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January 23, 2018

Project No. 2016.110

Adam S. McIlheran, Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
Southeast Region, Milwaukee Service Center
2300 North Martin Luther King Drive
Milwaukee, Wisconsin 53212

RE: Final Post-Closure Modification Report
733 East Capitol Drive (formerly 709 East Capitol Drive)
City of Milwaukee, Milwaukee County, Wisconsin 53212
FID #241975140
BRRTS #02-41-200169

Dear Mr. McIlheran:

1.0 INTRODUCTION

Environmental Consulting, Inc. is pleased to submit this Final Post-Closure Modification Report documenting the changes made to the engineering controls for the contaminated soil and groundwater located at the above referenced property, referenced hereinafter as the subject property. On behalf of our client, Palestra Real Estate Partners, Inc., Environmental Consulting, Inc. submitted to the Wisconsin Department of Natural Resources (“DNR”) a Post-Closure Modification (“PCM”) request associated with the redevelopment of the subject property into a medical outpatient dialysis center. The PCM request was submitted in accordance with the requirements of the DNR Remediation & Redevelopment (“RR”) form entitled Post-Closure Modifications: Changes to Property Conditions after a State-Approved Cleanup (i.e., DNR RR-987). The PCM request was approved by DNR in an email correspondence dated April 24, 2017. A copy of the PCM request approval email dated April 24, 2017 is included as Attachment 1.

The subject property consists of an approximate 31,500 square foot parcel of land located at the southeast corner of the intersection of East Capitol Drive and North Fratney Street. Prior to the recent redevelopment activities, the subject property consisted of a paved asphalt parking lot. In 1997, environmental due diligence activities revealed that a dry cleaning facility and a maintenance garage were previously located on the subject property between the 1930s and the 1970s. The dry cleaning facility was located on the west portion of the subject property and the maintenance garage was located to the south of the subject property. Several underground storage tanks (“USTs”) containing gasoline, waste oil and solvent were previously located at this site and initial site investigation activities discovered petroleum and chlorinated solvent impacted soil and groundwater on the subject property that exceeded applicable DNR standards. Following the completion of site investigation activities performed between 1997 and 2007, the owner of the subject property at that time requested case closure from the DNR with the submittal of a Geographic Information System (“GIS”) Registry packet for the residual soil and groundwater contamination on the subject property. On May 1, 2008, DNR issued a letter granting closure and allowing contaminated soil and groundwater to be managed in-place at the subject property. The management in-place of the soil and groundwater contamination was via engineering controls (i.e., an asphalt pavement cap) and institutional controls which consists of the inclusion of this site in Wisconsin’s GIS Registry system. The Bureau for Remediation and

Redevelopment Tracking System (“BRRTS”) assigned case number 02-41-200169 to the subject property. A copy of the Wisconsin DNR Final Case Closure letter dated May 1, 2008 for the subject property is included as Attachment 2.

The redevelopment for the subject property into a medical outpatient dialysis center included the following scope of work:

- construction of one (1) one-story, slab on-grade steel-framed commercial building with an approximate building footprint of 6,070 square feet;
- construction of a paved asphalt parking lot;
- construction of concrete flatwork areas; and
- construction of limited landscaped areas.

The site work activities for the redevelopment of the subject property were initiated in June, 2017. The installation of the new site-wide cap was substantially complete on December 8, 2017.

2.0 SURPLUS SOIL DISPOSAL ACTIVITIES

Environmental Consulting, Inc. prepared a Soil Management Plan dated April 14, 2017 to be utilized during the redevelopment of the subject property. A copy of the Soil Management Plan is included in Attachment 3. The Soil Management Plan dated April 14, 2017 identified and described the procedures to be followed during the construction activities due to the contaminated soil and groundwater located on the subject property. Management of contaminated soil during the redevelopment of the subject property was completed in accordance with NR 718.2 and NR 718.5 (i.e., DNR RR-060).

Based on the existing elevation grades, surplus soil was generated during construction activities. The surplus soil was temporarily stockpiled on and covered with 6-mil polyethylene sheeting pending approval from a permitted facility for off-site disposal. On September 15, 2017 and September 18, 2017, approximately 778.06 tons (i.e., 34 loads) of surplus soil that was generated as part of the site redevelopment activities were transported off-site for disposal at the Waste Management (“WM”) Orchard Ridge RDF facility located in Menomonee Falls, Wisconsin. Copies of the WM soil disposal manifests are included in Attachment 4.

3.0 VAPOR MITIGATION SYSTEM

From September 11, 2017 to September 13, 2017, Environmental Consulting, Inc. installed the sub-slab vapor mitigation system for the building on the subject property during its construction. The sub-slab vapor mitigation system consists of a vapor collection system and a vapor barrier system. The vapor barrier system consists of a 40-mil polyvinyl chloride (“PVC”) liner material located between two (2) layers of 8-ounce non-woven geotextiles. The vapor collection system, which is located beneath the vapor barrier, consists of a network of low-profile vapor collection media connected to a 4-inch diameter PVC riser pipe that vents to the atmosphere through an in-line induction fan unit mounted on the roof of the building. Figure 1 and Figure 2 included in Attachment 5 illustrate the as-built layouts of the vapor collection system and the vapor barrier system, respectively. Copies of photographs taken during the installation of the vapor barrier system and vapor collection system are included in Attachment 6.

3.1 Vapor Collection System

The vapor collection system for the building on the subject property consists of four (4) manifolded branches of low-profile (i.e., 1-inch high by 12-inch wide) vapor collection conduit called J-Drain manufactured by US Fabrics. The vapor collection system was designed to provide adequate coverage of the sub-slab building area based on the size and layout of the building and based on typical influence (i.e., capture) zones as provided by manufacturers of this type of vapor collection media. The four (4) branches of vapor collection media run south to north through the building and are manifolded together at the northern end of the building. The manifolded low-profile vapor collection media connects to a single 3-inch diameter Schedule 40 PVC header pipe. The PVC header pipe then connects to a 4-inch diameter Schedule 40 PVC riser pipe located at the north-central portion of the building. The riser vent pipe runs vertically along the interior of the northern wall of the building and through the roof of the building (see Figure 1).

The vapor collection media used for this project was selected due to its low radial flow resistance, low profile, large cross-sectional area and its utility in both passive and low capacity vapor venting systems. J-Drain (i.e., a GeoVent™ equivalent) is a low-profile pressure relief, collection and venting system (“PRCVS”) that has been successfully utilized at hundreds of installations. It is a trenchless gas collection system that has several advantages over a trenched installation and can be used as an “active” or “passive” venting system depending on the specific project. Combined with a vapor barrier membrane, this type of low-profile vapor collection conduit is designed to alleviate the accumulation of vapors under the concrete floor slab. A copy of the material specifications for the vapor collection conduit is included as Attachment 7.

Vapors collecting beneath the vapor barrier will be collected in the vapor collection system and vented to the atmosphere via one (1) RP265 Series in-line induction fan unit. The induction fan unit was installed outside on top of the 4-inch diameter PVC riser pipe (i.e., induction side) above the roof. The induction fan connections were made using 4-inch to 6-inch flexible couplings. Discharge riser pipes consisting of 4-inch PVC pipe were also connected to the outlet of the fan units (i.e., blower side) and were vented using a PVC tee fitting rain cap at a minimum of 3 feet above the roof. A typical roof boot penetration seal will be installed by the roofing contractor for the vent riser penetration through the roof. The typical installation instructions and specifications for the RP Series induction fan are included in Attachment 8. The electrical connection for the one (1) induction fan unit for the vapor collection system will be performed by a licensed electrician via a dedicated electrical circuit breaker switch.

3.2 Vapor Barrier System

The vapor barrier system consists of a heat and solvent welded 40-mil PVC liner material located between two (2) layers of 8-ounce non-woven geotextiles per the manufacture’s specifications. The 40-mil PVC liner system was fastened to the perimeter concrete foundation walls using Perminator vapor barrier adhesive tape. Pipe penetrations through the 40-mil PVC liner were sealed using a combination of 40-mil PVC pipe boots and Perminator vapor barrier tape. Approximately 117 pipe penetrations varying in diameter from 1-inch copper pipes to 4-inch diameter PVC pipes were sealed as part of the vapor barrier system installation activities. Figure 2 in Attachment 5 shows the typical construction schematic for the 40-mil PVC liner system and the typical vapor barrier system

construction details. Copies of the product data sheets for the non-woven geotextiles, PVC liner material, solvent well compound and the Perminator vapor barrier tape are included in Attachment 9.

The liner system installation work was performed in accordance with the manufacturer's installation guidelines and product specifications. Environmental Consulting, Inc. performed field construction quality assurance testing via visual inspection for all liner seams and penetration boots. Environmental Consulting, Inc. certifies that the vapor mitigation system has met the all field construction quality assurance guidelines and specifications and was installed as designed.

4.0 SITE-WIDE CAP

As previously indicated in Section 1.0 of this Final Post-Closure Modification Report, an asphalt pavement cap was previously installed and approved by DNR as an engineering control for the identified contaminated soil and groundwater at the subject property. Soil contaminated by petroleum compounds and chlorinated solvent compounds is located on the subject property at depths ranging from 2 feet below ground surface ("bgs") to 15 feet bgs. Groundwater contaminated by petroleum compounds and chlorinated solvent compounds is located at depths ranging from approximately 4 feet bgs to 9 feet bgs.

The redevelopment of the subject property into a medical outpatient dialysis center required the submission of a Post-Closure Modification request that was approved by DNR on April 24, 2017. The redevelopment of the subject property involved the removal and replacement of engineering controls at the subject property. The new engineering controls based on the proposed future use that were installed at the subject property consist of a new site-wide cap and a vapor mitigation system as discussed in Section 3.0 of this Final Post-Closure Modification Report. The new site-wide cap consists of a combination of a concrete building slab; asphalt and concrete pavement; and vegetated clean fill. The pavement section of the site-wide cap consists of approximately 4 inches of asphalt surface and binder overlying approximately 8 inches of aggregate base. The sidewalk consists of approximately 5 inches of concrete surface overlying approximately 4 inches of aggregate base. The soil cover consists of approximately 6 inches of clean topsoil overlying approximately 18 inches of clay. The site-wide cap, which overlays the full extent of the subject property, serves as a barrier to prevent direct human contact with residual soil and groundwater contamination that might otherwise pose a threat to human health as shown. A copy of the as-built plan for the newly installed site-wide cap is included in Attachment 10. A copy of the engineering specifications for the site-wide cap is included in Attachment 11.

The institutional control for the contaminated soil and groundwater is the continued inclusion of the subject property in Wisconsin's GIS Registry system, which was updated on January 23, 2018.

5.0 OPERATION AND MAINTENANCE ("O&M") PLANS

In order to properly manage the engineering controls (i.e., site-wide cap and vapor mitigation system) at the subject property, Environmental Consulting, Inc. developed the following operations and maintenance ("O&M") plans:

- Site-Wide Cap Maintenance Plan, dated January 23, 2018; and
- Operation, Maintenance and Monitoring Plan (Vapor Mitigation System), dated January 23, 2018.

The above listed documents were prepared in accordance with the DNR Remedial and Interim Action Design, Implementation, Operation, Maintenance and Monitoring Requirements (i.e., N.R. 724). Copies of these two (2) O&M plans were prepared under separate cover and were submitted to DNR along with this Final Post-Closure Modification Report.

Please do not hesitate to contact us if you have any questions regarding the Final Post-Closure Modification documentation submittal.

Sincerely,

ENVIRONMENTAL CONSULTING, INC.



Samuel J. Kucia
Vice President



Richard S. Werner, P.G.
President

cc: Robert Murdocca, Palestra Real Estate Partners, Inc.

ATTACHMENT 1

**POST-CLOSURE MODIFICATION REQUEST
APPROVAL DATED APRIL 24, 2017**

Subject: Approval of SMP & Draft Cap/Vapor System Plans for BBRTS# 02-41-200169, Berggren Investments, Milwaukee, WI

From: McIlheran, Adam S - DNR (Adam.McIlheran@wisconsin.gov)

To: r Werner@eciconsulting.net;

Cc: David.Hanson@wisconsin.gov; Pamela.Mylotta@wisconsin.gov;

Date: Monday, April 24, 2017 9:11 AM

Richard.

We have reviewed the revised Soil Management Plan for the above-referenced site, along with the drafts of the Site-Wide Cap Maintenance Plan and the Operation, Maintenance and Monitoring Plan for the vapor mitigation system in the planned onsite building. All stated plans appear acceptable at this time, and you may proceed with the work as described in the plans.

A few reminders:

- Employ the necessary erosion control and storm water management practices to prevent possible impacted sediments from migrating offsite.
- Manage the site to prevent public direct contact of contaminated media.
- Fully document field activities so as to complete all post-closure modification reporting requirements.
- The Department should be notified of any significant deviations or delays in the planned scope of work.

If you have any questions regarding the submittals or planned work, feel free to give me a call or email.

Regards.

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

Adam McIlheran
Hydrogeologist – Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
Southeast Region, Milwaukee Service Center
2300 N. Dr. Martin Luther King Dr.

Milwaukee, WI 53212
Phone: (414) 263-8369
Adam.McIlheran@wisconsin.gov

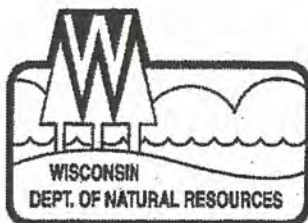


Attachments

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- image003.gif (578B)
- image004.gif (606B)
- image005.gif (626B)
- image006.gif (636B)

ATTACHMENT 2

**WDNR FINAL CASE CLOSURE LETTER,
DATED MAY 1, 2008**



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8716
TTY 414-263-8713

May 1, 2008

Mr. Floyd Berggren
Berggren Investment Company, LLP
2979 Maple Road
Jackson, WI 53037

SUBJECT: Final Case Closure, 709-733 East Capitol Drive, Milwaukee WI. FID # 241975140
BRRTs # 02-41-200169

Dear Mr. Floyd:

On May 1, 2008, the Department of Natural Resources reviewed your request for closure of the case described above. The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases.

On February 8, 2000 you were notified that the Closure had granted conditional closure to this case.

On December 5, 2007 the Department received correspondence indicating that you have complied with the requirements of closure by submitting a complete GIS packet for soil and groundwater contamination.

Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wisconsin Administrative Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

GIS Registry

The conditions of case closure set out below in this letter require that your site be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination (ethylbenzene) exists that must be properly managed should it be excavated or removed.
- Groundwater contamination is present above Chapter NR 140 enforcement standards (Naphthalene and total TMB).

Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at: <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval,

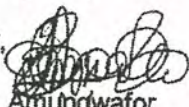
Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line <http://dnr.wi.gov/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

Remaining Residual Soil Contamination

Residual soil contamination remains at the estimated extent of soils above generic RCLs in the areas of SB-10, SB-15, SB-16, SB-18, SB-19 and SB-20 as indicated in the information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

We appreciate your efforts to restore the environment at this site to productive use. If you have any questions regarding this letter, please contact me at (414)263-8607.

Sincerely,


Binyoti F. Amungwafor
Hydrogeologist

CC: Ms. Shelley L. Hildebrandt, MidWest Engineering Services, Inc.
Case file

ATTACHMENT 3

SOIL MANAGEMENT PLAN



ENVIRONMENTAL CONSULTING, INC.
2002 RENAISSANCE BOULEVARD
SUITE 110
KING OF PRUSSIA, PENNSYLVANIA 19406

Telephone: (610) 279-7070

Facsimile: (610) 279-4334

SOIL MANAGEMENT PLAN

**733 EAST CAPITOL DRIVE
(FORMERLY 709 EAST CAPITOL DRIVE)
CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN 53212**

Prepared by:

Environmental Consulting, Inc.
2002 Renaissance Boulevard
Suite 110
King of Prussia, Pennsylvania 19406

Prepared for:

Attention: Mr. Robert Murdocca
Palestra Real Estate Partners, Inc.
808 Montparnasse Place
Newtown Square, Pennsylvania 19073

A handwritten signature in black ink that reads "Samuel J. Kucia". The signature is written in a cursive style with a horizontal line underneath it.

Samuel J. Kucia
Vice President

April 14, 2017

A handwritten signature in black ink that reads "Richard S. Werner". The signature is written in a cursive style with a horizontal line underneath it.

Richard S. Werner, P.G.
President

Project No. 2016.110

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1.0 INTRODUCTION

This Soil Management Plan (“SMP”) was prepared on behalf of Palestra Real Estate Partners, Inc. (“Client”) in connection with the development of the proposed DaVita Inc. Northshore Dialysis facility located at 733 East Capitol Drive (formerly 709 East Capitol Drive) in City of Milwaukee, Milwaukee County, Wisconsin, referenced hereinafter as the subject property. This SMP was prepared as part of a Post-Closure Modification request and subsequent report for the Wisconsin Department of Natural Resources (“WDNR”) due to the existing contaminated soil and groundwater identified on the subject property that will require proper management on-site during the proposed construction activities.

On May 1, 2008, WDNR issued a letter granting case closure of the subject property allowing contaminated soil and groundwater to be managed in-place via engineering controls (i.e., asphalt cap) and institutional controls which consists of the inclusion of the subject property in Wisconsin’s GIS Registry system.

The objective of this SMP is to identify and describe the procedures to be followed during the construction activities associated with the development of the proposed dialysis facility due to the contaminated soil and groundwater located on the subject property.

The recommended cleanup plan for the contaminated soil and groundwater consists of the installation of proper engineering controls and institutional controls to eliminate potential exposure to the contaminants on the subject property. The engineering control will consist of the installation of a site-wide cap. The site-wide cap, which will be constructed as part of the planned development of the subject property, will consist of a combination of concrete building slabs, asphalt and concrete pavement and vegetated clean fill. Groundwater is not expected to be encountered during the proposed development activities on the subject property. The institutional controls will consist of the inclusion of the subject property in Wisconsin’s GIS Registry system.

This SMP will be modified and updated as needed. The personnel involved with the site construction activities will be informed of changes made to the SMP.

2.0 SITE DESCRIPTION

The subject property consists of approximately 31,500 square feet of vacant land. The subject property is located at the southeast corner of the intersection of East Capitol Drive and North Fratney Street. The subject property currently consists of a paved asphalt parking lot associated with a multi-tenant commercial shopping center anchored by a Piggly Wiggly supermarket. The subject property is located on the *Milwaukee, Wisconsin* United States Geological Survey (“USGS”) 7.5 minute topographic quadrangle, dated 2016. A copy of a portion of the USGS topographic quadrangle identifying the location of the subject property is included as Appendix A. A copy of a Site Map illustrating the existing layout and features of the subject property is included in Appendix B.

3.0 PROPOSED SITE DEVELOPMENT ACTIVITIES

Based on a review of set of drawings, prepared by StudioGC Architects, dated January 31, 2017, the proposed development activities for the subject property includes the following scope of work:

- construction of one (1) one-story, slab on-grade steel-framed commercial building with an approximate building footprint of 6,070 square feet.
- construction of a paved asphalt parking lot;
- construction of concrete flatwork areas; and
- construction of limited landscaped areas.

A copy of a Site Plan prepared by StudioGC Architects dated January 31, 2017 illustrating the proposed development of the subject property is included in Appendix C.

4.0 PROPOSED REUSE OF ON-SITE MATERIAL

The contaminated soil to remain on the subject property will be managed in accordance with appropriate engineering and institutional controls as described in the Post-Closure Modification request prepared by Environmental Consulting, Inc., dated February 21, 2017. The engineering controls will consist of a physical barrier (i.e., site-wide cap) to limit potential exposure and/or contaminant migration associated with the underlying contaminated soil and groundwater on the subject property. The site-wide cap, which will be constructed as part of the planned redevelopment of the subject property in accordance with RR-709, will consist of a combination of concrete building slabs; asphalt and concrete pavement; and vegetated clean fill. The landscaped areas will be covered with two (2) feet of clean fill, which will consist of six (6) inches of top soil overlying 1.5 feet of clay. A demarcation barrier (e.g., geotextile fabric) will be placed between the clean fill barrier and the underlying soils.

During the site development activities, Environmental Consulting, Inc.'s on-site representative will be present on the subject property to observe the contractor and to ensure the proper implementation of this SMP and a Site-Specific Health and Safety Plan, which was prepared under separate cover by Environmental Consulting, Inc. dated February 21, 2017. Contaminated soil encountered during the site development activities to be reused on-site will be temporarily stockpiled on and covered with 6-mil polyethylene sheeting in dedicated areas to be identified by the Client and/or Contractor.

The contaminated soil excavated on the subject property as part of the site development activities will be visually inspected and will be field screened with a photo ionization detector ("PID") to determine the presence or absence of volatile organic compounds ("VOCs"). In the event that solid waste materials are encountered within the excavated contaminated soil, the solid waste materials will be segregated and characterized for proper off-site disposal in accordance with applicable federal, state and local regulations. The contaminated soil temporarily stockpiled on the subject property will be backfilled and placed under the final site-wide cap.

5.0 WASTE MANAGEMENT PROCEDURES

Based on grading calculations from the Client and the Client's design/construction representatives for the proposed development of the subject property, less than 100 cubic yards of surplus soil will be generated during the proposed construction activities that will require transportation off-site to a permitted facility for disposal. Depths of the proposed excavations (e.g., footers and utility trenches) on the subject property are expected to be less than four (4) feet below ground surface ("bgs"). In accordance with NR 718.12 (i.e., DNR RR-060), one (1) soil sample will be collected from the surplus soil stockpile and submitted to a certified laboratory for VOCs analysis.

Surplus soil which contains contaminant concentrations above applicable WDNR standards will be temporarily stockpiled on and covered with 6-mil polyethylene sheeting pending approval for off-site disposal. The contaminated soil designated for off-site disposal will be properly characterized via further laboratory analysis, if required, in order to obtain approval from the disposal facility. After approval from the disposal facility, the contaminated soil will be loaded into trucks for transportation off-site to an approved facility for disposal. Management of contaminated soil during the redevelopment of the subject property will be completed in accordance with NR 718.2 and NR 718.5 (i.e., DNR RR-060).

6.0 HEALTH AND SAFETY PROCEDURES

Contaminated soil and groundwater exist on the subject property. The proposed construction activities on the subject property should not pose any type of risk to off-site personnel or the public. The risk is considered negligible. However, in the event that a risk to off-site personnel or the public would occur, the appropriate changes to this SMP and to the Site-Specific Health and Safety Plan dated February 21, 2017 will be made and Environmental Consulting, Inc. will inform the parties that may be affected. Unauthorized personnel will not be allowed in the immediate area or surrounding areas during the construction activities.

7.0 STORMWATER POLLUTION PREVENTION AND SOIL EROSION CONTROLS

Prior to implementation of the site development activities, perimeter stormwater runoff controls and soil erosion and sedimentation control measures should be in-place in accordance with an approved Soil Erosion and Sediment Control Plan. Additional stormwater pollution prevention methods will be implemented as necessary upon excavation of contaminated soil. These methods include, but are not limited to, stabilization of historic fill stockpiles with 6-mil polyethylene sheeting. Covering of the stockpiles should be in good condition, joined at the seams, and securely anchored.

Construction best management practices (“BMPs”) should also be implemented to control, reduce or prevent discharges of pollutants from construction activities. Excavation of contaminated soil should include the following BMPs:

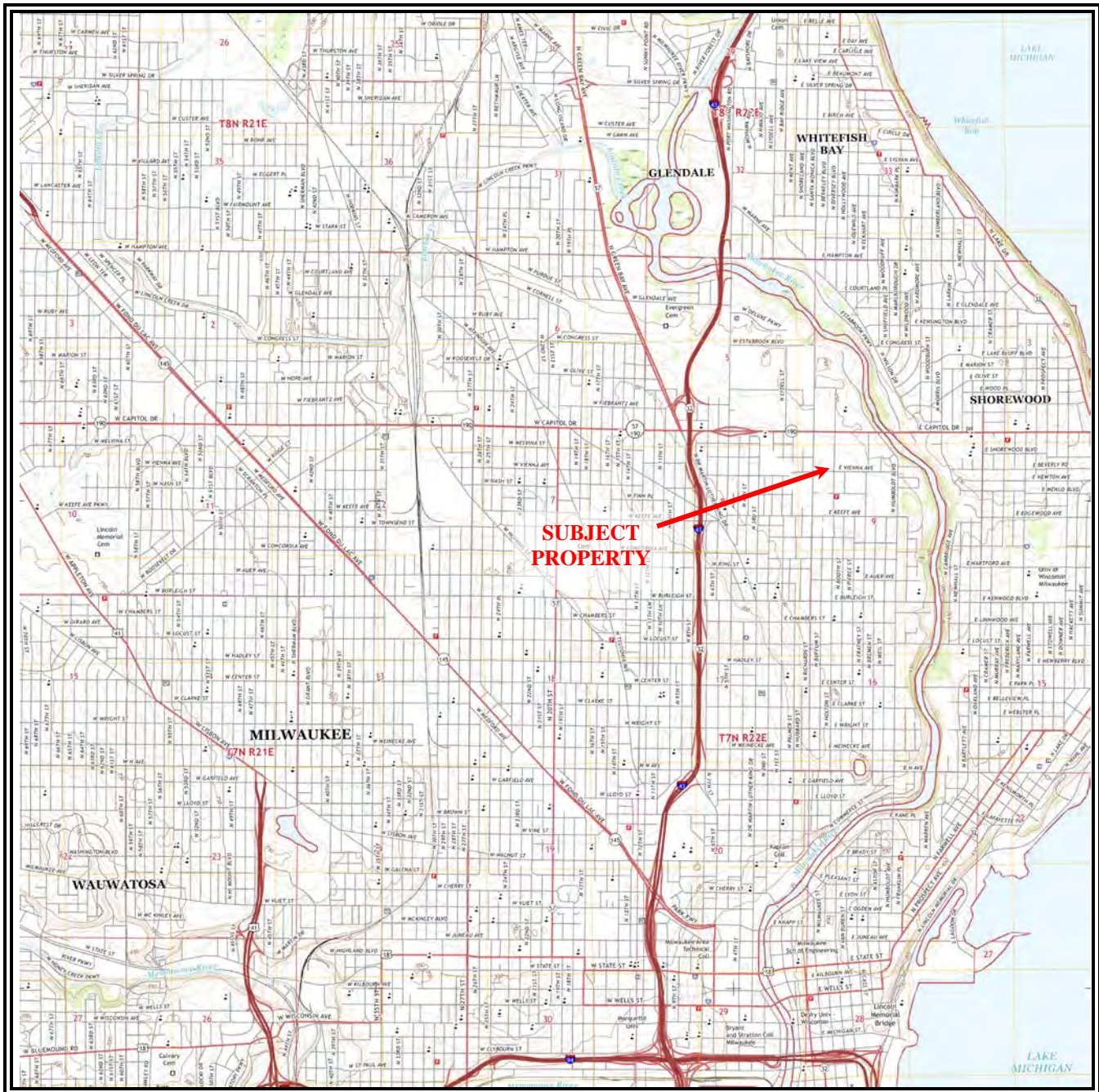
- Schedule excavation work for dry weather periods when possible;
- Protect stormwater drains or inlets using earth dikes, straw bales, sand bags, absorbent socks, or other controls to divert or trap and filter stormwater runoff; and
- Avoid over application by water trucks for dust control (see Section 8.0).

8.0 DUST CONTROL

Dust control measures such as wetting the soil as necessary, utilizing appropriate tarped containers and transport vehicles, covering excavated areas and surplus soil stockpiles should be implemented as needed to mitigate fugitive dust.

APPENDIX A

PROPERTY LOCATION MAP



709 East Capitol Drive
 City of Milwaukee, Milwaukee County, Wisconsin 53212
 Project No. 2016.110

**PROPERTY
 LOCATION MAP**



ENVIRONMENTAL CONSULTING, INC.
 2002 RENAISSANCE BOULEVARD
 SUITE 110
 KING OF PRUSSIA, PENNSYLVANIA 19406

**MILWAUKEE, WI
 USGS QUADRANGLE
 2016
 SCALE: UNKNOWN**

APPENDIX B

EXISTING CONDITIONS PLAN

APPENDIX C

PROPOSED DEVELOPMENT PLAN

ATTACHMENT 4

SURPLUS SOIL DISPOSAL MANIFESTS



13970586

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584395

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
 Ticket Date 09/15/2017 Vehicle# 104 Volume
 Payment Type Credit Account Contains
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0004157
 State Waste Code BR-23 Gen EPA ID
 Manifest 699477
 Destination Grid
 PC
 Profile BID127529WI (SDIL FROM EXCAVATION FOR NEW BUILDING)
 Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| Time | Scale | Operator | Inbound | Gross | 80680 lb |
|-------------------------|----------|-----------|---------|-------|----------|
| In 09/15/2017 16:28:17 | InBound | AKOLLMANN | | Tare | 28560 lb |
| Out 09/15/2017 16:36:37 | OutBound | AKOLLMANN | | Net | 52120 lb |
| | | | | Tons | 26.06 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 26.06 | Tons | | | | WI |
| 2 ENVY-ENVIRONMENTAL | 100 | 26.06 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 26.06 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970585

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584304

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
Ticket Date 09/15/2017 Vehicle# 42 Volume
Payment Type Credit Account Container#
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004157
State Waste Code BR-23 Gen EPA ID
Manifest 699479
Destination Grid
PO
Profile BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING)
Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 16:26:49 | InBound | AKOLLMANN | | 83100 lb | |
| | | | | | Tare | 28360 lb |
| Out | 09/15/2017 16:34:58 | OutBound | AKOLLMANN | | Net | 54740 lb |
| | | | | | Tons | 27.37 |

Comments

| Product | LDX | Qty | UOM | Rate | Tax | Amount | Origin |
|---------|--------------------|-----|-------|------|-----|--------|--------|
| 1 | W Biorem RGC-Ton | 100 | 27.37 | Tons | | | WI |
| 2 | ENVT-ENVIRONMENTAL | 100 | 27.37 | Tons | | | WI |
| 3 | FUELT-FUEL SURCHAR | 100 | 27.37 | Tons | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature



13970584

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584302

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1208 |
| Payment Type | Credit Account | Container | Volume |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BI0127529WI (SDIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 16:22:06 | InBound | AKOLLMANN | | | 76340 lb |
| Out | 09/15/2017 16:31:43 | OutBound | AKOLLMANN | | | 28460 lb |
| | | | | | Net | 47880 lb |
| | | | | | Tons | 23.94 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 23.94 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 23.94 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 23.94 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970582

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584300

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 16:14:06 | InBound | AKOLLMANN | | 74120 lb | |
| Out | 09/15/2017 16:25:12 | OutBound | AKOLLMANN | | 28200 lb | |
| | | | | | Net | 45920 lb |
| | | | | | Tons | 22.96 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 22.96 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 22.96 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 22.96 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N





13970579

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584296

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1018 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | 699505 | | |
| Destination | | Grid | |
| PD | | | |
| Profile | B10127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------------------|
| In | 09/15/2017 15:55:41 | InBound | AKOLLMANN | | Tare | 81080 lb 28880 lb |
| Out | 09/15/2017 16:05:09 | OutBound | AKOLLMANN | | Net | 52200 lb |
| | | | | | Tons | 26.10 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 26.10 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 26.10 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 26.10 | Tons | | | | WI |

403WM-N

Total Tax
Total Ticket

Driver's Signature





13970529

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584219

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BI0127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 13:41:17 | InBound | AKOLLMANN | | | 69540 lb |
| Out | 09/15/2017 13:49:21 | OutBound | AKOLLMANN | | | 28280 lb |
| | | | | | Net | 41260 lb |
| | | | | | Tons | 20.63 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 20.63 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 20.63 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 20.63 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970573

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584281

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 42 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | 699480 | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BIQ127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 15:05:16 | InBound | AKOLLMANN | | | 81940 lb |
| Out | 09/15/2017 15:13:44 | OutBound | AKOLLMANN | | | 28400 lb |
| | | | | | Net | 53540 lb |
| | | | | | Tons | 26.77 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 26.77 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 26.77 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 26.77 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Deliver to Signature





13970574

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584283

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | 699478 | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BI0127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 15:06:57 | InBound | AKOLLMANN | | 77360 lb | |
| Out | 09/15/2017 15:14:28 | OutBound | AKOLLMANN | | 28620 lb | |
| | | | | | Net | 48740 lb |
| | | | | | Tons | 24.37 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 24.37 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 24.37 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 24.37 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970568

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584276

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1208 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BI0127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 14:58:50 | InBound | AKOLLMANN | | | 71300 lb |
| Out | 09/15/2017 15:06:23 | OutBound | AKOLLMANN | | | 28520 lb |
| | | | | | Net | 42780 lb |
| | | | | | Tons | 21.39 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 21.39 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 21.39 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 21.39 | Tons | | | | WI |

403WM-N

Total Tax
Total Ticket



Driver's Signature



13970563

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584274

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 68260 lb |
| In | 09/15/2017 14:52:35 | InBound | AKOLLMANN | | Tare | 28220 lb |
| Out | 09/15/2017 15:02:06 | OutBound | AKOLLMANN | | Net | 40040 lb |
| | | | | | Tons | 20.02 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 20.02 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 20.02 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 20.02 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970560

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584264

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1018 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | N | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BI0127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 14:36:33 | InBound | AKOLLMANN | | | 80880 lb |
| Out | 09/15/2017 14:45:37 | OutBound | AKOLLMANN | | | 28900 lb |
| | | | | | Net | 51980 lb |
| | | | | | Tons | 25.99 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 25.99 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 25.99 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 25.99 | Tons | | | | WI |

403WM-N

Tom

Driver's Signature

Total Tax
Total Ticket





13970540

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584237

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | B10127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 75460 lb |
| In | 09/15/2017 13:56:42 | InBound | AKOLLMANN | | Tare | 28660 lb |
| Out | 09/15/2017 14:04:24 | OutBound | AKOLLMANN | | Net | 46800 lb |
| | | | | | Tons | 23.40 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 23.40 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 23.40 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 23.40 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature



13970533

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584223

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEBRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1208 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 75960 lb |
| In | 09/15/2017 13:46:04 | InBound | AKOLLMANN | | Tare | 28600 lb |
| Out | 09/15/2017 13:54:42 | OutBound | AKOLLMANN | | Net | 47360 lb |
| | | | | | Tons | 23.68 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem R6C-Ton | 100 | 23.68 | Tons | | | | WI |
| 2 ENVY-ENVIRONMENTAL | 100 | 23.68 | Tons | | | | WI |
| 3 FUEL-FUEL SURCHAR | 100 | 23.68 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature



13970519

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584207

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1018 |
| Payment Type | Credit Account | Container | Volume |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BI0127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 13:17:40 | InBound | AKOLLMANN | | | 70040 lb |
| Out | 09/15/2017 13:28:39 | OutBound | AKOLLMANN | | | 28940 lb |
| | | | | | Net | 41100 lb |
| | | | | | Tons | 20.55 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 20.55 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 20.55 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 20.55 | Tons | | | | WI |

403WM-N

Tons

Total Tax
Total Ticket



Signature



13970466

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584134

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
 Ticket Date 09/15/2017 Vehicle# 1208 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0004157
 State Waste Code BR-23 Gen EPA ID
 Manifest na
 Destination Grid
 PD
 Profile BIO127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING)
 Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| Time | Scale | Operator | Inbound | Gross | 73780 lb |
|-------------------------|----------|-----------|---------|-------|----------|
| In 09/15/2017 11:25:30 | InBound | AKOLLMANN | | Tare | 28700 lb |
| Out 09/15/2017 11:34:13 | OutBound | AKOLLMANN | | Net | 45080 lb |
| | | | | Tons | 22.54 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 22.54 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 22.54 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 22.54 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N





Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

13970467

Original
Ticket# 1584137

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | na | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 71920 lb |
| In | 09/15/2017 11:28:44 | InBound | AKOLLMANN | | Tare | 28740 lb |
| Out | 09/15/2017 11:36:32 | OutBound | AKOLLMANN | | Net | 43180 lb |
| | | | | | Tons | 21.59 |

Comments

| Product | LDX | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 21.59 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 21.59 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 21.59 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N



Driver's Signature



13970482

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584151

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1018 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BI0127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 12:01:50 | InBound | AKOLLMANN | | 82840 lb | |
| Out | 09/15/2017 12:10:49 | OutBound | AKOLLMANN | | 29020 lb | |
| | | | | | Net | 53820 lb |
| | | | | | Tons | 26.91 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 26.91 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 26.91 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 26.91 | Tons | | | | WI |

403WM-N

Tom

Total Tax
Total Ticket

Driver's Signature





13970495

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584174

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | Volume |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | Grid | |
| Destination | | | |
| PD | | | |
| Profile | BIO127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 12:31:14 | InBound | AKOLLMANN | | | 65940 lb |
| Out | 09/15/2017 12:40:22 | OutBound | AKOLLMANN | | | 28300 lb |
| | | | | | Net | 37640 lb |
| | | | | | Tons | 18.82 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 18.82 | Tons | | | | WI |
| 2 ENVY-ENVIRONMENTAL | 100 | 18.82 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 18.82 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970421

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584079

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1208 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | B10127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 70600 lb |
| In | 09/15/2017 10:11:12 | InBound | AKOLLMANN | | Tare | 28720 lb |
| Out | 09/15/2017 10:20:58 | OutBound | AKOLLMANN | | Net | 41880 lb |
| | | | | | Tons | 20.94 |

Comments

| Product | LDX | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 20.94 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 20.94 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 20.94 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970441

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584105

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
Ticket Date 09/15/2017 Vehicle# 1018 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004157
State Waste Code BR-23 Gen EPA ID
Manifest na
Destination Grid
PD
Profile BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING)
Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| | Time | Scale | Operator | Inbound | Gross | 78220 lb |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 10:47:47 | InBound | AKOLLMANN | | Tare | 29060 lb |
| Out | 09/15/2017 10:57:59 | OutBound | AKOLLMANN | | Net | 49160 lb |
| | | | | | Tons | 24.58 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 24.58 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 24.58 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 24.58 | Tons | | | | WI |

403WM-N

Total Tax
Total Ticket

Driver's Signature





Orchard Ridge RDF
 W124 N9355 Boundary Road
 Menomonee Falls, WI, 53051
 Ph: (262) 253-8620

13970461

Original
 Ticket# 1584128

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
 Ticket Date 09/15/2017 Vehicle# 98 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0004157
 State Waste Code BR-23 Gen EPA ID
 Manifest na
 Destination Grid
 PO
 Profile BID127529WI (SDIL FROM EXCAVATION FOR NEW BUILDING)
 Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| | Time | Scale | Operator | Inbound | Gross | 67760 lb |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 11:20:41 | InBound | AKOLLMANN | | Tare | 28340 lb |
| Out | 09/15/2017 11:27:49 | OutBound | AKOLLMANN | | Net | 39420 lb |
| | | | | | Tons | 19.71 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 19.71 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 19.71 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 19.71 | Tons | | | | WI |

Total Tax
 Total Ticket

403WM-N

Driver's Signature





Orchard Ridge RDF
 W124 N9355 Boundary Road
 Menomonee Falls, WI, 53051
 Ph: (262) 253-8620

13970501

Original
 Ticket# 1584183

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
 Ticket Date 09/15/2017 Vehicle# 1208 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0004157
 State Waste Code BR-23 Gen EPA ID
 Manifest NA
 Destination Grid
 PO
 Profile BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING)
 Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 12:38:52 | InBound | AKOLLMANN | | | 74260 lb |
| Out | 09/15/2017 12:46:53 | OutBound | AKOLLMANN | | | 28640 lb |
| | | | | | Net | 45620 lb |
| | | | | | Tons | 22.81 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 22.81 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 22.81 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 22.81 | Tons | | | | WI |

Total Tax
 Total Ticket

403WM-N

Driver's Signature





13970502

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584186

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | Volume |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 12:42:21 | InBound | AKOLLMANN | | | 77640 lb |
| Out | 09/15/2017 12:50:17 | OutBound | AKOLLMANN | | Tare | 28700 lb |
| | | | | | Net | 48940 lb |
| | | | | | Tons | 24.47 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 24.47 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 24.47 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 24.47 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970394

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584047

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 1018 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BIO127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 09:29:06 | InBound | AKOLLMANN | | 79460 lb | |
| Out | 09/15/2017 09:41:55 | OutBound | AKOLLMANN | | 29120 lb | |
| | | | | | Net | 44340 lb |
| | | | | | Tons | 22.17 |

Comments

| Product | LDX | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 22.17 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 22.17 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 22.17 | Tons | | | | WI |

403WM-N

Total Tax
Total Ticket

Driver's Signature





13970420

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584077

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 10:09:24 | InBound | AKOLLMANN | | 69540 lb | |
| Out | 09/15/2017 10:20:15 | OutBound | AKOLLMANN | | 28360 lb | |
| | | | | | Net | 41180 lb |
| | | | | | Tons | 20.59 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 20.59 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 20.59 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 20.59 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970384

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584035

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BI0127529WI (SDIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| In | 09/15/2017 09:01:51 | InBound | AKOLLMANN | | 73780 | lb |
| Out | 09/15/2017 09:12:02 | OutBound | AKOLLMANN | | 28840 | lb |
| | | | | | Net | 44940 lb |
| | | | | | Tons | 22.47 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 22.47 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 22.47 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 22.47 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Vendor Signature





13970422

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584082

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
Ticket Date 09/15/2017 Vehicle# 104 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004157
State Waste Code BR-23 Gen EPA ID
Manifest NA
Destination Grid
PO
Profile BID127529WI (SDIL FROM EXCAVATION FOR NEW BUILDING)
Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| Time | Scale | Operator | Inbound | Gross | 74320 lb |
|-------------------------|----------|-----------|---------|-------|----------|
| In 09/15/2017 10:14:07 | InBound | AKOLLMANN | | Tare | 28820 lb |
| Out 09/15/2017 10:23:30 | OutBound | AKOLLMANN | | Net | 45500 lb |
| | | | | Tons | 22.75 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 22.75 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 22.75 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 22.75 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970339

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1583963

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BIO127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 07:24:37 | InBound | AKOLLMANN | | 76640 lb | |
| Out | 09/15/2017 07:36:36 | OutBound | AKOLLMANN | | 28880 lb | |
| | | | | | Net | 47760 lb |
| | | | | | Tons | 23.88 |

Comments

| Product | LDX | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 23.88 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 23.88 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 23.88 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970340

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1583964

Customer Name WINDLAKEGRAD WIND LAKE GRADIN Carrier WIND LAKE WIND LAKE
Ticket Date 09/15/2017 Vehicle# 98 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004157
State Waste Code BR-23 Gen EPA ID
Manifest NA
Destination Grid
PO
Profile BIO127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING)
Generator 136-DAVITADIALYSIS DAVITA DIALYSIS

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|-----------|---------|----------|----------|
| In | 09/15/2017 07:27:15 | InBound | AKOLLMANN | | 48920 lb | |
| Out | 09/15/2017 07:37:39 | OutBound | AKOLLMANN | | 28480 lb | |
| | | | | | Net | 40440 lb |
| | | | | | Tons | 20.22 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 20.22 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 20.22 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 20.22 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N



Business Signature



13970381

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584031

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/15/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | NA | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BIO127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 71120 lb |
| In | 09/15/2017 08:55:59 | InBound | AKDLLMANN | | Tare | 28440 lb |
| Out | 09/15/2017 09:05:59 | OutBound | AKDLLMANN | | Net | 42680 lb |
| | | | | | Tons | 21.34 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 21.34 | Tons | | | | WI |
| 2 ENVY-ENVIRONMENTAL | 100 | 21.34 | Tons | | | | WI |
| 3 FUEL-FUEL SURCHAR | 100 | 21.34 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970756

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584494

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/18/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | na | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|-----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 64440 lb |
| In | 09/18/2017 08:19:16 | InBound | AKOLLMANN | | Tare | 28460 lb |
| Out | 09/18/2017 08:28:32 | OutBound | AKOLLMANN | | Net | 35980 lb |
| | | | | | Tons | 17.99 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 17.99 | Tons | | | | WI |
| 2 ENVY-ENVIRONMENTAL | 100 | 17.99 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 17.99 | Tons | | | | WI |

Total Tax ..
Total Ticket

403WM-N

Driver's Signature



13970780

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584538

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/18/2017 | Vehicle# | 98 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | 699474 | | |
| Destination | | Grid | |
| PO | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | | | | | | |
|-----|---------------------|----------|----------|---------|-------|----------|
| | Time | Scale | Operator | Inbound | Gross | 77380 lb |
| In | 09/18/2017 09:38:36 | InBound | kgindt | | Tare | 28400 lb |
| Out | 09/18/2017 09:47:52 | OutBound | kgindt | | Net | 48980 lb |
| | | | | | Tons | 24.49 |

Comments

| Product | LD% | Qty | UOM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 24.49 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 24.49 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 24.49 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature





13970799

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584561

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/18/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | 699498 | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BID127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|----------|---------|-------|----------------------|
| In | 09/18/2017 10:05:28 | InBound | jgindt | | Tare | 71780 lb 28780 lb |
| Out | 09/18/2017 10:17:02 | OutBound | jgindt | | Net | 43000 lb |
| | | | | | Tons | 21.50 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RBC-Ton | 100 | 21.50 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 21.50 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 21.50 | Tons | | | | WI |

Total Tax
Total Ticket

403WM-N

Driver's Signature



13970768

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI, 53051
Ph: (262) 253-8620

Original
Ticket# 1584514

| | | | |
|------------------|---|------------|---------------------|
| Customer Name | WINDLAKEGRAD WIND LAKE GRADIN | Carrier | WIND LAKE WIND LAKE |
| Ticket Date | 09/18/2017 | Vehicle# | 104 |
| Payment Type | Credit Account | Container | |
| Manual Ticket# | | Driver | |
| Hauling Ticket# | | Check# | |
| Route | | Billing # | 0004157 |
| State Waste Code | BR-23 | Gen EPA ID | |
| Manifest | 699476 | | |
| Destination | | Grid | |
| PD | | | |
| Profile | BIO127529WI (SOIL FROM EXCAVATION FOR NEW BUILDING) | | |
| Generator | 136-DAVITADIALYSIS DAVITA DIALYSIS | | |

| | Time | Scale | Operator | Inbound | Gross | |
|-----|---------------------|----------|----------|---------|-------|----------|
| In | 09/18/2017 08:44:16 | InBound | jgindt | | Tare | 79020 lb |
| Out | 09/18/2017 08:53:30 | OutBound | jgindt | | Net | 28900 lb |
| | | | | | Tons | 50120 lb |
| | | | | | | 25.06 |

Comments

| Product | LD% | Qty | UDM | Rate | Tax | Amount | Origin |
|----------------------|-----|-------|------|------|-----|--------|--------|
| 1 Spw Biorem RGC-Ton | 100 | 25.06 | Tons | | | | WI |
| 2 ENVT-ENVIRONMENTAL | 100 | 25.06 | Tons | | | | WI |
| 3 FUELT-FUEL SURCHAR | 100 | 25.06 | Tons | | | | WI |

Total Tax
Total Ticket

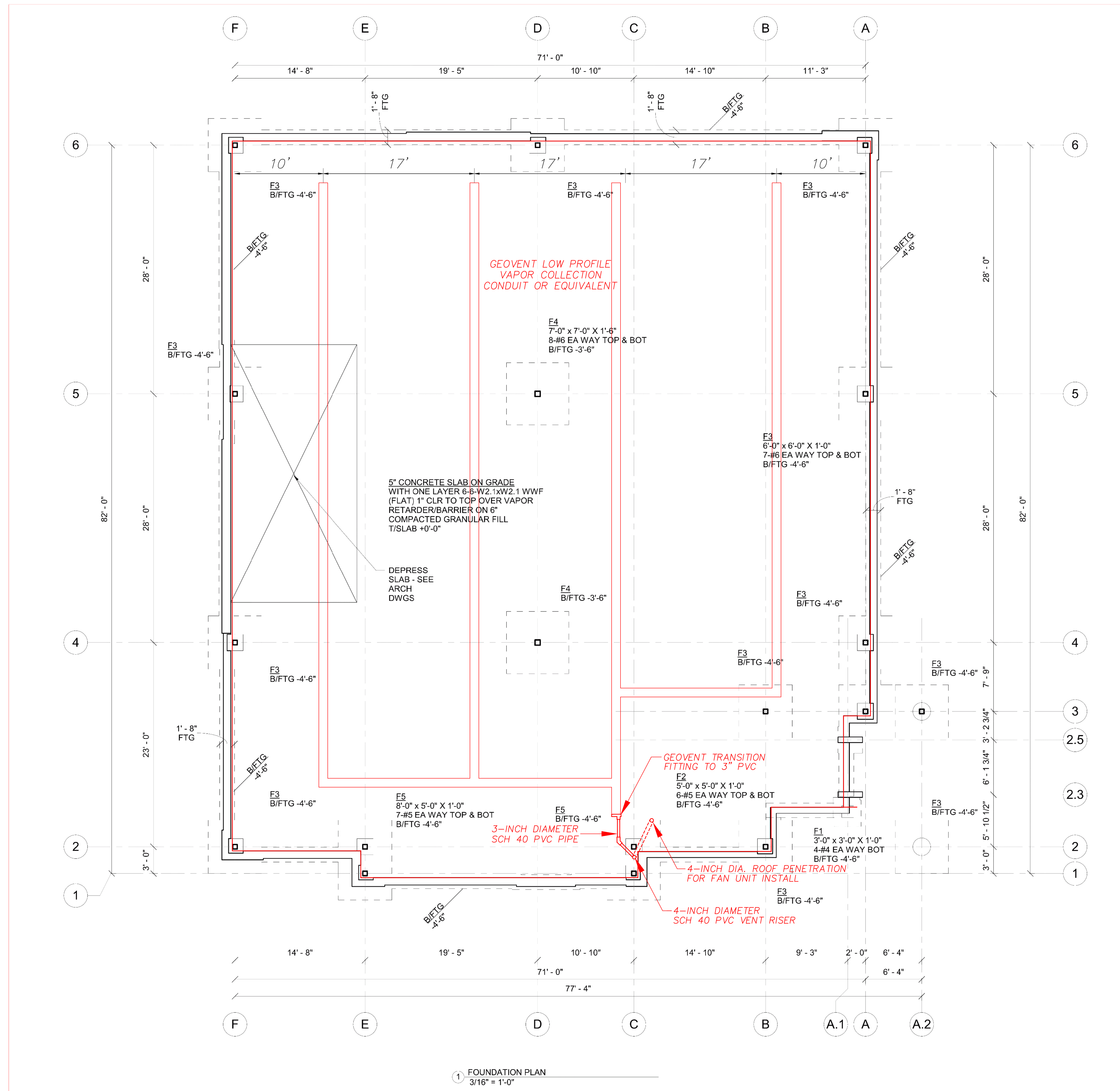
403WM-N

Driver's Signature



ATTACHMENT 5

VAPOR MITIGATION SYSTEM AS-BUILT PLANS



1 FOUNDATION PLAN
3/16" = 1'-0"

NOTES:

BASE PLAN OBTAINED FROM FOUNDATION PLAN PREPARED BY STUDIO GC, UNDATED.
SCALE IS APPROXIMATE AS THIS SITE PLAN IS INTENDED FOR ILLUSTRATIVE PURPOSES ONLY.

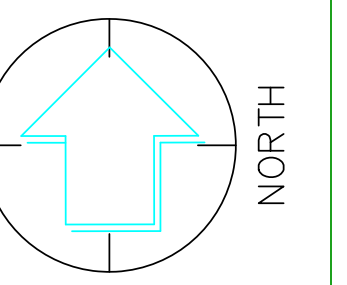
FIGURE No. 1

SCALE: 3/16" = 1'

DRAWN BY: ADH

JOB No. 2016.110

ENVIRONMENTAL CONSULTING, INC.
2002 RENAISSANCE BOULEVARD
SUITE 110
KING OF PRUSSIA, PENNSYLVANIA 19406

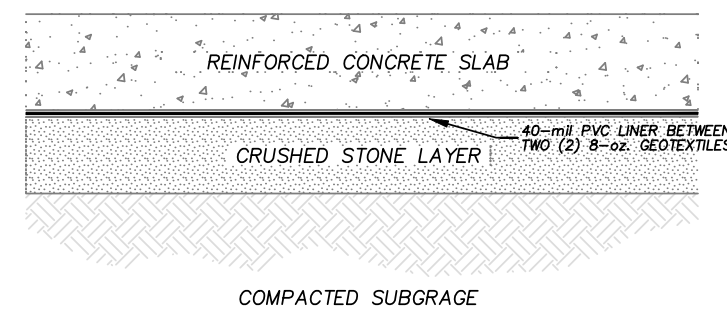


VAPOR COLLECTION SYSTEM PLAN

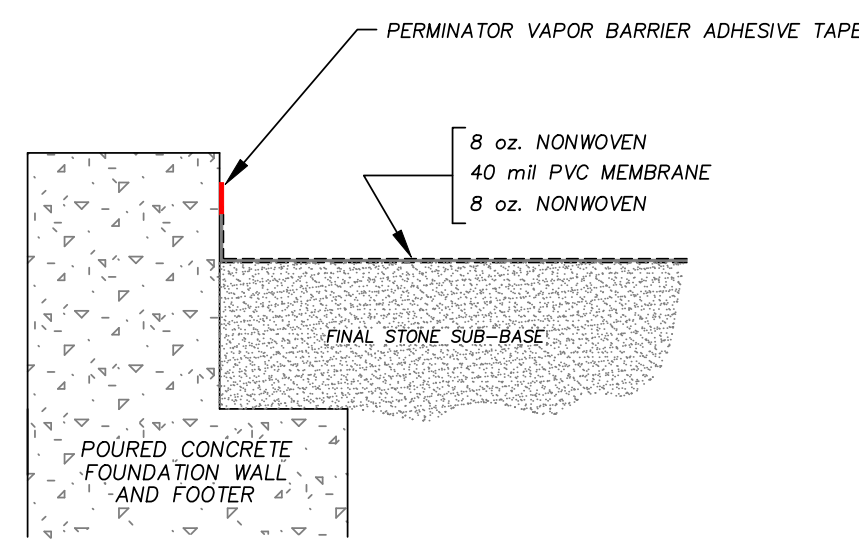
CHECKED BY: RSW

DATE: 9/20/17

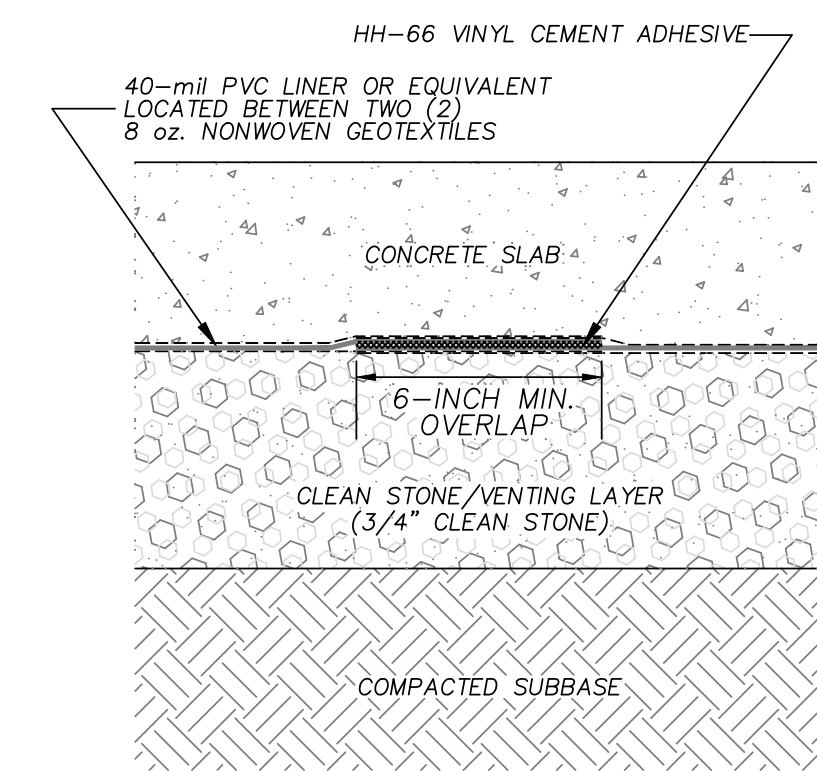
709 EAST CAPITOL DRIVE
CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN, 53212



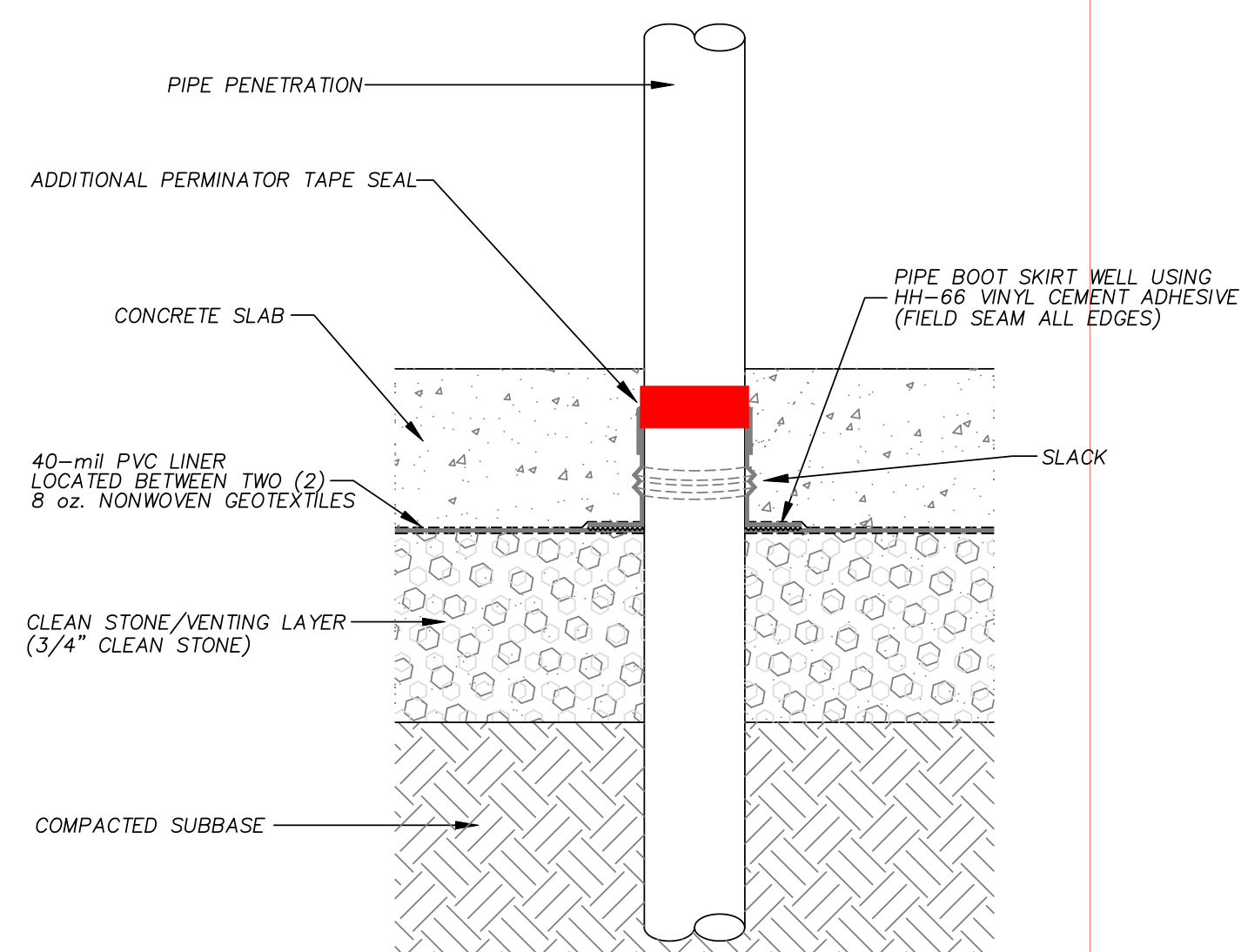
BUILDING SLAB AREA CAP WITH VAPOR BARRIER
NOT TO SCALE



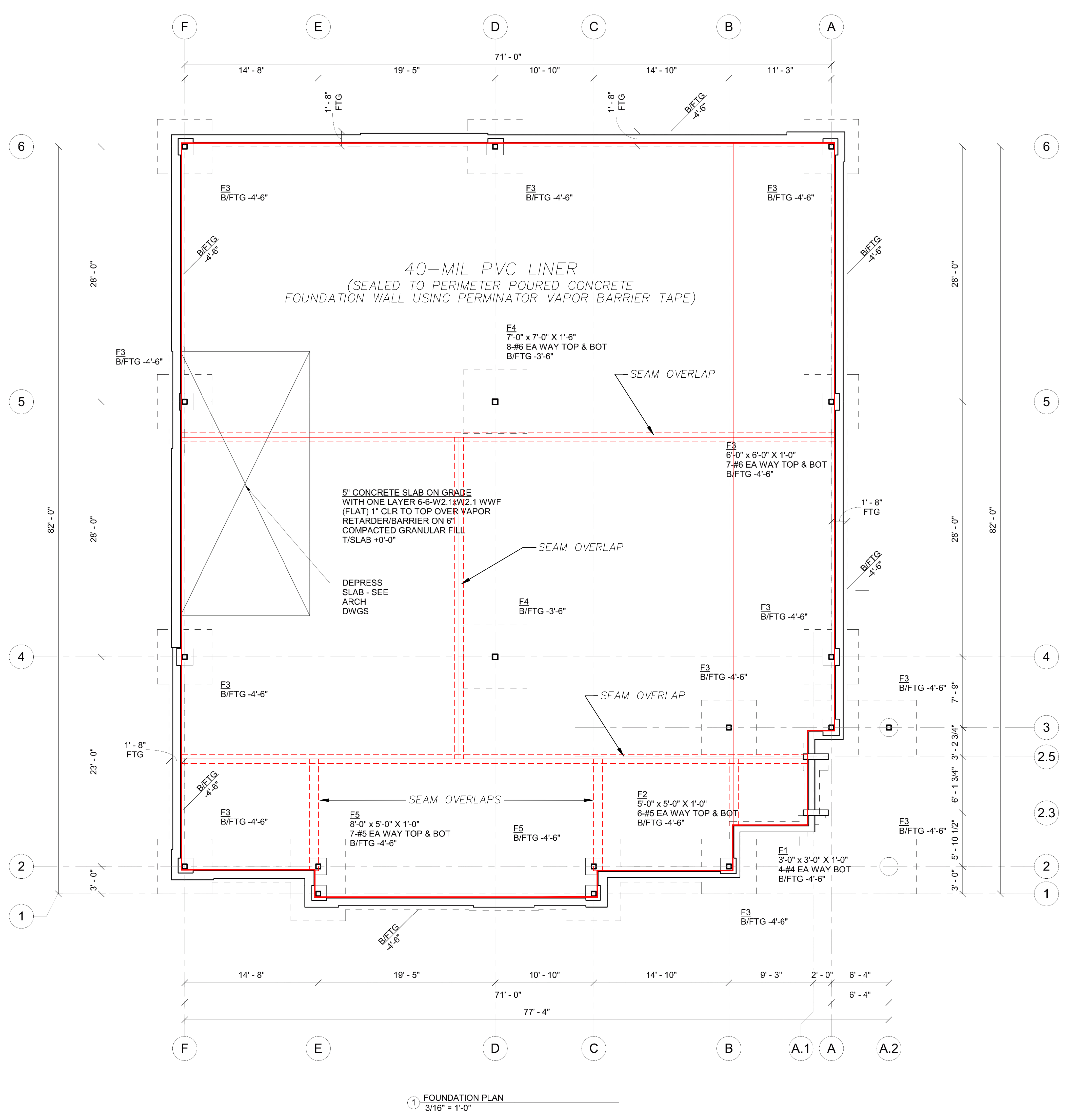
BLOCK WALL FASTENING DETAIL
NOT TO SCALE



SEAM DETAIL
NOT TO SCALE



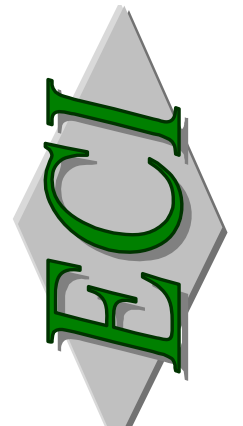
PENETRATION DETAIL
NOT TO SCALE



FOUNDATION PLAN
3/16" = 1'-0"

NOTES:

BASE PLAN OBTAINED FROM FOUNDATION PLAN PREPARED BY STUDIO GC, UNDATED.
SCALE IS APPROXIMATE AS THIS SITE PLAN IS INTENDED FOR ILLUSTRATIVE PURPOSES ONLY.

| | | | | |
|--|------------|------------|-------------|---------|
|  <p>ENVIRONMENTAL CONSULTING, INC. 2002 RENAISSANCE BOULEVARD SUITE 110 KING OF PRUSSIA, PENNSYLVANIA 19406</p> | JOB No. | 2016.110 | DATE: | 9/20/17 |
| | DRAWN BY: | ADH | CHECKED BY: | RSW |
| SCALE: | 3/16" = 1' | FIGURE No. | 2 | |
| <p>VAPOR BARRIER SYSTEM PLAN</p> | | | | |
| <p>709 EAST CAPITOL DRIVE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN, 53212</p> | | | | |

ATTACHMENT 6

**PHOTOGRAPHS FOR VAPOR MITIGATION SYSTEM
INSTALLATION**



PHOTOGRAPH #1

View of the shallow trench dug in the subbase stone layer for installation of the vapor collection media. Note low-profile vapor collection media laid out next to trench.



PHOTOGRAPH #2

View of the installation of vapor collection system in the east section of the building looking north.



PHOTOGRAPH #3

View of the installation of the vapor collection system in the west section of the building looking to the southwest.

| |
|---|
| <p>733 East Capitol Drive (Formerly 709 East Capitol Drive) Milwaukee, Milwaukee County, Wisconsin 53212 Project No. 2016.110</p> |
|  |



PHOTOGRAPH #4

View of the vapor collection system at its transition to the solid PVC header pipe leading to vent riser at the north-central portion of the building.



PHOTOGRAPH #5

View of the PVC header pipe for the vapor collection system.



PHOTOGRAPH #6

View of the PVC vent riser pipe for the vapor collection system.

| |
|---|
| <p>733 East Capitol Drive (Formerly 709 East Capitol Drive) Milwaukee, Milwaukee County, Wisconsin 53212 Project No. 2016.110</p> |
|  |



PHOTOGRAPH #7

View of the PVC vent riser penetrating the corrugated metal roof decking.



PHOTOGRAPH #8

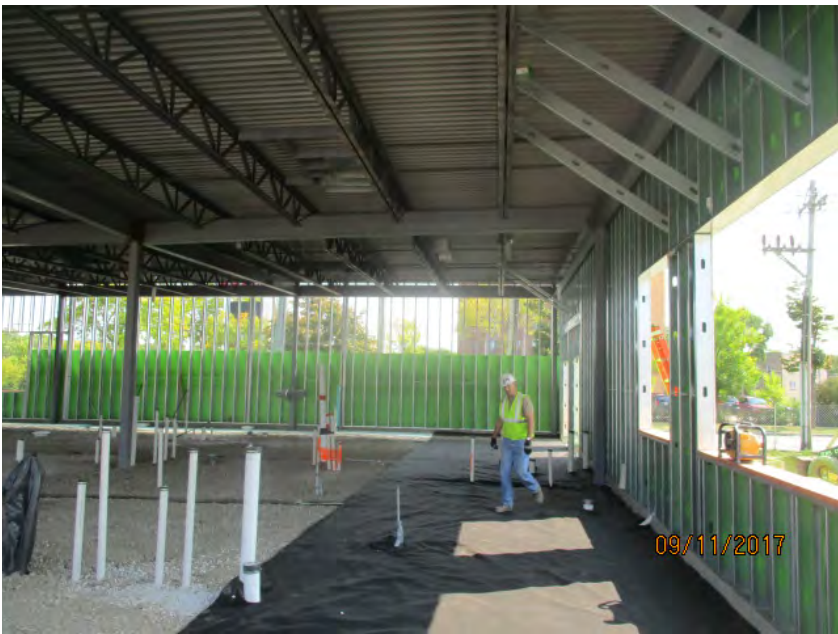
View of the PVC vent pipe above building roof.



PHOTOGRAPH #9

View of the RP265 Series in-line induction fan unit installed above roof and vent fitting.

| |
|---|
| <p>733 East Capitol Drive (Formerly 709 East Capitol Drive) Milwaukee, Milwaukee County, Wisconsin 53212 Project No. 2016.110</p> |
|  |



PHOTOGRAPH #10

View of the installation of the base protection layer 8-ounce non-woven geotextile fabric after installation of subslab vapor collection system.



PHOTOGRAPH #11

View of the complete installation of the base protection fabric layer in the building.



PHOTOGRAPH #12

View of the installation of the 40-mil PVC liner in the southern third of the building looking east.

| |
|---|
| <p>733 East Capitol Drive (Formerly 709 East Capitol Drive) Milwaukee, Milwaukee County, Wisconsin 53212 Project No. 2016.110</p> |
|  |



PHOTOGRAPH #13

View of the 40-mil PVC liner installation.



PHOTOGRAPH #14

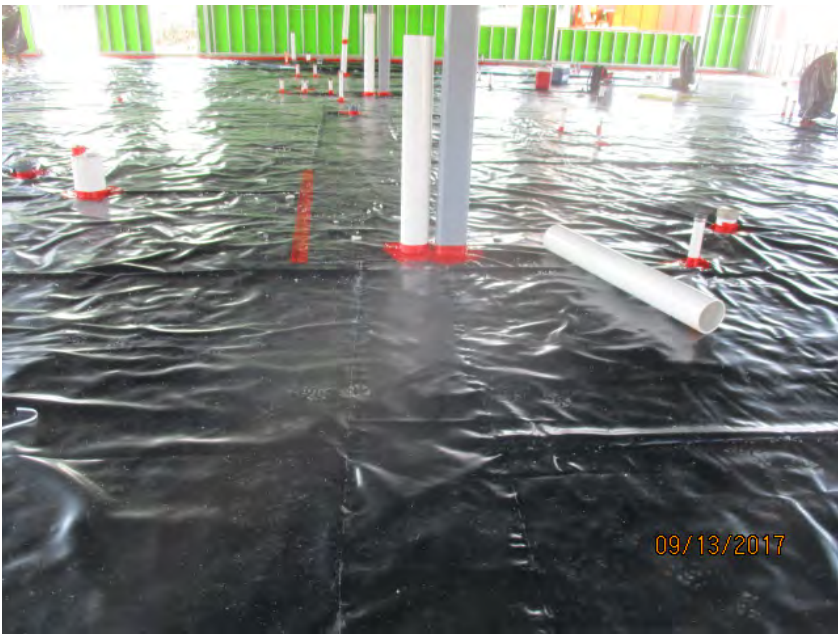
View of the 40-mil PVC liner installation showing pipe boot installation.



PHOTOGRAPH #15

View of the 40-mil PVC liner installation showing seaming activities using solvent weld compound.

| |
|---|
| <p>733 East Capitol Drive (Formerly 709 East Capitol Drive) Milwaukee, Milwaukee County, Wisconsin 53212 Project No. 2016.110</p> |
|  |



PHOTOGRAPH #16

View of the 40-mil PVC liner installation showing finished seaming and pipe penetrations boots.



PHOTOGRAPH #17

View of the installation of the top protection layer 8-ounce non-woven geotextile fabric being placed over 40-mil PVC liner.



PHOTOGRAPH #18

View of the complete installation of the top protection layer 8-ounce non-woven geotextile fabric layer ready for concrete slab installation.

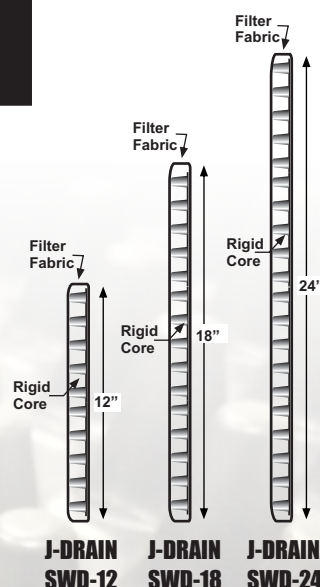
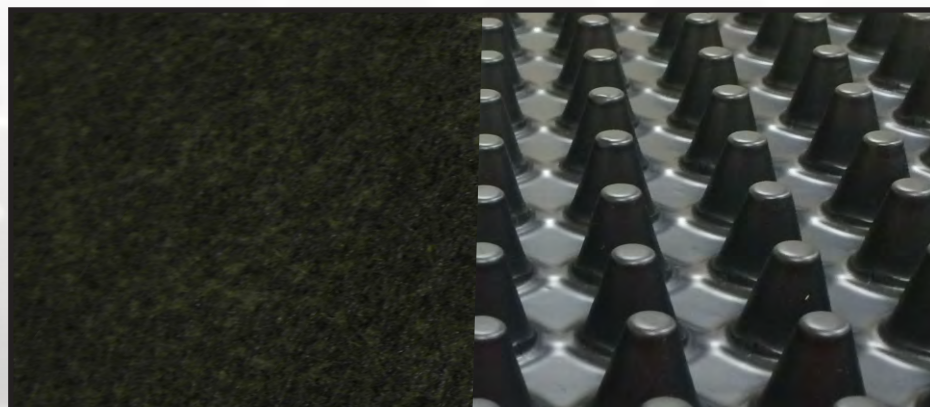
| |
|---|
| <p>733 East Capitol Drive (Formerly 709 East Capitol Drive) Milwaukee, Milwaukee County, Wisconsin 53212 Project No. 2016.110</p> |
|  |

ATTACHMENT 7

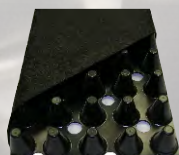
VAPOR COLLECTION MEDIA SPECIFICATIONS



J·DRAIN



J-DRAIN SWD Fittings & Accessories



| | | | | | | |
|------------------------------------|---------------------------|-------------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|
| 6" & 12" END OUTLET | 6" ONLY ENDCAP | 6" & 12" SIDE OUTLET | 6" & 12" SPLICE | 6" & 12" CORNER | 6" ONLY STEP DOWN | 6" ONLY T CONNECTOR |
|------------------------------------|---------------------------|-------------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|



J·DRAIN SWD-6,12,18,24,36

Product Description

J-DRAIN SWD consists of a heavy duty polypropylene sheet cusped under heat and pressure to form a 3 dimensional, high flow, dimpled drainage core. The core is then wrapped and bonded with a non-woven filter fabric. The filter fabric retains soil or sand particles as well as freshly placed concrete or grout, allowing filtered water to pass into the drainage core. Soil backfill is retained while allowing water to pass into the drainage system providing hydrostatic relief. Collected water is then conveyed to a collection system. The drainage core is chemically resistant and designed for applications where chemical exposure is possible. The 1 inch (25 mm) profile design allows for higher venting and flow rates.

Core

Physical Properties

Fabric

| | | | | | |
|---------------------------------------|-----------------|----------------------------|-----------------------------|-------------------------------|----------------------------|
| Compressive Strength (ASTMD-1621) | 9,500 psf | (455 kN/m ²) | Flow (ASTM D-4491) | 140 gpm/ft ² | (5704 lpm/m ²) |
| Thickness (ASTM-1777) | 1 in. | (2.54 cm.) | CBR Puncture (ASTM D-6241) | 250 lbs. | (1.11 kN) |
| In-Plane Flow (ASTMD-4716) | 30 gpm/ft width | (372 lpm/m) | AOS (ASTM D-4751) | 70 U.S. Sieve | (.212 mm) |
| (Q&518 psf & Hydraulic gradient = .1) | | | Grab Tensile (ASTM D-4632) | 100 lbs. | (.45 kN) |
| Roll | Roll Weight: | 38, 68, 83, 98, & 128 lbs. | (17, 30, 37, 44, & 57 kgs.) | Permittivity (ASTM D-4491) | 2.0 sec ⁻¹ |
| | Roll Width: | 6", 12", 18", 24", & 36" | (15, 30, 38, 45, & 60 cm.) | U.V. Resistance (ASTM D-4355) | 70% @500 hrs. |
| | Roll Length: | 165 ft. / 300 ft. | (50.29 / 91.44 meters) | | |

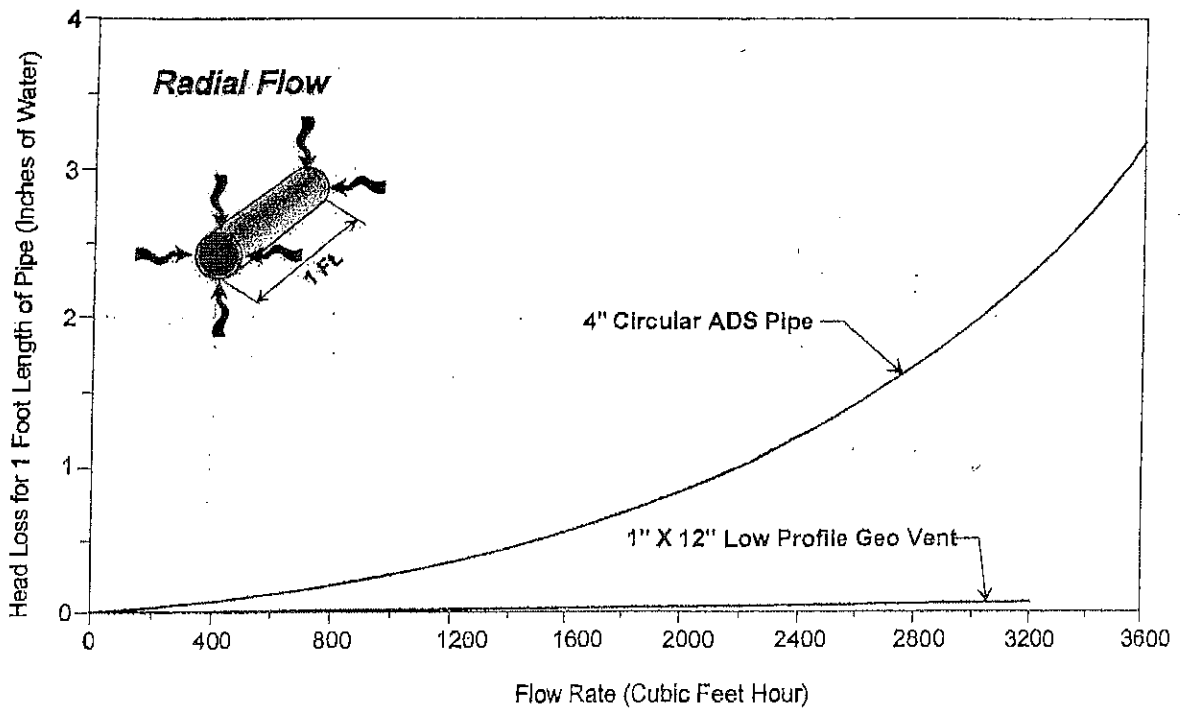
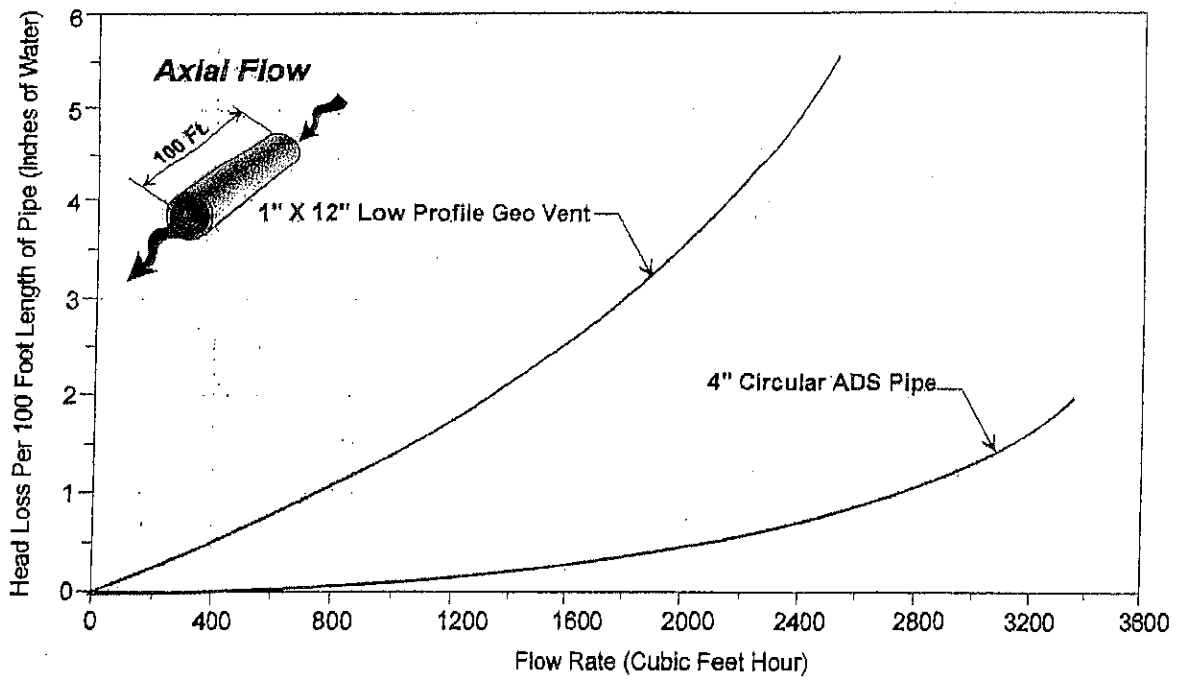
The information contained herein is believed by JDR Enterprises, Inc. to be accurate and is offered solely for the customer's consideration, investigation and verification. Determination of suitability for use is the responsibility of the user. JDR's Limitations, Limited Warranty, & Disclaimer along with Standard Terms & Conditions apply. See www.j-drain.com for more info. **Limitations:** J-DRain is resistant to chemicals in normal soil environments. However, some reagents may affect the performance of J-DRain. A JDR representative should be contacted for further information to determine the suitability of use of J-DRain in unusual soil environments. J-DRain should be limited to its exposure to ultra-violet sunlight. J-DRain should be backfilled or covered within seven days of installation. **Disclaimer:** All information, drawings and specifications are based on the latest published information at the time of printing. JDR reserves the right to make changes due to manufacturing improvements and engineering at any time. All physical properties are minimum average roll values (MARV). Standard variations of 10% in mechanical properties and 15% in hydraulic properties are normal.

info@j-drain.com

www.j-drain.com

JDR Enterprises, Inc.

292 S. Main St., Suite 200 Alpharetta, GA 30009
(800) 843-7569 (770) 442-1461



GeoKinetics
 Geotechnical &
 Environmental Engineers

**Axial and Radial Flow Characteristics
 of Vent Pipe**

ATTACHMENT 8

**RP SERIES BLOWER INSTALLATION INSTRUCTIONS
AND SPECIFICATIONS**

INSTALLS WHITE, STAYS WHITE

Radon Mitigation Fan

All RadonAway® fans are specifically designed for radon mitigation. RP Series Fans provide superb performance, run ultra-quiet and are attractive. They are ideal for most sub-slab radon mitigation systems.

Features

- NEW Stay-White™ housing
- Energy efficient
- RP140 - ENERGY STAR Most Efficient 2017
- Ultra-quiet operation
- Meets all electrical code requirements
- Water-hardened motorized impeller
- Seams sealed to inhibit radon leakage (RP140 & RP145 double snap sealed)
- ETL Listed - for indoor or outdoor use
- Thermally protected motor
- Rated for commercial and residential use



| MODEL | P/N | FAN DUCT DIAMETER | WATTS | RECOM. MAX. OP. PRESSURE "WC | TYPICAL CFM vs. STATIC PRESSURE WC | | | | |
|--------|-------|-------------------|--------|------------------------------|------------------------------------|-----|------|------|------|
| | | | | | 0" | .5" | 1.0" | 1.5" | 2.0" |
| RP140 | 28460 | 4" | 15-21 | 0.7 | 135 | 70 | - | - | - |
| RP145 | 28461 | 4" | 41-72 | 1.7 | 166 | 126 | 82 | 41 | 3 |
| RP260 | 28462 | 6" | 47-65 | 1.3 | 251 | 157 | 70 | - | - |
| RP265 | 28463 | 6" | 91-129 | 2.2 | 334 | 247 | 176 | 116 | 52 |
| RP380* | 28208 | 8" | 95-152 | 2.0 | 497 | 353 | 220 | 130 | 38 |

| Model | A | B | C |
|-------|------|--------|--------|
| RP140 | 4.5" | 9.7" | 8.5" |
| RP145 | 4.5" | 9.7" | 8.5" |
| RP260 | 6" | 11.75" | 8.6" |
| RP265 | 6" | 11.75" | 8.6" |
| RP380 | 8" | 13.41" | 10.53" |

*Currently not stay-white material.



Made in USA with U.S. and imported parts.



ETL Listed



All RadonAway® inline radon fans are covered by our 5-year, hassle-free warranty.



For Further Information, Contact Your Radon Professional:



RP / RPc Series Installation Instructions

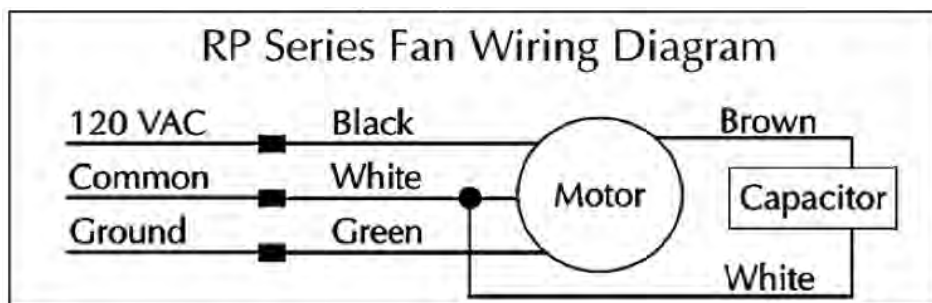


Fan Installation & Operating Instructions

Please Read and Save These Instructions.

DO NOT CONNECT POWER SUPPLY UNTIL FAN IS COMPLETELY INSTALLED. MAKE SURE ELECTRICAL SERVICE TO FAN IS LOCKED IN “OFF” POSITION. DISCONNECT POWER BEFORE SERVICING FAN.

1. **WARNING!** For General Ventilating Use Only. Do Not Use to Exhaust Hazardous, Corrosive or Explosive Materials, Gases or Vapors. See Vapor Intrusion Application Note #AN001 for important information on VI Applications. See RadonAway.com/vapor-intrusion.
2. **NOTE:** Fan is suitable for use with solid state speed controls; however, use of speed controls is not generally recommended.
2. **WARNING!** Check voltage at the fan to insure it corresponds with nameplate.
3. **WARNING!** Normal operation of this device may affect the combustion airflow needed for safe operation of fuel burning equipment. Check for possible backdraft conditions on all combustion devices after installation.
4. **NOTICE!** There are no user serviceable parts located inside the fan unit. **Do NOT attempt to open.** Return unit to the factory for service.
5. **WARNING!** Do not leave fan unit installed on system piping without electrical power for more than 48 hours. Fan failure could result from this non-operational storage.
6. **WARNING!** TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:
 - a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
 - b) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
 - c) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire rated construction.
 - d) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturers' guidelines and safety standards such as those published by any National Fire Protection Association, and the American Society for Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and the local code authorities.
 - e) When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.
 - f) Ducted fans must always be vented to outdoors.
 - g) If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) protected branch circuit.





Fan Installation & Operating Instructions

Fan Series

| | |
|-------------------|----------------------|
| RP140 P/N 28460 | RP140c P/N 23029-1 |
| RP145 P/N 28461 | RP145c P/N 23030-1 |
| RP260 P/N 28462 | RP260c P/N 23032-1 |
| RP265 P/N 28463 | RP265c P/N 23033-1 |
| RP380 P/N 28464 | |

1.0 SYSTEM DESIGN CONSIDERATIONS

1.1 INTRODUCTION

The RP / RPc Series Radon Fans are intended for use by trained, professional, certified/licensed radon mitigators. The purpose of these instructions is to provide additional guidance for the most effective use of an RP / RPC Series Fans. These instructions should be considered supplemental to EPA/radon industry standard practices, state and local building codes and regulations. In the event of a conflict, those codes, practices and regulations take precedence over these instructions.

1.2 FAN SEALING

The RP / RPc Series Fans are factory sealed; no additional caulk or other materials are required to inhibit air leakage.

1.3 ENVIRONMENTALS

The RP / RPc Series Fans are designed to perform year-round in all but the harshest climates without additional concern for temperature or weather. For installations in an area of severe cold weather, please contact RadonAway for assistance. When not in operation, the fan should be stored in an area where the temperature is never less than 32 degrees F or more than 100 degrees F.

1.4 ACOUSTICS

The RP / RPc Series Fans, when installed properly, operate with little or no noticeable noise to the building occupants. The velocity of the outgoing air should be considered in the overall system design. In some cases the “rushing” sound of the outlet air may be disturbing. In these instances, the use of a RadonAway Exhaust Muffler is recommended.

[To ensure quiet operation of inline and remote fans, each fan shall be installed using sound attenuation techniques appropriate for the installation. For bathroom and general ventilation applications, at least 8 feet of insulated flexible duct shall be installed between the exhaust or supply grille(s) and the fan(s). RP / RPc Series Fans are not suitable for kitchen range hood remote ventilation applications.]

1.5 GROUND WATER

In the event that a temporary high water table results in water at or above slab level, water may be drawn into the riser pipes, thus blocking air flow to the RP / RPc Series Fan. The lack of cooling air may result in the fan cycling on and off as the internal temperature rises above the thermal cutoff and falls upon shutoff. Should this condition arise, it is recommended that the fan be turned off until the water recedes, allowing for return to normal operation.

1.6 SLAB COVERAGE

The RP / RPc Series Fans can provide coverage up to 2000+ sq. ft. per slab penetration. This will primarily depend on the sub-slab material in any particular installation. In general, the tighter the material, the smaller the area covered per penetration. Appropriate selection of the RP / RPc Series Fan best suited for the sub-slab material can improve the slab coverage. The RP140/140c and RP145/145c are best suited for general purpose use. The RP260/260c can be used where additional airflow is required, and the RP265/265c and RP380/380c are best suited for large slab, high airflow applications. Additional suction points can be added as required. It is recommended that a small pit (5 to 10 gallons in size) be created below the slab at each suction hole.

1.7 CONDENSATION & DRAINAGE

Condensation is formed in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation. The RP / RPc Series Fan MUST be mounted vertically plumb and level, with the outlet pointing up for proper drainage through the fan. Avoid mounting the fan in any orientation that will allow water to accumulate inside the fan housing. The RP / RPc Series Fans are NOT suitable for underground burial.

For RP / RPc Series Fan piping, the following table provides the minimum recommended pipe diameter and pitch under several system conditions.

| Pipe Diameter | Minimum Rise per Ft of Run* | | | | |
|---------------|-----------------------------|---------|----------|----------|----------|
| | @25 CFM | @50 CFM | @100 CFM | @200 CFM | @300 CFM |
| 6" | - | 3/16 | 1/4 | 3/8 | 3/4 |
| 4" | 1/8 | 1/4 | 3/8 | 2 3/8 | - |
| 3" | 1/4 | 3/8 | 1 1/2 | - | - |

*Typical RP/RPc (except RP380/RP380c) Series Fan operational flow rate is 25 - 90 CFM on 3" and 4" pipe. (For more precision, determine flow rate by measuring Static Pressure, in WC, and correlate pressure to flow in the performance chart in the addendum.)

1.8 SYSTEM MONITOR & LABEL

A System Monitor, such as a manometer (P/N 50017) or audible alarm (P/N 28001-2, 28001-4 or 28421), should be provided and is required to notify the occupants of a fan system malfunction. A System Label (provided with Manometer P/N 50017) with instructions for contacting the installing contractor for service and identifying the necessity for regular radon tests to be conducted by the building occupants must be conspicuously placed in a location where the occupants frequent and can see the label.

1.9 VENTILATION

If used as a ventilation fan, any type of ducting is acceptable; however, flexible nonmetallic ducting is recommended for easy installation and quieter operation. Insulated flexible ducting is highly recommended in cold climates to prevent the warm bathroom air, for example, from forming condensation in the ducting where it is exposed to colder attic air. The outlet of the fan should always be ducted to the outside. Avoid venting the outlet of the fan directly into an attic area. The excess moisture from the bathroom can cause damage to building structure and any items stored in the attic. Multiple venting points may be connected together using a "T" or "Y" fitting. Ideally, the duct should be arranged such that equal duct lengths are used between intake and "T" or "Y" fitting; this will result in equal flow rates in each intake branch. If adjustable intake grilles are used on multi-intake systems, then the opening on each grille should be equal in order to minimize noise and resistance. Straight smooth runs of rigid metal ducting will present the least resistance and maximize system performance. The Equivalent Length of Rigid Metal Ducting resulting in .2"WC pressure loss for each Fan Model is provided in the Specifications section of these instructions. Flexible ducting, if used, must always be as close to being fully extended as possible. Formed rigid metal duct elbows will present the least resistance and maximize system performance; recommended bend radius of elbow is at least 1.5 x duct diameter.

RP / RPc Series fans are not suitable for kitchen range hood remote ventilation applications. For quietest performance, the fan should be mounted farther away from the inlet duct, near the outside vent. A minimum distance of 8 feet is recommended between the fan or T/Y of a multi-intake system and intake grille(s).

Backdraft dampers allow airflow in only one direction, preventing cold/hot draughts from entering the vented area and minimizing possible condensation and icing within the system while the fan is not operating. Backdraft dampers are highly recommended at each intake grille for bathroom ventilation in all cold climate installations. Installation instructions are included with Spruce backdraft dampers.

1.10 ELECTRICAL WIRING

The RP / RPc Series Fans operate on standard 120V, 60Hz AC. All wiring must be performed in accordance with National Fire Protection (NFPA) National Electrical Code, Standard #70, current edition, for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a UL Listed watertight conduit. Ensure that all exterior electrical boxes are outdoor rated and properly sealed to prevent water penetration into the box. A means, such as a weep hole, is recommended to drain the box.

1.11 SPEED CONTROLS

The RP / RPc Series Fans are rated for use with electronic speed controls; however, speed controls are generally not recommended. If used, the recommended speed control is Pass & Seymour Solid State Speed Control.

2.0 INSTALLATION

The RP / RPc Series Fans can be mounted indoors or outdoors. (It is suggested that EPA and radon mitigation standards recommendations be followed in choosing the fan location.) The RP / RPc Series Fans may be mounted directly on the system piping or fastened to a supporting structure by means of an optional mounting bracket.

For the ENERGY STAR Labeled RP140 / RP140c , the ducting from the fan to the outside of the building has a strong effect on noise and fan energy use. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated airflow.

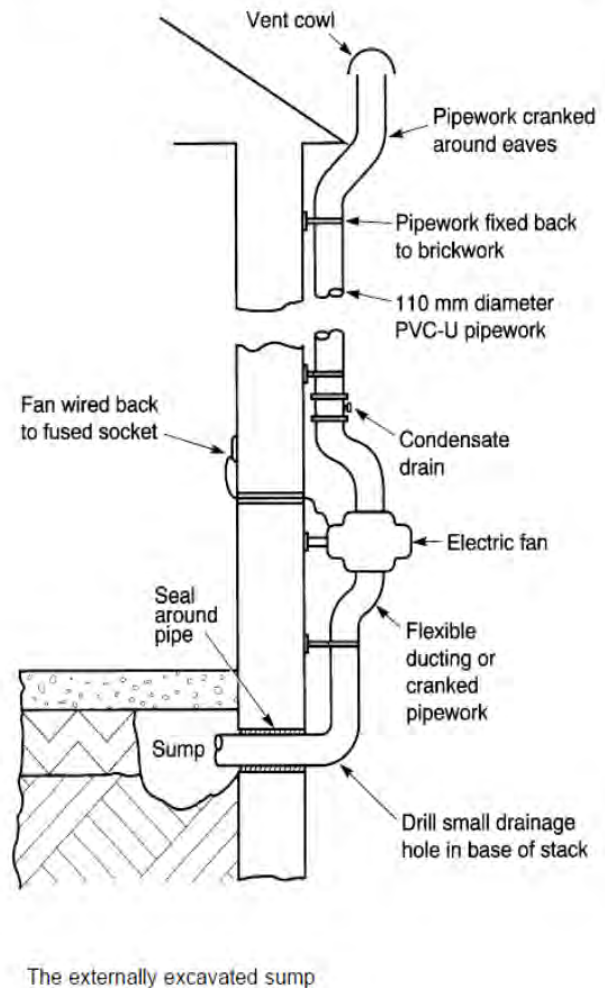
2.1 MOUNTING

Mount the RP / RPc Series Fan vertically with outlet up. Ensure the unit is plumb and level. When mounting directly on the system piping assure that the fan does not contact any building surface to avoid vibration noise.

2.2 MOUNTING BRACKET (optional)

The RP / RPc Series Fan may be optionally secured with the RadonAway mounting bracket (P/N 25007 or 25033 for RP380 only). Foam or rubber grommets may also be used between the bracket and mounting surface for vibration isolation.

Typical Outdoor Installation.



2.3 SYSTEM PIPING

Complete piping run using flexible couplings as a means of disconnect for servicing the unit and for vibration isolation. As the fan is typically outside of the building thermal boundary and is venting to the outside, installation of insulation around the fan is not required.

2.4 ELECTRICAL CONNECTION

Connect wiring with wire nuts provided, observing proper connections (See Section 1.10). Note that the fan is not intended for connection to rigid metal conduit.

| Fan Wire | Connection |
|----------|------------|
| Green | Ground |
| Black | AC Hot |
| White | AC Common |

2.5 VENT MUFLER (optional)

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed at the end of the vent pipe.

2.6 OPERATION CHECKS & ANNUAL SYSTEM MAINTENANCE

_____ **Verify** all connections are tight and **leak-free**.

_____ **Ensure** the RP / RPc Series Fan and all ducting are **secure and vibration-free**.

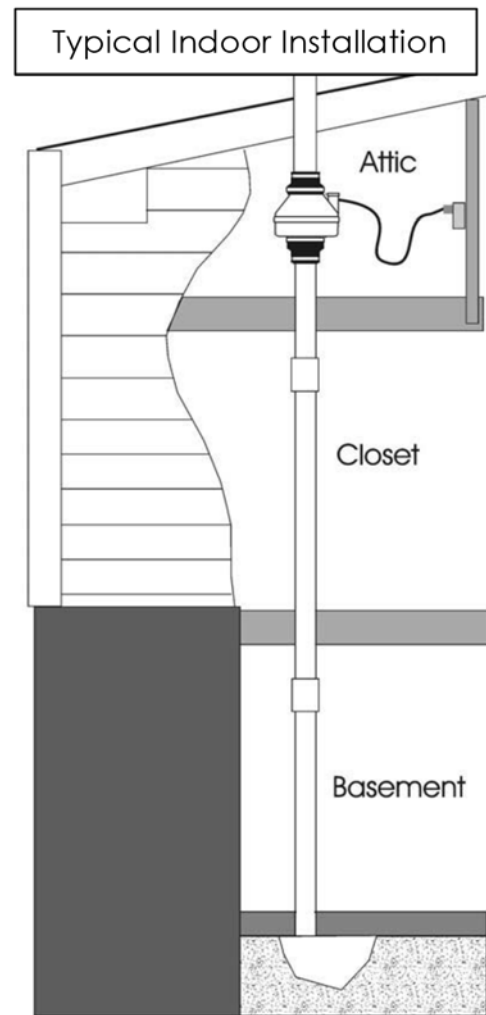
_____ **Verify system vacuum pressure** with manometer. **Ensure** vacuum pressure is within normal operating range and **less than** the maximum recommended operating pressure.

(Based on sea-level operation, at higher altitudes reduce by about 4% per 1000 feet)

(Further reduce Maximum Operating Pressure by 10% for High Temperature environments.)

See *Product Specifications*. If this is exceeded, increase the number of suction points.

_____ **Verify Radon levels** by testing to EPA Protocol and applicable testing standards.



RP / RPc Series Product Specifications

The following chart shows fan performance for the RP / RPc Series Fans:

| Typical CFM Vs. Static Pressure "WC | | | | | | | | | |
|-------------------------------------|-----|------|-----|------|------|-------|------|-------|------|
| | 0" | .25" | .5" | .75" | 1.0" | 1.25" | 1.5" | 1.75" | 2.0" |
| RP140/140c | 135 | 103 | 70 | 14 | - | - | - | - | |
| RP145/145c | 166 | 146 | 126 | 104 | 82 | 61 | 41 | 21 | 3 |
| RP260/260c | 251 | 200 | 157 | 117 | 70 | 26 | - | - | - |
| RP265/265c | 334 | 291 | 247 | 210 | 176 | 142 | 116 | 87 | 52 |
| RP380/380c | 497 | 401 | 353 | 281 | 220 | 176 | 130 | 80 | 38 |

| Model | Power Consumption 120VAC, 60Hz, 1.5 Amp Maximum | Maximum Recommended Operation Pressure* (Sea Level Operation)** |
|------------|--|--|
| RP140/140c | 15 - 21 watts | 0.7" WC |
| RP145/145c | 41 - 72 watts | 1.7" WC |
| RP260/260c | 47-65 watts | 1.3" WC |
| RP265/265c | 91 - 129 watts | 2.2" WC |
| RP380/380c | 95 - 152 watts | 2.0" WC |

**Reduce by 10% for High Temperature Operation **Reduce by 4% per 1000 ft. of altitude.*

| Model | Size | Weight | Inlet/Outlet | L.2 |
|------------|-----------------------|----------|--|-----|
| RP140/140c | 8.5"H x 9.7" Dia. | 5.5 lbs | 4.5"OD (4.0" PVC Sched 40 size compatible) | 25 |
| RP145/145c | 8.5"H x 9.7" Dia. | 5.5 lbs | 4.5" OD | 15 |
| RP260/260c | 8.6"H x 11.75" Dia. | 5.5 lbs | 6.0" OD | 48 |
| RP265/265c | 8.6"H x 11.75" Dia. | 6.5 lbs | 6.0" OD | 30 |
| RP380/380c | 10.53"H x 13.41" Dia. | 11.5 lbs | 8.0" OD | 57 |

L.2 = Estimated Equivalent Length of Rigid Metal Ducting resulting in .2" WC pressure loss for Duct Size listed. Longer Equivalent Lengths can be accommodated at Flows Lower than that at .2" WC pressure loss (see CFM Vs Static Pressure "WC Table).

Recommended Ducting: RP/RPc Series Fans (excluding RP380/380c), 3" or 4" Schedule 20/40 PVC Pipe;
RP380/RP380c, 6" Schedule 20/40 PVC Pipe

PVC Pipe Mounting: If used for Ventilation, use 4", 6" or 8" Rigid or Flexible Ducting.
Mount on the duct pipe or with optional mounting bracket.

Storage Temperature Range: 32-100 degrees F

| Thermal Cutout: | Model | Temperature |
|-----------------|------------|---------------|
| | RP140/140c | 130°C (266°F) |
| | RP145/145c | 150°C (302°F) |
| | RP260/260c | 150°C (302°F) |
| | RP265/265c | 150°C (302°F) |
| | RP380 | 150°C (302°F) |

Continuous Duty

Class F Insulation (RP140/RP140c Class B)

Thermally Protected Manual Reset

3000 RPM

Rated for Indoor or Outdoor Use

LISTED
Electric Fan



Conforms to
UL STD. 507
Certified to
CAN/CSA STD.
C22.2 No.113



IMPORTANT INSTRUCTIONS TO INSTALLER

Inspect the RadonAway® RP/RPc, GP/GPc, XR/XRc, XP/XPc, XR and SF Series Fan for shipping damage within 15 days of receipt. **Notify RadonAway of any damages immediately.** RadonAway is not responsible for damages incurred during shipping. However, for your benefit, RadonAway does insure shipments.

There are no user serviceable parts inside the fan. **Do not attempt to open the housing.** Return unit to factory for service.

Install the RP/RPc, GP/GPc, XP/XPc, and XR SF Series Fan in accordance with all EPA, ANSI/AARST standard practices, and state and local building codes and regulations.

Provide a copy of this instruction or comparable radon system and testing information to the building occupants after completing system installation.

Warranty

RadonAway® warrants that the RP/RPc, GP/GPc (excluding GP500), XP/XPc, XR, SF Series Fan (the "Fan") will be free from defects in materials and workmanship for a period of 12 months from the date of purchase or 18 months from the date of manufacture, whichever is sooner (the "Warranty Term").

RadonAway® will replace any fan which fails due to defects in materials or workmanship during the Warranty Term. This Warranty is contingent on installation of the Fan in accordance with the instructions provided. This Warranty does not apply where any repairs or alterations have been made or attempted by others, or if the unit has been abused or misused. Warranty does not cover damage in shipment unless the damage is due to the negligence of RadonAway®.

The Fan must be returned (at Owner's cost) to the RadonAway® factory. Any Fan returned to the factory will be discarded unless the Owner provides specific instructions along with the Fan when it is returned regardless of whether or not the Fan is actually replaced under this warranty. Proof of purchase must be supplied upon request for service under this Warranty.

5-YEAR EXTENDED WARRANTY WITH PROFESSIONAL INSTALLATION.

RadonAway® will extend the Warranty Term of the fan to 60 months (5 years) from date of purchase or 66 months from date of manufacture, whichever is sooner, provided that the fan is installed by a professional radon mitigation contractor. Proof of purchase and/or proof of professional installation may be required for service under this warranty. No extended warranty is offered outside the Continental United States and Canada beyond the standard 12 months from the date of purchase or 18 months from the date of manufacture, whichever is sooner.

RadonAway® is not responsible for installation, removal or delivery costs associated with this Warranty.

LIMITATION OF WARRANTY

EXCEPT AS STATED ABOVE, THE RP/RPc, GP/GPc (excluding GP500), XP/XPc, XR, SF SERIES FANS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL RADONAWAY BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR RELATING TO, THE FAN OR THE PERFORMANCE THEREOF. RADONAWAY'S AGGREGATE LIABILITY HEREUNDER SHALL NOT IN ANY EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE OF SAID PRODUCT. THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT THE SAME DOES NOT MEET WITH RADONAWAY'S WARRANTY AS PROVIDED ABOVE.

For service under this Warranty, contact RadonAway for a Return Material Authorization (RMA) number and shipping information. No returns can be accepted without an RMA. If factory return is required, the customer assumes all shipping costs, including insurance, to and from factory.

RadonAway® 3 Saber Way
Ward Hill, MA 01835 USA TEL (978) 521-3703
FAX (978) 521-3964
Email to: Returns@RadonAway.com

Record the following information for your records:

Serial Number: _____

Purchase Date: _____

ATTACHMENT 9

PRODUCT DATA SHEETS



Midwest Construction Products GFNW-8 is manufactured from Polypropylene staple fiber. The fibers are randomly oriented and form a cohesive / stabilized needle punched fabric for use in many applications, such as stabilization, filtration, permanent erosion control, etc. This fabric has been UV stabilized and is resistant to commonly encountered chemicals, mildew and insects found in soil.

| Property | Test Procedure | Metric | | English | |
|-------------------------|----------------|--------|--------------------|---------|---------------------|
| | | MARV | | MARV | |
| Grab Tensile Strength | ASTM D-4632 | 912 | N | 205 | lbs |
| Grab Elongation | ASTM D-4632 | 50 | % | 50 | % |
| Trapezoid Tear | ASTM D-4533 | 356 | N | 80 | lbs |
| CBR Puncture | ASTM D-6241 | 2380 | N | 535 | lbs |
| UV Stability (500 hrs). | ASTM D-4355 | 70 | % | 70 | % |
| Permittivity | ASTM D-4491 | 1.5 | sec ⁻¹ | 1.5 | sec ⁻¹ |
| Water Flow Rate | ASTM D-4491 | 4482 | lpm/m ² | 110 | gpm/ft ² |
| A.O.S. | ASTM D-4751 | 0.150 | mm | 100 | U.S. Sieve |

| Property | Test Procedure | Metric | | English | |
|-----------|----------------|---------|------------------|---------|--------------------|
| | | Typical | | Typical | |
| Weight | ASTM D-5261 | 271 | g/m ² | 8.0 | oz/yd ² |
| Thickness | ASTM D-5199 | 2.286 | mm | 80 | mils |

| Packaging | Metric | | | English | | |
|------------|--------------------|-------|--------|---------------------|-------|--------|
| | Area | Width | Length | Area | Width | Length |
| Roll Sizes | 418 m ² | 3.81m | 109.7m | 500 yd ² | 12.5' | 360' |
| | 418 m ² | 4.57m | 91.4m | 500 yd ² | 15' | 300' |

NOTES:

- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
- Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

This information is provided for reference purposes only and is not intended as a warranty or guarantee. Midwest Construction Products assumes no liability in connection with the use of this information.

Call for more information: (800) 532-2381
www.gabionbaskets.net | www.midwestconstruct.com





The Liner Company

SOLUTIONS

ENVIRONMENTAL PROTECTION, INC.

1567 W. South Airport Rd.
Traverse City, Michigan
49686

Phone | 800-OK-LINER
Fax | 231-943-2270

www.geomembrane.com

TYPICAL APPLICATIONS:

Landfill Liners

Landfill Closures

Reservoirs

Sewage Lagoons

Soil Remediation

Industrial Waste Ponds

40 mil PVC Geomembrane Specifications

PVC liners fabricated by EPI are a single-ply construction with Polyvinyl Chloride as the principle polymer. Only first quality virgin resins are used and all materials meet or exceed the requirements of ASTM D7176 Standard Specification for PVC geomembranes used in buried applications.

EPI utilizes statistical process control (SPC) to ensure the integrity of each panel produced. Samples from actual factory seams are removed during the welding process for a rigorous, proven testing procedure that assures you of the highest quality factory-fabricated PVC geomembranes available.

PVC Liners are fabricated by EPI in panels, accordion-folded in both directions, and packaged for shipment to your site for quick, easy installation to save you time and money.

| | | |
|---|--|-------|
| Thickness \pm 5% | ASTM D-5199 | .040" |
| Specific Gravity (min) | ASTM D-792 | 1.20 |
| Tensile (lb/in-width, min) | ASTM D-882 | 97 |
| Elongation at Break (% min) | ASTM D-882 | 430 |
| Modulus (lb/in-width, min) | ASTM D-882 | 40 |
| Tear Resistance (lb/in, min) | ASTM D-1004 | 10 |
| Resistance to Soil Burial (% change, max) | ASTM G-160 | |
| 1. Breaking Factor | | 5 |
| 2. Elongation At Break | | 20 |
| 3. Modulus at 100% Elongation | | 20 |
| Impact Cold Crack ($^{\circ}$ C) | ASTM D-1790 | -29 |
| Dimensional Stability (% change, max) | ASTM D-1204 (212 $^{\circ}$ F/15 min.) | 3 |
| Water Extraction (% max) | ASTM D-1239 | 0.20 |
| Volatile Loss (% max) | ASTM D-1203(A) | 0.50 |
| Hydrostatic Resistance (psi, min) | ASTM D-751(A) | 120 |
| Plasticizer Min Ave Molec Wt | ASTM 2124 | 400 |
| Factory Fabricated Seams: | | |
| Peel Strength (lbs/in, min) | ASTM D-7408 | 15 |
| Shear Strength (lbs/in, min) | ASTM D-7408 | 77.6 |

These data are based on tests believed to be reliable. However, these are laboratory tests that may not simulate actual use conditions. They are provided for your informational purposes only. No warranty, express or implied, including any other further warranty of fitness for a particular purpose or merchantability, is made by this promotional literature.

Preserving water resources for future generations

HH-66 Vinyl Cement

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 01/05/2015

Date of issue: 01/05/2015

Supersedes Date: 05/08/2013

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: HH-66 Vinyl Cement

Synonyms: Thermoplastic Polyurethane Adhesive Blend/Compound

1.2. Intended Use of the Product: No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

Company

RH Products Co., Inc.

308 Old High Street

Acton, MA USA 01720

Information Telephone Number: 1-978-897-8000

1.4. Emergency Telephone Number

Emergency Number : 1-800-535-5053 INFOTRAC; 1-352-323-3500 INFOTRAC International

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Flam. Liq. 2 H225

Eye Irrit. 2A H319

Repr. 2 H361

STOT SE 3 H336

STOT RE 2 H373

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H225 - Highly flammable liquid and vapor.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe vapors, mist, spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, protective clothing, protective gloves.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a poison center if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.

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P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂) to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P235+P405 - Keep cool. Store locked up.
P501 - Dispose of contents/container according to local, regional, national, and international regulations.

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product Identifier | % | Classification (GHS-US) |
|-----------------------|--------------------|------|---|
| Methyl ethyl ketone | (CAS No) 78-93-3 | 44 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Acetone | (CAS No) 67-64-1 | 34 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Proprietary Component | Proprietary* | 14.1 | Not classified |
| Toluene | (CAS No) 108-88-3 | 7.9 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412 |

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Using proper respiratory protection, immediately move the exposed person to fresh air. Assure fresh air breathing. Call a physician if symptoms occur.

First-aid Measures After Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes serious eye irritation. Vapors may cause drowsiness and dizziness.

Symptoms/Injuries After Inhalation: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.

Symptoms/Injuries After Skin Contact: Repeated exposure may cause skin dryness or cracking.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure. May cause damage to central nervous system, liver, and kidneys. Suspected of damaging fertility or the unborn child.

HH-66 Vinyl Cement

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4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Highly flammable liquid and vapor.

Explosion Hazard: May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Reacts violently with oxidants causing fire and explosion hazard.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not get water inside containers. Do not apply water stream directly at source of leak. Fight fire from safe distance and protected location.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Eliminate ignition sources. Stop leak if safe to do so.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Use only non-sparking tools.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s) No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

| Toluene (108-88-3) | | |
|--------------------|---------------------------------------|-----------------------|
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 375 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 560 mg/m ³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 150 ppm |
| USA IDLH | US IDLH (ppm) | 500 ppm |

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| | | |
|--------------------------------------|---------------------------------------|------------------------|
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 300 ppm |
| Acetone (67-64-1) | | |
| USA ACGIH | ACGIH TWA (ppm) | 500 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 750 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 590 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 250 ppm |
| USA IDLH | US IDLH (ppm) | 2500 ppm (10% LEL) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 2400 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| Methyl ethyl ketone (78-93-3) | | |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 300 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 590 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 885 mg/m ³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 300 ppm |
| USA IDLH | US IDLH (ppm) | 3000 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 590 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when flammable gases/vapors may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated above. All electrical equipment should comply with the National Electric Code. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Full protective flameproof clothing. Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: Wear fire/flame resistant/retardant clothing.

Hand Protection

: Wear chemically resistant protective gloves.

Eye Protection

: Chemical goggles or safety glasses.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

| | |
|---------------------------|--|
| Physical State | : Liquid |
| Appearance | : Clear |
| Odor | : Strong Aromatic Odor/sharp mint like fragrance |
| Odor Threshold | : No data available |
| pH | : No data available |
| Evaporation Rate | : No data available |
| Melting Point | : No data available |
| Freezing Point | : No data available |
| Boiling Point | : > 35 °C (95.00 °F) |
| Flash Point | : -14 °C ASTM D-56 (6.80 °F) |
| Auto-ignition Temperature | : No data available |
| Decomposition Temperature | : No data available |
| Flammability (solid, gas) | : No data available |

HH-66 Vinyl Cement

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|--|--------------------------|
| Vapor Pressure | : No data available |
| Relative Vapor Density at 20 °C | : > 1 (heavier than air) |
| Relative Density | : 0.88 (water = 1) |
| Solubility | : Insoluble in water. |
| Partition Coefficient: N-octanol/water | : No data available |
| Viscosity | : No data available |
| Lower Flammable Limit | : 1 % |
| Upper Flammable Limit | : 12 % |

9.2. Other Information

VOC content : 51.9 % (3.59 lbs/gal or 430 g/l)

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Reacts violently with oxidants causing fire and explosion hazard.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources.
- 10.5. Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

| | |
|--------------------------------------|--|
| Toluene (108-88-3) | |
| LD50 Oral Rat | 5580 mg/kg |
| LD50 Dermal Rabbit | 8390 mg/kg |
| ATE (Vapors) | 25.70 mg/l/4h |
| Acetone (67-64-1) | |
| LD50 Oral Rat | 5800 mg/kg |
| LD50 Dermal Rabbit | 15688 mg/kg |
| LC50 Inhalation Rat | 44 g/m ³ |
| Methyl ethyl ketone (78-93-3) | |
| LD50 Oral Rat | 2054 mg/kg |
| LD50 Dermal Rat | > 10 ml/kg |
| LC50 Inhalation Rat | 23500 mg/m ³ (Exposure time: 8 h) |

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

| | |
|---------------------------|---|
| Toluene (108-88-3) | |
| IARC group | 3 |

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.

Symptoms/Injuries After Skin Contact: Repeated exposure may cause skin dryness or cracking.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure. May cause damage to central nervous system, liver, and kidneys. Suspected of damaging fertility or the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

| | |
|---------------------------|--|
| Toluene (108-88-3) | |
| LC50 Fish 1 | 15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |

HH-66 Vinyl Cement

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|--------------------------------------|---|
| LC 50 Fish 2 | 12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| NOEC chronic crustacea | 0.74 mg/l (Ceriodaphnia dubia) |
| Acetone (67-64-1) | |
| LC50 Fish 1 | 4144.846 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia 1 | 1679.66 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC 50 Fish 2 | 6210 (6210 - 8120) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 12600 (12600 - 12700) mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| Methyl ethyl ketone (78-93-3) | |
| LC50 Fish 1 | 3130 (3130 - 3320) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 520 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Daphnia 2 | 5091 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

12.2. Persistence and Degradability

| | |
|-------------------------------|---------------------------------|
| Acetone (67-64-1) | |
| Persistence and Degradability | Readily biodegradable in water. |

12.3. Bioaccumulative Potential

| | |
|--------------------------------------|-------|
| Toluene (108-88-3) | |
| Log Pow | 2.65 |
| Acetone (67-64-1) | |
| BCF fish 1 | 0.69 |
| Log Kow | -0.24 |
| Methyl ethyl ketone (78-93-3) | |
| Log Pow | 0.29 |

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable. RCRA Waste Number: D001.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT

Proper Shipping Name : ADHESIVES containing a flammable liquid
Hazard Class : 3
Identification Number : UN1133
Label Codes : 3
Packing Group : II
ERG Number : 128



14.2. In Accordance with IMDG

Proper Shipping Name : ADHESIVES
Hazard Class : 3
Identification Number : UN1133
Packing Group : II
Label Codes : 3
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
MFAG Number : 127



14.3. In Accordance with IATA

Proper Shipping Name : ADHESIVES
Packing Group : II
Identification Number : UN1133
Hazard Class : 3
Label Codes : 3



HH-66 Vinyl Cement

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ERG Code (IATA) : 3L

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

| | |
|---|--|
| HH-66 Vinyl Cement | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
| Toluene (108-88-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313 | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) : | 1000 lb |
| SARA Section 313 - Emission Reporting | 1.0 % |
| Acetone (67-64-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| Methyl ethyl ketone (78-93-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Fire hazard |
| Proprietary Component | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

15.2 US State Regulations

| | |
|--|--|
| Toluene (108-88-3) | |
| U.S. - California - Proposition 65 - Developmental Toxicity | WARNING: This product contains chemicals known to the State of California to cause birth defects. |
| U.S. - California - Proposition 65 - Reproductive Toxicity – Female | WARNING: This product contains chemicals known to the State of California to cause (Female) reproductive harm. |
| Toluene (108-88-3) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Acetone (67-64-1) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Methyl ethyl ketone (78-93-3) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List | |

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 01/05/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|-------------------|--|
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Repr. 2 | Reproductive toxicity Category 2 |

HH-66 Vinyl Cement

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|---------------|---|
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |
| H361 | Suspected of damaging fertility or the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H401 | Toxic to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

The information above is believed to be accurate and represents the information currently available to us. We however, make no warranty of merchantability or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from its use.

SDS US (GHS HazCom)

PRODUCT DATA

NO. 723-A

MasterFormat: 07 26 16

W. R. MEADOWS®

SEALTIGHT®

AUGUST 2016
(Supersedes July 2014)

PERMINATOR® TAPE

Overlap Seam Tape

DESCRIPTION

PERMINATOR TAPE is a self-adhesive tape, used in conjunction with the application of PERMINATOR underslab vapor barrier.

USES

PERMINATOR TAPE is for use in sealing vapor barrier seams and attachment to footings, protrusions, etc.

FEATURES/BENEFITS

- Backing stabilized to resist the effects of UV exposure.
- Product is very conformable.
- Maintains a watertight seal in all weather conditions.

PACKAGING

PERMINATOR TAPE is offered in 4" (10 cm) widths and roll lengths of 180' (55 m), 12 rolls/carton.

COVERAGE

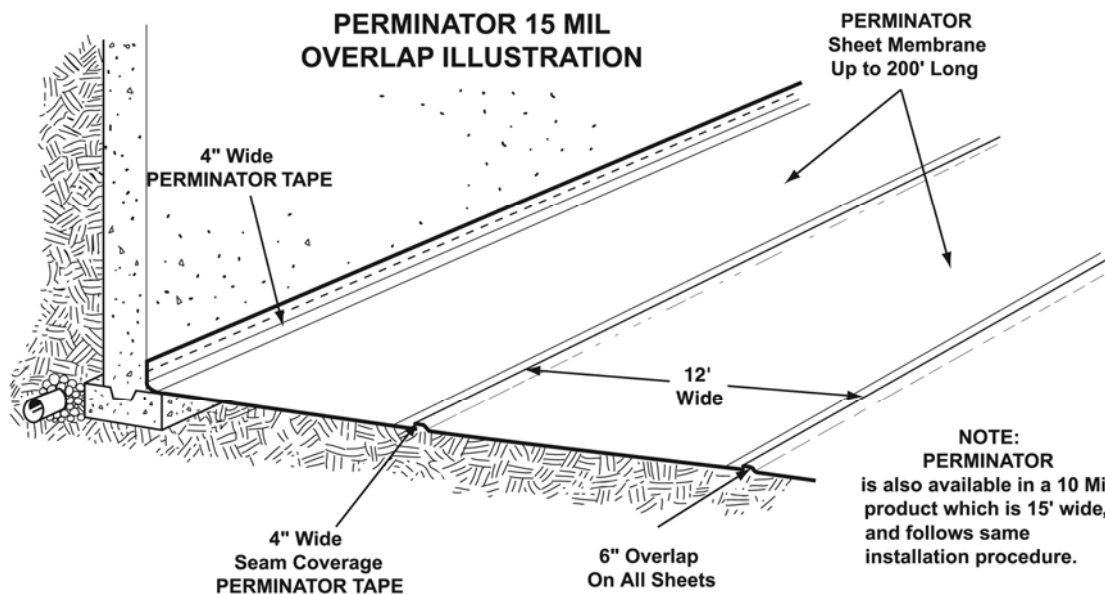
One box of tape will adhere approximately 10 rolls of PERMINATOR.

TECHINAL DATA

Thickness: 8 Mills (0.2 mm)

APPLICATION

Surface Preparation ... The PERMINATOR TAPE area of adhesion should be free from dust, dirt, and moisture, to allow maximum adhesion of the pressure-sensitive tape.



CONTINUED ON REVERSE SIDE...

W. R. MEADOWS, INC.

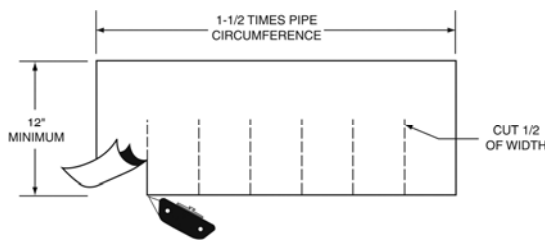
P.O. Box 338 • HAMPSHIRE, IL 60140-0338
Phone: 847/214-2100 • Fax: 847/683-4544
1-800-342-5976
www.wrmeadows.com

HAMPSHIRE, IL / CARTERSVILLE, GA / YORK, PA
FORT WORTH, TX / BENICIA, CA / POMONA, CA
GOODYEAR, AZ / MILTON, ON / ST. ALBERT, AB

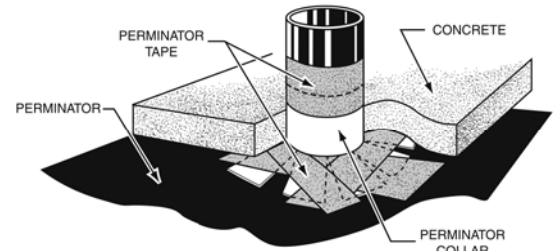
Sealing Seams/Attaching to Footing ... All joints/seams in the vapor barrier application, both lateral and butt, should be overlapped 6" (152.4 mm) and taped using PERMINATOR TAPE. The most efficient installation method includes placing PERMINATOR on top of the footing and against the vertical wall. This will sandwich PERMINATOR between the footing, vertical wall, and poured concrete floor (see illustration below). This will help protect the concrete slab from external moisture sources once the slab has been placed.

Sealing Protrusions ... Cut a slit around pipes, ductwork, rebar and wire penetrations to place the initial layer of the vapor barrier. To further protect the concrete slab from external moisture sources, use a piece of vapor barrier and place a collar around these as well.

1. Cut a piece of PERMINATOR a minimum of 12" (304.8 mm). The length should be 1 1/2 times the pipe circumference. With a roofer's knife or scissors, cut "fingers" half the width of the film. (See figure 1.)



2. Wrap around and tape the collar onto the pipe and completely tape fingers to the bottom layer of PERMINATOR, as shown in figure 2.



In the event that PERMINATOR is damaged during or after installation, repairs must be made. Cut a piece of the vapor barrier large enough to cover any damage by a minimum overlap of 6" (152.4 mm) in all directions. Clean all adhesion areas of dust, dirt and moisture. Tape down all edges using PERMINATOR TAPE.

LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan - During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials
- SS Credit 3: Brownfield Redevelopment

For most current data sheet, further LEED information, and SDS, visit www.wrmeadows.com.



LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

ATTACHMENT 10

AS-BUILT SITE-WIDE CAP PLAN

ALTA/NSPS LAND TITLE SURVEY

PART OF GOVERNMENT LOTS 3 & 4
OWNER: SCRIPPS MEDIA INC

LOT 1
C.S.M. NO. 8229
OWNER: MILWAUKEE AREA TECHNICAL COLLEGE DISTRICT

CLIENT

Palestra Real Estate Partners, Inc.

SITE ADDRESS

733 East Capitol Drive, City of Milwaukee, Milwaukee County, Wisconsin.

LEGAL DESCRIPTION

Lot 1 of Certified Survey Map No. 8754, recorded on December 2, 2015, in Reel 8773 of Certified Survey Maps, as Document No. 10521036, being a redivision of Lots 1-4, Block 6, Village of Humboldt, part of Parcel 1 in Certified Survey Map No. 3681 and all of Parcel 2 in Certified Survey Map No. 3681, all of Parcel 1 in Certified Survey Map No. 4305, vacated East Melvina Street, vacated North Pierce Street, vacated alleys, part of Government Lot 5 and unplatted lands, all being part of the Northwest 1/4 and Northeast 1/4 of the Northwest 1/4 of Section 9, Township 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin.

TITLE COMMITMENT

This survey was prepared based on Chicago Title Insurance Company Commitment No. CO-5111, effective date of July 6, 2016 which lists the following easements and/or restrictions from schedule B-II:

- 1, 5, 6, 7 & 8 visible evidence shown, if any.
- 2, 3, 5, 9, 14, 16, 17, 18, 19, 20, 21, & 22 not survey related.
10. Easement(s) for the purpose(s) and rights incidental thereto, as granted in a document, granted to Wisconsin Electric Power Company, for utility purposes, recorded on April 19, 1948, as Document No. 2783151. **Does not affect site, not shown.**
11. Easement(s) for the purpose(s) and rights incidental thereto, as granted in a document, granted to Wisconsin Electric Power Company, for utility purposes, recorded on April 19, 1984, as Document No. 5709808. **Does not affect site, not shown.**
12. Covenants, Conditions and Restrictions as set forth on Warranty Deed, recorded on July 1, 1986 as Document No. 5931905. **Affects entire property, blanket type, shown on Vicinity Map.**
13. Subordination and Consent to Easement, recorded on March 12, 1998 as Document No. 7501582 and on March 12, 1998 as Document No. 7501583. **Affects property, blanket type, shown on Vicinity Map.**
15. Recitals as shown on Certified Survey Map No. 8754, recorded on December 2, 2015, as Document No. 10521036, which among other things recites Utilities Restriction. Reference is hereby made to said document for full particulars. **Affects property, Utility Restriction Note: "That all utility lines to provide electric power and telephone services and cable television or communications systems lines or cables to all lots in the Certified Survey Map shall be installed underground in easements provided therefore, where feasible".**

TABLE "A" ITEMS

6(A). A zoning report has been provided, prepared by:

Bock & Clark Zoning
3000 S. Berry Rd., Ste. 150
Norman, OK 73072
800-787-8390

Project Number: 7201600704, Report Date: August 23, 2016

Municipal Code: Sec. 295-605-2
Site is zoned: LB2 (Local Business)
Front setback, minimum: none
Front setback, maximum: average
Side street setback, minimum: none
Side street setback, maximum: 5 feet
Rear street setback, minimum: none
Rear street setback, maximum: none
Side setback, minimum: none
Side setback, maximum: none
Rear setback, minimum: none
Rear setback, maximum: none
Height, maximum: 60 feet
Height, minimum: 18 feet

11. Utility lines are shown from visible surface evidence, municipal plans and from plans and markings provided by Diggers Hotline, the One-call Utility Marking System (Wisconsin Statute 182.0175), Ticket Number 20180200941. This survey represents the underground utilities that participated with the request and were marked on the time of the survey. Additional utilities may exist, but were non-responsive to the request.

16. There is visible evidence of earth moving, building construction or building additions within recent months.

17. There are no changes in street right of way lines either completed or proposed, and available from the controlling jurisdiction. Observable evidence of recent street or sidewalk construction or repairs if any, is shown.

18. There is no evidence on site of delineated wetlands areas.

19. There were no offsite easements or servitudes benefiting the survey property disclosed in furnished Title Commitment at the time of survey.

TO: Milwaukee Capitol, LLC
TRISTATE CAPITAL BANK
Chicago Title Insurance Company
Wisconsin Housing and Economic Development Authority, its successors and assigns (WHEDA)

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 7(a), 7(b1), 7(b2), 7(c), 8, 9, 11, 13, 14, 16, 17, 18, 19 and 20 of Table A thereof and Items 1-11 & 14-20 of WHEDA's Exhibit B Land Title Survey requirements. The field work was completed on January 10, 2018.

Date of Map: January 12, 2018

DONALD C. CHAPUT
S-1316
MILWAUKEE
WI
Professional Land Surveyor
Registration Number S-1316

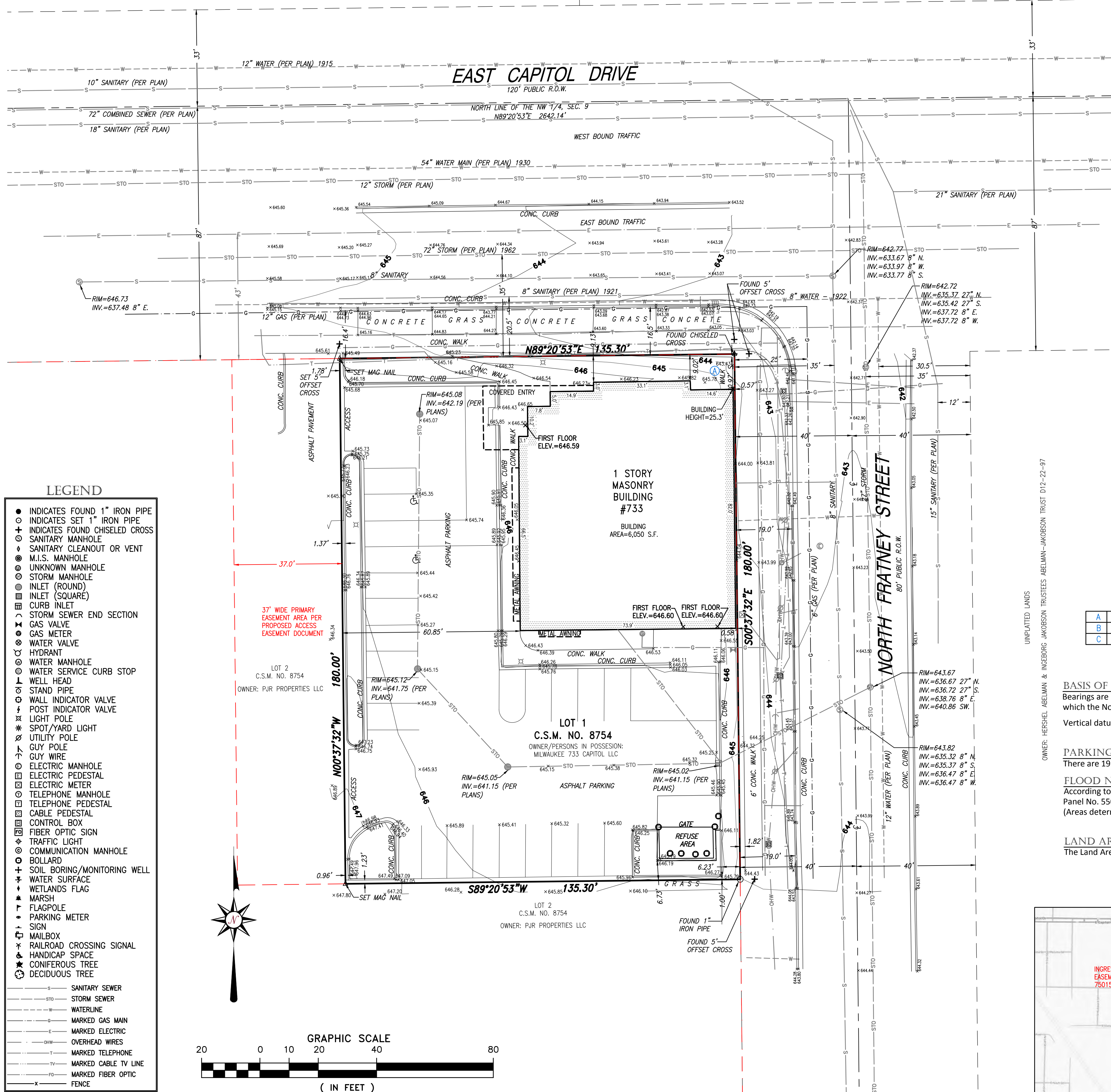
CHAPUT
LAND SURVEYS

234 W. Florida Street
Milwaukee, WI 53204

414-224-8068
www.chaputlandsurveys.com

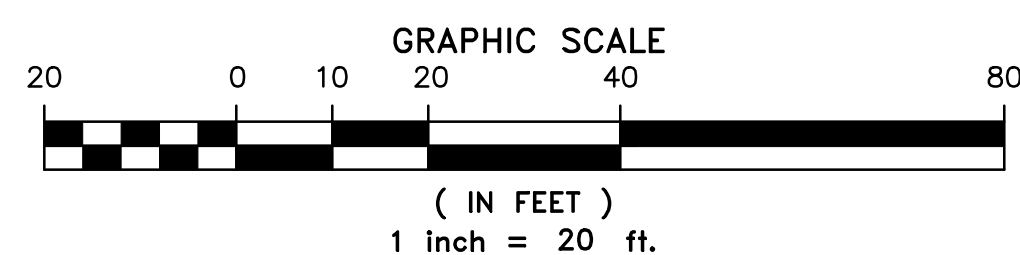
| Date | Revision description |
|------|----------------------|
| | |
| | |
| | |

This document is an instrument of professional service, and may be protected by the surveyor's work product doctrine or surveyor's client privilege. The information shown hereon is intended solely for the use of the client and client directed third parties.
Drawing No. 1942.02-dmb



LEGEND

- INDICATES FOUND 1" IRON PIPE
- INDICATES SET 1" IRON PIPE
- + INDICATES FOUND CHISELED CROSS
- ⊙ SANITARY MANHOLE
- ⊕ SANITARY CLEANOUT OR VENT
- ⊙ M.I.S. MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ STORM MANHOLE
- ⊙ INLET (ROUND)
- ⊙ INLET (SQUARE)
- ⊙ CURB INLET
- ⊙ STORM SEWER END SECTION
- ⊙ GAS VALVE
- ⊙ WATER VALVE
- ⊙ HYDRANT
- ⊙ WATER MANHOLE
- ⊙ WATER SERVICE CURB STOP
- ⊙ WELL HEAD
- ⊙ STAND PIPE
- ⊙ WALL INDICATOR VALVE
- ⊙ POST INDICATOR VALVE
- ⊙ LIGHT POLE
- ⊙ SPOT/YARD LIGHT
- ⊙ UTILITY POLE
- ⊙ GUY POLE
- ⊙ GUY WIRE
- ⊙ ELECTRIC MANHOLE
- ⊙ ELECTRIC PEDESTAL
- ⊙ ELECTRIC METER
- ⊙ TELEPHONE MANHOLE
- ⊙ TELEPHONE PEDESTAL
- ⊙ CABLE PEDESTAL
- ⊙ CONTROL BOX
- ⊙ FIBER OPTIC SIGN
- ⊙ TRAFFIC LIGHT
- ⊙ COMMUNICATION MANHOLE
- ⊙ BOLLARD
- ⊙ SOIL BORING/MONITORING WELL
- ⊙ WATER SURFACE
- ⊙ WETLANDS FLAG
- ⊙ MARSH
- ⊙ FLAGPOLE
- ⊙ PARKING METER
- ⊙ SIGN
- ⊙ MAILBOX
- ⊙ RAILROAD CROSSING SIGNAL
- ⊙ HANDICAP SPACE
- ⊙ CONIFEROUS TREE
- ⊙ DECIDUOUS TREE
- SANITARY SEWER
- STORM SEWER
- WATERLINE
- MARKED GAS MAIN
- MARKED ELECTRIC
- OVERHEAD WIRES
- MARKED TELEPHONE
- MARKED CABLE TV LINE
- MARKED FIBER OPTIC
- FENCE



ENCROACHMENT TABLE

| A | B | C |
|---|---|---|
| | | |
| | | |
| | | |

BASIS OF BEARINGS

Bearings are referenced to the Wisconsin State Plane Coordinate System (South Zone), in which the North line of the NW 1/4 of Section 9 bears N89°20'53" E.

Vertical datum is based on National Geodetic Vertical Datum of 1929.

PARKING SPACES

There are 19 regular parking spaces and 2 handicap spaces marked on this site.

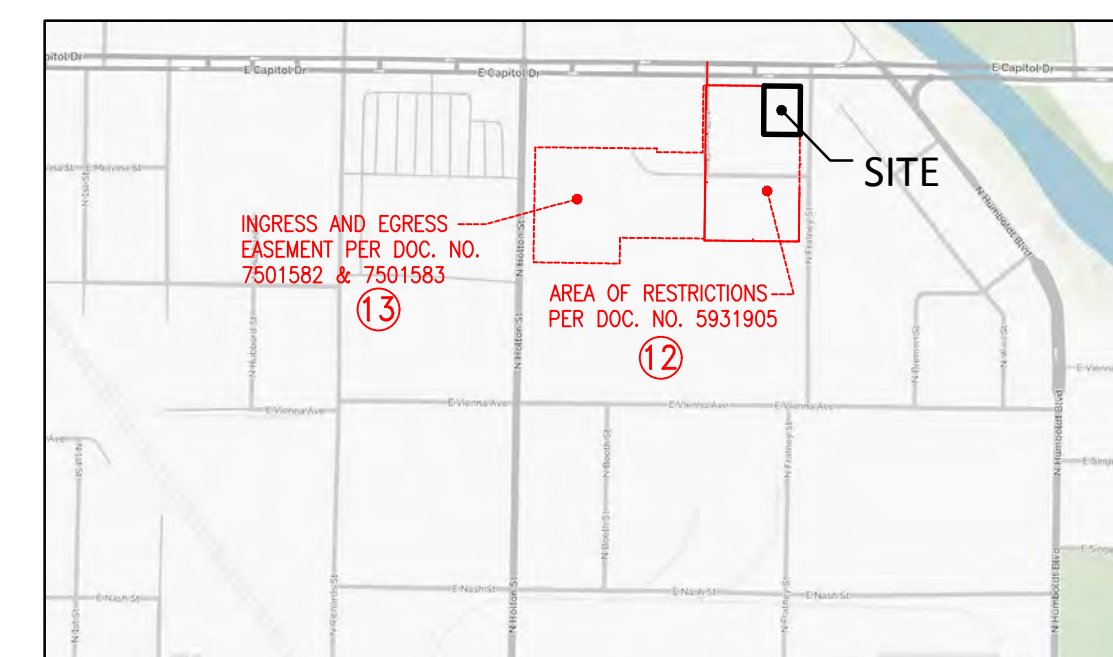
FLOOD NOTE

According to the flood insurance rate map of the County of Milwaukee, Community Panel No. 55079C0084E, effective date of September 26, 2008, this site falls in Zone X (Areas determined to be outside the 0.2% annual chance floodplain).

LAND AREA

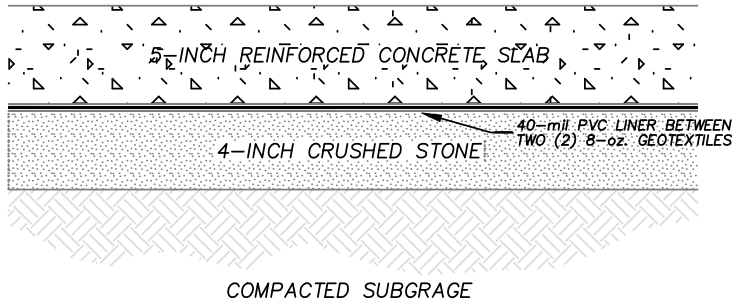
The Land Area of the subject property is 24,354 square feet or 0.5591 acres.

VICINITY MAP

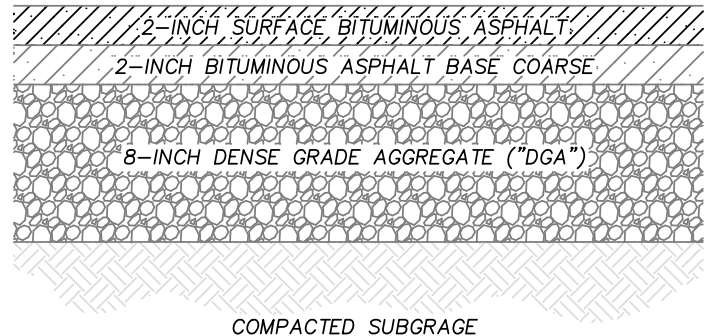


ATTACHMENT 11

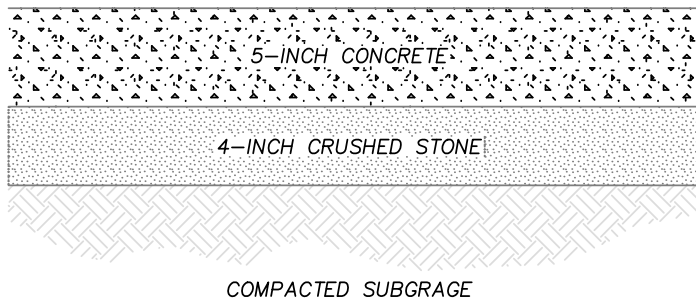
**ENGINEERING SPECIFICATIONS
FOR THE SITE-WIDE CAP**



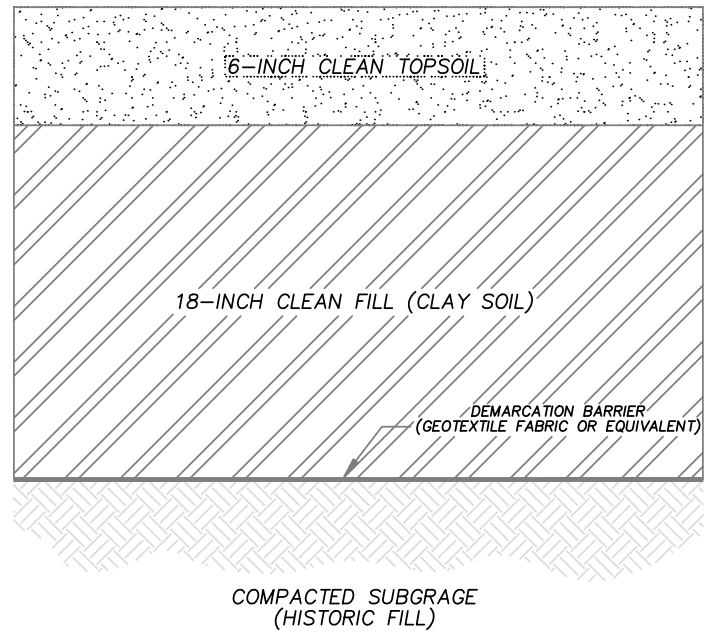
BUILDING SLAB AREA CAP
WITH VAPOR BARRIER
 NOT TO SCALE



ASPHALT PAVEMENT AREA CAP
 NOT TO SCALE



CONCRETE WALKWAYS
 NOT TO SCALE



LANDSCAPE AREAS
 NOT TO SCALE

2016.110\CAP CROSS SECTIONS



ENVIRONMENTAL CONSULTING, INC.
 2002 RENAISSANCE BOULEVARD
 SUITE 110
 KING OF PRUSSIA, PENNSYLVANIA 19406

JOB No.
 2016.110
 DATE:
 12/18/17

DRAWN BY:
 ADH
 CHECKED BY:
 RSW

SCALE:
 NONE
 TITLE:

ATTACHMENT No.: 11

733 EAST CAPITOL DRIVE
 (FORMERLY 709 EAST CAPITOL DRIVE)
 CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN 53212

ENGINEERING
 SPECIFICATIONS



ENVIRONMENTAL CONSULTING, INC.
2002 RENAISSANCE BOULEVARD
SUITE 110
KING OF PRUSSIA, PENNSYLVANIA 19406

Telephone: (610) 279-7070

Facsimile: (610) 279-4334

OPERATION, MAINTENANCE AND MONITORING PLAN

733 EAST CAPITOL DRIVE
(FORMERLY 709 EAST CAPITAL DRIVE)
CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN 53212
BRRTS #02-41-2000169, FID #241975140

Prepared by:

Environmental Consulting, Inc.
2002 Renaissance Boulevard
Suite 110
King of Prussia, Pennsylvania 19406

Prepared for:

Adam S. McIlheran, Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
Southeast Region, Milwaukee Service Center
2300 North Martin Luther King Drive
Milwaukee, Wisconsin 53212

A handwritten signature in black ink that reads 'Samuel J. Kucia'. The signature is written in a cursive style with a horizontal line underneath it.

Samuel J Kucia
Vice President

A handwritten signature in black ink that reads 'Richard S. Werner, P.G.'. The signature is written in a cursive style with a horizontal line underneath it.

Richard S. Werner, P.G.
President

January 23, 2018

Project No. 2016.110

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1.0 INTRODUCTION

Environmental Consulting, Inc. prepared this Operations, Maintenance and Monitoring (“OMM”) Plan to manage the vapor collection and vapor barrier system installed at the 733 East Capitol Drive (formerly 709 East Capitol Drive) property located in the City of Milwaukee, Milwaukee County, Wisconsin, referenced hereinafter as the subject property. This OMM Plan was prepared in accordance with the Wisconsin Department of Natural Resources (“DNR”) Remedial and Interim Action Design, Implementation, Operation, Maintenance and Monitoring Requirements (i.e., N.R. 724). The OMM Plan establishes a written protocol to maintain and verify the proper operation of the sub-slab vapor collection and vapor barrier system indicating continued system effectiveness in the mitigation of the vapor intrusion pathway on the subject property.

The subject property is located at the southeast corner of the intersection of East Capitol Drive and North Fratney Street with a Parcel ID of 274-9969-113-6. The property was part of an industrial facility known as Adelman Laundry and Novelty Dye Works dating back to the early 1900s. The sections of the former industrial facility previously located on the subject property were identified as office, dry cleaning, wash house, dry room and work room. A Burger King outparcel restaurant was located on the subject property from the mid-1980s until circa 2006. The subject property consists of a paved asphalt parking lot associated with a multi-tenant commercial shopping center anchored by a Piggly Wiggly supermarket from circa 2006 to 2017. The subject property was recently redeveloped with one (1) one-story commercial building to be used as a medical outpatient dialysis center.

A sub-slab vapor collection and vapor barrier system was installed on the subject property to prevent vapor intrusion into the recently constructed building from soil contaminated by petroleum compounds and chlorinated solvent compounds at depths ranging from 2 feet below ground surface (“bgs”) to 15 feet bgs and groundwater contaminated by petroleum compounds and chlorinated solvent compounds located at depths ranging from approximately 4 feet bgs to 9 feet bgs. The vapor mitigation system was installed to operate as a passive system or an active system.

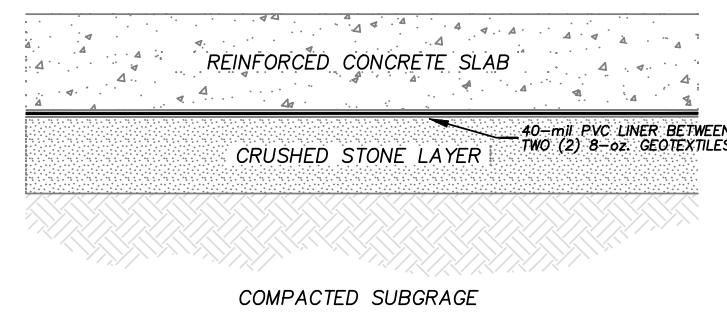
2.0 SUB-SLAB VAPOR COLLECTION AND VAPOR BARRIER SYSTEM OVERVIEW

The sub-slab vapor mitigation system was installed in the building on the subject property from September 11, 2017 to September 13, 2017. The sub-slab vapor mitigation system consists of a vapor collection system and a vapor barrier system. The vapor barrier system consists of a heat and solvent welded 40-mil PVC liner material located between two (2) layers of 8-ounce non-woven geotextiles per the manufacture's specifications. The 40-mil PVC liner system was fastened to the perimeter concrete foundation walls using Perminator vapor barrier adhesive tape. Pipe penetrations through the 40-mil PVC liner were sealed using a combination of 40-mil PVC pipe boots and Perminator vapor barrier tape. Approximately 117 pipe penetrations varying in diameter from 1-inch copper pipes to 4-inch diameter PVC pipes were sealed as part of the vapor barrier system installation activities. Figure 2-1 shows the typical construction schematic for the 40-mil PVC liner system and the typical vapor barrier system construction details.

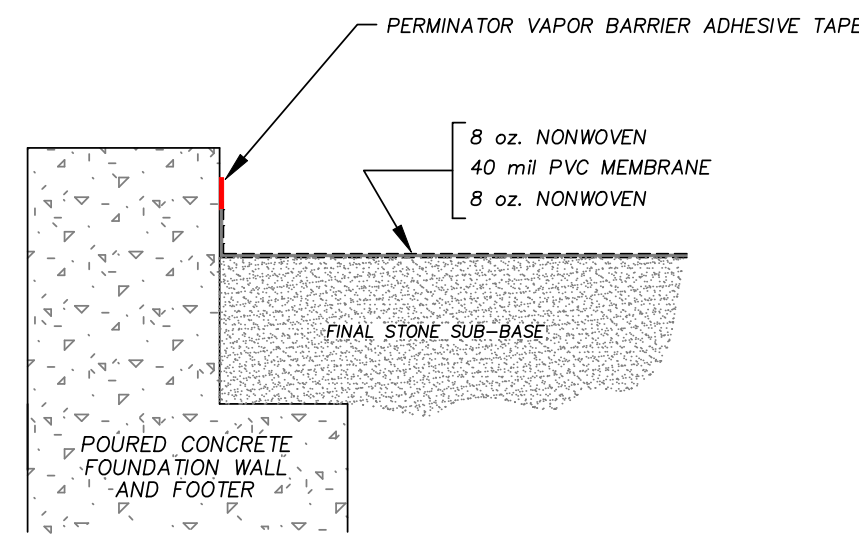
The vapor collection system consists of four (4) manifolded branches of low-profile (i.e., 1-inch high by 12-inch wide) vapor collection conduit called J-Drain manufactured by US Fabrics. The vapor collection system was designed to provide adequate coverage of the sub-slab building area based on the size and layout of the building and based on typical influence (i.e., capture) zones as provided by manufacturers of this type of vapor collection media. The four (4) branches of vapor collection media run south to north through the building and are manifolded together at the northern end of the building. The manifolded low-profile vapor collection media connects to a single 3-inch diameter Schedule 40 PVC header pipe. The PVC header pipe then connects to a 4-inch diameter Schedule 40 PVC riser pipe located at the north-central portion of the building. The riser vent pipe runs vertically along the interior of the northern wall of the building and through the roof of the building. Figure 2-2 illustrates the as-built vapor collection system plan.

The vapor collection media used for this project was selected due to its low radial flow resistance, low profile, large cross-sectional area and its utility in both passive and low capacity vapor venting systems. J-Drain (i.e., a GeoVent™ equivalent) is a low-profile pressure relief, collection and venting system ("PRCVS") that has been successfully utilized at hundreds of installations. It is a trenchless gas collection system that has several advantages over a trenched installation and can be used as an "active" or "passive" venting system depending on the specific project. Combined with a vapor barrier membrane, this type of low-profile vapor collection conduit is designed to alleviate the accumulation of vapors under the concrete floor slab.

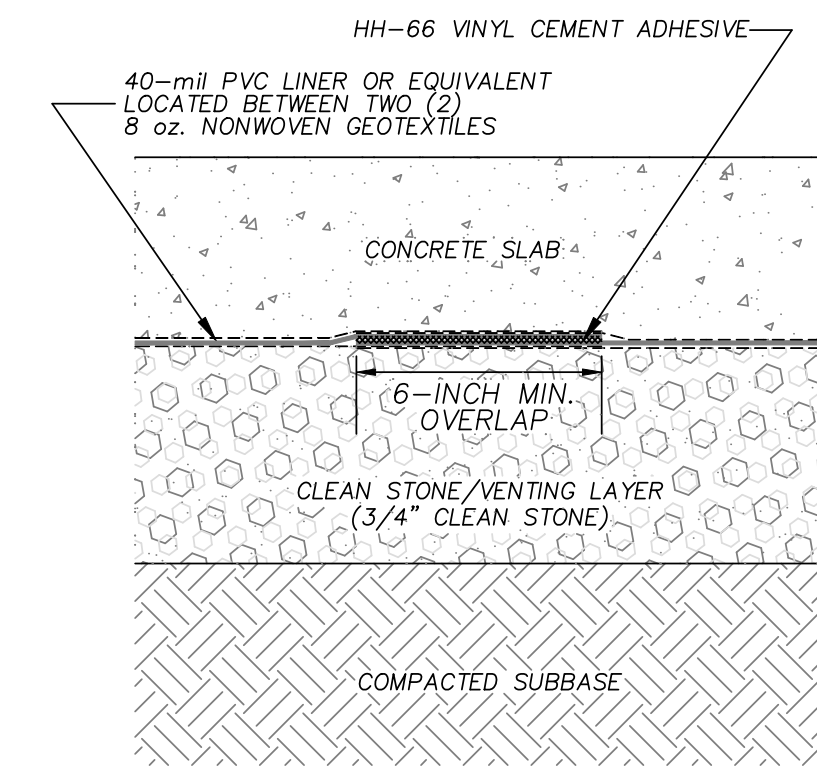
Vapors collecting beneath the vapor barrier will be collected in the vapor collection system and vented to the atmosphere via one (1) RP265 Series in-line induction fan unit. The induction fan unit was installed outside on top of the 4-inch diameter PVC riser pipe (i.e., induction side) above the roof. The induction fan connections were made using 4-inch to 6-inch flexible couplings. Discharge riser pipes consisting of 4-inch PVC pipe were also connected to the outlet of the fan units (i.e., blower side) and were vented using a PVC tee fitting rain cap at a minimum of 3 feet above the roof. A typical roof boot penetration seal was installed by the roofing contractor for the vent riser penetration through the roof. The electrical connection for the one (1) induction fan unit for the vapor collection system was performed by a licensed electrician via a dedicated electrical circuit breaker switch.



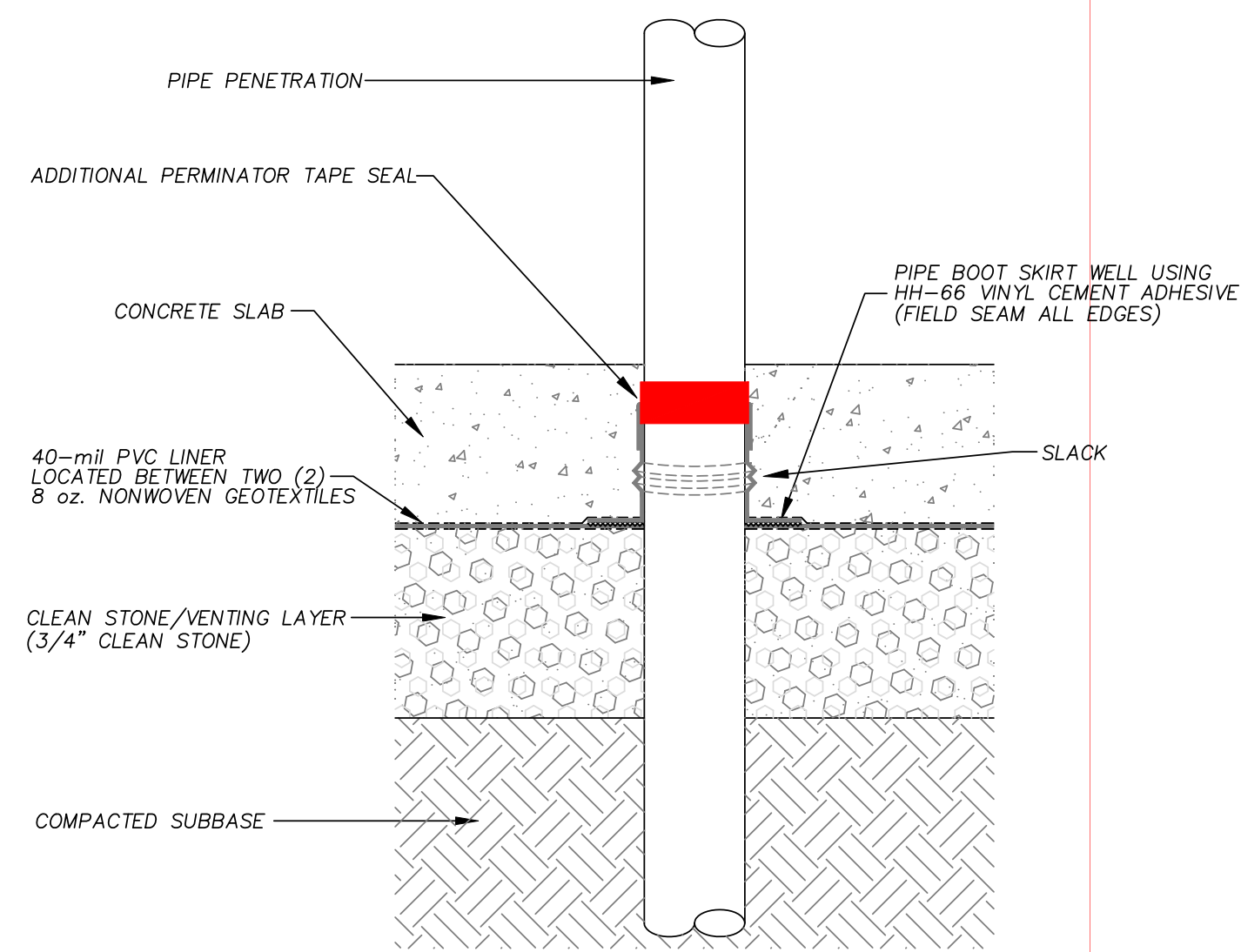
BUILDING SLAB AREA CAP WITH VAPOR BARRIER
NOT TO SCALE



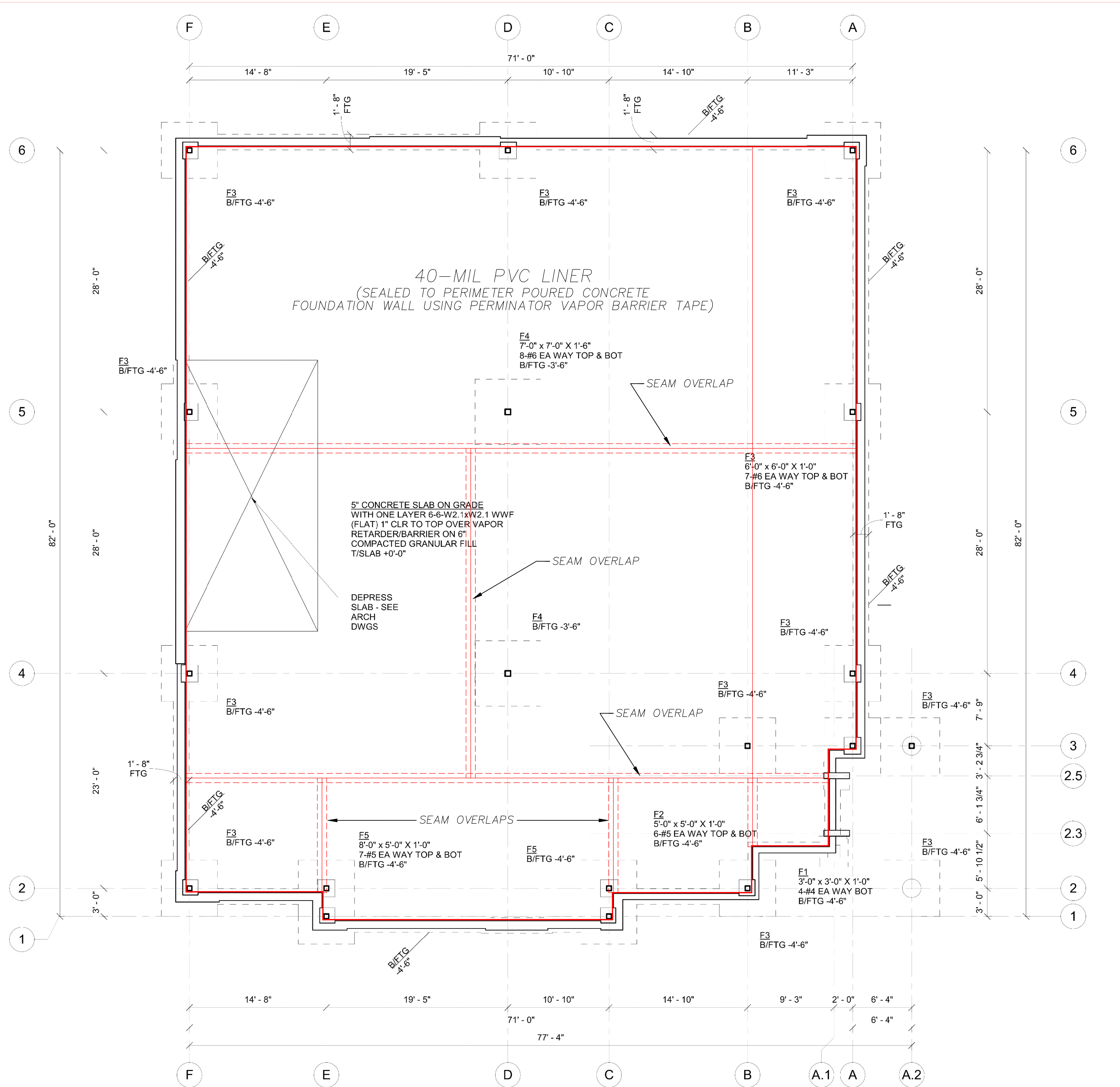
BLOCK WALL FASTENING DETAIL
NOT TO SCALE



SEAM DETAIL
NOT TO SCALE



PENETRATION DETAIL
NOT TO SCALE

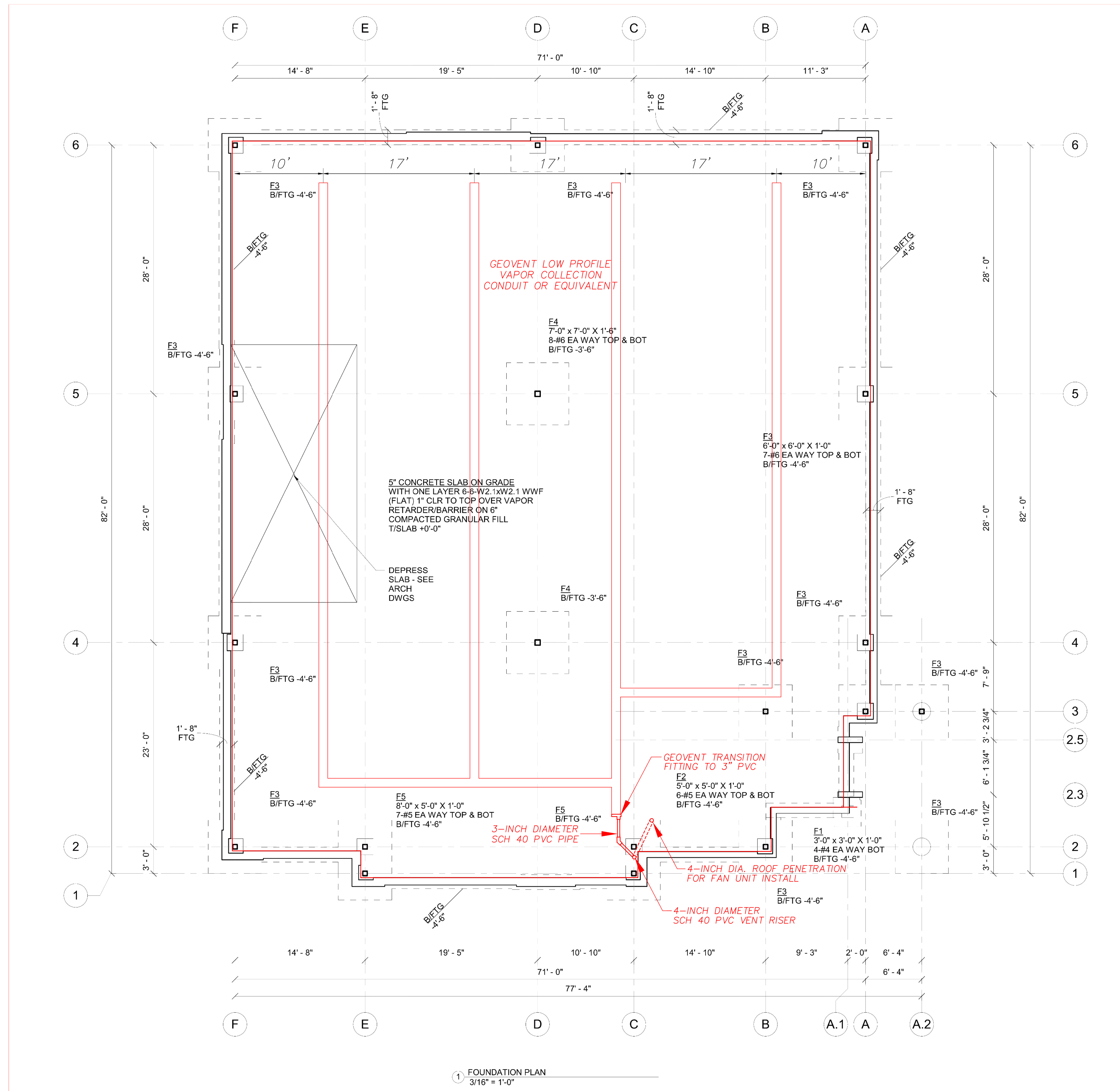


FOUNDATION PLAN
3/16" = 1'-0"

NOTES:

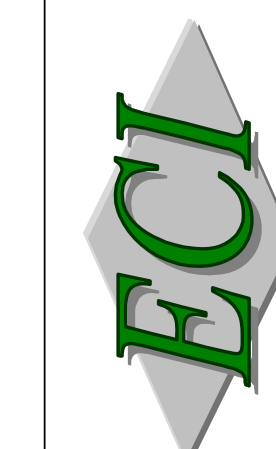
BASE PLAN OBTAINED FROM FOUNDATION PLAN PREPARED BY STUDIO GC, UNDATED.
SCALE IS APPROXIMATE AS THIS SITE PLAN IS INTENDED FOR ILLUSTRATIVE PURPOSES ONLY.

| | | | | | |
|--|--|----------------------------|---------------------------|--|--------------------------|
| | ENVIRONMENTAL CONSULTING, INC. 2002 RENAISSANCE BOULEVARD SUITE 110 KING OF PRUSSIA, PENNSYLVANIA 19406 | JOB No. 2016.110 | DRAWN BY: ADH | SCALE: 3/16" = 1' | FIGURE No. 2-1 |
| | CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN, 53212 709 EAST CAPITOL DRIVE | DATE: 9/20/17 | CHECKED BY: RSW | TITLE: VAPOR BARRIER SYSTEM PLAN | |



NOTES:

BASE PLAN OBTAINED FROM FOUNDATION PLAN PREPARED BY STUDIO GC, UNDATED.
SCALE IS APPROXIMATE AS THIS SITE PLAN IS INTENDED FOR ILLUSTRATIVE PURPOSES ONLY.

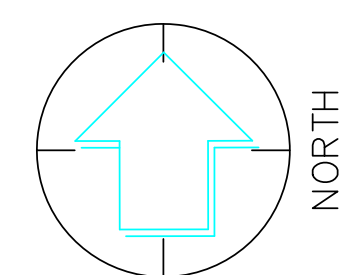


ENVIRONMENTAL CONSULTING, INC.
2002 RENAISSANCE BOULEVARD
SUITE 110
KING OF PRUSSIA, PENNSYLVANIA 19406

JOB No. 2016.110
DATE: 9/20/17
DRAWN BY: ADH
CHECKED BY: RSW

SCALE: 3/16" = 1'
TITLE: VAPOR COLLECTION SYSTEM PLAN

FIGURE No. 2-2



709 EAST CAPITOL DRIVE
CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN, 53212

3.0 OPERATION, MAINTENANCE AND MONITORING PROGRAM

3.1 Periodic Monitoring

Monitoring of the sub-slab vapor collection and vapor barrier system will be performed on a monthly basis at the subject property. The monitoring consists of a visual inspection of the sub-slab vapor collection and vapor barrier system to confirm the following:

- condition of the one (1) RP265 Series in-line induction fan unit located on the roof; and
- condition of the PVC riser piping associated with the vapor collection system.

Any damage to the system components (i.e., induction fan unit or PVC riser piping) or any malfunction of the system components will be addressed immediately. Any changes or repairs made to the sub-slab vapor collection and vapor barrier system should be documented and attached to this OMM Plan.

3.2 Annual Inspection

On an annual basis, a comprehensive inspection of the sub-slab vapor collection and vapor barrier system on the subject property should be performed by qualified personnel. The purpose of the annual inspection is to ensure no significant site changes occurred between inspections and that the sub-slab vapor collection and vapor barrier system components have not changed or degraded creating a complete pathway for vapor intrusion. The annual inspection should confirm the following:

- condition of the aboveground PVC piping system;
- operating condition of the one (1) RP265 Series in-line induction fan unit;
- presence or absence of cracks or other disturbances in the concrete floor slab in the building;
- vent pipes are open; and
- changes in the uses of the tenant spaces.

Based on the observations made during the annual inspection, the Wisconsin DNR Continuing Obligations Inspection and Maintenance Log should be completed and included with this OMM Plan. A copy of the Wisconsin DNR Continuing Obligations Inspection and Maintenance Log is included in Appendix A.

ATTACHMENT 1

**CONTINUING OBLIGATIONS
INSPECTION AND MAINTENANCE LOG**

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

| | |
|---|----------------------------------|
| Activity (Site) Name 709 East Capitol Drive | BRRTS No. 02-41-200169 |
|---|----------------------------------|

Inspections are required to be conducted (see closure approval letter):

annually

semi-annually

other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

| Inspection Date | Inspector Name | Item | Describe the condition of the item that is being inspected | Recommendations for repair or maintenance | Previous recommendations implemented? | Photographs taken and attached? |
|-----------------|----------------|---|--|---|---|---|
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |



January 23, 2018

Project No. 2016.110

Adam S. McIlheran, Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
Southeast Region, Milwaukee Service Center
2300 North Dr. Martin Luther King Drive
Milwaukee, Wisconsin 53212

RE: Site-Wide Cap Maintenance Plan
733 East Capitol Drive (formerly 709 East Capitol Drive)
City of Milwaukee, Milwaukee County, Wisconsin 53212
Parcel ID # 274-9989-113-6
BRRTS #02-41-200169
FID #241975140
GPS Coordinates: X=690792; Y=292759

Dear Mr. McIlheran,

Environmental Consulting, Inc. is pleased to submit this Maintenance Plan for a site-wide cap at the above referenced property, referenced hereinafter as the subject property, in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to the existing site-wide cap which occupies the area over the contaminated groundwater and soil.

More site-specific information about this property/site may be found in:

- The case file in the DNR Southeast office;
- BRRTS on the Web (DNR's internet based data base of contaminated sites) for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
- RR Sites Map/GIS Registry layer for a map view of the site, and
- The DNR project manager for Milwaukee County.

Description of Contamination

Soil contaminated by petroleum compounds and chlorinated solvent compounds is located on the subject property at depths ranging from 2 feet below ground surface ("bgs") to 15 feet bgs. Groundwater contaminated by petroleum compounds and chlorinated solvent compounds is located at depths ranging from approximately 4 feet bgs to 9 feet bgs. The extent of the soil and groundwater contamination is considered the full extent of the subject property and was originally capped with asphalt pavement as shown on Figure 1 included in Attachment 1.

Description of the Site-Wide Cap to be Maintained

The site-wide cap consists of a combination of a concrete building slab; asphalt and concrete pavement; and vegetated clean fill. The pavement section of the site-wide cap consists of approximately 4 inches of asphalt surface and binder overlying approximately 8 inches of aggregate base. The sidewalk consists of approximately 5 inches of concrete surface overlying approximately 4 inches of aggregate base. The soil cover consists of approximately 6 inches of topsoil overlying approximately 18 inches of clay. The

new site-wide cap also overlays the extent of the subject property as shown on Figure 2 in Attachment 2. A copy of the engineering specifications for the site-wide cap is included in Attachment 3.

Cover/Building/Slab/Barrier Purpose

The site-wide cap over the contaminated groundwater and soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. Based on the current commercial use of the subject property, the barrier should function as intended unless disturbed.

Annual Inspection

The site-wide cap overlying the contaminated groundwater and contaminated soil and as depicted in Figure 2 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration into or exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented.

A log of the inspections and any repairs will be maintained by the property owner, (i.e., Form 4400-305, Continuing Obligations Inspection and Maintenance Log). The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site and will be available for submittal or inspection by Wisconsin Department of Natural Resources (“DNR”) representatives upon their request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment. The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal laws.

In the event the site-wide cap overlying the contaminated groundwater and or contaminated soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the site-wide cap will maintain a copy of this Maintenance Plan at the site and make it available to all interested parties (e.g., on-site employees, contractors, future property owners, etc.) for viewing.

Location Map(s)

A location map is included as Figure 2 in Attachment 2 and includes the following:

- (1) the feature that requires maintenance;
- (2) the location of the feature(s) that require(s) maintenance: on and off the source property;
- (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site;
- (4) the extent and type of residual contamination; and
- (5) all property boundaries.

Photographs of Cover/Barrier

Photographs documenting the condition and extent of the cover/barrier/building/slab at the time of the closure modification are included in Attachment 4 and include the following:

- (1) a title on each photograph;
- (2) the site name and location of the feature; and
- (3) the date on which the photograph was taken.

Continuing Obligations Inspection and Maintenance Log

The Form 4400-305, which will be utilized while performing the annual continuing obligations inspection and maintenance log, is included in Attachment 5.

Please do not hesitate to contact us at (610) 279-7070 if you have any questions regarding this matter.

Sincerely,

ENVIRONMENTAL CONSULTING, INC.



Samuel J. Kucia
Vice President



Richard S. Werner, P.G.
President

cc: Robert Murdocca, Palestra Real Estate Partners, Inc.

ATTACHMENT 1

FIGURE 1 – ORIGINAL SITE-WIDE CAP PLAN

ATTACHMENT 2

FIGURE 2 – NEW SITE-WIDE CAP PLAN

ALTA/NSPS LAND TITLE SURVEY

PART OF GOVERNMENT LOTS 3 & 4
OWNER: SCRIPPS MEDIA INC

LOT 1
C.S.M. NO. 8229
OWNER: MILWAUKEE AREA TECHNICAL COLLEGE DISTRICT

CLIENT

Palestra Real Estate Partners, Inc.

SITE ADDRESS

733 East Capitol Drive, City of Milwaukee, Milwaukee County, Wisconsin.

LEGAL DESCRIPTION

Lot 1 of Certified Survey Map No. 8754, recorded on December 2, 2015, in Reel 8773 of Certified Survey Maps, as Document No. 10521036, being a redivision of Lots 1-4, Block 6, Village of Humboldt, part of Parcel 1 in Certified Survey Map No. 3681 and all of Parcel 2 in Certified Survey Map No. 3681, all of Parcel 1 in Certified Survey Map No. 4305, vacated East Melvina Street, vacated North Pierce Street, vacated alleys, part of Government Lot 5 and unplatted lands, all being part of the Northwest 1/4 and Northeast 1/4 of the Northwest 1/4 of Section 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin.

TITLE COMMITMENT

This survey was prepared based on Chicago Title Insurance Company Commitment No. CO-5111, effective date of July 6, 2016 which lists the following easements and/or restrictions from schedule B-1:

- 1, 5, 6, 7 & 8 visible evidence shown, if any.
- 2, 3, 5, 9, 14, 16, 17, 18, 19, 20, 21, & 22 not survey related.
10. Easement(s) for the purpose(s) and rights incidental thereto, as granted in a document, granted to Wisconsin Electric Power Company, for utility purposes, recorded on April 19, 1948, as Document No. 2783151. **Does not affect site, not shown.**
11. Easement(s) for the purpose(s) and rights incidental thereto, as granted in a document, granted to Wisconsin Electric Power Company, for utility purposes, recorded on April 19, 1984, as Document No. 5709808. **Does not affect site, not shown.**
12. Covenants, Conditions and Restrictions as set forth on Warranty Deed, recorded on July 1, 1986 as Document No. 5931905. **Affects entire property, blanket type, shown on Vicinity Map.**
13. Subordination and Consent to Easement, recorded on March 12, 1998 as Document No. 7501582 and on March 12, 1998 as Document No. 7501583. **Affects property, blanket type, shown on Vicinity Map.**
15. Recitals as shown on Certified Survey Map No. 8754, recorded on December 2, 2015, as Document No. 10521036, which among other things recites Utilities Restriction. Reference is hereby made to said document for full particulars. **Affects property, Utility Restriction Note: "That all utility lines to provide electric power and telephone services and cable television or communications systems lines or cables to all lots in the Certified Survey Map shall be installed underground in easements provided therefore, where feasible".**

TABLE "A" ITEMS

6(A). A zoning report has been provided, prepared by:

Bock & Clark Zoning
3000 S. Berry Rd., Ste. 150
Norman, OK 73072
800-787-8390

Project Number: 7201600704, Report Date: August 23, 2016

Municipal Code: Sec. 295-605-2
Site is zoned: LB2 (Local Business)
Front setback, minimum: none
Front setback, maximum: average
Side street setback, minimum: none
Side street setback, maximum: 5 feet
Rear street setback, minimum: none
Rear street setback, maximum: none
Side setback, minimum: none
Side setback, maximum: none
Rear setback, minimum: none
Rear setback, maximum: none
Height, maximum: 60 feet
Height, minimum: 18 feet

11. Utility lines are shown from visible surface evidence, municipal plans and from plans and markings provided by Diggers Hotline, the One-call Utility Marking System (Wisconsin Statute 182.0175), Ticket Number 2018020941. This survey represents the underground utilities that participated with the request and were marked on the time of the survey. Additional utilities may exist, but were non-responsive to the request.

16. There is visible evidence of earth moving, building construction or building additions within recent months.

17. There are no changes in street right of way lines either completed or proposed, and available from the controlling jurisdiction. Observable evidence of recent street or sidewalk construction or repairs if any, is shown.

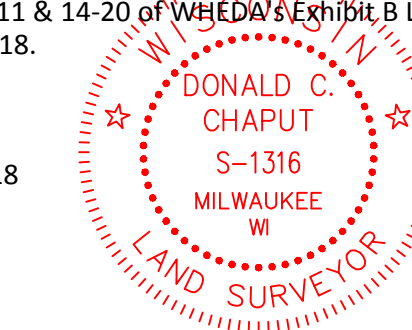
18. There is no evidence on site of delineated wetlands areas.

19. There were no offsite easements or servitudes benefiting the survey property disclosed in furnished Title Commitment at the time of survey.

TO: Milwaukee Capitol, LLC
TRISTATE CAPITAL BANK
Chicago Title Insurance Company
Wisconsin Housing and Economic Development Authority, its successors and assigns (WHEDA)

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 7(a), 7(b1), 7(b2), 7(c), 8, 9, 11, 13, 14, 16, 17, 18, 19 and 20 of Table A thereof and Items 1-11 & 14-20 of WHEDA's Exhibit B Land Title Survey requirements. The field work was completed on January 10, 2018.

Date of Map: January 12, 2018



Donald C. Chaput
Professional Land Surveyor
Registration Number S-1316

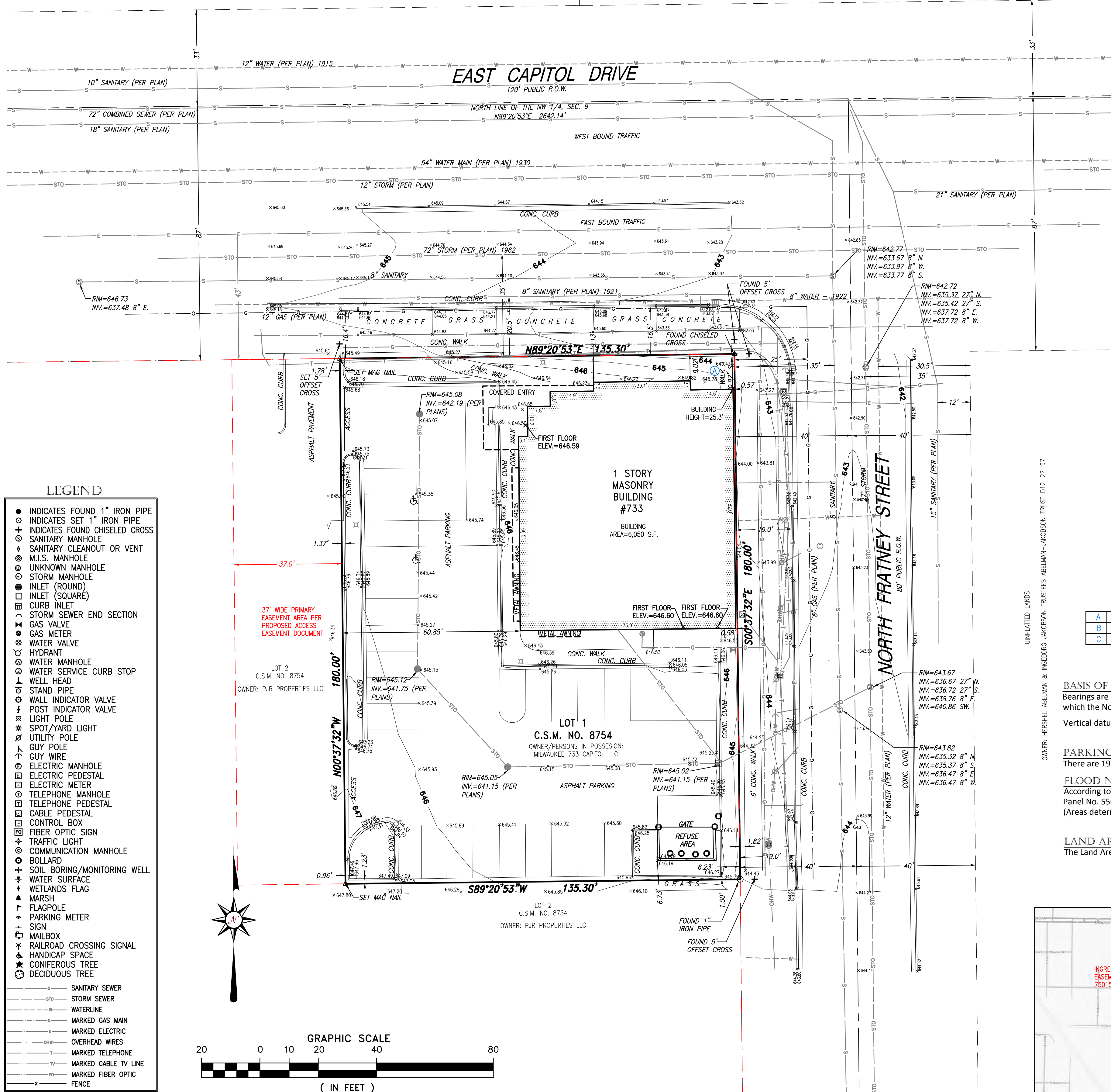
CHAPUT
LAND SURVEYS

234 W. Florida Street
Milwaukee, WI 53204

414-224-8068
www.chaputlandsurveys.com

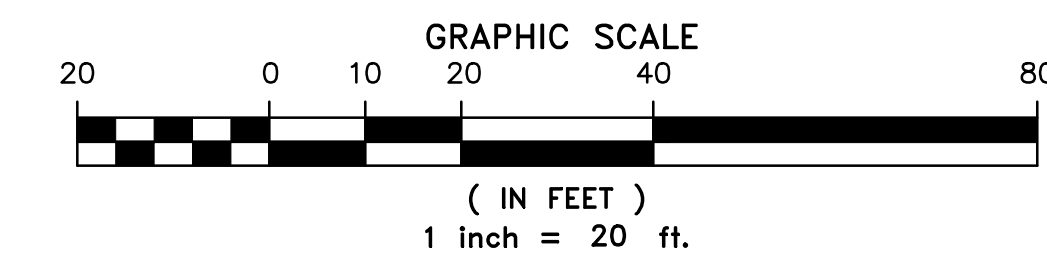
| Date | Revision description |
|------|----------------------|
| | |
| | |
| | |

This document is an instrument of professional service, and may be protected by the surveyor's work product doctrine or surveyor's client privilege. The information shown hereon is intended solely for the use of the client and client directed third parties.
Drawing No. 1942.02-dmb



LEGEND

- INDICATES FOUND 1" IRON PIPE
- INDICATES SET 1" IRON PIPE
- + INDICATES FOUND CHISELED CROSS
- ⊙ SANITARY MANHOLE
- ⊕ SANITARY CLEANOUT OR VENT
- ⊙ M.I.S. MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ STORM MANHOLE
- ⊙ INLET (ROUND)
- ⊙ INLET (SQUARE)
- ⊙ CURB INLET
- ⊙ STORM SEWER END SECTION
- ⊙ GAS VALVE
- ⊙ WATER VALVE
- ⊙ HYDRANT
- ⊙ WATER MANHOLE
- ⊙ WATER SERVICE CURB STOP
- ⊙ WELL HEAD
- ⊙ STAND PIPE
- ⊙ WALL INDICATOR VALVE
- ⊙ POST INDICATOR VALVE
- ⊙ LIGHT POLE
- ⊙ SPOT/YARD LIGHT
- ⊙ UTILITY POLE
- ⊙ GUY POLE
- ⊙ GUY WIRE
- ⊙ ELECTRIC MANHOLE
- ⊙ ELECTRIC PEDESTAL
- ⊙ ELECTRIC METER
- ⊙ TELEPHONE MANHOLE
- ⊙ TELEPHONE PEDESTAL
- ⊙ CABLE PEDESTAL
- ⊙ CONTROL BOX
- ⊙ FIBER OPTIC SIGN
- ⊙ TRAFFIC LIGHT
- ⊙ COMMUNICATION MANHOLE
- ⊙ BOLLARD
- ⊙ SOIL BORING/MONITORING WELL
- ⊙ WETLANDS FLAG
- ⊙ MARSH
- ⊙ FLAGPOLE
- ⊙ PARKING METER
- ⊙ SIGN
- ⊙ MAILBOX
- ⊙ RAILROAD CROSSING SIGNAL
- ⊙ HANDICAP SPACE
- ⊙ CONIFEROUS TREE
- ⊙ DECIDUOUS TREE
- SANITARY SEWER
- STORM SEWER
- WATERLINE
- MARKED GAS MAIN
- MARKED ELECTRIC
- OVERHEAD WIRES
- MARKED TELEPHONE
- MARKED CABLE TV LINE
- MARKED FIBER OPTIC
- FENCE



ENCROACHMENT TABLE

| Item | Description |
|------|-------------------------------------|
| A | WALK 0.97' OVER NORTH PROPERTY LINE |
| B | |
| C | |

BASIS OF BEARINGS

Bearings are referenced to the Wisconsin State Plane Coordinate System (South Zone), in which the North line of the NW 1/4 of Section 9 bears N89°20'53"E.

Vertical datum is based on National Geodetic Vertical Datum of 1929.

PARKING SPACES

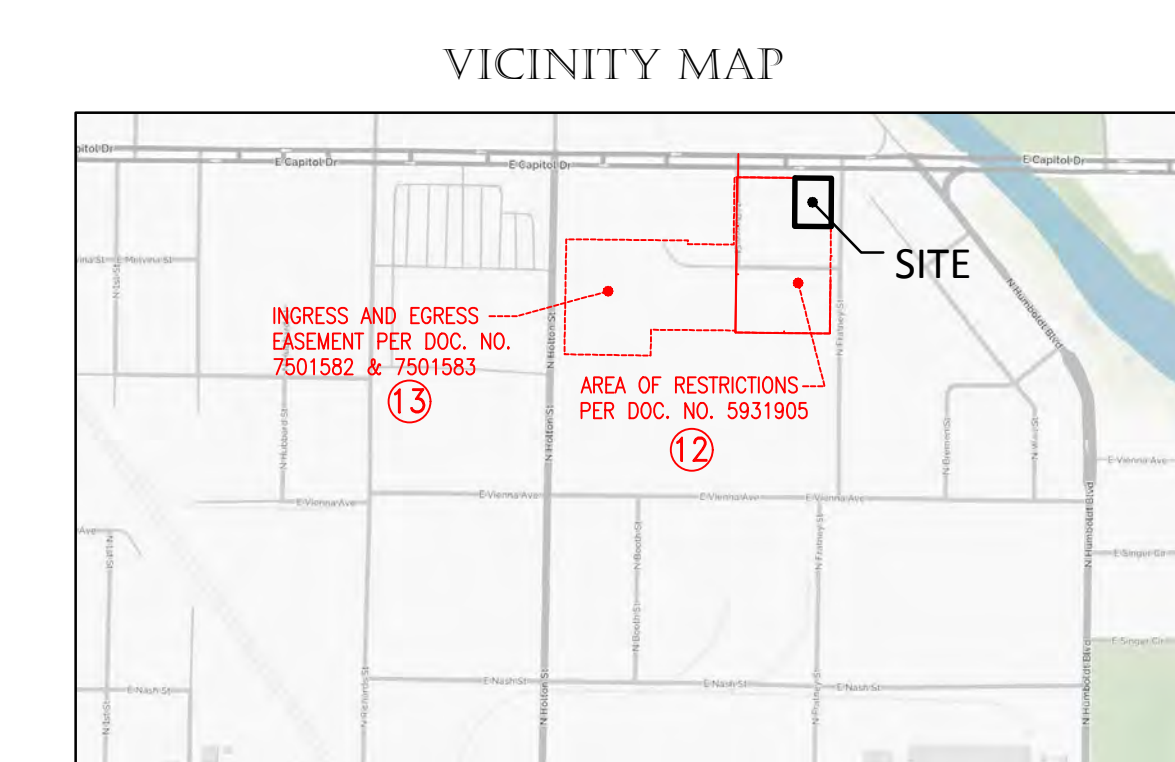
There are 19 regular parking spaces and 2 handicap spaces marked on this site.

FLOOD NOTE

According to the flood insurance rate map of the County of Milwaukee, Community Panel No. 55079C0084E, effective date of September 26, 2008, this site falls in Zone X (Areas determined to be outside the 0.2% annual chance floodplain).

LAND AREA

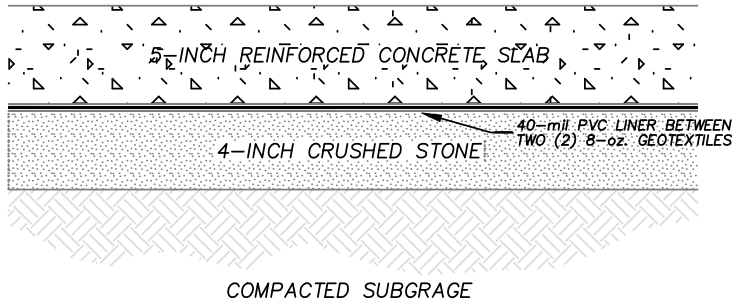
The Land Area of the subject property is 24,354 square feet or 0.5591 acres.



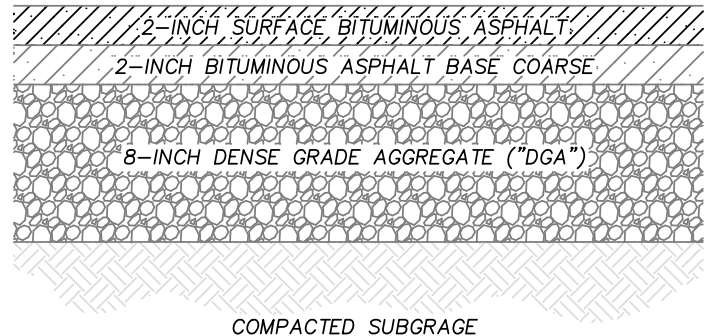
CHAPUT LAND SURVEYS

ATTACHMENT 3

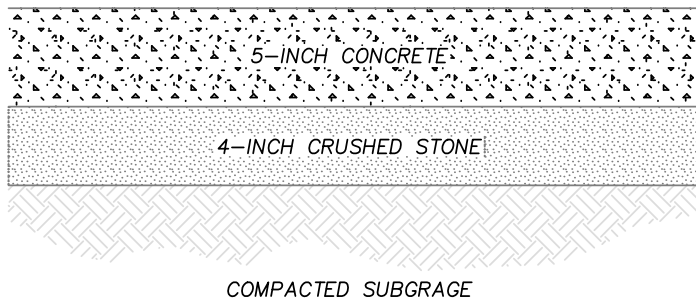
ENGINEERING SPECIFICATIONS



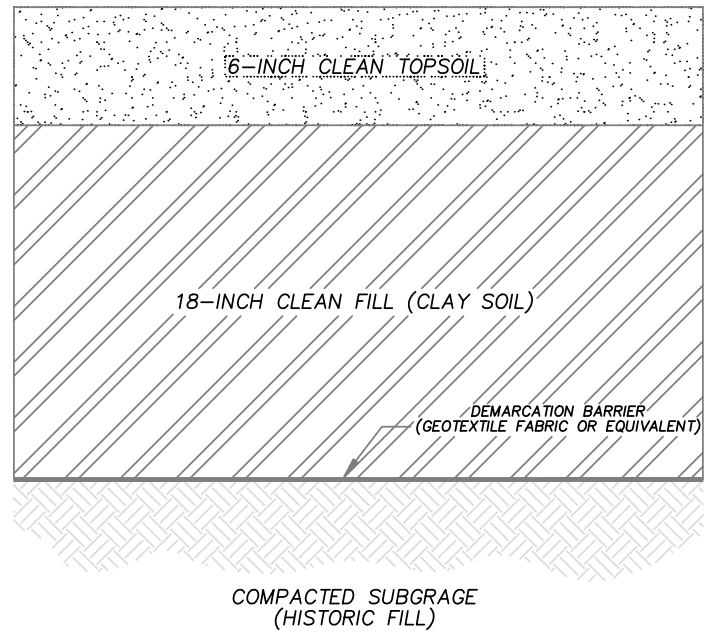
BUILDING SLAB AREA CAP
WITH VAPOR BARRIER
 NOT TO SCALE



ASPHALT PAVEMENT AREA CAP
 NOT TO SCALE



CONCRETE WALKWAYS
 NOT TO SCALE



LANDSCAPE AREAS
 NOT TO SCALE

\\2016.110\CAP CROSS SECTIONS



ENVIRONMENTAL CONSULTING, INC.
 2002 RENAISSANCE BOULEVARD
 SUITE 110
 KING OF PRUSSIA, PENNSYLVANIA 19406

JOB No.
2016.110
 DATE:
12/18/17

DRAWN BY:
ADH
 CHECKED BY:
RSW

SCALE:
NONE
 TITLE:

ATTACHMENT No.: **3**

733 EAST CAPITOL DRIVE
 (FORMERLY 709 EAST CAPITOL DRIVE)
 CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN 53212

**ENGINEERING
 SPECIFICATIONS**

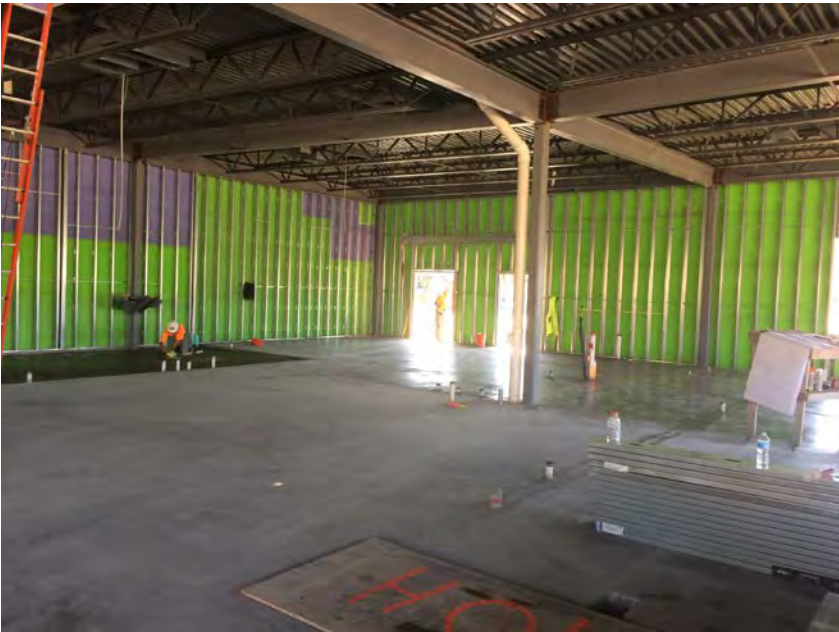
ATTACHMENT 4

PHOTOGRAPHS



PHOTOGRAPH #1

View of the concrete building pad installation on September 22, 2017 (first concrete pour).



PHOTOGRAPH #2

View of the concrete building pad installation on September 28, 2017 (second concrete pour).



PHOTOGRAPH #3

View of the asphalt pavement cap installed on the subject property (photograph taken on November 17, 2017).

733 East Capitol Drive
(Formerly 709 East Capitol Drive)
Milwaukee, Milwaukee County, Wisconsin 53212
Project No. 2016.110





PHOTOGRAPH #4

View of the asphalt pavement cap installed on the subject property (photograph taken on November 17, 2017).



PHOTOGRAPH #5

View of a typical concrete sidewalk cap section on the subject property (photograph taken the week of November 27, 2017).



PHOTOGRAPH #6

View of a typical clean topsoil cap section on the subject property (photograph taken the week of December 4, 2017).

**733 East Capitol Drive
(Formerly 709 East Capitol Drive)
Milwaukee, Milwaukee County, Wisconsin 53212
Project No. 2016.110**



ATTACHMENT 5

INSPECTION AND MAINTENANCE LOG

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

| | |
|---|----------------------------------|
| Activity (Site) Name 709 East Capitol Drive | BRRTS No. 02-41-200169 |
|---|----------------------------------|

Inspections are required to be conducted (see closure approval letter):

annually
 semi-annually
 other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

| Inspection Date | Inspector Name | Item | Describe the condition of the item that is being inspected | Recommendations for repair or maintenance | Previous recommendations implemented? | Photographs taken and attached? |
|-----------------|----------------|---|--|---|---|---|
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |
| | | <input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: | | | <input type="radio"/> Y <input type="radio"/> N | <input type="radio"/> Y <input type="radio"/> N |

