



Parks and Recreation Board Agenda
Department of Public Services
851 South Eton-Conference Room
Tuesday, July 9, 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: June 4, 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 Update
 2. Crestview Pickelball Courts
- VIII. Miscellaneous Communications**
- IX. Reports From Staff**
 1. Portable Toilets Located in City of Birmingham Parks
- X. Items for Next Meeting-August 13, 2024**
 1. National Parks and Recreation Association (NPRA) - Benchmarking
 2. Manor Park Sustainability Planting Demonstration Areas

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

June 4, 2024

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

MEMBERS PRESENT:

Heather Carmona
Susan Collins
Jessica Einstein
Pam Graham
Anne Lipp
Steve Sweeney
Joseph Wrobel

MEMBERS ABSENT:

Sarah Kupczyk

STUDENT REPRESENTATIVES

ABSENT:

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

ADMINISTRATION:

Carrie A. Laird, Parks and Recreation Manager
Connie J. Folk, Ice Arena and Facilities
Superintendent
Brad McNab, Parks and Recreation Assistant
Foreman
Leah Blizinski, City Planner
Andrea Swanson, DPS Office Coordinator

PRESENTERS:

Sue Grissim, Grissim, Metz, Andriese Associates
(GMA)

GUESTS:

Narlu Castellano

ANNOUNCEMENTS, INTRODUCTIONS OF GUESTS & CHAIRPERSON

COMMENTS:

1. In The Park Concert Schedule
2. Ad Hoc Senior/Recreation Center Committee (SCC) - Update

Graham stated the committee continues to meet every Wednesday. Graham stated that the City of Birmingham has hired an owner's rep. to guide the City through the process. The City has also placed Request for Qualifications (RFQ) for architects that are interested in the project. Nine responded and the committee have chosen three.

OPEN TO THE PUBLIC FOR ITEMS NOT ON THE AGENDA:

No items presented.

APPROVAL OF THE MINUTES:

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

Ayes,

Heather Carmona, Susan Collins,
Jessica Einstein, Pam Graham, Anne Lipp,
Steve Sweeney and Joseph Wrobel

Nays,

None

Absent,

Sarah Kupczyk

UNFINISHED BUSINESS #1: Continued Discussion of Pickleball Complaints and Remediation Options

PM Laird shared with the Parks and Recreation Board an update to the Parks and Recreation Board as requested in regards to Govpilot reports received since the end of September 2023 through May 29, 2024 showing the complaints about pickleball.

PM Laird also shared with the Parks and Recreation Board the approved 2024-2025 Budget includes funding allocated for Crestview Park pickleball courts Site Furnishings and Acoustic Fencing, which will be a carry-over from the current budget.

PM Laird stated that the department plans to return with a recommendation for the July 9, 2024 Parks and Recreation Board meeting to proceed with sound mitigation for the pickleball courts.

PM Laird discussed with the Parks and Recreation Board the pickleball webinar that was shared with the Parks and Recreation Board.

Collins asked what other concerns and requests that have come in for future amenities for the pickleball courts.

PM Laird stated the only requests that have come in is sound barriers to reduce the noise.

Lipp asked if there was room do build a new pickleball courts along Woodward, 300 feet from the residence at Poppleton Park. PM Laird stated there would be room.

PM Laird stated she will be reporting back to the Parks and Recreation Board the cost of acoustic fence and to make sure that the questions are answered about absorbing sound, whether that bidders will commit to that.

NEW BUSINESS #1: BOOTH PARK ENTRY PLAZA & TRAIL IMPROVEMENTS

PM Laird shared with the Parks and Recreation Board feedback from city staff, from the plan, the memo from Nick Dupuis, City of Birmingham Planning Director and survey from Engage with a detailed report.

Sue Grissim shared with the Parks and Recreation Board a Booth Park preliminary landscape design plan. The design included paving material, seating options and other amenities.

PM Laird stated that the Booth Park preliminary landscape design plan will be shared with multiple City of Birmingham Boards.

Grissim shared with the Parks and Recreation Board the different styles of the public restrooms and should the restrooms in 3D mode.

The Parks and Recreation Board acknowledge that accessibility, safe, clean and pleasing restroom would be acceptable.

Sweeney likes the custom public restroom vs the pre-fabricated public restroom.

Grissim reviewed the Booth Park Entry Plaza & Trail Improvements Estimated Budget.

MISCELLANEOUS COMMUNICATIONS:

No miscellaneous communication was presented.

REPORTS FROM STAFF:

No reports from staff was presented.

ITEMS FOR NEXT MEETING: July 9, 2024

Portable Restrooms

Chair Carmona stated the next regular meeting will be held on Tuesday, July 9, 2024 at 6:30 pm, at 851 South Eton.

Chair Carmona adjourned the meeting at 8:30pm

Connie J. Folk, Ice Arena and Facilities Superintendent



MEMORANDUM

Department of Public Services

DATE: July 3, 2024

TO: Parks and Recreation Board

FROM: Carrie Laird, Parks & Recreation Manager

SUBJECT: Booth Park Entry Plaza and Trail Improvements Update

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.

The Planning Board provided a courtesy review at their June 26, 2024 ([Agenda](#)) meeting. Overall feedback was very positive, and takeaways include:

- Possibly tie in neighborhood identifiers on signage for example, "Millpond"/business district identifiers such as "Market North". (2040 Plan)
- Consider swapping the food cart area with the restroom area
- 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.
- View into the park is very important

Grissim, Metz Andriese has prepared an updated landscape plan based on recent feedback, attached for your review and comment.

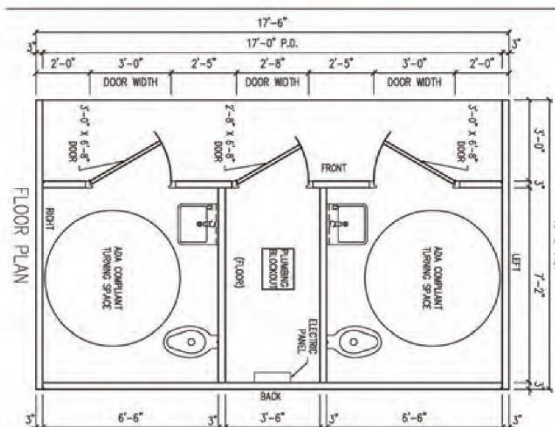
Note Key

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



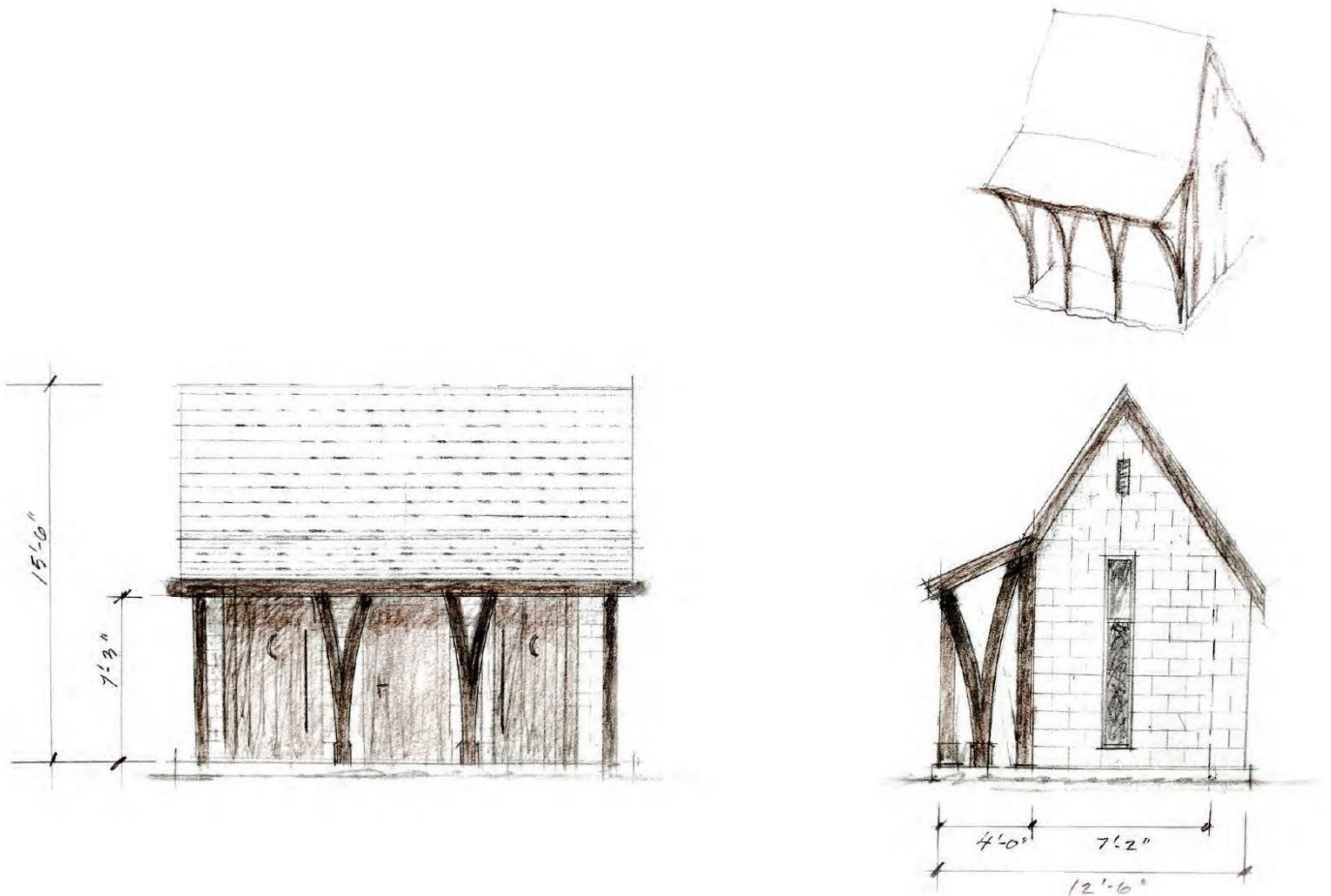
RESTROOM BUILDING PREFABRICATED UNIT

- WALL CONSTRUCTION: FIBER CEMENT SIDING AND/OR DECORATIVE STONE OVER CONCRETE
- ROOFING: STANDING SEAM METAL OR ASPHALT SHINGLE
- WINDOWS: FIXED INSULATED ALUMINUM WITH TEMPERED & FROSTED GLASS; CLERESTORY
- DOORS: PAINTED INSULATED REINFORCED METAL OR STAINED SOLID CORE WOOD
- DOOR HARDWARE: KEYPAD OR WIFI ENABLE LOCKSET OR MANUAL LOCKSET
- LOUVERS: PRE-FINISHED METAL SCREEN
- EXTERIOR LIGHTING: DECORATIVE LED WALL SCONCES; RECESSED LED CAN LIGHT AT SOFFITS
- GUTTERS: PRE FINISHED METAL GUTTERS AND DOWNSPOUTS (IF DEEMED NECESSARY)
- SIDEWALKS: PLAIN CONCRETE OR EXPOSED AGGREGATE CONCRETE
- INTERIOR FLOOR FINISH: SEALED CONCRETE, EPOXY COATING OR FLOOR TILE
- PLUMBING FIXTURES: PENAL GRADE STAINLESS STEEL OR COMMERCIAL GRADE PORCELAIN; AUTOMATIC OPERATION



RESTROOM BUILDING BIRMINGHAM BESPOKE UNIT

- WALL CONSTRUCTION: COLORED CMU BLOCK, SPLIT OR SMOOTH FACE TEXTURE
- ROOFING: STANDING SEAM METAL OR COMPOSITE SLATE TILE
- WINDOWS: FIXED INSULATED ALUMINUM WITH TEMPERED & FROSTED GLASS
- DOORS: INSULATED WOOD CLAD (MATCHED TO THERMO PROTECTED HARD WOOD SIDING)
- DOOR HARDWARE: KEYPAD OR WIFI ENABLE LOCKSET OR MANUAL LOCKSET
- LOUVERS: PRE-FINISHED METAL SCREEN
- EXTERIOR LIGHTING: DECORATIVE LED WALL SCONCES; RECESSED LED CAN LIGHT AT SOFFITS
- GUTTERS: PRE FINISHED METAL GUTTERS AND DOWNSPOUTS (IF DEEMED NECESSARY)
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- INTERIOR FLOOR FINISH: SEALED CONCRETE, EPOXY COATING OR FLOOR TILE
- PLUMBING FIXTURES: PENAL GRADE STAINLESS STEEL OR COMMERCIAL GRADE PORCELAIN; AUTOMATIC OPERATION



BOOTH PARK

BIRMINGHAM, MICHIGAN

PRELIMINARY DESIGN

06.26.2024

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
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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

Ex. 30A, 240V, 1-PH, FUSED DISCONNECT, FEED IRRIGATION CONTROLLERS

Ex. 200A, 240V, 1-PH, FUSED DISCONNECT, FEEDS PANEL LP-A, 120/240V

EX. WIRE WAY

Ex. (2) RAINBIRD IRRIGATION COTROLLER BOXES

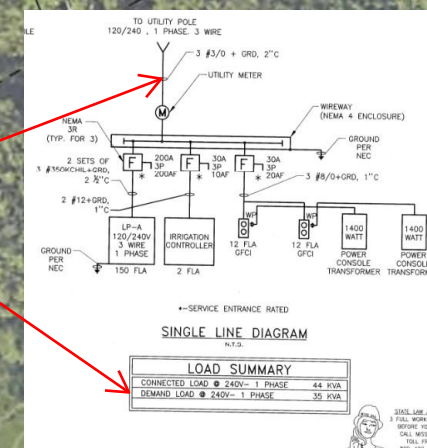
Ex. DTE METER & SOCKET

ED DISCONNECT, FEEDS RECEPTACLES FOR POWER CONSOLE TRANSFORMERS, NEAR NORTH PLAY AREA WATER GARDEN PATH

Existing Playground

EX. RECEPTACLES FOR (2) 1400W POWER CONSOLE TRANSFORMERS

Existing Playground

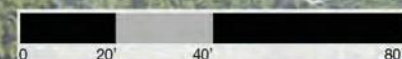


Demand load rated at 146A, service conductors rated for 200A, designed as true 200A service, only about 40A of load available on existing service.

New (3") Sch40 Conduit only run for future 200A EV-Sub Panel - (4) 40A Lv-2 Chargers

EX. 200A M.C.B., 240V, 1PH PANELBOARD, LP-A, FED FROM 200A DISCONNECT

Future Elec. Equip. Rack with 200A Panelboard for EV Charging



Booth Park
Birmingham, Michigan

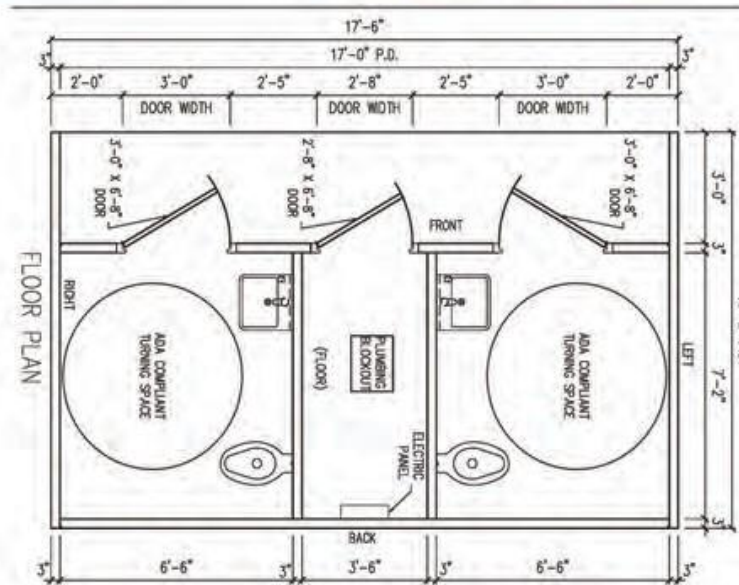
Parking Spaces for future EV Charging Stations

Preliminary Design
Landscape Plan
05.07.2024

**GRISSIM
METZ
ANDRIESE**

HRC
PETERHANS, REA + ROMAN · LLC

A small, single-story building with a gabled roof, light-colored siding, and a stone base. It has two dark doors and a small window. The building is surrounded by trees and a gravel area.



Tankless Electric Water Heater
\$250.00

Mini Split-Dual Climate Zone
\$4,320.00



Dual Food Truck Receptacles
Pedestal Mount
\$584.23



Food Truck Receptacles
Pedestal Mount
\$324.29



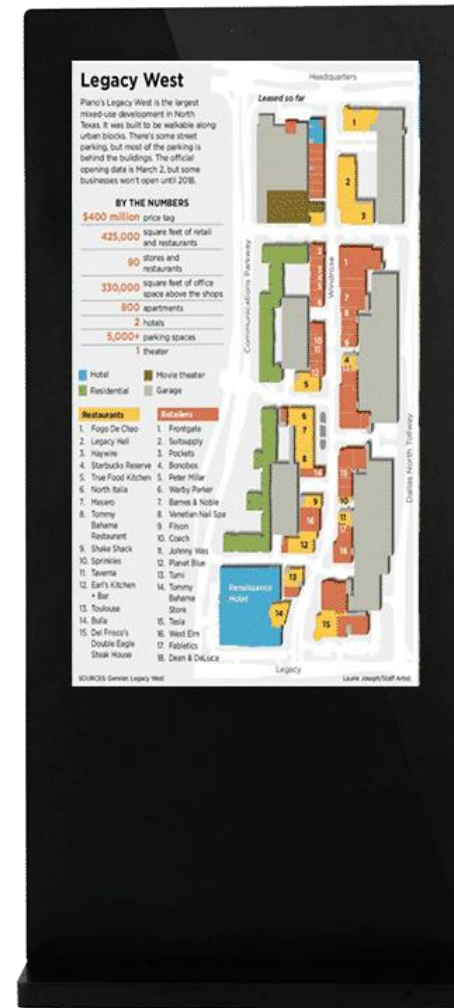
Dual Food Truck Receptacles
Wall Mount
\$209.99

RV Power Pedestal for Food Truck
Connections – Multiple Connection
Receptacles All-In-One



Outdoor Waterproof Digital Kiosk By Displays2Go

Screen Size – Price :
65” – 6,467.99
75” – 9,599.99



Valencia: Outdoor Portrait Kiosk 2 Sided

Screen Size – Price :
55” – \$8,840.80
65” – \$10,662.00



Peerless-AV KOP55XHB - Smart City Black/Silver

55” Single Sided – \$ 8,840.80
55” Dual Sided – \$14,399.00



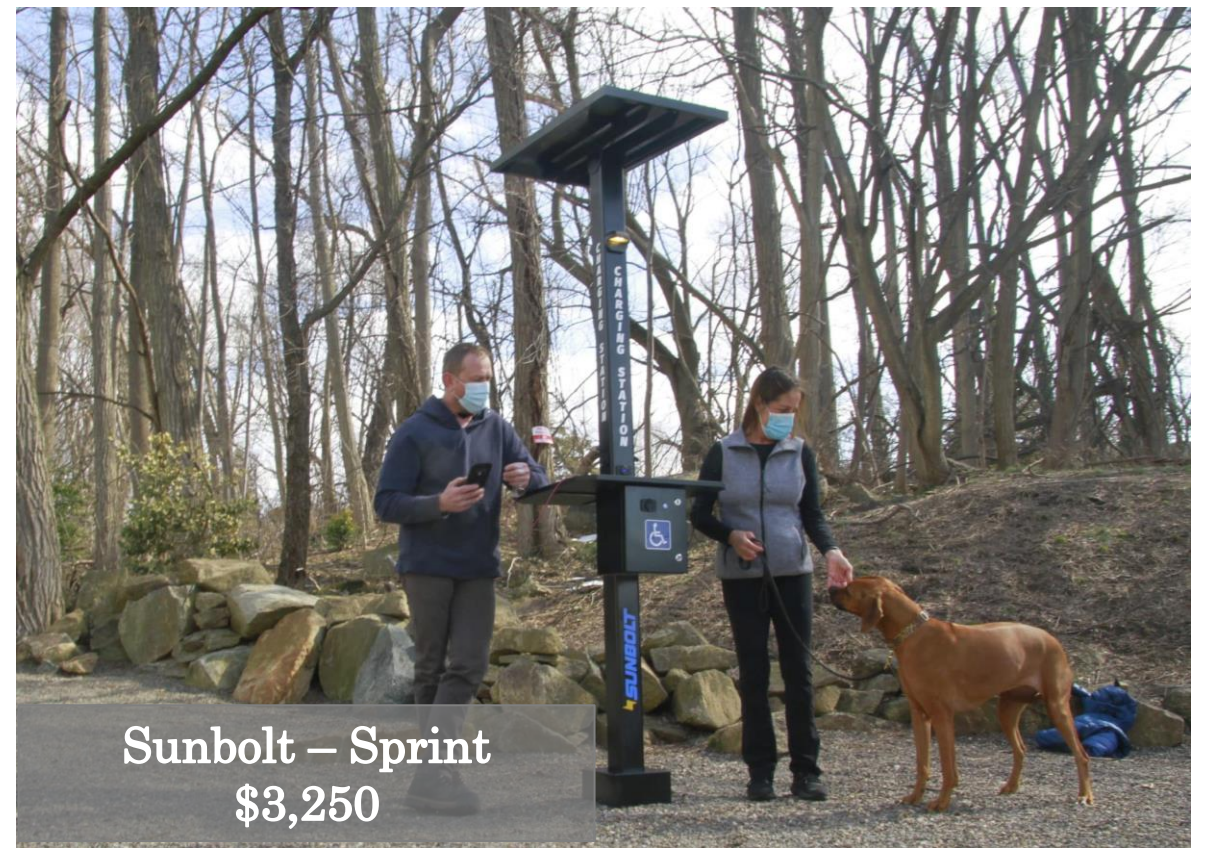
EnerFusion – Lyra

\$4,485.00



EnerFusion – Solstice 2.0

\$3,565



Sunbolt – Sprint

\$3,250



SELS – Solar Charging
& Connectivity Station
~Price Pending~



Sunbolt – Dash

\$4,950.00



Sunbolt – CampusXL
\$16,950



EnerFusion – Aurora Solar Canopy
\$4,400



Sunbolt – Momentum
\$15,450



Sunbolt – Pavilion Carousel
\$9,500



EnerFusion – Lynx
\$11,985



Enerfusion – Aurora Solar Picnic
\$10,965



Aurora - Solar Trellis
\$6,600.00



Luminis – Inline 39”
\$1,040

Sonneman – Shear LED Double Bollard
\$374



Luminis – Inline 24”
\$965



Lampefeber – Cyborg
\$695.00



Lampefeber – Cyborg
\$695.00



Bel-Lighting – Strato 8”
\$348.12



Sonneman– Triform Compact LED Bollard
\$467



Bel-Lighting – Strato 8”
\$348.12

NNC – Bollard Light
\$288



Sonneman– Triform Compact
LED Bollard
\$695



Lumengy – Paver Light 3"x9"
1 x \$79.99



Lumengy – Paver Light 4"x4"
1 x \$54.99



MEMORANDUM

Department of Public Services

DATE: July 3, 2024

TO: Parks and Recreation Board

FROM: Carrie Laird, Parks & Recreation Manager

SUBJECT: Sound Barrier for Crestview Pickleball Courts

At the June 4, 2024 Parks and Recreation Board meeting, the Board reviewed several items related to the Crestview Pickleball Courts including complaints received including noise, parking, and enforcement of rules and regulations among others. Additionally, discussion about planning for the courts and operational procedures such as hours of operation, Pickleball rules, and reservations of the courts has occurred over multiple meetings. The Board recently viewed a webinar recording titled "Pickleball-the Sound & Fury". At the June 4, 2024 meeting, the Board requested to review reservation numbers at Crestview which is attached to this report.

Noise has been a frequent and viable complaint, especially in close proximity to the courts, on the southern end. We learned from the webinar that sound travels in the direction of the hit, or north to south, and vice versa. The department requested quotes for the supply and installation (as an alternate) of a sound barrier that will attached to the existing 12 foot chain link fence located on the southern end of the courts. The request for quotes was posted to the city's procurement website, MITN, appended to this report.

Five quotes were received and are displayed in a table attached to this report:

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. 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. The department plans to add minimal landscaping buffers on the east side of the courts. The north and west sides will remain open at this time, as the closest home to the north is over 400 feet and Southfield Rd. is to the west.

The approved 2024-2025 Budget includes funding allocated for Crestview Park Pickleball Courts Site Furnishings and Acoustic Fencing.

Attachments:

- Bid tabulation table
- Reservation report
- Request for Quotes
- Vendor bid submittals

SUGGESTED BOARD ACTION:

To purchase Option 1, BBC EXT R 2 Classic, with installation, from O'Neill Engineered Systems for a total cost not to exceed \$37,815.00

OR,

To purchase Option 2, VIVID BBC 2", with installation, from O'Neill Engineered Systems for a total cost not to exceed \$46,386.00

Sound Barrier for Pickleball Courts Bid Tabulation

Company	Holzberg Communications, Inc	O'Neill Engineered Systems	O'Neill Engineered Systems	Kijero, LLC	Morgan Ingland, LLC
Product	Acoustical Surfaces, Inc.	BBC EXT R 2 Classic	VIVID BBC 2"	B-10 R Noise Barrier Panels	BBC-EXT-R 2" Acoustical Quilted Curtain
Product Guarantee	Yes	Yes	Yes	None submitted	None submitted
Warranty	1 year warranty/ designed for 10+ years	1 year warranty/ life expectancy 5- 10+ years	1 year warranty/ life expectancy 5- 10+ years	None submitted	1 year
Product Cost:	\$27,284.00	\$24,979.00	\$33,550.00	\$29,500.00	\$24,247.63
Installation	N/A	\$12,836.00	\$12,836.00	\$35,000.00	N/A
Total:	\$27,284.00	\$37,815.00	\$46,386.00	\$64,500.00	\$24,247.63

Facility Demographics - Summary Report

Rental Dates: 1/1/2024 - 7/26/2024

07/03/2024 11:18 AM

Total Rentals	
Rentals	1,928
Facility Categories	
Parks	1,928
Room Categories	
Pickleball	1,920
Soccer Field	8
Facilities	
Crestview Park	1,928
Rooms	
Crestview Park - Pickleball #1	365
Crestview Park - Pickleball #2	298
Crestview Park - Pickleball #3	319
Crestview Park - Pickleball #4	304
Crestview Park - Pickleball #5	270
Crestview Park - Pickleball #6	364
Crestview Park - Soccer Field	8
Use Types	
Pickleball Court	1,928
Municipalities	
City of Birmingham	1,928
Residency	
Non-Resident	
Resident	1,928



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Quotes for **"Pickleball Sound Barrier"**, may be submitted online, emailed to claird@bhamgov.org, by July 2, 2024

The City of Birmingham, Michigan is accepting quotes from qualified professional firms to supply a sound absorbing barrier to be attached to an existing 12 ft fence. This supply of product and delivery must be in accordance with the specifications contained in the Request For Quotes (RFQ)

The RFQ, including the Specifications, may be obtained electronically through the Michigan Inter-governmental Trade Network (MITN), accessed at from Bidnet Direct at <https://www.bidnetdirect.com/mitn> or at the City of Birmingham, 851 S. Eton, Birmingham, Michigan, ATTN: Carrie Laird

Submitted to MITN: June 25, 2024

Deadline for Submissions: **July 2, 2024 2:00pm**

Contact Person: Carrie Laird
851 S. Eton St.
Birmingham, MI 48009
Phone: 248-530-1714
Email: claird@bhamgov.org



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Contents

SPECIFICATIONS OF PRODUCT AND DELIVERY	3
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SPECIFICATIONS OF PRODUCT AND DELIVERY

The Vendor shall perform the following services in accordance with the requirements as defined and noted herein:

1. The selected Vendor shall be responsible for the delivery of all materials in a safe and legal manner.
2. The Vendor will deliver the following product to Department of Public Services, 851 S. Eton, Birmingham, MI 48009.
3. In addition to any express warranties set forth in the Vendor's quotation, any statutory warranties or any warranties implied by law, Vendor expressly represents and warrants to City the Product(s) provided under the order shall (a) strictly conform to and/or operate in accordance with the applicable specifications and end-users' reasonable expectations, (b) be merchantable, free from defects in design, material and workmanship and shall be new and of highest quality; (c) be fit for the purpose for which they are intended and safe for any use that is consistent with the applicable specifications or that is reasonably foreseeable; and (d) be free and clear of all liens, claims or other encumbrances, and conveyed to City with good title; (e) conform to all industry standards and all applicable laws.

Sound Absorbing Product/Barrier

- The City desires a sound absorbing barrier that will attach to a 12 ft. existing fence on the southern end only of the Crestview Park Pickleball Courts in the City of Birmingham (diagram attached).
- Vendor to recommend the appropriate barrier to attach to an existing fence, based upon manufacturer's installation protocols. Installation instructions must be provided with Vendor's cost proposal.
- Vendor to provide evidence and a guarantee that the product they are proposing will absorb and reduce sound.
- The nearest residence to the Pickleball Courts is on the South end, approximately 90 ft away from the edge of the Pickleball Courts. Vendor to provide a demonstration of the barrier's ability to reduce sound at this distance including any diagrams and or sketches indicating how the sound is reduced or absorbed.
- Vendor to provide the appropriate length of the product or combination of products to achieve the desired outcome of reducing the sound along the southern end of the courts.
- As an alternate, Vendor may provide a cost for installation if able to do so. If not, label as N/A on the cost proposal.

Limited Warranty

1. Vendor warrants to City that from the date of shipment of the sound barrier that such will be free from material defects in material and workmanship and will warranty the product for a period of time. Vendor to submit length of warranty with the cost proposal.
2. Vendor shall not be liable for a breach of the warranty unless the City gives written notice of the defect, reasonably described to Vendor within thirty (30) days of the time when City discovers or ought to have discovered the defect. Vendor will have twenty-one (21) days to replace or repair the product.

ATTACHMENT B - BIDDER'S AGREEMENT
Sound Barrier for Pickleball Courts

In submitting this quote, as herein described, the Vendor agrees that:

1. They have carefully examined the specifications and terms of the Request for Quotes and all other provisions of this document and understand the meaning, intent, and requirement of it.
2. They will furnish the item or items in the time specified in conformance with the specifications and conditions contained therein for the price quoted by the proponent on this proposal.

PREPARED BY
(Print Name)

DATE

TITLE

DATE

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

COMPANY

ADDRESS

PHONE

NAME OF PARENT COMPANY

PHONE

ADDRESS

ATTACHMENT C - COST PROPOSAL

Sound Barrier for Pickleball Courts

In order for the bid to be considered valid, this form must be completed in its entirety. The cost for the product and delivery as stated in the Request for Quotes documents is as follows:

COST PROPOSAL Sound Barrier for Pickleball Courts		
ITEM	QUANTITY	TOTAL AMOUNT
Sound Barrier Product (provide name below) _____		\$ _____
Delivery (if additional)		\$ _____
Product Guarantee to absorb sound If yes, please describe below:		Circle: YES or NO
Warranty: please describe below:		
ALTERNATE		
Installation (if applicable)		\$ _____
GRAND TOTAL		\$ _____

Firm Name _____

ATTACHMENT D - IRAN SANCTIONS ACT VENDOR CERTIFICATION FORM
Sound Barrier for Pickleball Courts

Pursuant to Michigan Law and the Iran Economic Sanction Act, 2012 PA 517 ("Act"), prior to the City accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must certify that it is not an "Iran Linked Business", as defined by the Act.

By completing this form, the Vendor certifies that it is not an "Iran Linked Business", as defined by the Act and is in full compliance with all provisions of the Act and is legally eligible to submit a bid for consideration by the City.

PREPARED BY
(Print Name)

DATE

TITLE

DATE

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

COMPANY

ADDRESS

PHONE

NAME OF PARENT COMPANY

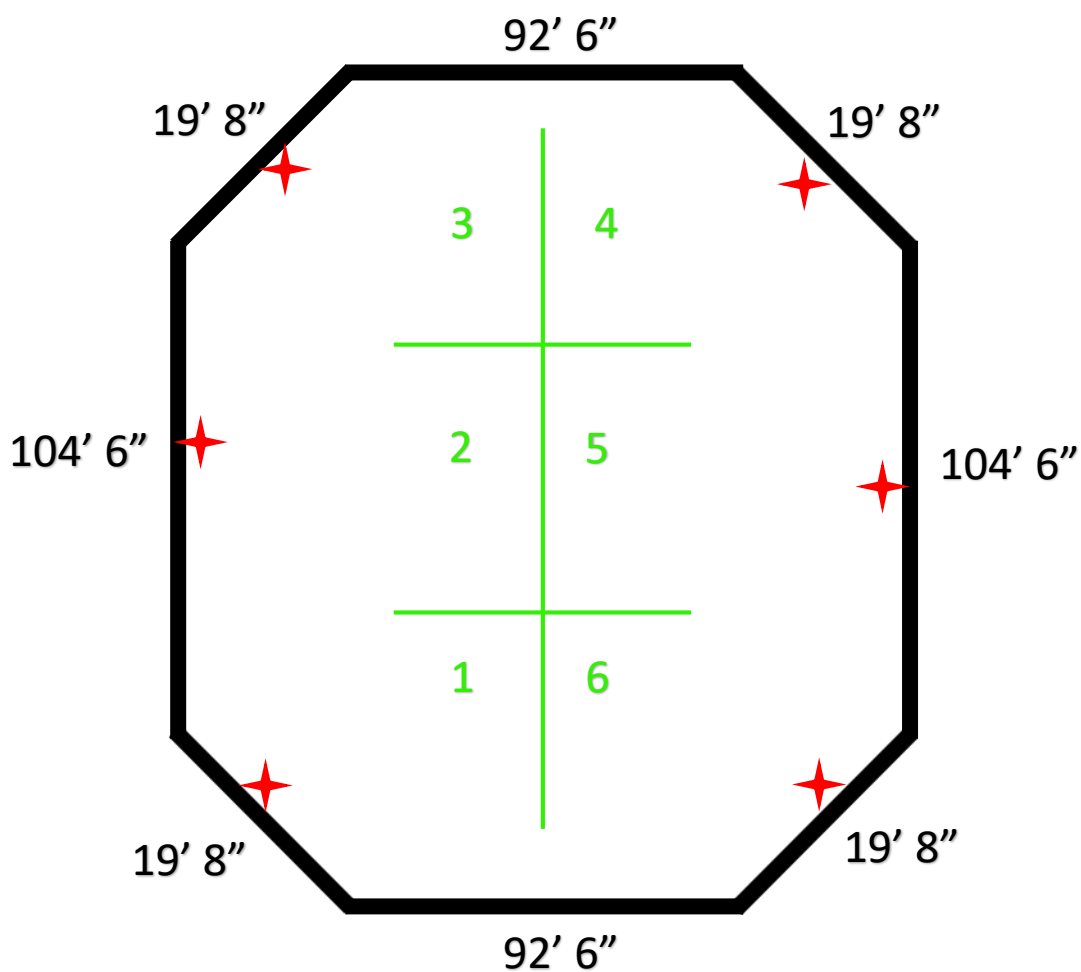
PHONE

ADDRESS

TAXPAYER I.D.#



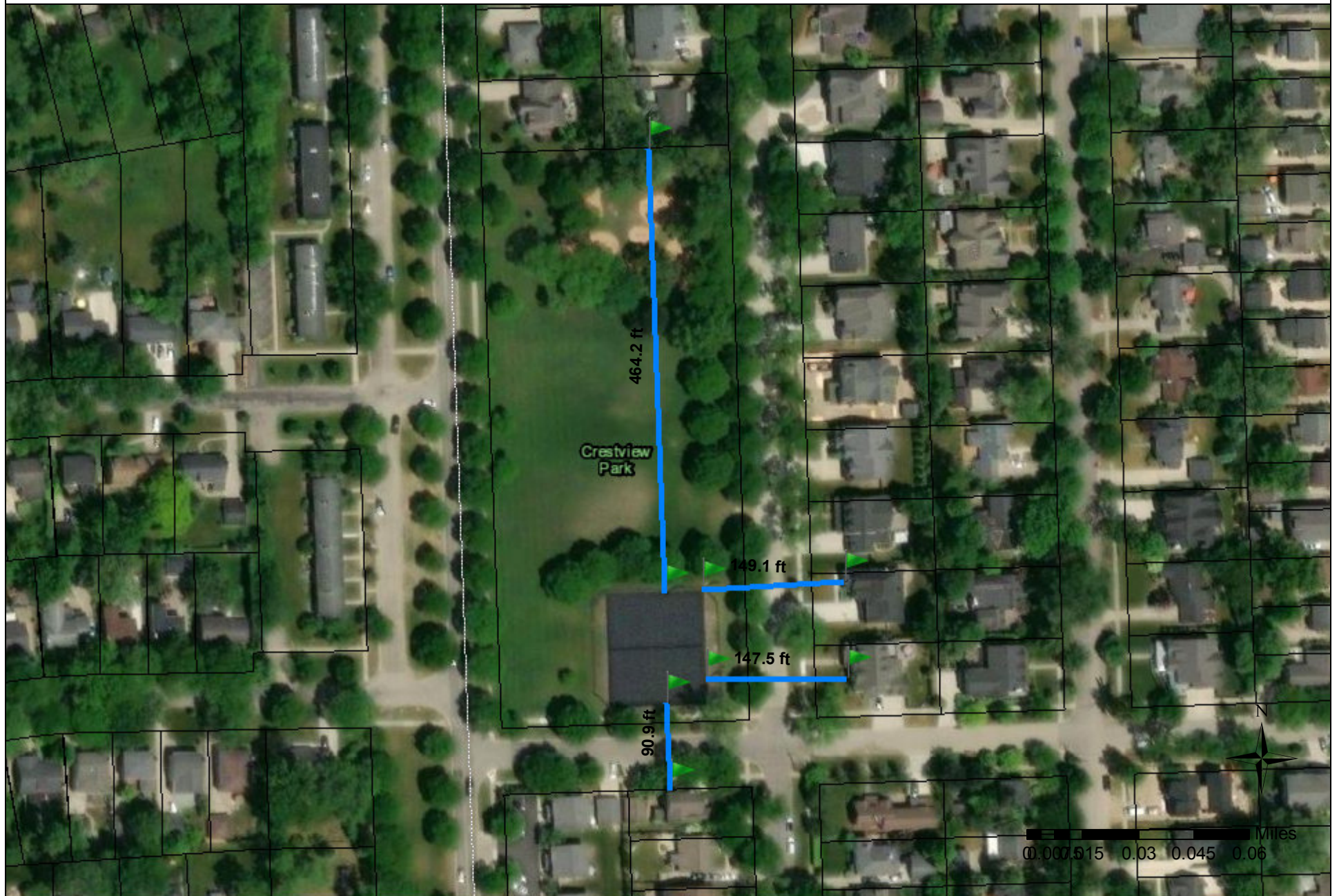
Southlawn



Shipman

★ = 12' height

Distance to nearby residences



Holzberg Communications



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Quotes for **"Pickleball Sound Barrier"**, may be submitted online, emailed to claird@bhamgov.org, by July 2, 2024

The City of Birmingham, Michigan is accepting quotes from qualified professional firms to supply a sound absorbing barrier to be attached to an existing 12 ft fence. This supply of product and delivery must be in accordance with the specifications contained in the Request For Quotes (RFQ)

The RFQ, including the Specifications, may be obtained electronically through the Michigan Inter-governmental Trade Network (MITN), accessed at from Bidnet Direct at <https://www.bidnetdirect.com/mitn> or at the City of Birmingham, 851 S. Eton, Birmingham, Michigan, ATTN: Carrie Laird

Submitted to MITN: June 25, 2024

Deadline for Submissions: **July 2, 2024 2:00pm**

Contact Person: Carrie Laird
851 S. Eton St.
Birmingham, MI 48009
Phone: 248-530-1714
Email: claird@bhamgov.org



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

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SPECIFICATIONS OF PRODUCT AND DELIVERY

The Vendor shall perform the following services in accordance with the requirements as defined and noted herein:

1. The selected Vendor shall be responsible for the delivery of all materials in a safe and legal manner.
2. The Vendor will deliver the following product to Department of Public Services, 851 S. Eton, Birmingham, MI 48009.
3. In addition to any express warranties set forth in the Vendor's quotation, any statutory warranties or any warranties implied by law, Vendor expressly represents and warrants to City the Product(s) provided under the order shall (a) strictly conform to and/or operate in accordance with the applicable specifications and end-users' reasonable expectations, (b) be merchantable, free from defects in design, material and workmanship and shall be new and of highest quality; (c) be fit for the purpose for which they are intended and safe for any use that is consistent with the applicable specifications or that is reasonably foreseeable; and (d) be free and clear of all liens, claims or other encumbrances, and conveyed to City with good title; (e) conform to all industry standards and all applicable laws.

Sound Absorbing Product/Barrier

- The City desires a sound absorbing barrier that will attach to a 12 ft. existing fence on the southern end only of the Crestview Park Pickleball Courts in the City of Birmingham (diagram attached).
- Vendor to recommend the appropriate barrier to attach to an existing fence, based upon manufacturer's installation protocols. Installation instructions must be provided with Vendor's cost proposal.
- Vendor to provide evidence and a guarantee that the product they are proposing will absorb and reduce sound.
- The nearest residence to the Pickleball Courts is on the South end, approximately 90 ft away from the edge of the Pickleball Courts. Vendor to provide a demonstration of the barrier's ability to reduce sound at this distance including any diagrams and or sketches indicating how the sound is reduced or absorbed.
- Vendor to provide the appropriate length of the product or combination of products to achieve the desired outcome of reducing the sound along the southern end of the courts.
- As an alternate, Vendor may provide a cost for installation if able to do so. If not, label as N/A on the cost proposal.

Limited Warranty

1. Vendor warrants to City that from the date of shipment of the sound barrier that such will be free from material defects in material and workmanship and will warranty the product for a period of time. Vendor to submit length of warranty with the cost proposal.
2. Vendor shall not be liable for a breach of the warranty unless the City gives written notice of the defect, reasonably described to Vendor within thirty (30) days of the time when City discovers or ought to have discovered the defect. Vendor will have twenty-one (21) days to replace or repair the product.

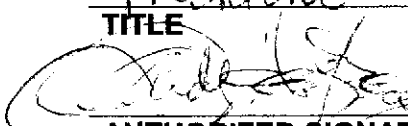
ATTACHMENT B - BIDDER'S AGREEMENT
Sound Barrier for Pickleball Courts

In submitting this quote, as herein described, the Vendor agrees that:

1. They have carefully examined the specifications and terms of the Request for Quotes and all other provisions of this document and understand the meaning, intent, and requirement of it.
2. They will furnish the item or items in the time specified in conformance with the specifications and conditions contained therein for the price quoted by the proponent on this proposal.

Andy Holzberg
PREPARED BY (Print Name) 7-1-24
DATE

President
TITLE 7-1-24
DATE


AUTHORIZED SIGNATURE holzberg@junc.com
E-MAIL ADDRESS

Holzberg Communications, Inc.
COMPANY

Po Box 322
Totowa, NJ 07511
ADDRESS 800-654-9550
PHONE

Self
NAME OF PARENT COMPANY 800-654-9550
PHONE

Above
ADDRESS

ATTACHMENT C - COST PROPOSAL

Sound Barrier for Pickleball Courts

In order for the bid to be considered valid, this form must be completed in its entirety. The cost for the product and delivery as stated in the Request for Quotes documents is as follows:

COST PROPOSAL Sound Barrier for Pickleball Courts		
ITEM	QUANTITY	TOTAL AMOUNT
Sound Barrier Product (provide name below) <u>Acoustical Surfaces, Inc.</u>	①	\$ <u>25,989.00</u>
Delivery (if additional)		\$ <u>1,295.00</u>
Product Guarantee to absorb sound If yes, please describe below: <i>Our sound barrier product absorbs and blocks sound. Spec sheets attached.</i>		Circle: ☒ YES or NO
Warranty: please describe below: <i>Warranty statement attached. This sound barrier is designed engineered for 10+ years. Warranty is 1 year.</i>		
ALTERNATE		
Installation (if applicable)		\$ _____
GRAND TOTAL		\$ _____

Firm Name Holzberg Communications, Inc.

ATTACHMENT D - IRAN SANCTIONS ACT VENDOR CERTIFICATION FORM
Sound Barrier for Pickleball Courts

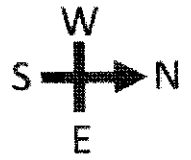
Pursuant to Michigan Law and the Iran Economic Sanction Act, 2012 PA 517 ("Act"), prior to the City accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must certify that it is not an "Iran Linked Business", as defined by the Act.

By completing this form, the Vendor certifies that it is not an "Iran Linked Business", as defined by the Act and is in full compliance with all provisions of the Act and is legally eligible to submit a bid for consideration by the City.

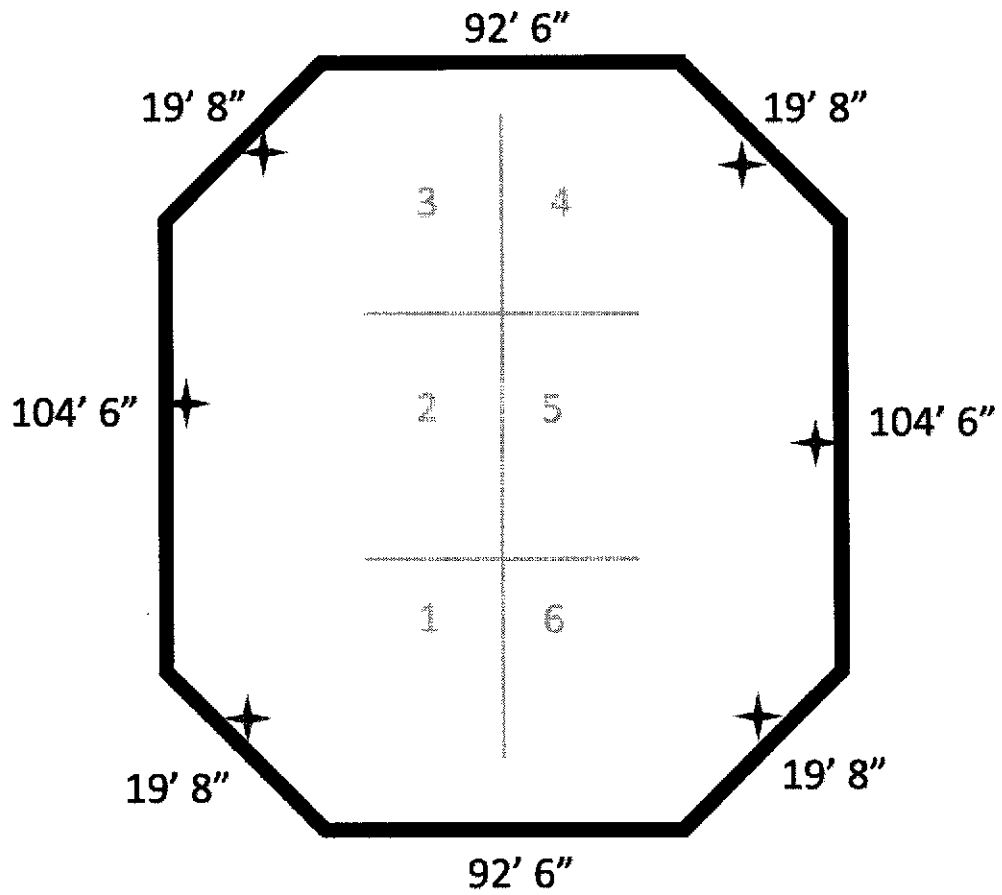
<u>Andy Holzberg</u>	<u>7-1-24</u>
PREPARED BY (Print Name)	DATE
<u>President</u>	<u>7-1-24</u>
TITLE	DATE
	<u>holzberg@junc.com</u>
AUTHORIZED SIGNATURE	E-MAIL ADDRESS
<u>Holzberg Communications, Inc.</u>	
COMPANY	
<u>PO Box 322</u>	<u>800-654-9550</u>
<u>Totowa, NJ 07511</u>	
ADDRESS	PHONE
<u>Self</u>	<u>800-654-9550</u>
NAME OF PARENT COMPANY	PHONE
<u>Above</u>	
ADDRESS	
<u>22-2864676</u>	
TAXPAYER I.D.#	

Distance to nearby residences



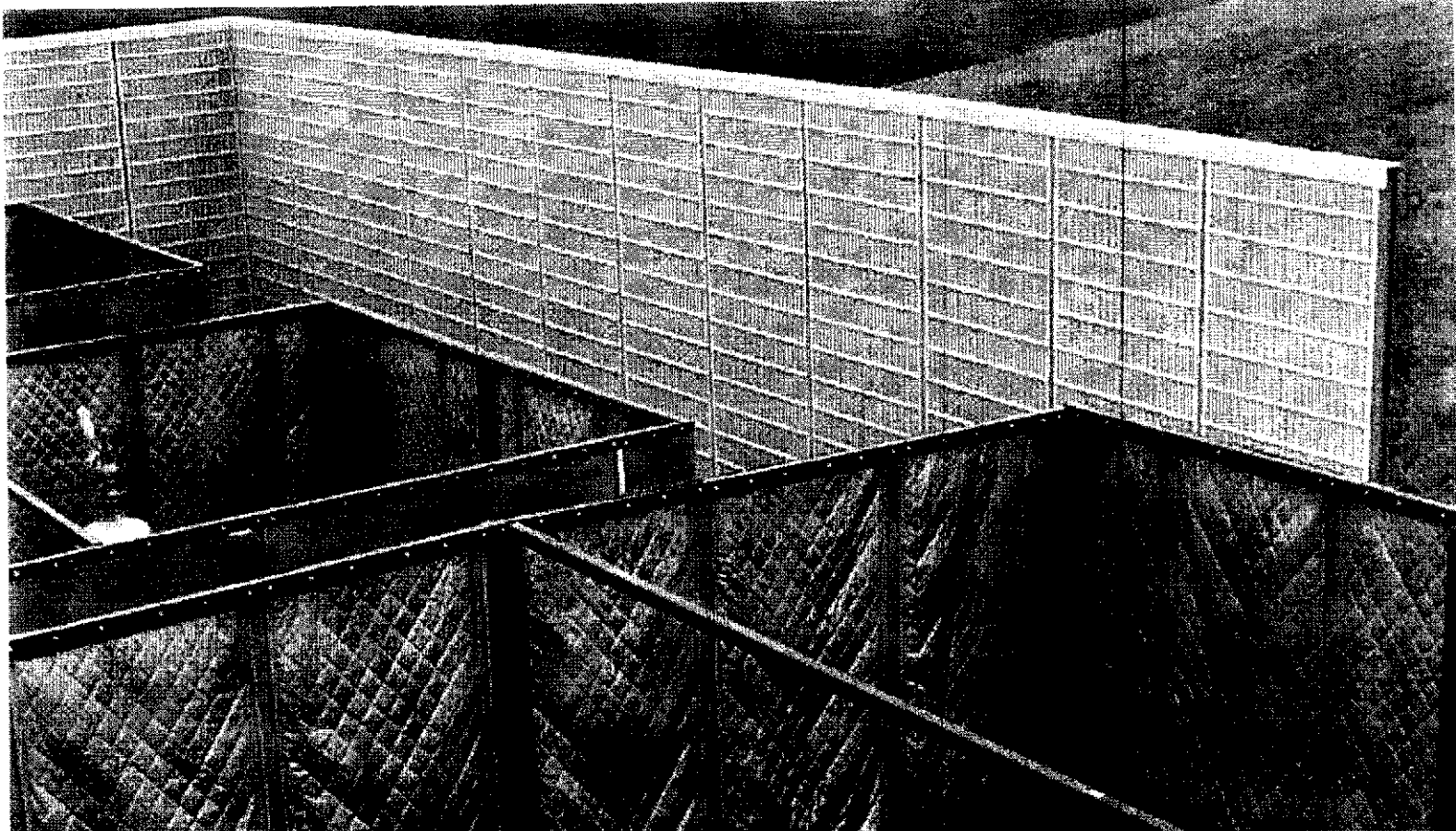


Southlawn



Shipman

✦ = 12' height

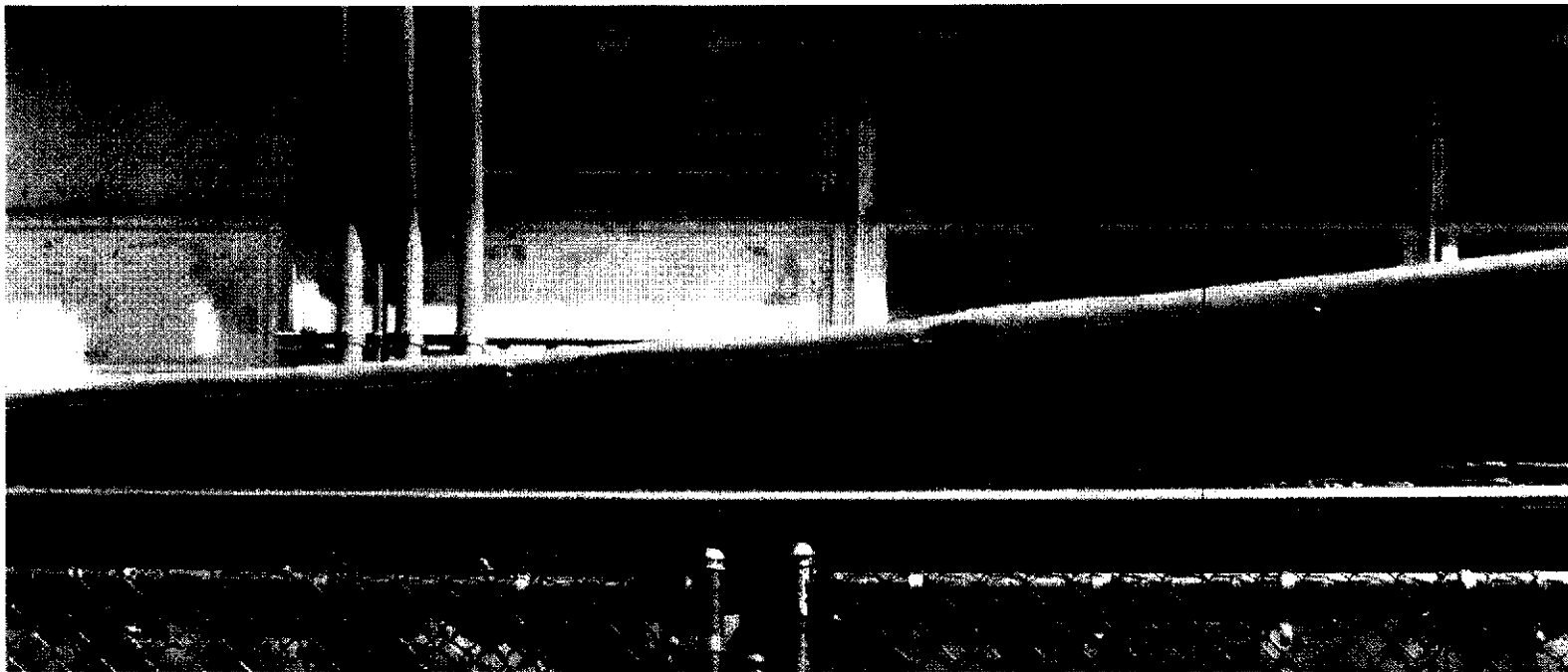


EXTERIOR GRADE NOISE CONTROL

STOP NOISETM

ACOUSTICAL
SURFACES INC.

123 Columbia Court North, Chaska, MN 55318
P: 800.854.2948 • W: www.acousticalsurfaces.com • E: sales@acousticalsurfaces.com



BBC-EXT-R & BBC-EXT-R-2" PERMANENT STYLE

Most Durable – Long-term Sound Curtains

STEMME
Acoustic Science Technology
for construction and industrial noise control
advised with a proven scientific method and
proven results. We are the only
company in the world that can
guarantee a 100% reduction in noise.

TM

STEMME degrees could be the last track to financial and professional success. The training of STEMME is the only one in the world that can guarantee a 100% reduction in noise.

ACOUSTICAL SURFACES INC. 123 Columbia Court North, Chaska, MN 55318
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BBC-EXT-R & BBC-EXT-R-2"

PERMANENT STYLE

Most Durable – Long-term Sound Curtain

BBC-EXT-R AND EXT-R-2" PANELS offer the benefits of both a noise barrier and a sound absorber composite in one product for long-term/permanent, outdoor applications. This barrier-backed product consists of an exterior grade, UV resistant heavy duty VCP faced quilted fiberglass absorber bonded to a one-pound per sq. ft. reinforced loaded vinyl noise barrier. Modular curtain panels are constructed with grommets across the top and bottom, and exterior grade Velcro seals along the vertical edges. Panels are sewn with an exterior grade thread. This product is also available in roll form with edges bound or unbound.

FEATURES

- 1 lb. psf. reinforced MLV
- Wind Load up to 140 mph
- 1" thick or 2" thick quilted fiberglass sound absorber
- Maximum durability in all weather conditions
- Available quilt colors: gray, tan, black or off-white
- Available barrier colors: gray, tan or black

ACOUSTICAL RATING:

- EXT-R: 1" STC 29, NRC .65
- EXT-R-2: 2" STC 38, NRC .75

APPLICATIONS

- HVAC Equipment, Chillers
- Compressors, Generators
- Dust Collectors
- Shredders, Pumping Stations

SPECIFICATIONS

- VCP faced 1" or 2" quilted fiberglass reinforced vinyl noise barrier.
- 1 lb. psf. reinforced MLV
(Also available in 2 lb. psf. reinforced MLV upon request)
- Nominal thickness 1.0/2.0 inches
- Temperature range -20° to +180° F
- Standard panel width: 54" wide, lengths up to 20'.
- Standard roll width: 54" wide, 25' long
- Approximate Weight:
EXT-R: 1.2 lb. psf.
EXT-R-2": 1.4 lb. psf.

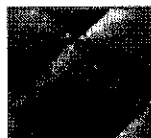
FACING COLORS



GRAY



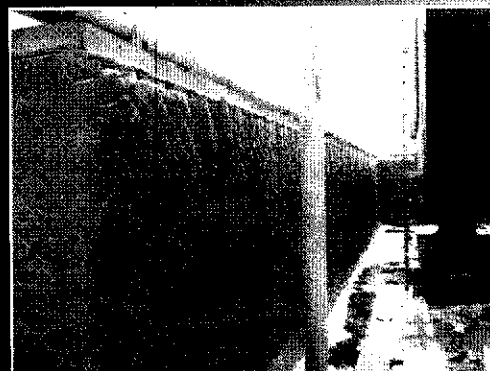
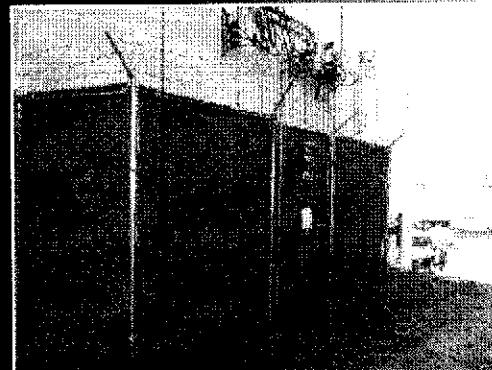
TAN



BLACK



WHITE



Acoustical Surfaces, Inc., 123 Columbia Court North, Chaska, MN 55318

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BBC-13X & BBC-13X-2"
MOST SPECIFIED
Most Popular – Sound Curtains



ACOUSTICAL

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BBC-13X & 13X-2" PANELS

MOST SPECIFIED

Most Popular – Temporary Sound Curtain

BBC-13X AND 13X-2 PANELS are our most widely used panels. They combine the benefit of both Noise Barrier (Rated in STC) and Sound Absorber (Rated in NRC) in one product. This product consists of a two-inch thick vinyl-coated-fiberglass-cloth faced quilted fiberglass absorber that is bonded to a one-pound per sq. ft. reinforced loaded vinyl noise barrier. "X" style Sound Curtain panels are constructed with grommets across the top and bottom, and exterior grade Velcro seals along the vertical edges.

FEATURES

- Most versatile temporary construction noise barrier
- Class A flammability rated per ASTM E-84
- 1 lb. psf. reinforced VCF
- Fabricated with grommets across top and bottom and exterior grade Velcro seams along edges
- Available quilt colors: gray, tan, black or off-white
- Available barrier colors: gray, tan or black

ACOUSTICAL RATING:

- 13X: 1" STC 27, NRC .70
- 3X-2: 2" STC 32, NRC .85

APPLICATIONS

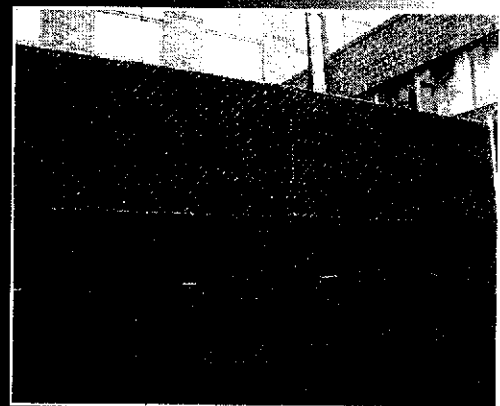
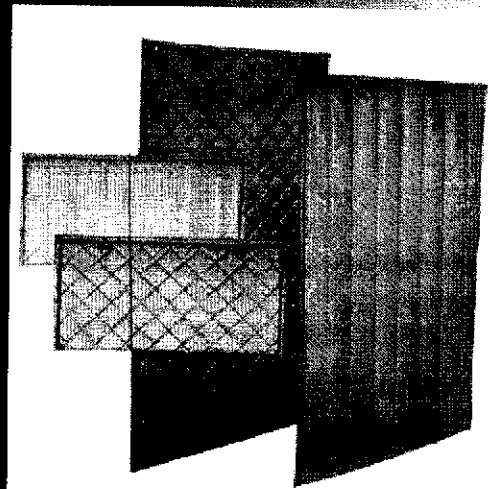
With a minimum life span of 5 years* in the harshest environments, this product is typically used as a temporary noise barrier on outdoor applications such as construction site noise mitigation projects. BBC-13X-2" has been a recommended, specified and approved product to comply with the New York City Noise Ordinance Code.

TYPICALLY INSTALLED ON:

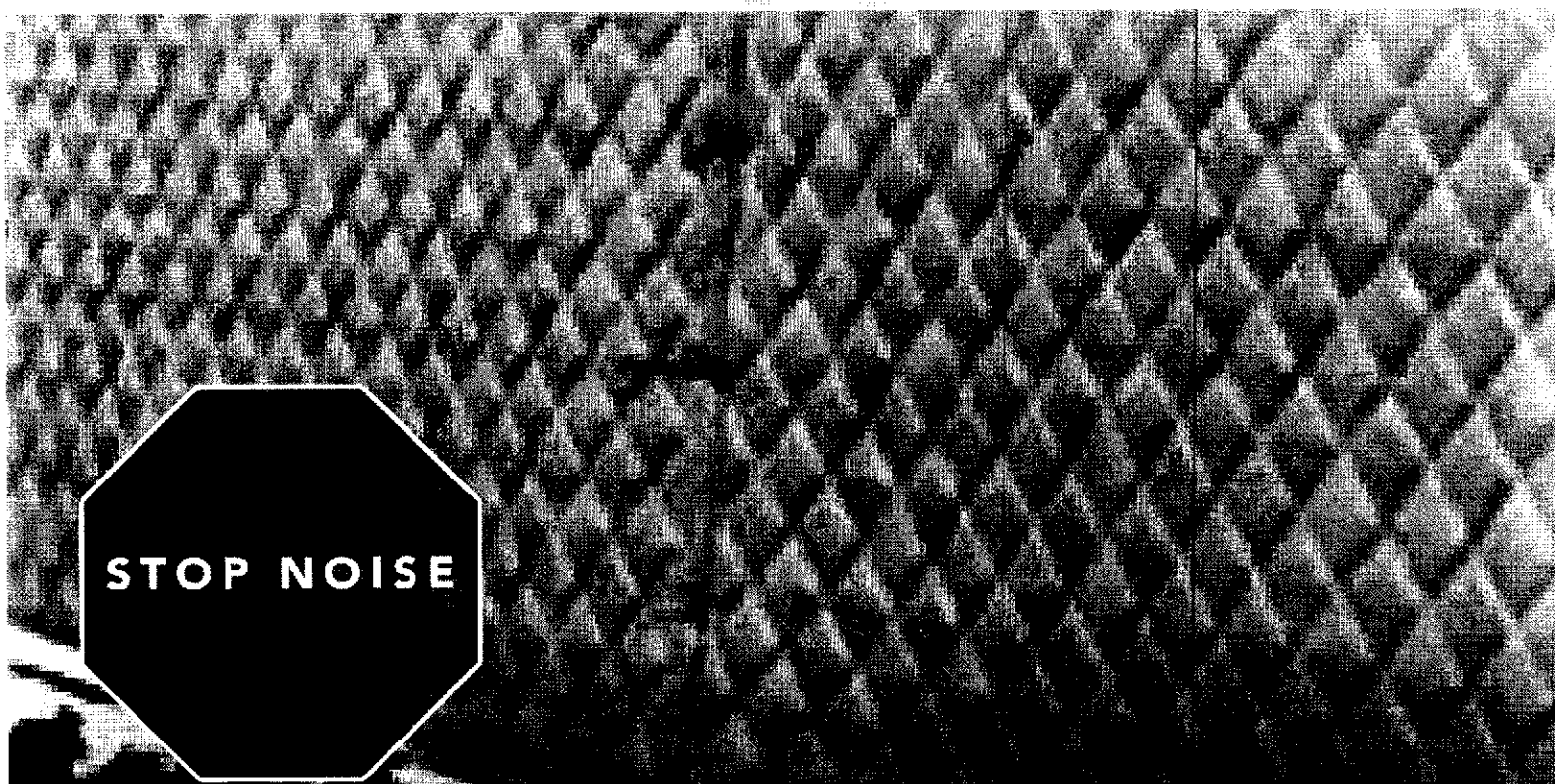
- Chain Link Fences
- Wooden Support Structures
- Jersey Barriers

SPECIFICATIONS

- VCF facing on 1" or 2" quilted fiberglass/1 lb-psf reinforced loaded vinyl noise barrier.
(Also available in 2 lb. psf reinforced VCF upon request.)
- Class A ASTM E-84 (Flame 23, Smoke 30)
- Nominal thickness 1.0/2.0 inches
- Temperature range -20° to +180° F
- Standard panel width: 54" wide, lengths up to 20'
- Standard roll size 54" wide x 25' long
- Approximate Weight:
 - 13X: 1.2 lb. psf.
 - 3X-2: 1.45 lb. psf.



BBC-EXT-N & BBC-EXT-N-2
MOST ECONOMIC
Sound Curtains



STOP NOISE

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BBC-EXT-N & BBC-EXT-N-2

MOST ECONOMIC

Sound Curtains

BBC-EXT-N and BBC-EXT-N-2 combine a money saving, non-reinforced noise barrier with UV and tear resistant exterior grade faced quilted fiberglass sound absorbers. The barrier-backed EXT-N and EXT-N-2 style sound curtain offers the benefits of both sound absorption and noise barrier products in one for outdoor applications. A non-reinforced 1-LB or 2-LB psf. loaded vinyl barrier is bonded to a 1" or 2" thick exterior grade vinyl-coated-polyester faced quilted fiberglass absorber. Curtain panels are constructed with grommets across the top and bottom, and exterior grade Velcro seals along the vertical edges. The product is also available in roll form with edges bound or unbound.

FEATURES

- 1 lb. psf. non-reinforced MLV
- 1" or 2" thick exterior grade VCP faced quilted fiberglass absorber

ACOUSTICAL RATING:

- EXT-N: STC 29, NRC .65
- EXT-N-2: STC 33, NRC .75

APPLICATIONS

Typically used as an economic Sound Curtain on temporary construction projects, the exterior grade VCP facing is specifically formulated for outdoor applications. Composite products offer maximum noise reduction by both blocking and absorbing noise at job sites.

TYPICALLY INSTALLED ON:

- Temporary Fencing
- Scaffolding

SPECIFICATIONS

- 1" or 2" thick VCP faced quilted fiberglass bonded to a 1 LB/SF non-reinforced loaded vinyl barrier
- Nominal thickness 1.0/2.0 inches
- Temperature range -20° to +180° F
- Standard panel width: 54" wide, lengths up to 12'
- Standard roll size 54" wide x 25' long
- Approximate Weight:
EXT-N: 1.25 lb. psf
EXT-N-2: 1.45 lb. psf.

BBC-EXT-N & BBC-EXT-N-2 FACING COLORS



GRAY



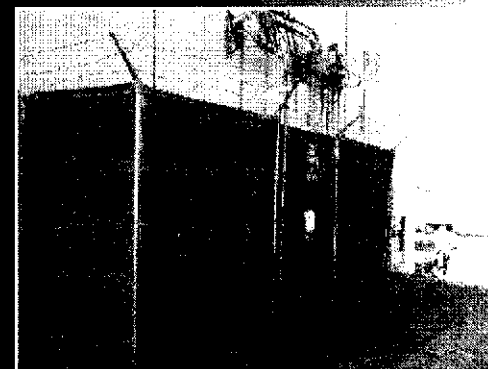
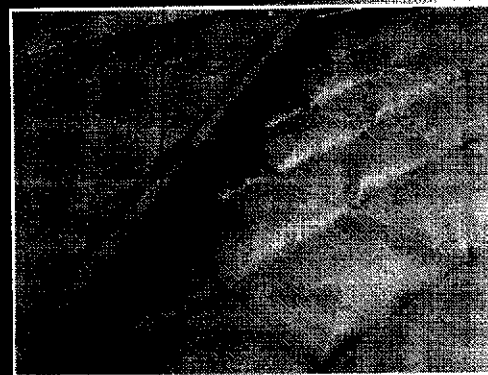
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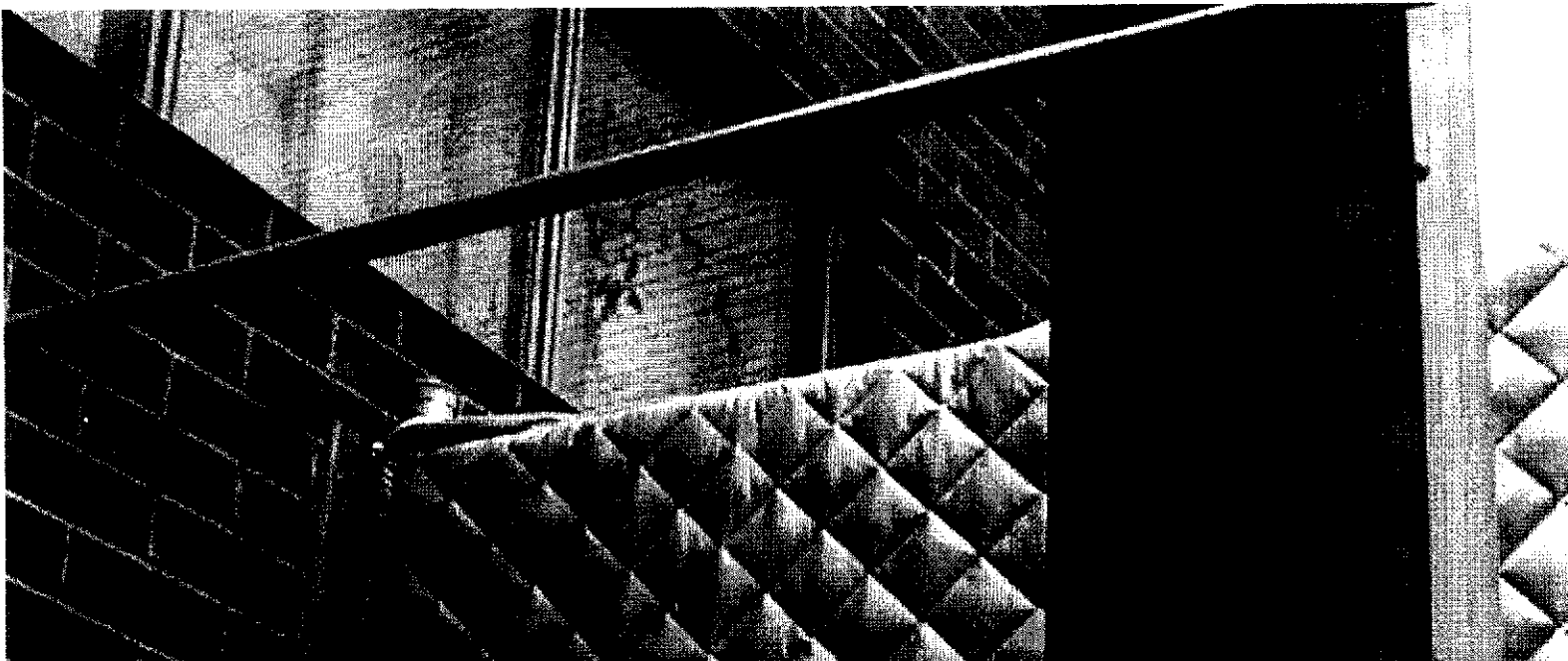


BLACK



WHITE





QFA-EXT-D-2

EXTERIOR SOUND ABSORBERS



ACOUSTICAL
SURFACES INC.

123 Columbia Court North, Chaska, MN 55318

P: 800.854.2948 • W: www.acousticalsurfaces.com • E: sales@acousticalsurfaces.com

QFA-EXT-D-2

EXTERIOR SOUND ABSORBERS

QFA-EXT-D-2 PANELS feature our UV and tear resistant exterior grade faced quilted fiberglass sound absorber sewn with a Gore Tenera thread.

FEATURES

- 2" thick
- Exterior grade facing on both sides
- Superior UV resistance

ACOUSTICAL RATING:

- STC 21, NRC .75

APPLICATIONS

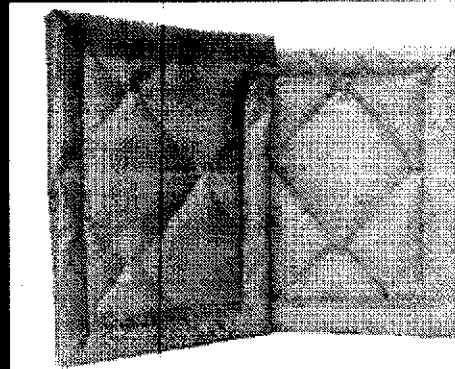
Exterior Grade faced quilted fiberglass absorbers are used to reduce reverberant noise on outdoor noise sources such as enclosing HVAC equipment, dust collectors or similar.

TYPICALLY INSTALLED ON:

- Brick or Masonry Wall Structures
- Solid Wood Fences

SPECIFICATIONS

- Vinyl Coated Polyester (VCP) facing / 2" fiberglass batt
Vinyl Coated Polyester (VCP) facing
- Nominal thickness 2.0 inches
- Temperature range -40° to +180° F
- Panel or Roll size 48" wide x 25' long, bound or unbound
- Weight: 0.50 lb. psf.



TESTIMONIALS

Bon Secours-Venice Hospital SOUND ABSORBING CURTAIN

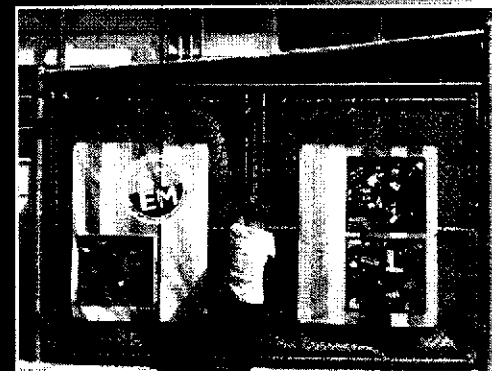
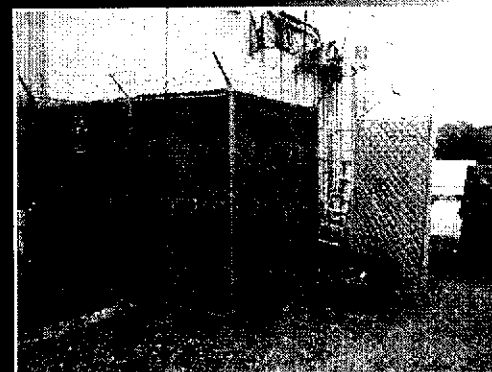
Thank you for your follow-up call concerning our order and installation of ASI's Sound Absorbing Curtain.

We installed the panels of various lengths outside, around the perimeter of our cooling tower/mechanical roof and inside the stockade fencing surrounding an independent chiller and generator.

As a result, we are experiencing a noise reduction of at least 10dB at the street level, which accomplishes our desired goals.

I found Acoustical Surfaces very responsive and easy to work with. I appreciate all your help.

Joe T – General Manager Support Services
Bon Secours-Venice Hospital



PermaCity, Los Angeles, CA ACOUSTICAL BLANKET SAVES THE DAY

Photovoltaic Inverters come in a wide variety of shapes and sizes. The one we had installed was large, about 8 ft. tall, 5 ft. wide, and 3 ft. deep. Besides being so large, this inverter is extremely loud and makes a very high-pitch, whiny sound when on. This is always an issue, but in our case, this was a disaster. The inverter was installed in the heart of an elementary school. Needless to say, we were not allowed to run the inverter without first mitigating the sound. Through online research I came in touch with Acoustical Surfaces. They have a large assortment of products, but most importantly, a very knowledgeable staff. Their staff recommended an acoustical blanket rated for outdoor use. The blankets were made to the exact dimensions, so they fit the fenced enclosure around our inverter perfectly. The custom made products arrived in a timely manner and were super easy to install. I have to say, we are more than delighted with the sound level reduction! The inverter is on, and we are producing solar energy.

Project Engineer
PermaCity
Los Angeles, CA



ACOUSTICAL
SURFACES INC.

ACOUSTICAL PERFORMANCE DATA

BBC-EXT-R / BBC-EXT-5-2"

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-R	15	17	28	40	45	52	29

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-R	.18	.68	.74	.72	.42	.29	.65

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-R-2"	14	20	32	41	42	41	33

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-R-2"	.45	.96	.87	.66	.47	.28	.75

BBC-13-X / BBC-13-X-2"

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-13-X	11	16	24	30	35	35	27

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-13-X	.12	.47	.85	.84	.64	.62	.70

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-13-X-2"	13	20	29	49	50	55	32

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-13-X-2"	.07	.27	.96	1.13	1.08	.99	.85

BBC-EXT-N / BBC-EXT-N-2"

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-N	15	17	28	40	45	52	29

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-N	.17	.30	.83	.82	.59	.37	.65

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-N-2"	14	20	32	41	42	41	33

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-N-2"	.45	.96	.87	.66	.47	.28	.75

QFA-EXT-D-2"

SOUND TRANSMISSION LOSS

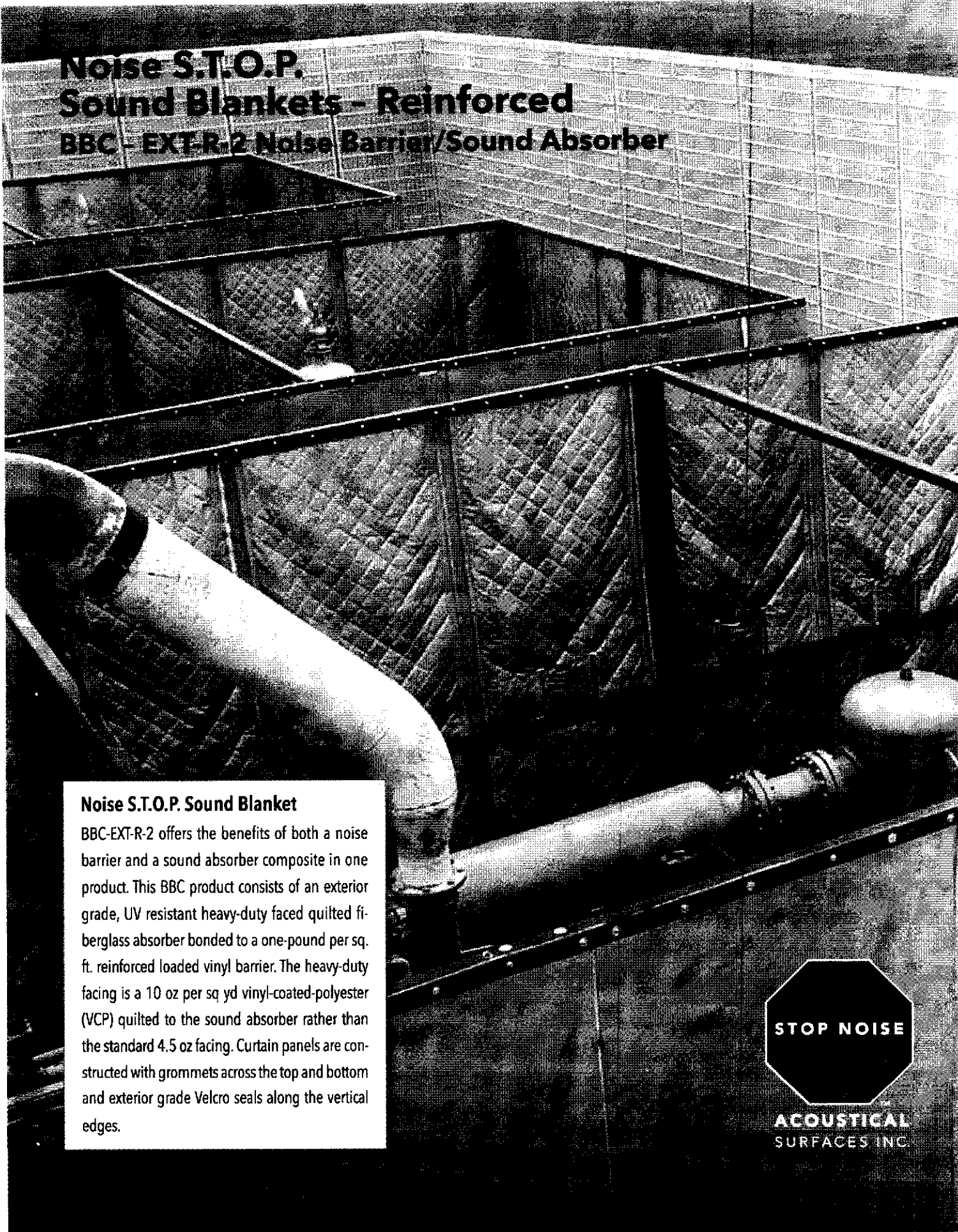
OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
QFA-EXT-D-2"	9	14	19	21	27	34	21

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
QFA-EXT-D-2"	.46	.94	.85	.64	.47	.33	.75

Acoustical Surfaces, Inc., 123 Columbia Court North, Chaska, MN 55318

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Noise S.T.O.P. Sound Blankets - Reinforced BBC - EXT-R-2 Noise Barrier/Sound Absorber

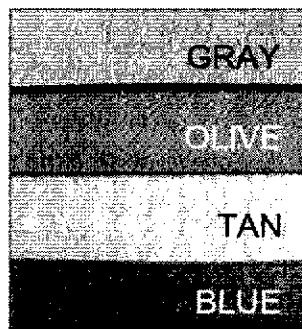
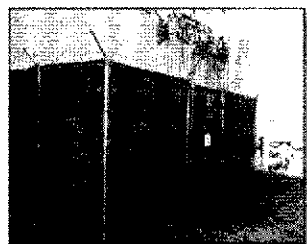
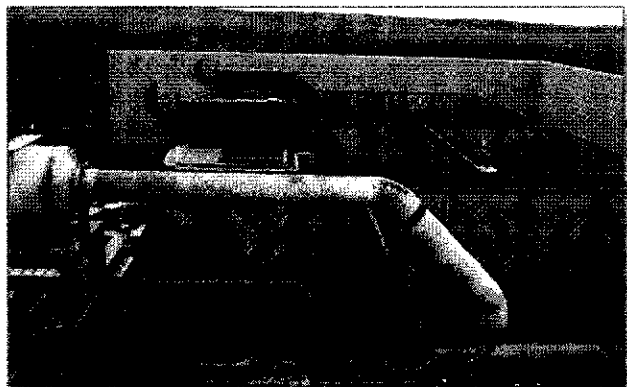
Noise S.T.O.P. Sound Blanket

BBC-EXT-R-2 offers the benefits of both a noise barrier and a sound absorber composite in one product. This BBC product consists of an exterior grade, UV resistant heavy-duty faced quilted fiberglass absorber bonded to a one-pound per sq. ft. reinforced loaded vinyl barrier. The heavy-duty facing is a 10 oz per sq yd vinyl-coated-polyester (VCP) quilted to the sound absorber rather than the standard 4.5 oz facing. Curtain panels are constructed with grommets across the top and bottom and exterior grade Velcro seals along the vertical edges.

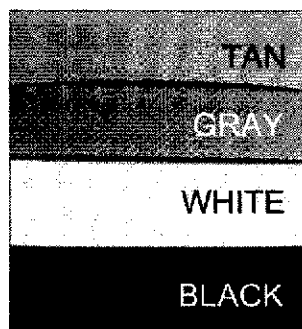
STOP NOISE

ACOUSTICAL
SURFACES INC.

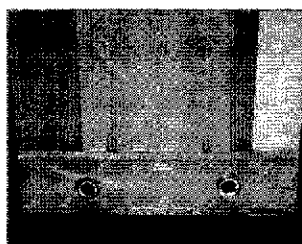
Noise S.T.O.P. Sound Blankets - Reinforced



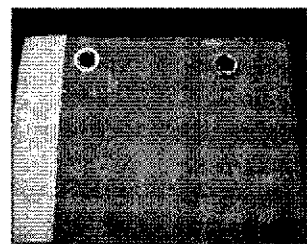
Barrier Color Options



Facing Color Options



Front



Back

FEATURES

- STC 33 Rating, NRC .75
- Available facing colors on quilt: gray, tan, black, white
- Available barrier colors: gray, tan, olive, blue
- Effective and durable absorber with mass loaded vinyl barrier option

MATERIAL

Vinyl coated polyester facing on 2" quilted fiberglass/ 1 lb-psf reinforced loaded vinyl barrier.

APPLICATIONS

Typically used as modular curtain panels in outdoor applications where high abuse resistance or excellent durability as well as maximum longevity and noise reduction is required. Also used as sliding acoustical doors, durable acoustical jacket on fans or valves, as well as a temporary noise barrier on outdoor construction projects.

WEIGHT

1.45 lb psf.

THICKNESS

Nominal 2".

SIZES

54" wide, lengths as required up to 25' high.

COLORS

Facing Colors on Quilt - Gray, tan, black or white.

Barrier Colors - Gray, tan, olive, or blue.

TEMPERATURE RANGE

-20° to +180° F.

Sound Blanket: Sound Transmission Loss - ASTM E90 & E413

Frequency	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
BBC-EXT-R-2	14	20	32	41	42	41	33

Sound Blanket: Sound Absorption Performance - ASTM C423

Frequency	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
BBC-EXT-R-2	.45	.96	.87	.66	.47	.28	.75

Test Reports & Additional Information Can be Found at:

https://www.acousticalsurfaces.com/curtain_stop/sound_blanket.htm



ACOUSTICAL | SURFACES, INC.

Celebrating Over 40 Years - SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION SPECIALISTS!

952.448.5300 | 800.448.0121 | sales@acousticalsurfaces.com | www.acousticalsurfaces.com



ACOUSTICAL

Sound Solutions for Over 35 Years

SURFACES INC.

Soundproofing | Acoustics | Noise & Vibration Control

STATEMENT OF WARRANTY

For a period of one (1) year from the date of purchase, Acoustical Surfaces, Inc. guarantees that any and all of the Acoustical Products they manufacturer will, when properly installed, maintain the high quality of fabrication and workmanship as when they were originally manufactured. This guarantee against defect is limited in liability to the repair or replacement of acoustical materials themselves, and for example would not cover any resulting damages, nor misuse or abuse, nor the removal and reinstallation of the materials. On outdoor applications this warranty does not apply with regards to unforeseen circumstances, including but not limited to, excess winds, severe weather conditions, or acts of god. There is no other guarantee implied or inferred beyond this statement of warranty.



J.R. Anderson
President

O'Neill Engineered Systems #1



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Quotes for **"Pickleball Sound Barrier"**, may be submitted online, emailed to claird@bhamgov.org, by July 2, 2024

The City of Birmingham, Michigan is accepting quotes from qualified professional firms to supply a sound absorbing barrier to be attached to an existing 12 ft fence. This supply of product and delivery must be in accordance with the specifications contained in the Request For Quotes (RFQ)

The RFQ, including the Specifications, may be obtained electronically through the Michigan Inter-governmental Trade Network (MITN), accessed at from Bidnet Direct at <https://www.bidnetdirect.com/mitn> or at the City of Birmingham, 851 S. Eton, Birmingham, Michigan, ATTN: Carrie Laird

Submitted to MITN: June 25, 2024

Deadline for Submissions: **July 2, 2024 2:00pm**

Contact Person: Carrie Laird
851 S. Eton St.
Birmingham, MI 48009
Phone: 248-530-1714
Email: claird@bhamgov.org



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Contents

SPECIFICATIONS OF PRODUCT AND DELIVERY	3
ATTACHMENT B - BIDDER'S AGREEMENT	5
ATTACHMENT C - COST PROPOSAL	6
ATTACHMENT D - IRAN SANCTIONS ACT VENDOR CERTIFICATION FORM	7

SPECIFICATIONS OF PRODUCT AND DELIVERY

The Vendor shall perform the following services in accordance with the requirements as defined and noted herein:

1. The selected Vendor shall be responsible for the delivery of all materials in a safe and legal manner.
2. The Vendor will deliver the following product to Department of Public Services, 851 S. Eton, Birmingham, MI 48009.
3. In addition to any express warranties set forth in the Vendor's quotation, any statutory warranties or any warranties implied by law, Vendor expressly represents and warrants to City the Product(s) provided under the order shall (a) strictly conform to and/or operate in accordance with the applicable specifications and end-users' reasonable expectations, (b) be merchantable, free from defects in design, material and workmanship and shall be new and of highest quality; (c) be fit for the purpose for which they are intended and safe for any use that is consistent with the applicable specifications or that is reasonably foreseeable; and (d) be free and clear of all liens, claims or other encumbrances, and conveyed to City with good title; (e) conform to all industry standards and all applicable laws.

Sound Absorbing Product/Barrier

- The City desires a sound absorbing barrier that will attach to a 12 ft. existing fence on the southern end only of the Crestview Park Pickleball Courts in the City of Birmingham (diagram attached).
- Vendor to recommend the appropriate barrier to attach to an existing fence, based upon manufacturer's installation protocols. Installation instructions must be provided with Vendor's cost proposal.
- Vendor to provide evidence and a guarantee that the product they are proposing will absorb and reduce sound.
- The nearest residence to the Pickleball Courts is on the South end, approximately 90 ft away from the edge of the Pickleball Courts. Vendor to provide a demonstration of the barrier's ability to reduce sound at this distance including any diagrams and or sketches indicating how the sound is reduced or absorbed.
- Vendor to provide the appropriate length of the product or combination of products to achieve the desired outcome of reducing the sound along the southern end of the courts.
- As an alternate, Vendor may provide a cost for installation if able to do so. If not, label as N/A on the cost proposal.

Limited Warranty

1. Vendor warrants to City that from the date of shipment of the sound barrier that such will be free from material defects in material and workmanship and will warranty the product for a period of time. Vendor to submit length of warranty with the cost proposal.
2. Vendor shall not be liable for a breach of the warranty unless the City gives written notice of the defect, reasonably described to Vendor within thirty (30) days of the time when City discovers or ought to have discovered the defect. Vendor will have twenty-one (21) days to replace or repair the product.

ATTACHMENT B - BIDDER'S AGREEMENT
Sound Barrier for Pickleball Courts

In submitting this quote, as herein described, the Vendor agrees that:

1. They have carefully examined the specifications and terms of the Request for Quotes and all other provisions of this document and understand the meaning, intent, and requirement of it.
2. They will furnish the item or items in the time specified in conformance with the specifications and conditions contained therein for the price quoted by the proponent on this proposal.

David Rozema

7/2/24

PREPARED BY
(Print Name)

DATE

Sales Engineer

TITLE

DATE

David Rozema

david@noiseproblems.com

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

O'Neill Engineered Systems

COMPANY

7897 Pierce St, Allendale, MI 49401

Office 262-367-6700

ADDRESS

PHONE

Cell 269-303-9017

NAME OF PARENT COMPANY

PHONE

ADDRESS

ATTACHMENT C - COST PROPOSAL

Sound Barrier for Pickleball Courts

In order for the bid to be considered valid, this form must be completed in its entirety. The cost for the product and delivery as stated in the Request for Quotes documents is as follows:

COST PROPOSAL Sound Barrier for Pickleball Courts																																																		
ITEM	QUANTITY	TOTAL AMOUNT																																																
Sound Barrier Product (provide name below) <u>BBC EXT R 2 Clasic</u>		\$ <u>24,979.00</u>																																																
Delivery (if additional)		\$ <u>Included</u>																																																
Product Guarantee to absorb sound If yes, please describe below: <u>Product absorbs sound and has a sound blocking barrier. See attached Brochure</u> <u>ASTM Performance Ratings:</u> ACOUSTICAL PERFORMANCE <table border="1"><thead><tr><th colspan="8">Sound Transmission Loss Coefficients at the Octave Band Frequencies (Hz)</th></tr><tr><th>Frequency (Hz)</th><th>125</th><th>250</th><th>500</th><th>1K</th><th>2K</th><th>4K</th><th>STC</th></tr></thead><tbody><tr><td>BBC-EXT-R</td><td>15</td><td>17</td><td>28</td><td>40</td><td>45</td><td>52</td><td>29</td></tr></tbody></table> ASTM E-90 & E-413 <table border="1"><thead><tr><th colspan="8">Sound Absorption Coefficients at the Octave Band Frequencies</th></tr><tr><th>Frequency (Hz)</th><th>125</th><th>250</th><th>500</th><th>1K</th><th>2K</th><th>4K</th><th>NRC</th></tr></thead><tbody><tr><td>BBC-EXT-R</td><td>.18</td><td>.68</td><td>.74</td><td>.72</td><td>.42</td><td>.29</td><td>.65</td></tr></tbody></table> ASTM C-423		Sound Transmission Loss Coefficients at the Octave Band Frequencies (Hz)								Frequency (Hz)	125	250	500	1K	2K	4K	STC	BBC-EXT-R	15	17	28	40	45	52	29	Sound Absorption Coefficients at the Octave Band Frequencies								Frequency (Hz)	125	250	500	1K	2K	4K	NRC	BBC-EXT-R	.18	.68	.74	.72	.42	.29	.65	Circle: <u>YES</u> or NO
Sound Transmission Loss Coefficients at the Octave Band Frequencies (Hz)																																																		
Frequency (Hz)	125	250	500	1K	2K	4K	STC																																											
BBC-EXT-R	15	17	28	40	45	52	29																																											
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Warranty: please describe below: <u>1 year against manufactures defects. See Warranty Statement in Email.</u>																																																		
ALTERNATE																																																		
Installation (if applicable)		\$ <u>12,836.00</u>																																																
GRAND TOTAL		\$ <u>37,815.00</u>																																																

Firm Name O'Neill Engineered Systems

ATTACHMENT D - IRAN SANCTIONS ACT VENDOR CERTIFICATION FORM

Sound Barrier for Pickleball Courts

Pursuant to Michigan Law and the Iran Economic Sanction Act, 2012 PA 517 ("Act"), prior to the City accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must certify that it is not an "Iran Linked Business", as defined by the Act.

By completing this form, the Vendor certifies that it is not an "Iran Linked Business", as defined by the Act and is in full compliance with all provisions of the Act and is legally eligible to submit a bid for consideration by the City.

David Rozema

7/2/24

PREPARED BY
(Print Name)

DATE

Sales Engineer

TITLE

DATE

David Rozema

david@noiseproblems.com

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

O'Neill Engineered Systems

COMPANY

7897 Pierce St, Allendale, MI 49401

Office 262-367-6700

ADDRESS

PHONE

Cell 269-303-9017

NAME OF PARENT COMPANY

PHONE

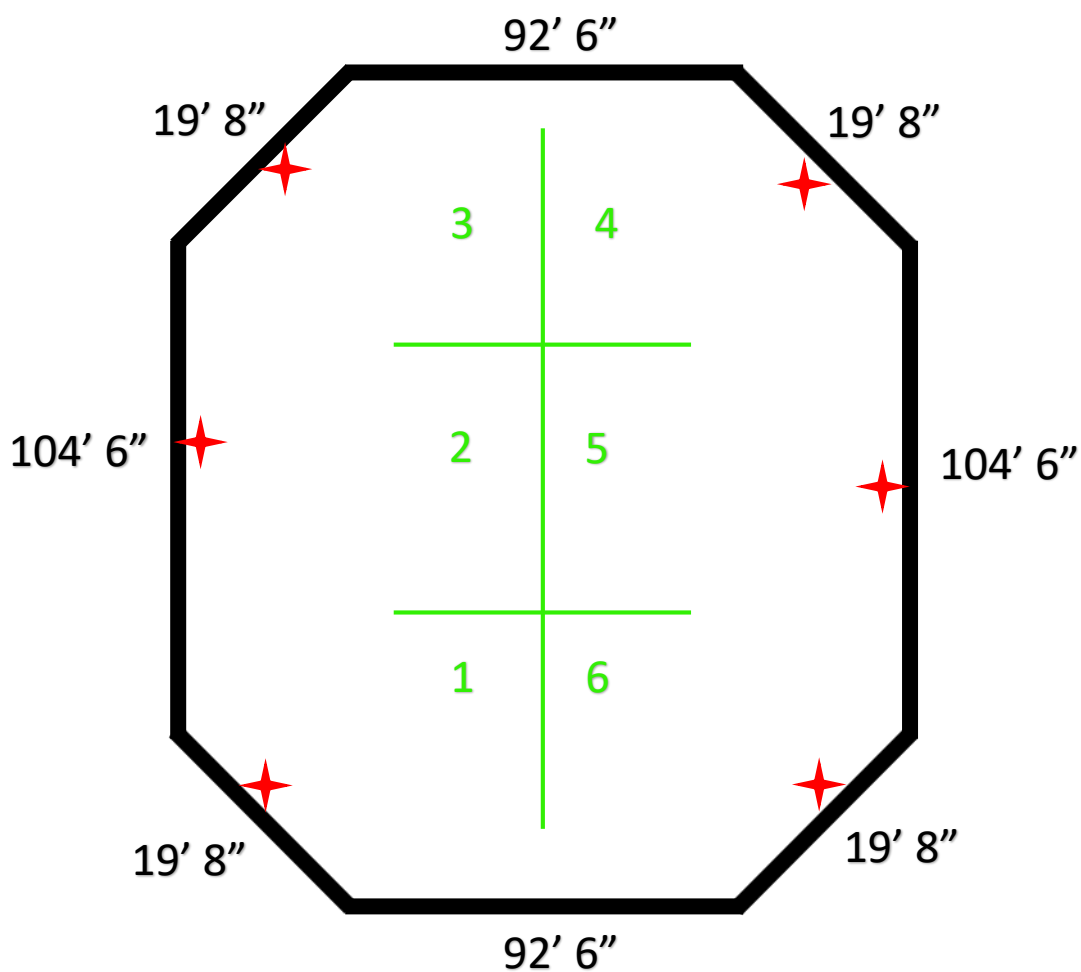
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TAXPAYER I.D.#



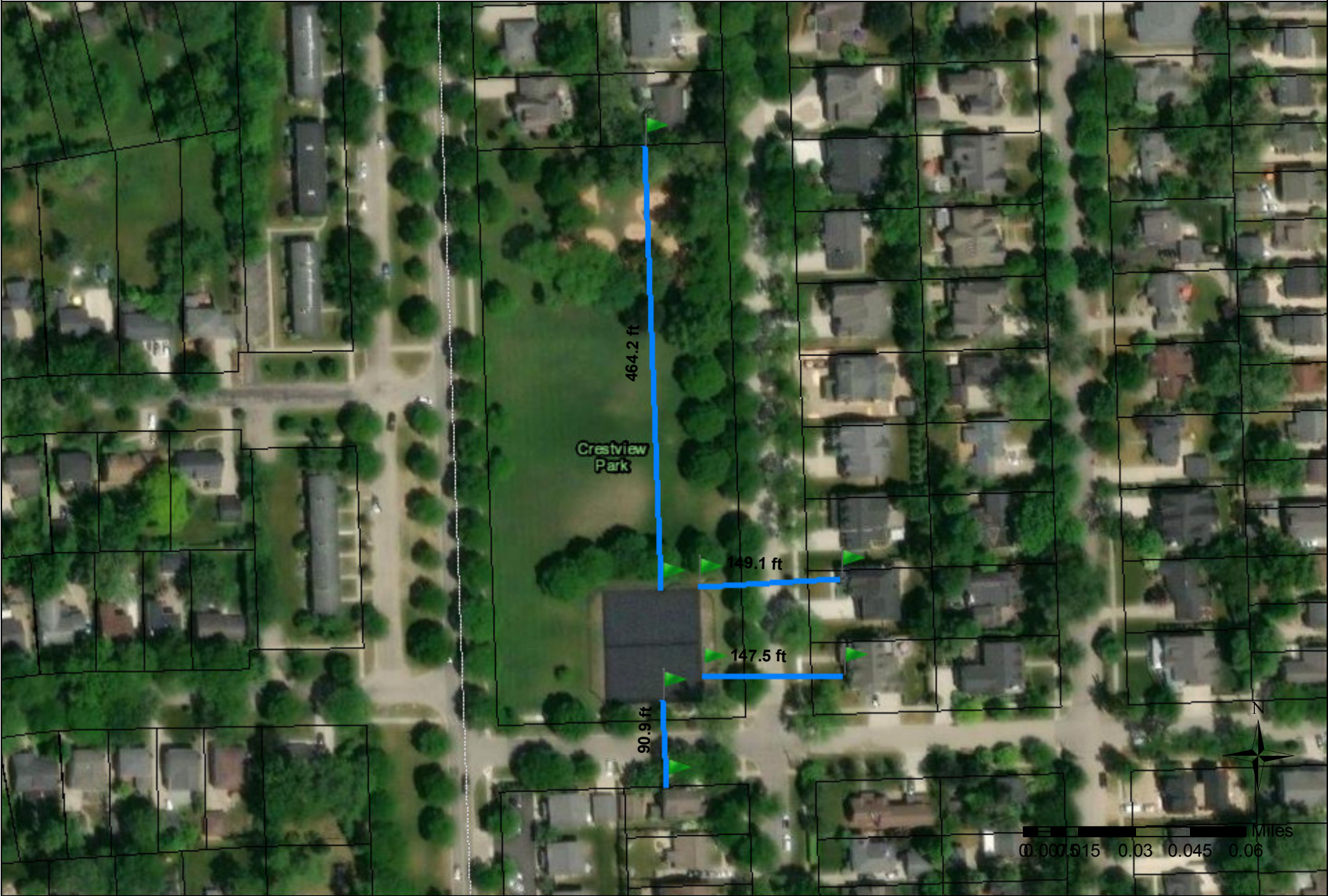
Southlawn



Shipman

★ = 12' height

Distance to nearby residences





SOUND CURTAINS
BY SOUND SEAL

SOUND BARRIER COMPOSITES

SPEC DATA SHEET **BBC SERIES**



BBC-EXT-R

EXTERIOR GRADE NOISE BARRIER/SOUND ABSORBER COMPOSITE

The configuration of Sound Seal's **BBC-EXT-R** product offers the benefits of both a sound absorber and noise barrier for outdoor applications. Each curtain is custom fabricated to include exterior grade, UV resistant heavy-duty VCP faced quilted fiberglass absorber bonded to a one-pound per sq. ft. reinforced loaded vinyl noise barrier. Each is finished with grommets across the top and bottom, and exterior-grade vertical-mating Velcro along the edges for easy installation.

FEATURES:

- Excellent acoustical performance (STC-29/NRC .65)
- Temperature range -20° to +180° F
- Nominal Thickness: 1"
- Weight: 1.20 lb psf
- Maximum durability and longevity outdoors

APPLICATIONS:

- Used as modular curtain panels on long-term construction projects
- Permanent outdoor applications such as enclosing HVAC equipment, dust collectors or similar machinery
- In areas where UV and abuse resistance is required
- Available with a two-inch thick quilted fiberglass absorber, or with a two-pound per sq. ft. reinforced barrier



BBC-EXT-R panel will utilize exterior-grade Vecro and extra grommets



BBC-EXT-R EXTERIOR GRADE NOISE BARRIER/SOUND ABSORBER COMPOSITE

ACOUSTICAL PERFORMANCE

Sound Transmission Loss Coefficients at the Octave Band Frequencies (Hz)							
Frequency (Hz)	125	250	500	1K	2K	4K	STC
BBC-EXT-R	15	17	28	40	45	52	29

ASTM E-90 & E 413

Sound Absorption Coefficients at the Octave Band Frequencies							
Frequency (Hz)	125	250	500	1K	2K	4K	NRC
BBC-EXT-R	.18	.68	.74	.72	.42	.29	.65

ASTM C 423

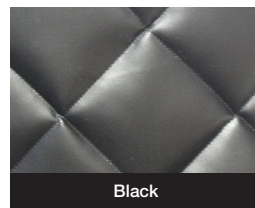
SIZING

Standard rolls measure 54" x 20' L

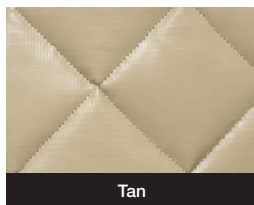
AVAILABLE COLORS



Grey



Black



Tan



White

Color Disclaimer — Due to inconsistencies of various monitors, lighting sources, digital photography and fabric dye lot variations, we cannot guarantee that the color you see on your screen accurately portrays the true color of the product. Screen images are intended as a guide only. Swatch samples available upon request.

AVAILABLE BARRIER COLORS

Gray, Tan, Black, Light Blue*

*subject to availability



SPECIFICATIONS:

Visit www.soundseal.com
or call **1.800.569.1294**

soundseal.com/bbcx



www.soundseal.com | [in](#) [twitter](#) [youtube](#) [facebook](#) [instagram](#)



A CATALYST ACOUSTICS GROUP COMPANY



Statement of Warranty and Life Expectancy

Sound Seal, Inc. of Agawam, Massachusetts, as the manufacturer of the SOUND SEAL PRODUCT LINE, hereby states the following warranty policy for our Sound Curtain products line:

For a period of one (1) year from the date of purchase, Sound Seal, Inc. guarantees that any and all Acoustical Products they manufacture will, when properly installed, maintain the high quality of fabrication and workmanship as when they were originally manufactured. This guarantee against defect is limited in liability to the repair or replacement of the curtain panel themselves, and for example would not cover any resultant damages, nor misuse or abuse, nor the removal and reinstallation of the panels. Additionally, this guarantee would not be applicable to misuse or abuse of the product, nor cover damages caused by conditions beyond our control such as high winds, floods, or other natural disasters. There is no other guarantee implied or inferred beyond this statement of warranty.

Life expectancy for Sound Seal panels used in the proper environments range from 5 to 10+ years. Sound curtain panels utilized in higher use abuse areas will wear out faster.

Mary Riemenschneider
Applications Engineer

O'Neill Engineered Systems #2



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Quotes for **"Pickleball Sound Barrier"**, may be submitted online, emailed to claird@bhamgov.org, by July 2, 2024

The City of Birmingham, Michigan is accepting quotes from qualified professional firms to supply a sound absorbing barrier to be attached to an existing 12 ft fence. This supply of product and delivery must be in accordance with the specifications contained in the Request For Quotes (RFQ)

The RFQ, including the Specifications, may be obtained electronically through the Michigan Inter-governmental Trade Network (MITN), accessed at from Bidnet Direct at <https://www.bidnetdirect.com/mitn> or at the City of Birmingham, 851 S. Eton, Birmingham, Michigan, ATTN: Carrie Laird

Submitted to MITN: June 25, 2024

Deadline for Submissions: **July 2, 2024 2:00pm**

Contact Person: Carrie Laird
851 S. Eton St.
Birmingham, MI 48009
Phone: 248-530-1714
Email: claird@bhamgov.org



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Contents

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SPECIFICATIONS OF PRODUCT AND DELIVERY

The Vendor shall perform the following services in accordance with the requirements as defined and noted herein:

1. The selected Vendor shall be responsible for the delivery of all materials in a safe and legal manner.
2. The Vendor will deliver the following product to Department of Public Services, 851 S. Eton, Birmingham, MI 48009.
3. In addition to any express warranties set forth in the Vendor's quotation, any statutory warranties or any warranties implied by law, Vendor expressly represents and warrants to City the Product(s) provided under the order shall (a) strictly conform to and/or operate in accordance with the applicable specifications and end-users' reasonable expectations, (b) be merchantable, free from defects in design, material and workmanship and shall be new and of highest quality; (c) be fit for the purpose for which they are intended and safe for any use that is consistent with the applicable specifications or that is reasonably foreseeable; and (d) be free and clear of all liens, claims or other encumbrances, and conveyed to City with good title; (e) conform to all industry standards and all applicable laws.

Sound Absorbing Product/Barrier

- The City desires a sound absorbing barrier that will attach to a 12 ft. existing fence on the southern end only of the Crestview Park Pickleball Courts in the City of Birmingham (diagram attached).
- Vendor to recommend the appropriate barrier to attach to an existing fence, based upon manufacturer's installation protocols. Installation instructions must be provided with Vendor's cost proposal.
- Vendor to provide evidence and a guarantee that the product they are proposing will absorb and reduce sound.
- The nearest residence to the Pickleball Courts is on the South end, approximately 90 ft away from the edge of the Pickleball Courts. Vendor to provide a demonstration of the barrier's ability to reduce sound at this distance including any diagrams and or sketches indicating how the sound is reduced or absorbed.
- Vendor to provide the appropriate length of the product or combination of products to achieve the desired outcome of reducing the sound along the southern end of the courts.
- As an alternate, Vendor may provide a cost for installation if able to do so. If not, label as N/A on the cost proposal.

Limited Warranty

1. Vendor warrants to City that from the date of shipment of the sound barrier that such will be free from material defects in material and workmanship and will warranty the product for a period of time. Vendor to submit length of warranty with the cost proposal.
2. Vendor shall not be liable for a breach of the warranty unless the City gives written notice of the defect, reasonably described to Vendor within thirty (30) days of the time when City discovers or ought to have discovered the defect. Vendor will have twenty-one (21) days to replace or repair the product.

ATTACHMENT B - BIDDER'S AGREEMENT
Sound Barrier for Pickleball Courts

In submitting this quote, as herein described, the Vendor agrees that:

1. They have carefully examined the specifications and terms of the Request for Quotes and all other provisions of this document and understand the meaning, intent, and requirement of it.
2. They will furnish the item or items in the time specified in conformance with the specifications and conditions contained therein for the price quoted by the proponent on this proposal.

David Rozema

7/2/24

PREPARED BY
(Print Name)

DATE

Sales Engineer

TITLE

DATE

David Rozema

david@noiseproblems.com

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

O'Neill Engineered Systems

COMPANY

7897 Pierce St, Allendale, MI 49401

Office 262-367-6700

ADDRESS

PHONE

Cell 269-303-9017

NAME OF PARENT COMPANY

PHONE

ADDRESS

ATTACHMENT C - COST PROPOSAL

Sound Barrier for Pickleball Courts

In order for the bid to be considered valid, this form must be completed in its entirety. The cost for the product and delivery as stated in the Request for Quotes documents is as follows:

COST PROPOSAL Sound Barrier for Pickleball Courts																																		
ITEM	QUANTITY	TOTAL AMOUNT																																
Sound Barrier Product (provide name below) <u>VIVID BBC 2"</u>		\$ <u>33,550.00</u>																																
Delivery (if additional)		\$ <u>Included</u>																																
Product Guarantee to absorb sound If yes, please describe below: ASTM Performance Ratings: <u>Product absorbs sound and has a sound blocking barrier. See attached Brochure</u>		Circle: <u>YES</u> or NO																																
ACOUSTICAL PERFORMANCE <table border="1"><caption>1/3 Octave Sound Blocking Coefficients at the Octave Band Frequencies</caption><thead><tr><th>Frequency (Hz)</th><th>125</th><th>250</th><th>500</th><th>1K</th><th>2K</th><th>4K</th><th>8K</th></tr></thead><tbody><tr><td>2" Thickness</td><td>14</td><td>17</td><td>25</td><td>33</td><td>45</td><td>49</td><td>29</td></tr></tbody></table> ASTM E-90 & E-413 <table border="1"><caption>1/3 Octave Sound Absorption Coefficients at the Octave Band Frequencies</caption><thead><tr><th>Frequency (Hz)</th><th>125</th><th>250</th><th>500</th><th>1K</th><th>2K</th><th>4K</th><th>NRC</th></tr></thead><tbody><tr><td>2" Thickness</td><td>0.10</td><td>0.57</td><td>0.83</td><td>0.69</td><td>0.51</td><td>0.37</td><td>0.65</td></tr></tbody></table> ASTM C 423			Frequency (Hz)	125	250	500	1K	2K	4K	8K	2" Thickness	14	17	25	33	45	49	29	Frequency (Hz)	125	250	500	1K	2K	4K	NRC	2" Thickness	0.10	0.57	0.83	0.69	0.51	0.37	0.65
Frequency (Hz)	125	250	500	1K	2K	4K	8K																											
2" Thickness	14	17	25	33	45	49	29																											
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Warranty: please describe below: <u>1 year against manufactures defects. See Warranty Sheet in Email</u>																																		
ALTERNATE																																		
Installation (if applicable)		\$ <u>12,836.00</u>																																
GRAND TOTAL		\$ <u>46,386.00</u>																																

Firm Name O'Neill Engineered Systems

ATTACHMENT D - IRAN SANCTIONS ACT VENDOR CERTIFICATION FORM

Sound Barrier for Pickleball Courts

Pursuant to Michigan Law and the Iran Economic Sanction Act, 2012 PA 517 ("Act"), prior to the City accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must certify that it is not an "Iran Linked Business", as defined by the Act.

By completing this form, the Vendor certifies that it is not an "Iran Linked Business", as defined by the Act and is in full compliance with all provisions of the Act and is legally eligible to submit a bid for consideration by the City.

David Rozema

7/2/24

PREPARED BY
(Print Name)

DATE

Sales Engineer

TITLE

DATE

David Rozema

david@noiseproblems.com

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

O'Neill Engineered Systems

COMPANY

7897 Pierce St, Allendale, MI 49401

Office 262-367-6700

ADDRESS

PHONE

Cell 269-303-9017

NAME OF PARENT COMPANY

PHONE

7897 Pierce St, Allendale, MI 49401

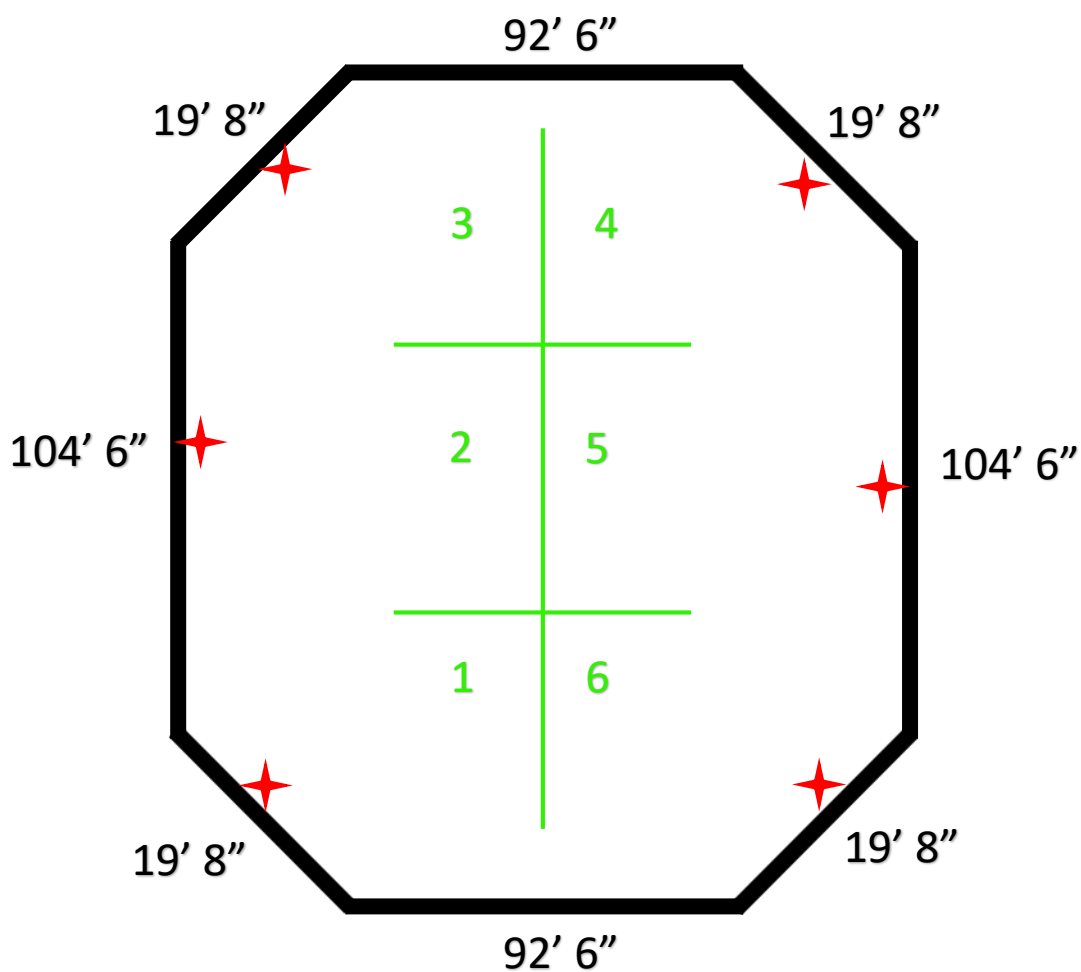
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39-1937749

TAXPAYER I.D.#



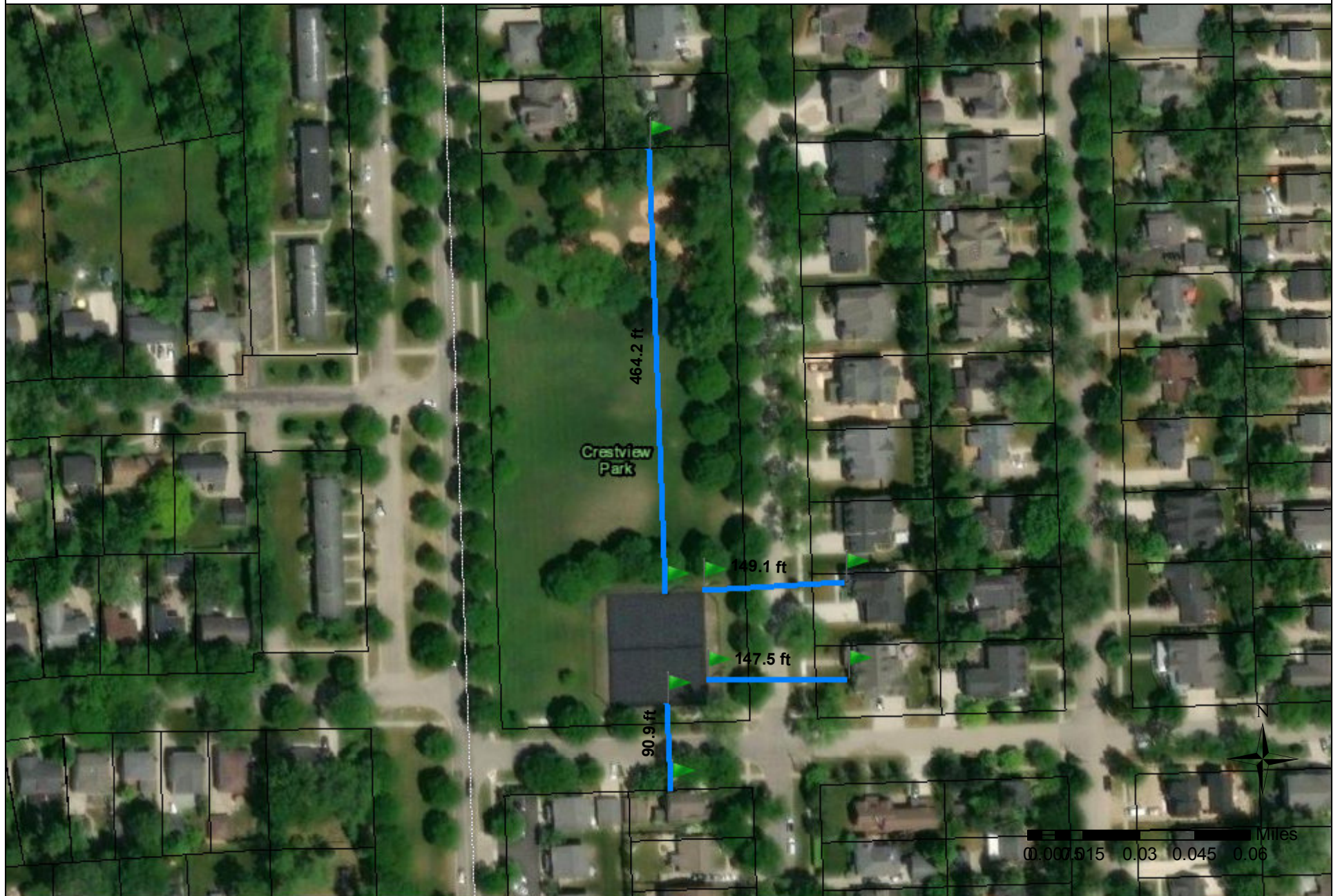
Southlawn



Shipman

★ = 12' height

Distance to nearby residences





SOUND CURTAINS
BY SOUND SEAL

BARRIER BACKED COMPOSITES

SPEC DATA SHEET



VIVID™ BBC-2"

BARRIER BACKED COMPOSITES

Vivid BBC-2" offers the benefits of both a noise barrier and a sound absorber in one composite product. Curtain panels are constructed with grommets across the top and exterior-grade Velcro seals along the vertical edges. Available in bound or unbound rolls, standard panels sizes or custom panels. Add some color to your manufacturing and outdoor spaces with Vivid.

FEATURES:

- Excellent acoustical performance
- Custom sizing
- Easy to install
- Durable, tear and abrasion-resistant
- Great UV and mildew resistance
- Highly water repellent
- Dimensionally stable; will not sag or stretch over time

OUTDOOR APPLICATIONS:

- Construction sites
- Pickle ball / tennis courts
- Outdoor dining venues
- Zoos / animal sanctuaries
- Life span of 10 years in the harshest exterior environments when properly installed

INDOOR APPLICATIONS:

- Music venues
- Manufacturing facilities
- Mechanical enclosures
- Distribution centers



VIVID BBC-2" BARRIER BACKED COMPOSITES

SIZING

- Rolls are available 54" W x 25' L, bound or unbound
- Standard panels 54" x 8' or custom sized panels

WEIGHT

- 1.5# per square foot

FINISHES

- Exterior grade covering
- 12 colors available for face
- 3 colors available for barrier back: light grey, tan or black

THICKNESS/SUBSTRATES

- Standard thickness: 2" thick fiberglass quilt with 1# PSF
- Reinforced mass-loaded vinyl

MOUNTING OPTIONS

- Exterior-grade Velcro seals along vertical edges
- Stainless steel grommets across the top, and bottom, if desired

FIRE RATING

- Class A Flammability Rated per ASTM E- 84
- Flame Spread: 25
- Smoke density: 200

TEMPERATURE RANGE

-20° to +180°F

ACOUSTICAL PERFORMANCE

1/3 Octave Sound Blocking Coefficients at the Octave Band Frequencies

Frequency (Hz)	125	250	500	1K	2K	4K	STC
2" Thickness	14	17	25	38	45	49	29

ASTM E-90 & E 413

1/3 Octave Sound Absorption Coefficients at the Octave Band Frequencies

Frequency (Hz)	125	250	500	1K	2K	4K	NRC
2" Thickness	0.10	0.57	0.83	0.69	0.51	0.37	0.65

ASTM C 423



SPECIFICATIONS:

Visit www.soundseal.com
or call 1.800.569.1294

**12 COLORS
AVAILABLE!**



soundseal.com/vivid-bbc



www.soundseal.com



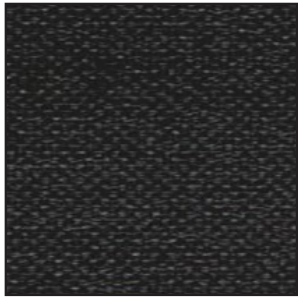
A CATALYST ACOUSTICS GROUP COMPANY



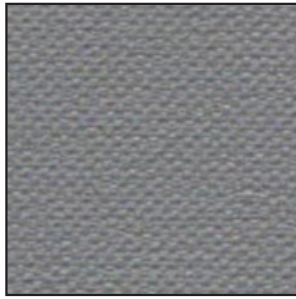
SOUND CURTAINS.
BY SOUND SEAL

VIVID™

INTERIOR/EXTERIOR ACOUSTICAL PRODUCTS
AVAILABLE COLORS



Raven Black



Silver Gray



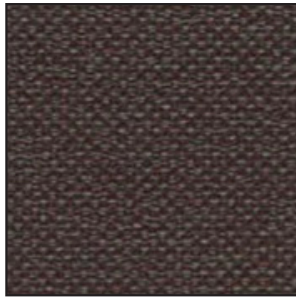
White



Ivory



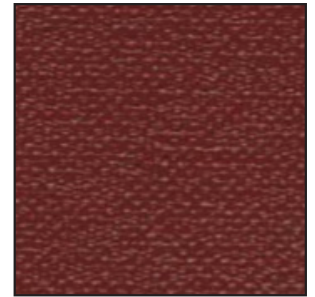
Tan



Chocolate Brown



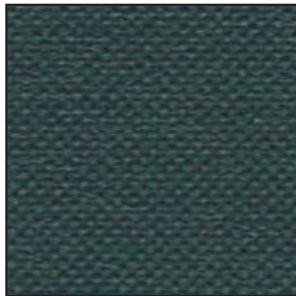
Terra Cotta



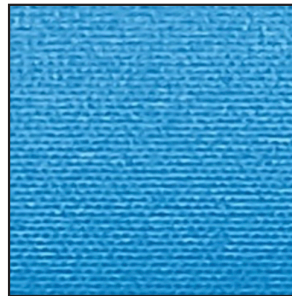
Burgundy



Red



Hunter Green



Ocean Blue



Royal Blue



Statement of Warranty and Life Expectancy

Sound Seal, Inc. of Agawam, Massachusetts, as the manufacturer of the SOUND SEAL PRODUCT LINE, hereby states the following warranty policy for our Sound Curtain products line:

For a period of one (1) year from the date of purchase, Sound Seal, Inc. guarantees that any and all Acoustical Products they manufacture will, when properly installed, maintain the high quality of fabrication and workmanship as when they were originally manufactured. This guarantee against defect is limited in liability to the repair or replacement of the curtain panel themselves, and for example would not cover any resultant damages, nor misuse or abuse, nor the removal and reinstallation of the panels. Additionally, this guarantee would not be applicable to misuse or abuse of the product, nor cover damages caused by conditions beyond our control such as high winds, floods, or other natural disasters. There is no other guarantee implied or inferred beyond this statement of warranty.

Life expectancy for Sound Seal panels used in the proper environments range from 5 to 10+ years. Sound curtain panels utilized in higher use abuse areas will wear out faster.

Mary Riemenschneider
Applications Engineer

Kijero

QTY	DESCRIPTION	COST	
1	Lot of B-10 R noise barrier panels to line 3 sides of an existing fence measuring 19'-8" x 104'-6" x 19'-8" x 12' high on all sides. B-10 R panels consist of a 1lb per square foot Reinforced Mass Loaded Vinyl - standard panels measure 54" x 144" - Grommets for attaching to fence (hardware by others) - Industrial Grade Velcro on long sides.	\$28500	
1	Freight,	\$1000	
1	Installation of material at customer's location	\$35000	Optional not included in quote

B -10 R Noise Barrier

Sound Seal's B-10 R is a flexible **reinforced** loaded vinyl noise barrier that offers maximum tear strength and durability. B-10 R Panels can be used where a noise barrier wall is required and is also commonly used in conjunction with Sound Seal Quilted Fiberglass Absorbers to form BBC style acoustical curtain composites.



- Rolls are available 54" wide up to 60' long
- Barrier will not curl or scratch
- Curtain Panels available with grommets and Velcro
- Limp, flexible, formable, versatile
- High tear and tensile strength, Extremely durable

Applications:

Typically used where a rugged, tear resistant noise barrier is required. Also used as a barrier back material in BBC style Acoustical Curtain Panels in an Acoustical Curtain Enclosure, acoustical jacket or wrap, and to serve as an accordion fold acoustical door. Suitable for outdoor use. Available in gray, tan, blue or olive.

Product Data:

Description	one pound per square foot reinforced loaded vinyl barrier
Nominal thickness	0.130 inches
Standard width	54" wide
Weight	1.0 lb psf
Tensile (PSI)	1470 lb/in ² per ASTM D 638
Hardness	85 $\pm$ 3, shore "A" per ASTM D2240

Acoustical Performance:

Sound Transmission Loss

Product	OCTAVE BAND FREQUENCIES (Hz)						STC
	125	250	500	1000	2000	4000	
B-10 R	13	17	22	26	32	37	26

Per ASTM E-90 & E 413

PICKLEBALL NOISE REDUCTION



DDS ACOUSTICAL
SPECIALTIES

Pickleball is a sport that has been sweeping the nation by storm. Clubs and municipalities are undergoing new construction or converting old tennis courts to make room for the surge of demand for Pickleball.

The game enjoyed by people of all ages to play has also been the source of various noise complaints. Often caused by the development or converting of courts nearby residential areas.

At DDS Acoustical Specialties, we've become experts in Pickleball noise. We've designed methods and best practices to mitigate noise and create an environment that all can enjoy.



Noise From Pickleball

Pickleball Noise is a fairly new phenomena. But with basic principles of noise mitigation we can reduce the negative effects that noise has on communities and neighbors. For Example:

1. Break Line of Sight
2. More Mass = More Noise Blocking
3. The taller and wider the barrier, the less opportunities for flanking noise
4. Place Absorption so that it faces the noise source



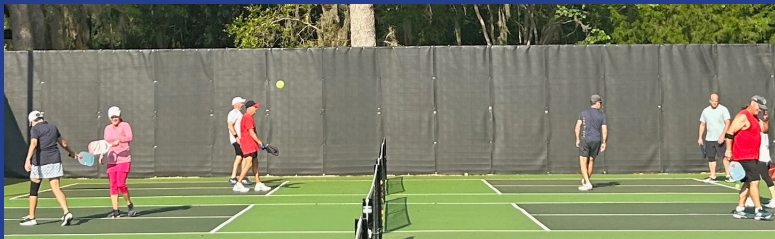
Noise source

Acoustic shadow

Pickleball Noise Control Options

Material solutions for pickle ball noise control range. The more mass a material has, the better it performs. Then, when you add sound absorption, results are even greater.

At DDS Acoustical Specialties our Pickleball Noise Barriers are manufactured using time tested products. All products are weather, UV, and tear resistant.



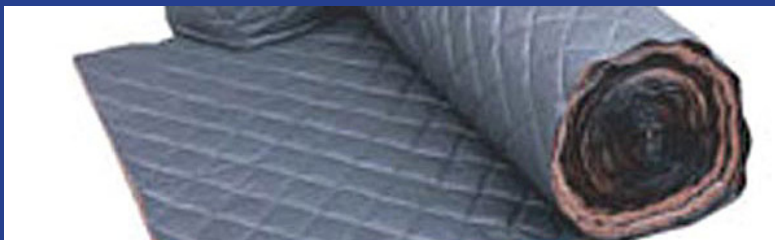
Noise Barrier Panels
Cost - \$
STC - Up to 32

Noise Barrier Panels are manufactured using a .5lb, 1lb, or 2lb/sq. ft. reinforced mass loaded vinyl that is tear, weather, and UV resistant.

Standard Panels are 54" x 120" but can be custom sized for any height fence.

Grommets are placed along the top and bottom edges. Industrial grade Velcro is stitched along the long edge for easy hanging and installation.

Barrier Colors: Black, Gray, Tan, Clear



Barrier + Absorber
Cost - \$\$
STC - Up to 40 NRC - .65

Adding a 1" thick quilted fiberglass absorber to the barrier assembly helps to reduce flanking noise and increase efficiency.

Absorber provided in rolls of 48" x 20' with grommets along the top and bottom.

The product absorbs approximately 65% of noise that hits it.

Absorber Colors: Black, Gray, Tan, Off White



Barrier/Absorber Composite
Cost - \$\$\$
STC - Up to 40 NRC - .65

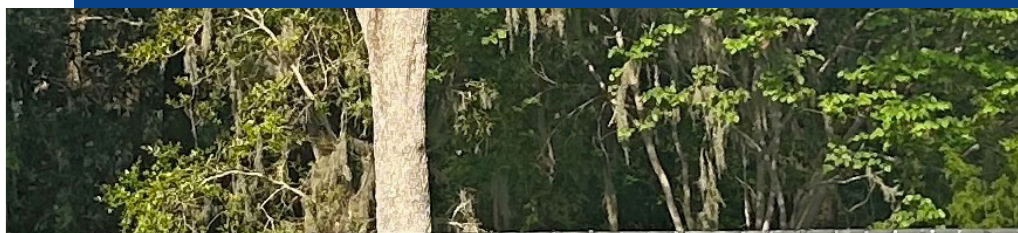
Using a combination of the above mentioned products. Barrier and absorber are stitched together in a single 54" x 120" panel.

Custom Sizing Available

Saves time on installation

Barrier Colors: Black, Gray, Tan, Clear

Absorber Colors: Black, Gray, Tan, Off White



NOISE BARRIER PANELS

**ACOUSTICAL PERFORMANCE:
SOUND TRANSMISSION LOSS PER OCTAVE BAND FREQUENCY**

	OCTAVE BAND FREQUENCIES (HZ)						
PRODUCT	125	250	500	1000	2000	4000	STC
.5lb/sqft	8	13	17	22	27	31	20
1lb/sqft	13	17	22	26	32	37	26
2lb/sqft	16	22	26	32	35	40	32

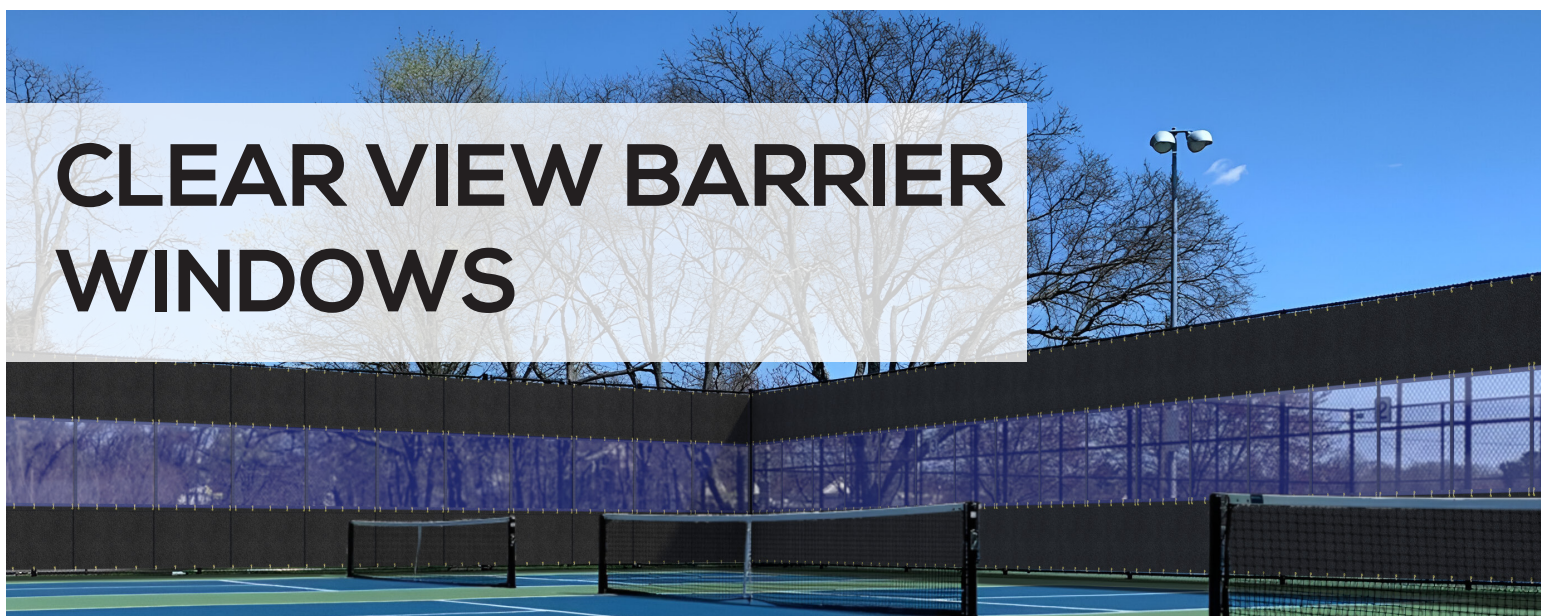
NOISE BARRIER + ABSORBER



BARRIER/ABSORBER COMPOSITE



CLEAR VIEW BARRIER WINDOWS



Morgan
Inglan



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Quotes for **"Pickleball Sound Barrier"**, may be submitted online, emailed to claird@bhamgov.org, by July 2, 2024

The City of Birmingham, Michigan is accepting quotes from qualified professional firms to supply a sound absorbing barrier to be attached to an existing 12 ft fence. This supply of product and delivery must be in accordance with the specifications contained in the Request For Quotes (RFQ)

The RFQ, including the Specifications, may be obtained electronically through the Michigan Inter-governmental Trade Network (MITN), accessed at from Bidnet Direct at <https://www.bidnetdirect.com/mitn> or at the City of Birmingham, 851 S. Eton, Birmingham, Michigan, ATTN: Carrie Laird

Submitted to MITN: June 25, 2024

Deadline for Submissions: **July 2, 2024 2:00pm**

Contact Person: Carrie Laird
851 S. Eton St.
Birmingham, MI 48009
Phone: 248-530-1714
Email: claird@bhamgov.org



REQUEST FOR QUOTES
Sound Barrier for Pickleball Courts

Contents

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SPECIFICATIONS OF PRODUCT AND DELIVERY

The Vendor shall perform the following services in accordance with the requirements as defined and noted herein:

1. The selected Vendor shall be responsible for the delivery of all materials in a safe and legal manner.
2. The Vendor will deliver the following product to Department of Public Services, 851 S. Eton, Birmingham, MI 48009.
3. In addition to any express warranties set forth in the Vendor's quotation, any statutory warranties or any warranties implied by law, Vendor expressly represents and warrants to City the Product(s) provided under the order shall (a) strictly conform to and/or operate in accordance with the applicable specifications and end-users' reasonable expectations, (b) be merchantable, free from defects in design, material and workmanship and shall be new and of highest quality; (c) be fit for the purpose for which they are intended and safe for any use that is consistent with the applicable specifications or that is reasonably foreseeable; and (d) be free and clear of all liens, claims or other encumbrances, and conveyed to City with good title; (e) conform to all industry standards and all applicable laws.

Sound Absorbing Product/Barrier

- The City desires a sound absorbing barrier that will attach to a 12 ft. existing fence on the southern end only of the Crestview Park Pickleball Courts in the City of Birmingham (diagram attached).
- Vendor to recommend the appropriate barrier to attach to an existing fence, based upon manufacturer's installation protocols. Installation instructions must be provided with Vendor's cost proposal.
- Vendor to provide evidence and a guarantee that the product they are proposing will absorb and reduce sound.
- The nearest residence to the Pickleball Courts is on the South end, approximately 90 ft away from the edge of the Pickleball Courts. Vendor to provide a demonstration of the barrier's ability to reduce sound at this distance including any diagrams and or sketches indicating how the sound is reduced or absorbed.
- Vendor to provide the appropriate length of the product or combination of products to achieve the desired outcome of reducing the sound along the southern end of the courts.
- As an alternate, Vendor may provide a cost for installation if able to do so. If not, label as N/A on the cost proposal.

Limited Warranty

1. Vendor warrants to City that from the date of shipment of the sound barrier that such will be free from material defects in material and workmanship and will warranty the product for a period of time. Vendor to submit length of warranty with the cost proposal.
2. Vendor shall not be liable for a breach of the warranty unless the City gives written notice of the defect, reasonably described to Vendor within thirty (30) days of the time when City discovers or ought to have discovered the defect. Vendor will have twenty-one (21) days to replace or repair the product.

ATTACHMENT B - BIDDER'S AGREEMENT
Sound Barrier for Pickleball Courts

In submitting this quote, as herein described, the Vendor agrees that:

1. They have carefully examined the specifications and terms of the Request for Quotes and all other provisions of this document and understand the meaning, intent, and requirement of it.
2. They will furnish the item or items in the time specified in conformance with the specifications and conditions contained therein for the price quoted by the proponent on this proposal.

Ayyaz Khan	Jul 02, 2024
PREPARED BY (Print Name)	DATE
CEO	Jul 02, 2024
TITLE	DATE
<i>Ayyaz Khan</i>	fed@miatlantic.us
AUTHORIZED SIGNATURE	E-MAIL ADDRESS
Morgan Inland LLC	
COMPANY	
380 TENNANT AVE. UNIT 3. MORGAN HILL, CA 95037	4159912400
ADDRESS	PHONE
NAME OF PARENT COMPANY	PHONE
ADDRESS	

ATTACHMENT C - COST PROPOSAL

Sound Barrier for Pickleball Courts

In order for the bid to be considered valid, this form must be completed in its entirety. The cost for the product and delivery as stated in the Request for Quotes documents is as follows:

COST PROPOSAL Sound Barrier for Pickleball Courts		
ITEM	QUANTITY	TOTAL AMOUNT
Sound Barrier Product (provide name below) <u>BBC-EXT-R-2" Acoustical Quilted Curtain</u>	1.00	\$ <u>25,047.63</u>
Delivery (if additional)	1.00	\$ <u>1200</u>
Product Guarantee to absorb sound If yes, please describe below:		Circle: YES or NO
Warranty: please describe below: Yes, 1 year warranty		
ALTERNATE		
Installation (if applicable)		\$ _____
GRAND TOTAL		\$ _____

Firm Name Morgan Inland LLC

ATTACHMENT D - IRAN SANCTIONS ACT VENDOR CERTIFICATION FORM

Sound Barrier for Pickleball Courts

Pursuant to Michigan Law and the Iran Economic Sanction Act, 2012 PA 517 ("Act"), prior to the City accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must certify that it is not an "Iran Linked Business", as defined by the Act.

By completing this form, the Vendor certifies that it is not an "Iran Linked Business", as defined by the Act and is in full compliance with all provisions of the Act and is legally eligible to submit a bid for consideration by the City.

Ayyaz Khan

Jul 02, 024

PREPARED BY
(Print Name)

DATE

CEO

Jul 02, 2024

TITLE

DATE

Ayyaz Khan

fed@miatlantic.us

AUTHORIZED SIGNATURE

E-MAIL ADDRESS

Morgan Ingland LLC

COMPANY

380 TENNANT AVE. UNIT 3. MORGAN HILL, CA 95037

4159912400

ADDRESS

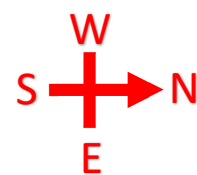
PHONE

NAME OF PARENT COMPANY

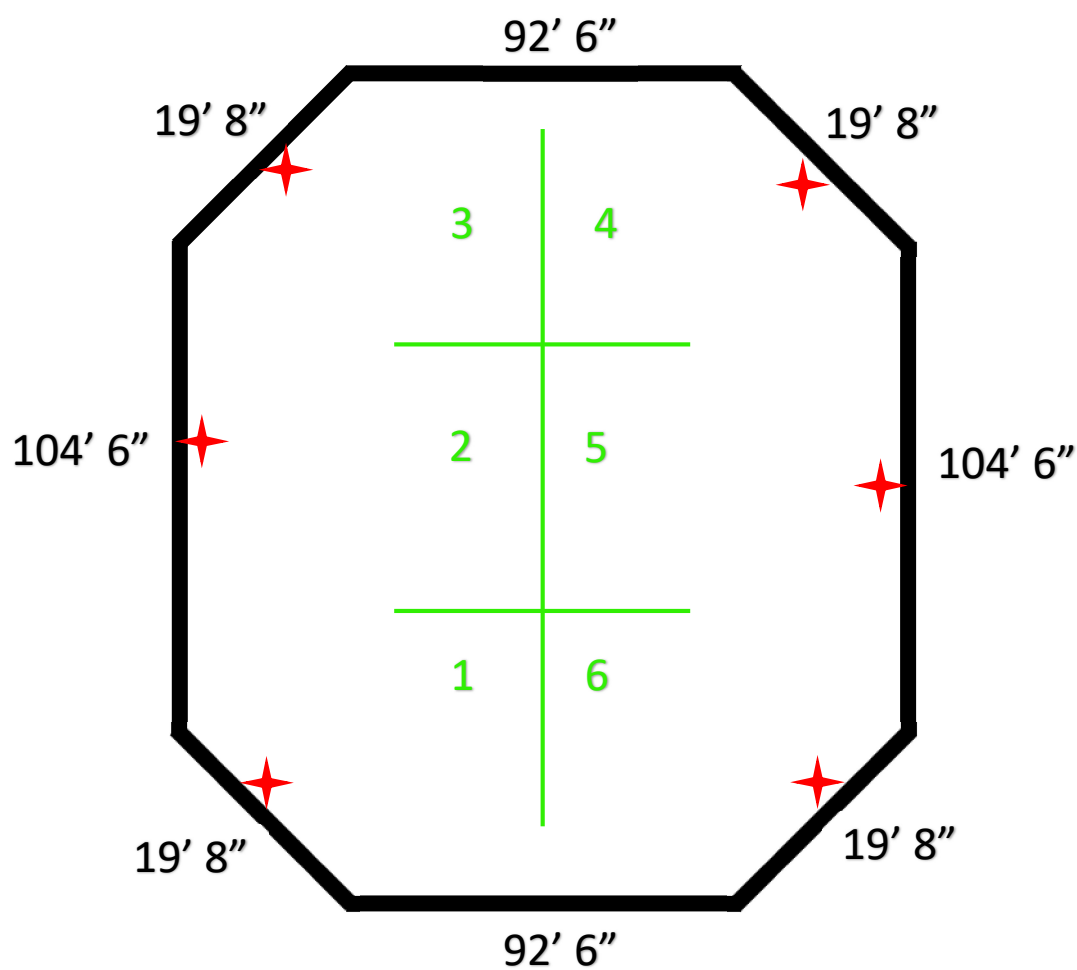
PHONE

ADDRESS

TAXPAYER I.D.# 979919401



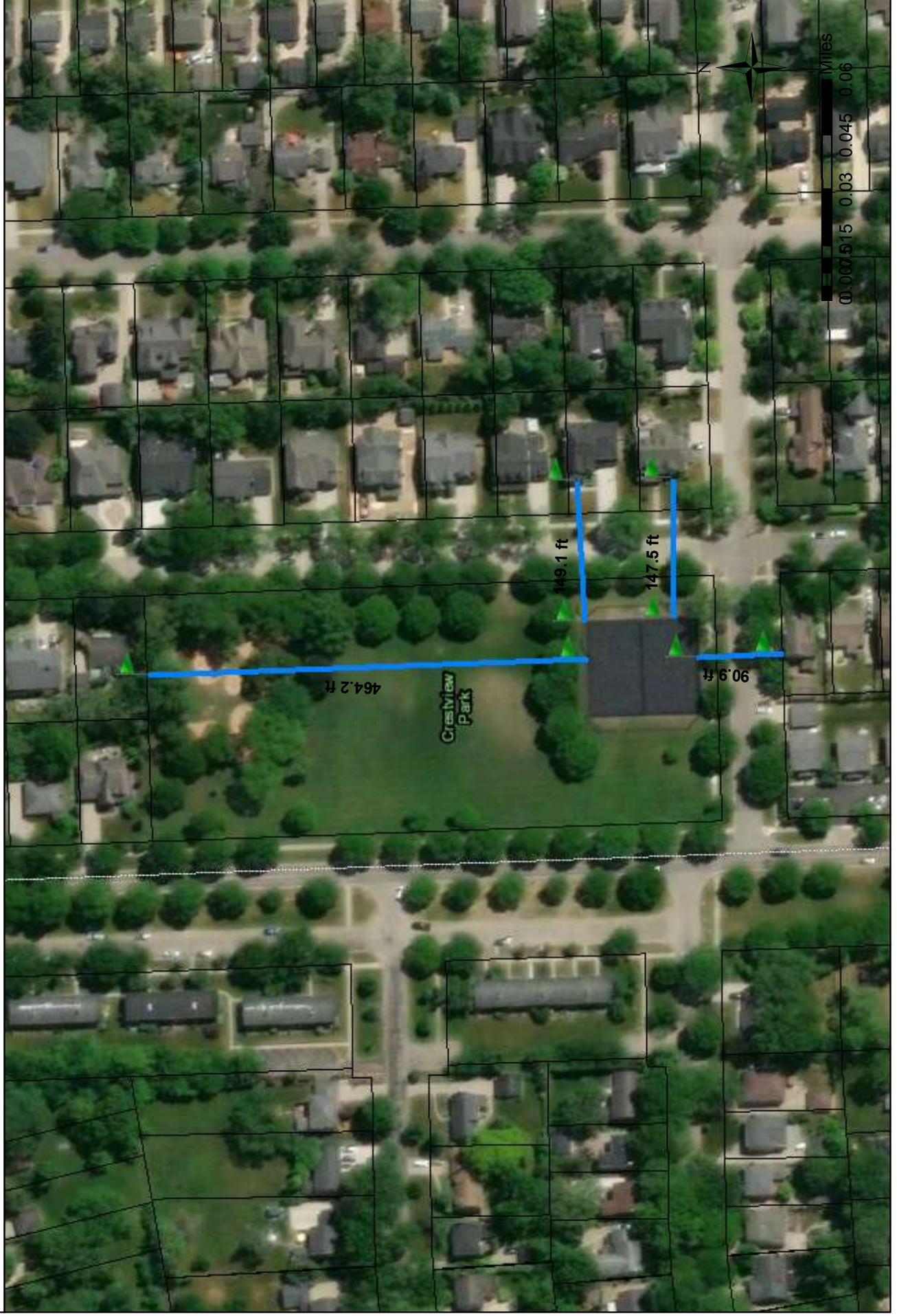
Southlawn



Shipman

★ = 12' height

Distance to nearby residences





EXTERIOR GRADE NOISE CONTROL

STOP NOISE

TM

ACOUSTICAL
SURFACES INC.

123 Columbia Court North, Chaska, MN 55318

P: 800.854.2948 • W: www.acousticalsurfaces.com • E: sales@acousticalsurfaces.com

BBC-EXT-R & BBC-EXT-R-2" PERMANENT STYLE

Most Durable – Long-term Sound Curtains



STEM lab

We are a Science, Technology, Engineering and Mathematics focused school with a dedicated science lab and STEM Coordinator. We are the only school in the curriculum their

STOP NOISE

TM

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"...a STEM degree could be the fast-track to financial and professional success."
every new grad is dreaming of."
Forbes, The 10 Best Paying College Majors - And Why



BBC-EXT-R & BBC-EXT-R-2"

PERMANENT STYLE

Most Durable – Long-term Sound Curtain

BBC-EXT-R AND EXT-R-2" PANELS offer the benefits of both a noise barrier and a sound absorber composite in one product for long-term/permanent, outdoor applications. This barrier-backed product consists of an exterior grade, UV resistant heavy duty VCP faced quilted fiberglass absorber bonded to a one-pound per sq. ft. reinforced loaded vinyl noise barrier. Modular curtain panels are constructed with grommets across the top and bottom, and exterior grade Velcro seals along the vertical edges. Panels are sewn with an exterior grade thread. This product is also available in roll form with edges bound or unbound.

FEATURES

- 1 lb. psf. reinforced MLV
- Wind Load up to 140 mph
- 1" thick or 2" thick quilted fiberglass sound absorber
- Maximum durability in all weather conditions
- Available quilt colors: gray, tan, black or off-white
- Available barrier colors: gray, tan or black

ACOUSTICAL RATING:

- EXT-R: 1" STC 29, NRC .65
- EXT-R-2: 2" STC 38, NRC .75

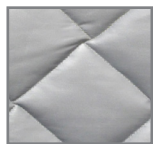
APPLICATIONS

- HVAC Equipment, Chillers
- Compressors, Generators
- Dust Collectors
- Shredders, Pumping Stations

SPECIFICATIONS

- VCP faced 1" or 2" quilted fiberglass reinforced vinyl noise barrier.
- 1 lb. psf. reinforced MLV
(Also available in 2 lb. psf. reinforced MLV upon request)
- Nominal thickness 1.0/2.0 inches
- Temperature range -20° to +180° F
- Standard panel width: 54" wide, lengths up to 20'.
- Standard roll width: 54" wide, 25' long
- Approximate Weight:
EXT-R: 1.2 lb. psf.
EXT-R-2": 1.4 lb. psf.

FACING COLORS



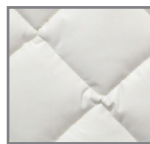
GRAY



TAN



BLACK



WHITE



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BBC-13X & BBC-13X-2"

MOST SPECIFIED

Most Popular – Sound Curtains



TM

ACOUSTICAL
SURFACES INC.

123 Columbia Court North, Chaska, MN 55318

P: 800.854.2948 • W: www.acousticalsurfaces.com • E: sales@acousticalsurfaces.com

BBC-13X & 13X-2" PANELS

MOST SPECIFIED

Most Popular – Temporary Sound Curtain

BBC-13X AND 13X-2 PANELS are our most widely used panels. They combine the benefit of both Noise Barrier (Rated in STC) and Sound Absorber (Rated in NRC) in one product. This product consists of a two-inch thick vinyl-coated-fiberglass-cloth faced quilted fiberglass absorber that is bonded to a one-pound per sq. ft. reinforced loaded vinyl noise barrier. "X" style Sound Curtain panels are constructed with grommets across the top and bottom, and exterior grade Velcro seals along the vertical edges.

FEATURES

- Most versatile temporary construction noise barrier
- Class A flammability rated per ASTM E-84
- 1 lb. psf. reinforced VCF
- Fabricated with grommets across top and bottom and exterior grade Velcro seams along edges
- Available quilt colors: gray, tan, black or off-white
- Available barrier colors: gray, tan or black

ACOUSTICAL RATING:

- 13X: 1" STC 27, NRC .70
- 3X-2: 2" STC 32, NRC .85

APPLICATIONS

With a minimum life span of 5 years* in the harshest environments, this product is typically used as a temporary noise barrier on outdoor applications such as construction site noise mitigation projects. BBC-13X-2" has been a recommended, specified and approved product to comply with the New York City Noise Ordinance Code.

TYPICALLY INSTALLED ON:

- Chain Link Fences
- Wooden Support Structures
- Jersey Barriers

SPECIFICATIONS

- VCF facing on 1" or 2" quilted fiberglass/1 lb-psf reinforced loaded vinyl noise barrier.
(Also available in 2 lb. psf reinforced VCF upon request.)
- Class A ASTM E-84 (Flame 23, Smoke 30)
- Nominal thickness 1.0/2.0 inches
- Temperature range -20° to +180° F
- Standard panel width: 54" wide, lengths up to 20'
- Standard roll size 54" wide x 25' long
- Approximate Weight:
 - 13X: 1.2 lb. psf.
 - 3X-2: 1.45 lb. psf.



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The background of the entire page is a photograph of a large, grey, diamond-shaped acoustic curtain installed along a highway. The curtain is made of heavy, textured material and is held up by a series of black posts. In the background, a grassy hillside and a clear blue sky are visible.

BBC-EXT-N & BBC-EXT-N-2

MOST ECONOMIC

Sound Curtains



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BBC-EXT-N & BBC-EXT-N-2

MOST ECONOMIC

Sound Curtains

BBC-EXT-N and BBC-EXT-N-2 combine a money saving, non-reinforced noise barrier with UV and tear resistant exterior grade faced quilted fiberglass sound absorbers. The barrier-backed EXT-N and EXT-N-2 style sound curtain offers the benefits of both sound absorption and noise barrier products in one for outdoor applications. A non-reinforced 1-LB or 2-LB psf. loaded vinyl barrier is bonded to a 1" or 2" thick exterior grade vinyl-coated-polyester faced quilted fiberglass absorber. Curtain panels are constructed with grommets across the top and bottom, and exterior grade Velcro seals along the vertical edges. The product is also available in roll form with edges bound or unbound.

FEATURES

- 1 lb. psf. non-reinforced MLV
- 1" or 2" thick exterior grade VCP faced quilted fiberglass absorber

ACOUSTICAL RATING:

- EXT-N: STC 29, NRC .65
- EXT-N-2: STC 33, NRC .75

APPLICATIONS

Typically used as an economic Sound Curtain on temporary construction projects, the exterior grade VCP facing is specifically formulated for outdoor applications. Composite products offer maximum noise reduction by both blocking and absorbing noise at job sites.

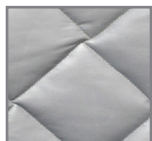
TYPICALLY INSTALLED ON:

- Temporary Fencing
- Scaffolding

SPECIFICATIONS

- 1" or 2" thick VCP faced quilted fiberglass bonded to a 1 LB/SF non-reinforced loaded vinyl barrier
- Nominal thickness 1.0/2.0 inches
- Temperature range -20° to +180° F
- Standard panel width: 54" wide, lengths up to 12'
- Standard roll size 54" wide x 25' long
- Approximate Weight:
EXT-N: 1.25 lb. psf
EXT-N-2: 1.45 lb. psf.

BBC-EXT-N & BBC-EXT-N-2 FACING COLORS



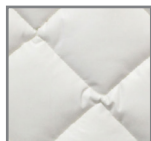
GRAY



TAN

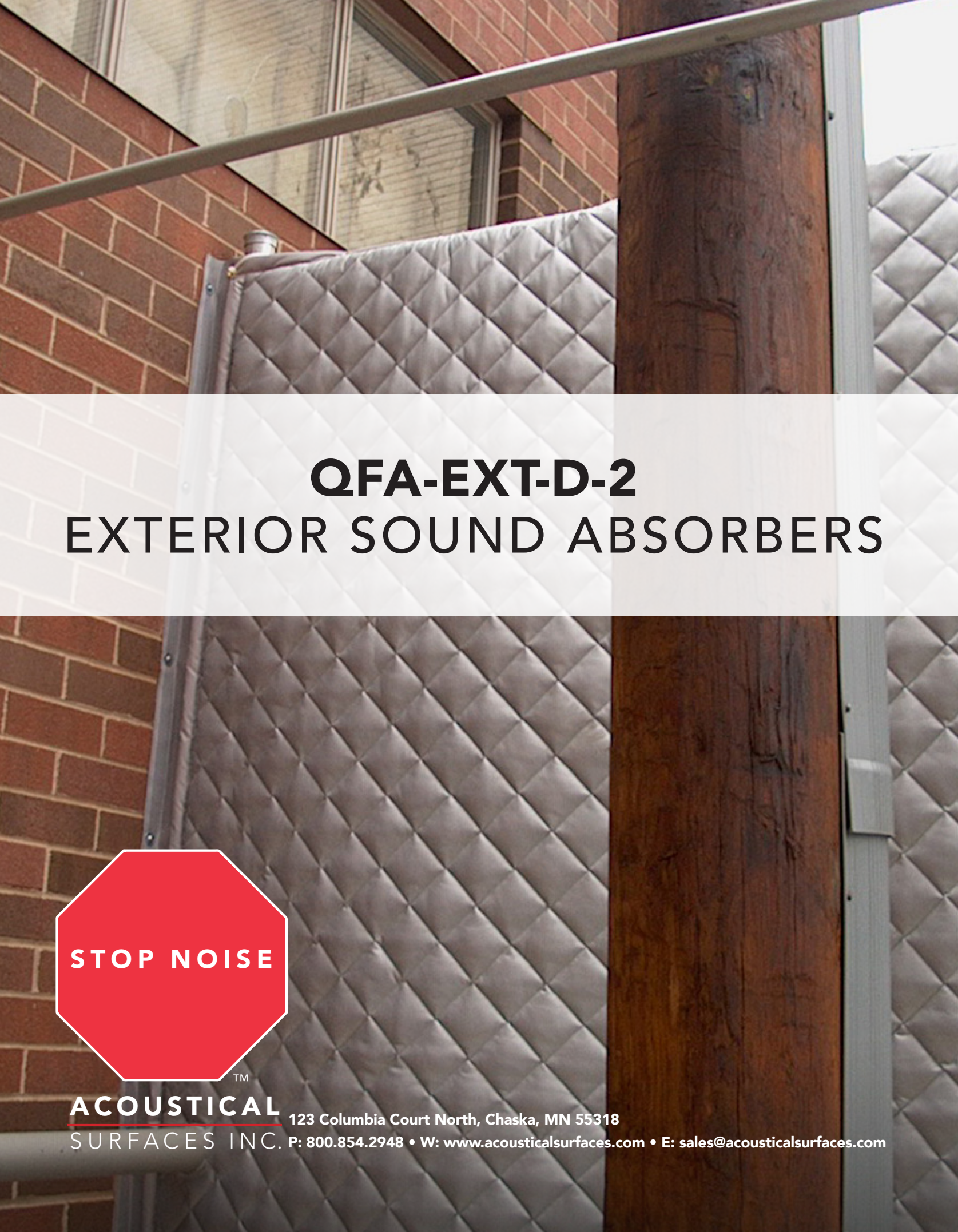


BLACK



WHITE





QFA-EXT-D-2

EXTERIOR SOUND ABSORBERS



ACOUSTICAL
SURFACES INC.

123 Columbia Court North, Chaska, MN 55318

P: 800.854.2948 • W: www.acousticalsurfaces.com • E: sales@acousticalsurfaces.com

QFA-EXT-D-2

EXTERIOR SOUND ABSORBERS

QFA-EXT-D-2 PANELS feature our UV and tear resistant exterior grade faced quilted fiberglass sound absorber sewn with a Gore Tenera thread.

FEATURES

- 2" thick
- Exterior grade facing on both sides
- Superior UV resistance

ACOUSTICAL RATING:

- STC 21, NRC .75

APPLICATIONS

Exterior Grade faced quilted fiberglass absorbers are used to reduce reverberant noise on outdoor noise sources such as enclosing HVAC equipment, dust collectors or similar.

TYPICALLY INSTALLED ON:

- Brick or Masonry Wall Structures
- Solid Wood Fences

SPECIFICATIONS

- Vinyl Coated Polyester (VCP) facing / 2" fiberglass batt
- Vinyl Coated Polyester (VCP) facing
- Nominal thickness 2.0 inches
- Temperature range -40° to +180° F
- Panel or Roll size 48" wide x 25' long, bound or unbound
- Weight: 0.50 lb. psf.



TESTIMONIALS

Bon Secours-Venice Hospital **SOUND ABSORBING CURTAIN**

Thank you for your follow-up call concerning our order and installation of ASI's Sound Absorbing Curtain.

We installed the panels of various lengths outside, around the perimeter of our cooling tower/mechanical roof and inside the stockade fencing surrounding an independent chiller and generator.

As a result, we are experiencing a noise reduction of at least 10dB at the street level, which accomplishes our desired goals.

I found Acoustical Surfaces very responsive and easy to work with. I appreciate all your help.

Joe T – General Manager Support Services
Bon Secours-Venice Hospital



PermaCity, Los Angeles, CA **ACOUSTICAL BLANKET SAVES THE DAY**

Photovoltaic Inverters come in a wide variety of shapes and sizes. The one we had installed was large, about 8 ft. tall, 5 ft. wide, and 3 ft. deep. Besides being so large, this inverter is extremely loud and makes a very high-pitch, whiny sound when on. This is always an issue, but in our case, this was a disaster. The inverter was installed in the heart of an elementary school. Needless to say, we were not allowed to run the inverter without first mitigating the sound. Through online research I came in touch with Acoustical Surfaces. They have a large assortment of products, but most importantly, a very knowledgeable staff. Their staff recommended an acoustical blanket rated for outdoor use. The blankets were made to the exact dimensions, so they fit the fenced enclosure around our inverter perfectly. The custom made products arrived in a timely manner and were super easy to install. I have to say, we are more than delighted with the sound level reduction! The inverter is on, and we are producing solar energy.

Project Engineer
PermaCity
Los Angeles, CA





ACOUSTICAL
SURFACES INC.

ACOUSTICAL PERFORMANCE DATA

BBC-EXT-R / BBC-EXT-5-2"

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-R	15	17	28	40	45	52	29

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-R	.18	.68	.74	.72	.42	.29	.65

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-R-2"	14	20	32	41	42	41	33

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-R-2"	.45	.96	.87	.66	.47	.28	.75

BBC-13-X / BBC-13-X-2"

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-13-X	11	16	24	30	35	35	27

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-13-X	.12	.47	.85	.84	.64	.62	.70

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-13-X-2"	13	20	29	49	50	55	32

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-13-X-2"	.07	.27	.96	1.13	1.08	.99	.85

BBC-EXT-N / BBC-EXT-N-2"

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-N	15	17	28	40	45	52	29

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-N	.17	.30	.83	.82	.59	.37	.65

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
BBC-EXT-N-2"	14	20	32	41	42	41	33

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
BBC-EXT-N-2"	.45	.96	.87	.66	.47	.28	.75

QFA-EXT-D-2"

SOUND TRANSMISSION LOSS

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	STC
QFA-EXT-D-2"	9	14	19	21	27	34	21

SOUND ABSORPTION DATA

OCTAVE BAND FREQUENCIES							
Product	125	250	500	1000	2000	4000	NRC
QFA-EXT-D-2"	.46	.94	.85	.64	.47	.33	.75

Noise S.T.O.P. Sound Blankets - Reinforced

BBC - EXT-R-2 Noise Barrier/Sound Absorber

Noise S.T.O.P. Sound Blanket

BBC-EXT-R-2 offers the benefits of both a noise barrier and a sound absorber composite in one product. This BBC product consists of an exterior grade, UV resistant heavy-duty faced quilted fiberglass absorber bonded to a one-pound per sq. ft. reinforced loaded vinyl barrier. The heavy-duty facing is a 10 oz per sq yd vinyl-coated-polyester (VCP) quilted to the sound absorber rather than the standard 4.5 oz facing. Curtain panels are constructed with grommets across the top and bottom and exterior grade Velcro seals along the vertical edges.



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Noise S.T.O.P. Sound Blankets - Reinforced



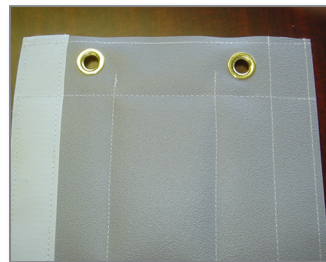
Barrier Color Options



Facing Color Options



Front



Back

FEATURES

- STC 33 Rating, NRC .75
- Available facing colors on quilt: gray, tan, black, white
- Available barrier colors: gray, tan, olive, blue
- Effective and durable absorber with mass loaded vinyl barrier option

MATERIAL

Vinyl coated polyester facing on 2" quilted fiberglass/ 1 lb-psf reinforced loaded vinyl barrier.

APPLICATIONS

Typically used as modular curtain panels in outdoor applications where high abuse resistance or excellent durability as well as maximum longevity and noise reduction is required. Also used as sliding acoustical doors, durable acoustical jacket on fans or valves, as well as a temporary noise barrier on outdoor construction projects.

WEIGHT

1.45 lb psf.

THICKNESS

Nominal 2".

SIZES

54" wide, lengths as required up to 25' high.

COLORS

Facing Colors on Quilt - Gray, tan, black or white.

Barrier Colors - Gray, tan, olive, or blue.

TEMPERATURE RANGE

-20° to +180° F.

Sound Blanket: Sound Transmission Loss - ASTM E90 & E413

Frequency	125H	250Hz	500Hz	1KHz	2KHz	4KHz	STC
BBC-EXT-R-2	14	20	32	41	42	41	33

Sound Blanket: Sound Absorption Performance - ASTM C423

Frequency	125H	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
BBC-EXT-R-2	.45	.96	.87	.66	.47	.28	.75

Test Reports & Additional Information Can be Found at:

https://www.acousticalsurfaces.com/curtain_stop/sound_blanket.htm



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MEMORANDUM

Department of Public Services

DATE: July 2, 2024

TO: Parks and Recreation Board

FROM: Connie Folk, Ice Arena and Facilities Superintendent

SUBJECT: Portable Toilets Located in City of Birmingham Parks

Since the early 80's the City of Birmingham has had portable restrooms located in the City of Birmingham Parks from mid-April until the end of October. During COVID the city added additional restrooms to Shain Park and Quarton Lake along the trail system as our park systems were being highly used. Our newest location for the 2024 season is Adams Park.

Currently the portable toilets are located at the following City of Birmingham Parks:

- Adams Park
- Barnum Park
- Booth Park
- Crestview Park
- Howarth Park
- Kenning Park
- Lincoln Well Site
- Pembroke Park
- Poppleton Park (One near the tennis court side)
- Poppleton Park (One located south of playground)
- Shain Park
- St. James
- Quarton Lake Trail (Along Lake Park Drive, between Pine and Oak)

During the winter months the restrooms at Crestview, Barnum, Booth and Shain Park remain as these are serviceable through our sanitation company.

The city currently uses Turner Sanitation and are very satisfied with their units and top notch service. The restrooms cost an average of \$75 per unit, per month and based on activity the restrooms could be serviced twice a week. When a restroom has been tipped over due to bad weather or if there has been any issues they will come out within 24 hours.