



Parks and Recreation Board Agenda
Department of Public Services
851 South Eton-Conference Room
Tuesday, August 13, 2024
6:30 PM

- I. Call to order**
- II. Roll Call**
- III. Announcements, Introductions of Guests & Chairpersons Comments**
 1. Ad Hoc Senior/Recreation Center Committee (SCC) - Update
- IV. Open To The Public for Items Not On the Agenda** *(two minutes per person)*
 - No one may speak a second time until everyone in the audience has spoken.
 - The chairperson may alternate speakers pro & con on issues being discussed.
- V. Approval of the minutes of: July 9, 2024***(regular meeting)*
- VI. Unfinished Business**
- VII. New Business-** *Written and submitted by 5pm Monday at the Birmingham Ice Sports Arena, one week prior to the meeting.*
 1. Booth Park Entry Plaza & Trail Improvements -August 12, 2024 City Commission Packet
 2. Parks and Recreation Board Rules and Regulations
- VIII. Miscellaneous Communications**
 1. City of Birmingham Pickleball Courts, Kevin and Tricia Meade, received 7/15/24
- IX. Reports From Staff**
 1. Manor Park No-mow Demonstration Areas
- X. Items for Next Meeting-September 10, 2024**
 1. National Parks and Recreation Association (NPRA) - Benchmarking

XI. Adjournment

Individuals requiring accommodations, such as interpreter services, for effective participation in this meeting should contact the City Clerk's Office at (248) 530-1880 at least one day in advance of the public meeting.
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).

*If you cannot attend the meetings, please contact Connie Folk at the Birmingham Ice Arena (248) 530-1642.
Minutes are available for review at the Birmingham Ice Sports Arena, 2300 East Lincoln, Birmingham, MI 48009*

PARKS & RECREATION BOARD MISSION STATEMENT

The Parks and Recreation Board strives to provide opportunities for the enjoyment, education, and inspiration for present and future generations of residents and visitors through stewardship of natural, cultural and recreational resources. By continuously elevating the beauty and quality of the parks and recreation system of Birmingham, the Parks and Recreation Board will promote health and wellbeing, and strengthen the community.

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/98191466679> **Meeting ID:** 981 9146 6679
You may also present your written statement to:
City of Birmingham, Parks and Recreation Board
851 South Eton, Birmingham, Michigan 48009 prior to the meeting.

PARKS AND RECREATION BOARD MEETING MINUTES
July 9, 2024

Heather Carmona called the meeting to order at 6:30 pm at 851 South Eton.

MEMBERS PRESENT:

Susan Collins
Pam Graham
Steve Sweeney
Anne Lipp
Jessica Einstein
Sarah Kupczyk
Heather Carmona

MEMBERS ABSENT:

Anne Lipp

**STUDENT REPRESENTATIVES
PRESENT:**

Ella Bassett, Orchard Lake St. Mary's
Preparatory School

ADMINISTRATION:

Scott D. Zielinski, Director DPS
Carrie A. Laird, Parks and Recreation Manager
Connie J. Folk, Ice Arena and Facilities
Superintendent
Brendan McGaughey, Parks and Forestry
Foreman
Brad McNab, Parks and Recreation Assistant
Foreman
Andrea Swanson, DPS Office Coordinator

PRESENTERS:

NONE

GUESTS:

Jack Burns, Narlu Castellano, Joseph Wrobel,

**ANNOUNCEMENTS, INTRODUCTIONS OF GUESTS & CHAIRPERSON
COMMENTS:**

Carmona commented on how nice the new granite benches are on Maple Road.

Ad Hoc Senior/Recreation Center Committee (SCC)-Update

Graham stated that the committee hired architects to define the programming and determine the design and costs for renovation or a complete new building be.

DPS Director Zielinski discussed how the building would affect the surrounding park and how the park would be programmed.

OPEN TO THE PUBLIC FOR ITEMS NOT ON THE AGENDA:

Burns asked about the parking situation that will be included in the new facility.

APPROVAL OF THE MINUTES:

It was moved by Graham, seconded by Collins, to approve the minutes of the Tuesday, June 4, 2024 regular meeting as submitted.

Ayes,

Susan Collins, Pam Graham, Steve Sweeney,
Jessica Einstein, Joseph Wrobel, Heather
Carmona, and Sarah Kupczyk

Nays,

None

Absent,

Anne Lipp

UNFINISHED BUSINESS:

No items presented

New Business #1: Booth Park Entry Plaza & Trail Improvements Update

PM Laird explains since the last meeting the dept. sent the plan for review by the Multi-Modal Transportation Board.

PM Laird stated the preliminary landscape concept plan was anticipated to be on the Multi-Modal Transportation Board (MMTB) agenda at their June 6, 2024 meeting (Agenda), however, the meeting was canceled due to lack of quorum. The department requested the MMTB provide a review as soon as they are able.

PM Laird stated the Planning Board provided a courtesy review at their June 26, 2024 meeting. PM Laird shared an updated version of the Booth Park Entry Plaza and Trail plan.

The Planning Board provided the following feedback:

- Possibly tie in neighborhood identifiers on signage for example, "Millpond"/business district identifiers such as "Market North" from the (2040 Plan).
- Consider swapping the food cart area with the restroom area and the Planning Board is strongly against a pre-fab restroom
- Consider a pathway of some sort to the south of the entry corner, a cut through from Old Woodward if you are coming from the south.

PM Laird stated to the Parks and Recreation Board designs of restroom facilities for Booth Park are in development.

PM Laird shared with the Parks and Recreation Board local pre-fab public restrooms that they could visit.

Sweeney stated his concern providing electrical service to food trucks since most food trucks are self-sufficient. PM Laird pointed out that there is never enough electrical service in a park setting.

DPS Director Zielinski stated that a general design plan for Booth Park will go to City Commission in mid-August which will drive the department for final drawings.

No Action Needed

New Business #2: Crestview Pickleball Courts

PM Laird stated at previous Parks and Recreation Board sound mitigation was discussed for Crestview Pickleball courts. The department sent out bids for sound barriers and five quotes were received by staff and are included in the packet.

PM Laird stated that complaints received include noise, parking, and enforcement of rules and regulations among others. Noise has been a frequent and viable complaint, especially in close proximity to the courts, on the southern end.

PM Laird said the sound barrier will be attached to the existing 12 foot chain link fence.

Staff recommends the product be installed by the vendor to ensure both timely completion and proper installation methods are completed. O'Neill Engineered Systems provided an installation quote and two options for barriers. Only one other vendor provided an installation cost and it's double the installation cost from O'Neill. O'Neill was very responsive, provided follow up information, and is a local supplier of Sound Seal, a recommended vendor provided during the pickleball webinar.

DPS Director Zielinski stated for these reasons, staff is recommending a sound barrier product from O'Neill Engineered Systems to be placed on the southern end only of the courts.

Graham is not in favor of the installation of the sound barrier at the Crestview pickleball courts, since anyone in a second story house would see and hear the pickleball users.

Bassett stated that she thinks that pickleball is very much a trend and thinks by the time the department arrives at the three year if pickleball will be a thing anymore.

Burns does not think Poppleton Park tennis court is a good fix and that there are home within 100ft. of Poppleton Park Tennis court. And there is baseball field that is heavily used.

It was moved by Collins, seconded by Kupczyk to direct staff to proceed with evaluating and receiving costs with city manager approval, a 15ft. fence at Crestview pickleball courts that effectively mitigates sound for a second story home.

Ayes,

Susan Collins, Jessica Einstein,
Heather Carmona and Sarah Kupczyk

Nays,

Pam Graham and Steve Sweeney

Absent,

Anne Lipp

MISCELLANEOUS COMMUNICATIONS:

No items presented.

REPORTS FROM STAFF:

Portable Toilets Located in City of Birmingham Parks:

Folk presented to the Parks and Recreation Board the historical information on installation of portable toilets in the City of Birmingham parks and the high quality service that is received from Turner Sanitation.

ITEMS FOR NEXT MEETING:

- National Parks and Recreation Association (NRPA) benchmarking
- Manor Park sustainability planting demonstration areas

Chair Carmona stated the next regular meeting will be held on Tuesday, August 13 2024 at 6:30 pm, at 851 South Eton.

Chair Carmona adjourned the meeting at 8:12 pm

Andrea Swanson, DPS Office Coordinator



MEMORANDUM

Department of Public Services

DATE: August 9, 2024

TO: Parks and Recreation Board

FROM: Carrie Laird, Parks & Recreation Manager

SUBJECT: Booth Park Entry Plaza and Trail Improvements Update

Preliminary designs for the Booth Park Entry Plaza & Trail Improvements will be presented at the August 12, 2024 City Commission meeting. The designs are based upon all engagement thus far including the Parks and Recreation Board Public Input Session, various boards and committees, the survey that was available on Engage Birmingham during the month of May, staff input, and from reviewing the City's other plans and initiatives.

We've reached a point in the design process where it's time for direction from the City Commission (as requested) on certain design elements such as the restroom facility, the parking on Old Woodward closest to Harmon, any other feedback they have, and to determine the amount of dollars the City should spend on this project as project costs are higher than estimated and what was budgeted for the project which is \$900,000.

Attached is the packet included in the August 12, 2024 City Commission agenda. Staff will update the Parks and Recreation Board at their August 13, 2024 meeting on the results.



MEMORANDUM

Department of Public Services

DATE: August 9, 2024

TO: Jana L. Ecker, City Manager

FROM: Carrie Laird, Parks and Recreation Manager
Scott Zielinski, DPS Director

SUBJECT: Booth Park Entry Plaza & Trail Improvements

INTRODUCTION:

The preliminary landscape design plan for the Booth Park Entry Plaza & Trail Improvements project has been routed to the appropriate boards and committees for review and comment following a public engagement period (May 2024) on Engage Birmingham and a public input session at the Parks and Recreation Board. The City Commission expressed interest in providing commentary at a certain point during the design process and before any further progression of design occurs, and this serves as a check-in point with the City Commission to garner any additional comment or feedback on the plan.

BACKGROUND:

The Parks and Recreation Bond (approved by Birmingham voters in November of 2020) Priority List includes Trail Improvements and the Booth Park Corner Feature. Since then, a Trail Improvements Concept Plan (TICP) was developed and accepted by the City Commission in September of 2023 ([Agenda/Minutes](#)). The Commission also approved moving forward with the first phase for improvements, the Booth Park section of the plan at that time.

At the March 18, 2024 City Commission Meeting ([Agenda/Minutes](#)), Grissim Metz Andriese Associates was selected to perform professional design services for the Booth Park Entry Plaza and Trail Improvements project.

Following a kick off meeting at the Parks and Recreation Board in April of 2024, a preliminary plan was first introduced at a public input session at the Parks and Recreation Board on May 7, 2024 ([Agenda/Minutes](#)). This preliminary plan was available to the public on Engage Birmingham by way of survey from May 9, 2024 through May 31, 2024. The Parks and Recreation Board provided additional input at their June meeting ([Agenda](#)) and the plan has continued to be an

ongoing agenda item at Parks & Recreation Board meetings over the summer months. It has been routed for review and comment by City staff and various boards and committees such as the Wayfinding Committee, the Birmingham Shopping District Maintenance Committee, and the Planning Board during the month of June.

Topics most often discussed during public engagement include the restroom, accessibility enhancements and safety and security measures including lighting and cameras. Much of the feedback, including from the Planning Board at their June 26, 2024 meeting ([Agenda/Minutes](#)), was regarding the restroom, and in favor of a custom restroom facility rather than the prefabricated style. BSD Board agreed at their August meeting.

FISCAL IMPACT:

The approved 2024-2025 City Budget allocates \$900,000.00 for the Booth Park Entry Plaza and Trail Improvements project. The preliminary park budget estimate dated 8-6-2024 is a total of \$1,521,748.75 which includes either the custom stick built “bespoke” restroom option, recommended by both the Parks and Recreation Board and the Planning Board or the customized prefabricated restroom. We have clarified that there would be no significant cost savings with a custom prefabricated unit and a custom building.

Grissim, Metz, Andriese Associates has prepared the cost estimate laying out the “base” total of \$1,064,698.75 (including 15% contingency) for items originally called out in the TICP, including a pre-fab restroom. The other items not part of this “base” arose from the public engagement process and other City initiatives such as wayfinding currently underway.

The City could plan to provide donation opportunities as part of this project. These may include site amenities such as benches, tables and chairs, picnic tables, hammocks and landscaping features. These types of donation items could amount to approximately \$200,000.00. In addition, the overlook area at the rain garden can also be a potential donation item for a total estimate of \$109,450.00. The Department of Public Services (DPS) has already been working with a donor for a walkway and seating area in the amount of \$24,880.00, pending a finalized agreement.

The DPS currently has an application in review with the Michigan Department of Natural Resources (MDNR) for a Trust Fund Grant for the amount of \$266,000.00, based on the TICP estimate of \$543,400.00. Our match will now be at least 70%. Note that increasing the match amount to above 51% (our original match amount) will not add any additional points in the scoring of our application. However, we will have an opportunity to update our application with an updated plan and current costs and plan to do so. If we want to change the requested amount, we are able to do so at the same time, with a new approved resolution by the City Commission.

SUSTAINABILITY:

The design incorporates a rain garden with native plantings and permeable pavers. Recycled and durable materials will be considered for site furnishings such as benches, tables and litter/recycling containers.

DESIGN CONSIDERATIONS:

Booth Park with its proximity to the Rouge River, elevation changes, events and custom playground is a desirable location for visitors. The need is great for a restroom facility at this location. Placing the restroom in the right location just may be the most important design

consideration of this project. It should be visible for safety and security, but not positioned in such a way that diminishes the natural beauty of the park.

The need for greater accessibility has been considered throughout the design process thus far, including accessible restrooms, seating, and scenic areas.

Discussions have gone back and forth as to whether if we should eliminate parking spaces at the corner along Old Woodward to open up the view of the entrance.

Trail material has been revisited in great detail as there is the potential for this material to be utilized for future trail improvements. The proposed crushed limestone has more fine particles than the City's current crushed limestone found currently at Booth Park and at Quarton Lake, contributing to greater accessibility. Our consultant has informed us that on other projects they have found that it stays in place better and does not require edging. An example of a location with this material is Beverly Park where they utilize the same product.

The signs designed for Booth Park will serve as a template for future park signs with the new City logo.

PUBLIC COMMUNICATIONS:

This project has been promoted through the City's website and social media platforms, the Around Town newsletter, the DPS Open House, and at Parks and Recreation Board meeting agendas since April 2024. An online survey on Engage Birmingham was available during the month of May.

SUMMARY:

The DPS is requesting a review by the City Commission prior to finalizing the construction plans. The DPS is seeking comments on design options and clarification as to whether we should make adjustments for budget purposes. DPS notes that it is possible to phase items such as trees and site furnishings should the Commission wish to postpone items in consideration of the budget. The DPS intends to have the Commission review the final construction plans for approval at a later date.

ATTACHMENTS:

- Presentation from Grissim, Metz, Andriese Associates
- Booth Park Plaza and Trail Improvements Drawings for Commission Review
- Cost Estimate dated August 6, 2024
- City Staff review comments
- Memos from Planning Director, Nicholas Dupuis: May 15, 2024 and February 26, 2024
- Engage Birmingham Summary Report

SUGGESTED COMMISSION ACTION:

To direct staff to proceed with the finalization of drawings for construction for final review and approval by the City Commission as designed, incorporating ALL elements of the landscape plan, and selecting the (choose one: prefabricated, custom prefabricated, custom "bespoke") option for the restroom facility and (choose one: eliminating/keeping) the 4 spaces for parking.

OR,

To direct staff to complete the design of construction drawings for the project for final review and approval by the City Commission, with the following budget restrictions: (list items to remove, or adjusting target budget) and selecting the (choose one: prefabricated, custom prefabricated, custom “bespoke”) option for the restroom facility and (choose one: eliminating/keeping) the 4 spaces for parking.

BOOTH PARK

BIRMINGHAM, MICHIGAN

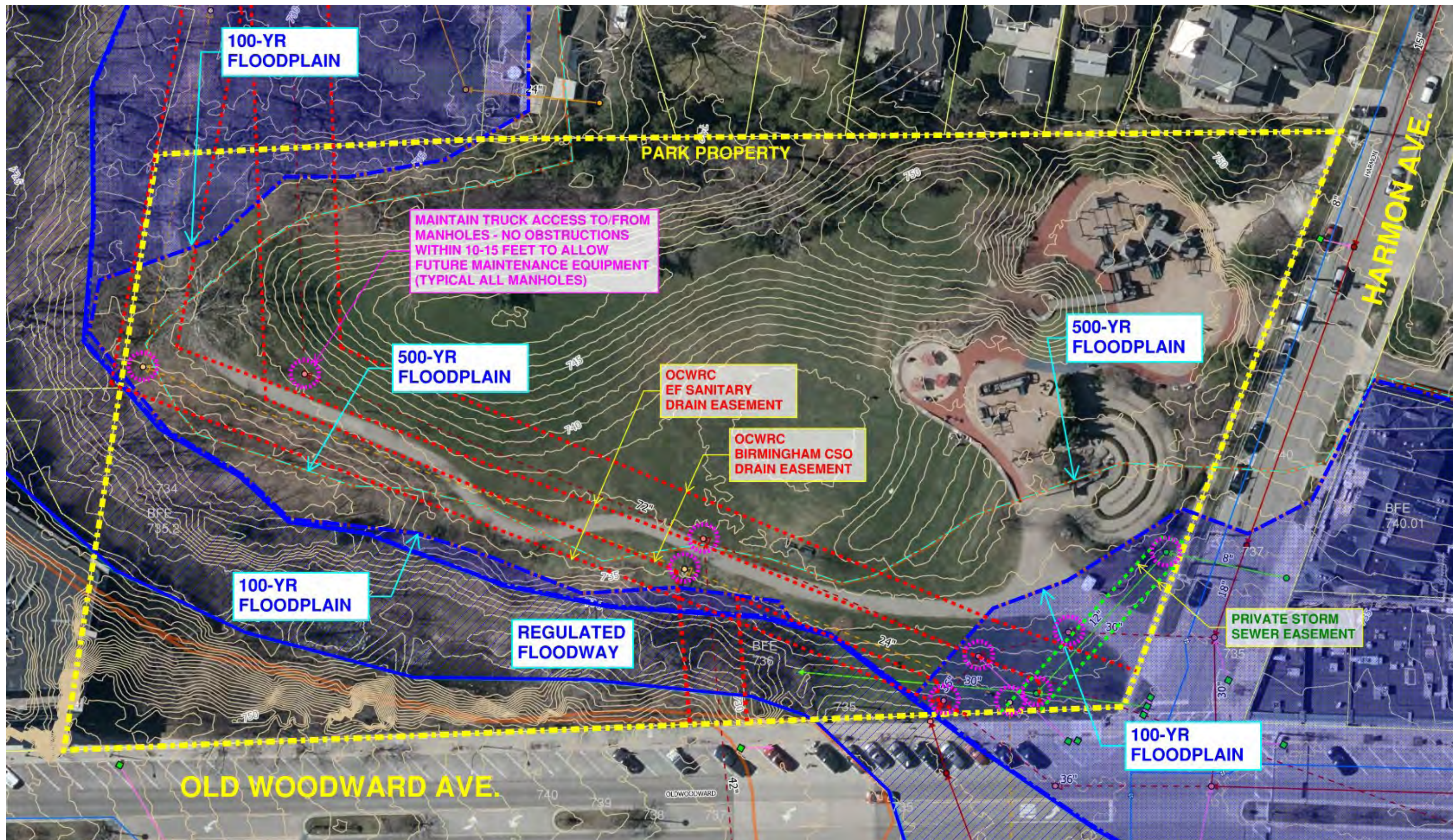
PRELIMINARY DESIGN

08.06.2024

GRISSIM
METZ ASSOCIATES
ANDRIESE



PETERHANS, REA + ROMAN · LLC





Note Key

1. Entry plaza with special paving, seatwalls, movable furniture with umbrellas and art display
2. Restrooms
3. Bike racks and stroller parking
4. Open plaza with special paving, space for activities, coffee cart, food trucks and movable bistro seating to allow for vehicle access
5. Park signage
6. New driveway cut for vehicular access
7. Boardwalk with interpretive signage
8. Rain garden / bioswale (to capture runoff, includes educational signage and demonstration areas)
9. Entry to the existing playground
10. Benches
11. Lounge chairs on the existing lawn ridges
12. Temporary stage / movie screen location
13. Selectively clear vegetation and remove fencing to open view to river
14. Donor benches with customized walk and butterfly garden
15. Trail gateway customized column with signage and planting surround
16. Pollinator garden
17. 10' wide concrete walk
18. 8' wide trail with composed of limestone screenings
19. Hammocks
20. Picnic tables
21. Outdoor gym
22. Swings
23. Landscape beds
24. New canopy trees
25. Existing trees
26. Path down to the river for fishing
27. Stepping stone path through rain garden
28. Lawn



Booth Park
Birmingham, Michigan

Preliminary Design
Landscape Plan
08.06.2024

**GRISSIM
METZ
ANDRIESE** ASSOCIATES
PETERHANS, REA + ROMAN · LLC

HRC

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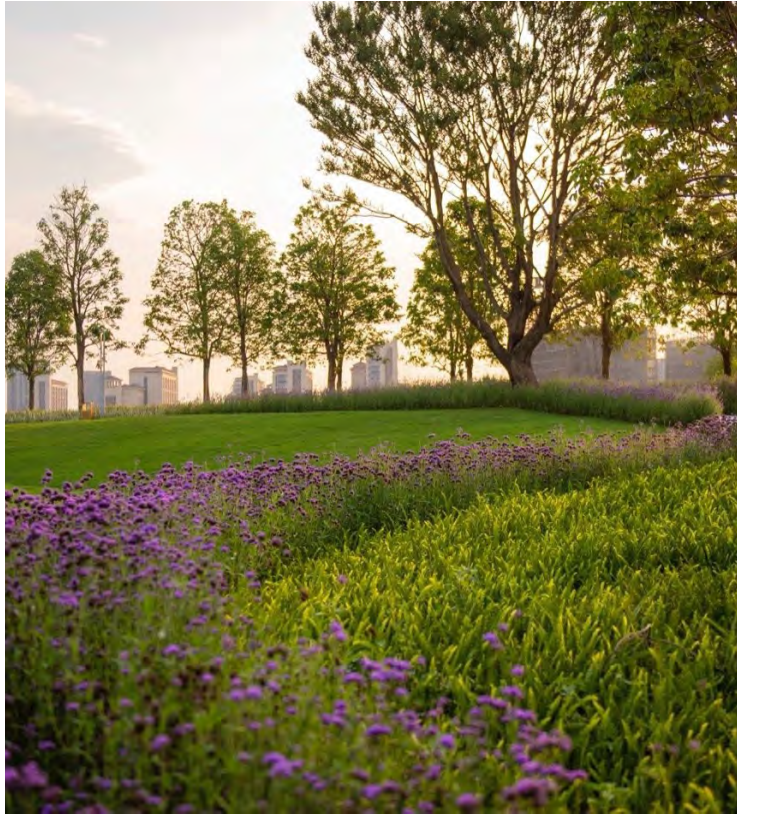
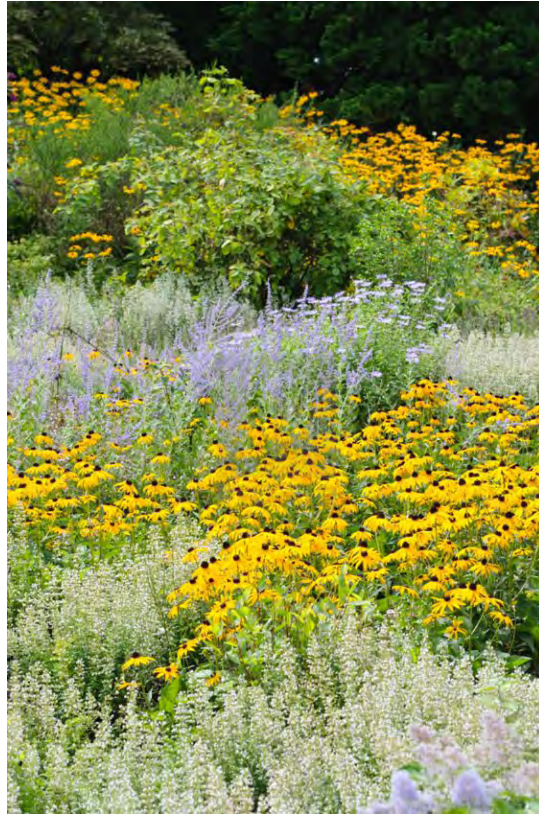


Booth Park
Birmingham, Michigan

Preliminary Design
Landscape Plan
08.06.2024

**GRISSIM
METZ
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PETERHANS, REA + ROMAN • LLC

HRC



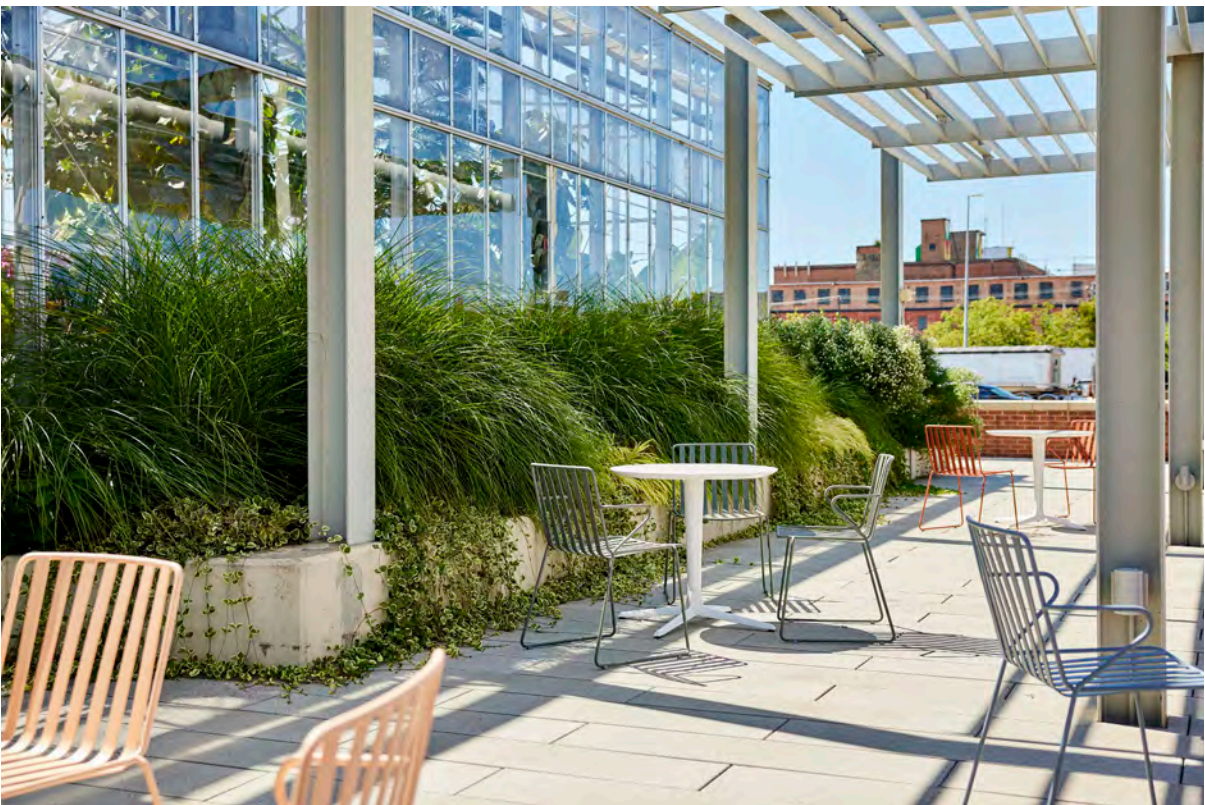




Solid Top Seats - Company: Streetlife



Classic Bike U Rack - Company: CycleSafe Inc.



Set of Every Day Chair and Chipman Table - Company: Landscape Form



Existing Booth Park's bench



Existing Barnum Park's bench



Solid Staple Benches - Company: Streetlife



Thornbury Pavers - Company: Unilock



ECO-PRIORA Pavers - Company: Unilock



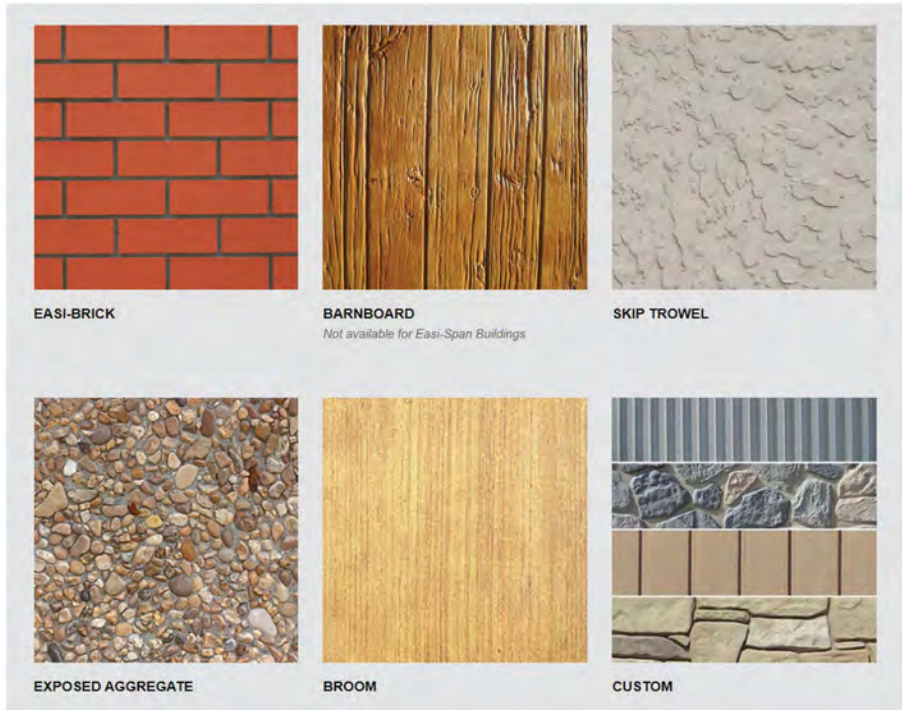
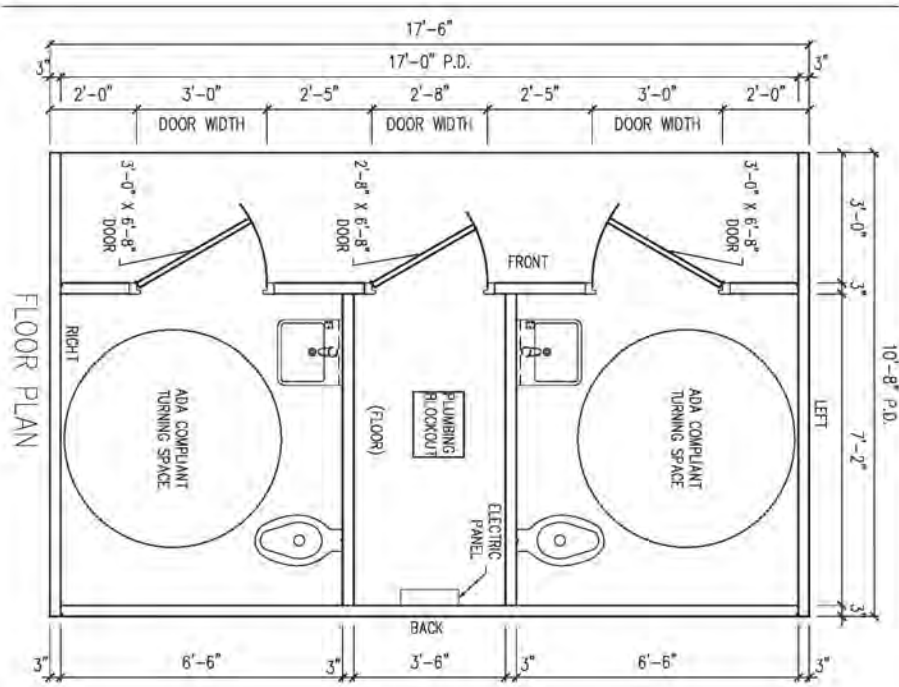
Unilock Fossil Smooth Treo Pavers

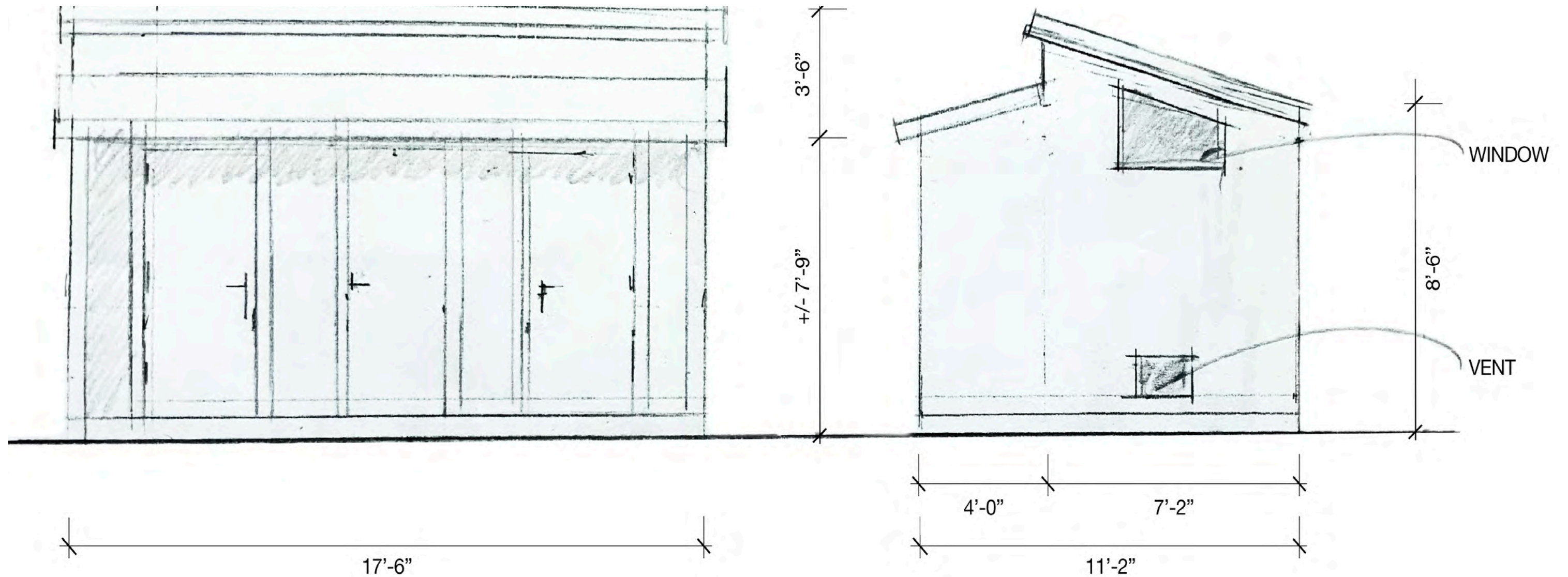




RESTROOM BUILDING

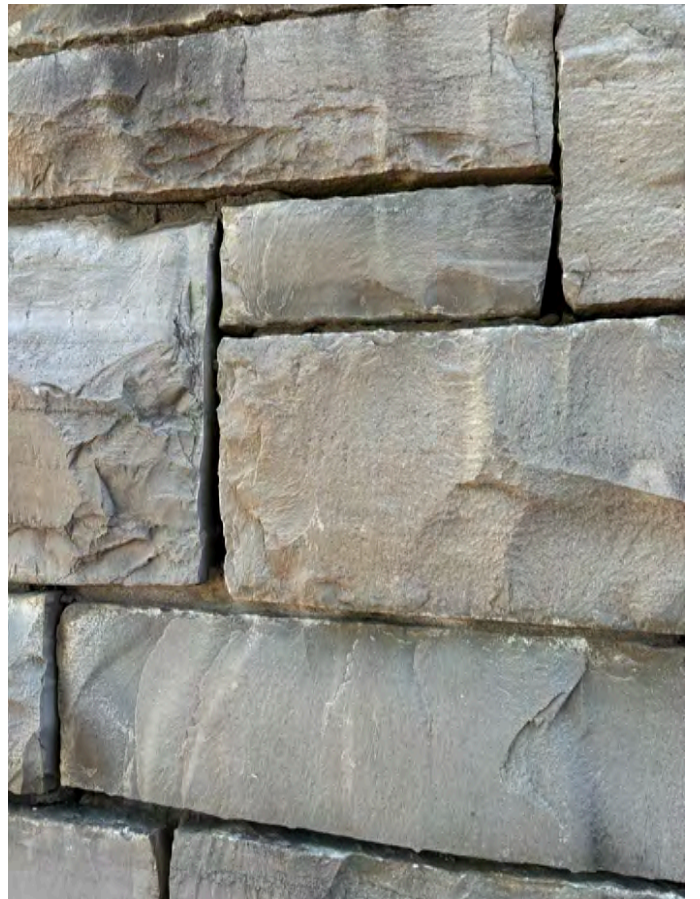
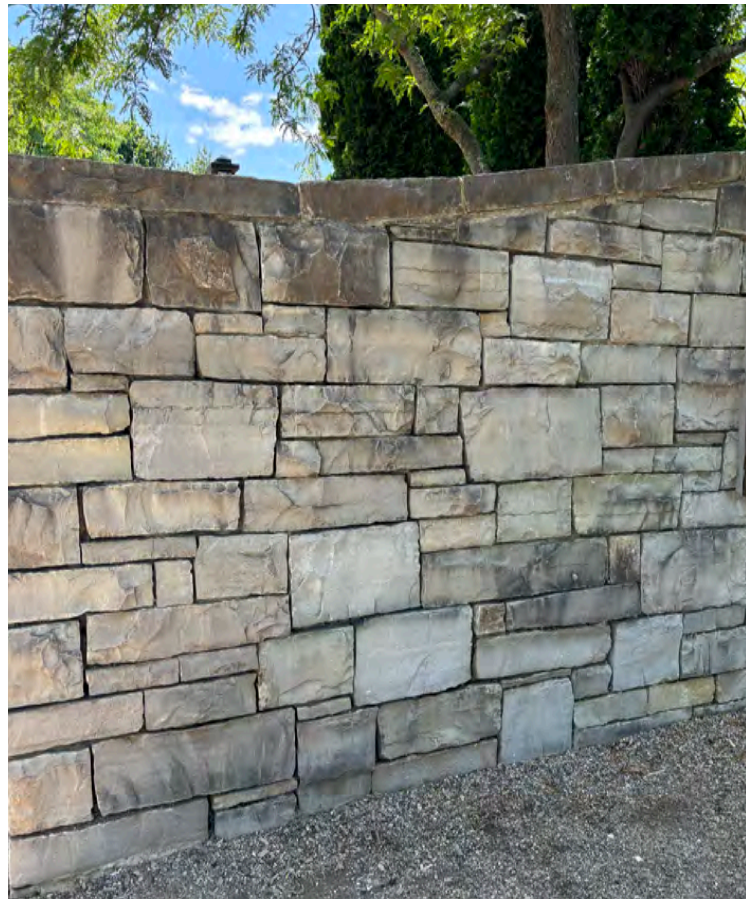
PRE-FABRICATED











BESPOKE BIRMINGHAM INFO.

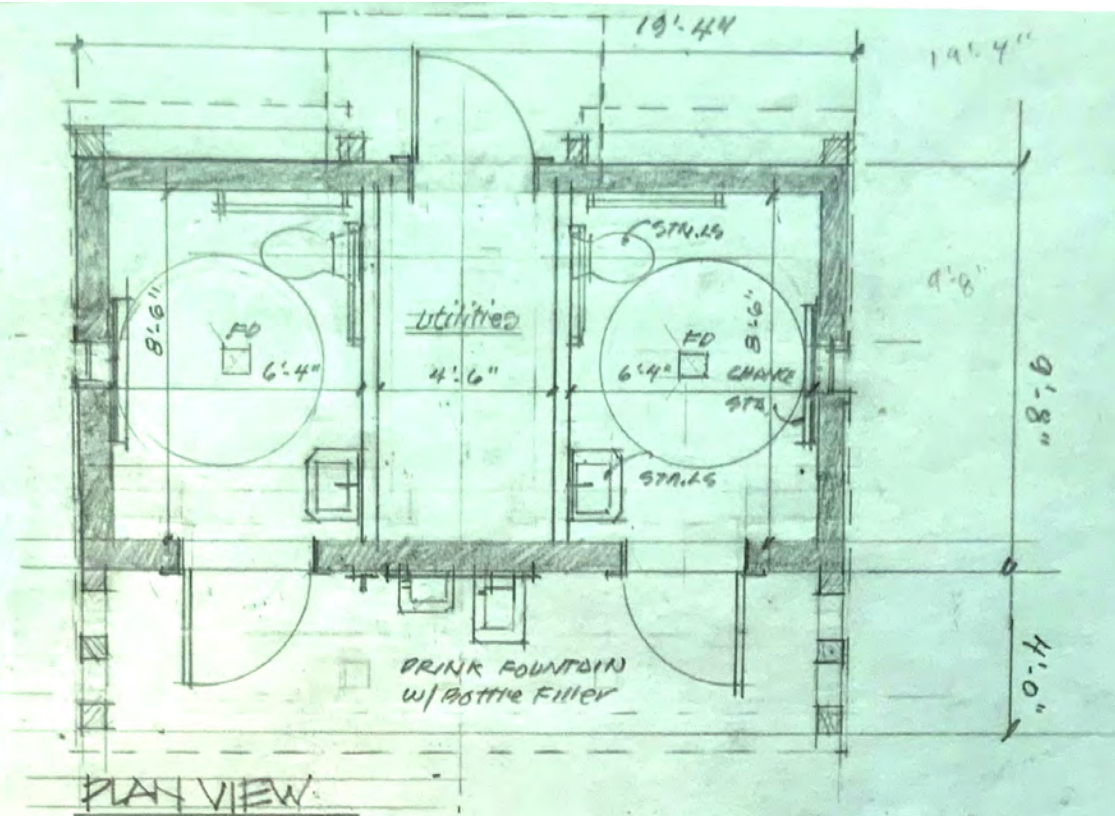
• EXTERIOR

- POURED CONCRETE SLAB WITH REED. UTILITIES
- COLORED/TEXTURED CMU-WALLS
- ROOF-DIMENSIONAL ASPHALT SHINGLES
- CEDAR WOOD COLUMNS, BRACKETS & TRIM
- THERMO-TREATED WOOD DOORS, PANEL & TRIM
- APPLIED CUT-OUT METAL CRESCENT, MON. TRIM
- SPECIAL DOOR PULLS - SECURITY HARDWE. TBD.
- SPECIAL SCREEN TRIM @ VENTS

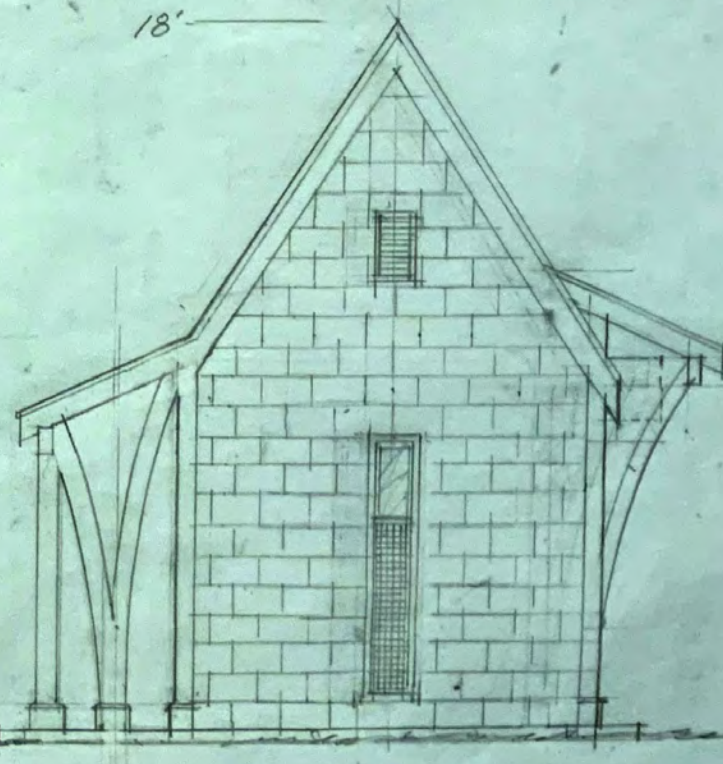
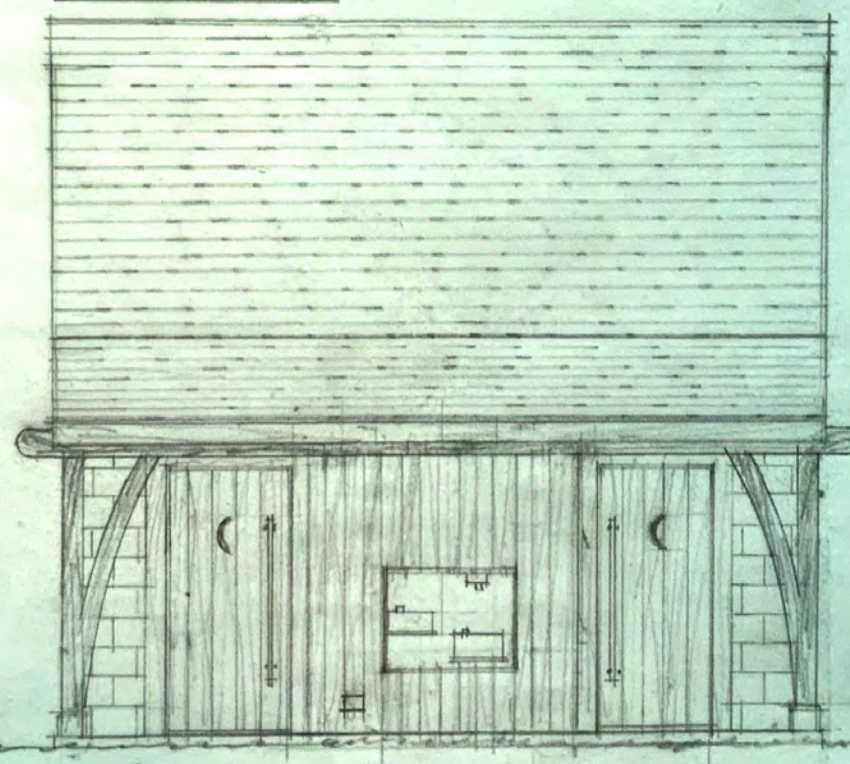
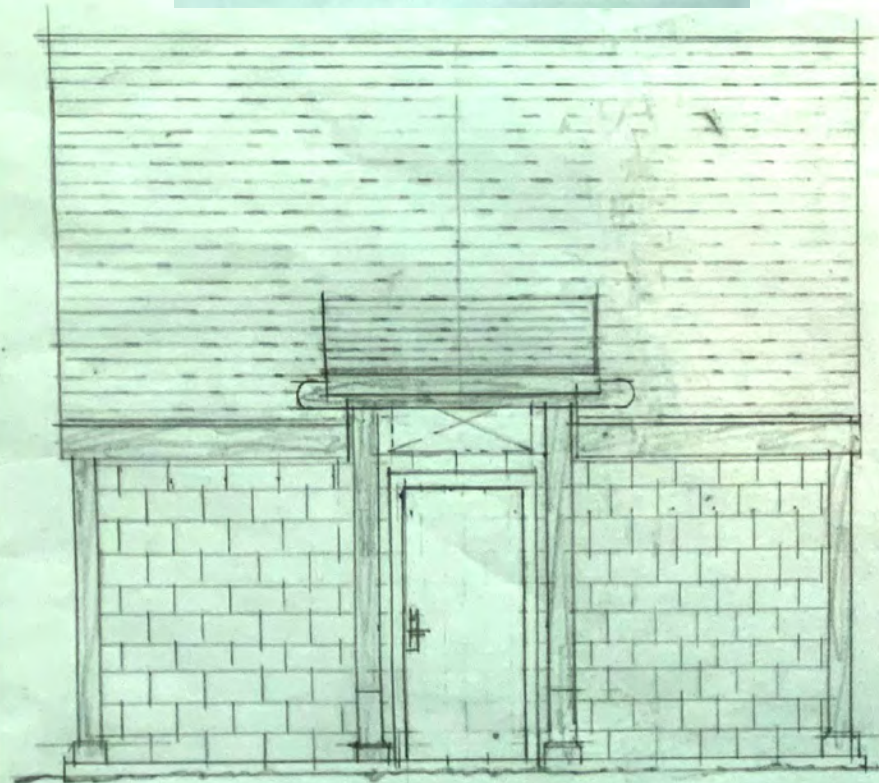
• INTERIOR

- FLOOR-PATTERNED MOSAIC TILE
- WALLS-CERAMIC SUBWAY TILE W/ACCENTS
- CEILING-DRY WALL PAINTED
- EQUIPMENT-STAINLESS TOILET & SINK, GRAB BARS, CHANGING TABLE, - EXTERIOR DRINKING FOUNTAINS W/BOTTLE FILLER, ROSE BIRCH SPLIT 246, HVAC.

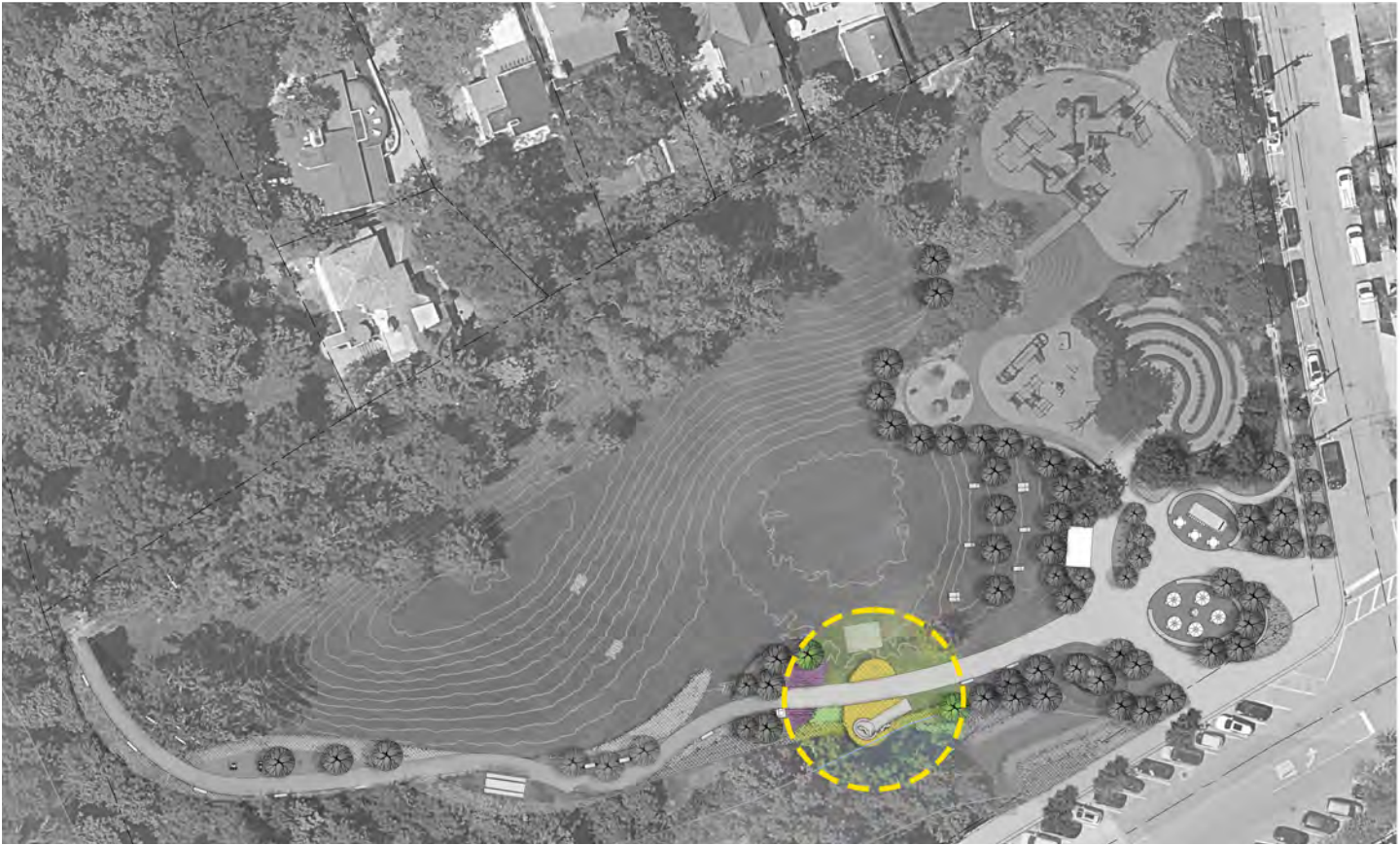
*NOTE: THIS IS PRELIMINARY SCHEMATIC INFO. WITH THE INTENT TO ESTABLISH REALISTIC BUDGET FOR FINAL BUILD-OUT.



15'-8"
15'-10"
15'-12"



BESPOKE BIRMINGHAM VERSION
SCALE 1/4" = 1'-0"



Location of Donor Seating

Note Key

1. Exposed aggregate concrete runway with fashion quotes inlays
2. Owner donor plaque
3. Butterfly benches
4. Butterfly plant material surround
5. Retaining wall may be required



Note Key

1. Entry plaza with special paving, seatwalls, movable furniture with umbrellas and art display
2. Restrooms
3. Bike racks and stroller parking
4. Open plaza with special paving, space for activities, coffee cart, food trucks and movable bistro seating to allow for vehicle access
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25. Existing trees
26. Path down to the river for fishing

Signage Legend

- A. Existing park playground sign wall to remain
- B. Historical marker (about park or museum)
- C. Park sign
- D. Sustainable/nature information
- E. Donor plaque (inset in pavement)
- F. Trail sign
- G. Low sign along trail providing additional plant, river or nature information



Booth Park
Birmingham, Michigan

Preliminary Design
Signage Plan
08.06.2024

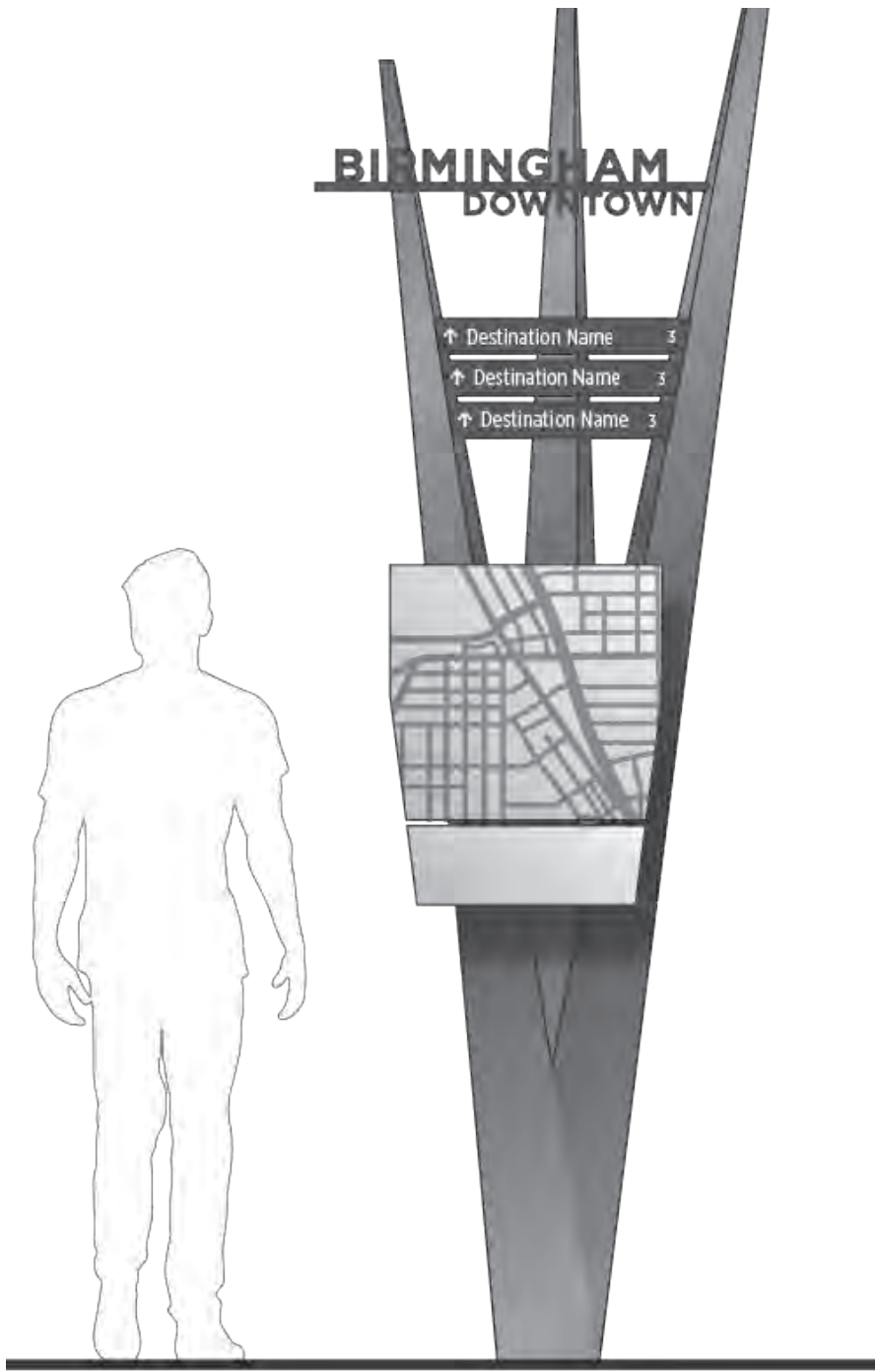
**GRISSIM
METZ
ANDRIESE**
ASSOCIATES



PETERHANS, REA + ROMAN · LLC



QUARTON LAKE PARK



WAYFINDING AND SIGNAGE (Master Plan Feb. 2024)



A. - Existing park playground sign wall to remain



Existing playground sign to be replaced?



Should this sign match signs in Birmingham's Historical Marker program?

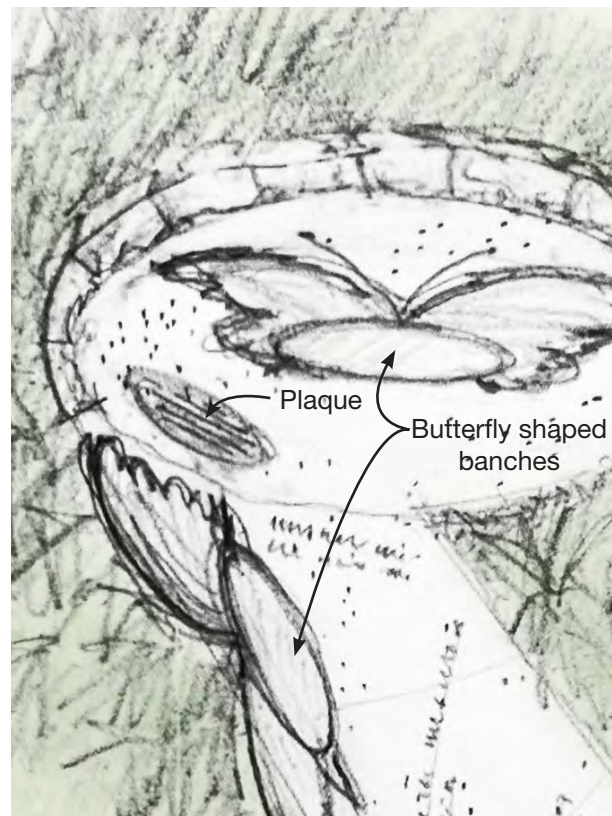
B - Historical marker (about park or museum)



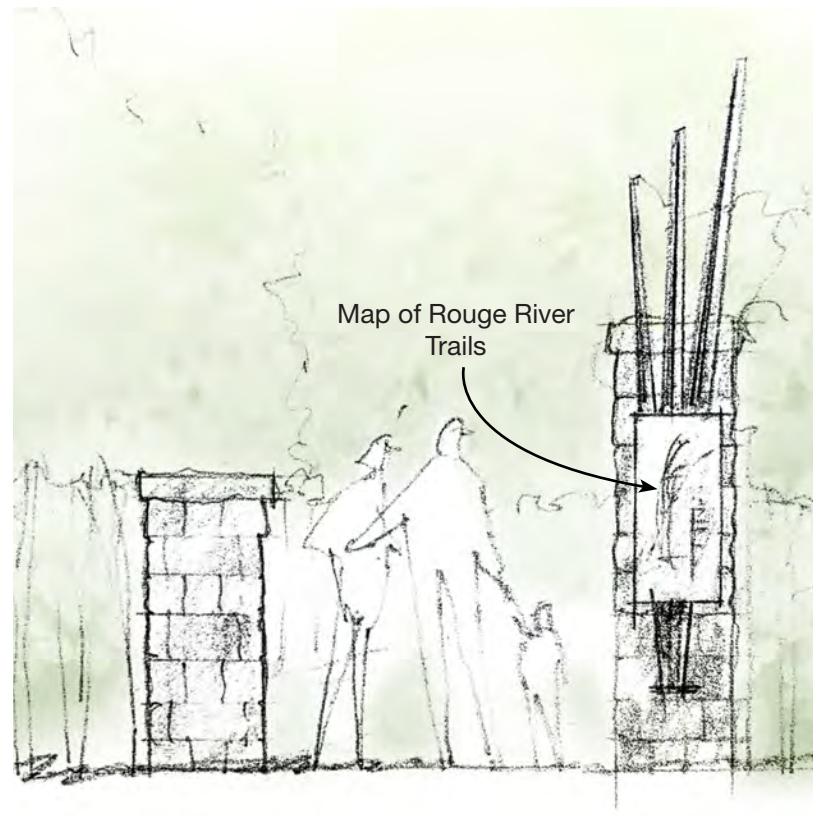
C - Park sign



D - Sustainable/nature information



E - Donor plaque custom design (inset in pavement)



F - Trail sign



G - Low sign along trail providing additional plant, river or nature information





15000 Edward N. Hines Dr., Suite A
Plymouth, MI 48170
gma-la.com | 248. 347. 7010



Landscape Architecture
Park & Recreation Planning
Architecture • Urban Design
Sports Facility Planning

August 6, 2024

Booth Park

Birmingham, Michigan

Park Preliminary Budget Estimate - Working Draft

<u>General Conditions</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Mobilization			Lump Sum	\$ 30,000.00
Insurance, Permits, and Bonds (8.5%)			Lump Sum	\$ 65,700.00
Layout and Staking			Lump Sum	\$ 10,000.00
General Conditions (5%)			Lump Sum	\$ 38,700.00
General Conditions Sub-Total				\$ 144,400.00

<u>Site Preparation & Removal</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Soil Erosion & Sedimentation			Lump Sum	\$ 5,000.00
Site Preparation & Grading	4,800	sy.	\$ 3.00	\$ 14,400.00
Tree Removals			Lump Sum	\$ 2,000.00
Curb and Concrete Pavement Removal	330	sy.	\$ 10.00	\$ 3,300.00
Site Preparation & Removal Sub-Total				\$ 24,700.00

<u>Trail Entry</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Stone Column, 7 1/2' ht.	1	ea.	\$ 15,000.00	\$ 15,000.00
Stone Column, 5' ht.	1	ea.	\$ 12,000.00	\$ 12,000.00
Special Pavement	80	sf.	\$ 40.00	\$ 3,200.00
Trail Entry Sub-Total				\$ 30,200.00

<u>Plaza and Trail Improvements</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Asphalt Pavement Repair	25	sy	\$ 90.00	\$ 2,250.00
Concrete Paving, 6" depth	5,510 *	sf.	\$ 10.00	\$ 55,100.00
Concrete Paving, 4" depth	1,900	sf.	\$ 7.00	\$ 13,300.00
Concrete Seatwall with Wood Slat Seating	83	lf.	\$ 500.00	\$ 41,500.00
Concrete Seatwall without Wood Slat Seating	70	lf.	\$ 200.00	\$ 14,000.00
Permeable Pavers in Main Plaza	840	sf.	\$ 40.00	\$ 33,600.00
Precast Pavers in Secondary Plaza	600	sf.	\$ 30.00	\$ 18,000.00
Park Entrance Sign	1	ea.	\$ 5,000.00	\$ 5,000.00
Curb and Gutter and Asphalt Repair	170	lf.	\$ 55.00	\$ 9,350.00
Crushed Stone Trail	3,000	sf.	\$ 3.50	\$ 10,500.00
Benches	2	ea.	\$ 3,000.00	\$ 6,000.00
Planter Curb	170	lf.	\$ 35.00	\$ 5,950.00
Bollards	6	ea.	\$ 1,000.00	\$ 6,000.00
Plaza and Trail Improvements Sub-Total				\$ 218,300.00

CITY OF BIRMINGHAM

ROUGE RIVER TRAIL IMPROVEMENTS

ORDER OF MAGNITUDE COST ESTIMATE

August 1, 2023

BOOTH PARK IMPROVEMENTS

GENERAL CONDITIONS				
Mobilization	LS	1	\$15,000.00	\$15,000.00
Insurance, Permits, and Bonds	LS	1	\$20,000.00	\$20,000.00
Project Sign	LS	1	\$2,000.00	\$2,000.00
Layout and Staking	LS	1	\$10,000.00	\$10,000.00
General Conditions (M, O & P @5%)	LS	1	\$29,979.00	\$29,979.00
SUBTOTAL				\$76,979.00

SITE PREPARATION AND REMOVALS				
Soil Erosion & Sedimentation	LS	1	\$10,000.00	\$10,000.00
Site Preparation & Grading	SY	3,494	\$5.00	\$17,470.00
Concrete and Curb Removal	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL				\$29,470.00

TRAIL ENTRY				
Columns	EA	2	\$15,000.00	\$30,000.00
Granite Pavers	SF	320	\$60.00	\$19,200.00
SUBTOTAL				\$49,200.00

PLAZA IMPROVEMENTS				
Concrete Plaza Paving (6" depth)	SF	5,966	\$10.00	\$59,660.00
Seat Wall Curb Planter	LF	70	\$350.00	\$24,500.00
Entrance Sign	LS	1	\$15,000.00	\$15,000.00
Cobblestone Pavers	SF	1311	\$25.00	\$32,775.00
Curb and Gutter Patch	LS	1	\$5,000.00	\$5,000.00
Crushed Stone Trail	SY	268	\$18.00	\$4,824.00
Timber Edging	LF	612	\$30.00	\$18,360.00
Bench	EA	2	\$3,000.00	\$6,000.00
SUBTOTAL				\$166,119.00



Landscape Architecture
Park & Recreation Planning
Architecture • Urban Design
Sports Facility Planning

* deduct \$20,000 if omit new walk replacing (4) on street parking spaces

<u>Restroom Building</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Basic Pre-Fabricated Restroom Building			Allowance	\$ 139,500.00
Plumbing & Fixtures (W&WW)			Allowance	\$ 14,500.00
Electric & Lighting			Allowance	\$ 14,500.00
HVAC			Allowance	\$ 20,000.00
Drinking Fountain at Building	1	each	\$ 8,000.00	\$ 8,000.00
Water Service Connection at Building			Lump Sum	\$ 2,000.00
Sanitary Service Connection at Building			Lump Sum	\$ 3,500.00
Electric Line and Connections (New Service for Restrooms)	150	lf	\$ 50.00	\$ 7,500.00

Restroom Building Sub-Total \$ 209,500.00

<u>Landscape & Irrigation</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Shade Trees (3" cal.)	29	ea.	\$ 700.00	\$ 20,300.00
Demonstration Planting Area	2,950	sf.	\$ 2.50	\$ 7,375.00
Planting Beds	9,080	sf.	\$ 15.00	\$ 136,200.00
Topsoil for Lawn (3" depth)	70	cy	\$ 45.00	\$ 3,150.00
Sodded Lawn	810	sy.	\$ 5.00	\$ 4,050.00
Repair Irrigation System			Lump Sum	\$ 10,000.00
Stepping Stones	23	ea.	\$ 50.00	\$ 1,150.00

Landscape & Irrigation Sub-Total \$ 182,225.00

<u>Lighting/Electrical Service</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Outdoor Rated Duplex Outlets	6	ea.	\$ 300.00	\$ 1,800.00
Security Lighting at Restrooms and Plaza			Lump Sum	\$ 20,000.00
Vendor Electrical Service			Lump Sum	\$ 2,500.00
Conduit for Future Charging Stations			Lump Sum	\$ 7,000.00

Lighting/Electrical Service Sub-Total \$ 31,300.00

<u>Storm Drainage Features</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Storm Sewer, PVC, 10 inch	70	lf	\$ 150.00	\$ 10,500.00
Manuf St Water Treatment Device	1	each	\$ 35,000.00	\$ 35,000.00
Underdrain, Perforated, 6 inch	270	lf	\$ 60.00	\$ 16,200.00
Drainage Structure, 4 ft dia with 2 ft sump	1	each	\$ 5,000.00	\$ 5,000.00
Drainage Structure, 2 ft dia with 1 ft sump	1	each	\$ 3,500.00	\$ 3,500.00

Storm Drainage Features Sub-Total \$ 70,200.00

<u>Water & Sewer Utilities</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Water Service, 1.5 inch, Type K Copper	60	lf	\$ 75.00	\$ 4,500.00

RESTROOM BUILDING

Easi Set Restroom	LS	1	\$120,000.00	\$120,000.00
Waterline and Connections	LF	118	\$85.00	\$10,030.00
Sanitary Line and Connections	LF	147	\$65.00	\$9,555.00
Electric Line and Connections	LF	172	\$55.00	\$9,460.00

SUBTOTAL \$149,045.00

LANDSCAPE IMPROVEMENTS

Tree Grates	EA	2	\$4,000.00	\$8,000.00
Trees	EA	2	\$750.00	\$1,500.00
Restoration Seeding and Topsoil	SY	285	\$3.50	\$997.50
Perennial Planting in Planter	LS	1	\$2,500.00	\$2,500.00

SUBTOTAL \$12,997.50

SUBTOTAL \$483,810.50

Design and Bidding Contingency (10%)	\$48,381.05
Construction Contingency (10%)	\$48,381.05
Professional Fees (9%)	\$52,251.53
Topographic Survey	\$6,000.00
Soil Borings	\$8,000.00
EGLE PERMIT	\$2,000.00

TOTAL \$648,824.13

ALTERNATE

Locate Restroom Farther to the South	LF	165	\$190.00	\$31,350.00
Traditional Restroom Building	LS	1	\$140,000.00	\$140,000.00



Sewer Service, 6 inch PVC	70	If	\$	150.00	\$	10,500.00
Water System Features Sub-Total				\$		15,000.00

Sub-Total	\$	925,825.00
Contingency 15%	\$	138,873.75
FINAL TOTAL	\$	1,064,698.75

<u>Overlook Area at Raingarden North of River</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Deck Overlook	700	sf	\$ 70.00	\$	49,000.00
Boardwalk Railing	55	If	\$ 350.00	\$	19,250.00
Seating	25	If	\$ 500.00	\$	12,500.00
Permeable Pavement, 18" depth stone base	820	sf.	\$ 35.00	\$	28,700.00
Overlook Area/ Rain Gardens Sub-Total				\$	109,450.00

<u>Restroom Options</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
<u>(add on costs to basic pre-fab unit)</u>					
Customized Pre-Fabricated Building	1	ea.	Lump Sum	\$	60,000.00
Built-on-Site Building "Bespoke" Design	1	ea.	Lump Sum	\$	60,000.00

<u>Site Furnishings/Amenities</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Benches	8	ea.	\$ 3,000.00	\$	24,000.00
Trash Receptacles	2	ea.	\$ 2,000.00	\$	4,000.00
Set of Table and 4 Chairs	8	ea.	\$ 2,500.00	\$	20,000.00
Umbrella, 10' diameter	5	ea.	\$ 2,000.00	\$	10,000.00
Dog Waste Station	2	ea.	\$ 600.00	\$	1,200.00
Bike Racks	8	ea.	\$ 300.00	\$	2,400.00
Site Furnishings/Amenities Sub-Total				\$	61,600.00

<u>Donor Walkway and Seating Area</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Exposed Aggregate Concrete Walkway	165	sf.	\$ 20.00	\$	3,300.00
Donor Butterfly Bench	2	ea.	\$ 6,000.00	\$	12,000.00
Fashion Statement Inscriptions & Plaque			Lump Sum	\$	2,500.00
Butterfly Plantings	400	sf.	\$ 9.00	\$	3,600.00
Irrigation			Lump Sum	\$	500.00
Precast Segmental Unit Retaining Wall	35	If.	\$ 80.00	\$	2,800.00
Donor Walkway and Seating Area Sub-Total				\$	24,700.00

<u>Additional Signage</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Historical Marker covering Park and City History	1	ea.	\$ 1,500.00	\$	1,500.00
Information on Sustainability and Nature	1	ea.	\$ 1,500.00	\$	1,500.00



Rouge River Trail Wayfinding Sign at Trail Gateway	1	ea.	\$	2,000.00	\$	2,000.00
Signs Along Trail with Information on Plantings, Wildlife and the River	6	ea.	\$	800.00	\$	4,800.00
Additional Signage Sub-Total					\$	9,800.00

Future Amenities/Landscape/Lighting

Picnic Tables, Large Communal	1	ea.	\$	17,000.00	\$	17,000.00
Hammocks with Posts Installed	2	ea.	\$	3,500.00	\$	7,000.00
Outdoor Gym Equipment, Installed				Allowance	\$	40,000.00
Unique Swings, Installed				Allowance	\$	14,000.00
28" Lounge Chairs for Lawn Waves, Installed in Footings	8	ea.	\$	6,800.00	\$	54,400.00
Trees Next to Playground & Waves	16	ea.	\$	700.00	\$	11,200.00
Uplighting for Significant features (Art, Sculpture, Etc.)				Lump Sum	\$	9,000.00
Future Amenities Sub-Total					\$	152,600.00

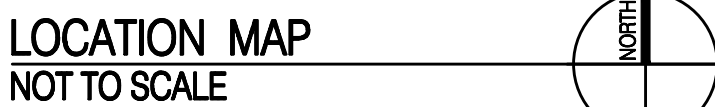
County Easement:

	<u>Qty.</u>	<u>Unit</u>		<u>Unit Price</u>		<u>Total</u>
Grass Stabilizer Grid to Provide Vehicular Access to Utility Structures	520	sy.	\$	25.00	\$	13,000.00

Scenic River Access Trail

	<u>Qty.</u>	<u>Unit</u>		<u>Unit Price</u>		<u>Total</u>
Select Clearing & Grubbing				Lump Sum	\$	7,500.00
Pathway Grading				Lump Sum	\$	12,500.00
Aggregate Base Course	50	ton	\$	45.00	\$	2,250.00
Crushed Stone Trail Surface	1,100	sf.	\$	3.50	\$	3,850.00
Ledgestone Landing	32	sf.	\$	400.00	\$	12,800.00
Scenic River Access Trail Sub-Total					\$	38,900.00

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Date: 08/06/2024



Landscape Architecture

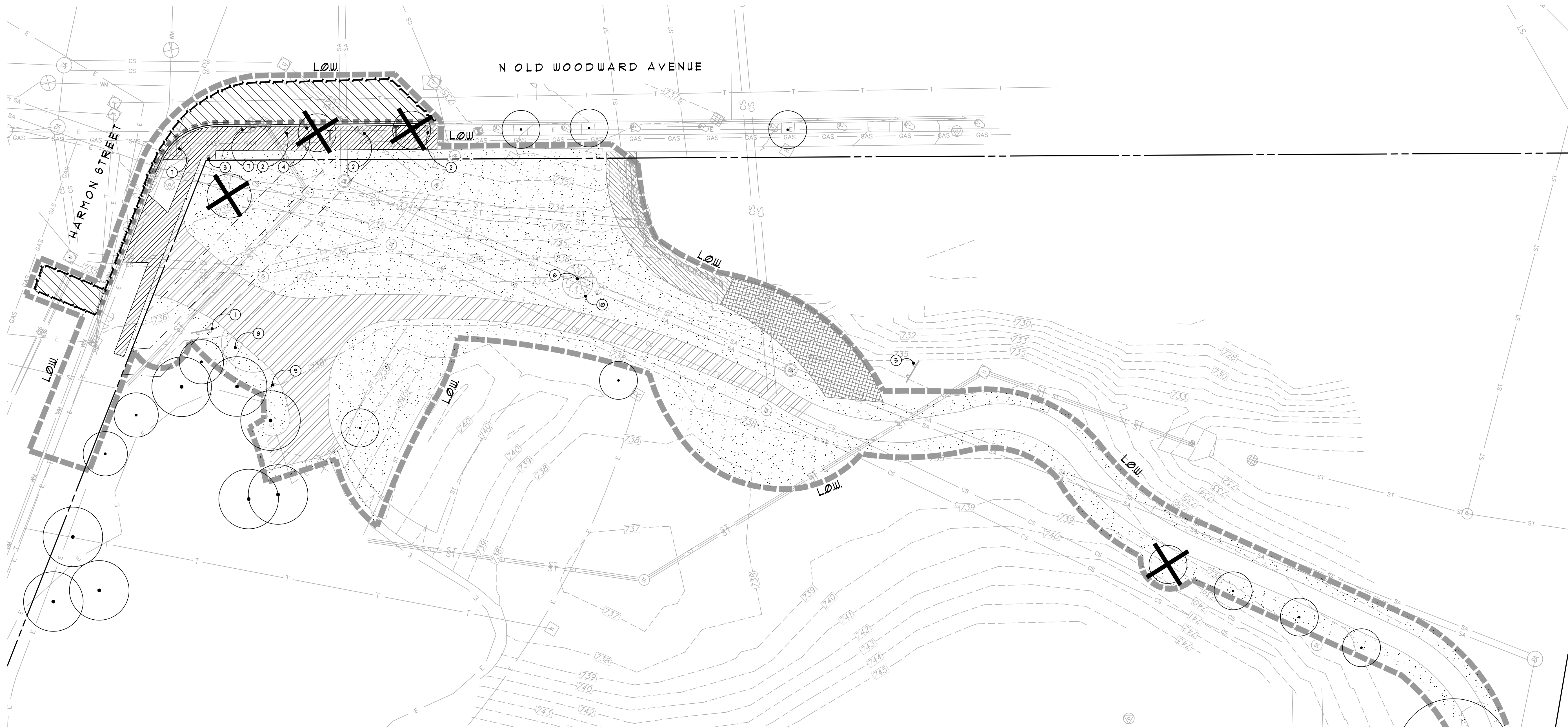
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Landscape Architect:
Grissim Metz Andriese
15000 Edward N. Hines Drive, Suite A
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248-347-7010
GMA Principal In-Charge Susan Grissim

Hubbell, Roth & Clark, Inc
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Birmingham Park and Recreation Department
851 South Eton St.
Birmingham, MI 48009
248-530-1714
Carrie Laird, Park and Recreation Manager

Booth Park Plaza and Trail Improvements



Demolition Notes:

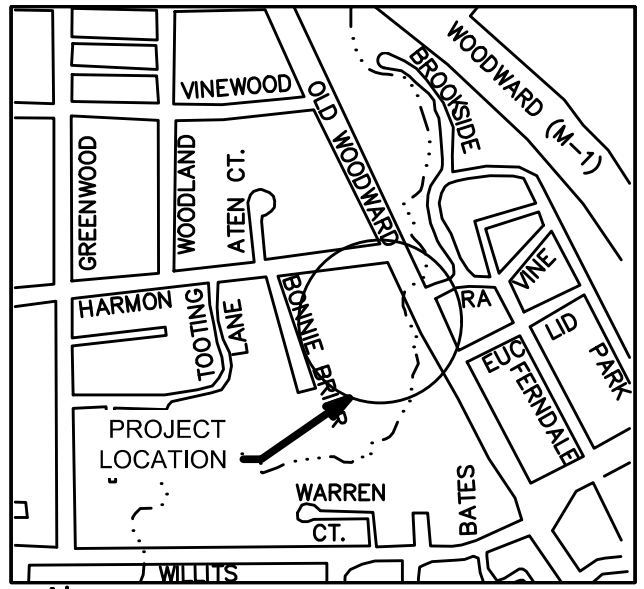
1. ALL DEMOLITION WORK SHALL CONFORM TO LOCAL CODES, ORDINANCES, AND STANDARDS.
2. STAGING / PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND CONSTRUCTION MANAGER AT THE PRE-CONSTRUCTION MEETING.
3. SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED.
4. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH LOCAL CODES AND STANDARDS.
6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER LOCAL REQUIREMENTS AND MUTCD.
7. CONTRACTOR TO VERIFY WITH OWNER'S REPRESENTATIVE THE DEMOLITION AND SALVAGING OF ITEMS IDENTIFIED PRIOR TO BEGINNING DEMOLITION WORK.
8. ALL UTILITY RIMS AND CASTINGS SHALL BE ADJUSTED TO PROPOSED SURROUNDING GRADES. REFER TO GRADING / DRAINAGE PLAN.
9. NO CONSTRUCTION MACHINERY OR CONSTRUCTION MATERIAL SHALL ENTER INTO OR BE STORED IN EXISTING LANDSCAPE AREAS OR WITHIN EXISTING TREE DRIP LINES TO REMAIN.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION FENCE AND ALL SESC MEASURES PER OAKLAND COUNTY AND CITY OF BIRMINGHAM STANDARDS. REFER TO SESC PLAN.
11. TREE CLEARING/TRIMMING ACTIVITIES SHALL BE PERFORMED BETWEEN OCTOBER 31ST AND MARCH 31ST.

Note Key:

1. EXISTING PLAYGROUND SIGN TO BE REMOVED AND RETURNED TO CITY.
2. EXISTING PARKING METER TO BE REMOVED AND RETURNED TO CITY.
3. REMOVE EXISTING BIKE REPAIR STATION AND RETURN TO CITY.
4. REMOVE BARRIER FREE PARKING SIGN AND RELOCATE PER LAYOUT PLAN.
5. EXISTING ROUGE RIVER TRAILS SIGN TO BE REMOVED AND RETURNED TO CITY.
6. EXISTING SCULPTURE AND PLAQUE TO BE REMOVED BY OTHERS.
7. REMOVE TRUNCATED DOME STRIPS.
8. EXISTING PORTABLE RESTROOM TO BE REMOVED BY CITY.
9. EXISTING BIKE RACK TO BE REMOVED AND RETURNED TO CITY.
10. REMOVE EXISTING SCULPTURE FOOTING. ASSUME FOOTING IS 42" DEEP.

Demolition Legend:

- L.O.W.**
- LIMIT OF WORK LINE
--- PROVIDE FULL DEPTH, VERTICAL, CLEAN SAUCUT TO NEAREST EXISTING JOINT
--- CONCRETE CURB AND GUTTER REMOVAL, TYP.
- EXISTING TREE TO BE REMOVED. GRIND DOWN STUMP AND ROOTS 12" BELOW FINISH GRADE.
--- TRANSPLANT TREE.
--- EXISTING TREE TO REMAIN, TYP.
- SAWCUT AND REMOVE EXISTING CONCRETE WALK PAVEMENT AND BASE TO NEAREST JOINT, TYP.
--- SAWCUT AND REMOVE EXISTING BITUMINOUS PAVEMENT, TYP.
--- REMOVE EXISTING GRAVEL PAVEMENT, TYP.
--- REMOVE EXISTING PLANTINGS AS DIRECTED BY LANDSCAPE ARCHITECT.
--- STRIP AND REMOVE EXISTING TURF, TYP.
--- SELECTIVELY CLEAR ALL VEGETATION 3" DIAMETER AND UNDER WITHIN 10' OF FENCE AS DIRECTED BY LANDSCAPE ARCHITECT.



Key Map
Scale: Not to Scale



HRC
HUBBELL, ROTH & CLARK, INC.
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**GRISSIM
METZ
ANDRIESE**
ASSOCIATES

Landscape Architecture

15000 Edward N. Hines Dr., Suite A
Plymouth, MI 48170

Ph: 248-347-7010

Project:
**Booth Park
Plaza & Trail Improvements**
Birmingham, Michigan

Sheet:
Demolition Plan

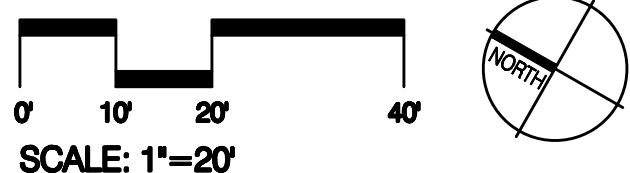
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Checked: SLG
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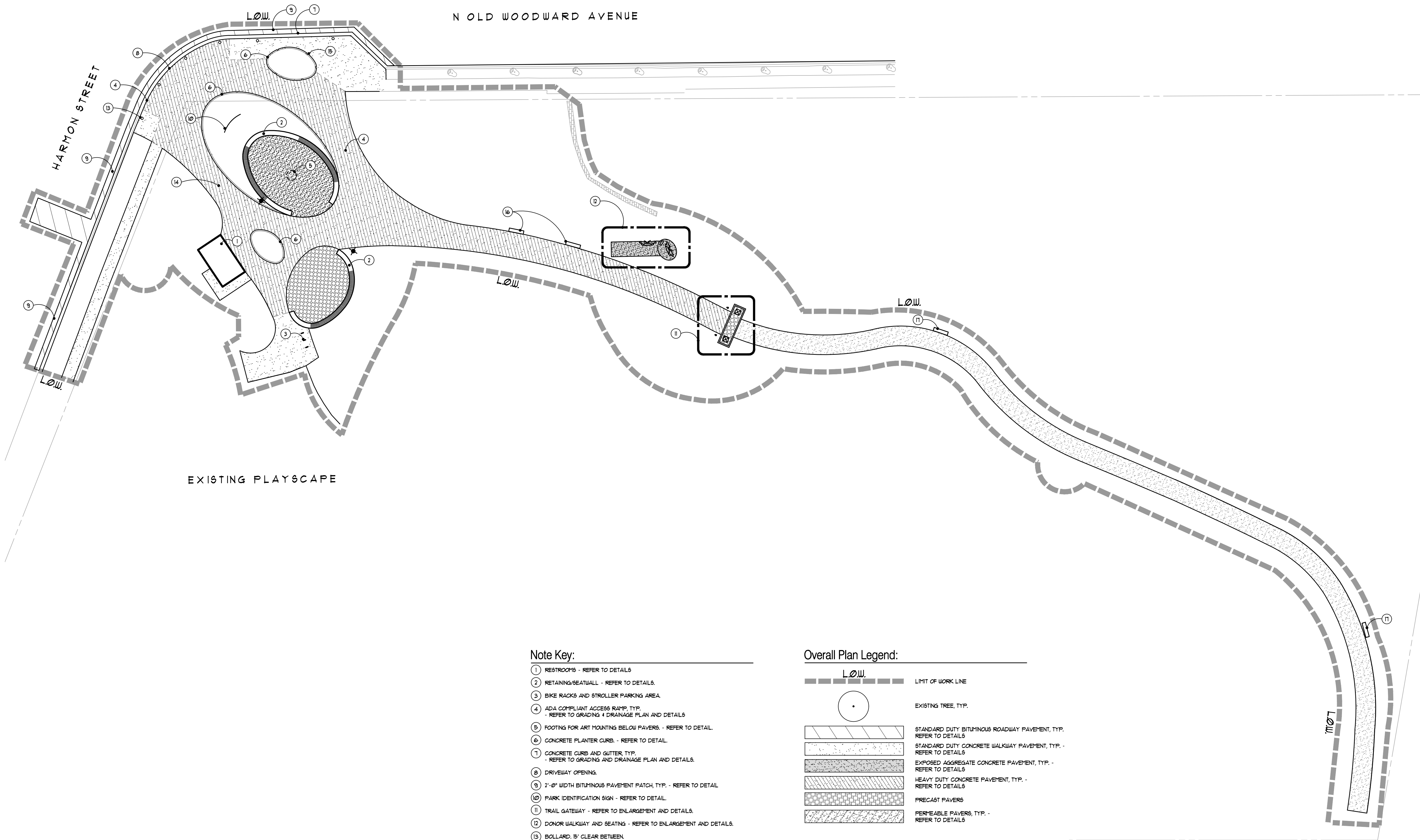
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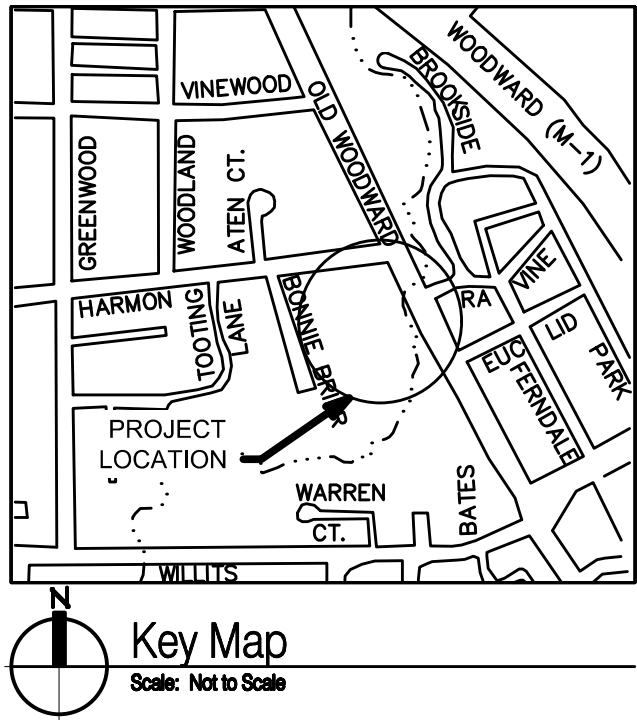
L201





- Note Key:**
- ① RESTROOMS - REFER TO DETAILS
 - ② RETAINING/SEATWALL - REFER TO DETAILS.
 - ③ BIKE RACKS AND STROLLER PARKING AREA
 - ④ ADA COMPLIANT ACCESS RAMP, TYP. - REFER TO GRADING & DRAINAGE PLAN AND DETAILS
 - ⑤ FOOTING FOR ART MOUNTING BELOW PAVERS. - REFER TO DETAIL.
 - ⑥ CONCRETE PLANTER CURB. - REFER TO DETAIL.
 - ⑦ CONCRETE CURB AND GUTTER, TYP. - REFER TO GRADING AND DRAINAGE PLAN AND DETAILS.
 - ⑧ DRIVEWAY OPENING.
 - ⑨ 2'-0" WIDTH BITUMINOUS PAVEMENT PATCH, TYP. - REFER TO DETAIL.
 - ⑩ PARK IDENTIFICATION SIGN - REFER TO DETAIL.
 - ⑪ TRAIL GATEWAY - REFER TO ENLARGEMENT AND DETAILS.
 - ⑫ DONOR WALKWAY AND SEATING - REFER TO ENLARGEMENT AND DETAILS.
 - ⑬ BOLLARD, 3' CLEAR BETWEEN.
 - ⑭ NON ADA ACCESS RAMP
 - ⑮ CONCRETE PLANTER CURB WITH OPENINGS TO ALLOW DRAINAGE TO INLET.
 - ⑯ NEW BENCH
 - ⑰ EXISTING BENCH

- Overall Plan Legend:**
- L.O.W. LIMIT OF WORK LINE
 - EXISTING TREE, TYP.
 - STANDARD DUTY BITUMINOUS ROADWAY PAVEMENT, TYP. REFER TO DETAILS
 - STANDARD DUTY CONCRETE WALKWAY PAVEMENT, TYP. - REFER TO DETAILS
 - EXPOSED AGGREGATE CONCRETE PAVEMENT, TYP. - REFER TO DETAILS
 - HEAVY DUTY CONCRETE PAVEMENT, TYP. - REFER TO DETAILS
 - PRECAST PAVERS
 - PERMEABLE PAVERS, TYP. - REFER TO DETAILS



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Ph: 248-347-7010

Project: Booth Park Plaza & Trail Improvements
Birmingham, Michigan

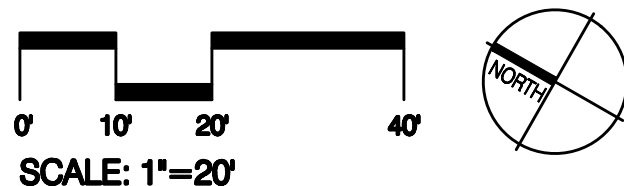
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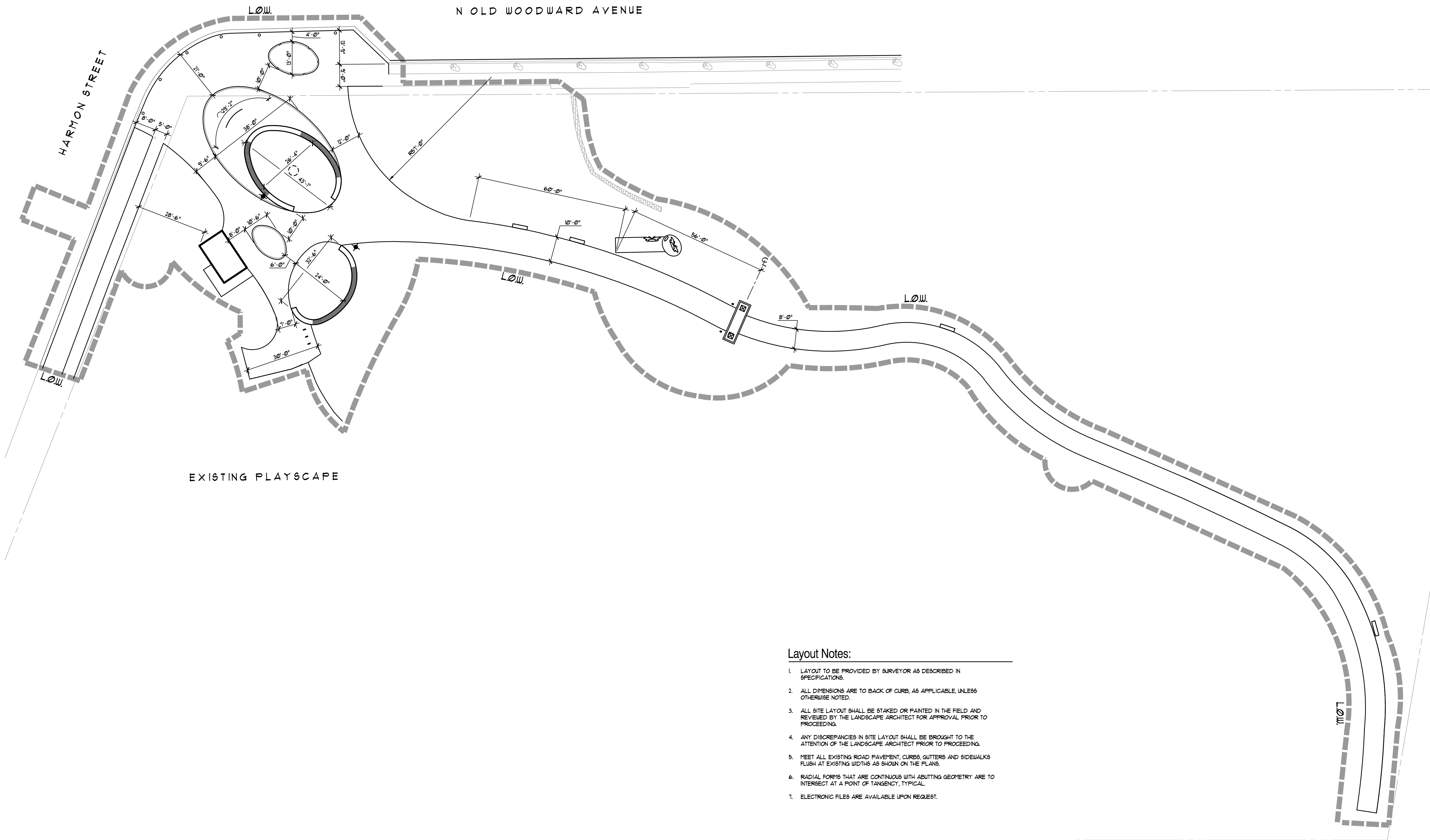
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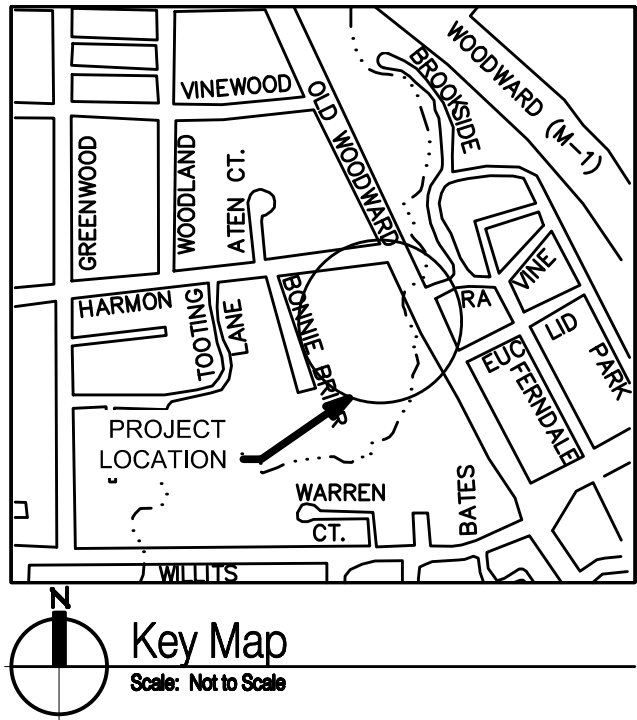
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- Layout Notes:
1. LAYOUT TO BE PROVIDED BY SURVEYOR AS DESCRIBED IN SPECIFICATIONS.
 2. ALL DIMENSIONS ARE TO BACK OF CURB, AS APPLICABLE, UNLESS OTHERWISE NOTED.
 3. ALL SITE LAYOUT SHALL BE STAKED OR PAINTED IN THE FIELD AND REVIEWED BY THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PROCEEDING.
 4. ANY DISCREPANCIES IN SITE LAYOUT SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.
 5. MEET ALL EXISTING ROAD PAVEMENT, CURBS, GUTTERS AND SIDEWALKS FLUSH AT EXISTING WIDTHS AS SHOWN ON THE PLANS.
 6. RADIAL FORMS THAT ARE CONTINUOUS WITH ABUTTING GEOMETRY ARE TO INTERSECT AT A POINT OF TANGENCY, TYPICAL.
 7. ELECTRONIC FILES ARE AVAILABLE UPON REQUEST.



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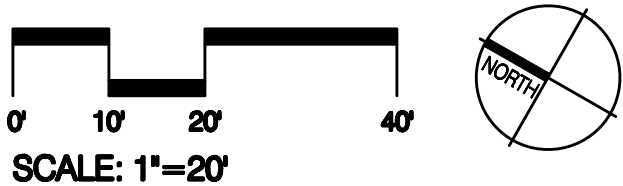
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Booth Park	
Plaza & Trail Improvements	
Birmingham, Michigan	
Sheet:	
Layout Plan	
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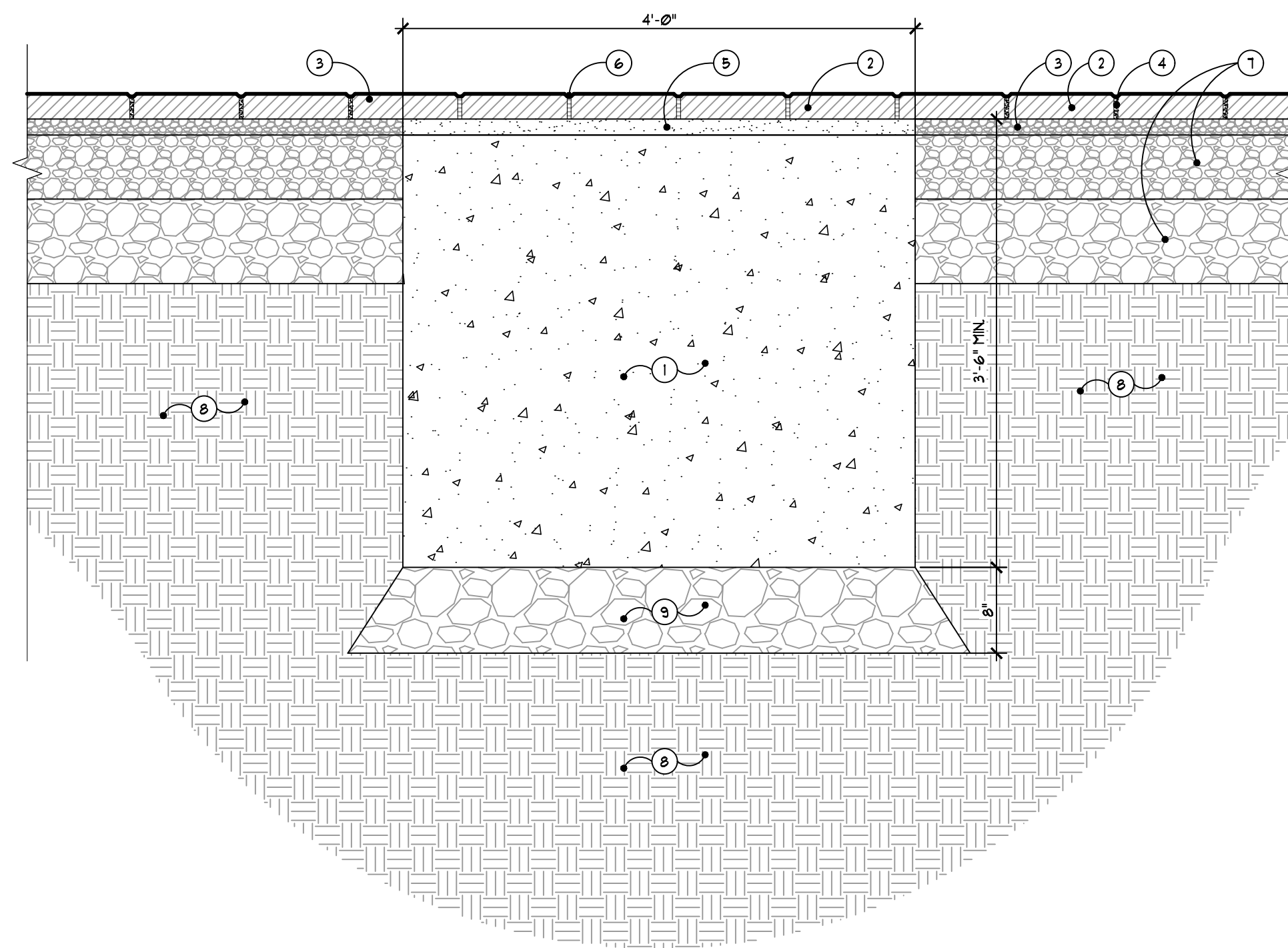
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Sheet Number:
L401

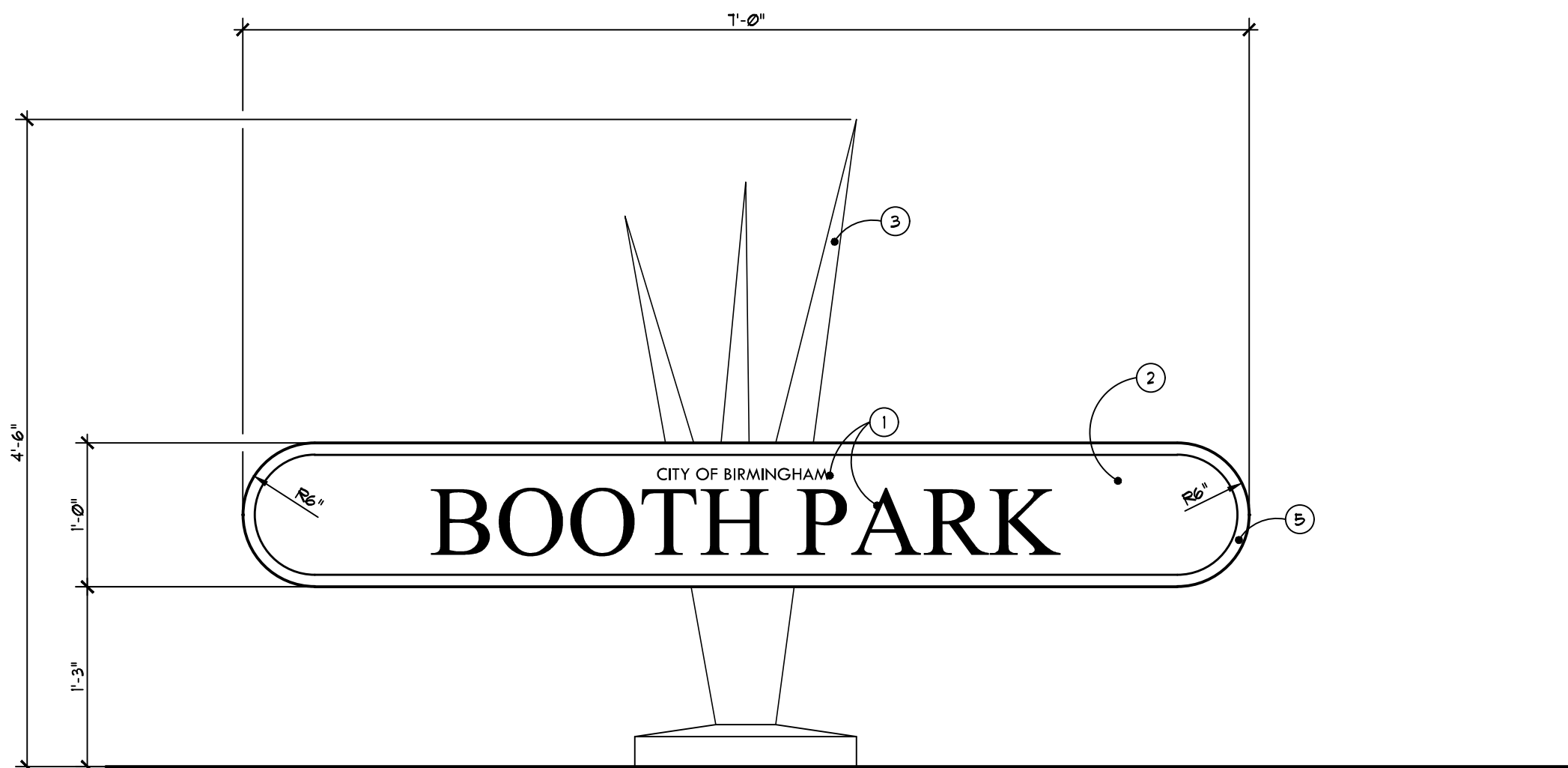
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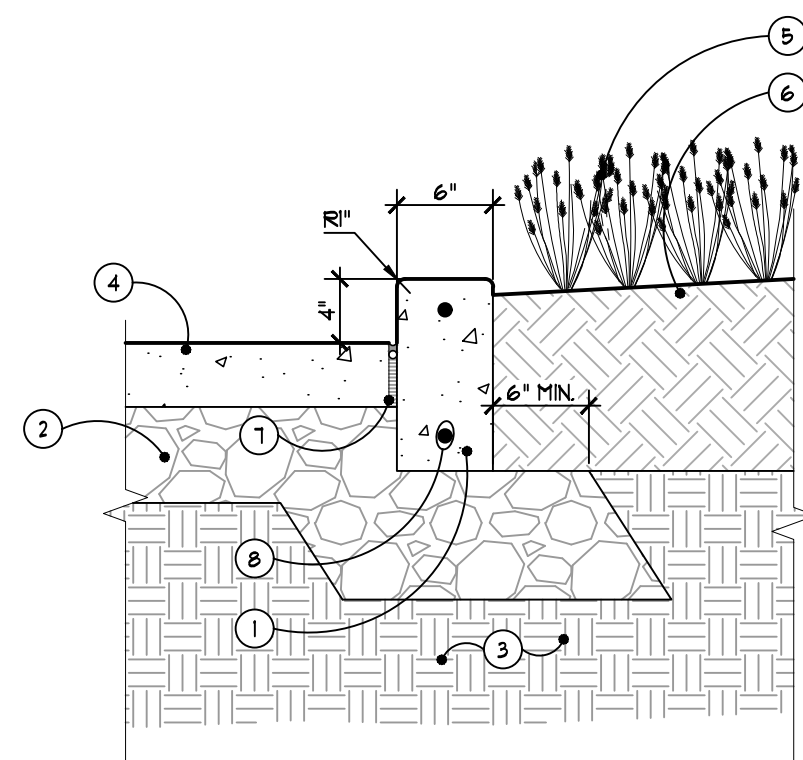
- 1 CONCRETE SCULPTURE FOUNDATION
- 2 PERMEABLE PRECAST CONCRETE PAVERS - REFER TO DETAILS AND SPECIFICATIONS
- 3 1 1/2" DEPTH PERMEABLE SETTING BED, AGGREGATE, OPEN-GRADED, CRUSHED, ANGULAR STONE, ASTM NO. 8 - REFER TO SPECS.
- 4 PERMEABLE JOINT OPENING AGGREGATE, OPEN-GRADED, CRUSHED, ANGULAR STONE, ASTM NO. 8
- 5 1-1/2" SAND SETTING BED WITHIN LIMITS OF SCULPTURE FOUNDATION
- 6 POLYURETHIC SAND JOINTS OVER CONCRETE FOUNDATION, JOINT WIDTH TO MATCH PERMEABLE PAVEMENT JOINTS
- 7 REFER TO PERMEABLE PAVEMENT DETAIL FOR PERMEABLE BASES
- 8 SUBGRADE COMPACTED TO 95% MODIFIED PROCTOR
- 9 8" THK 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP.

7 Sculpture Footing
SCALE: 1 1/2" = 1'-0"



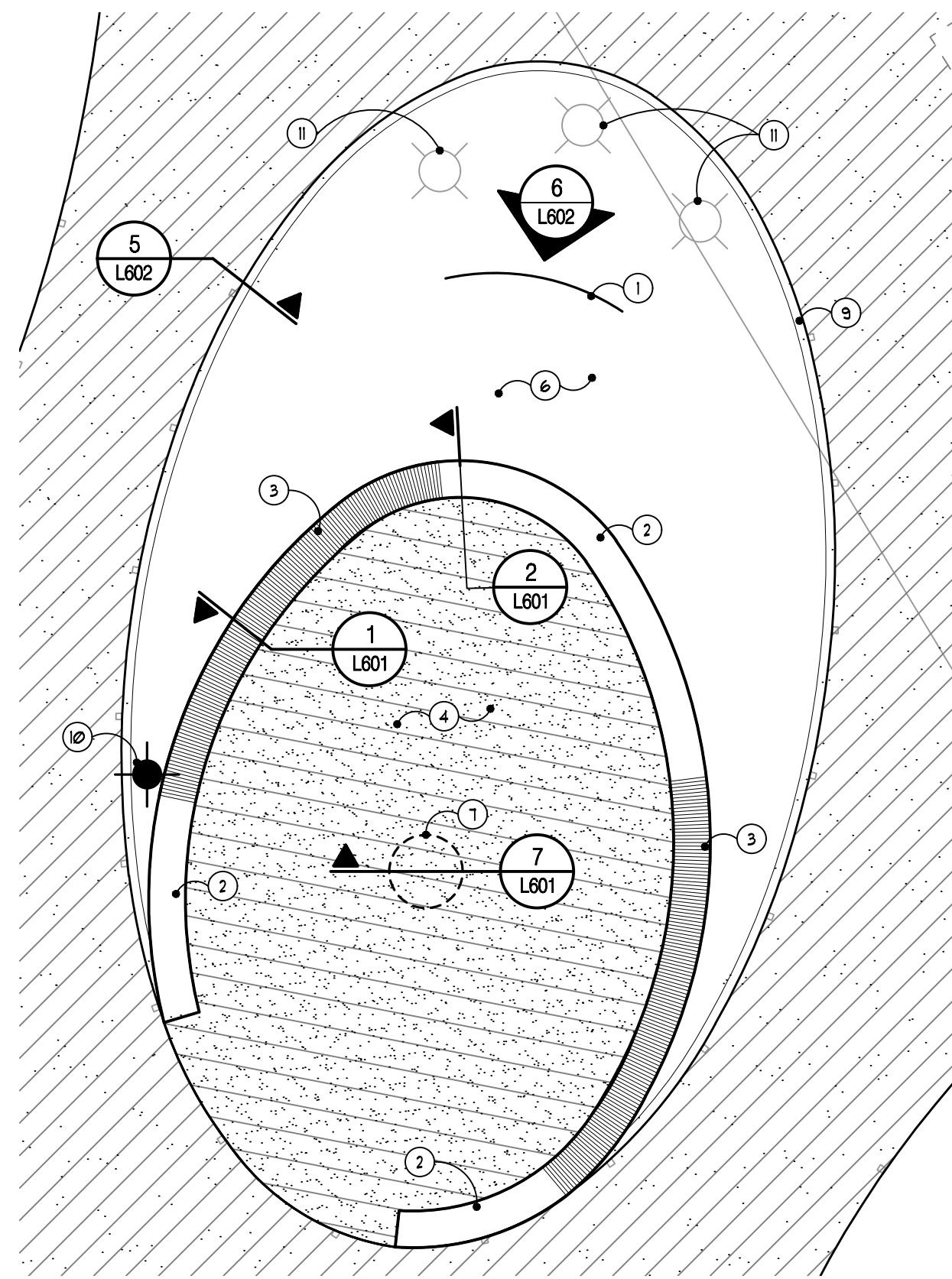
- 1 6" HEIGHT, 3/4" THICK, CAST METAL LETTERS MOUNTED TO PANEL, AGED GOLD COATED METALLIC FINISH
- 2 ALUMINUM SIGN PANEL, POWDER COATED DARK GREEN "PARK" COLOR
- 3 SPIRE SILHOUETTE SIGN SUPPORTS - AGED GOLD METALLIC FINISH (PER CITY OF BIRMINGHAM FORMATS)
- 4 FINISH GRADE
- 5 PIN STRIPE - AGED GOLD METALLIC FINISH

6 Park Identification Signage
SCALE: 1" = 1'-0"

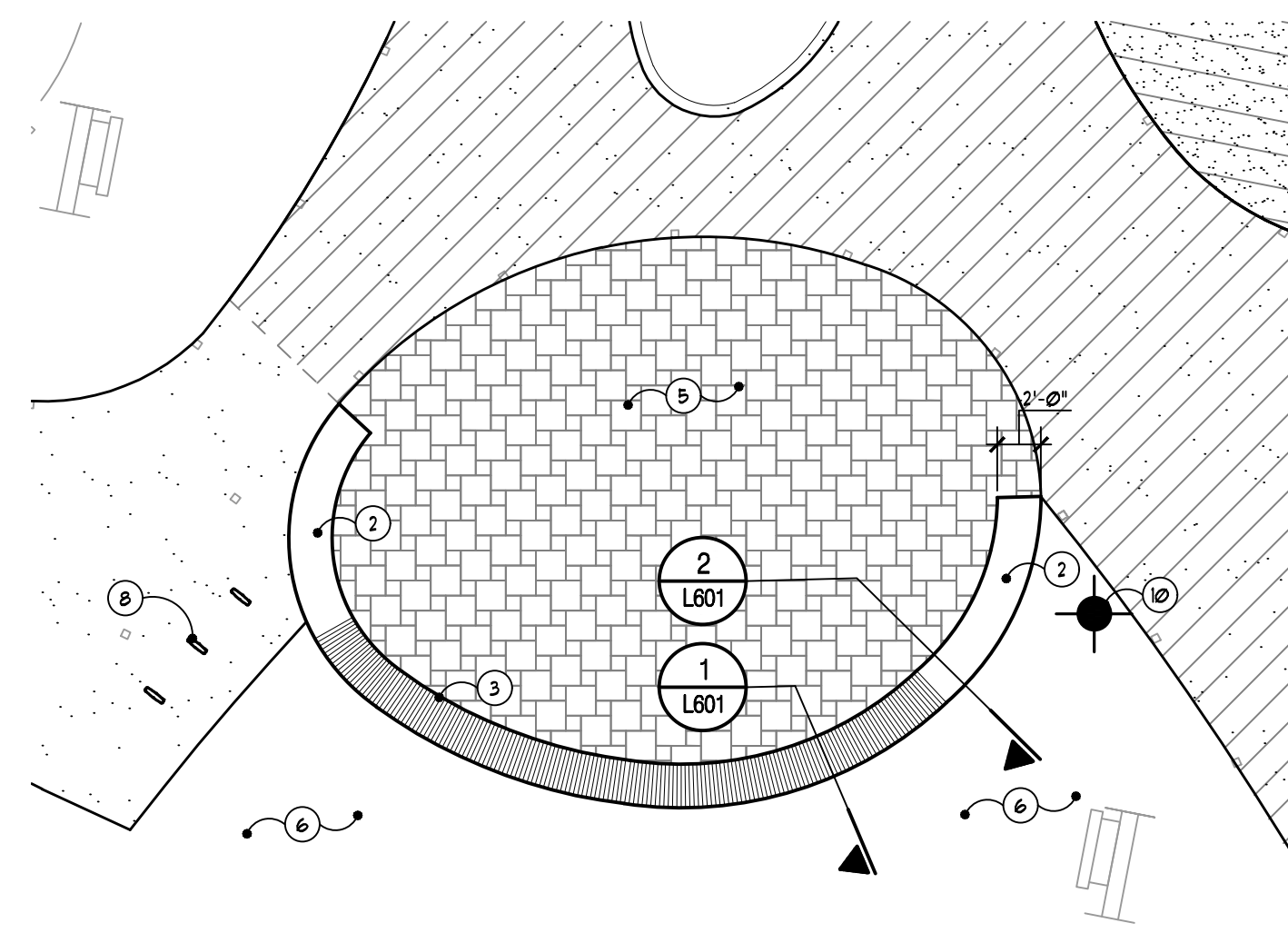


- 1 6" WIDE X 12" DEPTH CONCRETE PLANTER CURB
- 2 8" THK 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP.
- 3 EXISTING SUBGRADE, COMPACT TOP 12" (MIN) TO 95% MODIFIED PROCTOR, TYP.
- 4 CONCRETE PAVEMENT - REFER TO PLAN AND TYPICAL DETAIL
- 5 LANDSCAPE PLANTS - REFER TO LANDSCAPE PLAN
- 6 PLANTING BED - REFER TO LANDSCAPE PLAN AND DETAILS
- 7 1/2" EXPANSION JOINT BETWEEN CONCRETE POURS, TYP.
- 8 (2) NO. 4 BARS CONT., 3" MIN. COVERAGE, LAP SPLICE AS REQUIRED

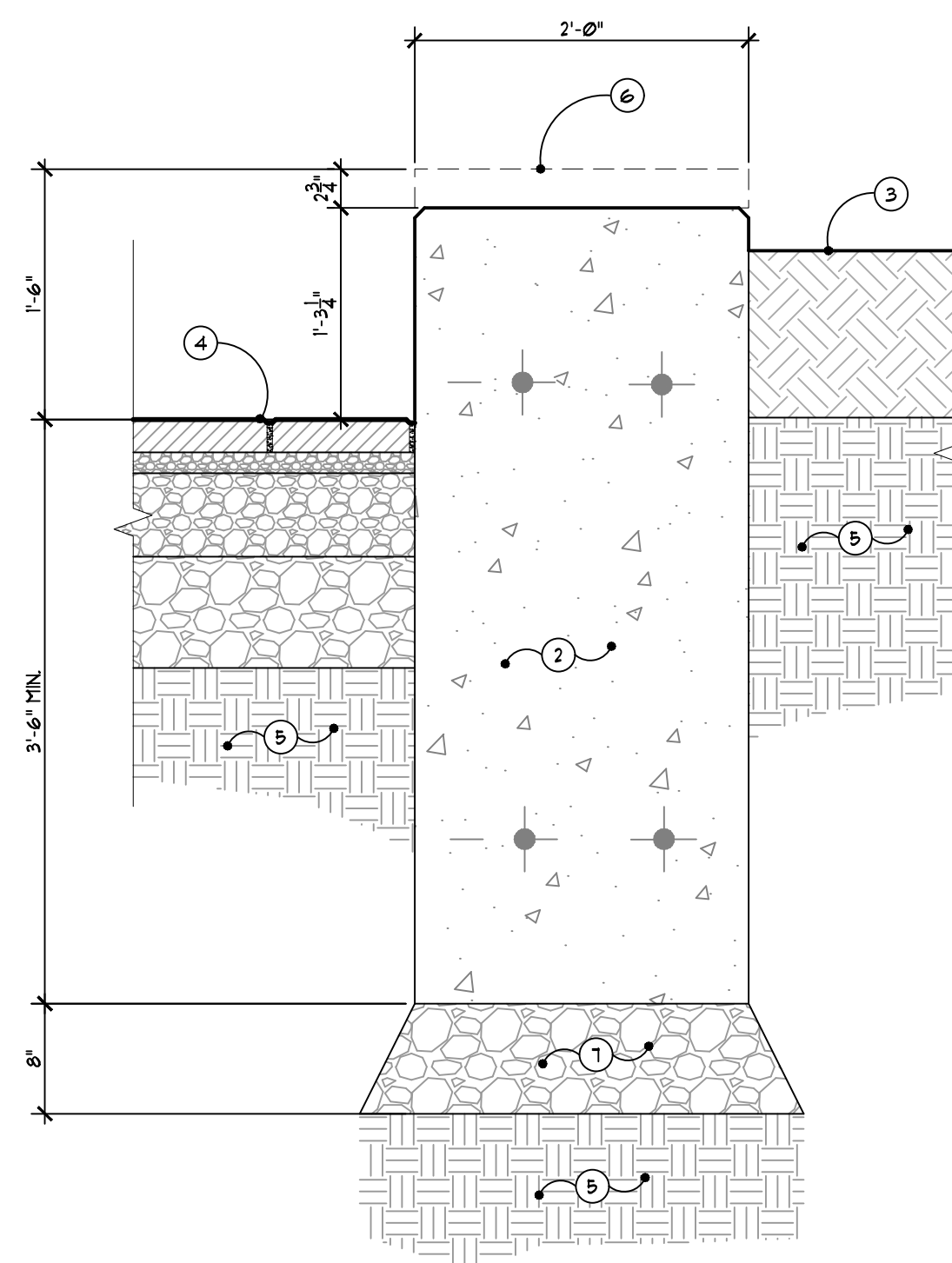
5 Section Through Planter Curb
SCALE: 1" = 1'-0"



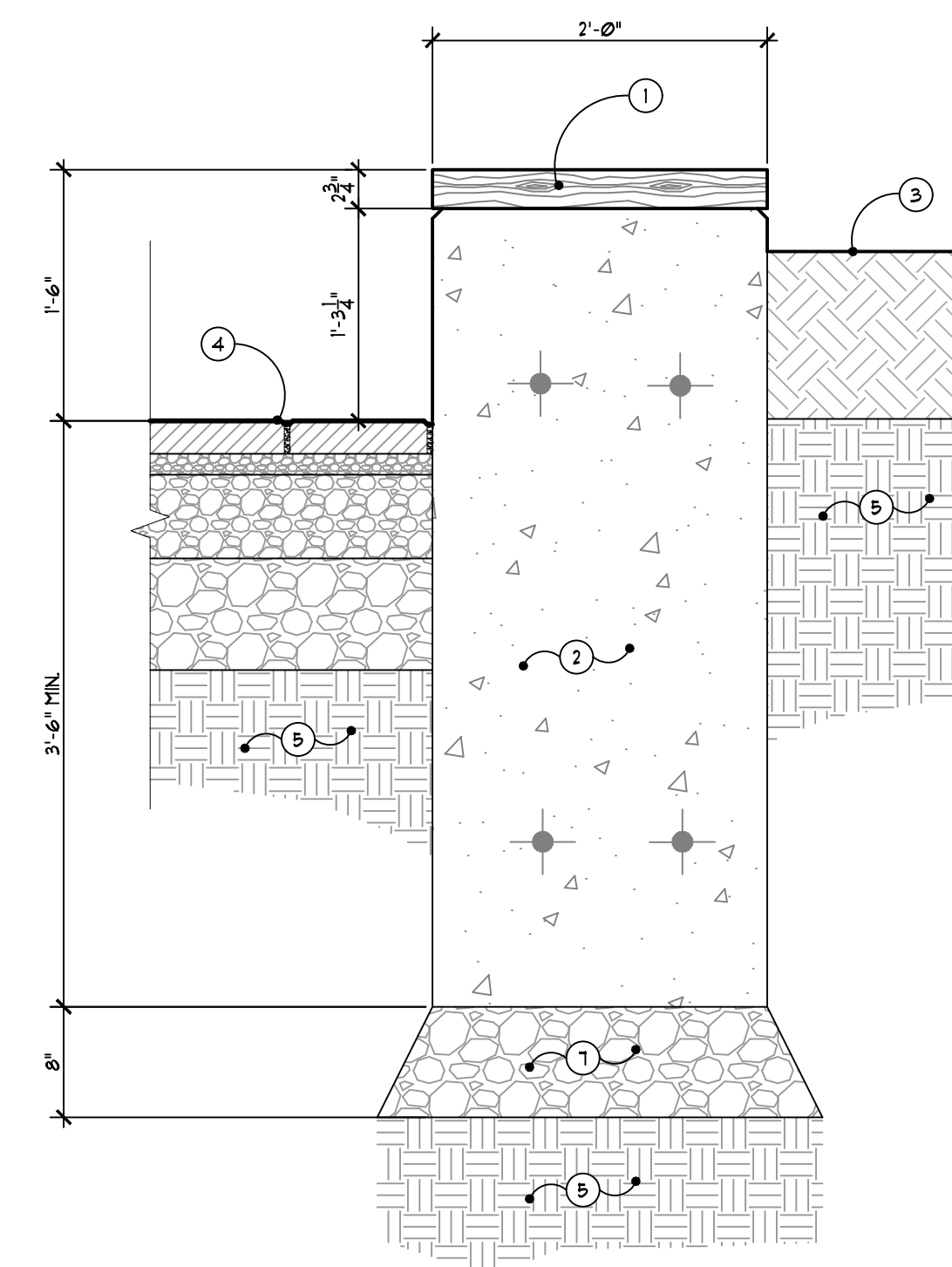
4 Main Plaza Enlargement
SCALE: 1/8" = 1'-0"



3 Secondary Plaza Enlargement
SCALE: 1/8" = 1'-0"

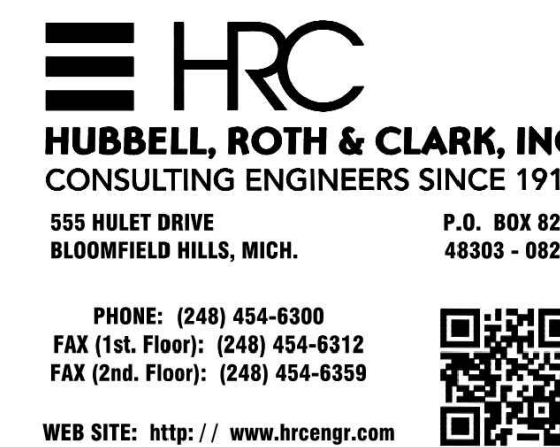
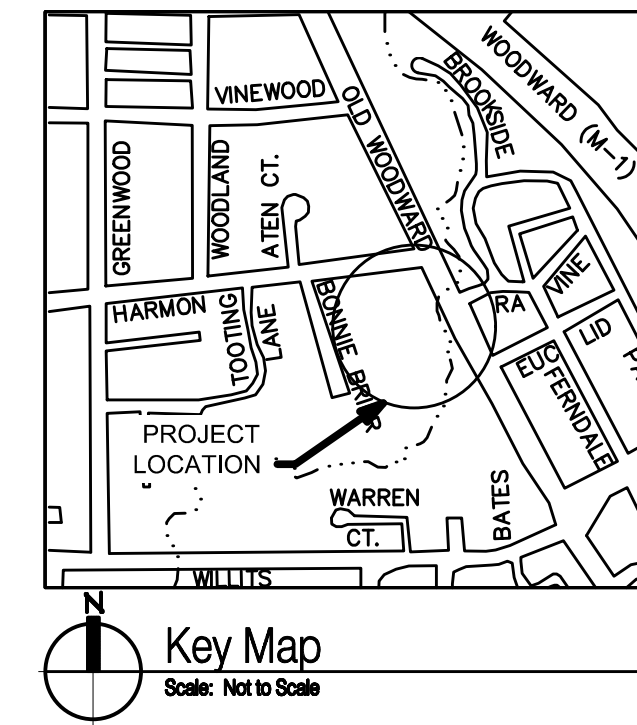


2 Cast In Place Concrete Seatwall - Without Wood Slat Seating
SCALE: 1" = 1'-0"



1 Cast In Place Concrete Seatwall - With Wood Slat Seating
SCALE: 1" = 1'-0"

- 1 SOLID FSC UNTREATED HARDWOOD SLAT TOP SEATS BY STREETLIFE
- 2 CAST-IN-PLACE CONCRETE SEATWALL
- 3 PLANTING BED - REFER TO LANDSCAPE PLAN AND DETAILS
- 4 PAVERS - REFER TO PLAN AND DETAILS
- 5 SUBGRADE COMPACTED TO 95% MODIFIED PROCTOR
- 6 WOOD SLATS BEYOND
- 7 8" THK 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP.

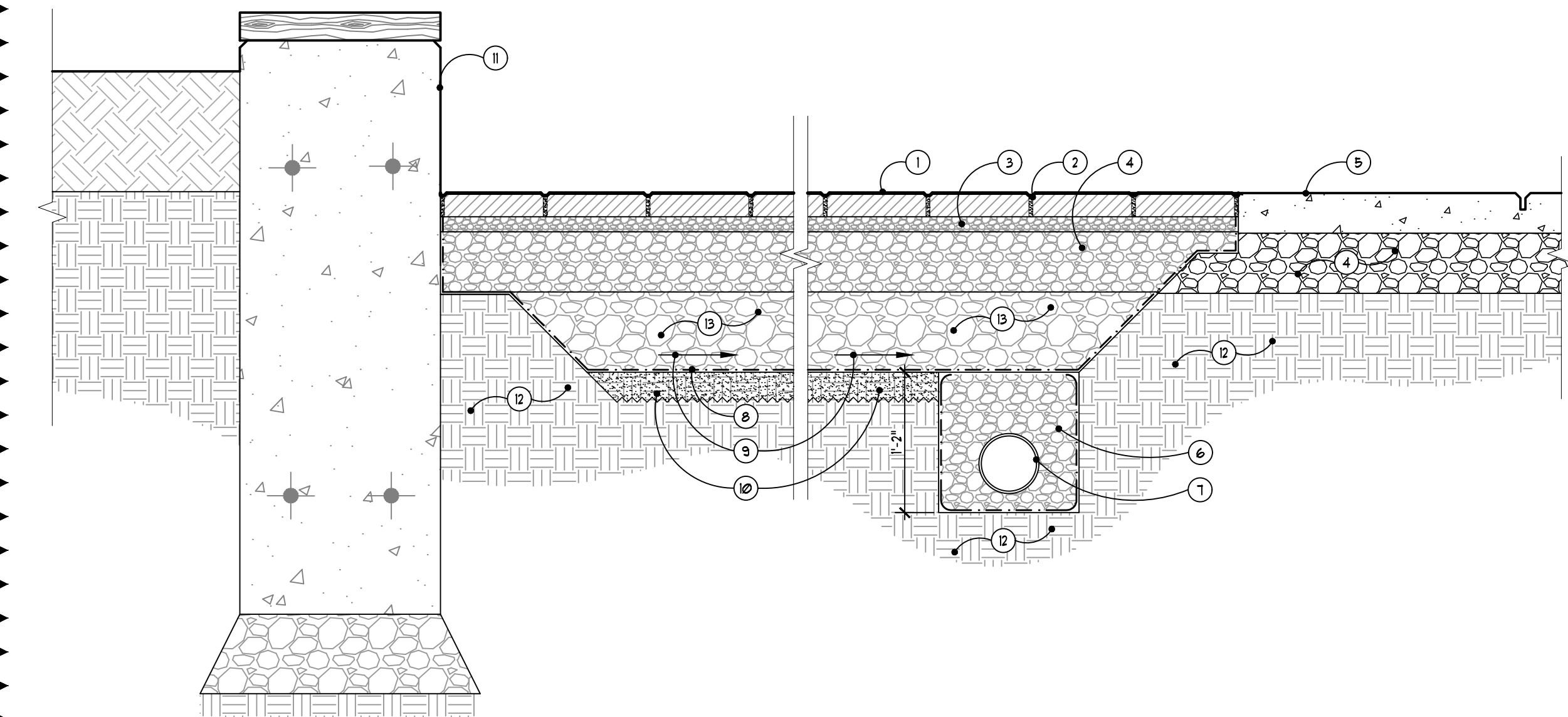


Landscape Architecture
15000 Edward N. Hines Dr., Suite A
Plymouth, MI 48170
Ph: 248-347-7010

Project:	Booth Park Plaza & Trail Improvements
Location:	Birmingham, Michigan
Sheet:	Site Details
Job Number:	B22-241
Drawn:	MS
Checked:	SLG
Scale:	

Date: 2024-08-06 Issued for: City Commission Review

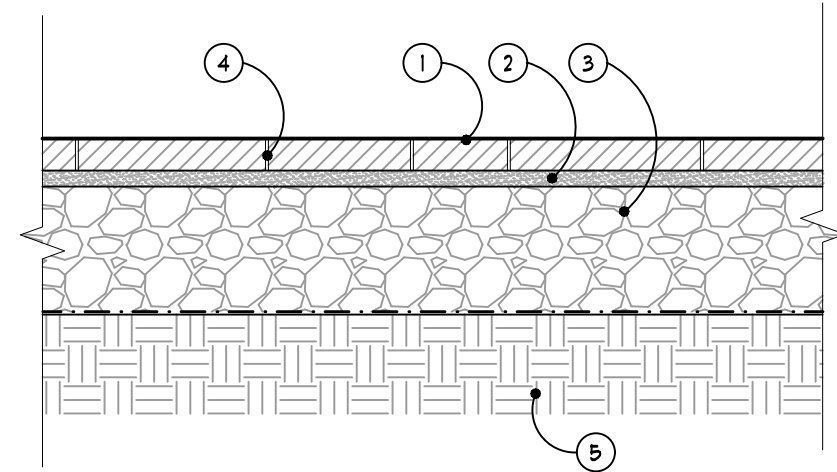
PRELIMINARY
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- 1 PRECAST CONCRETE PERMEABLE PAVERS, ASHLAR PATTERN REFER TO PLAN ENLARGEMENT AND SPECS.
- 2 PERMEABLE JOINT OPENING AGGREGATE, OPEN-GRADED, CRUSHED, ANGULAR STONE, GRANITE CHIP - REFER TO SPECS.
- 3 1 1/2" DEPTH PERMEABLE SETTING BED AGGREGATE, OPEN-GRADED, CRUSHED, ANGULAR STONE, ASTM NO. 8 - REFER TO SPECS.
- 4 6" MIN. DEPTH PERMEABLE BASE AGGREGATE, OPEN-GRADED, CRUSHED, ANGULAR ASTM NO. 57
- 5 TYPICAL CONCRETE PAVEMENT - REFER TO DETAILS
- 6 6A WASHED DRAINAGE STONE TRENCH WRAPPED IN NON-WOVEN FILTER FABRIC.
- 7 6" PERFORATED HDPE ADS N12 DRAIN PIPE SLOPED TO DRAIN AT 1% MIN.
- 8 NON-WOVEN GEOTEXTILE FILTER FABRIC LAID OVER ENTIRE SUBGRADE AT PERMEABLE PAVERS.
- 9 SLOPE SUBGRADE TO DRAIN (MIN. 1% - MAX 5%)
- 10 3" INFILTRATION MATERIAL MIX SCARIFY SUBGRADE SURFACE, SPREAD 2IN SAND, TILL AND COMPACT.
- 11 CAST IN PLACE CONCRETE SEAT WALL - REFER TO DETAILS.
- 12 COMPACTED SUBGRADE TO 95% MOD. PROCTOR
- 13 8" MIN. DEPTH PERMEABLE SUB-BASE AGGREGATE, OPEN-GRADED, CRUSHED, ANGULAR STONE ASTM NO. 2

6 Permeable Pavers

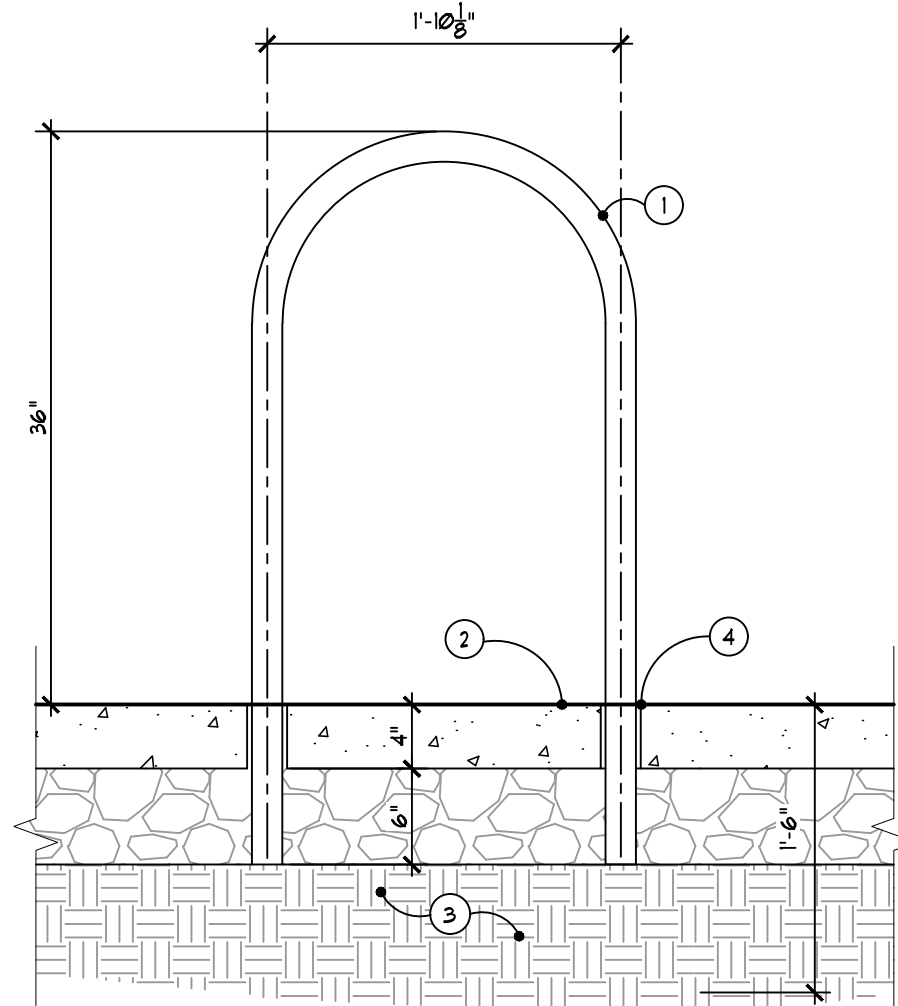
SCALE: 1" = 1'-0"



- 1 PRECAST CONCRETE PAVERS IN RANDOM ASHLAR PATTERN, REFER TO PLAN ENLARGEMENT AND SPECS.
- 2 1" DEPTH SAND LEVELING BED, SCREED LEVEL
- 3 8" DEPTH 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP. - REFER TO SPECS.
- 4 3/16" POLYMERIC SAND JOINTS, TYP.
- 5 SUBGRADE, COMPACT TOP 12" (MIN) TO 95% MODIFIED PROCTOR, TYP.

5 Typical Precast Concrete Pavers

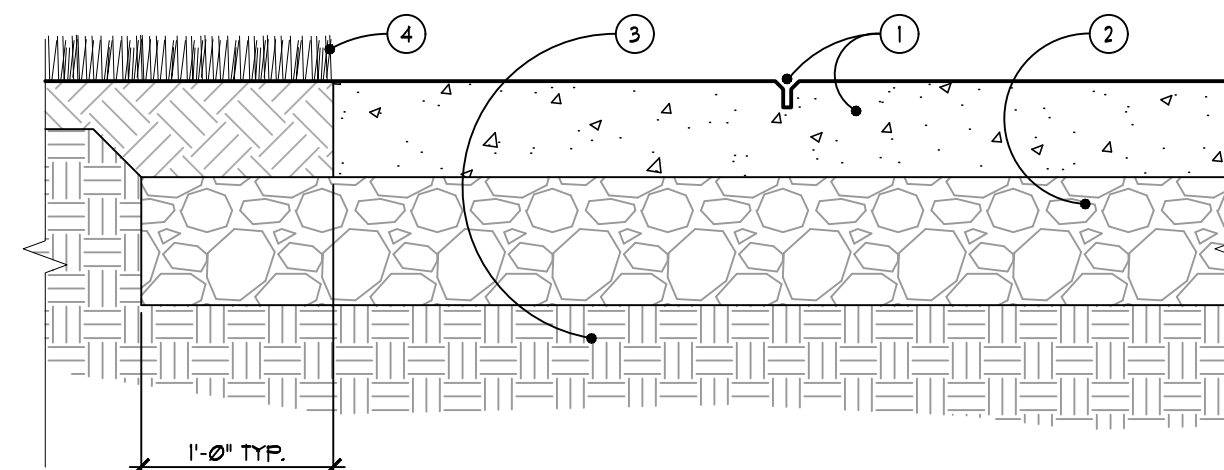
SCALE: 1" = 1'-0"



- 1 BIKE LOOP MANUFACTURER - CYCLE SAFE GRAND RAPIDS, MI. WWW.CYCLESAFE.COM MODEL - CLASSIC STANDARD 10106 GROUND MOUNT COLOR - BLACK POWDER COAT
- 2 TYPICAL CONCRETE PAVEMENT - REFER TO DETAIL
- 3 COMPACTED SUBGRADE TO 95% MOD. PROCTOR
- 4 CORE DRILLED CONCRETE SLAB AND SET BIKE RACKS WITH NON-SHRINK EPOXY GROUT.

4 Bike Racks

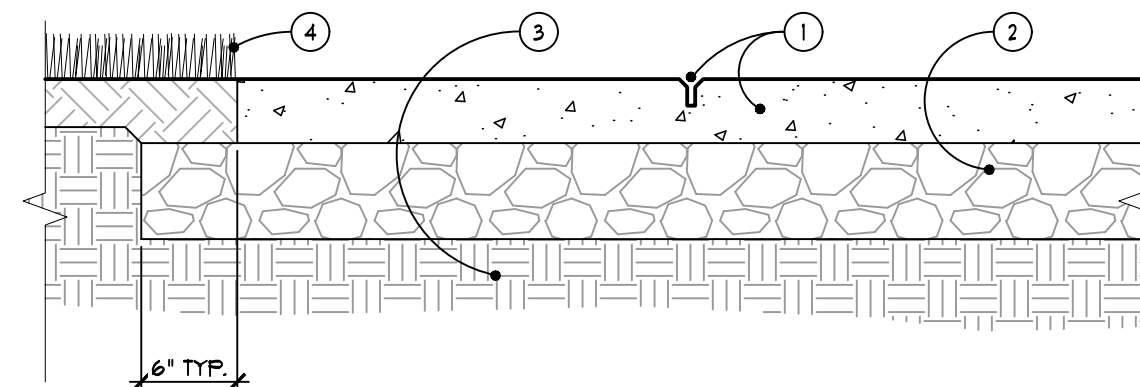
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- 1 6" THK. CONCRETE PAVEMENT WITH SAWCUT JOINTS AND LIGHT BROOM FINISH - REFER TO SPECS.
- 2 8" THK. MDOT 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP. - REFER TO SPECS.
- 3 EXISTING SUBGRADE, COMPACT TOP 12" (MIN) TO 95% MODIFIED PROCTOR, TYP.
- 4 ADJACENT LAWN / LANDSCAPE - REFER TO LANDSCAPE PLAN

3 Typical Heavy Duty Concrete Pavement Detail

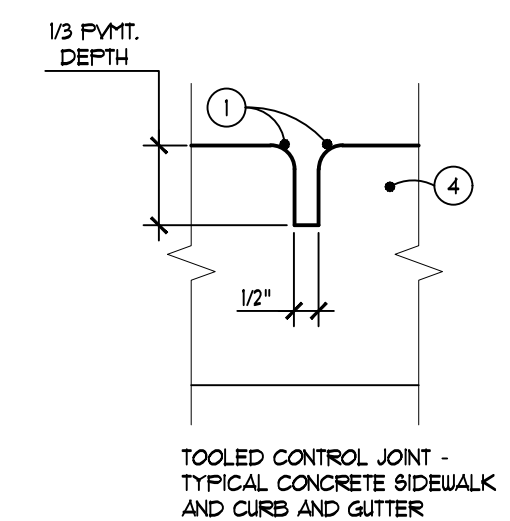
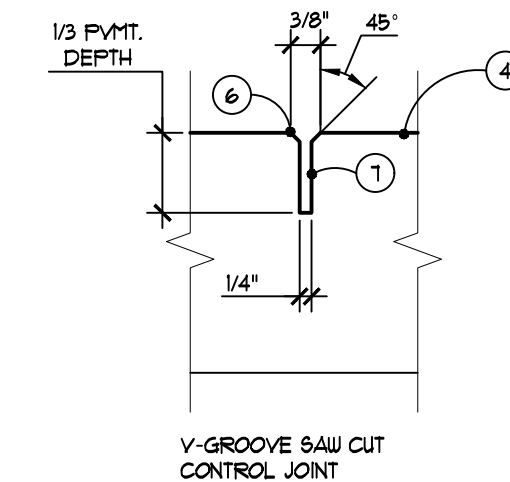
SCALE: 1" = 1'-0"



- 1 4" THK. CONCRETE PAVEMENT WITH SAWCUT JOINTS AND LIGHT BROOM FINISH - REFER TO SPECS AND GEOTECH DOCUMENTS
- 2 6" THK. MDOT 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP. - REFER TO SPECS.
- 3 EXISTING SUBGRADE, COMPACT TOP 12" (MIN) TO 95% MODIFIED PROCTOR, TYP. OR ENGINEERED FILL COMPACTED TO 95% MODIFIED PROCTOR
- 4 ADJACENT LAWN / LANDSCAPE - REFER TO LANDSCAPE PLAN

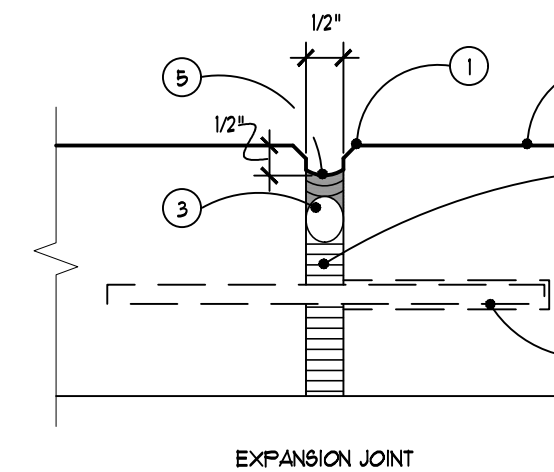
2 Typical Standard Duty Concrete Pavement Detail

SCALE: 1" = 1'-0"



GENERAL NOTES:

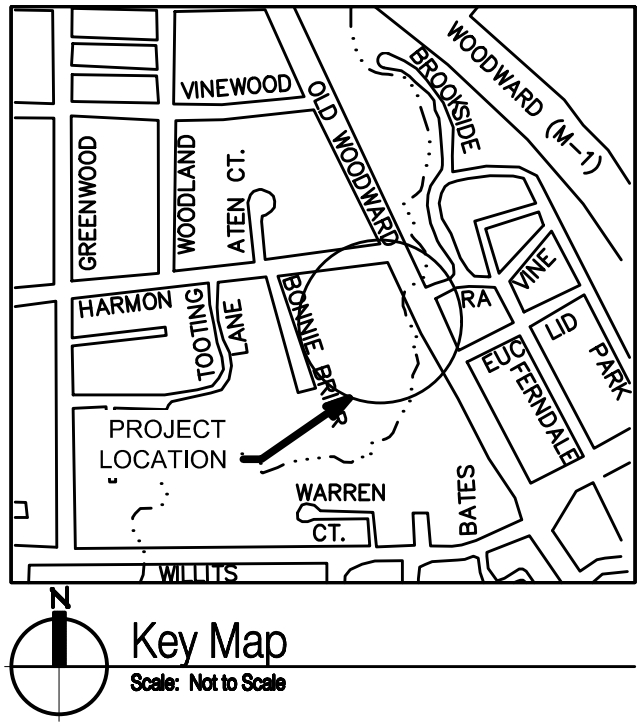
1. EXPANSION JOINTS SHALL BE LOCATED WITHIN CONCRETE PAVEMENT AS SHOWN ON PLANS, ABUTTING EXISTING CONCRETE PAVING, EXISTING AND NEW CURBS OR PLANTERS, BETWEEN NEW CONCRETE POURS, BETWEEN NEW CONCRETE AND EXISTING STRUCTURES, OR AS NOTED OTHERWISE.
2. PROVIDE FULL DEPTH EXPANSION JOINT FABRIC WITH BACKER ROD AND SEALANT BETWEEN ALL PAVING SYSTEMS AND BUILDING FACADES.



- 1 1/2" TOOLED RADIUS (SMOOTH)
- 2 EXPANSION JOINT FILLER - HOLD 1 1/2" BELOW SURFACE
- 3 BACKER ROD
- 4 TYPICAL CONCRETE PAVEMENT
- 5 SEALANT COLOR TO MATCH ADJACENT PAVEMENT, HOLD 1/2" BELOW SURFACE, SUBMIT SAMPLES AND PRODUCT INFO FOR APPROVAL.
- 6 V-SHAPED BEVELED SAW CUT, TRACE FIRST CUT USING SOFF-CUT, V-LINE PRO-EDGE BEVEL BLADE XL6-V25 EDGE FOR 3/8" WIDE JOINT
- 7 1/4" WIDE SAW CUT - EARLY ENTRY FIRST CUT
- 8 1/2" DIA. X 12" LONG EPOXY COATED DOUGL. 12" O.C. CAP ONE END, TYP.

1 Typical Expansion Joint / Tooled and Saw Cut Control Joint Details

NOT TO SCALE



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Project:
**Booth Park
Plaza & Trail Improvements**
Birmingham, Michigan

Sheet:
Site Details

Job Number: B22-241
Drawn: MS
Checked: SLG

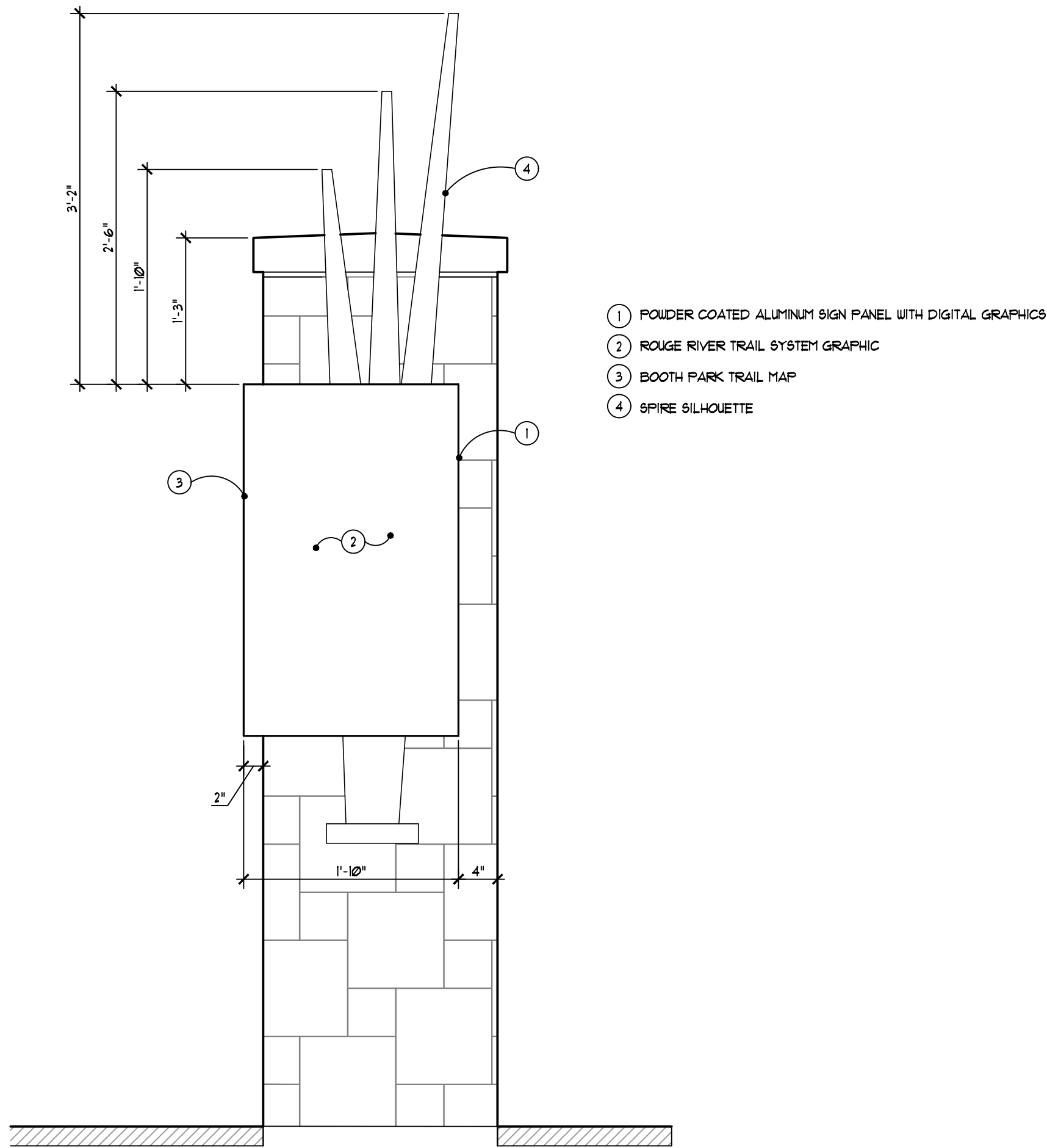
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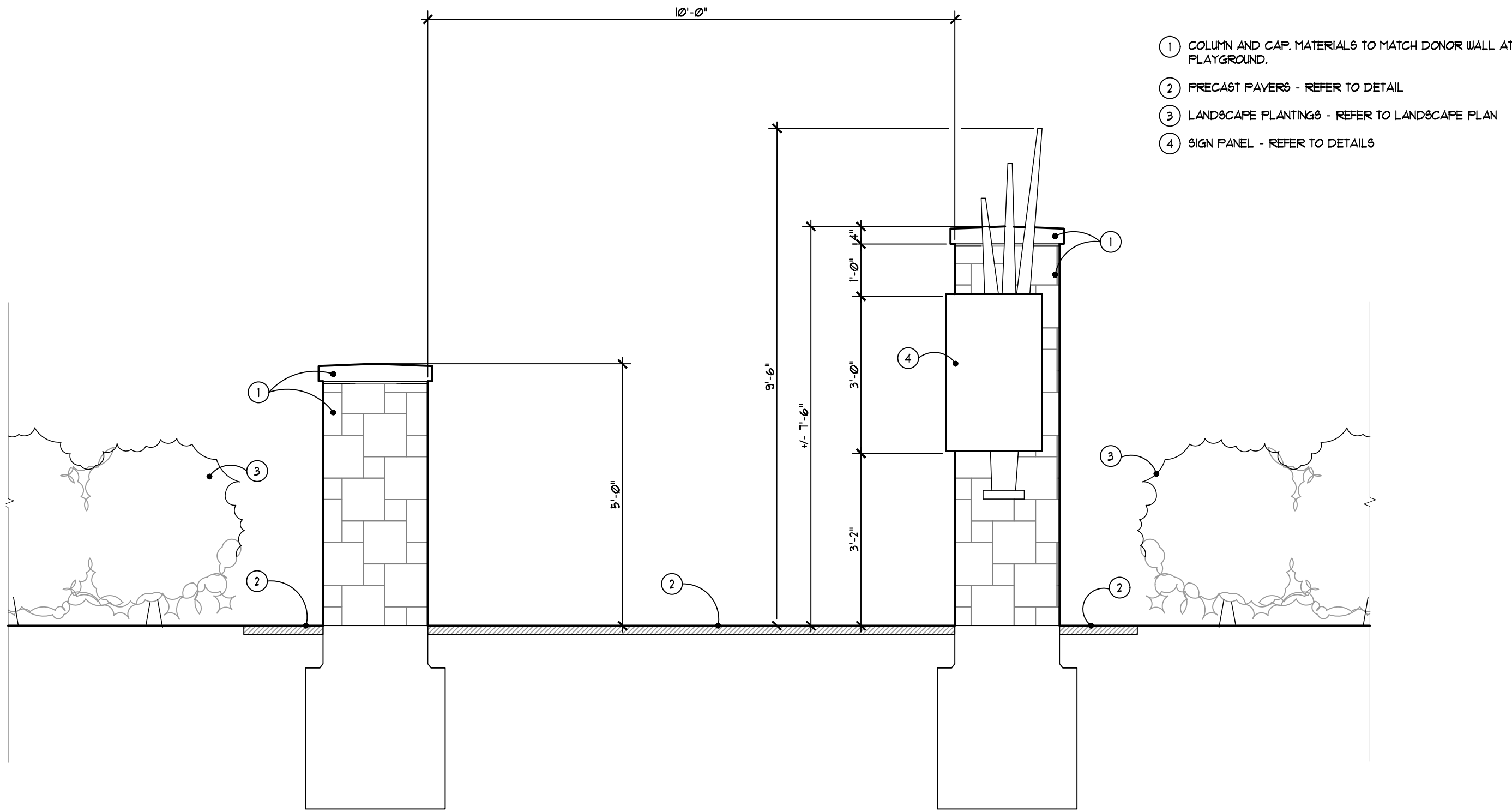
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L602

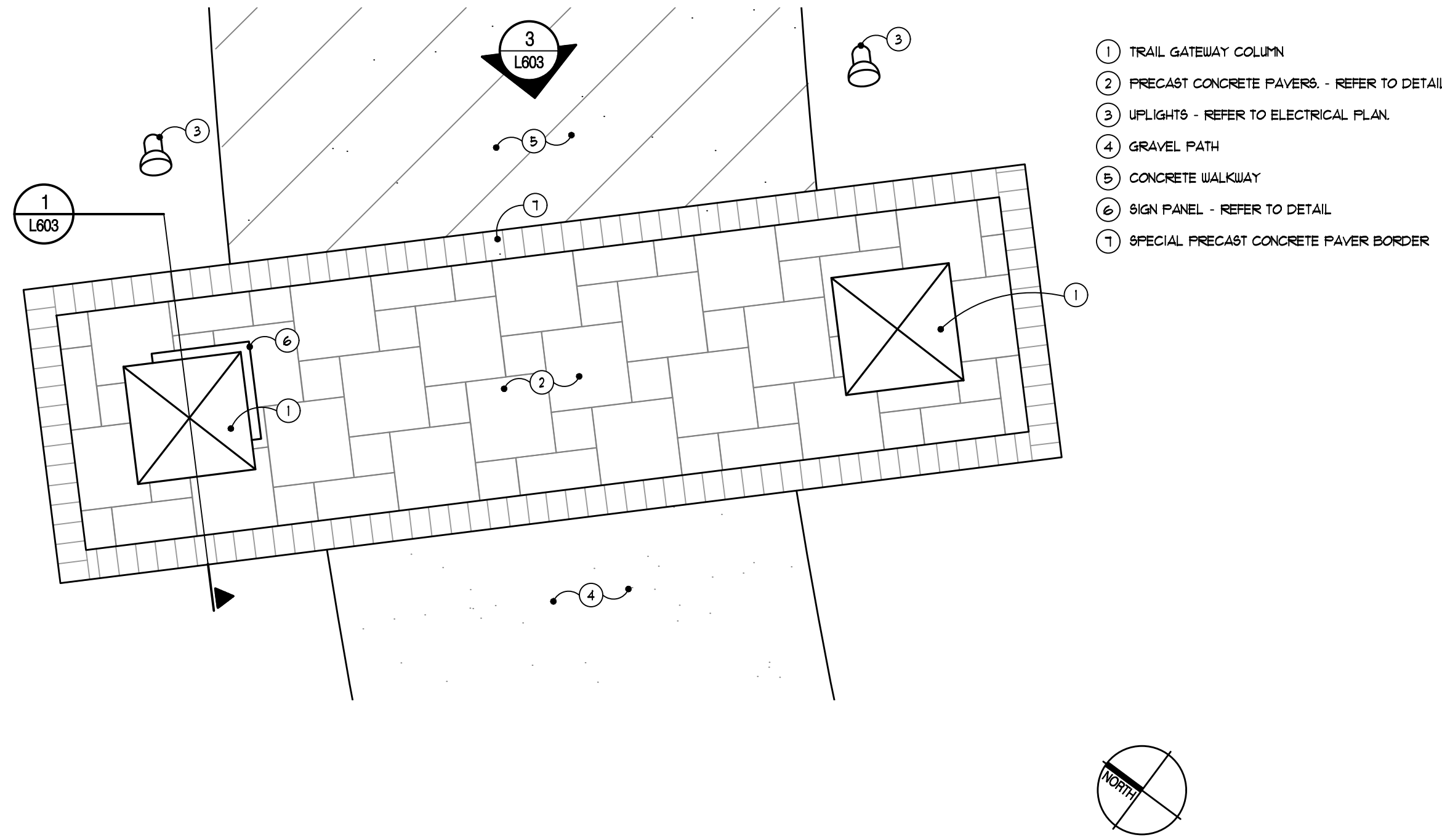
4 Trail Gateway Signage
SCALE: 1" = 1'-0"



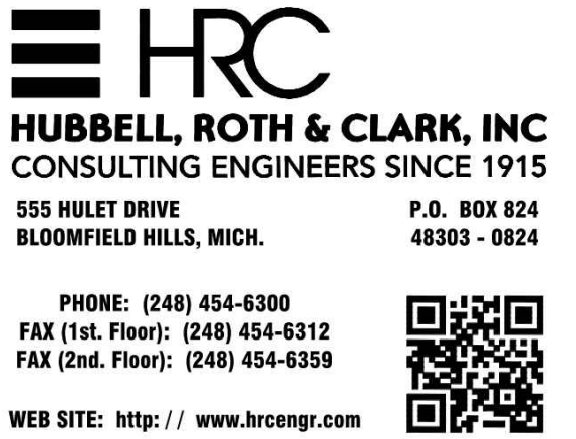
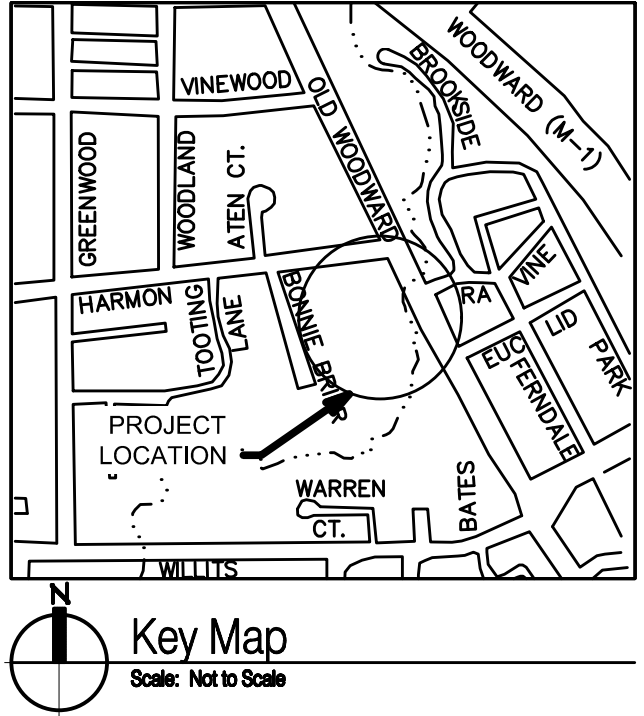
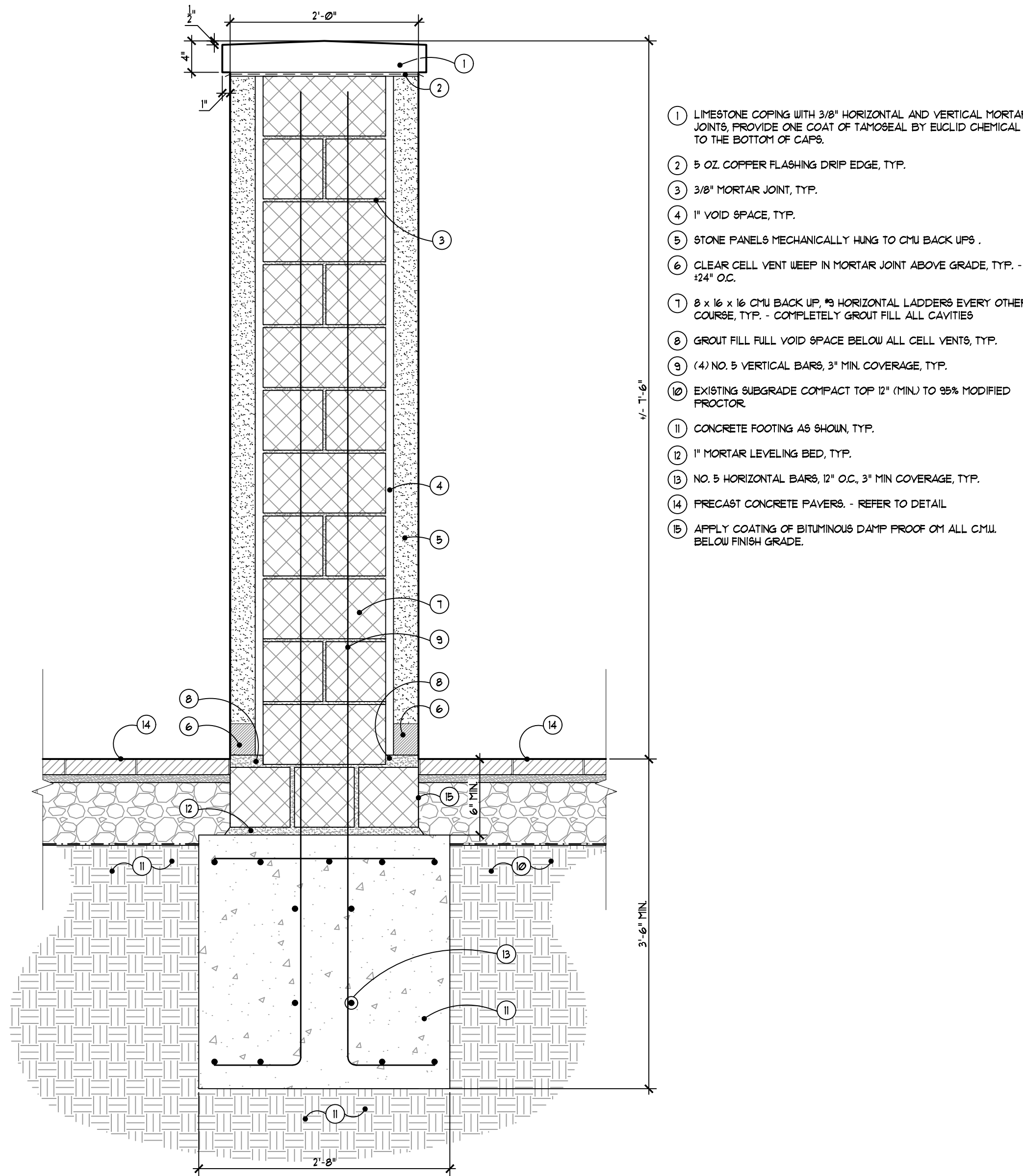
3 Trail Gateway - Elevation
SCALE: 1/2" = 1'-0"



2 Trail Gateway - Plan
SCALE: 1/2" = 1'-0"



1 Trail Gateway - Section
SCALE: 1" = 1'-0"



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Plaza & Trail Improvements
Birmingham, Michigan

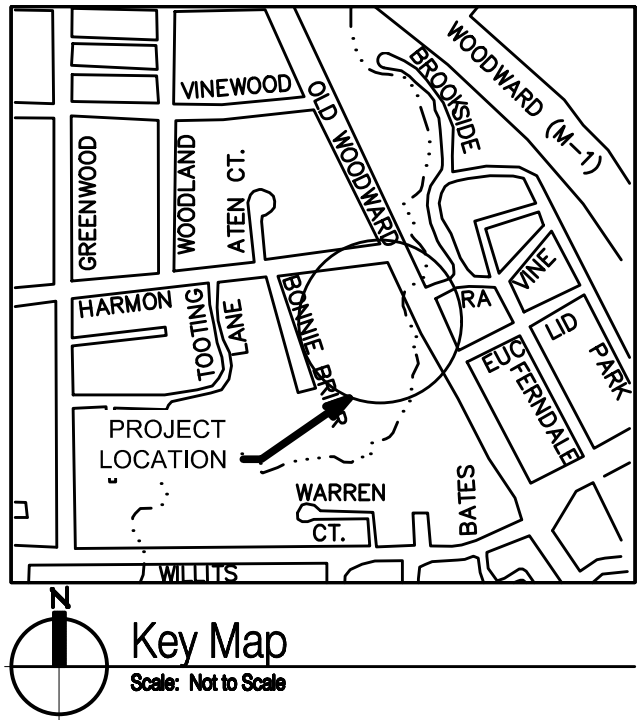
Sheet:
Site Details

Job Number: B22-241
Drawn: MS
Checked: SLG
Scale:

Date: 2024-08-06 Issued for: City Commission Review

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Project:
**Booth Park
Plaza & Trail Improvements**
Birmingham, Michigan

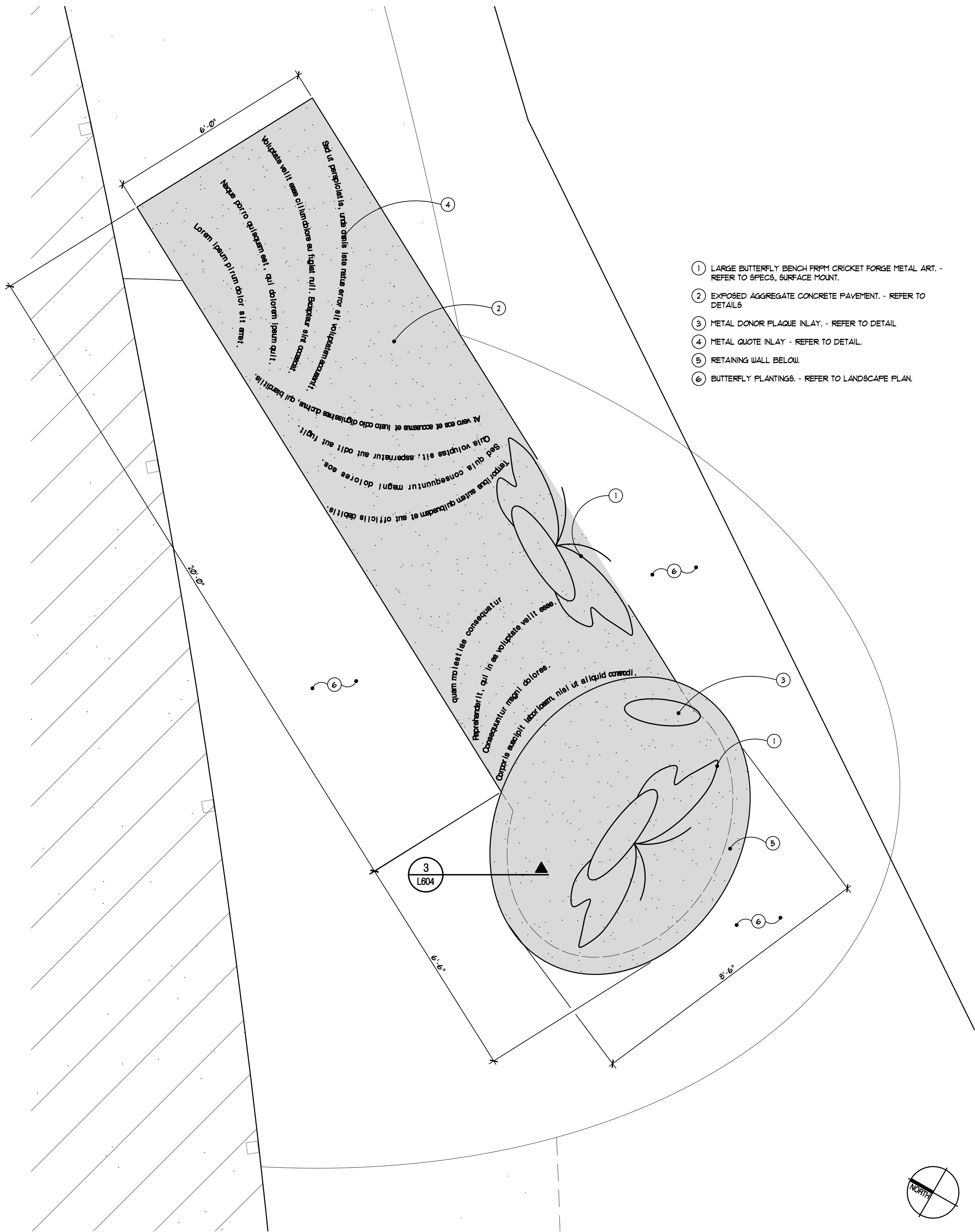
Sheet:
Site Details - Donor Area

Job Number: B22-241
Drawn: MS
Checked: SLG
Scale:

Date: 2024-08-06 Issued for: Team Coordination

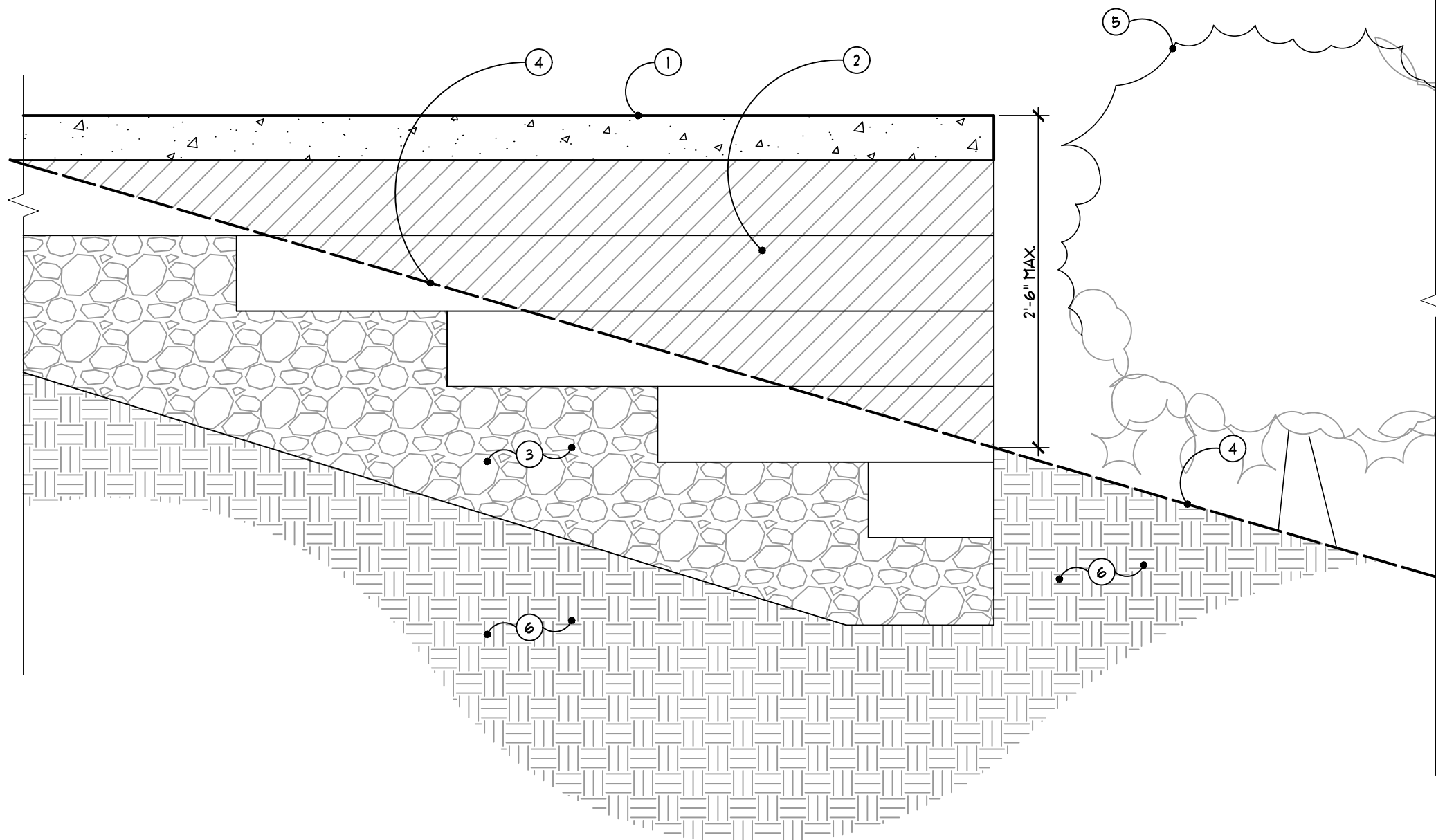
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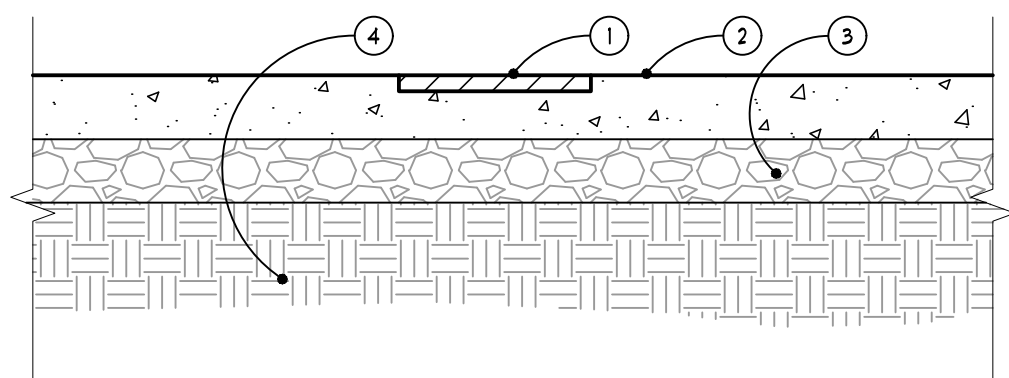
4 Donor Area - Plan
SCALE: 1/2" = 1'-0"

- 1 EXPOSED AGGREGATE CONCRETE - REFER TO DETAIL
- 2 PRECAST RETAINING WALL, SEGMENTAL UNITS
- 3 AGGREGATE BASE
- 4 FINISH GRADE
- 5 BUTTERFLY PLANTINGS - REFER TO LANDSCAPE PLAN
- 6 EXISTING SUBGRADE, COMPACT TOP 12" (MIN) TO 95% MODIFIED PROCTOR



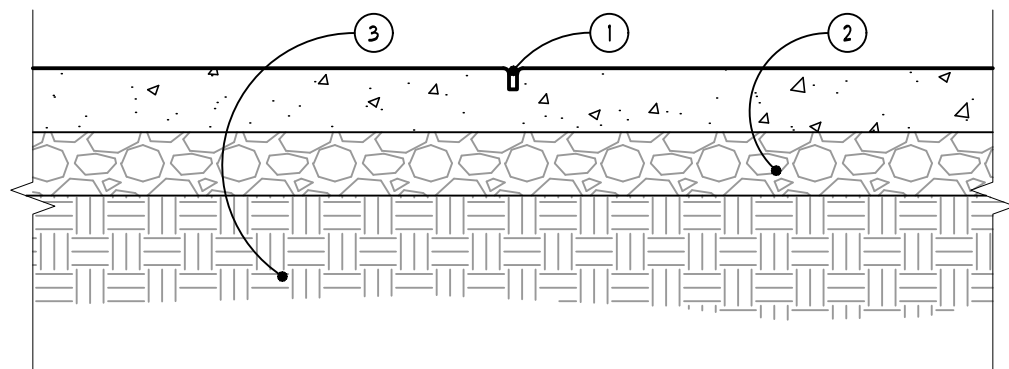
3 Precast Segmental Retaining Wall
SCALE: 1/2" = 1'-0"

- 1 1-1/2" THICK METAL DONOR PLAQUE INSET IN EXPOSED AGGREGATE PAVEMENT
- 2 4" THK CONCRETE PAVEMENT WITH EXPOSED AGGREGATE FINISH - REFER TO PLANS AND SPECS FOR LOCATIONS
- 3 4" THK MDOT 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP. - REFER TO SPECS
- 3 EXISTING SUBGRADE, COMPACT TOP 12" (MIN) TO 95% MODIFIED PROCTOR

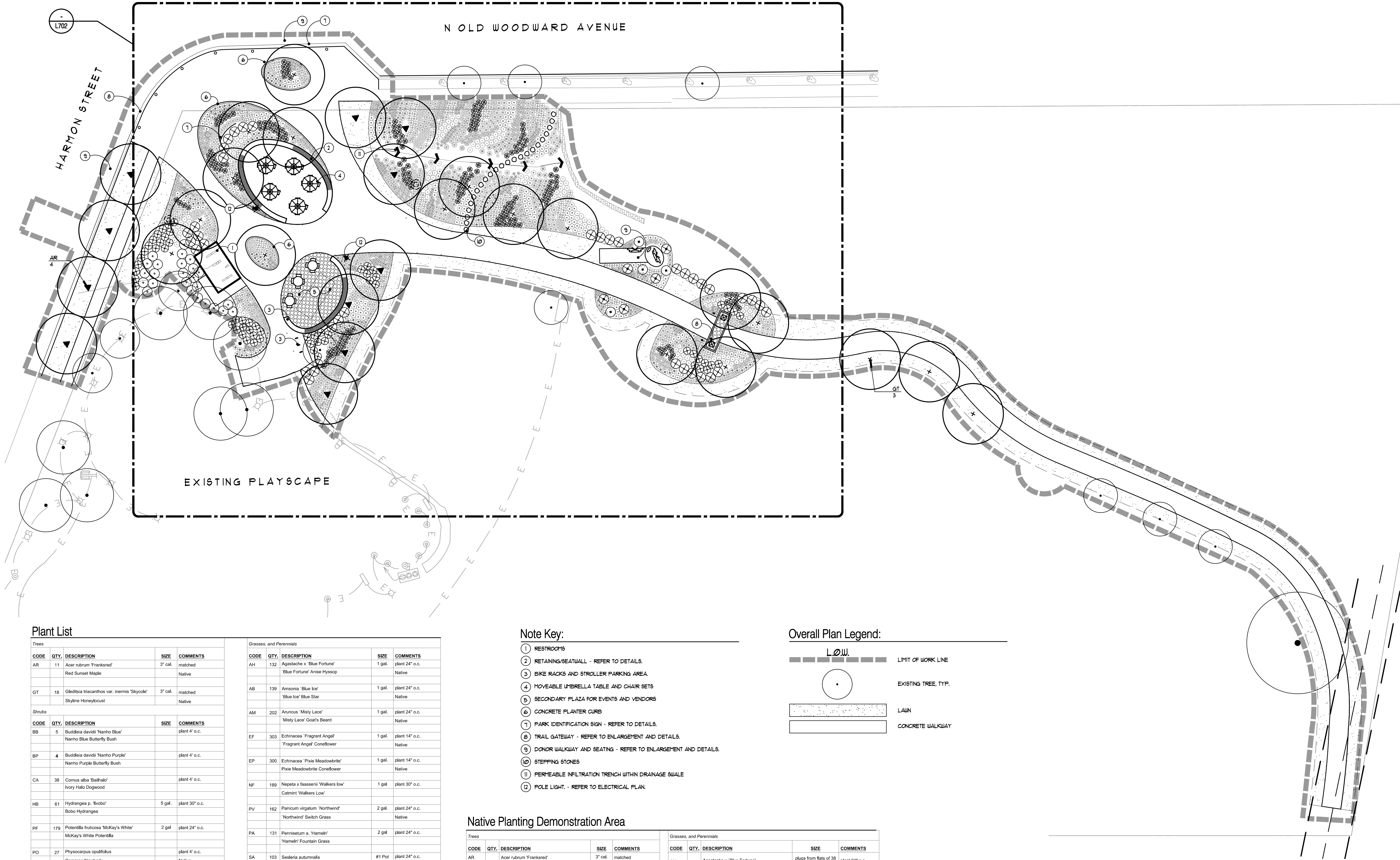


2 Exposed Aggregate Concrete Pavement with Metal Donor Plaque Inlay
SCALE: 1/2" = 1'-0"

- 1 1/8" THICK STEEL LETTERS WITH PINS READY FOR SETTING IN POURED CONCRETE
- 2 4" THK CONCRETE PAVEMENT WITH SAW CUT JOINTS AND EXPOSED AGGREGATE FINISH - REFER TO PLANS AND SPECS
- 3 4" THK MDOT 21AA AGGREGATE BASE COMPACTED TO 95% MODIFIED PROCTOR, TYP. - REFER TO SPECS
- 3 EXISTING SUBGRADE, COMPACT TOP 12" (MIN) TO 95% MODIFIED PROCTOR



1 Exposed Aggregate Concrete Pavement with Metal Quote Inlays
SCALE: 1/2" = 1'-0"



Plant List

Trees				
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
AR	11	Acer rubrum 'Frankford'	3" cal.	matched
		Red Sunset Maple		Native
GT	18	Gleditsia triacanthos var. inermis 'Skycole'	3" cal.	matched
		Skyline Honeylocust		Native
Shrubs				
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
BB	5	Buddleia davidii 'Nanho Blue'		plant 4" o.c.
		Nanho Blue Butterfly Bush		
BP	4	Buddleia davidii 'Nanho Purple'		plant 4" o.c.
		Nanho Purple Butterfly Bush		
CA	38	Cornus alba 'Ballhalo'		plant 4" o.c.
		Ivory Halo Dogwood		
HB	61	Hydrangea p. 'Ilwaco'	5 gal.	plant 30" o.c.
		Babo Hydrangea		
PF	179	Potentilla fruticosa 'McKay's White'	2 gal.	plant 24" o.c.
		McKay's White Potentilla		
PO	27	Physocarpus opulifolius		plant 4" o.c.
		Common Ninebark		Native

Grasses, and Perennials				
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
AH	132	Agastache x 'Blue Fortune'	1 gal.	plant 24" o.c.
		'Blue Fortune' Anise Hyssop		Native
AB	139	Amsonia 'Blue Ice'	1 gal.	plant 24" o.c.
		'Blue Ice' Blue Star		Native
AM	202	Anuncus 'Misty Lace'	1 gal.	plant 24" o.c.
		'Misty Lace' Goat's Beard		Native
EF	303	Echinacea 'Fragrant Angel'	1 gal.	plant 14" o.c.
		'Fragrant Angel' Coneflower		Native
EP	300	Echinacea 'Pole Meadowrite'	1 gal.	plant 14" o.c.
		Pole Meadowrite Coneflower		Native
NF	189	Nepeta x faassenii 'Walkers low'	1 gal.	plant 30" o.c.
		Catmint 'Walkers Low'		
PV	162	Panicum virgatum 'Northwind'	2 gal.	plant 24" o.c.
		'Northwind' Switch Grass		Native
PA	131	Pennisetum s. 'Hameln'	2 gal.	plant 24" o.c.
		'Hameln' Fountain Grass		
SA	103	Sceleria autumnalis	#1 Pot	plant 24" o.c.
		Autumn Moor Grass		
SH	222	Sporobolus heterolepis	#1 Pot	plant 24" o.c.
		Prairie Dropseed		Native

Note Key:

- RESTROOMS
- RETAINING/SEATWALL - REFER TO DETAILS.
- BIKE RACKS AND STROLLER PARKING AREA
- MOVEABLE UMBRELLA TABLE AND CHAIR SETS
- SECONDARY PLAZA FOR EVENTS AND VENDORS
- CONCRETE PLANTER CURB
- PARK IDENTIFICATION SIGN - REFER TO DETAILS.
- TRAIL GATEWAY - REFER TO ENLARGEMENT AND DETAILS.
- DONOR WALKWAY AND SEATING - REFER TO ENLARGEMENT AND DETAILS.
- STEPPING STONES
- PERMEABLE INFILTRATION TRENCH WITHIN DRAINAGE SWALE
- POLE LIGHT - REFER TO ELECTRICAL PLAN.

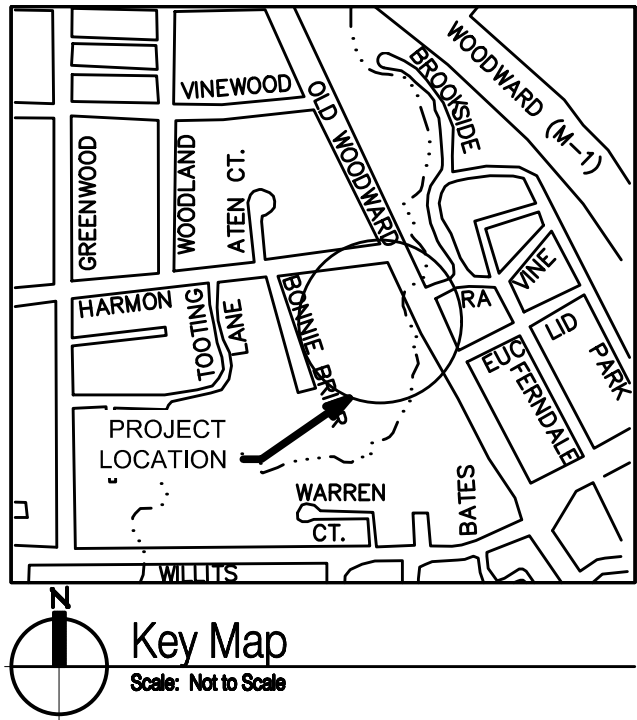
Overall Plan Legend:

- L.O.W.
- LIMIT OF WORK LINE
- EXISTING TREE, TYP.
- LAWN
- CONCRETE WALKWAY

Native Planting Demonstration Area

Trees				
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
AR		Acer rubrum 'Frankford'	3" cal.	matched
		Red Sunset Maple		Native
GT		Gleditsia triacanthos var. inermis 'Skycole'	3" cal.	matched
		Skyline Honeylocust		Native
Shrubs				
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
PF		Potentilla fruticosa 'McKay's White'	2 gal.	plant 24" o.c.
		McKay's White Potentilla		

Grasses, and Perennials				
CODE	QTY.	DESCRIPTION	SIZE	COMMENTS
AH		Agastache x 'Blue Fortune'	plugs from flats of 36	plant 24" o.c.
		'Blue Fortune' Anise Hyssop		Native
AB		Amsonia 'Blue Ice'	plugs from flats of 36	plant 24" o.c.
		'Blue Ice' Blue Star		Native
AM		Anuncus 'Misty Lace'	plugs from flats of 36	plant 24" o.c.
		'Misty Lace' Goat's Beard		Native
EF		Echinacea 'Fragrant Angel'	plugs from flats of 36	plant 14" o.c.
		'Fragrant Angel' Coneflower		Native
EP		Echinacea 'Pole Meadowrite'	plugs from flats of 36	plant 14" o.c.
		Pole Meadowrite Coneflower		Native
NF		Nepeta x faassenii 'Walkers low'	plugs from flats of 36	plant 30" o.c.
		Catmint 'Walkers Low'		
PV		Panicum virgatum 'Northwind'	plugs from flats of 36	plant 24" o.c.
		'Northwind' Switch Grass		Native
SA		Sceleria autumnalis	plugs from flats of 36	plant 24" o.c.
		Autumn Moor Grass		
SH		Sporobolus heterolepis	plugs from flats of 36	plant 24" o.c.
		Prairie Dropseed		Native



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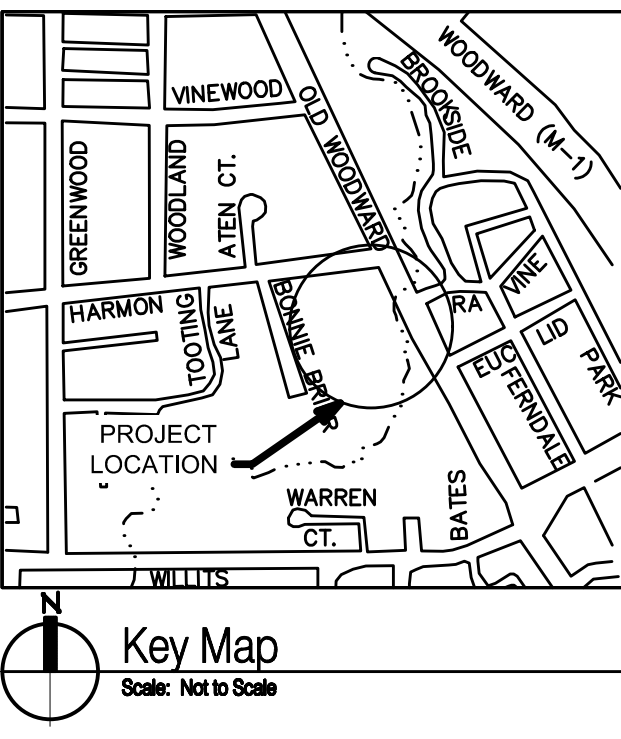
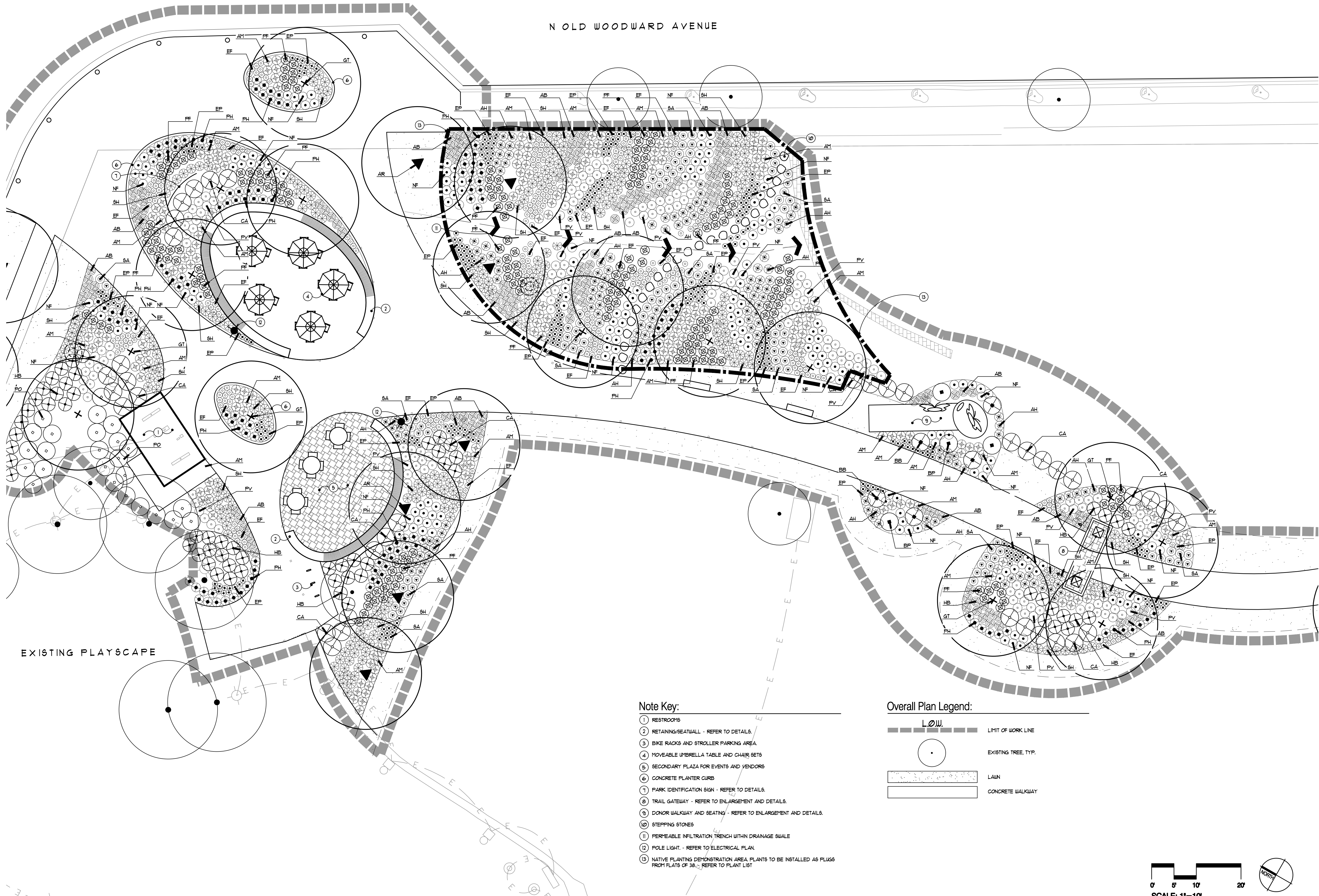
**GRISSIM
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Landscape Architecture
15000 Edward N. Hines Dr., Suite A
Plymouth, MI 48170
Ph: 248-347-7010

Project: Booth Park Plaza & Trail Improvements
Birmingham, Michigan
Sheet: Landscape Plan
Job Number: B22-241
Drawn: MS
Checked: SLG
Scale: _____

Date: 2024-08-06 Issued for: City Commission Review

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CONSULTING ENGINEERS SINCE 1915
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GRISSIM METZ ANDRIESE

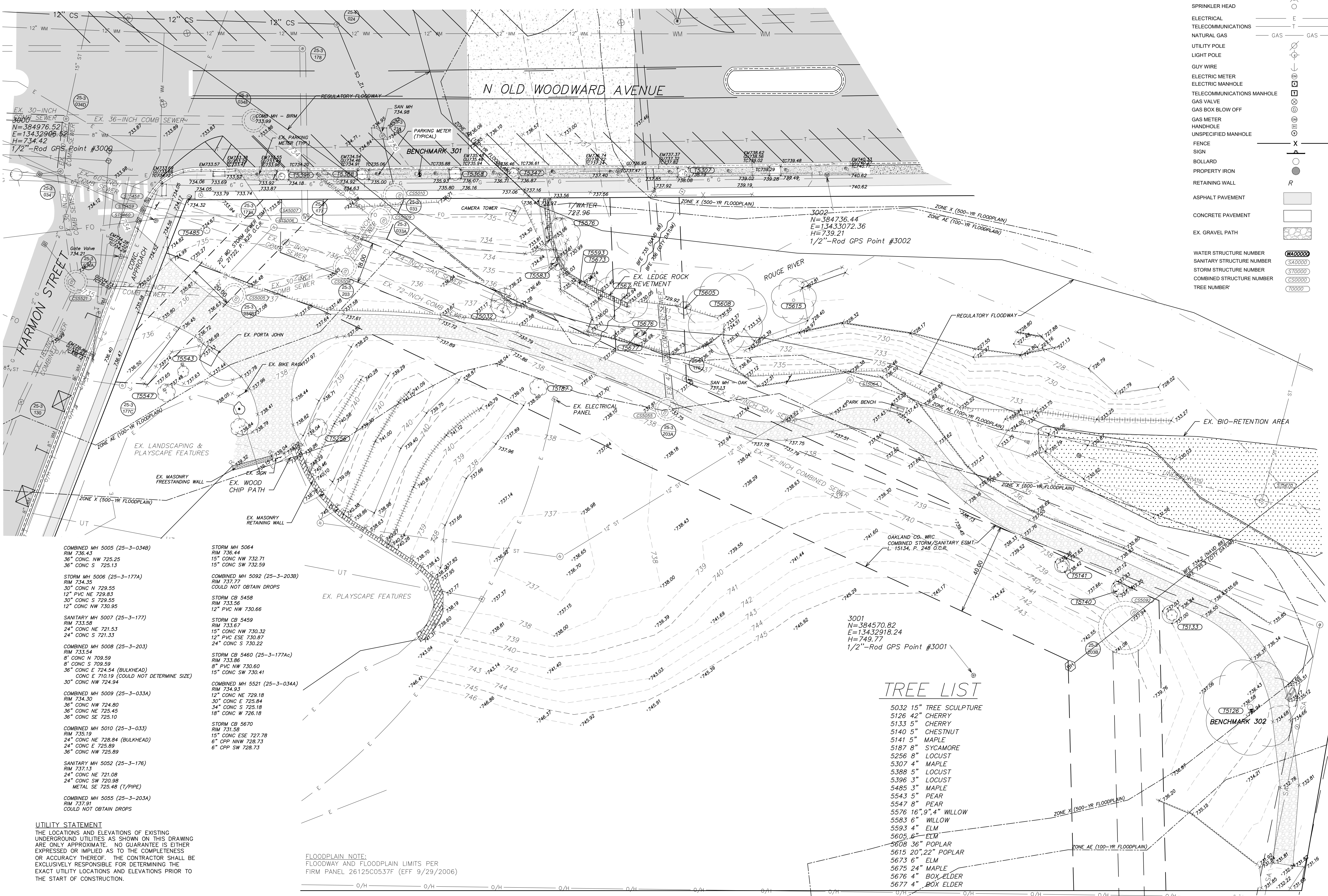
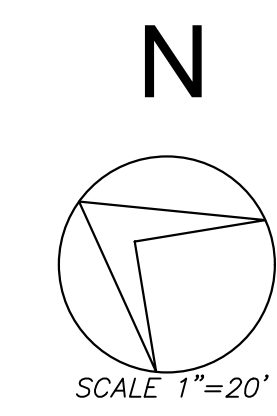
Landscape Architecture
15000 Edward N. Hines Dr., Suite A
Plymouth, MI 48170
Ph: 248-347-7010

Project:	Booth Park Plaza & Trail Improvements
Location:	Birmingham, Michigan
Sheet:	Landscape Plan Enlargement
Job Number:	B22-241
Drawn:	MS
Checked:	SLG
Scale:	

Date: 2024-08-06 Issued for: City Commission Review

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Sheet Number: **L702**
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- COMBINED MH 5005 (25-3-034B)
RIM 736.43
36" CONC. NW 725.25
36" CONC. S 725.13
- STORM MH 5006 (25-3-177A)
RIM 734.35
30" CONC. N 729.55
12" PVC NE 729.83
30" CONC. S 729.55
12" CONC. NW 730.95
- SANITARY MH 5007 (25-3-177)
RIM 733.58
24" CONC. NE 721.53
24" CONC. S 721.33
- COMBINED MH 5008 (25-3-203)
RIM 733.54
8" CONC. N 709.59
8" CONC. S 709.59
36" CONC. E 724.54 (BULKHEAD)
30" CONC. E 710.19 (COULD NOT DETERMINE SIZE)
30" CONC. NW 724.84
- COMBINED MH 5009 (25-3-033A)
RIM 734.30
36" CONC. NW 724.80
36" CONC. NE 725.45
36" CONC. SE 725.10
- STORM CB 5670
RIM 733.19
24" CONC. NE 728.84 (BULKHEAD)
24" CONC. E 725.89
36" CONC. NW 725.89
- SANITARY MH 5052 (25-3-176)
RIM 737.13
24" CONC. NE 721.08
24" CONC. SW 720.98
METAL SE 725.48 (T/PIPE)
- COMBINED MH 5055 (25-3-203A)
RIM 737.91
COULD NOT OBTAIN DROPS
- STORM MH 5064
RIM 735.44
15" CONC. NW 732.71
15" CONC. SW 732.59
- COMBINED MH 5092 (25-3-203B)
RIM 737.77
COULD NOT OBTAIN DROPS
- STORM CB 5458
RIM 733.56
12" PVC NW 730.66
- STORM CB 5459
RIM 733.67
15" CONC. NW 730.32
12" PVC ESE 730.87
24" CONC. S 730.22
- STORM CB 5460 (25-3-177A)
RIM 733.86
8" PVC NW 730.60
15" CONC. SW 730.41
- COMBINED MH 5521 (25-3-034A)
RIM 734.93
12" CONC. NE 729.18
30" CONC. E 725.84
34" CONC. S 725.18
18" CONC. W 726.18
- STORM CB 5670
RIM 731.58
15" CONC. ESE 727.78
6" OPP. NNW 728.73
6" OPP. SW 728.73

UTILITY STATEMENT
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 DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

FLOODPLAIN NOTE:
FLOODWAY AND FLOODPLAIN LIMITS PER FIRM PANEL 26125C0537F (EFF 9/29/2006)

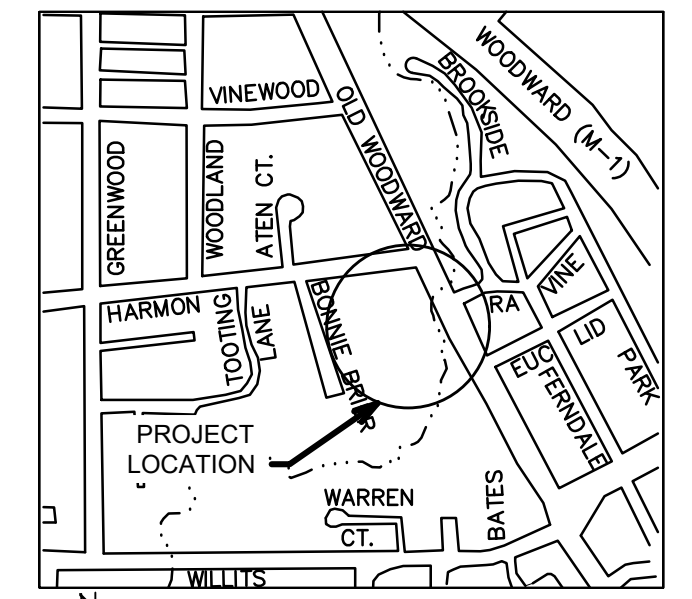
BENCHMARKS:

BENCHMARK 301
SET "X" IN NORTHWEST BOLT OF LIGHT POLE
ELEVATION = 736.05
CITY OF BIRMINGHAM VERTICAL DATUM

BENCHMARK 302
SET BENCH TIE IN SOUTHWEST SIDE OF 42" SYCAMORE TREE
ELEVATION = 736.20
CITY OF BIRMINGHAM VERTICAL DATUM

- LEGEND**
- STORM SEWER
 - SANITARY SEWER
 - COMBINED SEWER
 - WATER MAIN
 - STORM MANHOLE
 - STORM CATCH BASIN
 - INLET
 - END SECTION
 - BUILDING DOWNSPOUT
 - SANITARY MANHOLE
 - GATE VALVE & WELL
 - GATE VALVE
 - WELL
 - WATER STOP BOX
 - HYDRANT
 - SPRINKLER HEAD
 - ELECTRICAL
 - TELECOMMUNICATIONS
 - NATURAL GAS
 - UTILITY POLE
 - LIGHT POLE
 - GUY WIRE
 - ELECTRIC METER
 - ELECTRIC MANHOLE
 - TELECOMMUNICATIONS MANHOLE
 - GAS VALVE
 - GAS BOX BLOW OFF
 - GAS METER
 - HANDHOLE
 - UNSPECIFIED MANHOLE
 - FENCE
 - SIGN
 - BOLLARD
 - PROPERTY IRON
 - RETAINING WALL
 - ASPHALT PAVEMENT
 - CONCRETE PAVEMENT
 - EX. GRAVEL PATH
 - WATER STRUCTURE NUMBER
 - SANITARY STRUCTURE NUMBER
 - STORM STRUCTURE NUMBER
 - COMBINED STRUCTURE NUMBER
 - TREE NUMBER

- TREE LIST**
- 5032 15" TREE SCULPTURE
 - 5126 42" CHERRY
 - 5133 5" CHERRY
 - 5140 5" CHESTNUT
 - 5141 5" MAPLE
 - 5187 8" SYCAMORE
 - 5256 8" LOCUST
 - 5307 4" MAPLE
 - 5388 5" LOCUST
 - 5396 3" LOCUST
 - 5483 3" MAPLE
 - 5543 5" PEAR
 - 5547 8" PEAR
 - 5576 16"9",4" WILLOW
 - 5583 6" WILLOW
 - 5593 4" ELM
 - 5605 6" ELM
 - 5608 36" POPLAR
 - 5615 20",22" POPLAR
 - 5673 6" ELM
 - 5675 24" MAPLE
 - 5676 4" BOX ELDER
 - 5677 4" BOX ELDER



Key Map
Scale: Not to Scale



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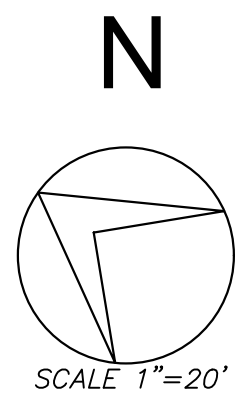
Project: Booth Park Plaza & Trail Improvements
Birmingham, Michigan

Sheet: Existing Conditions/Topographic Survey

Job Number: B22-241/20240478
Drawn: RAD
Checked: JJS
Scale: 1"=20'

Date: 8-6-2024 Issued for: Issued for City Commission Review

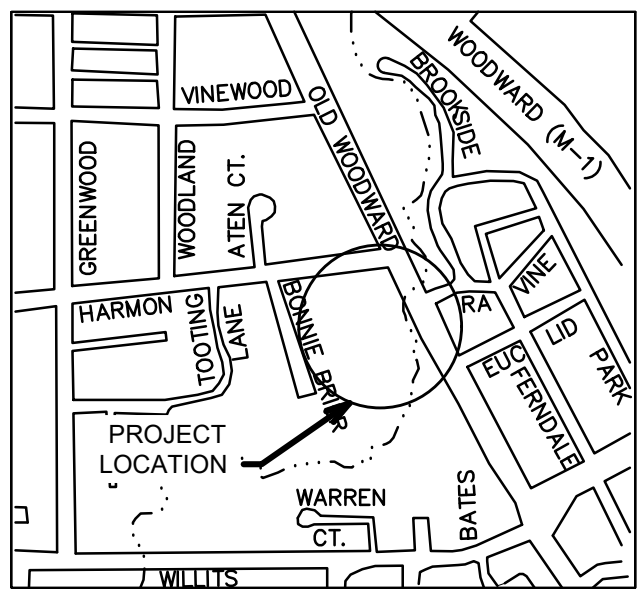
PRELIMINARY
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BENCHMARKS:

BENCHMARK 301
SET "X" IN NORTHWEST BOLT OF LIGHT POLE
ELEVATION = 736.05

BENCHMARK 302
SET BENCH TIE IN SOUTHWEST SIDE OF 42" SYCAMORE TREE
ELEVATION = 736.20



Key Map
Scale: Not to Scale



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Project:
Booth Park
Plaza & Trail Improvements
Birmingham, Michigan

Sheet:
Utility Plan

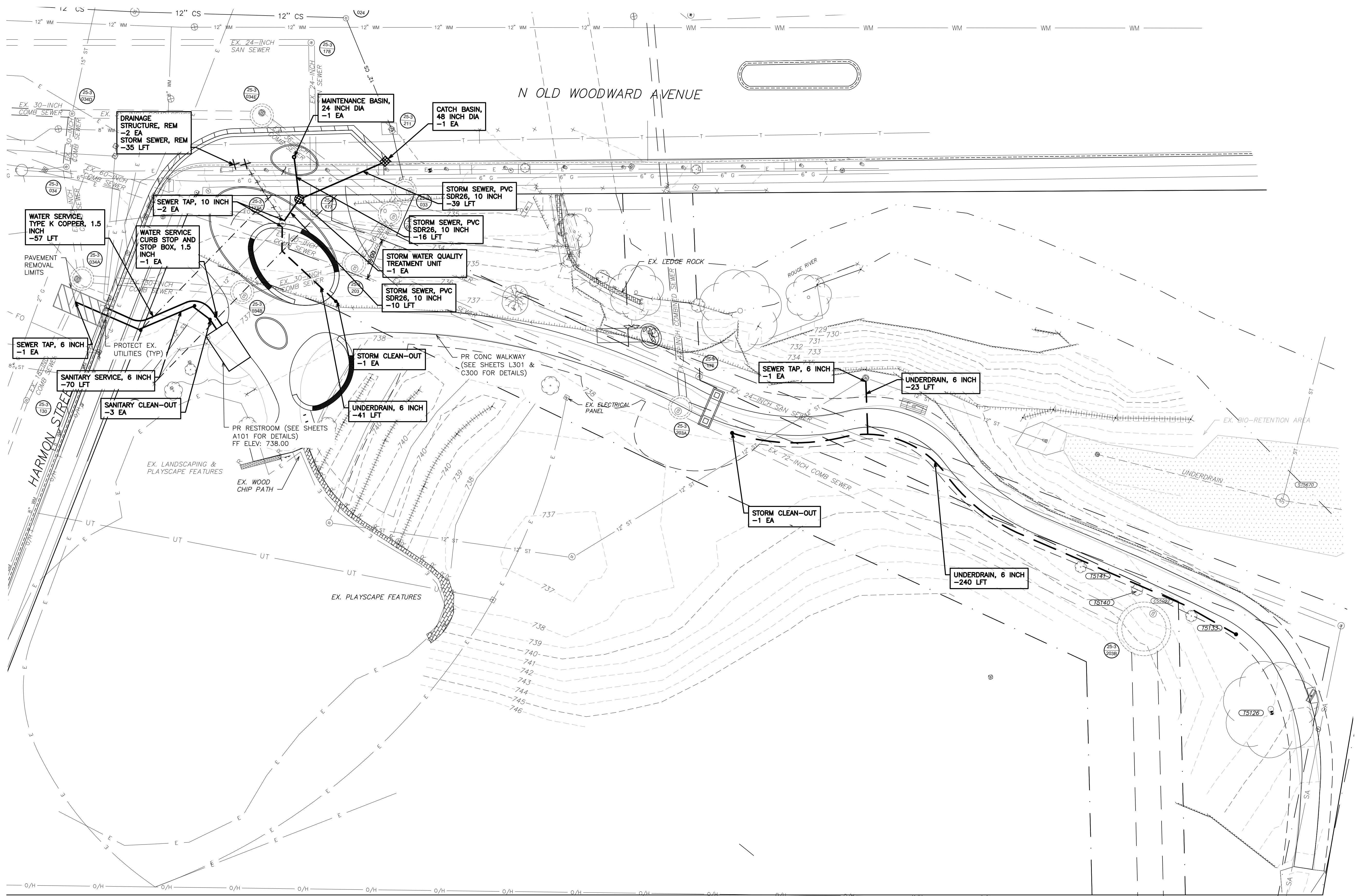
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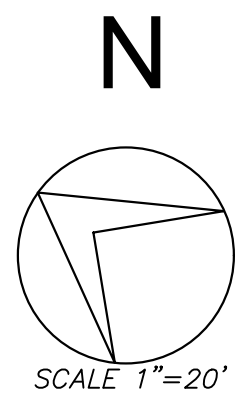
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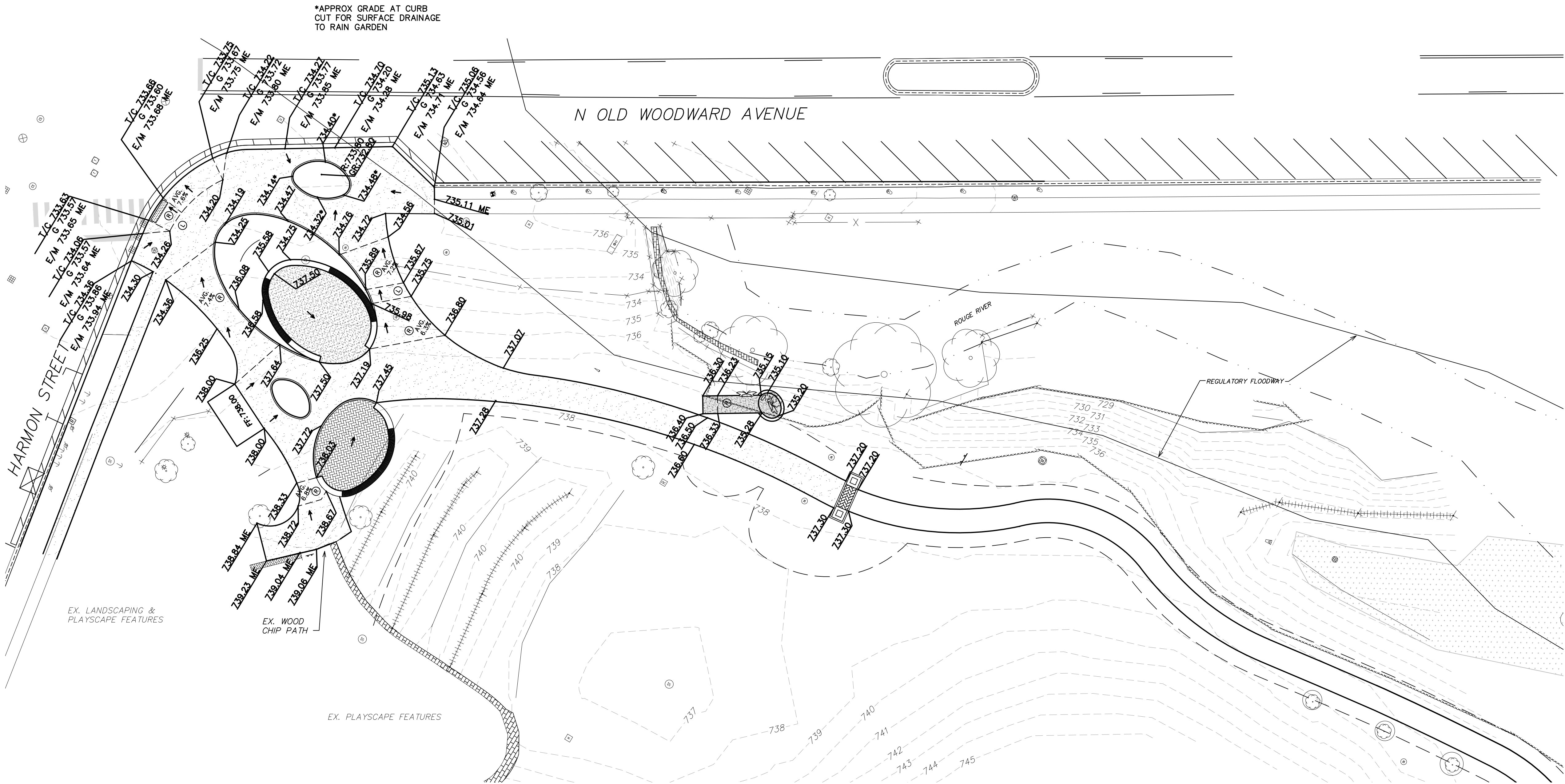
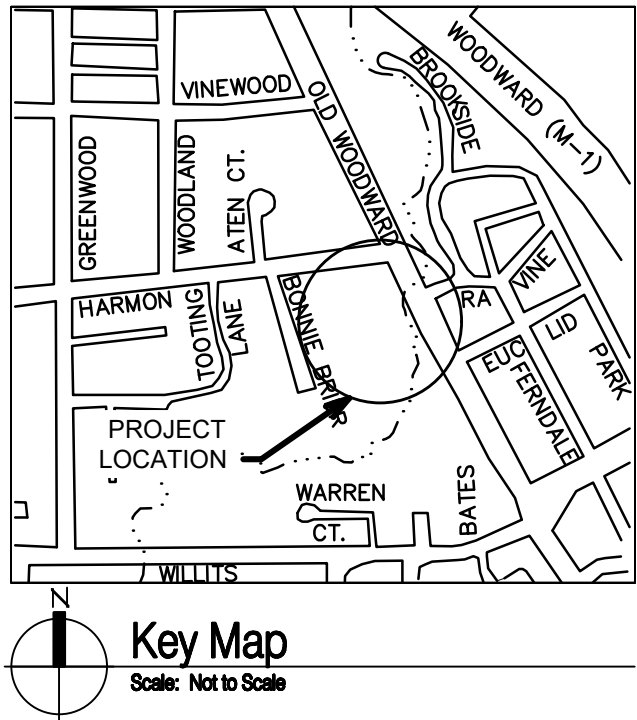
Sheet Number:
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C200





BENCHMARKS:
BENCHMARK 301
SET "X" IN NORTHWEST BOLT OF LIGHT POLE
ELEVATION = 736.05
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SET BENCH TIE IN SOUTHWEST SIDE OF 42" SYCAMORE TREE
ELEVATION = 736.20



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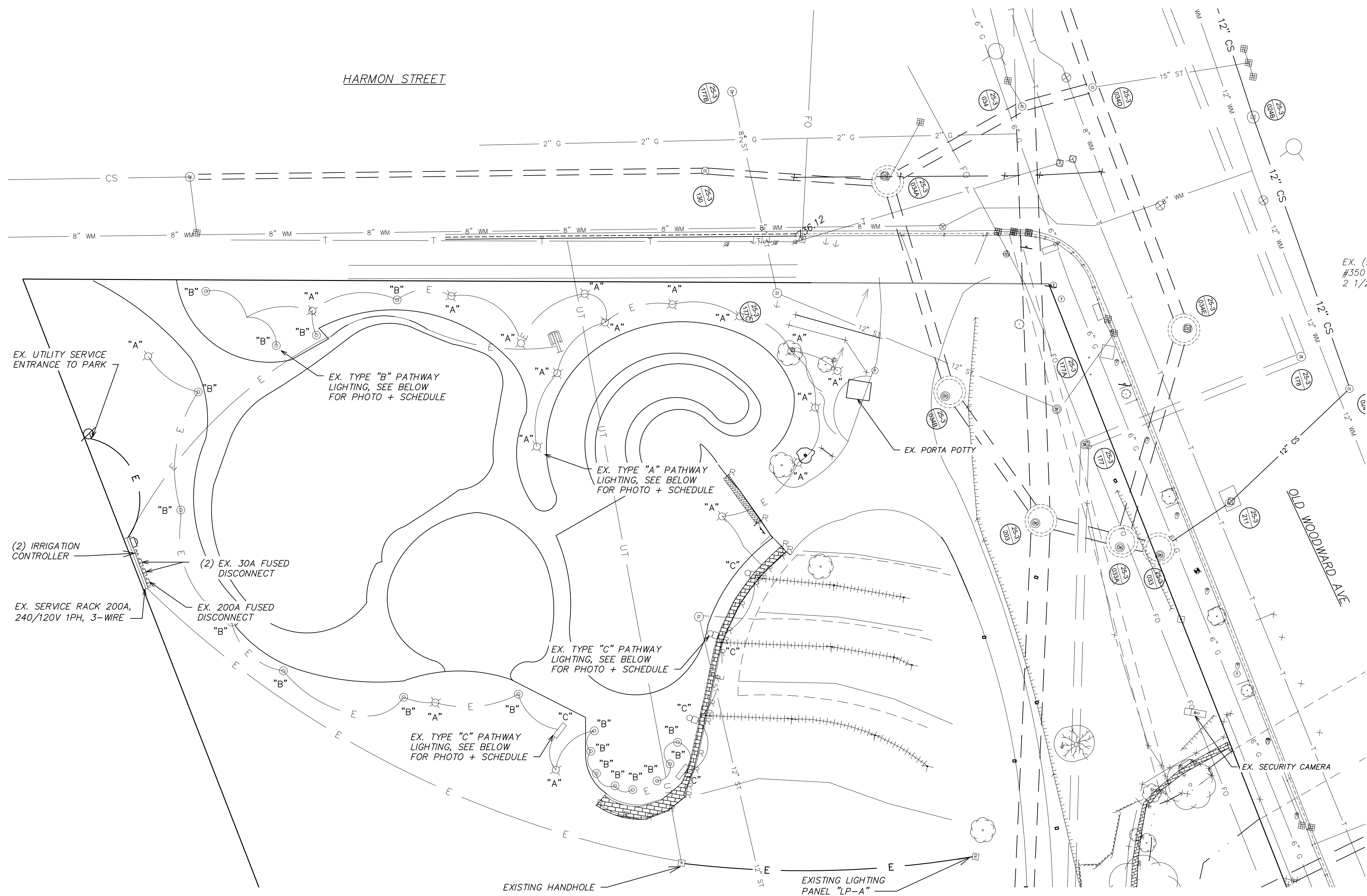
Project:
Booth Park
Plaza & Trail Improvements
Birmingham, Michigan

Sheet:
Site Grading

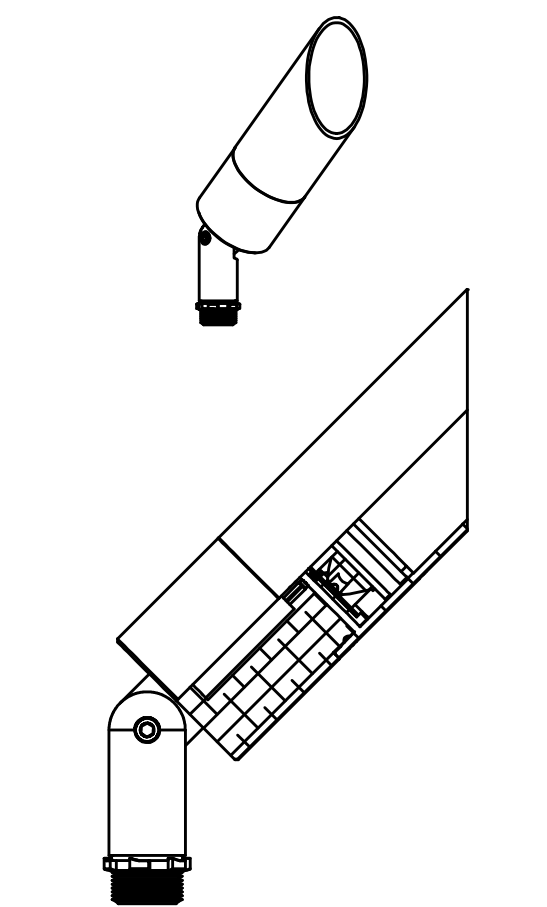
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Drawn: RAD
Checked: JJS
Scale: 1"=20'

Date: 8-6-2024 Issued for: Issued for City Commission Review

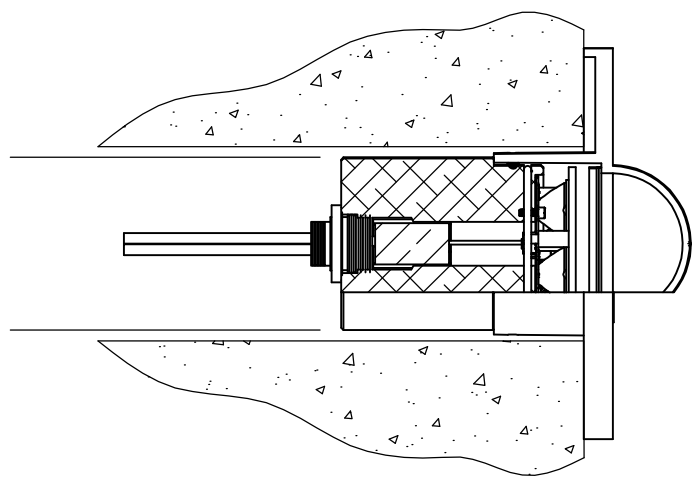
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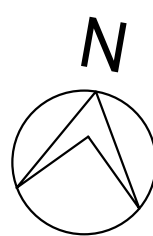
ELECTRICAL EXISTING SITE PLAN
SCALE: 1" = 20' - 0"



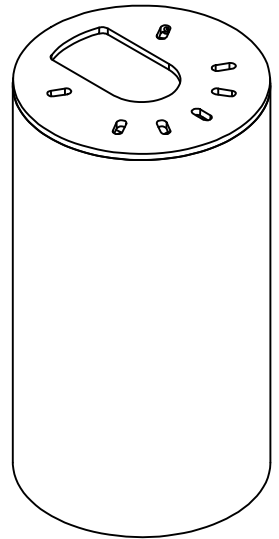
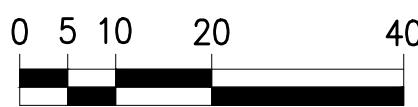
TYPE "A" LIGHTING



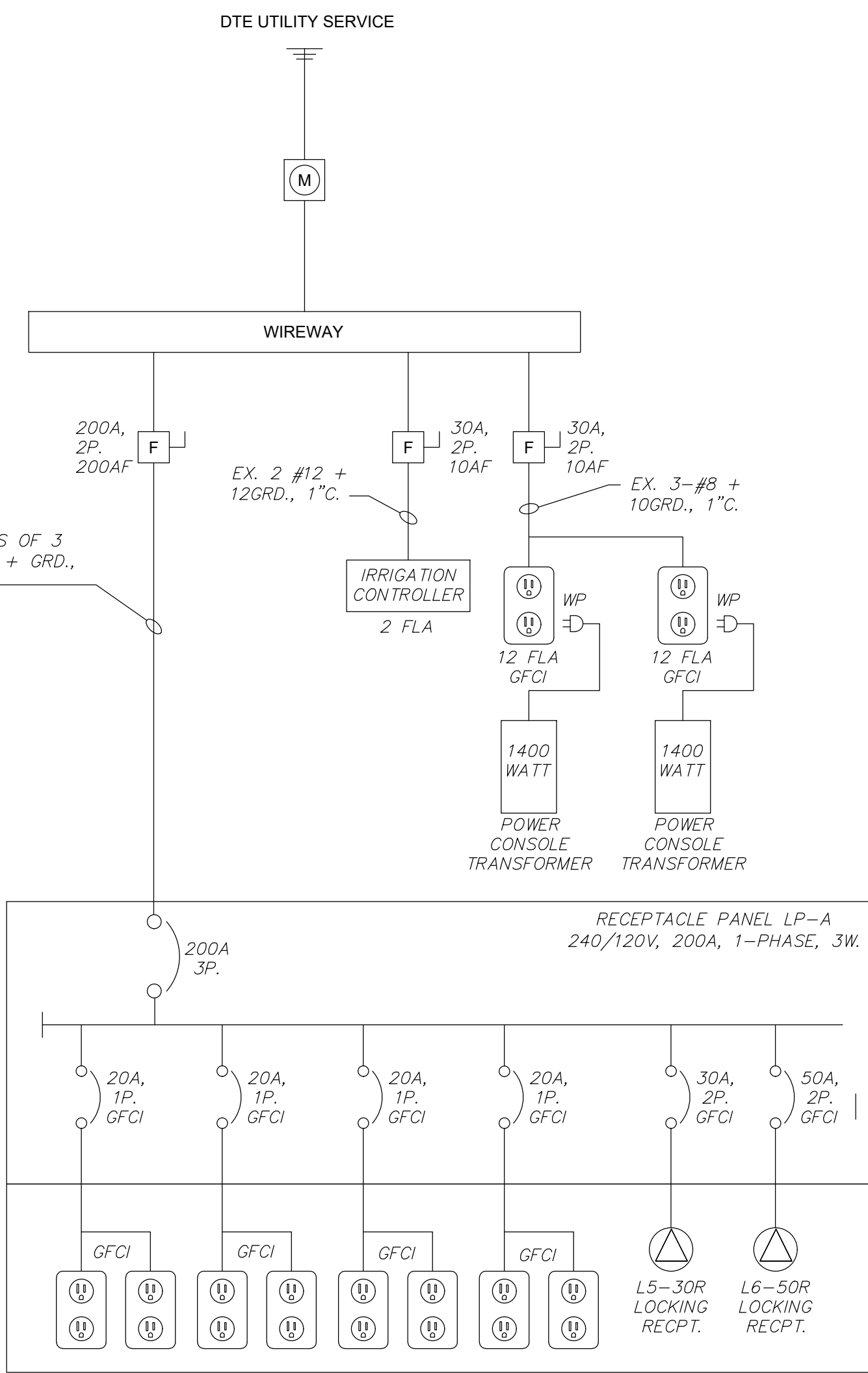
TYPE "B" LIGHTING



1" = 20'- 0"



TYPE "C" LIGHTING



EXISTING ONE-LINE DIAGRAM

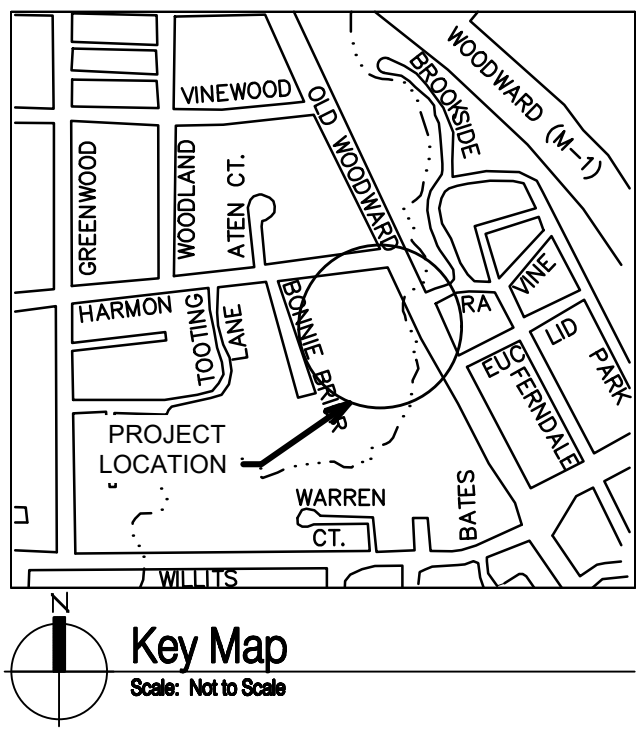
EXISTING LIGHT FIXTURE SCHEDULE			
TYPE	MANUFACTURER	DESCRIPTION	QTY
'A'	B-K LIGHTING DELTA STAR #DS-0-BLP-9-A WITH ARLINGTON #GLP-19B-BAS	PROVIDE STYLE A MR16 50 WATT LAMP FOR USE WITH REMOTE TRANSFORMER	18
'B'	B-K LIGHTING ADJUSTABLE WELL STAR #AW-0-NAT-9-11-CPS	PROVIDE CAST BRASS 20 WATT MR16 LAMP WITH CONCRETE POUR COLLAR	19
'C'	B-K LIGHTING NICHE DRILL STEP STAR #CD-1-BLP-A	PROVIDE MR16 35 WATT LAMP	5

ELECTRICAL LEGEND

- ⊗ LOW VOLTAGE TREE LIGHT FIXTURE
- ▭ LOW VOLTAGE WALKWAY LIGHT FIXTURE
- ▭ LOW VOLTAGE RECESSED WALKWAY LIGHT FIXTURE
- ⊙ LOW VOLTAGE INGROUND LIGHT FIXTURE
- ⎓ FUSED DISCONNECT-NEMA 3R ENCLOSURE
- ⌚ IRRIGATION CONTROLLER 3R ENCLOSURE
- ⎓ POWER CONSOLE TRANSFORMER
- ⎓ PANEL BOARD
- ⎓ CT CABINET

UTILITIES PLAN LEGEND

- E — EXISTING UNDERGROUND ELECTRICAL CONDUIT
- — EXISTING UNDERGROUND COMBINED SEWER
- UT — EXISTING UNDERGROUND TELEPHONE LINE
- 12" ST — EXISTING UNDERGROUND CONCRETE STORM PIPE
- ⊙ — EXISTING UNDERGROUND SEWAGE PIPE



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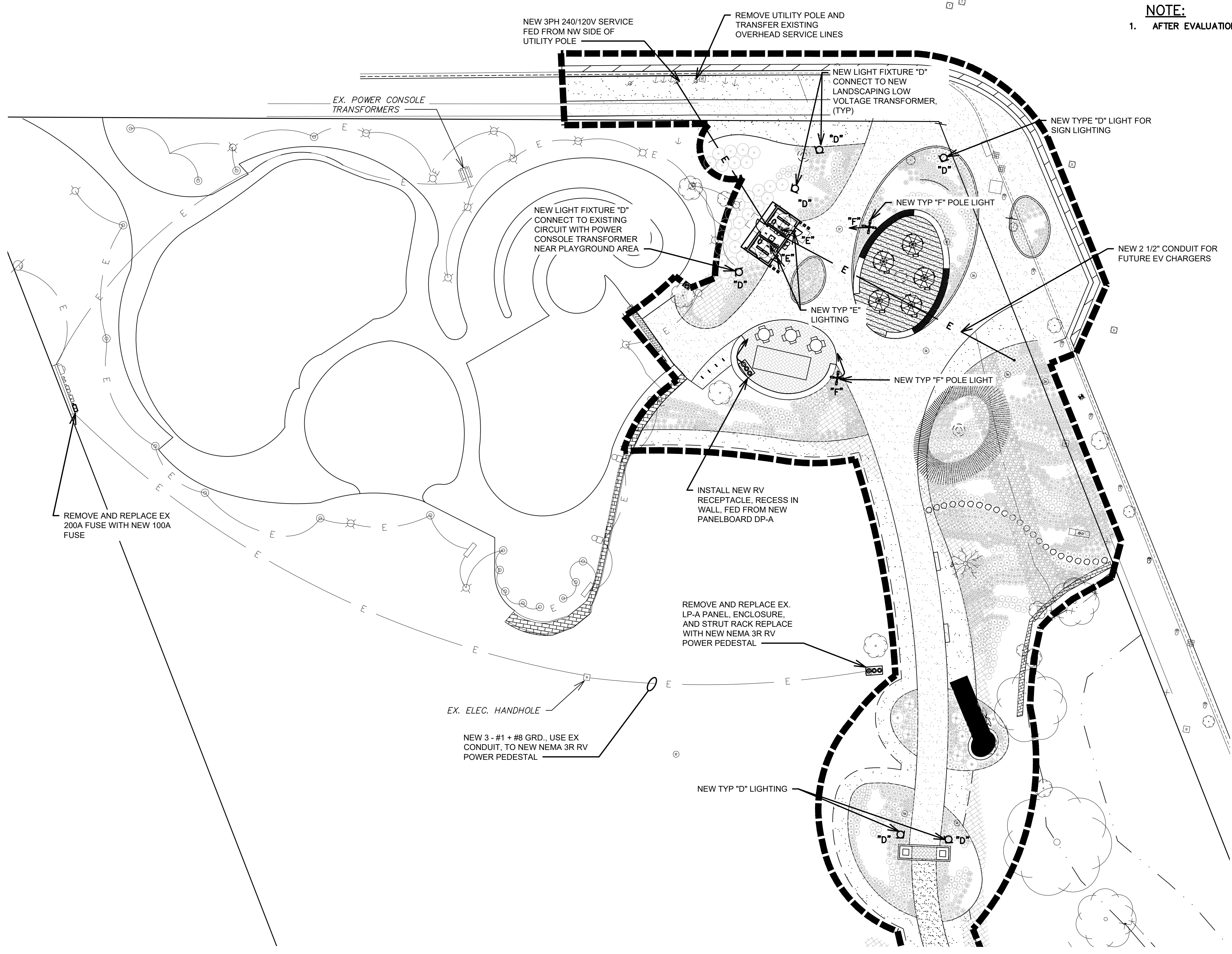
**GRISSIM
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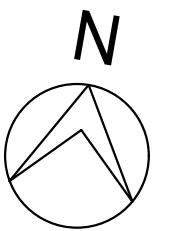
Project: Booth Park Plaza & Trail Improvements
Birmingham, Michigan
Sheet: Existing Electrical Site Plan
Job Number: B22-241/20240478
Drawn: DJK
Checked: ARU
Scale: 1"=20'

Date: 8-6-2024 Issued for: Issued for City Commission Review

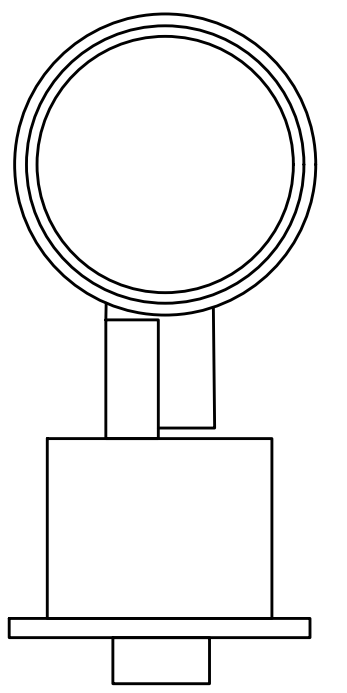
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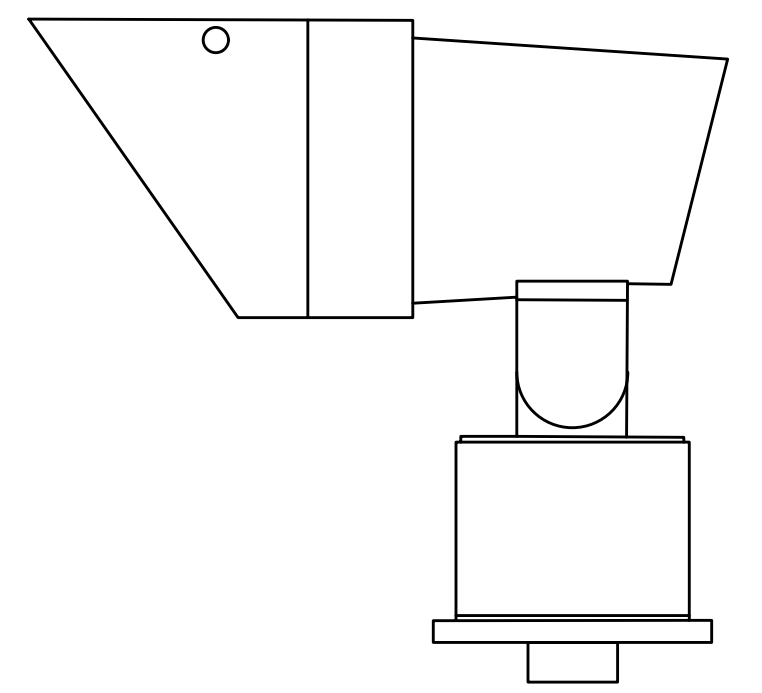
ELECTRICAL LIGHTING SITE PLAN
SCALE: 1" = 20' - 0"



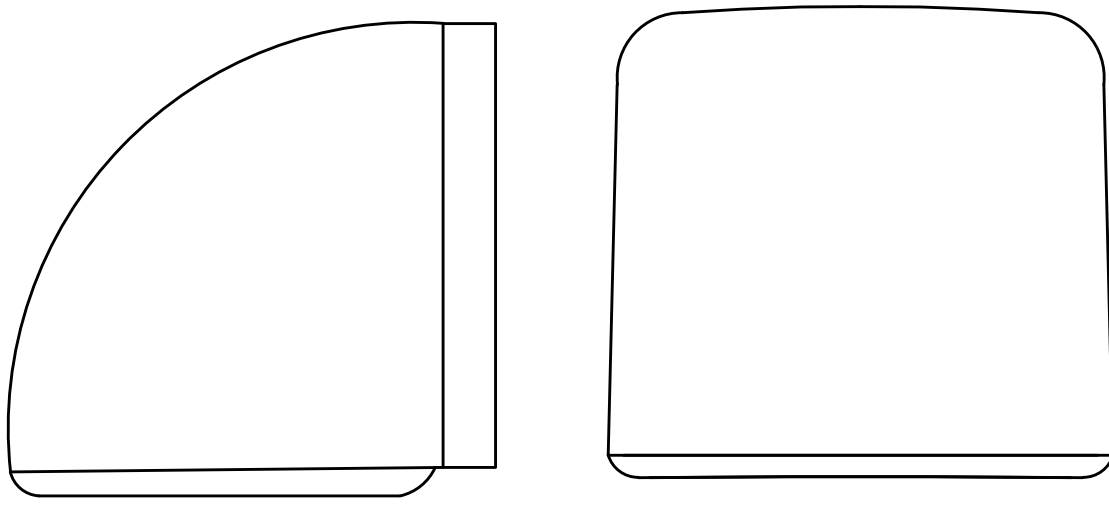
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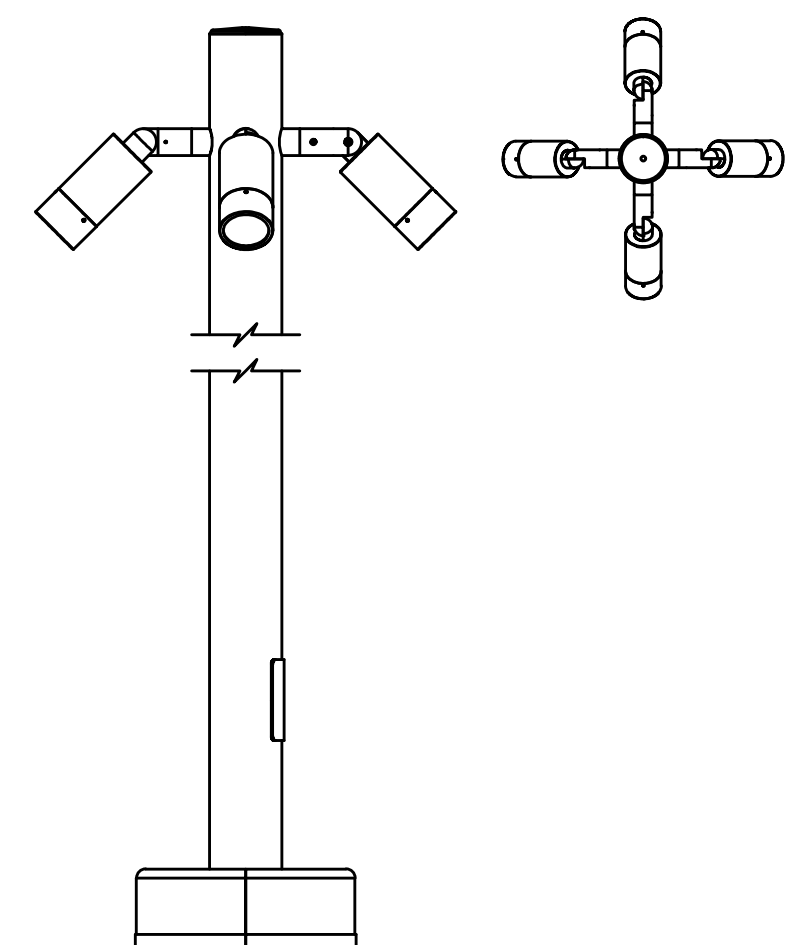
TYPE "D" LIGHTING



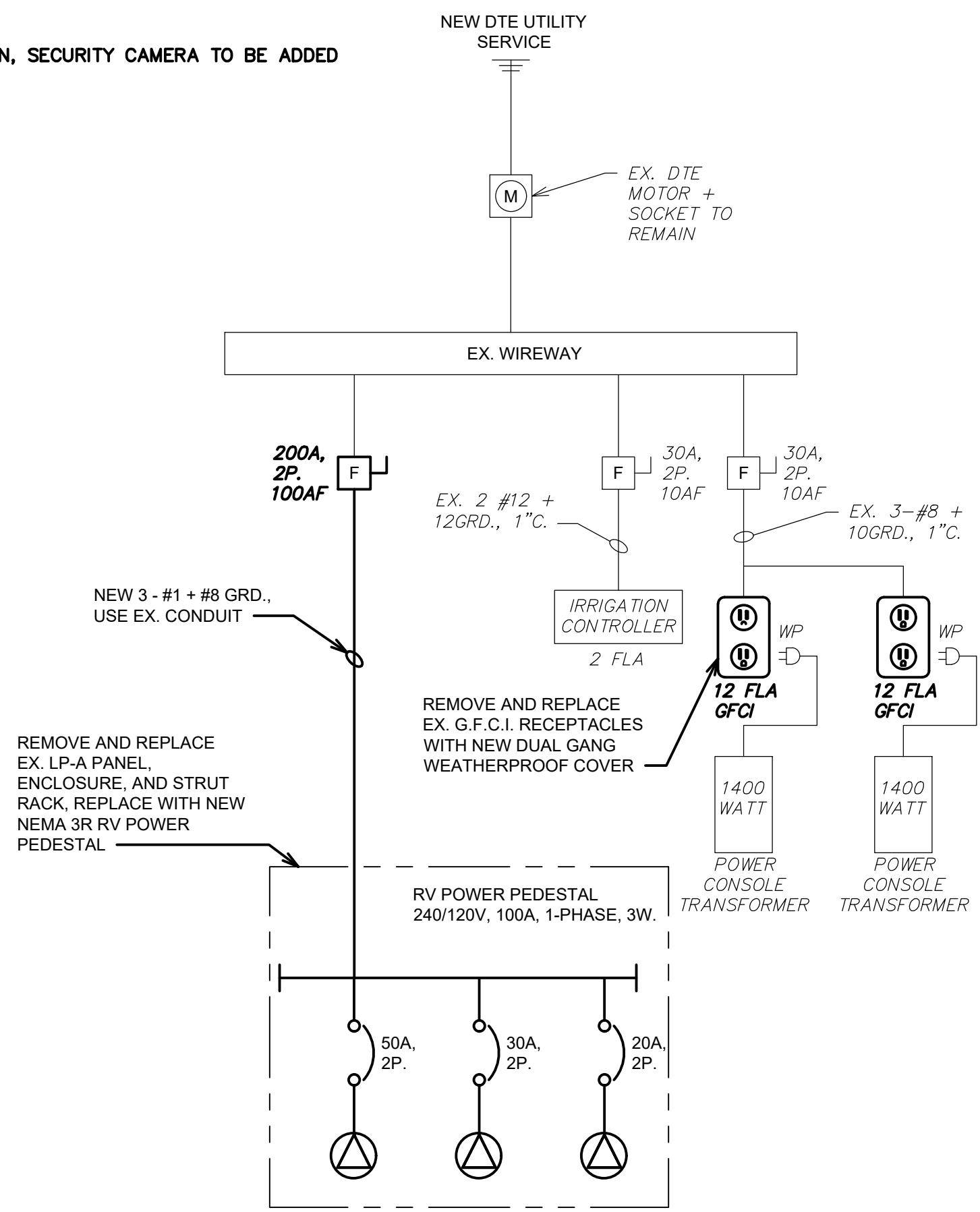
TYPE "E" LIGHTING



TYPE "F" LIGHTING



NOTE:
1. AFTER EVALUATION, SECURITY CAMERA TO BE ADDED



PROPOSED ELECTRICAL ONE-LINE DIAGRAM FROM EXISTING SERVICE

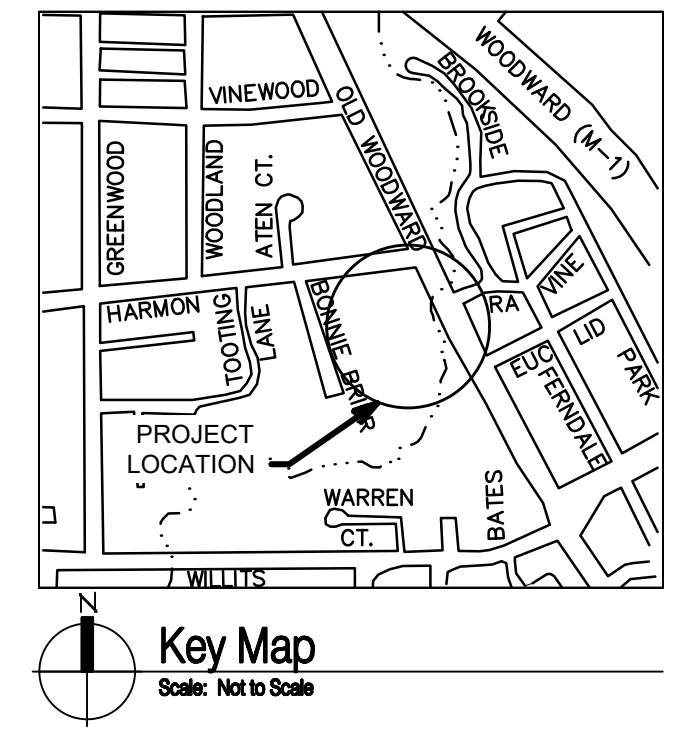
ELECTRICAL LEGEND

- LOW VOLTAGE TREE LIGHT FIXTURE
- LOW VOLTAGE WALKWAY LIGHT FIXTURE
- LOW VOLTAGE RECESSED WALKWAY LIGHT FIXTURE
- LOW VOLTAGE INGROUND LIGHT FIXTURE
- 120V POLE LIGHT
- 120V HIGH ABUSE WALL LIGHT
- 120V DIRECTIONAL ACCENT LIGHTING
- FUSED DISCONNECT-NEMA 3R ENCLOSURE
- IRRIGATION CONTROLLER 3R ENCLOSURE
- POWER CONSOLE TRANSFORMER
- PANEL BOARD
- CT CABINET

UTILITIES PLAN LEGEND

- E EXISTING UNDERGROUND ELECTRICAL CONDUIT
- EXISTING UNDERGROUND COMBINED SEWER
- UT EXISTING UNDERGROUND TELEPHONE LINE
- 12" ST EXISTING UNDERGROUND CONCRETE STORM PIPE
- EXISTING UNDERGROUND SEWAGE PIPE
- PROPOSED UNDERGROUND ELECTRICAL CONDUIT

PROPOSED LIGHT FIXTURE SCHEDULE			
TYPE	MANUFACTURER	DESCRIPTION	QTY
'D'	WAC 5012-30BBBR	PROVIDE WIRING FROM DP-A	6
'E'	KENALL MILLENIUM FINITE FN9-4-7-MB-16L-40K 7-DV	PROVIDE WIRING FROM DP-A	2
"F"	B-K LIGHTING DENALI INTEGRAL POLE RS4-H4090-12-DE-TR -x120-WFL-12-11-A-E LV-120	PROVIDE WIRING FROM DP-A	2



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Project: _____
Booth Park
Plaza & Trail Improvements
Birmingham, Michigan
Sheet: _____
Proposed Electrical Plan
Job Number: B22-241/20240478
Drawn: DJK
Checked: ARU
Scale: 1"=20'

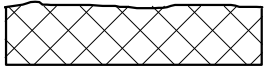
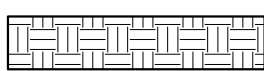
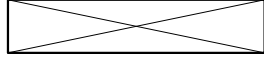
Date: 8-6-2024 Issued for: Issued for City Commission Review

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ROOM FINISH SCHEDULE																								
ROOM NO.	ROOM DESCRIPTION	FLOOR				BASE			CEILING			WALLS					REMARKS							
		EPOXY	SEALED CONC.	CARPET	LUXURY VINYL TILE	CERAMIC TILE	EXIST. TO REMAIN	4" PTD. WD. BASE	EXIST. TO REMAIN	4" EPOXY COVE	CERAMIC TILE BASE	CERAMIC WALL TILE	2X2 LAY-IN TILE	EXISTING	GYP. BD. SOFFIT	EXP. STRUCTURE-PTD.		WINDOW SHADES						
ROOM NAME																								
101	UNISEX RESTROOM	●							●					●					A	A	A	A	9' - 2"	WALL TYPES: A. = CMU BLOCK
102	MECHANICAL EQUIPMENT ROOM	●							●					●					A	A	A	A	9' - 2"	
103	UNISEX RESTROOM	●							●					●					A	A	A	A	9' - 2"	

DOOR HARDWARE:

1. SHOP DRAWINGS: INDICATE LOCATIONS AND MOUNTING HEIGHTS OF EACH TYPE OF HARDWARE, AND MATERIAL TYPES. SUBMIT MANUFACTURER'S PARTS LISTS, AND TEMPLATES TO STEEL DOOR AND FRAME MANUFACTURERS FOR MORTISING OF STEEL DOORS AND FRAMES. ALL NECESSARY TEMPLATES AND SCHEDULES SHALL BE PROVIDED AT SUCH TIME SO AS NOT TO DELAY THE WORK. REFER TO DELIVERY, STORAGE AND HANDLING HEREIN FOR FORWARDING REQUIREMENTS OF HARDWARE.
2. PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS: ANSI A117.1 – SPECIFICATIONS FOR MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED PEOPLE. NFPA 101. NFPA 80. NFPA 252.

MATERIALS LEGEND	
	SPLIT FACE CMU
	SOLID CEDAR COLUMNS
	EARTH
	WOOD BLOCKING (SECTION)

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK PRIOR TO INSTALLATION OR FABRICATION OF ANY COMPONENTS. ALL OPENINGS SHALL ALSO BE COORDINATED. CONTRACTOR TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
2. ALL WORK MUST CONFORM TO ALL STATUTES OF THE MICHIGAN BUILDING CODE (EDITION IN EFFECT AT THE TIME OF PERMIT), ALL STATE, COUNTY AND LOCAL ORDINANCES, CURRENT BARRIER FREE REGULATIONS, MIOSHA STRUCTURAL GUIDELINES, ASTM STANDARD TESTING PROCEDURES, OWNER'S PRACTICES AND GENERALLY ACCEPTED DESIGN PRACTICES. IF DISCREPANCIES IN DRAWING APPEAR, WORK MUST BE DONE PER CODE.
3. CONTRACTOR SHALL PROVIDE NEW OPENINGS AND SUPPORTS AS NOTED. FINAL OPENING DIMENSIONS, CONNECTION SIZES, CLEARANCES, ETC. MUST BE COORDINATED DURING CONSTRUCTION WITH APPROVED COMPONENTS. SEAL TIGHT ALL OPENINGS (ROOF, WALL AND CEILING), EQUIPMENT AND/OR PENETRATIONS – FROM AIR AND MOISTURE.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND APPROVED MANUFACTURERS.
5. ALL INSTALLATIONS TO BE COORDINATED WITH EXISTING CONDITIONS FOR PROPER SIZE, LOCATION AND PROVISIONS REQUIRED TO INSTALL COMPONENTS.
6. PIPING & CONDUIT HANGERS AND SUPPORT LOCATION ARE NOT SHOWN ON DRAWINGS. THE CONTRACTOR SHALL PROVIDE THE PIPING AND CONDUIT HANGERS AND SUPPORTS NECESSARY AS REQUIRED PER CODE.
7. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRANSITIONS, FITTINGS AND APPURTENANT CONNECTIONS.
8. CONFIRM ANY COLOR SELECTIONS WITH OWNER.
9. SHOP DRAWINGS AND PRODUCT DATA – THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND PROJECT ENGINEER, SHOP DRAWINGS & PRODUCT DATA SUBMITTALS FOR ALL PRODUCTS AND COMPONENTS TO BE USED ON THIS PROJECT. MAINTAIN ONE COPY OF ALL APPROVED SUBMITTALS AT THE SITE FOR THE OWNER'S REFERENCE.
10. "RECORD" DRAWINGS – THE CONTRACTOR SHALL MAINTAIN A SET OF "AS-BUILT" PRINTS, MARKED UP AT THE SITE, CONTAINING ALL "AS-BUILT" INFORMATION. TURN SET OVER TO OWNER UPON COMPLETION OF THE WORK.
11. INSTALL ALL MATERIALS IN COMPLIANCE W/ MFR. RECOMMENDATIONS AND CODE REQUIREMENTS.

SPECIFICATIONS

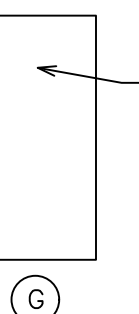
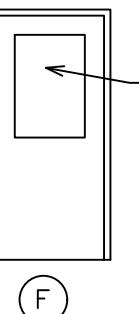
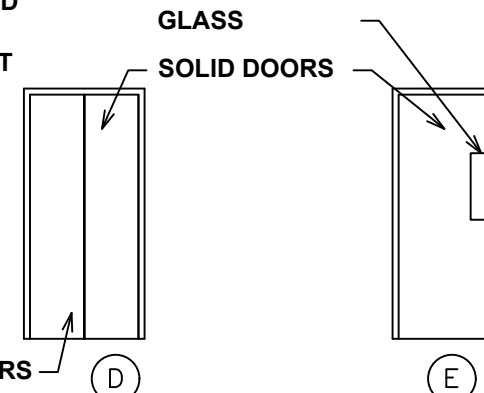
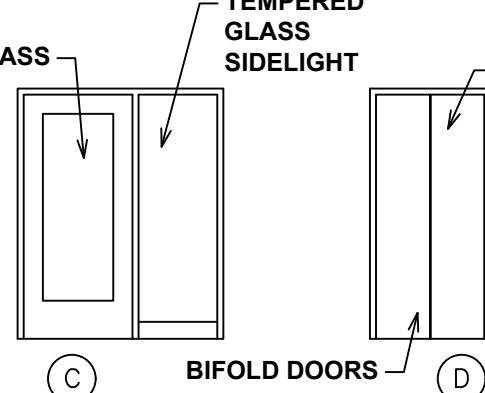
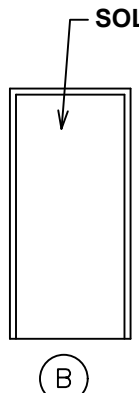
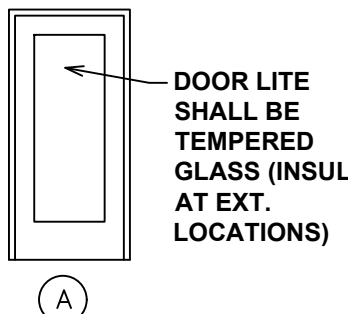
MINERAL FIBER INSULATION FOR ATTIC SPACE:
ROOF – R-38 RATED, 24" WIDE, FOIL FACED GLASS FIBER BATTS, OWENS CORNING FSK FACED ECOTOUCH OR EQUAL, COMPLYING WITH ASTM C665, TYPE 1, ASTM E 136 AND ASTM E84.

FOUNDATION INSULATION:
MINIMUM 3 INCH THICK (UNLESS SPECIFICALLY NOTED) EXTRUDED POLYSTYRENE, OWENS CORNING "FOAMULAR" OR EQUAL, COMPLIANT WITH ASTM C578 TYPE IV AND ASTM E84.

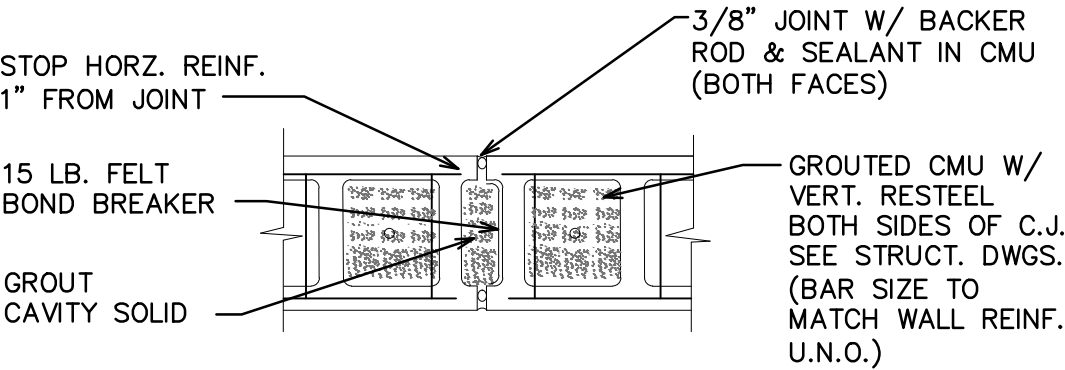
RESTROOM SIGNAGE:
PROVIDE EXTERIOR GRADE, PAINTED METAL SIGNAGE AT EACH TOILET ROOM DOOR TO MEET ACCESSIBILITY REQUIREMENTS OF MICHIGAN BUILDING CODE AND ANSI ICC A117.1. MOUNT ON WALL ADJACENT TO DOOR PER BARRIER FREE REQUIREMENTS.

DOOR SCHEDULE																	
DOOR NO.	DOOR LOCATION	INT	EXT	FINISH (PTD OR EX.)	LINTEL DETAIL	TYPE	DOOR SIZE (W X H)	HARDWARE (ADA COMPLIANT)					DOOR/ FLOOR STOP	MATERIAL		REMARKS	
								CARD READER	CLASS ROOM	PASSAGE	STORE ROOM	CLOSER		PUSH/ PULL	DOOR		FRAME
101	UNISEX RESTROOM		X	PTD		B	3'-0" X 7'-0"				O	O	O	O	STEEL	HM.	
102	MECHANICAL EQUIPMENT ROOM		X	PTD		B	3'-0" X 7'-0"				O	O	O	O	STEEL	HM.	
103	UNISEX RESTROOM		X	PTD		B	3'-0" X 7'-0"				O	O	O	O	STEEL	HM.	

NOTE:
1. ALL DOOR LITES SHALL BE TEMPERED GLASS.
2. ALL NEW H.M. DOOR FRAMES AT CMU WALLS SHALL BE MORTARED SOLID.
3. FIELD VERIFY ALL DIMENSIONS.

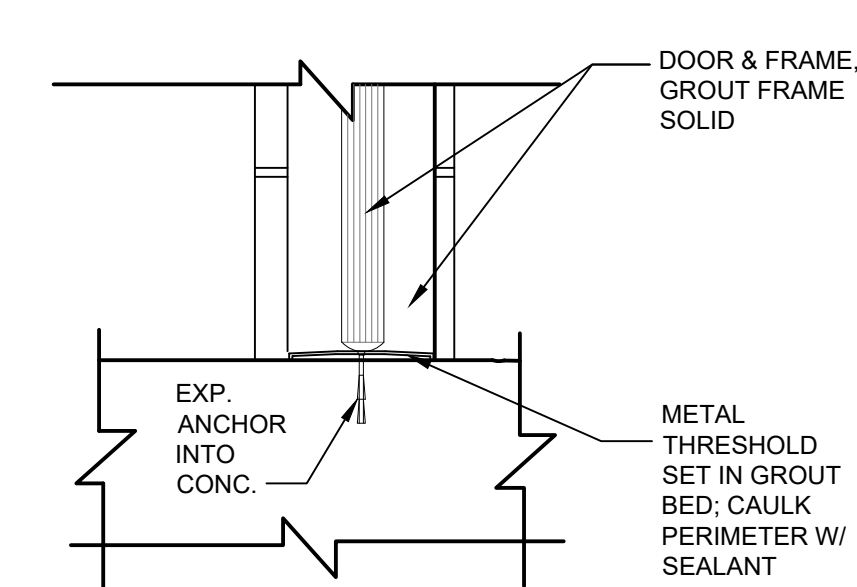


KEY:
WD: WOOD
MTL: METAL
H.M: HOLLOW METAL
PTD : PAINTED
EX : EXISTING
GL : GLASS

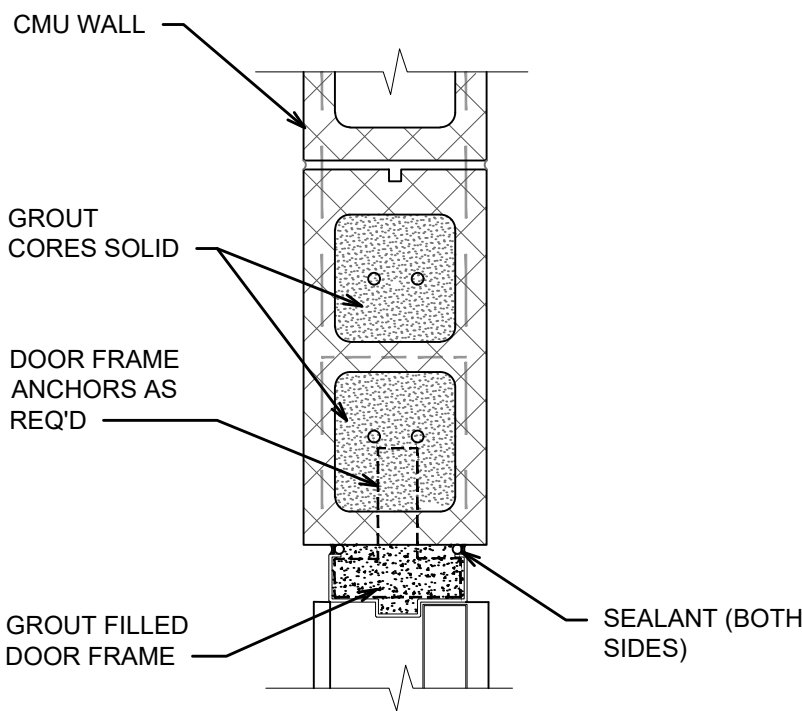


- NOTES:
1. MICHIGAN TYPE CONTROL JOINT REQUIRED; PRE-FAB C.J. W/ USE OF SASH STYLE BLOCK NOT PERMITTED WITHOUT STRUCTURAL ENGINEER APPROVAL.
2. SEE STRUCTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS IN ALL WALLS.
3. PROVIDE CONTROL JOINTS AT DOOR LINTELS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

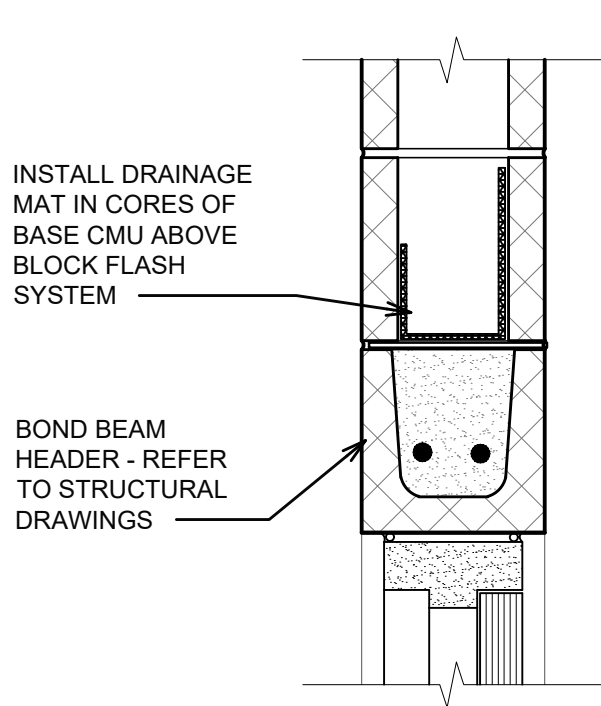
TYP. MICHIGAN MASONRY CONTROL JOINT AT SINGLE WYTHE MASONRY



S1 SILL DETAIL
SCALE: 1-1/2" = 1'-0"

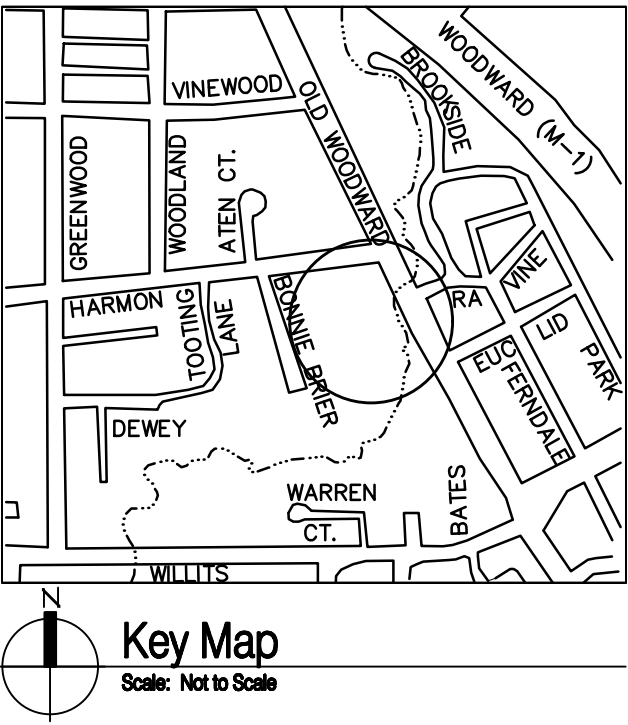


J1 JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



H1 HEAD DETAIL
SCALE: 1-1/2" = 1'-0"

BUILDING CODE DATA		
APPLICABLE CODES: 2015 MICHIGAN BUILDING CODE (MBC)		
2017 NATIONAL ELECTRIC CODE (NEC) WITH MICHIGAN AMENDMENTS		
2015 MICHIGAN MECHANICAL CODE 2018 MICHIGAN PLUMBING CODE ICC ANSI A117.1 – 2009 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN ASCE 24 – FLOOD RESISTANT DESIGN AND CONSTRUCTION		
CONSTRUCTION TYPE (TABLE 601 & 602): II		
TRAVEL DISTANCE (1016): DISTANCE TO AN EXIT ACCESS DOES NOT EXCEED 200 FEET FOR AREAS CONSTRUCTED UNDER THIS WORK.		
ACCESSIBILITY (1103): PROPOSED BUILDING IS REQUIRED TO BE ACCESSIBLE.		
OCCUPANCY CATEGORY (TABLE 1604.5): II		
FLOOR AREA (GROSS PER SECTION 1002): 187 G.S.F.		
OCCUPANT LOAD (TABLE 1004.1.1): RESTROOMS = 2 OCCUPANTS. EQUIPMENT ROOM: 43 SQ. FT./300 = 1 OCCUPANTS 3 OCCUPANTS		
ASCE 24 & IBC SECTION 1612.4 REQUIREMENTS: – DESIGN FLOOD ELEVATION – 737.0' – DRY FLOODPROOFING NOT REQUIRED PER ASCE 24 SECTION 2.6 – FLOOD WATER OPENINGS PROVIDED PER ASCE 24 SECTION 2.6.2.2		
ENERGY CODE REQUIREMENTS – SEMIHEATED (ASHRAE 90.1):		
ATTIC INSULATION	REQ'D R-30 MIN.	PROVIDED R-38 (MIN.)
DOORS	U-0.7 MAX.	U-0.45
SLAB	R-10 MIN.	R-11.4
MASS WALLS	5.7 C.I. MIN.	R-9*
*PER EX. 5.5.3.2, FILL UNGROUTED CORES W/ MAT'L HAVING MAX. THERMAL CONDUCTIVITY OF 0.44 BTU-IN/H--FT2-F		



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Project:
Booth Park
Plaza & Trail Improvements
Birmingham, Michigan

Sheet:
ARCHITECTURAL NOTES, SCHEDULES,
DETAILS

Job Number: B22-241/20240478
Drawn: QR
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Scale: AS NOTED

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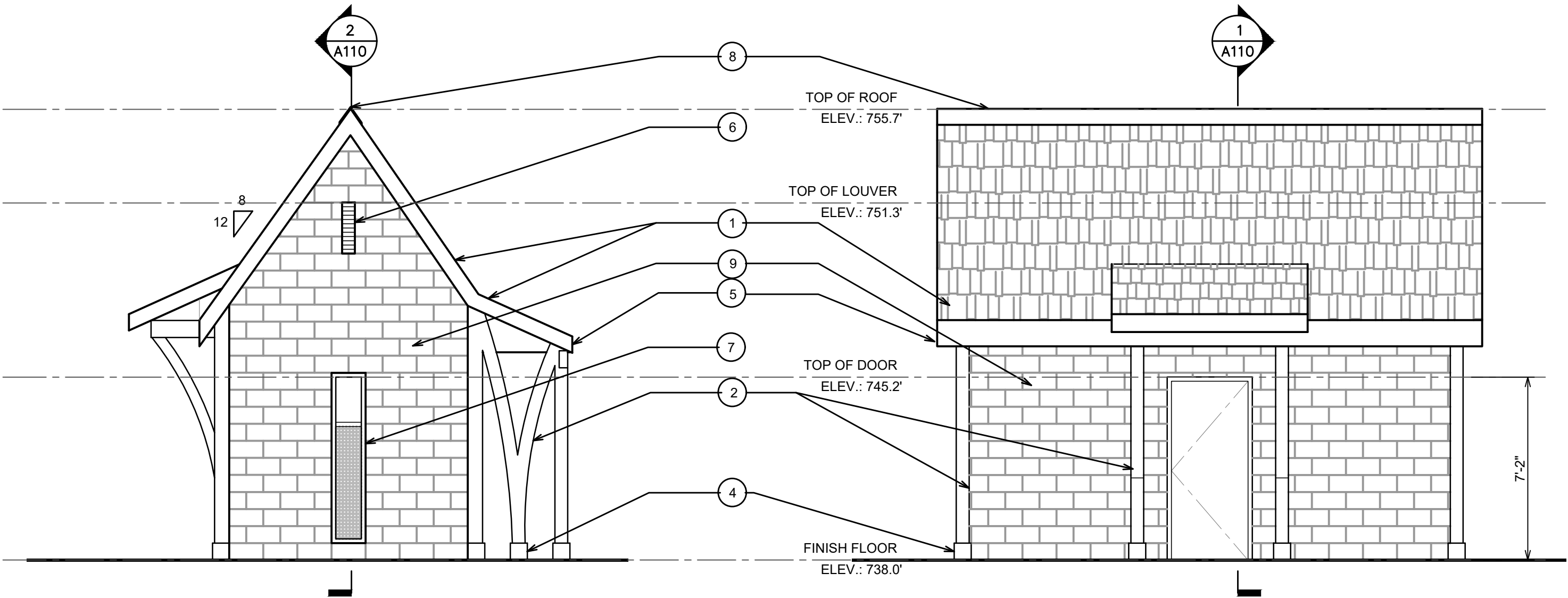
PREFABRICATED BUILDING EXAMPLES

ELEVATION NOTES	
①	COMPOSITE ROOF SHINGLE
②	SOLID CEDAR POST BRACING
③	WOOD GRAIN FINISH OVER STEEL DOOR AND FRAME
④	8" BASE TRIM, FINISH TO MATCH POSTS
⑤	PAINTED FASCIA BOARD
⑥	PRE-FIN. LOUVER
⑦	PRE-FIN FIXED WINDOW AND FRAME, PROVIDE VENTILATION SCREENING AT BASE
⑧	CONTINUOUS ROOF VENT
⑨	SPLIT FACE CMU BRICK
⑩	2x4 PRE-TREATED VERTICAL WOOD PLANKS, FINISH TO MATCH POSTS.
⑪	DRINKING FOUNTAIN AND BOTTLE FILLER

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

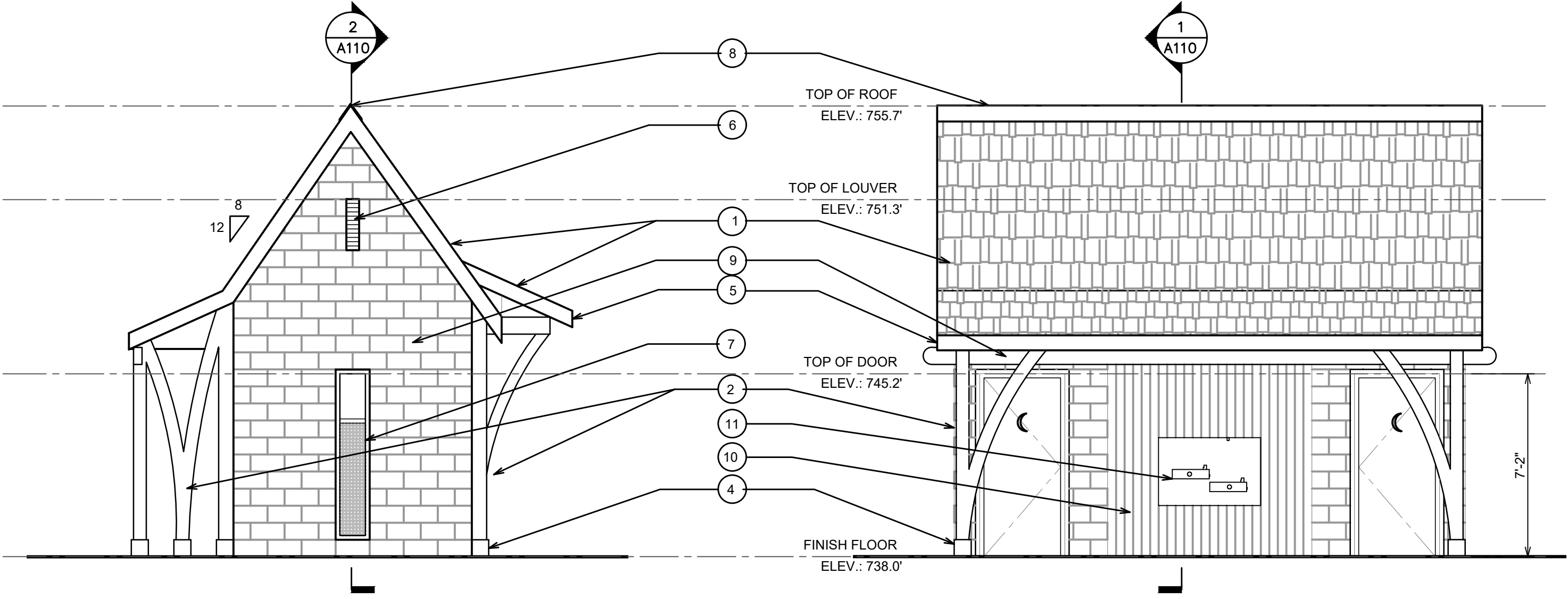


FINISH MATERIALS



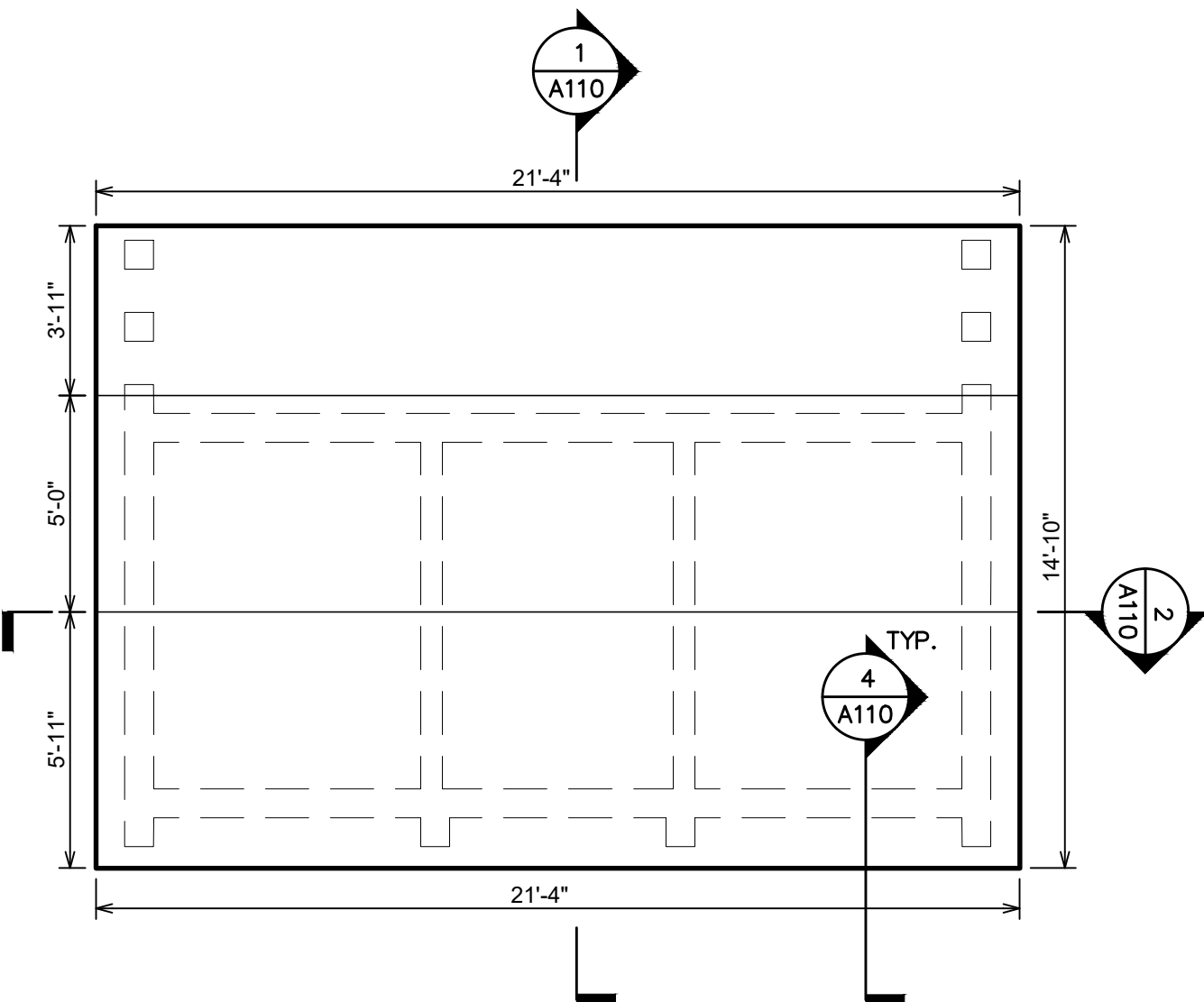
WEST ELEVATION

NORTH ELEVATION

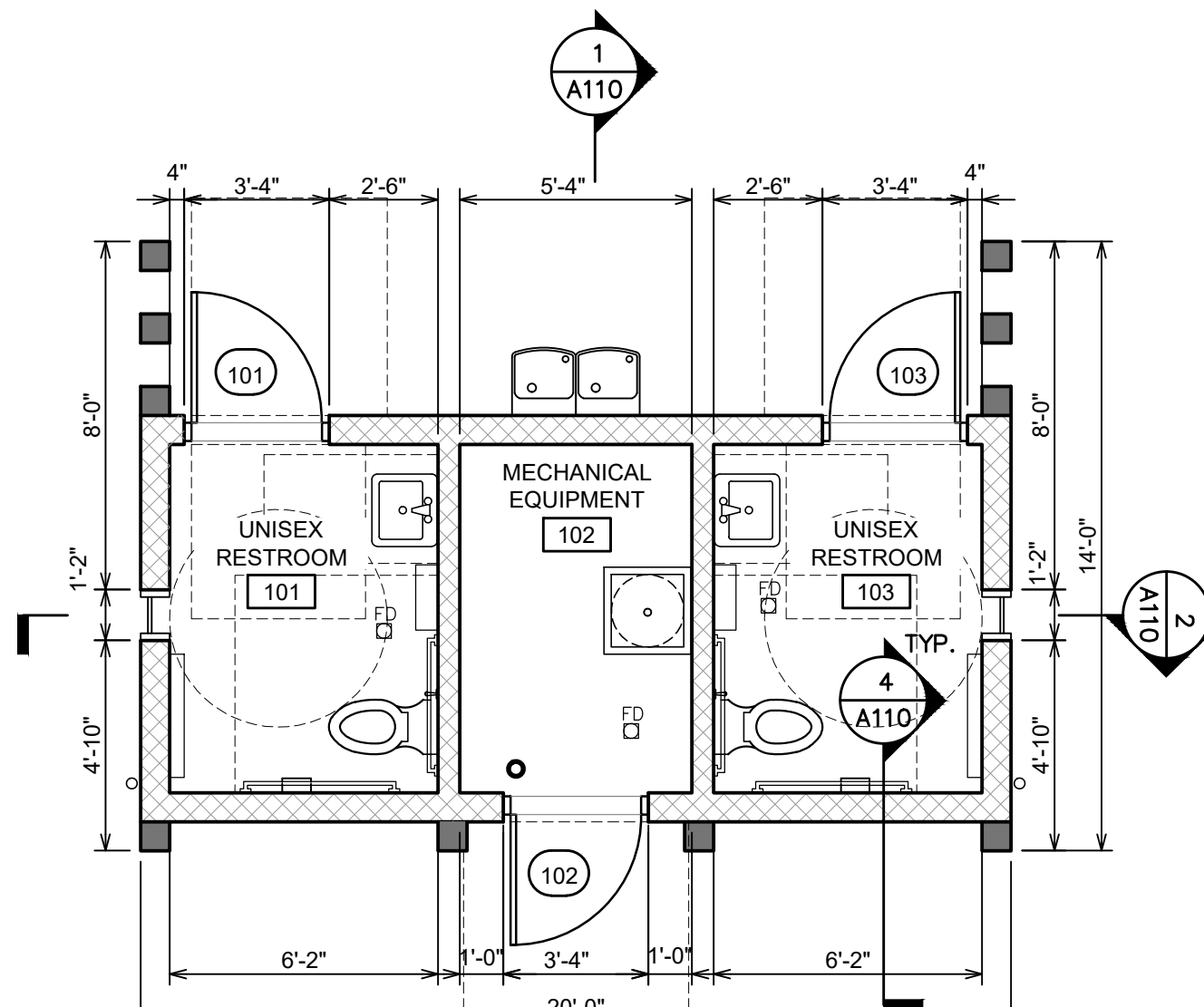


EAST ELEVATION

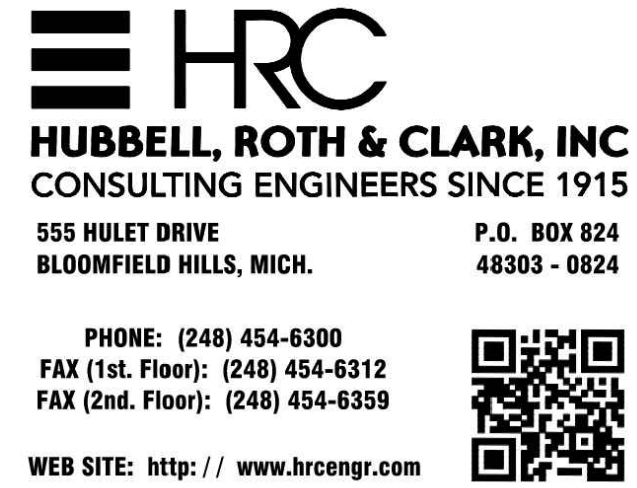
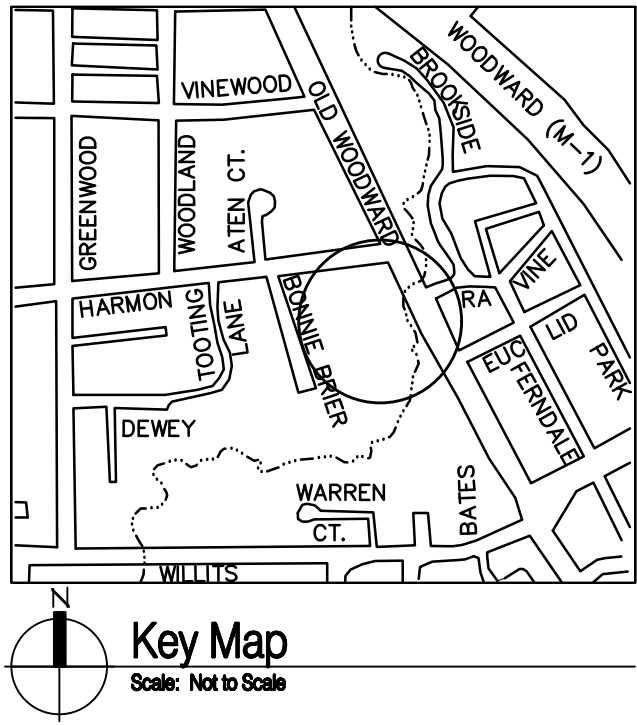
SOUTH ELEVATION



BOOTH PARK RESTROOM
ROOF PLAN



BOOTH PARK RESTROOM
FLOOR PLAN



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FLOOR PLANS AND ELEVATIONS

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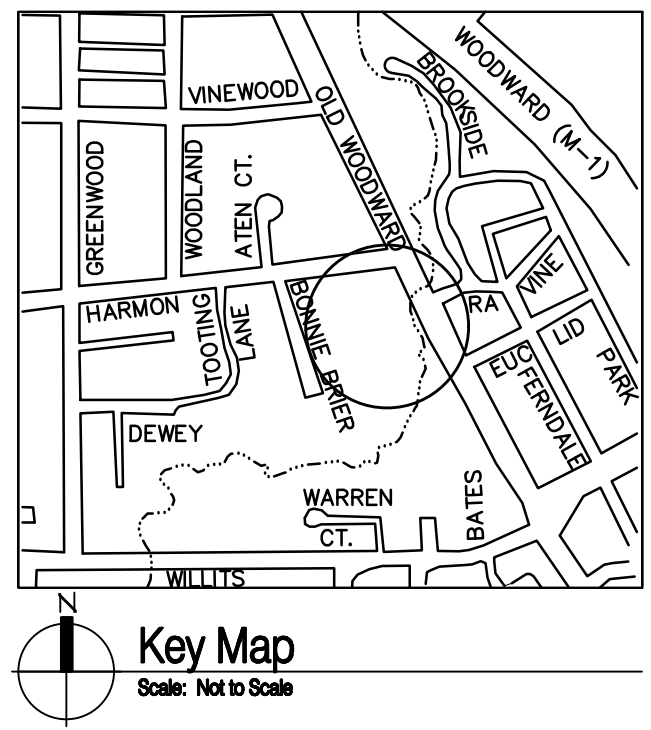
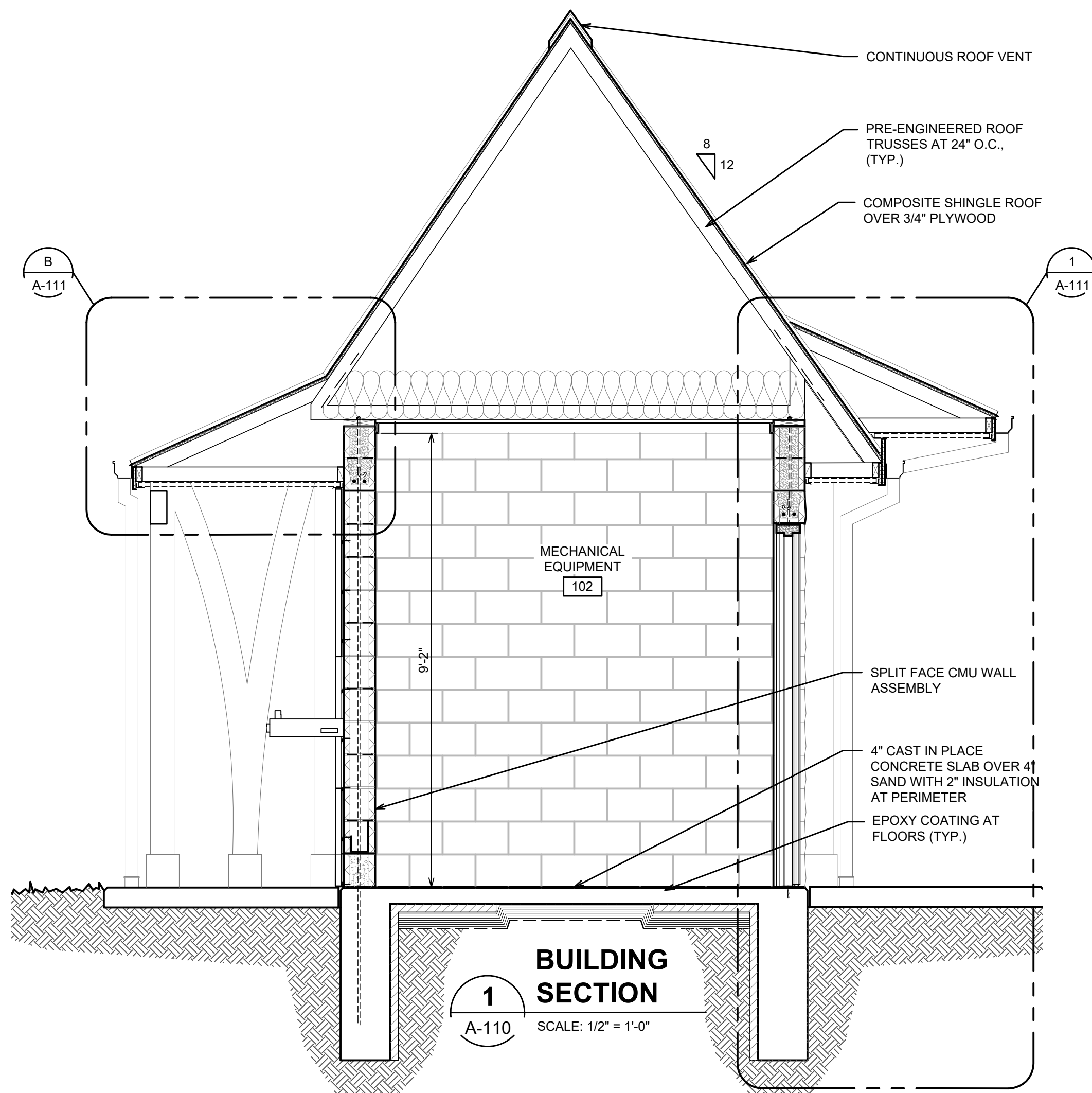
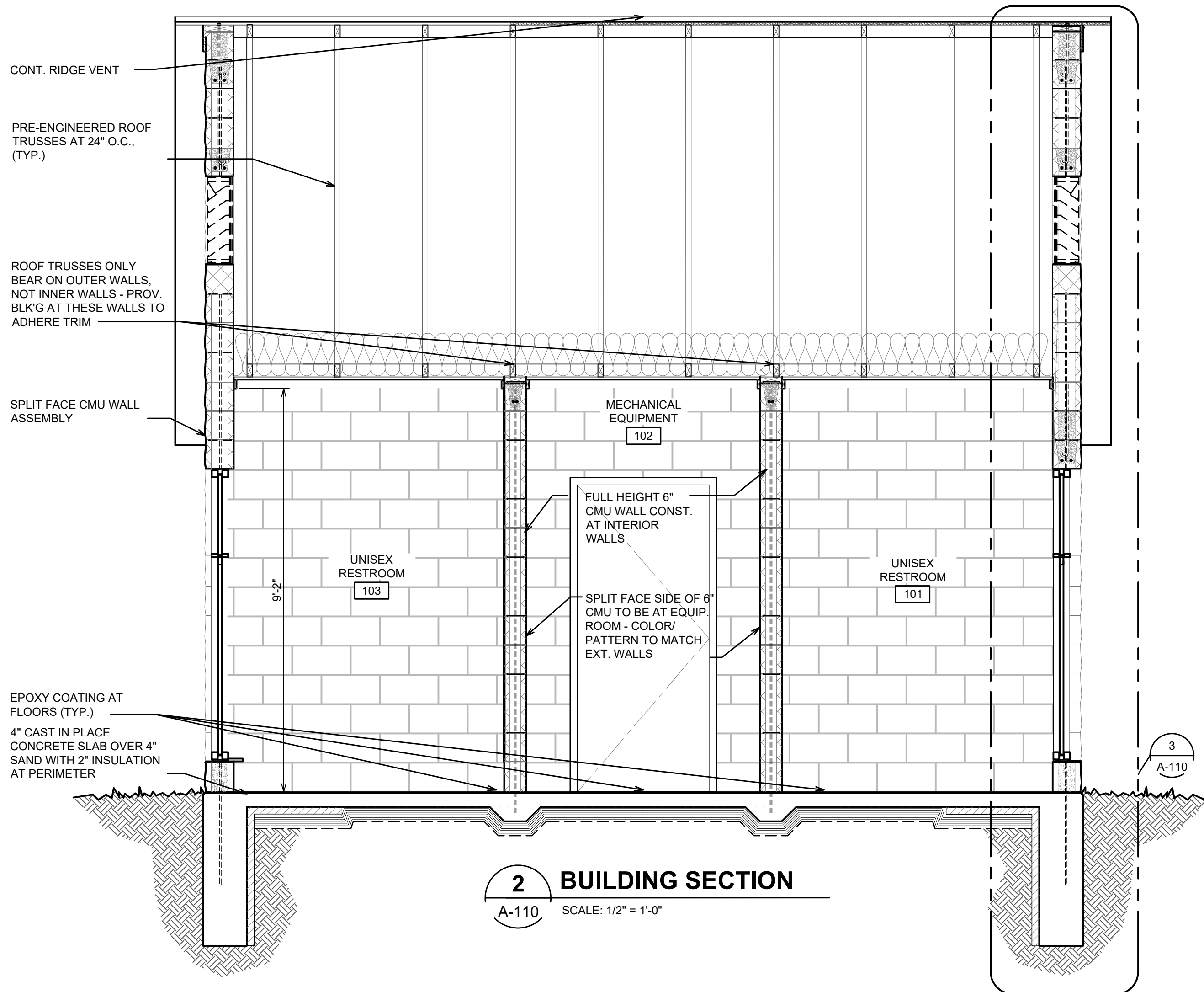
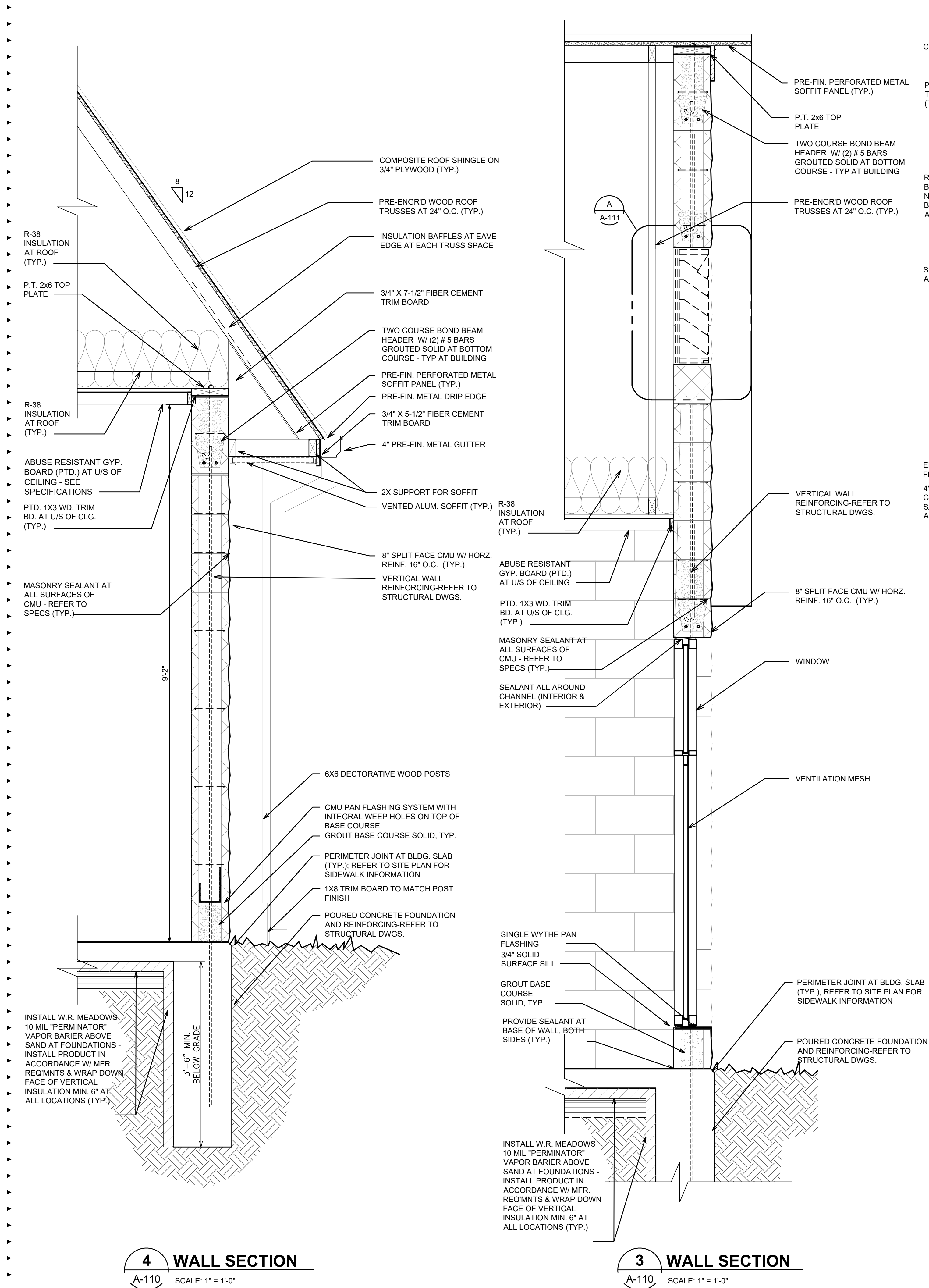
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A101

1/4" = 1'-0" 0 1 2 4 8



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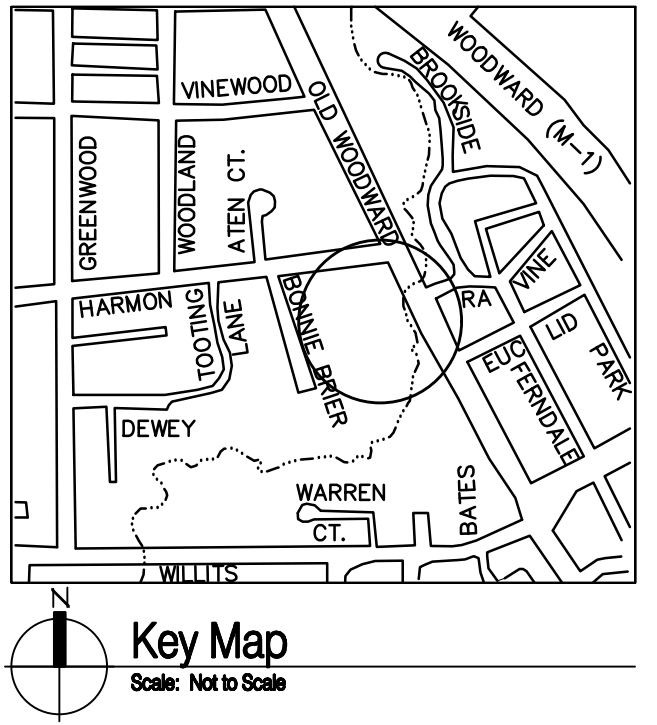
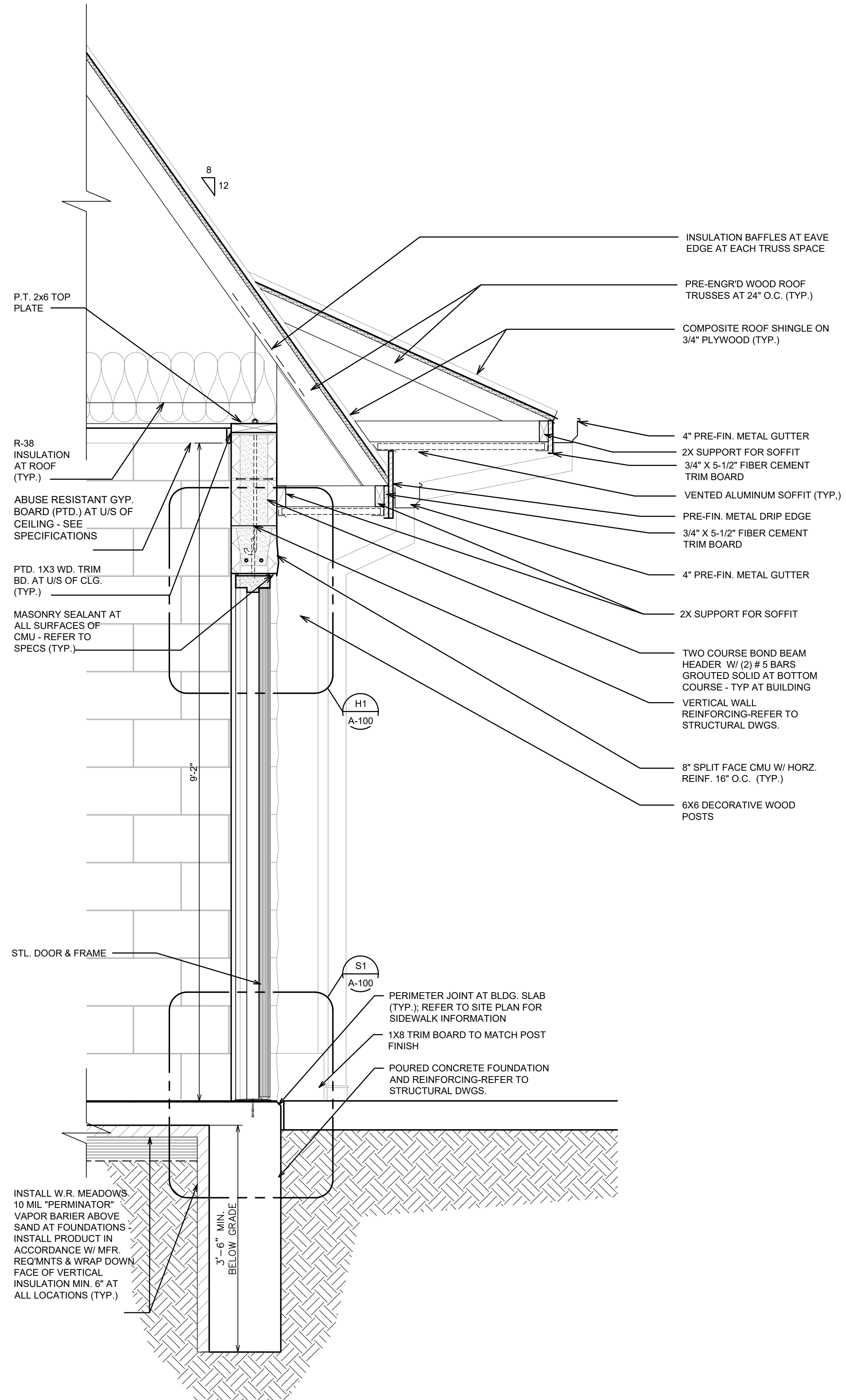
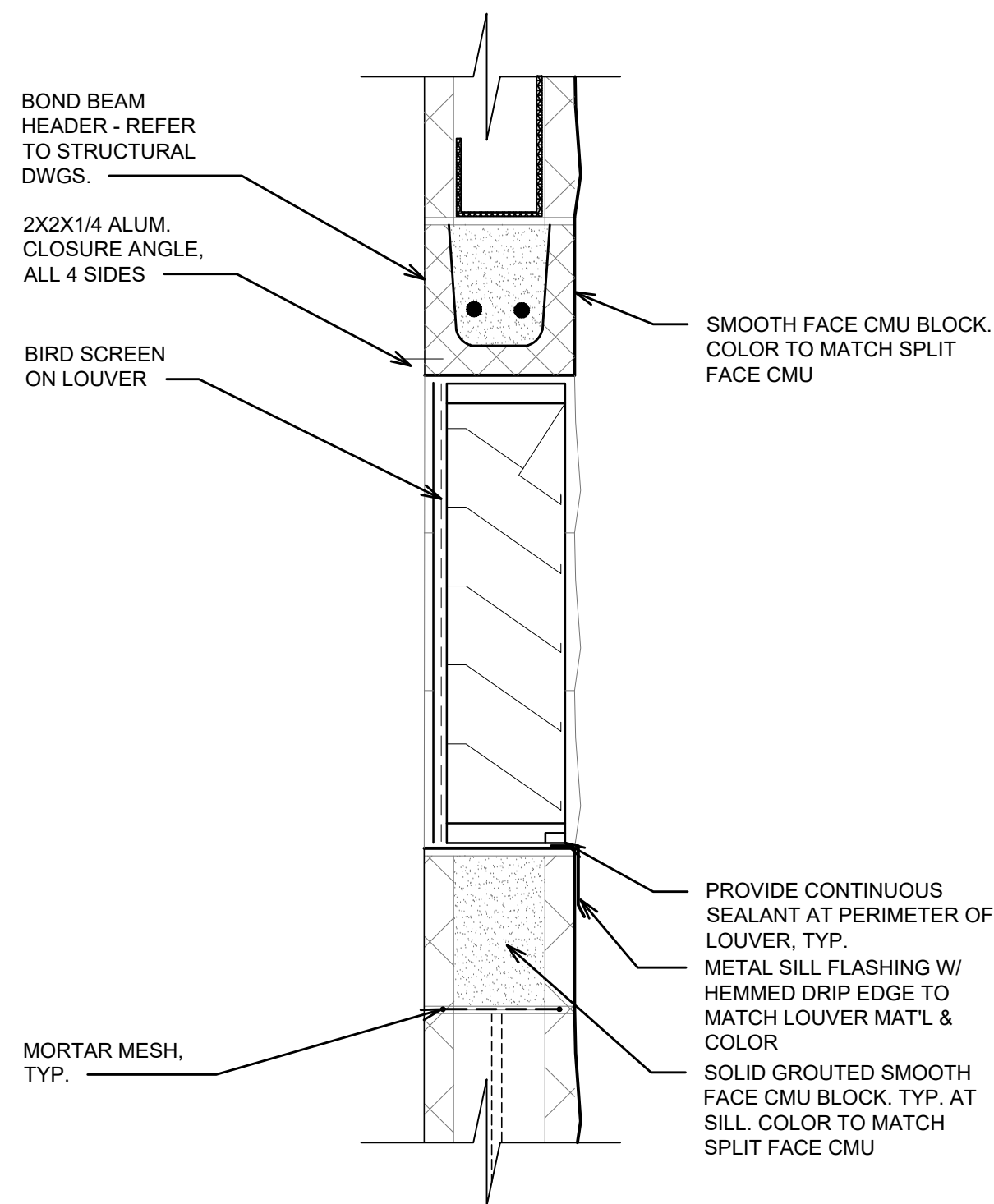
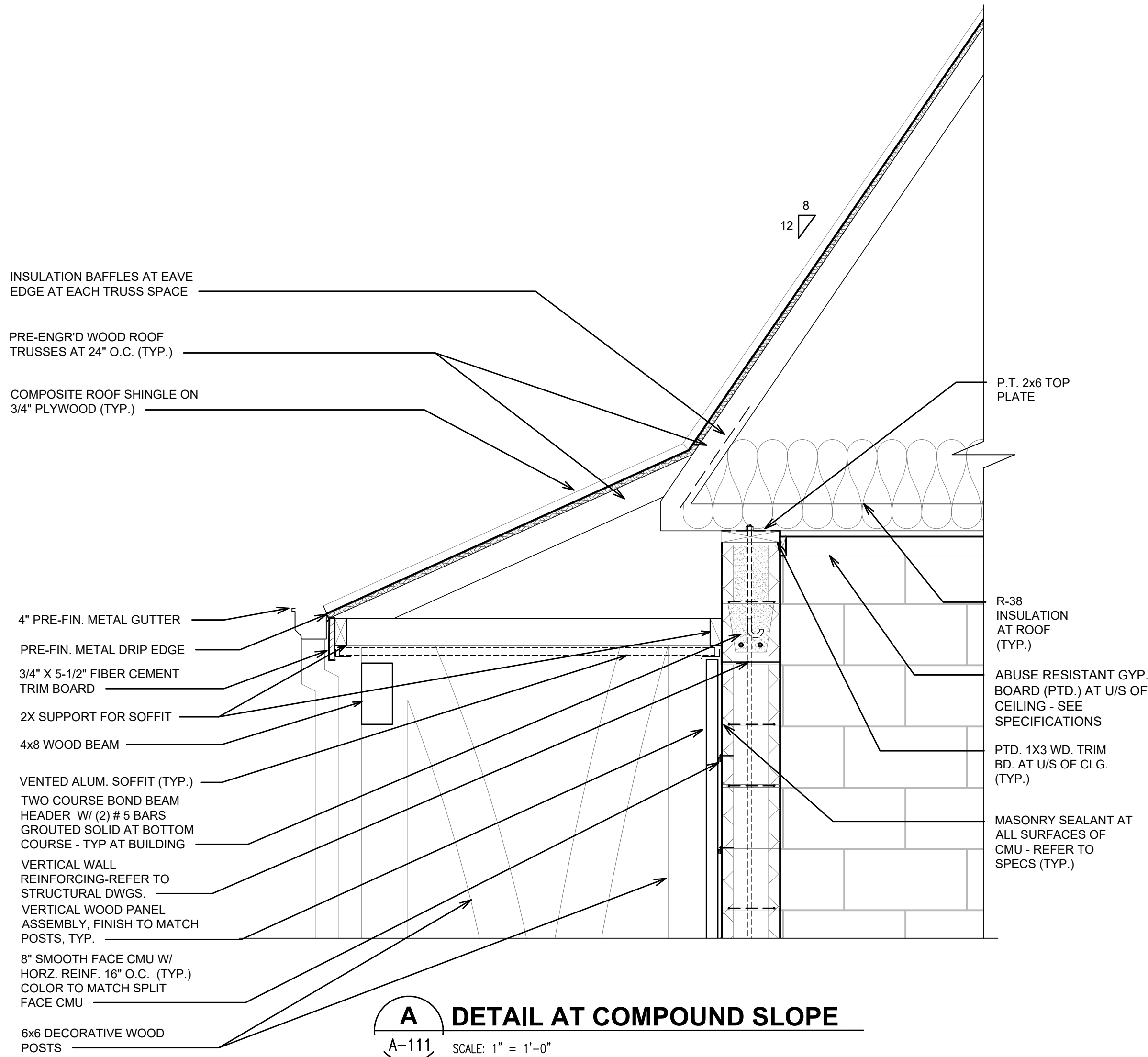
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SECTIONS AND DETAILS

Job Number: B22-241/20240478
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Sheet:
WALL SECTIONS AND DETAILS

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August 6, 2024

Booth Park

Birmingham, Michigan

Park Preliminary Budget Estimate - Working Draft

<u>General Conditions</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Mobilization			Lump Sum \$	30,000.00
Insurance, Permits, and Bonds (8.5%)			Lump Sum \$	65,700.00
Layout and Staking			Lump Sum \$	10,000.00
General Conditions (5%)			Lump Sum \$	38,700.00
General Conditions Sub-Total				\$ 144,400.00

<u>Site Preparation & Removal</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Soil Erosion & Sedimentation			Lump Sum \$	5,000.00
Site Preparation & Grading	4,800	sy.	\$ 3.00	\$ 14,400.00
Tree Removals			Lump Sum \$	2,000.00
Curb and Concrete Pavement Removal	330	sy.	\$ 10.00	\$ 3,300.00
Site Preparation & Removal Sub-Total				\$ 24,700.00

<u>Trail Entry</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Stone Column, 7 1/2' ht.	1	ea.	\$ 15,000.00	\$ 15,000.00
Stone Column, 5' ht.	1	ea.	\$ 12,000.00	\$ 12,000.00
Special Pavement	80	sf.	\$ 40.00	\$ 3,200.00
Trail Entry Sub-Total				\$ 30,200.00

<u>Plaza and Trail Improvements</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Asphalt Pavement Repair	25	sy	\$ 90.00	\$ 2,250.00
Concrete Paving, 6" depth	5,510 *	sf.	\$ 10.00	\$ 55,100.00
Concrete Paving, 4" depth	1,900	sf.	\$ 7.00	\$ 13,300.00
Concrete Seatwall with Wood Slat Seating	83	lf.	\$ 500.00	\$ 41,500.00
Concrete Seatwall without Wood Slat Seating	70	lf.	\$ 200.00	\$ 14,000.00
Permeable Pavers in Main Plaza	840	sf.	\$ 40.00	\$ 33,600.00
Precast Pavers in Secondary Plaza	600	sf.	\$ 30.00	\$ 18,000.00
Park Entrance Sign	1	ea.	\$ 5,000.00	\$ 5,000.00
Curb and Gutter and Asphalt Repair	170	lf.	\$ 55.00	\$ 9,350.00
Crushed Stone Trail	3,000	sf.	\$ 3.50	\$ 10,500.00
Benches	2	ea.	\$ 3,000.00	\$ 6,000.00
Planter Curb	170	lf.	\$ 35.00	\$ 5,950.00
Bollards	6	ea.	\$ 1,000.00	\$ 6,000.00
Plaza and Trail Improvements Sub-Total				\$ 218,300.00

* deduct \$20,000 if omit new walk replacing (4) on street parking spaces

<u>Restroom Building</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Basic Pre-Fabricated Restroom Building			Allowance	\$ 139,500.00
Plumbing & Fixtures (W&WW)			Allowance	\$ 14,500.00
Electric & Lighting			Allowance	\$ 14,500.00
HVAC			Allowance	\$ 20,000.00
Drinking Fountain at Building	1	each	\$ 8,000.00	\$ 8,000.00
Water Service Connection at Building			Lump Sum	\$ 2,000.00
Sanitary Service Connection at Building			Lump Sum	\$ 3,500.00
Electric Line and Connections (New Service for Restrooms)	150	lf	\$ 50.00	\$ 7,500.00

Restroom Building Sub-Total \$ 209,500.00

<u>Landscape & Irrigation</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Shade Trees (3" cal.)	29	ea.	\$ 700.00	\$ 20,300.00
Demonstration Planting Area	2,950	sf.	\$ 2.50	\$ 7,375.00
Planting Beds	9,080	sf.	\$ 15.00	\$ 136,200.00
Topsoil for Lawn (3" depth)	70	cy	\$ 45.00	\$ 3,150.00
Sodded Lawn	810	sy.	\$ 5.00	\$ 4,050.00
Repair Irrigation System			Lump Sum	\$ 10,000.00
Stepping Stones	23	ea.	\$ 50.00	\$ 1,150.00

Landscape & Irrigation Sub-Total \$ 182,225.00

<u>Lighting/Electrical Service</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Outdoor Rated Duplex Outlets	6	ea.	\$ 300.00	\$ 1,800.00
Security Lighting at Restrooms and Plaza			Lump Sum	\$ 20,000.00
Vendor Electrical Service			Lump Sum	\$ 2,500.00
Conduit for Future Charging Stations			Lump Sum	\$ 7,000.00

Lighting/Electrical Service Sub-Total \$ 31,300.00

<u>Storm Drainage Features</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Storm Sewer, PVC, 10 inch	70	lf	\$ 150.00	\$ 10,500.00
Manuf St Water Treatment Device	1	each	\$ 35,000.00	\$ 35,000.00
Underdrain, Perforated, 6 inch	270	lf	\$ 60.00	\$ 16,200.00
Drainage Structure, 4 ft dia with 2 ft sump	1	each	\$ 5,000.00	\$ 5,000.00
Drainage Structure, 2 ft dia with 1 ft sump	1	each	\$ 3,500.00	\$ 3,500.00

Storm Drainage Features Sub-Total \$ 70,200.00

<u>Water & Sewer Utilities</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Water Service, 1.5 inch, Type K Copper	60	lf	\$ 75.00	\$ 4,500.00

Sewer Service, 6 inch PVC	70	lf	\$	150.00	\$	10,500.00
Water System Features Sub-Total					\$	15,000.00
Sub-Total					\$	925,825.00
Contingency 15%					\$	138,873.75
FINAL TOTAL					\$	1,064,698.75

<u>Overlook Area at Raingarden North of River</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Deck Overlook	700	sf	\$	70.00	\$ 49,000.00
Boardwalk Railing	55	lf	\$	350.00	\$ 19,250.00
Seating	25	lf	\$	500.00	\$ 12,500.00
Permeable Pavement, 18" depth stone base	820	sf.	\$	35.00	\$ 28,700.00
Overlook Area/ Rain Gardens Sub-Total					\$ 109,450.00

<u>Restroom Options</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
<u>(add on costs to basic pre-fab unit)</u>					
Customized Pre-Fabricated Building	1	ea.	Lump Sum	\$	60,000.00
Built-on-Site Building "Bespoke" Design	1	ea.	Lump Sum	\$	60,000.00

<u>Site Furnishings/Amenities</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Benches	8	ea.	\$	3,000.00	\$ 24,000.00
Trash Receptacles	2	ea.	\$	2,000.00	\$ 4,000.00
Set of Table and 4 Chairs	8	ea.	\$	2,500.00	\$ 20,000.00
Umbrella, 10' diameter	5	ea.	\$	2,000.00	\$ 10,000.00
Dog Waste Station	2	ea.	\$	600.00	\$ 1,200.00
Bike Racks	8	ea.	\$	300.00	\$ 2,400.00
Site Furnishings/Amenities Sub-Total					\$ 61,600.00

<u>Donor Walkway and Seating Area</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Exposed Aggregate Concrete Walkway	165	sf.	\$	20.00	\$ 3,300.00
Donor Butterfly Bench	2	ea.	\$	6,000.00	\$ 12,000.00
Fashion Statement Inscriptions & Plaque			Lump Sum	\$	2,500.00
Butterfly Plantings	400	sf.	\$	9.00	\$ 3,600.00
Irrigation			Lump Sum	\$	500.00
Precast Segmental Unit Retaining Wall	35	lf.	\$	80.00	\$ 2,800.00
Donor Walkway and Seating Area Sub-Total					\$ 24,700.00

<u>Additional Signage</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>		<u>Total</u>
Historical Marker covering Park and City History	1	ea.	\$	1,500.00	\$ 1,500.00
Information on Sustainability and Nature	1	ea.	\$	1,500.00	\$ 1,500.00

Rouge River Trail Wayfinding Sign at Trail Gateway	1	ea.	\$ 2,000.00	\$ 2,000.00
Signs Along Trail with Information on Plantings, Wildlife and the River	6	ea.	\$ 800.00	\$ 4,800.00
Additional Signage Sub-Total				\$ 9,800.00

Future Amenities/Landscape/Lighting

Picnic Tables, Large Communal	1	ea.	\$ 17,000.00	\$ 17,000.00
Hammocks with Posts Installed	2	ea.	\$ 3,500.00	\$ 7,000.00
Outdoor Gym Equipment, Installed			Allowance	\$ 40,000.00
Unique Swings, Installed			Allowance	\$ 14,000.00
28" Lounge Chairs for Lawn Waves, Installed in Footings	8	ea.	\$ 6,800.00	\$ 54,400.00
Trees Next to Playground & Waves	16	ea.	\$ 700.00	\$ 11,200.00
Uplighting for Significant features (Art, Sculpture, Etc.)			Lump Sum	\$ 9,000.00
Future Amenities Sub-Total				\$ 152,600.00

County Easement:

	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Grass Stabilizer Grid to Provide Vehicular Access to Utility Structures	520	sy.	\$ 25.00	\$ 13,000.00

Scenic River Access Trail

	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Select Clearing & Grubbing			Lump Sum	\$ 7,500.00
Pathway Grading			Lump Sum	\$ 12,500.00
Aggregate Base Course	50	ton	\$ 45.00	\$ 2,250.00
Crushed Stone Trail Surface	1,100	sf.	\$ 3.50	\$ 3,850.00
Ledgestone Landing	32	sf.	\$ 400.00	\$ 12,800.00
Scenic River Access Trail Sub-Total				\$ 38,900.00



Carrie Laird <claird@bhamgov.org>

Booth Park Entry Plaza and Trail Improvements

Nicholas Dupuis <ndupuis@bhamgov.org>

Wed, May 15, 2024 at 10:34 AM

To: Carrie Laird <claird@bhamgov.org>

Cc: Scott Zielinski <szielinski@bhamgov.org>, Leah Blizinski <lblizinski@bhamgov.org>

Carrie,

Please see attached. Keep up the good work!



Concept Plan Comments to Carrie Laird FULL.pdf

On Thu, May 9, 2024 at 2:38 PM Nicholas Dupuis <ndupuis@bhamgov.org> wrote:

Hey Carrie!

At first glance, this is looking beautiful. It is clear that your team and the consultant have paid a LOT of attention to feedback and general City happenings. I will provide more detailed comments when I have them, but I wanted to know if you would consider the Planning Board when making your rounds as well, since there are a lot of recommendations in our master plans about this area.

On Thu, May 9, 2024 at 10:57 AM Carrie Laird <Claird@bhamgov.org> wrote:

Hi everyone!

We would like to share a preliminary park design and concepts with you, to garner feedback and also route to your appropriate boards as you see fit. We are planning to visit the Wayfinding, Multimodal, BSD Maint Committee upcoming, likely June.

Additionally, we will have a survey available on Engage by the end of this week through May 31st. I've attached the presentation materials as well as the park plan separately. We are in the ideas stage, further development designs are forthcoming later this summer.

Let me know if you have any questions! Thank you!



2024-05-01_B22-241_Booth Park SD Pkg.pdf

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Carrie A. Laird
Parks & Recreation Manager
851 S. Eton
Birmingham, MI 48009
248-530-1714

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--

Nicholas J. Dupuis

Planning Director



Email: ndupuis@bhamgov.org

Office: 248-530-1856

Social: [Linkedin](#)

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--

Nicholas J. Dupuis

Planning Director



Email: ndupuis@bhamgov.org

Office: 248-530-1856

Social: [Linkedin](#)

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Carrie Laird <claird@bhamgov.org>

Booth Park Entry Plaza and Trail Improvements

Scott Grewe <Sgrewe@bhamgov.org>
 To: Scott Zielinski <szielinski@bhamgov.org>
 Cc: Carrie Laird <claird@bhamgov.org>

Thu, May 16, 2024 at 4:50 PM

Should be fairly simple, since there is already one there they are already planning for that one to connect to our network.

Scott A. Grewe
 Chief of Police
 Birmingham Police Department
 151 Martin St.
 Birmingham, MI. 48009
 Dispatch: (248) 644-3405
 Office: (248) 530-1867



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On Thu, May 16, 2024 at 4:10 PM Scott Zielinski <szielinski@bhamgov.org> wrote:

If we are able to provide power, how easy would it be to tie cameras into your network?

On Thu, May 9, 2024 at 4:16 PM Carrie Laird <Claird@bhamgov.org> wrote:

Feedback from our Police Chief

----- Forwarded message -----

From: **Scott Grewe** <Sgrewe@bhamgov.org>
 Date: Thu, May 9, 2024, 13:20
 Subject: Re: Booth Park Entry Plaza and Trail Improvements
 To: Carrie Laird <Claird@bhamgov.org>

Carrie,

I have some concerns over our ability to see into the park. This is an area that is a teen hangout on the evenings, particular on the weekends. Due to the play structure, it can already be difficult but with the additional trees and restrooms and other features it will be impossible to check the park without walking through it. Currently we only have one camera at this location but I would request possibly as many as two additional cameras to provide the ability to check the park. These locations would need power supply. We can look at potential locations, but maybe your designers can add some insight in terms of future site lines once constructed and the ability to construct with a power supply in place.

On Thu, May 9, 2024 at 10:57 AM Carrie Laird <Claird@bhamgov.org> wrote:

Hi everyone!

We would like to share a preliminary park design and concepts with you, to garner feedback and also route to your appropriate boards as you see fit. We are planning to visit the Wayfinding, Multimodal, BSD Maint Committee upcoming, likely June.

Additionally, we will have a survey available on Engage by the end of this week through May 31st. I've attached the presentation materials as well as the park plan separately. We are in the ideas stage, further development designs are forthcoming later this summer.

Let me know if you have any questions! Thank you!



2024-05-01_B22-241_Booth Park SD Pkg.pdf

--

Carrie A. Laird
Parks & Recreation Manager
851 S. Eton
Birmingham, MI 48009
248-530-1714

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--

Scott A. Grewe
Chief of Police
Birmingham Police Department
151 Martin St.
Birmingham, MI. 48009
Dispatch: (248) 644-3405
Office: (248) 530-1867



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Scott D. Zielinski, PE
DPS Director
City of Birmingham
Tel: 248-530-1702



Carrie Laird <claird@bhamgov.org>

Booth Park Entry Plaza and Trail Improvements

Leslie Pielack <LPielack@bhamgov.org>

Mon, May 20, 2024 at 4:43 PM

To: Carrie Laird <Claird@bhamgov.org>

Hi Carrie,

Just got my first chance to look over the preliminary design. **There is a lot I like about it!**

I do have some comments/questions I would like to highlight:

- **I think the hammock idea is great.** I personally like the rope-style because it is simpler, easier to remove or replace, and visually has a lower profile in the natural surroundings.
- **I also really like the rain garden/bioswale design.** The walking bridges help reinforce that it is also a water-related feature, like a dry river bed. But what is the maintenance on that, and will it ever become self-sustaining or always need regular maintenance?
- **Splash pad...**Is it just a random idea, or is it planned for the playground area? I'm not a fan of splash pads...they seem costly and not used enough to be worth the effort, running water lines, etc. if it is inevitable, it seems like it could have a smaller footprint, possibly integrate with the garden areas so the water drains off and has a secondary purpose. Also, I think splash pads are begging for shade for little kids and/or their adults to get relief from hot sun. If not natural shade, maybe a pergola or structure of some kind, or even an awning arrangement. (A small fountain or splash pool would potentially have other uses/purposes than just a splash pad, but I know they have maintenance issues, too.)
- **The kiosk concept is really cool.** I do like the visual but I would suggest a timer/dimmer function and an artistic design that can be adjusted for events, time of day/time of year, etc. I'm guessing there is more in the works about this and it would be a very spectacular anchor for the park, but just wondered about the ability to make adjustments to any lighting.
- **Restroom design-solar?** My favorite concept for the restroom building is something simpler, like the board and batten frame buildings (I like most of the ones sketched), rather than the more elaborate mixed materials one with the stone facing at the foundation...and I definitely dislike the Tudor style for this setting. The frame designs all seem 'modern' and can be made more sustainable and can be less costly to construct.(I also DO love the half moon symbols on the doors!) Have you already looked at solar concepts? Since it will be mostly for day use, I would think solar energy could not only 1) help light it and heat the water for handwashing, but 2) could be an educational opportunity for how sustainable energy works. I have been to a number of state and national parks that use them and they are good for awareness and reinforce the idea that running water, electricity, etc. uses energy. Just a personal reaction, here.
- **Interpretive signage, new canopy trees, etc.** I vote for interpretive signage that uses QR codes, which allow flexibility for whatever the content is...environmental/native plants and animals, sustainability, and naturally, I think a little history would also be cool 😊. QR symbols can be changed out if needs change over time and are much less costly to install than permanent signs. As for canopy trees, the area is not very big, but what about a grouping of mixed native trees and underplantings with interpretive QR codes? Possibly the foundation of an arboretum?

These comments are just me, free associating, based on my personal and professional point of view. Hope they are of use in some way.

On Thu, May 9, 2024 at 10:57 AM Carrie Laird <Claird@bhamgov.org> wrote:

[Quoted text hidden]

[Quoted text hidden]

--

Leslie Pielack

*Director**Birmingham Museum*

248-530-1682



MEMORANDUM

Planning Division

DATE: May 15, 2024

TO: Carrie Laird, Parks & Recreation Manager
Scott Zielinski, Director of Public Services
Parks & Recreation Board Members

FROM: Nicholas Dupuis, Planning Director

SUBJECT: Booth Park Entry Plaza and Trail Improvements – Preliminary Park Design and Concepts Plan

I am pleased to have the opportunity to provide some feedback regarding the preliminary designs for the Booth Park Entry Plaza and Trail Improvement project dated May 7, 2024. As a general observation, the concept plans appear to be very well done. They are attractive, easy to understand, and provide me with a lot of confidence that the consultant team is really paying attention to all of the competing interests and agendas that all involve this property.

In February, I provided a detailed memorandum (attached) regarding the specific objectives of the Birmingham Plan 2040 as they relate to this project, which involved the park space as well as the Rouge River corridor. Fortunately, I believe that the concept plans address most, if not all of the recommendations related to the park space that I quoted from the 2040 Plan. The plans contain much more seating, café/vendor accommodations, restrooms, and the paved plaza that has been a goal of ours since the Downtown Birmingham 2016 Plan. At this time, I would only feel the need to encourage further the use of pervious paving materials, whether it is pavers or otherwise. In my opinion, this should absolutely be done in areas “1” and “4” which contain seating, but would be encouraged along what is now labeled as the 10’ wide concrete path. Perhaps small accent portions could be introduced with pervious pavers.

In regards to the 2040 Plan’s recommendations on the Rouge River corridor, which were numerous, much of this plan would aid in furthering objectives such as improving the ecosystem and providing better amenities. A lot of the recommendations related to the Rouge are admittedly a bit larger than this project alone, but every little bit helps.

Other than the 2040 Plan, I would like to provide other general feedback related to Planning and Sustainability:

- Every new or improved landscape bed as a part of this project, as well as future projects along this trail, should without exception be native plantings, and all new trees should be native species. In my opinion, this should be clearly stated in the “Note Key” in items such as 8, 15, 16, 23 and 24. This may already be the approach, but I believe that being explicit with our intentions will go a much longer way.
- The new bike racks, and any other new multi-modal infrastructure, should match the downtown standard that is currently in use.
- Wherever possible (and yes, it is possible), recycled or reclaimed materials should be used to build new items such as the restroom facility (if we take the custom route), lounge chairs, gateway columns, and even benches and picnic tables.
- The trail gateway signage and the acknowledgement to the recently approved Wayfinding and Signage Master Plan is well received. Any new sign design will need to go before the Wayfinding and Branding Committee, but my initial reaction is very positive.
- If it means anything coming from me, I think it would be a complete disservice to this beautiful park to install a bland, pre-fabricated restroom unit in such a prominent location. I find the custom designs to be much more interesting and appropriate in this setting. If the budget or other factors necessitate a pre-fabricated unit, I would reconsider the placement to a less visible area. I do see that there appears to be an attempt to hide or screen it with trees, which is very thoughtful, but I do not think it would be enough.
- There is currently a piece of public art located near the entrance that is not noted on this plan. I have been advised that the City has asked the artist to remove the piece, but it could be noted on this plan that the art is going away as to not confuse anyone. In addition, the Planning Department would be supportive of alternate displays of public art, the possible placement of such could be added to this plan to give direction to staff when considering future donations or loans.
- I do not see any lighting as a part of this plan, but if there becomes a need (even just small fixtures to illuminate signage), the fixtures should be solar powered. I would also encourage anything else that requires power to be solar powered, or at a minimum be constructed to be able to accommodate solar at a future date.

Thank you for considering my comments on behalf of the Planning Department, and please do not hesitate to reach out to me should any questions or requests for clarification arise.



MEMORANDUM

Planning Division

DATE: February 26, 2024

TO: Carrie Laird, Parks & Recreation Manager
Scott Zielinski, Director of Public Services
Parks & Recreation Board Members

FROM: Nicholas Dupuis, Planning Director

SUBJECT: Booth Park Entry Plaza and Trail Improvements & The Birmingham Plan 2040

To aid in the development of the Booth Park Entry Plaza and Trail Improvements, the Planning Division would like to provide a brief overview of the recommendations within the Birmingham Plan 2040 ("2040 Plan") that relate to the project both directly and indirectly and could affect the overall project. The Planning Division would expect that any consultant selected for the project will refer to and consider the 2040 Plan and the recommendations within.

Booth Park is heavily discussed in the 2040 Plan in Chapter 3 – Retain Neighborhood Quality and Chapter 4 – Support Mixed-Use Districts. These discussions result in several recommendations (some of which are redundant):

- Building a cafe or vendor accommodations in Booth Park as recommended in the 2016 Downtown Plan.
- Increase the amount of seating in Shain, Booth, and the City's pocket parks with benches.
- Expand café-style seating in Shain and Booth Parks and on all widened sidewalks.
- Update the Parks and Recreation Plan, including amenities and a cafe to Booth Park.
- Install ample benches in Booth Park.
- Install a small café and public restrooms in Booth Park or services for mobile vendors, along with movable tables and chairs.
- Create a paved plaza, ideally pervious, at the entrance to Booth Park with signage and seating.

In addition to Booth Park, the 2040 Plan focuses a lot of its attention on the Rouge River Corridor in which the trail system exists, particularly in Chapter 5 – Advance Sustainability Practices. The following recommendations relating to the Rouge River Corridor could also have a big impact on the project:

- Integrate the Birmingham Museum into the Rouge River trail and park system, including more connections and signage Downtown.
- Create a Sustainability and Climate Action Plan to include support for Rouge River Natural Area improvements.
- Develop and implement a trails and access master plan to improve the Rouge River trails and trail heads. The plan should consider:
 - o Installing pedestrian linkages to the park's surrounding neighborhoods and commercial districts, including to Quarton Road.
 - o Securing easements of additional key properties to expand the park area and improve its walkability, for complete ecological restoration, and universal accessibility.
 - o Installing an environmentally sensitive, hard-surfaced pathway for pedestrians and cyclists along the Rouge River.
 - o Expanding the extent of the trail system, crossing the river at more locations to access large portions of the natural area currently cut off.
 - o Installing bridges, ramps, and other enhancements to enable access by all ages and abilities.
 - o Installing other amenities such as bicycle racks, lighting, markers, seating, and signage at trail heads, and seating, markers, and interpretive features throughout the trail system.
- Develop and implement a restoration master plan to restore the Rouge River ecosystem to its natural and sustainable conditions. The plan should consider:
 - o Retaining environmental scientists to inventory and analyze the Rouge corridor's wildlife, ecology, natural systems, and pollution sources.
 - o Establishing a phased enhancement time frame to stabilize riverbanks, remove invasive species, reintroduce native ground covers, wildflowers, under-story, and canopy tree species.
 - o Identifying and mitigating potential pollution or chemical sources, including the existing Springdale snow storage dumping area.
- Work with area organizations and agencies to oversee, build support, and raise funding for the park's enhancements. Consider securing corporate or philanthropic funding in exchange for special recognition.
- Work with other area and regional organizations and communities to improve the quality of the Rouge River watershed.

In closing, the Planning Division would like to emphasize that these are recommendations, not demands, and that many of these issues would likely require further study before implementation could be considered. However, as major projects such as the Booth Park Entry Plaza and Trail Improvements come up, it is essential that we have the discussions and ensure that the health of the Rouge River Corridor will be protected and improved upon.

The Planning Division will remain open to conversation throughout the entire process and will endeavor to be a partner to the Department of Public Services and Parks and Recreation Board to ensure that the City provides users of the trails, and the ecosystem itself, a project that we can all be proud of.

Note Key

1. Entry plaza with special paving, seatwalls, movable furniture with umbrellas and art display
2. Restrooms
3. Bike racks and stroller parking
4. Open plaza with special paving, space for activities, coffee cart, food trucks and movable bistro seating to allow for vehicle access
5. Park signage
6. New driveway cut for vehicular access
7. Boardwalk with interpretive signage
8. Rain garden / bioswale (to capture runoff, includes educational signage and demonstration areas)
9. Entry to the existing playground
10. Benches
11. Lounge chairs on the existing lawn ridges
12. Temporary stage / movie screen location
13. Selectively clear vegetation and remove fencing to open view to river
14. Donor benches with customized walk and butterfly garden
15. Trail gateway customized column with signage and planting surround
16. Pollinator garden
17. 10' wide concrete walk
18. 8' wide trail with composed of limestone screenings
19. Hammocks
20. Picnic tables
21. Outdoor gym
22. Swings
23. Landscape beds
24. New canopy trees
25. Existing trees



Booth Park
Birmingham, Michigan

Preliminary Design
Landscape Plan
05.07.2024

**GRISSIM
METZ
ANDRIESE**
ASSOCIATES



PETERHANS, REA + ROMAN · LLC

Booth Park Entry Plaza & Trail Improvements

SURVEY RESPONSE REPORT

01 May 2024 - 30 May 2024

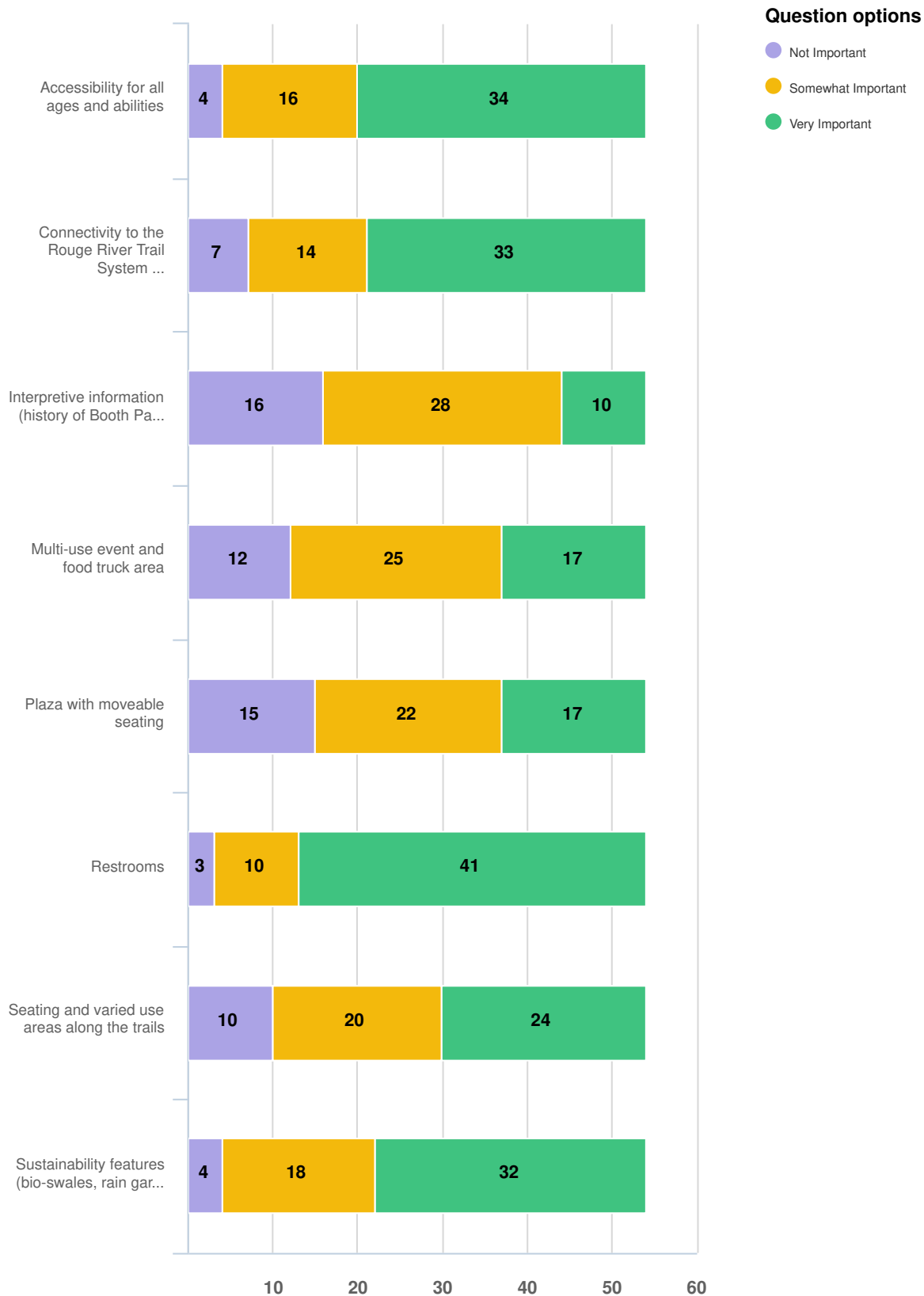
PROJECT NAME:

Booth Park Entry Plaza & Trail Improvements



SURVEY QUESTIONS

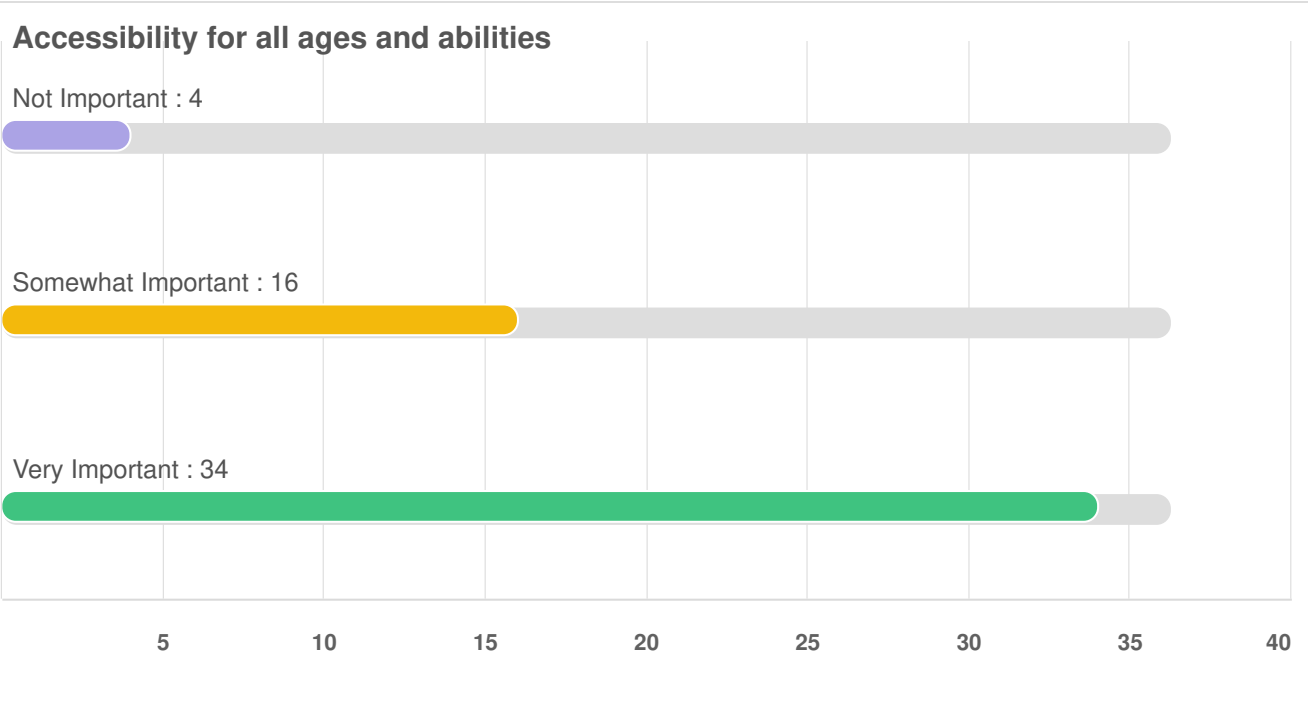
Q1 | The Park Plan has incorporated the following features. Please let us know how important they are to you.



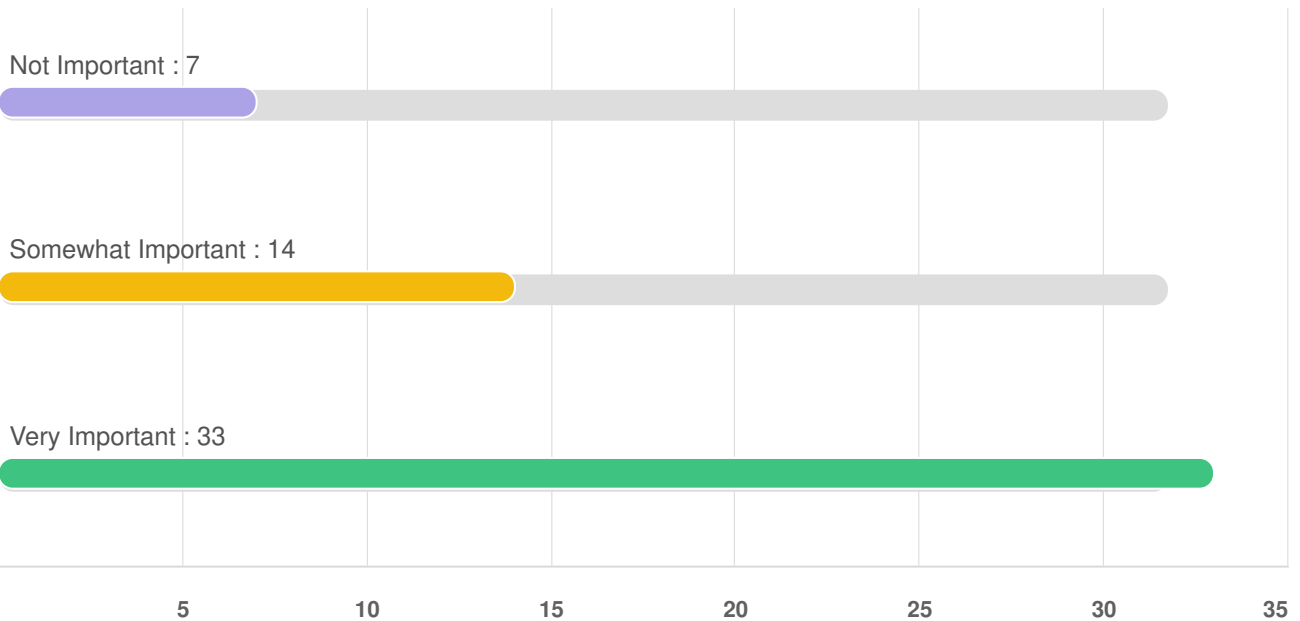
Mandatory Question (54 response(s))

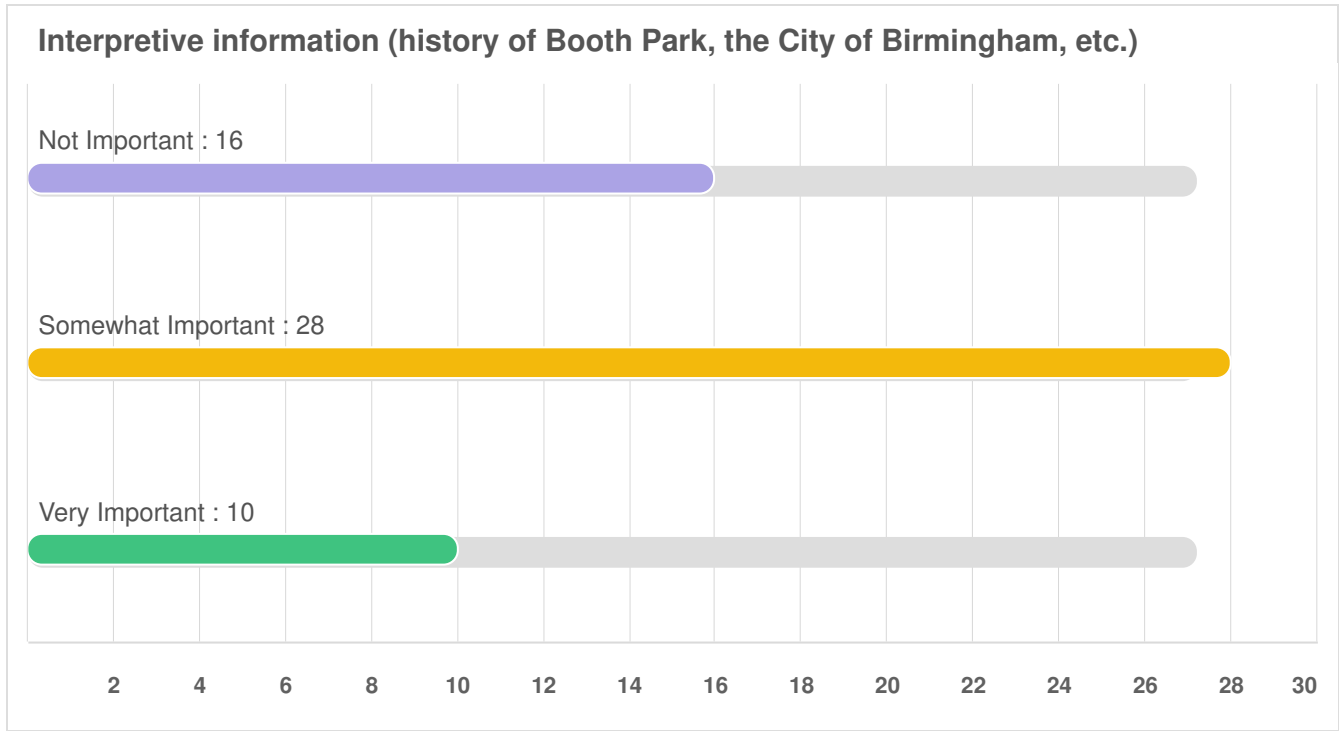
Question type: Likert Question

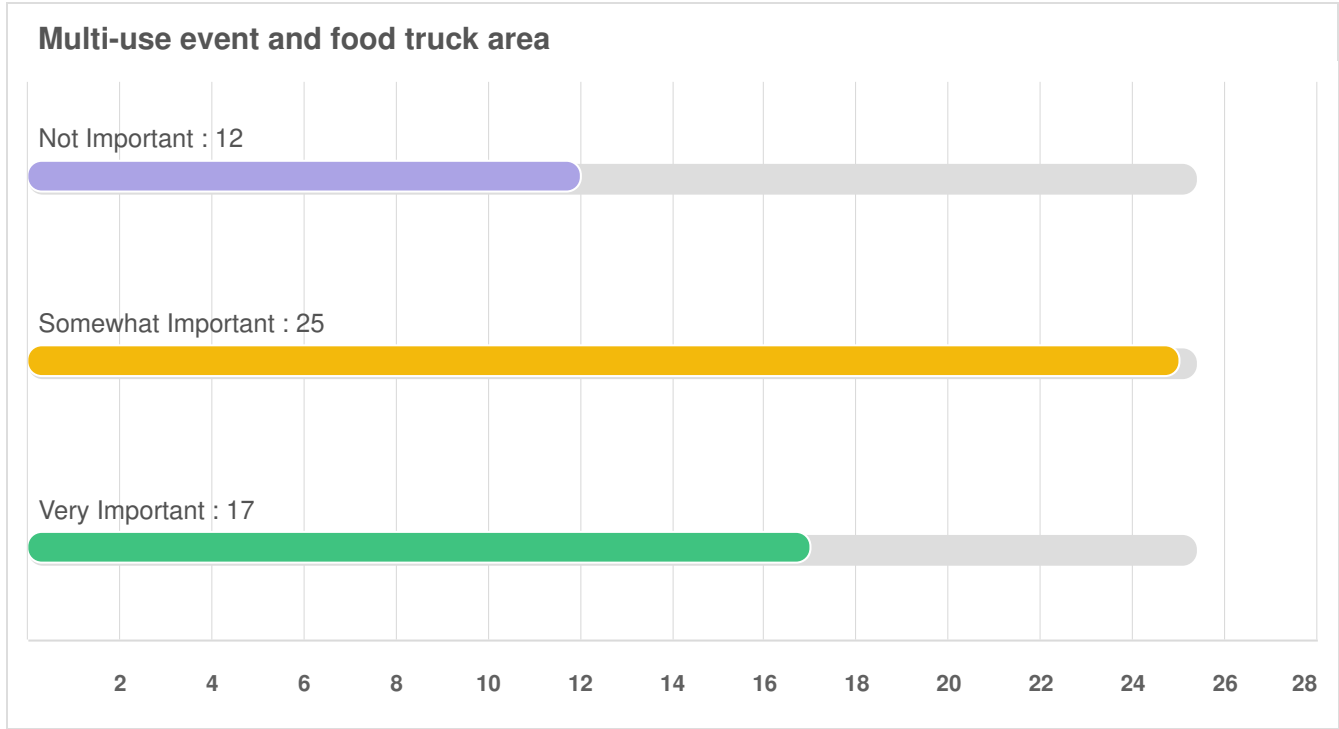
Q1 | The Park Plan has incorporated the following features. Please let us know how important they are to you.

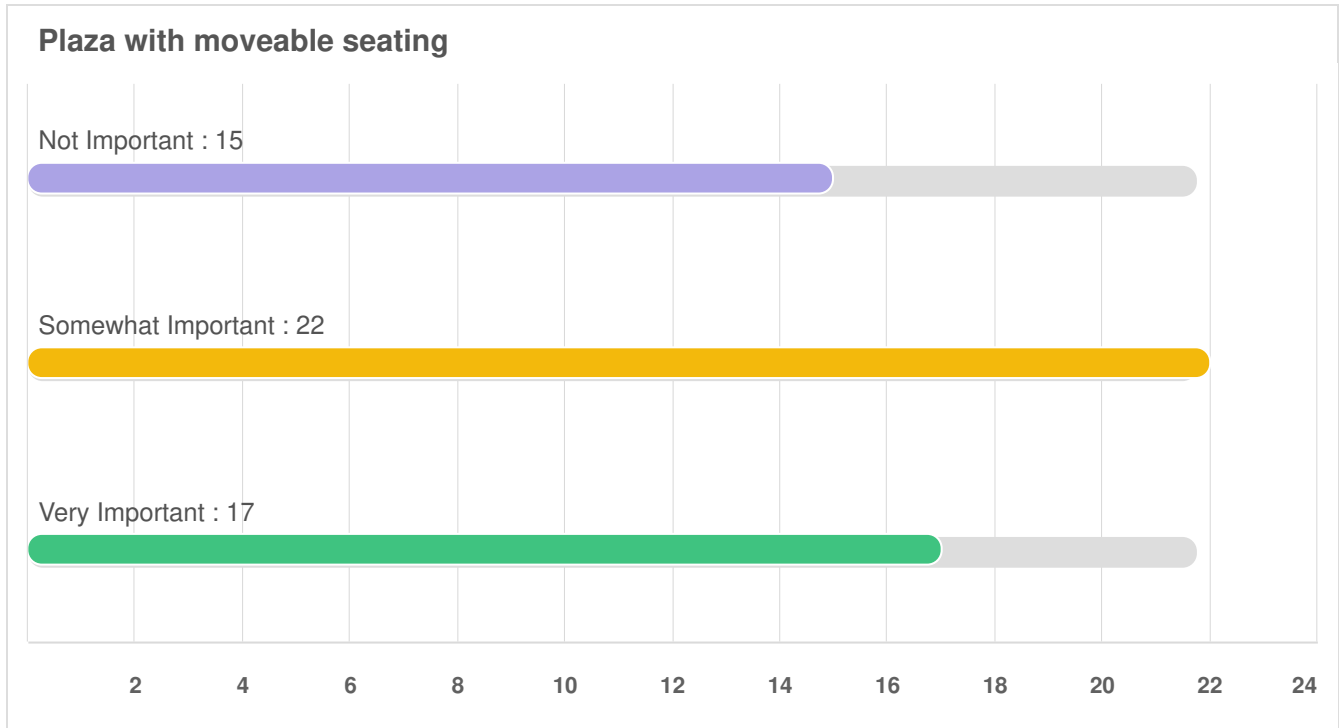


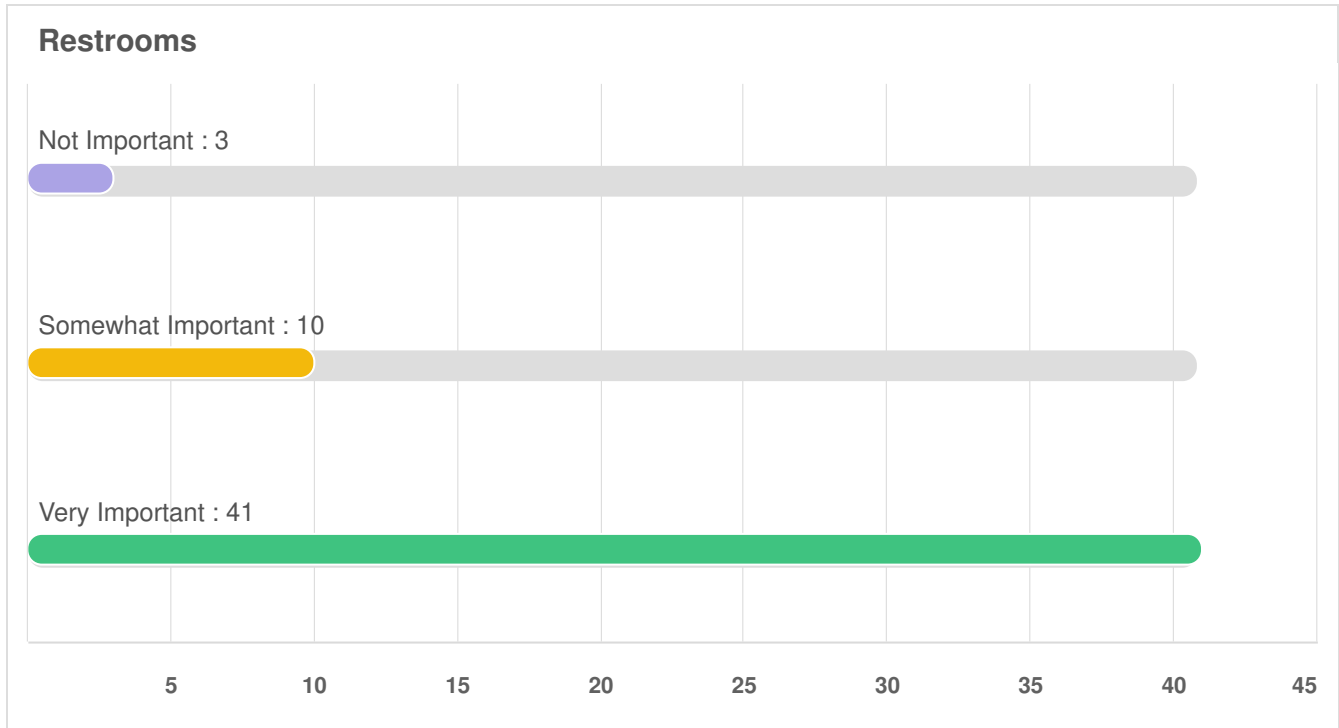
Connectivity to the Rouge River Trail System and to the community with Wayfinding (signs, maps, confidence markers)

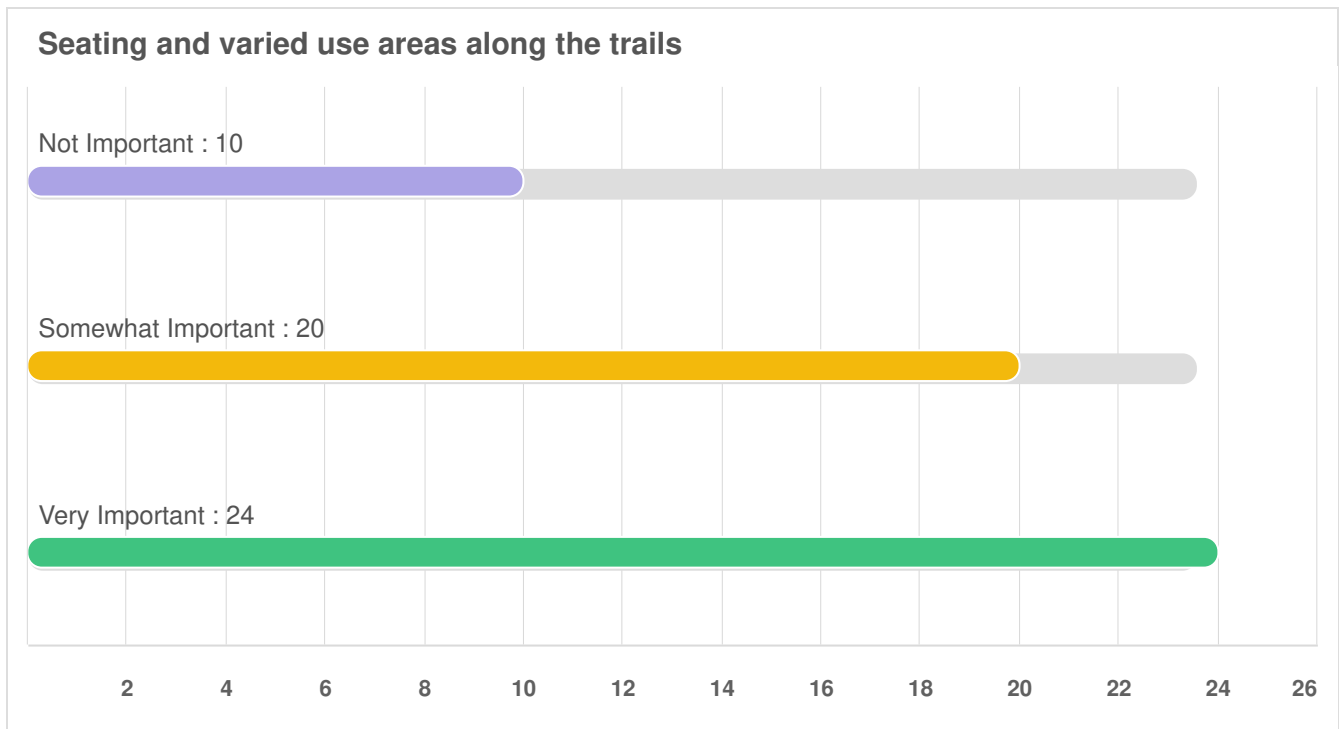


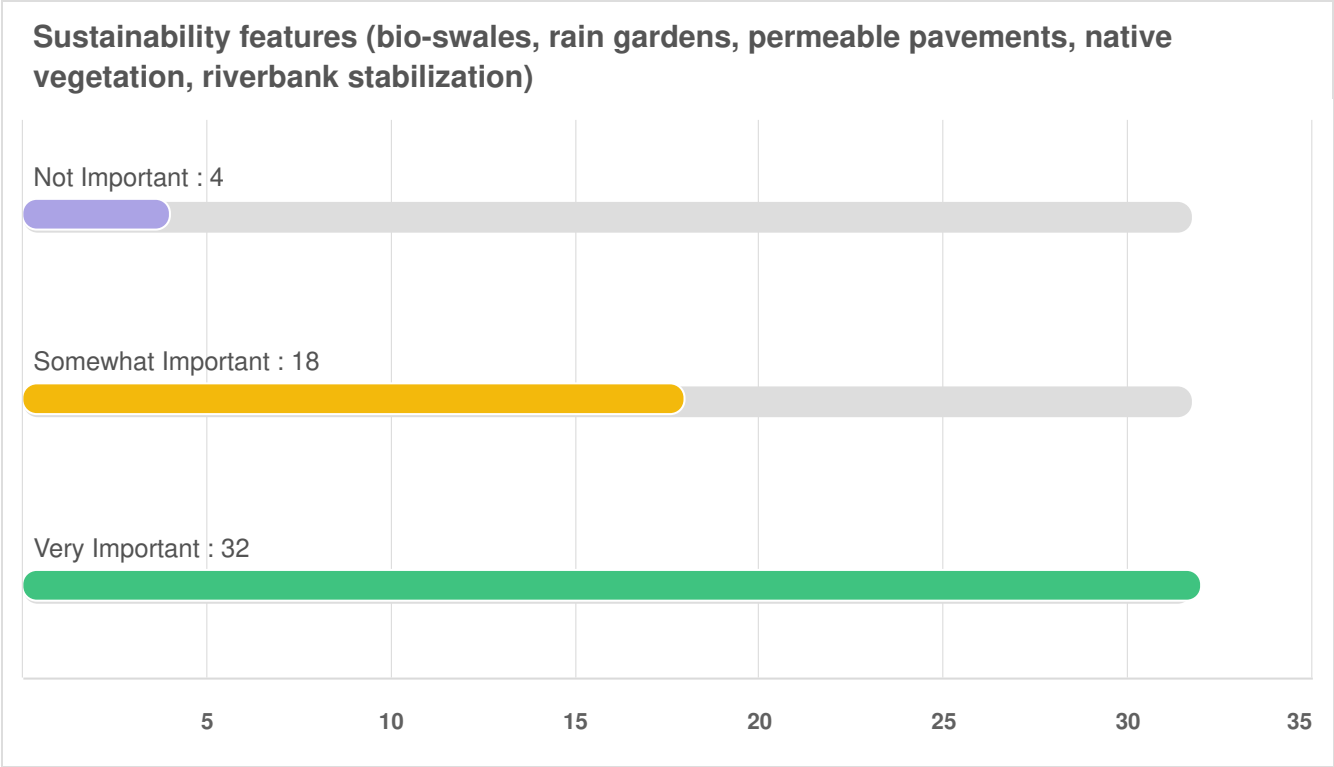












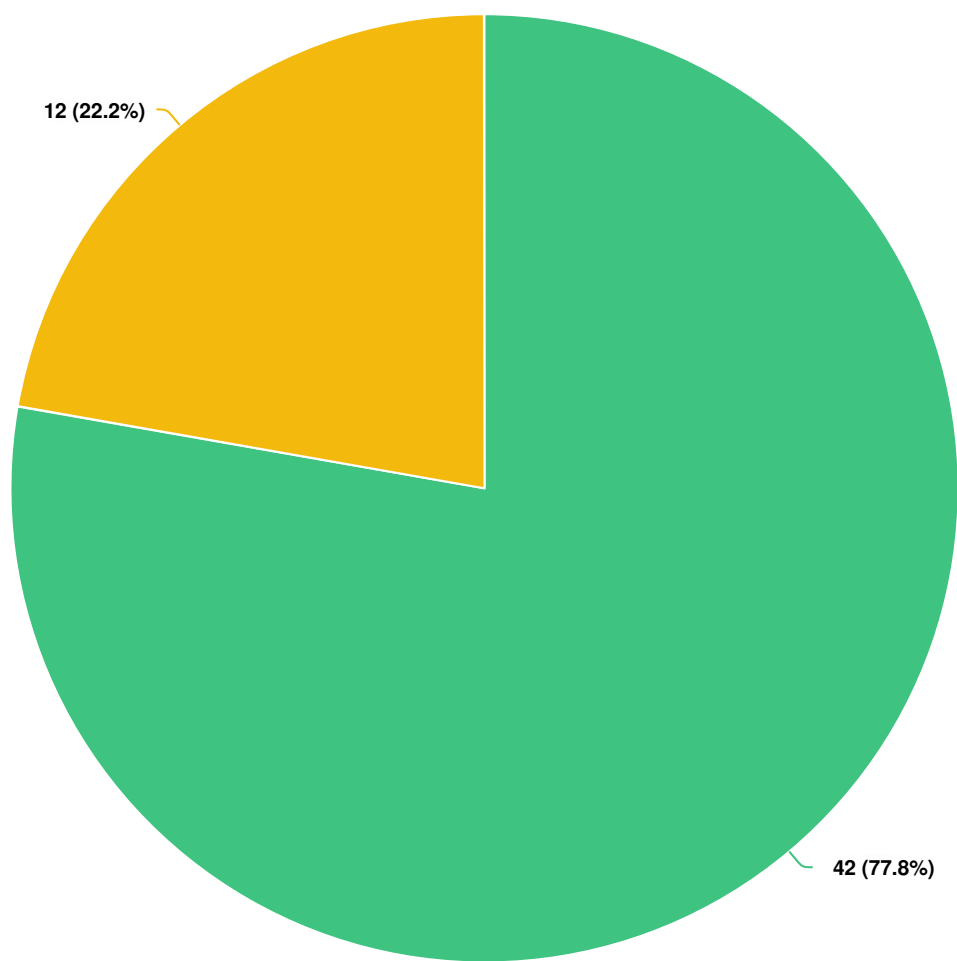
Q2 Please rank the features of the Park Plan in order of importance to you. 1=Most Important, 8=Least Important

OPTIONS	AVG. RANK
Restrooms	2.91
Accessibility for all ages and abilities	3.59
Connectivity to the Rouge River Trail System and the community with Wayfinding (signs, maps, confidence markers)	3.80
Sustainability features (bio-swales, rain gardens, permeable pavements, native vegetation, riverbank stabilization)	4.37
Seating and varied use area along the trails	4.63
Multi-use event and food truck area	5.17
Plaza with movable seating	5.20
Interpretive information (history of Booth Park, the City of Birmingham, etc)	6.33

Mandatory Question (54 response(s))

Question type: Ranking Question

Q3 Is there another item of importance to you not described above?

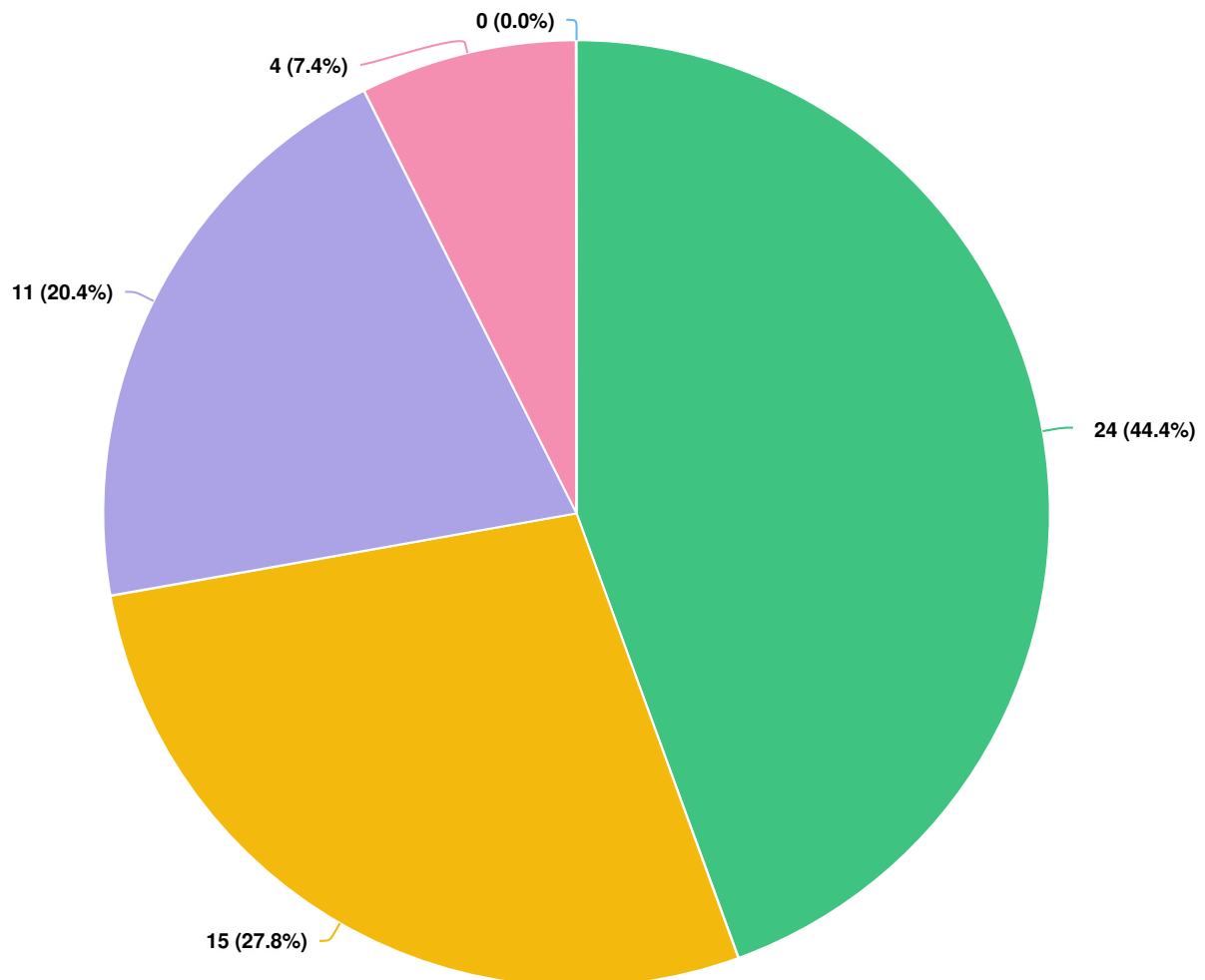


Question options

● Yes- Please describe ● No

Mandatory Question (54 response(s))
Question type: Radio Button Question

Q4 Should lighting be used in the new plaza and restrooms?



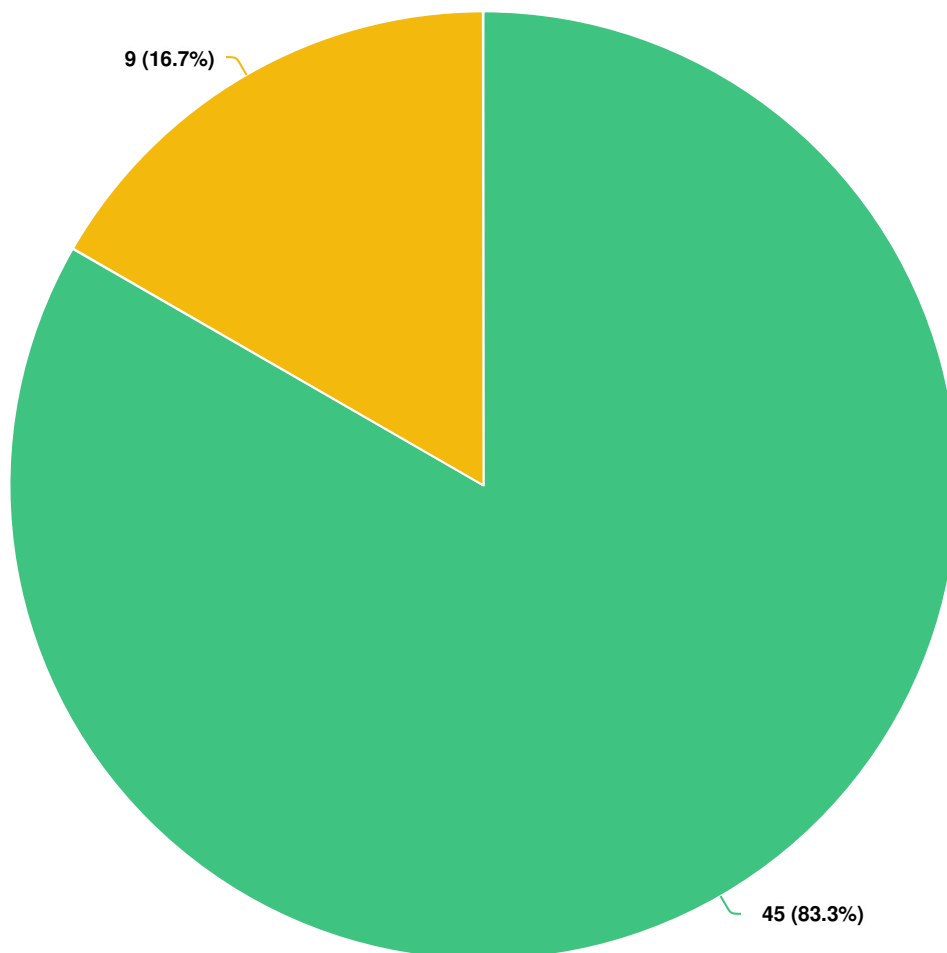
Question options

- Yes, sparingly for plaza only
- I do not think lighting should be used at all
- I would like lighting to extend further into the park in addition to the plaza and restrooms
- Yes, sparingly for restrooms only
- Yes, sparingly for both plaza and restrooms

Mandatory Question (54 response(s))

Question type: Radio Button Question

Q5 | The preliminary design includes ecologically sustainable features, such as permeable pavements, rainwater infiltration, native and wildlife friendly plantings. Are there additional features you would like employed?



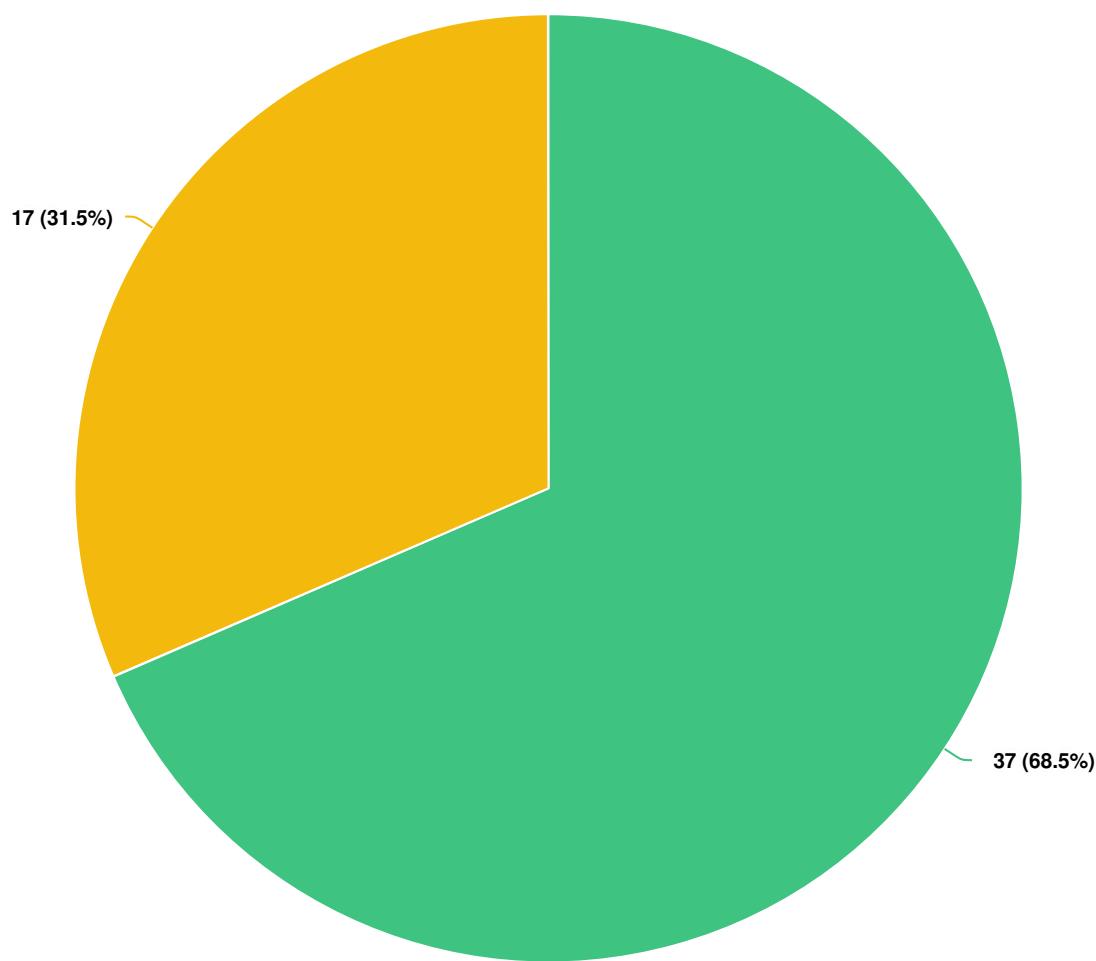
Question options

☐ Yes- Please describe ☒ No

Mandatory Question (54 response(s))

Question type: Radio Button Question

Q6 | Are there additional amenities you would like added to the park?

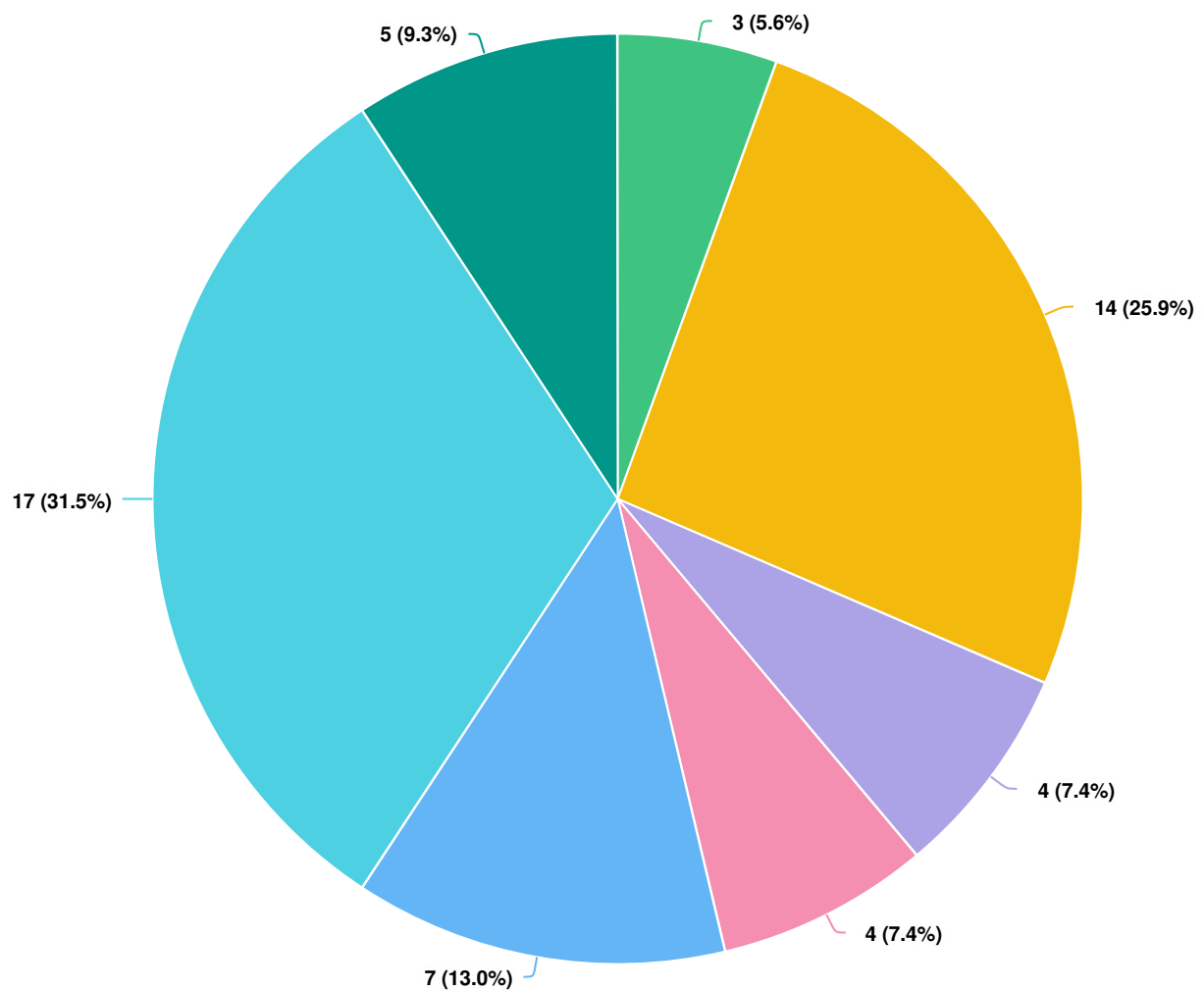


Question options

● Yes- Please describe ● No

Mandatory Question (54 response(s))
Question type: Radio Button Question

Q7 | The pathway improvements to Booth Park must be ADA Accessible. Do you have a preferred surface material for the pathways?

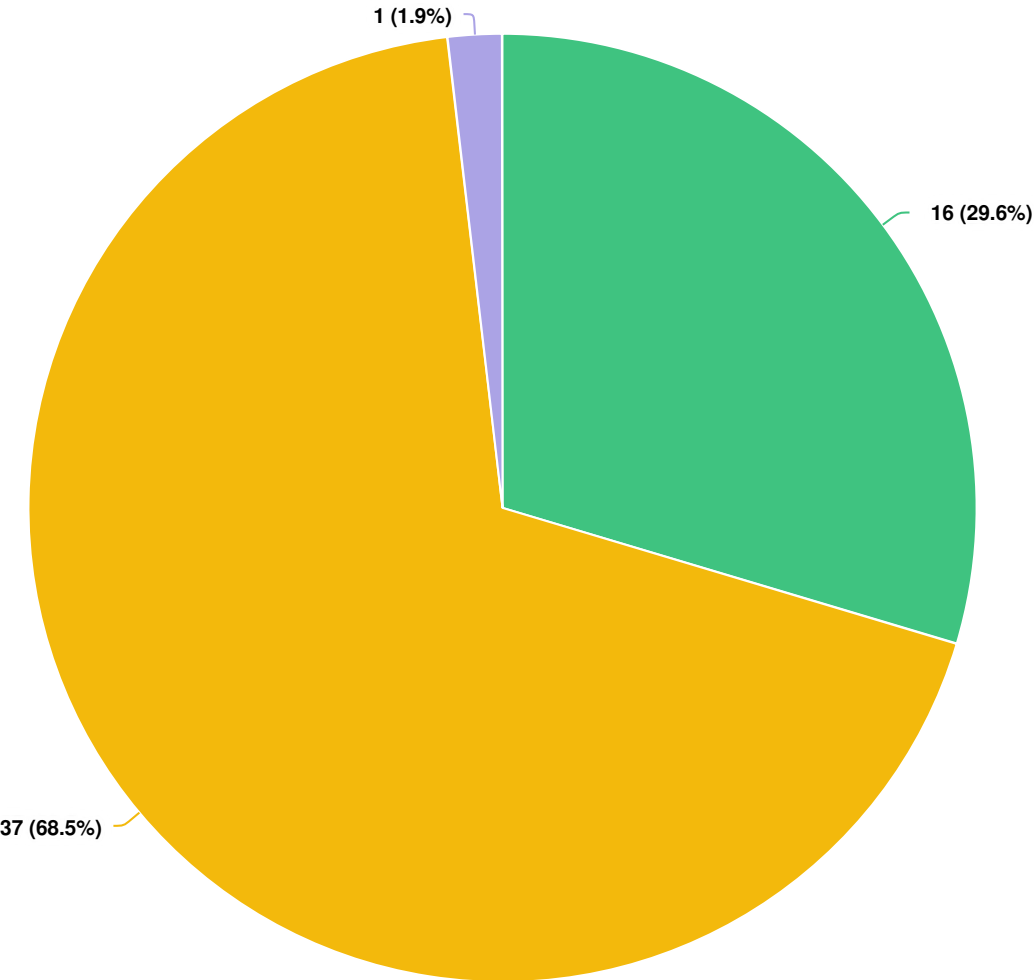


Question options

- ☐ I prefer another option (please specify)
- ☐ No preference
- ☐ I prefer engineered woodchips-the same as the chips for the existing playground at Booth
- ☐ I prefer paver pathways
- ☐ I prefer asphalt pathways
- ☐ I prefer crushed limestone/stone pathways
- ☐ I prefer concrete pathways

Mandatory Question (54 response(s))
Question type: Radio Button Question

Q8 | Please tell us how you use the trail at Booth Park:

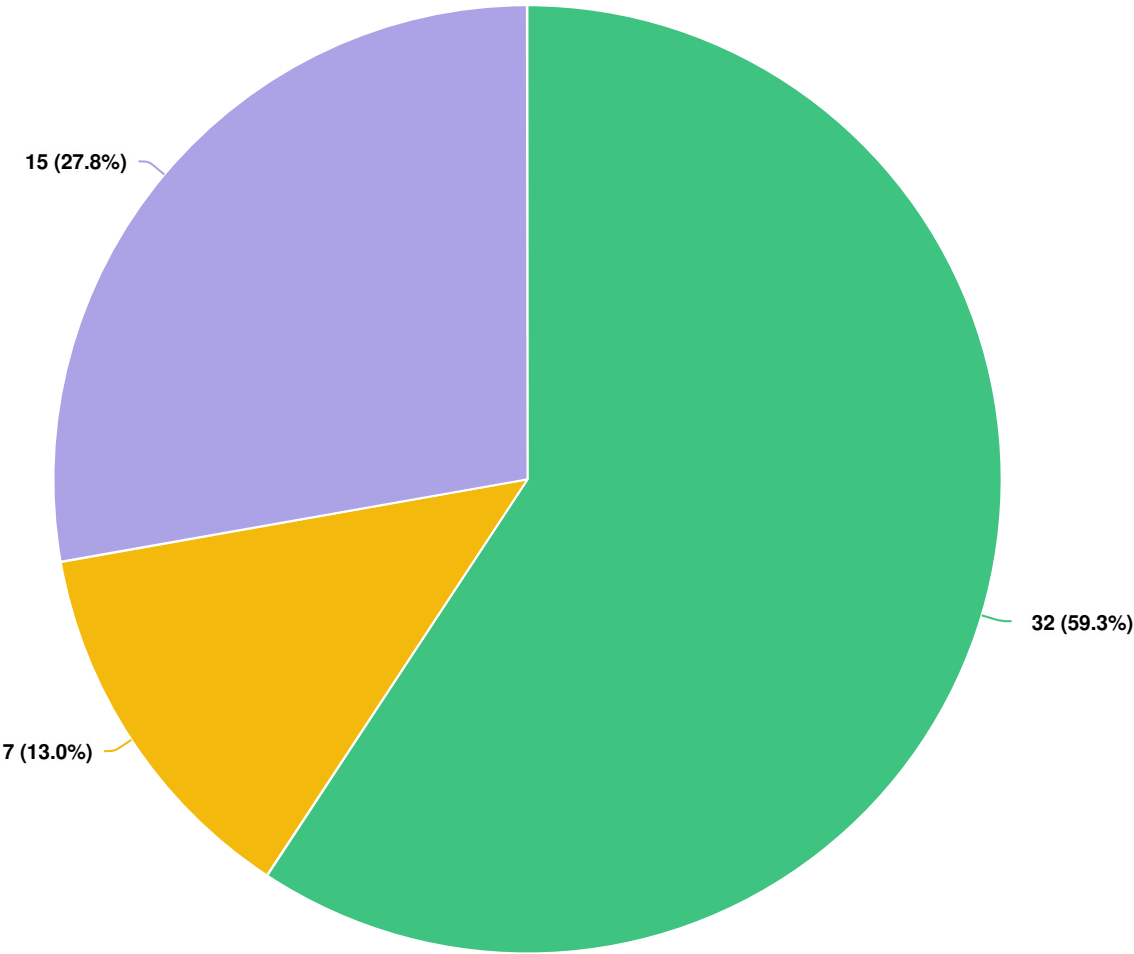


Question options

- ☐ I don't use the trail
- ☐ I use the unmaintained (dirt) paths down to the river that branch off the maintained trail
- ☐ I only use the maintained trail within Booth Park

Mandatory Question (54 response(s))
Question type: Radio Button Question

Q9 Would you like a maintained trail down to the river in the park?



Question options

No preference No Yes

Mandatory Question (54 response(s))
Question type: Radio Button Question

Q10 | Is there anything else you would like us to know about the Park Plan?

mm123

5/14/2024 06:28 PM

The lighting could be on a timer so it is not on all night long to disturb the wildlife/nature and the people who live nearby.

Kim Cramer

5/15/2024 06:19 AM

We love the bathroom addition!! Our kids always complain about the porta potty and will only use it in a true emergency.

archer

5/17/2024 06:26 AM

Connecting all the trails in Birminham is very important. Working on the entrance at booth is just the beginning.

urbandezine

5/17/2024 09:20 AM

The design of the Restroom building should be substantial and architecturally reflect the style of Birmingham buildings

cecollins

5/20/2024 02:50 PM

N/A

christinazivan

5/20/2024 04:28 PM

The drinking fountains don't work & the stairs have been broken and closed off for quite some time.

Madison St

5/20/2024 06:16 PM

I use both the maintained and dirt trails with my dog. We both really enjoy using the trails throughout Birmingham.

lafon1am

5/20/2024 07:03 PM

I'm excited to see it come to fruition for all to enjoy!

sdobelhall

5/20/2024 07:47 PM

Exciting project!

Jdcramer

5/21/2024 05:26 AM

Add more splash pad features

Mkdelo03

5/21/2024 05:48 AM

The appeal of this park / trail is that it is a quiet, well-kept secret that belongs to the surrounding neighborhoods. The addition of plazas, restrooms and food trucks will make the crowds unbearable and totally ruin this hidden gem.

calibanga

5/21/2024 05:58 AM

no

dougcharron

5/21/2024 06:30 AM

It's a great park. Would love a more manicured walking path in the forest. Love the bathroom designs. Overall, great work!

D Lakeview

5/21/2024 07:24 AM

Too much money being spent on this park. In addition, how will restrooms be maintained? That's constant overhead. Use the money to improve the lives of TAXPAYERS.

nadiackeating

5/21/2024 07:28 AM

n/a

KatyD

5/21/2024 12:17 PM

I think Booth Park is a treasure in downtown and we use it fairly often as city residents. We loved taking our boys to "cardboard sled" on the hill, and they loved the musical instruments on the playground. I would like to see access to the river trails.

grannyh

5/22/2024 07:57 AM

no

LM_0928

5/22/2024 05:26 PM

Excited to see updates in this space!

Bookerwyle

5/23/2024 01:53 PM

I think the plan is really nice, especially the added restrooms. But parking and shaded areas should be a priority as well.

Paul Millenbach

5/25/2024 04:08 AM

Yes, it's stupid. It's a park. Leave it alone. It's green space. Spend taxpayer dollars on repairing the decrepit roads.

rexboyce

5/27/2024 05:22 AM

Just some more trash cans throughout the paths.

maro

5/30/2024 08:21 AM

I hope you keep the charm of the current path. it is already a very large path and the vegetation is not sizable. making the path any large/adding use areas could easily cut into the remaining vegetation.

Optional question (22 response(s), 32 skipped)

Question type: Single Line Question



MEMORANDUM

Department of Public Services

DATE: August 9, 2024

TO: Parks and Recreation Board

FROM: Carrie Laird, Parks & Recreation Manager

SUBJECT: Park Rules and Regulations Review

INTRODUCTION:

The City of Birmingham Park Rules and Regulations have been in place for many years, and are regularly reviewed and updated as necessary. The Parks and Recreation Board recommends the updated rules to the City Commission for adoption. Once adopted, the Park Rules are incorporated into the City Ordinance, as appropriate. The most recent version of the Rules were approved by the City Commission in March of 2021.

BACKGROUND:

The Park Rules and Regulations are available on the Birmingham Website, and a select few rules are posted on Park Signs located at each park throughout the City. The QR code on the sign links to the Park Rules and Regulations on the city website.

The Department also posts supplemental signage in different areas, such as "Dogs Must be Leashed", "No Dogs in the Play Area", "Fishing Allowed for ages..." and various parking restrictions throughout the park system.

Additionally, Tennis Courts, the Dog Park and the Skate Park have rule signs posted specific to each area.

Beginning with the 2021 version of the Park Rules and Regulations, and including language that is posted at the Skate Park, Dog Park and all Tennis Courts and Pickleball the following displays the recommended changes (shown in red).

Park Rules and Regulations- Recommended Changes:

Rule 17: Fireworks, Sky Lanterns & Explosives

No person shall bring into a park, or public property or have in his possession, or set off or otherwise cause to explode any firecrackers, torpedo, rocket, sky lanterns, fireworks or explosives, or discharge them or throw them into any park area from land or property adjacent thereto.

18. No person shall obstruct any walkway or driveway in any public park or playground. No person shall injure, mar or damage, in any manner, any monument, ornament, fence, bridge, seat, tree, fountain, shrub, herbaceous plant, flower, playground equipment, or other public property within or pertaining to such parks. **The use of a metal detector must be approved by the Department of Public Services by issuance of a park permit.**

Rule 23: Boating

No person shall place or operate any boat **including remote control** propelled by any engine in or upon waters in any park in the city, including the water of Quarton Lake. Removed duplicate language.

Rule 25: Fishing and Wildlife

No person shall feed **any animals including deer, cats,** geese, ducks, birds or other fowl in any City Park or any municipal Golf Course.

Posted Signage- Recommended Changes:

Skate Park-No Recommended Changes

Dog Park- No Recommended Changes

Tennis Courts-Recommended Changes:

- No in-line skates, skateboards, bicycles, wagons, roller-skates, **electric boards** or scooters.
- ~~Private instructions and classes are NOT allowed without written permission from the Parks and Recreation office. In addition, the established fee of \$5/court applies for every 2 hours reserved.~~
- ~~All instructors must provide the City of Birmingham with liability insurance and sign a hold harmless agreement before use of the tennis courts.~~
- Private instructions and classes are allowed **by permit only. All instructors must secure a permit through the Parks and Recreation Office, provide liability insurance and sign a hold harmless agreement before use of the courts. A permit fee of \$20 per court per hour applies. Any instruction without permit will be considered a rule violation and subject to penalty.**
- No ball playing of any kind other than tennis. **Pickleball is only permitted at Crestview Pickleball courts, Poppleton multi-purpose courts or any courts designated by the Department of Public Services.**

This summer there have been multiple instructors not following the current requirement about receiving permission from the Department of Public Services, not providing insurance and not paying the minimum fee of \$5/per court for two hours.

Staff has reached out to the instructors in multiple ways but yet they continue not to follow the rules. One of the instructors created a false name and address to reserve the tennis courts, another kicked off a Birmingham resident indicating that they had booked the courts and that the City of Birmingham's reservation system allowed a double booking which was not the case.

Pickleball Courts-Recommended Changes:

Private classes are not allowed. **Remove the rest:** without written permission from the Parks & Recreation Office. In addition, the established fee of \$5/court for private classes applies for every 2 hours reserved.

Remove: Paddles/balls are available for rent at the Parks and Recreation Office

LEGAL REVIEW:

The City Attorney will reviewed the proposed changes to the Park Rules and Regulations.

FISCAL IMPACT:

Upon approval of the updated rules by the Parks and Recreation Board and the City Commission, new signs will be ordered and park maintenance staff will replace the signs.

Tennis Court:

Replace 6 (six) Tennis Court Signs

New Sign: \$250

Labor to remove and replace: \$300

Total: \$1,800

Pickleball Court:

Replace 1 (one) Pickleball Sign

New Sign: \$250

Labor to remove and replace: \$50

Total: \$300

Grand Total: \$2,250. There are funds available for park signs in the 2024-2025 approved budget.

ATTACHMENTS:

- Park Rules and Regulations, Skate Park Rules, Dog Park Rules, Tennis Court Rules, Pickleball Rules

SUGGESTED RESOLUTION:

To approve the updated Park Rules and Regulations and updated language on posted park signage. Further, to recommend the Park Rules and Regulations be considered for adoption by the City Commission.

Rules and Regulations

Use of Parks & Park Permits

1. The use of any City of Birmingham park or facility is at your own risk. The City does not assume responsibility for injury or for any loss, theft or damage to personal items.
2. A rental permit is required for reservation of all city facilities. No refund of the rental fee shall be made due to inclement weather. Park permits may not be assigned or otherwise transferred. A hold harmless agreement must be executed in order to obtain a permit.
3. A person holding a park permit shall maintain such permit in his or her possession at all times while utilizing the municipal facility. Such permit shall be presented by its holder upon request by a City official or employee. A permit does not give its holder exclusive use of the entire park, except for Springdale Shelter.
4. All set-up/clean-up must be done by the permit holder.
5. All parks must be maintained and left in a neat and clean condition, with garbage and refuse prepared for proper disposal. The person or entity in whose name the rental permit is issued shall be responsible for leaving the facility in a clean and orderly condition. Further, the permit holder accepts full responsibility for all damage to City property as a result of its activities. A fee may be assessed should clean up or repair by the City become necessary. This fee shall include, but is not limited to, all labor, equipment and administration expense incurred by the City.
6. Any equipment, valuables, or clothing left in or around the park shelter on closing shall be kept at the City of Birmingham Parks and Recreation office for two weeks. Contact the office at (248) 530-1642 to make arrangements for pick-up.
7. The City reserves first priority with regard to the use of all City Parks. A park permit grants its holder a permit to use the park or public property for a specified date and time and is revocable by the City. The City may order revocation of a park permit, at any time with refund of fees paid, and all permits are granted with this understanding.
8. The Director of Public Services may, subject to the approval of the City Manager and the City Commission, establish supplemental

regulations for all uses requiring the issuance of a permit for use of municipal facilities and fees for the use of the various facilities.

Alcoholic Beverages & Intoxicants

9. It shall be unlawful for any person to possess or consume any alcoholic liquor, intoxicants, including spirits, beer or wine, in any recreational facility, city owned property or park operated by the City or during any function, sporting event, skating exhibition, dance or other event; unless such alcoholic beverages were purchased on city owned premises from a duly licensed vendor or served in accordance with a Special Event permit issued through the City Clerk's office. Birmingham Golf Courses have MLCC-issued liquor licenses.

Smoking

10. Smoking of tobacco or any other substance, or smoking, consumption or use of marijuana products, or use of vapor producing products such as an e-cigarette or similar device, is strictly prohibited pursuant to city ordinance, in all buildings, facilities, parks and playgrounds operated and maintained by the City of Birmingham.

Park Hours

11. City parks and public property are open between the hours of 6:00 am to 10:00 pm except as noted below or as posted. Between the hours of 10:00 pm to 6:00 am, parks and public property are closed and during such hours, no person shall enter into or remain on such property, except those persons whose presence is related to or in connection with a municipal activity.

- (1) Springdale Park hours shall coincide with Springdale Golf Course hours and park rentals. The closing of the park is up to the discretion of the City of Birmingham Representative on duty.
- (2) The Skate Park is open from 8:00 am to 10:00 pm.

For purposes of this section, public property shall be deemed to be property zoned as public property under the provisions of chapter 126.

Animals

12. Leashed dogs are allowed in any public park except in those areas as designated and posted by the Department of Public Services. Dogs are allowed on public property as long as they are restrained by a six foot maximum length chain or leash and under the reasonable control of some person. Owners and walkers of dogs on public property must comply with all City ordinances, including Chapter 18, Article II, pertaining to dogs and cats.

Sec. 18-33 Restraint of dogs.

It shall be unlawful for any owner of any dog to permit the dog to go beyond the premises of such owner unless restrained by a chain or leash and under the reasonable control of some person. (Code 1963, § 9.80(1))

13. Dogs are not permitted in any public playground or in any **other** area designated by the Department of Public Services. These areas shall generally include, but shall not be limited to, areas under and immediately adjacent to play structures and play equipment; sandboxes; the playing surface of ball fields, soccer fields, tennis courts, outdoor ice rinks, golf courses and sledding hills, when such areas are in use; pavilions and stages; fountains; and in areas designated for City permitted events and functions of concentrated use during said event or function.

Sanitation

14. The owner or walker of a dog is responsible for the collection of all fecal matter and the disposal of such fecal matter in an appropriate city waste receptacle or in accordance with ordinance Section 18-35 Sanitation.

Sec. 18-35 Sanitation.

(a) It shall be unlawful for any person to permit any animal owned or harbored by him to deposit fecal matter in any place other than the premises where the animal is harbored or kept, unless such fecal matter is immediately collected and removed to the premises where the animal is harbored or kept.

(b) It shall be unlawful for any person to walk any animal on any property not owned by such person, whether public or private, unless such person has an appropriate device for the collection of fecal matter in his immediate possession and an appropriate depository for the transmission of fecal matter to the premises where the animal is harbored or kept.
(Code 1963, § 9.95; Ord. No. 1586, 4-18-94)

Sound Amplification

15. The use of loudspeakers or other sound enhancing equipment for the amplification of sound or music is prohibited, unless allowed by permit issued by the City. Any amplification must be reasonable as to not disturb the peace.

Fires

16. Open burning of any kind is prohibited at all city parks and facilities. No person shall drop, throw, or otherwise scatter lighted matches, burning cigarettes or cigars, tobacco paper, charcoal or other flammable material at any park, facility or trail. However, the use of barbecue burners or cooking in the picnic area at Springdale Park is permissible. No person shall leave the immediate vicinity of any fire, which he/she has started or used without first extinguishing the fire.

Fireworks & Explosives

17. No person shall bring into a park, or public property or have in his possession, or set off or otherwise cause to explode any firecrackers, torpedo, rocket or other fireworks or explosives, or discharge them or throw them into any park area from land or property adjacent thereto.

Obstructions; Damage; Fences; Disposal

18. No person shall obstruct any walkway or driveway in any public park or playground. No person shall injure, mar or damage, in any manner, any monument, ornament, fence, bridge, seat, tree, fountain, shrub, herbaceous plant, flower, playground equipment, or other public property within or pertaining to such parks.

19. No person shall interfere with any fence constructed in or about any park; or deface, injure, remove, or destroy any tree, shrub, herbaceous plant, flower, or turf in any park or boulevard; or remove any dirt, sand or earth from any park or boulevard, or otherwise remove, destroy or injure any property therein; or leave or deposit any filth, rubbish, dirt, wastepaper or other refuse in any place in any park or boulevard except in containers provided in parks for that purpose. Dumping or disposal of household or commercial waste transported from off-site to city property is prohibited.

Peddling, Vending, Advertising and Signs

20. No person shall engage in the business of peddling or vending in any City of Birmingham Park without first obtaining a license from

the city clerk's office. Contact the office at (248) 530-1880 for additional information.

21. No person shall expose, distribute, place any sign, advertisement, circular notice, or statement, or display any banner, City of Birmingham emblem, or design without written permission from the City.

22. Decorations may be attached to the Springdale shelter by means of masking or cellophane tape only. There should be no decorations drilled, fastened, or otherwise attached to the shelter with materials such as staples, nails, or tacks.

Boating

23. No person shall place or operate any boat propelled by any engine in or upon waters in any park in the city, including the water of Quarton Lake.

Fishing and Wildlife

24. Subject to State of Michigan fishing licenses regulations, fishing in a body of water in a Birmingham park, including Quarton Lake is allowed. Fishing is not allowed at either Lincoln Hills Golf Course or Springdale Golf Course.

25. No person shall feed any geese, ducks, birds or other fowl in any City Park or any municipal Golf Course.

26. No person, except an authorized city employee shall injure, kill or capture any wild bird, or disturb any wild bird's nest or the contents thereof.

Swimming

27. Swimming and/or wading is prohibited in any lake, river, public fountain or public pond in the City of Birmingham.

Vehicles

28. No vehicles, except authorized City vehicles, are allowed to be driven across lawns, sidewalks, or any other park surface for any reason.

29. No person shall operate, use, ride, or pull another individual on a wheeled vehicle, on City-owned tennis courts, basketball courts, fountains and stone work ledges. Prohibited wheeled vehicles

include, but are not limited to, in-line skates, skateboards, bicycles, hover boards, wagons, roller-skates, and scooters.

30. It is unlawful for any person to operate any motorized vehicle, trail bike, all-terrain vehicle, or similar type of motorized sport vehicle anywhere in any park or trail, except for the proper use of golf carts on city golf courses.

Violation of Rules & Regulations

31. Violation of these rules or other posted rules is a misdemeanor punishable by a fine up to \$500, or imprisonment for a term not exceeding 90 days, or both.

City Commission Approval: 3/8/2021
Parks and Recreation Board Approval 12/1/2020



SKATE PARK

Hours of Operation: 8:00 am to 10:00 pm

IN CASE OF EMERGENCY, CALL 911

- Use of this facility is at your own risk. The City does not assume responsibility for personal injury or for any loss, theft or damage to personal items.
- You are responsible for the park's future – help keep it safe, clean and friendly. Do not litter or abuse the park in any way. Report any damage, acts of abuse or suggestions to the City Parks and Recreation Department, 248-530-1642.
- Be responsible for yourself, take turns and respect the skill level of others and the equipment. Be courteous to other skaters. Roughhousing and violence are not permitted.
- No bikes, personal ramps, or motorized equipment.
- No makeshift or street items. Existing park equipment may not be modified or moved.
- Food, drink and glass containers are prohibited inside the fence.
- Smoking, profanity and loud music are prohibited.
- No spectators inside the fence. Spectators assume risk for themselves.
- Use of safety equipment such as helmets, gloves, knee and elbow pads, wrist supports and proper shoes is recommended. Skaters are responsible for providing their own skateboard, skates, and other equipment. Skaters are responsible for inspecting equipment prior to use to insure their safety (do not use if broken or wet).
- This is an alcohol, weapon and drug free zone.
- Items brought into the Skate Park are subject to inspection at any time.
- The City reserves the right to schedule organized activities at any time without notice.
- Know your own abilities – skate safely. The Skate Park is used by both experienced and inexperienced skateboarder and skaters. Serious injury may result from being hit by a skateboard, falling or colliding.
- Rule violators may be cited, ejected or have their skate park privileges revoked. Loitering and trespassing are strictly prohibited.
- The Skate Park may be closed during inclement weather.

These rules are subject to change at any time and without prior notice.

Dog Park
Hours: 6:00 am to 10:00 pm
Exception:
Wednesdays: 12:00 pm –10:00 pm (April –November)
Membership Required for Entry
See bhamgov.org

1. All users must have a valid dog license and tag, on their dog at all times, and and abide by these rules and City of Birmingham ordinances.
2. Users are legally responsible for their dogs and any injuries and/or damages caused by their dog(s).
3. Dogs exhibiting aggressive behavior or barking excessively must be removed from the site immediately.
4. Use of the off leash dog area is at the user's own risk.
5. Minimum age for users is 18 years of age. Children between 5 and 17 years of age may enter with a parent or guardian. Children less than 5 years of age are not permitted in the fenced area.
6. Users may only bring 2 dogs into the Dog Park.
7. Users must remain inside the fenced site with their dog(s) at all times.
8. The following are prohibited in the Dog Park: dogs in heat, dogs under the age of four months, dogs with contagious diseases, internal or external parasites, aggressive dogs, and.unfixed male dogs over the age of six months.
9. Fighting between dogs is not allowed. Users must immediately remove any dog exhibiting hostility or aggressive behavior from the site. Users may protect dogs for which they are responsible but shall first protect people in the site, and then cause or encourage disengagement and separation of dogs engaged in fighting or aggressive behavior. Users bear all risks of their involvement. City of Birmingham employees have no responsibility to intervene in any such situation and are not responsible for the behavior or suitability of any dog brought to the Dog Park.
10. Food, alcoholic beverages and glass containers are not allowed in the Dog Park.
11. Pet food is prohibited.
12. Users must clean up their dog(s) waste and deposit it in the receptacles provided.
13. The City of Birmingham Department of Public Services reserves the right to prohibit the use of the site to any user who is in violation of these rules or any ordinance.
14. From time to time parts of the Dog Park may be closed for maintenance purposes.

Adopted by the Parks and Recreation Board December 2, 2003
Adopted by the Birmingham City Commission February 9, 2004
Amended and Adopted by the Parks and Recreation Board October 5, 2010
Amended and Adopted by the Parks and Recreation Board November 10, 2020

City Contacts:
Monday – Friday 8:00am – 5:00 pm (except Holidays) 248-530-1642
After Normal Business Hours and Weekends: 248-530-1870



Tennis Court Rules

To reserve a tennis court visit www.play.bhamgov.org or contact our Parks and Recreation Office at 248-530-1642

To report damage contact the Parks and Recreation Office at 248.530.1642

The tennis rules exist for the purpose of maintaining our courts and providing the opportunity for all to use and enjoy the courts.

Each user is asked to cooperate and to assist in enforcing the tennis court rules.

Priority use of the courts are for Birmingham residents that have made a reservation with the Parks and Recreation office.

Tennis players may reserve two (2) hours of court time per week for up to two weeks; (i.e. 2 hours for the current week and 2 hours for the following week) between 7:00 am -9:00 pm, Monday - Sunday.

No in-line skates, skateboards, bicycles, wagons, roller-skates, or scooters.

No ball playing of any kind other than tennis or pickleball is permitted.

Private instructions and classes are NOT allowed without written permission from the Parks and Recreation office. In addition, the established fee of \$5/court applies for every 2 hours reserved.

All instructors must provide the City of Birmingham with liability insurance and sign a hold harmless agreement before use of the tennis courts.

Pickleball Rules:

- Pickleball Only
- Good sportsmanship is the rule, respect all players
- Limit Play to 1 hour if others are waiting
- Designated Open Play 9am-12pm daily- see Open Play rules
- Use the Pickleball Courts at your own risk
- No pets on courts
- No food, glass or alcoholic beverages
- No foul, combative or hostile language
- No in-line skates, skateboards, bicycles, wagons, roller-skates or scooters
- Proper footwear required
- Children under the age of 12 must be accompanied by an adult
- Reservations available 12pm-8pm daily for residents only:
Visit www.play.bhamgov.org to reserve
- Residents may reserve two (2) hours of court time per week for up to two(2) weeks
- Private classes are not allowed without written permission from the Parks & Recreation Office. In addition the established fee of \$5/court applies for every 2 hours reserved.
- Paddles/balls are available for rent.

Parks & Recreation 248-530-1642

Open Play (Mixed Skill Level) Rules:

9am-12pm Daily

- When courts are full, waiting players are to place their paddles in the paddle holder
- If there is a paddle or more up in the paddle holder, even if there are empty courts: Teams that have finished their game- losers come off the courts and allow the waiting player(s) to mix in
- If there are eight (8) or more waiting: The entire foursome should exit the court upon completion of their game
- As players remove their paddles from the holder, they should move the bar to the right to the next set of paddles waiting and so on. If players remove their paddles at the far right or end of the holder, they should slide the bar back to the left or beginning of the holder

July 15, 2024

Dear Parks and Recreation Board Members,

We are writing to you regarding pickleball courts in the city.

We are pickleball and tennis players, and are very familiar with the differences between the sports. We also live on Lincoln, across from Lincoln Wells park, so we have experience in how pickle and tennis impact neighborhoods differently.

We are concerned about possible future pickleball courts situated near homes. The constant sound of pickle ball on racquet is hard to tolerate. It is a very different quality of sound vs a tennis ball. Also due to the nature of open play hours, the increased hours of constant noise and traffic have quite a negative impact on quality of life for existing neighbors/taxpayers. I can't imagine trying to sit in the backyard on Fairway and enjoy a nice dinner or cup of coffee with that level and quantity of sound intrusion if pickle courts were built.

Lincoln Wells park is a small neighborhood park that includes an active playground and newly painted tennis courts that are greatly used. It also has neighbors very near the courts- and potential sound problems. Even across the street, and in the back of our house, the sound can be quite annoying when people play pickle there. For these reasons, we would not want to see pickle ball courts at our small neighborhood park, or any other small neighborhood parks.

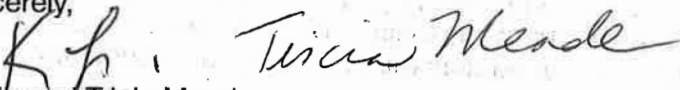
Another concern is that many of these players are not actually Birmingham residents. It is unfair to burden homeowners with sound issues when many/most players do not even live here and are going from community to community to play, especially in open play hours.

Across the country, communities are starting to realize the noise impact of pickle on homeowners, vs tennis. Communities are starting to have to work around these issues with sound screen and racquet rules- that would be hard to enforce on public courts. Placing new courts away from homes is the best way to avoid these issues.

Additionally, anticipated and current indoor pickle facilities should alleviate demand for pickle without irritating taxpayers. There are three affordable indoor choices in Birmingham right now (NEXXT, FUMC and the bubble) and a new facility under construction on Southfield. Players have plenty of options without additional noise intrusion on homeowners. If more courts are desired, perhaps Springdale would be the best choice, as it is far from homes and would not create the sound issues that dense neighborhoods would have to deal with.

We would be happy to participate in assisting with tennis or pickleball, or with parks committees in any capacity you see fit. We are blessed with beautiful parks and a lovely community. We would be glad to help contribute to efforts in this area.

Sincerely,



Kevin and Tricia Meade
1880 W Lincoln
248-514-6726
Triciameade3@hotmail.com

received
7/25/24 @
12:06 PM



MEMORANDUM

Department of Public Services

DATE: August 9, 2024

TO: Parks and Recreation Board

FROM: Brendan McGaughey, Parks & Forestry Foreman

SUBJECT: Manor Park Nature Preserve Natural Areas Pilot Program

INTRODUCTION:

The newly adopted Parks and Recreation Master Plan 2024-2028 encourages a shift in more sustainable practices throughout the City's parks and trails system to keep in line with the goals of Birmingham's City Commission and the 2040 Birmingham Master Plan. One of these goals in naturalizing areas in parks to eliminate maintained turf where feasible, which should help reduce pollutants, reduce long-term maintenance requirements and provide a more sustainable ecosystem.

BACKGROUND:

The Parks and Recreation Board approved a trial for natural area demonstration at the April 24, 2024 meeting.

The Department of Public Services selected Manor Park/Nature Reserve as the trial area because of its already very naturalized setting, minimal interference for park users and programming, and the areas are far away from houses to help prevent the spread of potential unwanted weeds into residential yards.

FISCAL IMPACT:

Material: \$177 for a custom blend shady area wildflower seed (1,500 sq. ft.)

Labor:

- Approximately 24 man hours for set up
- 8 man hours a month for maintenance of Section 3
- 3 man hours a month for surveillance
- Approximate labor cost July 2024-November 2024 \$5,500

SUSTAINABILITY:

Turf maintenance in the City, both on private and public property, accounts for a significant amount of emissions by gas powered equipment for weekly mowing, weed whipping, edging, blowing and potentially the need for fertilization where applicable.

Birmingham's City Commission, the 2040 Master Plan and the Parks and Recreation Master Plan 2024-2028 wishes to see an overall reduction in the City's need for turf maintenance and recommends naturalizing areas in parks and green spaces where it will not interfere with special events and accessible green space for park users.

DPS currently has multiple established "no-mow" zones and riparian zones which are typically maintained and supplemented with native plantings by a natural area contractor (Stantec). Examples of existing "no-mow" native planting areas and riparian zones can be found at Barnum Park and Quarton Lake Park along the edges of the waterway.

PUBLIC COMMUNICATIONS:

Custom signage at each trial section and by the parking areas to educate the public on the trials and sustainability efforts.

SUMMARY:

DPS installed three trial sections all of which were maintained turf within Manor Park. Each trial section is fenced off and signed appropriately with background info, and additional signage is close to the road to help inform residents and park users of the ongoing trials.

- Section 1 (N side of turf space): ~50' x 10' along woodline of unmowed turf
- Section 2 (N side of turf space): ~50' x 10' of unmowed turf and scattered native wildflower seed to see if anything will take
- Section 3 (W side of turf space): ~50' x 10' of removed turf and native wildflower/seed mix

Maintenance requirements for the wildflower seeding area (section 3) are reasonable, which are mowing when weeds reach 10"-18" down to 4"-6" to prevent them from outcompeting the native seed. Overall watering requirements are minimal, but the heavy rain and flooding events has washed out some of the seeded area so it may need some supplemental seeding in the future.

It will take a few years for this seed mix to properly establish, and then a bi-annual burn is recommended (similar to how DPS treats the no-mow zones in Barnum Park).

ATTACHMENTS:

1. Photos of trial sections
2. Wildflower Seed Distribution
3. Wildflower Maintenance Manual

Photo #1- Park Entrance

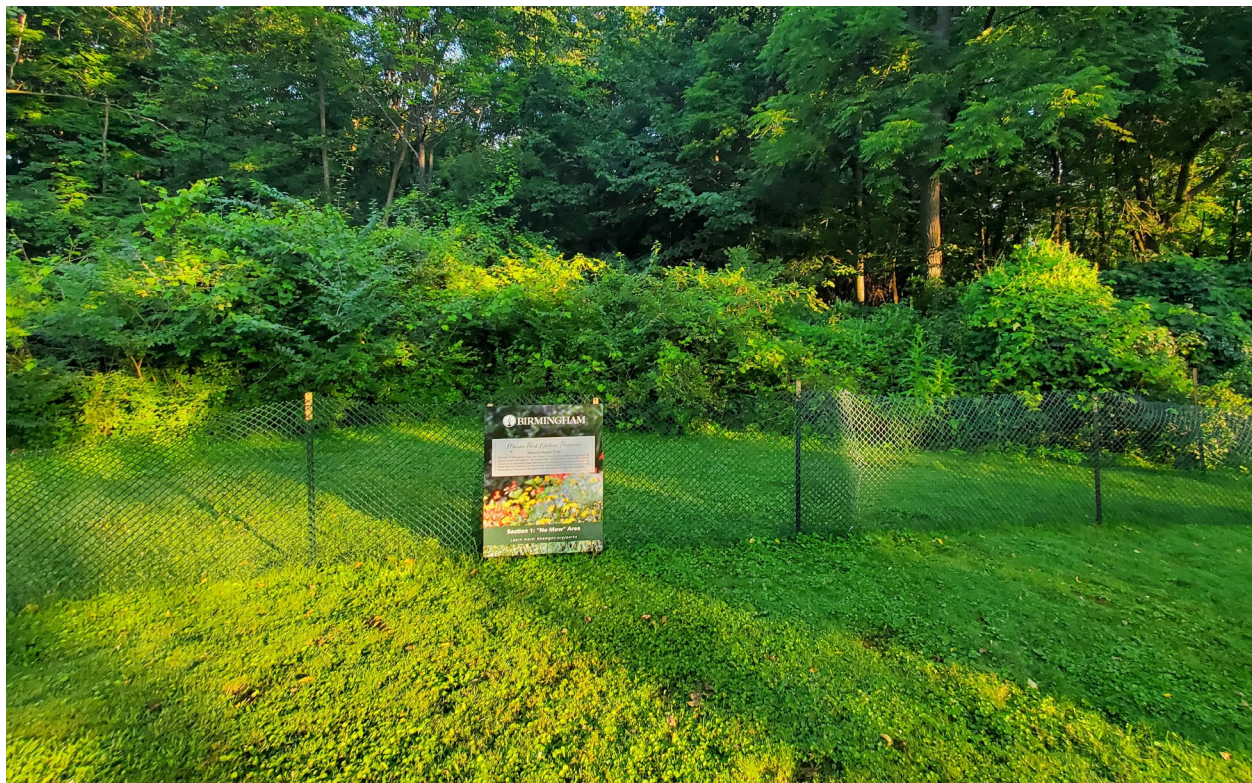


Photo #2- Section 1 No-Mow Area

Photo 3- Section 2 No-Mow Area with Wildflower Seed Distributed

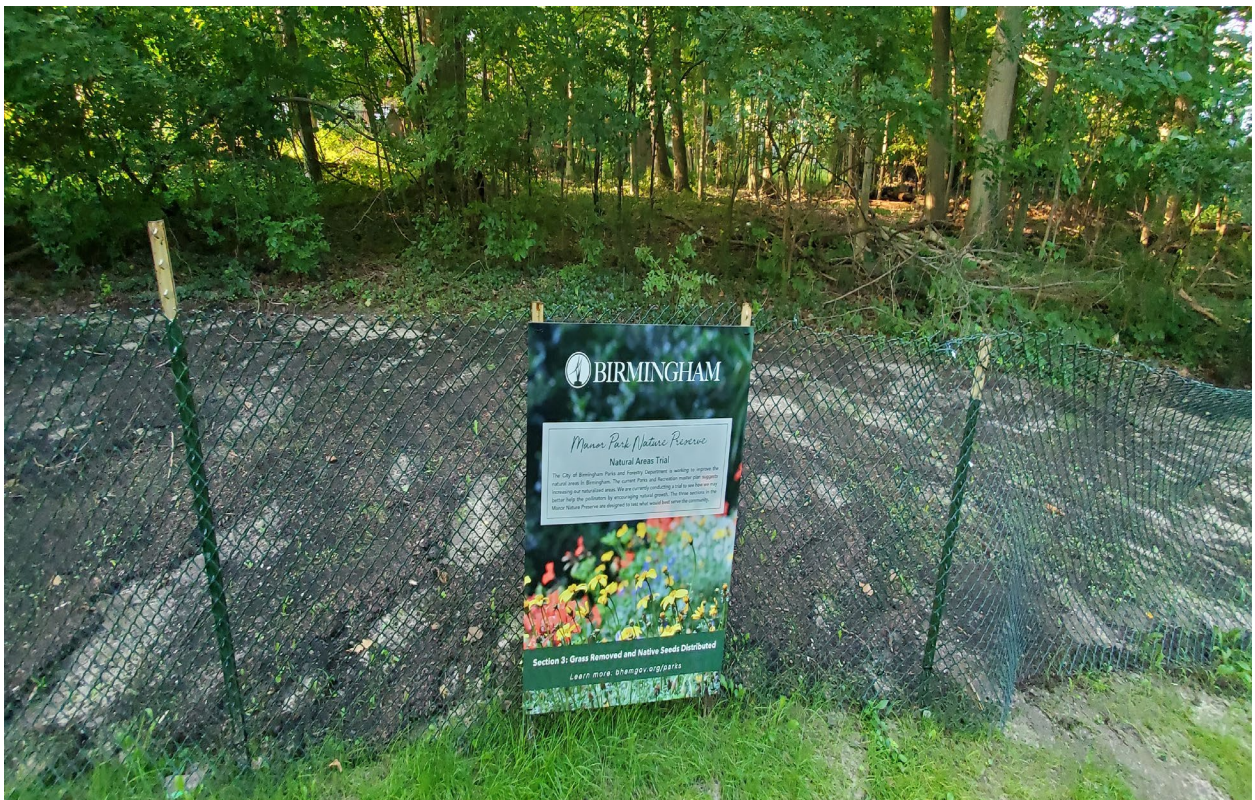


Photo 4- Section 3 Wildflower Seed Mix (with turf removed)

Photo 5- Section 3 Wildflower Seed Mix (with turf removed)



**City of Birmingham - SMW-2024
Prairie WoodlandEdge MixSummary
4/10/2024**

							Hydrology						Tolerance			Soil Type				Bloom Time & Color										
						% by native	Dry	Dry-mesic	Mesic	Wet-mesic	Wet	Emergent	Full Sun	Part	Shade	Clay	Loam	Sand	Muck	April	May	June	July	August	September	October	Legume	Height (ft)	Color	
Graminoids - Scientific Name	Common Name	PLS Oz/A	Total PLS Oz	Seeds per sq. ft.	% by weight	seeds																								
Carex granularis	Meadow Sedge	4.00	0.120	1.47	4.49%	2.33%	-	-	X	X	X	-	X	X	X	C	L	S	M	-	B	B	-	-	-	-	-	2'	g	
Carex grayi	Common Bur Sedge	2.00	0.060	0.06	2.25%	0.09%	-	-	X	X	X	-	-	X	X	C	L	S	M	-	B	B	B	-	-	-	-	3'	g	
Carex vulpinoidea	Fox Sedge	4.00	0.120	9.18	4.49%	14.59%	-	-	X	X	X	X	X	X	-	C	L	S	M	-	-	B	B	-	-	-	-	3'	g	
Elymus hystrix	Bottlebrush Grass	16.00	0.480	2.79	17.98%	4.43%	X	X	X	-	-	-	-	X	X	-	L	S	-	-	-	B	B	B	-	-	-	3'	g	
Elymus riparius	Riverbank Wild Rye	16.00	0.480	2.57	17.98%	4.08%	-	-	X	X	-	-	X	X	X	C	L	S	M	-	-	-	B	B	-	-	-	4'	g	
Elymus villosus	Silky Wild Rye	8.00	0.240	1.01	8.99%	1.60%	-	X	X	X	-	-	-	X	X	X	L	S	-	-	-	-	B	B	B	-	-	3'	g	
Grasses Oz per Acre		50.00		Grasses sds/sq ft	Total	Total																								
Grasses Lbs per Acre		3.13		17.08	56.18%	27.13%																								
Herbaceous Forbs - Scientific Name																														
Asclepias syriaca	Common Milkweed	4.00	0.120	0.37	4.49%	0.58%	X	X	X	X	-	-	X	X	-	C	L	S	M	-	-	B	B	B	-	-	-	3'	pur	
Asclepias tuberosa	Butterfly Milkweed	4.00	0.120	0.39	4.49%	0.63%	X	X	X	-	-	-	X	X	-	-	L	S	-	-	-	O	B	B	B	-	-	2'	org	
Echinacea purpurea	Purple Coneflower	12.00	0.360	1.82	13.48%	2.89%	-	X	X	X	-	-	X	X	-	C	L	S	-	-	-	-	B	B	B	-	-	4'	pur	
Euthamia graminifolia	Grass-leaved Goldenrod	1.00	0.030	8.03	1.12%	12.76%	-	-	X	X	X	X	-	X	X	-	L	S	M	-	-	-	B	B	B	-	-	2'	yel	
Monarda fistulosa	Wild Bergamot	2.00	0.060	3.21	2.25%	5.11%	X	X	X	X	X	-	X	X	-	C	L	S	M	-	-	-	B	B	B	-	-	4'	pur	
Penstemon digitalis	Foxglove Beardtongue	2.00	0.060	5.97	2.25%	9.48%	-	X	X	X	-	-	X	X	-	C	L	S	M	-	-	B	B	-	-	-	-	4'	wht	
Rudbeckia hirta	Black-eyed Susan	8.00	0.240	16.90	8.99%	26.84%	X	X	X	X	-	-	X	X	-	C	L	S	M	-	-	B	B	B	B	B	-	2'	yel	
Solidago juncea	Early Goldenrod	1.00	0.030	6.66	1.12%	10.57%	X	X	X	-	-	-	X	X	-	-	L	S	-	-	-	-	B	B	B	B	-	3'	yel	
Symphyotrichum novae-angliae	New England Aster	1.00	0.030	1.52	1.12%	2.41%	-	-	X	X	X	-	X	X	-	C	L	S	M	-	-	-	B	B	B	-	-	5'	pur	
Zizia aurea	Golden Alexander	4.00	0.120	1.01	4.49%	1.60%	X	X	X	X	X	-	X	X	X	C	L	S	M	-	B	B	B	-	-	-	-	3'	yel	
Forbs Oz per Acre		39.00		Forbs sds/sq ft	Total	Total																								
Forbs Lbs per Acre		2.44		45.88	43.82%	72.87%																								

Woody Shrubs, Vines - Scientific Name

Woodies Oz per Acre	0.00	Woodies sds/sq ft	Total	Total
Woodies Lbs per Acre	0.00	0.00	0.00%	0.00%

Annuals, Temp Nurse Crop, etc.	Common Name	Bulk Oz/A	Bulk PLS LBs	Temp Seeds per sq. ft.
<i>Lolium multiflorum</i>	Annual Rye	80.00	0.150	24.79
<i>Avena sativa</i>	Seed Oats	320.00	0.600	7.35
	Temp Oz per Acre	400.00		Temp sds/sq ft
	Temp Lbs per Acre	25.00		32.14

Total PLS Lbs/Acre 'Natives'	5.56
Total Lbs/Acre 'ALL'	30.56

Total Acres	0.03
Total PLS Lbs 'Natives'	0.17
Total PLS Lbs 'ALL'	0.92

# of Native Grass Species	6
# of Native Forb Species	10
# of Native Forb Species	0
# of Temp Species	2

Mix 'Natives'	weight (lbs)	seeds/sq ft
Total per acre	5.56	62.96
% Forbs	43.82%	72.87%
% Woodyies	0.00%	0.00%
% Grasses	56.18%	27.13%

Mix 'ALL'	weight (lbs)	seeds/sq ft
Total per acre	30.56	95.10
% Forb Spp	7.98%	48.24%
% Woodyies	0.00%	0.00%
% Grass Spp	10.22%	17.96%
% Temp Spp	81.80%	33.80%



Native Connections
3815 N Westnedge Ave
Kalamazoo, MI 49004
www.nativeconnections.net

NOTES: Species availability not guaranteed. Substitutions may be required. All species to be adjusted to 100% PLS (Pure Live Seed) as noted.

GUIDELINES FOR ESTABLISHING A NATIVE PLANTING BY SEED

Successful establishment of a native planting requires proper site preparation, the right plant selection based on the conditions of your site, the best method and time of installation, and a diligent maintenance schedule for the first three years after installation. These guidelines should be helpful in planning and implementing a successful native plant project.

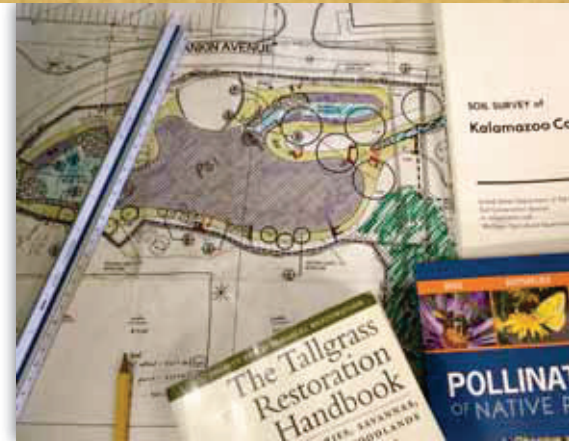
STEP 1: Project Planning & Design

The time you take to properly plan and design your project will pay off and result in a more successful and long lasting native plant establishment which will offer the environmental, economical and aesthetic benefits you are trying to achieve. The tips listed below will be helpful as you plan your project.

Determine the site conditions

- **Soil type:** Look at and feel the soil and determine whether you have sand, loam, clay, or organic soil. Sandy soil is gritty and will not stick together or clod. Loamy soils stick together, but will easily crumble. Clay soil is sticky with little or no grittiness and will form a hard clod that will not easily crumble. Organic soil, or muck, is dark black in color, is frequently mixed with mineral soil (sand, loam or clay) and occurs on former wetlands. Be sure to choose species based on your soil type.
- **Hydrology or Moisture level:** Determine if the site is dry, medium or wet in nature. Does the area puddle and retain water or does water drain quickly after rainfall? Is the site in a low-lying area or upland? Is the site near a river, lake or spring? Choose species that would thrive at your site. Species composition differs greatly between dry prairie, mesic prairie, wet prairie, and wetland habitats.
- **Topography:** Determine the slope of the site. The slope may influence the moisture levels and/or sun exposure. Keep in mind that steeper slopes may limit the methods of installation.
- **Sun exposure:** Be aware of how much sun the area will receive. Most sun-loving plants need at least a half-day of sun. If you have less than a half-day of sun, you need to select plants that tolerate part-sun or shade.
- **Existing vegetation:** The site should be inspected closely by someone familiar with the native and non-native plant species found in the area. If specific native species are present in sufficient numbers, the site may

need to be handled as a restoration project, requiring appropriate methods to protect the existing plants. If the site has invasive species present, prepare a plan for the removal of these species prior to the natives being introduced. This is a critical element that should not be overlooked.



Research typical plant species in the area

It is a good idea to research the history of the land prior to European settlement. Maps and natural community information are available on the Michigan Natural Features Inventory website at <http://mnfi.anr.msu.edu/data/index.cfm>. You should be able to determine the plant community that existed prior to development which would be a good clue as to what plant species will do best on your property. If similar natural areas are present near your site it may be helpful to determine what native species are found there.

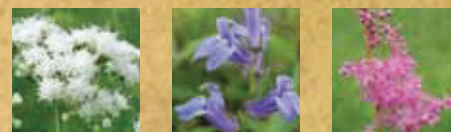
Select proper species

Choose a mix of wildflowers and grasses based on your research. Select species that are suitable for your site based on soil type, hydrology, and sun exposure. This will be critical for the success of your native planting. Add as many species as possible for greater diversity. A well-designed mix will contain flowers that bloom at different times throughout the season, will include warm and cool season grasses for structure and diversity, and will attract a variety of wildlife. Your project size, objectives and budget will help determine the level of seed mix that is appropriate for your site.

Obtaining native seed

- **Local Genotype:** Consider purchasing native seed and plants from local or regional sources (Michigan or Great Lakes). Local genotypes are recommended because they are naturally adapted to the area and preserve our local diversity. Members of the Michigan Native Plant Producers Association (MNPPA) produce and provide native seed and plugs that originate from Michigan. MNPPA members are committed to enhancing the diversity and health of Michigan's unique natural heritage.

PLANTING GUIDELINES *continued*



- **Seeding Rates:** You will need to determine the size of the area, in acres or square feet. This will be very important so that you order a sufficient amount of seed. There are 43,560 square feet per acre. You should order a little more seed just to be safe (perhaps 10%). Seeding rates of grasses should range from 3 to 7 lbs per acre, and forbs should range from ½ to 4 lbs per acre, for a total mix of 6–10 lbs of seed per acre. Seeding rates depend on site conditions, preferred showiness, and budget.
- **Cover Crop:** Since natives are slow to germinate and establish, annual cover crops such as seed oats or annual rye, which germinate quickly, are often used to help stabilize the soil and compete against weeds the first year. Seeding rates of the cover crop range from 10 to 40 lbs per acre. Cover crop also acts as a carrier, making the native seed easier to disperse accurately.
- **Pure Live Seed (PLS):** Native seed tends to be quite bulky or fluffy, and may contain a fair amount of inert material. The germination rates can be quite variable, sometimes as low as 50% or less. For these reasons native seed is often sold on a Pure Live Seed (PLS) basis. This means that enough bulk seed is provided to the purchaser to ensure that the correct amount of viable seed is provided. For example, if a customer orders 10 lbs of a species that is only 50% PLS, 20 bulk lbs of the seed would be provided, and the customer would be charged for the 10 PLS lbs of actual, viable seed. Most suppliers sell native grasses this way, and some also do this for native forbs.

Plan the appropriate timing of installation

Planting can be done in the spring, or as a dormant seeding in late fall or winter. Each has its own advantages and disadvantages. As you think about scheduling installation, keep in mind that you should plan on at least a few months and up to 2 years of preparation before seed installation.

- **Spring seeding:** If planting in spring, native seed should be planted between April 15 and June 15. A spring seeding will generally favor the warm season grass species over the forb species during the first year. Many of the forb seeds that do not germinate the first season will appear the second year.
- **Dormant seeding (late fall – winter):** Dormant seeding is timed so that seeds will not germinate until the following spring. Dormant seeding can be done anytime

when there is no snow on the ground from late-fall to mid-winter (mid October – February). Most people choose to plant mid-October through late November to avoid planting in frozen soil. It can work after the ground freezes if a no-till drill is used to cut into the frozen soil. Planting in the winter may be a good idea in areas that are too wet during the rest of the year, or when areas need to be supplemented with new seed. Dormant seeding is generally more favorable to forb species than to grass species.

Caution: Avoid planting in the summer and early fall (July – September). There is a significant risk of heat and drought during the summer months and you might waste a lot of time and money in seed and installation. Also, resist planting too early in the fall. The soil is warm enough in early-fall for germination to take place, but root growth on the newly sprouted natives is minimal and may not survive the winter. Fall plantings should be delayed until the air and soil temperatures have cooled off — usually after mid-October.

STEP 2: Site Preparation

Arguably the most important step in establishing a successful planting is proper site preparation. One may feel hesitant about delaying the installation, but the site preparation is critical for achieving a successful planting. Many people underestimate the amount of weeds in the seed bank. Eradicating the existing non-native and/or invasive species is vital before installation of the native seeds.

You should plan on preparing your site at least one full growing season before installation, and depending on the species on the site, it may require up to two years of preparation. If this process is not done thoroughly, aggressive non-native species will compete (and may ultimately win) against the native plants you wish to establish.

The appropriate site preparation techniques will be dependent on the desirable and undesirable vegetation that already exist on the site. If you determine there is a significant amount of desirable plant life with relatively few non-native invasive species, you should consider restoring or enhancing the site. Remove unwanted species by pulling, spot herbiciding, or burning, and then inter-seed with native seed. If there is too much undesirable vegetation to make rehabilitation worthwhile, one should consider starting fresh. You will need to proceed by eliminating all existing vegetation by either applying herbicides, smothering, cultivating the area, or a combination of these methods.



Site preparation for wetland mitigation, Cincinnati, OH

Eradicating existing vegetation

- **Herbiciding:** If your site is quite large or if there is little or no native vegetation naturally occurring, careful application of herbicide can be an effective tool for vegetation removal. The number of herbicide treatments will depend on the condition of the site. Agricultural fields of corn or soybeans may only require one or two treatments late-spring, prior to installation. Old fields (fallow or pasture fields) may require several treatments per year for one or two years before installation. All weed species should be eliminated before installation. Use a broad-spectrum, non-persistent glyphosate herbicide.

There are many options and factors to consider when using herbicides. Consult with or hire a licensed commercial applicator and always read and follow the label completely when using herbicides.

- **Smothering:** On small areas, such as portions of your lawn, you can smother and kill the vegetation without the use of chemical herbicides. Cover the vegetation with black landscaping fabric, leaf compost, or grass clippings, and leave in place for an entire growing season.
- **Cultivating:** Cultivation is labor intensive, and often brings up weed seeds, but you can avoid the use of chemicals if you are willing to cultivate the field beginning in spring and continuing through fall. Cultivate every 2–3 weeks at a depth of 4–5 inches using a harrow, springtooth or rototiller to destroy the roots and kill the weeds. Waiting longer than 2–3 weeks will allow perennial weeds to resprout. Plants with deep rooted rhizomes, such as Canada Thistle and Quackgrass may not be completely eliminated using cultivation for a single season, and may require herbicide treatments in conjunction with the cultivation. After most weeds have been eliminated, the cultivation depth should be made shallow for several months prior to seeding, as a firm soil bed is necessary for native establishment.

Converting lawns

If you wish to convert a section of your lawn to prairie or native garden, you could smother the sod for 2–3 months, cut the sod, or treat with herbicide. An effective and practical method for naturalizing a large area of lawn is to treat with a glyphosate herbicide in mid-spring when the grass is actively growing. Repeat herbicide in summer when some grass reemerges and then introduce seed (in late-fall or the next spring) into the dead sod using a native no-till drill. You could hand broadcast the seed if you first go over the dead sod with a dethatcher to bring up some loose soil. Be sure to set the dethatcher deep enough to bring up loose soil.

Preparing the seed bed

A level, firm seed bed that is relatively free of debris is recommended for proper installation. If your soil is soft and loose, it should be packed down with a heavy roller or culti-packer before and after installation. A good test method for adequate soil firmness is to walk over the seed bed and observe your footprints. If your print sinks in more than ¼ or ½ inch, the seed bed is too soft. If trees have been taken out, be sure to level the ruts and remove limbs and roots prior to seeding. This saves time during installation and prevents damage to equipment.

If the area to be seeded doesn't have much vegetation or old crop debris, most native no-till drills can successfully operate without clogging. Old soybean stubble usually presents little problem, however old corn stalk debris can plug the drill.

STEP 3: Installation

The method of installation will depend on the size of the planting, the condition of the soil, and your budget.

Seeding Methods

- **Hand-broadcasting:** For areas less than an acre or two, you can broadcast the seed by hand if the seed bed is prepared correctly. The mixed native seed can simply be put into a bucket and scattered by hand. Since it is challenging to distribute small quantities of native seed over an area, it is recommended to bulk up the seed mix by using a filler material such as cracked corn, sawdust, peat moss, or vermiculite. Mixed thoroughly with the native seed, it will aid in giving you more quantity to distribute over the site. Cover crop seed, such as annual rye or seed oats also aid in “bulking up” the seed, making it more flowable.

PLANTING GUIDELINES *continued*



Hand crank seeders can be used to scatter seed although some of the native grass and forb seeds are quite fluffy and will not flow through the dispersal holes. If you use a hand crank seeder, you may have to continually stir the seed with your hand to keep it flowing through the dispersal openings.

The goal is to distribute the seed evenly. Scatter the seed carefully and be sure not to run out before covering the entire area. A recommended strategy to accurately distribute the seed would be to divide your total seed mix in half and scatter the first half of the seed over the entire area, then scatter the second half of the mix over the area perpendicular to the first pass. If it is too windy, waiting for wind to decrease is recommended.

The seed should immediately be rolled or raked into the top surface of the soil for best results. If the area is too large to rake by hand, use a tractor or truck to pull a light piece of fence or very light drag.

- **Native No-till Drill:** For larger areas, areas with hard ground, or areas with existing vegetation or debris, a native no-till seed drill is recommended. Truax and Great Plains are the primary brands available. No-till drills cause minimal soil disturbance, and do not require the soil to be tilled before planting. These drills plant seed into rows by opening a shallow groove in the soil. A Truax drill has three seed boxes, one for fluffy seeds (most grasses), another box for very small seeds (many forbs), and a third box for the cover crop or large native seeds.

Calibration of the drill is critical and complicated and requires continual monitoring during installation. Drill adjustment for proper depth of seed placement is also vitally important; adjustments to the drill need to be made on a site-by-site basis, and sometimes with differing soil conditions within the same site. You may wish to hire a firm who specializes in native seed drilling. Many seed dollars are wasted and many projects unsuccessful due to improper knowledge of drill operation.

**No-till drill
seed box**



**Prairie
installation**



Seed installation

- **Culti-packer native seeder:** For bare soil, you could use a native culti-packer seeder. A culti-packer seeder firms the seed bed first, drops the seed, and then a roller packs the soil to ensure good seed-to-soil contact. These machines are less common, but are preferable to the no-till drill when planting into bare soils.

Watering

Watering is not necessary after fall plantings. Watering following a spring seeding is not essential either, however, the seeds may benefit from watering during the first 3 to 6 weeks after a spring planting, especially if no rain has fallen for 7–10 days. If watering is practical for your site and you decide to water, you will need to continue to water periodically to keep the soil from drying out completely while plant seedlings are establishing. In a dry spring, a quicker establishment may result with supplemental watering.

STEP 4: Post-Planting Management

Controlling weeds is the biggest priority the first three years after an area has been planted with native seed. The native seed you plant will only grow a few inches the first year; weeds will grow much thicker and taller than the natives and can shade out the native seedlings. Diligent weeding the first three years will greatly reduce the amount of weeds you have on your native establishment. Once the native species mature, they should be able to crowd out the weeds on their own.

First Year

Mowing is the primary tool for controlling weeds the first year. Keep the vegetation mowed to a height of 4–6 inches and mow when the vegetation reaches



10–12 inches. This may require mowing two to three times depending on the amount of rainfall. Mowing keeps the weeds from becoming too tall and shading out the natives and it also prohibits the weeds from setting and dropping new seed into the soil. Stop mowing at the end of the growing season (September). Some additional weed growth at this time of year will help protect the seedlings during their first winter.

Hand pulling weeds generally is not recommended the first year because of the risk of pulling out the seedlings and bringing up new weed seeds to sprout. In general, spraying herbicide on a native planting is discouraged. You can, however, consider spot treating with herbicide the aggressive weeds, such as Canada Thistle or Spotted Knapweed that can become very invasive if allowed to persist. Spot spraying needs to be done very carefully by a person who has experience in the use of herbicides as well as in the identification of all of the plant species present. The proper herbicides and rates depend upon the target species as well as the season of the year.

For some plant species hand-wicking with herbicide may be desirable. Mix up a strong solution of the appropriate herbicide and put the solution in a spray bottle or other non-spill container. Wear rubber gloves and put an absorbent cotton glove over the rubber glove on one hand, carefully saturate the cotton glove, and apply the herbicide to the leaves and stems of the plant. Try not to touch any desirable seedlings. It is imperative to closely monitor the gloves to make sure no tears in the rubber gloves allow the herbicide to contact the skin of the applicator.

Second Year

Weeds will often dominate in the second year as well, so continuing to mow is vital. You should mow the vegetation during the second year to a height of about 8 inches. Mow when vegetation reaches 12–18 inches. Some of the natives may be up and blooming but it is worth sacrificing the flowers at this stage to achieve a more successful native planting in the long term. The natives will not be killed by this mowing.

Hand pulling weeds and spot treating with herbicide may be needed and beneficial during the second year. Common competitive weeds in the second year include Spotted Knapweed, Canada Thistle, Burdock, Wild Parsnip, Sweet Clover, and Queen Anne's Lace. Mowing them when they are in full bloom will set them back and prevent them from setting and dropping seeds.

Burning the second year is not usually recommended; normally there is not enough fuel to sustain a fire and the young plants may be damaged by burning.

Third Year and Beyond

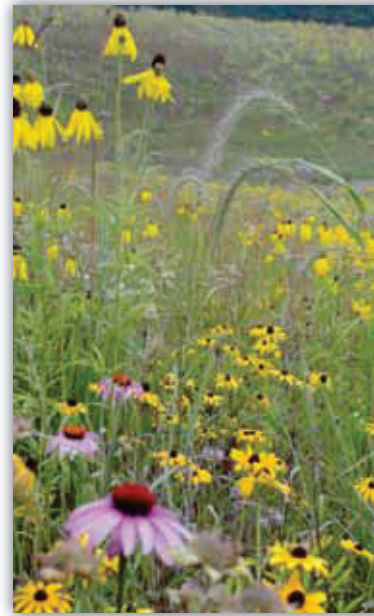
Burning the third year, and on a regular basis in future years, is the most important tool to manage the weeds on your property. If burning doesn't occur, a thatch layer can accumulate on the ground and cause poor growth or cause plants to die out completely. Prescribed burning kills or at least reduces weed growth and also stimulates new growth of the native species.

Spring burns in March or April are most effective for most plantings. Only experienced, trained crews should perform the prescribed burn. Be sure to check with your local fire regulations and obtain the appropriate permits. A wide path (10–15 feet) around the perimeter of the native planting, called a burn lane, acts as a firebreak and should be kept mowed throughout the growing season.

After the third year, burning should take place every one to three years. Consider a burn rotation in which only $\frac{1}{2}$ or $\frac{1}{3}$ of the area is burned each year. This will protect over-wintering butterflies, moths, as well as early nesting birds by leaving vital habitat for them to utilize.

If burning is not allowed in your area or it is not an option for other reasons, annual mowing, although not as effective, can be a good substitute. Mow down close to the surface (6 inches) in early spring (February through April). Note that some ground-nesting grassland birds nest as early as April, so the earlier the better.

Spot treating with herbicide may still be needed if weeds persist, however, once your natives are established, they should require minimum maintenance.



**Well
established
native
vegetation**



**Prescribed
burns are
an effective
tool for weed
management.**