



HydroTech Environmental

ENGINEERING AND GEOLOGY, DPC

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Project Name: 10 Jay Street, Brooklyn, NY

OER Project Number: 14EH-N547K

Site Management Reporting Period: August 2020 to June 2021

Inspection Date: June 21, 2021

Inspector: Ruijie Xu

Certifier: Mark Robbins, PG

Report Submittal Date: July 7, 2021

Report Preparer: HydroTech Environmental Engineering and Geology, DPC on behalf of Safdi Management, LLC

Site Inspection and Certification Letter Report

HydroTech Environmental Engineering and Geology, DPC hereby submits a Site Management Inspection and Certification Report for the property located at 10 Jay Street in the Dumbo section of Brooklyn, New York for the reporting period, August 2020 to June 2021, pursuant to the Site Management Plan (SMP) that is included in the OER approved Remedial Action Report (RAR), dated October 2018. The Site is identified as Block 1 and Lot 50 on the New York City Tax Map.

1.0 ENGINEERING CONTROLS

Engineering Controls were employed in the Remedial Action to assure permanent protection of public health by eliminating human exposure to residual materials remaining at the site. The Site has two (2) Engineering Control Systems. Engineering Controls for this property are:

Composite Cover System

Exposure to residual soil/fill is prevented by an engineered, composite cover system that has been built on the Site. This composite cover system is comprised of a concrete building slab, which consists of a 14-inch thick mat slab poured on top of the existing 7-inch thick building

slab. The composite cover also includes paved roads surrounding the building, concrete covered sidewalks, and clean import fill in landscaped areas. The contractor for the cover construction was Clearwater Contracting located at 511 Canal Street, New York, NY 10013.

Active Sub-Slab Depressurization System (SSDS)

Exposure to soil vapor is prevented by an active SSDS that has been installed at the site. The active pit-type SSDS was installed starting in January 2017 and installation was completed in January of 2018. The SSDS consists of two (2) sub-slab suction pits installed beneath the cellar slab, in the eastern and western portions of the cellar. Each SSDS pit consists of a 4-inch diameter boring installed through the 21-inch thick reinforced concrete slab. Each SSDS suction pit measures two (2) feet by two (2) feet in area and extends two (2) feet below the bottom of the new building slab. Each suction pit contains a 4-inch diameter perforated schedule 40 PVC pipe and is backfilled with clean Pavestone® brand crushed bluestone. The perforated PVC pipes are connected to 4-inch solid PVC risers which converge into a fire rated enclosure (shaft) that extends from the basement level up to the roof. Each riser (total of two) is outfitted with a blower fan (RadonAway GP501). Each vent pipe contains its own vacuum gauge and flow control alarm located in a secure SSDS equipment area located in the vicinity of the fire rated enclosure in the cellar. The roof exhaust is situated a minimum of 10 feet from all air intakes, and all visible SSDS piping is labeled "Soil Vapor Venting System - Do Not Tamper with or Disturb". The vent on the roof line terminates with a goose-neck pipe to prevent rain infiltration.

In addition to the two suction pits and associated piping, fans, and alarms and gauges, the SSDS also includes a total of six pressure probes. Three pressure probes were installed around each suction pit at 5-, 10-, and 15-foot radiuses around each suction pit located in the southwest and southeast portions of the cellar. Installation of the pressure probes was completed in January of 2018, marking the completion of the SSDS installation. Pressure probes were installed to a depth of approximately 6-inches below the bottom of the concrete building slab and consist of a stainless-steel implant fitted with inert, laboratory quality 1/4-inch tubing to the concrete slab surface. The pressure probes are backfilled with glass beads and clean sand and are sealed with a bentonite slurry and concrete. Pressure probes are outfitted with a plastic ball valve to seal ports when not in use. The SSDS exhaust vents were installed adjacent to the Post-Fire Smoke Purge Exhaust Duct Riser and are located a minimum of ten feet away from

operable windows and mechanical equipment air intake vents. The SSDS was installed by Enviro Drilling and Contracting, Inc. located at 77 Arkay Drive, Suite K, Hauppauge, New York. **Attachment 1** includes as-built plans of the active SSDS.

At the visit on June 21, 2021, pressure probe #5 cannot be located and may have been destroyed during the construction or covered by heavy equipment. Therefore, pressure readings can only be collected from the remaining five pressure probes.

2.0 INSTITUTIONAL CONTROLS

A series of Institutional Controls are required under the Remedial Action to assure permanent protection of public health by eliminating human exposure to residual materials remaining at the site. The Institutional Controls for the Remedial Action are:

- (1) The property will continue to be registered with an E-Designation by the NYC Department of Buildings. Property owner and property owner's successors and assigns are required to comply with the approved SMP;
- (2) Compliance with an OER-approved Site Management Plan including procedures for appropriate operation, maintenance, inspection, and certification of performance of EC's and IC's. The property owner and property owner's successors and assigns will inspect EC's and IC's and submit to OER a written certification that evaluates their performance in a manner and at a frequency to be determined by OER;
- (3) Engineering Controls will not be discontinued without prior OER approval;
- (4) OER has the right to enter the Site upon notice for the purpose of evaluating the performance of EC's and IC's;
- (5) Vegetable gardens and farming in residual soil/fill on the Site are prohibited;
- (6) Use of groundwater underlying the Site without treatment rendering it safe for its intended use is prohibited;
- (7) All future activities on the Site that will disturb residual soil/fill must be conducted pursuant to the Soil/Materials Management provisions of the SMP, or otherwise approved by OER;
- (8) The Site is intended to be used for restricted residential use and will not be used for a higher level of use without prior approval by OER.

3.0 INSPECTION NARRATIVE

The annual site inspection for reporting period August 2020 to June 2021 was performed by Ms. Ruijie Xu of HydroTech Environmental Engineering and Geology, DPC on June 21, 2021.

Accessible portions of the composite cover system were visually inspected during the site inspection. The composite cover system at the Site appears to be in sound condition. No cracks were observed in the concrete slab in the basement.

Any potential impact associated with potential vapors seeping into subgrade basement at the Site is mitigated by the active SSDS. Visual observation of the active SSDS indicates that the suction fans are working properly. The alarms were tested and confirmed to be in working in audible condition. The magnehelic readings of the two pressure gauges located in the central portion of the basement are 3.0 inches of H₂O for SSDS #2 and 2.5 inches of H₂O for SSDS #1. Differential pressure readings were obtained from each of the pressure probes designated as pressure probe #1 through pressure probe #6 except pressure probe #5. Pressure probe #1 indicated negative pressure of -0.07 inches of H₂O, pressure probe #2 indicated negative pressure of -0.05 inches of H₂O, pressure probe #3 and pressure probe #6 indicated negative pressure of -0.01 inches of H₂O and pressure probe #4 indicated negative pressure of -0.02 inches of H₂O. Pressure probe #5 could not be located due to obstruction by material storage in the mechanical room and hence, no pressure reading was obtained from this pressure probe. However, based on the negative pressure readings of the other pressure probes indicates that there is communication across the slab in the vicinity of the SSDS pits and verifies proper functioning of the system.

The building management team has been reminded to submit formal documentation for the monthly inspections of the ECs. Based upon our site inspection, the ECs present appear to be in sound condition and functioning properly. The Site is protective to human health and the environmental. **Attachment #2** provides photographs of inspected building slab and SSDS equipment. **Attachment #3** provides the annual inspection checklist.

STATUS OF ENGINEERING AND INSTITUTIONAL CONTROLS

- Are the Engineering Controls and Institutional Controls employed at the Site continuing to perform as designed and continuing to be protective of human health and the environment?

Response: Yes

- Has anything occurred that impairs the ability of the Engineering Controls or Institutional Controls to protect public health and the environment?

Response: No

- Are any changes needed to the remedial systems or controls?

Response: No

- Has compliance with this SMP been maintained during this reporting period?

Response: No, monthly reports are not available

- Are site records complete and up to date?

Response: No, monthly reports are not available

- Have monthly SSDS inspections by building superintendents been performed, certified on inspection checklists, and maintained on file on site?

Response: No

4.0 DEVIATIONS IN PERFORMANCE OF ENGINEERING AND INSTITUTIONAL CONTROLS

No deviations in the performance of Engineering and Institutional Controls as described in the SMP were noted or anticipated during the current inspections of Site remedies in association with the SSDS or composite cover.

5.0 NEXT INSPECTION

The next Site Management Inspection will be performed in July 2022, and the Site Inspection and Certification Letter Report will be submitted by July 31, 2022.

6.0 CERTIFICATION

I, Mark E. Robbins, certify the following:

- I am a Qualified Environmental Professional;
- The inspection at 10 Jay Street, OER project number 14EH-N547K was performed on June 21, 2021 under my direct supervision;
- I prepared this Site Inspection and Certification Letter Report;
- Engineering Controls or Institutional Controls employed at the Site continue to be in place and perform as designed and continue to be protective of human health and the environment;
- Activities on the Site that have disturbed residual soil/fill material have been in accordance with the Soil/Materials Management Plan in the SMP;
- No changes are needed to the remedial systems or engineering controls;
- Compliance with the Site Management Plan has been maintained;
- Vegetable gardening and farming in residual soils has been prevented;
- Groundwater underlying the Site is not being utilized without treatment rendering it safe for the intended purpose has been prevented;

- The Site has not been used for a higher level of use other than the restricted residential use addressed by the Remedial Action;
- The Site continues to be registered as an E-Designated property by the NYC Department of Buildings;

QEP Name Mark E. Robbins, PG

QEP Signature 

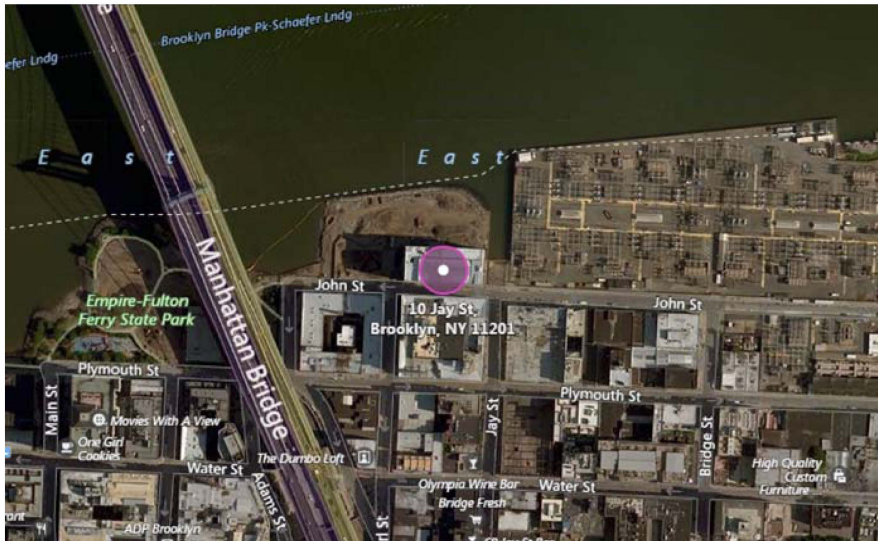
Date July 7, 2021

AS-BUILT DRAWINGS

SUB SLAB DEPRESSURIZATION SYSTEM

10 JAY STREET, BROOKLYN, NY

APRIL 2018



1. COVER SHEET WITH SITE LOCATION MAP
2. CELLAR PLAN
3. ROOF PLAN
4. DETAILS
5. NOTES



[Signature]

4/30/2018



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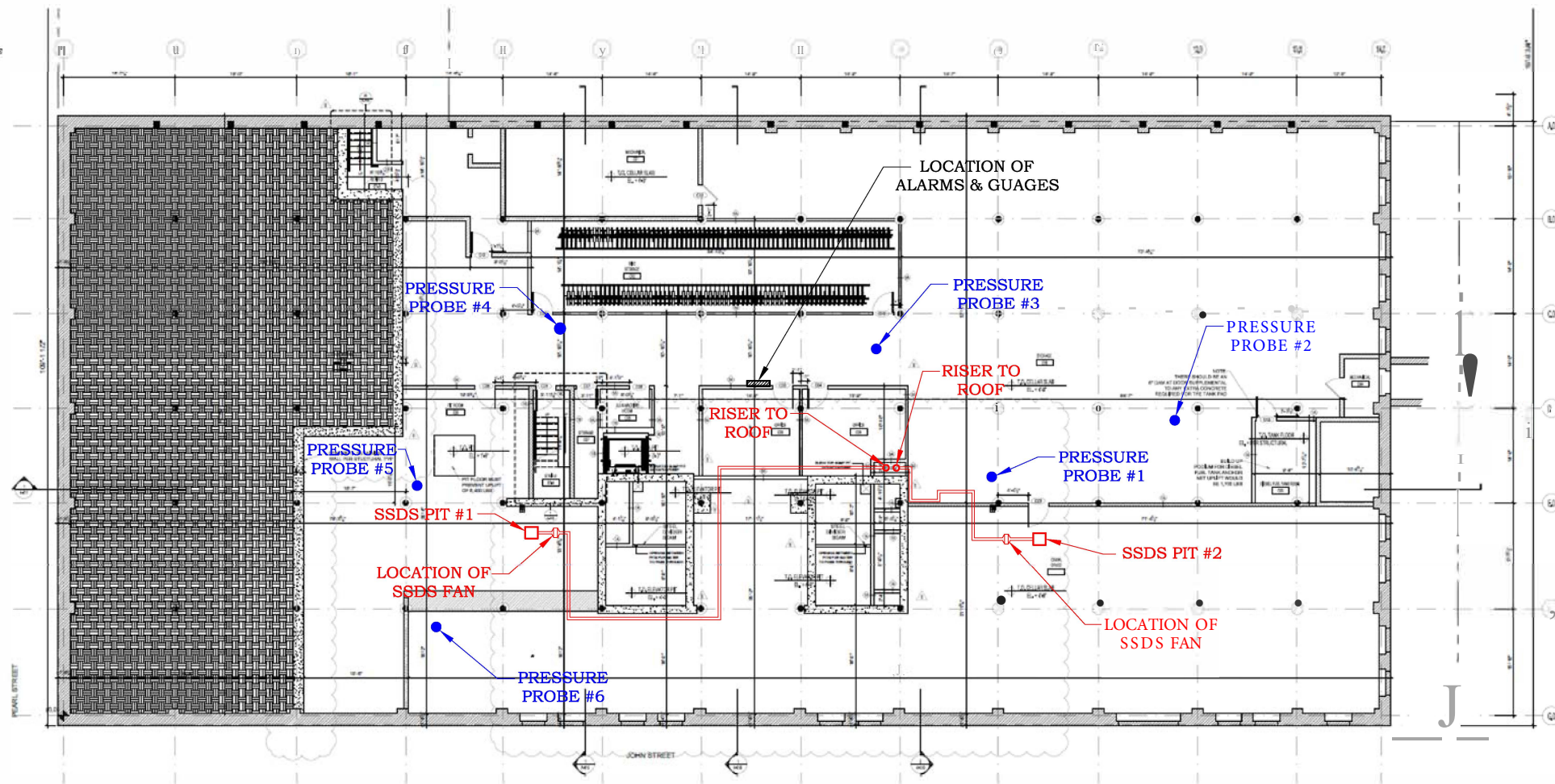
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Approved By: ...M.J.L....
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TITLE:





SITE LOCATION MAP

BASE DRAWINGS FROM:

SHEET 1 OF 5



LEGEND:

-  SSDS PIT (24" X 24" X 24")
-  SSDS PIPING (4" PVC)
-  PRESSURE PROBE LOCATION
-  SSDS RISER PIPE LOCATION



 4/30/2018



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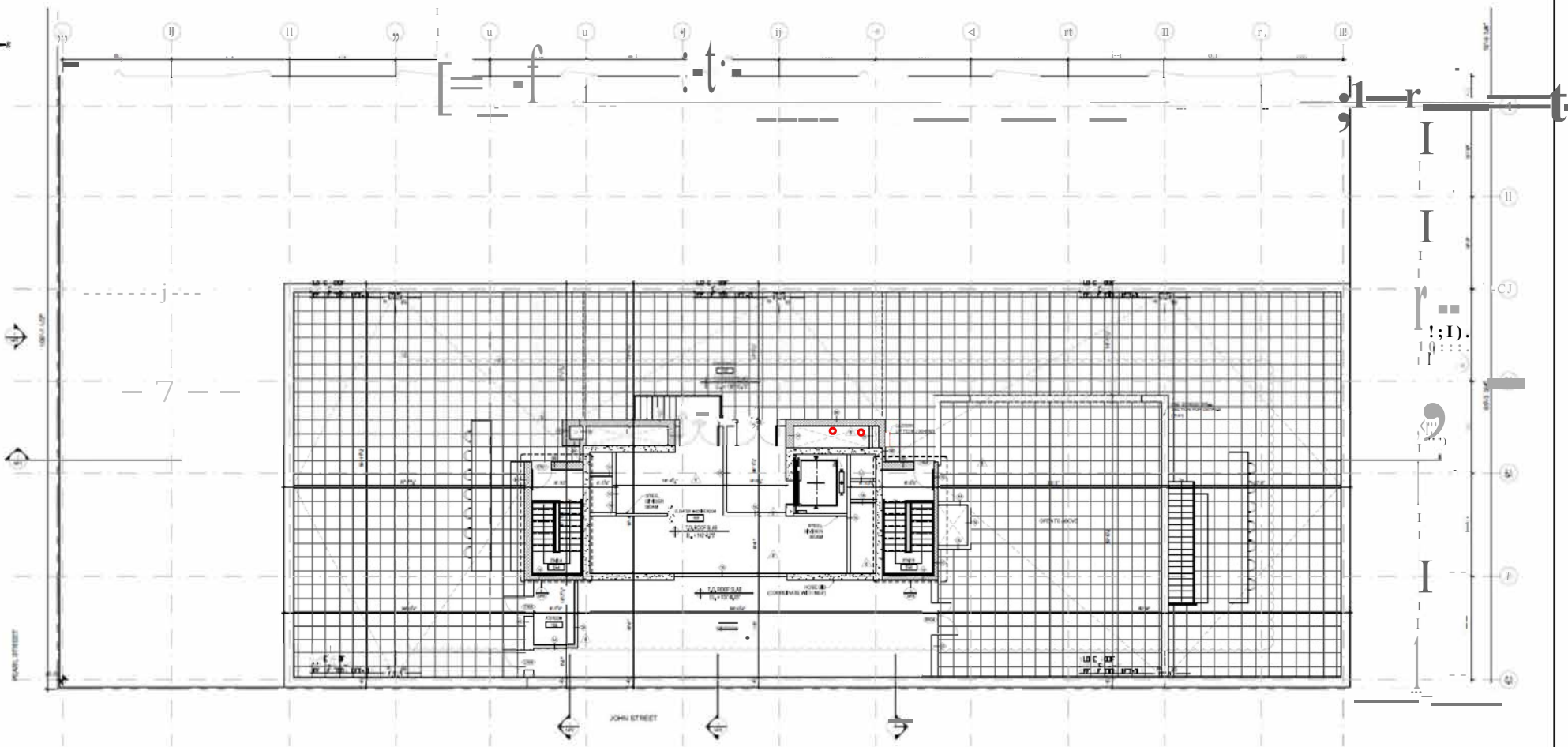
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CELLAR PLAN
(N.T.S)

BASE DRAWINGS FROM:
Office for Design & Architecture
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SHEET 2 OF 5



LEGEND:

- 0 LOCATION OF RISER PENETRATION ON ROOF



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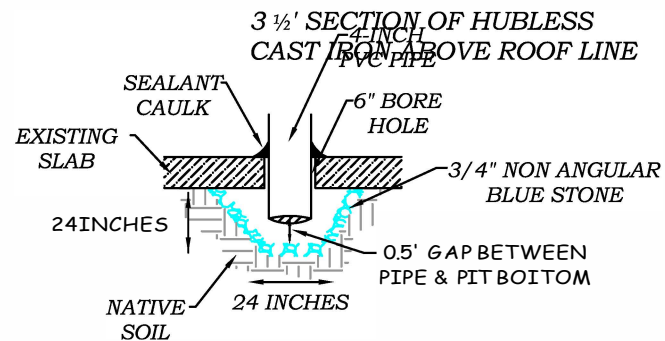
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Scale: AS NOTED

TITLE:

ROOF PLAN
(N.T.S)

BASE DRAWINGS FROM:
Office for Design & Architecture
494 Broadway 3rd FL
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SHEET 3 OF 5



SECTION DETAIL OF SUCTION PIT

LABEL IS 2'X4" AND READABLE AT 3 FEET FROM PIPE. LABEL IS PERMANENTLY AFFIXED TO RISER PIPE EVERY 5 FEET, ON EACH FLOOR AND ABOVE ROOF.

CAUTION

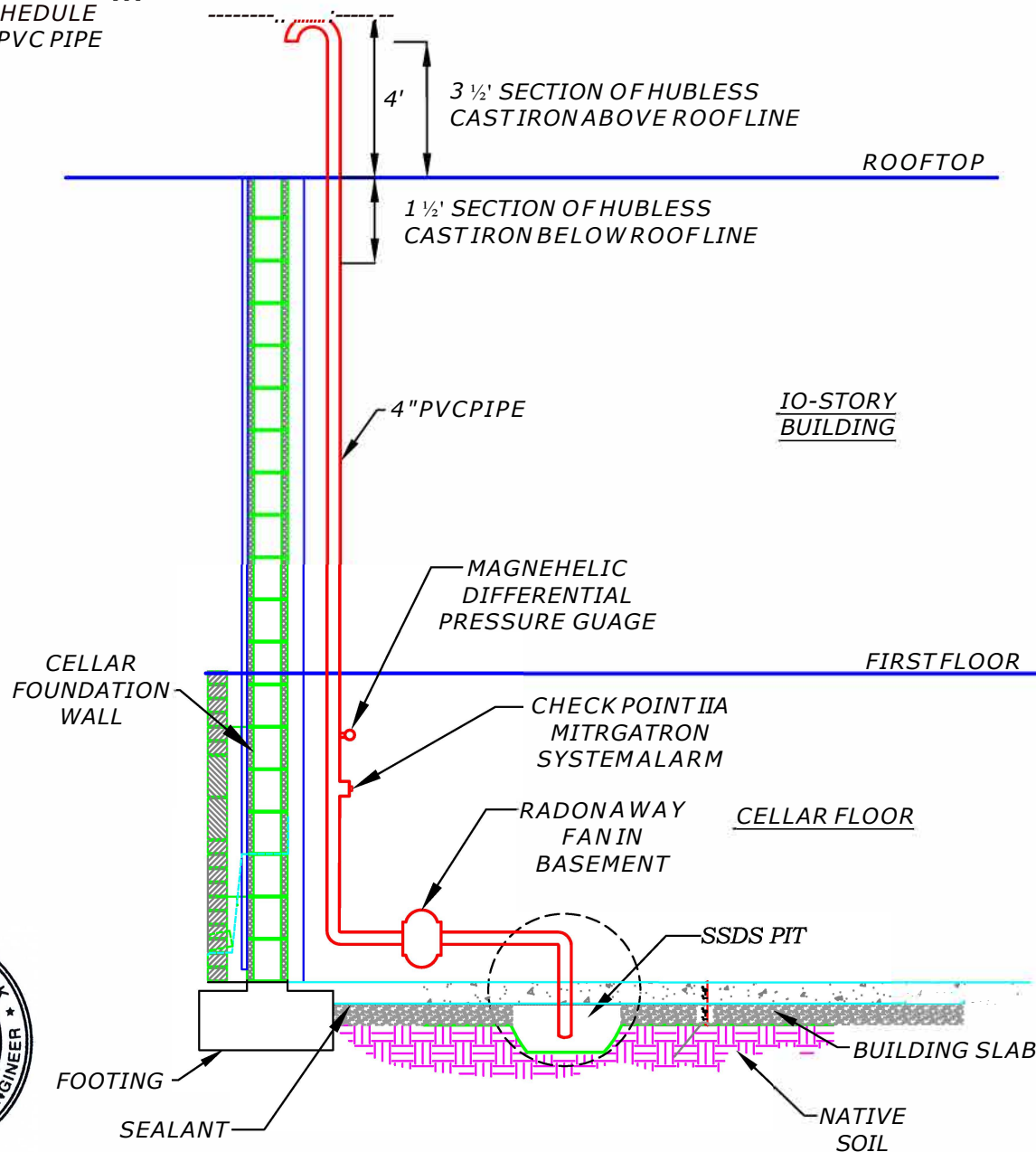
SOIL VAPOR VENTING SYSTEM
DO NOT TAMPER WITH OR DISTRUB

TYPICAL LABEL DETAIL



4/30/2018

GOOSE NECK
SCHEDULE
40 PVC PIPE



ELEVATION VIEW OF SUCTION PIT



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TITLE:

DETAILS
(N.T.S)

BASE DRAWINGS FROM:

SHEET 4 OF 5

NOTE:

- 1 FLOOR SLAB, GRAVEL AND COMPACTION PER SPECIFICATION BY OTHERS.
- 2 PVC PIPE WAS SCHEDULE 40. PVC PIPE CONNECTION WAS GLUED OR THREADED AND CERTIFIED LEAK-FREE BY CONTRACTOR. WELL SCREEN WAS CLEAR AFTER INSTALLATION. PERFORMED PRESSURE TEST ON SOLID PVC HEADER FROM SYSTEM EQUIPMENT TO WELL SCREEN.
- 3 ROOF VENT WAS A MINIMUM OF 10 FEET FROM ALL OPERABLE WINDOWS AND 25 FEET FROM PROPERTY LINE AND TERMINATES 4 FEET ABOVE ROOF LINE.
- 4 4 FOOT ROOF RISER WAS CAST IRON AND INTERIOR RISER PIPING WAS SCHEDULE 40 PVC APPROVED BY ENGINEER AND ALL APPLICABLE REGULATORY AGENCIES.
- 5 DETAIL DEPICTS LOCATION OF SSDS FAN EQUIPMENT WHICH WAS PLACED INSIDE BUILDING PER A/E DETERMINATION.
- 6 INSTALLATION OF THE SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) WAS COORDINATED WITH THE INSTALLATION OF OTHER UTILITIES AND STRUCTURAL COMPONENTS.
- 7 RISER PIPES WERE EXTENDED TO THE ROOF WITH MINIMAL CHANGES IN DIRECTION
- 8 ALL PIPE AND CONDUIT PENETRATIONS THROUGH THE SLAB (INCLUDING ALL TRADES), WERE SEALED WITH PRE-APPROVED MASTIC SEALANT.
- 9 CONTRACTOR PROVIDED ALL SPECIFICATIONS AND CUT SHEETS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 10 SSDS EQUIPMENT WAS CONNECTED TO CONTROL BOX SUPPLIED BY CONTRACTOR. CONTROLS SHALL INCLUDE
1) START/STOP 2) EMERGENCY STOP
- 11 PRESSURE TESTING - A SMALLER (1/4") PILOT HOLE WAS DRILLED THROUGH THE EXISTING CONCRETE FLOOR SLAB INTO THE GRAVEL BASE LAYER. A MANOMETER WAS USED TO ANALYZE THE PRESSURE BENEATH THE SLAB AT THE PILOT HOLE LOCATION. PERMANENT MANHOLE COVERS WERE INSTALLED AT EACH TEST LOCATION (TOTAL OF 6) A NEGATIVE PRESSURE READING HAS INDICATED THE INFLUENCE OF THE SSDS SYSTEM AT EACH PROBE LOCATION AND CONFIRMED COMMUNICATION FROM THE SSDS PIT TO THE PROBE LOCATION.

SSDS SPECIFIC NOTES:

- 1 GOOSENECK BENDS WERE SLOPED SO ANY CONDENSATE DRAINS TOWARD THE SUB-SURFACE
- 2 THE FANS WERE HAND-WIRED AND AN ELECTRIC OUTLET WAS PLACED IN THE VICINITY OF EACH FAN TO POWER ALARMS AND GAUGES.



[Handwritten Signature]

4/30/2018

GENERAL NOTES:

- 1 THE WORK DEPICTED ON THESE DRAWINGS WAS PERFORMED BY AN EXPERIENCED CONTRACTOR WHO HAS WORKING KNOWLEDGE OF APPLICABLE CODE STANDARDS AND INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. NOT EVERY CONDITION OR ELEMENT IS OR CAN BE EXPLICITLY SHOWN ON THESE DRAWINGS.
- 2 THE CONTRACTOR CONFERRED WITH AND SOUGHT THE APPROVAL OF THE ENGINEER FOR THE FINAL LOCATIONS OF ALL VENTING SYSTEM COMPONENTS.
- 3 THE VENTING SYSTEM IS IN COMPLIANCE WITH NEW YORK CITY MECHANICAL CODE, CHAPTER 5 SECTION MC-512 SUB SLAB EXHAUST SYSTEMS.
- 4 VERTICAL PIPING RUNS WERE MARKED "SOIL VAPOR VENTING SYSTEM-DO NOT TAMPER WITH OR DISTURB". THE LABELS ARE EASILY READ WITHIN 3 FEET.
- 5 A/E HAS EVALUATED RISER LOCATION TO ROOF WITH ENGINEER. RISER WAS SCHEDULE 40 PVC PLACED ALONG VERTICAL PIPING RUN, INSIDE MECHANICAL SHAFT.

CONTRACTOR NOTES:

- 1 THE CONTRACTOR HAS FURNISHED ALL LABOR, MATERIAL, EQUIPMENT, SUPPLIES AND INCIDENTALS REQUIRED FOR THE INSTALLATION OF THE SYSTEM AS SHOWN ON THE DRAWINGS. THE WORK INCLUDED BUT WAS NOT LIMITED TO THE FOLLOWING: INSTALLATION IN BASEMENT, ASSOCIATED PIPING, MECHANICAL OR ELECTRICAL APPURTENANCES IN THEIR ENTIRETY, FAN INSTALLATION, GROUTING AND RESTORATION TO EXISTING CONDITIONS AND IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. FINAL RESTORATION OF ALL DISTURBANCES TO EXISTING CONDITIONS.
- 2 THE CONTRACTOR WAS REQUIRED TO CONFORM TO ALL APPLICABLE FEDERAL, STATE AND NEW YORK CITY REQUIREMENTS.
- 3 THE CONTRACTOR WAS RESPONSIBLE TO COMPLY WITH ALL SUCH RULES AND REGULATIONS CONCERNING EMISSIONS AND DISPOSAL OF SOLIDS AND OTHER MATERIALS GENERATED BY THE WORK. CONTAINMENT, HANDLING AND DISPOSAL OF MATERIALS, AND MEANS AND METHODS EMPLOYED BY THE CONTRACTOR WERE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4 COMPLIANCE ASSURANCE WAS THE RESPONSIBILITY OF THE CONTRACTOR. COMMUNICATION BETWEEN CONTRACTOR AND GOVERNING AUTHORITIES, REGULATORY AGENCIES AND SIMILAR ENTITIES, WAS COORDINATED THROUGH THE OWNER.
- 5 ALL PERMITS, BONDS, EASEMENTS OR LICENSES REQUIRED TO PERFORM THE WORK WERE OBTAINED BY THE CONTRACTOR.
- 6 THE CONTRACTOR COORDINATED WITH THE OWNER TO ENSURE ALL PERMITS WERE IN PLACE PRIOR TO THE CONTRACTOR STARTING WORK.

SUBMITTALS:

- 1 THE CONTRACTOR SUBMITTED THE FOLLOWING ITEMS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK:
A. METHODS OF PIPING INSTALLATION, FAN INSTALLATION AND ALL ACCESSORY INSTALLATION.
B. METHODS, EQUIPMENT AND SEQUENCE OF OPERATIONS

CONTRACTOR NOTES:

- 1 WHERE CAST IRON WAS USED HUBLESS CAST IRON PIPE AND FITTINGS WERE MANUFACTURED FROM GRAY CAST IRON AND CONFORM TO ASTM A 888 AND CISPI STANDARD 301. THE CHARLOTTE PIPE AND FOUNDRY COMPANY HUBLESS CAST IRON SOIL PIPE WAS SPECIFIED, OR APPROVED EQUIVALENT. ALL PIPING WAS 4" DIAMETER UNLESS OTHERWISE NOTED.
- 2 SCHEDULE 40 PVC RISER WAS SECURED TO BUILDING USING STEEL TIE BACK SECURING STRAPS AT 12" VERTICAL LEVELS.
- 3 ONLY ONE SSDS FAN WAS INSTALLED PER LINE, THE FAN USED WAS A "RADONA WAY GP 501".

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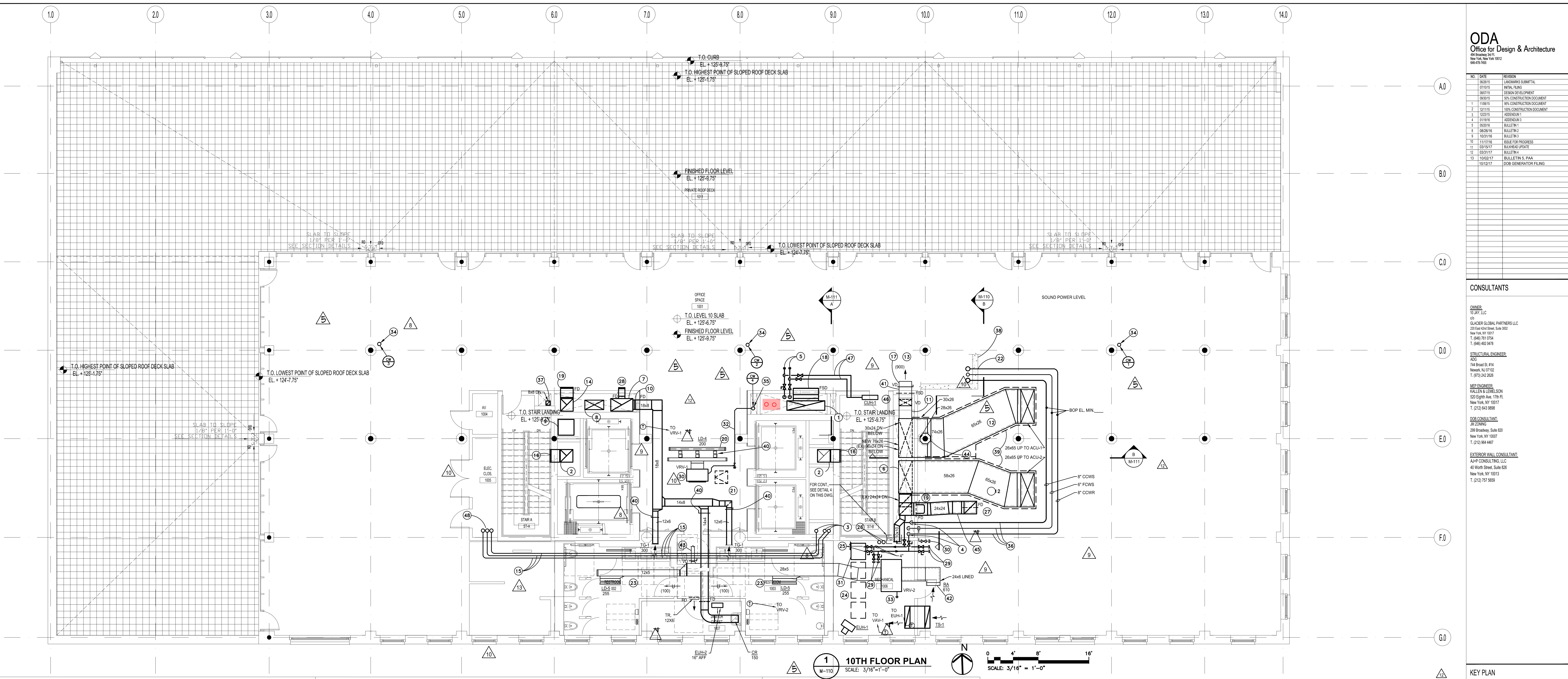
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 Scale: AS NOTED

TITLE:

NOTES

BASE DRAWINGS FROM:



Legend

Location of SSDS Riser Exhaust on the Roof

KEY NOTES:

- 8" CCWSR, 8" FCWS UP TO PUMP ROOM CEILING
- PUMP ROOM FLOOR, EL. 137'-0.75"
- ROOF SLAB, EL. 147'-0.75"
- SEAL AROUND PIPE PENETRATIONS AIR AND WATER TIGHT
- 4" CONCRETE HOUSEKEEPING PAD
- CONCRETE INERTIA BASE
- PUMP
- PIPE SUPPORT FROM FLOOR SLAB, TYPICAL

2 SECTION B

M-110 SCALE: 3/8"=1'-0"

3 SECTION A

M-110 SCALE: 3/8"=1'-0"

KEY NOTES:

- 2" INTERNALLY LINED DUCTWORK AT 10TH FLOOR CEILING
- SUPPLY AIR DUCTWORK IN SHAFT BEYOND
- 2 HOUR FIRE RATED/ACOUSTIC ENCLOSURE FROM DUCT SHAFT TO ROOF OPENINGS
- ROOF STRUCTURE
- PIPING DOWN IN SHAFT (TYP. FOR 3)
- GENERAL EXHAUST DUCT IN SHAFT BEYOND
- 2" INSULATED EXHAUST DUCT TO GE-2 ON ROOF
- 22x10 GENERAL EXHAUST DUCT STUB-OUT FOR 10TH FLOOR, BOO EL. 134'-2"
- SHAFT WALL BEYOND
- PREVIOUSLY INSTALLED DUCT, 96x24
- NEW DUCT, SEE RISER DIAGRAM DWG. M-300.00
- EQUIPMENT SCREEN
- 24x12 VENTILATION SUPPLY DUCT WITH 2" LINING, PROVIDE VD AND SET FOR 800 CFM INITIAL FLOW.
- ROOF DRAIN AND PIPING TO LOWER ROOF COORDINATE PIPING LOCATIONS WITH PC
- APPROXIMATELY TOP OF PREVIOUSLY INSTALLED DUCT RISERS
- 24x24" RISER TO GENERAL EXHAUST FAN GE-2 ON ROOF, SEE M-110.00
- PROVIDE VOLUME DAMPER ACCESS DOOR IN RATED SHAFT EAST WALL
- PIPING IN PUMP ROOM BEYOND
- 6" NATURAL GAS

4 GE-2 EXHAUST RISER MER EXHAUST VAV PLAN DETAIL

M-110 SCALE: 3/8"=1'-0"

KEY NOTES:

- VAV-1 WITH WVM ON INLET
- CONTROL PANEL ON BOTTOM OF UNIT. MAINTAIN 3'-0" CLEAR TO OBSTRUCTION.
- BELLMOUTH.
- TO GE-2 EXHAUST RISER.
- 535 CFM FLOORS 3, 5, 6, 8 & 9 600 CFM FLOORS 4 & 7
- SHAFT WALL.
- COORDINATE LOCATION & ELEVATION WITH PIPING.
- WALL MOUNTED SPACE COOLING THERMOSTAT, ADJ. RANGE TO 105 DEGREES. VAV BOX MODULATES OPEN ON RISE IN SPACE TEMP. ABOVE 95 DEGREES.
- FD ACCESS.
- 24x24" RISER TO GENERAL EXHAUST FAN GE-2 ON ROOF, SEE M-110.00
- RISER OFFSET BELOW.
- 8" CCWS RISER.
- 8" CCWR RISER.
- 8" FCS RISER.
- 4" CCWSR
- 3" FCWS
- 24x110" GENERAL EXHAUST STUB-OUT CAPPED, BOO EL. 134'-2"
- FD ACCESS DOOR

KEY NOTES:

- 84x18 POST FIRE SMOKE PURGE EXHAUST DUCT RISER
- STAIR PRESSURIZATION DUCT RISER (SEE MECHANICAL RISER DIAGRAM FOR SIZING)
- DIESEL SUPPLY, RETURN AND VENT UP TO BULKHEAD IN RATED MASONRY SHAFT
- CONDENSER WATER SUPPLY & RETURN (CCWS&R) BRANCHES AND RISERS (SEE MECHANICAL RISER DIAGRAM FOR SIZING)
- HEATING HOT WATER SUPPLY & RETURN BRANCHES AND RISERS (SEE MECHANICAL RISER DIAGRAM FOR SIZING)
- VENTILATION AIR DUCT RISER (SEE MECHANICAL RISER DIAGRAM FOR SIZING)
- TOILET EXHAUST DUCT RISER (SEE MECHANICAL RISER DIAGRAM FOR SIZING)
- 36x18 KITCHEN HOOD MAKE-UP AIR DUCT DOWN TO 1ST FLOOR
- 30x30 KITCHEN HOOD EXHAUST AIR DUCT UP TO ROOF IN DEDICATED SHAFT.
- 16x8 TOILET EXHAUST DUCT STUB WITH FIRE SMOKE DAMPER IN WALL PENETRATION OUT TO BATHROOMS
- DUCT OFFSET - 10TH FLOOR ONLY. SEE DWG #3 SECTION A ON THIS SHEET FOR MORE INFORMATION
- PROVIDE 2" STIFFENING ANGLES 16" OC ON SA TRUNK DUCT WITHIN 10' OF ROOF OPENING
- VENTILATION SUPPLY AIR DUCT TO 10TH FLOOR - 24x12
- 24x24 GENERAL EXHAUST UP TO BOILER ROOM AND GE-1 ON BULKHEAD ROOM
- DIESEL OIL SUPPLY, RETURN AND VENT IN 10 GA CONDUIT AND 2 HOUR RATED SOFFIT.
- STAIR PRESSURIZATION SUPPLY WALL REGISTER ON EVERY OTHER FLOOR. SEE M-110.00 FOR MORE INFORMATION
- VENTILATION SUPPLY DUCT STUB WITH FIRE SMOKE DAMPER IN WALL PENETRATION. SEE M-110.00
- POST FIRE SMOKE PURGE DUCT FSD AND 48"x48" GRILLE. SEE M-110.00 MOUNTING HEIGHT AS DIRECTED BY ARCHITECT
- 22"x10" GENERAL EXHAUST CAPPED ABOVE FUTURE CEILING
- SLOT DIFFUSER AND PLENUM. SEE M-110.00 FOR MORE INFORMATION
- 22x2 CEILING ACCESS PANEL
- 8" CCWSR AND 8" FCS THROUGH WALL OF PUMP ROOM ABOVE. SEE DWG. M-111.00 FOR CONTINUATION. SEE SECTION A, DWG. M-110.00
- DUCT INSULATED WHERE EXPOSED IN BATHROOMS. COORDINATE DUCTWORK WITH PLUMBING AND FIRE PROTECTION PIPING
- FUTURE VAV CONDENSING UNITS - MAX 8 STACKED 2 HIGH
- 8" CCWS & 3" CCWR TO CU3 UNIT
- NATURAL GAS PIPE RISERS. SEE PLUMBING DWGS
- UP TO GE-2 ON ROOF ABOVE WITH FD IN ROOF
- 12x48" TOILET EXHAUST CAPPED ABOVE FUTURE CEILING
- 4" CCWSR STUB-OUT FOR FUTURE
- 3" FCWS STUB-OUT FOR FUTURE
- VAV CONDENSING UNIT VAV CU3 TO SERVE VAV-1 AND 2 ON FLOORS 8, 9 AND 10 SEE DIAGRAMS DWG. M-501.00
- PROVIDE 1" CONDENSATE DRAIN PIPING TO WASTE RISER CW-4
- PROVIDE 1" CONDENSATE DRAIN PIPING TO MECHANICAL ROOM FLOOR DRAIN
- 1-1/2" CONDENSATE WASTE RISER DOWN TO 5TH FLOOR CEILING
- 1" CONDENSATE WASTE RISER
- ADJUST PIPING POSITION AND ELEVATIONS TO SUIT SPACE. MIN. BOT ELEVATION 136'-6"
- 6"x8" LULA ELEVATOR SHAFT VENT UP TO BOILER ROOM ENCASE IN 2 HOUR FIRE RATED DUCT WRAP IN BOILER ROOM. SEE M-111.00 FOR CONTINUATION
- PUMP ROOM WALL ABOVE
- ENCASE SA DUCTWORK IN 2 HOUR FIRE RATED/ACOUSTIC ENCLOSURE
- CABLE OPERATED VOLUME DAMPER WITH ACTUATOR - TYP. FOR 3
- PROVIDE 30" DUCT EXTENSION WITH OPPOSED BLADE VOLUME DAMPER & ACCESS TO FSD. SET INITIAL BALANCE AT 900 CFM
- 12"x12" WVM
- 6" DIA SA DUCT TO SUPPLY DIFFUSER. PROVIDE (1) 2" LD-2 FOR SUPPLY AIR. PROVIDE (1) 2" LD-2 FOR RETURN AIR. PROVIDE ALL ACCESSORIES AS SCHEDULED FOR INTENDED USE. SEE ARCH. DWGS FOR LOCATIONS
- TEAR DROP SM ENCLOSURE AROUND COLUMN
- 2" LINING IN EXHAUST DUCT AT 10TH FLOOR CEILING
- MOUNT CUH-1 7'-8" AFF
- 34" HWYSR. CONNECT TO HWYSR FLOOR BRANCH PIPING
- DIESEL OIL SUPPLY, RETURN AND VENT IN 10 GA STEEL CONDUIT AND 2 HOUR RATED SOFFIT, RISE UP TO ROOF.

10 JAY STREET

BLOCK 1 LOT: 50 ZONING MAP: 126

OFFICE BUILDING

10th FLOOR PLAN

M-110.00

PROJECT NO: 1515.00 SCALE: AS NOTED

PAGE: X OF 123

ODA		
Office for Design & Architecture		
445 Grand Ave. 21st Fl. New York, New York 10017 (212) 693-1102		
NO.	DATE	REVISION
0	07/19/15	CADWORKS SUBMITTAL
1	08/07/15	INITIAL PLANS
2	08/20/15	DESIGN DEVELOPMENT
3	09/02/15	10% CONSTRUCTION DOCUMENT
4	11/08/15	20% CONSTRUCTION DOCUMENT
5	12/11/15	30% CONSTRUCTION DOCUMENT
6	02/03/16	40% CONSTRUCTION DOCUMENT
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EXTERIOR WALL CONSULTANT A-P CONSULTING LLC 40 North Street, Suite 525 New York, NY 10013 T: (212) 971-5689	



Basement Floor - 1



Basement Floor - 2



Alarm and Gauge Set



PID Reading at Vent - 1



PID Reading at Vent - 2



Pressure Probe #1



Pressure Probe #2



Pressure Probe #3



Pressure Probe #4



Pressure Probe #6



SSDS Fan #1



SSDS Fan #2



Vents on Roof



HydroTech Environmental

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ANNUAL COMPLIANCE INSPECTION FORM

I. GENERAL INFORMATION

Name of Inspector:		Inspection Date:	
Construction Completion Date:		Date of Last Periodic Compliance Inspection:	
Site Name:		Site ID	
Site Address: (attach map)		County:	
Name and Address Current Property Owner(s):			
Name of Site Contact:		Telephone Number:	
Address:			
Operators Name: (if applicable)		Telephone Number:	
Persons Present During Inspection include Affiliations:			

Date	Site Address	Inspector name and title
Remedy Description of Cover Systems		
1. Review of the current remedy		
Identify the current remedy:		
<input type="checkbox"/> Vapor Barrier	<input type="checkbox"/> Cover Slab/ Top Soil	<input type="checkbox"/> SSDS
How many extraction wells or trenches are used for SVE (if applicable)?		
How many SSDS Systems are used (if applicable)?		
2. Review of the current remedy goals		
What schedule has been established for monitoring each system in OFM?		
B. Remedy Performance Assessment		
1. Evaluate remedy effectiveness:		
Based on information collected since the last O&M review, do monitoring data indicate that the system is failing or could eventually fail to meet remedy goals?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Since the last O&M review, have monitoring data exhibited trends indicative of a new or renewed release?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Since the last O&M review, have changes in land and/or ground water use been suggested and or implemented that have the potential to reduce the protectiveness of the SSDS remedy?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Since the last O&M review, have contaminants been identified in new locations or at higher concentrations where they pose or have the potential to pose unacceptable risks to receptors?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
If you answered yes to any of the above questions, did the information suggest the need for immediate action or is the condition being monitored to evaluate the need for future action? Use this space to comment. What actions, if any, have been taken and/or are planned in response to the new information?	<input type="checkbox"/> Immediate Action	
	<input type="checkbox"/> Monitor for future	
	<input type="checkbox"/> N/A	
Based on your answers to the above questions, is there reason to evaluate the need for a contingent remedy at this time? If yes, use this space to comment.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Blowers and Piping		
Since the last O&M review for this system, has evidence of excessive corrosion of system components been observed?	<input type="checkbox"/> Yes	
If yes, what actions have been taken and/or are planned in response?	<input type="checkbox"/> No	
Since the last O&M review, have blower operational characteristics, such as flow rate, pressure, and discharge temperatures, been consistently within equipment design parameters?	<input type="checkbox"/> Yes	
If no, what actions have been taken and/or are planned in response?	<input type="checkbox"/> No	
Since the last O&M review, if water is manually removed from the extraction blower water separator, has water accumulation been observed that could adversely impact blower operation?	<input type="checkbox"/> Yes	
If yes, what actions have been taken and/or are planned in response?	<input type="checkbox"/> No <input type="checkbox"/> N/A	
Since the last O&M review, have all blowers, water separators, valves, and piping components been	<input type="checkbox"/> Yes	

consistently operational?		<input type="checkbox"/> No
SSDS		
PID Level efficient		PPM
Vacuum Reading		Inch H ₂ O
Alarm Condition		<input type="checkbox"/> Function <input type="checkbox"/> Damage
Was the Subslab Depressurization System (SSDS) operating upon arrival? If "No," explain below why the system was not running, efforts taken to restart the SSDS and if the system was operational when leaving. If successful in making the SSDS operational, complete the remainder of the checklist.		<input type="checkbox"/> Yes <input type="checkbox"/> No
If measured, were all subslab probe vacuum readings greater than 0.004 inches of water? If "Yes," the SSDS is deemed still effective and the vacuum readings taken during this inspection are now the new baseline readings. If "No," system must be adjusted/amended and the SSDS re-commissioned Discuss adjustments and amendments below:		<input type="checkbox"/> Yes <input type="checkbox"/> No
List below all pertinent observations and actions taken during this Inspection: i.e., sagging/damaged pipes, construction changes to building that may affect the system, pipe leaks that may need smoke test, is building still vacant, has occupancy zoning changed (i.e. commercial to residential), are non-SSDS engineered systems still functioning as designed etc. Add additional pages as needed.		
Vapor Barrier		
Did you observe breaking of slab cover, what portion? Any of evidence of Vapor Barrier needs to be alter?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, does the Vapor Barrier appear to be puncture?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, describe action needed to repair the alter cover system.		
Cover System		
Did you observe breaking of slab cover or top soil?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes describe the level of alteration needed for repairs and remedies?		