service lateral encountered within the required twenty (20) linear feet of uncovered pipe with properly sized service, as specified and with enough sewer pipe to reconnect to the service line where it was severed.
g. Tie all new laid sewer pipe to existing sewer pipe, main sewer lines and service lines, so that no possible source of infiltration/inflow (a leak in the line) may be created.
h. Any sewer pipe broken by the Contractor, outside of the required twenty (20) linear feet of pipe, shall be replaced or repaired at the Contractor's expense. All such

occurrences shall be pointed out by the Contractor to the Engineer when they happen. The materials to use for making the tie-in shall be properly sized.

i. Backfill the open excavation so that the ground elevation will most nearly match the elevation before excavation.

E. Bypass Pumping:

1. On all sewer lines in which a point repair is to be made, the normal flow of sewage shall be re-routed by bypass pumping.

END OF SECTION

SECTION 605
INTERNAL SEWER INSPECTION

PART 1 GENERAL

1.1 SUMMARY

A. It is the intent of these specifications to provide a basis for which a sewer line can be internally inspected by a Closed Circuit Television (CCTV) camera. The inspection shall include providing the Owner with digital videos, images, and reports that include condition and other descriptive data related to the sewer. This basis shall include all aspects of televising including method, equipment, and payment for work.

B. This Section shall include all supervision, labor, equipment, materials, traffic control, temporary plugging and/or bypassing of flow, disposal of debris, required cleaning, video media, still pictures and any applicable electrical service necessary to successfully complete the inspection and assessment of the designated lines, as well as the required reporting and deliverables which includes the Contractor providing the Owner with applicable recommendations for corrective actions.

C. The Contractor shall provide and furnish all required skilled and unskilled labor, materials, fuel, machinery, tools, so that the contract and all work required to be done under the contract can and will be carried on continuously and expeditiously to completion, in all respects to the satisfaction of the Owner.

D. The sewer lines for which televising is required are shown in these Contract Documents.

1.2 REFERENCES

A. Abbreviations and Acronyms
   1. NASSCO - National Association of Sewer Service Contractors
   2. PACP - Pipeline Assessment and Certification Program
   3. MACP - Manhole Assessment and Certification Program
   4. LACP - Lateral Assessment and Certification Program

B. Definitions
   1. Reverse Setups - a situation that arises when the television camera cannot pass through the manhole section, making it necessary to reverse the positions of the television equipment and enter the sewer from the opposite direction

1.3 QUALIFICATIONS

A. The Contractor performing the work shall be a company specializing in performing internal sewer inspections, and shall have a minimum experience of at least three other projects of similar size and scope within the last five years that included surveying, processing, and interpretation of data associated with CCTV inspections.

B. The work shall be performed under the supervision of personnel trained and certified in the use of NASSCO's PACP for the inspection of sewer mains, LACP for the inspection of laterals and MACP for the inspection of manholes.

1.4 SUBMITTALS

A. Prior to initiation of work, the Contractor shall submit for Owner review and approval the following:
   1. Data sheets for proposed CCTV equipment, description of proposed electronic storage device (hard drive, etc.) and proposed electronic file formats.
   2. Description of proposed software for recording inspection logs along with a sample of a typical log and samples of all required reports as described in this Section.
   3. Proposed sequence and schedule, and sample resident/business notification letter.
   4. Contact information for Contractor's staff including mobile phone and email, and emergency contact information.

1.5 QUALITY ASSURANCE

A. After completion of one week of Internal Sewer Inspection (or alternative period as approved by the Owner), the Contractor shall provide the Owner with a sample of the required deliverables for the work completed for review and approval of format.

1.6 REPORTING

A. The Contractor shall record any and all defects such as radial and linear cracks no matter how minor, dips, blockages, or obstructions, pipe joint conditions, infiltration and calcite buildup, lateral connections, root infiltration, deterioration of pipe material surface, penetrating utilities, etc. The Contractor shall record the characteristics and defects observed using the NASSCO PACP/MACP/LACP Inspection Report format and coding for each sewer segment. All pipes, manholes, laterals and other structures shall be in identified using Owner naming convention. The operators NASSCO certification number shall be recorded on the Report.

B. Location of defects shall be given as a distance from the starting point and location around the pipe (i.e., 2 o'clock)

C. The Contractor shall provide the following reports for each inspected segment that include all descriptions in NASSCO format of all defects found as part of the survey, all NASSCO header information, and identify the asset using the Owner's identification system:
   1. Graphic Reports, include;
      a. Linear sketch of the inspected manhole or pipe/lateral segment showing defect locations
      b. List of the individual defects
      c. Defect "grade" assigned using the NASSCO PACP/MACP/LACP Condition Grading System guidelines.
   2. Tabular Reports, include;
      a. List of the individual defects

b. A defect "grade" using the NASSCO PACP/MACP/LACP Condition Grading System guidelines
c. NASSCO segment scores, including
1) Overall Pipe Rating (Structural, Maintenance, and Overall)
2) Pipe Rating Index (Structural, Maintenance, and Overall), and
3) Quick Scores (Structural, Maintenance and Overall.)

3. Defects by Inspection Report
a. Generated at completion of the project, or at intermediate milestones as required by the Owner
b. Includes;
1) A tabular list of all segments inspected to date,
2) The surveyed length for each segment,
3) A count of defects encountered for each segment,
4) Quick rating scores and,
5) The overall pipe rating index

D. Submit Samples of Contractor Reports for Owner approval prior to starting project.

E. Provide Final Reports in accordance with Required Deliverables.

F. Sample reports are provided at the end of this Section.

1.7 REQUIRED DELIVERABLES

A. The Contractor shall deliver to the Owner one hard copy each of the Graphic Report and Tabular Report for each segment inspected, and one hard copy of the Defects by Inspection Report that summarizes all segments inspected during the project. The copies shall be housed in protective three-ring binders labeled to include the Project Name, Contractor Contact Information, Project Date and area surveyed. The Contractor shall also submit preliminary copies of the Graphic Report and Tabular Report for areas completed for review by the Owner as the project progresses. All reports shall also be provided in Adobe PDF format. The final Defects by Inspection report shall also be provided in an editable format, such as Microsoft Excel format.

B. The Contractor shall deliver to the Owner digital copies of all video recordings, still photos, and other media for the segments inspected. The files shall be accessible using commonly-installed software, or a viewer may be provided instead.

C. All electronic records and digital files shall be provided to the Owner on a suitable data storage device (CD, DVD, hard drive, etc.) The devices shall be labelled to correspond with the hard copy inspection reports. Labels shall be permanent with complete project information.

D. The Owner reserves the right to reject any or all televising and recording of sewer segments due to poor quality or clarity of defects. If necessary the Contractor shall re-inspect those segments as determined by the Owner at no additional cost to the Owner.

E. All video recordings, still images and reports shall become property of the Owner without restriction for copying, re-use or publication.

1.8 ACCEPTANCE

A. A daily log of work accomplished shall be duly recorded and acknowledged by the Owner and the Contractor's superintendent.

B. All inspection recordings and reports will be reviewed by the Owner. The Owner shall have the authority to reject all or any portion of recordings not conforming to Specifications. These areas shall be re-inspected at no additional charge.

1.9 SAMPLE REPORTS

A. Sample of the required reporting is provided at the end of this Specification (Section 3.8).

PART 2 PRODUCTS

2.1 INSPECTION EQUIPMENT

A. General:
1. Provide equipment as required for the proposed work to perform inspections of sewer mains, manholes and/or laterals. Laterals shall be inspected from mainline to property line or cleanout located in streets, street rights-of-way, and off road easements.
2. Equipment shall include but not be limited to portable CCTV equipment, vehicles capable of transporting TV equipment and accessing remote easements, cleaning equipment, and any additional equipment and supplies required to allow for communication between personnel and to maintain a safe working environment. The Contractor shall have on site fans and/or blowers necessary to remove any fog or steam that may be present, during or caused by the inspection of the piping system. All cost incurred in the use of fans or blowers shall be considered incidental to this project. No inspection of pipe shall proceed while fog is present.
3. Necessary playback equipment shall be readily accessible in the field for Owner to perform periodic review of the inspection work.

B. Sewer Main CCTV:
1. All equipment used for televising sewer lines shall be of the highest quality and shall have high performance capabilities. It shall be operative in 100 percent humidity conditions and shall be specifically designed for the proposed work.
2. The CCTV camera shall be of the remotely operated pan and tilt type. The rotating camera and lighthead configuration shall provide 240 degrees of pan and tilt angle measuring centerline to centerline and minimum 65-degree lens viewing angle.
3. The camera shall be color and shall provide a minimum of 460 lines of horizontal resolution and 400 lines of vertical resolution.
4. The color camera shall be equipped with the necessary circuitry to allow for either automatic or remote adjustment of the optical focus and iris from the power control unit at the viewing station.

5. Mounting: Cameras may be mounted on conventional camera skids, floating skids or rafts, or maybe handheld and carried manually through larger diameter sewers.
6. Lighting: Suitable to allow clear picture of entire inner pipe wall extending at least 10 feet in front, including black High Density Polyethylene (HDPE) pipe.
7. Image: Capable of self-righting itself.
8. Features: Equipment shall have a display feature capable of showing following information.
    a. Project name.
    b. Contractor's name.
    c. Date and time of inspection.
    d. Inside pipe diameter and type.
    e. Manhole identification (upstream manhole to downstream manhole).
    f. On-going footage counters accurate within 0.2 foot.
9. Operator narration capability: Follow NASSCO standards.
10. Recording of a single section of sewer onto two different media storage devices will not be acceptable. Each sewer segment shall be documented in a continuous video.

C. Lateral CCTV:
1. Shall conform to sewer main CCTV, except as modified herein and also be able to inspect laterals as small as 3-inches diameter for a distance of up to 70 feet from sewer mainline.
2. Launched from within mainline sewer: Unit shall be mounted on tread tractor that moves through sewers and positions inspection camera launcher opposite lateral line connection.
3. Launched from within cleanout: Unit shall be able to travel to mainline sewer.
4. Shall be of the self-leveling type.
5. Display shall include lateral address.Manhole CCTV.
6. Color Video Camera:
    a. Shall conform to sewer main CCTV, except as modified herein and also be specifically designed and constructed for this application.
    b. Capable of capturing both video and high resolution stills.
    c. High-resolution, pan and tilt or rotating head (manually performed or motor operated) with wide viewing angle lens and either automatic or remote focus and iris control.
    d. Lighting: Suitable for use with digital color inspection cameras and manhole and structure sizes as identified in contract.
    e. Operative in 100 percent humidity conditions.

D. Software:
1. Software for logging condition and feature coding shall conform to current NASSCO standards:
    a. Sewer Mains: Follow PACP
    b. Laterals: Follow LACP
    c. Manholes: Follow MACP
2. The software shall offer all coding compliant with PACP standards and validate each entry before it can be saved.

3. The footage reading from the camera equipment shall be automatically entered into the survey log and shall directly correspond to the noted defect location throughout the pipe graphic and tabular reports generated.
4. Software shall be compatible with Microsoft Windows operating system and shall be capable of importing and exporting data to and from the standard PACP database.
5. Recorded audio-video files shall be in a format viewable by commonly available software, either directly or via export. Any additional software required viewing files in their native format shall be provided at no additional cost with the deliverables.

PART 3 EXECUTION

3.1 GENERAL

A. The Contractor shall be responsible for securing the site and protection of the Owner's personnel and public. Any necessary traffic control shall be in accordance with the current Michigan Manual of Uniform Traffic Control Devices.

B. All inspection and recording of sewer features and condition shall be in accordance with NASSCO standards.

C. Unless otherwise noted, a sewer line shall be cleaned as specified in these Contract Documents prior to insertion of the television camera.

D. Maintain sewer isolation by temporary plugging or bypass pumping, as required by the Contract Documents. Contractor shall conduct operations to prevent backups and sewer overflows, and coordinate all activities with Owner. Should bypass pumping be required, the Contractor shall have personnel witnessing the pumping continuously during operations to assure that the capacity of bypass pumping equipment is sufficient.

E. For sewers impacted by wet weather, including storm sewers, combined sewers and sewers with significant inflow and/or infiltration, work shall be coordinated with weather forecasts. No work shall be scheduled within 24 hours before or after an anticipated precipitation event.

F. The Contractor shall notify affected residents/businesses one day prior to starting cleaning and sewer inspection with a "Resident Notification Letter" informing the residents/businesses of the Contractor's activities and to provide contact information for the Contractor and Owner. The Contractor shall submit the letter for Owner review and approval prior to notification.

G. The Owner shall have the authority to designate areas for which coverage may be added or omitted.

3.2 INSPECTION PREPARATION

A. The Contractor shall be responsible for having the necessary camera skids, floats, and rafts available to allow for inspection in a manner acceptable to the Owner under live flow conditions. The following general criteria shall be followed:

1. No inspections shall be performed where flow depths exceed 50% of pipe diameter without prior approval of the Owner.
2. The maximum flow depth for remote inspection work is 33% of the pipe diameter. The Contractor may be required to perform inspections during off-peak hours (night inspections) if specifically requested by the Owner to achieve this maximum flow standard.
3. No maximum flow depth has been established for manual (walk-through) inspections since depths in excess of one-third pipe will probably make such inspection methods unsafe.
4. Pipes 60 inches in diameter and larger, and having flow depths of less than 20% of the pipe diameter, shall be manually inspected unless the Contractor provides the owner with reasons for deeming manual inspections to be impractical or unsafe.

3.3 INSPECTION METHOD FOR SEWER MAIN LINES

A. All recording of the piping system shall be a continuous record from structure to structure. The camera shall be positioned at the center of the sewer pipe. All inspection shall be completed during times of dry weather flow, and the camera shall record in the same direction as the flow. Inspection against the flow especially during high flow conditions must be approved by the Owner.

B. The rate of speed shall be adjusted to produce a clear, concise record of the piping system and shall not exceed 30 feet per minute for conventional CCTV cameras. Travel shall stop for minimum of 10 seconds to record lateral connections, mainline connections, defects, features, and other observations. Advanced Digital Video Survey (DVS) inspection camera systems with high digital image recording resolution and lighting characteristics will be allowed to record at faster rates subject to Owner review and approval of images.

C. The camera pan/tilt and zoom-in/zoom-out rates shall be controlled sufficient such that during playback all angles or magnifications may be viewed clearly. Lighting shall be sufficient to ensure true color and minimal glare/reflective distortions.

D. Manual winches, power winches, TV cable, and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions shall be used to move the camera through the sewer line.

E. If there is interference in the sewer line that will not allow the CCTV equipment to pass, then it shall be backed out of the line and an attempt shall be made to inspect the line from the manhole at the other end. If the entire length of the sewer line cannot be televised because of two or more obstructions, then the Owner shall be notified to determine how to proceed.

3.4 INSPECTION METHOD FOR LARGER DIAMETER SEWER MAIN LINES ("WALKABLE")

A. Manual inspections will be required in lines where conditions will allow the Contractor's inspection crew to safely walk through the sewer, and shall conform to the requirements for sewer main lines except as otherwise modified herein.

B. Manual pipe inspections (walk-through inspections) shall be conducted in such a manner as to transmit the video signal to an above-ground viewing room to permit the Owner to watch the inspection work live on a color monitor in the viewing facility.

C. Direct voice communication between the Owner, the in-pipe inspection personnel, and the recording technician in the above-ground unit shall be maintained at all times during the manual inspection work. Video recording equipment shall also be located above ground in the inspection truck and accurate, continuous footage readings shall be superimposed on the video recording of permanent record.

D. The Contractor shall conform to all regulations and requirements for confined space entry, and shall prepare and submit a health and safety plan to the Owner prior to initiation of any work.

E. The Contractor shall provide for coordination of flow control.

3.5 INSPECTION METHOD FOR LATERALS

A. Follow sewer main line procedure above, modified as follows:
   1. Verify accessible cleanout exists near limits of inspection prior to performing internal inspection. Notify Owner if no cleanout is available.
   2. Isolate section inspected by bypassing flow or turning off property water. Prevent backflow into laterals.

3.6 INSPECTION METHOD FOR MANHOLES

A. Obtain still photos of exterior of manhole and surrounding area, and include manhole identification in photo. This may be done by placement of a whiteboard in the photo or post-editing of image to include the data.

B. Interior manhole inspection
   1. Start at manhole rim in line with largest diameter outgoing pipe.
   2. Rotate camera clockwise until 360 degree panorama is complete. Provide still photos of noted defects and features following MACP. Lower camera two to three vertical feet and repeat procedure until bench invert is reached.
   3. Record vertical location of all defects and features and position in manhole. All photos and report logs shall include the manhole structure ID and location within manhole.

3.7 CLEANUP

A. The Contractor shall be responsible to clean up any debris or spills during each day of work and restore conditions to existing as soon as possible.

B. The Contractor shall be responsible for the disposal of personal protection equipment used during the work.

3.8 SAMPLE REPORT

Tabular Report Owner Asset ID#

Setup XXX	**Surveyor** XXX	**Certificate #** XXX		**System Owner** OWNER NAME
Drainage		**Survey Customer** OWNER NAME		
P/O #		**Date** YYYY/MM/DD **Time** 17:10	**Street** STREET NAME	
City LOCATION		**Further location details** CAMERA IS HEADING SOUTH		
Up ID #XXX		**Rim to Invert**	**Grade to invert**	**Rim to grade** Ft
Down ID #XXX		**Rim to Invert**	**Grade to invert**	**Rim to grade** Ft
Use Sanitary/Combined/Storm	**Direction** Down	**Flow control** Not Controlled		**Media No** XXX
Shape Circular	**Height** 18 **Width**	**ins** **Preclean** J		**Date Cleaned** YYYY/MM/DD
Material Vitrified Clay Pipe	**Joint length**	**Total length**		**Length Surveyed** 187.8
Lining	**Year laid**	**Year rehabilitated**		**Weather** Dry
Purpose Capital Improvement Program Assessment	**Cat**			**Pressure**
Additional info			Structural O & M Constructional Miscellaneous Hydraulic	
Location Light Highway				
Project PROJECT NAME			**Work Order**	
Northing	**Easting**		**Elevation**	
Coordinate System			**GPS Accuracy**	

Count	Video	CD	Code		Grade	In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									C-039
0.0			MWL	Water Level				0					
20.6			CM	Crack Multiple	3					02	04		
20.6			TB	Tap Break-in		6.000				02			WEST
33.2			TB	Tap Break-in		6.000				02			WEST
87.6		S01	RFJ	Roots Fine Joint	1				J	05	07		
92.6			TF	Tap Factory		6.000				09			EAST
94.3			FC	Fracture Circumferential	2					05	07		
117.0			TB	Tap Break-in		6.000				03			WEST
128.7		F01	RFJ	Roots Fine Joint	1				J	05	07		
187.8			AMH	Manhole									C-040
187.8			FH	End of Survey									

187.8 Ft **Total Length Surveyed**

Scores				
	Structural:	**Pipe Rating** 5	**Pipe Ratings Index** 2.5	**Quick Rating** 3121
	O&M:	**Pipe Rating** 8	**Pipe Ratings Index** 1.6	**Quick Rating** 1500
	Overall:	**Pipe Rating** 13	**Pipe Ratings Index** 1.9	**Quick Rating** 3121

Contractor Logo/Name, Address and Contact Information

SECTION 610
FLOWABLE FILL

PART 1. GENERAL

1.01 SUMMARY

A. This work shall include the furnishing of all labor, materials and construction equipment necessary for the providing flowable fill for the abandonment of sewers and/or structures of the size and character shown on the drawings and specified herein.

B. Where called for on the drawings certain areas of the excavation and areas of existing structures and sewers to be abandoned shall be backfilled with flowable fill.

1.02 REFERENCES

A. Performance and material requirements shall meet specific Reference Standards as referred to hereinafter under individual items.

B. Unless otherwise specified, all materials shall also conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

1.03 SUBMITTALS

A. The method used to measure fly ash and cement shall be submitted for acceptance. The contractor's proposed method shall be one that compliments the type of mixing plant being used and provides assurance that the percentage of cement is being satisfactorily controlled. Cement content shall be based on the dry weight of the fly ash in the mix. The batched weight of fly ash shall be corrected for its moisture content. Water shall be measured, although its control will be a function of consistency (slump and workability) of the mix.

PART 2. MATERIALS

2.01 FLOWABLE FILL

A. Flowable fill shall consist of a mixture of fly ash, cement and water such as "C-Fill" as manufactured by Clawson Concrete or "M-Crete" as manufactured by Michigan Foundation or equal.

B. Cement shall be Portland Cement conforming to A.S.T.M. C 150 Type I. Air entrained cement, pozzolan, and other types of cement shall not be used. Fly ash shall conform to the requirements of A.S.T.M. C618, Class F. Water shall be potable.

C. The stabilized fly ash mixture shall contain 4 to 5% Portland cement based on the dry weight of the fly ash. Occasional batches of mixture with a cement content of 3 to 4% will be allowed provided immediate action is taken to restore the cement content to the specified range. Mixtures containing less than 3% shall not be used. The mixture shall have a slump of 10 to 12 inches at the point of placement. The mix temperature shall not be lower than 50°. The mixture shall have a compressive strength of 100 psi minimum at twenty-eight (28) days.

PART 3. EXECUTION

3.01 PREPARATION

A. Prior to abandoning sewers with flowable fill, the Contractor shall install all necessary bulkheads in sewers and/or structures and ensure that they will not leak when flowable fill is placed.

3.02 MIXING

A. The flowable fill may be mixed by a pug mill, central concrete mixer, turbine mixer or other acceptable equipment or method. Provisions shall be made to maintain the mix temperatures and slump as stated.

3.03 PLACEMENT

A. The material shall be placed by end or side dumping, tremie, pump, conveyors, or other suitable method. Lines and grades shall be as shown on the design drawings. Stabilized fly ash shall be protected from freezing temperatures for the initial twenty-four (24) hours after placement. Protection may consist of earth cover, straw, or a sacrificial layer of the stabilized fly ash mix.

3.04 MEASUREMENT & PAYMENT

A. Unless it is identified in the Proposal as a separate pay item, installation of flowable fill is incidental to the other work of this project.

END OF SECTION

SECTION 710
PORTLAND CEMENT CONCRETE PAVEMENT CONSTRUCTION

PART 1. GENERAL

1.01 SUMMARY

A. This section includes the provision of all labor, materials, equipment, supervision and incidentals required for the furnishing and placement of ready mixed Portland Cement Concrete (PCC) pavement and curbs and gutter.

1.02 REFERENCES

A. Unless otherwise specified, all materials shall conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

1.03 SUBMITTALS

A. Contractor shall submit proposed mix design for all PCC pavements to be supplied on this project.

B. Contractor shall submit certifications for all aggregate and classified granular fill materials to be supplied on this project.

PART 2. MATERIALS

2.01 CONCRETE

A. Provide materials in accordance with subsection 602.02 of the Standard Specifications for Construction and the contract. Concrete Grade 3500HP requires optimized aggregate gradation and 25 to 40 percent replacement of the Portland cement in the concrete mixture with a supplementary cementitious material (slag cement, fly ash). Do not use other concrete Grades or Types in lieu of Grade 3500HP. Prepare the optimized aggregate gradation and perform process control according to the procedure for Optimized Aggregate Gradation included in the contract.

B. The concrete mixture supplied on this project shall conform to the requirements of the Concrete Durability Requirements section for resistance to alkali-silica reactivity (ASR) and for air entraining requirements.

C. Concrete provided on this project shall be Ready Mixed Concrete; central mixed or transit mixed concrete is permitted. The source of ready mixed concrete shall be approved by the Engineer.

D. Admixtures - Admixtures shall be used only when specified or authorized by the Engineer.

E. The City reserves the right to make air and slump tests on any or all loads of concrete supplied to the job prior to placing the concrete in the grade. Concrete shall not be placed in the grade until such tests have been completed and approved by the Engineer. Concrete not meeting the specifications will be rejected. Re-tempering of rejected concrete for re-use on the job will not be allowed.

F. Water shall not be added to the concrete at any time without specific permission by the Engineer.

2.02 AGGREGATE BASE COURSE

A. Unless otherwise specified on the drawings, or in the specifications, the aggregate base course to support the PCC pavement shall be MDOT 21AA crushed limestone compacted to 95% of the maximum modified proctor density.

B.

PART 3. CONSTRUCTION

3.01 EXAMINATION

A. Contractor shall verify the existing conditions prior to submitting a bid on the project.

3.02 EQUIPMENT

A. All equipment used in the construction of the work shall be inspected and shall meet approval of the Engineer prior to start of construction. All equipment, tools and machinery shall be maintained in a satisfactory working condition.

3.03 MAINTAINING TRAFFIC

A. The Contractor shall furnish, erect and maintain road construction barricades in accordance with current Michigan Manual of Uniform Traffic Control Devices.

B. The Contractor shall at all times allow access to abutting property along the job. It is not intended that this shall permit access to the property during the actual processes of construction, however, the Contractor shall provide for temporary crossings and crossovers over the work partially completed prior to final completion of the construction. No roadway surface shall be opened to traffic prior to authorization by the Engineer.

3.04 CONCRETE PAVEMENT REMOVAL

A. Caution shall be exercised during pavement breaking operations, and the use of a crane and ball type pavement breaker will not be permitted. Equipment used for this work shall be such as will not cause damage to adjacent buildings and underground utilities.

B. Concrete pavement removal will be paid for at the contract unit price per square yard, which shall include the removal of adjacent curb or curb and gutter, and any asphaltic concrete surfacing. No additional payment will be made for pavement removal with reinforcing.

3.05 CUTTING TREE ROOTS

A. Tree roots larger than two (2) inches in diameter shall not be cut beyond a point three (3) inches in back of the proposed curb line, and no tree roots shall be cut beyond a point twelve (12) inches in back of the proposed curb line. The above limits may be exceeded only with specific authorization by the City Parks and Recreation Department.

3.06 EXCAVATION

A. All earth and other material shall be excavated for the full depth and width of the cross section, as given on the plans.

B. Trees and stumps to be removed will be removed by the City at no cost to the Contractor. Removing and disposing of shrubs, brush and trees or stumps less than four (4) inches in diameter shall be considered as incidental to the work of excavation.

C. The Contractor shall rough grade as close as possible to finished subgrade, leaving a minimum to be removed in fine grading.

D. Excavation material shall be disposed of by the Contractor in the following order of preference:

1. Along the site of the work to fill requirements of the work.
2. At the Contractor's own dump sites.

E. Excavation will be determined by the average end area method of all material included above the base between backs of curbs, or edges of pavement where no curb is constructed. Excavation and fill required from curb to property line will be classed as grading. Concrete pavement removal and other items included in separate pay items will be deducted from excavation. Asphalt removal will be considered part of excavation.

F. Excavation for manholes, catch basins, inlets and gate wells shall be included in the price bid for these items.

G. All excavated material stored along the line of work between curb and sidewalk on improved lawns shall not be left longer than forty-eight (48) hours. Said lawns or otherwise improved parkway shall be left in a neat and clean state within the specified forty-eight (48) hours.

H. Excavated material removed in fine grading or any other operations shall be removed from any completed pavement slab, before any slab is opened for traffic whatsoever, including Contractor's equipment.

3.07 PREPARATION OF SUBGRADE

A. The subgrade shall be smoothed, trimmed and compacted in the required line, grade and cross section to receive the pavement. The roadbed shall be compacted to at least ninety-five (95) percent of the maximum unit weight. The subgrade thus formed shall be maintained in a smooth and compacted condition until pavement has been placed. Should the subgrade between the forms become rutted or disturbed in any manner, the subgrade shall be reshaped and compacted as specified herein.

B. Compaction shall be accomplished by self-propelled steel wheeled or a pneumatic-tired roller weighing not less than five (5) tons or a self-propelled vibratory compactor of adequate size to compact the subgrade to the required density.

C. No concrete shall be placed on the subgrade until the subgrade has been approved by the Engineer.

D. The cost for preparation of subgrade will be paid for under the items "Earth Excavation" or "Station Grading", as noted in the Proposal, and not as a separate pay item.

E. The roadbed and adjacent grade shall be maintained in such condition that the work will be well drained at all times. If it is necessary, in the prosecution of the work, to interrupt existing surface drainage, sewers or underdrainage, then temporary drainage facilities shall be provided until the permanent drainage work is completed. The construction of all temporary drainage facilities shall be considered as incidental to the construction of the project.

F. The Contractor shall perform a proof roll on the subgrade, to be witnessed by the Engineer to determine if there are areas that are unstable or need additional compaction. Proof rolling of subgrade shall be performed with a pneumatic-tired rolling equipment, developing a load of thirty (30) to fifty (50) tons. In a systematic manner acceptable to the Engineer, the equipment shall perform a minimum of three (3) passes over the designated areas(s). When proof rolling of the subgrade shows an area to be unstable as determined by the Engineer, the unstable material shall be removed and replaced to the limits designated by the Engineer.

3.08 INSTALLING ROADWAY BASE

A. Aggregate base shall be placed on streets, roadways, shoulders and driveways at the thickness shown on the drawings in not more than six (6) layers. Such surface shall be compacted to 95% density and shall meet lines and grades established on the drawings or meeting existing pavements.

B. The aggregate base shall not be placed if the subgrade is saturated.

3.09 ADJUSTING CASTINGS

A. Existing manholes, water valve gate wells, catch basins and other like surface structures shall be raised, lowered, shifted in alignment or reconstructed if necessary to fit the proposed line or grade. This work will be paid for at the unit price as bid in the proposal. If there are no work items listed in the proposal for this work, it shall be considered incidental to the other work of the project.

3.10 FORMS

A. Forms shall be of metal, of any approved section which will insure their rigidity under the impact, thrust and weight of the heaviest machine carried on them.

B. Forms shall have a minimum length of ten (10) feet, and shall have a depth not less than the edge thickness of the work prescribed. Forms with a height of eight (8) inches or more shall have a base width of at least eight (8) inches. Other forms shall have a minimum base width of six (6) inches. The forms shall be straight, free from distortion and shall show no vertical variation greater than one-eighth (1/8) of an inch in ten (10) foot lengths from the true plane surface on the top of the forms when tested with a ten (10) foot straight edge.

C. Flexible forms and hand finishing will be required on all pavement where the edge of pavement radius is less than two hundred (200) feet.

D. When tree roots may not be cut enough to allow room to use forms as specified above, wood forms (planks) may be used.

E. The method of connections between form sections shall be such that a locked joint is formed free from vertical movement in excess of one-eighth (1/8) of an inch and horizontal movement in excess of one-quarter (1/4) on an inch under the impact, thrust and weight of the heaviest machine carried on the forms. Each form shall be fully pinned with pins of an adequate length, and the soil under the forms shall be thoroughly compacted by use of a mechanical form tamper or vibrator.

F. All forms shall be thoroughly cleaned and oiled before concrete is placed against them.

G. Forms shall be set at least three hundred (300) feet in advance of the paver, in order to allow ample time for inspection and checking prior to the placing of concrete.

3.11 POURING CONCRETE

A. The roadway base and subgrade shall be in a moist condition, but not saturated, at the time concrete is placed.

B. Concrete shall be handled from the mixer to the place of deposit as rapidly as possible, and by methods which will prevent separation of the ingredients. The concrete shall be deposited directly into the forms as nearly as possible in its final position, so as to avoid re-handling. The piling up of concrete in the forms will not be permitted. No concrete which has partially hardened shall be deposited in the work.

C. Before beginning a run of concrete, all hardened concrete or foreign material shall be completely removed from the inner surface of the mixer and conveying equipment. Before depositing any concrete, all debris or other foreign matter shall be removed from the space to be occupied by the concrete; all reinforcing steel shall be secured in its proper locations and shall be inspected and approved by the Engineer.

D. Concrete shall be worked into all the recesses and corners of the forms and closely compacted around the reinforcing steel by means of thorough spading or an approved method of mechanical vibration.

E. When the air temperature falls to 40°F and is dropping, no concrete shall be placed. Pouring may be started when the temperature is 35°F in the shade, away from artificial heat, and is rising. All concrete during curing shall be protected in freezing weather by straw, hay or tarpaulins, for not less than seventy-two (72) hours after pouring.

F. No concrete shall be poured on a frozen, dry, saturated, or uncompacted subgrade.

3.12 PAVEMENT CONSTRUCTION

A. Concrete shall be placed only on subgrade prepared as previously specified. After the concrete has been deposited, it shall be struck off and consolidated by an approved finishing machine to such an elevation that when all finishing operations are completed, the surface will conform to the required finished grade. While striking off, a uniform ridge of concrete at least two (2) inches above the finished pavement grade shall be maintained ahead of the screed for its entire length. In consolidating, the finishing machine shall operate over each section of the pavement at least twice. Only sufficient mortar shall be worked to the surface to provide for a dense smooth finish. Excessive operation of the machine over a given area will not be permitted. Segregated particles of coarse aggregate, which may collect in front of the screed, shall be thoroughly mixed by hand with the mass of concrete already on the subgrade.

B. The concrete shall then be floated by means of a hand operated wood float not less than five (5) feet long.

C. As soon as the above operations are completed, all laitance, surplus water and inert materials shall be worked entirely off the pavement, and the surface made smooth by scraping or dragging with a rigid straightedge ten (10) feet in length.

D. The straightedge shall be placed at the center of the slab, with the blade parallel to the centerline, and pulled slowly and uniformly to the edge. This operation shall be repeated until the surface of the concrete is free from irregularities and makes contact at all points with the bottom of the straightedge. The straightedge shall then be moved forward one-half (1/2) its length and the operations repeated.

E. Depressions found in the surface shall be filled with fresh concrete and consolidated by floating with long handled float not less than five (5) feet in length. This float may also be used to smooth sections of the surface that may have become rough or torn by scraping the straightedge. Where a wood float does not give satisfactory surface, the Contractor will be required to provide metal or metal-shod long handled floats.

F. The surface will then be tested for smoothness with the straightedge. During this operation, the contact of the straightedge with the concrete shall be uniform over the entire length tested. At the time of testing, the surface shall be free from soft mortar or excessive water.

G. As soon as all excessive moisture has disappeared, and while it is still possible to produce a uniform surface of gritty texture, the pavement shall be finished by dragging a seamless strip of damp burlap or cotton fabric, not less than five (5) feet, nor more than six (6) feet in width, over the full width of the pavement. The fabric shall be renewed as often as necessary, to obtain the required texture.

H. Transverse connection joints shall be raised one-eighth (1/8) inch above the slab and finished with a notched wood float, not less than five (5) feet long, to eliminate high or low spots following

burlapping. The edge next to all expansion and construction joints shall be rounded with a finishing tool having a radius of one-quarter (1/4) inch.

I. The finishing of the surface and any joints shall be done from a bridge which does not touch the concrete at any point. The finished concrete shall be free from porous or open spots; no portion of the surface shall vary more than one-quarter (1/4) inch below a straightedge ten (10) feet in length laid on the pavement parallel to the centerline of the street.

J. Immediately following final finishing operations, the gutter line shall be water tested to assure uniform grade and complete drainage.

K. Should any unevenness appear in the surface of the pavement more than allowed by the Specifications, the Contractor shall at once take measures to eliminate such unevenness. After the concrete has obtained its initial set, no depressions shall be fixed by filling with concrete. In case the unevenness covers a large area of the slab, then the entire slab shall be removed and replaced with new concrete.

L. Any laitance deposited on pavement shall be immediately cleaned off.

M. The paving mixer will not be permitted on completed pavement and vehicles will be permitted only after the concrete has obtained a compressive strength of 3,500 psi. Any equipment wheels (including finishing machine) shall operate at least one (1) foot from the edge of the pavement.

3.13 JOINTS

A. Pre-molded bituminous expansion joints, construction joints, pre-molded bituminous contraction joints and sawed longitudinal contraction joints shall be placed in all pavements. All of the above mentioned joints shall be included in the price bid per square yard of pavement. Care must be exercised in joint construction, to insure vertical planes and complete separation at the joint.

B. Expansion Joints - Expansion joints shall be one (1) inch thick and of the pre-molded non-extruding bituminous fiber filler type. Joints shall be perpendicular to the subgrade and extend entirely through the concrete to between one-quarter (1/4) inch and one-half (1/2) inch below the top of the pavement. Expansion joint material shall bear uniformly on subgrade. After the concrete has set, and before the pavement has been opened to traffic, the joint shall be thoroughly cleaned and filled to the surface of the pavement with a hot poured rubber-asphalt type joint sealer.

C. Contraction Joints - Transverse contraction joints shall be made of pre-molded bituminous material one-quarter (1/4) inch thick. Contraction joints shall be edged at the curb. Contraction joints shall be properly aligned and shall butt against adjacent sections, with no space between ends.

D. All the longitudinal contraction joints shall be cut with a self-propelled concrete saw to a width and depth as shown on the plans, prior to any traffic being permitted on the new pavement. Sawed joints shall be cleaned by washing and blowing out with air immediately after sawing, and permitted to dry out at least twenty-four (24) hours prior to sealing. Joints shall be sealed with a hot poured rubber asphalt type joint sealing material applied with pressure equipment designed for that particular purpose.

E. If the Contractor elects to construct a full width pavement with a center longitudinal contraction joint, said joint shall be cut in more than twelve (12) hours, and no more than thirty (30) hours after the pouring and finishing of that part of the pavement.

F. Construction Joints - Longitudinal construction joints shall be placed as shown on plans. Construction joints shall also be placed at the ends of all pours, and at places where paving operations are stopped for a period of more than one-half (1/2) hour, except where such pours end at expansion joints. The second pour of concrete shall be edged with a longer lipped edging tool

than the first concrete pour. Joints shall be sealed with a hot poured rubber-asphalt type joint sealing material applied with pressure equipment designed for that particular purpose.

3.14 REMOVAL OF FORMS

A. Forms shall not be removed from freshly placed concrete until it has set for at least twelve (12) hours. They shall be carefully removed and in such a manner that no damage will be done to the edge of the pavement.

B. After the forms have been removed, the ends of all joints shall be cleaned and all honeycombed areas pointed.

C. The sides of the pavement shall be covered with curing material, or with at least twelve (12) inches of wetted earth, wetted straw or other suitable curing agent, except where honeycombed areas are to be pointed. Such areas shall be covered with wetted burlap until the pointing has been completed, at which time they shall be cured as specified above.

3.15 WHITE MEMBRANOUS CURING

A. After finishing operations have been complete, and immediately after the free water has left the surface, the surface of the pour shall be completely coated and sealed with a uniform layer of white membranous curing compound.

B. The compound shall be applied in continuous uniform film by means of mechanical pressure sprayer equipment at a rate of not less than two (2) gallons per twenty-five (25) square yards of surface. The equipment shall provide adequate stirring of the compound during application. The equipment for applying the compound must be approved by the Engineer before work is started.

C. If rain falls on the newly coated pavement before the film has dried sufficiently to resist damage, or if the film is damaged in any other way, the Contractor will be required to apply a new coat of material to the affected areas equal in curing value to that specified for the original coat.

3.16 CLEAN-UP AND GRADING

A. The Contractor shall perform final grading the area between the edge of the new pavement and the sidewalk, or the property line if there is no sidewalk. This area shall be graded to drain to the curb.

B. Wherever lawn areas are unnecessarily damaged by the Contractor, he will be required to repair any such areas at his own expense.

3.17 GRADING AT INTERSECTIONS

A. The Contractor shall grade from the completed paving at a grade not exceeding one (1) inch in twenty (20) inches at all places where the paving adjoins the roadways. At existing roadways, the re-graded area shall be finished with the same type of material as removed. At places where paving adjoins gravel or gravel treated roadways, the regarded area shall be finished with a road gravel at a minimum thickness of six (6) inches compacted. However, the Contractor will not be required to replace any oil treatment or seal coat.

B. There will be no additional payment for this work, and the cost of such should be included in the price bid for the concrete pavement.

3.18 CURB, CURB AND GUTTER

A. Joints in integral curb shall line up with, and be the same type as, those in the concrete pavement.

B. Joints in separate straight curb and in curb and gutter shall line up with, and be the same type as, those in adjacent concrete pavement, but spacing shall in no case exceed ten (10) feet. The Contractor shall use face forms on all straight curbs.

C. The face and top of the curb shall be finished smooth and true to line, grade and cross section. No more troweling than necessary shall be done. Prior to the initial set of the concrete, the curb face shall be lightly brushed to give a slightly roughened surface. The curb shall be dropped to within (1) inch of the gutter at integral curb shall proceed simultaneously and follow immediately the placing of pavement concrete.

D. Form excavations on the street side of curb and gutter sections shall be backfilled with road gravel and thoroughly compacted.

3.19 DRIVES

A. The Contractor shall remove and replace, or construct gravel, asphalt or concrete drives adjacent to new construction where designated by the Engineer.

B. Drives shall be constructed on a uniform slope from the gutter to the sidewalk, property line or place designated by the Engineer.

C. Gravel Drives - The existing material shall be excavated and road gravel placed at a minimum thickness of six (6) inches compacted.

D. Asphalt Drives - The existing material shall be excavated, and a minimum thickness of one and one half (1 1/2) inches of hot mix asphalt pavement placed on a road gravel base, with a minimum compacted thickness of five (5) inches. A neat joint shall be cut when meeting existing asphaltic concrete.

E. Concrete Drives - Concrete drives shall be six (6) inches thick, unless otherwise designated. A portion of an existing concrete drive to be removed shall be removed to an existing joint, or to a joint made with a concrete saw. Concrete drives shall be constructed in accordance with the procedures and specifications for Cement Concrete Pavement.

F. Payment will be made at the contract unit price per square yard, and for the designated thickness, which will be payment-in-full for excavating material other than concrete, and for constructing the drive complete.

G. Payment for concrete removal will be made at the contract unit price per square yard. Payment for saw cutting will be made at the contract unit price per lineal foot.

3.20 CONCRETE HEADERS

A. Concrete end headers shall be placed at the end of all pavements, including street returns not connecting with concrete or asphaltic concrete pavements.

B. Payment will be made at the contract unit price per square yard for the adjoining concrete pavement.

3.21 SAW CUTTING

A. Payment for saw cutting will be made at the contract unit price per lineal foot for saw cutting designated on the plans, or designated by the Engineer.

B. No additional payment will be made for saw cutting pavement joints or for saw cutting done for the Contractor's convenience.

3.22 DAMAGE BY CONSTRUCTION

A. Sidewalks, driveways, etc., unnecessarily damaged by construction operations shall be repaired or replaced as directed by the Engineer, at no additional cost to the City.

3.23 MEASUREMENT AND PAYMENT

A. Concrete pavement will be paid for at the contract unit price per square yard, which will be payment in full for furnishing all materials (not including pavement reinforcement), dowels, tie bars, joint dowel hook bolts, and all joint materials; laying, curing and protecting the concrete; constructing the pavement complete; grading at intersections; and maintaining traffic.

B. Payment for integral curb will be included in the contract unit price per square yard for concrete pavement with integral curb.

END OF SECTION

SECTION 711
PORTLAND CEMENT CONCRETE DURABILITY REQUIREMENTS

PART 1. GENERAL

1.03 SUMMARY

B. All Portland cement concrete mixtures supplied by the Contractor for this project shall have been tested under this specification and shown to be resistant to excessive expansion caused by alkali-silica reactivity (ASR) and provides adequate air entrainment for freeze thaw durability. The contractor shall construct the project with practices outlined in this specification.

C. All labor, materials, equipment, supervision and incidentals required for complying with the requirements of this section shall be incidental to the other work of this project.

1.04 REFERENCES

B. Unless otherwise specified, all materials shall conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

1.05 SUBMITTALS

B. Contractor shall submit proposed mix design for all Portland cement concrete mixtures to be supplied on this project.

C. Contractor shall submit certifications for all aggregate and classified granular fill materials to be supplied on this project.

PART 2. MATERIALS

2.03 PORTLAND CEMENT CONCRETE MIXTURE COMPONENTS

A.	Portland cement	ASTM C-150
B.	Fine Aggregate	ASTM C-33
C.	Coarse Aggregate	ASTM C-33
D.	Fly Ash, Class F	ASTM C-618
E.	Slag Cement, Grade 100, 120	ASTM C-689
F.	Silica Fume	ASTM C-1240
G.	Blended Cements	ASTMC-595
H.	Air Entraining Admixtures	ASTM C-260
I.	Chemical Admixtures	ASTM C-494
J.	White Membrane Cure	ASTM C-309 Type 2

PART 3. EXECUTION

3.03 ALKALI-SILICA REACTIVITY

A. Provide documentation to the Engineer that the concrete mixture does not present the potential for deleterious expansion caused by alkali-silica reactivity (ASR). Provide current ASR test results (valid for 2 years from completion of testing), for the fine aggregate that is proposed to be used in the concrete, from an independent testing laboratory proficient in ASR testing. The independent

testing laboratory must certify in writing, including a signed statement that all testing was conducted in accordance with the designated standard test procedures, described herein. Test results must conform to the specified criterion for one of the following standard test methods. ASR testing is not required for concrete pavement repairs and temporary concrete pavements. Use the Rounding Method described in ASTM E 29 when determining significant digits for reporting expansion test results.

1. Method 1. ASTM C 1293. Concrete Prism Test. If the expansion of concrete prisms is not greater than 0.040 percent (rounded to the nearest 0.001 percent) after 1 year, the fine aggregate is considered non-deleterious to ASR and may be used in the JMF.

2. Method 2. ASTM C 1567. Mortar Bar Test. If no previous test data are available for the fine aggregate that shows it is resistant to ASR using Method 1, above, replace 25 to 40 percent of the Portland cement in the concrete mixture with a supplementary cementitious material. A blended cement meeting the requirements of ASTM C 595 containing the above Portland cement and supplementary cementitious material proportions may also be used.

   Demonstrate the ability of the supplementary cementitious material to control the deleterious expansion caused by ASR by molding and testing mortar bars according to the standard test method described in ASTM C 1567 using the mix proportions and constituent sources for both the aggregates and the cementitious materials that will be used for the project. Make at least three test specimens for each cementitious materials-aggregate combination. If the average of three mortar bars for a given cementitious materials-aggregate combination produces an expansion less than 0.10 percent (rounded to the nearest 0.01 percent) at 14 days of immersion, the JMF associated with that combination will be considered non-deleterious to ASR. If the average expansion is 0.10 percent (rounded to the nearest 0.01 percent) or greater, the JMF associated with that combination will be considered not sufficient to control the deleterious expansion caused by ASR and the JMF will be rejected.

3. Method 3. ASTM C 1260. Mortar Bar Test. If the expansion of the mortarbars is less than 0.10 percent (rounded to the nearest 0.01 percent) at 14 days of immersion, the fine aggregate is considered non-deleterious to ASR and may beused in the concrete without the need for ASR mitigation. The Engineer will not approve the use of the JMF if the expansion exceeds the respective threshold limits for the respective ASTM test method used.

3.04 QUALITY CONTROL

A. The Owner and Contractor shall monitor the concrete that is delivered to the project site so as to insure that the approved mix design is being followed. The supplier shall include on the delivery ticket for each batch of concrete delivered to the job, the identification and proportions of each material batched. In lieu of individual batch tickets a detailed summary report showing the batch weights for each load may be submitted, at the end of each production shift, provided that individual ticket information is supplied upon request for inspection and testing personnel.

B. When concrete is placed during cold weather, below 40 degrees F, the use of accelerators, heated aggregates, silica fume and/or additional forms of cold weather protection will be required. Cold weather will not eliminate the requirement for furnishing and placing a concrete mix that is considered resistant to ASR attack.

C. Prior to cool weather placement, temperatures between 40 and 60 degrees F, the set time of the proposed mix shall be verified under anticipated field conditions. This information shall be used when scheduling pours and saw crews.

3.05 AIR ENTRAINMENT

A. Air entrainment shall be accomplished by addition of an approved air entraining agent. Air content as determined by ASTM C 231 or ASTM C 173, shall be determined on each day of production as early and as frequently as necessary until the air content is consistently acceptable. Acceptance testing for air content shall be on the grade ahead of the placement operation.

B. Paver placement:

1. The target air content of the in-place finished plastic concrete is 6.0%. During production acceptance will be at the point of acceptance sampled ahead of the paver, the target value referred to as the Acceptance Air Content (AAC). The AAC will be determined by the air loss actually experienced during transportation, consolidation and placement of the concrete. The difference between the as-produced concrete in front of the paver and the in-place air content will be considered the air loss. The AAC for the project will be 6.0% plus an amount equal to the air loss.

2. To establish the initial target AAC on the first day of paving, the first load shall be tested at the plant. For up to the first ten (10) loads, the AAC measured prior to placement shall be at least 8.0% and no more than 12.0%. After initial testing at the plant at least two sample sets shall be tested to determine the actual air loss during placement. A set shall consist of two (2) samples of concrete from the same batch, one taken at the point of discharge and the other from the in-place concrete behind the paver. The air loss from the two (2) sets shall be averaged and added to 6.0% to establish the AAC (rounded to the next higher 0.5%). The project acceptance air tests shall be taken prior to placement and shall be within the range of the AAC plus 2.0% or minus 1.0%.

3. After the AAC has been established it shall be verified and/or adjusted through daily checks of the air loss through the paver. The loss through the paver shall be checked twice daily. A Revised AAC shall be established if the average air loss from two (2) consecutive tests deviates by more than 0.5% from the current accepted air loss.

C. Hand placed concrete:

1. The air content for non-slip form paving shall be 7.0% plus 1.5% or minus 1.0% at point of placement.

3.06 CONSTRUCTION PROCESSES

A. Aggregate control

1. Gradation control – The Contractor shall provide a detailed stockpile management plan, describing their process control procedure for shipping, handling, and stockpiling of each aggregate including workforce training.

2. Moisture control – All aggregate materials must be conditioned to a moisture content of not less than saturated surface dry (SSD) prior to batching. A watering process using some type of sprinkler system is required on all coarse aggregate material stockpiles.

B. Mixing

1. Central mix plants

a. The total volume of the batch shall not exceed the designated size of the mixer or the rated capacity as shown on the manufacturer's rating plate.

b. Drum Mix Plants:

i. After all solid materials are assembled in the mixer drum; the mixing time shall be a minimum of sixty (60) seconds and a maximum of five (5) minutes. The mixing time may be decreased if the ASTM C-94 11.3.3 mixer efficiency tests show that the concrete mixing is satisfactory. The Engineer may require an increase in the minimum mix time if the mixer efficiency test determines that the concrete is not being mixed satisfactorily. The minimum mixing time shall start after the mixer is fully charged. Mixers shall be operated at the speed recommended by the manufacturer as mixing speed. The mixer shall be charged so that a uniform blend of materials reached the mixer throughout the charging cycle. Any additional slump water required shall be added to the mixing chamber by the end of the first 25% of the specified mixing time. Mixers shall not be used if the drum is not clean or if the mixing blades are damaged or badly worn.

c. Ribbon mixers:

i. After all solid materials are assembled in the mixer; the mixing time shall be a minimum of thirty (30) seconds and a maximum of 2.5 minutes. The mixing time may be decreased if the ASTM C-94 11.3.3 mixer efficiency tests show that the concrete mixing is satisfactory. The Engineer may require an increase in the minimum mix time if the mixer efficiency test determines that the concrete is not being mixed satisfactorily. The minimum mixing time shall be indicated by an accurate timing device which is automatically started when the mixer is fully charged. Mixers shall be operated at the speed recommended by the manufacturer as mixing speed. The mixer shall be charged so that a uniform blend of materials reached the mixer throughout the charging cycle. After any additional slump water is added to the mixing chamber the mixing shall continue for a minimum of ten (10) seconds. Mixers shall not be used if the mixer is not clean or if the mixing blades are damaged or badly worn.

2. Truck mixers

a. The capacities and mixing capabilities shall be as defined in ASTM C 94, and each unit shall have an attached plate containing the information described therein. The plate may be issued by the Truck Mixer Manufacturer. The mixer capacity shall not be exceeded, and the mixing speeds shall be within the designated limits. Truck mixers shall be equipped with a reliable reset revolution counter. If truck mixers are used for mixing while in transit, the revolution counter shall register the number of revolutions at mixing speed.

b. An authorized representative of the concrete producer shall certify that the interior of the mixer drum is clean and reasonably free of hardened concrete, that the fins or paddles are not broken or worn excessively, that the other parts are in proper working order, and that the unit has been checked by the representative within the previous thirty (30) calendar day period to substantiate this certification. The current, signed certification shall be with the unit at all times.

c. The required mixing shall be between seventy (70) and ninety (90) revolutions. The mixing shall be at the rate designated by the manufacturer and shall produce uniform, thoroughly mixed concrete.

d. The Engineer may inspect mixer units at any time to assure compliance with certification requirements, and removal of inspection ports may be required. Should the Engineer question the quality of mixing, the Engineer may check the slump

variation within the batch. Should the slump variation between two (2) samples taken, one (1) after approximately 20% discharge and one (1) after approximately 90% discharge of the batch, show a variation greater than 3/4 inch (20 mm) or 25% of the average of the two, whichever is greater, the Engineer may require the mixing to be increased, the batch size reduced, the charging procedure be modified or the unit removed from the work.

e. The practice of adding water on the site shall be discouraged. After the first round of trucks has been adjusted on the grade the amount of water added at the plant shall be adjusted and shall become the point of adjustment throughout the pour. All water additions on site shall be approved by the Engineer.

C. Curing

1. Apply liquid curing compound in a fine atomized spray to form a continuous, uniform film on the horizontal surface, vertical edges, curbs and back of curbs immediately after the surface moisture has disappeared, but no later than thirty (30) minutes after concrete placement. With approval of the Engineer, the timing of cure application may be adjusted due to varying weather conditions and concrete mix properties.
2. The cure system shall be on site and tested prior to concrete placement.
3. Apply a curing compound at a rate of application not less than two (2) gallons per twenty-five (25) square yard; keep the material thoroughly mixed per the manufactures recommendation and do not dilute the compound.
4. The finished product shall appear as a uniformly painted solid white surface. Areas exhibiting a blotchy or spotty appearance shall be recoated immediately.

END OF SECTION

SECTION 712
CONCRETE SIDEWALK CONSTRUCTION

PART 1. GENERAL

1.01 SUMMARY

A. This section includes the provision of all labor, materials, equipment, supervision and incidentals required for the construction of concrete sidewalks and ramps, and associated work, including detectable warning plates for sidewalk ramps as required for compliance with the American with Disabilities Act.

B. Related Sections: The following sections contain requirements that relate to this Section:

1. Concrete Durability Requirements

1.02 REFERENCES

A. Unless otherwise specified, all materials shall conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

B. All sidewalk and ramp shall meet ADA requirements for slope, surface finish, width, and all other requirements.

1.03 SUBMITTALS

A. Contractor shall submit proposed mix design for all concrete to be supplied for sidewalk construction.

B. Contractor shall submit certifications for all aggregate and classified granular fill materials to be supplied on this project.

PART 2. MATERIALS

2.01 CONCRETE

A. The concrete mixture shall meet the requirements of MDOT Mixture 3500, with 3,500 PSI minimum compressive strength, and utilize 6AA coarse aggregate and Type 1A Portland Cement.

B. The concrete mixture supplied on this project shall conform to the requirements of the Concrete Durability Requirements section for resistance to alkali-silica reactivity (ASR).

C. Admixtures shall be used only when specified or authorized by the Engineer.

D. The City reserves the right to make air and slump tests on any or all loads of concrete supplied to the job prior to placing the concrete in the grade. Concrete shall not be placed on the grade until such tests have been completed and approved by the Engineer. Concrete not meeting the specifications will be rejected. Re-tempering of rejected concrete for re-use on the job will not be allowed.

E. Water shall not be added to the concrete at any time without specific permission by the Engineer.

2.02 TRUNCATED DOMES / DETECTABLE WARNING

A. Truncated Domes / Detectable Warning shall be manufactured of cast iron, and shall at a minimum have the following properties:

Slip Resistance (ASTM C-1028):	1.10 Dry / 1.06 Wet
Wear Resistance (ASTM C-501):	7333
Impact Resistance (ASTM D-1709)	>238 Newtons
Adhesion to Concrete (Bond Strength ASTM D-482)	>5000 lbs
Tensile Strength (ASTM A-48)	35,000 PSI

B. Truncated Domes / Detectable Warning shall be supplied with a natural finish. Black asphalt dip finish is acceptable as well, as long as all of the detectable warning plates at each intersection (all corners) that are constructed as a part of the work have the same finish.

C. Truncated Domes / Detectable Warning shall be supplied at each sidewalk ramp in accordance with ADAAG and/or MDOT requirements, whichever is more stringent.

D. Truncated Domes / Detectable Warning shall be at least two (2) feet deep along the direction of travel. The detectable warning plate width shall generally be five (5) feet, unless otherwise specified on the drawings or in the field by the Engineer. Radial plates may be used where called for on the drawings, or in the field by the Engineer.

E. Truncated Domes / Detectable Warning shall be manufactured by East Jordan Iron Works, or approved equal.

2.03 FORMS

A. Forms shall be of metal or wood, and of an approved section. Materials, other than metal or wood shall not be used for forms, unless specifically authorized by the Engineer.

B. Forms shall be straight, free from distortions, and shall show no vertical variation greater than one-eighth (1/8) of an inch in ten (10) foot lengths from the true plane surface on the top of the forms when tested with a ten (10) foot straight edge, and shall show no lateral variations greater than one-quarter (1/4) of an inch from the true plane surface on the vertical face of the form when tested with a ten (10) foot straight edge.

PART 3. CONSTRUCTION

3.01 EXAMINATION

A. Contractor shall verify the existing conditions prior to submitting a bid on the project.

3.02 PREPARATION

A. If removal and replacement of the existing sidewalk is specified in the work item, the Contractor shall remove the existing sidewalk to the extent shown on the plans, or as directed by the Engineer in the field.

B. During removals and construction, Contractor shall protect all adjacent sidewalks, pavement, curb and gutter, and drive approaches from damage. Any adjacent infrastructure that is damaged by the Contractor during construction shall be replaced by the Contractor at no additional cost to the City.

C. The subgrade shall be formed by trenching or filling to the required elevation for bottom of concrete, or to bottom of subbase, if a subbase is specified. All sod and vegetative matter shall be stripped from the subgrade.

D. The subgrade after grading shall be thoroughly tamped or otherwise compacted, to insure its stability. Any soft, spongy or otherwise unstable areas in the subgrade shall be removed and replaced with granular fill.

E. In cuts, the subgrade shall be made sufficiently wide to permit the proper placing of forms, and in fills, the subgrade shall be made at least one (1) foot wider on each side than the required width of sidewalk.

F. All fills shall be of granular material, and shall be placed in thoroughly compacted layers not to exceed six (6) inches in depth. Compaction shall be accomplished by the use of mechanical equipment or hand tamps with metal bases.

G. Existing sidewalks or paved areas under proposed sidewalks shall be removed, except where grade will allow at least two (2) inches of granular fill to be placed over them.

3.03 SIDEWALK THICKNESS

A. Unless otherwise noted on the drawings, sidewalks shall be at least four (4) inches thick, except at ramps and across driveways, where they shall be at least six (6) inches thick.

3.04 DISPOSAL OF WALK AND EXCAVATED MATERIALS

A. The old walk, after removal, and excavated materials shall be disposed of by the Contractor at his own expense. He shall provide his own dump. When directed by the Engineer, the Contractor shall leave removed sod in an area adjacent to the construction. The Contractor will not be held responsible for the sod after that time or responsible for the condition of the area under which the sod was placed.

3.05 PREPARATION OF SUBGRADE

A. The subgrade shall be formed by trenching or filling to the required elevation for bottom of concrete, or to bottom of subbase, if a subbase is specified. All sod and vegetative matter shall be stripped from the subgrade.

B. The subgrade after grading shall be thoroughly tamped or otherwise compacted, to insure its stability. Any soft, spongy or otherwise unstable areas in the subgrade shall be removed and replaced with granular fill.

C. In cuts, the subgrade shall be made sufficiently wide to permit the proper placing of forms, and in fills, the subgrade shall be made at least one (1) foot wider on each side than the required width of sidewalk.

D. All fills shall be of granular material, and shall be placed in thoroughly compacted layers not to exceed six (6) inches in depth. Compaction shall be accomplished by the use of mechanical equipment or hand tamps with metal bases.

E. Existing sidewalks or paved areas under proposed sidewalks shall be removed, except where grade will allow at least two (2) inches of granular fill to be placed over them.

3.06 PROTECTION OF TREES

A. Where a tree is less than twenty-four (24) inches from the existing walk, or at the Engineer's discretion, the Contractor may be required to curve the walk around the tree, maintaining the full width of the walk through the curve. The Contractor shall cut and remove all tree roots that are in the sidewalk grade. Merely shaving the roots in order to place the sidewalk at proper grade and thickness will not be acceptable. The cost of the work of cutting and removing the roots and curving the walk around the trees shall be included in the unit price bid. The City may elect to cut and remove certain tree roots with their own forces, but the Contractor shall submit his bid based on performing all of the necessary root cutting and removal.

3.07 BARRICADES AND LIGHTS

A. Barricades and lights shall be placed in accordance with the "Public Safety" section of the "General Requirements" section of these specifications. In addition, the following requirements shall be met.

B. Barricades used under this contract shall be "horses" or other barricades approved by the Engineer. Barricades made of rope, wood siding and other similar types will not normally be approved by the Engineer.

C. Barricades shall be placed where sidewalks under construction join sidewalks or driveways which are open for use.

D. Lights shall be placed at the beginning and end of construction in each block. Where such lights are more than five hundred (500) feet apart, intermediate lights shall be placed so that the distance between any light does not exceed five hundred (500) feet.

3.08 FORMS

A. Forms shall be of metal or wood, and of an approved section. Materials, other than metal or wood shall not be used for forms, unless specifically authorized by the Engineer.

B. Forms shall be straight, free from distortions, and shall show no vertical variation greater than one-eighth (1/8) of an inch in ten (10) foot lengths from the true plane surface on the top of the forms when tested with a ten (10) foot straight edge, and shall show no lateral variations greater than one-quarter (1/4) of an inch from the true plane surface on the vertical face of the form when tested with a ten (10) foot straight edge.

3.09 FORMING

A. Forms must be used for all edges of all sidewalk construction. Where proposed walk abuts existing concrete, and the edge of the existing concrete is true to line and grade, the existing concrete, with or without expansion paper, will be considered a form for the new sidewalk.

B. Forms shall be installed true to line and grade established by the Engineer. They shall be adequately staked and braced to remain on line and grade during the placement of concrete.

C. Walk shall pitch to the center of the street at the rate of one-quarter (1/4) inch per foot of width, unless otherwise provided. Forms shall be of the full depth specified for the walk.

D. Before placing concrete, forms shall be thoroughly cleaned and oiled.

3.10 PLACING AND FINISHING CONCRETE

A. Before beginning a run of concrete, all hardened concrete or foreign material shall be completely removed from the inner surface of the mixer and conveying equipment. Before depositing any concrete, all debris or other foreign matter shall be removed from the space to be occupied by the concrete.

B. The subgrade shall be thoroughly wetted and the concrete shall be deposited thereon to the proper depth. So called "two course" pouring will not be permitted. Concrete shall be handled from the mixer to the place of deposit as rapidly as possible and by methods which will prevent separation of the ingredients. The concrete shall be deposited directly into the forms as nearly as possible in its final position, so as to avoid re-handling. The piling up of concrete in the forms will not be permitted. No concrete which has partially hardened shall be deposited in the work.

C. Concrete shall be worked into all the recesses and corners of the forms by means of thorough spading of an approved method or mechanical vibration.

D. When the air temperature falls to 40°F and is dropping, no concrete shall be placed. Pouring may be started when the temperature is 35°F in the shade, away from artificial heat, and is rising. All concrete during curing shall be protected from freezing by straw, hay or tarpaulins, for not less than seventy-two (72) hours after pouring.

E. No concrete shall be poured on a frozen, dry or uncompacted subgrade.

F. The concrete shall be alternately tamped and struck off with a strike board until all voids are removed and the surface has the required grade and cross section. The strike board shall be long enough so it can always be in contact with both forms. The surface shall be floated with a wood or aluminum float, followed by a steel float, just enough to produce a smooth surface free from irregularities. All edges and joints shall be rounded to a radius of one-quarter (1/4) inch with an approved finishing tool. The surface shall then be brushed to slightly roughen the surface and remove the finishing tool marks.

G. The end of a run of concrete shall not remain unformed for more than one-half (1/2) hour, by which time a header form shall be placed. If a header is not placed, the concrete shall be removed back to the last transverse joint prior to continuing the pour. Headers, when used, shall not vary more than six (6) inches in location from the normal transverse joint location.

3.11 JOINTS

A. Joints shall be constructed true to line, with their faces perpendicular to the surface of the sidewalk, and shall not vary more than one-quarter (1/4) inch from their designated position. Transverse joints shall be constructed at right angles to the centerline of the sidewalk, and longitudinal joints shall be constructed parallel to the centerline, unless otherwise required.

B. When the sidewalk is constructed in partial width slabs, transverse joints in the succeeding slab shall be placed in line with like joints in the adjacent slab. In the case of widening existing sidewalks, transverse joints shall be placed in line with like joints in the existing sidewalk.

C. The concrete at the faces of all joints shall be thoroughly spaded and compacted to fill all voids, and the surface shall be finished smooth and true to grade.

D. Expansion Joints - Expansion joints shall be of the pre-moulded non-extruding bituminous fiber filler type.

E. In new sidewalk, one-half (1/2) inch thick expansion joints shall be placed at intervals of not more than fifty (50) feet. In repairing existing sidewalk, at least one and one-half (1 1/2) inch expansion joints shall be used in the repair, unless existing expansion joints are less than thirty (30) feet on either side of the repair.

F. One-half (1/2) inch thick expansion joints shall also be placed at junctions with sidewalks, drives, buildings and other rigid structures. Three-quarter (3/4) inch thick by five (5) inch expansion joints shall be placed at all curb junctions and also between sidewalk and abutting parallel curb or gutter.

G. Contraction Joints - Insofar as feasible, joints shall be spaced at intervals equal to the width of the walk and with maximum transverse and longitudinal intervals of ten (10) feet. Joints shall be produced by use of slab division forms extending the full width and one-half (1/2) the depth of the walk. The joints shall be of not less than one-eighth (1/8) inch, nor more than one-quarter (1/4) inch in width, and shall be finished smooth and true to line.

H. Slab division forms shall remain in the concrete a sufficient length of time to insure permanent separation of the concrete.

3.12 WHITE MEMBRANOUS CURING

A. After finishing operations have been completed, and immediately after the free water has left the surface, the surface of the sidewalk shall be completely coated and sealed with a uniform layer of white membranous curing compound.

B. The compound shall be applied in a continuous uniform film by means of mechanical pressure sprayer equipment at a rate of not less than one (1) gallon per two hundred (200) square feet of surface. The equipment shall provide adequate stirring of the compound during application. The equipment for applying the compound must be approved by the Engineer before work is started.

C. If the compound is too thick for satisfactory application during cold weather, the material may be warmed in a water bath at temperatures not over 100°F. Thinning with solvents will not be permitted.

D. If rain falls on the newly coated sidewalk before the film has dried sufficiently to resist damage, or if the film is damaged in any other way, the Contractor will be required to apply a new coat of material to the affected areas equal in curing value to that specified for the original coat.

3.13 SIDEWALK RAMPS

A. Sidewalk ramps shall be constructed in accordance with these Concrete Sidewalk Construction Specifications, and in accordance with MDOT Standard Detail R-28, latest edition.

B. Surface texture of ramps shall be that obtained by a coarse brooming, transverse to the slope of the ramps. The normal gutter line profile shall be maintained through the area of ramps.

C. There is no separate pay item for sidewalk ramps. The sidewalk portion of ramps will be paid for as concrete sidewalk construction. Work required at the curb for ramps will be paid for under a curb pay item, depending on the type of curb work performed.

D. Each ramp shall include a Truncated Domes / Detectable Warning installed at the back of the curb. The Truncated Domes / Detectable Warning shall generally be five (5) feet wide by two (2) feet deep. If that is not possible given the site constraints, then they shall be at least as wide as the existing adjacent sidewalk. Radial Truncated Domes / Detectable Warning plates may be required in some locations.

3.14 REMOVAL OF FORMS

A. Forms shall not be removed from freshly placed concrete until it has set for at least twelve (12) hours. They shall be carefully removed, and in such a manner that no damage will be done to the edge of the sidewalk.

3.15 PROTECTION OF EXISTING LAWNS

A. The Contractor shall use extreme care while replacing existing sidewalks or constructing new sidewalks in existing lawns not to damage the lawns. The Contractor shall remove a maximum of six (6) inches of sod beyond the edges of the sidewalk. He shall remove the sod after cutting it with a square nosed shovel on a parallel line to the sidewalk.

B. The Contractor shall protect existing lawns at all times during his work. Equipment or vehicles will not be permitted on established lawns. The Contractor will be held responsible for all damage to lawns more than six (6) inches away from sidewalk construction. Sod and other excavated materials shall not be placed on existing lawns. Any lawn area damaged as a result of the Contractor's operations may be repaired by the City at the Contractor's expense.

3.16 UNDERGROUND SPRINKLER SYSTEMS

A. Some of the houses in the sidewalk replacement area may have underground sprinkler systems for their lawns. The owners of these sprinkler systems have been notified that they are responsible for locating for the Contractor, all underground sprinkler equipment adjacent to any sidewalk that is to be replaced. The Contractor will be required to use caution when working around these known underground sprinkler systems, and shall repair any damage to sprinklers if, in the opinion of the Engineer, insufficient care was taken to prevent damage to the sprinkler system.

3.17 SERVICE WALKS

A. Where the grade of a new or replaced sidewalk does not meet the grade of a private service walk, the Contractor may be required to replace a portion of the service walk. The Contractor will be required to replace only that portion of the service walk that the Engineer determines is necessary to eliminate a hazard or drainage problem.

B. Payment for replacement of service walks will be made at the contract unit price for four (4) inch concrete sidewalk replacement.

3.18 CONSTRUCTION AT PAVED DRIVEWAYS

A. Sidewalk Replacement at Concrete Driveways

1. The existing sidewalk shall be removed without damaging the driveway. Expansion joints shall be replaced along each edge of the sidewalk, and the sidewalk shall be replaced using the expansion paper at the drive as forms.

B. Sidewalk Replacement at Asphalt Driveways

1. The existing sidewalk, and a maximum of four (4) inches of asphalt on each side of the sidewalk, shall be removed without damaging the rest of the drive. A neat joint shall be cut in the asphalt prior to removing the sidewalk. The sidewalk shall be formed across the driveway. Wood forms may be used in such locations. Upon completion of the sidewalk construction, the Contractor shall place road gravel in the form excavations. There will be no additional payment made for cutting the neat joints, removing asphalt and placing road gravel in the form excavations. The City shall then be responsible to have the remaining asphalt replaced by others.

2. Where an asphalt driveway is in good condition and at a suitable grade, the Engineer may direct that the sidewalk be removed and replaced without removing a portion of the driveway. In such case, the Contractor shall use caution to avoid damage to the asphalt. Also, the Contractor will not be required to set forms. The Contractor should avoid getting cement on the surface of any asphalt drive.

C. New Sidewalk at Concrete Driveways

1. The Contractor shall saw cut and remove that portion of the driveway necessary to be removed to construct the sidewalk, and necessary to be removed because of grade. The sidewalk shall be formed across the driveway, and following the removal of the forms, the remaining portion of the driveway removed shall be replaced.

D. New Sidewalk (asphalt drives)

1. The Contractor shall cut neat joints in the asphalt at locations determined by the Engineer. The Contractor shall remove the asphalt between the neat joints, shall form the sidewalk across the drive, and following the removal of the forms, shall fill the form excavations with road gravel. There will be no additional payment made for cutting the neat joints, removing the asphalt and placing road gravel in the form excavations.

3.19 CONSTRUCTION AT UNPAVED DRIVEWAYS

A. The Contractor shall backfill the form excavation across unpaved drives with the same type material as exists in the adjacent driveway.

3.20 FINAL GRADING

A. For new sidewalk construction, the Contractor shall grade to a uniform slope from the top of the walk to top of the curb, and from the walk to the property line. In the event there is no curb, grading shall be done for a distance of 10 (ten) feet towards the centerline of the street to the existing grade. If this provision should involve destroying or re-grading established lawns and parkways, the Contractor shall confer with the Engineer before starting such grading.

B. Grading and clean-up work shall be done as soon as possible following the completion of any section of sidewalk, and in no case shall more than two (2) consecutive days (excluding Sundays and holidays) elapse from the time any section of sidewalk is placed until the adjacent grading and clean-up is completed.

C. In establishing lawns, the Contractor shall place a minimum of two (2) inches of topsoil in all form excavations and on all re-graded areas. The topsoil shall be tamped and graded, and then seeded with grass seed. Clean excavated material may be used to fill under the required topsoil. Topsoil and seed used shall be of a high quality and approved by the Engineer. Topsoil shall be free of sticks, stones, clumps of clay, debris and similar materials.

D. In unimproved areas, clean excavated material may be used for grading.

3.21 PAYMENT

A. Payment will be made by unit price per square foot of walk constructed, and price bid shall include: placement and preparation of granular fill (4" or 6" of compacted class II sand base per plan details); forming, furnishing, placing and finishing of concrete (thickness as specified); placing of jointing materials; curing compound; removal of forms; and grading as specified.

B. There will be no additional payment for removing and replacing unstable subgrade.

C. No deductions in payment will be made for areas of sidewalk construction occupied by manhole castings, utility boxes, pole bases and similar objects, provided no one such object occupies more than ten (10) square feet of the new (or replaced) sidewalk. Where any one such object occupies more than ten (10) square feet of the new (or replaced) sidewalk, no payment will be made for sidewalk within that area.

END OF SECTION

SECTION 750
HOT MIX ASPHALT PAVEMENT CONSTRUCTION

PART 1. GENERAL

1.01 SUMMARY

A. This section includes the provision of all labor, materials, equipment, supervision and incidentals required for the furnishing and placement of plant mixed Hot Mix Asphalt (HMA) pavements.

1.02 REFERENCES

A. Unless otherwise specified, all materials shall conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

1.03 SUBMITTALS

A. Contractor shall submit proposed mix design for all hot mix asphalt to be supplied on this project.

B. Contractor shall submit certifications for all aggregate and classified granular fill materials to be supplied on this project.

PART 2. MATERIALS

2.01 HOT MIX ASPHALT PAVEMENTS

A. Hot-mix asphalt mixture designations shall be as specified on the drawings for wearing (surface) course, leveling course, and base course as applicable. All mix designations shall meet applicable minimum requirements per MDOT standard specifications for construction.

B. The hot mix asphalt pavements shall meet the requirements of the MDOT Special Provision for Marshall Hot Mix Asphalt Mixtures (12SP501(F)) for the mixes designated on the plans or elsewhere in the specifications, except as modified on the plans or in these specifications.

C. Binder from Recycled Asphalt Pavement (RAP) materials shall be limited to not more than 17 percent of the total mix binder content by weight. Final binder for all mixes shall meet specification requirements for Performance-Grade PG64-22.

D. Bond coat shall be SS-1h.

PART 3. CONSTRUCTION

3.01 EXAMINATION

A. Contractor shall verify the existing conditions prior to submitting a bid on the project.

3.02 ASPHALTIC - BITUMINOUS

A. For purposes of these specifications, the words, "asphaltic" and "bituminous", and comparable variations of such words, will be considered to be interchangeable.

3.03 MAINTAINING TRAFFIC

A. The Contractor shall furnish, erect and maintain road construction barricades in accordance with current Michigan Manual of Uniform Traffic Control Devices.

B. The Contractor shall at all times allow access to abutting property along the job. It is not intended that this shall permit access to the property during the actual processes of construction, however, the Contractor shall provide for temporary crossings and crossovers over the work partially

completed prior to final completion of the construction. No roadway surface shall be opened to traffic prior to authorization by the Engineer.

3.04 ADJUSTING CASTINGS

A. This work will consist of adjusting manhole, gate well and drainage structure castings to the elevation of the finished surface in accordance with the "Adjusting Drainage Structure Covers" section of the MDOT specifications.

B. In concrete pavements, the top of the concrete replaced around castings shall be held down two (2) inches below the elevation of the finished surface.

C. Prior to placing the top course of asphaltic concrete, the area around castings shall be filled with asphaltic concrete to the elevation of the leveling course.

D. Variable adjusting castings shall not be used unless specifically authorized by the Engineer.

E. The City may elect to replace some castings. In such cases, the Contractor shall deliver the old castings and pick up new castings at the City Department of Public Services (DPS) yard on Eton Road. That work will be considered to be incidental to Adjusting Castings.

3.05 PREPARATION OF EXISTING PAVEMENT FOR ASPHALT OVERLAY

A. Repairing Concrete Curb & Slab Replacement

1. Concrete for concrete curb and slab repairs shall meet the requirements for concrete for Portland Cement Concrete Pavement Construction.

2. Repairs to existing concrete pavements shall be made in accordance with MDOT Standard Drawing R-44, latest edition.

3. Curb repairs shall join existing curbs at existing joints, cracks (where authorized by the Engineer), or at saw cut joints where saw cutting is necessary. Unless otherwise provided for in the specifications, saw cutting shall be incidental to the other work on this project.

B. Removing Bituminous Surface For Joints

1. This work will consist of stripping joints in existing bituminous surfaces in accordance with the "Removing Bituminous Surface" section of the MDOT specifications.

C. Chipping Pavement Around Structures

1. At drainage structures not to be adjusted, the existing concrete or asphaltic pavement surface shall be cut back up to one and one-half (1 1/2) feet, as designated by the Engineer, around the casting to a depth of at least one (1) inch, completely around the structure.

D. Hand Patching

1. Hand patching shall be performed where called for in the plans and specifications, or where directed by the Engineer.

2. Areas where pavement surfaces are badly deteriorated or cracked into small sections will be repaired using this method.

3. Hand patching will include stripping, chipping or otherwise removing existing surface materials from deteriorated areas in bituminous or Portland cement concrete pavements, and replacing by hand or machine methods with bituminous material approved by the Engineer.

4. Joint repairs shall be done in conformance with Detail 7 and 8 on MDOT Standard Plan R-44, latest edition, except as modified by the project plans and specifications. This work will consist

of chipping joints in the existing concrete pavement surfaces in accordance with the "Chipping Concrete Pavement for Joints" section of the MDOT specifications.

5. Following the removal of the existing material, holes to be hand patched shall be thoroughly cleaned by blowing out all loose material with an air compressor or with a power blower.
6. Hand patching will not include wedging of low areas.
7. Except as provided herein, this work shall conform to the requirements of the "Hand Patching" section of the MDOT specifications.

E. Joint Clean Out

1. Excess filler in cracks or joints, which may cause bleeding or instability in the opinion of the Engineer, shall be removed to the elevation of the pavement surface. This work is considered to be incidental to the asphalt pavement installation on the project.

3.06 BOND COAT

A. The amount of bond coat applied to existing pavement surfaces shall be 0.15 gallon per square yard, or less if directed by the Engineer.

B. The amount of bond coat applied to new HMA surfaces shall be 0.10 gallon per square yard, or less if directed by the Engineer.

C. Bond coats shall not be diluted, unless authorized by the Engineer.

D. Proper precautions shall be taken to prevent smearing bond coat on adjacent pavement surfaces, curbs, walks, castings, lawns or shrubbery. The Contractor shall remove all such bond coat smeared on the above mentioned items.

E. There is no separate pay item for bond coat, as such work is considered to be incidental to asphaltic surfacing.

F. The Contractor shall furnish tickets or other satisfactory evidence showing the quantity of bond coat used in order to verify the application rate.

3.07 PLACING BITUMINOUS MIXTURE

A. At the end of each period of work on the wearing surface, joints shall be formed by laying and rolling against boards of the thickness of the wearing surface placed at right angles to the centerline across full width of pavement, or by such means as approved by the Engineer.

3.08 MEETING DRIVEWAYS OR OTHER SURFACES

A. Where new asphaltic concrete surfacing is higher than abutting paved driveways or other paved surfaces, the Contractor shall place asphaltic wearing course mixture over such driveways or other paved surfaces to provide a transition to meet the new surface elevation. Where the abutting paved surface drains towards the new surfacing, the surfacing mixture shall be extended for a distance sufficient to provide for drainage onto the new surface, as directed by the Engineer. The surfacing mixture may be feathered to zero thickness at the end of the surfacing.

B. The Contractor shall place bond coat over abutting areas to be surfaced.

C. There is no separate pay item for this work, and payment will be included under the pay item for the asphaltic mixtures used.

3.09 BASIS OF PAYMENT

A. Payment for the types of asphalt pavement and pavement repairs shall be as listed in the Proposal. Bid prices for work items listed in the Proposal shall include all other work necessary for a complete job.

END OF SECTION

SECTION 900
SUPPLEMENTAL SPECIFICATIONS

1.01 SCOPE

A. The Supplemental Specifications apply particularly to this Contract. If there are parts of these Specifications, which differ from other sections of these Specifications, the Supplemental Specifications shall control. The 2020 M.D.O.T. Standard Specifications for Construction shall apply for all work items within this contract, except as modified in this Contract Document.

B. The work covered by this Contract shall consist of those items listed in the proposal. The Contractor shall, for the amount of money earned, based on unit prices stated in the Contract Documents, furnish and provide all labor, tools, equipment and materials, and do all work required in excavating and laying new water main and sewer, removing and replacing existing pavement, and other work related to the project. All of the items of work are to be done in accordance with the plans and Contract Documents of which these Specifications are a part.

1.02 MATERIALS

A. All materials shall be new and of the grades specified, and shall be the best of their respective kinds for the uses intended. The terms "approved" and "or approved equal" mean that the Engineer must be consulted and approve the material before the material in question is purchased or installed in the work. The approval of any material by the Engineer does not mean the acceptance of the material actually furnished if it should be found defective or inadequate for the purpose intended.

B. Special brands or grades of material or devices specified or shown on the drawings are named for the purpose of establishing a standard of quality and character desired. Other materials of equality and adaptability for the purpose for which they are intended may be substituted, but shall have the approval of the Engineer as to the equality and adaptability before being incorporated in the work.

C. The Contractor shall order or arrange for materials well in advance of their expected use in the work, as far as practicable, in order to allow time for inspection, etc., and thus avoid unnecessary delays which may otherwise occur.

D. Unless otherwise specified, all materials shall conform to the latest edition of STANDARD SPECIFICATIONS FOR CONSTRUCTION, adopted by the Michigan Department of Transportation.

1.03 COMBINED SEWER, VARIOUS SIZES

A. All Combined Sewers shall be constructed of either Reinforced Concrete Pipe (RCP) or Polyvinyl Chloride (PVC) in the classes and sizes as indicated on the plans.

B. All combined sewers will require a permit from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The City has applied for a permit from the above agency for the replacement of the public combined sewer. The Contractor shall be obligated to have this permit approved and in-hand prior to beginning work on these items.

C. The sewer replacements for this project involves a single County drainage district. The City has submitted the project to the Oakland Co. Water Resources Commissioner's office (OCWRC) for permitting approval. Once approved, a permit inspection fee will be required to be paid to their office prior to starting construction. The permit fee is not currently known but is anticipated to be less than $2,500.00. The Contractor shall be responsible for payment of the actual fee, up to a cost of $2,500.00, incidental to the cost of installing these sewers. The terms stated within the forthcoming approval letter from OCWRC shall also apply to this Contract.

D. All proposed sewers and leads, six (6) inches and up, shall be bedded and backfilled in accordance with the standard pipe bedding detail as shown in the plans. The pipe bedding shall be crushed stone as required in section 600 of the specifications to a minimum of six (6) inches over the top of the pipe. Within the proposed road surface, backfill shall consist of compacted sand up to the proposed aggregate road base. All bedding, backfill and compaction shall be incidental to the cost of the new sewer installation.

E. Removal of existing sewers is specified on the plans and included in separate pay items. Depending on location, removal may be able to occur in conjunction with proposed sewer installations, or may require separate excavation(s). Removed sewer pipe shall be hauled offsite immediately upon excavation, or deposited in a watertight dumpster, in accordance with Oakland County Health Department regulations. Removed sewers may not be stockpiled within the right-of-way awaiting final removal.

F. Any small diameter pipes that are encountered during excavations for mainline combined sewers that are damaged and confirmed to be inactive shall be bulkheaded prior to backfilling. If these pipes are less than 8 inches or less in diameter, this work shall be considered incidental to the contract work for combined sewer installation and will not be paid for separately.

1.04 STORM SEWER, VARIOUS SIZES

A. All Storm Sewers shall be constructed of either Reinforced Concrete Pipe (RCP) or Polyvinyl Chloride (PVC) in the classes and sizes as indicated on the plans.

B. The contractor shall be responsible for installing gas traps, including sumps, in the first storm structure upstream from a combined sewer, or where specified on the plans. The method for installing gas traps is to install a PVC elbow one size below the pipe being installed, directed down into the sump.

C. All proposed sewers and leads, six (6) inches and up, shall be bedded and backfilled in accordance with the standard pipe bedding detail as shown in the plans. The pipe bedding shall be crushed stone as required in section 600 of the specifications to a minimum of six (6) inches over the top of the pipe. Within the proposed road surface, backfill shall consist of compacted sand up to the proposed aggregate road base. All bedding, backfill and compaction shall be incidental to the cost of the new sewer installation.

D. Removal of existing sewers is specified on the plans and included in separate pay items. Depending on location, removal may be able to occur in conjunction with proposed sewer installations, or may require separate excavation(s). Removed sewer pipe shall be hauled offsite immediately upon excavation, or deposited in a watertight dumpster, in accordance with Oakland County Health Department regulations. Removed sewers may not be stockpiled within the right-of-way awaiting final removal.

1.05 SEWER SERVICE – VARIOUS SIZES

A. For sewer service replacements, the Contractor will be responsible to locate each service lead as construction progresses and maintain all flow therefrom. For homes where information on the location of the sewer lateral does not exist, the Engineer or his designee shall assist in working to gain access to the house as needed, or reviewing sewer videotape records, to locate said sewer laterals.

B. When installing a new sewer service to an existing sewer, the existing sewer shall be exposed only as much as necessary to verify the stability of it in the area and the condition of the original tap, and connect to it as directed by the Engineer. If the existing sewer is in good condition, it shall be connected with a Fernco adaptor or approved equal, and paid for separately, as detailed below. If

the existing main line sewer is damaged and needs repair in the area of the connection, the Contractor and Engineer shall agree to a time and material payment method for repairs to the City sewer, to be charged to the Water and Sewer Allowance pay item. If a new tap is required at a new or existing sewer main, it will be paid for under SEWER SERVICE TAP pay item.

C. Assuming all underground work is completed early in the project, while the main pedestrian sidewalks are still in service; the Contractor shall backfill and provide a temporary walkable surface to accommodate pedestrian traffic in a safe manner until the City sidewalks are repaired. Installation of a temporary stable surface in the sidewalk or other pedestrian areas shall be included in the separate pay item for maintenance aggregate.

1.06 NEW MANHOLE, VARIOUS SIZES

A. All new manhole structures shall include an EJ 1040CGS, with "City of Birmingham Sewer" noted on it.

B. Adjusting the rim to the proposed elevation noted on the plans is incidental to the installation of a new structure.

C. Where drop connections are required, they shall be constructed in accordance with applicable requirements of the Oakland County Water Resource Commissioner.

1.07 NEW CATCH BASIN OR INLET, VARIOUS SIZES

A. All new catch basins or inlet structures shall include an EJ 5000Z4 DI / 5000M4 DI Hinged Assembly (in the curb line), unless otherwise noted on the plans. Underdrain shall be connected to all inlets and catch basins as shown on plan sheets. A separate pay item has been provided for this work.

B. Adjusting the rim to the proposed elevation noted on the plans is incidental to the installation of a new structure.

1.08 6" PERFORATED PIPE UNDERDRAIN (NO SOCK)

A. The Contractor shall prepare their base bid unit price for this work based on the assumption that edge drain shall be installed per plan, and connected to all new drainage inlets and catch basins located within pavement areas.

B. The unit price for this work shall include all labor, equipment and materials necessary for the complete installation of the underdrain, open-graded angular aggregate backfill and non-geotextile trench wrap as shown in the details on the plans. Connecting the edge drains to the appropriate structures shall be incidental to the unit price for the installation, when the connection is to a new catch basin or inlet. Taps to existing drainage structures shall be paid for separately as outlined below.

C. To limit weather exposure of subgrade soils, Underdrain installation must be performed in conjunction with installation of the proposed road aggregate base and any subgrade undercutting that will be performed in a given location It is required by the contractor to perform work for underdrain concurrently with installation of final 21AA Aggregate Base layer in a train like manner. The Contractor shall not leave any cut and prepared subgrade surface exposed overnight.

1.09 SEWER INVESTIGATION, LATERALS

A. The City conducted extensive internal sewer camera work within the project area to help prepare the plans for this project. Despite this effort, there will still be instances when it becomes necessary to confirm if an existing sewer service is active or inactive, and therefore if replacement of the service is warranted. The Contractor shall anticipate the City will assist in confirming status

with property owners as feasible during installation of the mainline sewers. The purpose of this pay item is to have the contractor provide labor, time, and equipment as needed to help determine the status, location, or material of any unknown sewer services. In particular, this pay item may be used to have the Contractor perform excavation near existing sewer mains (which shall be maintained or replaced in accordance with the drawings), where service connections are believed to exist, in order for the City to determine material of the existing service line and if replacement of said service line is warranted.

B. The bid price shall cover all labor and equipment costs required to perform supplemental excavations as directed by the engineer, assist in dye testing procedures, and for downtime where the contractor may be delayed in completing other project work due to investigative efforts associated with sewer service investigation.

1.10 SEWER SERVICE TAP, VARIOUS SIZES

A. This pay item shall be used for sewer services that require a tap to the new combined sewer main. This work shall be paid for as a SEWER SERVICE TAP. Sewer service taps to all new reinforced concrete pipe or PVC pipe shall be paid under this pay item. In order to avoid misaligned sewer connections, sewer pipe shall not be cored and prepped off-site prior to delivery to the project. All sewer taps in concrete pipe shall be cored and booted in the field once the proper location has been determined (taking the location of existing trees into consideration).

B. All taps to existing structures or sewers shall be core drilled. A flexible rubber boot and appropriate clamps shall be used at the joint. The tapping pipe outside of the structure or sewer will be supported by placing 2,500 PSI concrete fill under the pipe from springline to undisturbed earth. Width of concrete fill support shall be the tapping pipe outside diameter plus twelve (12) inch minimum. Payment for sewer taps shall be based on the unit price bid for sewer tap for the nominal inside diameter of tapping pipe.

1.11 SEWER SERVICE CONNECTION, VARIOUS SIZES

A. This pay item shall be used for sewer service connections to existing sewer pipe where the existing tap can be re-used. All sewer connections shall be made to the existing tap using a Fernco adaptor, or equal. Connections shall be made in the presence of the Engineer. If the Engineer determines that the existing sewer main is in poor condition at the tap requiring additional work, the Contractor shall be prepared to make a repair to the existing sewer while it is excavated, as directed. Such repairs shall be paid for separately under a time and material agreement, using the Water & Sewer Allowance pay item described in more detail below.

1.12 SEWER TAP, VARIOUS SIZES

A. Whenever the Contractor must core drill a new hole in an existing manhole or connect a new mainline sewer of different size or material that the existing pipe which shall be removed, it shall be paid for as a SEWER TAP. Connections into a new manhole or drainage structure that was planned for and shown on the plan sheets and represented on the sewer schedule are incidental to the cost of the manhole or drainage structure.

B. All taps to existing structures shall be core drilled. A flexible rubber boot and appropriate clamps shall be used at the joint. The tapping pipe outside of the structure or sewer will be supported by placing 2,500 PSI concrete fill under the pipe from springline to undisturbed earth. Width of concrete fill support shall be the tapping pipe outside diameter plus twelve (12) inch minimum. Payment for sewer taps shall be based on the unit price bid for various diameters and shall be based on the nominal inside diameter of tapping pipe.

1.13 INSTALL CONCRETE SADDLE AT UTILITY CROSSING

A. This pay item includes all labor, equipment, and materials as required to install a concrete saddle between utilities where specified in the utility crossing schedules on the utility plan sheets, in accordance with the plan detail. The concrete saddle is required in specific locations where less than 18 inches of clearance is achievable between existing and/or proposed utilities.

1.14 RECONSTRUCT MANHOLE (IF & WHERE NEEDED)

A. Prior to starting work, the City shall inspect all existing manholes, catch basins, inlets, and gate wells to determine their condition, and recommend needed repairs. Reconstruction will be paid for by the vertical foot, and will vary from minor repairs to the chimney to extensive mortar joint and brick repairs throughout. Final cover adjustments to meet the final pavement grade shall be included in the cost for reconstruction, and shall not be paid for separately under "Adjusting Structure Cover".

B. All structure reconstructs shall be paid according to the pay item RECONSTRUCT MANHOLE (IF & WHERE NEEDED) regardless of the diameter of the structure being reconstructed.

1.15 REMOVE AND REPLACE STRUCTURE COVER

A. As a part of the work of this pay item, the Contractor shall furnish and install the specified manhole covers or inlet covers, along with any adjusting rings necessary to bring the structures to grade. There are also several manholes, catch basins, inlets, and gate well frames and covers that are noted to remain in service. The Engineer and Contractor shall inspect each casting to verify its suitability to continued service. Those castings that, in the opinion of the Engineer, should be replaced shall be removed and replaced under this pay item, with the weight of the new casting being used to determine the value. Any existing frames and castings removed shall be delivered to the City of Birmingham Department of Public Service yard at 851 S. Eton Road, or disposed of by the Contractor as directed by the Engineer at no additional cost to the Owner.

1.16 REMOVE EXISTING MANHOLES & DRAINAGE STRUCTURES

A. The Contractor shall remove and dispose of the entire structure, including any base sections, if present, remove the frame and casting and deliver to the City of Birmingham Department of Public Services yard at 851 S. Eton Road (if directed by the Engineer), and backfill the excavation with compacted sand. All portions of the structure removed that are not wanted by the City of Birmingham shall become the property of the Contractor and shall be disposed of properly at no additional cost to the Owner.

1.17 ABANDON EXISTING SEWERS, VARIOUS SIZES (INCLUDING ALL BULKHEADS)

A. Sections of existing sewers shall be abandoned as shown on the plans and called for in the proposal. This pay item shall include pipe bulkheads as needed, and installing flowable fill in the pipe. The Contractor shall submit to the Engineer the mix design to be used for the flowable fill. ALL bulkheads required to complete the abandonment of the specified sewers shall be included in the cost of this work.

1.18 REMOVE EXISTING SEWERS, VARIOUS SIZES

A. The Contractor shall excavate, remove, and dispose of the entire sewer pipe, and backfill the excavation with compacted sand.

B. Depending on location, removal may be able to occur in conjunction with proposed sewer installations, or may require separate excavation(s). Removed sewer pipe shall be hauled offsite immediately upon excavation, or deposited in a watertight dumpster, in accordance with Oakland

County Health Department regulations. Removed sewers may not be stockpiled within the right-of-way awaiting final removal.

1.19 BULKHEAD STRUCTURE, VARIOUS SIZES

A. The pay items for various sizes are included in this contract and intended to provide a water-tight repair at existing drainage structures as identified in the drawings, where a pipe is being proposed to be remove from the structure and the structure will be maintained.

1.20 BULKHEAD PIPE, LARGER THAN 8"

A. The pay item is to provide water-tight bulkheads for any pipes larger than 8 inches in diameter that are encountered during excavations for mainline combined sewers that are damaged and confirmed to be inactive. Bulkheads shall be performed prior to backfilling. Bulkheads for any pipes that are 8 inches or less in diameter shall be considered incidental to the contract work for combined sewer installation, and will not be paid for separately.

B. In the event that the City elects to abandon a section of existing sewer in place using flowable fill, any associated bulkheads required at existing pipe openings to contain the flowable fill shall be considered incidental to the cost for the sewer abandonment.

1.21 CCTV SEWER ACCEPTANCE INSPECTION

A. Contractor shall provide a video inspection record of all sewer mains and service leads installed for the project in accordance with the written specification section 605. The vide inspection shall occur after sewer trenches have been backfilled and compacted to final elevation.

1.22 REMOVE HYDRANT

A. The Contractor shall remove existing hydrants at the locations specified. Cost of this work shall include necessary water main shut-downs and associated coordination with the City to provide business/resident notifications. The Contractor shall be encouraged to conduct this work when an adjacent water-main shut-down is perform for other work, or when an adjacent Hydra-Stop is in operation, to allow this work to be completed expeditiously and safely.

1.23 REMOVE EXISTING GATE VALVE WELL

A. The gate valves shall be abandoned in place. Both ends of the pipe shall be plugged and blocked, as appropriate. The Contractor shall bulkhead any other openings in the structure, remove and dispose of the upper three (3) feet of the structure (remove cone section, if present), remove the frame and casting and deliver to the City of Birmingham Department of Public Services yard at 851 S. Eton Road (if directed by the Engineer), and backfill the structure with compacted sand. All portions of the structure removed that are not wanted by the City of Birmingham shall become the property of the Contractor, and shall be disposed of properly at no additional cost to the Owner.

1.24 FIRE HYDRANT ASSEMBLY, COMPLETE

A. Payment for this item shall be made at the unit price bid per each. Payment shall include all materials, equipment and labor necessary to furnish and install complete hydrant assembly.

B. New hydrants shall be a new EJIW 5-BR with a six (6) inches mechanical joint inlet, two (2) pumper nozzles, plug drain and block bolts. The hydrant shall open **LEFT**. The hydrant shall be painted yellow by the manufacturer prior to delivery.

C. On both new hydrants and relocated hydrants, the gate valve and box shall not be paid separately but shall be included in the Hydrant pay item. The type of valve and box to be used is given in the Section 500 Water Main Construction of these Specifications.

1.25 DUCTILE IRON CL 52 WATER MAIN W/ POLYWRAP, TRENCH A, VARIOUS SIZES

A. All new water mains installed on this job shall include polywrap as a part of the unit price per lineal foot bid as noted in the water main specification section.

1.26 NEW WATER MAIN CONNECTIONS TO EXISTING WATER MAIN (VARIOUS SIZES)

A. The Contractor shall notify the City at least forty-eight (48) hours before any scheduled water main shut down to make the proposed water main connections. The Contractor may also be required to assist in notifying the properties that will be affected by the shutdown. The Contactor shall complete all required testing on the new water main prior to making the connections to the existing water system.

B. Oversized fittings may be required for making connections to older existing water mains. Use of oversized fittings on water main connections is incidental to the bid price for water main connections.

1.27 NEW WATER SERVICE, VARIOUS SIZES, TRENCH A

A. For the short segments of water service extension needed on existing 1" or larger copper water services, the Contractor shall install Type K copper pipe. Installation of a new stop-box at the property line at these services shall be paid for under a separate pay item.

B. Water services that are being connected to a main that is now closer to the house than the original main shall not be paid for any footage of new pipe. The work required for these service connections shall be covered entirely in the cost per connection, each.

C. Assuming all underground work is completed early in the project, while the main pedestrian sidewalks are still in service, the Contractor shall backfill and provide a temporary walkable surface to accommodate pedestrian traffic in a safe manner until the City sidewalks are removed in their entirety. Installation of a temporary stable surface in the sidewalk or other pedestrian areas shall be included in the separate pay item for maintenance aggregate.

D. Where existing trees make installation of the new water service challenging, the Contractor shall move the new water service as needed to reduce damage to the tree, as directed by the Engineer, at no extra cost, other than the additional footage of pipe installed as measured.

1.28 WATER SERVICE CONNECTION, VARIOUS SIZES

A. This pay item is to connect replacement or new water services to a new or existing water main. Where the new main crosses an existing service, the Contractor will not be paid for any footage of new service pipe to connect the existing service to the new main. When a service needs to be extended from the location of the old main to the new main, the Contractor will be paid for the installation of NEW WATER SERVICE, TRENCH A in the appropriate size(s) for the length required.

1.29 INSTALL CURB STOP AND BOX

A. All water services that are replaced in their entirety shall have a new curb stop and box at the point designated by the Engineer. Said boxes shall generally be installed on or near the right-of-way (R.O.W.) line and behind the sidewalk. Curb Stop and Boxes shall be installed for such services when they are 2" diameter or less.

B. Bid pricing shall include all labor, equipment, and materials to furnish and install the curb stop and box to the correct finished grade elevation.

1.30 HYDRA-STOP, INSTA-VALVE 250, VARIOUS SIZES

A. It is possible that some of the valves will not function as well as they should. When directed to do so by the Engineer, a Hydra-Stop insta-valve system shall be available to install a temporary line stop with permanent valve to stop the flow of water from one (1) or more of the adjacent water mains, thereby allowing a water main connection with a minimum of time lost. Time lost due to unexpected delays on a water main shutdown shall be compensated for (when said delay is outside of the control of the Contractor) when approved when itemized and submitted to the Engineer, under the "Water and Sewer Allowance" pay item.

B. It shall be noted that the Contractor shall operate and test all necessary valves needed to shut down various portions of the existing water system to implement planned connections. The Contractor shall be prepared to provide the Hydra-Stop Insta-Valves only if an inappropriately large shutdown area will be required to implement the connection work.

C. The costs for hydra-stop insta-valve pay items shall be bid on per "each" basis, and each shall include necessary full-depth pavement removal, earth excavation, operation time, backfill, and pavement replacement (in kind). The cost shall also include a permanent valve box structure to be installed in conjunction with the valve in accordance with City specifications.

1.31 HYDRA-STOP, LINE STOP, VARIOUS SIZES

A. It is possible that some of the valves will not function as well as they should. When directed to do so by the Engineer, a Hydra-Stop system shall be available to temporarily stop the flow of water from one (1) or more of the adjacent water mains, thereby allowing a water main connection with a minimum of time lost. Time lost due to unexpected delays on a water main shutdown shall be compensated for (when said delay is outside of the control of the Contractor) when approved when itemized and submitted to the Engineer, under the "Water and Sewer Allowance" pay item.

B. It shall be noted that the Contractor shall operate and test all necessary valves needed to shut down various portions of the existing water system to implement planned connections. The Contractor shall be prepared to provide the Hydra-Stops only if an inappropriately large shutdown area will be required to implement the connection work.

C. The costs for hydra-stop pay items shall be bid on per "each" basis, and each shall include necessary full-depth pavement removal, earth excavation, operation time, backfill, and pavement replacement (in kind). Additional payment will not be made for overnight fees or other associated fees that may be required to keep the line stop in operation for the duration of the required work is performed while the stop is in place.

1.32 ABANDON WATER MAINS, ENTIRE PROJECT

A. After acceptance of the new water main segments, the Contractor shall begin to abandon the old water main. The water main shall be abandoned as follows:

   A. At the designated locations, cut the water main.

   B. Install a water tight cap and plug to each end of the cut water main.

B. Abandonment of existing gate valve boxes and gate valve wells shall be included as a part of this pay item. Where directed by the Engineer, the gate valves shall be removed and transported to the Department of Public Services yard (851 S. Eton Rd.) for future City use. Both ends of the pipe shall be plugged and blocked. Any leftover materials not wanted by the City shall become the property of the Contractor, who shall properly dispose of them at no additional expense.

C. Abandonment of gate valve wells, where required, shall conform to the following procedure: The Contractor shall bulkhead any other openings in the structure, remove and dispose of the upper three (3) feet of the structure (remove cone section, if present), remove the frame and casting and deliver to the City of Birmingham Department of Public Services yard at 851 S. Eton Road (if directed by the Engineer), and backfill the structure with compacted sand. All portions of the structure removed that are not wanted by the City of Birmingham shall become the property of the Contractor, and shall be disposed of properly at no additional cost to the Owner.

D. Removal or portions of existing water main may be required to accommodate other proposed utility installations, which are typically shown on the plans, but may also be encountered at unknown locations during construction. In both known and unknown cases, the existing water main shall be removed as an incidental cost to this pay item where required. Caps shall be placed at ends of existing pipe to remain to accommodate the abandonment work of other water mains.

E. The Contactor shall be responsible for phasing all utility installations and developing means and methods to allow for the existing water main to remain in service until the proposed replacement water main is installed, tested, and in service for all locations within the project limits.

1.33 EARTH EXCAVATION

A. This work shall be done in accordance with the requirements of Section 205 of the Michigan Department of Transportation 2020 Standard Specifications for Construction, except as herein described:

   A. The work of Earth Excavation shall consist of constructing earth grades by excavating soil or rock and placing embankment as necessary to develop the cross section and grade specified in the plans. The work shall include the salvaging and stockpiling of selected materials; disposing of surplus or unsuitable material; furnishing, placing and compacting of embankment materials; trimming of the earth grade and maintaining the work in a finished condition until acceptance by the Engineer.

   B. Any of the existing material that is excavated and deemed suitable, as determined by the Engineer, may be used for the road embankment material. The Contractor shall be responsible for the proper disposal of any existing material that is excavated and deemed unsuitable by the Engineer.

B. Earth Excavation shall include the following items:

   A. Stripping of vegetation and topsoil within the grading limits.

   B. Clearing of brush and the removal of trees less than four (4) inches in diameter (when approved by the Engineer).

   C. Excavation for roadway, curb, sidewalk, drive approaches and driveways.

   D. Backfilling behind the curb and adjacent to sidewalks, drive approaches and driveways with Engineer approved material.

   E. Grading from the back of curb to sidewalk, right of way line or grading limits to the required depth in order to receive all topsoil and sod surfaces.

   F. Proof-rolling subgrade in accordance with the final design.

C. The estimated quantity for earth excavation is based on "in-place" yards and does not account for trenching of underground utilities or subgrade underdrain.

D. The Contractor shall be responsible for determining his own volume of earth excavation required to construct the proposed roadway to the grade specified in the construction plans. No additional compensation will be made for any variation between the estimated amount stated above and the final amount of earth excavation required to construct the roadway.

1.34 SUBGRADE UNDERCUTTING, 21AA LIMESTONE

A. Once the subbase is exposed, it shall be proof rolled as a part of the preparation for new pavement. Proof rolling shall be done with a pneumatic tired roller capable of being loaded with ballast. The roller shall be operated in a systematic manner and uniform speed over the exposed subgrade soils so that all areas of the exposed surface are tested. Maximum vehicle speed during proof rolling shall not exceed five (5) MPH. Proof rolling is incidental to the other work of this project and shall not be paid for separately.

B. Those areas that require additional excavation shall be verified by the Engineer prior to proceeding with additional excavation into the subbase. The additional excavation shall be paid for under the pay item, "Subgrade Undercutting, 21AA Limestone". All work of this nature shall be done in the presence of the Engineer. The areas excavated below the subbase grade shall be backfilled with 21AA Limestone, as a part of the cost of the unit price for "Subgrade Undercutting, 21AA Limestone."

C. Procedures for undercutting shall be in accordance with MDOT Standard Specifications for construction. Bid prices shall be based on an "in-place" measure, with compaction of all backfill materials meeting a minimum of 95% of dry density.

1.35 SUBGRADE UNDERCUTTING, 1" X 3" LIMESTONE

A. Once the subbase is exposed, it shall be proof rolled as a part of the preparation for new pavement. Proof rolling shall be done with a pneumatic tired roller capable of being loaded with ballast. The roller shall be operated in a systematic manner and uniform speed over the exposed subgrade soils so that all areas of the exposed surface are tested. Maximum vehicle speed during proof rolling shall not exceed five (5) MPH. Proof rolling is incidental to the other work of this project and shall not be paid for separately.

B. Those areas that require additional excavation shall be verified by the Engineer prior to proceeding with additional excavation into the subbase. The additional excavation shall be paid for under the pay item, "Subgrade Undercutting, 1"x3" Limestone." All work of this nature shall be done in the presence of the Engineer. The areas excavated below the subbase grade shall be backfilled with 1"x3" Limestone, as a part of the cost of the unit price for "Subgrade Undercutting, 1"x3" Limestone."

C. Procedures for undercutting shall be in accordance with MDOT Standard Specifications for construction. Bid prices shall be based on an "in-place" measure, with compaction of all backfill materials meeting a minimum of 95% of dry density.

1.36 SUBGRADE GEOGRID FABRIC, TENSAR TRIAX TX130S

A. The intent of this pay item is to provide additional pavement subgrade stabilization in conjunction with subgrade undercutting pay items, where directed by the Engineer.

B. Bid price shall include all labor, equipment, and material to furnish and install the geogrid fabric per manufacturer requirements.

1.37 REMOVE AND SALVAGE BRICK PAVERS

A. There are certain property owners within the construction zone that have installed brick pavers or other special hardscapes within the right of way that conflict with the proposed construction. The property owners shall be contacted by the City to verify if they wish to maintain ownership of the materials. If they do, the Contractor shall carefully remove and stack the pavers at a mutually agreeable location on the owner's property, within the front yard. Replacement of the pavers, if desired by the property owner, will be their responsibility after completion of this project. Measurement and payment for this item shall be per square foot of paver area removed and salvaged.

B. The Contractor shall work carefully to minimize the need to utilize this pay item, and to ensure that there is no damage to the brick paver materials. Brick paver walks shall only be removed and salvaged under this pay item where it is directly necessary to carry out the construction work. In general, the Contractor shall only remove brick paver service walks to three (3) feet behind the proposed curb to allow for road construction, unless otherwise directed by the Engineer. The Contractor shall backfill the remaining gap between the curb or sidewalk with gravel to allow the driveway or walkway to be used again until the adjacent owner can have these areas repaired at their expense. Backfilling these areas shall be included in the cost of this work.

C. While generally salvaged brick paver materials shall be stacked on private property to become the adjacent owner's responsibility, the exception shall be at those locations where the replacement of the City sidewalk has required the disruption of a paver walk or driveway on the private side of the sidewalk. In those cases, the Contractor shall be required to backfill and reset the pavers to match the previous conditions to the greatest extent possible, as a part of this pay item.

1.38 REMOVING CONCRETE DRIVE APPROACH

A. Concrete drive approaches shall only be removed as shown on the plans or as directed by the Engineer in the field. There may be some locations where a drive approach will be removed to either an existing joint line, or to a sawcut joint where specified by the Engineer. Any driveway approaches, or portions thereof, that are noted to remain on the plans that are damaged in the execution of the work on this project shall be removed and replaced at no expense to the City or the property owner.

B. The Contractor shall notify the City at least seven (7) days ahead of when they plan to remove any drive approaches so that the City can notify the property owners. The Contractor shall also work with the Engineer to contact property owners and tenants the day that the concrete will be removed to ensure that they will not be stuck in their driveways. During the period when the drive approaches are being removed and replaced, it is imperative that the Contractor maintain the sidewalks along both sides of the street in a safe, passable condition to ensure that the pedestrians have access. The Contractor shall minimize the amount of time between driveway removal and driveway replacement.

C. The unit price for removing concrete drive approaches shall include all costs for the complete removal and disposal of the concrete sections, including any sawcutting required. If a drive approach is a concrete drive approach with an asphalt overlay, it shall be paid for as a concrete drive approach and the unit price for removal shall include the removal of both the asphalt overlay and the concrete drive approach.

1.39 REMOVING ASPHALT DRIVE APPROACH

A. Bituminous drive approaches shall only be removed as shown on the plans or as directed by the Engineer in the field. There may be some locations where a drive approach will be removed to

either an existing joint line, or to a sawcut joint where specified by the Engineer. Any driveways, or portions thereof, that are noted to remain on the plans that are damaged in the execution of the work on this project shall be removed and replaced at no expense to the City or the property owner. All sawcutting required to produce a clean edge shall be included in the cost of this pay item, and shall not be paid for separately.

B. The Contractor shall notify the City at least seven (7) days ahead of when they plan to remove any drive approaches so that the City can notify the residents. The Contractor shall also work with the Engineer to contact homeowners the day that the asphalt will be removed to ensure that they will not be trapped in their driveways. During the period when the drive approaches are being removed and replaced, it is imperative that the Contractor maintain the sidewalks along both sides of the street in a safe, passable condition to ensure that the residents have access. The Contractor shall minimize the amount of time between driveway removal and driveway replacement.

C. The unit price for removing asphalt drive approaches shall include all costs for the complete removal and disposal of the proposed sections, including any sawcutting required.

1.40 REMOVING CONCRETE SIDEWALK & RAMP (SAWCUTTING INCLUDED)

A. Sections of City sidewalk will be removed and replaced as a part of the project. The sidewalks shall remain in place as long as possible to allow pedestrian access down the street. This provision is to provide a solid walking path for the residents that need to access their homes on foot as a result of the work.

B. The unit price for removing concrete sidewalks and ramps shall include all costs for the complete removal and disposal of the concrete sections, including any sawcutting required.

1.41 REMOVING PAVEMENT FULL DEPTH (CURB & GUTTER INCLUDED)

A. This pay item shall apply to the full depth removal of the existing asphalt, concrete, and composite pavements and curb and gutter within Brandon Street (Station P.O.B. to P.O.E.); Arlington Road for length of the project limits (Station 0+77 to 31+17.); and within Shirley Drive for the length of the project limits to Station 10+26 on North Shirley Drive. Note that removal work within the Maple Road intersection for Arlington Road and Shirley Drive is covered under a separate lump sum pay item. Removal of driveway approaches and sidewalks behind the road curb are covered under separate pay items. Refer to plan sheets for removal limits and the geotechnical investigation report (Appendix A) for the details regarding existing pavements.

B. In all areas, the payment for this item includes full-depth pavement removal to the existing base below the pavement as required to complete the work.

C. The Contractor is encouraged to use care when considering methods of pavement destruction and removals.

D. After main line pavement removal, and during the underground work, the Contractor shall be expected to maintain traffic to all adjacent driveways. Removal of the pavements in the various pay items shall be timed in such a way that makes this maintenance of traffic as simple and effective as possible.

1.42 AGGREGATE BASE, MDOT 21AA LIMESTONE, 8"

A. This pay item shall include all earth excavation and base compaction required to provide a stable surface to install the eight (8) inch stone base, using 21AA limestone, required, as detailed in the proposed pavement cross sections. Installation of the aggregate base shall be paid for by the square yard.

B. Aggregate base placement shall extend a minimum of 12 inches beyond the proposed back of curb for full-depth pavement replacement.

C. To limit weather exposure of subgrade soils, 21AA Aggregate Base installation must be performed in conjunction with installation of proposed underdrains and any subgrade undercutting that will be performed in a given location It is required by the contractor to perform work for the final 21AA Aggregate Base layer concurrently with installation of underdrains in a train like manner. The Contractor shall not leave any cut and prepared subgrade surface exposed overnight.

1.43 REPLACE MAPLE ROAD COMPOSITE PAVEMENT (PER DETAIL)

A. This pay item includes all necessary removal and replacement of the roadway pavement within Maple Road at both the Arlington Road and Shirley Drive intersections, as required to complete the proposed water main connections in the Maple Road R.O.W. The City requires that traffic impacts to Maple Road be minimized as much as possible. Therefore, this pay item allows for the pavement replacement to be performed separately from other paving work on the project.

B. All work will be performed under a single lane and center left-turn lane closure for east-bound traffic on Maple Road (see traffic detour plan and plan details for traffic control requirements). Actual limits associated with this pay item will be determined by the contractor based on trenching requirements for the utility installation (limits shown on plans are approximate).

C. Work includes all sawcutting, full-depth pavement removal as needed to perform sewer work, and replacement of complete pavement section (including aggregate base) in-kind after sewer work is completed (see plan detail for anticipated pavement replacement cross-section). Work also includes providing necessary minimum cure time associated with concrete base and epoxy-anchoring of lane ties & dowels to existing concrete base and proposed adjacent curb and gutter as required.

D. A maximum allowable lane closure duration of 2 work weeks (up to 12 working days) will be permitted upon the start of removal operations to the re-opening to traffic, at each intersection if performed separately. If both connections are completed during the same closure, the City will allow a total lane closure duration of 3 work weeks (up to 18 work days).

E. The contractor is responsible for leaving the area south of each intersection in a condition that will be conducive to completing mainline paving work on both Arlington and Shirley which will likely occur later in the project. This includes installing the curb and gutter and sidewalk ramp at plan grade elevations, and also providing a clean working limit to install the proposed asphalt pavement while protecting completed work.

1.44 CONCRETE PAVEMENT, NONREINFORCED, INCL. INTEGRAL 6" CURB

A. This work consists of constructing a jointed Portland cement concrete pavement in accordance with Section 602 of the MDOT 2020 Standard Specifications for Construction.

B. A form riding paving machine or slip-form paving machine which meets the requirements of Section 602.03A of the MDOT 2020 Standard Specifications for Construction shall be utilized to construct the mainline concrete pavement on this Project. A roller screed, power screed, truss screed, etc., will NOT be considered as equivalent to a form riding or slip-form paving machine. A list of the proposed paving equipment shall be provided to the Engineer at the Pre-Construction Meeting. The requirement to use a paving machine can be relieved in areas such as on Brookwood where the curve does not allow the use of the machine. In areas where existing trees do not allow the use of a paver, the Contractor may use other methods to be reviewed and approved by the Engineer. No machine shall be used that would require more removal of roots at the base of trees as compared to installing a form and paving by hand.

C. There will be no separate measurement and payment for providing the specified equipment. The cost shall be considered incidental to Concrete Pavement pay item.

D. This pay item shall include all concrete pavement with integral curb and gutter, measured by the square yard, where designated on the plan. Sawcutting and sealing of the joints shall be included in the cost per square foot. Hook bolts shall be provided at 40" O.C. when butting up against existing concrete pavement. No separate payment will be provided for this preparatory work.

E. The concrete pavement provided under this pay item, along with all other concrete pay items, shall comply with Section 711 for durability and resistance to alkali-silica reactivity. The Contractor shall be responsible to close the area off entirely as needed to ensure that the new pavement is not driven on by any vehicles for a minimum of seven (7) days.

F. The Contractor shall plan to pour the integral curb and gutter section as a part of the mainline concrete pour. Separate pours for the concrete curb and gutter section shall not be approved.

G. The Contractor may be allowed to perform 'full' width paving, provided it can be demonstrated that it can be done in a timely manner, and also without causing unwarranted damage to the base of adjacent trees.

H. All sawcutting and joint sealing, as detailed in Section 710 of these Specifications, shall be incidental to this pay item.

I. The Contractor shall execute the paving portion of the Contract such that removing excess base materials, installation of new limestone base, and installation of new main line concrete with cure time shall be kept to no more than the time specified in Section 301 of these Contract Documents.

1.45 MDOT "M" APPROACH GUTTER DETAIL

A. This pay item includes all labor equipment and materials needed to form a gutter pan through the Bennaville intersection meeting MDOT type M approach geometry. Depending on the chosen paving alternate, the gutter will either be formed integral to the 7" thick concrete pavement with integral curb, or poured separately of the 4" HMA pavement. If poured separately, the minimum dimensions for the overall curb/gutter section shall match curb and gutter being installed elsewhere (7 inches thick and 18 inches wide).

1.46 CONCRETE DRIVE APPROACH, 6"

A. All concrete drive approaches on this project shall be a minimum of six (6) inches thick unless otherwise called for on the plans.

B. The concrete drive approaches shall be poured as soon as possible following the roadway curing to allow residents to access their driveways.

C. The Contractor is encouraged to review Section 301 of these Contract Documents relative to the required timing for the placement of the driveway approaches.

D. Typical residential driveway approaches shall be constructed using the City detail for "Type L" driveway approach.

E. Concrete Driveway Approaches shall be constructed on minimum 6 inches of 21AA limestone as incidental to the cost of the approaches.

1.47 CONCRETE SIDEWALK, 4"

A. This pay item is for replacement of sections of sidewalk removed as a part of this project for excavations, at intersections, or removed to install other work on this project.

B. The unit price for sidewalk installation shall include all materials, labor, equipment and other work necessary for grading, grade preparation, six (6) inches sand base, forming, and pouring the concrete sidewalk, and sawcutting the sidewalk joints per the plans.

1.48 REINSTALL SALVAGED BRICK PAVERS

A. This pay item includes all labor, equipment, and material to re-install salvaged brick pavers near the playground in Linden Park, just south of the proposed reconstruction work for Brandon Street. All pavers shall be installed on a prepared subgrade and various aggregate layers as detailed in the plan detail for "pedestrian paver section".

1.49 HANDICAP RAMP TRUNCATED DOMES

A. Each sidewalk ramp constructed as a part of this project shall include a detectable warning plate of truncated domes. The Contractor shall supply and install cast iron plates as manufactured by East Jordan Iron Works, or approved equal. Payment for the handicap ramp truncated domes shall be per square foot of detectable warning surface installed. In general, each ramp shall include a two (2) foot by five (5) foot detectable warning surface of truncated domes. In cases where there is not enough space for separate ramps, radial plates may be specified on the plans.

B. Contractors have experienced long lead times to obtain the cast iron detectable warning plates. The Contractor shall be encouraged to place the order for the necessary items well in advance of the proposed installation dates. Substitutions or changes in design due to lack of parts shall not be approved.

1.50 ADJUST STRUCTURE COVER

A. All manhole covers that are within the work area that need adjustment, but do not need any repairs below the top six (6) inches beneath the casting shall be paid for under this pay item. If additional work is required below the top six (6) inches beneath the casting, then all of the work, including the adjustment, shall be paid for under the "RECONSTRUCT MANHOLE (IF & WHERE NEEDED)". The repair shall be measured vertically from the top of the existing cover to the ending point of the repair. Adjustment of all new structures shall be included in the price of the new structure, and shall not be paid for under this pay item.

1.51 MAINTENANCE AGGREGATE FOR ENTIRE PROJECT

A. As noted elsewhere, the majority of the project will be closed to through traffic until the work on the project is completed. However, the contractor will be required to maintain access for local residents through most of the project. The only time that the road may be closed off completely from adjacent residents is when the road is being excavated to the base, limestone is being installed, and when the concrete street is being formed, poured, or cured. This pay item is to pay for all labor, materials and equipment to furnish and install temporary aggregate in the roadway and/or the sidewalks to ensure safe passage by the local residents. In particular, there are five (5) areas where the Contractor will be asked to ensure that safe travel is available during the project:

   A. Within the intersections on the project site that will remain open to cross traffic during the construction period.

   B. Within the intersections on job where sewer or water main work will extend out into the intersections.

   C. To allow for access to all driveways on the project after pavement removals and utility work for the day. Conditions during the underground phases shall be such that residents shall be allowed and able to drive to and from a gap in the barricades to their driveways at all times, unless an excavation is underway in the immediate area of their driveway.

D. At all sidewalk transition areas, ensuring that pedestrians are safe at all times.

E. At all points where sidewalk has been removed but yet not replaced.

B. Contractor may use crushed concrete, or asphalt millings as long as they provide a smooth passable surface.

1.52 MOBILIZATION

A. The purpose of this pay item is to provide payment to the Contractor for the cost of delivering equipment and materials to the job site as needed throughout the project. The Contractor shall not charge more than 5% of the total cost of the project for this pay item. Providing a price in excess of 5% could be grounds for invalidation of the bid.

B. Payment for this pay item shall be divided into 2 parts. The first payment will be for 75% and the second payment for 25%, with payments arriving on each of the first two disbursements. The Contractor should anticipate being paid approximately every 30 days for work on this Contract.

1.53 TRAFFIC MAINTENANCE AND CONTROL

A. The Contract Proposal indicates that this pay item will be paid for by the Lump Sum. Although paid as a lump sum, note that the Engineer has experienced difficulty in the past with certain Contractors not maintaining signing and traffic control measures on a daily basis to the extent considered necessary to properly protect the work area. Therefore, the Contractor shall submit a written time schedule to be reviewed and approved by the Engineer no later than 7 calendar days after the pre-construction meeting, if not sooner. Once approved, the number of calendar days (not counting Sundays) that the schedule indicates are required to complete the project shall be agreed upon by the Engineer and the Contractor, as stipulated in the written time schedule.

The Engineer will be checking the completeness of the signing and road closure features on a daily basis, and will ask for corrections as noted. The Contractor shall have a minimum of one representative on site with the Engineer at the end of the work day verifying that the condition of the traffic control signage is approved before leaving the project site for the day. The following shall be grounds for not receiving payment for this pay item for any given day:

A. If the Engineer has requested signage to be addressed prior to the Contractor leaving the site and it has not been done, or has not been done satisfactorily. The Engineer shall photograph and document incomplete signage conditions when observed, for the record.

B. If the Contractor's staff has all left the job site for the day before determining whether or not traffic control conditions have been approved by the Engineer. If problems are later identified by the Engineer, they shall be photographed and documented, for the record.

C. When not paying for this pay item under the conditions noted in #2 above, the Engineer shall consider how the discrepancy may have occurred. For example, if the problem is located outside of an area that would have been impacted by the Contractor, and if it appears that the discrepancy was caused by the public (such as the relocation of a barricade) at a time of day that the Contractor would not have reasonably known about the problem, then payment will not be docked for that day. Nevertheless, it shall be the Contractor's responsibility to make the effort to check all pertinent areas at the end of the work day so that this condition does not routinely occur.

D. To calculate the reduction of payment on the LS pay item, the Engineer shall use the following basis as an example:

If the time schedule referenced above indicates that the project will require the maintenance of traffic control measures for 70 calendar days (not including Sundays), and should the Contractor not meet the terms of the pay item for one day under the terms noted above, then the LS pay item shall be reduced in the amount of 1/70 of the pay item for each such day that traffic maintenance has not been performed within the terms of the Contract.

B. Prior to closing any of the streets on this project to through traffic, the Contractor shall supply cones, barriers, and warning signs in accordance with the MUTCD. Road closure signage shall not be erected more than two (2) work days in advance of planned closing, and erection of signing shall not begin until approved by the Engineer. At all entrances to the job site, the Contractor shall always maintain the appropriate number of Type III barricades and an R11-2 (ROAD CLOSED) signs. Appropriate advance warning at entrances to the job site shall be defined as maintaining a Type III at the next end of the affected block and an R11-4 (ROAD CLOSED TO THRU TRAFFIC) sign. Additional barricades shall be supplied as needed when the road is completely closed, such as when preparing the stone grade for paving, and when the concrete pavement has been recently placed. Refer to the proposed Advanced Warning Signage (AWS) diagram for additional traffic control requirements.

C. Project-Specific Traffic Maintenance and Control Requirements:

1. In general, traffic controls shall be provided to prevent thru-traffic within the project limits but resident access must be maintained in at least one direction for the duration of the project. The Contractor shall keep the road accessible to all residents during all phases of the project, except as follows:

   If concrete or asphalt work is required across a driveway, the work shall be done expeditiously after removals, so as to keep residents parking on the street or other driveways to a minimum.

   If asphalt or concrete is being placed.

   If open trenching in the road makes driving in the immediate area hazardous.

2. Ingress/Egress to both Maple and Lincoln must be Maintained from either Arlington or Shirley at all times. Flag control must be provided in specific instances to provide safe access for residents.

3. The Contractor shall provide all materials, labor and equipment necessary to install, maintain, move, and remove traffic control devices as required due to changing traffic access needs during the project.

4. The Contractor shall maintain access to driveways (including using temporary maintenance gravel) at all times throughout the project unless otherwise directed by the Engineer. If a parcel has more than one driveway for access, one driveway may be closed for construction with approval from the engineer.

D. The Contractor shall be responsible for maintaining traffic control that allow local access to the residents as specified above, including having flag control or labor to move barricades as necessary to facilitate both their operations and local traffic.

E. Once the road pavement is installed, and seven (7) days curing has been accomplished, the Contractor shall immediately begin preparing for sidewalk and drive approach construction, again, placing concrete expeditiously to allow the curing time to begin as soon as practical. Particular attention to safe and accessible sidewalks shall be provided when the road is closed to all vehicular

traffic, given that the sidewalks shall be the only means of access for residents. The Contractor shall repair all sidewalks in driveway areas at the same time as the adjacent drive approaches, again to reduce the time that driveways are out of service.

F. The Contractor shall maintain signs and barricades as necessary to maintain traffic on this route as shown on the traffic control diagrams in the drawings.

G. It is anticipated that a small number of residents will, due to health or handicapped access reasons, require almost continuous access to their driveway. With that in mind, the Contractor shall include in the cost of the bid up to two (2) gaps for specific driveway access on half of the width of the road. Communications with the homeowners will occur well in advance of the paving phase, and any gapping requirements will be made clear to the Contractor. The City will not encourage any pavement gapping with the public, and if they are not needed, the Contractor will not be asked to provide them.

H. The Contractor shall endeavor to keep the cross streets, as well as the local access within the construction zone as clean and dust free as practical during construction.

1.54 INSPECTOR CREW DAYS

A. The "Inspector Crew Days" provision as stated in the "General Requirements" section of the Contract shall be modified as noted below:

A. Saturday or Sunday work for this project shall be charged similar to the other weekdays.

B. All days shall be charged to a maximum of one (1) day per inspector on the site, regardless of total number of hours spent on the project per day.

C. The number of crew days for each pay period will be added as a pay item (up to the amount bid as a maximum) and the actual number of days used will be deducted from the overall total amount due with each pay estimate. If the total amount bid has not been used at the end of the contract, the bid amount will be paid on the final estimate.

D. If additional work other than what is noted herein is necessary to complete the project, the City will consider adjusting the inspector crew days number upon request. The adjustment shall be based upon the percentage increase in the total value of the project over what was originally bid.

1.55 WATER & SEWER ALLOWANCE

A. Due to gaps in some of the water & sewer records, there may be some exploratory work required to ensure that all homes are connected to the new water main and combined sewer. City staff will endeavor to assist the Contractor wherever possible to keep such work to a minimum. Unexpected work or time lost due to malfunctioning gate valves, or conflicts with the proposed pipeline shall also qualify as time and material work paid for under this allowance.

B. Payment under this pay item shall only apply when additional work was required as a result of missing information on sewer service connections, or for work that is not normally associated with the pay items as presented in the plans and specifications. The Contractor and the City shall agree to the time spent on a daily basis that will apply under this provision. In addition, the Contractor shall submit a written statement for each such incident, documenting all labor and equipment charges on an hourly basis used, as well as any materials used, to be paid for under this provision.

C. For bidding purposes, the allowance shall be the flat amounts listed in the proposal sections. Any amendment may render the bid invalid.

1.56 PAVEMENT MARKINGS

A. All pavement markings must be provided to the size and color as noted, and using the material noted. All materials shall comply with MDOT standard specifications.

1.57 SALVAGE EXISTING SIGNS

A. The Contractor shall protect and work around all existing signs wherever possible. If signs need to be removed to accommodate underground work, they shall be replaced with a new post and salvaged sign prior to the end of the project.

B. Any STOP signs removed shall be erected again at the end of the day either on a temporary or permanent basis, with a permanent installation required prior to the end of the project. All sign removals and replacements, including relocations where noted on the plans, shall be paid for under the lump sum of Salvage Existing Signs.

C. Street name signs shall be stored in a safe location during construction, and installed back in the same location upon completion of the project. The salvaged signs shall be paid for accordingly.

1.58 SIGN POSTS, U-CHANNEL

A. All new signs posts shall be buried four (4) to five (5) feet below the ground, with an adequate length above the ground to mount all of the new proposed signs above the specified bottom height of the sign. Sign posts shall be a ridgeback U-channel galvanized steel, with a weight of three (3) pounds per linear foot.

1.59 TREE PROTECTION, 3" DIA. OR GREATER

A. The Contractor shall take all prudent and feasible measures that will reduce or eliminate the impacts of development and construction on City owned trees. Trees shall be surrounded by protective cushioning, posts or fencing before construction work begins, if, in the judgment of the Staff Arborist or the Engineer, such precautions are necessary.

B. On all trees greater than three (3) inches in diameter, but less than eighteen (18) inches away from the back of curb (from the edge of the trunk), straw bales shall be installed on end between the tree and the road. Straw bales shall be erected completely around the tree when said tree is in the median. The straw bales shall be wired to the tree around the entire trunk to ensure that they remain in place. If construction of sewer, water main, or concrete requires temporary removal, the bales shall be removed and set aside during that day. The bales shall be re-secured at the end of the work day as needed.

   A. Barriers shall remain in place until all site activities have been completed. Barriers may not be relocated or removed without the prior approval of the Staff Arborist.

   B. The barrier material must be visible and solid enough to withstand the pressure from anything piled up against it.

   C. Protection shall apply to all trees over three (3) inches in diameter.

C. All trees greater than three (3) inches in diameter, but less than eighteen (18) inches away from the back of the curb (from the edge of the trunk) shall have four (4) temporary fence posts installed around the base of the tree, with snow fence connected to all four (4) posts. Snow fence shall remain in place at all times, except when excavation or paving work in the immediate area requires its temporary removal. After work is completed for the day, the snow fence shall be erected back into place by the Contractor.

D. Activity within the Root Protection Zone of a City owned tree (normally considered the drip line) shall be limited where practical as determined by the Engineer. These activities shall include, but not be limited to, changing grade, stripping topsoil, and/or placing solvents, building materials, construction equipment, or soil deposits within the Root Protection Zone. The Contractor shall be prepared to perform advance pruning of any City owned trees required for clearance during construction development activities. Pruning must be performed by a qualified arborist and not by untrained construction personnel. Any roots damaged during grading or development activities shall be exposed to sound tissue and cut cleanly with a saw following recommended standards and as directed by the Staff Arborist. Whenever possible, no excess soil, additional fill, liquids, or construction debris shall be placed within the Root Protection Zone of any City owned tree. Construction pruning and root pruning of any City owned trees directly affected by construction require obtaining prior approval from the Staff Arborist.

E. Trees shall be protected as described above for any tree over three (3) inches in diameter. Trees less than three (3) inches shall be protected at Contractor expense, however, trees shall be replaced at Contractor expense if there is any damage to the tree as determined by the Engineer or Staff Arborist.

1.60 MULCH, 3"

A. In areas where it will be difficult to establish grass around existing trees, the Contractor shall restore around the trees where directed by the Engineering with three (3) inches of topsoil, and then three (3) inches of hardwood landscape mulch as needed. No mulch shall be placed at trees where the root structure will allow the placement of sod instead. The three (3) inches of topsoil shall be paid for under the Topsoil pay item.

1.61 TOPSOIL, 3"

A. Topsoil shall be placed according to the Michigan Department of Transportation 2012 Standard Specifications for Construction, Modified to be screened with no objects greater that one (1) inch in diameter.

B. Topsoil shall be a loamy material. Payment shall be made for topsoil placed to the depth specified, per square yard. Payment shall include all labor, equipment and materials necessary to place the topsoil.

1.62 SOD, CLASS A

A. Restoration work of this nature shall be limited to the period of time between May 1st and October 31st of each year. Installation of sod (or seed) outside of these dates shall be with special approval only by the Engineer.

B. Payment on 50% of the pay items regarding restoration may be withheld until the sod or seed has satisfactorily germinated or been established.

C. The Contractor shall be responsible for watering all sod placed on the project for a period of fourteen (14) days, and at the end of fourteen (14) days, the sod areas shall be inspected by the City. Any sod areas that appear to be failing shall be marked for removal. Removal and replacement of failed sod areas shall be incidental.

D. A small percentage of the finished areas may be sloped (such as adjacent an existing tree) such that they cannot be sodded. These areas shall be seeded and included in the square yardage for sod placed. Seed shall also be placed at the same price should any adjacent property owners request seed substitution for sod.

1.63 INLET FILTER

A. Installation of this item shall follow the standard details prepared by the Oakland County Water Resources Commissioner. The detail for the "Inlet Filter" shall be modified appropriately to accommodate the proposed flat catch basin covers.

B. This pay item will be required on existing catch basins during all excavation, removal, subbase preparation, etc.

1.64 INLET SEDIMENT PIT

A. Installation of this item shall follow the standard details prepared by the Oakland County Water Resources Commissioner.

B. This item will only be used should weather cause significant delay after the curbs have been installed and the subbase is awaiting the first course of bituminous pavement. Note that this pay item shall be installed, at the direction of the City, if there is significant delay in the project at this point, regardless of the cause. The work will not be paid for if it is evident that the delay is the responsibility of the Contractor, his Subcontractors or suppliers.

1.65 LAWN SPRINKLERS

A. In General, the Contractor shall take all necessary precaution to maintain all items placed in the right-of-way, and any items removed or damaged shall be replaced in kind. The exception to this is lawn sprinklers in the right-of-way. As long as the damage is not due to Contractor negligence, sprinklers that are in conflict with the construction may be removed and need not be replaced by the Contractor. The Contractor shall take precautions not to damage the sprinkler system any more than necessary, and shall notify the City of any sprinklers that are found during construction.

B. If a lawn sprinkler line located within the right-of-way is damaged, the Contractor shall sufficiently plug or cap the line to prevent the sprinkler line from discharging when the system is activated, and shall notify the City of the location of the damage.

C. Lawn sprinklers located on private property shall be the Contractor's responsibility to repair if damaged. For the purposes of this provision, private property shall be defined as any sprinkler damaged between the City sidewalk and the house.

1.66 DUST CONTROL

A. Dust & dirt control, and general cleanliness of the project work area and vicinity will be monitored by the Engineer on a regular basis. For unpaved surfaces, dust control can take the form of watering the grade, or treating the grade with calcium chloride. Particular attention shall be paid to areas where cross-streets generate more traffic than usual. For paved surfaces, streets must be swept on a regular basis to avoid excess dust being created by traffic. While minor sweeping can be accomplished by a broom tractor, larger sweeping jobs must be accomplished by a professional street sweeper so as to avoid throwing dust, dirt, and stones into the adjacent yards. Although not a direct pay item, the Contractor shall be prepared to address dust and dirt issues as requested by the Engineer within 24 hours. If such issues are not being addressed timely or inappropriately, the Engineer shall have the right to direct its own forces or other contractor to the job site to address the area in question. Such costs shall be charged against the final payment due to the Contractor.

1.67 PUMPING, BAILING, DRAINING, AND DEWATERING

A. The contractor shall provide and maintain adequate pumping and drainage facilities for removal and disposal of water from trenches or other excavations, to maintain stable excavations.

B. Where the work is in ground containing an excessive amount of water, the contractor shall provide, install, maintain, and operate suitable deep wells or well points, connecting manifolds and reliable pumping equipment to operate the same to ensure proper construction of the work. Alternate dewatering methods may be implemented if approved by the Owner. Refer to the geotechnical report (Appendix A) for pertinent information, and as applicable, the plans have identified areas for the potential need for well points for deeper excavations based upon discussions with the geotechnical report preparer.

C. Drainage or discharge lines shall be connected to adjacent public storm water drains or extended to nearby water courses wherever possible. In any event, all pumping and drainage shall be done without damage to any highway or other property, public or private, and without interference with the rights of the public or private property owners and in accordance with the EGLE and local requirements for soil erosion and sedimentation control.

D. Costs for providing, maintaining, or operating any dewatering or drainage facilities will not be paid for separately and shall therefore be included in other items of work.

END OF SECTION

APPENDIX – A

SOIL BORING AND PAVEMENT CORE INFORMATION

CONSULTING GROUP

Report on Geotechnical Investigation

Arlington Street and Shirley Drive Water Main and Sewer Upgrades W. Lincoln Road to W. Maple Road Birmingham, Michigan

Latitude 42.545732° N
Longitude 83.231377° W

Prepared for:

Nowak & Fraus Engineers, Inc.
47777 Woodward Avenue
Pontiac, Michigan 48342

G2 Project No. 230653
March 9, 2024

CONSULTING GROUP

March 9, 2024

Mr. Brett J. Buchholz, P.E.
Principal
Nowak & Fraus Engineers, Inc.
47777 Woodward Avenue
Pontiac, Michigan 48342

Re: Report on Geotechnical Investigation
Arlington Street and Shirley Drive Water Main and Sewer Upgrades
W. Lincoln Road to W. Maple Road
Birmingham, Michigan
G2 Project Number 230653

Dear Mr. Buchholz:

We have completed the geotechnical investigation for the proposed water main, sewer, and paving improvement project for Arlington Street and Shirley Drive between W. Lincoln Road and W. Maple Road within the City of Birmingham, Oakland County, Michigan. This report presents the results of our observations and analyses and our recommendations for pavement section design, underground utility replacement, and construction as they relate to the geotechnical conditions on site.

We appreciate the opportunity to be of service to the Nowak & Fraus Engineers, Inc., on this project and look forward to discussing the recommendations presented. In the meantime, if you have any questions regarding this report or any other matter pertaining to the project, please contact us.

Sincerely,

G2 Consulting Group, LLC

Aidan E. Nolan, E.I.T.
Staff Engineer

Noel J. Hargrave-Thomas, P.E.
Principal

Jeffrey M. Hayball, P.E.
Project Manager

AEN/NJHT/JMH/ljv

Enclosures

EXECUTIVE SUMMARY

The project consists of water main, sewer, and paving improvements for Arlington Street and Shirley Drive between W. Lincoln Road and W. Maple Road within the City of Birmingham, Michigan. We assume most of the water main will be installed using open-cut installation methods and combined sewer upgrades will be installed by conventional excavation methods, extending up to 12 feet below pavement grade. The existing pavements are proposed to be reconstructed with a new Hot Mix Asphalt (HMA) pavement section.

The pavement thickness at the core sample locations ranges from approximately 3 inches to approximately 7-1/4 inches. The bituminous pavement is underlain by approximately 12 to 19 inches of natural brown gravelly sand aggregate base within borings B-01, B-03 through B-05, and B-07. The bituminous pavement is underlain by approximately 5 to 8 inches of natural brown gravelly sand aggregate base within borings B-08 through B-10. The bituminous pavement is underlain by approximately 9 inches of crushed limestone gravelly sand aggregate base within boring B-11. No aggregate base is present below the bituminous pavement within borings B-02 and B-06.

Granular fill soils consisting of loose to medium compact sand, silty sand, and sandy silt with trace organic matter, are present below the bituminous pavement within borings B-02, B-04, B-06, and B-09 and extend to depths ranging from 2-1/2 feet and 5-1/2 feet. Very stiff to hard silty clay fill with trace organic matter underlies the pavement sections within borings B-10 and B-11 and extends to depths of 4 feet and 5-1/2 feet, respectively. Native granular soils consisting of very loose to medium compact sand, silt, silty sand, and sandy silt underly the pavement sections or fill soils within borings B-01 through B-07, and extend to depths ranging from 4-1/2 feet to 11 feet within borings B-02, and B-04 through B-07, and the explored depth of 15 feet within borings B-01 and B-03. Native stiff to hard silty clay underlies the native granular soils, fill soils, and pavement section within borings B-02, B-04 through B-11 and extends to the explored depth of 15 feet. Groundwater was encountered at depths ranging from approximately 3 to 6-1/2 feet within borings B-01 through B-04, B-06, and B-07 during drilling operations. Upon removal of the drilling augers, groundwater was measured at an approximate depth of 9 feet within boring B-04. In addition, a wet collapse of the bore hole was observed in borings B-01 through B-03 at depths ranging from approximately 6 to 11 feet upon removal of the drilling augers. No measurable groundwater was observed upon removal of drilling augers in borings B-06 and B-07. No measurable groundwater was observed within the remaining borings during drilling operations or upon removal of the drilling augers.

Given the existing groundwater conditions and anticipate invert depths of the utilities, it will be necessary to temporarily lower the groundwater table prior to open cut excavation in order to install these utilities under dry conditions. Due to the proposed depth of excavation, we recommend temporary groundwater control consisting of pumping from properly constructed sumps where the groundwater level may need to be lowered only 1 to 2 feet. We recommend that well points be installed to lower the groundwater more than 2 feet.

Temporary unsurcharged trench excavations for the proposed open-cut utility installation operations must be sloped back at a minimum of 2H:1V (horizontal: vertical) within the existing very loose to loose granular soils, 1-1/2H:1V within the medium compact to compact granular soils and stiff cohesive soils, and at a minimum of 1H:1V within the very stiff to hard cohesive soils.

Based on the results of our analyses, we recommend a new HMA pavement section consisting of 2 inches 5EML bituminous concrete wearing course, 2 inches of MDOT 4EML bituminous concrete leveling course, supported on a minimum of 8 inches of the MDOT 21AA aggregate base course. We recommend all bituminous concrete materials have a binder from RAP less than 17 percent of the total binder and using a binder of PG 64-22.

Do not consider this summary separate from the entire text of this report, with all the conclusions and qualifications mentioned herein. Details of our analysis and recommendations are discussed in the following sections and in the Appendix of this report.

PROJECT DESCRIPTION

The project consists of water main, sewer, and paving improvements for Arlington Street and Shirley Drive between W. Lincoln Road and W. Maple Road within the City of Birmingham, Michigan. Underground improvements include combined sewer upgrades and water main replacement. We assume most of the water main will be installed using open-cut installation methods and combined sewer upgrades will be installed by conventional excavation methods. It is assumed that maximum excavation depths for the underground work will be limited to approximately 12 feet below pavement grade. The existing pavements are proposed to be reconstructed with a new Hot Mix Asphalt (HMA) pavement section.

SCOPE OF SERVICES

The field operations, laboratory testing, and engineering report preparation were performed under direction and supervision of a licensed professional engineer. Our services were performed according to generally accepted standards and procedures in the practice of geotechnical engineering in this area. Our scope of services for this project is as follows:

1. We performed a total of eleven (11) soil borings within the proposed project extending to a depth of 15 feet each. We measured the existing pavement section material (bituminous concrete) and identified the type and condition of subgrade soils.

2. We performed laboratory testing on samples obtained from the soil borings. Laboratory testing included visual engineering classification, moisture content, organic matter content (loss-on-ignition), dry density, unconfined compressive strength determinations, and grain size distribution determinations.

3. We prepared this engineering report. Our report includes recommendations for pavement reconstruction and underground utility replacement construction.

FIELD OPERATIONS

G2 Consulting Group, LLC, selected the number, depth, and location of the soil borings. The soil borings were located in the field by a G2 representative by measuring from existing site features and landmarks using conventional taping methods. The approximate soil boring locations are shown on the Soil Boring Location Plan, Plate No. 1. Ground surface elevations were not available at the time of the field investigation. We recommend the soil boring locations be surveyed so that soil and groundwater conditions can be referenced by elevation for use in construction.

The soil borings were drilled using a truck-mounted rotary drilling rig. Continuous flight, 2-1/4-inch inside diameter, hollow-stem augers were used to advance the boreholes. The soil samples were obtained at intervals of 2-1/2 feet within the upper 10 feet and at 15 feet by the Standard Penetration Test (SPT) method ASTM D1586, which involves driving a 2-inch diameter split-spoon sampler into the soil with a 140-pound weight falling 30 inches. The sampler is generally driven three successive 6-inch increments with the number of blows for each increment recorded. The number of blows required to advance the sampler the last 12 inches is termed the Standard Penetration Resistance (N). The blow counts for each 6-inch increment and the resulting N-value are presented on the soil boring logs.

The soil samples were placed in sealed containers in the field and brought to the laboratory for testing and classification. During the drilling operations, the drilling crew maintained logs of the encountered subsurface conditions, including changes in stratigraphy and observed groundwater levels of the soil borings to be used in conjunction with our analyses of the subsurface conditions. The final boring logs are based on the field logs and laboratory soil classification and testing. After completion of the drilling operations, the boreholes were backfilled with excavated soil and capped with cold patch.

LABORATORY TESTING

Representative soil samples were subjected to laboratory testing to determine soil parameters pertinent to pavement design and underground utility construction. An experienced geotechnical engineer classified the samples in general conformance with the Unified Soil Classification System.

Laboratory testing included natural moisture content, organic matter content (loss-on-ignition), dry density, unconfined compressive strength determinations, and grain size distribution determinations. The organic matter content of representative samples was determined in accordance with ASTM Test Method D 2974, "Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils". The unconfined compressive strengths were determined by ASTM Test Method D2166 and using a spring-loaded hand penetrometer. Per ASTM D2166, the unconfined compressive strength of cohesive soils is determined by axially loading a small cylindrical soil sample under a slow rate of strain. The unconfined compressive strength is defined as the maximum stress applied to the soil sample before shear failure. If shear failure does not occur prior to a total strain of 15 percent, the unconfined compressive strength is defined as the stress at a strain of 15 percent. The hand penetrometer estimates the unconfined compressive strength to a maximum of 4-1/2 tons per square foot (tsf) by measuring the resistance of the soil sample to the penetration of a calibrated spring-loaded cylinder. Grain size distribution was determined in general conformance with ASTM C 136 method of testing.

The results of the moisture content, organic matter content, dry density, and unconfined compressive strength laboratory tests are indicated on the soil boring logs at the depths the samples were obtained. Unconfined Compressive Strength Test are shown graphically on Figure No. 12 within the Appendix. The grain size analyses are presented in the Appendix as Grain Size Distribution, Figure Nos. 13 through 15. We will hold the soil samples for 60 days from the date of this report. If you would like the samples, please let us know.

EXISTING PAVEMENT CONDITIONS

In general, the pavements over the project area are in fair conditions with localized areas in relatively poor condition. Pavement distress includes random cracking, weathering or loss of surface aggregate, areas of rutting in the wheel paths, areas of flushing, localized areas of fatigue cracking and disintegrating pavement, and several areas where full depth pavement patches are present.

It is understood that prior to approximately 1980, unimproved or aggregate surfaced streets within the City were treated by a periodic "Road Oiling Program", a common practice by MDOT, county agencies, and localities at the time which consisted of surface applying slow curing (SC Grade) cutback asphalt liquid to the exposed aggregate surface. As a result of the application of the cutback asphalt, the surface was stabilized or hardened as the lighter components of the cutback evaporated or volatized. After approximately 1980, the City as well as most other agencies switched from application of liquid asphalt cutbacks to chip seal or cape seal surface treatments that typically include fine graded crushed slag aggregate and emulsified liquid asphalt. The service life of these surface treatments is generally expected to range from approximately 5 to 10 years.

The pavement thickness at the core sample locations ranges from approximately 3 inches (B-05) to approximately 7-1/4 inches (B-10). The average thickness of the eleven samples collected for this study is nominally 4-1/2 inches. An examination of the core samples reveals the history of surface treatments over the routes. In general, the upper 1 inch to 1-1/2 inches of each sample (3-1/4 inches at B-04) contain fine graded crushed slag and asphalt emulsion from successive chip or cape seal applications. Below that upper surface layer is a layer of natural aggregate that appears to be the surface of the underlying natural aggregate base course that has been stabilized by cutback asphalt in the road oiling program.

It is noted that there are multiple full depth patch areas along the routes where the pavement appears to be hot-mix-asphalt (HMA) that has not received the chip or cape seal surface treatments. There may be other areas of HMA pavement as result of patching and repairs that have been overlaid by the surface treatments and are not visible from the surface.

The bituminous pavement is underlain by approximately 12 to 19 inches of natural brown gravelly sand aggregate base within borings B-01, B-03 through B-05, and B-07. The bituminous pavement is underlain by approximately 5 to 8 inches of natural brown gravelly sand aggregate base within borings B-08 through B-10. The bituminous pavement is underlain by approximately 9 inches of crushed limestone gravelly sand aggregate base within boring B-11. No aggregate base is present below the bituminous pavement within borings B-02 and B-06.

The pavements are crowned, allowing for surface runoff water to drain to the curb line where it is directed into catch basins or inlet structures within the roadways.

EXISTING SUBSURFACE CONDITIONS

Granular fill soils consisting of sand, silty sand, and sandy silt with trace organic matter, are present below the bituminous pavement within borings B-02, B-04, B-06, and B-09 and extend to depths ranging from 2-1/2 feet and 5-1/2 feet. Silty clay fill with trace organic matter underlies the pavement sections within borings B-10 and B-11 and extends to depths of 4 feet and 5-1/2 feet, respectively. Native granular soils consisting of sand, silt, silty sand, and sandy silt underly the pavement sections or fill soils within borings B-01 through B-07, and extend to depths ranging from 4-1/2 feet to 11 feet within borings B-02, and B-04 through B-07, and the explored depth of 15 feet within borings B-01 and B-03. Native silty clay underlies the native granular soils, fill soils, and pavement section within borings B-02, B-04 through B-11 and extends to the explored depth of 15 feet.

The granular fill soils are loose to medium compact with Standard Penetration Test (SPT) N-values ranging from 6 to 26 blows per foot (bpf) and an organic matter content of 3.2 percent. The silty clay fill is very stiff to hard in consistency with moisture contents ranging from 17 to 30 percent, organic matter contents ranging from 1.7 to 6.6 percent, and unconfined compressive strengths ranging from 4,000 to 9,000 pounds per square foot (psf). The native granular soils are very loose to medium compact in consistency with Standard Penetration Test (SPT) N-values ranging from 3 to 26. The native silty clay is stiff to hard in consistency with natural moisture contents ranging from 14 to 24 percent, a dry density of 109 pounds per cubic foot (pcf), and unconfined compressive strengths ranging from 3,500 to 9,000 psf.

The stratification depths shown on the soil boring logs represent the soil conditions at the boring locations. Variations may occur between borings. Additionally, the stratigraphic lines represent the approximate boundaries between soil types. The transition may be more gradual than what is shown. We have prepared the boring logs on the basis of laboratory classification and testing as well as field logs of the soils encountered.

Soil Boring Location Plan, Plate No. 1, Soil Boring Logs, Figure Nos. 1 through 11, Unconfined Compressive Strength Test, Figure No. 12, Grain Size Distribution, Figure Nos. 13 through 15, and Photographic Documentation, Figure Nos. 16 through 26, are presented in the Appendix. The soil profiles described above are generalized descriptions of the conditions encountered at the boring locations. General Notes Terminology defining the nomenclature used on the soil boring logs and elsewhere in this report are presented on Figure No. 27.

GROUNDWATER CONDITIONS

Groundwater observations were performed during drilling operations and upon removal of the drilling augers. Groundwater was encountered at depths ranging from approximately 3 to 6-1/2 feet within borings B-01 through B-04, B-06, and B-07 during drilling operations. Upon removal of the drilling

augers, groundwater was measured at an approximate depth of 9 feet within boring B-04. In addition, a wet collapse of the bore hole was observed in borings B-01 through B-03 at depths ranging from approximately 6 to 11 feet upon removal of the drilling augers. No measurable groundwater was observed upon removal of drilling augers in borings B-06 and B-07. No measurable groundwater was observed within the remaining borings during drilling operations or upon removal of the drilling augers. Fluctuations in perched and long-term groundwater levels should be anticipated due to seasonal variations and following periods of prolonged precipitation.

WATER MAIN AND SEWER CONSTRUCTION RECOMMENDATIONS

General

The proposed project includes local combined sewer reconstruction and water main replacement. It is assumed that the maximum excavation depths for the underground work will be limited to approximately 12 feet below pavement grade. We understand the combined sewer will be constructed using conventional excavation methods and the proposed water main will be constructed using open-cut installation. Once the proposed pipeline profile becomes available and the pipeline installation methods for each segment of the pipeline alignment have been established, G2 should be notified so that we can review our recommendations presented herein.

Groundwater Control

Groundwater was encountered during drilling operations within borings B-01 through B-04, B-06, and B-07 at depths ranging from 3 to 6-1/2 feet. It is our understanding that maximum excavation depths for the underground work will be limited to approximately 12 feet. Therefore, it will be necessary to temporarily lower the groundwater table prior to open cut excavation in order to construct the water main and sewer under dry conditions. Due to the proposed depth of excavation, we recommend temporary groundwater control consisting of pumping from properly constructed sumps where the groundwater level may need to be lowered only 1 to 2 feet. We anticipate most of the utility installation could be dewatered this way. However, depending on sewer depths, dewatering with well points may be required, especially near soil borings B-01 and B-03. Dewatering granular soils over cohesive soil can be difficult especially if proposed excavations extend into the cohesive soils. These areas may require additional sumps and pumps to adequately dewater the sewer excavations

We recommend that well points be installed to lower the groundwater level prior to beginning excavation operations where necessary. The groundwater level should be lowered to at least two (2) feet below the expected depth of excavation. The well points should be installed by a qualified dewatering contractor. The quantity of the wells will depend on the depth of the wells, the size of the pump that will be used, and the effective hydraulic conductivity of the soils being dewatered. The dewatering contractor should perform his own pump tests to determine the actual hydraulic conductivity of the soil.

Pipeline Support

Based on the observed subsurface conditions and the anticipated invert elevations, we expect the proposed combined sewer will generally be supported on very stiff to hard cohesive soils or medium compact granular soils. In general, these soils are adequate for support of the utilities; however, where loose granular soils are encountered within any open-cut excavations, we recommend the sewer trench invert be compacted to further densify any loose granular material for support of the sewer bedding material. Differential movements of the sewer pipeline may occur if the trench bottom is not adequately stabilized. The exposed subgrade should be visually evaluated for stability prior to the backfilling of the construction excavations.

Open Cut Excavations

Temporary unsurcharged trench excavations for the proposed open-cut water main installation

operations must be sloped back at a minimum of 2H:1V (horizontal: vertical) within the existing very loose to loose granular soils, 1-1/2H:1V within the medium compact to compact granular soils and stiff cohesive soils, and at a minimum of 1H:1V within the very stiff to hard cohesive soils. Where seepage from excavation cuts is observed, the slopes must be flattened sufficiently to achieve stability, but in no case left steeper that 3H:1V at and below the seepage level. If the temporary construction embankments are to be maintained during the rainy season, berms are suggested along the tops of the embankments to prevent runoff water from entering the excavation and eroding the slope faces. The soils exposed in slope faces should be inspected by qualified personnel so modifications of the slopes can be made if variations in the soil or water conditions occur. If sufficient space for open cut consideration is not available trench box shoring may be used.

Trench box shoring may be used provided some lateral deflection of adjacent soils can be tolerated. If a trench box is used, excavations should be performed from within the trench box, such that no unsupported vertical cut is allowed to exist. A trench box is not recommended where adjacent utilities, roadways, or structures are located less than a lateral distance delineated by a plane extending upward from the bottom edges of the excavation at a 1H:1V slope.

All excavations should be safely sheeted, shored, sloped, or brace in accordance with MI-OSHA requirements. If material is stored or equipment is operated near the excavation, stronger shoring must be used to resist the extra pressure due to the superimposed loads. Care should always be exercised when excavating near existing buildings, roadways, or utilities to avoid undermining. In no case should excavations extend below the level of adjacent structures or utilities unless underpinning is planned.

Trench Backfill

Clean granular engineered fill should be used to backfill around the sewer and water main and the remainder of the utility trench. The engineered fill or bedding should be placed up to the springline of the pipe, while making sure that the void beneath the haunches of the pipe are completely filled. The initial lift should be compacted using light-duty compaction equipment, such as walk-behind vibratory plate compactors, and should be compacted in a manner that will not disturb the pipe alignment. The next lift of engineered fill may then be placed to 9 inches above the top of the pipe. Again, light-duty compaction equipment should be used to complete the compaction of the engineered fill.

After the bedding material and initial lift of backfill has been placed and compacted, the remainder of the trench should be backfilled in an engineered manner. The engineered fill should be free of organic matter, frozen soil, clods, or other harmful material. All engineered backfill should be placed in loose layers not to exceed 9 inches in thickness and should be mechanically compacted to achieve a density of at least 95 percent of the materials maximum dry density as determined by the Modified Proctor compact test (ASTM D1557) or in accordance with the latest version of the Michigan Department of Transportation "Density Testing and Inspection Manual". Granular engineered fill material should be placed and compacted at moisture contents within 2 percent above or below the optimum moisture content.

PAVEMENT RECOMMENDATIONS

General

It is our understanding the pavements will be reconstructed with a new HMA pavement section. We recommend completely removing the existing bituminous pavement and underlying aggregate base, cutting the subgrade to the proposed grade, fine grading the exposed subgrade, evaluating the exposed subgrade for stability, performing any necessary undercuts, then constructing the new pavement section.

Pavement Subgrade Preparation

The existing pavements and curbs should be removed along the roadway alignment. We anticipate subgrade cuts will be necessary to accommodate the addition of the recommended dense graded aggregate base materials. We anticipate the subgrade soils will generally consist of fill soils, native granular soils, and native silty clay. All exposed subgrade soils should be evaluated for stability before constructing the new pavement cross-section. We recommend the granular subgrade soils (soil boring B-01 through B-07) be proof rolled with a vibratory roller and making a minimum of 10 passes across the granular subgrade soils. We recommend the silty clay subgrade soils (B-08 through B-11) be proof rolled using a heavily loaded, rubber-tired, tandem-axle dump truck within the cohesive soils area. Unsuitable soils or soils exhibiting excessive instability, such as severe rutting, should be removed by undercutting to expose stable soils.

Subgrade undercuts, if required, should be evaluated by a qualified engineering technician to determine if subgrade stabilization is necessary. We recommend that undercut excavations, where required, be backfilled with MDOT 21AA aggregate, placed in an engineered manner. Lift thicknesses should not exceed 9 inches. The use of a geogrid will reduce undercut depths. We recommend a drain tile be placed within any undercut area that is underlain by cohesive soils (B-08 through B-11) and connected to the closest catch basin to prevent groundwater from pooling within the granular soils undercut. All engineered fill should be compacted to a density of at least 95 percent of the maximum density determined by the Modified Proctor (ASTM D1557) method of testing. All engineered fill material should be placed and compacted at approximately the optimum moisture content. Frozen material should not be used as fill, nor should fill be placed on a frozen subgrade.

Pavement Design

We performed pavement design analyses in accordance with the "AASHTO Guide for Design of Pavement Structures". The subgrade soils will generally consist of fill soils, native granular soils, and native silty clay. Based on the existing subgrade soils, we have provided design pavement sections based on an effective subgrade resilient modulus of 6,500 pounds per square inch (psi).

No information regarding the type or amount of traffic along the existing roadways were available upon completion of this report. However, we assume traffic along the roadways is primarily cars with the occasional garbage and delivery truck. We have designed the proposed pavement sections on an estimated of 100,000 18-kip equivalent single-axle loads (ESALs) over a 20-year design life. If any actual traffic volume information becomes available, G2 Consulting Group should be notified so we can reevaluate our recommendations.

For the proposed new pavement section, we estimated a serviceability loss of 2.0, a standard deviation of 0.49 for flexible pavements, and a reliability factor of 0.95.

Based on the results of our analyses, we recommend a new HMA pavement section consisting of 2 inches 5EML bituminous concrete wearing course, 2 inches of MDOT 4EML bituminous concrete leveling course, supported on a minimum of 8 inches of the MDOT 21AA aggregate base course. We recommend all bituminous concrete materials have a binder from RAP less than 17 percent of the total binder and using a binder of PG 64-22.

All pavement materials are specified within the 2020 Standard Specifications for Construction from the Michigan Department of Transportation. The aggregate materials for the subbase are described in Section 902. The bituminous pavement materials are described in Section 501 and can be assigned a structural coefficient number of 0.42. Any new imported MDOT 21AA material can be assigned a structural coefficient number of 0.14.

Pavement Drainage

Proper pavement drainage is essential for cohesive subgrade soils. We recommend subgrade edge drain be provided along the curb line on both sides of the new pavement sections in the areas of soil borings B-08 through B-11. These drains should be connected to nearby catch basins. The pavement and subgrade should be properly sloped to promote effective surface and subsurface drainage and prevent water from ponding.

Pavement Maintenance

Regular timely maintenance should be performed on the pavement to reduce the potential deterioration associated with moisture infiltration through surface cracks. The owner should be prepared to seal the cracks with a hot-applied elastic crack filler as soon as possible after cracking develops and as often as necessary to block the passage of water to the subgrade soils. In addition, regular joint maintenance should be performed.

GENERAL COMMENTS

We have formulated the evaluations and recommendations presented in this report relative to underground utility construction, site preparation, and pavement reconstruction on the basis of data provided to us relating to the general location for the proposed pavement improvements. Any significant change in this data should be brought to our attention for review and evaluation with respect to the prevailing subsurface conditions.

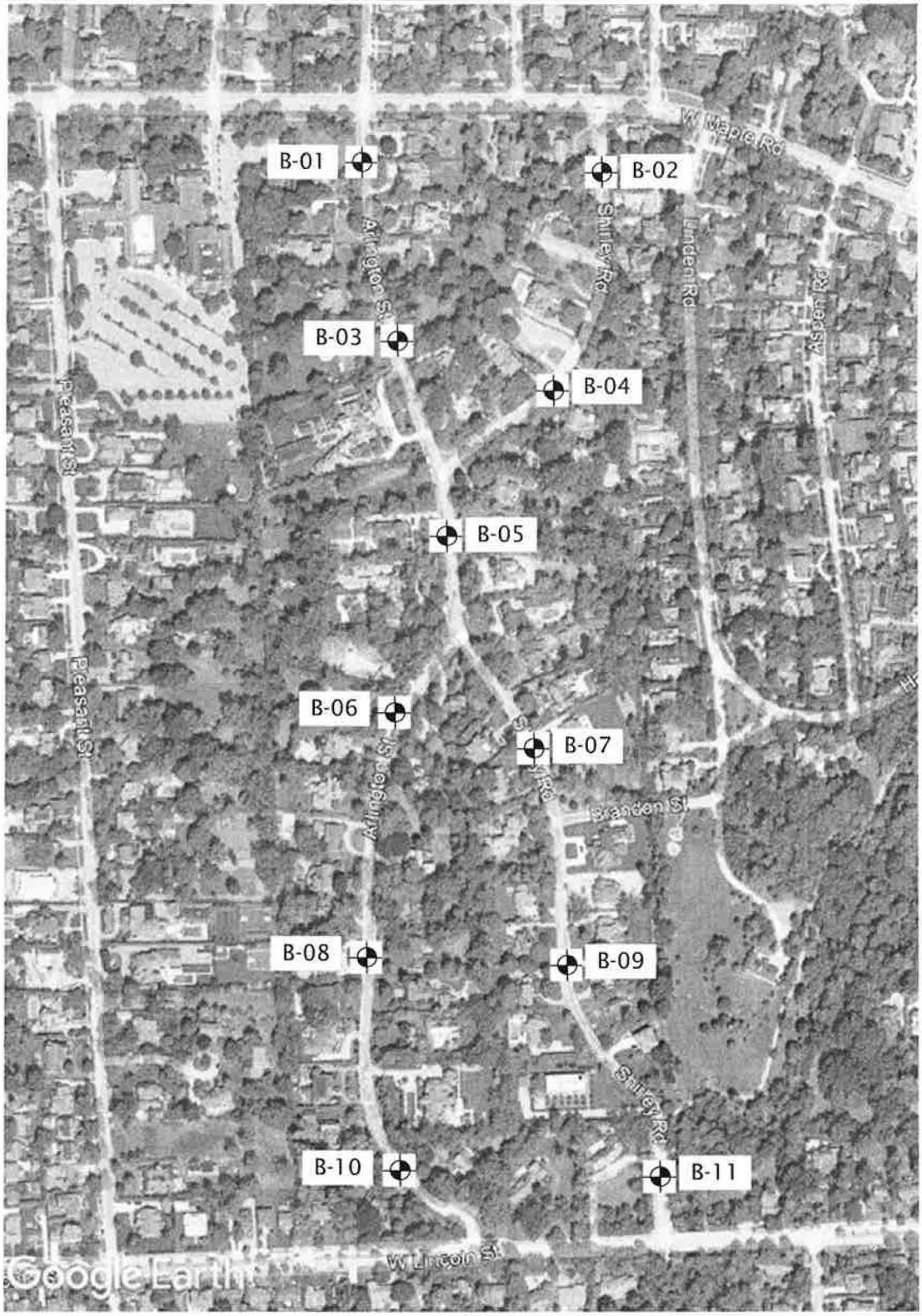
The scope of the present investigation was limited to evaluation of subsurface conditions for the support of the new underground utilities, pavements, and other related aspects of the development. No chemical, environmental, or hydrogeological testing or analyses were included in the scope of this investigation. If changes occur in the design, location, or concept of the project, the conclusions and recommendations contained in this report are not valid unless G2 Consulting Group, LLC reviews the changes. G2 Consulting Group, LLC will then confirm the recommendations presented herein or make changes in writing.

We have based the analyses and recommendations submitted in this report upon the data from soil borings performed at the approximate locations shown on the Soil Boring Location Plan, Plate No. 1. This report does not reflect variations that may occur between the actual boring locations. The nature and extent of any such variations may not become clear until the time of construction. If significant variations then become evident, it may be necessary for us to re-evaluate our report recommendations.

Soil conditions at the site could vary from those generalized on the basis of soil borings made at specific locations. It is, therefore, recommended that G2 Consulting Group, LLC be retained to provide soil engineering services during the site preparation and pavement construction phases of the proposed project. This is to observe compliance with the design concepts, specifications, and recommendations. Also, this allows design changes to be made in the event that subsurface conditions differ from those anticipated prior to the start of construction.

APPENDIX

Soil Boring Location Plan	Plate No. 1
Soil Boring Logs	Figure Nos. 1 through 11
Unconfined Compressive Strength Test	Figure No. 12
Grain Size Distribution	Figure Nos. 13 through 15
Photographic Documentation	Figure Nos. 16 through 26
General Notes Terminology	Figure No. 27



Legend

Soil Borings performed by Triple R Drilling on January 18 and 19, 2024

Soil Boring Location Plan		
Arlington Street and Shirley Drive Water Main and Sewer Upgrades Birmingham, Michigan		
2G CONSULTING GROUP	Project No. 230653	
	Drawn by: JMH	
	Date: 2/26/24	Plate No. 1
	Scale: NTS	

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-01

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

- 0.4: Bituminous Pavement (4-1/2 inches)
- 1.5: Natural Aggregate Base: Brown Gravelly Sand with trace silt (13-1/2 inches)
- 9.5: Medium Compact Brown Sand with trace silt and gravel, occasional gravel seams
- 15.0: Medium Compact Gray Silt with trace clay, sand, and gravel
- End of Boring @ 15 ft

SOIL SAMPLE DATA

SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
AS-1					
S-1	13 11 8	19			
S-2	5 6 6	12			
S-3	3 7 7	14			
S-4	5 7 8	15			
S-5	3 5 7	12			

Total Depth: 15 ft
Drilling Date: January 18, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
6-1/2 feet during drilling operations; wet cave measured at 6-1/2 feet upon removal of augers

Notes:
Boring performed near 175 Arlington

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 1

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24 SOIL / PAVEMENT BO

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades
Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653
Latitude: N/A Longitude: N/A

Soil Boring No. B-02

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

DEPTH (ft)	PRO-FILE		DEPTH (ft)
		Bituminous Pavement (4-1/4 inches) 0.4	
		Fill: Medium Compact Brown and Gray Silty Sand with trace gravel, occasional clay layers 2.5	
		Medium Compact Brown Sandy Silt with trace clay and gravel 4.0	
5			5
		Medium Compact Gray Silt with trace clay, sand, and gravel	
10		11.0	10
		Stiff Gray Silty Clay with trace sand and gravel	
15		15.0	15
		End of Boring @ 15 ft	
20			20

SOIL SAMPLE DATA

SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
S-1	4 5 10	15			
S-2	5 8 9	17			
S-3	7 6 5	11			
S-4	5 7 7	14			
S-5	3 5 5	10	23.9		3500*

Total Depth: 15 ft
Drilling Date: January 18, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
4 feet during drilling operations; wet cave measured at 11 feet upon removal of augers

Notes:
Boring performed near 188 Shirley
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 2

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24
SOIL / PAVEMENT BO

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-03

CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

DEPTH (ft)	PRO-FILE		DEPTH (ft)
		Bituminous Pavement (4-1/4 inches) 0.4	
		Natural Aggregate Base: Brown Gravelly Sand with trace silt (13-3/4 inches) 1.5	
		Loose Brown Sand with trace silt and gravel 4.0	
5		Loose Brown Sandy Silt with trace clay and gravel, occasional clay layers 6.0	5
		Medium Compact Brown Sand with trace silt and gravel 12.0	
10			10
		Medium Compact Gray Silt with trace clay, sand, and gravel 15.0	
15			15
		End of Boring @ 15 ft	
20			20

SOIL SAMPLE DATA

SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
AS-1					
S-1	10 6 4	10			
S-2	2 3 3	6			
S-3	4 7 8	15			
S-4	7 8 8	16			
S-5	4 6 7	13			

Total Depth: 15 ft
Drilling Date: January 18, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
6 feet during drilling operations; wet cave measured at 6 feet upon removal of augers

Notes:
Boring performed near 316 Arlington

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

Figure No. 3

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24
SOIL / PAVEMENT BO

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-04

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

DEPTH (ft)	PRO-FILE		DEPTH (ft)
		Bituminous Pavement (3-1/4 inches)	0.3
		Natural Aggregate Base: Brown Gravelly Sand with trace silt (14-3/4 inches)	1.5
		Fill: Medium Compact Brown Sandy Silt with trace clay and gravel	3.0
5		Fill: Loose Dark Brown Sandy Silt with trace clay, gravel, and organic matter (Organic Matter Content = 3.2%)	5
			5.5
		Very Loose Brown Silty Sand with trace clay and gravel	7.5
10		Medium Compact Gray Silt with trace clay, sand, and gravel	10
			11.0
15		Very Stiff Gray Silty Clay with trace sand and gravel	15
		End of Boring @ 15 ft	
20			20

SOIL SAMPLE DATA

SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
AS-1					
S-1	10 13 13	26			
S-2	2 3 3	6			
S-3	1 1 2	3			
S-4	6 8 5	13			
S-5	3 5 6	11	22.0		4000*

Total Depth: 15 ft
Drilling Date: January 18, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
5 feet during drilling operations; 9 feet upon completion

Notes:
Boring performed near 350 Shirley
Borehole collapsed at 9-1/2 ft after auger removal
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 4

SOIL / PAVEMENT BORING LOG 230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road
Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-05

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

DEPTH (ft)	PRO-FILE		DEPTH (ft)
		Bituminous Pavement (3 inches) 0.3	
		Natural Aggregate Base: Brown Gravelly Sand with trace silt (21 inches) 2.0	
		Medium Compact Brown Sand with trace silt and gravel	
5		5.0	5
10		Very Stiff Gray Silty Clay with trace sand and gravel	10
15		15.0	15
		End of Boring @ 15 ft	
20			20

SOIL SAMPLE DATA

SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
AS-1					
S-1	10 6 6	12			
S-2	5 7 5	12			
S-3	4 4 6	10	21.9	109	5220
S-4	3 4 6	10	21.8		4000*
S-5	4 5 6	11	22.7		5000*

Total Depth: 15 ft
Drilling Date: January 18, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
Dry during and upon completion of drilling operations

Notes:
Boring performed near 445 Arlington
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

Figure No. 5

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24
SOIL / PAVEMENT BO

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades
Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653
Latitude: N/A Longitude: N/A

Soil Boring No. B-06

CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

DEPTH (ft)	PRO-FILE		DEPTH (ft)
		Bituminous Pavement (6 inches) 0.5	
		Fill: Medium Compact Brown Sand with trace silt, gravel, and brick debris, hydrocarbon odor noted (Organic Matter Content = 0.9%)	
		3.0	
5		Medium Compact Brown Silt with trace clay, sand, and gravel	5
		5.5	
		Medium Compact Gray Silt with trace clay, sand, and gravel	
10			10
		12.0	
		Very Stiff Gray Silty Clay with trace sand and gravel	
15		15.0	15
		End of Boring @ 15 ft	
20			20

SOIL SAMPLE DATA

SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
S-1	10 6 5	11			
S-2	4 5 9	14			
S-3	4 6 9	15			
S-4	6 12 14	26			
S-5	2 5 7	12	19.1		6000*

Total Depth: 15 ft
Drilling Date: January 19, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
3 feet during drilling operations; dry upon completion

Notes:
Boring performed near 700 Arlington
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 6

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24
SOIL / PAVEMENT BO

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-07

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

DEPTH (ft)	PRO-FILE		DEPTH (ft)
		Bituminous Pavement (5 inches) 0.4	
		Natural Aggregate Base: Brown Gravelly Sand with trace silt (13 inches) 1.5	
		Medium Compact Brown and Gray Silty Sand with trace clay and gravel	
		▽ 4.5	
5		Very Stiff Brown Silty Clay with trace sand and gravel	5
		6.0	
10		Very Stiff to Hard Gray Silty Clay with trace sand and gravel	10
15		15.0	15
		End of Boring @ 15 ft	
20			20

SOIL SAMPLE DATA

SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
AS-1					
S-1	12 8 5	13			
S-2	2 2 4	6	22.5		5500*
S-3	6 7 9	16	18.5		9000*
S-4	4 4 7	11	20.2		7000*
S-5	2 5 8	13	20.5		4500*

Total Depth: 15 ft
Drilling Date: January 19, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
4-1/2 feet during drilling operations; dry upon completion

Notes:
Boring performed near 585 Shirley
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 7

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24
SOIL / PAVEMENT BO

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-08

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

- 0.4 ft: Bituminous Pavement (4-1/2 inches)
- 1.2 ft: Natural Aggregate Base: Brown Gravelly Sand with trace silt (9-1/2 inches)
- Hard Brown Silty Clay with trace sand and gravel
- 5.5 ft: Very Stiff to Hard Brown and Gray Silty Clay with trace sand and gravel
- 12.0 ft: Very Stiff Gray Silty Clay with trace sand and gravel
- 15.0 ft: End of Boring @ 15 ft

SOIL SAMPLE DATA

DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
	S-1	7 8 9	17	19.1		8000*
5	S-2	9 10 14	24	18.6		9000*
	S-3	2 7 9	16	22.2		9000*
10	S-4	4 9 11	20	20.5		7000*
15	S-5	3 5 6	11	18.7		5000*
20						

Total Depth: 15 ft
Drilling Date: January 19, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
Dry during and upon completion of drilling operations

Notes:
Boring performed near 898 Arlington
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 8

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24
SOIL / PAVEMENT BC

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road
Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-09

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

- 0.3: Bituminous Pavement (4 inches)
- 1.0: Natural Aggregate Base: Brown Gravelly Sand with trace silt (8 inches)
- 2.5: Fill: Loose Brown Silty Sand with trace gravel
- 5.5: Hard Brown Silty Clay with trace sand and gravel
- 15.0: Very Stiff to Hard Gray Silty Clay with trace sand and gravel
- End of Boring @ 15 ft

SOIL SAMPLE DATA

DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
	AS-1					
	AS-1					
	S-1	6 4 3	7			
5	S-2	4 7 9	16	16.6		9000*
	S-3	6 10 14	24	14.4		9000*
10	S-4	6 9 12	21	15.2		9000*
15	S-5	2 5 7	12	18.5		4500*

Total Depth: 15 ft
Drilling Date: January 19, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
Dry during and upon completion of drilling operations

Notes:
Boring performed near 811 Shirley
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

Figure No. 9

SOIL / PAVEMENT BORING LOG 230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-10

CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

- 0.0: Bituminous Pavement (7-1/4 inches)
- 0.6: Natural Aggregate Base: Brown Gravelly Sand with trace silt (6-3/4 inches)
- 1.2: Fill: Very Stiff Dark Gray and Black Silty Clay with trace sand, gravel, and organic matter, occasional topsoil layers (Organic Matter Content = 2.3%)
- 4.0: Very Stiff to Hard Gray Silty Clay with trace sand and gravel
- 15.0: End of Boring @ 15 ft

SOIL SAMPLE DATA

DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
	AS-1					
	S-1	8 3 4	7	16.6		4000*
5	S-2	3 4 6	10	19.7		5500*
	S-3	4 6 10	16	16.3		9000*
10	S-4	3 6 10	16	16.9		9000*
15	S-5	3 6 7	13	18.5		4000*
20						

Total Depth: 15 ft
Drilling Date: January 19, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
Dry during and upon completion of drilling operations

Notes:
Boring performed near 1057 Arlington
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 10

230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24
SOIL / PAVEMENT BO

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No. 230653

Latitude: N/A Longitude: N/A

Soil Boring No. B-11

G2 CONSULTING GROUP

SUBSURFACE PROFILE

GROUND SURFACE ELEVATION: N/A

- 0.4: Bituminous Pavement (4-1/4 inches)
- 1.0: Crushed Limestone Aggre gate Base: Gray Sand and Gravel with little silt (7-3/4 inches)
- Fill: Very Stiff to Hard Dark Brown and Gray Silty Clay with trace sand, gravel, and organic matter (Organic Matter Content: S-1 = 1.7%, S-2 = 6.6%)
- 5.5: Very Stiff to Hard Brown and Gray Silty Clay with trace sand, occasional silt partings
- 15.0: End of Boring @ 15 ft

SOIL SAMPLE DATA

DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
	AS-1					
	S-1	8 5 6	11	22.5		9000*
5	S-2	3 4 5	9	30.2		5000*
	S-3	2 3 6	9	15.3		9000*
10	S-4	6 6 11	17	14.3		6000*
15	S-5	3 6 6	12	17.0		9000*
20						

Total Depth: 15 ft
Drilling Date: January 19, 2024
Inspector:
Contractor: Triple R Drilling
Driller: R. Rau

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Water Level Observation:
Dry during and upon completion of drilling operations

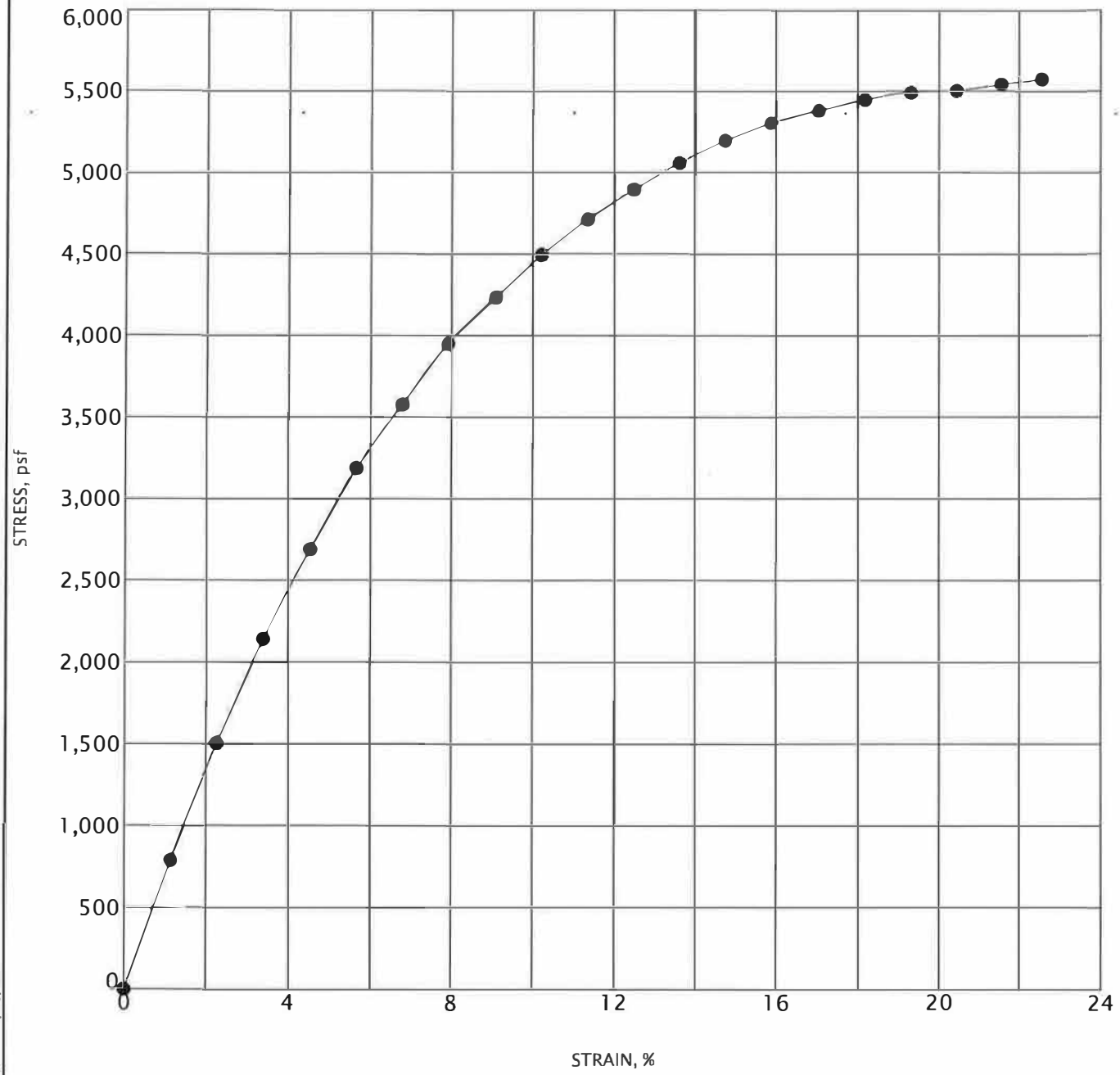
Notes:
Boring performed on Shirley, north of W Lincoln Street
* Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
Auger cuttings and capped with cold patch

8F

Figure No. 11

SOIL / PAVEMENT BORING LOG 230653.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24



	Specimen	Classification	MC%	γ_d	UC
●	B-05 S-3	Gray Silty Clay	22	109	5220

CONSULTING GROUP

UNCONFINED COMPRESSIVE STRENGTH TEST

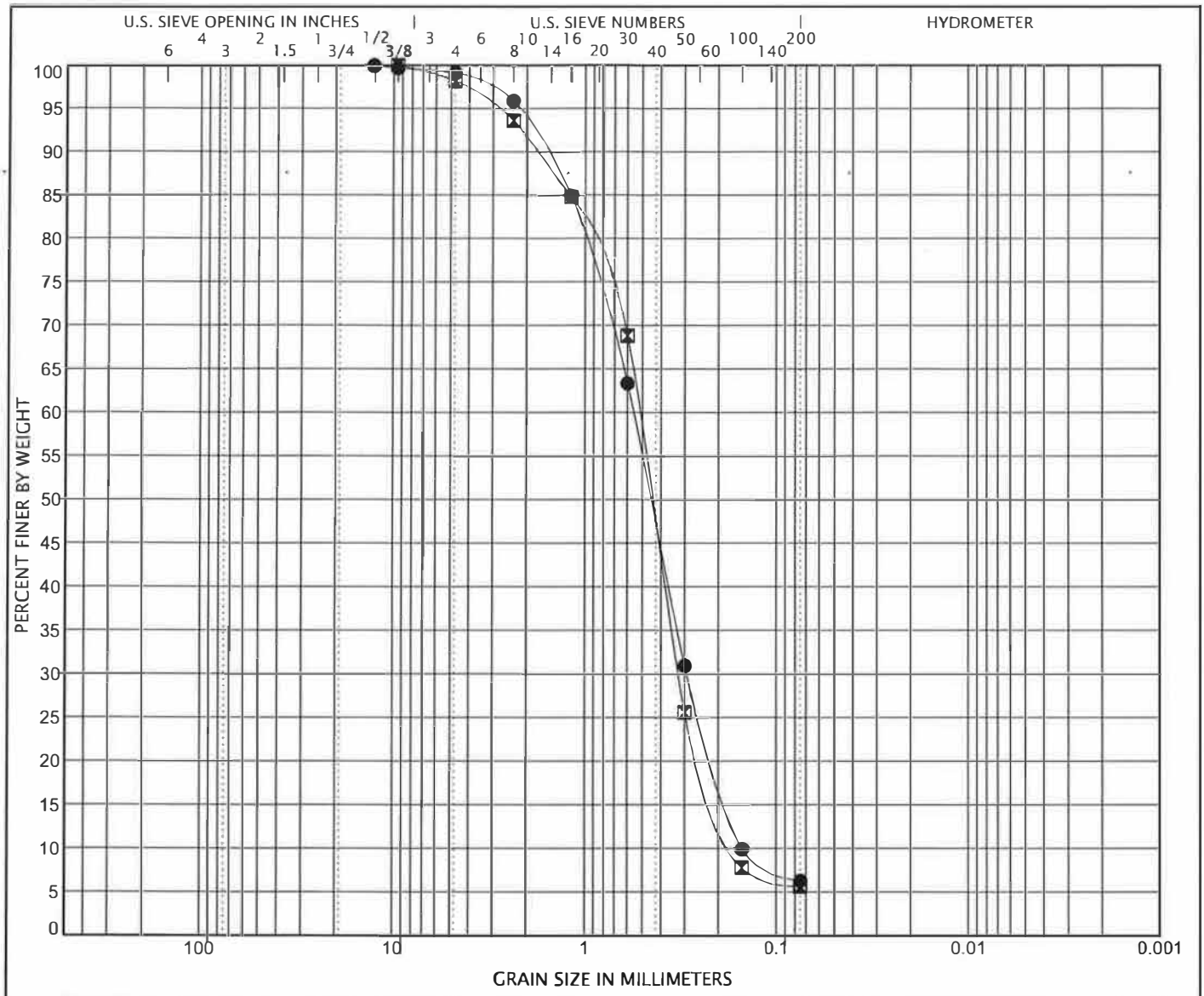
Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No.: 230653

Figure No. 12

US_UNCONFINED 230653.GPJ 20140820 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen ID		Description	LL	PL	PI	Cc	Cu
●	B-01	S-3	Brown Sand with trace silt				1.0	3.7
⊠	B-03	S-4	Brown Sand with trace silt and gravel				1.2	3.2

	Specimen ID		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	B-01	S-3	12.7	0.558	0.291	0.15	0.8	92.9	6.3	
⊠	B-03	S-4	9.525	0.521	0.322	0.163	1.8	92.6	5.6	

CONSULTING GROUP

GRAIN SIZE DISTRIBUTION

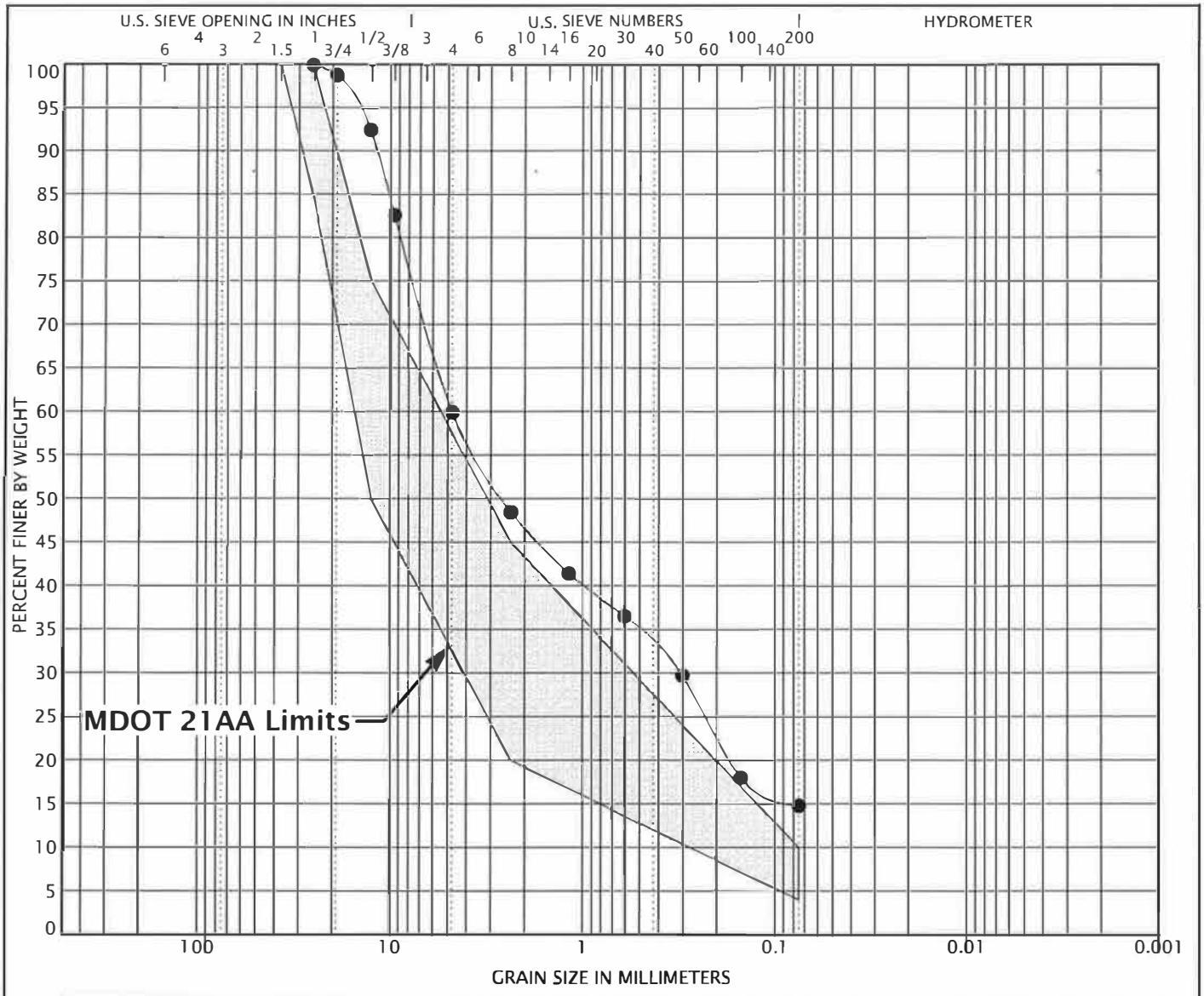
Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No.: 230653

Figure No. 13

US_GRAIN_SIZE 230653.GPJ 20140820 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen ID	Description	LL	PL	PI	Cc	Cu
● B-11 AS-1	Gray Sand and Gravel with little silt					

Specimen ID	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B-11 AS-1	25.4	4.752	0.308		40.0	45.2	14.8	

G2 CONSULTING GROUP

GRAIN SIZE DISTRIBUTION

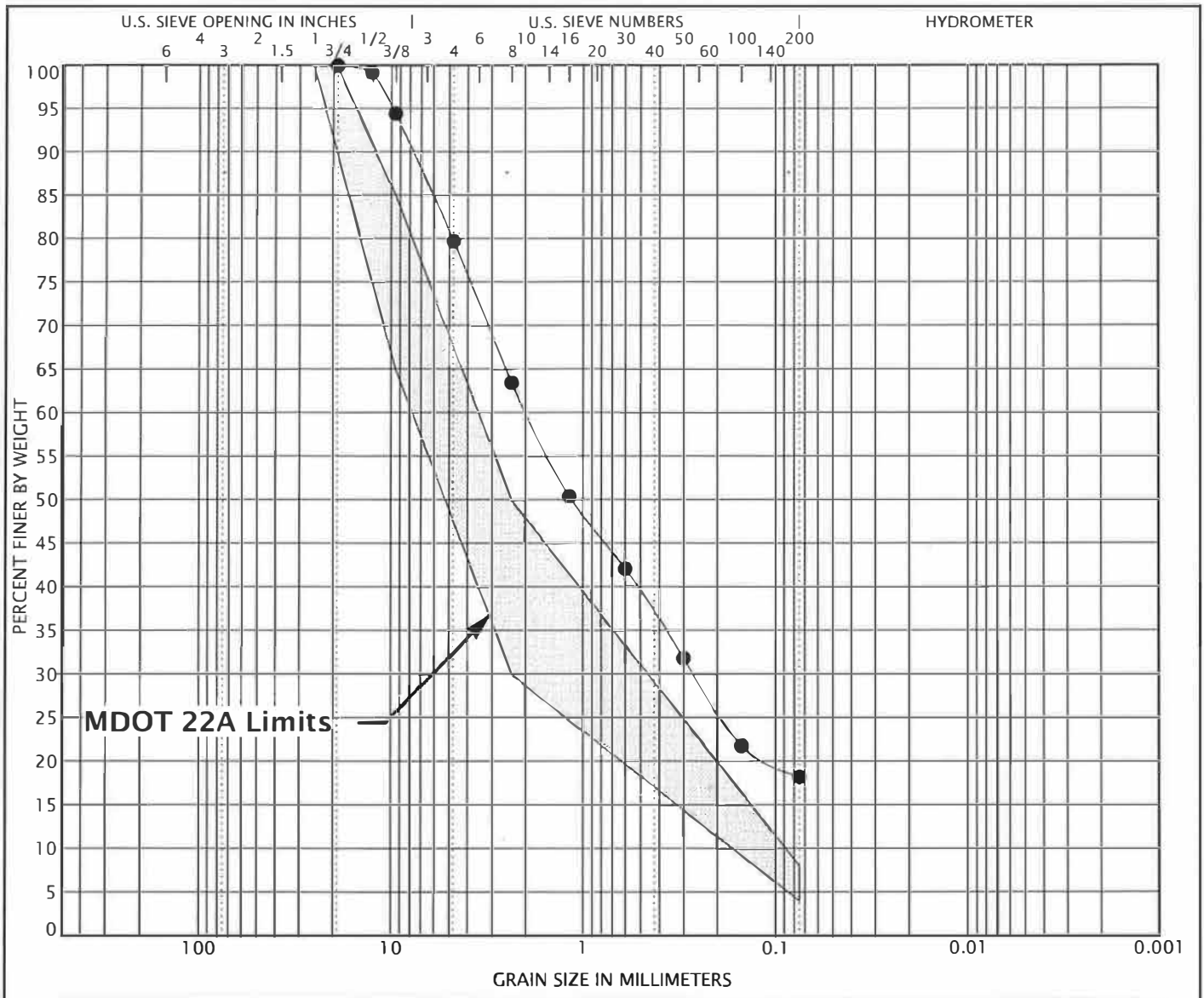
Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No.: 230653

Figure No. 14

US_GRAIN_SIZE_MDOT_21AA 230653.GPJ 20140820 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen ID	Description	LL	PL	PI	Cc	Cu
●	B-05 AS-1	Brown Gravelly Sand with little silt					

	Specimen ID	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	B-05 AS-1	19.05	1.964	0.264		20.3	61.5	18.2	

CONSULTING GROUP

GRAIN SIZE DISTRIBUTION

Project Name: Arlington Street and Shirley Drive Water Main and Sewer Upgrades

Project Location: W. Lincoln Road to W. Maple Road Birmingham, Michigan

G2 Project No.: 230653

Figure No. 15

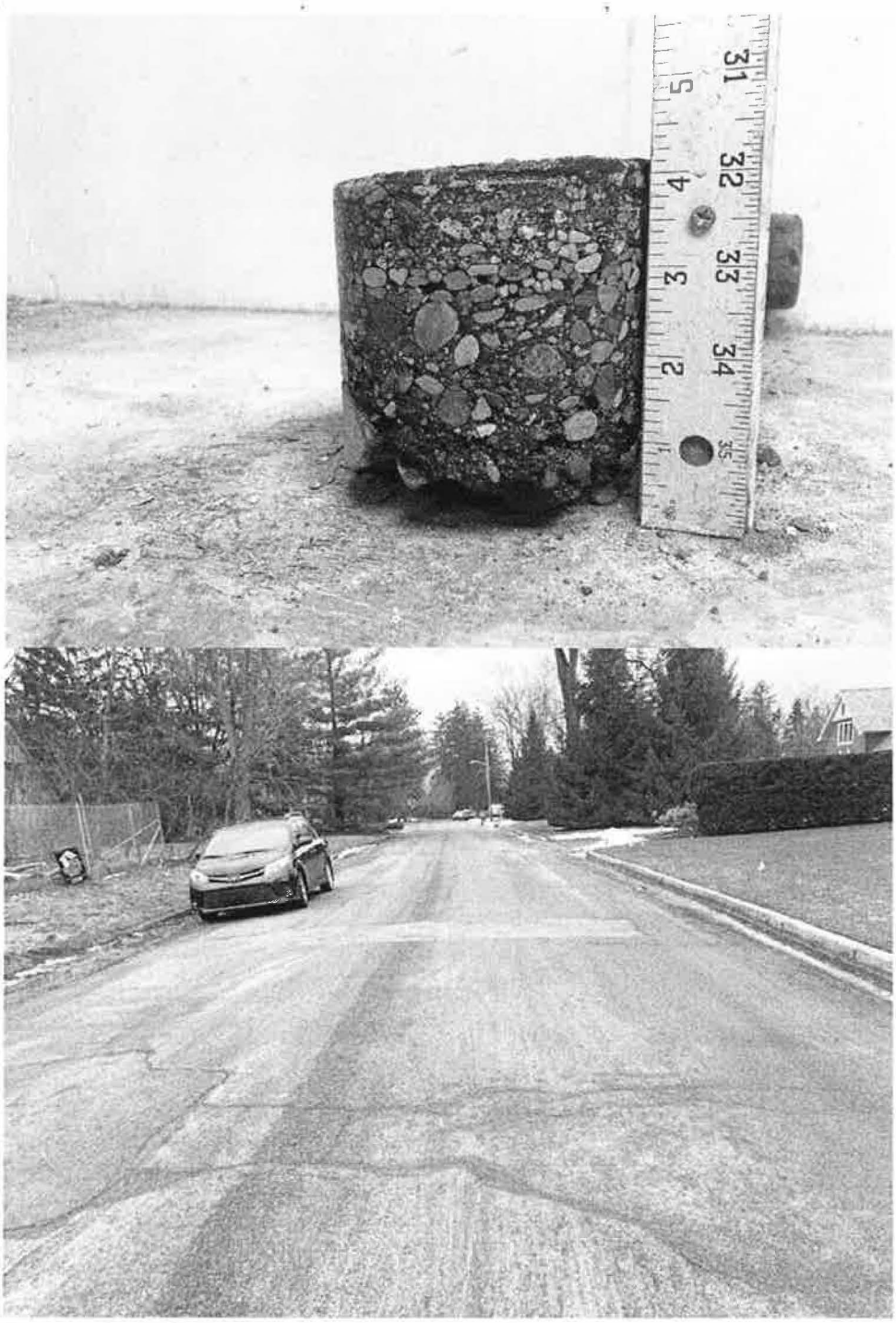
US_GRAIN_SIZE_MDOT_22A 230653.GPJ 20140820 G2 CONSULTING DATA TEMPLATE.GDT 2/28/24

Photograph at Boring B-01: Bituminous Pavement = 4-1/2 inches

Figure No. 16

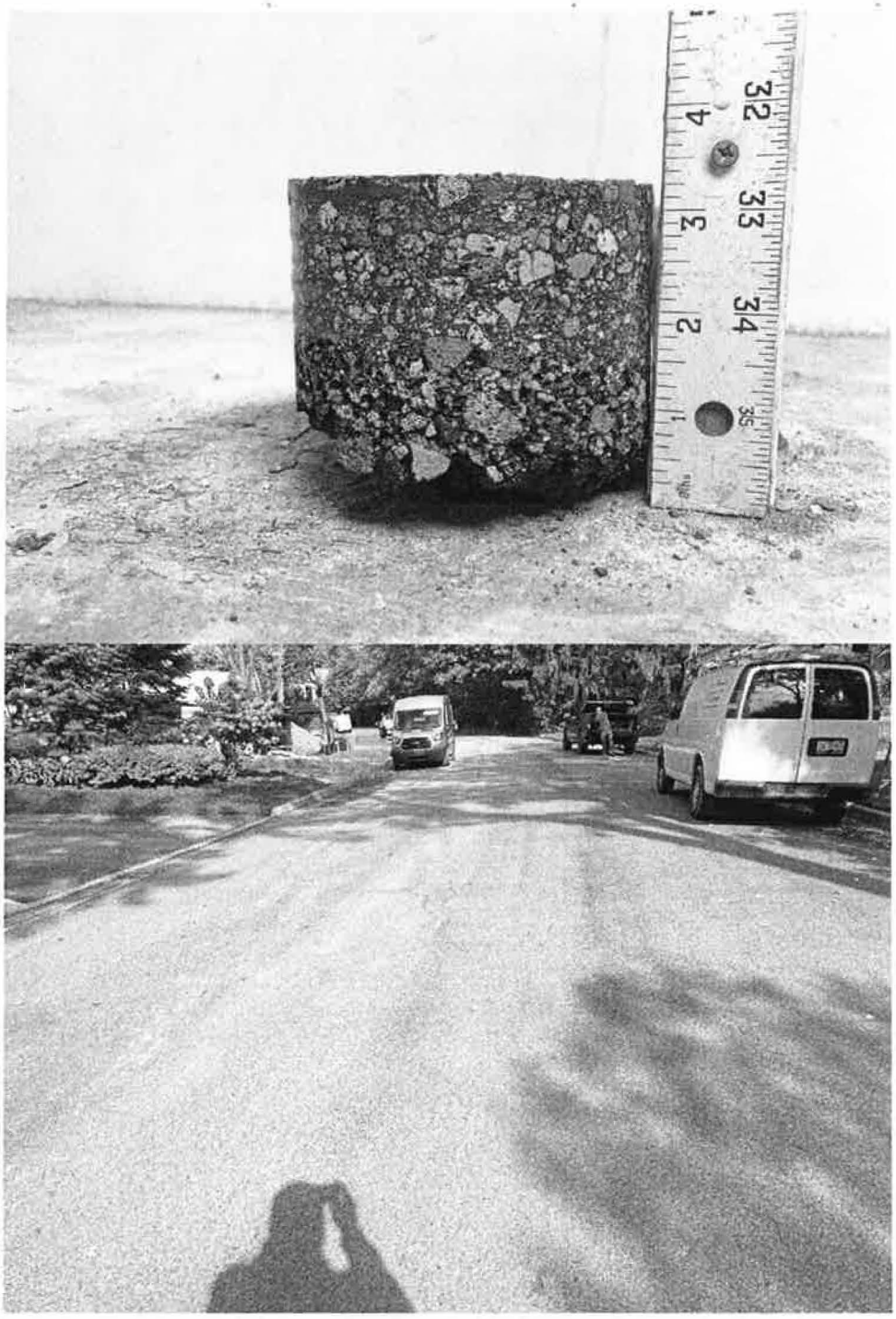
Photograph at Boring B-02: Bituminous Pavement = 4-1/4 inches

Figure No. 17



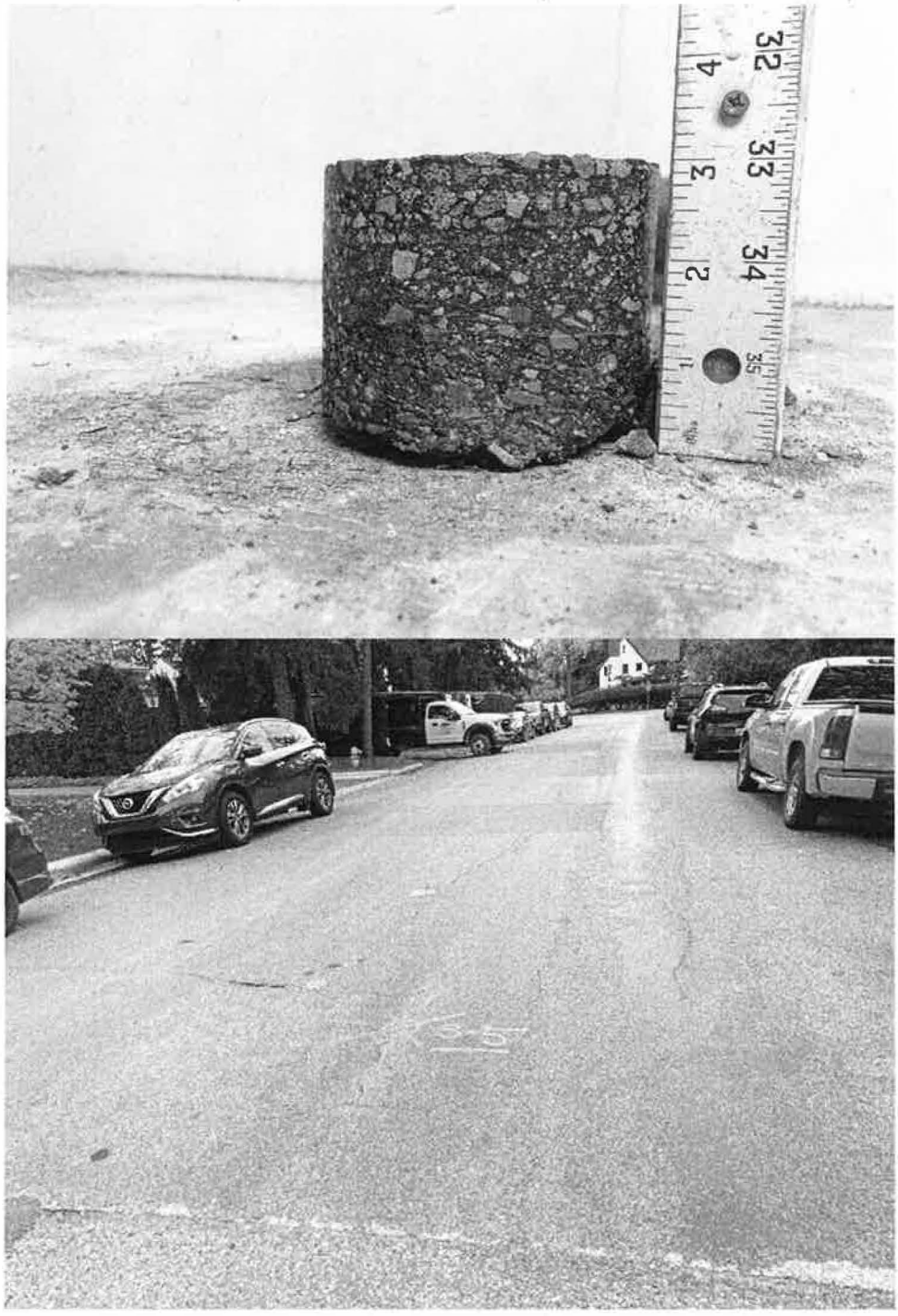
Photograph at Boring B-03: Bituminous Pavement = 4-1/4 inches

Figure No. 18



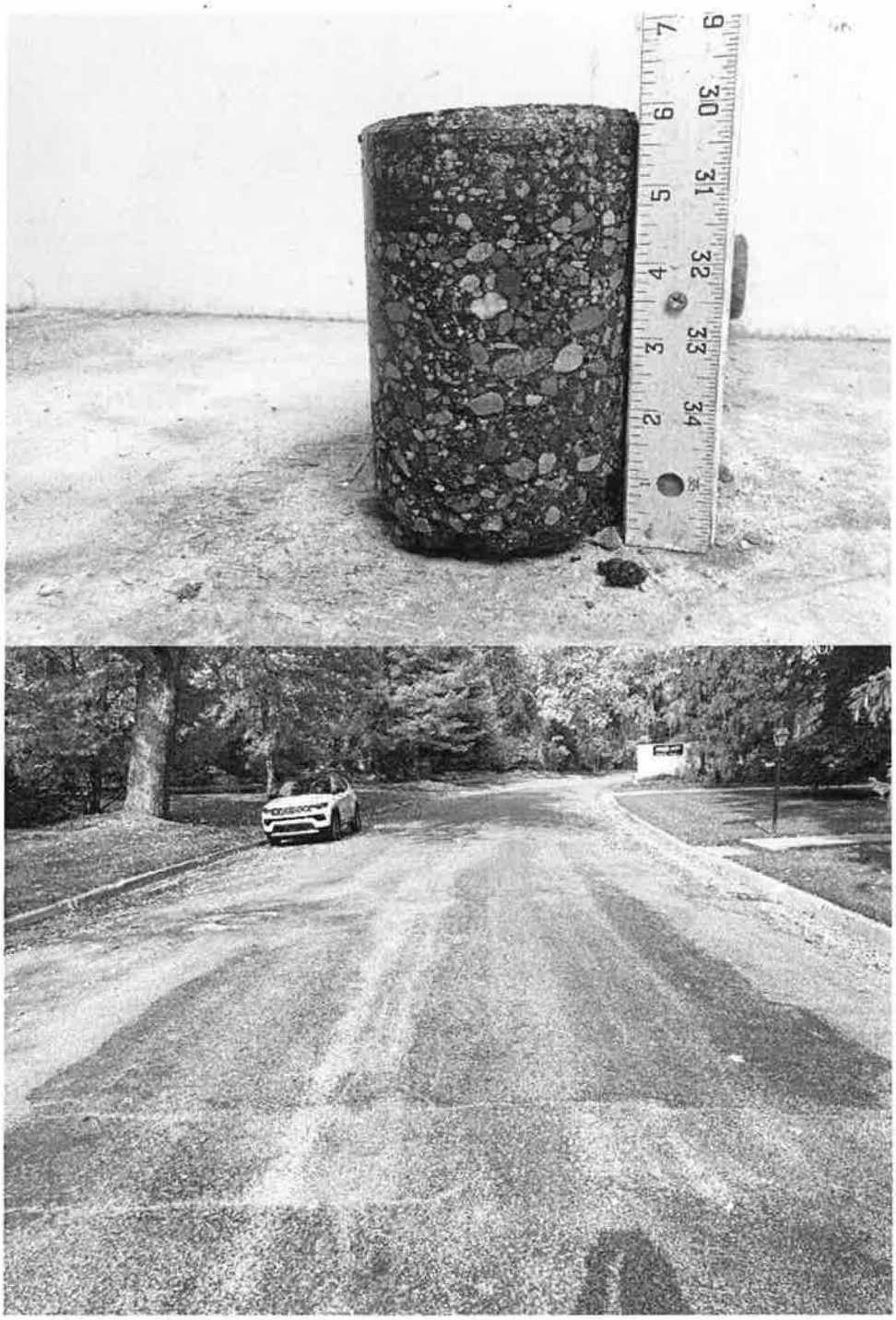
Photograph at Boring B-04: Bituminous Pavement = 3-1/4 inches

Figure No. 19



Photograph at Boring B-05: Bituminous Pavement = 3 inches

Figure No. 20



Photograph at Boring B-06: Bituminous Pavement = 6 inches

Figure No. 21

Photograph at Boring B-07: Bituminous Pavement = 5 inches

Figure No. 22

Photograph at Boring B-08: Bituminous Pavement = 4-1/2 inches

Figure No. 23

Photograph at Boring B-09: Bituminous Pavement = 4 inches

Figure No. 24

Photograph at Boring B-10: Bituminous Pavement = 7-1/4 inches

Figure No. 25

Photograph at Boring B-11: Bituminous Pavement = 4-1/4 inches

Figure No. 26

CONSULTING GROUP

GENERAL NOTES TERMINOLOGY

Unless otherwise noted, all terms herein refer to the Standard Definitions presented in ASTM 653.

PARTICLE SIZE

Boulders		- greater than 12 inches
Cobbles		- 3 inches to 12 inches
Gravel	- Coarse	- 3/4 inches to 3 inches
	- Fine	- No. 4 to 3/4 inches
Sand	- Coarse	- No. 10 to No. 4
	- Medium	- No. 40 to No. 10
	- Fine	- No. 200 to No. 40
Silt		- 0.005mm to 0.074mm
Clay		- Less than 0.005mm

CLASSIFICATION

The major soil constituent is the principal noun, i.e. clay, silt, sand, gravel. The second major soil constituent and other minor constituents are reported as follows:

Second Major Constituent (percent by weight)	Minor Constituent (percent by weight)
Trace - 1 to 12%	Trace - 1 to 12%
Adjective - 12 to 35%	Little - 12 to 23%
And - over 35%	Some - 23 to 33%

COHESIVE SOILS

If clay content is sufficient so that clay dominates soil properties, clay becomes the principal noun with the other major soil constituent as modifier, i.e. sandy clay. Other minor soil constituents may be included in accordance with the classification breakdown for cohesionless soils, i.e. silty clay, trace sand, little gravel.

Consistency	Unconfined Compressive Strength (psf)	Approximate Range of (N)
Very Soft	Below 500	0 - 2
Soft	500 - 1,000	3 - 4
Medium	1,000 - 2,000	5 - 8
Stiff	2,000 - 4,000	9 - 15
Very Stiff	4,000 - 8,000	16 - 30
Hard	8,000 - 16,000	31 - 50
Very Hard	Over 16,000	Over 50

Consistency of cohesive soils is based upon an evaluation of the observed resistance to deformation under load and not upon the Standard Penetration Resistance (N).

COHESIONLESS SOILS

Density Classification	Relative Density %	Approximate Range of (N)
Very Loose	0 - 15	0 - 4
Loose	16 - 35	5 - 10
Medium Compact	36 - 65	11 - 30
Compact	66 - 85	31 - 50
Very Compact	86 - 100	Over 50

Relative Density of cohesionless soils is based upon the evaluation of the Standard Penetration Resistance (N), modified as required for depth effects, sampling effects, etc.

SAMPLE DESIGNATIONS

AS - Auger Sample – Cuttings directly from auger flight
BS - Bottle or Bag Samples
S - Split Spoon Sample - ASTM D 1586
LS - Liner Sample with liner insert 3 inches in length
ST - Shelby Tube sample - 3 inch diameter unless otherwise noted
PS - Piston Sample - 3 inch diameter unless otherwise noted
RC - Rock Core - NX core unless otherwise noted

STANDARD PENETRATION TEST (ASTM D 1586) - A 2.0 inch outside-diameter, 1-3/8 inch inside-diameter split barrel sampler is driven into undisturbed soil by means of a 140-pound weight falling freely through a vertical distance of 30 inches. The sampler is normally driven three successive 6-inch increments. The total number of blows required for the final 12 inches of penetration is the Standard Penetration Resistance (N).

Figure No. 27

APPENDIX – B

Alternate #1 sketch

"Rouge River outfall"

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 06/25/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	**CONTACT NAME:** Laura Jones
Ironwood, a Marsh & McLennan Agency, LLC Co	**PHONE (A/C, No, Ext):** (404) 503-9100 **FAX (A/C, No):** (404) 503-9101
4401 Northside Parkway NW	**E-MAIL ADDRESS:** ljones@ironwoodins.com
Suite 800	
Atlanta GA 30327	

INSURER(S) AFFORDING COVERAGE	**NAIC #**
INSURER A: The Phoenix Insurance Company	25623
INSURER B: Travelers Casualty Co. of Connecticut	36170
INSURER C: Travelers Prop. Casualty Co of America	25674
INSURER D: Travelers Indemnity Co of America	25666
INSURER E: Certain Underwriters at Lloyd's of London	
INSURER F: Arch Insurance Company	11150

INSURED
DiPonio Contracting, LLC
51251 Simone Industrial Dr.
Shelby Township MI 48316

COVERAGES **CERTIFICATE NUMBER:** 24/25 Master **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:	Y		CO-7X878104	03/31/2024	03/31/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG Employee Benef. Liab.	$ 1,000,000 $ 500,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $ 1M/$2M
B	**AUTOMOBILE LIABILITY** [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY	Y		810-7X880622	03/31/2024	03/31/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ $ $ $
C	[X] **UMBRELLA LIAB** [X] OCCUR [ ] **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000	Y		CUP-8X482562	03/31/2024	03/31/2025	EACH OCCURRENCE AGGREGATE 	$ 5,000,000 $ 5,000,000 $
D	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB-7X950641	03/31/2024	03/31/2025	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: Arlington Road & Shirley Drive Watermain Project- Contract #9-24W, City of Birmingham, Michigan, NFE Project #N758

The City of Birmingham, including all elected and appointed officials, all employees and volunteers, all boards, commissions and/or authorities and board members, including employees, consultants, and volunteers thereof are included as additional insured for the General Liability, Automobile Liability and Umbrella policies with respect to the liability resulting from the operations of the Named Insured as required by written contract.
Thirty (30) days Advance Written Notice of Cancellation or Non-Renewal, except 10 days for non-payment, shall be sent to the Finance Department, City of Birmingham, P.O. Box 3001, 151 Martin Street, Birmingham, Michigan 48012 for General Liability, Auto Liability, Workers Compensation and Umbrella

CERTIFICATE HOLDER

City of Birmingham
151 Martin St.
Birmingham MI 48012

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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AGENCY CUSTOMER ID: 00015037

LOC #:

ADDITIONAL REMARKS SCHEDULE

Page ____ of ____

AGENCY	NAMED INSURED
Ironwood, a Marsh & McLennan Agency, LLC Co	DiPonio Contracting, LLC
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

coverage as required by written contract and per policy terms, conditions and exclusions. General Liability coverage provided is primary and non-contributory with respect to any similar insurance held by the additional insured as required by written contract.

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AGENCY CUSTOMER ID: _____

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
Ironwood, a Marsh & McLennan Agency, LLC Co	DiPonio Contracting, LLC
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 **FORM TITLE:** Certificate of Liability Insurance: Notes

Insurer E:

Cyber Liability
Certain Underwriter at Lloyd's of London
Policy Number ESM0039911166
Effective 3/31/2024- 3/31/2025
$1,000,000 Aggregate Limit

Insurer F:

D&O/EPLI/Crime-
Arch Insurance Company
Policy Number PCD1006608-00
Effective 3/31/2024- 3/31/2025
D&O- $3,000,000 Aggregate Limit
EPLI- $3,000,000 Aggregate Limit
Fiduciary Liability- $1,000,000 Aggregate Limit
Crime- $1,000,000 Limit- $10,000 Retention

Insurer G:

Contractors Errors & Omissions & Pollution Incident
Columbia Casualty Company
Policy Number CEO591969089
Effective 3/31/2024- 3/31/2025
$1,000,000 Limit

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 06/20/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ironwood, a Marsh & McLennan Agency, LLC Co 4401 Northside Parkway NW Suite 800 Atlanta GA 30327	**CONTACT NAME:** Laura Jones **PHONE (A/C, No, Ext):** (404) 503-9100 **FAX (A/C, No):** (404) 503-9101 **E-MAIL ADDRESS:** laura.t.jones@marshmma.com
INSURED DiPonio Contracting, LLC 51251 Simone Industrial Dr. Shelby Township MI 48316	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** Travelers Prop. Casualty Co of America / 25674 **INSURER B :** **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 24/25 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] Owner's & Contractors Prot. Liab. GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER			PRS-8J95829A-IND	06/17/2024	06/17/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG [ ]	$ 3,000,000 $ $ $ $ 3,000,000 $ $
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY [ ]						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) [ ]	$ $ $ $ $
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE [ ]	$ $ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A					[ ] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: Arlington Road & Shirley Drive Watermain Project-Contract #9-24W, City of Birmingham, MI
NFE Project #N758
Value: $4,553,882
Duration: 7/8/2024- 7/8/2025

City of Birmingham is listed as a Name Insured.

CERTIFICATE HOLDER

City of Birmingham
151 Martin St.
Birmingham MI 48009

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Planning Department

DATE: June 24, 2024

TO: Jana L. Ecker, City Manager

FROM: Nicholas Dupuis, Planning Director

SUBJECT: The Birmingham Plan 2040 – Prioritization of Key Actions

INTRODUCTION:
The Planning Board has created a prioritization matrix of the recommendations in The Birmingham Plan 2040 and have organized them according to the board/commission that is best suited to start each project. Although the Planning Board has the authority to advise the City Commission and carry out the goals, objectives and intent of the city's adopted master plan, it does not have the authority to assign duties to other boards/commissions. Thus, the Planning Board and Planning Department are requesting that the City Commission assign each prioritization matrix to the corresponding board/commission. In addition, to authorize the Planning Board to provide oversight of the prioritization matrices, with the understanding that the Planning Board would provide annual updates to the City Commission of progress and any changes.

BACKGROUND:
On May 22, 2023 (Agenda – Minutes), the City Commission moved to adopt and approve in its entirety the Birmingham Plan 2040, inclusive of all maps, plats, charts, and other related matter, figures and the Future Land Use Map.

Once a master plan is adopted, the City is tasked with prioritizing and considering the recommendations of the plan through in-depth reviews. Within the Birmingham Plan 2040 ("2040 Plan"), the consultants consolidated and categorized nearly 130 recommendations located throughout the plan into 33 key actions. The consultants then prioritized the key actions based on their assessment of need and time horizon. Over a series of 4+ months, the Planning Board reviewed these recommendations and adjusted them to meet current needs, as well as organized them into different categories that aligned with the duties and regular work of other board/commissions.

On June 10, 2024 (Agenda), the Planning Board and City Commission held a joint meeting in which the prioritization matrices were discussed and the Planning Board informed of their intentions to bring this to the City Commission as a formal agenda item in the near future.

LEGAL REVIEW:
The City Attorney has no objections to the proposed Commission suggested action.

FISCAL IMPACT:
Not applicable.

SUSTAINABILITY:
Not applicable.

DESIGN CONSIDERATIONS:
Not applicable.

PUBLIC COMMUNICATIONS:
There are no public communications required for this agenda item. Any future public communication related to the implementation of The Birmingham Plan 2040 will be done in accordance with state and local ordinances.

SUMMARY:
The Planning Board and Planning Department request that the City Commission consider assigning each prioritization matrix to the corresponding board/commission. In addition, to authorize the Planning Board to provide oversight of the prioritization matrices, with the understanding that the Planning Board would provide annual updates to the City Commission of progress and any changes.

ATTACHMENTS:
Please see attached the following documents:

- Prioritization Matrices (June 2024)

SUGGESTED COMMISSION ACTION:
Make a motion adopting a resolution to assign each prioritization matrix to the Birmingham 2024 Plan to the corresponding board/commission. In addition, to authorize the Planning Board to provide oversight of the prioritization matrices, with the understanding that the Planning Board would provide annual updates to the City Commission of progress and any changes.

Planning Board

Type	Title	Description	Where	In Progress	Notes
Policy	Zoning Code Update	Update the zoning code. The following goals are provided greater detail within the chapters listed. See additional goals under “Best Practice Recommendations” in the “Update the Zoning Code” section.	-	☐	
	Comprehensive	Focus on brevity, clarity, graphics, and aligning zones with Future Land Use categories.	2	☐	
		Consolidate zones and uses as much as is practical and ensure the updated document is legible, clear, and predictable	2	☐	
		Extend D2 zoning to the multi-family properties along the west side of Old Woodward up to Quarton.	4	☐	
		Modify the MX District to enable the urban development envisioned for the Rail District.	4	☐	
		Develop an Overlay Zoning District for the Lower Rail District that permits the existing, but somewhat improved condition to persist for the area south of Palmer Street.	4	☐	
		Create a zoning district to enable neighborhood destinations.	1	☐	
		Reduce the amount of open space required per unit for townhomes and multi-family.	2	☐	
		Adjust residential zone boundaries and standards to better match existing housing. Including a study of the city’s residential architectural styles and building types, their key characteristics, position on their properties, driveway configuration, age, and the areas where each common type is located.	3	☐	
		Review and update site, building, and design codes to prevent increased rainwater runoff and other negative impacts from new house construction.	3	☐	
		Consider age-in-place-friendly building regulations, such as grab-bars, ramps, and elevators in single family homes, with careful attention paid to the city’s architectural heritage.	3	☐	
		Address neighborhood lighting standards, including exterior residential lighting intensity and color temperature. See the International Dark Sky Association recommended standards.	3	☐	
	Further Study	Create a new zoning district or modify the transition zone districts to enable infill development of small homes, townhomes, duplexes, and small multi-family buildings, limited to buffer and activity district seams.	2	☐	
		Develop storefront design, signage, and other standards to retain the small-scale business character of Market North.	4	☐	
		Enable Accessory Dwelling Units (ADUs) in already compatible zones: MX, TZ1, TZ3, and R4 through R8. Study ADUs for additional locations within the city and the regulations necessary to ensure compatibility.	2	☐	
		Create subdivision and zoning standards to encourage redevelopment of the Adam’s Square shopping center.	1	☐	
		Establish zoning standards to encourage redevelopment of South Woodward Gateway properties.	4	☐	
		Establish zoning standards to enable Neighborhood Sleeves in the South Woodward Gateway	4	☐	
		Establish zoning standards to enable shared-use alleys, particularly in the South Woodward Gateway.	4	☐	

		Incentivize South Woodward Gateway redevelopment through increased zoning capacity, permitting housing, and reduced parking requirements.	4	☐	
New Plans	Woodward Safety & Beautification Plan	Create a Woodward Safety and Beautification Plan. The following goals are provided greater detail within the chapters listed.	-	☐	(This section shared with MMTB & City Commission)
		Improve Woodward crossings following best practices for pedestrians and cyclists.	1	☐	
		Study lane reduction and re-striping options for Woodward.	1	☒	
		Pursue a speed reduction on Woodward through legislative means.	1	☐	
		Plant a full and consistent tree canopy along the Woodward median throughout Birmingham, beginning with the northern and southern entries.	4	☐	
		Adjust Elm to meet Woodward perpendicularly.	1	☒	
		Adjust Worth to meet Woodward perpendicularly.	1	☐	
New Plans	Woodward Gateways Plan	Create a Woodward Gateways Plan to comprehensively address the three gateway areas along Woodward.	-	☐	(This section shared with City Commission)
		Revisit and adopt plan components for the South Woodward Gateway Plan.	1, 4	☐	
		Create plan components for a North Woodward Gateway, including the future use of public land.	1, 4	☐	
		Create plan components a Downtown Gateway Plan for the Big Woodward and Maple intersection.	1	☐	
New Plans	Haynes Square Plan	Create a Haynes Square Plan which provides the details, timing, and funding for implementing Haynes Square recommendations.	1	☐	
New Plans	North Old Woodward Streetscape	Develop a streetscape plan along North Old Woodward, up to Big Woodward, with a focus on adding on-street parking and pedestrian and bicycle amenities and improving safety	4	☐	
New Plans	Mixed-use Streetscape Plan	Create a streetscape improvement plan for the Triangle District and Rail District.	1	☐	
New Plans	Tree Canopy Improvement Plan	Create a Tree Canopy Improvement Plan. The following goals are provided greater detail within Chapter 3.	-	☐	
		Establish comprehensive policies for trees in streets and open spaces.	3	☐	

Sustainability Board*

Type	Title	Description	Where	In Progress	
Policy	Zoning Code Update	Update the zoning code. The following goals are provided greater detail within the chapters listed. See additional goals under "Best Practice Recommendations" in the "Update the Zoning Code" section.	-	☐	
	Comprehensive	Advance building sustainability in new construction, especially within the City's mixed-use districts and for municipal buildings.	5	☐	
Programs & Boards	Sustainability Board	Establish a Sustainability Board to oversee the recommendations of this plan section and other future sustainability initiatives.	5	☒	
New Plans	Green Infrastructure	Create a Green Infrastructure Plan to address stormwater run-off and areas experiencing regular flooding.	5	☐	
New Plans	Sustainability Action Plan	Create a Sustainability Action Plan. The following goals are provided greater detail within chapter 5.	-	☒	
		Reduce environmental impacts of municipal operations	5	☐	
		Incentivize green building, renewable energy, and green landscaping.	5	☐	
		Expand recycling and composting	5	☐	
		Implement green stormwater practices in streets and parks.	5	☐	
		Support Rouge River Natural Area improvements.	5	☐	
		Implement other sustainability focused recommendations of this plan.	5	☐	
		Create a Hazard Mitigation Plan addressing the City's future climate	5	☐	
		Increase inter-governmental cooperation around sustainability initiatives.	5	☐	
		Study the best path towards encouraging or requiring businesses reduce plastic and Styrofoam use.	5	☐	
New Plans	Rouge River Restoration Plan	Develop a plan to improve and maintain the Rouge River natural area. The following goals are provided greater detail within chapter 5.	-	☐	
		Inventory and analyze the Rouge corridor's wildlife, ecology, natural systems, and pollution sources.	5	☐	
		Stabilize riverbanks, remove invasive species, reintroduce native ground covers, wildflowers, under-story, and canopy tree species.	5	☐	
		Mitigate potential pollution or chemical sources, including the existing Springdale snow storage dumping area.	5	☐	
		Work with area organizations and agencies to oversee, build support, and raise funding for the park's enhancements.	5	☐	
		Work with other area and regional organizations and communities to improve the quality of the Rouge River watershed.	5	☐	
New Plans	Tree Canopy Improvement Plan	Create a Tree Canopy Improvement Plan. The following goals are provided greater detail within Chapter 3.	-	☐	
		Create 5-, 10-, and 15- year goals to expand tree canopy cover.	3	☐	

		Study the condition of neighborhood tree canopies in parks and private spaces and potential improvements.	3	☐	
		Require that trees removed due to construction be replaced, as well as mandatory contributions to fund new off-site trees.	3	☐	
		Prevent existing, healthy trees from being removed due to new construction.	3	☐	
		Survey areas with constrained root area and establish a plan to add additional soil volume.	3	☐	

*Although a formal Sustainability Board does not exist at this time, the Ad Hoc Environmental Sustainability Committee will consider many of these key actions in their Sustainability and Climate Action Plan, and the rest may be considered by a future formal Sustainability Board.

Multi-Modal Transportation Board

Type	Title	Description	Where	In Progress	Notes
Policy	Zoning Code Update	Update the zoning code. The following goals are provided greater detail within the chapters listed. See additional goals under “Best Practice Recommendations” in the “Update the Zoning Code” section.	-	☐	
	Comprehensive	Adopt a policy requiring a minimum 6 foot clear path along the sidewalk throughout mixed-use districts.	4	☐	
New Plans	Woodward Safety & Beautification Plan	Create a Woodward Safety and Beautification Plan. The following goals are provided greater detail within the chapters listed.	-	☐	(This section shared with City Commission & Planning Board)
		Improve Woodward crossings following best practices for pedestrians and cyclists.	1	☐	
		Study lane reduction and re-striping options for Woodward.	1	☒	
		Pursue a speed reduction on Woodward through legislative means.	1	☐	
		Plant a full and consistent tree canopy along the Woodward median throughout Birmingham, beginning with the northern and southern entries.	4	☐	
		Adjust Elm to meet Woodward perpendicularly.	1	☒	
		Adjust Worth to meet Woodward perpendicularly.	1	☐	
New Plans	Mixed-use Districts Parking Plan	Create a Mixed-use Districts Parking Plan. The following goals are provided greater detail within the chapters listed.	-	☐	
		Study bike parking and electric vehicle charging stations in garages.	4	☐	
Policy	Residential Street Standards	Update the Residential Street Standards, aligning the streetscape elements with Future Land Use categories. Update the Multi-modal Plan accordingly.	3	☐	
		Lower the posted speed on streets throughout town as much as possible.	3	☐	
Policy	Mixed-use District Streets	Adopt a policy requiring a minimum 6-foot clear path along the sidewalk be retained throughout mixed-use districts.	4	☐	
Existing Plan Updates	Multi-modal Plan Update	Update the Multi-modal Plan. The following goals are provided greater detail within the chapters listed. See additional goals under headings “Multimodal Plan Updates” and “Best Practice Recommendations for the Multimodal Plan” in Chapters 1 and 4.	-	☐	
		Address increased pedestrian activity anticipated in mixed-use districts that will grow in residential population.	1	☐	
		Support increased pedestrian activity on both sides of North Old Woodward and provide streetscape amenities.	4	☐	
		Complete gaps in sidewalks, add accessible corner ramps where not already specified, and replace street trees which are displaced by the process.	3	☐	
		Address recent experiences with increased outdoor dining.	1, 4	☐	
		Ensure bicycle facilities are protected on all streets posted at or above 35mph.	1	☐	
		Study bicycle accommodation alternatives along Lincoln.	3	☐	

		Include mobility routes based upon bicycle boulevard practices.	1	☐	
		Implement additional transportation mode best practices for new mobility technology and modes such as micro EVs, golf carts, and micro-mobility.	1	☐	
		Improve the conditions at bus stops along more major roads.	1	☐	
		Add Electric Vehicle charging stations throughout the city at garages, public parking lots, and on-street in Mixed-use Districts.	5	☐	
		Adopt a policy regulating street lighting, including intensity, color temperature, luminaire, and pole height and frequency.	3	☐	
		Include a public education component.	1	☐	
Existing Plan Updates	Eton Road Corridor Plan	Update the Eton Road Corridor Plan. The following goals are provided greater detail within Chapter 4.	-	☐	
		Increase connectivity for pedestrians, bikes, and cars for the area south of Hazel Street including future rail crossings.	4	☐	
		Provide access to the Troy Transit Center and consider the development of surrounding properties.	4	☐	
Studies	Circulator	Study a public circulator to provide viable means of accessing mixed-use districts and other significant destinations without a car.	1	☐	

City Commission

Type	Title	Description	Where	In Progress	Notes
Policy	Zoning Code Update*	Update the zoning code. The following goals are provided greater detail within the chapters listed. See additional goals under "Best Practice Recommendations" in the "Update the Zoning Code" section.	-	☐	
	Further Study	Encourage renovations to expand existing houses rather than the construction of new houses.	3	☐	
	Further Study	Allow cafes, food trucks, carts, and kiosks in parks (currently the Public Property district).	1	☐	
New Plans	Woodward Safety & Beautification Plan	Create a Woodward Safety and Beautification Plan. The following goals are provided greater detail within the chapters listed.	-	☐	(This section shared with MMTB & Planning Board)
		Improve Woodward crossings following best practices for pedestrians and cyclists.	1	☐	
		Study lane reduction and re-striping options for Woodward.	1	☒	
		Pursue a speed reduction on Woodward through legislative means.	1	☐	
		Plant a full and consistent tree canopy along the Woodward median throughout Birmingham, beginning with the northern and southern entries.	4	☐	
		Adjust Elm to meet Woodward perpendicularly.	1	☒	Lavery Porsche Development
		Adjust Worth to meet Woodward perpendicularly.	1	☐	
New Plans	Woodward Gateways Plan	Create a Woodward Gateways Plan to comprehensively address the three gateway areas along Woodward.	-	☐	(This section shared with Planning Board)
		Revisit and adopt plan components for the South Woodward Gateway Plan.	1, 4	☐	
		Create plan components for a North Woodward Gateway, including the future use of public land.	1, 4	☐	
		Create plan components a Downtown Gateway Plan for the Big Woodward and Maple intersection.	1	☐	
Policy	Unbundled Parking*	Pilot unbundled residential parking within Downtown parking garages.	2	☐	
Studies	Residential Districts Parking	Study citywide street on-parking restrictions and permits	3	☐	
New Plans	Mixed-use Districts Parking Plan*	Create a Mixed-use Districts Parking Plan. The following goals are provided greater detail within the chapters listed.	-	☐	
		Establish unbundled residential parking policies within Downtown garages.	2	☐	
		Establish unbundled residential parking policies in all mixed-use districts in existing and future parking garages.	2	☐	
		Provide public parking as recommended in the 2007 Triangle District Plan	1, 2, 4	☐	
		Provide public parking in the Rail District. Consider redevelopment of the DPS building to occupy a portion of a public parking garage in its place, which services the lower Rail District.	2, 4	☐	
		Provide public parking for the western Haynes Square district.	2	☐	
		Study opportunities to accommodate more monthly garage permits.	4	☐	
		Study monthly parking pass fees to better align with prevailing rates.	4	☐	

		Study tiered parking pricing to encourage use of under-utilized garages.	2, 4	☐	
		Study tiered parking meter pricing to encourage use of under-utilized on-street parking.	4	☐	
		Study the potential for Public Private Partnerships to construct garages.	1	☐	
		Study additional parking assessment districts or incremental tax districts for land purchases and financing the development of parking garages.	1	☐	
		Study parking garages at the Bates Street Extension and Lot 6.	4	☐	
		Study technological improvements to ease usage of parking garages.	4	☐	
Policy	Unimproved Streets	Adopt policy recommendations specified by the Ad-hoc Unimproved Streets Committee (AHUSC), including the following:	-	☐	
		Establish a yearly budget to remedy unimproved streets, considering the general fund plus bond strategy and repayment timelines.	3	☐	
		Survey the current condition of unimproved streets, categorized by the current quality such that streets in the most extreme states of disrepair can be prioritized for improvement.	3	☐	
		Remedy unimproved streets according to the repair priority and budget, ensuring improvements occur in multiple Planning Districts each year.	3	☐	
Studies	Civic Facilities Study	Study key civic facilities to continue to support Birmingham residents. The following goals are provided greater detail within chapters specified.	-	☐	
		Study the location, programming, and funding for new facilities for Next.	1	☒	
		Study a permanent, open-air farmers market pavilion with public restrooms on the portion of Lot 6 that is along Old Woodward.	4	☐	
		Establish policy to continue the tradition of constructing Birmingham's civic buildings and parks as iconic structures and landscapes to the highest standards and at a civic scale	1	☐	
		Study how a Community Foundation / Fund may further Master Plan goals.	1	☐	
Existing Plan Updates	Parks and Recreation Master Plan Update	Expand the 2018 Parks and Recreation Master Plan or create a new plan beyond the 2022 horizon. The following goals are provided greater detail within the chapters listed. See additional goals under headings "Parks Best Practices" in Chapter 4.	-	☒	COMPLETED - Parks & Recreation Plan adopted in 2023
		Purchase part of the Adams Square parking lot for park space, or ensure that redevelopment would require that future park space be provided near Adams and Bowers.	3	☐	
Studies	Shared-use Streets*	Study shared-use streets. The following goals are provided greater detail within the chapters listed.	-	☐	
		Study a shared-use streetscape retrofit along with a social district in the Maple & Woodward district.	1, 4	☐	
		Study a shared-use street section along Cole and Commerce Streets.	4	☐	
		Study additional opportunities in other mixed-use districts.	1, 4	☐	

Boards & Programs	Civic Events	Extend the role of the Public Arts Board or other existing board, or establish a Civic Events Board, to develop regular civic events to continue engaging the community throughout the year and promote existing civic institutions.	1, 4	☐	
		Consider regular events in community parks.	3	☐	
		Consider activities and special events to attract office workers and residents to shop and dine downtown, including weekly events at Shain Park.	4	☐	
Studies	Parking Technology	Review master plan parking recommendations in 2030-35 to evaluate new technologies and trends.	4	☐	

**Likely to be directed to the Planning Board when City Commission is ready*

Parks & Recreation Board

Type	Title	Description	Where	In Progress	Notes
Existing Plan Updates	Parks and Recreation Master Plan Update	Expand the 2018 Parks and Recreation Master Plan or create a new plan beyond the 2022 horizon. The following goals are provided greater detail within the chapters listed. See additional goals under headings "Parks Best Practices" in Chapter 4.	-	☒	COMPLETED - Parks & Recreation Plan adopted in 2023
		Differentiate parks by type to better determine appropriate amenities, services, and best practices.	3	☒	
		Utilize Planning Districts to determine sufficiency of park access across the city, availability of amenities, and consideration of activities and recreation in each season.	3	☐	
		Formalize the public use of school and institutional open spaces for neighborhood recreation, prioritizing under-served Planning Districts.	1, 3	☐	
		Develop Worth Park to provide needed open space for Torry.	3	☐	
		Develop the contemplated linear park and trail along the Rail District.	4	☐	
		Build a cafe or provide accommodations in Booth Park as recommended in the 2016 Downtown Plan.	1, 4	☒	Booth Park Trail Plan
		Increase amenities and connections in Downtown's parks and mini-parks.	4	☐	
New Plans	Rouge River Trails and Access Master Plan	Develop and implement a trails and access master plan to improve the Rouge River trails and trail heads.	-	☐	
		Install pedestrian linkages to the park's surrounding neighborhoods and commercial districts, including to Quarton Road.	5	☐	
		Secure easements to expand the park area and improve its walkability, for complete ecological restoration, and universal accessibility.	5	☐	
		Coordinate with Bloomfield and Beverly Hills to expand trail connections.	5	☐	
		Install an environmentally sensitive, hard-surfaced pathway for pedestrians and cyclists along the Rouge River.	5	☐	
		Expand the extent of the trail system, crossing the river at more locations to access large portions of the natural area currently cut off.	5	☐	
		Install bridges, ramps, and other enhancements to enable access by all ages and abilities.	5	☐	
		Install other amenities such as bicycle racks, lighting, markers, seating, and signage at trail heads, and seating, markers, and interpretive features throughout the trail system.	5	☐	

Historic District Commission

Type	Title	Description	Where	In Progress	Notes
Policy	Historic Districts Policy	Adopt a policy to proactively establish new historic districts as well as landmarks.	3	☒	

Public Arts Board

Type	Title	Description	Where	In Progress	Notes
Policy	Public Art Policy	Permit murals and wraps like the popcorn utility wrap to be city-initiated or by the Public Arts Board.	1	☒	
Policy	Art Murals Policy	Implement an art-mural program for large blank wall surfaces in key locations. Coordinate with the Mixed-use Districts Branding Plan.	4	☐	

Wayfinding & Branding Committee

Type	Title	Description	Where	In Progress	Notes
New Plans	Woodward Safety & Beautification Plan	Create a Woodward Safety and Beautification Plan. The following goals are provided greater detail within the chapters listed.	-	☐	
		Provide way-finding and informational signage for public parking	1, 4	☒	
New Plans	Mixed-Use Districts Branding Plan	Create a Mixed-use Districts Branding Plan, in coordination with the Birmingham Shopping District, to brand the City's multiple mixed-use districts.	1, 4	☐	

Key/Legend

Type	Title	Description	Where	In Progress	Notes
Type of action from Plan	Title of Action from Plan	Dark grey box corresponds to broad action item heading/category	-	☐	Basic notes for tracking
↓	↓	White box corresponds to sub-actions related to broad action above	Chapter	☐	↓

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Engineering Department

DATE: June 28, 2024

TO: Jana L. Ecker, City Manager

FROM: Melissa A. Coatta, City Engineer

SUBJECT: E. Lincoln Street, east of S. Eton Street

This report shall provide the City Commission information regarding the status and the rehabilitation of E. Lincoln Street, east of S. Eton Street as requested from the City Commission on May 5, 2024.

Background:
E. Lincoln Street, west of S. Eton to the dead end, was last paved in 2004 during a new water main installation along the north side of the road. During this construction project, the road was milled 1.5"-3" and a new 3" asphalt overlay was placed on the street.

Existing Conditions:
The PASER rating for this roadway in 2021 and 2023 was a 3, poor condition. Below is a summary for the infrastructure score for this street segment from S. Eton Street to Forest Hills Lane:

Fund	Rating
Street	80
Water	49
Sewer	39
Total	168

Enclosed are pictures of the roadway taken on June 27, 2024.

Schedule for Construction:
This portion of E. Lincoln is in the Capital Improvement Program for fiscal year 2028/2029, with construction occurring in 2029. Most of the project funding is coming from the Major Street Fund. The following road/bridge projects are proposed under the Major Street Funds prior to this project:

FY 2024/2025:
- Adams and Derby Traffic Signal Improvements
  Costs: $350,000.00
- Traffic Signal Mast Arms
  Costs: $300,000.00

- East Maple Road Rehabilitation, S. Eton to Coolidge
  Costs: $844,000.00
  Note: Grant Amount is $626,890.00
  Infrastructure Scores: Street 80, Water 21, Sewer 30 = Total 131
- North Adams Road Resurfacing: Madison Street to the North City Limits
  Costs: $1,705,380.00
  Presently has a 1925 water main, and 1925/1926 Sewer.
  Infrastructure Scores: Street 68, Water 33, Sewer 48 = Total 149
- Willits & Bates Reconstruction: Warren Court to N. Old Woodward and N. Bates to Maple Road
  Costs: $1,063,700.00
  Contains some 1915 – 6" diameter water main
  Infrastructure Scores: Street 50, Water 29, Sewer 43 = Total 122
  Note: ADA sidewalk crossing to be improved
- Wimbleton Drive Reconstruction, Woodward Ave to Oxford
  Costs: $3,535,140.00
  Presently has a 1925 – 6" diameter water main, and 1925/1926 Sewer.
  Infrastructure Scores: Street 75, Water 51, Sewer 71 = Total 197

FY 2025/2026:
- South Eton Road Project (Bike Lanes)
  Costs: $3,191,630.00
- South Eton Road Project (Roads Only): 14 Mile Road to Maple
  Costs: $3,008,100.00
  Infrastructure Scores: Street 69, Water 46, Sewer 44 = Total 159
- Wimbleton Road Reconstruction: Oxford to Adams Road
  Cost: $3,586,630.00
  Presently has a 1925 – 6" diameter water main, and 1925 Sewer.
  Infrastructure Scores: Street 70, Water 77, Sewer 90 = Total 237

FY 2026/2027:
- Derby Bridge
  Costs: $6,946,610.00
- North Old Woodward Resurfacing: Oak Street to Woodward Avenue
  Costs: $1,595,260.00
  Presently has a 1928 – 8" diameter water main, and clay sewer.
  Infrastructure Scores: Street 80, Water 44, Sewer 87 = Total 211

FY 2027/2028:
- E. Lincoln Street Resurfacing, Phase 1 (Woodward Ave. to S Eton Street)
  Costs: $2,669,820.00
  Infrastructure Scores: Street 73, Water 44, Sewer 54 = Total 171

Preliminary Construction Costs:
Based on bid pricing from the 2024 Asphalt Resurfacing Program, the estimated construction cost for a 3" mill and asphalt overlay, and 10% base repairs is approximately $250,000.00 - $300,000.00.

Attachments:
June 27, 2024 Photos

E. Lincoln Road – S. Eton to Dead End

View East

E. Lincoln Road – S. Eton to Dead End

View West

E. Lincoln Road – S. Eton to Dead End

View East

E. Lincoln Road – S. Eton to Dead End

View South

E. Lincoln Road – S. Eton to Dead End

View West

E. Lincoln Road – S. Eton to Dead End

View East

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Legal – City Attorney

DATE: July 2, 2024

TO: Jana L. Ecker, City Manager

FROM: Mary M. Kucharek, City Attorney

SUBJECT: Request for Closed Session Under MCL § 15.268, Sec.8(1)(e) of the Open Meetings Act

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INTRODUCTION:
The City Attorney is requesting to meet with the City Commission in closed session to discuss pending litigation pursuant to MCL § 15.268, Sec.8(1)(e) of the Open Meetings Act.

BACKGROUND:
Pursuant to MCL § 15.268 Sec. 8(1)(e) of the Open Meetings Act the City Attorney wishes to discuss pending litigation for several cases:

Yasamin Aziz, et al v City of Birmingham, Oakland County Circuit Court Case No. 2024-206496-NZ, Honorable Phyllis C. McMillen. This lawsuit claims that on or about August 23-24, 2024 the Plaintiffs' homes and other private properties located in the City were unreasonably interfered with and flooded alleging defects in the design, construction, and maintenance of its sewage disposal system. This has been filed as a class action; meaning that the Plaintiffs initiated litigation for all persons and entities similarly situated.

Caroline Ashleigh, et al v City of Birmingham, et al, Oakland County Circuit Case No.: 23-202347-NZ. This lawsuit claims that the Plaintiffs' homes and other private properties located in the City were unreasonably interfered with and flooded alleging defects in the design, construction, and maintenance of its sewage disposal system. This has been filed as a class action; meaning that the Plaintiffs initiated litigation for all persons and entities similarly situated.

Yacoub Iseid, Case No.: 471-2021-01162. Plaintiff is suing for wrongful termination.

Edward Ford v City of Birmingham, Oakland County Circuit Court Case No.: 2023-199850-NF. This case was dismissed as the Court granted the City's Motion to Dismiss.

Brayton Groth v City of Birmingham, et al, U.S. District Court for the Eastern District of Michigan Case No.: 2:23-cv-11355-DML-KGA. This matter stems from a police response to a domestic violence 911 call which occurred on July 10, 2021. This matter is currently pending and scheduled for trial February 18, 2025.

Blake Jones v Birmingham Police Department, Michigan Court of Appeals Case No.: 368429. On June 7, 2024, the Court granted the City's Motion to Dismiss.

Christine Lindsey v City of Birmingham; Oakland County Circuit Court Case No.: 2022-197456-NI. This matter pertains to an accident that occurred on April 18, 2022 wherein a City owned vehicle came into contact with a vehicle in which Plaintiff was a passenger. Trial is scheduled for September 10, 2024.

Reinhart, et al v City of Birmingham, U.S. District Court Eastern District of Michigan Case No.: 2:22-cv-11074-MAG-DRG. Plaintiffs assert that the City's downtown construction reduced general parking on South Old Woodward and, therefore, violates Title II of the ADA. This matter is currently pending.

LEGAL REVIEW:
I am requesting a closed session on July 8, 2024 pursuant to MCL § 15.268 Sec. 8(1)(e).

FISCAL IMPACT:
To be discussed in closed session.

ATTACHMENTS:
Open Meetings Act, MCL § 15.268 Sec. 8(1)(e).

SUGGESTED COMMISSION ACTION:
Adopt a resolution to meet in closed session to discuss pending litigation regarding several cases pursuant to MCL § 15.268 Sec. 8(1)(e) of the Open Meetings Act:

Yasamin Aziz, et al v City of Birmingham, Oakland County Circuit Court Case No. 2024-206496-NZ.

Caroline Ashleigh, et al v City of Birmingham, et al, Oakland County Circuit Case No.: 23-202347-NZ.

Yacoub Iseid, Case No.: 471-2021-01162.

Edward Ford v City of Birmingham, Oakland County Circuit Court Case No.: 2023-199850-NF.

Brayton Groth v City of Birmingham, et al, U.S. District Court for the Eastern District of Michigan Case No.: 2:23-cv-11355-DML-KGA.

Blake Jones v Birmingham Police Department, Michigan Court of Appeals Case No.: 368429.

Christine Lindsey v City of Birmingham; Oakland County Circuit Court Case No.: 2022-197456-NI.

Reinhart, et al v City of Birmingham, U.S. District Court Eastern District of Michigan Case No.: 2:22-cv-11074-MAG-DRG.

OPEN MEETINGS ACT (EXCERPT)
Act 267 of 1976

15.268 Closed sessions; permissible purposes; applicability to independent citizens redistricting commission.

Sec. 8. (1) Except as otherwise provided in subsection (2), a public body may meet in a closed session only for the following purposes:

(a) To consider the dismissal, suspension, or disciplining of, or to hear complaints or charges brought against, or to consider a periodic personnel evaluation of, a public officer, employee, staff member, or individual agent, if the named individual requests a closed hearing. An individual requesting a closed hearing may rescind the request at any time, in which case the matter at issue must be considered after the rescission only in open sessions.

(b) To consider the dismissal, suspension, or disciplining of a student if the public body is part of the school district, intermediate school district, or institution of higher education that the student is attending, and if the student or the student's parent or guardian requests a closed hearing.

(c) For strategy and negotiation sessions connected with the negotiation of a collective bargaining agreement if either negotiating party requests a closed hearing.

(d) To consider the purchase or lease of real property up to the time an option to purchase or lease that real property is obtained.

(e) To consult with its attorney regarding trial or settlement strategy in connection with specific pending litigation, but only if an open meeting would have a detrimental financial effect on the litigating or settlement position of the public body.

(f) To review and consider the contents of an application for employment or appointment to a public office if the candidate requests that the application remain confidential. However, except as otherwise provided in this subdivision, all interviews by a public body for employment or appointment to a public office must be held in an open meeting pursuant to this act. This subdivision does not apply to a public office described in subdivision (j).

(g) Partisan caucuses of members of the state legislature.

(h) To consider material exempt from discussion or disclosure by state or federal statute.

(i) For a compliance conference conducted under section 16231 of the public health code, 1978 PA 368, MCL 333.16231, before a complaint is issued.

(j) In the process of searching for and selecting a president of an institution of higher education established under section 4, 5, or 6 of article VIII of the state constitution of 1963, to review the specific contents of an application, to conduct an interview with a candidate, or to discuss the specific qualifications of a candidate if the particular process of searching for and selecting a president of an institution of higher education meets all of the following requirements:

(*i*) The search committee in the process, appointed by the governing board, consists of at least 1 student of the institution, 1 faculty member of the institution, 1 administrator of the institution, 1 alumnus of the institution, and 1 representative of the general public. The search committee also may include 1 or more members of the governing board of the institution, but the number does not constitute a quorum of the governing board. However, the search committee must not be constituted in such a way that any 1 of the groups described in this subparagraph constitutes a majority of the search committee.

(*ii*) After the search committee recommends the 5 final candidates, the governing board does not take a vote on a final selection for the president until at least 30 days after the 5 final candidates have been publicly identified by the search committee.

(*iii*) The deliberations and vote of the governing board of the institution on selecting the president take place in an open session of the governing board.

(k) For a school board to consider security planning to address existing threats or prevent potential threats to the safety of the students and staff. As used in this subdivision, "school board" means any of the following:

(*i*) That term as defined in section 3 of the revised school code, 1976 PA 451, MCL 380.3.

(*ii*) An intermediate school board as that term is defined in section 4 of the revised school code, 1976 PA 451, MCL 380.4.

(*iii*) A board of directors of a public school academy as described in section 502 of the revised school code, 1976 PA 451, MCL 380.502.

(*iv*) The local governing board of a public community or junior college as described in section 7 of article VIII of the state constitution of 1963.

(*l*) For a county veteran services committee to interview a veteran or a veteran's spouse or dependent regarding that individual's application for benefits or financial assistance and discuss that individual's

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application for benefits or financial assistance, if the applicant requests a closed hearing. This subdivision does not apply to a county veteran services committee voting on whether to grant or deny an individual's application for benefits or financial assistance. As used in this subdivision, "county veteran services committee" means a committee created by a county board of commissioners under section 1 of 1953 PA 192, MCL 35.621, or a soldiers' relief commission created under section 2 of 1899 PA 214, MCL 35.22.

(2) This act does not permit the independent citizens redistricting commission to meet in closed session for any purpose. As used in this subsection, "independent citizens redistricting commission" means the independent citizens redistricting commission for state legislative and congressional districts created in section 6 of article IV of the state constitution of 1963.

History: 1976, Act 267, Eff. Mar. 31, 1977;—Am. 1984, Act 202, Imd. Eff. July 3, 1984;—Am. 1993, Act 81, Eff. Apr. 1, 1994;—Am. 1996, Act 464, Imd. Eff. Dec. 26, 1996;—Am. 2018, Act 467, Eff. Mar. 27, 2019;—Am. 2021, Act 31, Imd. Eff. June 24, 2021;—Am. 2021, Act 166, Imd. Eff. Dec. 27, 2021.

Compiler's note: Enacting section 1 of Act 166 of 2021 provides:

"Enacting section 1. This amendatory act is intended to clarify that the independent citizens redistricting commission for state legislative and congressional districts, since its establishment under section 6 of article IV of the state constitution of 1963, has been required to conduct all of its business at open meetings, without exception and in a manner that invites wide public participation throughout this state, as provided in section 6(10) of article IV of the state constitution of 1963, and that the commission continues to be subject to this unqualified open meetings requirement."

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
905 SHIRLEY	23,618.56	Tony A. Treuse	6/23/24
905 SHIRLEY	23,618.56	Lynn A. Treuse	6/23/24

CLERK'S OFFICE
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JUN 24 2024
1:50 PM

248-420-2600

FROM THE DESK OF
STUART BORMAN

June 20, 2020
City of Birmingham

Dear City of Birmingham,

I am protesting the special assessment on my home at 811 Shirley Road in Birmingham, MI. I should not be charged for the replacement of the lateral sewer lines since they were replaced by Bedient Construction in the last seven years.

Sincerely yours,

Stuart Borman

Stuart Borman

CLERK'S OFFICE
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JUN 20 202
2:39 PM

ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity

STREET ADDRESS	USD ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
377 Allenator St	Roughly $29,000.00	MA Minelli	6/17/2024
377 Allenator St	$29,000.00	Pamela A. Minelli	6/17/2024

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JUN 18 2024
1:38 PM

June 20, 2024

City of Birmingham
151 Martin Street
Birmingham, MI 48009

Dear Sir/Madam,

The purpose of this letter is to protest our proposed street project assessment for 645 Arlington (Sidwell # 19-35-276-003) in the amount of $36,976.91 and for 737 Arlington (Sidwell #19-35-276-023) in the amount of $28,528.61. This protest is being made before the Public Meeting of Necessity scheduled for June 24, 2024.

If these assessment amounts are not significantly reduced or eliminated, we plan to appeal them to the Michigan Tax Tribunal. The basis for our appeal is that these proposed assessment amounts do not result in a direct and proportionate increase in our property values based on appraisals from 3 local realtors as shown on the attachments.

These proposed assessments are also far in excess of the amounts charged to the Westwood Drive property owners for the same type of street upgrade 2 years ago (33' width, curbs, gutters, crowns, manholes, asphalt pavement, etc. Thank you.

Sincerely,

Co-owner
James A. Mirro
248-420-5113

Co-Owner
Loretta Mirro
248-420-8665

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
737 Arlington	28,528.61		6-8-24
737 Arlington	28,528.61		6-8-24
776 Arlington	16,293.04		6-8-24
776 Arlington	16,293.04	Mary P Scott	6-8-24
968 ARLINGTON	18,244.04		6-8-24
968 Arlington	18,244.04		6-8-24
1420 WEST LINCOLN	17,358.62	William C Edmunds	6-8-24
1420 WEST LINCOLN	17,358.62	Nancy Edmunds	6-8-24
735 SHIRLEY ROAD	21,121.86		6-8-24
735 SHIRLEY Road	21,121.86		6-8-24
708 Shirley	32,877.18		6-8-24
708 Shirley	32,877.18	G M.	6-8-24
970 Shirley	24,349.04	Linda Brennan	6-8-24
611 Shirley	25,003.32		6-8-24
188 Shirley	25,042.06	Elaine C. Hazel	6-8-24
188 shirley	25,042.16		6-8-24
361 Shirley Rd	29,147.88		6/8/24
361 Shirley	29,147.88		6/8/24
700 Arlington	21,551.46		6/8/24
700 Arlington	21,551.46		6/8/24

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
280 ARLINGTON St	$21,931.37	Suman Sarka	06/08/2024
280 Arlington St	$21,931.37		06/05/2024
924 ARLINGTON	15,436.33		6/9/24
924 ARLINGTON	15,936.33		6/9/24
1057 Arlington	$51,629.82		6-9-24
1057 Arlington	$51,629.32		6-9-24
117 ARLINGTON	15,868.70	Edward L. Baughman	6-9-24
117 ARLINGTON	15,868.70	Joann Baughman	6-9-24
218 Arlington	$22,371.35		6/9/24
218 Arlington	$22,371.35		6/9/24
381 Shirley	$29,690.81		6/9/24
381 SHIRLEY	$29,690.81		6/9/24
645 Arlington	$36,976.91		6-10-24
645 Arlington	$36,976.91		6-10-24
730 ARLINGTON	$17,700.04		6/10/2024
730 ARLINGTON	$17,700.04	Robert W Myers	6/10/2024
222 Arlington	$15,073.81		6/10/24
222 Arlington	$15,073.81		6/10/24
843 Arlington	$24,732.07		6/10/24
843 Arlington	$24,732.07	Mary Connell	6/10/24

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
640 Shirley	22,722.28		6/10/24
640 Shirley	22,722.28	Theresa M. Carter	6/10/24
860 Arlington	16,139.87		6/10/24
860 Arlington	16,139.87		6/10/24
619 Shirley	22,833.98		6/12/24
619 Shirley	22,833.90		6/12/24
288 Shirley	16,534.17		6/13/24
288 Shirley	16,534.17		6/13/24
663 SHIRLEY	27,416.80		6/14/24
663 Shirley	27,416.80	Karen Motell	6/14/24
130 Arlington AKA 1584 W. maple	32,106.69	Traf Turco, Finance Director	6/11/24
309 Arlington	15,592.57		6/10/24
327 Arlington	21,786.37		6/10/24
577 ARLINGTON	21,521.45		6.14.24
577 Arlington	21,321.45		6-14-24
444 Arlington	37,515.47		6.15-24
444 Arlington	37,515.47		6-15-24
500 Arlington	20,971.43		6-15-24
500 Arlington	20,971.43		6-15-24
975 Arlington	$26,176.25		6/13/24

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
955 Shirley	27,712.35		6-15-24
955 Shirley	27,712.35	MCM	6-15-24
269 Arlington	21,795.63	Madge Moran	6-16-24
550 Arlington	26,538.88	Sherry McCormick	6-17-24
1000 SHIRLEY (L)	4,221.00	Simon Leopold	6-16-24
1000 SHIRLEY (L)	4,221.00		6-16-24
200 Linden	5,228.25	Sheryl L Pollock	6-19-24
992 ARLINGTON	17,227.28	JANET LANNEN	6/19/24
992 ARLINGTON	17,227.28		6/19/24
503 ARLINGTON	38,257.21		6/20/24
503 SHIRLEY	$18,306.44		6/20/2024
503 SHIRLEY	$18,306.44		6/20/2024

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June 20, 2024

City of Birmingham
151 Martin Street
Birmingham, MI 48009

Dear Sir/Madam,

The purpose of this letter is to protest our proposed street project assessment for 645 Arlington (Sidwell # 19-35-276-003) in the amount of $36,976.91 and for 737 Arlington (Sidwell #19-35-276-023) in the amount of $28,528.61. This protest is being made before the Public Meeting of Necessity scheduled for June 24, 2024.

If these assessment amounts are not significantly reduced or eliminated, we plan to appeal them to the Michigan Tax Tribunal. The basis for our appeal is that these proposed assessment amounts do not result in a direct and proportionate increase in our property values based on appraisals from 3 local realtors as shown on the attachments.

These proposed assessments are also far in excess of the amounts charged to the Westwood Drive property owners for the same type of street upgrade 2 years ago (33' width, curbs, gutters, crowns, manholes, asphalt pavement, etc. Thank you.

Sincerely,

Co-owner
James A. Mirro
248-420-5113

Co-Owner
Loretta Mirro
248-420-8665

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Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 5) Treat project/assessment like Westwood Dr.

Name	Address	Date
Maige Moran	269 Arlington	5/2/24
Georgene Moran	269 Arlington	5/2/24
Alex [illegible]	381 Shirley	5/2/24
[illegible]	381 SHIRLEY	5/2/24
[illegible]	226 Shirley	5/2/24
[illegible]	226 Shirley	5/2/24
Elaine Hazel	188 Shirley	5/2/24
Gary Saltzgiver	188 shirley	5/2/24
[illegible]	218 Arlington	5/2/24
Julie C Mellon	218 Arlington	5/2/24
[illegible]	843 Arlington	5/2/24
M Connell	843 arlington	5/2/24
[illegible] Scott	776 Arlington B'ham	5/2/2024
Mary P Scott	776 Arlington	5-2-24
Pamela Minelli	377 Arlington Bham	5/2/24
Mike Minelli	377 Arlington Bham	5/2/24
Niharika Ramdev	280 Arlington	5/2/24
Suman Sarka	280 Arlington	5/2/24
[illegible]	737 Arlington	5/2/24

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Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 6) Treat project/assessment like Westwood Dr.

Name	Address	Date
	130 Arlington	5/2/2024
	130 Arlington	5/2/2024
Edward L. Baughman	117 ARLINGTON	5/2/2024
Joann Z. Baughman	117 ARLINGTON	5/2/2024
	361 Shirley	5/2/2024
	361 Shirley	5/2/2024
	1057 Arlington	5/3/2024
Lana Shaffer	1057 Arlington	5-3-24
Shery Sparrola	503 Arlington	5-3-24
David Henning	503 Arlington	5-3-24
Douglas DeLorosso	487 Arlington	05/03/24
Sheryl M'Cormick	530 Arlington	5/3/2024
Brian Russell	645 Arlington	5/3/2024
Emily Russel	645 Arlington	5/3/2024
Louis A. Sawyer	968 Arlington	5/3/2024
Ronald T. Sawyer	968 Arlington	5/3/2024
Alexander T. Sawyer	968 Arlington	5/3/2024
Nicole T. Sawyer	968 Arlington	5/3/2024
	737 Allington	5/3/24

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Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 6) Treat project/assessment like Westwood Dr.

Name	Address *	Date
William C Edmunds	1420 WEST LINCOLN	5-3-2024
Nancy Edmunds	1420 West Lincoln	5-3-2024
John Schwarz	700 Arlington St	5-3-2024
Terry Schwegman	700 Arlington St	5-3-2024
Daniel	735 SHIRLEY RD	5-3-2024
Joanne Allard	735 SHIRLEY RD	5-3-2024
Caitlin Allard	735 Shirley Rd	5-3-2024
Benjamin Allard	735 Shirley Rd	5-3-2024
Rifat Jull	735 Shirley Rd	5-3-2024
SAFI HAMID	708 Shirley	5/3/2024
GReta MISCIKIE	708 Shirley	5/3/2024
Barbara Bloom	945 Arlington	5/3/2024
David Weintraub	619 Shirley	5/4/24
STUART BARNES	811 Shirley	5-4-24
Hilary Barnes	811 Shirley	5-4-24
Edward C. Lunt	970 Shirley Rd	5-4-24
Linda Doerer	970 Shirley Rd	5-4-24
Joseph Carter	640 Shirley	5/4/24
Theresa Carter	640 Shirley	5/4/24

* NORTH WEST corner of ARLINGTON & W. Lincoln

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Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 6) Treat project/assessment like Westwood Dr.

Name	Address	Date
JANET LANNEN	992 ARLINGTON	5/4/24
[signature]	992 ARLINGTON	5/4/24
[signature] A. TRIVAS	924 ARLINGTON	5/4/24
Valerie Trivas	924 ARLINGTON	5/4/24
Heidi Pinkert	730 Arlington	5/4/2024
Robert Myers	730 Arlington	5/4/2024
Simon Leopold	1000 SHIRLEY CT.	5/4/24
[signature]	1000 SHIRLEY CT.	5/4/24
Kari Conway	222 Arlington	5/4/24
VM Conway	222 Arlington	5/4/24
Gretchen Davidson	444 Arlington	5/4/24

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10A

BIRMINGHAM
A WALKABLE CITY

Alex Bingham <abingham@bhamgov.org>

Arlington-Shirley Street Project

1 message

James Mirro <jmirro@intromarketing.com> Sun, Jun 23, 2024 at 5:43 PM
To: emclain@bhamgov.org, kschafer@bhamgov.com, along@bhamgov.org, tlonge@bhamgov.org, ahaig@bhamgov.org, bhost@bhamgov.org
Cc: Jana Ecker <Jecker@bhamgov.org>, mkucharek@bhlaw.us.com, abingham@bhamgov.org, cballer@bhamgov.org

Dear Commissioners,

Background/Protest Petition: At previous Commission Meetings, Arlington/Shirley property owners have requested modifications to the proposed street upgrade project to reduce our assessment cost and to save our trees from both outright removal and under-street root damage. At the 2-5-24 Commission Meeting, you voted to let us keep our street width, keep our asphalt surface and exempt us from sidewalks to help reach our goals for which we are greatly appreciative. But the present plan still results in an assessment amount that is 3 to 4 times the amount charged to Westwood Drive property owners for the same type of street: 33' width, curbs, gutters, crowns, drain grates, service chambers and asphalt pavement. The present plan also includes removal of 6 trees from the ROW space and endangers over 200 trees from under-street root damage due to full reconstruction, as well as curb/gutter/driveway approach removal and replacement which was not done on Westwood. For these reasons, a majority of our property owners have respectfully submitted a 4-page protest petition opposing the Special Assessment District plan and assessment amounts prior to the 6-24-24 Public Meeting of Necessity. This protest petition was date-stamped in the City Clerk's office on 6-21-24 (Exhibit 1). Individual letters of protest were also filed on 6-21-24 and more protest letters are expected to be filed tomorrow before the meeting. This is all being done to preserve our right to appeal to the Michigan Tax Tribunal as described in the City's letter to property owners dated 6-3-24.

Expert Opinions/Other Petitions: Earlier this year we received 5 expert opinion letters on the durable condition of our streets (Exhibit 2), two realtor letters on the importance of our trees to our property values (Exhibit 3) and five professional arborist letters warning about the risk of full reconstruction to the longevity of over 200 trees within 17' of the curb due to under-street root damage (Exhibit 4). Based on this information, a majority of Arlington/Shirley property owners signed a petition in May requesting that our streets be spared from full reconstruction and curb/gutter/driveway approach removal/replacement in the same way the Commission spared Westwood Drive 2 years ago (Exhibit 5). In full solidarity with Arlington/Shirley homeowners, both Westwood Drive and N. Glenhurst property owners (each having experienced their own street upgrades last year), have signed petitions urging the City to honor Arlington/Shirley's petitions (Exhibit 6).

Westwood Experience: During the Commission Meeting of 6-27-22, Westwood property owners requested that the Commissioners not proceed with the City's Option A to fully reconstruct their street after water main and sewer upgrades were completed in order to reduce the amount of their assessments. The property owners asked instead for the Commissioners to approve Option B which allowed them to keep their curbs/gutters/driveway approaches and to apply a cape seal treatment to the pavement after the infrastructure upgrade. This was clearly described by a Downtown Magazine reporter who attended the meeting (Exhibit 7). As confirmed by the official minutes of this meeting, the Commissioners voted 5 to 2 to adopt Option B as a "middle ground" compromise with the property owners rather than adopt "a blanket policy" that may not fit all circumstances (Exhibit 8). A year after the project was completed, the vast majority of Westwood property owners are happy with the outcome. There is only one street location outside a construction site where a tracked vehicle has damaged the pavement and this is likely to have happened with any type of street pavement. Negative comments at a previous Commission Meeting about the durability of Westwood's cape seal treatment have turned out to be unsubstantiated. Exhibit 9 is a photo of Westwood Street taken on 6-15-24 and shows no problems with the pavement other than a few dirt marks from a vehicle's tires. All in all, the Westwood project has turned out to be a fiscally-sound success story for both the City and its property owners. Exhibit 10 is a letter from Westwood petition circulator and property owner spokesperson, Corey Holter, who describes the Westwood experience and recommends it for Arlington/Shirley.

Analysis: Because of our aging water mains and sewers, Arlington/Shirley property owners also understand the need for their replacement. But it can be done in the same way as Westwood Drive to achieve a lower cost for the City and lower assessment amounts for our property owners too. Keeping our curbs, gutters and driveway approaches provides an enormous savings opportunity we cannot ignore. Based on the Westwood experience, curbs and gutters can just be repaired where needed to avoid losing those recently installed in front of our 15 new house projects and those in good condition in front of older homes. Not only does this plan save us City assessment costs, it also saves us the personal cost of replacing sprinkler heads, mature lawns, ground cover, flower beds, historic stone/brick walls and extensive landscaping near the curbs, as well as avoiding driveway approach changes that will never match the present upscale treatments on many of our properties (exposed aggregate concrete, stone/brick pavers, artistic flare outs, etc.). By letting us keep our curbs, gutters and driveway approaches, we also avoid the long time period without access to our properties caused by concrete curing time (approximately 2 weeks) versus the much shorter curing time for just a new asphalt pavement (approximately one day). This is a huge benefit to handicapped/elderly property owners and supports the City's goal of "aging in place." It also saves 6 trees identified for removal and reduces a major risk to over 200 trees due to under-street root damage. This is an even more significant benefit to us than to Westwood property owners due to the greater number of mature trees next to our streets because our subdivision was originally the Coryell Tree Nursery (note few street trees in the Westwood photo). And it clearly meets the City's goal of retaining tree canopy for energy conservation. Finally, by only repairing curbs and gutters where needed, instead of complete replacement, we avoid releasing tons of carbon into the atmosphere from unnecessary cement production which helps meet the City's sustainability and climate goals. So, while our request is primarily based on the Westwood precedent, there are additional, compelling reasons to vote for our property owners' proposal to meet the City's many other stated goals besides just upgrades to our streets.

Vote Request: While the City has created a legal means of initiating street projects when they have not been initiated by property owners with Ordinance 94.4, it does not have the legal right to violate Michigan Public Act 41.271 which permits a majority of property owners (over 51%) to petition for a particular type of upgrade—especially when a precedent has been set 2 years earlier. It also does not permit the City to assess property owners for amounts that are not "in direct proportion to the increased value of the adjoining parcels" as shown in 3 expert realtor letters (Exhibit 11). To argue otherwise will most likely be judged by both the Michigan Tax Tribunal and the 6th Circuit Court as arbitrary, capricious and discriminatory when compared with the Commission vote on Westwood. Based on applicable case law, but seeking to avoid litigation of this matter, the majority of Arlington/Shirley property owners request the Commission vote on treating their street upgrade project and assessment plan exactly like Westwood at the 6-24-24 Public Meeting of Necessity. As stated in a previous letter, this vote only requires a simple majority to succeed (not a 2/3 super majority), since it is being taken well after the 2-5-24 vote according to Robert's Rules of Order. After this vote, we ask that contractor bids be requested for a second time and the Special Assessment District amounts be revised to replicate the Westwood manner of street upgrade and assessment. Thank you.

Jim Mirro, Resident Agent, Save Our Streets & Trees, A MI Nonprofit Foundation, 737 Arlington, 248-420-5113

P.S. Today the homeowners' spokesperson and petition circulator for Westwood Drive, Corey Holter, who spoke at the 6-27-22 Commission Meeting, reviewed a draft of this letter and texted me that it is "factually accurate to best of my knowledge on all Westwood references."

11 attachments

Westwood Drive Photo, 6-15-24..jpg
104K

Arlington-Shirley Assessment Protest Petition, 6-24, Date Stamped..pdf
2314K

Expert Street Condition Letters (5)..pdf
2607K

Expert Realtor Letters on Tree-Property Values (2)..pdf
992K

Expert Tree Arborist Letters (5)..pdf
2829K

Arlington-Shirley Property Owner Petition, 5-24, Date Stamped..pdf
2240K

Westwood-N. Glenhurst Petitions In Support of Arlington-Shirley..pdf
1152K

Downtown Magazine Article, 7-1-22..pdf
1129K

Birmingham City Commission Meeting Minutes, 6-27-22..pdf
3954K

Corey Holter Letter, 4-28-24..pdf
382K

Three Realtor Letters, 6-24..pdf
1368K

10A

ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
737 Arlington	28,528.61		6-8-24
737 Arlington	28,528.61		6-8-24
776 Arlington	16,293.04		6-8-24
776 Arlington	16,293.04	Mary P Scott	6-8-24
968 ARLINGTON	18,244.04		6-8-24
968 Arlington	18,244.04		6-8-24
1420 WEST LINCOLN	17,358.62	William C Edmunds	6-8-24
1420 WEST LINCOLN	17,358.62	Nancy Edmunds	6-8-24
735 SHIRLEY ROAD	21,121.86		6-8-24
735 SHIRLEY Road	21,121.86		6-8-24
708 Shirley	32,877.18		6-8-24
708 Shirley	32,877.18	G M.	6-8-24
970 Shirley	24,349.09	Linda Pearson	6-8-24
611 Shirley	25,003.32	STUART BOARMAN	6-8-24
188 Shirley	25,042.06	Elaine C. Hazel	6-8-24
188 shirley	25,042.16		6-8-24
361 Shirley Rd	29,147.08		6/8/24
361 Shirley	29,147.08		6/8/24
700 Arlington	21,551.46		6/8/24
700 Arlington	21,551.46		6/8/24

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
280 ARLINGTON St	$21,931.37	Suman Gupta	06/05/2024
280 Arlington	St $21,931.37		06/05/2024
924 ARLINGTON	15,436.33		6/9/24
924 ARLINGTON	15,936.33		6/9/24
1057 Arlington	$51,629.82		6-9-24
1057 Arlington	$ 51,629.32		6.9.24
117 ARLINGTON	15,868.70	Edward L. Baughman	6-9-24
117 ARLINGTON	15,868.70	Joann Baughman	6-9-24
218 Arlington	$22,371.35		6/9/24
218 Arlington	$22,371.35		6/9/24
381 Shirley	$29,690.81		6/9/24
381 SHIRLEY	$29,690.81		6/9/24
645 Arlington	$36,976.91		6-10-24
645 Arlington	$36,976.91		6-10-24
730 ARLINGTON	$17,700.04		6/10/2024
730 ARLINGTON	$17,700.04	Robert W Myers	6/10/2024
222 Arlington	$15,073.81		6/10/24
222 Arlington	$15,073.81		6/10/24
843 Arlington	$24,732.07		6/10/24
843 Arlington	$24,732.07	Mary Connell	6/10/24

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
640 Shirley	22,722.28		6/10/24
640 Shirley	22,722.28	Theresa M. Carter	6/10/24
860 Arlington	16,139.87		6/10/24
860 Arlington	16,139.87		6/10/24
619 Shirley	22,833.98		6/12/24
619 Shirley	22,833.90		6/12/24
288 Shirley	16,534.17		6/13/24
288 Shirley	16,534.17		6/13/24
663 SHIRLEY	27,416.80		6/14/24
663 Shirley	27,416.80	Karen Mcall	6/14/24
130 Arlington AKA 1588 W. Maple	32,106.69	Thad Tuuco, Finance Director	6/11/24
309 Arlington	15,592.57		6/10/24
327 Arlington	21,780.37		6/10/24
577 ARLINGTON	21,521.45		6-14-24
577 Arlington	21,321.45		6-14-24
444 Arlington	37,515.47		6-15-24
444 Arlington	37,515.47		6-15-24
500 Arlington	20,971.43		6-15-24
500 Arlington	20,971.43		6-15-24
975 Arlington	$26,176.25		6/13/24

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ARLINGTON/SHIRLEY SPECIAL ASSESSMENT DISTRICT PROTEST PETITION TO CITY OF BIRMINGHAM, MI

We, the undersigned, protest the proposed SAD amounts prior to 6-24-24 Public Hearing of Necessity.

STREET ADDRESS	ASSESSMENT	SIGNATURE OF PROPERTY OWNER	DATE
955 Shirley	27,712.35		6-15-24
955 Shirley	27,712.35	MCH	6-15-24
269 Arlington	21,795.63	Madge Moran	6-16-24
350 Arlington	26,538.88	Sherry McCormick	6-17-24
1000 SHIRLEY (L)	4,221.00	Simon Leopold	6-16-24
1000 SHIRLEY (L)	4,221.00		6-16-24
200 Linden	5,228.25	Cheryl L Pollock	6-19-24
992 ARLINGTON	17,227.28	JANET LANNEN	6/19/24
992 ARLINGTON	17,227.28		6/19/24
503 ARLINGTON	38,257.21		6/20/24
503 SHIRLEY	$18,306.44		6/20/2024
503 SHIRLEY	$18,306.44		6/20/2024

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CRANBROOK PAVEMENT
Civil & Pavement Professionals Since 1986

February 26, 2024

Jim Mirro
737 Arlington
Birmingham, MI
48009

Dear Jim,

With respect to the road project we discussed the other day and your question about whether it was possible and/or feasible to install a new 8" water main with all necessary connections to the existing homes on both sides of both Arlington and or Shirley with minimal disturbance to the existing road, the short answer is yes.

Having driven and walked Arlington and Shirley Streets innumerable times (given that I live on Pleasant Street in Birmingham) I am quite sure that a new 8" water main with all needed connections, stop box valves, gate wells could easily be designed and installed using Horizontal Directional Drilling (HDD) and High-Density Polyethylene (HDPE) pipe in lieu of the more commonly used Ductile Iron (DI) and "open cut" installation methods.

Not only is this method approved in Oakland County by the Water Resource Department (OCWRC) but it has the potential to address many of the items I understand to be of concern to many residents. It also does not force a complete reconstruction of a street that could easily be restored to pristine status with other techniques we can discuss at another time.

There is no question that the City of Birmingham would be well served to explore this option as a viable alternative to their earlier plans and you have my permission to share this letter or the content thereof with the City Commission.

All the best,

Nick Talmers, Managing Member
Cranbrook Contractual Services, LLC
aka Cranbrook Pavement

(See attached details and specifications for horizontal drilling of watermain from OCWRC).

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Board of Road Commissioners

Andrea LaLonde
Commissioner

Eric D. McPherson
Commissioner

Nancy Quarles
Commissioner

Dennis G. Kolar, P.E.
Managing Director

Gary Piotrowicz, P.E., P.T.O.E.
Deputy Managing Director
County Highway Engineer

Central Operations Department
Inventory Control

2420 Pontiac Lake Road
Waterford, MI 48328

248-858-4798

www.rcocweb.org

March 8, 2024

Mr. Jim Mirro
737 Arlington Road
Birmingham, MI 48009

Dear Mr. Mirro,
Thank you for inviting me to inspect Arlington and Shirley Streets which I was able to do on March 7, 2024. Based on my 35 years of experience on two road commissions and after reading Birmingham's published definition of "improved" vs. "unimproved" roads, it is my professional opinion that these two streets meet the definition of "improved."
Also based on my experience, Horizontal Directional Drilling (HDD) would seem to be a good way to avoid excavating what is basically a very durable road in good condition to replace your water mains and sewers. It is my understanding that you have already talked to my colleague, Mark Davis, who has explained that the City of Birmingham has all the specification information needed from Oakland County to obtain bids from local contractors who know how to do HDD work very successfully.
The property owners of Arlington and Shirley Streets are to be congratulated on proposing a very good plan to save the root system of the 100 trees you have identified as "at risk" if open trench excavation were used instead of HDD. Best wishes for accomplishing your goals and allowing me to comment on your plans.

Sincerely,

Mary N. Gillis, P.E.
Director of Central Operations

GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF TRANSPORTATION
METRO REGION

BRADLEY C. WIEFERICH, P.E.
DIRECTOR

March 15, 2024

Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Jim Mirro:

Thank you for contacting the Michigan Department of Transportation (MDOT) with your concern regarding the proposed method of construction to install a new water main on Arlington and Shirley Streets. I reviewed the provided photos and information. My review included the letter from the Oakland County Road Commission and published data from the City of Birmingham. In my professional opinion and for all planning purposes, Arlington and Shirley Streets should be considered "improved streets" and not "unimproved streets".

The Arlington Street and Shirley Street property owners' plan to save these streets with the use of Horizontal Directional Drilling (HDD) to replace water mains and sewers is commendable given the economic and environmental benefits of not excavating two streets that appear to be in excellent condition. If the use of HDD saves the 100 trees you have identified as vulnerable to root disturbance from excavation of the streets, this is a good reason to proceed with HDD.

Again, I thank you for sharing your concern with us. If you have any additional questions regarding this matter, please feel free to contact me at 248-361-0234 or SwansonL@Michigan.gov.

Sincerely,

Lori Swanson, PE

Digitally signed by: Lori Swanson, PE
DN: CN = Lori Swanson, PE email = swansonl@michigan.gov C = US O = MDOT OU = MDOT
Date: 2024.03.15 12:59:59 -04'00'

Lori Swanson, P.E.
Oakland TSC Manager

MICHIGAN STATE
UNIVERSITY

April 18, 2024

Mr. Jim Mirro
737 Arlington
Birmingham, MI 48009

Dear Mr. Mirro,

Thank you for your inquiry regarding construction plans being considered for Arlington and Shirley Streets. I appreciate receiving the photos of your streets/trees, the description of an "improved" vs. "unimproved" street published by the City of Birmingham and the opinion letters from Cranbrook Pavement, The Oakland County Road Commission and the Michigan Department of Transportation.

Using this information, I had a discussion with my Construction Management student, Angelo Buttazzoni, who has conducted an on-site inspection of your streets. Based on this information and our discussion, I believe that your streets should be classified as "Improved" due to their many engineered features and sound pavement/foundation.

I would further agree with the proposal to use HDD (Horizontal Directional Drilling) to replace your water mains and sewers. This is due to the obvious economic and environmental reason that HDD prevents the need to excavate and reconstruct these streets when a more efficient alternative exists that does not risk damage to your mature trees with under-street root systems.

Please let me know if I can provide you with any other advice regarding the improvement plans being considered for your two streets.

Sincerely,

School of Planning, Design, and Construction

Human Ecology Building
Michigan State University
552 West Circle Dr
East Lansing, MI 48824

517-881-5380
spdc.msu.edu

Sean P. Huberty
Teaching Specialist – School of Planning, Design, and Construction
Construction Management Program Faculty
Michigan State University

MSU is an affirmative-action, equal-opportunity employer.

Edward C. Levy, Jr.
970 Shirley Road
Birmingham, MI 48009

May 17, 2024

Mr. Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Jim,

I want to extend my gratitude for taking the time to visit two weeks ago and for keeping me informed about the plans regarding Arlington St. and Shirley Rd. Linda and I are grateful for the opportunity to sign the petition advocating against full excavation of our streets during the replacement of the water main and sewers.

While preserving over 200 trees from root disturbance due to excavation is crucial, there's another significant reason to reconsider complete excavation. The existing base material of Arlington and Shirley is already well-compacted, and the current road contains valuable blast furnace slag chips from previous chip seal applications. Slag is a co-product of iron production, and it makes a strong, stable base for new asphalt pavement. Leaving the road undisturbed could provide cost savings and increased quality.

If feasible, Horizontal Directional Drilling (HDD) for water/sewer pipe replacement may be a more prudent approach. The associated costs could be charged to the Water & Sewer Fund. Following this, the current road surface can be milled and replaced with new asphalt. This method ensures a more durable street compared to full excavation, at a reasonable cost and with minimal risk to nearby tree roots. This cost could serve as the foundation for the Special Assessment District and would be perceived by property owners as providing excellent value for their investment.

If HDD is deemed unfeasible or too costly due to the current location of the existing water main and sewer lines, trenching for utility replacement should be considered to preserve and minimize disturbance to the existing road base. The excavated material could then be reused onsite.

By adopting HDD or trenching, our streets will maintain the appearance of other excavated streets while performing better and costing less. This approach presents a win-win scenario for both the City and property owners.

Thank you for considering these suggestions. I am hopeful that together, we can arrive at a solution that benefits everyone involved.

Sincerely,

Edward C. Levy, Jr.

BETTY FINKBEINER
MAX BROOCK REAL ESTATE

James A. Mirro
737 Arlington Street
Birmingham, MI 48009

April 28, 2024

Dear Mr. Mirro

I appreciate the opportunity to provide my real estate market knowledge to the residents of Arlington and Shirley Streets. As you know, I have been a licensed realtor in Birmingham for 47 years with Max Broock/Real Estate One Realtors and a member of the President's Council of Excellence. With this experience, I have access to real estate transactions in the City of Birmingham and I also have an intimate knowledge of real estate values by neighborhood.

Your two streets are already regarded as premiere locations in the city with their unique winding streets, large (near one acre) lots and mature trees. For these reasons, property sales on Arlington/Shirley Streets have always been on the high end of the market.

In comparing property sales on Arlington/Shirley Streets with other similar size/age homes on other Birmingham streets, I must conclude that the larger lot size and greater number of mature trees are two of the reasons for the higher prices that buyers are willing to pay. Mature trees in an established neighborhood has always been a defining reason for premium values.

Based on this knowledge and looking at "sales comps" over the past year, I would further estimate that a property with healthy mature trees in your neighborhood will account for a price premium over the same property with no trees or recently-planted trees. Because properties on your streets are selling for $1 million to $3 million plus, this means the value of mature trees is an important factor.

In view of this, I understand your concern about the City's proposed street project that could endanger mature trees near the front of your properties due to under-street root disturbance. Because the street view is the first impression made to a prospective buyer, this risk is all the more concerning. For these reasons, I recommend that Birmingham replace your water mains/sewers without total street excavation/replacement to minimize risk to your many mature trees that could seriously affect property values.

Yours truly,

Betty Finkbeiner

Betty Finkbeiner
Max Broock Realtor

MIDGE MORAN
KELLER WILLIAMS

April 29, 2024

Mr. Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Jim,

As a Birmingham resident for my whole life and a realtor for the past 31+ years, I am glad to provide my opinion on what factors create value for property owners on Arlington and Shirley Streets.

I purchased my home on Arlington in 1984 as I could see the value of Arlington and Shirley Streets. It far exceeded other properties, as we have larger lots and more mature trees, and as we have 100' width lots. My assessment continues to hold true today as verified by the assessed value allocated by the City.

Based on this assessment, I share your concern that fully excavating Arlington and Shirley Streets to replace water and sewer pipes is a huge risk to the property values on these two streets. With other techniques available to replace aging infrastructure, they surely should be fully explored before a final decision is made. I know that this has been done on other Birmingham streets and the same should be done on our streets.

This issue should not even be debated with the value of Birmingham's "jewel" streets being placed in jeopardy when there exists no risk and less expensive ways, such as HDD or narrow trenching, to achieve the same goal of an infrastructure upgrade. Thank you.

Best Regards,

Midge Moran

Midge Moran
Licensed Realtor #6501147440

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728 South Lapeer Rd
Oxford, MI 48371
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April 29, 2024

Mr. Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Jim,

Thank you for asking me to provide some comments regarding Arlington and Shirley Streets. As you, know, our company has been serving you and your neighbors on these two streets for the past 40 years. And it is helpful to hear about the alternative ways that are being considered for replacing your water mains and sewer pipes which I understand are about 100 years old.

I also appreciate you showing me the opinion letters from Cranbrook Pavement, the Oakland County Road Commission, MDOT and the MSU School of Construction. Based on these opinions and my own on-site observations, I would agree with their recommendation that your streets should not be fully excavated and reconstructed to replace your infrastructure if alternative methods are available to save your trees.

As a certified arborist and co-owner of Father & Son Tree Service, I believe that HDD or narrow trenching would be the safest alternatives to avoid under-street root disturbance to the many, mature trees that line your streets, both in the right of way space and also on private property. It is a reasonable expectation that the roots of approximately 100 to 200 trees could be damaged and could lead to their demise if full excavation is used.

I am pleased to see from the other letters that HDD is not only the safest alternative for your trees, but could be the least expensive alternative to achieve your neighborhood infrastructure goals. Narrow trenching and repair could be the second least expensive.

I can also comment that our heavy-duty trucks and tree-pruning equipment have never experienced a problem on your streets. Based on my experience, this suggests that your streets have a sufficiently-durable foundation to simply be paved over after HDD or trenching/patch repair and top paving is completed. Please call me if you have any other tree-related questions. Thank you.

Best Regards,

Dave Jenkins
Certified Tree Arborist

4-29-2024

FRANKLIN'S
TREE CARE LLC

May 10, 2024

Mr. James A. Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Mr. Mirro,

Thank you for calling me yesterday to visit Arlington and Shirley Streets today since I was working nearby. And I am glad that you enjoyed learning that our company's name, Franklin's Tree Care, is derived from owner Cameron Bogard's middle name, Franklin. There is a reason for everything.

I also appreciated reading the letters you received from MDOT, The Oakland County Road Commission, Cranbrook Pavement and The MSU School of Construction. It is hear-warming to see that they all recommend narrow trenching or HDD instead of complete excavation for your streets when replacing water mains and sewers to avoid loss of trees from root cutting. In our business, we are always pleased to see construction-related organizations be concerned for our trees as well as building roads.

As a certified tree arborist, it makes complete sense to me to use the least invasive method to work under streets where many roots exist. Because tree roots are attracted to water, we must assume that the some roots of trees in the right-of-way space and just outside the right-of-way space live under the street where the pipes are located.

If you and your neighbors have identified 208 trees near the street, then avoiding excavation will probably save most of them and this is something you want to do to maintain the appearance of the street. Arlington and Shirley have some of the oldest and tallest trees in the City of Birmingham that make the neighborhood so special. You definitely do not want to risk losing this valuable benefit.

Please call me for any other tree advice in the future and best wishes on saving your trees.

Best,

Douglas Creamer
Certified Tree Arborist

DAVEY

May 13, 2024

Mr. James Mirro
737 Arlington
Birmingham, MI 48009

Dear Mr. Mirro,

Thank you for making an appointment with Alicia last week for me to visit Arlington and Shirley Streets today. And I appreciate you telling me about your streets being part of the Coryell Tree Nursery founded in 1915.

I also appreciate reading the letters you received from Cranbrook Pavement, MDOT and the Oakland County Road Commission, as well as the letter from Michigan State University. It looks like all of them agree that street excavation would be an unwise method to replace your water mains and sewers because of the danger to under-street tree roots of the 208 trees located within 17 feet of the curbs.

Based on my professional experience, I agree with the letters you have already received and also recommend a less invasive approach such as HDD or narrow trenching. These two methods would minimize the number of feeder roots cut and, as a result, also minimize the number of trees that might die from excavation root cutting.

While the loss of any number of mature trees is a shame, to lose them in a neighborhood that was once a tree nursery would be especially sad. I am hopeful that this does not happen and that Davey can service your trees for years to come.

Sincerely Yours,

Mark Witucki
Certified Tree Arborist

Mark D. Witucki
Sales Representative
ISA Certified Arborist® MI-0609A
ISA Tree Risk Assessment Qualified
Associate of Science in Horticulture, Oakland Community College

O: 248.371.9007
F: 248.371.9076
mark.witucki@davey.com
THE DAVEY TREE EXPERT COMPANY

SAVATREE®
Tree, Shrub & Lawn Care

MIKE'S TREE SURGEONS
Arborists and Urban Foresters

Two leading companies joining forces
to serve Metro Detroit communities.

May 14, 2024

Mr. Jim Mirro
737 Arlington
Birmingham, MI 48009

Dear Mr. Mirro,

Thank you for allowing me to visit Arlington and Shirley Streets to advise your neighborhood on the best practices for insuring the long-term health of your trees. I also appreciate seeing the recommendations from Cranbrook Pavement, the Oakland County Road Commission, MDOT, and Michigan State University, all of whom do not recommend excavation of your streets to avoid under-street root disturbance.

As a certified tree arborist, I would also suggest a less-invasive approach like narrow trenching or Horizontal Directional Drilling to avoid root disturbance that could seriously impact the long-term health of all your trees. I understand that you and your neighbors have made a count of 208 trees on your two streets within 17 feet of the curb. Based on this count, excavation could have a tremendous impact on quite a few trees and the overall appearance of your neighborhood if they were to die from street excavation.

Assuming that you are successful in using a less-invasive process and your trees continue to thrive, SavATree is here for you and your neighbors to serve all your tree needs as done in the past. Thank you.

Sincerely,

Al Sexton
Certified Tree Arborist
MI-0398-A
SavATree LLC.

SAVATREE®
We Care For What You Love
2427 John R Road
Troy, MI 48083
www.savatree.com

Al Sexton
ISA Certified Arborist® (MI-0398A)
phone: (248) 588-0202
mobile: (248) 789-3039
email: asexton@savatree.com

ALPINE Tree Service
"Our roots are here, not just branches"

May 15, 2024

Mr. James Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Mr. Mirro,

Thank you for calling me last week to set up today's appointment. As the owner of Alpine Tree Service, I am always happy to meet with Arlington and Shirley property owners about the lovely trees in your neighborhood and how Alpine Tree Service can maintain them in the best possible way.

Also thank you for sharing with me the letters you received from the Oakland County Road Commission and MDOT about seeking a minimally invasive method of replacing your water and sewer pipes. It looks like MSU and Cranbrook Pavement agree with them, as well as the two realtors who each provided their opinion on how not losing trees to root disturbance will help maintain your property values.

While we can never be sure what a street excavation will do to nearby tree roots, it is always better to be safe rather than sorry. If your aging pipes under the street are dripping water, then it does make sense that feeder roots have been attracted to them. And, under this scenario, yes, a full excavation will do more damage to these roots than either HDD or narrow trenching/patching.

It is also my understanding that your street foundation is made of slag chips rather than gravel and you prefer to keep this superior base. In this event, then HDD makes the most sense since even narrow trenching would remove some of the slag. With the camera/sensors used in HDD, contractors have the ability to steer the bit around any root encountered which is the best way to avoid root disturbance. And, as you can see from our logo, we think that maintaining good roots is very important.

Please keep me posted on what happens. I hope that you and your neighbors can save as many of your magnificent trees as possible. Assuming that this occurs, I look forward to providing our tree services to you and your neighbors for a long time to come.

Yours truly,

Anthony Crismon
Owner
ISA Certified Arborist
TCIA Member

ALPINE Tree Service
Removal • Trimming • Plant Health Care
Anthony Crismon
ISA Certified Arborist®
MI-4406A
P.O Box 571
Oxford, MI 48371
Office: 248-758-4718
Cell: 248-758-4717
www.alpinetreeinc.com

Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 5) Treat project/assessment like Westwood Dr.

Name	Address	Date
Madge Moran	269 Arlington	5/2/24
Georgene Moran	269 Arlington	5/2/24
[illegible]	381 Shirley	5/2/24
[illegible]	381 SHIRLEY	5/2/24
[illegible]	226 Shirley	5/2/24
[illegible]	226 Shirley	5/2/24
Elaine Hazel	188 Shirley	5/2/24
Gary Saltzgiver	188 Shirley	5/2/24
[illegible]	218 Arlington	5/2/24
Julie C Mellon	218 Arlington	5/2/24
[illegible]	843 Arlington	5/2/24
M Connolly	843 arlington	5/2/24
[illegible] Scott	776 Arlington B'ham	5/2/2024
Mary P Scott	776 Arlington	5-2-24
Pamela Minelli	377 Arlington Bham	5/2/24
Mike Minelli	377 Arlington Bham	5/2/24
Niharika Ramdev	280 Arlington	5/2/24
Suman Sarka	280 Arlington	5/2/24
[illegible]	737 Arlington	5/2/24

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JUN 21 2024
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Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 6) Treat project/assessment like Westwood Dr.

Name	Address	Date
	130 Arlington	5/2/2024
	130 Arlington	5/2/2024
Edward L. Baughman	117 ARLINGTON	5/2/2024
Joann Z. Baughman	117 ARLINGTON	5/2/2024
	361 Shirley	5/2/2024
	361 Shirley	5/2/2024
	1057 Arlington	5/3/2024
Lana Shaffer	1057 Arlington	5-3-24
Sheny Sparrola	503 Arlington	5-3-24
David Henning	503 Arlington	5-3-24
Douglas DelBrosso	487 Arlington	05/03/24
Sheryl M Cormier	530 Arlington	5/3/2024
Brian Russell	645 Arlington	5/3/2024
Emily Russel	645 Arlington	5/3/2024
Louis A. Sawyer	968 Arlington	5/3/2024
Ronald F. Sawyer	968 Arlington	5/3/2024
Alexander F. Sawyer	968 Arlington	5/3/2024
Nicole F. Sawyer	968 Arlington	5/3/2024
	737 Arlington	5/3/24

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Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 6) Treat project/assessment like Westwood Dr.

Name	Address	*	Date
William C Edmunds	1420 WEST LINCOLN		5-3-2024
Nancy Edmunds	1420 West Lincoln		5-3-2024
John Schwegman	700 Arlington St		5-3-2024
Terry Schwegman	700 Arlington St		5-3-2024
[illegible]	735 SHIRLEY RD		5-3-2024
Joanne Aldred	735 SHIRLEY RD		5-3-2024
Caitlin Aldred	735 Shirley Rd		5-3-2024
Benjamin Aldred	735 Shirley Rd		5-3-2024
Kipe Pull	735 Shirley Rd		5-3-2024
SAFI HAMID	708 Shirley		5/3/2024
GReta MISOTXFE	708 Shirley		5/3/2024
Barbara Bloom	945 Arlington		5/3/2024
David Weintraub	619 Shirley		5/4/24
STUART Berman	811 Shirley		5-4-24
Hillary Berman	611 Shirley		5-4-24
Edward C. [illegible]	970 Shirley Rd		5.4.24
Linda Posner	970 Shirley Rd		5.4.24
Joseph Carter	640 Shirley		5/4/24
Theresa Carter	640 Shirley		5/4/24

* NORTH WEST Corner of Arlington & West Lincoln

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Arlington-Shirley Property Owner Petition

We, the undersigned, petition Birmingham to: 1) Replace water mains/sewers; 2) Use narrow trenching/patching or HDD; 3) Not excavate streets to save tree roots; 4) Repair pavement; 5) Use cape seal when done; 6) Treat project/assessment like Westwood Dr.

Name	Address	Date
JANET LANNEN	992 ARLINGTON	5/4/24
	992 ARLINGTON	5/4/24
Courtney A. Trivano	924 Arlington	5/4/24
Valerie Lucas	924 Arlington	5/4/24
Heidi Pinkert	730 Arlington	5/4/2024
Robert Myers	730 Arlington	5/4/2024
Simon Leopold	1000 Shirley Ct.	5/4/24
	1000 Shirley Ct.	5/4/24
Kari Conway	222 Arlington	5/4/24
VM Conway	222 Arlington	5/4/24
Gretchen Davidson	444 Arlington	5/4/24

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Westwood Street Petition to the City of Birmingham

We, the undersigned property owners on Westwood Street, having experienced a change of our street in 2023, petition the City of Birmingham to permit the property owners of Arlington and Shirley Streets to "opt out" of the changes proposed for their streets if a majority of the property owners express that desire through their own petition to the City.

Name	Address	Date
	938 Westwood	12/2/23
	"	12/2/23
Andy Romanosky	980 Westwood	12/2/23
	980 Westwood	12/2/23
	1009 Westwood	12.2.23
	"	"
	1036 Westwood	12/2/23
	"	12/2/23
	1064 Westwood	12/2/23
	1064 Westwood	12/2/23
	1043 Westwood	12/2/23
	1043 Westwood	12/2/23
	1011 WESTWOOD	12.2.23
	1011 WESTWOOD	12.2.23
JESSICA TOROK	533 OAK / 1011 Westwood	12.2.23
	533 OAK / 1011 Westwood	12.2.23
	947 Westwood	12-2-23
	947 Westwood	12-2-23
	915 Westwood	12-2-23
	885 Westwood	12-2-23

N. Glenhurst Petition to the City of Birmingham

We, the undersigned property owners on N. Glenhurst, having experienced a change of our street in 2019, petition the City of Birmingham to permit the property owners of Arlington and Shirley Streets to "opt out" of the changes proposed for their streets if a majority of the property owners express that desire through their own petition to the City.

Name	Address	Date
Sarah Caplen	920 N. Glenhurst Dr	12/2/2023
Collins Caplen	920 N. Glenhurst Dr.	12/2/2023
Victoria McCarthy	940 N. Glenhurst Dr.	12/2/23
Cassandra McCarthy	1025 N. Glenhurst Dr.	12/2/23
James McCarthy	940 N. Glenhurst Dr.	12/2/23
	1044 N. Glenhurst Dr	12/2/23
	1044 N. Glenhurst Dr.	12/2/23
	1065 N. Glenhurst	12/21/23
	1065 N. Glenhurt	12/21/23
Margaret Brunhofer	1043 N. Glenhurst	12/2/23
Charles Brunhofer	1043 N. Glenhurst	12/2/23
Jack Burkett	1011 N. Glenhurst	12/2/23
Linda L. Burkett	" "	12/2/23
Theresa Bennett	917 N Glenhurst Dr.	12-2-23
Scott Bennett	917 N Glenhurst Drive	12/2/23
Andrew Norman	986 N. Glenhurst	12/2/23
Mary Culler	986 N. Glenhurst	12/2/23
CRAIG WILLIAMSON	1010 N. GLENHURST	12/2/23
[illegible]	1010 N. Glenhurst	12/2/23
Tony Pepicon	1099 N. Glenhurst	12/2/23
Regina Pepicon	1099 N. Glenhurst	12/2/23

: Jul 1, 2022

Commission settles on Westwood improvements

By Grace Lovins

While members of the public who live on the affected street declared their opposition, the Birmingham City Commission approved modified street improvement projects to Westwood Drive, Raynale Drive and Oak Street, at their meeting on Monday, June 27.

Upgrades to the streets are part of the first street improvement project initiated under the Modified Street Improvement Policy adopted by the commission in October 2021. The project is driven by the need to upgrade infrastructure in neighborhoods, which include a water main replacement on Westwood between Raynale and Oak, a new water main on Raynale between Glenhurst and the city limits, on Oak between Glenhurst and the city limits, an extension of a separate storm sewer network, and repaving of the streets, as well as sidewalk improvements to meet ADA-compliance.

The proposed project from the city was to include complete reconstruction of the streets, with the cost for the street pavement improvements to be paid for by a special assessment to the adjoining property owners that benefit from the street improvement project, James Surhigh, the city's consulting engineer, said. However, due to objections from numerous residents, a cape seal project was approved by commissioners, along with water and sewer improvements.

"The special assessment process is a long-standing city policy when unimproved streets are improved," Surhigh said."Special assessments for drive approaches, and for water/sewer laterals not meeting current city standards are typical for these type of projects. With this project, improvements will be made to the sewer and water systems, the cost for which is paid from the sewer and water Funds, and are not subject to a special assessment."

Surhigh presented three possible action the commission could take: include full street reconstruction in the project that meets the city's standards for an improved street following the sewer and water system improvements; include patching trenches and full-width cape seal treatment after water and sewer system improvements; or to postpone the project.

He explained that a full reconstruction of the road would shift the specified streets from an "unimproved road" classification to an "improved road" classification, which is a city goal. An unimproved road is considered to be a gravel road with or without curbs that has been treated with a cape seal to provide a relatively smooth driving surface. An improved road is considered a road with curbs and gutters that has a concrete or asphalt surface.

City manager Tom Markus noted that improvements to the water and sewer systems will need to be made, regardless of if the commission were to postpone the project. The water issue, specifically the water main, fire hydrants and storm water system, is the driving factor of the project, he said.

Many residents from the impacted area made comments to the commission regarding the financial cost the project that would be imposed on residents as well as the lack of need, they believe, for a complete road reconstruction, or even reapplication of cape seal, on Westwood.

Corey Holter, a Westwood resident, noted that the project is being done for the public good, not for the residents who live on the street, however the residents will be required to aid in the cost of the project.

Steve Torok, also a resident of Westwood, echoed Holter's frustration towards the public assessments associated with the project. He added that, while it is understood that the sewer and water systems will need improvements, the fixes to the actual street during the project are expensive and are not currently necessary.

Surhigh stated that f the commission were to decide on the water and sewer improvements with patching trenches and cape seal on the road, while the cost per household had not yet been finalized, it is projected to fall within $2,500 to $3,500 per household as a one-year cost.

Mayor Therese Longe remarked the city is making a significant investment in the project – over $1 million through the water and sewer fund.

"I think option B (cape seal) is the only option we can do because the subsurface requires attention, the subsurface is where the problem is. ...To get to the subsurface we have to go through the surface," commissioner Andrew Haig said. "We have a policy that is being created by the city but we shouldn't apply it as a blanket policy without thinking about it. Thinking about the circumstances here, I would advocate for position B in this particular situation as the option to try and get to the best middle ground."

Haig made the motion to approve the second proposed option – upgrading the water and sewer lines without full reconstruction of the street. The commission approved the motion, 5-2, commissioners Elaine McLain and Katie Shafer voting against.

Birmingham City Commission Minutes
June 27, 2022
Municipal Building, 151 Martin
7:30 p.m.
Vimeo Link: https://vimeo.com/event/3470/videos/720093825/

I. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Therese Longe, Mayor, opened the meeting with the Pledge of Allegiance.

II. ROLL CALL

Alexandria Bingham, City Clerk, called the roll.

Present:	Mayor Longe Mayor Pro Tem Boutros Commissioner Baller Commissioner Haig Commissioner Host Commissioner McLain Commissioner Schafer
Absent:	None
Administration:	City Manager Markus, City Clerk Bingham, Planning Director Dupuis, Assistant City Manager Ecker, Assistant to the City Manager Fairbairn, Operations Commander Grewe, City Attorney Kucharek, Human Resources Manager Lambert, Consulting City Engineer Surhigh

III. PROCLAMATIONS, CONGRATULATORY RESOLUTIONS, AWARDS, APPOINTMENTS, RESIGNATIONS AND CONFIRMATIONS, ADMINISTRATION OF OATHS, INTRODUCTION OF GUESTS AND ANNOUNCEMENTS.

Announcements

- COVID-19 Update: Per the CDC, Oakland County has a COVID-19 transmission level of HIGH. The City continues to recommend the public wear masks while attending City meetings per CDC guidelines. All City employees, commissioners, and board members must wear a mask while indoors when 6-feet of social distancing cannot be maintained. This is to ensure the continuity of government is not affected by an exposure to COVID-19 that can be prevented by wearing a mask. The City continues to provide KN-95 respirators and triple-layered masks for all in-person meeting attendees.
- The Clerk's office would like to remind voters to turn in an absentee ballot application if they wish to vote by mail for the August 2, 2022 State Primary Election. Return your absentee ballot to the clerk's office as soon as possible via drop box or mail. To review your specific voting information and preview your ballot visit mi.gov/vote. The online and mail voter registration deadline is July 18th. After July 18th new voters must register in person at the clerk's office.
- Upcoming In The Park Summer Concert Series in Shain Park on Wednesday starting at 7 pm. June 29th is the Birmingham Concert Band (Orchestra) and July 6th is Lisa Mary (Country). Please join us in the park!

In reply to Commissioner Baller, Mr. Strader said Staff, consultants, and the Multi-Modal Transportation Board will make future recommendations for restriping Brown if this item is advanced.

Commissioner Schafer said she was heartened that MDOT is working on making this area safer and said she was looking forward to future iterations.

Commissioner McLain emphasized that drivers must stop for pedestrians in crosswalks.

MOTION: Motion by Commissioner Haig, MPT Boutros:
To approve the reduction of vehicular travel lanes on eastbound Brown Street between Peabody Street and Woodward Ave from two lanes down to one lane;

AND

To direct the Multi-Modal Transportation Board to evaluate permanent road designs incorporating one eastbound vehicular travel lane for Brown Street from Peabody Street to Woodward Ave to recommend to City Commission at a later date.

VOICE VOTE: Ayes, MPT Boutros
Commissioner Baller
Commissioner McLain
Commissioner Schafer
Commissioner Host
Mayor Longe
Commissioner Haig

Nays, None

06-177-22 Westwood, Raynale & Oak Street Project Interim Report for City-Initiated Unimproved Street Project

CCE Surhigh presented the item.

In reply to the Mayor, CM Markus explained:

- The City has been evaluating streets holistically, including condition and all the utilities. He said the water lines, hydrants, and stormwater issues are driving the need to improve the infrastructure of these streets;
- He strongly advised the Commission not to consider Suggested Commission Action C;
- He did not recommend altering the City's street standards because wider streets create more impervious surfaces, more runoff, and cost more for the City's taxpayers to maintain once the streets are improved; and,
- Even though residents in certain areas may not experience flooding, their water infrastructure helps contribute to the flooding and overflow in other parts of the City.

The Mayor noted that if the Commission recommends the current street widths be maintained - as requested by a number of residents - in conjunction with Suggested Commission Action A, that the special assessment costs would be approximately 15% higher than if the streets were reconstructed to the standard 26-foot width. In contrast, Suggested Commission Action B would essentially update the utilities and sidewalk and otherwise leave the street as-is.

In reply to Commissioner Haig, CCE Surhigh stated that there is no sewer cross-connection between Bloomfield Township and Birmingham.

In reply to Commissioner Baller, CCE Surhigh estimated the costs of street improvements or cape sealing to an average size lot. He explained that the costs of street improvements would be split over ten years.

Commissioner Schafer noted that if these roads are fully improved, there would be no additional assessments to those residents. She noted that cape seal, in contrast, would be charged to the residents every time the roads come up again in the cape seal cycle.

MPT Boutros summarized the work of the Ad Hoc Unimproved Street Study Committee (AHUSSC) and the facts the residents of Westwood, Raynale, and Oak should consider in choosing street improvements or cape seal.

Commissioner Schafer also noted that the AHUSSC considered all the options for dealing with unimproved streets, and that the consensus was that improving streets was drastically preferable to cape seal. She noted that the decision to improve infrastructure and certain streets comes after an immense amount of study on the part of Staff. She said this was a significant opportunity to advance the City's goal of improving its 26 miles of unimproved streets. She said that while she appreciated residents' concerns about costs, this is an opportunity to better the City.

Commissioner Host suggested moving Suggested Commission Action A without Westwood. The motion failed for lack of a second.

Public Comment

Corey Holter, resident of Westwood, said many residents of Westwood would prefer Suggested Commission Action C. He said if that option were not available, however, the residents of Westwood would prefer Suggested Commission Action B. He said if the City wants to fully improve Westwood it should pay for that, since it was a matter of public good and not a specific benefit to the residents of Westwood.

In reply to some of Mr. Holter's comments, CM Markus and the Mayor noted that residents have been paying to improve their streets for decades, after which the City takes over paying for further maintenance. It was noted that if these were improved streets the City would be paying for these repairs. It was also noted that taxpayers in the City are currently paying to maintain these streets in terms of potholes, plowing, and other routine maintenance.

Steve Torok, resident of Westwood, said he was supportive of fixing the water and sewer. He said he was supportive of Suggested Commission Action B. He said Westwood was not in poor enough repair to merit full improvements at this time.

CM Markus concurred that Westwood was in relatively good condition for an unimproved street, and said that is why Suggested Commission Action B was included among the options. He noted that even if Suggested Commission Action B is implemented that the base of the street will be replaced with material of higher quality, thus making a better street even if not fully improving it.

Jerry Vanwyke, resident of Westwood, suggested that the Commission should not vote to advance any work on Westwood until it is clear whether the work would require trenching. He said he would also like to see all residents pay for street improvements in the interest of equity.

Kim Romanosky, resident of Westwood, concurred with Messrs. Holter, Torack, and van White.

Janelle Whipple-Boyce, a member of the former AHUSSC, noted that most every resident is assessed at some point for one reason or another. She noted that while it is not pleasant to pay an assessment, it contributes to the public good and is the appropriate thing to do. She said advancing Suggested Commission Action B indicates that the City prefers cape seal to improved streets. Given the City's adoption of the AHUSSC recommendations, she asked how the Commission could consider advancing any Action but Suggested Commission Action A.

Greg Obloy, resident of Glenhurst, said he would prefer Suggested Commission Action C, and if that option was not available, Suggested Commission Action A because he was in favor of doing the construction appropriately the first time. He questioned the legality of imposing the costs of Suggested Commission Action A, however.

A number of speakers questioned whether Glenhurst is an improved street.

CM Markus said he was confident in former City Engineer William Killeen's description of it as such.

Seeing no further public comment, the Mayor returned the conversation to the Commission.

Commissioner McLain said:

- Improving the water infrastructure in the area was essential for preserving the health, safety, and welfare of the City;
- The Commission is obligated to make decisions that will benefit the whole community;
- When performing infrastructure improvements, it is appropriate to improve the road entirely at that time per the AHUSSC's report;
- A number of City residents' flooding issues begin with Westwood's water infrastructure, and this work would begin the address those issues; and,
- Unimproved roads can cause repeated damage to vehicles, which should not occur.

Commissioner Haig said:

- Before running for Commission, he submitted a proposal to the City that would have shared the costs of street improvements more equitably. The City did not pursue the recommendations in his proposal;
- He lives on an unimproved street that damages vehicles and where the cape seal failed in the first six months;
- He wants the City to have as high an ISO rating as possible;
- The water infrastructure in this area can still contribute to flooding in other areas, even if the residents in this area experience no ill-effects;
- Working with policy requires that policy be used as a guideline while also evaluating a situation's particular circumstances; and,
- He was supportive of Suggested Commission Action B as a compromise between policy, resident preference, and because the surface is decent and the subsurface is the main issue.

CCE Surhigh and CM Markus clarified the difference between Suggested Commission Action B and a fully improved street, which includes drainage, the reconstruction of the base to support the street surface, and the service life of the surface.

Commissioner Host noted that of the 26 miles of unimproved road, some percentage will not want their roads improved. He noted that Westwood seems to be one of those streets. He said if the water infrastructure needs to be done, then the road should be trenched, cape sealed, and maintained at its

present width.

MOTION: Motion by Commissioner Haig, Commissioner Host:
To direct the Engineering Department to proceed with final design of the Westwood, Raynale & Oak Street Project to include the planned improvements to the sewer and water systems, and the replacement of pavement surfaces disturbed by the utility construction with a full cape-seal treatment to be completed upon the conclusion of the other construction.

Public Comment
Mr. Holter said after listening to Commissioner Haig speak he was persuaded that the present motion was likely the best option.

The Everlys, residents of Westwood, said they had not been able to speak earlier but that they supported Suggested Commission Action C. Ms. Everly said if the street was to be improved the City should cover the costs.

In reply to Ms. Romanosky, CCE Surhigh said Suggested Commission Action B would result in estimated costs of $2,500 to $3,500 for the average homeowner.

CM Markus explained the next steps if the residents of the streets in question are to be specially assessed. He noted that the residents would have a number of further opportunities to provide comment.

The Mayor noted that the City would be investing well over a million dollars into the area's sewer and water repairs.

Commissioner Baller said he would support this motion because residents seem to be split between Suggested Commission Action B and Suggested Commission Action C, Westwood has sidewalks and curbs, and it is time to re-do the cape seal on the street. He noted that the average home value on the street was relatively high, and said the relatively minor costs stemming from the motion on the floor would likely be easily borne by the residents. He said it was a good compromise, does not establish a precedent, and that the work the AHUSSC did was valuable and will be applied to streets in worse repair.

Commissioner Schafer explained some ways the process of communicating with residents could be improved for the future. She said it should be more clearly communicated to residents moving forward that the MMTB makes a recommendation to the Commission while the Commission makes a final determination. She said residents should be given as much clear and advance notice as possible that their streets are being considered for capital improvements and what that may entail. She said with more advance notice people can expect and plan for full street improvements when they are to occur.

MPT Boutros said he supported the motion because of the condition of the street and because the majority of the residents prefer cape seal to full improvement.

ROLL CALL VOTE: Ayes, MPT Boutros
Commissioner Baller
Commissioner Host
Mayor Longe
Commissioner Haig

Nays, Commissioner McLain
Commissioner Schafer

Corey Holter
1087 Westwood Drive
Birmingham, MI 48009

April 28, 2024

Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Jim,

Thank you for keeping me up to date on the Arlington and Shirley Street Project. Also thank you for sending me a copy of the Downtown Magazine article about the commission meeting where the decision was made to replace our water mains and sewers and to keep our streets unimproved, using a cape seal treatment after the water mains upgrade. I remember the decision and discussion well having attended the commission meeting in person.

As best I can tell, your situation is essentially the same as ours. We both had good streets in good overall condition with curbs and gutters, but needed the infrastructure upgrade which included water mains and the addition of several fire hydrants. The main reason for preferring the cape seal and remaining unimproved was cost. The cape seal approach was significantly less expensive - and like you we've got a diverse set of homeowners on Westwood for whom that was important – including seniors one a fixed income and younger homeowners with kids. And we all know how expensive interest rates are right now.

During the June 27, 2022 commission meeting I, along with other Westwood residents advocated for the lowest cost approach to get the job done. During the meeting, one of the commissioners, Commissioner Haig, said that we shouldn't apply a blanket policy and should "try to get to the best middle ground". The cape seal approach was the best middle ground (referenced as Option B during the commission meeting) and I believe given similarity of situation, would be the best middle ground approach for Arlington and Shirley.

Sincerely,

Corey Holter

LAUREN M. BUTTAZZONI
REAL ESTATE ATTORNEY & BROKER

June 1, 2024

Mr. Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Jim

I have been a licensed attorney for 32 years and a licensed realtor and broker for 25 years. Based on this experience, I can give you my opinion of how the City's planned work on your streets will impact the value of the homes there.

Regarding work to the street surfaces, while there can be value differences between homes on paved versus gravel or dirt roads, there is negligible difference in the value of homes on an older paved road versus a newer paved road. Arlington and Shirley are currently paved roads and after the City's work they will be the same and therefore no difference in the value of the homes.

As for the City's plan to replace the water and sewer pipes, that will also have negligible effect on the value of the homes. Functioning water and sewer services are basic expected services for any property owner in the City of Birmingham, on any street, and in any city. Whether they have been recently updated or not is not a factor in market value, nor is it a factor in its appraisal value.

That said, what WOULD BE a factor is an active or pending ASSESSMENT for such work which becomes a LIEN on the property and which would most definitely affect the market and appraised values. Especially an approximately $50,000 assessment which would not only negatively affect the market and appraisal values, but would also negatively affect the marketing of the home in general and hinder the sale by longer days on market, among other things.

In sum, it is my opinion there is no basis for any increase in market or appraisal value of the homes on Arlington and Shirley due to any of the work the City has planned. Please feel free to call me if you have any questions.

Sincerely,

Lauren M Buttazzoni

Lauren M. Buttazzoni
Attorney & Real Estate Broker
MI Bar # P47174
MI Broker License # 6502427378

MIDGE MORAN
KELLER WILLIAMS REAL ESTATE

June 2, 2024

Mr. Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Jim,

Thank you for talking with me today about the City of Birmingham's plans to upgrade the water mains/sewers of Arlington and Shirley Streets and to excavate/replace the existing streets in the process. I understand that the City plans to charge property owners an assessment to cover 85% of the cost for doing this and you would like to know the impact on the average value of each property on these two streets should these changes occur.

As a Birmingham resident for my entire life and a realtor for the past 31+ years, I know that anyone planning to buy a property on Arlington and Shirley Streets expect that the water mains and sewers will work properly, especially in view of the size/value of these homes. So, replacing underground water mains/sewer pipes that no one can see will have zero effect on what someone is willing to pay for a property on these two streets.

As to the street excavation and replacement, as long as Arlington and Shirely Streets are similar to other streets in the City of Birmingham, which they are, a new property buyer is not going to make a big deal about whether or not there is a low spot in the pavement or a crack in the curb when making an offer on a property that is currently on the market. He/she will assume that the City will repair any defects in the street as needed to bring it "up to code."

Based on my viewpoint as an experienced realtor, I believe that the planned upgrade in Arlington and Shirley Streets will not make a difference in the appraised value of any property by more than a few thousand dollars. It is also entirely possible that an appraisal will not change at all after the streets are upgraded. Based on these two scenarios, I believe that the infrastructure and street changes planned by the City will have an appraisal change from zero to $2,000 per property.

Thank you for the opportunity to comment on the appraised value impact of these proposed changes.

Sincerely,

Midge Moran

Midge Moran
Keller Williams Realtor
MI License #6501147440

BETTY FINKBEINER
MAX BROOCK REAL ESTATE

June 4, 2024

Mr. Jim Mirro
737 Arlington Street
Birmingham, MI 48009

Dear Mr. Mirro,

As you know, I have been a licensed realtor in Birmingham for 47 years with Max Broock/Real Estate One and a member of the President's Council of Excellence. Based on this experience, I am pleased to give you my opinion on how the City's plan for your streets could affect your property values.

It is my understanding that Birmingham plans to completely excavate both Arlington and Shirley Streets, then replace the water pipes and sewer pipes, then replace your current street foundation and pavement. While this will result in a smooth, new street, I do not believe that the cost of the planned assessment will be reflected in any significant change in your property values.

Prospective buyers I work with every day are more interested in the structure of the house, how new is the kitchen and how open is the floor plan. They assume that the water and sewer lines under the street and to the house work as expected, especially in expensive houses. To some extent, this also applies to the newness of the street surface. A prospective buyer certainly appreciates a new street pavement, but does not necessarily take this into consideration when making an offer.

While many streets in Birmingham are in terrible condition, I do not think that Arlington and Shirley Streets fall into this category based on my recent trip there a few weeks ago. Based on this recollection, it is my professional opinion that the changes being planned by the City will not increase your property values by more than $2,000 to $3,000 compared with property values before the change.

Please let me know if I can be of any other help during this project. Thank you.

Best Regards,

Betty Finkbeiner

Betty Finkbeiner
Max Broock Realtor

June 20, 2024

RECEIVED
JUN 21 2024
CITY OF BIRMINGHAM
COMMUNITY DEVELOPMENT DEPT.

From:
Niharika Ramdev
280 Arlington Street
Birmingham, MI 48009
(Parcel # 1935202035)

To:
City of Birmingham
Engineering Office
151 Martin St
P.O. Box 3001
Birmingham, MI 48012

Subject: Formal Protest of Proposed Property Assessment for Arlington, Shirley, and Brandon Street Project

Dear Sir/Madam:

I am writing to formally protest the proposed assessment for my property related to the Arlington, Shirley, and Brandon Street Project as outlined in your letter dated June 3, 2024. The letter did not provide the amount of the assessment that will be levied on my property. One of the other residents communicated that he has filed a Freedom of Information Act request regarding the assessment, and our burden is expected to be $21,931.37.

I hereby retain the right to appeal any assessment by the City related to the above project with the State Tax Tribunal.

Sincerely,

Niharika Ramdev

BIRMINGHAM
A WALKABLE CITY

Alex Bingham <abingham@bhamgov.org>

FromClerksOffice- Attn: Alexandria Bingham, City Clerk -- 6-22-2024 letter of protest

1 message

'Gary Saltzgiver' via Clerks Office <ClerksOffice@bhamgov.org> Sat, Jun 22, 2024 at 4:58 PM
Reply-To: Gary Saltzgiver <gsaltzgiver@yahoo.com>
To: "clerksoffice@bhamgov.org" <clerksoffice@bhamgov.org>

Re: **Hearing of Necessity for Paving Special Assessment District (SAD)** as to paving Arlington Street from Lincoln Road to Maple Road, Shirley Road from Lincoln Road to Maple Road.....

Please record that 188 Shirley protests that the paving project is a necessity and in the best interest of the City and will specially benefit 188 Shirley (and most other properties included in the Special Assessment District) to the extent that it requires replacement of my curb-gutter and driveway approach, except as may necessary for water and sewer lateral connections and to smooth roadway height to my driveway.

My curbs and driveway approach are in good condition (see attached photos), and unnecessary removal of curbs and intrusion into the City easement will jeopardize the root systems of existing trees close to the easement and the two growing in the easement that the City has advised me it will be "monitoring" for construction damage.

Thank you.
Gary Saltzgiver
188 Shirley Rd
Birmingham MI

4 attachments

188 Shirley curb-gutter - north view.jpg
1276K

188 Shirley curb-gutter - south view.jpg
2233K

188 Shirley curb - west with sweetgum.jpg
3448K

188 Shirley- East side curb - south.jpg
1358K

Climate
Action
Now

Climate
Action
Now
LCV

Jenny and Nick Shebib
226 Shirley
Birmingham, MI 48009

June 14, 2024

City Clerk Office
PO Box 3001
Birmingham, MI 48012

Dear City Clerk
My husband and I reside at 226 Shirley. We would like to go on record to reserve the right to protest assessment once all costs and work is completed. Not to say that we will but we would like to reev once all costs have been assessed to our property.

Thank you

Jenny and Nick Shebib
226 Shirley

CLERK'S OFFICE
RECEIVED
JUN 26 2024
3:26 PM

June 20, 2024

To: Birmingham, MI City Clerk

From: Alice and Richard Silbergleit, 345 Shirley, Birmingham, MI 48009

We reserve the right to appeal the amount of the special assessment on our home, 345 Shirley, to the MI Tax Tribunal.

Thank you.

Alice Silbergleit

CLERK'S OFFICE

RECEIVED

JUN 21 2024
4:28 PM

CARLO IN #V

Support Petition

To: Birmingham Michigan City Council

In Support of: The Preservation and Restoration of Trees on Westwood Drive.

Summary: On the single block of Westwood Drive between Oak Ave and Raynale Street, over the past several years the city has removed virtually all the trees bordering the street, in many cases for no apparent reason, and without clear communication to the residents. More importantly, none have been replaced.

The undersigned requests that the city replace the trees removed by city with mature trees, appropriate to the age and character of the neighborhood.

Full Name	Address	Signature
STEVE & JANET TONOLI	1011 WESTWOOD	
Cory Holte	1087 Westwood	
Anezi Bakker	270 Waddington	
Tanya Jeske	1356 Westwood	
Alison Zimmer	1274 Westwood Dr.	
Angela 'Lemont	1186 Westwood Dr.	
MARTIN DARVICK	1150 WESTWOOD	
JERRY MATLEN	1043 Westwood Dr.	
C. Brock Rooney	915 Westwood	
FRANK A. FAGA	912 Westwood	
Jill & Doug Kellyar	947 Westwood	
Kelly & Terry Binkley Patterson	938 11	
Lori Sibanruang	956 Westwood	
Kim Romanosky	986 Westwood	
Kim Vanckef	1000 Westwood	

CLERK'S OFFICE
RECEIVED
JUN 21 2024
3:58 PM

1036 1064

BIRMINGHAM
A WALKABLE CITY

Alex Bingham <abingham@bhamgov.org>

Fwd: Senior/Recreation Center Planning

1 message

Jana Ecker <Jecker@bhamgov.org> Tue, Jun 25, 2024 at 12:04 PM
To: Alex Bingham <abingham@bhamgov.org>

For CC communications next meeting...

Jana L. Ecker
City Manager
Birmingham, MI
(248) 530-1811

---------- Forwarded message ---------
From: **Elaine McLain** <emclain@bhamgov.org>
Date: Tue, Jun 25, 2024 at 7:51 AM
Subject: Fwd: Senior/Recreation Center Planning
To: DShare <dshare@bsdd.com>
Cc: Jana Ecker/City Manager <jecker@bhamgov.org>

FYI—

Elaine McLain
Mayor, City of Birmingham MI
248-225-9903

Begin forwarded message:

> **From:** Brad Host <bhost@bhamgov.org>
> **Date:** June 25, 2024 at 7:36:12 AM EDT
> **To:** Elaine McLain <emclain@bhamgov.org>, Jana Ecker <jecker@bhamgov.org>
> **Subject: Fwd: Senior/Recreation Center Planning**
>
> Dear Ladies,
> Please forward this letter to Dan Share and the Ad-Hoc Committee.
> Also please forward to the Commissioners.
> Thanks,
> Brad
> ---------- Forwarded message ---------
> From: **Michael Clift** <inkamike@icloud.com>
> Date: Mon, Jun 24, 2024 at 10:32 PM
> Subject: Senior/Recreation Center Planning
> To: <bhost@bhamgov.org>
>
> Commissioner Brad Host,
>
> My name is Michael Clift. I'm a senior citizen, a Birmingham resident and an active member of both NEXT and the YMCA. I regularly attend Ad Hoc Senior/Recreation Committee meetings and view with concern the planning process for the Birmingham Senior/Recreation Center which we hope will serve this community for most of the remainder of this century.

10C

I was initially pleased when the city's purchase of the Birmingham YMCA to serve as a future home for NEXT and limited YMCA recreation programs was announced last year. My reaction turned to disappointment (bordering on disbelief) when I learned that neither NEXT or the YMCA had any interest in retaining the existing YMCA pool facilities.

Although the benefits of water aerobics, ranging from low-impact programs to higher intensity aquatic activities, are widely understood to meet the health needs of our senior population, especially those with mobility limitations, aquatic programs were not part of NEXT requirements for the senior/recreation center. The YMCA, on the other hand, uniformly includes aquatic programs in their facilities but chose not to include the pool in their requirements for the senior/recreation center. They saw the pool in their current 400 E. Lincoln Street location as close to the end of its service life and duplicative of their plans to build a single new structure containing aquatic facilities to serve the Birmingham and Royal Oak communities. As a result, Birmingham seniors are now facing the prospect of losing their only local public option for aquatic exercise programs.

My concerns go beyond serving our senior population. The Birmingham YMCA has long provided the only public access aquatic programs in the city. Swim lessons, open swimming, lap swimming, aquatic exercise programs, summer camps and competitive swim teams serve all ages and have been fixtures at the YMCA in Birmingham for as long as most of us can remember. I cannot help but see the potential loss of these programs to local residents as an unintended consequence of the city's YMCA purchase.

The recent apparent shelving of YMCA plans to build a new joint Birmingham/Royal Oak YMCA has unexpectedly provided Birmingham with a tried and true option for managing the pool facilities in the Birmingham Senior/Recreation Center. Parrish Underwood, YMCA Detroit President and CEO, has confirmed renewed interest in managing aquatic programs in the completed center. Now is the time for the city to pause any decisions regarding building options under consideration and engage NEXT and the YMCA in rethinking their requirements for the center.

Birmingham may be a small city, but it is a world-class small city. The final design for the Birmingham Senior/Recreation Center should reflect that. Please take the time to plan the facility that best serves our community in the long run.

Regards,

Michael Clift
723 Oakland Ave
Birmingham, MI 48009

P.S. - Thank you Brad for encouraging Birmingham citizens to get engaged on this issue

Sent from my iPad

10C

BIRMINGHAM
A WALKABLE CITY

Kelly Dolland <kdolland@bhamgov.org>

FromClerksOffice- proposed Next concept option

1 message

DONALD RIHA <dfriha@comcast.net> Tue, Jun 18, 2024 at 4:42 PM
To: "jecker@bhamgov.org" <jecker@bhamgov.org>, "clerksoffice@bhamgov.org" <clerksoffice@bhamgov.org>

I was at the concept plan review meeting and felt that all three solutions were a poor compromise due to site restrictions. A two-story building with a windowless basement is not an ideal solution nor is having the outdoor space for Next in the adjacent park across the parking lot. An alternate solution with some parking located in the park allows a two-story building, with outdoor space on the existing parcel of land that the "Y" sits on. Why cannot this idea be pursued as I believe it would lead to a more functional solution as opposed to the ones being considered.

Don Riha
Next member

CLERK'S OFFICE
RECEIVED
JUN 20 2024
9:44 AM

BIRMINGHAM
A WALKABLE CITY

NOTICE OF INTENTION TO APPOINT TO THE ADVISORY PARKING COMMITTEE

At the regular meeting of Monday, August 26, 2024, the Birmingham City Commission intends to appoint three regular members to the Advisory Parking Committee to serve three-year terms expiring September 20, 2027 (BSD Member, retail, resident).

Interested citizens may submit an application available at the City Clerk's Office or online at www.bhamgov.org/boardopportunities. Applications must be submitted to the City Clerk's Office on or before noon on Wednesday, August 21, 2024. These documents will appear in the public agenda for the regular meeting at which time the City Commission will discuss recommendations, and may make nominations and voter on appointments.

Committee Duties

The Advisory Parking Committee shall provide guidance to the City Commission in the management of Birmingham's Auto Parking System. The Committee shall recognize parking requirements of the CBD and fairly assess the costs to users. It will provide for attractive, maintained and safe facilities.

Criteria/Qualifications of Open Position	**Date Applications Due** **(by noon)**	**Date of Interview**
The majority of the members shall be residents. • One member shall be a large retail representative in parking assessment district. • One member shall be a downtown employee member. • One member shall be a restaurant owner within the parking assessment district. • The alternate members shall own property, own a business or work in the parking assessment district.	08/21/2024	8/26/2024

NOTE: All members of boards and commissions are subject to the provisions of City of Birmingham City Code Chapter 2, Article IX, Ethics and the filing of the Affidavit and Disclosure Statement.

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

Planning Division

DATE: June 18, 2024

TO: Jana L. Ecker, City Manager

FROM: Nicholas Dupuis, Planning Director

SUBJECT: Dumpster Report

On May 6, 2024 (Agenda – Minutes), the City Commission made a motion to discuss the handling of garbage downtown and the potential for it to become a formal agenda item on new business. To help aid the discussion on whether or not to place this item on a future agenda, the Planning Department has provided below a general overview of the handling of dumpsters, the approval processes that are required, and the different codes/ordinances that apply to such.

In the City of Birmingham, commercial entities must contract with their own waste hauler and provide their own waste receptacles. Over the years, this has resulted in a large variety of haulers and receptacle types and created a multitude of challenges for City Staff. Overall, the City has purview over items such as waste receptacles placed in a public right-of-way such as an alley, but we also have purview over their placement on private property pursuant to Article 3, Article 4 and Article 7 of the Zoning Ordinance, as well as Chapter 90 of the City Code of Ordinances. These standards deal with a mixture of issues from screening to placement to collection procedure. Along with the responsibilities of private property owners related to trash, Chapter 90, Sec. 90-34 also outlines standards for refuse collectors themselves, thus providing another layer of complexity to solid waste management Downtown.

The City has a number of mechanisms to address the issues surrounding solid waste receptacles as they arise. These mechanisms are only as good as the information that is provided to us, but could be summarized as follows:

1. **Site Plan and Design Review** – The Site plan and/or Design Review process in which commercial, mixed-use or multifamily developments appear before the Planning Board, Design Review Board, Historic District Commission, City Commission, or any combination thereof, has been a critical opportunity for the City to address the placement and screening of solid waste receptacles. More often than not, this results in receptacles being placed within a building envelope and screened by the building. There are many examples of such throughout the Downtown area, and it is the preferred condition. If there is not a new building being constructed that can plan for a trash room, the alternative may be an open enclosure on site or in many cases Downtown, an alley or passage. When

encountered, the Planning Board enforces the screening standards in Article 4, which were recently updated with new and improved requirements.

2. **Building Permits and Certificate of Occupancy** – Not all construction projects require site plan and/or design review in the City. Many tenant renovations or new business only perform work on the inside of a building, which does not trigger site plan and/or design review. However, all tenant renovations are required to submit a building permit for any work being done. If there is no work being done to the interior and a tenant is simply moving into a space, there is still a minimum requirement to apply for a Certificate of Occupancy. Each of these permit applications are reviewed by the Planning Department for a number of zoning considerations. These considerations include any solid waste receptacles. In addition to the review of the permit application documents, final inspections are required for each permit, which provides the City an opportunity to catch any changes that were unexpected, or not submitted to the City for approval.

3. **Refuse Collectors License** – In the City of Birmingham, no refuse shall be collected until a refuse collector license has been obtained from the City and the applicable license fee has been paid as set forth in the schedule of fees, charges, bonds and insurance. In 2024, there are two waste haulers that have applied for a refuse collectors license: Car Trucking Inc. and GFL Environmental USA, Inc. For comparison, in 2010, there were 8 refuse collectors that applied for a license. These collectors are required to provide a list to the City of all customers and the addresses where collection is performed.

In the background of all of this, and related in particular to alleys and passages is the 2012 study titled "Activating Urban Space: A Strategy for Alleys & Passages." This study identifies alleys and passages in and around Downtown Birmingham, and seeks to provide a framework to classify alleys and passages into different categories based on their existing uses and to outline options to capitalize on opportunities for aesthetic improvement and activation of these spaces. The study outlined three classifications of alleys and passages: Destination Vias, Active Vias, and Connecting Vias. Although the study acknowledges the need to continue services for business along these vias, the study also suggests that conditions that limit opportunities and the desirability of pedestrian uses, such as outdoor automatic food and drink vending machines, *unscreened trash receptacles* and unscreened outdoor storage should be prohibited in alleys and passages. This recommendation, as well as others in the study were translated into code fairly plainly through Article 3 – Activation Overlay District of the Zoning Code, which states that unscreened trash receptacles are specifically prohibited in all vias.

If a dumpster was not caught through any of the processes listed above, or if there are any that may be considered pre-existing legal nonconforming, the City has a right to enforce the following minimum standards that relate to common issues with trash, which are located in Chapter 90 of the City Code of Ordinances:

- Items stored as refuse must be placed in the appropriate waste receptacle. The area in and around all commercial refuse containers shall be kept clean and free from refuse.
- Refuse containers shall be kept neat, freshly painted, and in good repair.
- The commercial waste or mixed-use waste generator responsible for the refuse container must return containers back to their designated area in a neat and orderly fashion by the end of the collection day.
- All solid waste shall be:

- Gathered, stored and placed in a closed container or containers sufficient in number and size to store such waste over a period of not less than seven days;
- Stored and kept in a tidy and sanitary condition at all times;
- Shielded from public view upon the site of generation until no earlier than 4:00 p.m. on the day before refuse shall be picked up;
- Commercial waste storage must be screened in accordance with chapter 126 of this Code. Any changes to the storage of commercial, mixed-use and multi-family refuse must be approved by the Planning Division.

MEMORANDUM

City Manager's Office

DATE: June 14, 2024

TO: Jana L. Ecker, City Manager

FROM: Melissa Fairbairn, Assistant City Manager

SUBJECT: Expanding Special Event Offerings

INTRODUCTION:
Each year the City of Birmingham sponsors several events including the Celebrate Birmingham Parade, the Department of Public Services Open House, and weekly In the Park Summer Concerts. Additionally, the Birmingham Shopping District hosts event including Winter Markt, the Dream Cruise Event, and Day on the Town. The City also allows other organizations, such as the Birmingham Bloomfield Chamber and the Birmingham Bloomfield Art Center, to host events in City parks with a special event permit.

BACKGROUND:
The City of Birmingham offers residents and visitors many special events throughout the year. These special events fall into three main categories: City sponsored events, Birmingham Shopping District sponsored events, and events sponsored by outside organizations.

City Sponsored Events: The City sponsors community events such as the Celebrate Birmingham Parade, the Department of Public Services and Fire Department open houses, and the In the Park Summer Concert series for the benefit of local residents. Each of these events are budgeted for from the General Fund and may receive additional support from sponsorships.

The City events with the highest attendance are the In the Park Summer Concerts which are held weekly in Shain Park from June through August each year. The FY 2024-25 budget for series is $28,200 plus $2,500 in sponsorships which pays for 11 Wednesday night concerts that are planned by the Parks and Recreation Division. In the Park Summer Concerts attract a dedicated audience of local residents who bring picnic blankets and lawn chairs to Shain Park to enjoy an evening of music. Extra Police and Fire staffing have not been needed due to the size of the audience.

Birmingham Shopping District Sponsored Events: The BSD sponsors many special events throughout the year that are designed to bring residents and visitors to the Downtown and bolster the business community. BSD events include Winter Markt, the Birmingham Cruise Event, movie nights in Booth Park, and the weekly Farmers Market. In January 2024, the BSD added the BRRmingham Blast to bring families downtown for shopping, eating, and winter activities.

Birmingham Shopping District sponsored events are planned and budgeted for by the BSD Special Events Committee. The BSD is funded by a special assessment on all commercial, non-residential property in a defined geographic area in and around the central business district. As such, BSD special events are designed to attract new and returning customers to the central business district.

All BSD events are subject to the City Commission's special event permit approval. The BSD pays the City for Police, Fire, and Department of Public Services overtime to support their events.

Events Sponsored by Local Organizations: The City hosts several longstanding special events in and around Shain Park that are planned and sponsored by local nonprofit organizations. These events draw crowds from around Oakland County and beyond.

- Art Birmingham, produced by the BBAC and Guild of Artists & Artisans, has been a Mother's Day weekend tradition for over 40 years.
- The Birmingham Village Fair recently concluded its 59th year and is organized by the Birmingham Bloomfield Chamber.
- The Birmingham Street Art Fair, produced by the Guild of Artists & Artisans partnered with Common Ground, will be celebrating its 50th Anniversary in September 2024.

The organizations that plan and sponsor the events are responsible for submitting a special event permit application for approval by the City Commission and pay the City for Police, Fire, and Department of Public Services overtime to support the event. The City costs to the event organizers are based on the size and nature of expected crowd and whether streets need to be closed for the event. For example, the Birmingham Village Fair has a considerably higher cost than the either art event due to the number of police officers needed to safely monitor the fair.

The costs for local organizations to host special events in City parks and streets also varies from year-to-year based upon the specific conditions of the events. For example, the cost to the Birmingham Bloomfield Chamber to host the 2022 Birmingham Village Fair was $9,910.39. In 2023, the Birmingham Bloomfield Chamber was charged $21,757.78. The increase of $11,847.39 reflects an increase in Police presence and paying for Shain Park to be power washed to remove grease and oil stains following the fair. Conversely, the City costs for Art Birmingham only increased by $1,152.75 from 2022 to 2023 due to increased labor costs in the Police Department and Department of Public Services.

Considerations for Future Events: The City Commission has expressed interest in further discussion into expanding the amount and scope of special events that are offered to the community. There are several methods of expanding the special event offerings that the City could pursue.

- The City could increase the budget for the In the Park Concert series to schedule an artist that would draw a larger audience for one of the concerts. Parks and Recreation staff have researched this and found that it would cost at least $10,000 more to hire a slightly bigger act for one concert. This estimate reflects artist fees, a temporary stage, and rented audio equipment but does not include additional police presence.
- The City could seek to partner with the BSD to add an element to an already existing BSD event. Pursuing this option would require extensive cooperation between City and BSD staff and committees to ensure that the addition enhanced rather than detracted from the BSD's event.

- The City could budget for several small-scale events that would attract residents to their neighborhood parks.
- The City could reach out to festival organizers to encourage them to submit special event applications for a new event. In this option, festival organizers would be responsible for the costs of hosting the festival including permit fees and public safety overtime.
- Interested members of the community could form a community foundation that organizes special events in the City. For example, the Troy Community Foundation organizes Troy Family Daze each September which attracts over 25,000 guests each year.

LEGAL REVIEW:
N/A

FISCAL IMPACT:
The cost of hosting an event in the City of Birmingham is highly variable based on the size of the anticipated crowd and the likelihood that law enforcement or emergency services will be needed. City sponsored special events currently are paid for from the General Fund and are supplemented with sponsorship dollars. The Long Range Planning and FY 2025-26 Budget Hearings would be appropriate times to discuss funding should the City Commission wish to expand either the number of City sponsored special events or the scope of existing special events.

SUSTAINABILITY:
N/A

DESIGN CONSIDERATIONS:
N/A

PUBLIC COMMUNICATIONS:
Special event applications are brought to the City Commission for approval at least 90 days before the event. Applicants for a special event permit are required to notify property owners and businesses within 300 feet of their event area.

City Commission discussions regarding an expansion of City sponsored events would take place during publicly noticed meetings including Long Range Planning in January 2025 and the Budget Hearing in April 2025.

SUMMARY:
The City of Birmingham offers residents and visitors many events throughout the year. These events are primarily organized by the City, the Birmingham Shopping District, or local organizations. The Commission has expressed an interest in expanding the event offerings to increase the sense of place and community in the City. The cost of expanding existing events or adding new ones is highly variable and should be discussed during Long Range Planning and the Budget Hearing.

BIRMINGHAM
A WALKABLE CITY

MEMORANDUM

City Manager's Office

DATE: July 1, 2024

TO: Jana L. Ecker, City Manager

FROM: Melissa Fairbairn, Assistant City Manager

SUBJECT: Fiscal Year 2023-2024 Grants

Throughout Fiscal Year 2023-2024, the City Manager encouraged Department Heads to actively pursue grants to fund their department's projects and initiatives and to seek scholarships for professional development opportunities. In total, $5,203,827.60 in grant funding was secured for the City of Birmingham.

The Department of Public Services received $31,000 in grant funding from the State of Michigan, Oakland County, and the mParks Foundation. These funds were used toward the construction drawings for the Booth Park section of the Trail Improvement Project, accessible equipment in Adams Park, and the annual tree planting program.

The Engineering Department received the majority of the City's grant funding in FY 23-24 with a total of $4,825,065.70. Infrastructure projects such as lead service line replacements, Brown Street paving, and the Cranbrook Road non-motorized pathway were among the projects receiving grant funding.

The Finance Department received $23,540.00 in Community Development Block Grant funds which was used toward the Museum's ADA-accessible parking space project. Additionally, the Museum received $24,475.00 from Michigan Humanities and $5,500 from the Birmingham Area Cable Board for podcasting equipment. The Planning Department also received $20,000 for historic preservation efforts.

The Baldwin Library received a total of $21,550.00 in grant funding from the Michigan Architectural Foundation, the Woman's National Farm and Garden Association, and the Library of Michigan. These funds were used to purchase a vinyl cutter, plant native perennials in the garden beds, and to fund out-of-state trainings for library staff. The Birmingham Shopping District received a $1,000 Main Street grant from Oakland County.

The Fire Department received a total of $29,975.00 for the City's emergency management program. Additionally, the Fire Department received FEMA public assistance reimbursement for their assistance with the Menominee paper warehouse fire in 2022.

The Police Department received $214,489.98 in grant funding throughout the fiscal year. Grant funds were used to pay for recruits to attend MCOLES Public Safety Academy, overtime for officers to enforce traffic safety on Woodward Avenue, staff development opportunities, and toward the purchase of bullet proof vests.

Looking ahead, City staff will proactively pursue grant and other funding opportunities to enhance our capacity to serve the community effectively.

Department	Grant Total
Birmingham Shopping District	$1,000.00
Department of Public Services	$31,000.00
Engineering	$4,825,065.70
Finance	$23,540.00
Fire	$37,206.92
Baldwin Library	$21,550.00
Birmingham Museum	$29,975.00
Planning	$20,000.00
Police	$214,489.98
Total	**$5,203,827.60**

ATTACHMENTS

- FY 2023-2024 Grant Spreadsheet

Fiscal Year 2023-24 Grants					
Department	Grant Name	Grantor	Description	Awarded Amount	
BSD	Main Street Oakland County Grant	Oakland County	Funds for organizational suport.	$	1,000.00
BSD Subtotal				**$**	**1,000.00**
DPS	Department of Energy - Michigan DNR - DTE Tree Planting	U.S. Department of Energy/State of Michigan Department of Natural Resources	Tree planting program	$	4,000.00
DPS	Oakland County Parks & Recreation - Community Grant Program	Oakland County	Applied toward cost to prepare construction drawings for the Booth Park section of the Trail Improvement Project	$	25,000.00
DPS	Play is Essential	mParks Foundation	Accessible equipment for Adams Park	$	2,000.00
DPS Subtotal				**$**	**31,000.00**
Engineering	FEMA Hazard Mitigation Grant	Department of Homeland Security/Michigan State Police	Lot 6 floodwall	$	264,116.70
Engineering	ARPA Coronavirus Local Fiscal Recovery Fund	U.S. Department of Treasury/ State of Michigan Department of Treasury	Lead service line replacement	$	2,238,756.00
Engineering	Drinking Water Asset Management (DWAM)	U.S. Department of Treasury/Michigan Department of Environment, Great Lakes, And Energy	Condition assessment program of water distribution system valves and hydrants, performing pipe integrity analysis, 364 water service line material verification	$	745,680.00
Engineering	SEMCOG Road Data Collection	SEMCOG	Collection of roadway surface condition data	$	5,000.00
Engineering	Local Government Critical Infrastructure Planning	U.S. Department of Treasury/Oakland County	Project planning, engineering, and analysis for the Undersized Water Main Replacement Program and Critical Sewer System Rehabilitation Program.	$	100,000.00
Engineering	2023 Oakland Local Road Improvement Program	Oakland County	Brown Street paving project	$	75,413.00

Engineering	Transportation Alternatives Program	State of Michigan	Non-motorized pathway along Cranbrook Road from 14 Mile to Midvale, and extend the sidewalks from the path along 14 Mile Road west of Cranbrook Road and along W. Lincoln Avenue east of Cranbrook Road.	$1,396,100.00	City Match: $279,345.00
Engineering Subtotal				**$ 4,825,065.70**	

Finance	Community Development Block Grant	U.S. Department of Housing & Urban Development/Oakland County		$ 23,540.00	
Finance Subtotal				**$ 23,540.00**	

Fire	Emergency Management Performance Grant	Department of Homeland Security/Michigan State Police	Funding for the emergency management program.	$ 21,546.00	
Fire	Emergency Management Performance Grant - ARPA	Department of Homeland Security/Michigan State Police	Funding for the emergency management program.	$ 8,909.00	
Fire	FEMA - Public Assistance	Department of Homeland Security/State of Michigan Department of Treasury	Public assistance reiumbursement for BFD's assistance at the Menominee paper warehouse fire.	$ 6,751.92	
Fire Subtotal				**$ 37,206.92**	

Library	Michigan Architectural Foundation 2023-2024 Grant	Michigan Architectural Foundation	Funds for the purchase of a vinyl cutter and other programming supplies.	$ 1,350.00	
Library	2023-2024 Woman's National Farm and Garden Association Grant	Woman's National Farm and Garden Association, Bloomfield Hills	Purchase of native perennials for the garden beds.	$ 1,000.00	
Library	Library of Michigan Continuing Education Grant	U.S. Department of Treasury/Library of Michigan	Funds out-of-state training for staff.	$19,200	
Library Subtotal				**$ 21,550.00**	

Museum	Humanities Grant	National Endowment for the Humanities/Michigan Humanities	Funds for the Underground Railroad traveling exhibit.	$	24,475.00
Museum	Birmingham Museum PEG Grant	Birmingham Area Cable Board	Funds for the acquistion of podcasting studio equipment.	$	5,500.00
Museum Subtotal				**$**	**29,975.00**

Planning	Michigan Strategic Fund	U.S. Dept of Interior, Nat'l Park Service/State Historic Preservation Office	Funds used to create the Historic Design Guidelines.	$	20,000.00
Planning Subtotal				**$**	**20,000.00**

Police	ARPA-Crisis Intervention Training	U.S. Department of Treasury/OCHN	Reimbursement for CIT officers and instructors.	$	6,000.00
Police	Office of Justice - Patrick Leahy Bulletproof Vest Partnership	Office of Justice	50% coverage of bullet proof vest purchase for 47 police staff	$	11,990.50
Police	HIDTA Overtime Reimbursement	United States Office of National Drug Control Policy/MSP/Oakland County	Overtime reiumbursement for BPD's narcotic officer embedded with the Oakland County Narcotic Enforcement Team.	$	5,700.00
Police	MCOLES Public Safety Academy Assistance Progam	U.S. Department of Treasury/Michigan Commission on Law Enforcement Standards	MCOLES Public Safety Academy Assistance Program- ARPA funds to pay for recruits wages and academy	$	72,000.00
Police	Homeland Security Grant Program - OAKTAC	Department of Homeland Security/Oakland County	Overtime reiumbursement for BPD's certified active shooter instructor, to assist OakTac with countywide active shooter development courses.	$	2,363.00
Police	OHSP-Operation Safe Woodward	U.S. Department of Treasury/Michigan Commission on Law Enforcement Standards	Overtime for officers to work elective and mandatory traffic enforcement periods such as distracted driving, speed, seatbelt, and impaired driving	$	80,190.00
Police	Emergency Management & Homeland Security	Department of Homeland Security/Michigan State Police	Conference reiumbursement for staff to attend the Great Lakes Homeland Secuirty Conference.	$	2,270.13
Police	Oakland County Traffic Enforcement Grant	Oakland County	Funds for mandatory and voluntary traffic enforcement periods.	$	31,976.35

Police	2022 Homeland Security Grant Program	Department of Homeland Security/Oakland County	2022 Great Lakes Homeland Security Conference	$	2,000.00
Police Subtotal				**$**	**214,489.98**

Total	**$**	**5,203,827.60**

CITY CLERK
CITY OF BIRMINGHAM
P.O. BOX 3001, 151 MARTIN STREET
BIRMINGHAM, MI 48012

STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION NOTICE OF HEARING
FOR THE ELECTRIC CUSTOMERS OF
DTE ELECTRIC COMPANY
CASE NO. U-21621

- DTE Electric Company requests Michigan Public Service's approval for review and approval of its state reliability mechanism capacity charge to comply with the requirements of Section 6w of PA 341.

- The information below describes how a person may participate in this case.

- You may call or write DTE Electric Company, One Energy Plaza, Detroit, Michigan 48226-1279, (800) 477-4747, for a free copy of its application. Any person may review the documents at the offices of DTE Electric Company or on the Commission's website at: michigan.gov/mpscedockets.

- A pre-hearing will be held:

DATE/TIME:	**Tuesday, July 2, 2024 at 10:00 AM**
BEFORE:	**Administrative Law Judge Katherine E. Talbot**
LOCATION:	**Video/Teleconferencing**
PARTICIPATION:	Any interested person may participate. Persons needing any assistance to participate should contact the Commission's Executive Secretary at (517) 284-8096, or by email at mpscedockets@michigan.gov in advance of the hearing.

The Michigan Public Service Commission (Commission) will hold a pre-hearing to consider DTE Electric Company's (DTE Electric) March 26, 2024 application in which DTE Electric does not propose any change to the capacity charge as approved by the Commission's December 1, 2023 Order in Case No. U-21297, and has not provided capacity service to any electric choice customers. As such, DTE Electric requests the Commission to authorize the continuation of the approval as set forth in the Commission's December 1, 2023 Order in Case No. U-21297 and allow for the capacity charge to remain in effect until the final order in DTE Electric's next general rate; and grant DTE Electric further relief as the Commission may deem necessary or appropriate.

All documents filed in this case shall be submitted electronically through the Commission's E-Dockets website at: michigan.gov/mpscedockets. Requirements and instructions for filing can be found in the User Manual on the E-Dockets help page. Documents may also be submitted, in Word or PDF format, as an attachment to an email sent to: mpscedockets@michigan.gov. If you require assistance prior to e-filing, contact Commission staff at (517) 284-8090 or by email at: mpscedockets@michigan.gov.

INFORMATION ONLY

Any person wishing to intervene and become a party to the case shall electronically file a petition to intervene with this Commission by June 25, 2024. (Interested persons may elect to file using the traditional paper format.) The proof of service shall indicate service upon DTE Electric Company's attorney, Andrea E. Hayden, One Energy Plaza, Detroit, MI 48226.

The prehearing is scheduled to be held remotely by video conference or teleconference. Persons filing a petition to intervene will be advised of the process to participate in the hearing.

Any person wishing to participate without intervention under Mich Admin Code, R 792.10413 (Rule 413), or file a public comment, may do so by filing a written statement in this docket. The written statement may be mailed or emailed and should reference Case No. **U-21621**. Statements may be emailed to: mpscedockets@michigan.gov. Statements may be mailed to: Executive Secretary, Michigan Public Service Commission, 7109 West Saginaw Hwy., Lansing, MI 48917. All information submitted to the Commission in this matter becomes public information, thus available on the Michigan Public Service Commission's website, and subject to disclosure. Please do not include information you wish to remain private. For more information on how to participate in a case, you may contact the Commission at the above address or by telephone at (517) 284-8090.

Requests for adjournment must be made pursuant to Michigan Office of Administrative Hearings and Rules R 792.10422 and R 792.10432. Requests for further information on adjournment should be directed to (517) 284-8130.

For more information on how to participate in a case, you may contact the Commission at the above address or by telephone at (517) 284-8090.

Jurisdiction is pursuant to 1909 PA 106, as amended, MCL 460.551 et seq.; 1919 PA 419, as amended, MCL 460.54 et seq.; 1939 PA 3, as amended, MCL 460.1 et seq.; 1969 PA 306, as amended, MCL 24.201 et seq.; and Parts 1 & 4 of the Michigan Office of Administrative Hearings and Rules, Mich. Admin Code, R 792.10106 and R 792.10401 through R 792.10448.

U-21621

INFORMATION ONLY

Detroit News - - June 22, 2024

Many Metro Detroit suburbs have low tree canopies. Here's how some are trying to fix that

Sterling Heights — Nick Sheeran remembers biking around his neighborhood as early as 5 years old and seeing an abundance of trees.

The 32-year-old Sterling Heights resident vividly remembers trees being removed from the neighborhood several years later due to the emerald ash borer, an invasive beetle that decimated ash trees in the United States. He saw the trees' stumps in yards along the street. Now, there are only about a dozen trees on the block, he said.

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"I was definitely bummed because I used to climb in my parents' trees, too," Sheeran said.

Sterling Heights is one of many Metro Detroit communities with low tree coverage. It had a tree canopy coverage of 21.9% in 2022, which refers to the percentage of a city's area that is covered with trees in aerial imagery, roughly half of the 40% goal by council of local governments in the seven-county region.

The city has unveiled an ambitious plan to plant 15,000 street trees in the next 15 years, making up for the devastation of the emerald ash borer. It plans to fund the majority of this tree planting through a proposed property tax millage that will be on the November ballot.

Experts say trees are more than aesthetics. They boost air quality, filter soil, reduce storm runoff, lower utility costs and boost people's mental health, studies show.

Gerard Santoro, the program director for Macomb County's parks and natural resources division, said the county is investing in canopy because of trees' advantages.

"The benefits are overwhelming," Santoro said.

That's why Sterling Heights is among the Detroit area suburbs trying to reforest its community. Some are now requiring developers to replace some or all of the trees they cut down. Others are selling trees at low prices to residents.

But building each community's tree canopy will take work. Of the 20 most populous suburban cities and townships in Metro Detroit's three counties, four had a canopy over 40% in 2022 — Farmington Hills, Rochester Hills, Southfield and West Bloomfield Township, according to a dashboard created by the Southeast Michigan Council of Governments. Two communities, Waterford Township and Novi, were within two percentage points of 40%, though. Warren had the lowest coverage (18.9%), followed by Dearborn (21.4%).

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In the larger Southeast Michigan region, which includes seven counties, tree canopy coverage was 38.6% in 2022. SEMCOG has a target of reaching 40% tree canopy as a region, based on the canopy in all urbanized census tracts. Predominantly agricultural areas aren't included.

Trees also can play a key role during heat waves like that one that gripped southeast Michigan this past week. Abundant tree canopy can cool down what are called heat islands, which are more developed areas with buildings and concrete that experience higher temperatures than less developed areas, according to the Environmental Protection Agency. The warming climate is predicted to worsen heat islands.

But mature trees can pose challenges for communities as well. When strong storms hit the region this past week, trees in many communities fell, taking power lines with them. They can also affect sewer lines.

Brian Calka, vice president of distribution operations for DTE Electric, said that when DTE Energy Co. customers lose power, trees are the cause about 50% of the time. He clarified that “we love trees at DTE," but said it’s important to ensure “the right tree is planted in the right place.” He said DTE has partnerships with organizations that are planting trees in locations that wouldn’t interfere with powerlines.

Why some suburbs lack trees

To boost their tree canopy, Metro Detroit communities are employing a variety of measures. Many local governments, such as Sterling Heights and Madison Heights, are planting new trees — and ones of diverse species, which means they won't all succumb to one disease. Others, like Macomb County, are selling trees to their residents so they can plant them in their yards.

Jeff Bahorski, Sterling Heights' assistant city manager, said the city lost 12,000 ash trees to the emerald ash borer in the early 2000s. This invasive beetle killed tens of millions of ash trees in Michigan, according to the state. Bahorski said the city cut these trees down over three to four years, and

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then the Great Recession hit, making it difficult for the city to fund the replacement of the street trees.

Macomb County has a tree canopy coverage of 29.1%, according to SEMCOG. Santoro said that when the county's inner-ring suburbs were developed in the 1940s and 1950s, the developers planted trees that "were not really high-quality trees" and weren't diverse. Fifty to 70 years later, some communities saw a "massive die-off" of their trees.

Sterling Heights also has "a significant industrial corridor" between 14 Mile and Hall Road and between Van Dyke Avenue and Mound Road, Bahorski said. Trees and heavy industrial development do "not always mutually coexist," he said.

Bahorski also cited funding as a reason for the city's low tree coverage.

"Cities have to make difficult budgetary decisions and, unfortunately, prior to the awareness of trying to be a sustainable city, investment in trees probably didn't make it high on list," he said, "and that's changing."

How one city plans to reforest

Bahorski said Sterling Heights updated its sustainability plan a few years ago, and trees are "at the forefront." Sterling Heights was awarded a $500,000 grant last year from the U.S. Forest Service's Urban and Community Forest Program, and the city will be matching the grant with $500,000 from the federal American Rescue Plan Act. The city has also secured two other grants and is applying for two more. In total, all of the grants would lead to about $1.8 million in funding for trees if successful.

"Although $1.8 million sounds like a lot, it falls far, far short of replacing 15,000 trees, which is our ultimate goal," Bahorski said.

The 15,000 plantings will allow for at least one tree in front of each residential home in the city.

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Sterling Heights plans to fund the rest of the tree planting through a millage request. Earlier this month, Sterling Heights City Council approved placing a ballot proposal on the Nov. 5 ballot that would amend the city charter to allow for a dedicated 0.95 property tax millage. The 15-year millage would fund a variety of initiatives, such as a pickleball complex, open space preservation and reforestation of the city. If approved, the proposal would, on average, cost residents $95 annually, City Manager Mark Vanderpool said.

"It made sense to go to the voters to kind of decide the type of city ... they would like to live in," Bahorski said, adding that a millage is "probably the best way to finance" the tree program.

The millage would be in effect from 2025 to 2040, and Bahorski said the city's goal is to plant the trees within that 15-year period.

"Hopefully sooner ... but it's a big undertaking, obviously," he said.

Jason Castor, Sterling Heights' city development director, noted that the city plants trees while doing major road projects. In addition, when private companies are looking to redevelop a property, the city asks them to replant at least half of the trees that they remove or pay into the city's tree fund, which the city uses to plant trees around Sterling Heights.

What tree experts recommends

Asia Dowtin, assistant professor of urban and community forestry at Michigan State University, recommends that cities start their reforestation work by having an accurate assessment of the trees in the city. The inventory data should include the tree species, the location of the trees, their size, their location and their condition, she said.

"Having that information is like tantamount to making sure that you've got like the framework necessary to build a plan that you can implement to reach whatever your urban forestry goals are," Dowtin said.

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Sterling Heights hired an urban forestry consulting firm in 2022 to conduct a comprehensive inventory and assessment of the trees on public streets and in city parks, according to Bahorski.

Dowtin also recommends that cities target specific areas where they know that trees need to be replaced or planted. She added that cities should use their inventory to determine how to introduce "new forms of diversity" into their urban forest.

Melinda Jones, the executive director of ReLeaf Michigan, said cities have to determine "the right tree for the right location."

"And you want to go for a diversity of species so that you don't run into an emerald ash borer situation, like we did before," she said.

DTE also has recommendations, including that trees that won't grow more than 20 feet tall be planted beneath powerlines. Trees that will grow 21-45 feet tall should be planted 20-50 feet away from powerlines, the Detroit utility urges. Trees that will grow at least 46 feet tall should be planted over 50 feet away from the lines.

What other communities are doing

Madison Heights in Oakland County has been working over the last few years to elevate its tree coverage, which was at 17% in 2022.

Madison Heights City Manager Melissa Marsh said in 2018, the City Council directed her staff to focus on creating a better tree canopy. The city has planted 623 trees since the 2016-17 fiscal year.

Sean Ballantine, the director of the city's Department of Public Services, said Madison Heights has been "very aggressively" replacing roads and water mains since the late 1990s.

"The problem is, when you do that kind of work, it affects the right-of-way trees to the extent that they either decline or ... we ended up starting to

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proactively remove them," Ballantine said, adding that funding wasn't available then to replace the trees.

Trees that had been planted in the mid-20th century were reaching the end of their lives, he said.

In 2017, Madison Heights started a policy in which it replaces the trees it removes due to construction projects.

The city of Dearborn has a similar requirement to Madison Heights — every tree removed on city property must be replaced by one tree at a minimum.

Tim Hawkins, Dearborn's director of public works and facilities, said the city is removing 1,000 older or diseased trees from residential easements this year and will replant at least 1,000 trees. The city is taking down more trees than normal this year because it removed few trees over the last few years, he said.

When homeowners don’t want a tree replanted in their easement, Hawkins said, it will be replanted elsewhere in the city, as other residents are happy to take an extra tree.

The city of Dearborn's tree canopy was at 21.4% in 2022, with neighborhoods on the east side of the city having lower tree coverage than those on the west side, according to the SEMCOG data. Dearborn Department of Public Health Director Ali Abazeed said south side and east side neighborhoods are closer to factory smokestacks, their air pollution is worse and their streets have fewer trees.

Abazeed said the city is partnering with a clinic at University of Michigan Law School to take "a deep dive" into all of the city's ordinances, including those involving trees, and make recommendations for how Dearborn can become more environmentally sustainable.

While local governments don't have control over whether residents plant trees on their private property, they can give away trees to residents to residents who want them. Macomb County's Santoro said the county

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started running an annual tree sale in 2017, and since then, it has sold about 120,000 trees and shrubs.

In Warren, Mayor Lori Stone said the city handed out 200 saplings to residents for Arbor Day. She said the issue "mostly comes down to education and awareness."

"When people realize they can take small steps on their property to help mitigate climate change," Stone said.

Why some cities have abundant tree canopies

Rochester Hills' tree canopy was 42% in 2022, according to SEMCOG. Mayor Bryan Barnett said the city is a newer suburban community in Metro Detroit — it developed in the 1970s, '80s and '90s — and added more protections for trees over time.

"We've had to make sure that we didn't lose it as we grew," Barnett said.

In 2007, Rochester Hills passed steep slope ordinances, which prohibit trees from being cut down on certain sloped properties. Voters also approved a 10-year millage in 2005 that allowed the city to purchase a lot of green space.

Barnett said the city currently plants 300 to 600 street trees a year.

Livonia, meanwhile, has a tree canopy of 32.3%, according to SEMCOG. Doug Moore, Livonia's assistant director of public works, said that in 2002, Livonia voters passed a road, sidewalk and tree millage, which has been renewed twice. About $150,000 of the money raised from the millage each year is directed toward trees, and the city typically plants around 500 trees a year. He noted that the city normally plants more trees than it takes down.

Moore said he thinks the city spends on trees because "it's a quality of life thing."

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"You drive through portions of Livonia, and you're driving down streets, and it looks like you're in the country," he said. "You'd never know you're in an urban area in some of the areas of Livonia."

Trees cool down heat islands in Metro Detroit

Dowtin of Michigan State University said cities have an abundance of impervious materials, such as roadways and sidewalks, which take in heat from the sun and radiate it off into the atmosphere.

"Urban heat islands can result in these significant temperature changes between developed and less developed areas," she said.

She noted that there sometimes can be up to 5- to 10-degree temperature differences between areas of a city with trees and areas without them. She said trees not only provide shade — they also cool an area through evaporation. She said trees take thermal energy from the air around them.

Sheeran, the Sterling Heights resident, said he wishes his two kids — one is 2 and the other is 2 months old — could experience living on a block like the one he did when he was young. He wishes they could appreciate "the beauty of it" and expect shade.

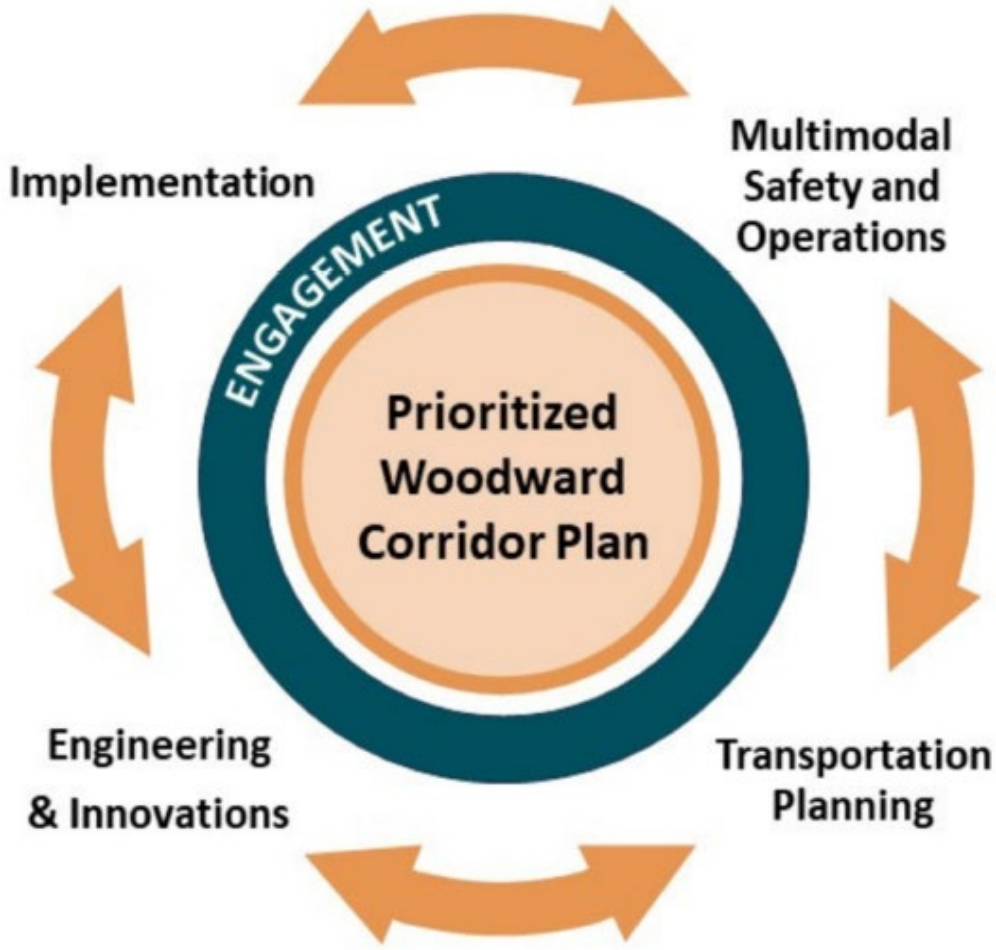
"That's something I wish ... or hope my kids would experience," he said.

asnabes@detroitnews.com

INFORMATION ONLY

Woodward Avenue Corridor Plan

Adams to the Loop



Woodward Mayors' and MDOT Coordination Meeting

June 17, 2024

INFORMATION ONLY

M-1 Corridor Plan: MDOT Overview

- This is a chance to evaluate and make changes to Woodward that meet the needs of today and beyond
- Informing the plan:
  - Safety
  - Multimodality
  - System operations
  - Asset management
  - Local plans
- Outcomes of the plan:
  - Cohesive vison for Woodward Avenue
  - Guide for future project development and project prioritization
  - Jump start on discretionary funding opportunities

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Agenda

- Introduce the Project Team
- Corridor Understanding
- Corridor Focus:
  - Engagement
  - Multimodal Operations & Safety
  - Transit & Non-Motorized
  - Alternatives Analysis
  - The Final Product
- Past Studies
- Questions?

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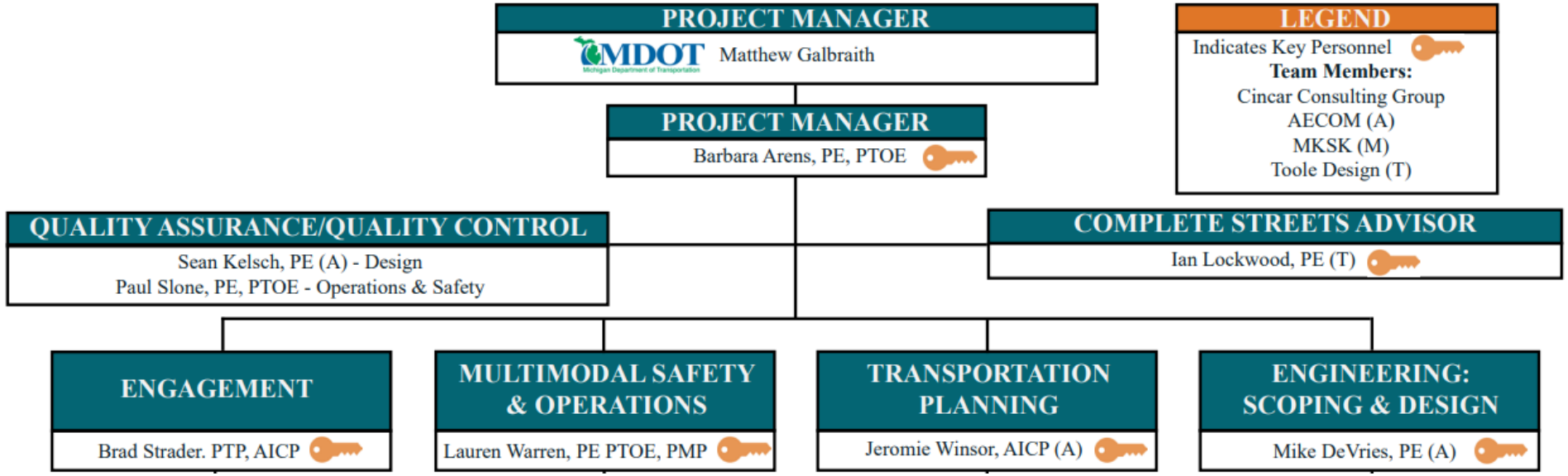
The Team



: Project Management, Engagement, Land Use, Multimodal Safety & Operations

: Transportation Planning, Transit, Engineering, Scoping & Design

: Aesthetics & Landscape Design

: Complete Streets

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Woodward Avenue Corridor Plan Intended Outcome

- Address asset management of aged infrastructure, multimodal operations, access, and safety.
- Provide a cohesive vision by engaging communities and stakeholders along Woodward.
- Create a prioritized and phased corridor plan for all agencies to utilize to implement a cohesive multimodal operational, safety, and design vision.

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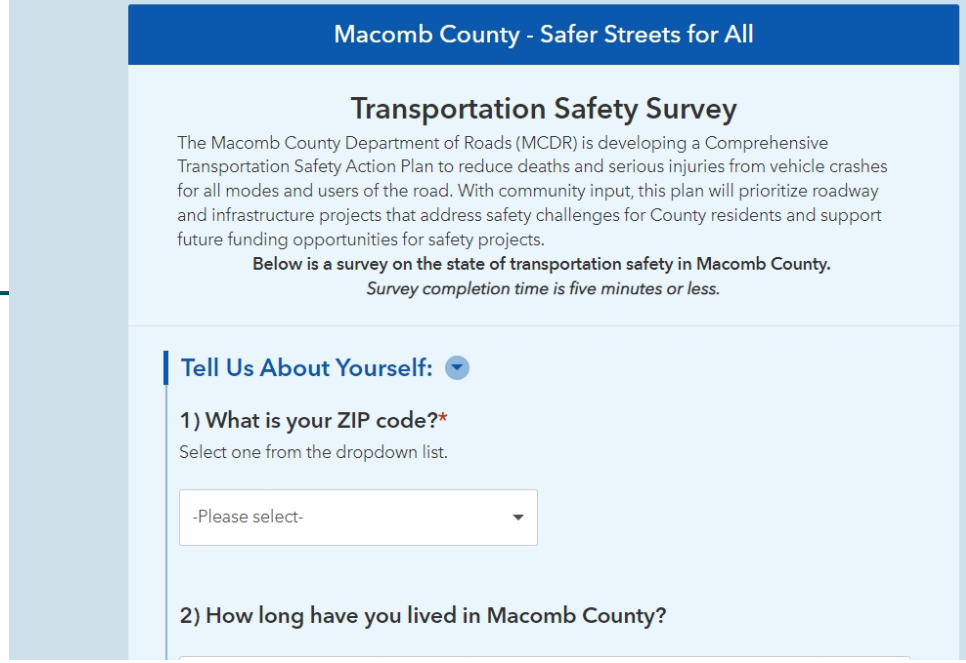
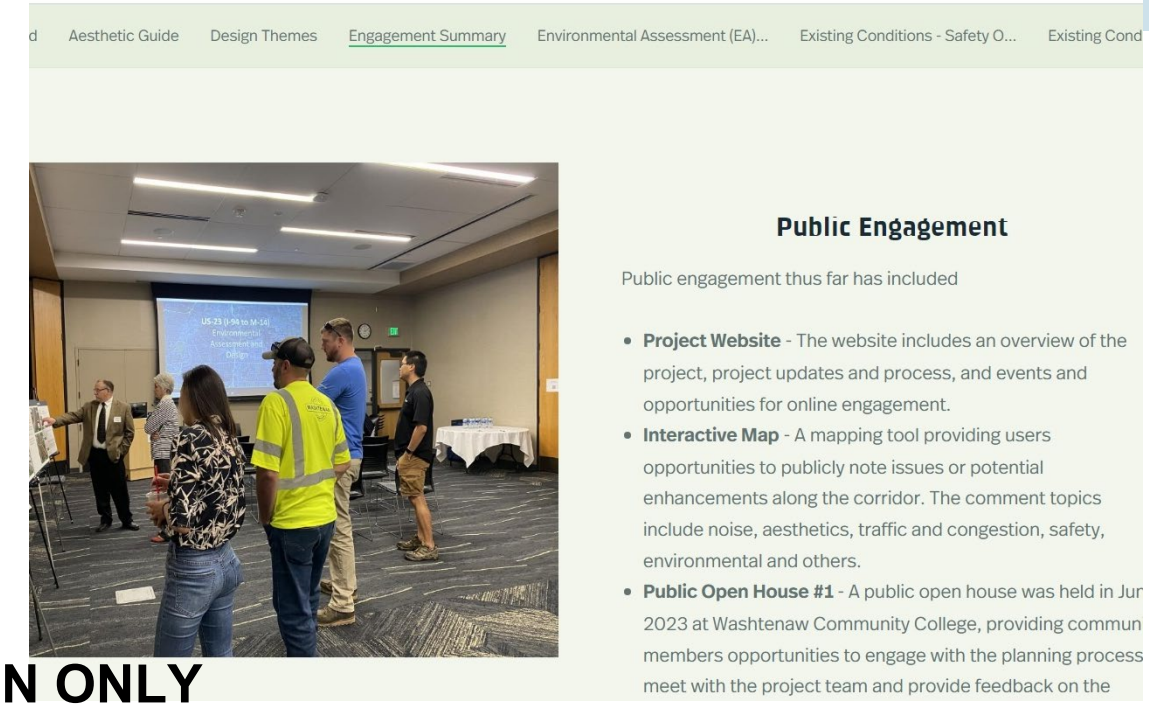
Engagement – A Critical Component

A Public Engagement Plan (PEP) is being created to manage the engagement process throughout the project, which includes:

- Government Advisory Committee (GAC)—Meet quarterly
- Local Advisory Committee (LAC)—Meet quarterly
- Key Stakeholder Meetings (when needed)
- Public Open Houses—(Three Along the Corridor)
  - Corridor Overview, Goals, & Evaluation Criteria
  - Preliminary Alternatives
  - Corridor Recommendations
- Press releases, email blasts, MDOT's project website and social media
- Utilize tools for 24/7 engagement
  - StoryMap
  - Survey123

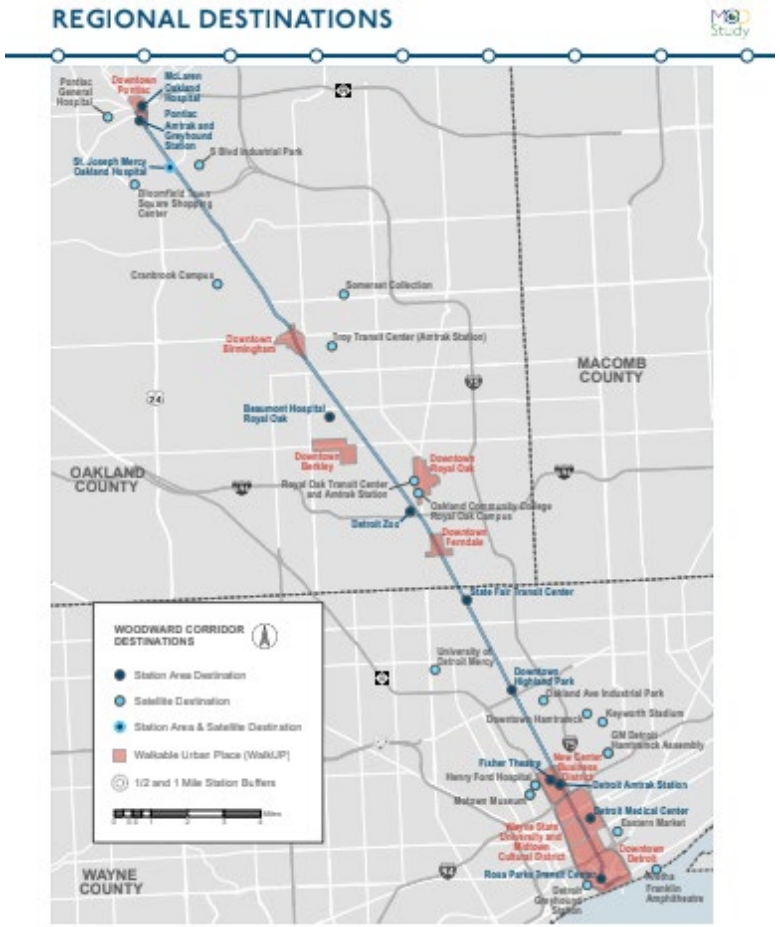




INFORMATION ONLY

Environmental and Transit Analysis

- Environmental topics that could impact future mobility, such as:
  - Historic Preservation
  - Equity
  - Various engineering and environmental criteria
- Transit assessment of Woodward Avenue:
  - RTA Regional Initiatives
  - DDOT Local Bus
  - SMART and FAST Bus
  - QLine



Excerpt from: RTA Mobility-Oriented Development Study

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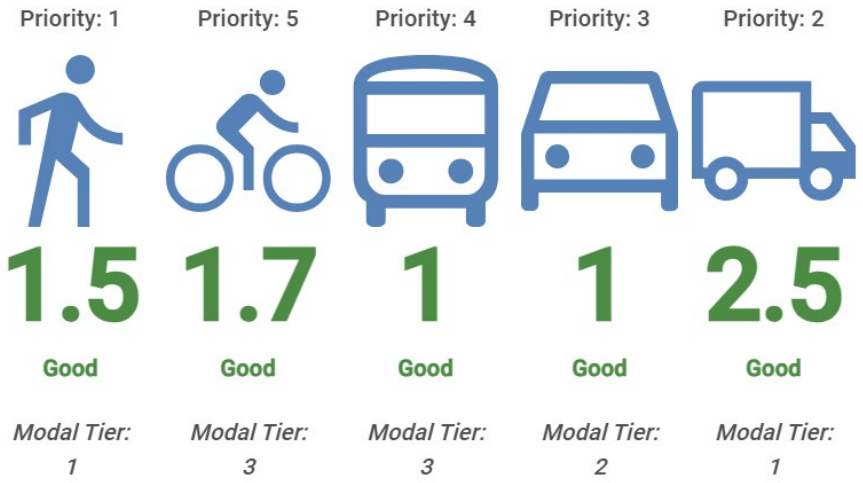
Multimodal Operations & Safety Analysis

- Perform a safety analysis
- Assess existing multimodal operations
- Understand future community goals
- Leverage the SEMCOG/MDOT Multimodal Tool to access mobility for all users along and across the entire corridor
- Recommendations will be made to enhance pedestrian and multimodal safety



INFORMATION ONLY

Alternatives Analysis

- We know that there is no "one-size-fits-all" solution for Woodward Avenue
- The alternatives will address mobility options along the entire corridor through a two-step process:
  - Illustrative Alternatives
  - Practical Alternatives

INFORMATION ONLY

The Final Product

- **A summary of the prioritized corridor plan will include:**
  - Engagement with the communities, agencies, and MDOT
  - Planning and engineering best practices and standards (including costs) for a safer multimodal corridor
  - Prioritize projects to provide MDOT with a road map to move the segments forward
  - Practical, feasible, and actionable elements to develop real projects to meet community needs

- **Time frame: 18-month schedule, with completion in end of 2025**

INFORMATION ONLY

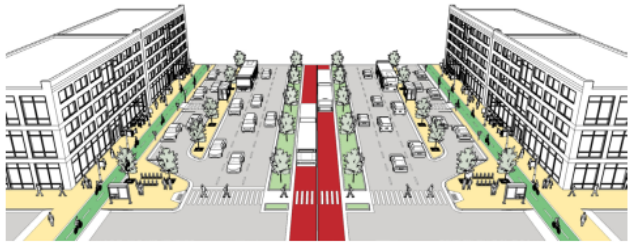
Past Studies of Woodward Avenue

Multi-Jurisdictional Studies

- Transit Alternatives Study
- Woodward Mobility-Oriented Development Study
- Woodward Complete Streets Plan
- Woodward TOD Plan and Code

Jurisdictional Studies

- Transportation Strategic Plans
- Greenway Plans
- Downtown Development and Corridor Improvement Plans
- Capital Improvement Plans
- Non-Motorized Plans



INFORMATION ONLY

City and Township Master Plans

- **City of Detroit (2008 and Update Ongoing)**
- City of Highland Park (2020)
- City of Ferndale (2022)
- City of Pleasant Ridge (2015)
- City of Huntington Woods (2022)
- **City of Royal Oak (2012 and Update Ongoing)**
- City of Berkley (2021)
- City of Birmingham (2023)
- City of Bloomfield Hills (2009)
- Bloomfield Township (2007)
- City of Pontiac (2014)

INFORMATION ONLY

We Need Your Help!

Engagement:

- How can we best engage with your community?
- What are the most successful methods you have found to share information?
- Will you commit to help us communicate and spread the word about the project?
- Advisory Committee Members? Each community and agency will have 1-2 representatives.
- Any key interest group?

Woodward Avenue
COMPLETE STREETS

MOD
Mobility-Oriented Development Study

Any new plans or policies or resolutions we should review?

INFORMATION ONLY

Community/Agency Representative Survey

- Please provide the name(s) and contact information of 1-2 representatives from your community who should be included in the Project Advisory Committee

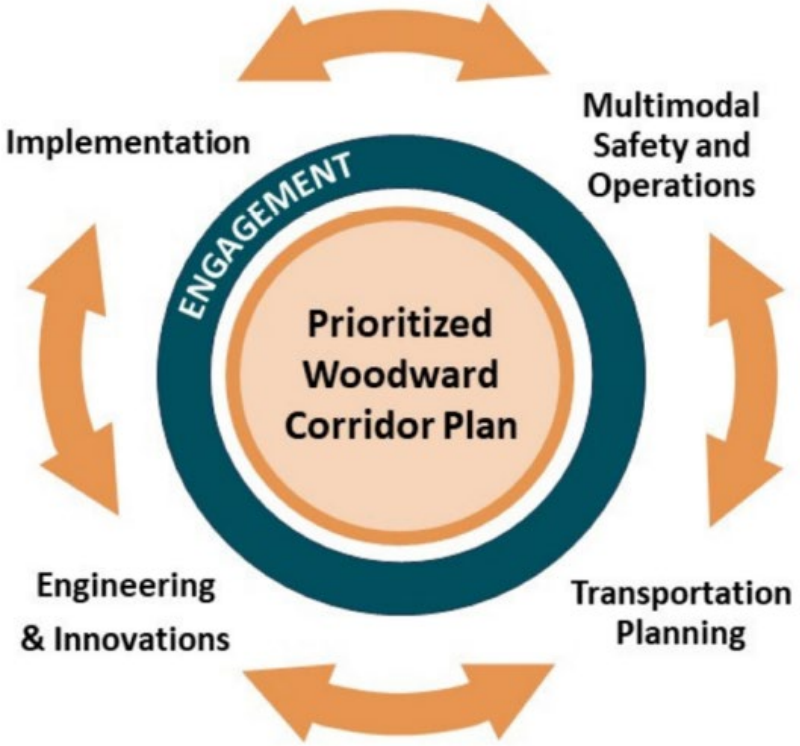
https://arcg.is/O05af0

INFORMATION ONLY

Questions?

MDOT Project Managers:

- Matt Galbraith: galbraithm2@michigan.gov
- James VanSteel: vansteelj2@michigan.gov



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