

Lesko, Robin A - DNR

From: Robert Reineke <rreineke@ksinghengineering.com>
Sent: Saturday, September 3, 2022 8:11 AM
To: Moll, John G - DNR (Gregory); shane@roerscompanies.com
Cc: Daniel Pelczar; Pfeiffer, Jane K - DNR
Subject: RE: Community Within The Corridor - East Block, BRRTS #07-41-590208 and #02-41-263675
Attachments: 0241263675_Historic Fill Exemption20220719.pdf; Engineered barrier details.pdf; Boring Logs_All.pdf; Figure 2 - Locations of Soil Probes, Monitoring Wells, Sub-Slab Vapor and Sub-Slab Soil Samples.pdf

**CAUTION: This email originated from outside the organization.
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Please see responses below.

Please let us know if you require any additional information.

Robert Reineke, PE

Principal Engineer | rreineke@ksinghengineering.com
262.821.1171, ext. 111 (p) | 262.424.5191 (cell)
www.ksinghengineering.com



From: Moll, John G - DNR (Gregory) <john.moll@wisconsin.gov>
Sent: Thursday, September 1, 2022 8:02 AM
To: shane@roerscompanies.com
Cc: Daniel Pelczar <dpelczar@ksinghengineering.com>; Robert Reineke <rreineke@ksinghengineering.com>; Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>
Subject: Community Within The Corridor - East Block, BRRTS #07-41-590208 and #02-41-263675

Dear Mr. LaFave,

I have reviewed your application for approval to build on an historic fill site, prepared on your behalf by K. Singh & Associates, in a document titled *"Development at Historic Fill Site or Licensed Landfill Exemption Application,"* dated July 20, 2022. The following additional information is needed to complete the application review.

1. Page 2 of application Form 4400-226 was not signed and dated by the property owner. Please provide a new application form that is signed and dated.

Please find the signed application attached.

2. A figure needs to be provided with your application to show where the proposed building activities (new asphalt and concrete pavement, parking garage ramp, and landscaped areas) are located.

Please find attached Figures showing the engineered barrier locations and details. Please note that this was submitted to the WDNR on March 19, 2021 as part of the Update to Post Closure Modification Request / Remedial Action Plan.

3. A methane assessment needs to be provided to determine whether the historic fill material or underlying undisturbed soil has the potential to generate methane gas. If the methane assessment does not include sampling for methane gas, an explanation needs to be provided for why the historic fill material and underlying soil do not present a risk for methane gas generation.

Please find attached the boring logs and a boring location map from the Site Investigation at the property. The boring logs demonstrate that subsurface soils consist of inorganic gravel, sand, silt, and clay. Peat and wood debris was not encountered in the subsurface. The material was called fill based on the presence of cinders, presumably from the former railroad spur on the property.

Further, soil samples were screened with an 11.7 eV PID capable of detecting methane. No indications of methane are present based on a consideration of the PID data and correlation of elevated readings with VOCs.

Therefore, the fill and underlying material is not methane producing.

4. A draft Cap Maintenance Plan needs to be provided to describe each type of protective barrier that will be used at the property. The draft Cap Maintenance Plan should include a figure indicating the location of each type protective barrier.

A Cap Maintenance Plan has not been prepared to date and was scheduled to be prepared as part of the Remedial Action Documentation Report / Case Closure Request when the project is complete documenting the condition of the Engineered Barrier. The Cap Maintenance Plan will follow the standard template from the WDNR and require annual inspection of the surface barriers and repairs and restoration as necessary. If necessary, we can provide a Cap Maintenance Plan now, but we believe that is part of the Remedial Action and not the Historic Fill Exemption. Please let us know how WDNR would like us to proceed.

The requested information can be submitted by email to me at john.moll@wisconsin.gov and the project manager for the case, Jane Pfeiffer at jane.pfeiffer@wisconsin.gov. Please feel free to contact me if you have questions concerning the requested additional information.

Best Regards,
Greg

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

J. Gregory Moll, P.G.

Hydrogeologist - Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
Southeast Region - Milwaukee Service Center
1027 W. St. Paul Ave.
Milwaukee, WI 53233
Phone: 262-202-3921
john.moll@wisconsin.gov



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Message Score: 30
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High (60): **Pass**
Medium (75): **Pass**
Low (90): **Pass**

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LETTER OF TRANSMITTAL

DATE : July 19, 2022

TO : Ms. Jennifer Dorman
Wisconsin Department of Natural Resources
Remediation and Redevelopment / Waste and Materials Management
1027 W. St. Paul Ave.
Milwaukee, WI 53233

FROM : Daniel K. Pelczar, CPG, P.G. | Senior Geologist

SUBJECT : Development at Historic Fill Site or Licensed Landfill Exemption Application,
Form 4400-226 (R 05/16)
Community Within the Corridor Limited Partnership - East Block
2748 N. 32nd Street, Milwaukee, WI 53210
BRRTS #: 02-41-263675; FID #: 241025400

COPY TO : File (40441); Mr. Shane LaFave / Roers Companies, LLC; and
Mr. Que El-Amin / Scott Crawford, Inc.

We are:

Attaching Submitting As Requested

Copies	Date	Description
1	7/19/2022	Development at Historic Fill Site or Licensed Landfill Exemption Application (submitted electronically)
1	7/11/2022	\$700.00 Check WDNR Review Fee (FedEx Mail)

Transmitted For Your:

Information/Records Review Approval
 Action (Signature/Date) Revision/Resubmittal Distribution

Remarks:

Should you have any questions regarding this submittal or require any additional information, please feel free to contact me via email at dpelczar@ksinghengineering.com or telephone at (262) 821-1171, ext. 112. We look forward to working with you on this project!

Notice: Use of this form is required by the DNR for any application to develop at a historic fill site or licensed landfill pursuant to secs. NR 506.085 and NR 500.08(4), Wis. Adm. Code. The Department will not consider your application unless you provide complete information requested. Personally identifiable information collected will be used to process your application and will also be accessible by request under Wisconsin's Open Records law [ss.19.31 - 19.39, Wis. Stats.]

Instructions: See *Development at Historic Fill Sites and Licensed Landfills: What you need to know* (PUB-RR-683, November 2013) for detailed instructions.

- All Exemption Application materials should be sent to the region where the site is located, as listed on page 6.
- Include \$700 fee payment with this application. If the site is a licensed landfill and the Waste and Materials Management program is doing the review, submit no fee now. You will be sent an invoice upon receipt of this application.
- Determine the appropriate exemption type for the site and check appropriate box below.
- Provide complete information requested for each type of exemption. Include the following attachments:
Required: Summary of Existing and Potential Impacts described in Section V as an attachment, under the seal of a professional engineer or geologist registered to practice in Wisconsin.

Optional: Site Visit Summary Comments (Section IX) including any photos, sketches or site visit notes.

Exemption Type	
<input checked="" type="checkbox"/> Remediation and Redevelopment Program NR 700 Rule Series Process Exemption: Site with remedial actions conducted in accordance with NR 700 series Required: Sections I - VI Optional: Sections VII - X	
<input type="checkbox"/> Case-by-Case Evaluation: Sites with anticipated environmental impacts or wastes of special concerns Required: Sections I - VI Optional: Sections VII - X	
<input type="checkbox"/> Expedited Exemption: Site with no expected environmental impact Required: Sections I - VI and Form 4400-226A Expedited Exemption Application Optional: Sections VII - X	

I. Applicant Information

Owner - Last Name	First	MI	Phone Number (include area code)
n/a	n/a		

Contact Name (if different)

Community Within the Corridor Limited Partnership

Street Address	City	State	ZIP Code
2748 N. 32nd St.	Milwaukee	WI	53210
Developer - Last Name	First	MI	Phone Number (include area code)
LaFave	Shane		(763) 285-8795
Street Address	City	State	ZIP Code
110 Cheshire Lane, Suite 120	Minnetonka	MN	55305

II. Site Name and Location

Site Name	Location / Address		
Community Within the Corridor - East Block	2748 N. 32nd St.		
Is the site known by another name(s)? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	<input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village		
If yes, provide name:	of Milwaukee		
Does the site have a license number? <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	State	ZIP Code	County
If yes, License Number:	WI	53210	Milwaukee

A. Attach a map with site location and limits of fill/waste disposal area.

B. Global Positioning System Coordinates	Describe method for collecting GPS Coordinates DNR Website.
Latitude DEG MIN SEC 43 04 08.4500 N Longitude DEG MIN SEC 87 57 13.0170 W	

Program Lead, Fee Status and Regulatory ID Numbers (This area for DNR use only)			
<input type="radio"/> Waste Management Bureau	<input type="checkbox"/> Payment Attached		
<input type="radio"/> Remediation and Redevelopment Bureau - Exemption is part of remedy under NR 700 program	Amount		
<input type="radio"/> Fee already paid for review of remedial design report.	\$		
<input type="radio"/> Review of remedial design report not requested and payment is attached.			
Hazardous Waste Facility License ID #: (5 digits)	DNR FID #: (9 digits)	USEPA ID #: (used for both RCRA & CERCLIS #s) (WI+Alpha+9 digits)	
Region	Project Manager	Telephone Number	

Development at Historic Fill Site or Licensed Landfill Exemption Application

Form 4400-226 (R 05/16)

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III. Site Ownership History

Previous Owner - Last Name		First	MI	Telephone Number	
Briggs and Stratton (manufacturing facility)		n/a			
Street Address		City		State	ZIP Code
2748 N. 32nd St.		Milwaukee		WI	53210
Responsible Municipal / Private Operator - Last Name (if applicable)		First	MI	Telephone Number	
n/a		n/a			
Street Address		City		State	ZIP Code
n/a		n/a			

IV. Evaluation of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

- A. Analytical data for the following media have been collected and/or examined before completing this application:
- Groundwater: Yes No
 - Soil: Yes No
 - Surface water / sediment: Yes No
 - Air: Yes No
 - Methane or other explosive gases: Yes No
- B. Based on known or suspected sources and wastes, their physical characteristics, containment and geologic environment, do you suspect a release of pollutants to the environment?
- Yes: Groundwater Soil Surface Water / Sediment Methane or Other Explosive Gases
- No
- C. If there is NOT a likelihood of a release of pollutants or evidence of a release, would the impact of the proposed development be likely to cause a release to the environment?
- Yes: If yes, be sure to summarize actions to be taken to prevent adverse environmental impacts in V. Part C below.
- No

V. Summary of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

Describe the following in an attached narrative under the signature of a qualified professional. Organize, label and package as listed below.

- Existing Site Conditions
 - existing site conditions including waste types,
 - potential for impacts, and
 - evaluation of existing impacts.
- Proposed Development Summary. Include explanation for overall site decision.
- Summary of actions to be taken and engineering controls that will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety.

VI. Certification of Application Information

I certify that information in this application and all its attachments is true and correct and in conformity with applicable Wis. statutes.

Print / Type Name of Applicant
 Mr. Shane LaFave / Community Within the Corridor Limited Partnership

Applicant Signature  Date Signed 7-19-22

Development at Historic Fill Site or Licensed Landfill Exemption Application

Form 4400-226 (R 05/16)

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Sections VII - IX are optional for all Applicants.

VII. Current and Historic Type of Waste Disposal Site (Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Licensed Landfill | <input type="checkbox"/> One-time Disposal |
| <input type="checkbox"/> Non-approved {See s.289.01(3)}, Wis Stats. | <input type="checkbox"/> Construction / Demolition |
| <input type="checkbox"/> Approved | <input checked="" type="checkbox"/> Historic Fill Site |

<p>Liner</p> <p><input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Clay Liner</p> <p><input type="checkbox"/> Lined <input type="checkbox"/> Unengineered</p> <p><input type="checkbox"/> Composite Liner</p> <p><input type="checkbox"/> Other Liner (Describe): _____</p>	<p>Total Landfill Volume</p> <p><input checked="" type="radio"/> < 50,000 yd³</p> <p><input type="radio"/> 50,000-500,000 yd</p> <p><input type="radio"/> > 500,000 yd³</p>
--	--

Does the landfill have a closure plan? Yes No Unknown

Does the landfill have a groundwater monitoring plan? Yes No Unknown

Have groundwater monitoring wells been installed? Yes No Unknown

Was a cover installed? Yes: No **If no, go to Past Land Uses.**

- Composite cap
- Layered soil cap with clay barrier
- Clay cap
- Soil cap - not recompacted clay
- Other cover
- Unknown

What is the thickness of the cover? < 6 in 6-12 in 12-24 in > 24 in Unknown

Past Land Uses. (Check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> Agricultural co-op | <input type="checkbox"/> Electroplater | <input type="checkbox"/> Salvage yard |
| <input type="checkbox"/> Brush pile | <input type="checkbox"/> Lagoon | <input type="checkbox"/> Service Station |
| <input type="checkbox"/> Bulk plant | <input checked="" type="checkbox"/> Manufacturing Type: <u>Briggs and Stratton</u> | <input type="checkbox"/> Tannery |
| <input type="checkbox"/> Coal gas manufacturer | <input type="checkbox"/> Old burn pit | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Deer pit | <input type="checkbox"/> Pipeline | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Dry cleaner | <input type="checkbox"/> RCRA generator | |

Date(s) of Site Operation

From: 01/01/1906 To: 01/01/1980 No. of Years: 74 Unknown

VIII. Waste Information & Geologic Environment. See Development at Historic Fill Sites and Licensed Landfills: Guidance for Investigation

A. Known or Suspected Sources/Wastes. (Check all that apply)

- | | | |
|--|---|--|
| <input type="checkbox"/> Abandoned containers | <input type="checkbox"/> Known or suspected hazardous materials | <input type="checkbox"/> Demolition/construction waste |
| <input type="checkbox"/> Above ground pipeline or tank | <input type="checkbox"/> Municipal waste | <input type="checkbox"/> Surface impoundment/lagoons |
| <input type="checkbox"/> Animal carcasses | <input type="checkbox"/> Paper mill sludge | <input checked="" type="checkbox"/> Underground pipeline or tank |
| <input type="checkbox"/> Buried drums | <input type="checkbox"/> Transformer | <input type="checkbox"/> Exempted fill [NR 500.08(1) and (2)] |
| <input type="checkbox"/> Burning of materials | <input type="checkbox"/> Trees/brush | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Foundry sand | <input checked="" type="checkbox"/> Surface spills | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Industrial accident | <input type="checkbox"/> Fly ash | |

B. Physical Characteristics of Sources/Wastes

Liquid Solid Liquid & Solid Unknown

VIII. Waste Information & Geologic Environment (continued)

C. Waste Containment Liner Unknown Not applicable

Engineered cover

Maintained Not maintained

Functioning leachate collection & removal system

Functioning & maintained run-off management system

Functioning groundwater monitoring system

D. Soil Type: Estimate distances or determinations based on regional or site specific information.

Regional Site specific

Clay, silt or other fine grained soils present? (lacustrine, tills, etc.) Yes No

At surface? Yes No At depth? Yes No 28.5 feet

Sand & gravel, coarse grained soils present? Yes No

At surface? Yes No At depth? Yes No

Variable feet *Sand & Silt Seams*

E. Depth to Groundwater

Regional Site specific 24 feet

F. Direction of Groundwater Flow

Regional Site specific SW direction

G. Depth to Bedrock

Regional Site specific 28.5 direction

H. Bedrock Type

Regional Site specific Sandstone Limestone/Dolomite Metamorphic/Igneous

IX. Site Visit

Conduct a site visit to complete site screening and determine general site conditions, on-site activities and adjacent land use encroachment issues. As appropriate to document the site, take photos, sketch the site and prepare a Site Visit Report.

On-site visit conducted? Yes No

General site conditions: Document any observed releases and note whether or not you were able to walk the site. Examples of things to be aware of include the following:

- leachate seeps or evidence of seeps such as stained soil/vegetation
- stressed vegetation as a sign of gas migration to the surface or of leachate seeps;
- quality and coverage of vegetation on the cap;
- odors which may indicate gas migration to the atmosphere;
- erosion of the cap;
- maintenance of positive drainage over the capped area;
- visual desiccation cracks in the cap.

Attach the following to your application:

Photographs, regular or digital Site sketch Site Visit Report

Name(s) of Person(s) Conducting Site Visit

Date of Site Visit

Robert T. Reinecke, P.E. & Daniel K. Pelczar, CPG, P.G.

01/01/2022

Development at Historic Fill Site or Licensed Landfill Exemption Application

Form 4400-226 (R 05/16)

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IX. Site Visit (continued)

A. Adjacent Land Uses. Indicate all directions. (Check all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> S	<input type="checkbox"/> E	<input checked="" type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input checked="" type="checkbox"/> SE	<input checked="" type="checkbox"/> SW
<input type="checkbox"/> Recreational	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input checked="" type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Undeveloped	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input checked="" type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Other: Railroad	<input type="checkbox"/> N	<input type="checkbox"/> S	<input checked="" type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW

B. Potential Groundwater Receptors. Estimate distances. (1 mile = 5,280 ft)

See attached map & logs.

Distance to and direction of nearest municipal well: _____ feet > ½ mile from the waste _____ direction

Distance to and direction of nearest other-than-municipal well: _____ feet > ½ mile from the waste _____ direction

Distance to and direction of nearest non-community well: _____ feet > ½ mile from the waste _____ direction

Distance to and direction of nearest private well: _____ feet > ½ mile from the waste _____ direction

Distance to and direction of nearest private well: _____ feet > ½ mile from the waste _____ direction

C. Potential For Gas Migration

3 No. of homes within 300 feet of waste (gas migration potential)

262 No. of homes between 300 & 1,000 ft to waste (gas migration potential)

Distance to and direction of nearest building: 0 feet > ½ mile from the waste _____ direction

Type of building: On-site building Municipal Residential Commercial Industrial Unknown

D. Potential Surface Water Receptors. Estimate distances

Creek _____ feet Drainage ditch: _____ feet Intermittent stream: _____ feet

River 12870 feet Lake _____ feet Wetland: _____ feet

E. Based on the site visit, did you visually observe...

1. a release to a surface water body? Yes No Unknown

2. a leachate seep? Yes No Unknown

3. a release to soils? Yes No Unknown

X. Comments: Use this section to provide comments on any aspect of the site visit. Attach any information or explanations labeled with the appropriate section number to which the material applies.

Please see the Site investigation Report (KSingh, November 2, 2021) for further information (BRRTS #: 02-41-263675).

Region Map

NORTHERN REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 107 Suttiff Avenue
 Rhinelander, WI 54501
 (715) 365-8976

OR

Regional Waste Program Manager
 Department of Natural Resources
 107 Suttiff Avenue
 Rhinelander, WI 54501
 (715) 365-8946

NORTHEAST REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 2984 Shawano Avenue
 Green Bay, WI 54313-6727
 (920) 662-5160

OR

Regional Waste Program Manager
 Department of Natural Resources
 2984 Shawano Avenue
 Green Bay, WI 54313-6727
 (920) 662-5120

SOUTHEAST REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 2300 N. Martin Luther King Drive
 Milwaukee, WI 53212
 (414) 263-8561 or (414) 263-8714

OR

Regional Waste Program Manager
 Department of Natural Resources
 2300 N. Martin Luther King Drive
 Milwaukee, WI 53212
 (414) 263-8694 or (414) 263-8697

WEST CENTRAL REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 1300 West Clairemont Avenue
 Eau Claire, WI 54701
 (715) 839-3710

OR

Regional Waste Program Manager
 Department of Natural Resources
 1300 West Clairemont Avenue
 Eau Claire, WI 54701
 (715) 839-3708

SOUTH CENTRAL REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 3911 Fish Hatchery Road
 Fitchburg, WI 53711
 (608) 275-3241

OR

Regional Waste Program Manager
 Department of Natural Resources
 3911 Fish Hatchery Road
 Fitchburg, WI 53711
 (608) 275-3466

**The State of Wisconsin
 Department of Natural Resources**

• *Region Offices*



V. Summary of Existing and Potential Impacts.

A. Existing Site Conditions

1. Existing site conditions including waste types,
 - *Within the soils both petroleum and chlorinated VOCs were detected along with PAHs, PCBs, arsenic and lead above Residual Contaminant Levels (RCLs) for the protection to groundwater and/or non-industrial direct contact exposure pathways. Soils analyzed for PFAS were either below the laboratory's method detection limit or were below the non-industrial direct contact exposure pathway. All other soil samples were below respective groundwater protection RCLs for pesticides and herbicides. Groundwater had detections of petroleum and chlorinated VOCs, naphthalene, arsenic, cadmium, chromium, and lead above state standards.*
2. Potential for impacts, and
 - *There are impacts to the soil, groundwater and sub-slab vapor which are documented in the Site Investigation Report (KSingh, November 2, 2021).*
3. Evaluation of existing impacts.
 - *Soil contamination is present at the site for CVOCs, PVOCs, PAHs, and Metals (arsenic, lead and selenium). The additional PFAS soil testing revealed that there are no concerns with PFAS. The majority of the CVOC impacts were defined to within the footprint of the buildings to an approximate depth of 5-feet.*
 - *Groundwater contamination is at the site for CVOCs, PVOCs, and PAHs within the northern courtyard area. From the newer wells installed and sampled during this SI there were no CVOCs nor PVOCs detected on the southern half of the site suggesting that there has not been an expansion of the known contaminated groundwater from the northern courtyard southward (03-41-000793 Jonas Construction – Closed LUST). In addition, it appears that CVOCs in soil have not impacted groundwater on the southern portion of the site. Local groundwater flow on the East Block appears to be to the southwest and on the West Block to the southeast with an overall regional flow to the southeast.*
 - *The majority of the buildings and additions had sub-slab vapor concentrations that were exceeding residential Vapor Risk Screening Levels (VRSLs), six areas exceeding small commercial VRSLs and three areas exceeding large commercial/industrial VRSLs.*
 - *Residential Indoor Air Vapor Action Limits (VALs) were exceeded for chloroform and TCE in all three of the exterior sanitary manholes along the easter side of N. 32nd St., and benzene exceeded Residential Indoor VALs in the tunnel.*

B. Proposed Development Summary. Include explanation for overall site decision.

- *The Community Within the Corridor Limited Partnership is proposing to redevelop the property (both the East and West Blocks) into a mix of affordable housing, commercial spaces, and other amenities. The proposed development includes the following: The Corridor Lofts (64 Units), Creme City Lofts (36 Units) & 30 Square Townhomes (6 Units) and the Briggs Apartment Homes (91 Units) and a Community Service Facility which will include early childhood education, Science, Technology, Engineering, Art & Math after school programming, a health club (Basketball, Volleyball & Futsal, Skatepark), laundromat and a petite grocery store. The property has been rezoned Industrial Mix to facilitate development of the project.*
- *No demolition of existing buildings is planned. The building interiors will be renovated and reconfigured. A ramp will be constructed to utilize the basement as a parking garage. Paved areas will be milled and paved or have pavement removed, be regraded, and then restored with asphalt.*

C. Summary of actions to be taken and engineering controls that will prevent or minimize adverse impacts and potential treats to human health and welfare, including worker safety.

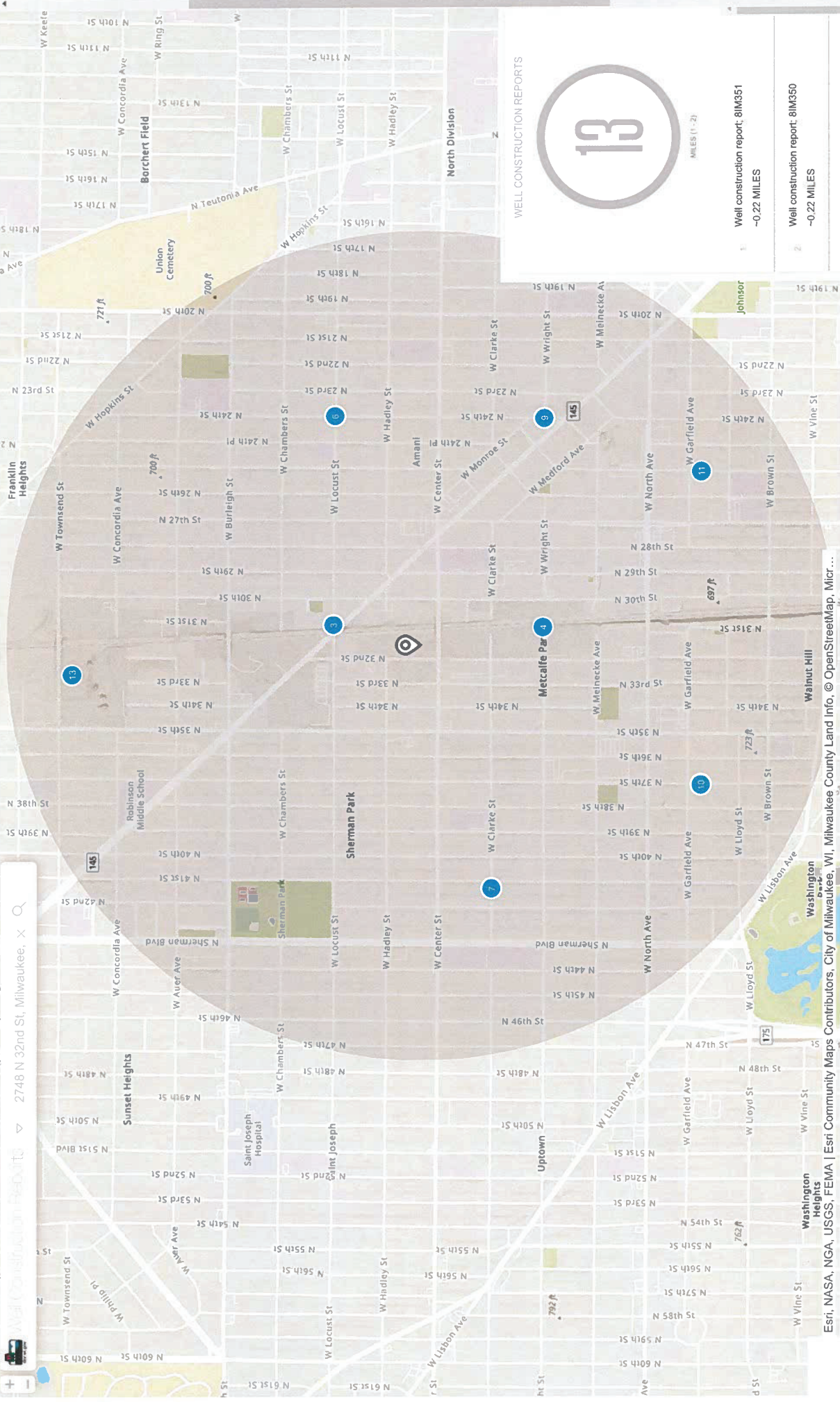
- *CVOCs hot spot removals are completed at the site which have reduced the mass of CVOCs within the buildings footprint as planned.*
- *Groundwater contamination has not migrated off-site and has been delineated and no further monitoring wells are necessary.*
- *Due to the shallow soil and vapor contamination of CVOCs within the buildings a vapor mitigation system is being installed as of the writing of this report.*
- *The tunnel has since been abandoned (filled in with concrete) and the manholes will be abandoned, and new laterals /manholes will be installed during the redevelopment thus, mitigating the risk of vapor intrusion into the building.*
- *Overall, this site will be closed with continuing obligations consisting of a barrier (buildings, asphalt parking lots, and landscaped areas) to prevent direct contact exposure to the impacted soil; and a large vapor mitigation system is being installed to decrease the risk of vapor intrusion into the building.*

IX. Site Visit.

B. Potential Groundwater Receptors.

See attached maps and well logs. Groundwater is assumed to be flowing regionally to the southeast towards the Milwaukee River and Lake Michigan.

Well Construction Reports 2748 N 32nd St, Milwaukee, WI



WELL CONSTRUCTION REPORTS



MILES (1-2)

- 1 Well construction report: 8IM351
-0.22 MILES
- 2 Well construction report: 8IM350
-0.22 MILES
- 3 Well construction report: 8IM349
-0.22 MILES

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3

TEST BORING RECORD received from well driller (no WCR was ever filed with DNR).

County: MILWAUKEE ¼, ¼, NE ¼, sec. 13, T 7 N, R 21 E

As of , street address is believed to be

309-03-BL-1926
KNAACK & SON CO., SUCCESSORS TO
WATRY-KNAACK & CO.
15 TEST BORING RECORD

HOLE NO 6 DATE 2/11/26

FIRM City

LOCATION 27th & Hadley

FORMATION	THICK- NESS	DEPTH
Red Sandy Clay	5	5
Blue Stony Clay	3	8
Sand Clay	3	11
Blue Stony Clay	7	18
Hard Pan	19	37
Bored to 22', completed with #35A		
<u>309-03-BL-1926</u>		



WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH
See Instructions on Reverse Side

4
AUG 14 1946

1. County Milwaukee } Town
Village Milwaukee
City
2. Location 1/2 block North of North Avenue in alley on 31st St.
3. Owner or Agent S.K. Williams Co. S¹/₂, S²/₂, SE, Sec 13 T 7N R 21E
4. Address 2330 North 31st St.
5. From well to nearest: Building _____ ft; sewer _____ ft; drain _____ ft; septic tank _____ ft;
dry well or filter bed _____ ft; abandoned well _____ ft.
6. Well is intended to supply water for: washing and plating

7. DRILLHOLE OR EXCAVATION:

Dia. (in.)	From (ft.)	To (ft.)
16"	0	40'
12"	40'	495'6"

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
12"	steel	0	86'6"

9. GROUT:

Kind	From (ft.)	To (ft.)
cement	0	40'

10. FORMATIONS:

Kind	Thick-ness (ft.)	Total Depth (ft.)
hard pan and boulders	67'	67'
coarse gravel	5	72
broken limestone	10	82'
limestone	409'6"	495'6"
MILWAUKEE CO. ING #23		
PERM. ABANDONED		

11. MISCELLANEOUS DATA:

Yield test: 4 Hrs. at 125 GPM.

Depth from surface to water: 80' ft.

Water-level when pumping: 94' ft.
d.d. = 14 spec cap = 8.9 gpm/ft

Water sample sent to laboratory at
see remarks on _____ 19_____

Construction of the well was completed on _____
January, 1946 _____ 19_____

The well is terminated 12" inches
(above) (below) the permanent grade.

Was the well disinfected upon completion?
Yes ~~see remarks~~ _____

Was the well sealed watertight upon completion?
Yes yes No _____

Signature: Layne Northwest Co. 709 North 11th St., Milwaukee, 3, Wisconsin
Registered Well Driller Complete Mail Address

Permit #29 _____

Geo. M. Hall

SEE OTHER SIDE

INSTRUCTIONS

ALL INFORMATION INDICATED ON THE FACE OF THIS FORM MUST BE GIVEN

PLEASE BE GUIDED BY THE FOLLOWING:

Numbers below correspond to numbers of items of the form on the opposite side.

- 1. Name of the County and the name of the Town, Village or City. Indicate which is given.
- 2. If Rural: Number and the 1/4 of the Section, the number of the Town North, and the number of the Range East or West.
If Urban: Name of the Street and the number of the Premise.
- 3. Name of the Owner. If the name of the owner cannot be given, give instead the name of the Agent. Indicate which is given.
- 4. Name of the Street and the number of the Premise or the number of the Mail Route, the name of the Post Office and the name of the State.
- 5. Distance, in feet, from the well to the nearest building and to each source of pollution shown.
- 6. Indicate: Home, farm, school, tavern, creamery, community, industry, etc.
- 7. Show the diameter and depth of the initial drillhole or excavation and each reduction in size to bottom. If well was reconstructed, show diameter and depth of original well on first line.
- 8. Show diameter and kind of casing pipe, liner pipe or curbing and actual position in the well, measured from the surface.
- 9. Show kind of material (mud or cement) used in sealing the annular space, from and to what depths from the surface. If neither was used indicate "none".
- 10. Show thickness of each formation and the total depth at the base thereof.
- 11. Provide the data indicated.

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumphrooms, connecting pits, etc., may be given here:

When permanent pump is installed during the month of August 1946, the well will be disinfected, water samples taken and submitted to the laboratory for analysis.

ML 14505-2

If more space is needed another sheet may be attached.

SEE OTHER SHEET

6

TEST BORING RECORD received from well driller (no WCR was ever filed with DNR).

County: MILWAUKEE ¼, ¼, NW¼, sec. 18, T 7 N, R 22 E

As of _____, street address is believed to be _____

310-19-BL-1926
KNAACK & SON CO. SUCCESSORS TO
WATRY-KNAACK & CO.
14 TEST BORING RECORD

HOLE NO 9 DATE 2/23/26
FIRM City
LOCATION 24th & Hadley

FORMATION	THICK-NESS	DEPTH
Red Clay	9	9
Stony Blue Clay	17	26
Hard Pan	2	28
Bored 12', finished with #35A		
-		
310-19-BL-1926		



This form was prepared in 1993 by WG&NHS staff.

WGNHS ORIGINAL

7

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

WAUWATOSA

1. County Milwaukee

Town Village City

2. Location 2519 No. 39th St.

SE NW SW Sec. 13

REC'D NOV 15 1955 T7N R21E

3. Owner or Agent Paul Mraz

Name of individual, partnership or firm

4. Mail Address 2519 No. 39th St. Milwaukee Wis.

Complete address required

5. From well to nearest: Building 22 ft; sewer 26 ft; drain 22 ft; septic tank ft; dry well or filter bed ft; abandoned well ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20			
6	20	73			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Steel	0	47

9. GROUT:

Kind	From (ft.)	To (ft.)
Mud	0	20

11. MISCELLANEOUS DATA:

Yield test: 3 Hrs. at 30 GPM.
 Depth from surface to water-level: 51 ft.
 Water-level when pumping: 53 ft.
 Water sample was sent to the state laboratory at:
 Madison on Oct. 11 1955
 City

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Clay Stone	0	18
Hard Pan	18	47
Limestone	47	73

Construction of the well was completed on:

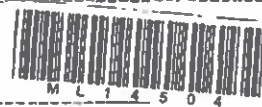
Oct. 11 1955

The well is terminated 8 inches above, below the permanent ground surface.

Was the well disinfected upon completion? Yes No

Was the well sealed watertight upon completion? Yes No

Signature *Lyle L. Simpson*
 Registered Well Driller
 Complete Mail Address *Box 91 R. 2, Hevensville Wis.*

Rec'd _____ No. _____
 Ans'd _____
 Interpretal  _____
 M L 1 4 5 0 4

10 ml 10 ml 10 ml 10 ml 10 ml
 Gas—24 hrs. _____
 48 hrs. _____
 Confirm _____
 B. Coll _____
 Examiner _____

Plot 2501

9

TEST BORING RECORD received from well driller (no-WCR was ever filed with DNR).

County: MILWAUKEE 1/4, 1/4, SW 1/4, sec. 18, T 7 N, R 22 E

As of _____, street address is believed to be _____

^{325-34-BL-1926}
KNAACK & SON CO., SUCCESSORS TO
WATRY-KNAACK & CO.

14 TEST BORING RECORD

HOLE NO 2/3/26 DATE 4

FIRM _____ City _____

LOCATION 26th & Wright

FORMATION	THICK- NESS	DEPTH
Sandy Red Clay	5	5
Sandy Blue Clay	5	10
Wet Sand	3	13
Blue Stony Clay	18	31
Sandy Clay	9	40
hard Pan	10-5	50-5
Bored		
<u>325-34-BL-1926</u>		



WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH
See Instructions on Reverse Side

10

1. County Milwaukee Town Wauwatosa
 Village City Check one and give name

2. Location 2137 N. 37th St. SW, NE, W, Sec 24, T7N, R21E
Name of street and number of premise or Section, Town and Range numbers

3. Owner or Agent Edwin Thierman
Name of individual, partnership or firm

4. Mail Address 4452 N. Sherman Blvd. Milwaukee 10 Wisc.
Complete address required

5. From well to nearest: Building 15 ft; sewer xx ft; drain 15 ft; septic tank 69 ft;
 dry well or filter bed 50 ft; abandoned well xx ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dis. (in.)	From (ft.)	To (ft.)	Dis. (in.)	From (ft.)	To (ft.)
10	0	20			
6	0	214			

8. CASING AND LINER PIPE OR CURBING:

Dis. (in.)	Kind	From (ft.)	To (ft.)
6	blk. Wd 19.45	0	79

9. GROUT:

Kind	From (ft.)	To (ft.)
Drill mud	0	20

11. MISCELLANEOUS DATA:

Yield test: 9 Hrs. at 8 GPM.
 Depth from surface to water-level: 60 ft.
 Water-level when pumping: 117 ft.
 Water sample was sent to the state laboratory at:
Madison City on 6/2 1955

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
clay		49
hardpan	20	69
gravel	10	79
limestone white	121	200
limestone WB	13	213

Construction of the well was completed on:

June 2 1955

The well is terminated 8 inches
 above, below the permanent ground surface.

Was the well disinfected upon completion?

Yes No

Was the well sealed watertight upon-completion?

Yes No

Signature Garber & Son B.G. Garber 5807 W. Hampton rd Milwaukee 16
Registered Well Driller Complete Mail Address

Please do not write in space below

Rec'd JUN 4 1955 No. 14923
 Ans'd _____
 Interpretation _____



SAFE

10 ml 10 ml 10 ml 10 ml 10 ml
 Gas—24 hrs. _____
 48 hrs. _____
 Confirm _____
 B. Coli _____
 Examiner O/S

Plat

County Milwaukee Twp. Midway City Sec. _____
 (Office Record - Do not fill in)
 NW, NW, Sec. 19 T. 7 N. R. 22 E. per mailing address

TO THE WISCONSIN STATE BOARD OF HEALTH,
 WELL DRILLING DIVISION, MADISON, WIS.

WELL LOG PREMISES DIAGRAM, and REPORT

For Official Record of the Board
 (TO BE USED FOR THAT PURPOSE ONLY)

Owner A. Baker Driller L. L. May
 (If a joint ownership give name of responsible official. Also name of each individual holding an interest. Use a separate sheet and attach hereto.)
 Address 2036 No. 25th St Address R-1 Cudahy Wis
 (City, village, township, county) Date of Report May 7 1937
Milwaukee Wis. Registration No. 392

Give below the location of the property on which well is drilled.
 If incorporated village or city: _____
 If unincorporated hamlet: _____
 If Lake Shore Plat: _____
 If Farm: _____
 If School: _____
 If other public building: _____
 Miscellaneous Private Kind _____ County Sec. 19 T. 7 N Twp. R. 22 E Sec. _____

WELL LOG and REPORT

Kind of casing and liner in feet. Kind of shoe. Indicate grout, screen, seal, etc.	WELL DIAGRAM Vertical Lines = in. Dia. Horizontal Lines = ft. Depth	Give depth of formations in feet. State if dry or water bearing.	Record of FINAL Pumping Test
5" Well casing Forged Steel Drive Shoe	0 2 4 6 8 10 12 14 16 18 20		Duration of test. Hours <u>5 hrs</u>
	22 24 26 28 30		Pumping Rate. G. P. M. <u>11</u>
	32 34 36 38 40		Depth of pump in well. Ft. <u>72</u>
	42 44 46 48 50		Standing water-level (from surface.) Ft. <u>68</u>
	52 54 56 58 60		Water level when pumping Ft. <u>60</u>
	62 64 66 68 70		Water. End of test. Check: Clear <input checked="" type="checkbox"/> Cloudy _____ Turbid _____
	72 74 76 78 80		Was well sterilized before test? Yes <input checked="" type="checkbox"/> No _____ Date _____
	82 84 86 88 90		To which Laboratory was sample sent? <u>Madison</u> Date _____
	92 94 96 98 100		Was the well sealed on completion? Yes <input checked="" type="checkbox"/> No _____
	102 104 106 108 110		How high did you leave casing above grade? <u>1 1/2"</u>
112 114 116 118 120		Well was completed <u>May 7 1937</u>	
		Well Driller <u>L. L. May</u> Signature	
		(Be sure to complete the report on the reverse side) Back is Blank	

*134 ft to Rock
142 ft Depth of well*



Well Construction Report				UH492		Drinking Water and Groundwater - DG/5				Form 3300-077A			
WISCONSIN UNIQUE WELL NUMBER						Department of Natural Resources, Box 7921 Madison WI 53707							
Property Owner UNITED MILWAUKEE SCRAP						Phone # (414)444-7480							
Mailing Address 3295 W TOWNSEND DR						City of MILWAUKEE							
City MILWAUKEE						State WI		Zip Code 53216					
County Milwaukee		Co. Permit #		Notification # 29921784		Completed 07-03-2008		Street Address or Road Name and Number 3295 W TOWNSEND DR					
Well Constructor (Business Name) MICHAEL G HARTMAN						Lic. # 436		Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)			
Address MICHAEL HARTMAN WELL DRLG & PUMP NORTH LAKE WI 53064-0218						Well Plan Approval #		Approval Date (mm-dd-yyyy)		Method Code			
Hicap Permanent Well #		Common Well #		Specific Capacity 0.4		NW		SE		Section Township Range			
3. Well serves 1 # of BUILDING						Hicap Well ? No		Private, potable		Hicap Property ? No			
Heat Exchange ___ # of drillholes						Hicap Potable ?		Construction Type Drilled		Reason for replaced or reconstructed well ? NEW CONSTRUCTION			
4. Potential Contamination Sources - ON REVERSE SIDE													
5. Drillhole Dimensions and Construction Method						8. Geology							
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock		Geology Codes			
6		Surface		205		Rotary - Mud Circulation		Rotary - Air		8. Geology Type, Caving/Noncaving, Color, Hardness, etc...			
						Yes		No		From (ft.) To (ft.)			
						Rotary - Air & Foam		Drill-Through Casing Hammer		- - C - CLAY Surface 20			
						Reverse Rotary		Cable-tool Bit ___ in. dia...		- - P - HARDPAN 20 80			
						Dual Rotary		Temp. Outer Casing ___ in. dia		- - L - LIMESTONE 80 205			
						Removed? ___ depth ft. (If NO explain on back side)							
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is				
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly				From (ft.)		To (ft.)	60 ft. below ground surface			18 in. above grade	
6		0.280 A 53 GRB WHEATLAND STEEL WELDED				Surface		81	10. Pump Test			Developed ? Yes	
Dia. (in.)		Screen type, material & slot size				From (ft.)		To (ft.)	Pumping level 100 ft. below surface			Disinfected ? Yes	
									Pumping at 15 GP M for 4 Hrs.			Capped ? Yes	
									Pumping Method ?				
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?							
Method MOUNDED						Filled & Sealed Well(s) as needed? No							
Kind of Sealing Material		From (ft.)		To (ft.)		# Sacks Cement		NO WELL					
CRUMBLES		Surface						13. Constructor / Supervisory Driller					
						MH		Lic #		Date Signed			
						MA		Lic or Reg #		Date Signed			
										07-07-2008			

4a. Potential Contamination Sources

Is the well located in floodplain ? No

Comment:

Water Quality Text:

Water Quantity Text:

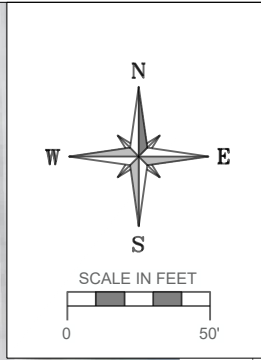
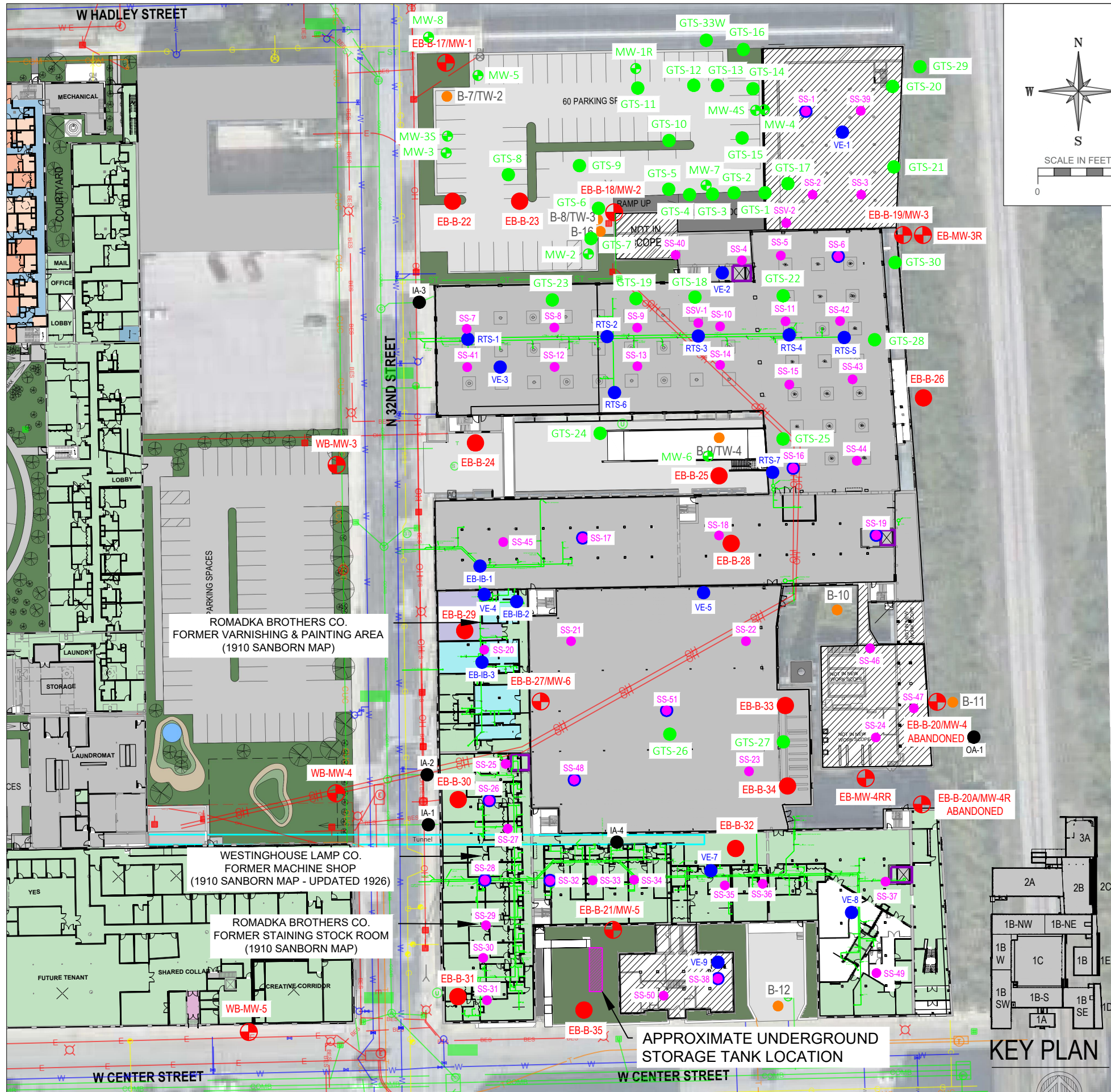
Difficulty Text:

Created On: 08-05-2008

Created by: WELL CONST LOAD

Updated On: 08-05-2008

Updated by: WELL PROCESS



FLOOR FINISH LEGEND	
[Color swatch]	ATH-1 ATHLETIC FLOORING - FLEXIBLE / NON-ADHERED
[Color swatch]	CPT-1 BROADLOOM CARPET (UNIT BEDROOMS)
[Color swatch]	CT-1 CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
[Color swatch]	ERF-1 EPOXY RESINOUS FLOORING
[Color swatch]	EXTG-WD EXISTING WOOD FLOORING TO REMAIN IN PLACE & BE REFINISHED
[Color swatch]	EXTG-WS EXISTING CONCRETE SLAB WITH WEATHER SEAL
[Color swatch]	LVT-1 LUXURY VINYL TILE (UNIT BATHROOMS)
[Color swatch]	PC-1 POLISHED CONCRETE
[Color swatch]	RF-1 RUBBER FLOORING
[Color swatch]	SC-1 SEALED CONCRETE
[Color swatch]	WD-SV SALVAGED WOOD - REMOVED, REINSTALLED AND REFINISHED (SALVAGED WOOD WILL BE REINSTALLED IN CORRIDORS FIRST THEN CONTINUE INTO UNITS - IF THERE IS NOT ENOUGH QUANTITY - INSTALL NEW WOOD FLOORING TO MATCH HISTORIC SIZE)

- LEGEND**
- [Green line] Planned Underground Plumbing
 - [Blue line] Underground Tunnel
 - [Green circle] Historic Well Locations (10)
 - [Green circle] Historic Soil Probe and Temporary Well Locations (31)
 - [Orange circle] Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
 - [Red circle] Monitoring Well Locations (6)
 - [Red circle] Soil Probe Locations (13)
 - [Blue circle] Sub-Slab Soil Sampling Locations (28)
 - [Purple circle] Sub-Slab Vapor Sampling Locations (51)
 - [Green circle] Air Sampling Locations (5)
 - [Pink hatched box] Approximate Underground Storage Tank Location

NOTE:

- COMBINATION OF EXISTING AND PROPOSED PLUMBING

- | | | | |
|----------|----------------------------|----------|---------------------------|
| [Symbol] | EX. AIR CONDITIONER | [Symbol] | EX. UG. GAS |
| [Symbol] | EX. GAS VALVE | [Symbol] | EX. UG. ELECTRIC |
| [Symbol] | EX. GAS METER | [Symbol] | EX. OVERHEAD WIRES |
| [Symbol] | EX. ELECTRIC METER | [Symbol] | EX. BUREAU OF ELEC. SERV. |
| [Symbol] | EX. ELECTRIC PEDESTAL | [Symbol] | EX. UG. COMBINED SEWER |
| [Symbol] | EX. ELECTRIC MANHOLE | [Symbol] | EX. CITY UG. CONDUIT/COMM |
| [Symbol] | EX. ELECTRIC TRANSFORMER | [Symbol] | EX. SANITARY SEWER (SAN) |
| [Symbol] | EX. POWER / TELEPHONE POLE | [Symbol] | EX. STORM SEWER (STO) |
| [Symbol] | EX. LIGHT POLE | [Symbol] | EX. UG. COMMUNICATIONS |
| [Symbol] | EX. TELEPHONE PEDESTAL | [Symbol] | EX. UG. TELEPHONE |
| [Symbol] | EX. STORM MANHOLE | [Symbol] | EX. UG. FIBER OPTICS |
| [Symbol] | EX. CATCH BASIN SQUARE | [Symbol] | EX. UG. CABLE TELEVISION |
| [Symbol] | EX. CLEANOUT | [Symbol] | EX. WATER MAIN |
| [Symbol] | EX. SANITARY MANHOLE | | |
| [Symbol] | EX. UNKNOWN MANHOLE | | |
| [Symbol] | EX. COMBINED SEWER MANHOLE | | |
| [Symbol] | EX. TELEPHONE MANHOLE | | |
| [Symbol] | EX. WATER VALVE | | |
| [Symbol] | EX. HYDRANT | | |

- SAMPLE ID CODES:**
- EB = EAST BLOCK
 - B = BORING
 - TW = TEMPORARY WELL
 - MW = MONITORING WELL
 - SS = SUB-SLAB
 - VE = VAPOR EXTRACTION POINT
 - IB = INTERIOR BORING
 - RTS = REPRESENTATIVE TRENCH SAMPLE
 - IA = INDOOR AIR
 - OA = OUTDOOR AIR

CONSULTANT
 CONSULTANT
 CONSULTANT

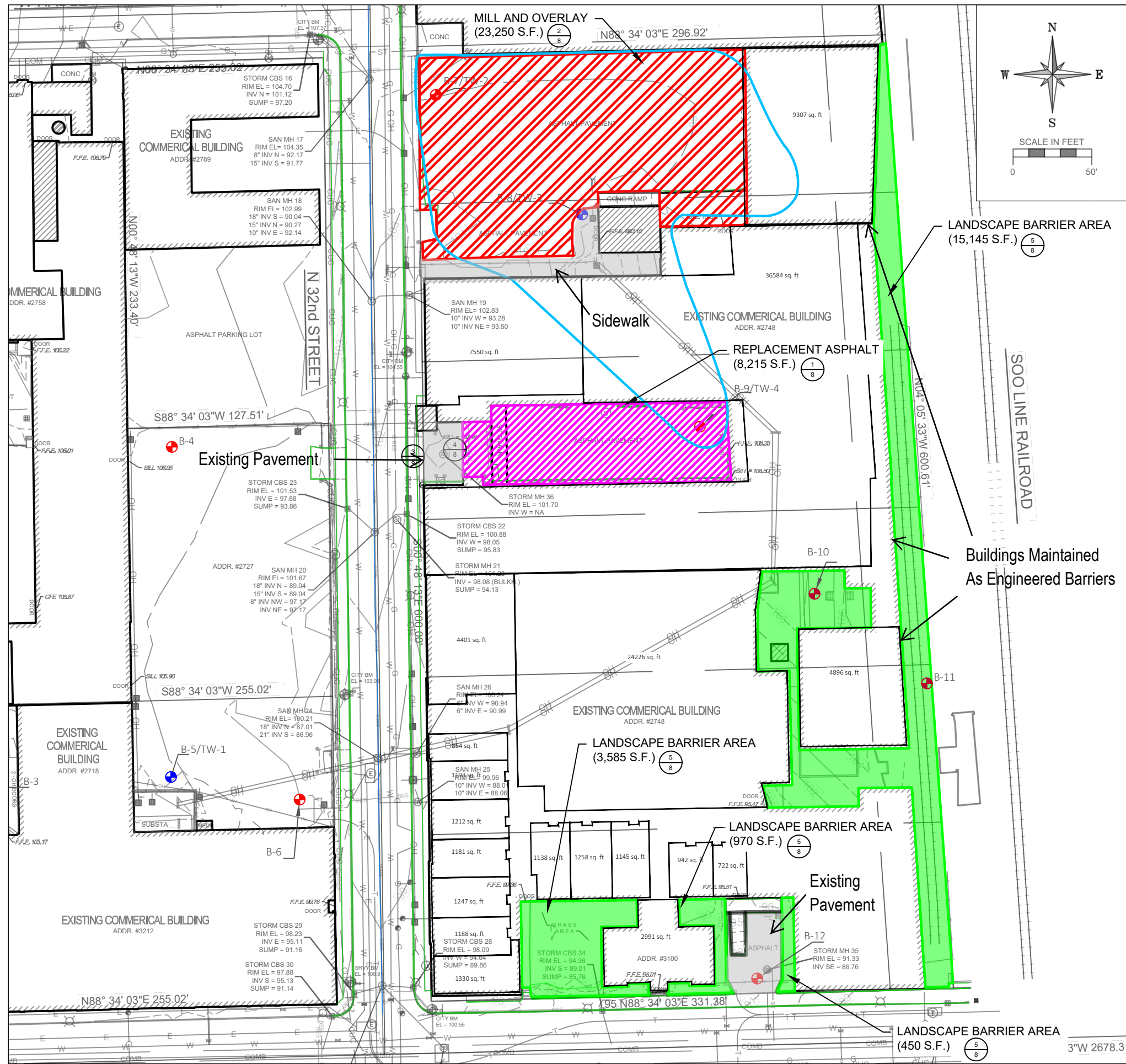
PROJECT TITLE: SITE INVESTIGATION REPORT
 COMMUNITY WITHIN THE CORRIDOR
 2748 N. 32nd Street
 MILWAUKEE, WI 53210
 PROJECT NUMBER: 40449

CLIENT: COMMUNITY WITHIN THE CORRIDOR LIMITED PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

DRAWN BY: JDS DATE: 09/01/22
 CHECKED BY: RR DATE: 09/01/22

FIGURE 2
 LOCATIONS OF SOIL PROBES, MONITORING WELLS, SUB-SLAB VAPOR AND SUB-SLAB SOIL SAMPLES



SOIL BORINGS AND TEMPORARY WELL LOCATIONS

- VOCs, PAHs, RCRA Metals, PCBs
- VOCs, PAHs, RCRA Metals
- VOCs, SVOCs, RCRA Metals, PCBs, Pesticide, Herbicides
- NR 720 RCL Exceedance Extents

ABBREVIATIONS:

- AC = ACRES
- ARC = ARC OF CURVE
- ASPH = ASPHALT
- BM = BENCHMARK
- CH = CHORD LENGTH
- COR = CORNER
- CSM = CERTIFIED SURVEY MAP OR MAPPING
- C.T.H. = COUNTY TRUNK HIGHWAY
- D = DELTA
- DEG = DEGREE OF CURVE
- E = EAST
- EL = ELEVATION
- EX = EXISTING
- EXC. = EXCEPTION
- FFE = FINISH FLOOR EL.
- FND = FOUND
- GFE = GARAGE FLOOR EL.
- GND = GROUND
- INV. = INVERT
- IP = IRON PIPE
- IRD = IRON ROD
- MEA = MEASURED
- NAD = NORTH AMERICAN DATUM
- N = NORTH
- NE = NORTHEAST
- NO. = NUMBER
- NW = NORTHWEST
- PG. = PAGE
- QTR = QUARTER
- REC = RECORDED AS
- RIM = RIM OR TOP POINT
- R/W = RIGHT OF WAY
- S = SOUTH
- SE = SOUTHEAST
- SEWRPC = SOUTHEAST WISCONSIN REGIONAL PLANNING COMMISSION
- C.T.H. = STATE TRUNK HIGHWAY
- SW = SOUTHWEST
- SUR = SURVEYED
- U.S.H. = UNITED STATES HIGHWAY
- U.S.G.S. = UNITED STATES GEOLOGICAL SURVEY
- VAR = VARIES
- VPI = VERTICAL POINT OF INTERSECTION
- W = WEST

LEGEND:

- SECTION CORNER MONUMENT
- EX. CHISELED CROSS FOUND
- EX. IRON ROD FOUND
- EX. IRON PIPE FOUND
- EX. STORM MANHOLE
- EX. CATCH BASIN ROUND
- EX. CATCH BASIN SQUARE
- EX. SIAMESE HYDRANT
- EX. GAS VALVE
- EX. AIR CONDITIONER
- EX. ELECTRIC METER
- EX. GAS METER
- EX. ELECTRIC PEDESTAL
- EX. TELEPHONE PEDESTAL
- EX. CLEANOUT
- EX. POWER POLE
- EX. MONITORING WELL OR CORING
- EX. MAILBOX
- EX. SANITARY MANHOLE
- EX. UNKNOWN MANHOLE
- EX. COMBINED SEWER MANHOLE
- EX. ELECTRIC MANHOLE
- EX. ELECTRIC TRANSFORMER
- EX. TELEPHONE MANHOLE
- EX. GUY WIRE
- EX. LIGHT POLE
- EX. SIGN
- EX. BOLLARD (BOL)
- EX. WATER VALVE
- EX. OVERHEAD WIRES
- EX. BUREAU OF ELECTRICAL SERVICES
- EX. FENCE LINE
- EX. COMMUNICATIONS
- EX. TELEPHONE LINE
- EX. GAS LINE
- EX. FIBER OPTICS
- EX. SANITARY SEWER (SAN)
- EX. STORM SEWER (STO)
- EX. WATER MAIN
- EX. TREE LINE
- UNDERGROUND COMBUSTIBLE GAS LINE

- OH
- BES
- X X
- COM
- T
- G
- FIB
- SS
- ST
- W



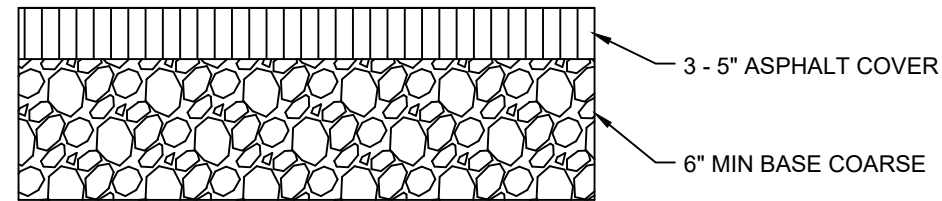
PROJECT TITLE: COMMUNITY WITHIN THE CORRIDOR
MILWAUKEE, WI
PROJECT NUMBER: 40405

CLIENT: COMMUNITY WITHIN THE CORRIDOR LIMITED
PARTNERSHIP

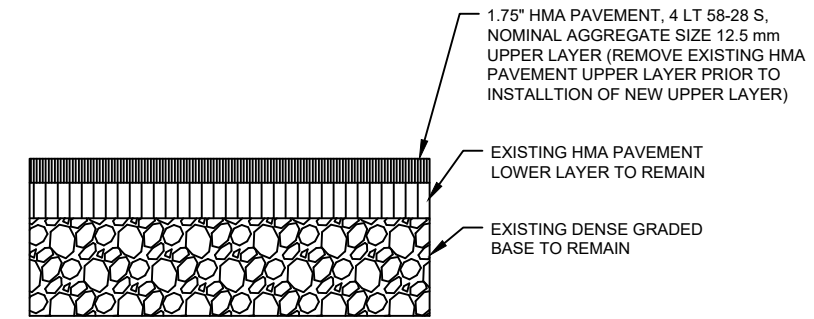
REVISIONS	DATE	DESCRIPTION

DRAWN BY: AMZ DATE: 01/29/2021
CHECKED BY: KVH DATE: 01/29/2021
SHEET TITLE: ENGINEERED BARRIER PLAN

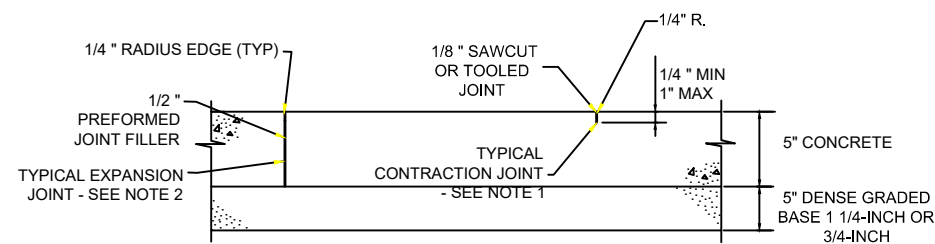
FIGURE 7



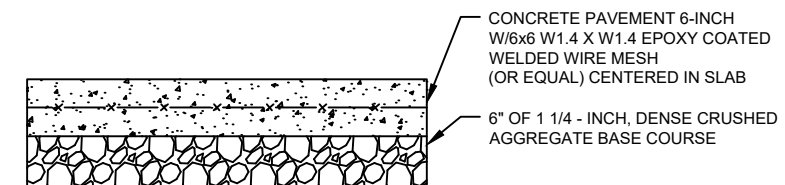
1
5 ASPHALT PAVEMENT
NOT TO SCALE



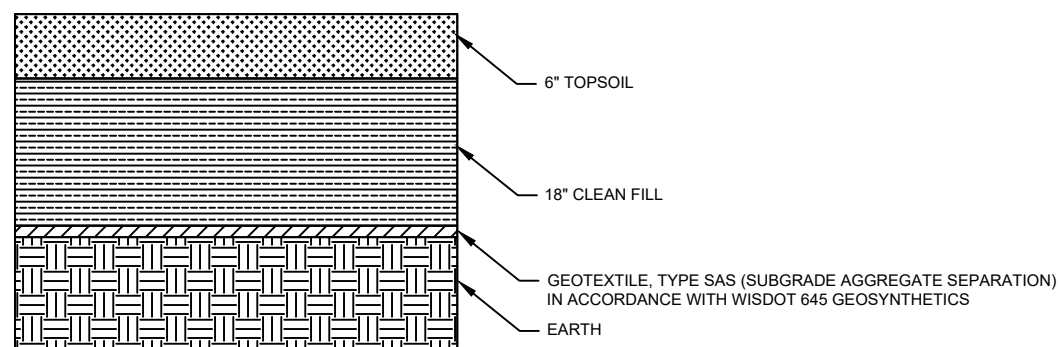
2
5 MILL & OVERLAY HMA
NOT TO SCALE



3
5 CONCRETE SIDEWALK
NOT TO SCALE



4
5 CONCRETE PAVEMENT
NOT TO SCALE



5
5 LANDSCAPE
NOT TO SCALE

PROJECT TITLE: COMMUNITY WITHIN THE CORRIDOR
MILWAUKEE, WI
PROJECT NUMBER: 40405
CLIENT: COMMUNITY WITHIN THE CORRIDOR LIMITED
PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

DRAWN BY AMZ	DATE 01/29/2021
CHECKED BY KVH	DATE 01/29/2021

SHEET TITLE
ENGINEERED BARRIER DETAILS

FIGURE 8

SOIL BORING LOG

PROJECT NAME: Community Within The Corridor

DRILLER: Greg Wester

DATE BEGAN: 04/10/2020

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396527.949

DATE FINISHED: 04/10/2020

GROUND SURFACE ELEVATION: N/A

EAST: 2515209.611

PROJECT NO: 40392

DRILLING METHOD: Direct Push

CHECKED BY: Robert Reineke, P.E.


BORING NO: B-7

CONTRACTOR: Horizon Construction & Exploration

FIELD ENGINEER: Kyle Vander Heiden (KSingh)

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)
	0.0	ASPHALT, Very Dark Grey	ASPHALT									2.3" diameter for geoprobe soil boring.	
		SILTY CLAY (CL), Dark Brown, Loose, No Plasticity, Moist, Some Fine to Medium Sand.	CL	CL			GP-1	39 / 60					Grab sample B-7 (3'-5') collected for environmental sampling.
		SAND & GRAVEL (GP), Very Dark Grey, Angular, Some Loose Clay, Dark Yellowish Brown, No - Low Plasticity, Moist.	GP	GP					15.8			2.2	
	5.0	SAND & GRAVEL (GP), Very Dark Grey, Course, Saturated, Angular.	GP									1" temporary well screen (TW-2) installed 10'-20' bgs for environmental sampling.	
		SILTY CLAY (CL), Light Brown, Loose, Low to Moderate Plasticity, Moist, Trace Medium to Course Sand and Trace Gravel.	CL				GP-2	42 / 60					
	10.0	SILTY CLAY (CL), Greyish Brown, Loose, No Plasticity, Moist, Trace Sub-Angular Course Sand and Gravel. Greenish Grey Sand Seam, Poorly Graded Moist.	CL										

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)
	15.0			CL			GP-3	60 / 60					
		SILTY CLAY (CL), Greyish Brown, Loose, Low to High Plasticity, Moist, with Trace Sub-Angular Sand and Gravel, Well Graded.					GP-4	46 / 60					
	20.0	End of boring at 20ft below ground surface. Temporary well installed screened 10'-20'.											

SOIL BORING LOG

PROJECT NAME: Community Within The Corridor

DRILLER: Greg Wester

DATE BEGAN: 04/10/2020

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396469.227

DATE FINISHED: 04/10/2020

GROUND SURFACE ELEVATION: N/A

EAST: 2515292.723

PROJECT NO: 40392

DRILLING METHOD: Direct Push

CHECKED BY: Robert Reineke, P.E.



BORING NO: B-8

CONTRACTOR: Horizon Construction & Exploration

FIELD ENGINEER: Kyle Vander Heiden (KSingh)

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)	
	0.0	TOPSOIL, Dark Greyish Brown, Organic, Sandy, Loose, Moist.										2.3" diameter for geoprobe soil boring.		
		SAND (SP), Brown, Loose, Moist, Dark Yellowish Staining 3'-4.1'.		SP			GP-1	33 / 60						
	5.0	SILTY CLAY (CL), Light Yellowish Brown, Medium Dense, No to Low Plasticity, Trace Light Grey Sub-Angular Medium Sand.												
		SILTY CLAY (CL), Greenish Brown to Yellowish Brown, Loose, No Plasticity, Moist. Strong Petroleum Odor.		CL			GP-2	21 / 60						340
	10.0	SAND & GRAVEL (GW), Dark Grey, Loose, Saturated, with Clay. Strong Petroleum Odor.		GW					10.5			Grab sample B-8 (9'-11') collected for environmental sampling. 1" temporary well screen (TW-3) installed 10'-20' bgs for environmental sampling.	>2000	

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)
							GP-3	36 / 60					
	15.0	SANDY CLAY (CL), Greyish Brown, Loose, Fine, Saturated, with Some Silt, Trace Coarse Sand. Trace Petroleum Odor. Fine Gravel Seam 14.8' to 14.85', Saturated, No Odor.		CL								Collected TW-3 sample with 1" bailer for environmental sampling.	18.7
	GRAVELLY CLAY (CL), Greyish Brown, Loose, Saturated.												
	SILTY CLAY (CL), Greyish Brown, Medium Dense, Low Plasticity, Saturated, Some Medium to Coarse Sand to 18.9'.												
	20.0	End of boring at 20ft below ground surface. Temporary well installed screened 10'-20'.											

SOIL BORING LOG

PROJECT NAME: Community Within The Corridor

DRILLER: Greg Wester

DATE BEGAN: 04/10/2020

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396328.81

DATE FINISHED: 04/10/2020

GROUND SURFACE ELEVATION: N/A

EAST: 2515348.143

PROJECT NO: 40392

DRILLING METHOD: Direct Push










CHECKED BY: Robert Reineke, P.E.


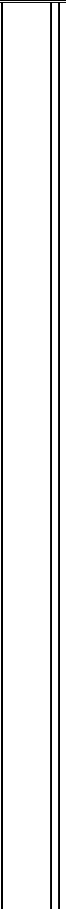
BORING NO: B-9

CONTRACTOR: Horizon Construction & Exploration

FIELD ENGINEER: Kyle Vander Heiden (KSingh)

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)	
	0.0	ASPHALT, Dark Grey.										2.3" diameter for geoprobe soil boring.		
		CONCRETE, Light Grey												
		ASPHALT, Dark Grey.												
		SILTY CLAY (CL). Brown, Loose, No Plasticity, Moist, Some Well Graded Fine to Course Sand.		CL			GP-1	42 / 60						
		SAND & GRAVEL (GW), Brownish Grey, Moist.		GW								Grab sample B-9 (4'-6') collected for environmental sampling.		
	5.0	SANDY CLAY (CL), Dark Brown, Loose, Medium Grain, Moist. Unknown Odor at 4.8' to 6.1'.		CL					13					
		SAND & GRAVEL (GP), Tan, Loose, Moist.		GP									9.8	
		SILTY CLAY (CL), Brownish Grey, Loose, No Plasticity, Moist, Some Sub-Angular Sand and Gravel.					GP-2	48 / 60						
	10.0	SILTY CLAY (CL), Brown, Dense, No Plasticity, Moist, Trace Sand and Gravel.												

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)
	15.0	SILTY CLAY (CL), Brownish Grey, Loose, Moderate Plasticity, Moist, Trace Sand and Gravel. Color Change to Very Dark Brownish Grey After 15.7'.		CL			GP-3	60 / 60					
	20.0						GP-4						
		End of boring at 20ft below ground surface. Temporary well installed screened 10'-20'.											

SOIL BORING LOG

PROJECT NAME: Community Within The Corridor

DRILLER: Kyle Vander Heiden

DATE BEGAN: 04/10/2020

DRILL EQUIP: 3 5/8" Diameter Hand Auger

NORTH: 396229.605

DATE FINISHED: 04/10/2020

GROUND SURFACE ELEVATION: N/A

EAST: 2515432.251

PROJECT NO: 40392

DRILLING METHOD: Hand Auger



CHECKED BY: Robert Reineke, P.E.

BORING NO: B-10

CONTRACTOR: K. Singh & Associates

FIELD ENGINEER: Kyle Vander Heiden (KSingh)

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)
	0.0	TOPSOIL, Brown, Vegetated.					HA-1						
		FILL (FI), Sandy Gravel, Light Brown, Well Graded, Loose, Moist, Some Silty Clay After 3.1'.		FI			HA-2	48 / 48					Grab sample B-10 (3'-4') collected for environmental sampling.
							HA-3						
							HA-4						
							HA-5						
							HA-6						
	5.0	End of boring at 48" below ground surface, abandoned in accordance with NR 141.25.											

SOIL BORING LOG

PROJECT NAME: Community Within The Corridor

DRILLER: Kyle Vander Heiden

DATE BEGAN: 04/10/2020

DRILL EQUIP: 3 5/8" Diameter Hand Auger

NORTH: 396170.701

DATE FINISHED: 04/10/2020

GROUND SURFACE ELEVATION: N/A

EAST: 2515507.945

PROJECT NO: 40392

DRILLING METHOD: Hand Auger

CHECKED BY: Robert Reineke, P.E.

BORING NO: B-11

CONTRACTOR: K. Singh & Associates

FIELD ENGINEER: Kyle Vander Heiden

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)
	0.0	TOPSOIL, Very Dark Grey, Loose, Moist, with Organics.	[Pattern]										
		FILL (FI), Sand and Gravel, Light Brown, Dry.	[Pattern]	FI			HA-1	40 / 40				Grab sample B-11 (2'-3') collected for environmental sampling.	
		'Gravel (GP), Dark Greyish Brown, Loose, Rounded to Sub-Rounded, Dry, with Well-Graded Sand	[Pattern]	GP			HA-2						
							HA-3		6.6				
							HA-4						
							HA-5						
	5.0	End of boring at 40" below ground surface, abandoned in accordance with NR 141.25.											

SOIL BORING LOG

PROJECT NAME: Community Within The Corridor

DRILLER: Greg Wester

DATE BEGAN: 04/10/2020

DRILL EQUIP: Geoprobe 7822DT

NORTH: 395985.792

DATE FINISHED: 04/10/2020

GROUND SURFACE ELEVATION: N/A

EAST: 2515401.113

PROJECT NO: 40392

DRILLING METHOD: Direct Push

CHECKED BY: Robert Reineke, P.E.

BORING NO: B-12

CONTRACTOR: Horizon Construction & Exploration

FIELD ENGINEER: Kyle Vander Heiden (KSingh)

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Remarks	PID (ppm)
	0.0	ASPHALT, Very Dark Grey	■■■■■									2.3" diameter for geoprobe soil boring.	
		CONCRETE, Grey	■■■■■										
		SILTY CLAY (CL), Dark Greyish Brown, Medium Dense, Low Plasticity, Dry.	■■■■■	CL			GP-1		9.2			Grab sample B-12 (3.5'-5.5') collected for environmental sampling.	
	5.0								GP-2				
	10.0	End of boring at 10ft below ground surface, abandoned in accordance with NR 141.25.											

SOIL BORING LOG

PROJECT NAME: Community within the Corridor
DRILL EQUIP: Hand Auger
DRILLER: Daniel Trekas
DRILLING METHOD: Hand Auger
CONTRACTOR: K. Singh & Associates









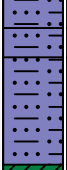



GROUND SURFACE ELEVATION: ---
NORTH: ---
EAST: ---
CHECKED BY: Robert Reineke, P.E.
FIELD ENGINEER: Kyle Vander Heiden (K. Singh)


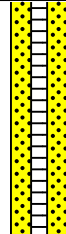



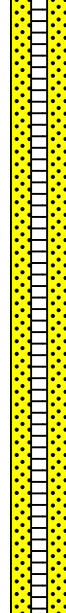
DATE BEGAN: 06/25/2020
DATE FINISHED: 06/25/2020
PROJECT NO: 40405
BORING NO: B-16

Elevation (FT)	Depth (FT)	Description	Graphic Profile	Graphic Well Profile	USCS	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ Qp (Unconfined Compressive Strength, tsf)	Qp (penetrometer, tsf)
0.0	0.0	Topsoil	[Hatched Pattern]												
		SANDY CLAY (CL) Dark Greyish Brown, Dry.	[Diagonal Hatched Pattern]												
		SILTY CLAY (CL), Light Brown, Dry to Moist.	[Diagonal Hatched Pattern]												
		SANDY CLAY (CL), Dark Greyish Brown, Moist.	[Diagonal Hatched Pattern]		CL			B-16							
		End of boring at 2 ft. below ground surface, abandoned in accordance with NR 141.25.													

SOIL BORING LOG





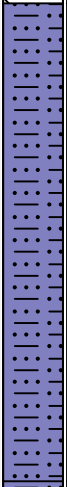

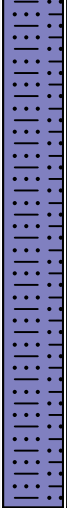
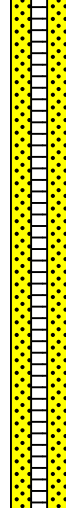



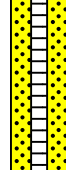
PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 686.592	DATE BEGAN: 05-04-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396545.92	DATE FINISHED: 05-04-2021
DRILLER: Scott Klumb	EAST: 2546731.821	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-17/MW-1
CONTRACTOR: Subsurface Exploration Services, LLC	FIELD ENGINEER: Kyle Vander Heiden	COUNTY: Milwaukee


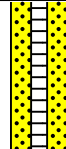

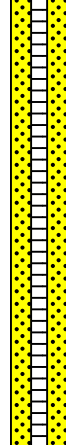
Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c , tsf	Remarks	PID (ppm)
685.0	0.0	ASPHALT - Very dark gray		PA										
		FILL - Sand (SP) - Very dark gray, moist, sub-angular, poorly graded, with gravel, some clay		FI			SS 1	24 / 48						
		FILL - Sandy Clay (CL) - Soft, gray, moist		FI										
		FILL - Sand (SP) - Light brown, moist, fine to medium grained, some gravel		FI										
680.0	5.0	SILTY CLAY (CL) - Soft, reddish brown, moist, moderate plasticity, few sand and gravel		CL			SS 2	48 / 48						
														0.8
675.0	10.0	SILTY CLAY (CL) - Soft, grayish brown, moderate to high plasticity		CL			SS 3	48 / 48						
								48						

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q, tsf	Remarks	PID (ppm)
670.0	15.0	SILTY CLAY (CL) - Very soft, grayish brown, low plasticity, few sand		CL			SS 4	/ 48						
670.0		GRAVEL (GP) - Moist, fine-grained, with moderate to coarse sand		GP										3448
665.0	20.0	SILTY CLAY (ML/CL) - Soft, very dark grayish brown, low to moderate plasticity, some sand and gravel, silt is dominant from 22.0' to 23.0'		ML			SS 5	48 / 48						
665.0							SS 6	36 / 36						
660.0	25.0	End of Boring at 23 ft, abandoned in accordance with NR 141.25.												
660.0	30.0													

SOIL BORING LOG

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 685.932	DATE BEGAN: 06-03-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396456.783	DATE FINISHED: 06-03-2021
DRILLER: Scott Klumb	EAST: 2546837.651	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-18/MW-2
CONTRACTOR: Subsurface Exploration Services, LLC	FIELD ENGINEER: Alex Huebner	COUNTY: Milwaukee


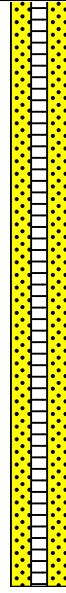

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
685.0	0.0	ASPHALT - 3 inches		PA										
		Concrete - 10 inches		PA										
		FILL - Foundry sand, brown to black, moist, mixed with silty clay and fine gravel		FI			SS 1	21 / 48						0
	5.0													
680.0		FILL - Silty Clay (CL) - Very dark grayish brown to yellowish brown, wet, with fine to coarse gravel		FI			SS 2	32 / 48						0
	10.0													
675.0		FILL - Silty Sand (SM) - Black, wet, with fine to medium gravel		FI			SS 3	18 / 48						
		SILTY CLAY (CL) - Grayish brown,		CL				42						

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q, tsf	Remarks	PID (ppm)
670.0	15.0	wet, little fine sand and gravel					SS 4	/ 48						10.4
665.0	20.0	SILTY CLAY (CL) - Grayish brown, wet, with fine sand and coarse gravel		CL			SS 5	48 / 48						0
660.0	25.0	End of Boring at 20 ft. Converted to EB-MW-2.												
655.0	30.0													

SOIL BORING LOG



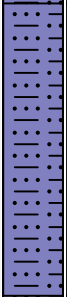

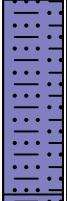

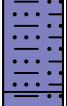



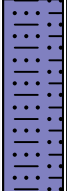

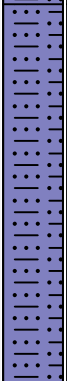

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 684.66	DATE BEGAN: 07-21-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396441.72	DATE FINISHED: 07-21-2021
DRILLER: Adam Sweet	EAST: 2547022.952	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-19/MW-3
CONTRACTOR: Horizon Construction and Exploration, LLC	FIELD ENGINEER: Aileen Zebrowski	COUNTY: Milwaukee


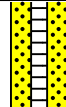

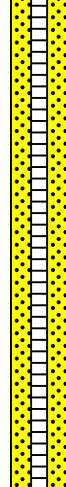

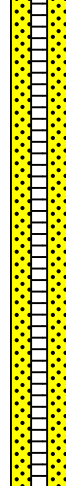
Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
684.66	0.0	Topsoil/mulch - 6"	Tops oil											
680.0	5.0	FILL - Sand, tan to black, trace to some gravel	FI				SS 1	28 / 60						177.7
675.0	10.0	SILTY CLAY (CL) - Soft to medium, orange, few sand and gravel	CL				SS 2	38 / 60				0.5		35.5
		SAND (SW) - Black, some clay & silt, little gravel	SW				SS 3	44 / 60				2.25		48.6
												0.5		

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c , tsf	Remarks	PID (ppm)
670.0	15.0	SILTY CLAY (CL) - Medium to very stiff, green/gray, orangy brown, trace to little sand and gravel		CL								2.0		
							SS 4	40 / 60				1.0		
665.0	20.0	SILTY CLAY (CL) - Stiff, gray, trace sand and gravel		CL								3.25		
							SS 5	8 / 60				1.75		
660.0	25.0	Refusal at 25 ft, auger to 20 ft. Convert to EB-MW-3.												
655.0	30.0													

SOIL BORING LOG

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 685.1	DATE BEGAN: 07-21-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396188.447	DATE FINISHED: 07-21-2021
DRILLER: Adam Sweet	EAST: 2547036.281	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-20/MW-4
CONTRACTOR: Horizon Construction and Exploration, LLC	FIELD ENGINEER: Aileen Zebrowski	COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
685.0	0.0	FILL - Sandy gravel, white/light gray, loose, trace geotextile		FI										
		FILL - Gravel (GP), orange/tan, sub-rounded, with sand		FI			SS 1	24 / 60						29.3
680.0	5.0	FILL - Medium sand, orange, sub-angular, trace gravel		FI										
		FILL - Sand (SP) - Blackened, sand, with clay, little silt, trace gravel		FI										
		FILL - Silty Clay (CL) - Orangi brown, blackened, few to some sand, trace gravel		FI			SS 2	14 / 60						13.2
		FILL - Sand (SW) - Blackened, wet, medium to coarse, few gravel		FI										
675.0	10.0	FILL - Gravel (GW) - Tan, angular gravel, some sand		FI			SS 3	13 / 60						6.3

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q, tsf	Remarks	PID (ppm)
670.0	15.0	SILTY CLAY (CL) - Soft, orangy brown, moist to wet, few sand and gravel		CL										
							SS 4	36 / 60						5.5
665.0	20.0	SILTY CLAY (CL) - Medium to hard, gray, moist, little sand, few gravel		CL										
							SS 5	50 / 60						63.2
660.0	25.0													
							SS 6	44 / 60						26.5
655.0	30.0	Refusal at 28.5 ft, bedrock. Converted into EB-MW-4.												

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 680.026

DATE BEGAN: 06-03-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396009.761

DATE FINISHED: 06-03-2021

DRILLER: Scott Klumb

EAST: 2546832.154

PROJECT NO: 40443

DRILLING METHOD: HSA

CHECKED BY: Daniel Pelczar


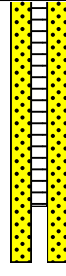
BORING NO: EB-B-21/MW-5

CONTRACTOR: Subsurface Exploration Services, LLC

FIELD ENGINEER: Alex Huebner

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
680.0	0.0	FILL - Clay, dark yellowish brown, dry		FI										
		FILL - Silty Clay, some gravel, moist		FI										
		FILL - Foundry sand, dark yellowish brown to black, poorly graded, moist		FI			SS 1	24 / 48						0
675.0	5.0						SS 2	28 / 48						0
		SILTY CLAY (CL) - Brown, moist		CL										
670.0	10.0	SILTY SAND (SM) - Brown, wet		SM			SS 3	36 / 48						0
		SILTY CLAY (CL) - Brown, moist		CL										
		SILTY CLAY (CL) - Gray, moist												
				CL										
								42						

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q, tsf	Remarks	PID (ppm)	
665.0	15.0	SILTY CLAY (CL) - Gray, moist, some silty seams of <2"		CL			SS 4	/						0	
							48							0	
660.0	20.0	End of Boring at 20 ft. Converted to EB-MW-5.													
655.0	25.0														
650.0	30.0														

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION:

DATE BEGAN: 05-05-20201

DRILL EQUIP: Geoprobe 7822DT

NORTH:

DATE FINISHED: 05-05-20201

DRILLER: Scott Klumb

EAST:

PROJECT NO: 40443

DRILLING METHOD: HSA






CHECKED BY: Daniel Pelczar

BORING NO: EB-B-22

CONTRACTOR: Subsurface Exploration Services, LLC

FIELD ENGINEER: Kyle Vander Heiden

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
0.0	0.0	ASPHALT - Very dark gray		PA										
		FILL - Clayey Sand (SP) - Very dark grayish brown, reddish brown mottling, moist, some gravel		FI										
		FILL - Gravel (GP) - Light gray, dry, fine-grained, sub-angular, with sand		FI										
		SILTY CLAY (CL) - Soft, light brown, angular, moderate to high plasticity, few sand and gravel		CL			SS 1	31 / 48						
-5.0	5.0	SILTY CLAY (CL) - Soft, light brown, saturation at 6.6 ft, no plasticity, petroleum odor at 7.8 ft, with to few sand and gravel		CL			SS 2	34 / 48						0.4
-10.0	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.					SS 3	24 / 24						0.2

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION:

DATE BEGAN: 05-05-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH:

DATE FINISHED: 05-05-2021

DRILLER: Scott Klumb

EAST:

PROJECT NO: 40443

DRILLING METHOD: HSA


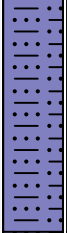
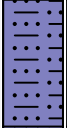
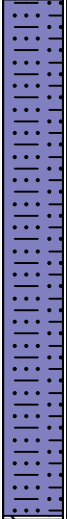

CHECKED BY: Daniel Pelczar

BORING NO: EB-B-23

CONTRACTOR: Subsurface Exploration Services, LLC

FIELD ENGINEER: Kyle Vander Heiden

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _v tsf	Remarks	PID (ppm)
0.0	0.0	ASPHALT - Very dark gray		PA										
		FILL - Sand (SP) - Light gray, dry, with gravel		FI			SS 1	31 / 48						
		FILL - Gravelly Sand (GW) - Dark brown, dry, moderate to coarse grained, some silty clay, lenses of asphalt		FI										
-5.0	5.0	FILL - Silty Clay (CL) - Soft, light brown, color to gray and saturated at 8.1 ft, low plasticity, few sand and gravel		FI			SS 2	32 / 48						
		ASPHALT - Very dark gray, saturated, brittle, few clay		PA			SS 3	24 / 24						
-10.0	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.												

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION:

DATE BEGAN: 07-21-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH:

DATE FINISHED: 07-21-2021

DRILLER: Adam Sweet

EAST:

PROJECT NO: 40443

DRILLING METHOD: HSA

CHECKED BY: Daniel Pelczar

BORING NO: EB-B-24

CONTRACTOR: Horizon Construction and Exploration, LLC

FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _v tsf	Remarks	PID (ppm)
0.0	0.0	FILL - Fine sand, white, trace gravel	[Pattern]	FI										
		FILL - Gravelly Sand (GW), dark brown & black, little fines	[Pattern]	FI			SS 1	27 / 60						5.5
		SILTY CLAY (CL) - Orangy brown, speckled black, with sand	[Pattern]	CL										
-5.0	5.0	SILTY CLAY (CL) - Orangy brown, trace to little sand, trace gravel	[Pattern]	CL			SS 2	24 / 60						6.3
		SILTY CLAY (CL) - Very soft to soft, gray, trace to little sand, trace gravel	[Pattern]	CL								<0.25 0.75		
-10.0	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.												

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 685.749

DATE BEGAN: 07-21-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396293.21

DATE FINISHED: 07-21-2021

DRILLER: Adam Sweet

EAST: 2546905.109

PROJECT NO: 40443

DRILLING METHOD: HSA

CHECKED BY: Daniel Pelczar


BORING NO: EB-B-25

CONTRACTOR: Horizon Construction and Exploration, LLC

FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)	
685.0	0.0	FILL - Sand, brown to tan, few gravel	[Graphic Profile]	FI											
		FILL - Sandy gravel, white, angular		FI			SS 1	30 / 60							15.4
		FILL - Sand, black, coarse, little gravel, trace cinders		FI											
680.0	5.0	SANDY CLAY (CL) - Orangy brown, tainted black, with silt, trace gravel	[Graphic Profile]	CL											
		SILTY CLAY (CL) - Orangy brown, few sand, trace gravel		CL			SS 2	18 / 60							5.4
		No Recovery					SS 3	0 / 48							

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q, tsf	Remarks	PID (ppm)
670.0	15.0	SILTY CLAY (CL) - Orangy brown, wet, little sand, trace to little gravel		CL								0.25		
		SILTY CLAY (CL) - Very soft to hard, gray, few sand, trace gravel		CL			SS 4	48 / 48					0.5	
	20.0	End of Boring at 18 ft, abandoned in accordance with NR 141.25.										4.25		
665.0														
660.0	25.0													
655.0	30.0													

SOIL BORING LOG

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 685.212	DATE BEGAN: 07-21-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396336.987	DATE FINISHED: 07-21-2021
DRILLER: Adam Sweet	EAST: 2547027.404	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-26
CONTRACTOR: Horizon Construction and Exploration, LLC	FIELD ENGINEER: Aileen Zebrowski	COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
685.0	0.0	Topsoil - 6"	Topsoil	TO										
			FI				SS 1	26 / 60						14.4
680.0	5.0	FILL - Very soft, sand, orange/tan, blackened ~6-8 ft bgs, moist to wet, medium, trace to with gravel, few fines	FI				SS 2	26 / 60				<0.25		7.5
675.0	10.0	SILTY CLAY (CL) - Soft, orangy brown, moist, few sand and gravel	CL									0.5		
		End of Boring at 10 ft, abandoned in accordance with NR 141.25.												

SOIL BORING LOG

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 676.102	DATE BEGAN: 07-20-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396191.44	DATE FINISHED: 07-20-2021
DRILLER: Adam Sweet	EAST: 2546809.611	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-27/MW-6
CONTRACTOR: Horizon Construction and Exploration, LLC	FIELD ENGINEER: Aileen Zebrowski	COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
675.0	0.0	CONCRETE - 3"		PA										
		FILL - Sandy clay to silty clay, brown, some fine to coarse gravel		FI			SS 1	24 / 60				1.5		0
670.0	5.0	SILTY CLAY (CL) - Stiff to very stiff, dark brown to dark gray, moist, few to little gravel & sand		CL			SS 2	39 / 60				1.5		0
		SILT (ML) - Gray, with clay, few fine sand, moist		ML								2.5		
665.0	10.0						SS 3	60 / 60				1.5		56

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c , tsf	Remarks	PID (ppm)
660.0	15.0	SILTY CLAY (CL) - Stiff to hard, dark brown to dark gray, moist, few to little gravel & sand		CL								2.5		
							SS 4	60 / 60				>4.5		
	20.0	SANDY CLAY (CL) - Hard, dark brown, little silt and gravel		CL								2.5		
655.0												3		0
												4.25		
	20.0	CLAYEY SAND (SC) - Hard, dark brown to gray, some wet sand seams, few to little fine gravel		SC										
650.0							SS 5	60 / 60				>4.5		0
	25.0	SAND CLAY MIX (SC) - Dark brown to gray, few to little silt and fine gravel		SC										
650.0														
		Refusal at 26.5 ft, hit bedrock. Auger to same depth, convert to EB-MW-6												
	30.0													

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 675.88

DATE BEGAN: 07-20-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396252.544

DATE FINISHED: 07-20-2021

DRILLER: Adam Sweet

EAST: 2546926.214

PROJECT NO: 40443

DRILLING METHOD: HSA


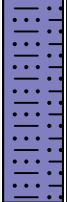



CHECKED BY: Daniel Pelczar

BORING NO: EB-B-28

CONTRACTOR: Horizon Construction and Exploration, LLC

FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
675.0	0.0	CONCRETE - 6"		PA										
		FILL - Gravelly Sand (GW), loose, brown & black		FI			SS 1	26 / 48						0
		SILTY CLAY (CL) - Soft to medium, brown, moist to wet @3 ft, little to some sand, little gravel		CL								0.5		
670.0	5.0	SILTY CLAY (CL) - Very stiff to hard, brown to dark gray, trace clay, trace to few gravel		CL			SS 2	22 / 48				4.25		0
												>4.5		
												2.0		0
	10.0	CLAYEY SAND (SC) - Gray, little gravel and silt		SC			SS 3	24 / 24						
665.0		End of Boring at 10 ft, abandoned in accordance with NR 141.25.												

SOIL BORING LOG

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 675.078	DATE BEGAN: 07-20-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396207.21	DATE FINISHED: 07-20-2021
DRILLER: Adam Sweet	EAST: 2546749.472	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-29
CONTRACTOR: Horizon Construction and Exploration, LLC	FIELD ENGINEER: Aileen Zebrowski	COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _v tsf	Remarks	PID (ppm)
675.0	0.0	SILTY CLAY (CL) - Very stiff, black to orangy brown, few to little sand, few gravel		CL			SS 1					2.5		
							3.0							
							2.5							
670.0	5.0	SILTY CLAY (CL) - Medium to hard, gray, few to little sand, few gravel		CL			SS 2	ch ec k p h o s				1.75		
							1.25							
							0.75							
665.0	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.		CL			SS 3					3.25		
							4.5							

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 676.016

DATE BEGAN: 07-20-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396092.045

DATE FINISHED: 07-20-2021

DRILLER: Adam Sweet

EAST: 2546745.35

PROJECT NO: 40443

DRILLING METHOD: HSA

CHECKED BY: Daniel Pelczar

BORING NO: EB-B-30

CONTRACTOR: Horizon Construction and Exploration, LLC

FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
675.0	0.0	CONCRETE - 1"	[Pattern]	PA										
		FILL - Gravelly fine sand (GW), gray, sub-angular	[Pattern]	FI			SS 1	20 / 48						0
		SILTY CLAY (CL) - Medium to stiff, orangy brown to brown, trace to little sand and gravel	[Pattern]	CL								1.75		
670.0	5.0		[Pattern]				SS 2	43 / 48				1.75		0
		SILTY CLAY (CL) - Medium to very stiff, gray, trace to little sand and gravel	[Pattern]	CL								0.75		
			[Pattern]									2.5		
		SILTY SAND (SP) - Gray, fine, trace gravel and clay	[Pattern]	SP			SS 3	24 / 24				0.75		0
			[Pattern]									2.75		
665.0	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.												

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 675.956

DATE BEGAN: 07-20-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 395965.142

DATE FINISHED: 07-20-2021

DRILLER: Adam Sweet

EAST: 2546751.54

PROJECT NO: 40443

DRILLING METHOD: HSA

CHECKED BY: Daniel Pelczar

BORING NO: EB-B-31

CONTRACTOR: Horizon Construction and Exploration, LLC





FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
675.0	0.0	CONCRETE - 5"		PA										
		FILL - Silty Clay (CL) - Soft to medium, orangy brown		FI								0.5		
		FILL - Sandy Gravel (GW) - Dark brown/black, moist, with sand		FI			SS 1	25 / 48						
		SILTY CLAY (CL) - Medium, gray, little sand and gravel		CL								0.75		
	5.0	SILTY CLAY (CL) - Stiff, orangy brown, trace sand and gravel		CL								1.25		
670.0		SAND (SW) - Orangy brown, moist to wet, little gravel, trace fines		SW										
		CLAYEY SAND (SC) - orangy brown, moist to wet, with silt		SC								2.0		
		SILTY CLAY (CL) - Very stiff, o'rangy brown, trace sand and gravel		CL			SS 3	24 / 24				2.5		
	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.										2.5		
665.0														

SOIL BORING LOG

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 676.043	DATE BEGAN: 07-20-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396062.346	DATE FINISHED: 07-20-2021
DRILLER: Adam Sweet	EAST: 2546909.51	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-32
CONTRACTOR: Horizon Construction and Exploration, LLC	FIELD ENGINEER: Aileen Zebrowski	COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _v , tsf	Remarks	PID (ppm)
675.0	0.0	CONCRETE - 3"		PA								2.0		0
		SILTY CLAY (CL) - Soft to stiff, orangy brown, spots of black and gray, few sand and gravel		CL			SS 1	44 / 48				1.25		0
670.0	5.0	SILTY CLAY (CL) - Very soft to very stiff, dark brown to dark gray to mottled brown and gray, moist, saturated at 8 ft, trace brick, few to little sand, few gravel		CL			SS 2	27 / 48				0.25		0
		SILTY CLAY (CL) - Very soft to very stiff, dark brown to dark gray to mottled brown and gray, moist, saturated at 8 ft, trace brick, few to little sand, few gravel		CL			SS 3	24 / 24				<0.25		0
665.0	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.										2.5		

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 676.091

DATE BEGAN: 07-20-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396152.167

DATE FINISHED: 07-20-2021

DRILLER: Adam Sweet

EAST: 2546951.398

PROJECT NO: 40443

DRILLING METHOD: HSA



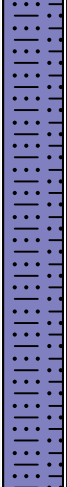
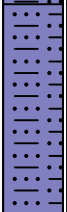

CHECKED BY: Daniel Pelczar

BORING NO: EB-B-33

CONTRACTOR: Horizon Construction and Exploration, LLC

FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c , tsf	Remarks	PID (ppm)
675.0	0.0	CONCRETE - 6"		PA										
		FILL - Sand (SP) - Orangy tan sand, medium to fine, few gravel		FI										
		FILL - Silty Clay (CL) - Stiff, dark brown, few sand and gravel, trace cinders		FI			SS 1	44 / 48				2.0 1.0 1.75 1.0 1.0		0
670.0	5.0	FILL - Sandy Clay (CL) - to clayey sand, stiff, dark brown/gray to orangy brown, moist, wet @ 4.5 ft, trace gravel, trace cinders		FI			SS 2	48 / 48				1.5 1.75		0
		SILTY CLAY (CL) - Very stiff to hard, gray, trace to few sand, few gravel		CL			SS 3	24 / 24				1.25 >4.5 3.5		0
665.0	10.0	End of Boring at 10 ft, abandoned in accordance with NR 141.25.												

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 676.063

DATE BEGAN: 07-20-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396106.146

DATE FINISHED: 07-20-2021

DRILLER: Adam Sweet

EAST: 2546947.393

PROJECT NO: 40443

DRILLING METHOD: HSA

CHECKED BY: Daniel Pelczar

BORING NO: EB-B-34

CONTRACTOR: Horizon Construction and Exploration, LLC

FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
675.0	0.0	CONCRETE - 3"	PA	PA										
		FILL - Sandy Gravel (GW) - orange brown, moist, saturated >4 ft, well-graded, sub-angular	FI	FI			SS 1	9 / 48						0
670.0	5.0	FILL - Sandy Gravel (GW) - black, saturated, well-graded, sub-angular, odor	FI	FI			SS 2	15 / 42						20
		FILL - Sand (SW) - Light gray, moist, few gravel, trace fines, odor	FI	FI										
		Refusal 7.5 ft, abandoned in accordance with NR 141.25.												
665.0	10.0													

SOIL BORING LOG

PROJECT NAME: CWC - East Block	GROUND SURFACE ELEVATION: 676.781	DATE BEGAN: 06-03-2021
DRILL EQUIP: Geoprobe 7822DT	NORTH: 395960.144	DATE FINISHED: 06-03-2021
DRILLER: Scott Klumb	EAST: 2546816.877	PROJECT NO: 40443
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar	BORING NO: EB-B-35
CONTRACTOR: Subsurface Exploration Services, LLC	FIELD ENGINEER: Alex Huebner	COUNTY: Milwaukee

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c tsf	Remarks	PID (ppm)
675.0	0.0	SILTY CLAY (CL) - Yellowish brown, moist		CL			SS 1	43 / 48						0
670.0	5.0				SS 2	48 / 48			0					
665.0	10.0				SS 3	24 / 24			0					
665.0		End of Boring at 10 ft, abandoned in accordance with NR 141.25.												