



June 4, 2024

Ronnie E. Lee, P.E.
NYSDEC
Department of Environmental Remediation
625 Broadway
Albany, NY 12233-7016

RE: RAWP Addendum #6 – Temporary SVE System Effluent Discharge
737 4th Avenue, Brooklyn, NY
BCP #C224332

Dear Mr. Lee:

P.W. Grosser Consulting Engineer & Hydrogeologist, P.C. (PWGC) has prepared this addendum to the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Workplan (RAWP), dated February 2023, for the above-referenced site (the Site). The purpose of this RAWP Addendum #6 is to document the proposed location of the soil vapor extraction (SVE) system's temporary effluent discharge location.

The permanent installation of the SVE system will occur, if needed, after the building superstructure has been completed. As the site is pursuing a Certificate of Completion (COC) for 2024, a temporary installation has been proposed that will place the SVE system in the basement and the effluent discharge routed towards 4th Avenue at approximately the height of the second floor. The temporary effluent discharge piping will be secured to the ceiling of the first floor and will then be routed west outside of the building and over the top of the pedestrian scaffolding bridge. This will place the effluent discharge a minimum of 10 feet from the building openings and approximately 15 feet above the sidewalk level. As a reminder, the SVE system has two carbon drums to treat the effluent prior to discharge.

An updated set of design plans are included as **Attachment A**. For ease of review, the areas of revision have been marked with cloud outlines.

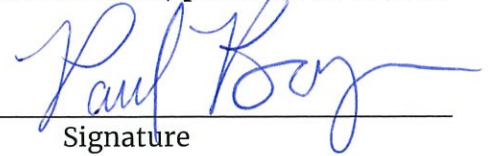


I, Paul K. Boyce, PE, PG, certify that I am currently a New York State registered professional engineer (PE) and that this Remedial Design Work Plan (RDWP) was prepared in accordance with applicable statutes and regulations and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation (DER-10).

I certify that the information and statements in this certification are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

074604

06.04.2024



New York State PE #

Date

Signature

It is a violation of Article 145 of the New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.





ATTACHMENT A





SITE LOCATION MAP
SCALE: 1" = 400'

- ### General Notes
- DRAWING NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER REFERENCE EXCEPT FOR SUB-SLAB DEPRESSURIZATION SYSTEM AND VAPOR BARRIER.
 - COORDINATE ALL WORK FOR SUB-SLAB DEPRESSURIZATION SYSTEM, VAPOR BARRIER AND ROOF PENETRATION WITH OTHER TRADES PRIOR TO INSTALLATION.
 - COORDINATE LOCATION OF RISER WITH ARCHITECT.
 - FIELD CONDITIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO ANY WORK.
 - SLOPE ALL SOLID PIPING DOWNWARD TOWARDS SSDS GEOVENT AT MIN. 1/8" PER FT. OF PIPING.
 - ALL DUCTING AND FITTINGS TO BE GALVANIZED CLOSED DUCTING NORDFAB WITH AIR TIGHT QUICK FIT COUPLINGS OR APPROVED EQUIVALENT.
 - COUPLING FLANGES TO BE SEALED WITH VAPOR TIGHT TAPE AND COUPLED WITH QUICK FIT COUPLINGS.
 - SOIL VAPOR EXHAUST VENT SHALL BE:
 - ABOVE THE EAVE OF THE ROOF (PREFERABLY, ABOVE THE HIGHEST EAVE OF THE BUILDING AT LEAST 12 INCHES ABOVE THE SURFACE OF THE ROOF)
 - AT LEAST 15 FEET ABOVE GROUND LEVEL.
 - AT LEAST 15 FEET AWAY FROM ANY OPENING THAT IS LESS THAN 2 FEET BELOW THE EXHAUST POINT, AND 10 FEET FROM ANY ADJOINING OR ADJACENT BUILDINGS, OR HVAC INTAKES OR SUPPLY REGISTERS.
 - ALL ELECTRICAL TO BE INSTALLED BY LICENSED ELECTRICIAN.
 - PROVIDE DESIGNATED CIRCUIT FOR POTENTIAL FUTURE BLOWER AS SPECIFIED.
 - ALL EXTERIOR PENETRATIONS FOR ELECTRICAL & PIPING TO BE BOOTED AND WATER TIGHT.
 - ALL CONCRETE PENETRATIONS SHALL BE SEALED WITH LIQUID BITUMENE OR ENGINEER APPROVED EQUAL.
 - GRAVEL LAYER TO BE 2"-1" CRUSHED STONE WITH LESS THAN 10% PASSING #80 SIEVE.
 - VAPOR BARRIER TO BE INSTALLED BELOW ENTIRE BUILDING FOOTPRINT AND TERMINATE AT OR ABOVE GRADE ON EXTERIOR FOUNDATION WALL.
 - GEOTEXTILE FABRIC TO BE 8 OZ NON-WOVEN OR APPROVED EQUIVALENT.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEERS APPROVAL, INCLUDING BUT NOT LIMITED TO:
 - PIPING MATERIALS AND FITTINGS
 - FAN MAKE AND MANUFACTURER
 - VACUUM MONITORING POINT & FITTINGS
 - DUCT SUPPORTS
 - CRUSHED STONE SELECTION AND SIEVE ANALYSIS
 - BLOWER PACKAGE WITH APPURTENANCES
 - TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THE APPLICATION IS IN COMPLIANCE WITH THE NEECE BY APPLICATION OF ASHRAE 62.1, AS MODIFIED BY APPENDIX CA.

Legend

	ABOVE-SLAB SOLID PIPING/DUCTING		SSDS (ABOVEGROUND)
	EXTENTS OF VAPOR BARRIERS AND GRAVEL LAYER INSTALLATION		SSDS (BELOWGROUND)
	SUB-SLAB GEOVENT		SVE (ABOVEGROUND)
	INSTALLED SENTINEL WELL (TYP. 10)		SVE (BELOWGROUND)
	INSTALLED ISCO WELL (TYP. 18)		COMBINED SVE/SSDS
	INSTALLED MTA WELL (TYP. 2)		
	DESTROYED WELL (TYP. 7)		
	SOIL SLEEVE (TYP. 3)		

Scope of Work

INSTALLATION OF PASSIVE SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) AND SOIL VAPOR EXTRACTION (SVE) SYSTEM AT PROJECT SITE AS SHOWN ON THESE PLANS AND SPECIFICATIONS INCLUDING:

- INSTALLATION OF SUB-SLAB PIPING AND MATERIAL
- INSTALLATION OF TWO SVE WELLS
- FURNISH AND INSTALL BLOWER PACKAGE
- INSTALLATION OF RISER PIPING AND EQUIPMENT
- INSTALLATION OF VAPOR BARRIER BELOW ENTIRE BUILDING SLAB TO GRADE
- INSTALLATION OF CRUSHED STONE LAYER BELOW SLAB
- INSTALLATION OF ELECTRICAL WORK
- FACILITATION OF WORK AS SPECIFIED
- SPECIAL PROGRESS INSPECTIONS:
 - MECHANICAL SYSTEMS INSPECTION
 - FINAL INSPECTION

Energy Analysis Commercial

REFERENCE STANDARD	SCOPE OF WORK	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE & CITATION
2020 NYSECC CHAPTER 44 ZONE 4A	SSDS INSTALLATION	NO IMPACT ON BUILDING THERMAL ENVELOPE OR ENERGY SYSTEMS	NA	NA

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E-mail: INFO@PWGROSSER.COM

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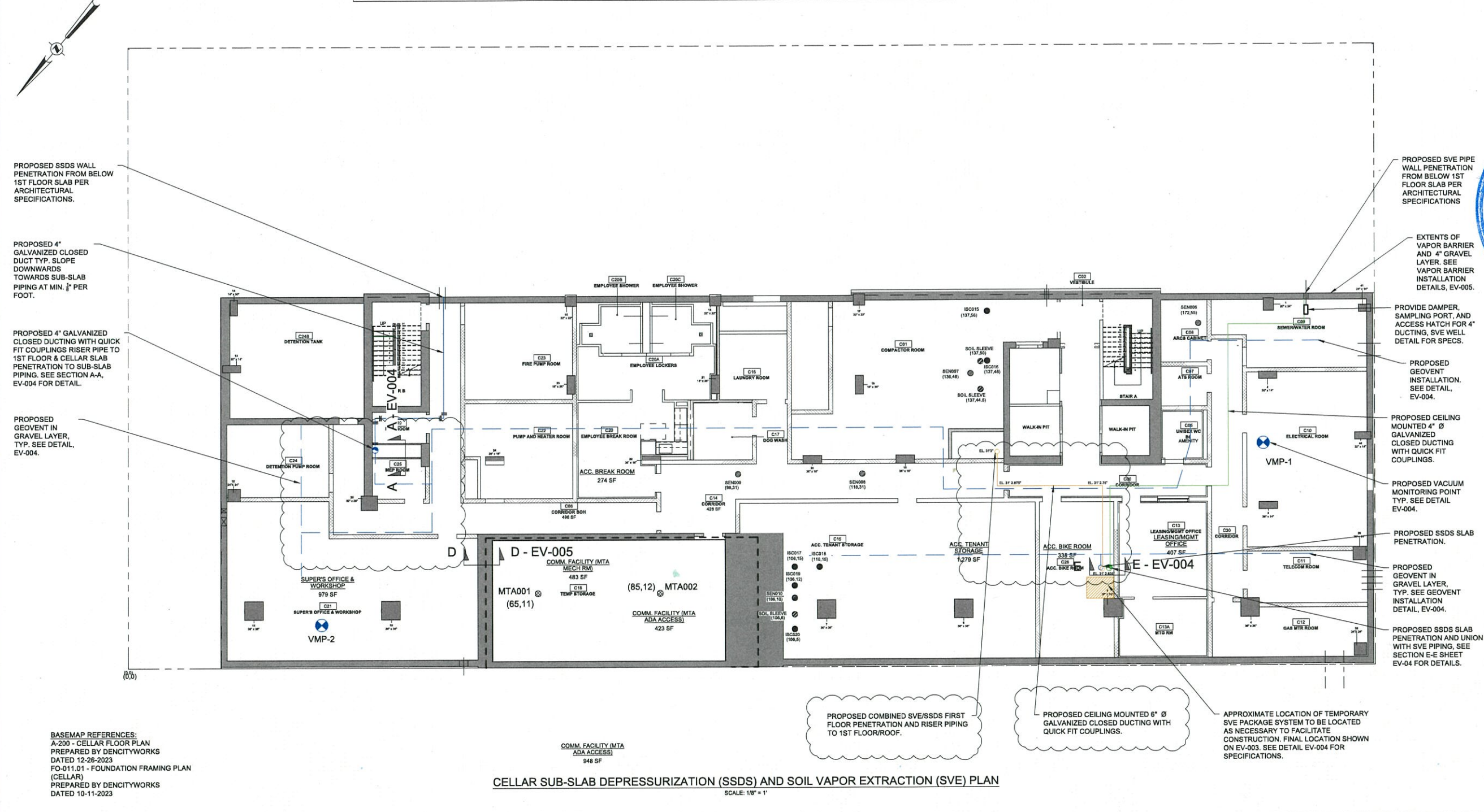
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4	ISSUED FOR 80% CD	04/25/2023
3	DEC SUBMISSION	03/31/2023
2	ISSUED FOR 70% CD	02/03/2023
1	ISSUED FOR 60% CD	12/02/2022

MS	-
AP	11/03/2022
PKB	AS NOTED

TOT2101
731-747 4TH AVE.
BROOKLYN, NY
EXCAVATION PLAN
731-747 4TH AVE.
BROOKLYN, NY
KINGS COUNTY, NEW YORK
BLOCK 652- LOT 1,7 TOT2101

SSDS & SVE CELLAR FLOOR PLANS

EV-001
1 6
TOT2101



PROPOSED SSDS WALL PENETRATION FROM BELOW 1ST FLOOR SLAB PER ARCHITECTURAL SPECIFICATIONS.

PROPOSED 4" GALVANIZED CLOSED DUCT TYP. SLOPE DOWNWARDS TOWARDS SUB-SLAB PIPING AT MIN. 1/8" PER FOOT.

PROPOSED 4" GALVANIZED CLOSED DUCTING WITH QUICK FIT COUPLINGS RISER PIPE TO 1ST FLOOR & CELLAR SLAB PENETRATION TO SUB-SLAB PIPING. SEE SECTION A-A, EV-004 FOR DETAIL.

PROPOSED GEOVENT IN GRAVEL LAYER, TYP. SEE DETAIL, EV-004.

PROPOSED SVE PIPE WALL PENETRATION FROM BELOW 1ST FLOOR SLAB PER ARCHITECTURAL SPECIFICATIONS

EXTENTS OF VAPOR BARRIER AND 4" GRAVEL LAYER. SEE VAPOR BARRIER INSTALLATION DETAILS, EV-005.

PROVIDE DAMPER, SAMPLING PORT, AND ACCESS HATCH FOR 4" DUCTING, SVE WELL DETAIL FOR SPECS.

PROPOSED GEOVENT INSTALLATION. SEE DETAIL, EV-004.

PROPOSED CEILING MOUNTED 4" Ø GALVANIZED CLOSED DUCTING WITH QUICK FIT COUPLINGS.

PROPOSED VACUUM MONITORING POINT TYP. SEE DETAIL EV-004.

PROPOSED SSDS SLAB PENETRATION.

PROPOSED GEOVENT IN GRAVEL LAYER, TYP. SEE GEOVENT INSTALLATION DETAIL, EV-004.

PROPOSED SSDS SLAB PENETRATION AND UNION WITH SVE PIPING, SEE SECTION E-E SHEET EV-04 FOR DETAILS.

PROPOSED COMBINED SVE/SSDS FIRST FLOOR PENETRATION AND RISER PIPING TO 1ST FLOOR/ROOF.

PROPOSED CEILING MOUNTED 6" Ø GALVANIZED CLOSED DUCTING WITH QUICK FIT COUPLINGS.

APPROXIMATE LOCATION OF TEMPORARY SVE PACKAGE SYSTEM TO BE LOCATED AS NECESSARY TO FACILITATE CONSTRUCTION. FINAL LOCATION SHOWN ON EV-003. SEE DETAIL EV-004 FOR SPECIFICATIONS.

BASEMAP REFERENCES:
A-200 - CELLAR FLOOR PLAN
PREPARED BY DENCITYWORKS
DATED 12-26-2023
FO-011.01 - FOUNDATION FRAMING PLAN
(CELLAR)
PREPARED BY DENCITYWORKS
DATED 10-11-2023

CELLAR SUB-SLAB DEPRESSURIZATION (SSDS) AND SOIL VAPOR EXTRACTION (SVE) PLAN
SCALE: 1/8" = 1'

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Legend			
	ABOVE-SLAB SOLID PIPING/DUCTING		SSDS (ABOVEGROUND)
	EXTENTS OF VAPOR BARRIERS AND GRAVEL LAYER INSTALLATION		SSDS (BELOWGROUND)
	SUB-SLAB GEOVENT		SVE (ABOVEGROUND)
	INSTALLED SENTINEL WELL (TYP. 10)		SVE (BELOWGROUND)
	INSTALLED ISCO WELL (TYP. 18)		COMBINED SVE/SSDS
	INSTALLED MTA WELL (TYP. 2)		
	DESTROYED WELL (TYP. 7)		
	SOIL SLEEVE (TYP. 3)		

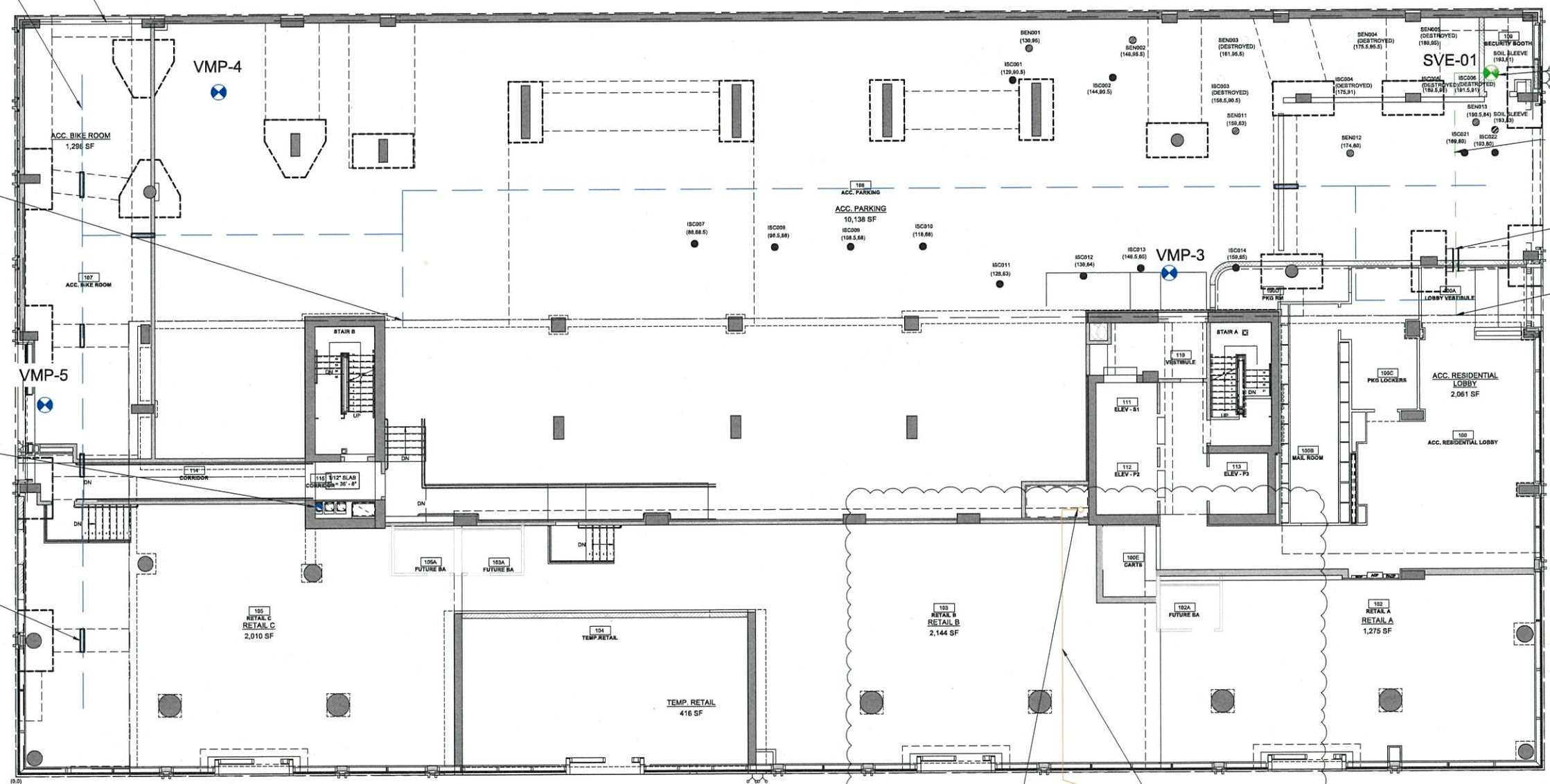
EXTENTS OF VAPOR BARRIER AND 4" GRAVEL LAYER. SEE VAPOR BARRIER INSTALLATION DETAILS, EV-005.

PROPOSED GEOVENT IN GRAVEL LAYER TYP. SEE DETAIL, EV-004.

PROPOSED CELLAR WALL PENETRATION

PROPOSED 6" GALVANIZED CLOSED DUCTING RISER PIPE TO ROOF, TYP.

PROPOSED 6" DUCTILE IRON SLEEVE THROUGH GRADE BEAM, TYP.



4" Ø SCH. 40 PVC SVE WELL, X' WELL SCREEN. SEE DETAIL EV-004.

PROPOSED 4" Ø SCH. 80 PVC SOLID PIPING SLOPED MIN 1/8" PER FOOT TOWARDS SVE WELL.

6" Ø DUCTILE IRON PIPE SLEEVE THROUGH GRADE BEAM

PROPOSED CELLAR WALL PENETRATION.



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BLOCK 652- LOT 1,7 TOT2101

**SSDS & SVE
FIRST FLOOR PLANS**

EV-002

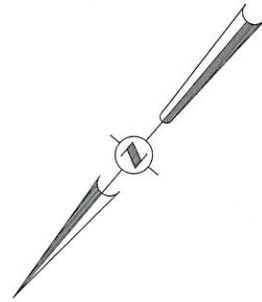
2 6

TOT2101

BASEMAP REFERENCES:
A-201 - FIRST FLOOR PLAN
PREPARED BY DENCITYWORKS
DATED 12-26-2023
S-210.01 - 1ST FLOOR FRAMING PLAN
PREPARED BY DENCITYWORKS
DATED 10-11-2023

1ST FLOOR SSDS & SVE PLAN
SCALE: 1/8" = 1'

COMBINED SVE/SSDS PIPING FIRST FLOOR PENETRATION
TEMPORARY SVE EFFLUENT DISCHARGE. SEE DETAIL ON EV-006
PROPOSED CEILING MOUNTED 6" Ø GALVANIZED CLOSE DUCTING WITH QUICK FIT COUPLINGS, MAX 12' SPACING



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**SSDS
 DETAILS-2**

EV-003

3 6

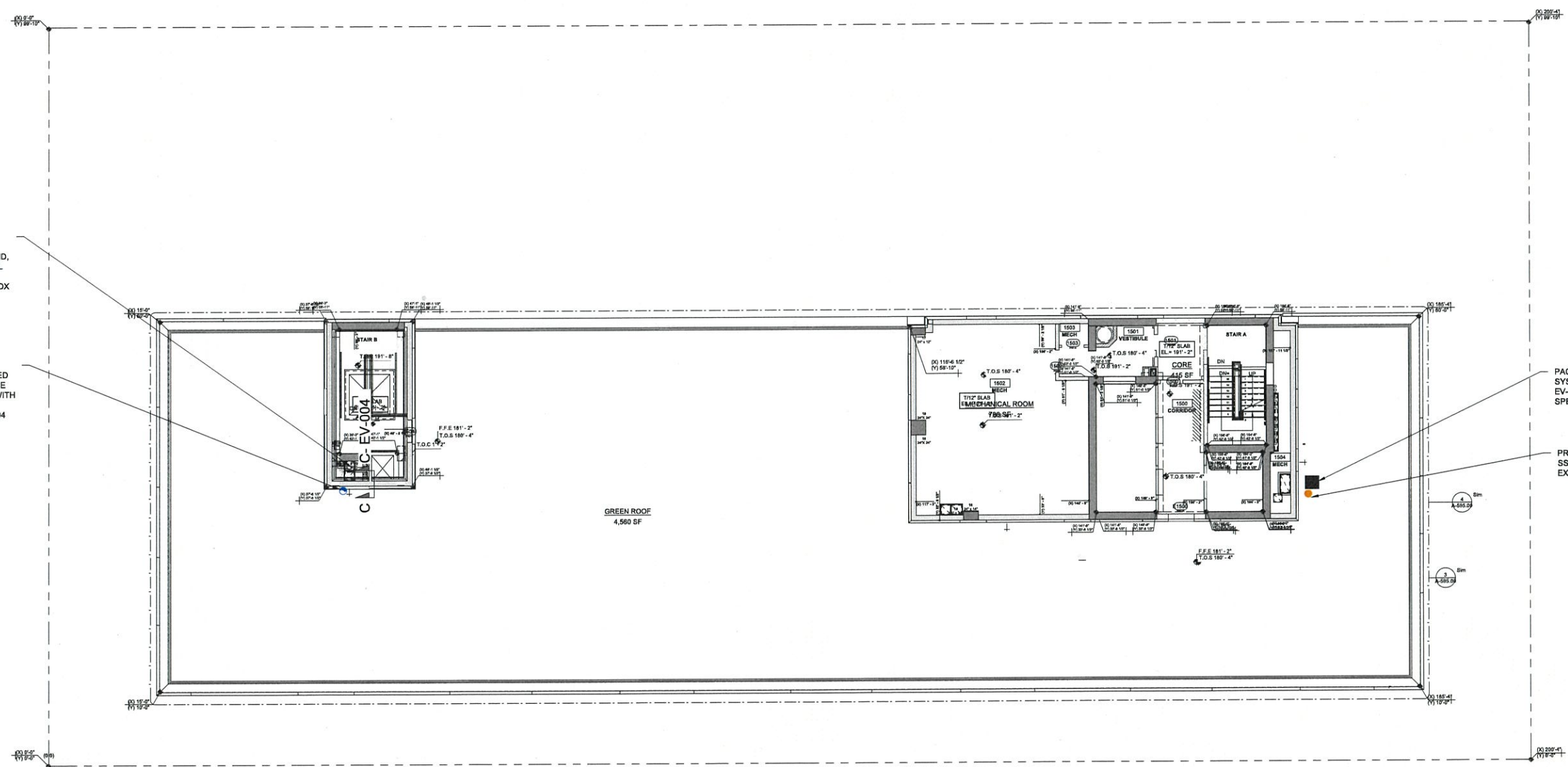
TOT2101

PROPOSED DESIGNATED 2-#12 WIRES AND GROUND, 15 AMP ELECTRICAL CIRCUIT IN WATER TIGHT JUNCTION BOX FOR FUTURE CONNECTION.

PROPOSED 6" GALVANIZED CLOSED DUCTING RISER PIPE FROM 1ST FLOOR WITH VENTILATOR SEE SECTION C-C, EV-004 FOR DETAILS.

PACKAGE SVE SYSTEM. SEE DETAIL EV-004 FOR SPECIFICATIONS.

PROPOSED 6" Ø SSDS/SVE EXHAUST.



BASEMAP REFERENCES:
 A-216.00 - BLKHD 1(R/BY)
 PREPARED BY DENCITYWORKS
 DATED: 12-26-2023
 S-360.00 - BULKHEAD FRAMING PLAN
 PREPARED BY DENCITYWORKS
 DATED 10-11-2023A-216.00 - BLKHD 1(R/BY)
 A-215.00 - 15TH FLOOR MAIN ROOF FLOOR PLAN
 PREPARED BY DENCITYWORKS
 DATED: 03-30-2024

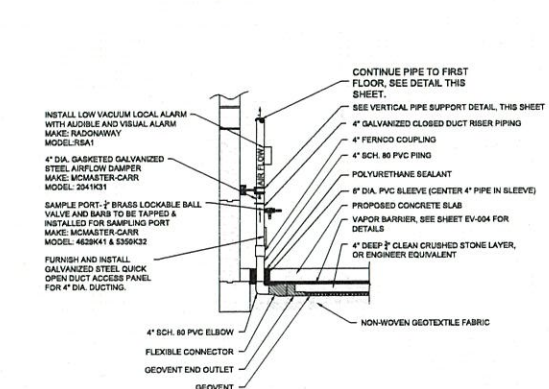
ROOF SSDS & SVE PLAN
 SCALE: 3/16" = 1'



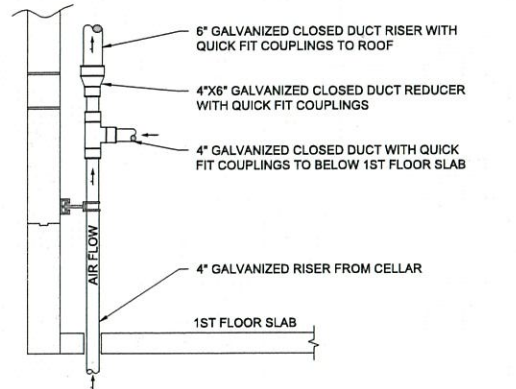
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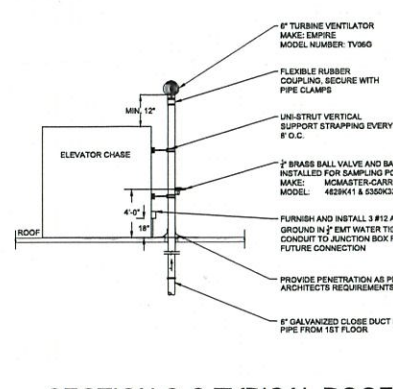
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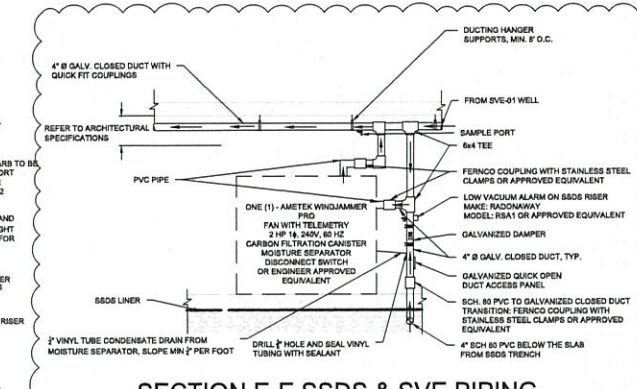
SECTION A-A SUB-SLAB PIPING PENETRATION
SCALE: NOT TO SCALE



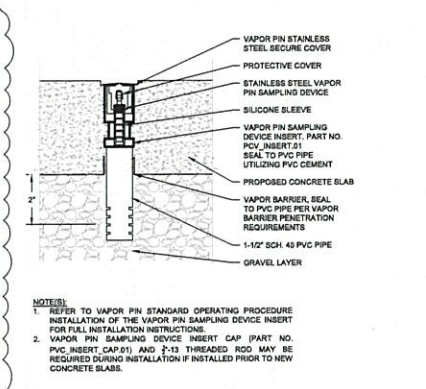
SECTION B-B SUB-SLAB PIPING PENETRATION
SCALE: NOT TO SCALE



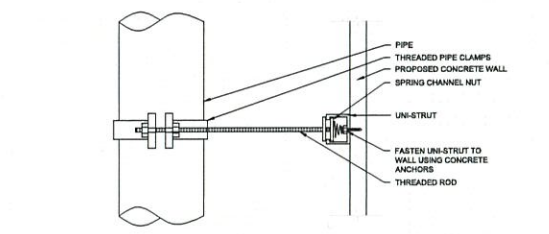
SECTION C-C TYPICAL ROOF PENETRATION/VENTILATOR
SCALE: NOT TO SCALE



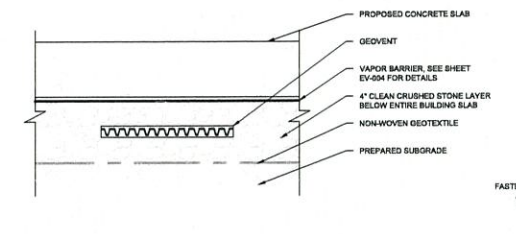
SECTION E-E SSDS & SVE PIPING PENETRATION AND MANIFOLD
SCALE: NOT TO SCALE



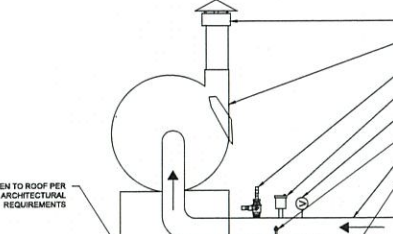
TYPICAL SUB-SLAB MONITORING POINT
SCALE: NOT TO SCALE



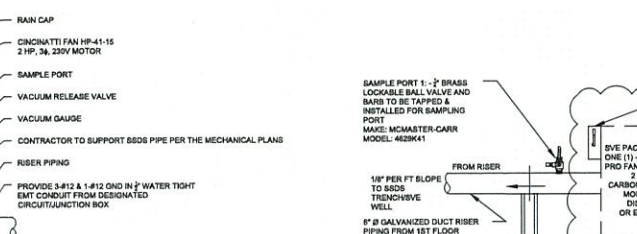
TYPICAL VERTICAL PIPE SUPPORT
SCALE: NOT TO SCALE



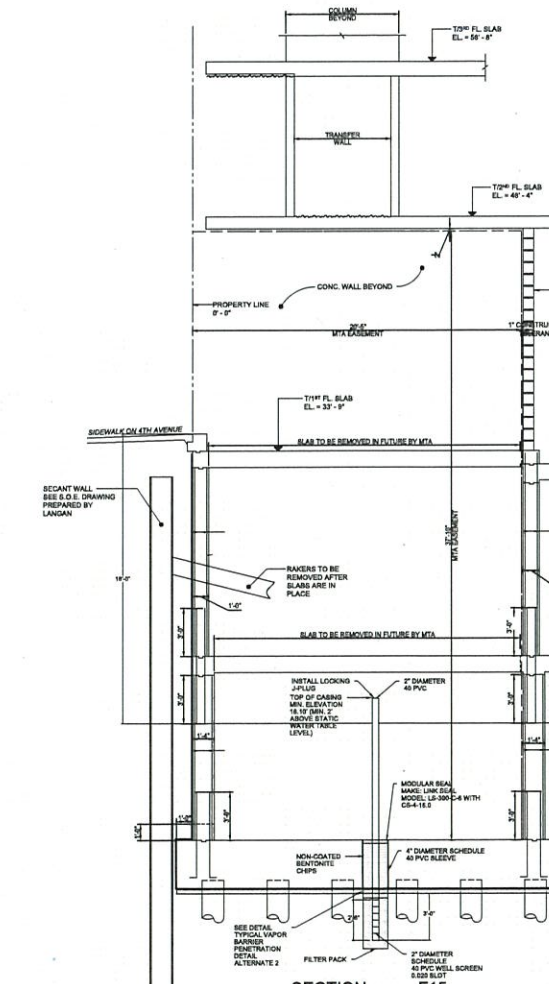
GEOVENT INSTALLATION DETAIL
SCALE: NOT TO SCALE



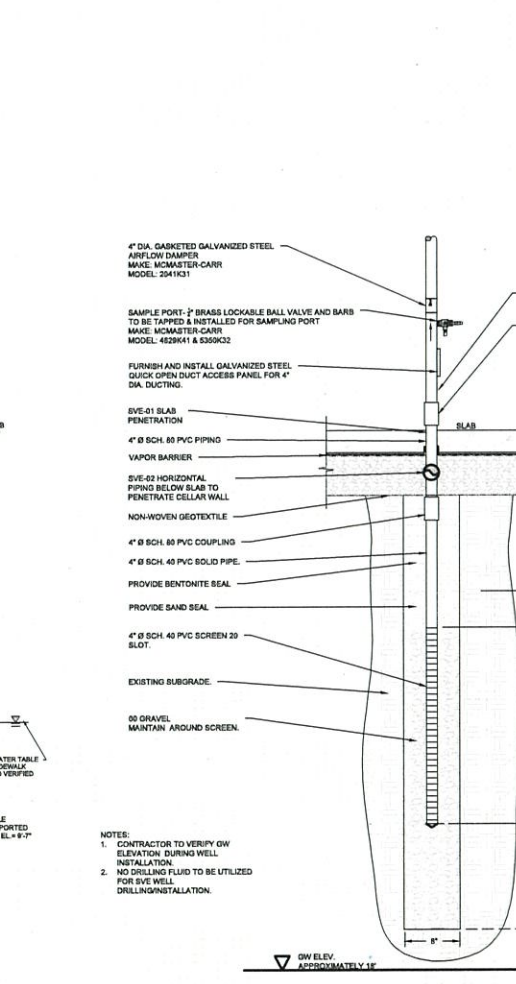
FUTURE SSDS ACTIVE SYSTEM CONVERSION (IF NECESSARY)
SCALE: NOT TO SCALE



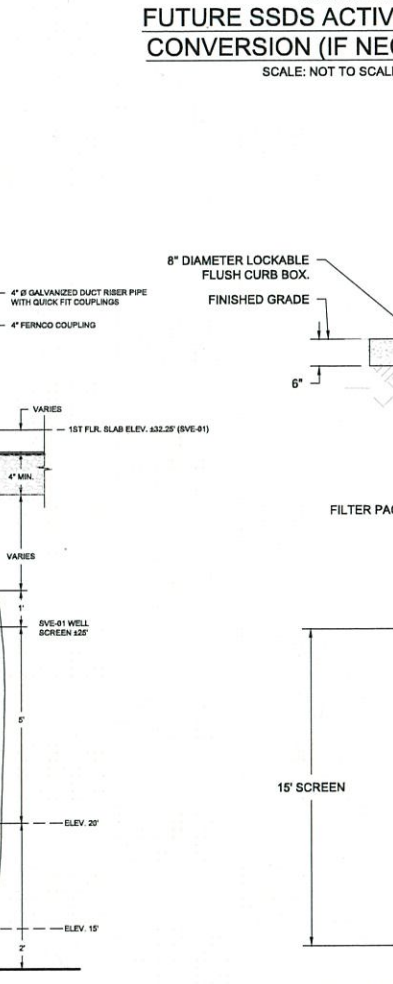
SVE BLOWER PACKAGE DETAIL
SCALE: NOT TO SCALE



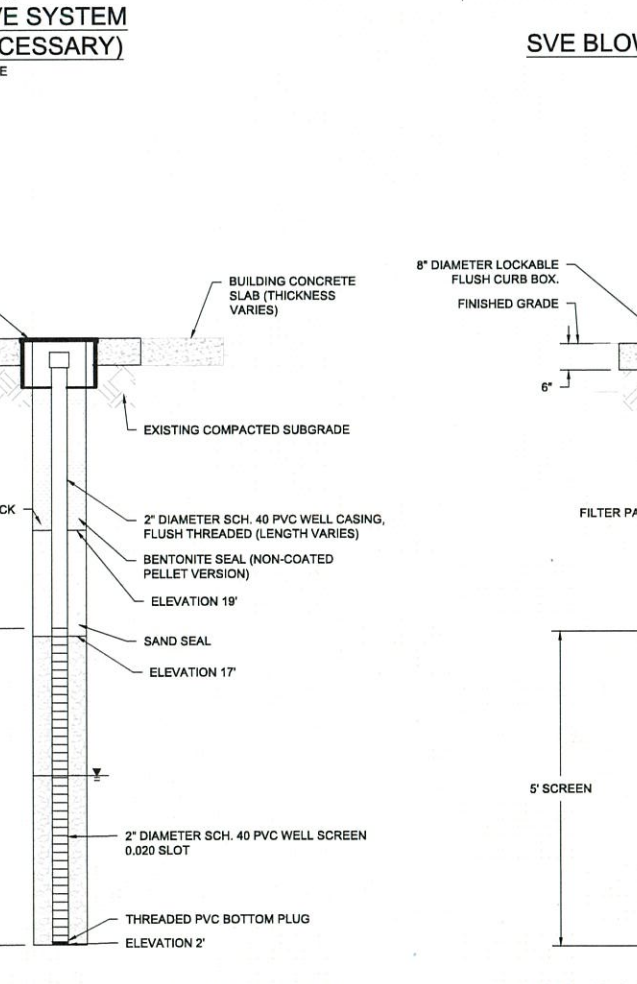
SECTION F-15 TYPICAL MTA WELL DETAIL
SCALE: NOT TO SCALE



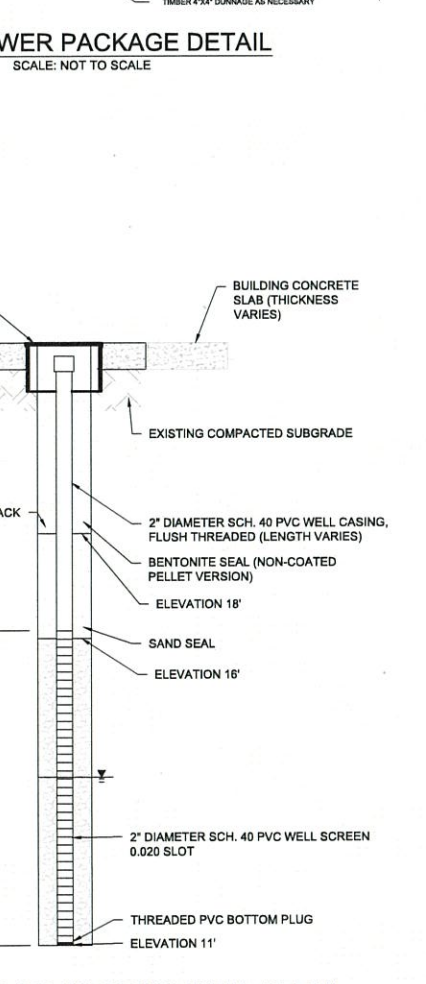
SVE WELL DETAIL
SCALE: NOT TO SCALE



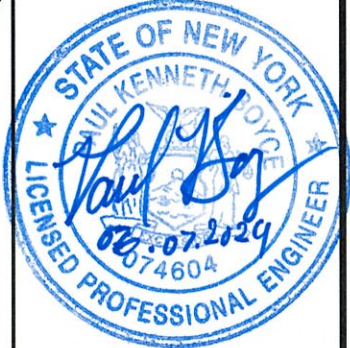
TYPICAL SENTINEL MONITORING WELL DETAIL
SCALE: NOT TO SCALE



TYPICAL ISCO MONITORING WELL DETAIL
SCALE: NOT TO SCALE



VAPOR BARRIER DETAILS
SCALE: NOT TO SCALE



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EXCAVATION PLAN**

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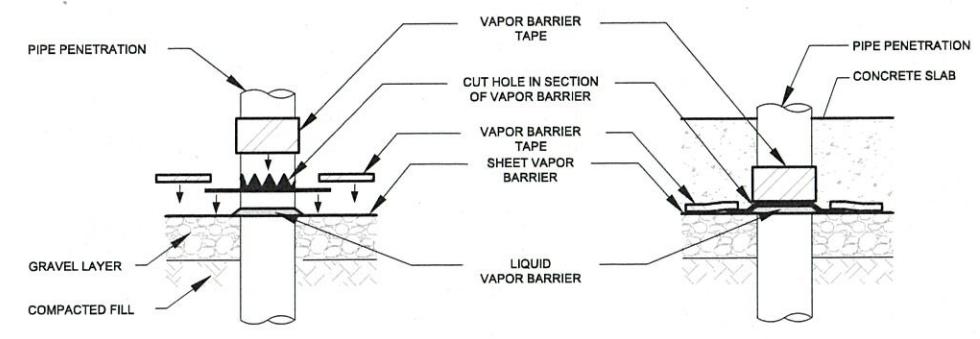
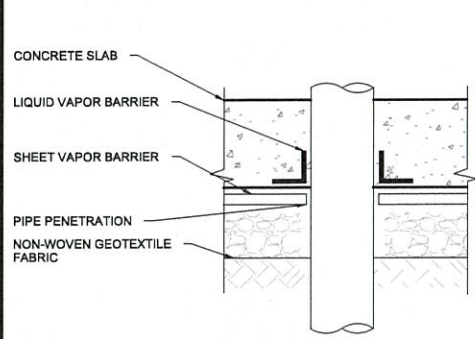
BLOCK 652- LOT 1,7 TOT2101

**VAPOR BARRIER
DETAILS**

EV-004

4 6

TOT2101



NOTE:
PATCH FOR VAPOR BARRIER SHALL OVERLAP
IN PLACE VAPOR BARRIER BY MINIMUM SIX INCHES.

ALTERNATE 1

ALTERNATE 2

TYPICAL VAPOR BARRIER PENETRATION DETAIL
SCALE: NOT TO SCALE

Legend	
Proposed	Notes
VAPOR BARRIER	
	WATER PROOFING
	SHEET VAPOR BARRIER
	LIQUID MEMBRANE VAPOR BARRIER
	NON-WOVEN GEOTEXTILE FABRIC

- NOTES:
- VAPOR BARRIER TO BE GCP PREPRUFE 300R (HORIZONTAL APPLICATIONS) OR 160R (VERTICAL APPLICATIONS) OR ENGINEER APPROVED EQUIVALENT.
 - LIQUID MEMBRANE VAPOR BARRIER TO BE BITUMENOUS LIQUID MEMBRANE MANUFACTURED BY GCP APPLIED TECHNOLOGIES, OR ENGINEER APPROVED EQUIVALENT.
 - VAPOR BARRIER PRODUCTS SHALL BE INSTALLED PER ASTM E1993 - SPECIFICATION FOR BITUMENOUS WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS AND ASTM E1745-11 - STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS AND MEET THE SPECIFICATIONS OF A "CLASS A" VAPOR BARRIER, OR ENGINEER APPROVED EQUIVALENT.
 - WHERE THESE SPECIFICATIONS DIFFER WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL TAKE PRECEDENCE.
 - VAPOR BARRIER INSTALLATIONS SHALL BE INSPECTED BY ENVIRONMENTAL PROFESSIONAL OR ENGINEER PRIOR TO COVERING.
 - MINIMUM VAPOR BARRIER THICKNESS TO BE 20 MILS.
 - ALL DAMAGE, PUNCTURES, AND PENETRATIONS SHALL BE SEALED PER MANUFACTURER'S SPECIFICATIONS.
 - MIN. 3" OVERLAP AT VAPOR BARRIER SEAMS.
 - MIN. 3" OVERLAP AT PLASTIC VAPOR BARRIER AND LIQUID VAPOR BARRIER SEAMS.
 - UTILIZE PREPRUFE TAPE AS NECESSARY AT VAPOR BARRIER END JOINTS AND CUT EDGES.
 - STORE IN DRY CONDITIONS BETWEEN 40°-90°F.
 - PLANS FOR COMPLIANCE WITH ENVIRONMENTAL REGULATIONS ONLY. THEY ARE NOT FOR COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS FOR WARRANTY.

PWGC
CLIENT DRIVEN SOLUTIONS
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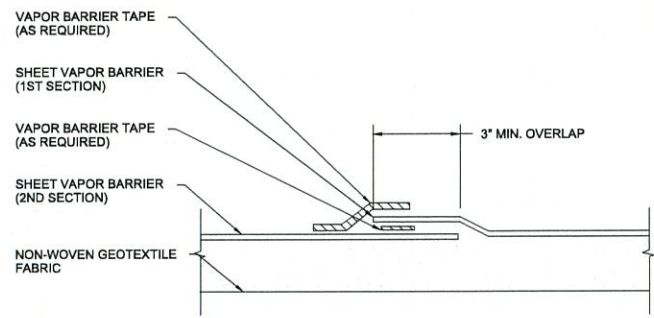
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EXCAVATION PLAN
731-747 4TH AVE.
BROOKLYN, NY
KINGS COUNTY, NEW YORK
BLOCK 652- LOT 1.7 TOT2101

VAPOR BARRIER
DETAILS

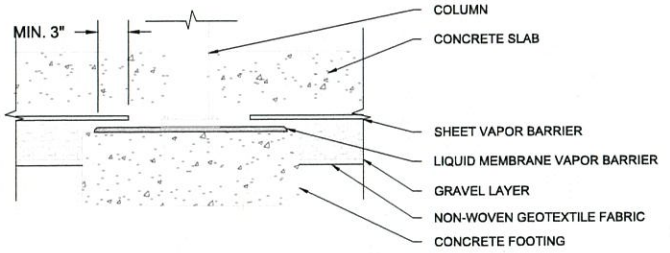
EV-005

5 6

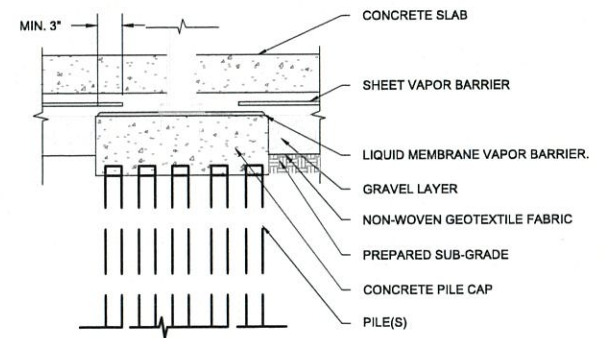
TOT2101



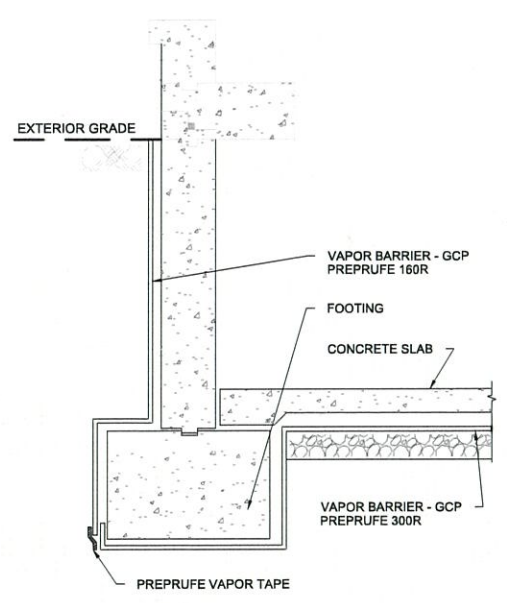
TYPICAL VAPOR BARRIER OVERLAP DETAIL
SCALE: NOT TO SCALE



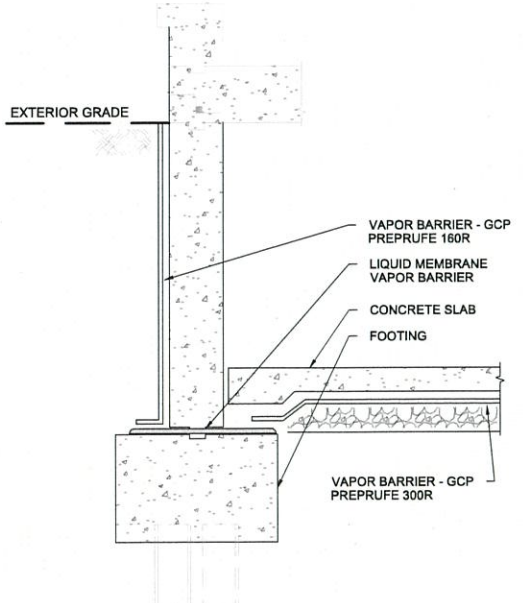
VAPOR BARRIER OVER FOOTING AT COLUMN DETAIL
SCALE: NOT TO SCALE



VAPOR BARRIER OVER PILE CAP DETAIL
SCALE: NOT TO SCALE

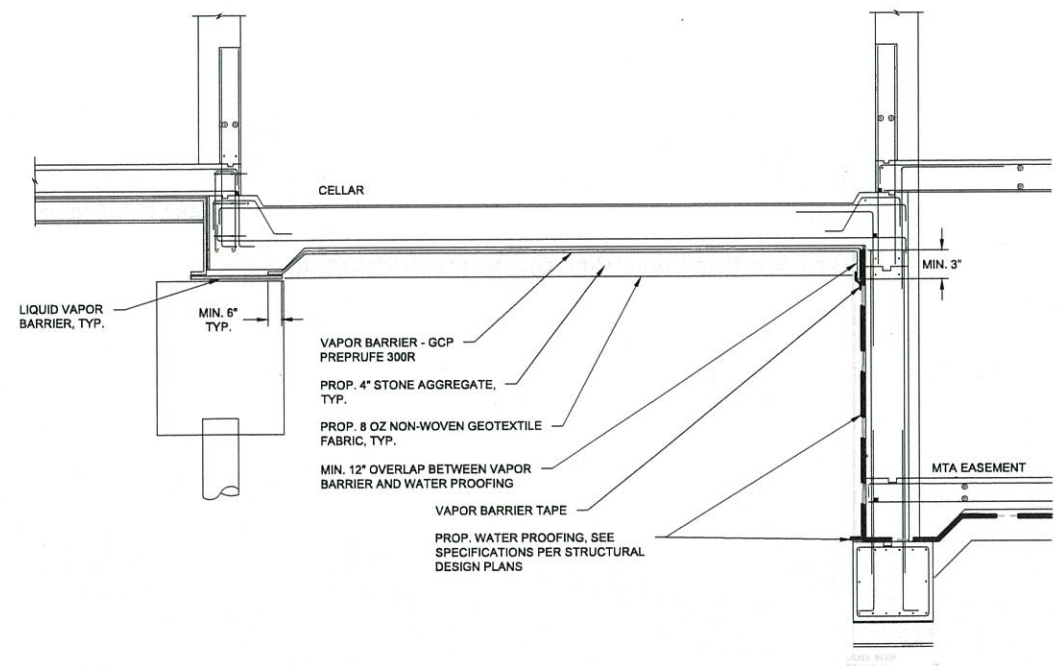


ALTERNATE - 1
SCALE: NOT TO SCALE



ALTERNATE - 2
SCALE: NOT TO SCALE

VAPOR BARRIER AT EXTERIOR FOOTING DETAIL
SCALE: NOT TO SCALE



SECTION D-D
VAPOR BARRIER - WATER PROOFING AT INTERIOR FOOTING DETAIL
SCALE: NOT TO SCALE



PWGC
CLIENT DRIVEN SOLUTIONS

P.W. GROSSER CONSULTING ENGINEER
AND HYDROGEOLOGIST, P.C.

630 Johnson Avenue - Suite 7
Bohemia - NY - 11716-2618
Phone: (631) 589-6353 - Fax: (631) 589-8705
E-mail: INFO@PWGROSSER.COM

CONSULTANTS



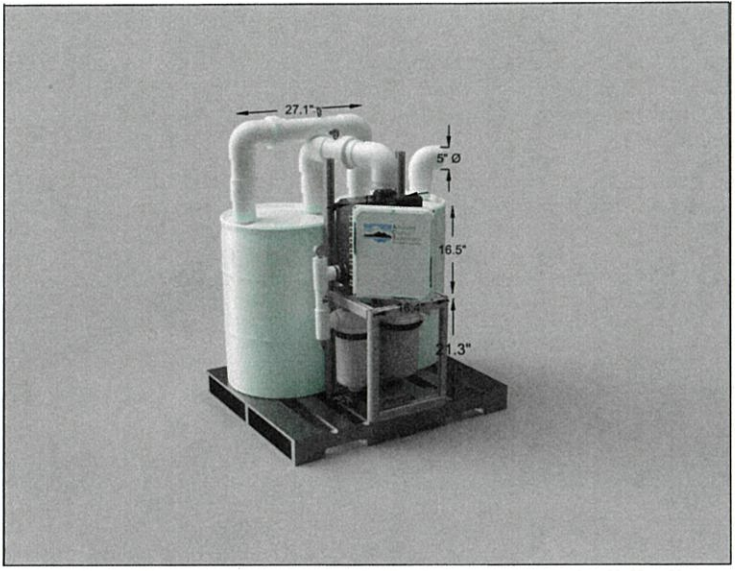
7	ISSUE FOR CONSTRUCTION	01/25/2024
6	ADDED MONITORING WELLS	11/20/2023
5	DEC RESUBMISSION	06/19/2023
4	ISSUED FOR 80% CD	04/25/2023
3	DEC SUBMISSION	03/31/2023
2	ISSUED FOR 70% CD	02/03/2023
1	ISSUED FOR 60% CD	12/02/2022

MS	-
AP	11/03/2022
PKB	AS NOTED

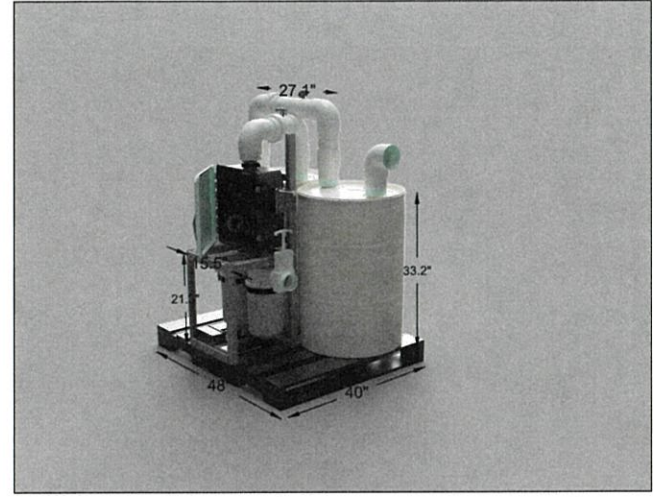
TOT2101
731-747 4TH AVE.
BROOKLYN, NY
EXCAVATION PLAN
731-747 4TH AVE.
BROOKLYN, NY
KINGS COUNTY, NEW YORK
BLOCK 652- LOT 1.7 TOT2101

**SVE SYSTEM
DETAILS**

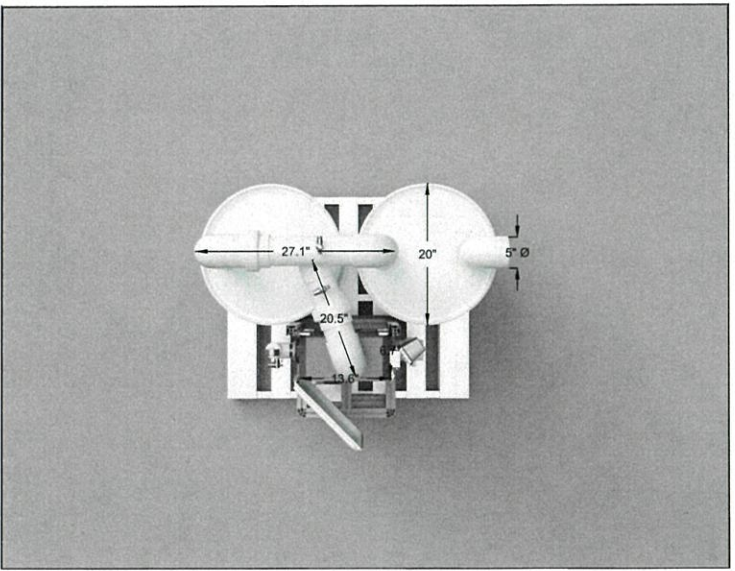
EV-006



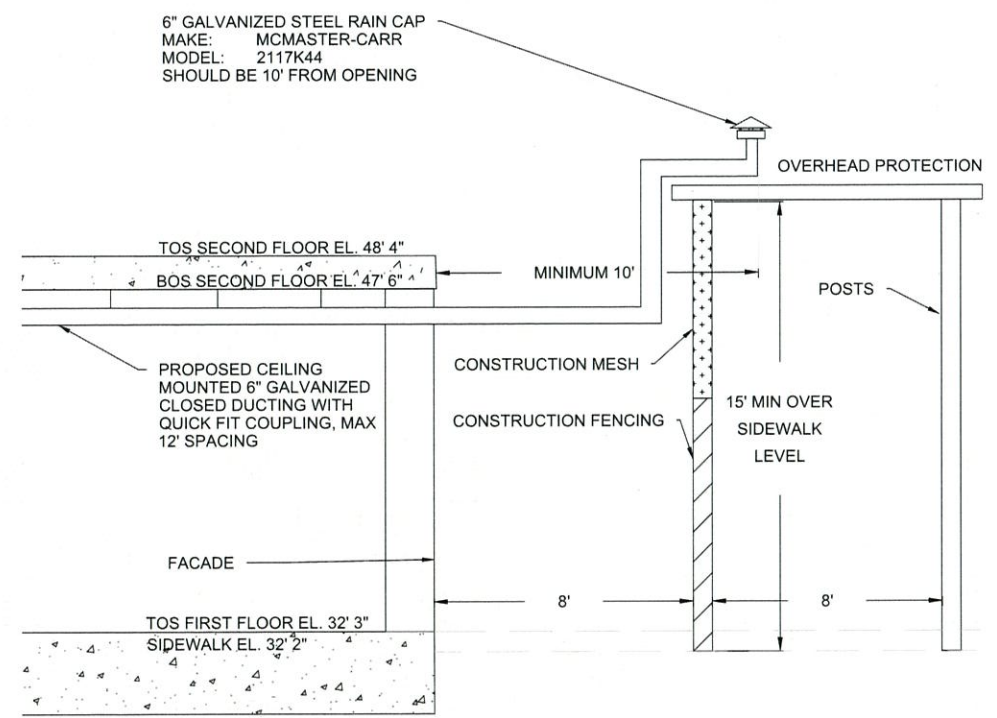
SVE PACKAGE DETAIL
SCALE: NOT TO SCALE



SVE PACKAGE DETAIL
SCALE: NOT TO SCALE



SVE PACKAGE DETAIL
SCALE: NOT TO SCALE



SVE DISCHARGE PIPE DETAIL
SCALE: NOT TO SCALE