

Technical Excellence Practical Experience Client Responsiveness

July 15, 2024

Wendi Zheng Region 2 NYSDEC Office 47-40 21st Street Long Island City, NY 11101

Re: NYSDEC Notification Letter Sub-Membrane Depressurization System Design Willets Point Development Stadium 37-11 126th Street, Queens, NY 11356 BCP Site No. C241146C Langan Project No.: 170613801

Dear Ms. Zheng:

In accordance with the Site Management Plan (SMP), Langan prepared this letter to notify the New York State Department of Environmental Conservation (NYSDEC) of the sub-membrane depressurization (SMD) system design drawings for the proposed site development at the Willets Point Development Stadium Brownfield Cleanup Program (BCP) site ('the site'). The Volunteers entered into a Brownfield Cleanup Agreement (BCA) on October 31, 2023 (effective December 16, 2023) and received a Certificate of Completion (COC) on May 1, 2024. This letter describes the planned SMD system scope of work, permitting and implementation schedule, and compliance with the NYSDEC-approved SMP, dated April 22, 2024.

SCOPE OF WORK

An SMD system will be installed below the Stadium's enclosed occupiable spaces as defined by the NYC 2022 building code. The SMD system will be installed beneath the lowest level of the proposed stadium to mitigate potential soil vapor intrusion. The SMD system was designed in accordance with the NYSDOH October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York and the 2022 building code. The system consists of a submembrane collection layer underlying a vapor barrier, with vapor conveyance piping routed to thirteen active electric blowers. The SMD system design incorporates a vapor barrier beneath the building foundation. In accordance with the SMP, a consistent minimum vacuum of at least -0.004 inches of water column will be maintained within the SMD gas permeable layer; the SMD blowers were sized to convey a negative pressure field within the gas permeable layer. Design drawings for the SMD system are included as Attachment 1. Blower details including location, motor size, manufacturer, and model details are included on Table 1 - Fan Schedule.

The stadium foundation and utility contractors will construct the SMD system under the Langan Remedial Engineer (RE) oversight. The RE will oversee implementation and document operations.

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Langan will complete site inspections to observe and document the installation of the abovegrade SMD system components and the vacuum monitoring points as part of the thirteen systems, and will be on-site to observe and document the start-up of each SMD system. A smoke test and vacuum test will be conducted during the start-up inspections to confirm that the riser penetrations and other preferential migration pathways were properly sealed and the SMD system is operational. Langan will also conduct a baseline inspection of the in-line fans and other above-grade components including the alarms, vacuum gauges, general system piping, and sample ports at the start-up of the systems. As part of the start-up inspections, differential pressure measurements will be collected and recorded from each of the vacuum monitoring points using an air velocity meter to determine whether the pressure field underneath the floor slab throughout the SMD system areas meets the minimum pressure described in the SMP. Asbuilt conditions of the SMD system will be provided in a future revision to the SMP.

SCHEDULE

This set of SMD system drawings was developed as part of the 50% Construction Development for the planned site development. The SMD system drawings will be filed with DOB on or about July 18, 2024. Ground-intrusive work for the installation of the SMD and other building components is anticipated to begin on or about September 3, 2024, and foundation completion is expected around July 2026. SMD system commissioning is anticipated to coincide with MEP commissioning, which is tentatively scheduled to begin in August 2026.

SITE MANAGEMENT PLAN COMPLIANCE

The SMD system will become a permanent engineering control (EC). The SMP will be revised to include provisions for system operation and maintenance. The systems will be inspected and their performance certified at specified intervals as required by the SMP. As-built drawings, diagrams and manufacturer documentation for SMD system will be presented in a future revision to the SMP and the Periodic Review Reports (PRR). Active operation of the SMD systems will not be discontinued unless prior written approval is granted by the NYSDEC and NYSDOH project managers.

CLOSING

Please contact me at 212-479-5400 if you have any questions.

Sincerely, Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Gerald Nicholls,

Associate Principal

cc: Jon Stemp – New York City Football Club Elizabeth Burgess, Samuel Singer – Langan Attachments: Attachment 1 – Sub-Membrane Depressurization System Drawings

Table 1 – Fan Schedule

LANGAN

ATTACHMENT 1

SUB-MEMBRANE DEPRESSURIZATION SYSTEM DRAWINGS

LANGAN

GENERAL NOTES:

- THE COMPONENTS SHOWN ARE NOT TO SURVEYED COORDINATES. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS AND LAYOUT OF THE VENTING SYSTEM COMPONENTS IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AND OTHER PROPOSED WORK.
- DRAWING SET NOT TO BE USED FOR STRUCTURAL. ARCHITECTURAL. OR OTHER REFERENCE EXCEPT FOR SUB-MEMBRANE DEPRESSURIZATION (SMD) SYSTEM.
- INSULATION NOT SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR INSULATION REQUIREMENTS.
- ANY DEVIATION FROM THIS DESIGN MUST BE SUBMITTED TO THE OWNER AND ENGINEER OF **RECORD FOR APPROVAL.**
- IT IS ASSUMED THAT ALL INTERIOR SPACE AIR PRESSURES WILL BE BALANCED OR POSITIVELY PRESSURIZED WITH VENTILATION SYSTEMS AND THE INDOOR AIR PRESSURE WILL ESSENTIALLY BE EQUAL TO OR GREATER THAN THE OUTDOOR AIR PRESSURE.
- 6. INSTALLATION OF THE SMD SYSTEM COMPONENTS AND RISER PIPE MUST BE COORDINATED WITH THE INSTALLATION OF OTHER UTILITIES AND STRUCTURAL COMPONENTS.
- INSTALLATION OF THE SMD SYSTEM COMPONENTS, TESTING (I.E., PRESSURE TESTING, SMOKE TEST, ETC.), AND START-UP SHALL BE COMPLETED UNDER THE OVERSIGHT OF THE ENGINEER OF RECORD.
- NO SUB-SLAB PIPING SHALL BE COVERED POST-INSTALLATION UNTIL IT HAS BEEN INSPECTED BY LANGAN AND SURVEYED BY THE CONTRACTOR.

DRAWING LIST

SHEET NO.	SHEET TITLE	DOB SET
H-100.00	SUB-SLAB DEPRESSURIZATION SYSTEM NOTES	1
H-101.00	SUB-SLAB DEPRESSURIZATION SYSTEM PLAN	2
H-102.00	SUB-SLAB DEPRESSURIZATION SYSTEM RISER PLAN	3
H-103.00	SUB-SLAB DEPRESSURIZATION SYSTEM 1 RISER PLAN	4
H-104.00	SUB-SLAB DEPRESSURIZATION SYSTEM 2 RISER PLAN	5
H-105.00	SUB-SLAB DEPRESSURIZATION SYSTEM 3 RISER PLAN	6
H-106.00	SUB-SLAB DEPRESSURIZATION SYSTEM 4 RISER PLAN	7
H-107.00	SUB-SLAB DEPRESSURIZATION SYSTEM 5 RISER PLAN	8
H-108.00	SUB-SLAB DEPRESSURIZATION SYSTEM 6 RISER PLAN	9
H-109.00	SUB-SLAB DEPRESSURIZATION SYSTEM 7 RISER PLAN	10
H-110.00	SUB-SLAB DEPRESSURIZATION SYSTEM 8 RISER PLAN	11
H-111.00	SUB-SLAB DEPRESSURIZATION SYSTEM 9 RISER PLAN	12
H-112.00	SUB-SLAB DEPRESSURIZATION SYSTEM 10 RISER PLAN	13
H-113.00	SUB-SLAB DEPRESSURIZATION SYSTEM 11 RISER PLAN	14
H-114.00	SUB-SLAB DEPRESSURIZATION SYSTEMS 12 AND 13 RISER PLAN	15
H-201.00	SUB-SLAB DEPRESSURIZATION SYSTEM DETAILS - 1	16
H-202.00	SUB-SLAB DEPRESSURIZATION SYSTEM DETAILS - 2	17
H-203.00	SUB-SLAB DEPRESSURIZATION SYSTEM DETAILS - 3	18

INSPECTION SCHEDULE

<u>No.</u>	MILESTONE DESCRIPTION	DATE COMPLETE
1	COMPLETION OF SUB-BASE PREPARATION, INCLUDING THE INSTALLATION OF GEOTEXTILE FABRIC, FOLLOWING SOIL EXCAVATION.	
2	DELIVERY OF GAS PERMEABLE AGGREGATE TO THE SITE.	
3	SUB-SLAB SMD PIPING INSTALLATION PROGRESS, AT A MINIMUM, 25% COMPLETENESS.	
4	SUB-SLAB SMD PIPING INSTALLATION PROGRESS, AT A MINIMUM, 50% COMPLETENESS.	
5	SUB-SLAB SMD PIPING INSTALLATION PROGRESS, AT A MINIMUM, 75% COMPLETENESS.	
6	SUB-SLAB SMD PIPING INSTALLATION PROGRESS, AT A MINIMUM, 100% COMPLETENESS.	
7	VACUUM MONITORING POINTS (VMP) INSTALLATION PROGRESS, AT A MINIMUM, 25% COMPLETENESS.	
8	VACUUM MONITORING POINTS (VMP) INSTALLATION PROGRESS, AT A MINIMUM, 50% COMPLETENESS.	
9	VACUUM MONITORING POINTS (VMP) INSTALLATION PROGRESS, AT A MINIMUM, 75% COMPLETENESS.	
10	VACUUM MONITORING POINTS (VMP) INSTALLATION PROGRESS, AT A MINIMUM, 100% COMPLETENESS.	
11	GAS PERMEABLE AGGREGATE LAYER INSTALLATION PROGRESS, AT A MINIMUM, 25% COMPLETENESS.	
12	GAS PERMEABLE AGGREGATE LAYER INSTALLATION PROGRESS, AT A MINIMUM, 50% COMPLETENESS.	
13	GAS PERMEABLE AGGREGATE LAYER INSTALLATION PROGRESS, AT A MINIMUM, 75% COMPLETENESS.	
14	GAS PERMEABLE AGGREGATE LAYER INSTALLATION PROGRESS, AT A MINIMUM, 100% COMPLETENESS.	
15	INSTALLATION OF ALL PORTIONS OF ABOVE-SLAB PIPING FROM FIELD LEVEL TO THE ROOFS (INCLUDING LABELS ON EXPOSED PORTIONS OF THE ABOVE-SLAB RISER PIPING) PROGRESS, AT A MINIMUM, 25% COMPLETENESS.	
16	INSTALLATION OF ALL PORTIONS OF ABOVE-SLAB PIPING FROM FIELD LEVEL TO THE ROOFS (INCLUDING LABELS ON EXPOSED PORTIONS OF THE ABOVE-SLAB RISER PIPING) PROGRESS, AT A MINIMUM, 50% COMPLETENESS.	
17	INSTALLATION OF ALL PORTIONS OF ABOVE-SLAB PIPING FROM FIELD LEVEL TO THE ROOFS (INCLUDING LABELS ON EXPOSED PORTIONS OF THE ABOVE-SLAB RISER PIPING) PROGRESS, AT A MINIMUM, 75% COMPLETENESS.	
18	INSTALLATION OF ALL PORTIONS OF ABOVE-SLAB PIPING FROM FIELD LEVEL TO THE ROOFS (INCLUDING LABELS ON EXPOSED PORTIONS OF THE ABOVE-SLAB RISER PIPING) PROGRESS, AT A MINIMUM, 100% COMPLETENESS.	
19	IMPLEMENTATION OF PRESSURE TEST OF COMPLETED INTERIOR PIPES.	
20	INSTALLATION OF DEPRESSURIZATION FANS AND ACCESSORIES.	
21	INSTALLATION OF ALARM INDICATOR STATION (AIS) AND TESTING.	
22	START-UP OF COMPLETED SYSTEM.	

SUB-MEMBRANE DEPRESSURIZATION SYSTEM NOTES

- REFER TO DRAWINGS H-101.00 THROUGH H-114.00 AND H-201.00 THROUGH H-203.00 FOR SUB-SLAB DEPRESSURIZATION SYSTEM DETAILS AND SECTIONS.
- 2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL PRIOR TO THE SUB-MEMBRANE DEPRESSURIZATION SYSTEM INSTALLATION. ANY CONDITION OR DETAIL NOT DEPICTED IN THESE DRAWINGS SHALL BE PROVIDED AS A SHOP DRAWING FOR APPROVAL
- 8. SMD SYSTEM PIPE, FITTINGS, UNIONS, CLEANOUTS, SLEEVES, SUPPORTS, HANGERS, AND RELATED ACCESSORIES SHALL BE FURNISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR PLUMBING SANITARY VENT PIPING IN DIVISION 15. REFER TO PLUMBING DRAWINGS FOR SMD SYSTEM PIPING SUPPORTS.
- SUBMIT DETAIL OF ANY SITE SPECIFIC SUB-SLAB DEPRESSURIZATION SYSTEM CONDITIONS NOT SHOWN FOR OWNER APPROVAL.
- 5. SLOPE ALL SOLID (UNPERFORATED) PIPE A MINIMUM OF 1% UNIFORMLY DOWNWARD TOWARDS SMD SYSTEM SUB-SLAB PITS OR CONDENSATE DRAINS. ANY ACCUMULATED MOISTURE/WATER MUST BE ALLOWED TO DRAIN TO THE SUBSURFACE. PIPING SHALL NOT BE TRAPPED AND CONDENSATE DRAINS SHALL NOT BE INSTALLED IN ABOVE SLAB PIPING.
- 6. CONDENSATE DRAIN FOR SUB-SLAB PIPING MAY BE AN OPTION, WITH WRITTEN ENGINEER APPROVAL, IF CONFLICT WITH UTILITIES REQUIRES REVERSE SLOPE (SEE DETAIL 8/H-201).
- 7. COAT ANY PIPING IN DIRECT CONTACT WITH CONCRETE IN ACCORDANCE WITH PLUMBING CODES.
- 8. DESIGN DETAILS AND DRAWINGS ARE ADAPTED FROM EPA DOCUMENT EPA/625/R-92/016.
- 9. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK CITY MECHANICAL AND PLUMBING CODE, INCLUDING, BUT NOT LIMITED TO, THOSE REQUIREMENTS PERTAINING TO: PROTECTION OF SYSTEM COMPONENTS
- TRENCHING, EXCAVATION, AND BACKFILL
- STRUCTURAL SAFETY
- PIPING SUPPORT JOINTS
- RISER LOCATION
- MATERIALS OF CONSTRUCTION
- 10. ALL ABOVEGROUND AND BELOW GRADE SMD SYSTEM PIPES SHALL BE PROVIDED WITH PIPE HANGERS IN ACCORDANCE WITH THE REQUIREMENTS ON THE PLUMBING DRAWINGS AND SPECIFICATIONS.
- 11. UNLESS OTHERWISE SPECIFIED, ALL UNDERGROUND PIPING SHALL BE CONSTRUCTED OF 4"Ø SCHEDULE 80 POLYVINYL CHLORIDE (PVC) AND ALL ABOVEGROUND RISER PIPING SHALL BE CONSTRUCTED OF 4"Ø CAST IRON OR GALVANIZED STEEL.
- 12. INSTALLATION OF THE SUB-SLAB COMPONENTS AND VENT AND RISER PIPING, AND ROOF PENETRATIONS MUST BE COORDINATED WITH OTHER TRADES FOR THE INSTALLATION OF OTHER UTILITIES AND STRUCTURAL COMPONENTS.
- 13. RISER PIPE FROM SUB-SLAB TO ROOF SHALL BE COORDINATED WITH THE ARCHITECT AND MECHANICAL ENGINEER. RISER PIPE SHALL BE EXTENDED TO THE ROOF WITH MINIMAL CHANGES IN DIRECTION (i.e., NO MORE THAN 3 ROUTING ALTERATIONS FROM A STRAIGHT VERTICAL RISER PIPE); NO 90-DEGREE CHANGES IN DIRECTION ARE ALLOWED, 45-DEGREE FITTINGS ARE PREFERRED.
- 14. SYSTEM INSTALLATION SHALL ADHERE TO: OCTOBER 2006 FINAL GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK PREPARED BY NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH), ALL APPLICABLE PORTIONS OF THE BUILDING CODE OF THE CITY OF NEW YORK, INCLUDING BUT NOT LIMITED TO 2022 NEW YORK CITY MECHANICAL CODE, CHAPTER 5, SECTION MC 512 SUBSLAB SOIL EXHAUST SYSTEMS.
- 15. RISER PIPE (REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR DESIGN AND LOCATION OF ABOVE-SLAB PIPING) SHALL BE EXTENDED TO THE ROOF WITH MINIMAL CHANGES IN DIRECTION AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS. HORIZONTAL RISER PIPE RUNS MUST MAINTAIN A MINIMUM SLOPE OF 1/8 INCHES PER LINEAR FOOT, SLOPING BACK TOWARDS THE SUB-SLAB DEPRESSURIZATION PIT (FOR BELOW GRADE SOLID PIPE) OR SLOPING BACK TOWARDS THE RISER (FOR ABOVE-SLAB SOLID PIPE).
- 16. RISER PIPE SHALL BE AIR-TIGHT. THE CONTRACTOR SHALL PERFORM PRESSURE TESTING TO DEMONSTRATE THAT THE RISER PIPE IS AIR-TIGHT BEFORE IT IS PUT INTO SERVICE. PRESSURE TESTING SHALL BE COMPLETED AT EVERY VERTICAL VENT RISER PIPE TO CONFIRM NO DAMAGE TO THE ABOVE GRADE SMD PIPES. PRESSURE TESTING WILL INVOLVE ISOLATING THE RISERS AND SHALL GENERALLY FOLLOW THE TESTING PROCEDURES SET FORTH IN ASME B31.1. A MINIMUM OF 2 INCHES OF MERCURY [IN.HG] SHALL BE APPLIED TO THE PIPE AND MAINTAINED FOR A MINIMUM OF 10 MINUTES. ANY DAMAGE OR DEFECT DETECTED SHALL BE REPAIRED OR REPLACED.
- 17. EXHAUST STACKS SHALL BE SECURELY ANCHORED WITH ADEQUATE STRUCTURAL SUPPORTS AS SHOWN ON DETAILS AND REQUIRED IN THE SPECIFICATIONS.
- 18. LOCATIONS OF RISER PIPE FROM SUB-SLAB TO ROOF SHALL BE COORDINATED WITH ARCHITECT AND MECHANICAL ENGINEER. RISER PIPE SHALL BE EXTENDED TO THE ROOF WITH MINIMAL CHANGES IN DIRECTION. SEE DRAWINGS H-103.00 THROUGH H-114.00 FOR RISER LOCATIONS.
- 19. RISER PIPE MUST BE CLEARLY LABELED "CAUTION: DO NOT ALTER SUB-SLAB VAPOR VENT PIPE" IN FACH ACCESSIBLE AREA A MINIMUM OF EVERY 10 LINEAR FEET OF RISER PIPE RUN.
- 20. SMD SYSTEM EFFLUENT DISCHARGE POINTS SHALL BE:
- COORDINATED WITH ARCHITECT AND MECHANICAL ENGINEER;
- ABOVE THE EAVE OF THE ROOF (PREFERABLY, ABOVE THE HIGHEST EAVE OF THE BUILDING AND AT LEAST 24-INCHES ABOVE THE SURFACE OF THE ROOF); AT LEAST 10 FEET ABOVE GROUND LEVEL;
- AT LEAST 10 FEET AWAY FROM ANY OPERABLE AIR INTAKE 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
- 21. ALL EXTERNAL PIPES SHALL BE PAINTED WITH A UV-RATED AND/OR CORROSION RESISTANT COATING, DEPENDING ON PIPE MATERIAL
- 22. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (SIGNED AND SEALED BY A NYS-LICENSED PROFESSIONAL ENGINEER) OF COMPLETE SMD SYSTEM TO OWNER FOLLOWING INSTALLATION. THE SUBSURFACE SYSTEM COMPONENTS (E.G. PIPES) SHALL BE SURVEYED BY A NYS LICENSED SURVEYOR.
- VAPOR BARRIER SHALL BE INSTALLED BY A MANUFACTURER-CERTIFIED OR -APPROVED INSTALLER. PLACED. THE SELECTED VAPOR BARRIER. PENETRATED OR DAMAGED. INSTRUCTIONS AND RETESTED. APPLIED. CONTRACTOR'S APPLICANT OF RECORD. WORK COMMENCES. BC 1704.18: MECHANICAL SYSTEMS IID INSPECTION/TEST MAINTENANCE IDD1 INFORMATION CONSTRUCTION SUBMITTAL FOR REVIEW. LICENSED SURVEYOR. TESTING OF ALL PIPING).
- EQUIVALENT.

VAPOR BARRIER NOTES

REFER TO VAPOR BARRIER DRAWINGS FOR DESIGN.

2. VAPOR BARRIER SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MANUFACTURER GUIDELINES AND DETAILS.

VAPOR BARRIER SHALL BE INSPECTED IMMEDIATELY BEFORE CONCRETE IS PLACED. ALI PENETRATIONS, HOLES, AND/OR TEARS SHALL BE SEALED BEFORE CONCRETE IS PLACED. THE VAPOR BARRIER DETAILS SHOWN ARE GENERALIZED IN NATURE AND ARE INTENDED TO INDICATE THE EXTENT AND LOCATIONS OF THE VAPOR BARRIER. ACTUAL INSTALLATION AND REPAIRS SHALL BE IN ACCORDANCE WITH THE VAPOR BARRIER MANUFACTURER'S STANDARD DETAILS AND WRITTEN INSTALLATION INSTRUCTIONS. ALL STANDING WATER AND SOIL/DEBRIS MUST BE REMOVED FROM THE VAPOR BARRIER BEFORE CONCRETE IS PLACED. POTABLE WATER OR COMPRESSED AIR CAN BE USED TO CLEAN THE SURFACE BEFORE CONCRETE IS

CONTRACTOR SHOP DRAWINGS INDICATING VAPOR BARRIER INSTALLATION DETAILS AND METHODS SHALL BE REVIEWED AND APPROVED BY THE MATERIAL MANUFACTURER PRIOR TO SUBMITTAL TO THE ENGINEER OF RECORD FOR REVIEW.

ALL VAPOR BARRIER ACCESSORY MATERIALS. INCLUDING BUT NOT LIMITED TO TAPE. SEALANT, LIQUID MEMBRANE, ETC. SHALL BE COMPATIBLE WITH AND DESIGNED FOR USE WITH

INSTALLED VAPOR BARRIER MATERIALS AND INSTALLATION SHALL HAVE WARRANTIES PROVIDED BY THE INSTALLER AND MANUFACTURER.

DO NOT PENETRATE THE VAPOR BARRIER MEMBRANE. CARE SHALL BE TAKEN DURING THE PLACEMENT OF THE SLAB REINFORCING REBAR AND THE POURING OF THE BUILDING SLAB TO PREVENT ACTIVITIES [I.E., VEHICLE TRAFFIC DIRECTLY ON TOP OF VAPOR BARRIER] WHICH MAY DAMAGE THE VAPOR BARRIER PRIOR TO INSTALLING THE BUILDING SLAB. IF VEHICLE TRAFFIC OVER THE VAPOR BARRIER IS REQUIRED, PROPER PRECAUTIONS SHALL BE COORDINATED WITH THE ENGINEER OF RECORD PRIOR TO INITIATING SUCH WORK. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE MEMBRANE IS NOT

THE VAPOR BARRIER SHALL BE INSPECTED FOR HOLES, PUNCTURES AND GAPS. A SMOKE TEST, OR EQUAL INTEGRITY TEST PER THE MANUFACTURER'S INSTRUCTIONS, SHALL BE CONDUCTED A MINIMUM OF EVERY 5.000 SQUARE FOOT INTERVAL. OR AS REQUIRED BY THE VAPOR BARRIER MANUFACTURER. ALL LEAKS SHALL BE PATCHED PER THE MANUFACTURER'S

10. THE VAPOR BARRIER MATERIALS ARE INTENDED TO MITIGATE INTRUSION OF CONTAMINATED SUB-SLAB VAPORS INTO OCCUPIED BUILDING SPACES. IF IS ALSO REQUIRED, THIS SHALL BE COORDINATED ACCORDINGLY TO ENSURE COMPATIBLE MATERIALS ARE SELECTED AND

SPECIAL INSPECTIONS NOTES

SPECIAL INSPECTIONS REQUIRED UNDER THIS APPLICATION IN ACCORDANCE WITH CHAPTER 17 AND THE APPLICABLE SECTIONS OF THE NYC CONSTRUCTION CODE ARE LISTED BELOW. SPECIAL INSPECTIONS FOR PORTIONS OF THE WORK THAT ARE FILED UNDER SEPARATE APPLICATION ARE NOT LISTED HERE AND ARE TO BE LISTED ON THOSE APPLICATIONS BY THE

THE CONTRACTOR MUST NOTIFY THE RELEVANT SPECIAL INSPECTOR OR SPECIAL INSPECTION AGENCY IN WRITING FOR SPECIAL INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC

THE "OWNER" SHALL BE RESPONSIBLE FOR THE FOLLOWING SPECIAL INSPECTIONS: BC 1704.27: FIRE-RESISTANT PENETRATIONS AND JOINTS

BC 110.5, 28-116.2.4.2, 1 RCNY 101-10: FINAL

• BC 1704.32: POST-INSTALLED ANCHORS (BB# 20-14-018,2014-19)

ENERGY CODE PROGRESS INSPECTION

PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER C6) OR OTHER CRITERIA	ECC OR OTHER CITATION	SUPPORTING DOC. LOCATION	INSPECTION D
PRIOR TO SIGN-OFF OR ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING ELECTRICAL DRAWINGS WHERE APPLICABLE; ASHRAE GUIDELINE 4: PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS	ASHRAE 90.1 - 4.2.2.3, 6.7.2.2, 6.7.2.3.5.2, 8.7.2, 9.7.2.2, 9.4.3.2.2	SPEC SECTION 16502, 16520, 16530	MAINTENANC AND ELECTRIC MAINTENANC EQUIPMENT A TO THE OWNE SYSTEMS MUS

SUBMITTALS/DELIVERABLES

CONTRACTOR TO PROVIDE MANUFACTURER CUT SHEETS FOR ALL PROPOSED COMPONENTS OF THE SMD SYSTEM (INCLUDING BUT NOT LIMITED TO GEOTEXTILE FABRIC, SOLID SUBSURFACE PVC PIPE, PVC PIPE FITTINGS, 3/4-INCH CLEAN STONE, VAPOR BARRIER, CAST IRON OR GALVANIZED STEEL RISER PIPE, RISER PIPE FITTINGS, BLOWERS, AND METHANE DETECTORS) BEFORE PROCUREMENT AND INSTALLATION.

CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS TO THE REMEDIATION ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF DEPRESSURIZATION SYSTEM COMPONENTS.

CONTRACTOR TO PROVIDE PROOF OF CERTIFICATION FOR VAPOR BARRIER INSTALLER AS A

CONTRACTOR MUST PROVIDE PE-STAMPED AS-BUILT DRAWINGS OF COMPLETED VAPOR BARRIER EXTENTS TO REMEDIAL ENGINEER FOLLOWING INSTALLATION.

CONTRACTOR MUST PROVIDE PE-STAMPED AS-BUILT DRAWINGS OF UNDER-SLAB AND ABOVE-SLAB SMD SYSTEM COMPONENTS TO REMEDIAL ENGINEER FOLLOWING INSTALLATION. THE LOCATIONS OF ALL SUB-SLAB SMD SYSTEM COMPONENTS SHOULD BE SURVEYED BY A

CONTRACTOR TO PROVIDE TESTING REPORTS (INCLUDING RESULTS OF PRESSURE/LEAK

CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR THE BLOWER (ALL COMPONENTS OF THE BLOWER SHOULD BE COMPATIBLE WITH VOLATILE ORGANIC COMPOUNDS AND METHANE).

CONTRACTOR TO PROVIDE SHOP DRAWINGS AND AS-BUILT DRAWINGS OF THE WATERPROOFING/VAPOR BARRIER MEMBRANE WITH A MINIMUM THICKNESS OF 20 MILS. THE PREFERRED VAPOR BARRIER MEMBRANE PRODUCT IS FLORPRUFE 120. OR AN APPROVED

CODE COMPLIANCE NOTES

- 1. THE SUB-SLAB DEPRESSURIZATION SYSTEM COMPLIES WITH THE REQUIREMENTS OF THE 2022 NYC MECHANICAL CODE SECTION 512. "SUBSLAB SOIL EXHAUST SYSTEMS". 2. PLEASE REFER TO NEW BUILDING APPLICATION DOB NOW JOB NUMBER [000000150] FOR ALL
- BUILDING DEPARTMENT NOTES, APPLICABLE INSPECTIONS, AND LIST OF DRAWINGS.

PERMITS: SHALL COMPLY WITH CHAPTER 1 ADMINISTRATION. TITLE 28. SECTION MC 105.

LISTED AND LABELED: 301.4. LABEL INFORMATION SHALL COMPLY WITH REQUIREMENTS OF MC 301.6.

VIBRATION ISOLATION: VIBRATION ISOLATORS AS REQUIRED BY MC 301.10.

WIND RESISTANCE:

SHALL BE DESIGNED AND INSTALLED AS PER BC 1609 "WIND LOADS"

FIRE STOPPING COMPLIANCE NOTE:

- FOR FIRE STOPPING AT ANY FIRE RATED CONSTRUCTION PENETRATION, CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 078413. ALL DUCT AND PIPE PENETRATIONS OF RATED CONSTRUCTION SHALL COMPLY WITH NYC BC 712.
- SPECIAL INSPECTIONS REQUIRED UNDER THIS APPLICATION IN ACCORDANCE WITH CHAPTER 17 AND THE APPLICABLE SECTIONS OF THE NYC CONSTRUCTION CODE ARE LISTED BELOW. SPECIAL INSPECTIONS FOR PORTIONS OF THE WORK THAT ARE FILED UNDER SEPARATE APPLICATION ARE NOT LISTED HERE AND ARE TO BE LISTED ON THOSE APPLICATIONS BY THE CONTRACTOR'S APPLICANT OF RECORD.
- PROGRESS INSPECTIONS REQUIRED UNDER CHAPTER 1 OF THE NYC BUILDING CODE AND THE APPLICABLE SECTIONS OF THE NYC CONSTRUCTION CODE ARE LISTED IN THE FOLLOWING NOTES AND TABLES.
- THE CONTRACTOR MUST NOTIFY THE RELEVANT SPECIAL INSPECTOR OR SPECIAL INSPECTION AGENCY IN WRITING FOR SPECIAL INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES.
- THE "OWNER" SHALL BE RESPONSIBLE FOR THE FOLLOWING PROGRESS INSPECTIONS: 4.1. ENERGY CODE COMPLIANCE INSPECTIONS *TR8 BC 110.35 4.2. FINAL BC 110.5 28-116.2.4.2 1 RCNY 101-10

OR OTHER ATION	SUPPORTING DOC. LOCATION	INSPECTIC
IRAE 90.1 - 2.3, 6.7.2.2, 2.3.5.2, 8.7.2, 2.2, 9.4.3.2.2	SPEC SECTION 16502, 16520, 16530	MAINTENA AND ELEC MAINTENA EQUIPMEN TO THE ON SYSTEMS I
	IRAE 90.1 - 2.3, 6.7.2.2, 2.3.5.2, 8.7.2,	ATION IRAE 90.1 - 2.3, 6.7.2.2, 2.3.5.2, 8.7.2,

- CONTRACTOR SHALL FILE FOR AND OBTAIN PERMITS FOR ALL MECHANICAL SYSTEMS. PERMITS
- ALL APPLIANCES REGULATED BY NYCMC SHALL BE LISTED AND LABELED AS REQUIRED BY MC
- ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED AND SUPPORTED AND PROVIDED WITH
- ALL MECHANICAL EQUIPMENT, APPLIANCES, AND SUPPORTS THAT ARE EXPOSED TO WIND

PROGRESS INSPECTIONS



Project NYCFC WILLETS POINT STADIUM FLUSHING, NY 11368

Prepared For **NEW YORK CITY** FOOTBALL CLUB

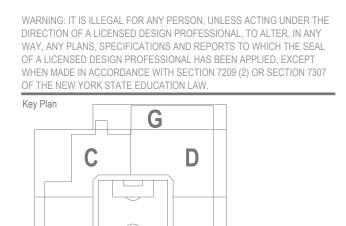




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Tel: 508-577-0429



Professional Seals

No. Description

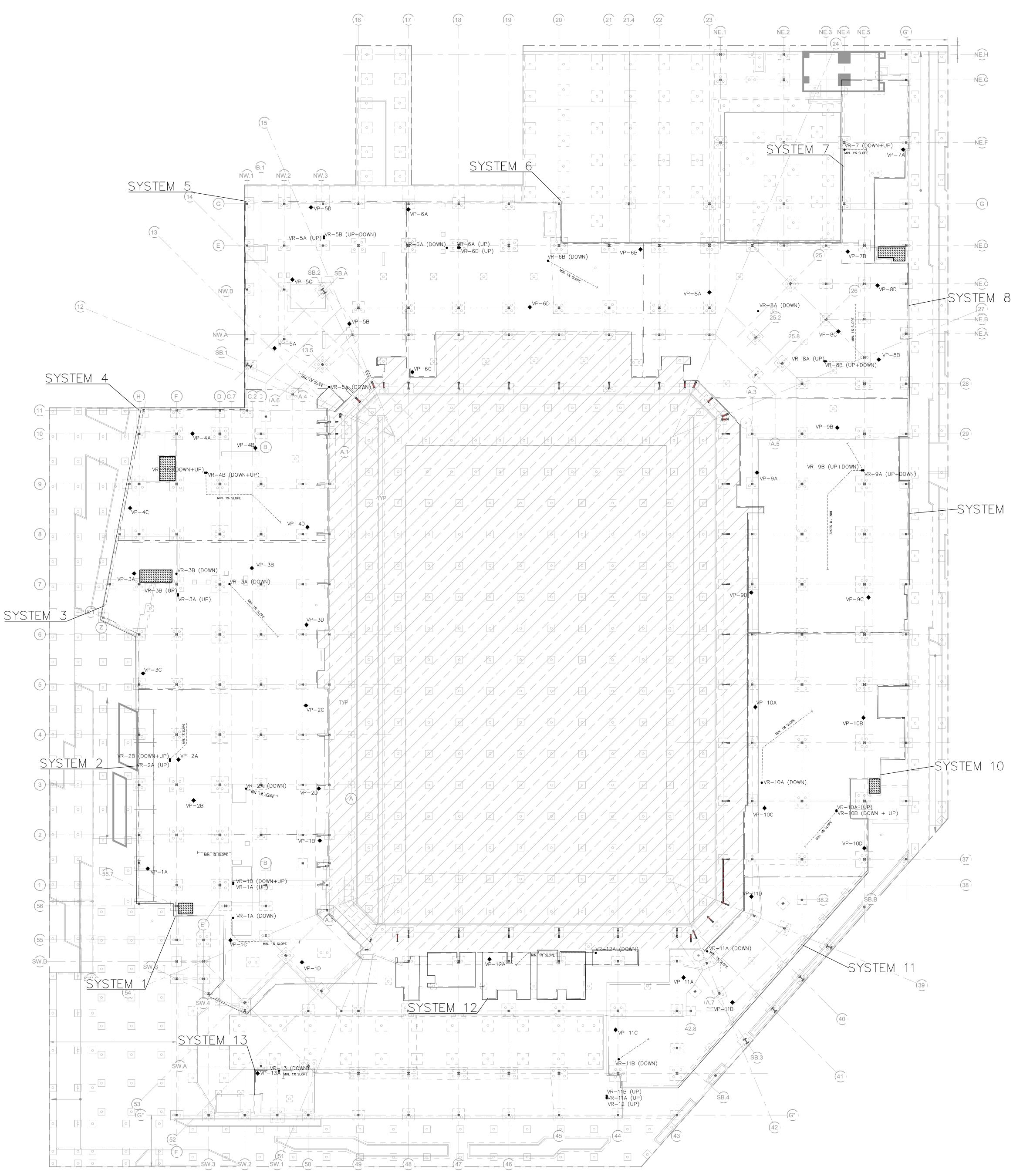
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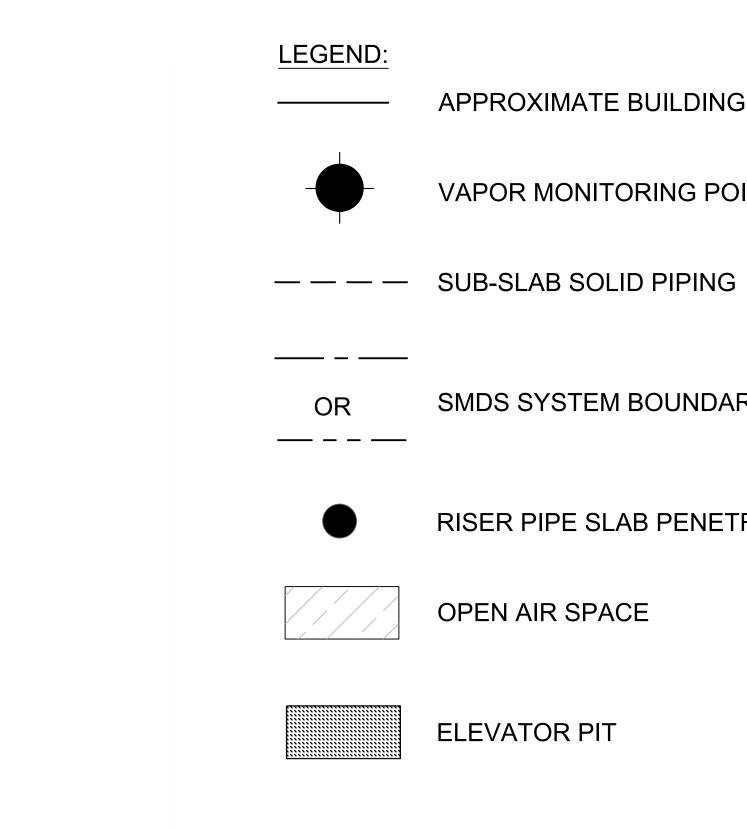
NCE MANUALS FOR MECHANICAL, SERVICE HOT WATER ICAL EQUIPMENT AND SYSTEMS REQUIRING PREVENTIVE NCE MUST BE REVIEWED FOR APPLICABILITY TO INSTALLED AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED NER. LABELS REQUIRED FOR SUCH EQUIPMENT OR UST BE INSPECTED FOR ACCURACY AND COMPLETENESS.

NOT FOR
CONSTRUCTION

1 EARLY UNDERGROUND UTILITY PACKAGE 5/









- MARCH 28, 2024.
- SUB-SURFACE VAPOR COLLECTION PIPE.
- 3. THE UPPER FLOOR SLAB.

APPROXIMATE BUILDING BOUNDARY

VAPOR MONITORING POINTS

SMDS SYSTEM BOUNDARIES

RISER PIPE SLAB PENETRATION



2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO

RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATION WHERE THE RISER PIPE IS PENETRATING



Project NYCFC WILLETS POINT STADIUM FLUSHING, NY 11368

Prepared For **NEW YORK CITY** FOOTBALL CLUB

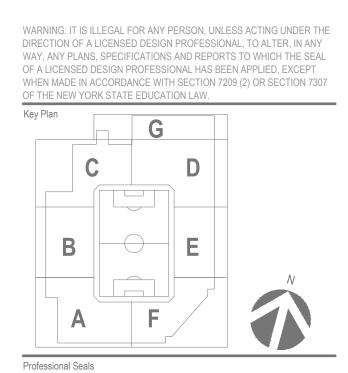




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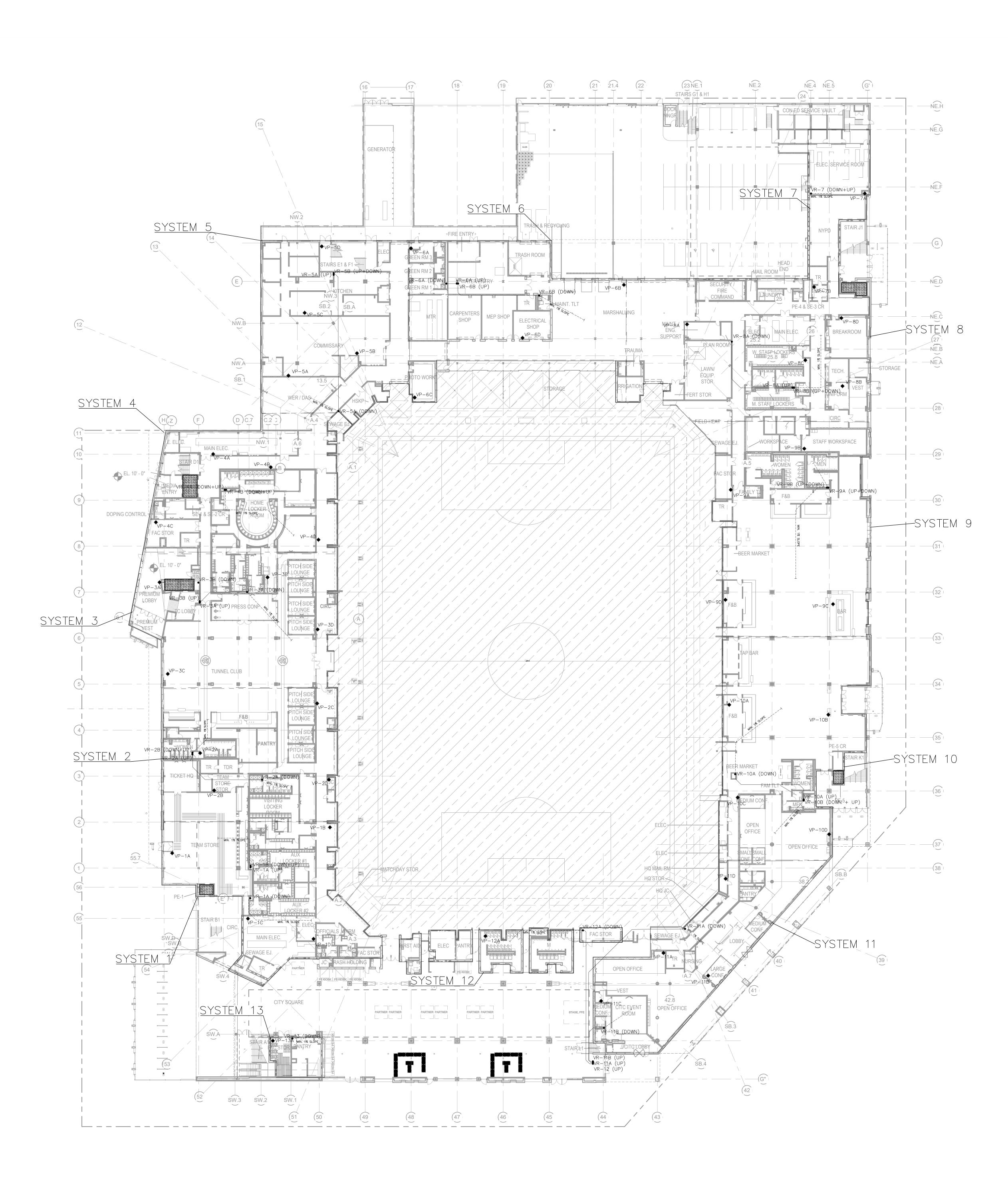
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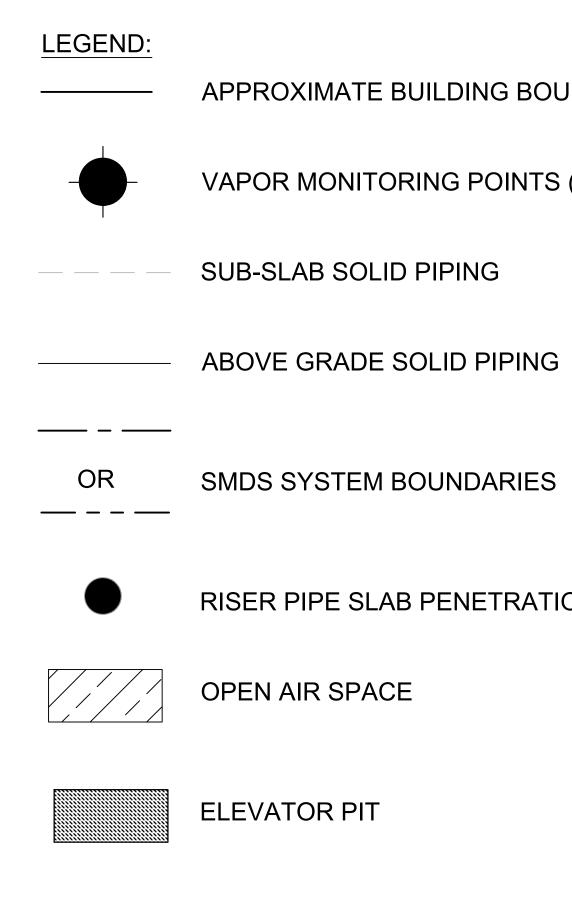
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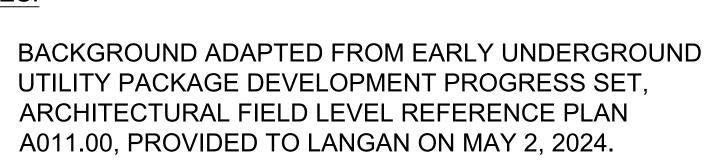




NOTES:

- 2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO SUB-SURFACE VAPOR COLLECTION PIPE.
- 3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATION WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR SLAB.

- APPROXIMATE BUILDING BOUNDARY
- VAPOR MONITORING POINTS (VP-01)
- RISER PIPE SLAB PENETRATION (VR-01)





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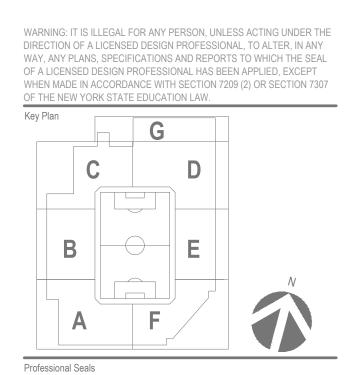




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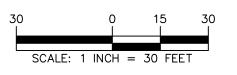
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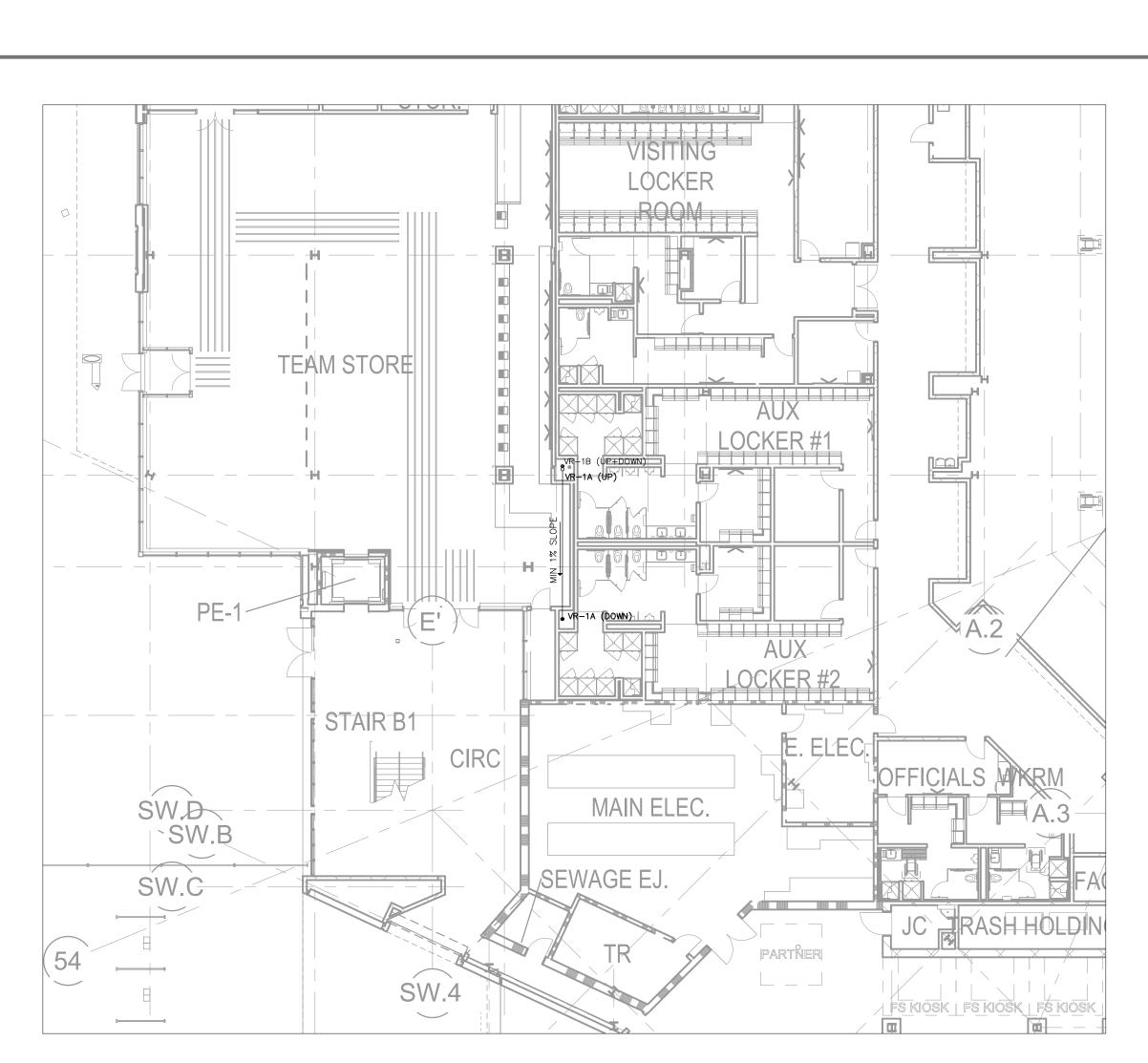
Norwell, MA 02061 Tel: 508-577-0429



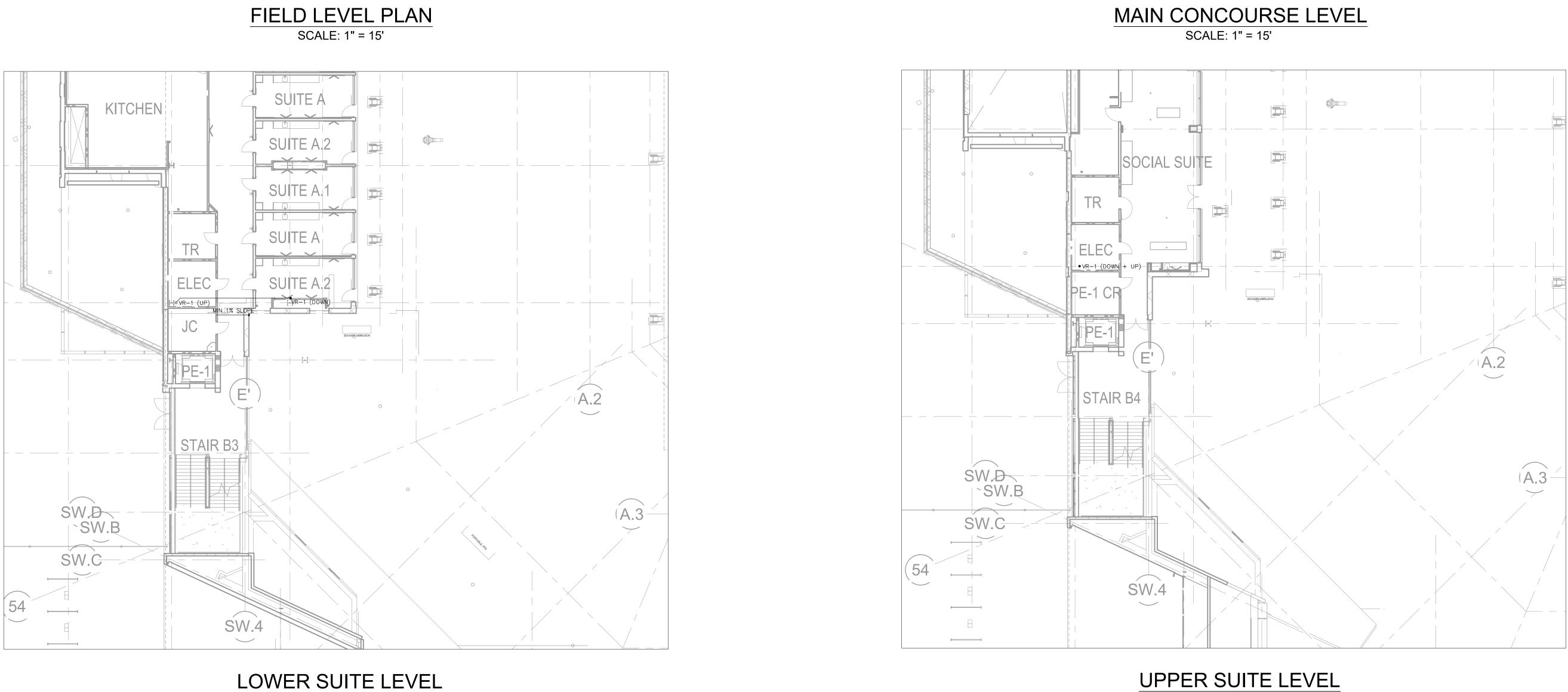
NOT FOR CONSTRUCTION



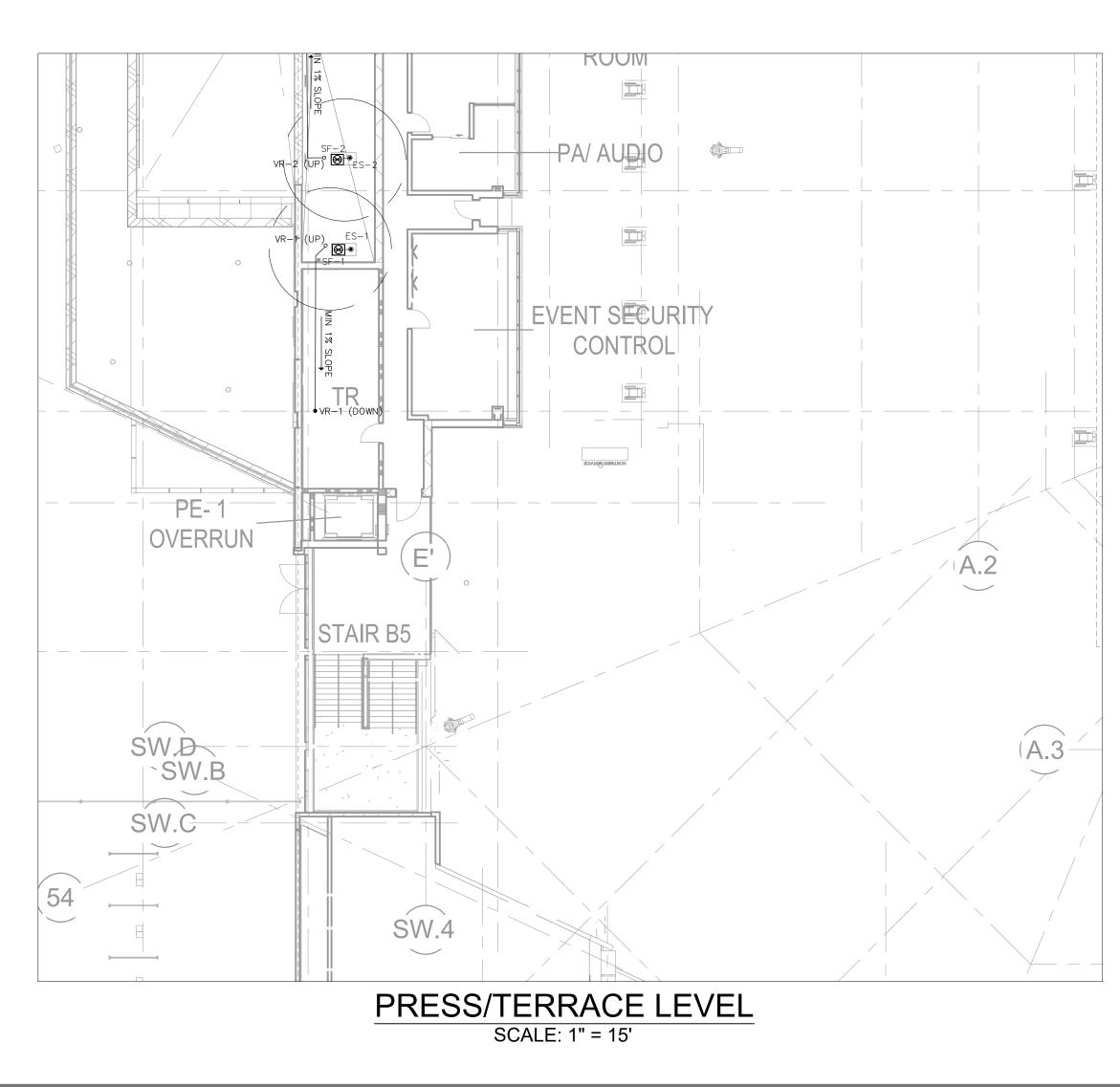




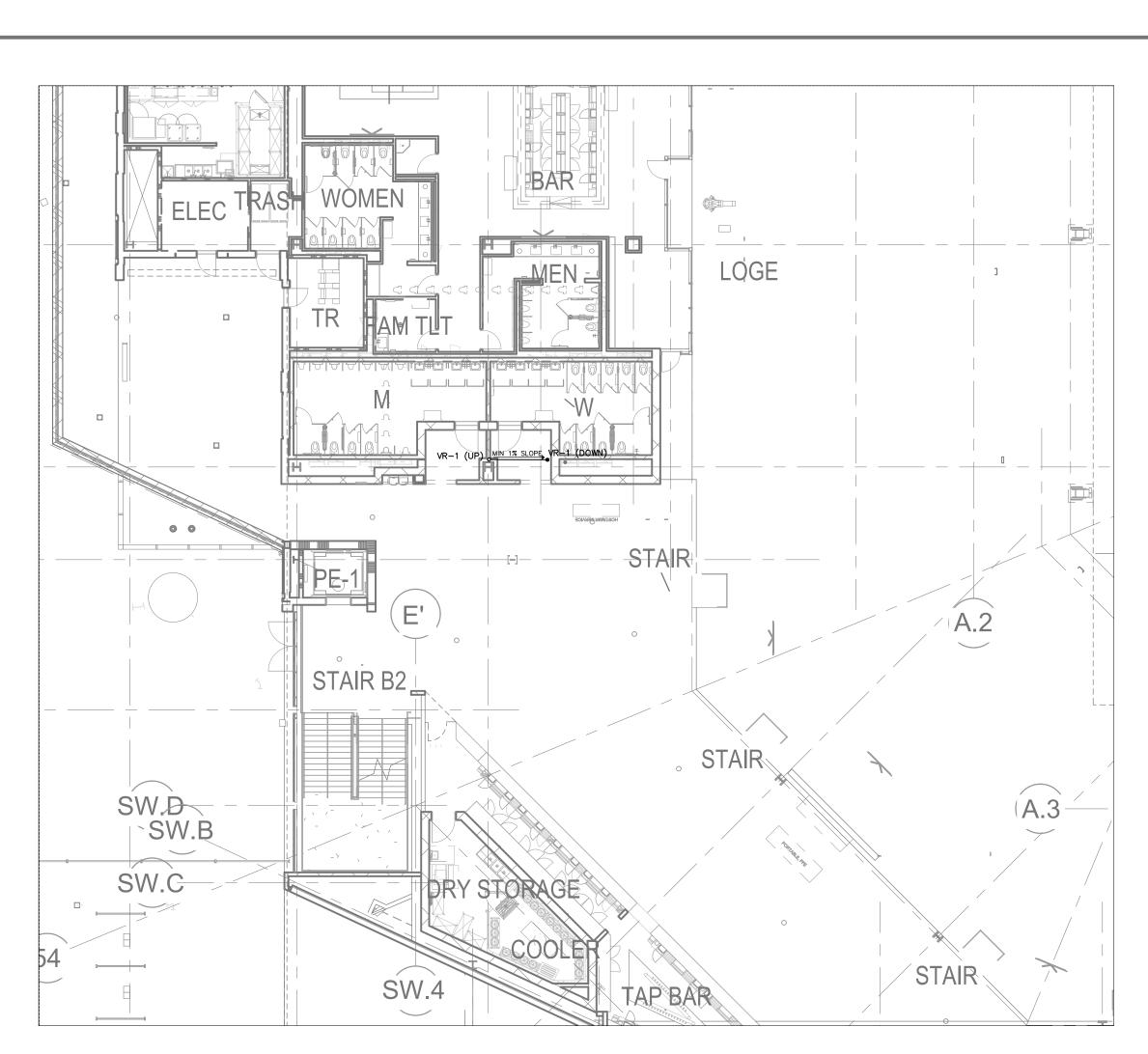


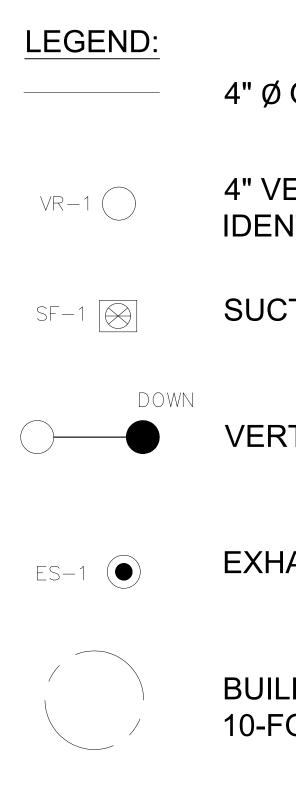


SCALE: 1" = 15'



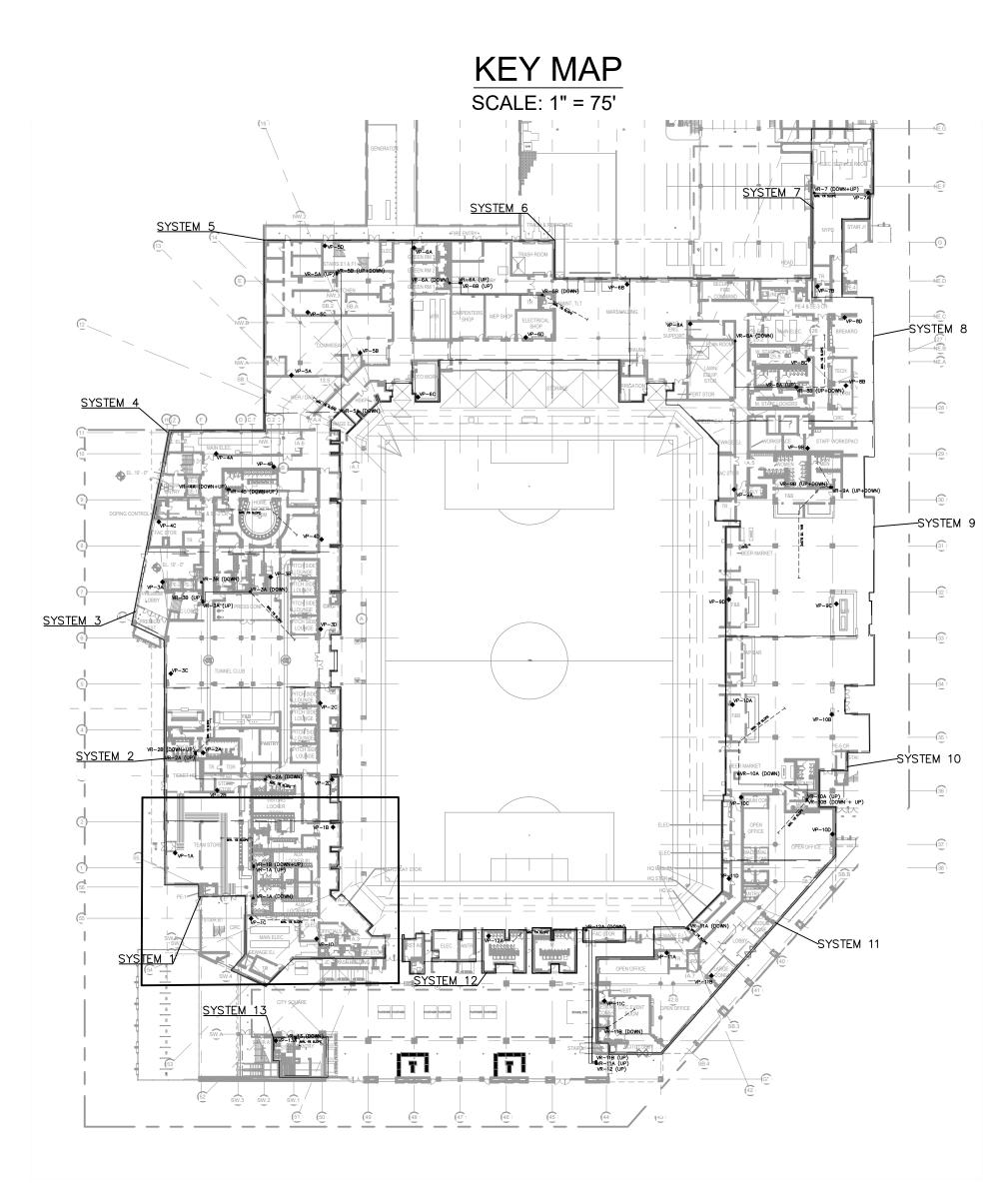






NOTES:

- RISER PIPE.
- SLAB.





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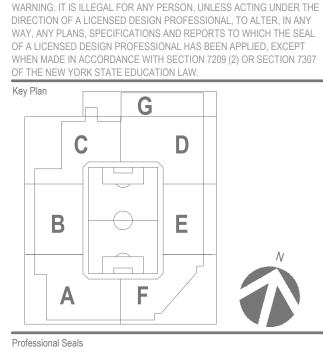


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SUB-MEMBRANE DEPRESSURIZATION SYSTEM 1 RISER PLAN

H-103.00

Sheet Number

4" Ø GALVANIZED STEEL PIPING

4" VERTICAL RISER AND **IDENTIFICATION NUMBER**

SUCTION FAN

VERTICAL RISER OFFSET

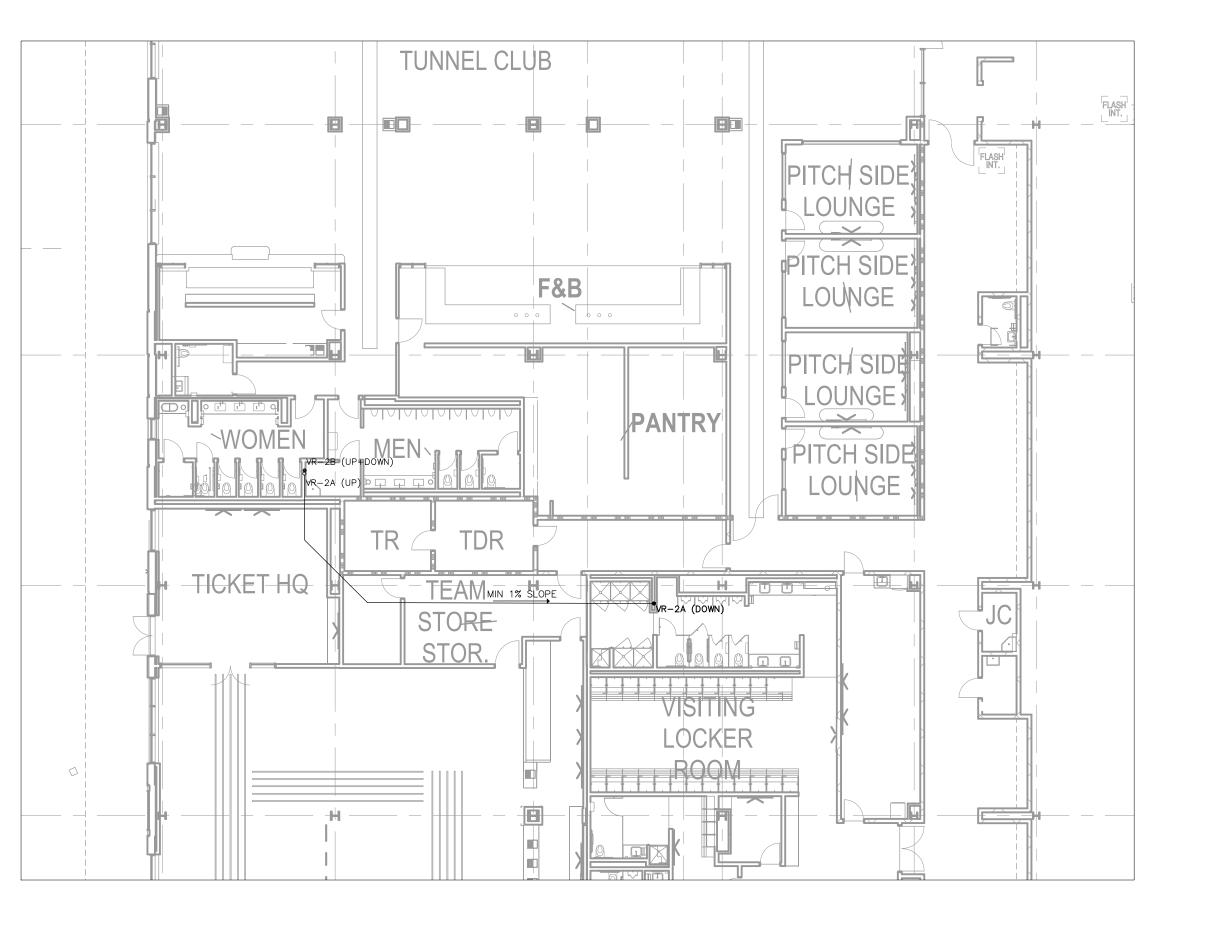
EXHAUST STACK

BUILDING AIR INTAKE LOCATION 10-FOOT RADIUS

BASE MAP TAKEN FROM EARLY UNDERGROUND UTILITY PACKAGE DEVELOPMENT SET, ARCHITECTURAL DRAWINGS, PREPARED BY HOK, PROVIDED TO LANGAN ON MAY 2, 2024.

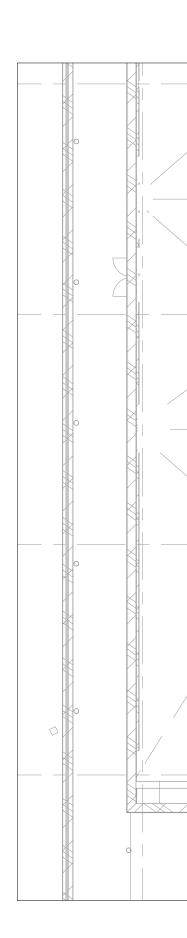
2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR

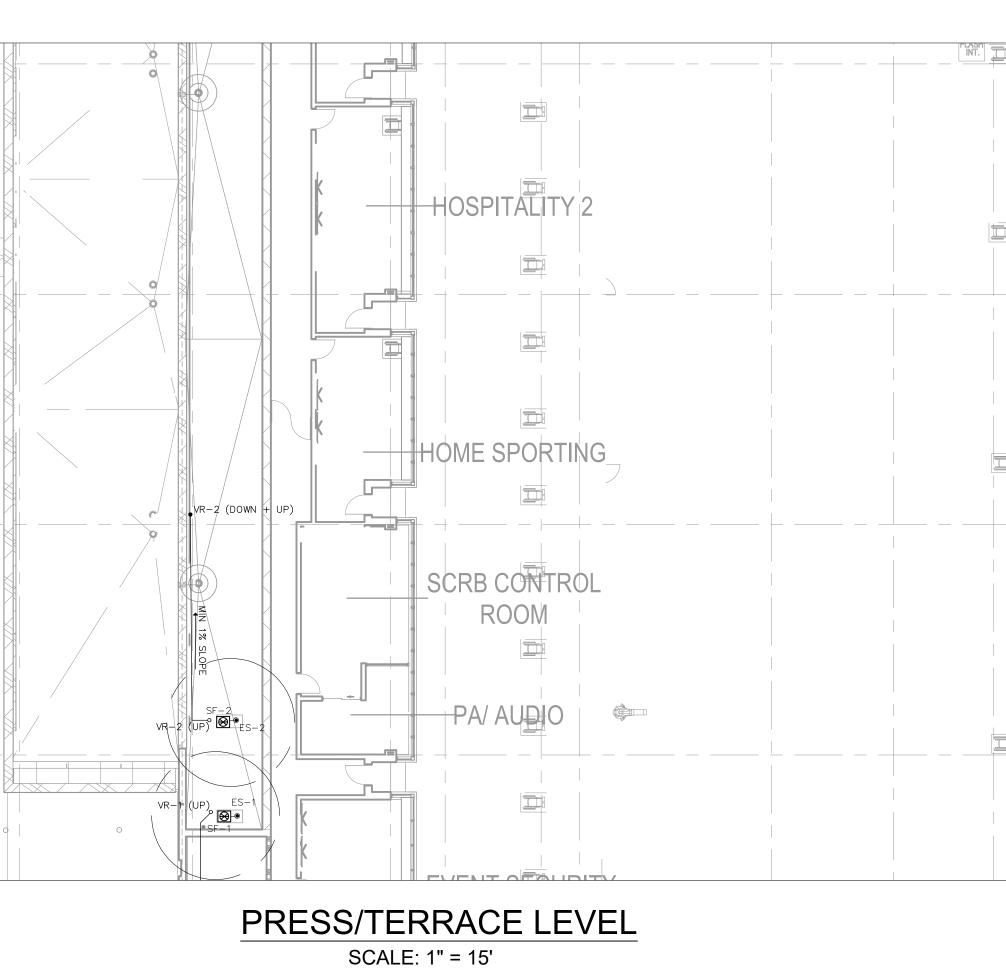
3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR



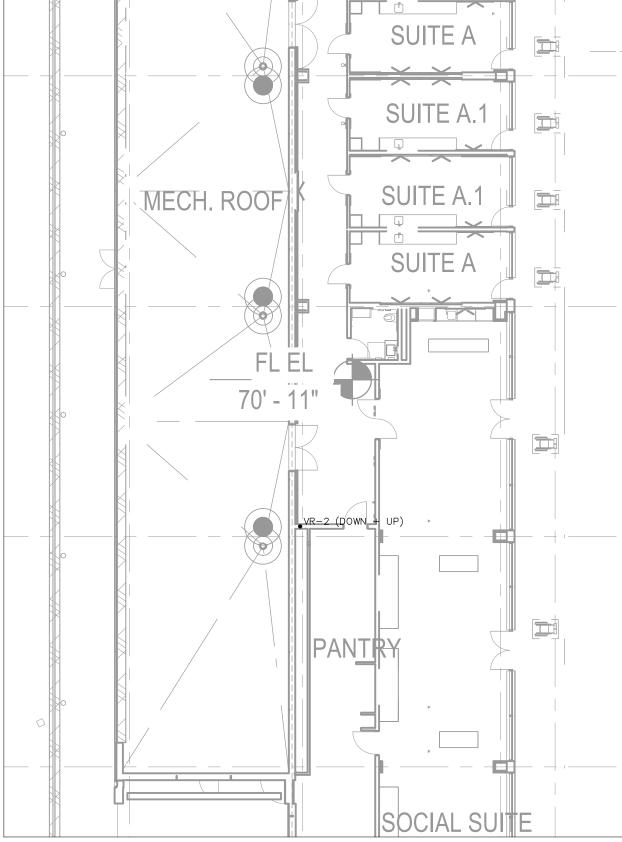


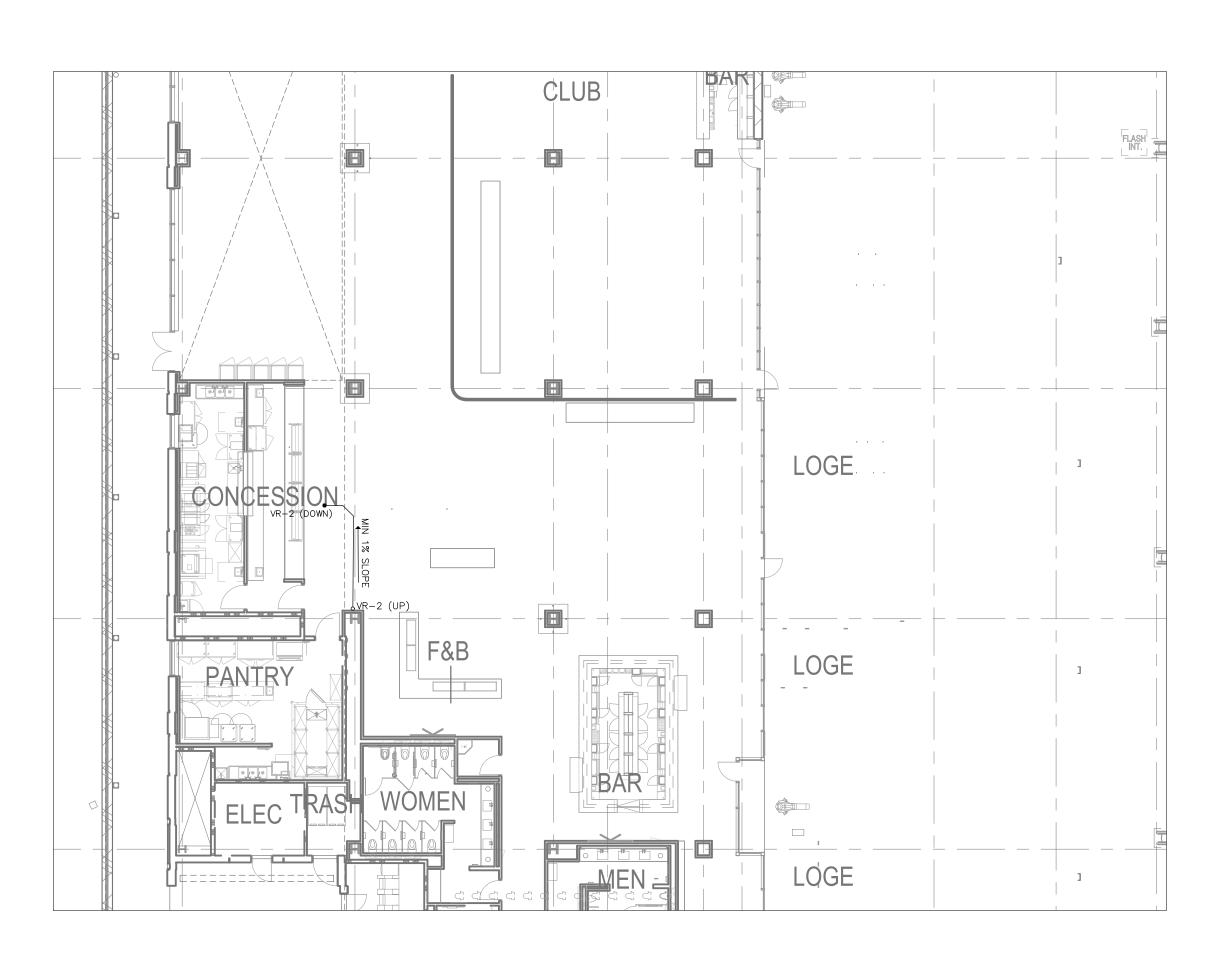
LOWER SUITE LEVEL SCALE: 1" = 15'











SCALE: 1" = 15'

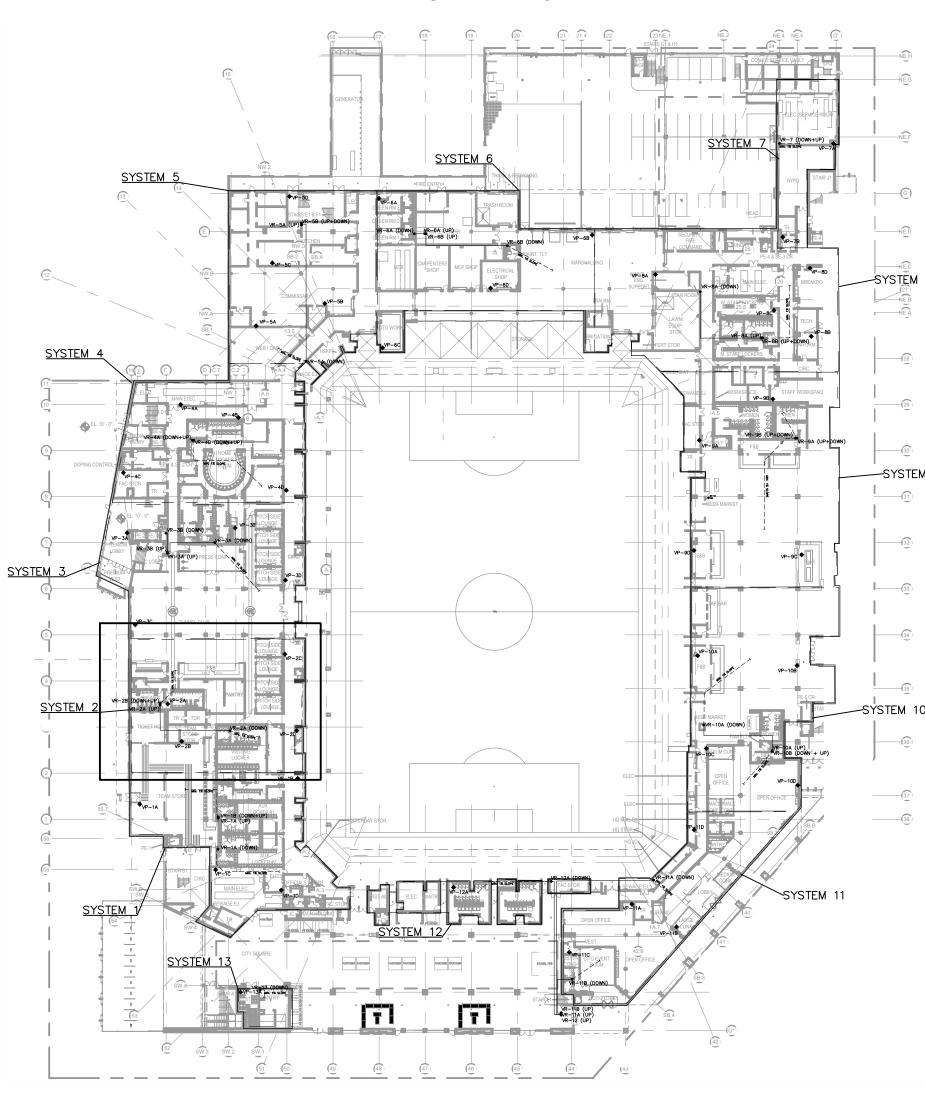
MAIN CONCOURSE LEVEL

	FLASH INT.

LEGEND:	
	4" Ø GA
VR-1	4" VER IDENTI
SF−1 🛞	SUCTIO
DOWN	VERTIC
ES-1	EXHAU
	BUILDII 10-FOO

NOTES:

- TO LANGAN ON MAY 2, 2024.
- RISER PIPE.
- 3. SLAB.





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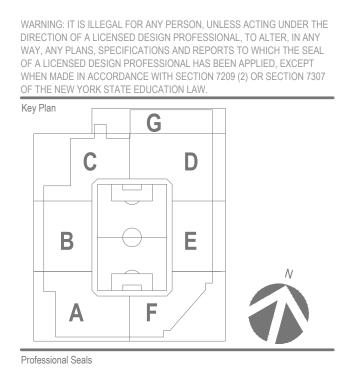




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No.	Description	Date
1	EARLY UNDERGROUND UTILITY PACKAGE	5/16/2
8-Scan		
ackage:	EARLY UNDERGROUND UTILITY PA	
sue Date		GNAGE
roject No:		
Sheet Title		
SUF	B-MEMBRANE	
JEF	PRESSURIZATION	
21/6	STEM 2 RISER PLA	NI
- v •		

H-104.00

ALVANIZED STEEL PIPING

RTICAL RISER AND **IFICATION NUMBER**

ION FAN

ICAL RISER OFFSET

UST STACK

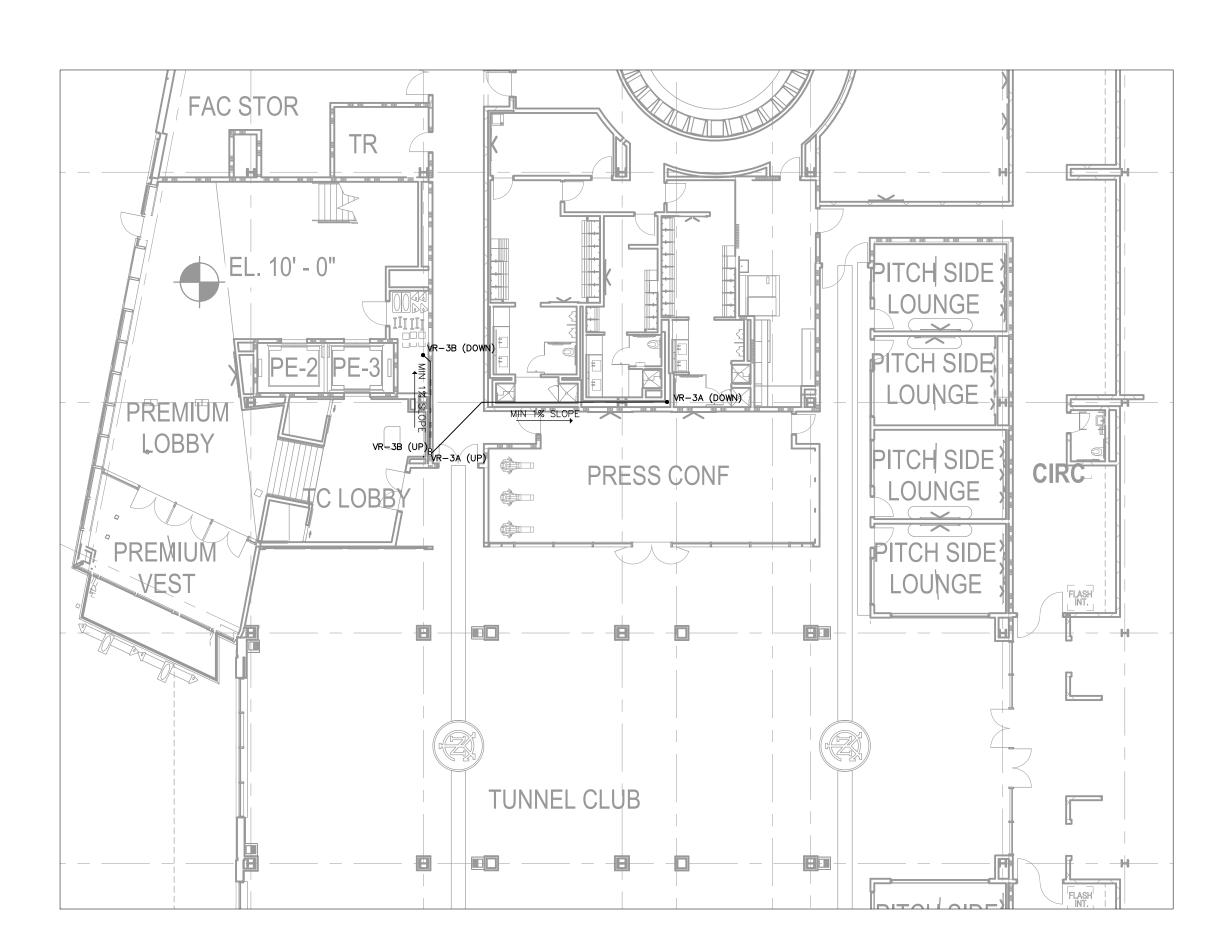
ING AIR INTAKE LOCATION OT RADIUS

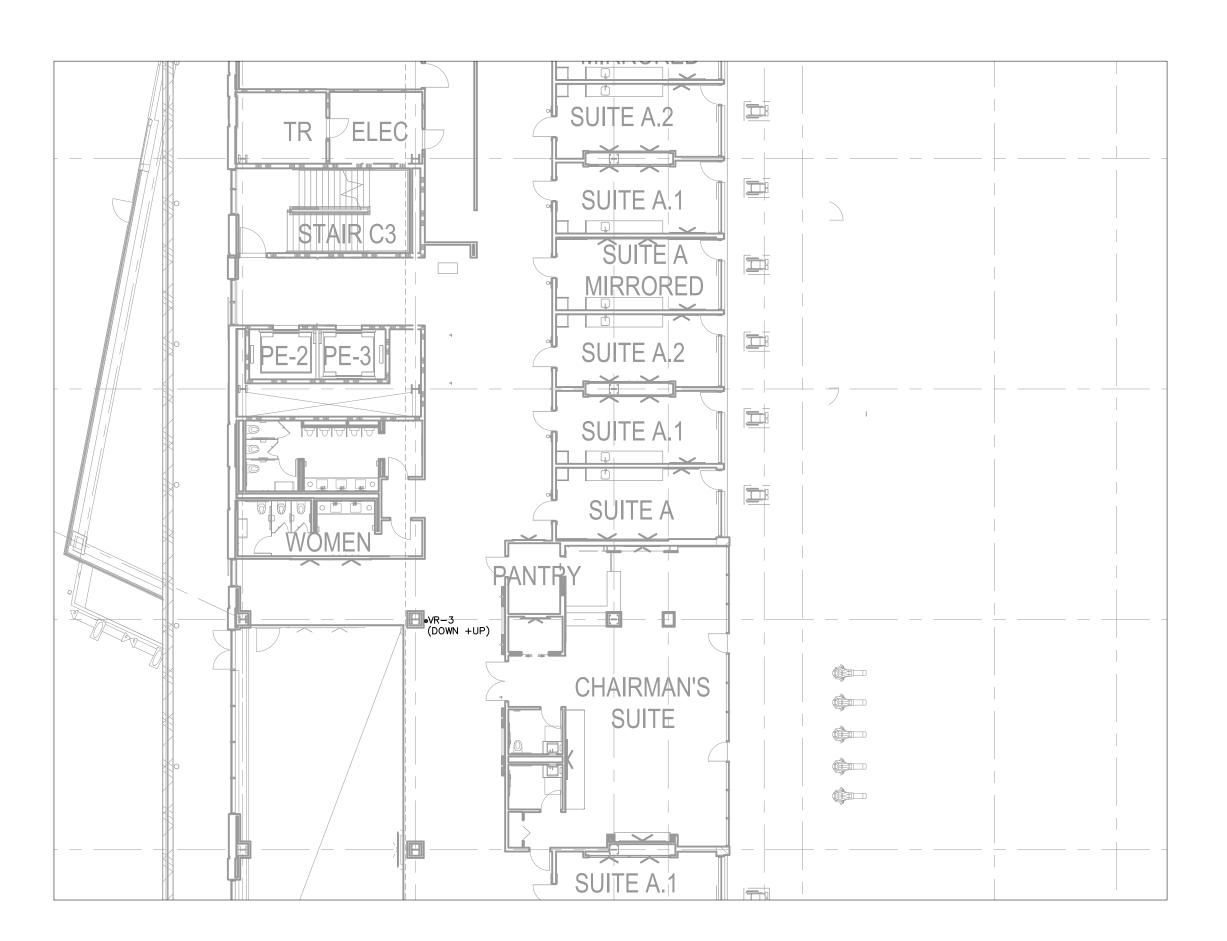
BASE MAP TAKEN FROM EARLY UNDERGROUND UTILITY PACKAGE DEVELOPMENT SET, ARCHITECTURAL DRAWINGS, PREPARED BY HOK, PROVIDED

2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR

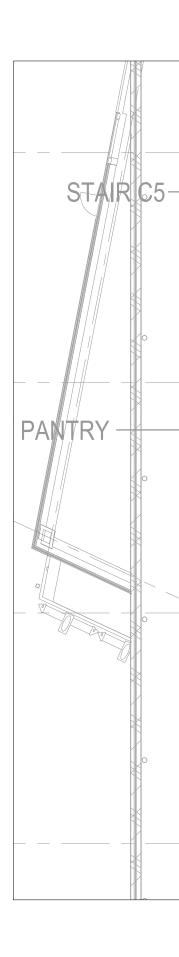
RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR







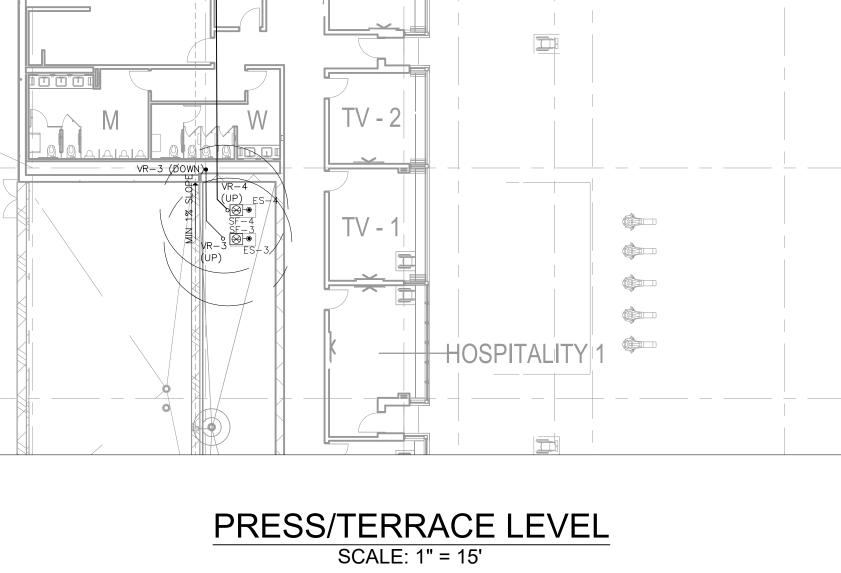
LOWER SUITE LEVEL SCALE: 1" = 15'



TR

ELEC

PE-2 PE-



RADIO

AWA

BOOTH

HOME

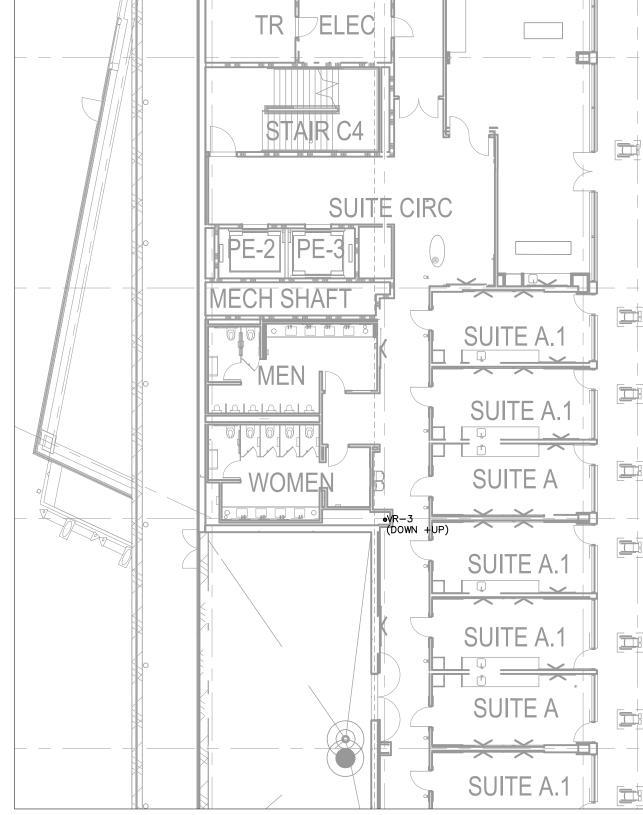
BOOTH

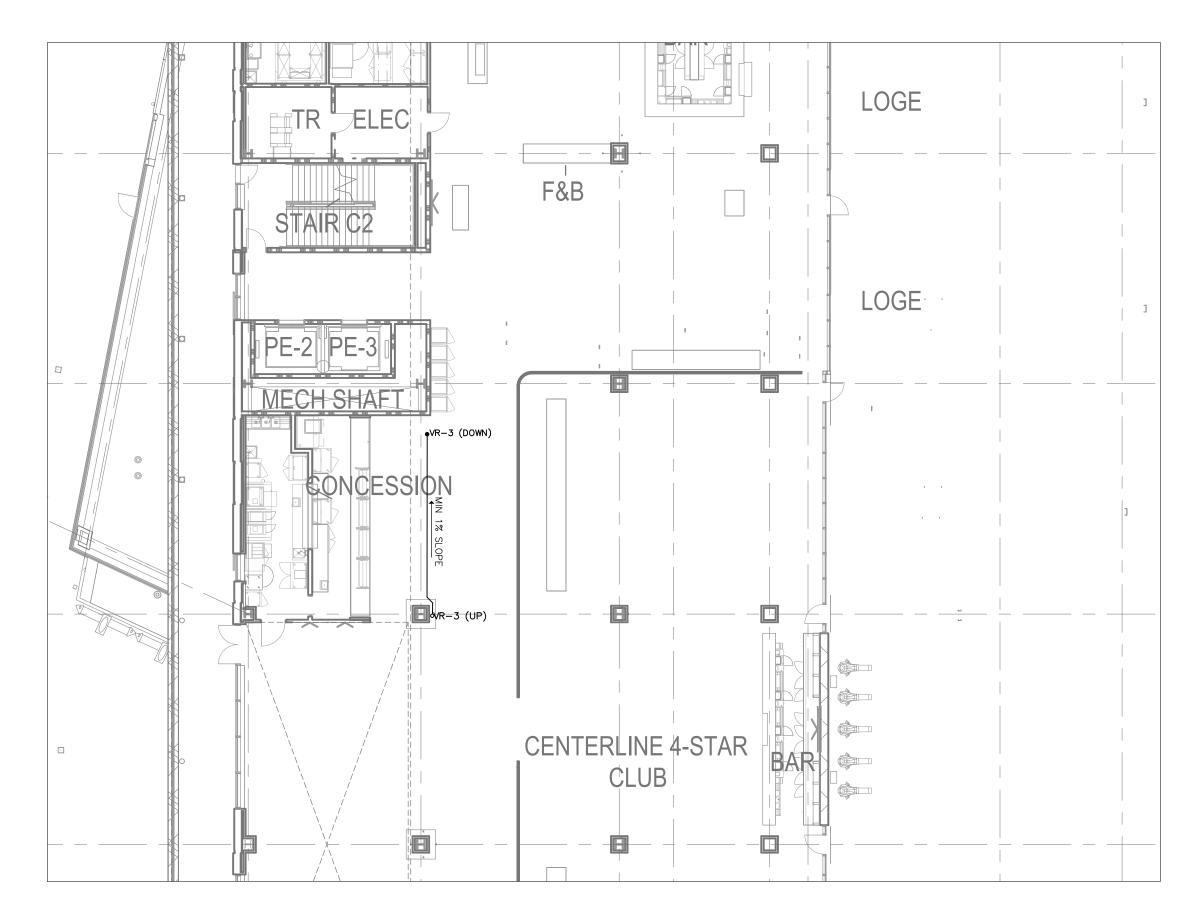
RADIO 4

FL EL

X TV - 3

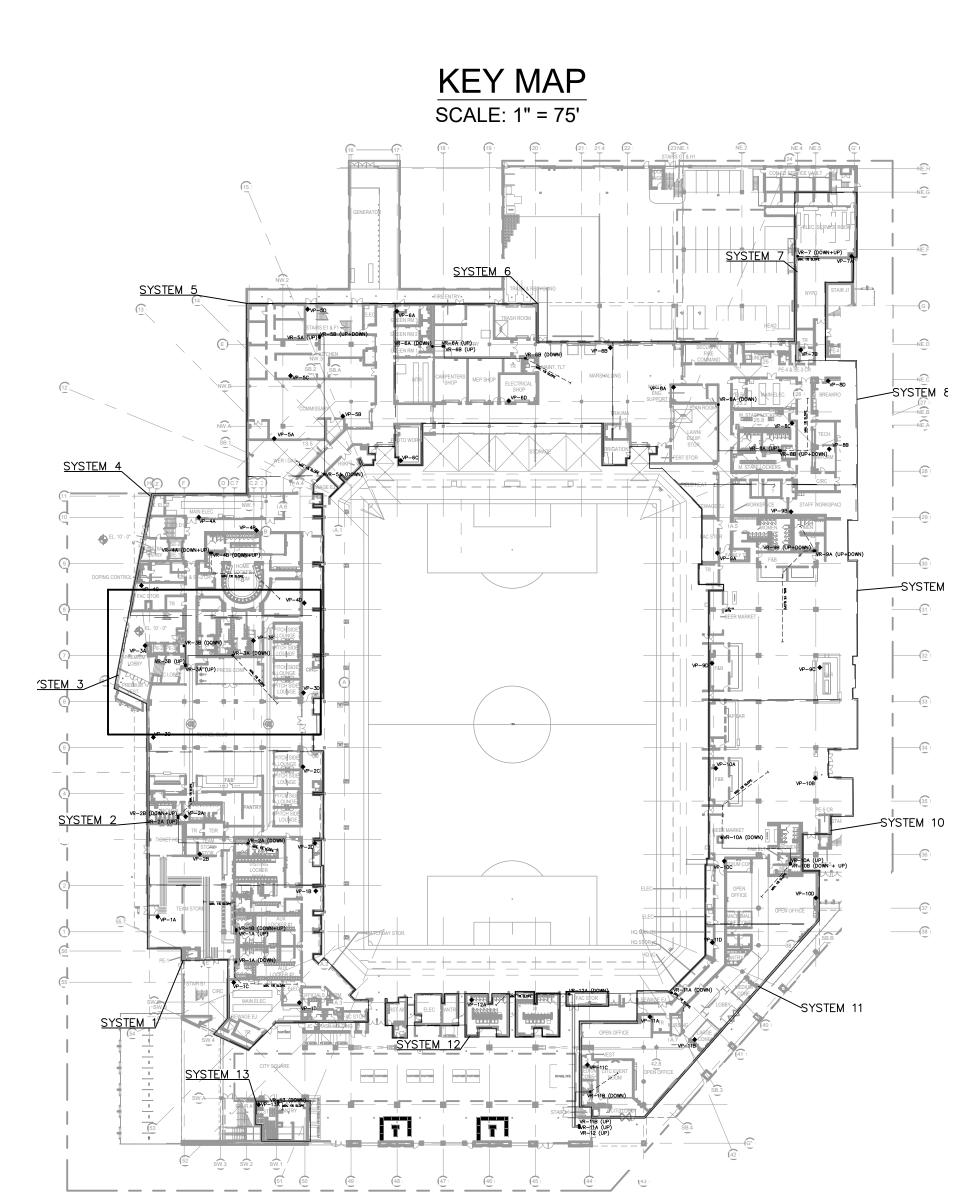






MAIN CONCOURSE LEVEL SCALE: 1" = 15'

	7	



LEGEND: 4" Ø GALVANIZED STEEL PIPING _____ 4" VERTICAL RISER AND VR-1 **IDENTIFICATION NUMBER** SUCTION FAN SF-1 DOWN VERTICAL RISER OFFSET)_____ EXHAUST STACK ES-1 ()

NOTES:

- RISER PIPE.
- SLAB.

- TO LANGAN ON MAY 2, 2024.



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SUB-MEMBRANE DEPRESSURIZATION SYSTEM 3 RISER PLAN

H-105.00

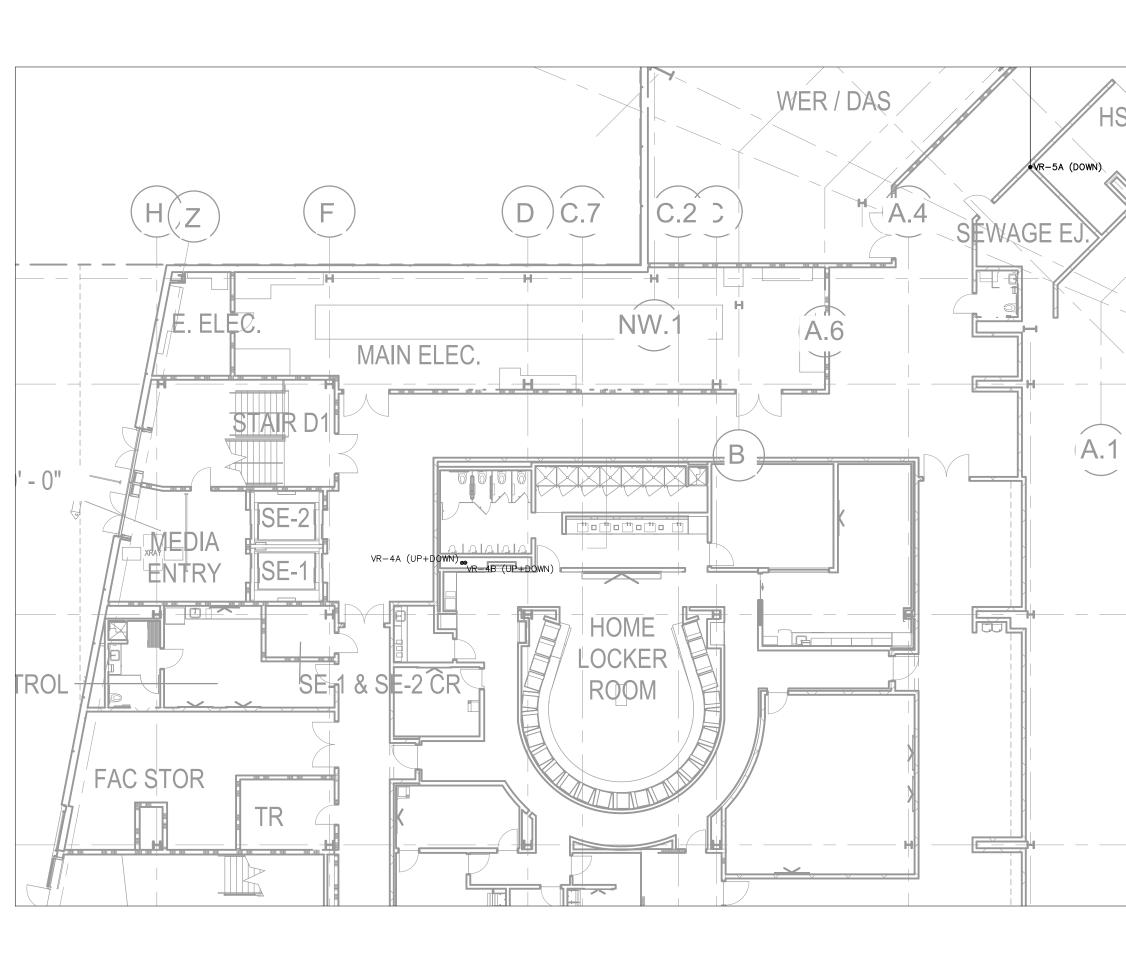
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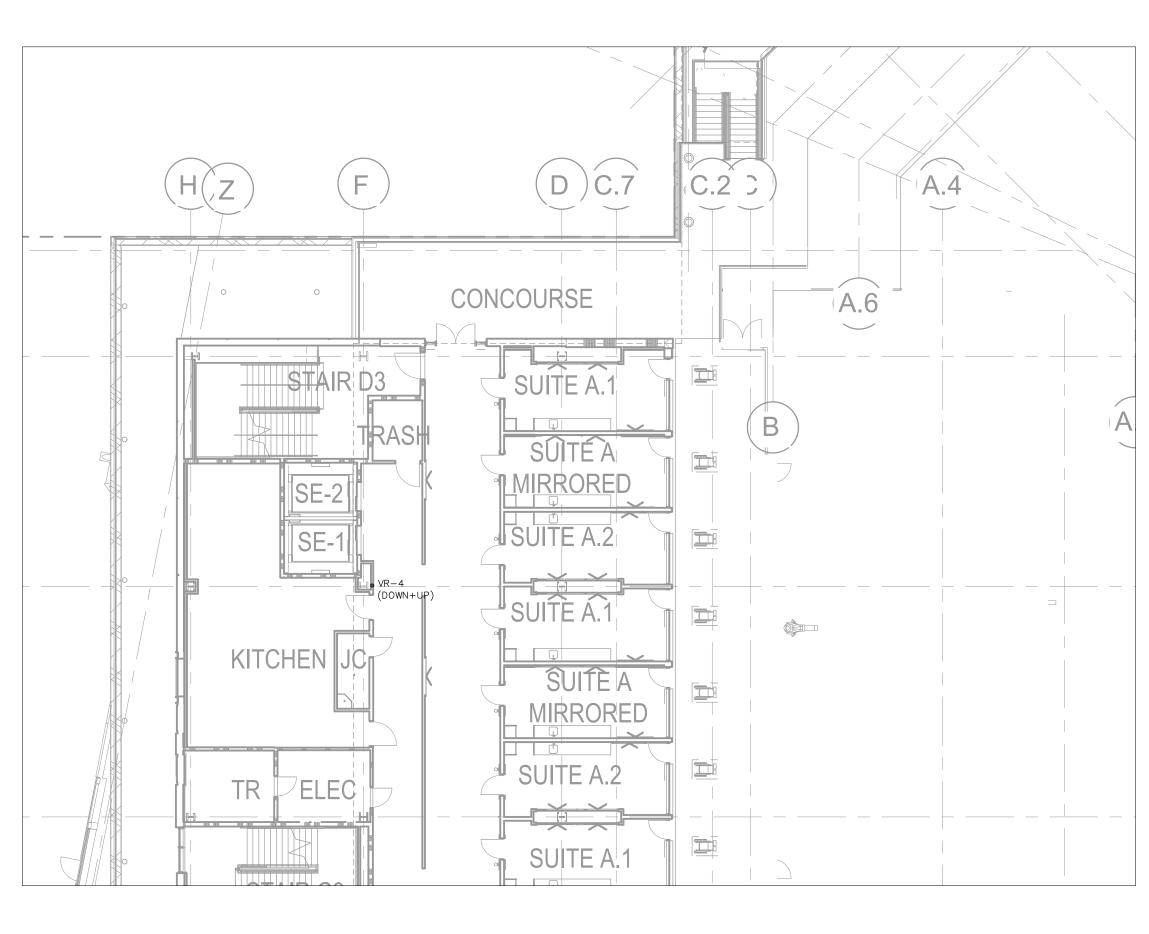
BUILDING AIR INTAKE LOCATION 10-FOOT RADIUS

BASE MAP TAKEN FROM EARLY UNDERGROUND UTILITY PACKAGE DEVELOPMENT SET, ARCHITECTURAL DRAWINGS, PREPARED BY HOK, PROVIDED

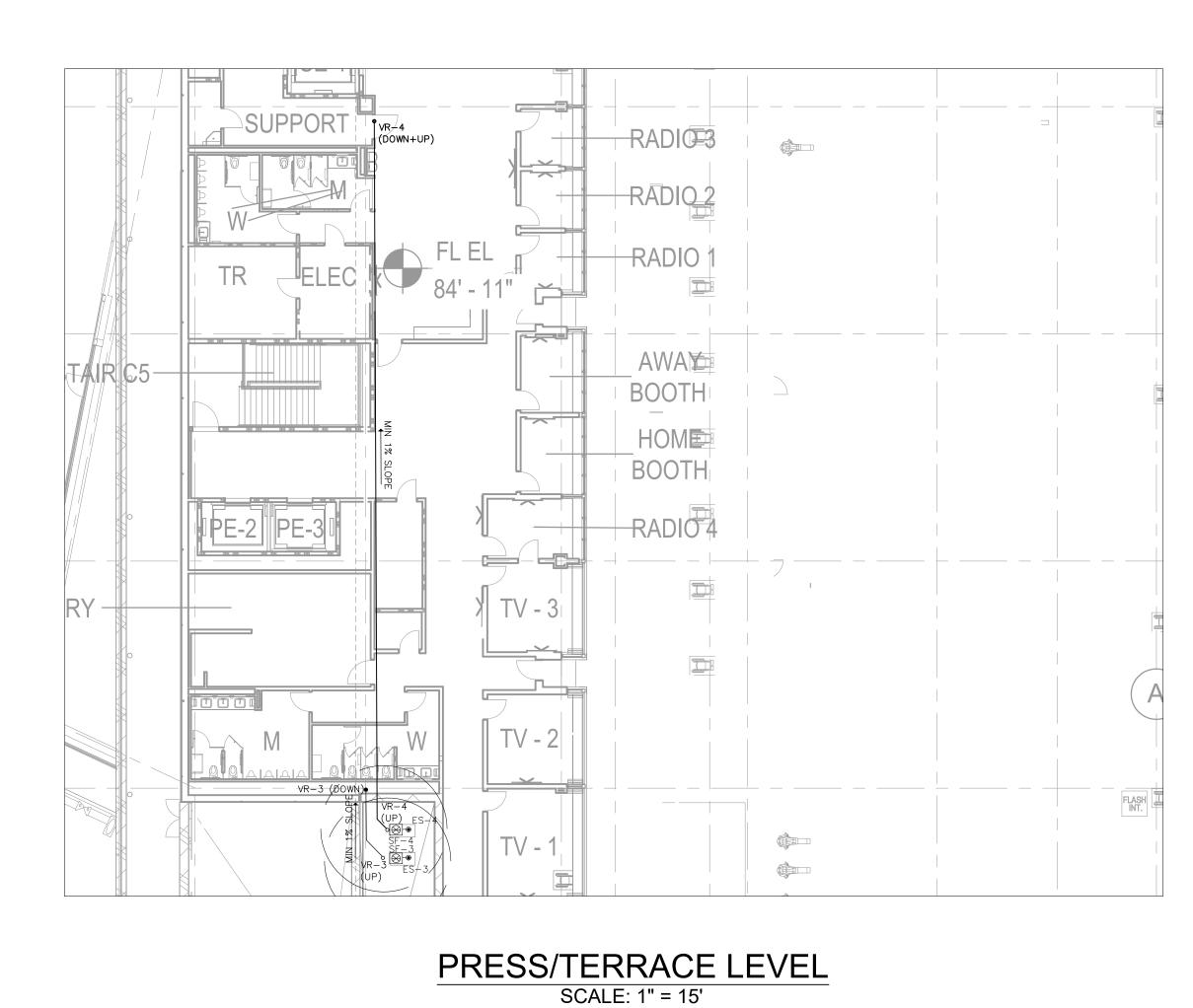
2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR

3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR

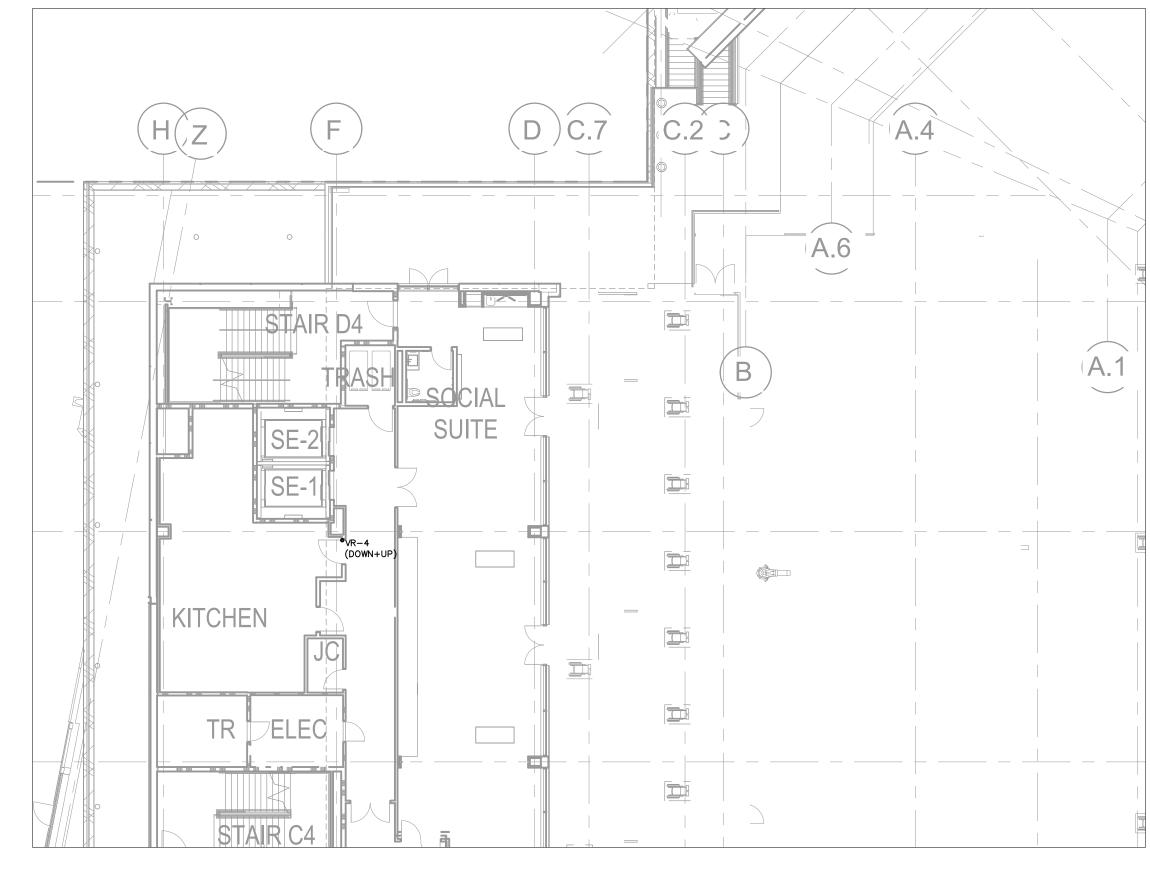


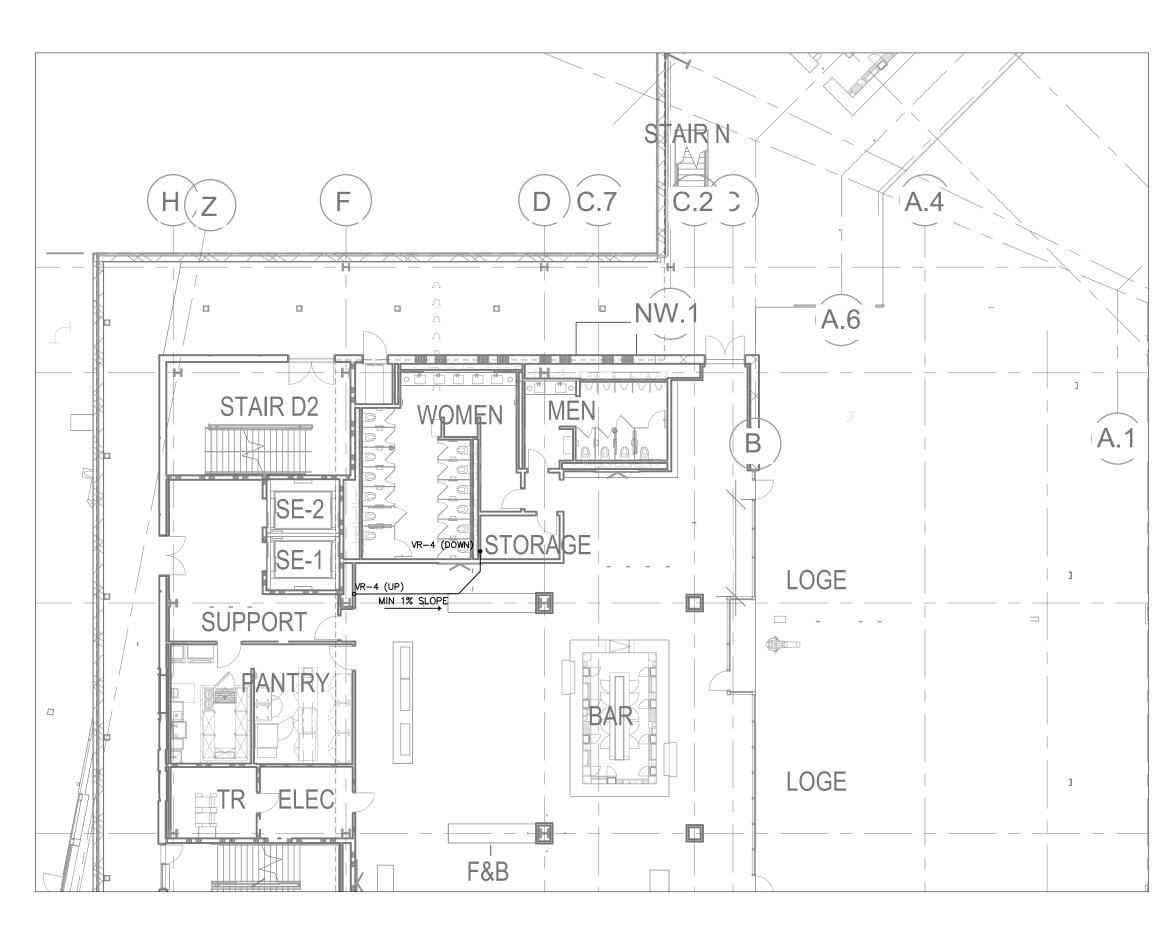


LOWER SUITE LEVEL SCALE: 1" = 15'





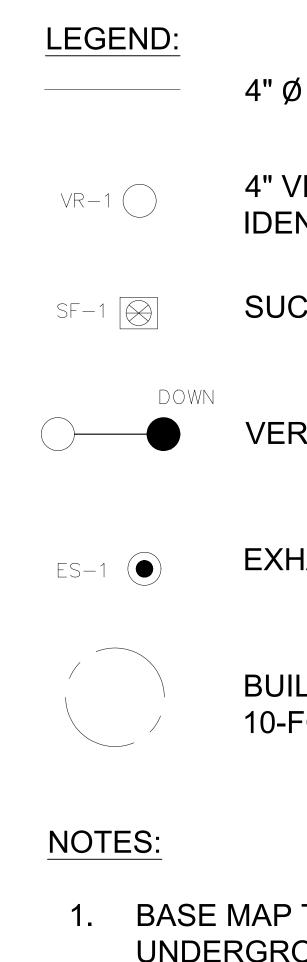




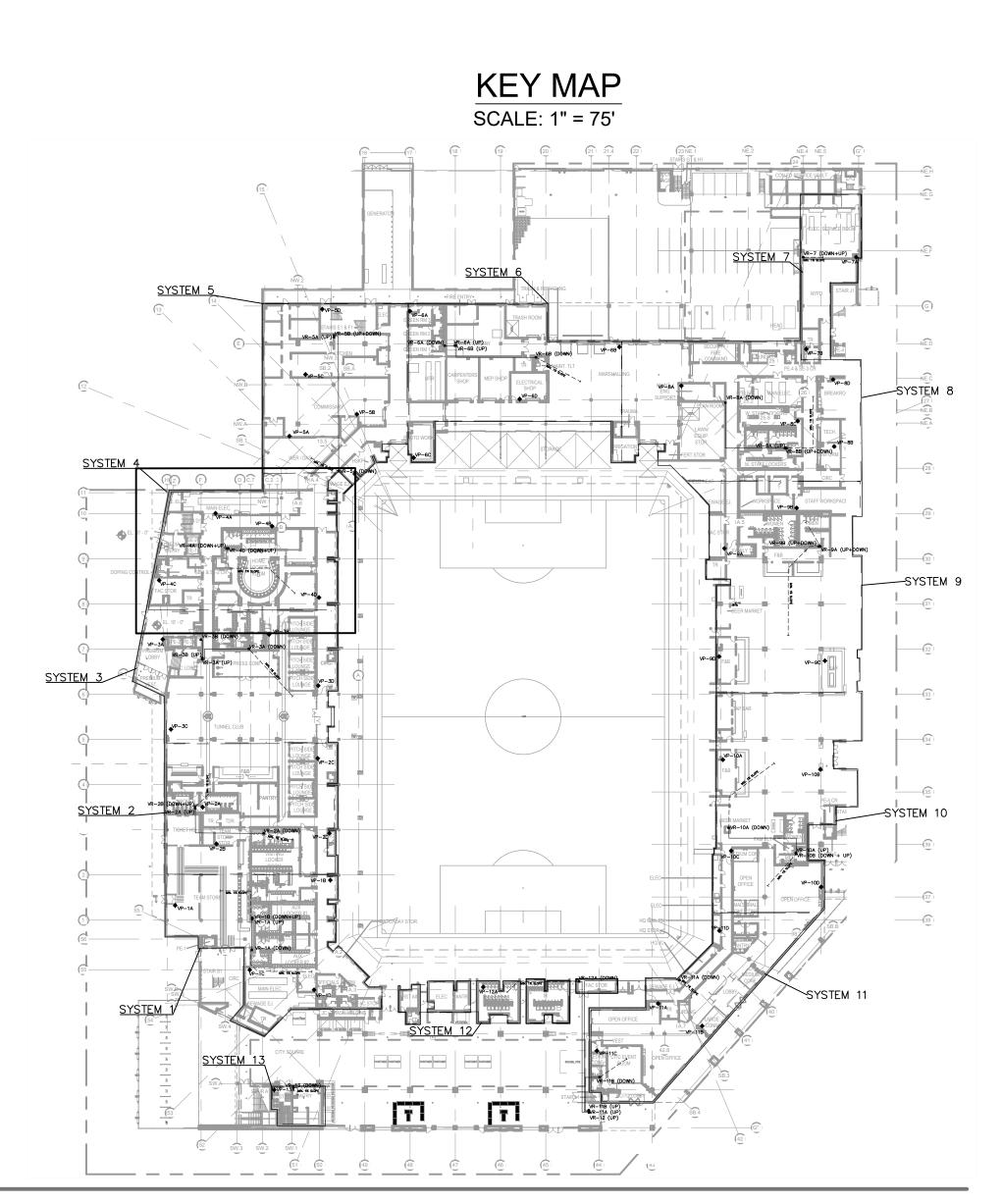
MAIN CONCOURSE LEVEL SCALE: 1" = 15'







- RISER PIPE.
- SLAB.





Project NYCFC WILLETS POINT STADIUM FLUSHING, NY 11368

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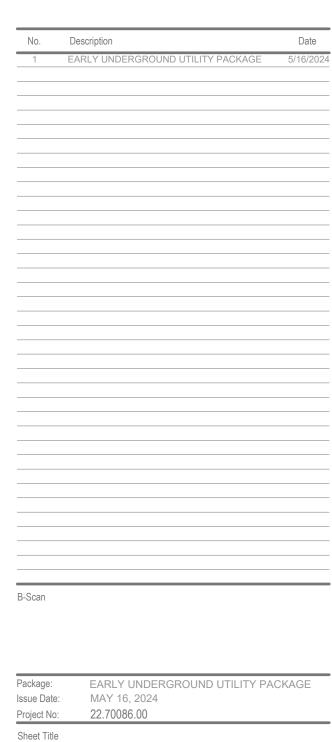


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SUB-MEMBRANE DEPRESSURIZATION SYSTEM 4 RISER PLAN

H-106.00

4" Ø GALVANIZED STEEL PIPING

4" VERTICAL RISER AND **IDENTIFICATION NUMBER**

SUCTION FAN

VERTICAL RISER OFFSET

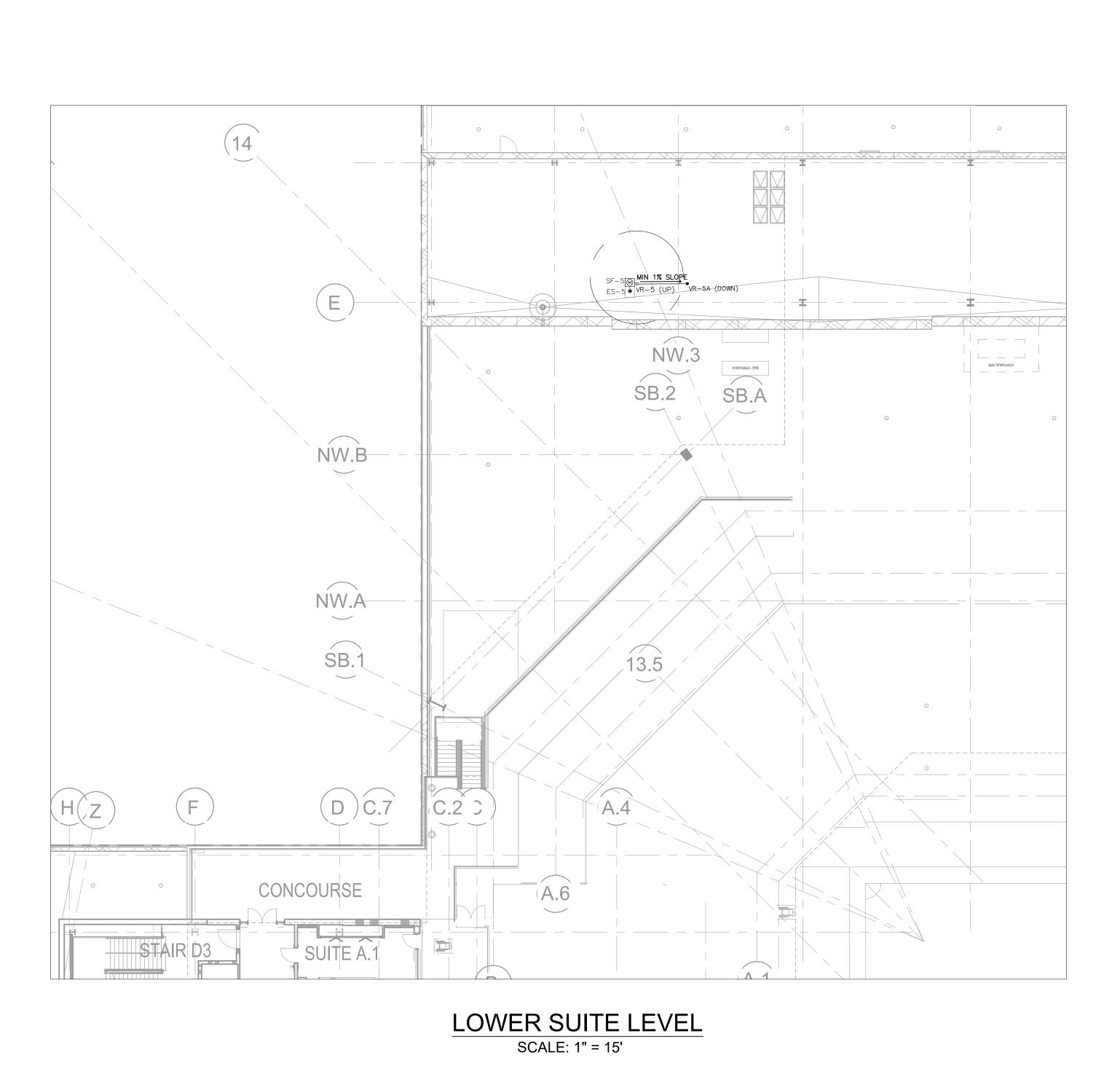
EXHAUST STACK

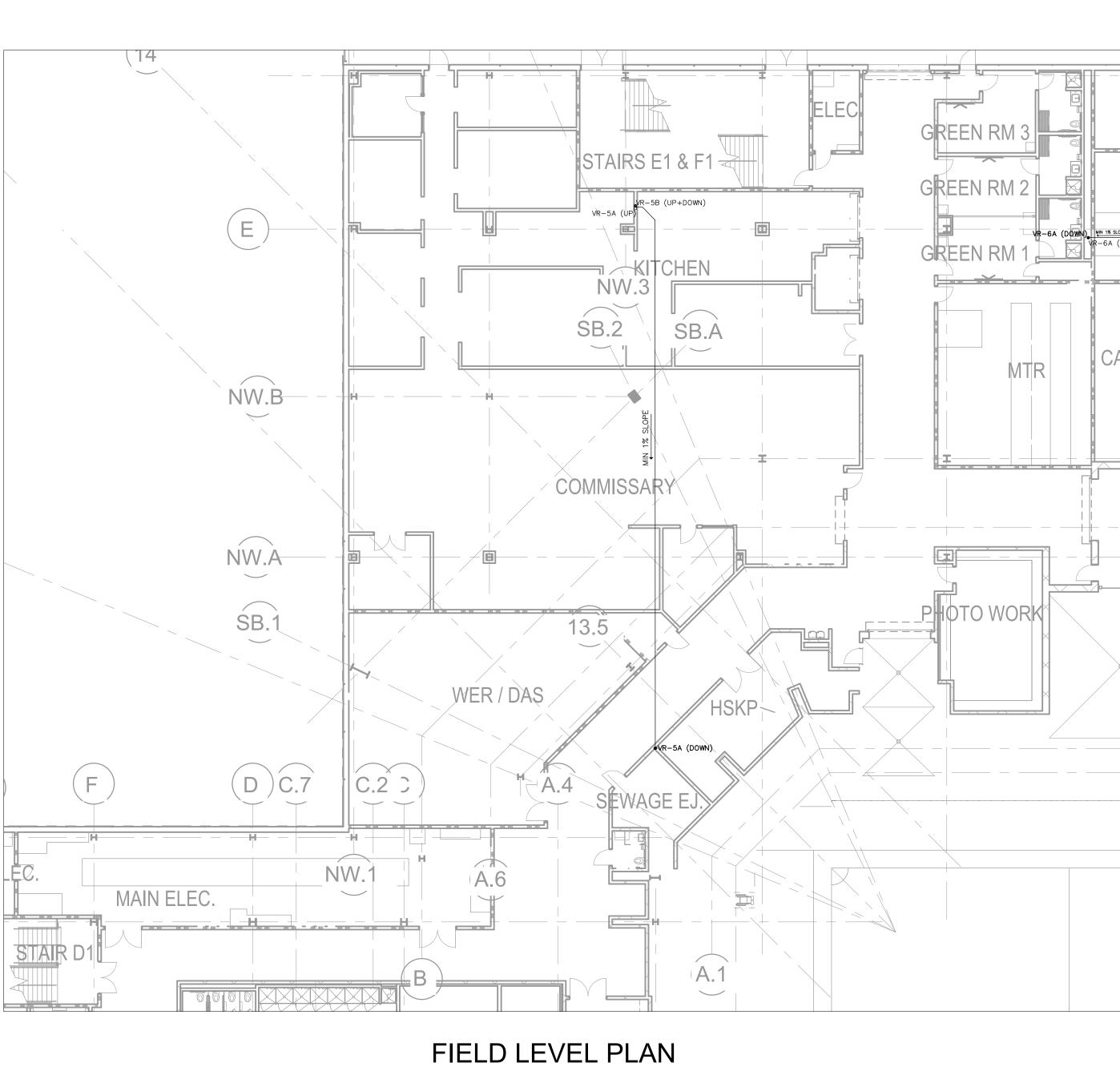
BUILDING AIR INTAKE LOCATION 10-FOOT RADIUS

BASE MAP TAKEN FROM EARLY UNDERGROUND UTILITY PACKAGE DEVELOPMENT SET, ARCHITECTURAL DRAWINGS, PREPARED BY HOK, PROVIDED TO LANGAN ON MAY 2, 2024.

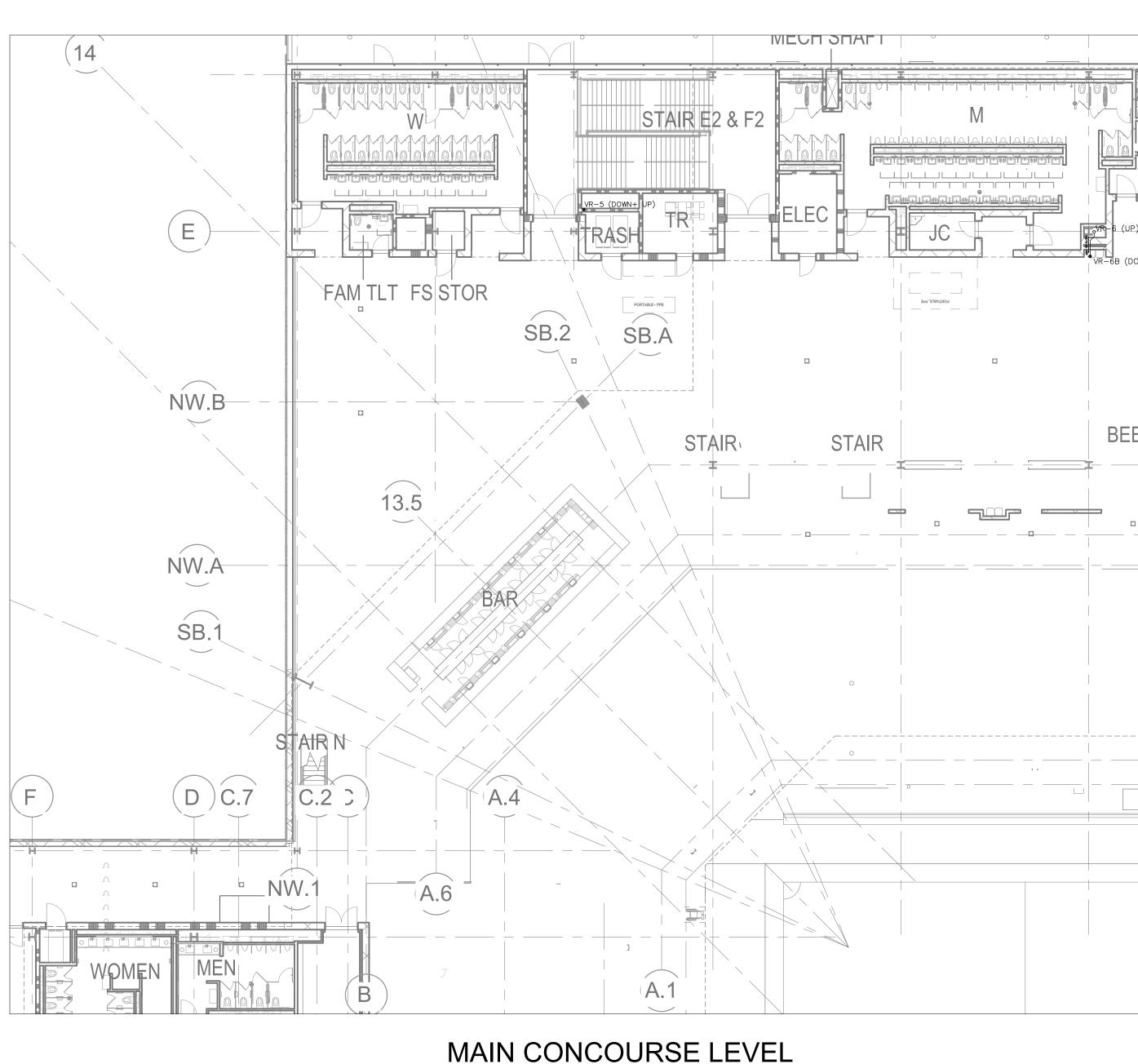
2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR

3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR





SCALE: 1" = 15'

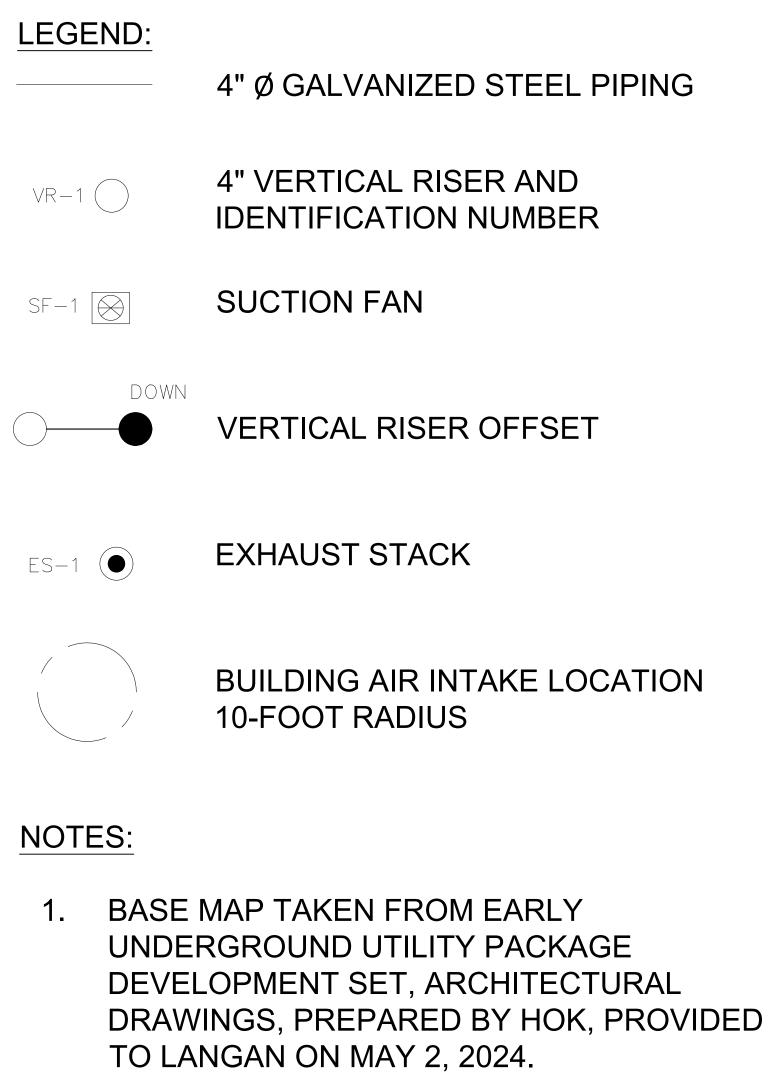


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ES-1 ()

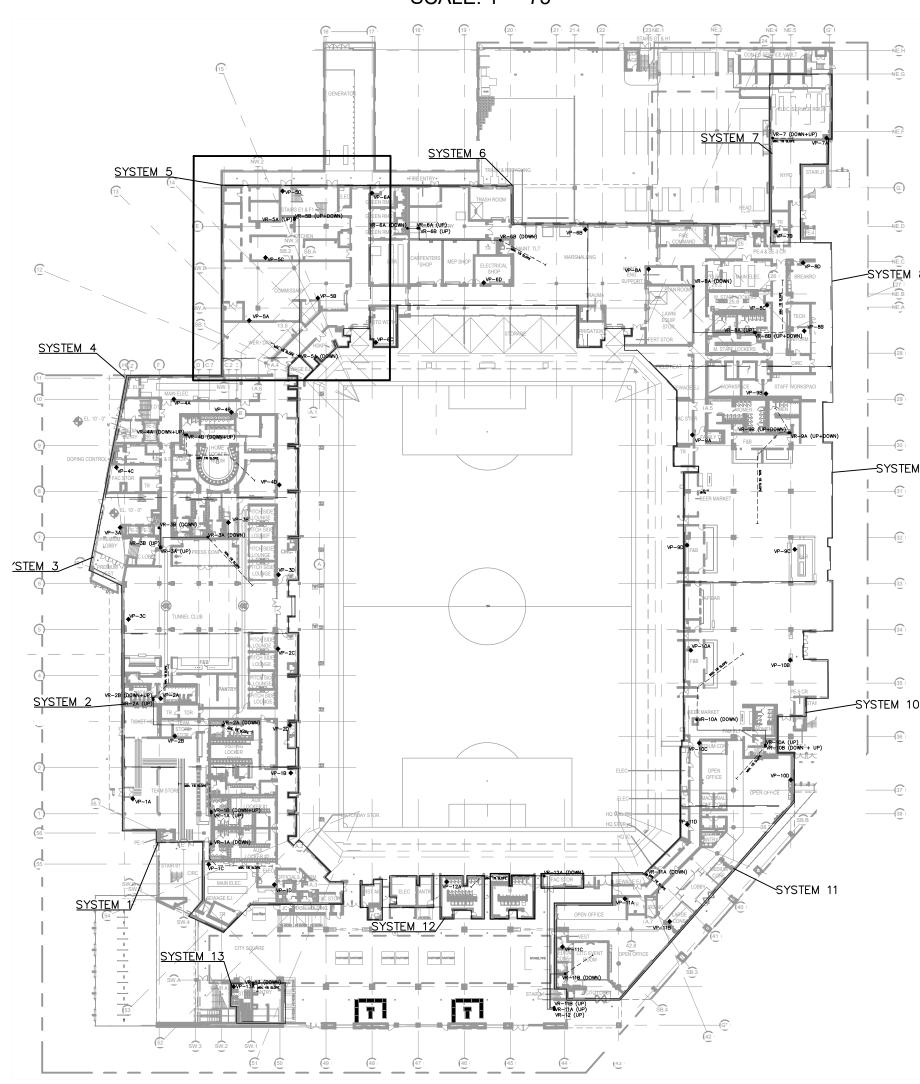
NOTES:

MAIN CONCOURSE LEVEL SCALE: 1" = 15'



2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR RISER PIPE.

3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR SLAB.





Project NYCFC WILLETS POINT STADIUM FLUSHING, NY 11368

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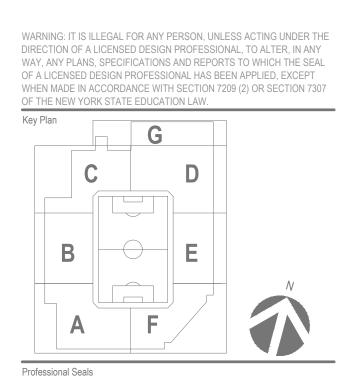




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Life Safety 141 Longwater Drive, Suite 110 Norwell, MA 02061 Tel: 508-577-0429



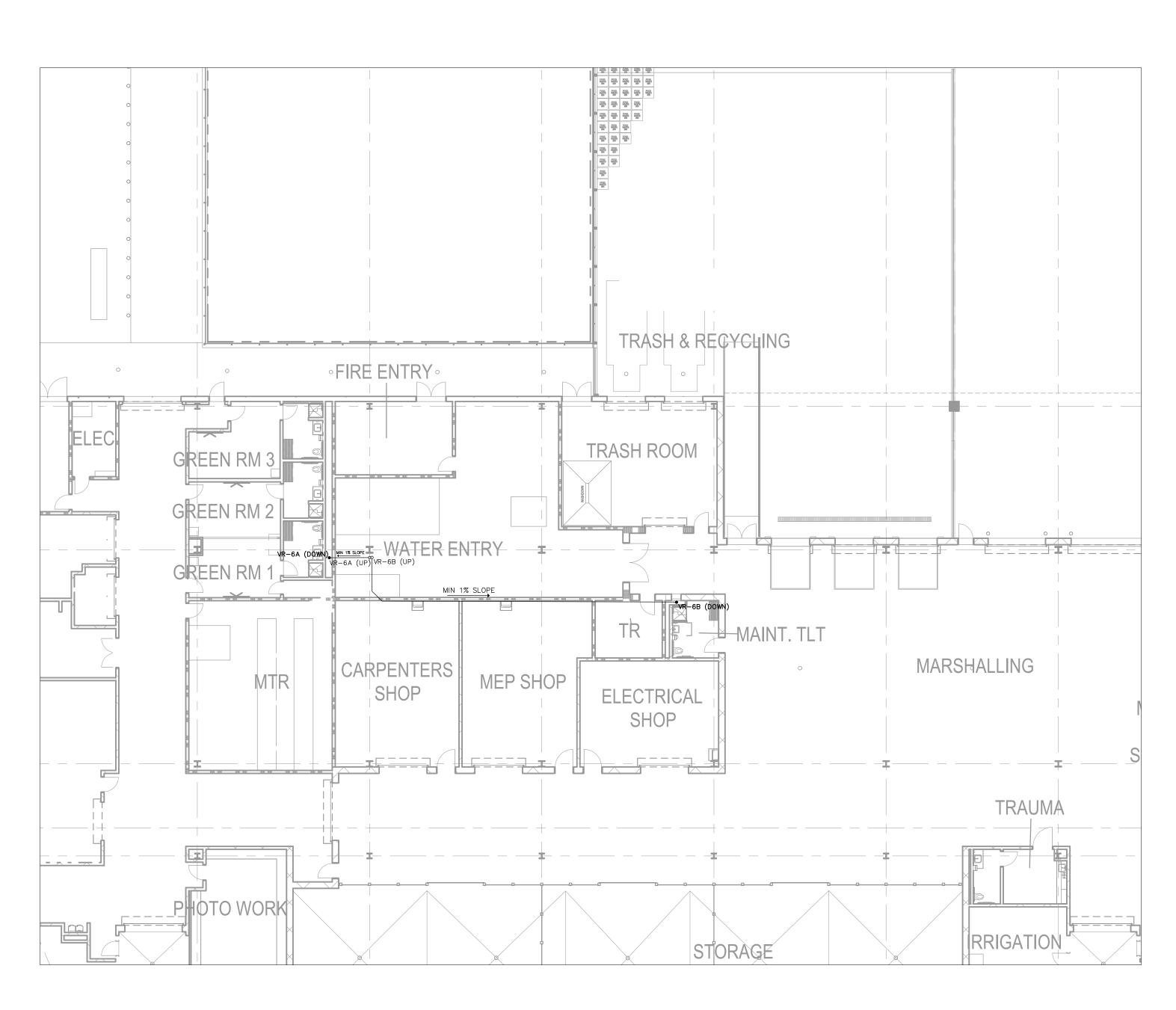
NOT FOR CONSTRUCTION

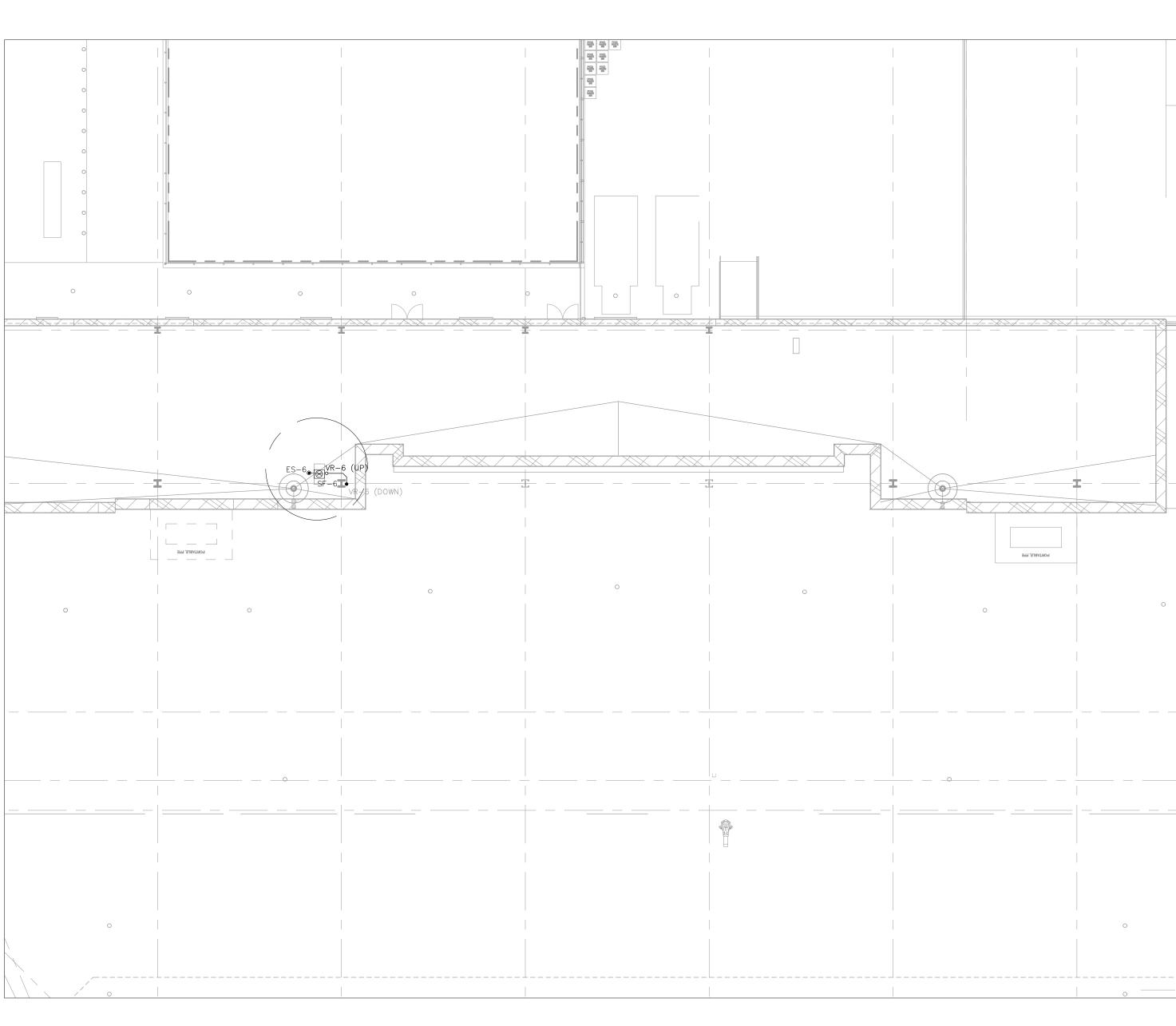


SUB-MEMBRANE DEPRESSURIZATION SYSTEM 5 RISER PLAN

H-107.00

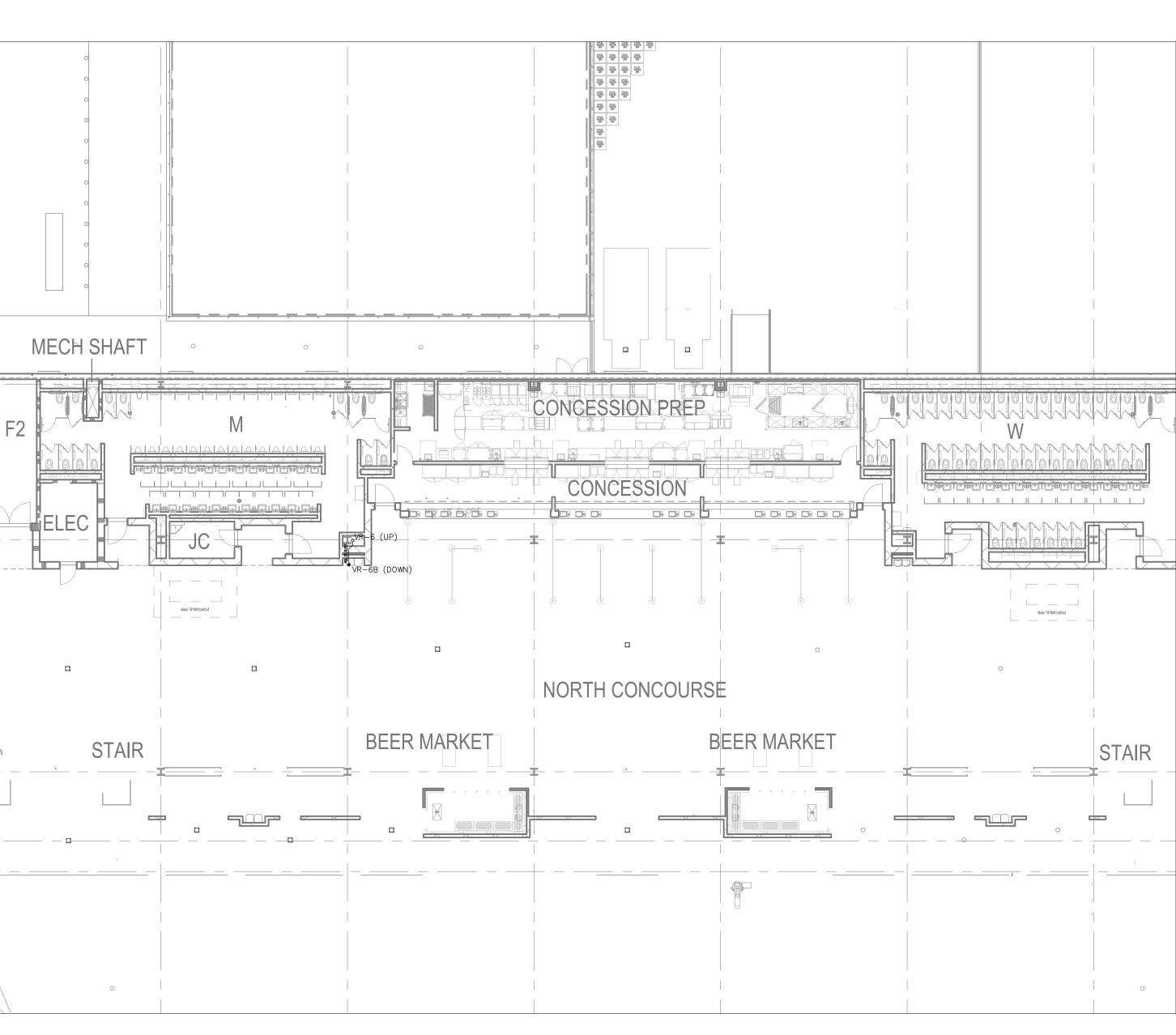
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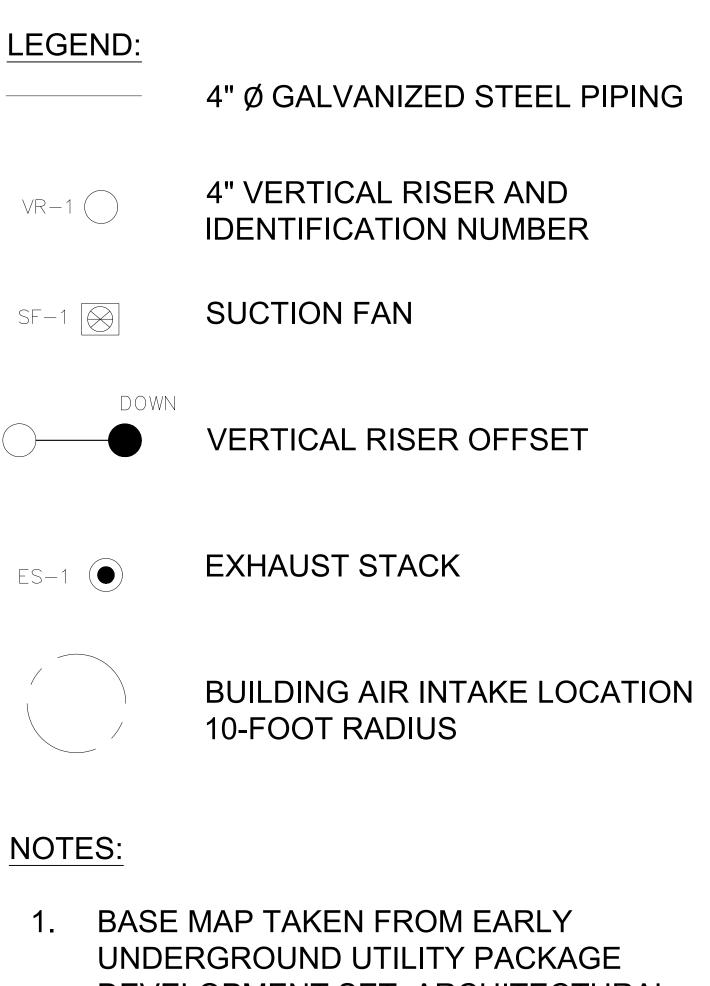


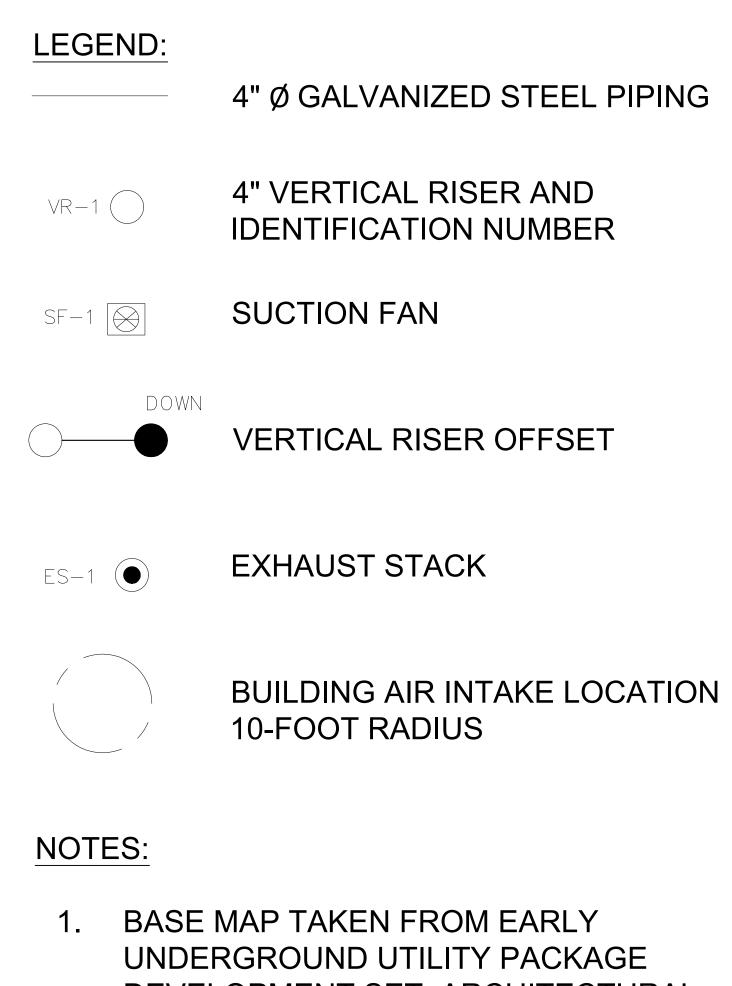


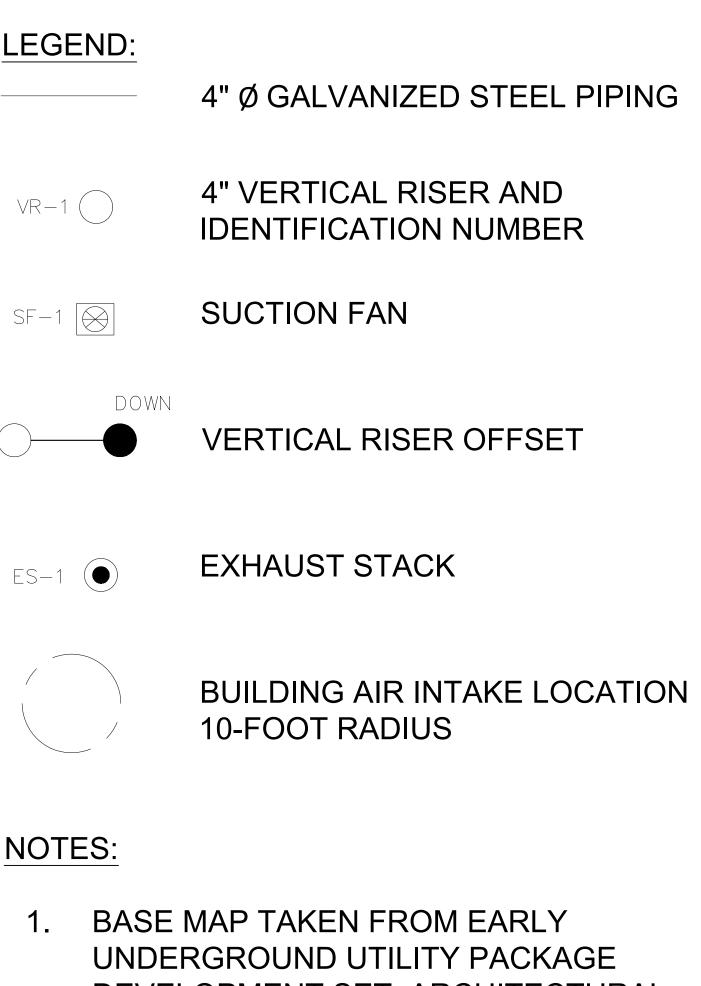
LOWER SUITE LEVEL SCALE: 1" = 15'

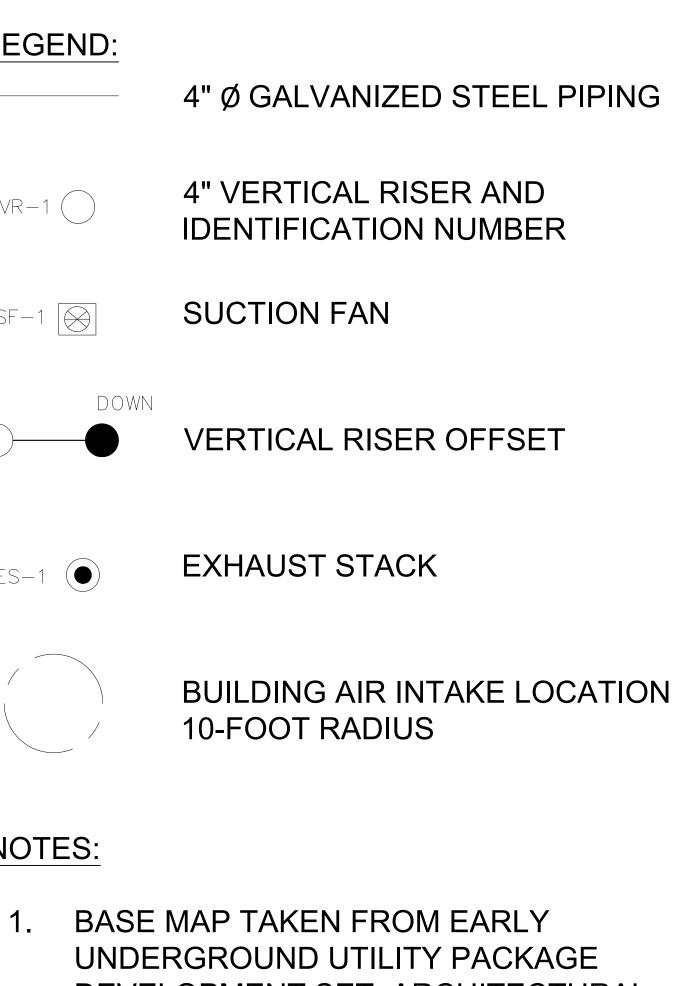


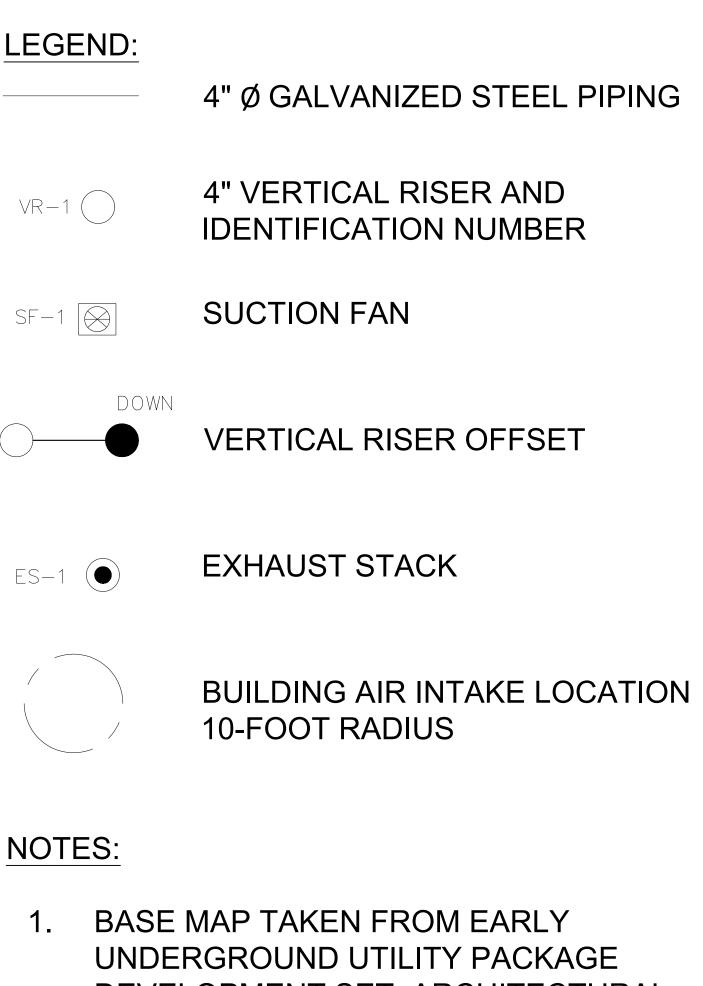


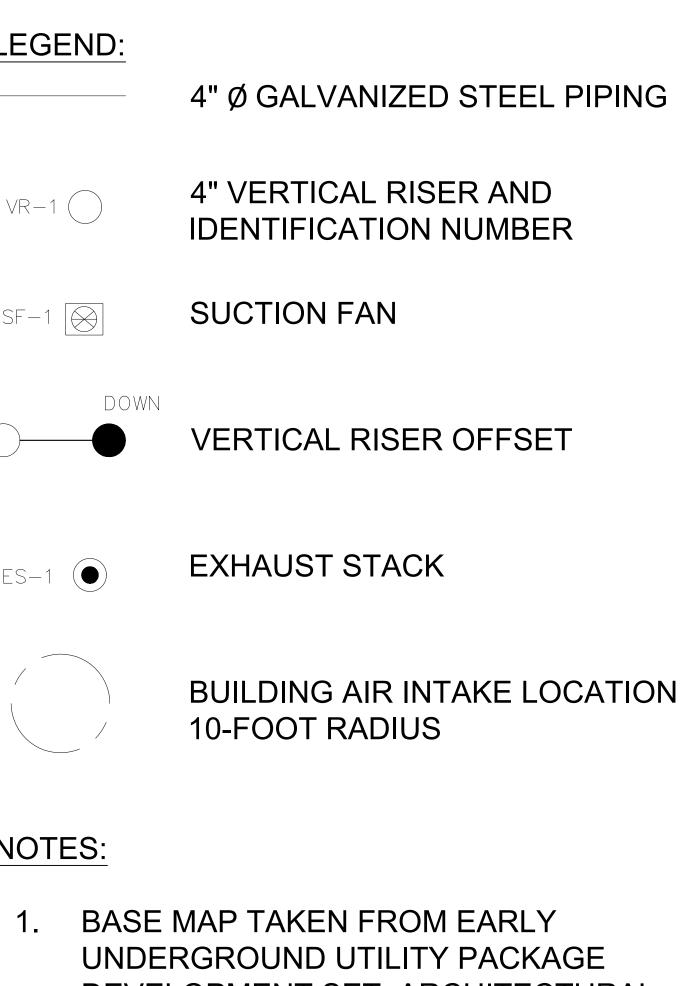












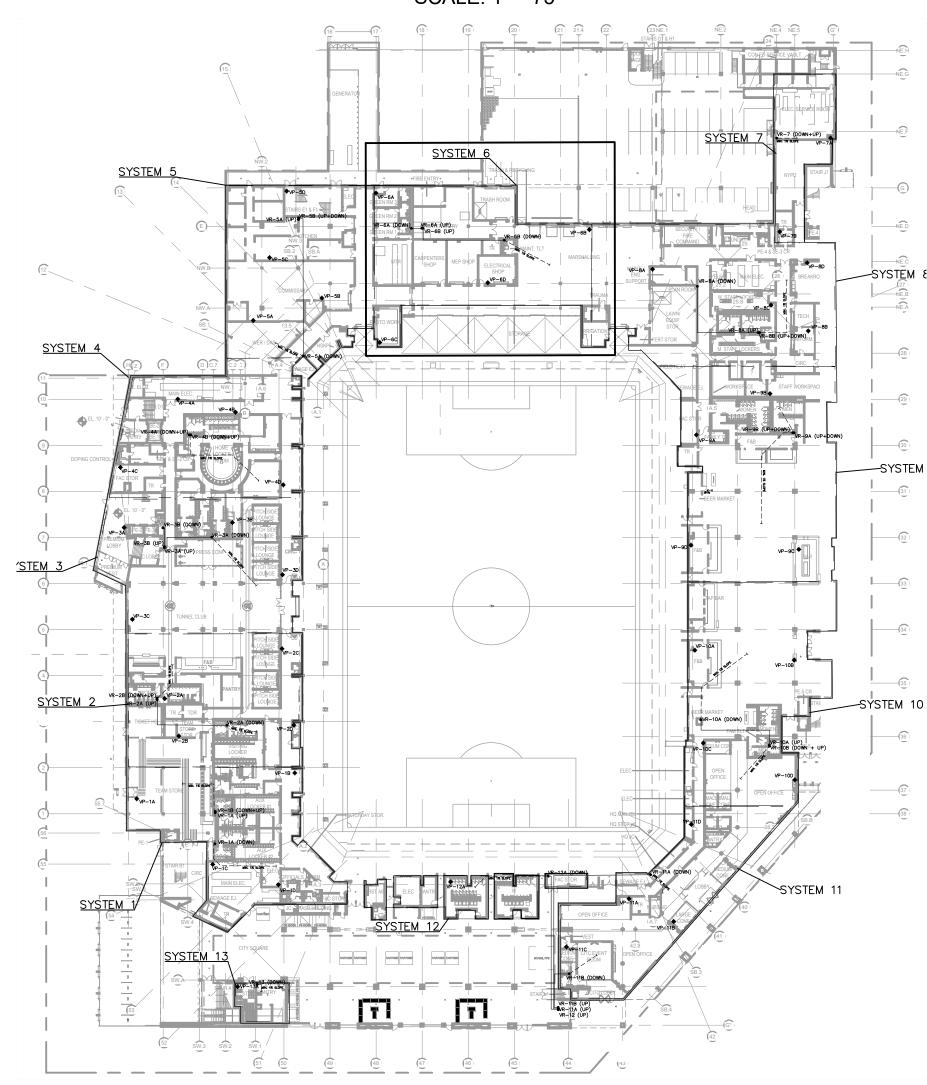
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2.	RIS AS TH AN RIS
3.	RIS

MAIN CONCOURSE LEVEL SCALE: 1" = 15'

EVELOPMENT SET, ARCHITECTURAL RAWINGS, PREPARED BY HOK, PROVIDED LANGAN ON MAY 2, 2024.

ISER PIPE SLAB PENETRATIONS LABELED **S "DOWN" INDICATE LOACTIONS WHERE** HE RISER PIPE IS PENETRATING THE SLAB ND CONNECTING TO THE LOWER FLOOR ISER PIPE.

ISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR SLAB.





Project NYCFC WILLETS POINT STADIUM FLUSHING, NY 11368

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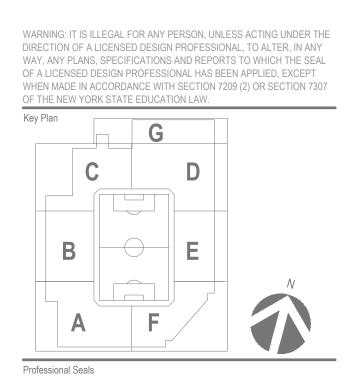




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HOWE ENGINEERS, INC Life Safety 141 Longwater Drive, Suite 110 Norwell, MA 02061 Tel: 508-577-0429

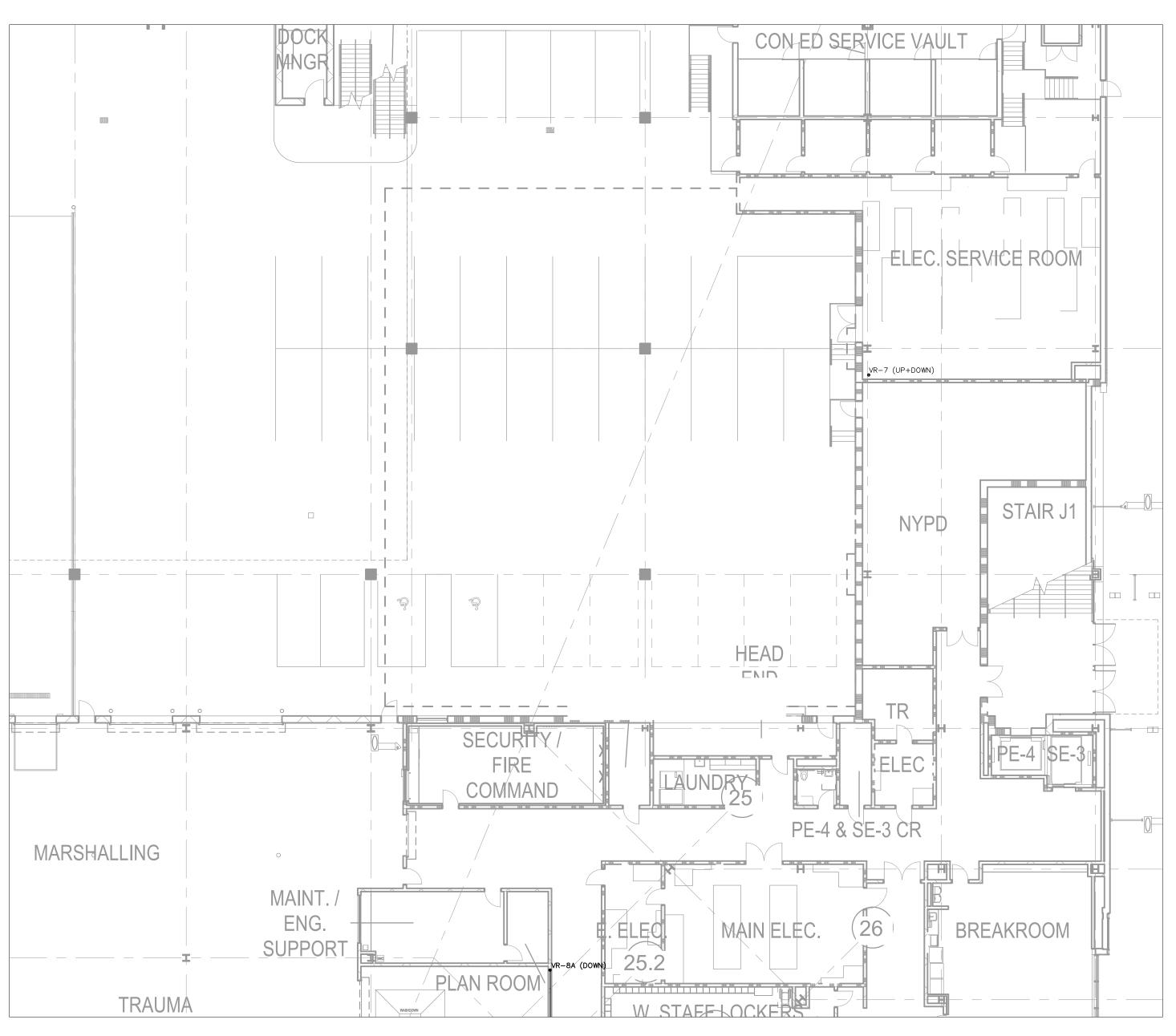


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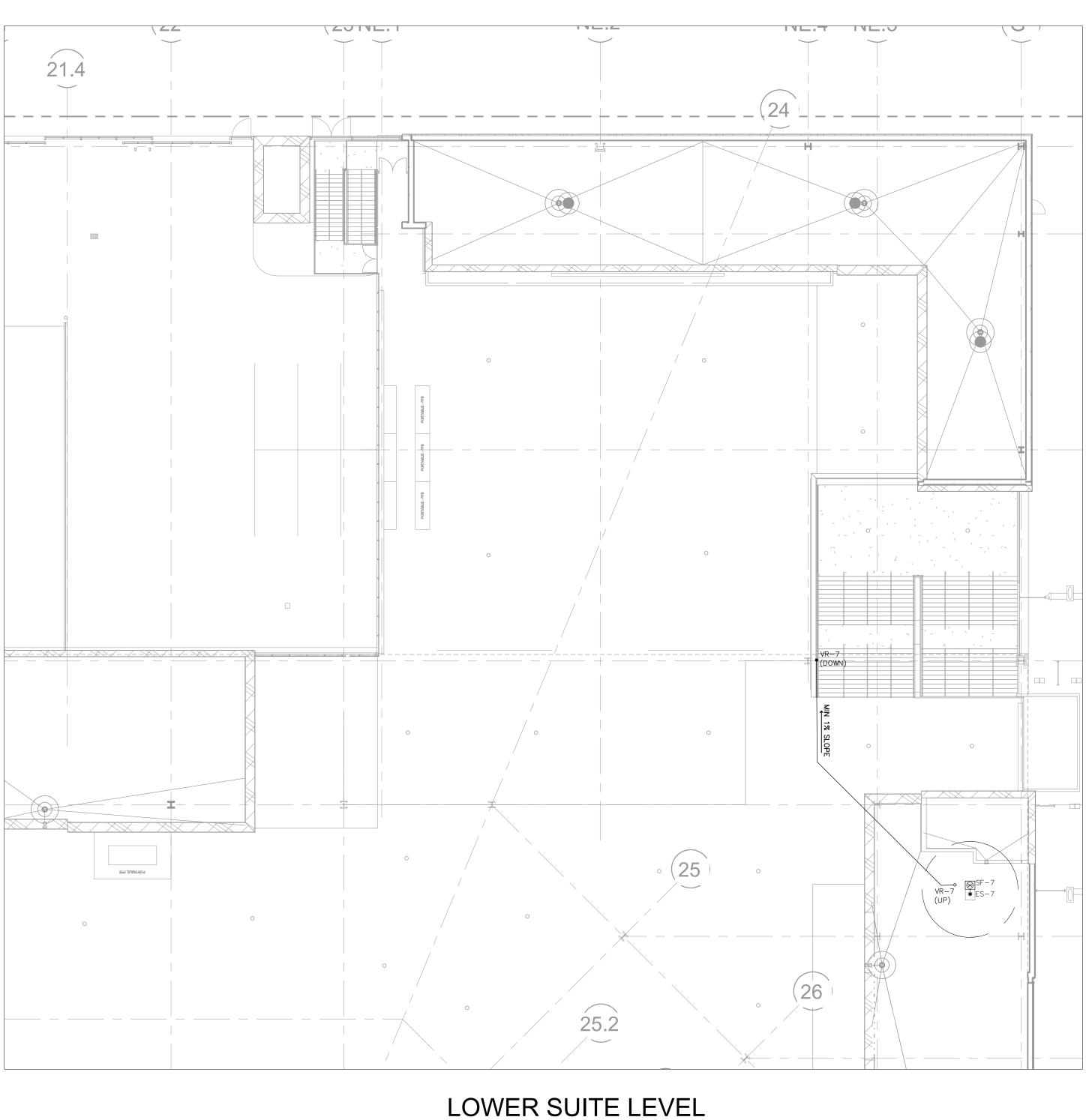


SUB-MEMBRANE DEPRESSURIZATION SYSTEM 6 RISER PLAN



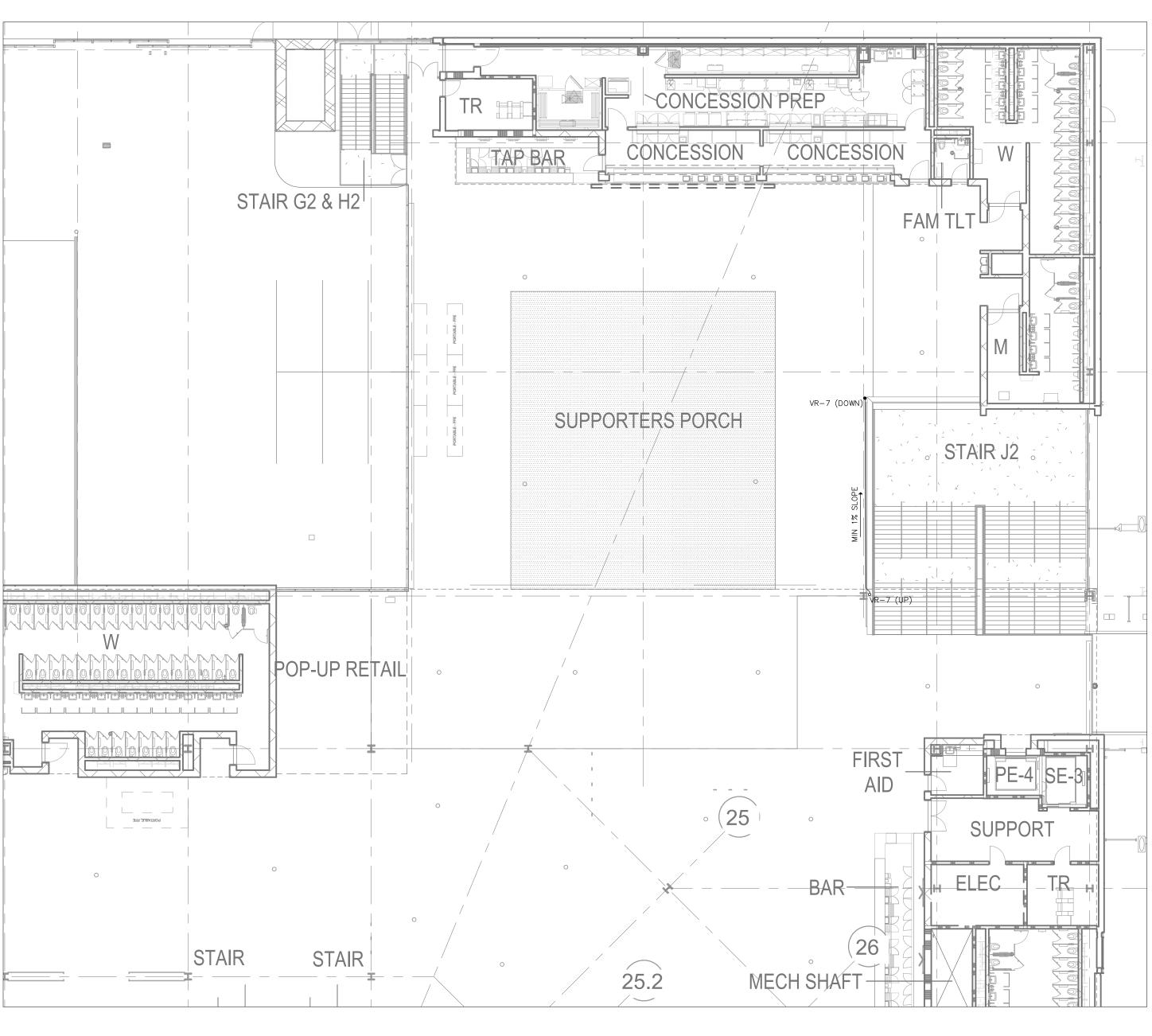


FIELD LEVEL PLAN SCALE: 1" = 15'



SCALE: 1" = 15'





LEGEND:

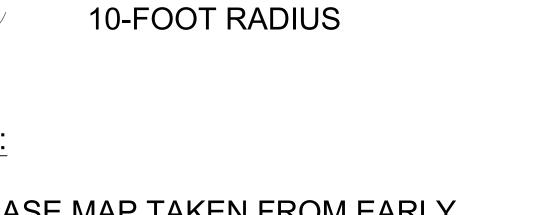
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SUCTION FAN SF-1 🚫

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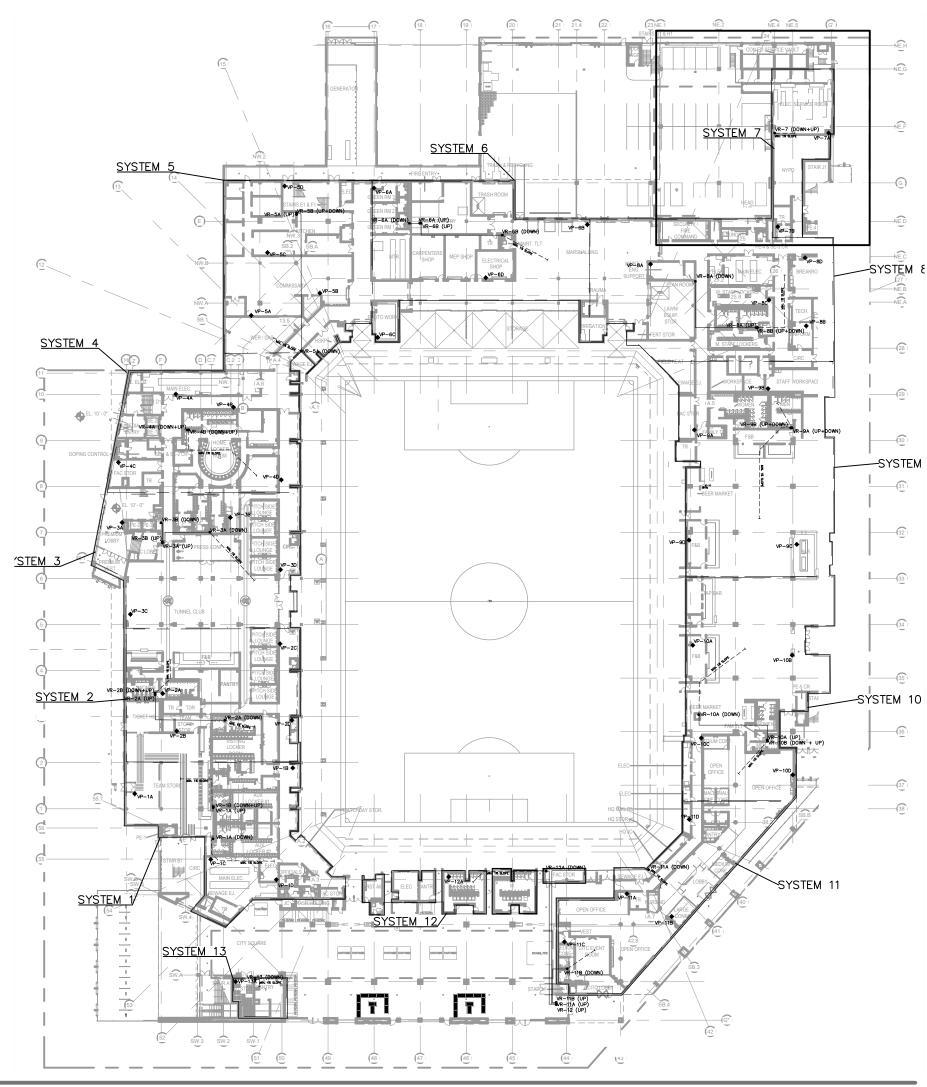


BASE MAP TAKEN FROM EARLY UNDERGROUND UTILITY PACKAGE DEVELOPMENT SET, ARCHITECTURAL DRAWINGS, PREPARED BY HOK, PROVIDED TO LANGAN ON MAY 2, 2024.

BUILDING AIR INTAKE LOCATION

2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR RISER PIPE.

3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR SLAB.



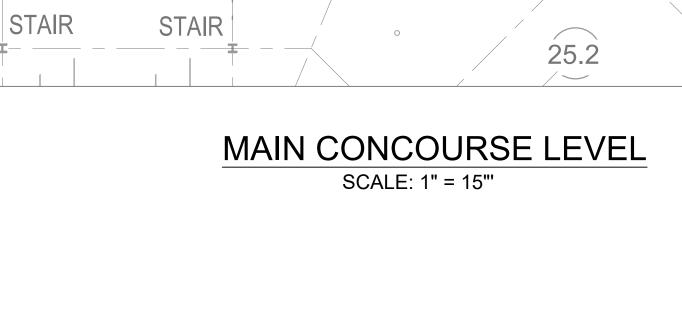
IDENTIFICATION NUMBER

VERTICAL RISER OFFSET

4" Ø GALVANIZED STEEL PIPING

EXHAUST STACK







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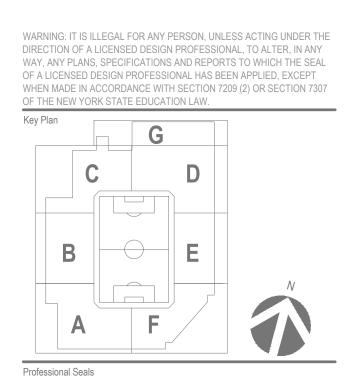




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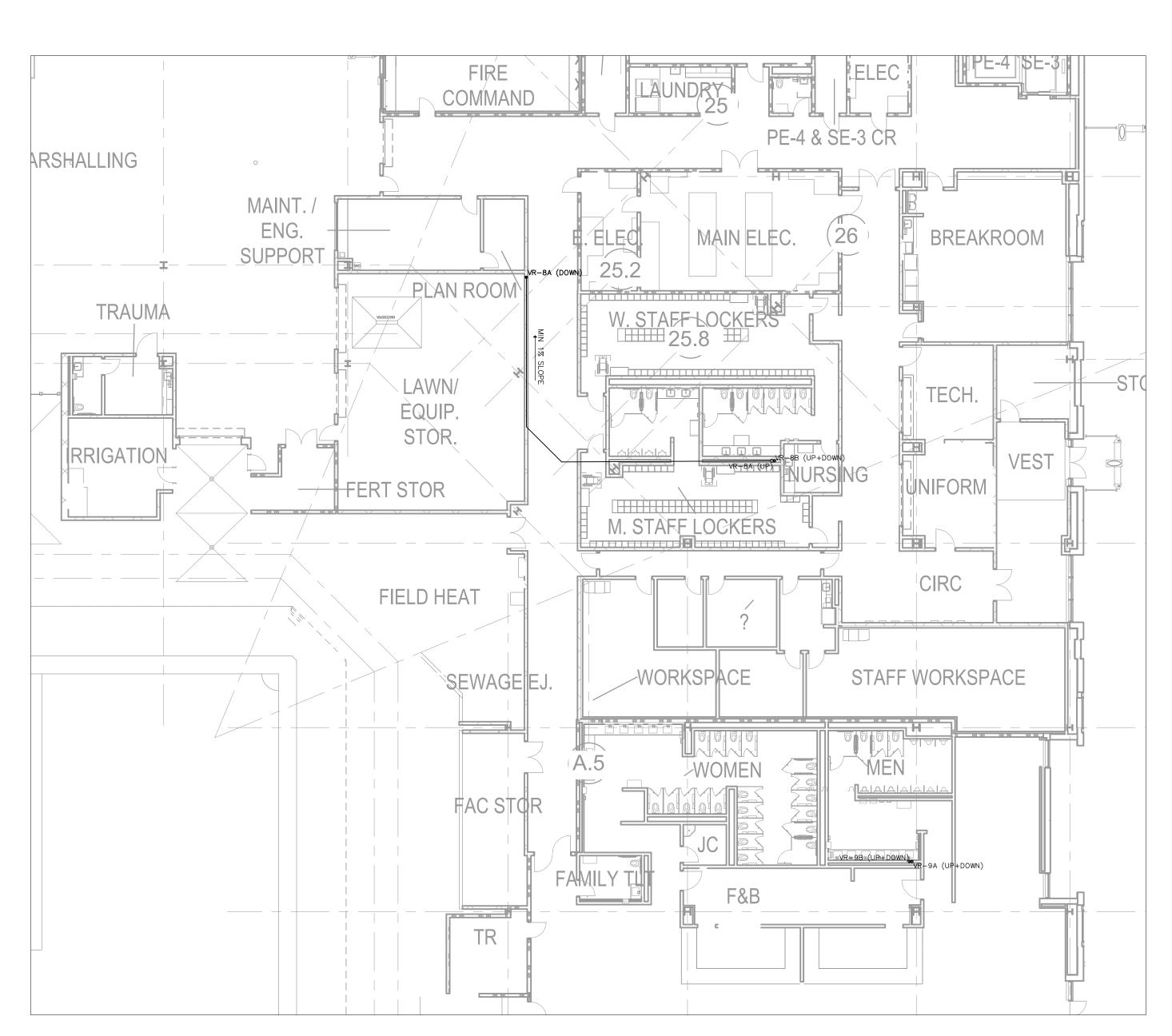


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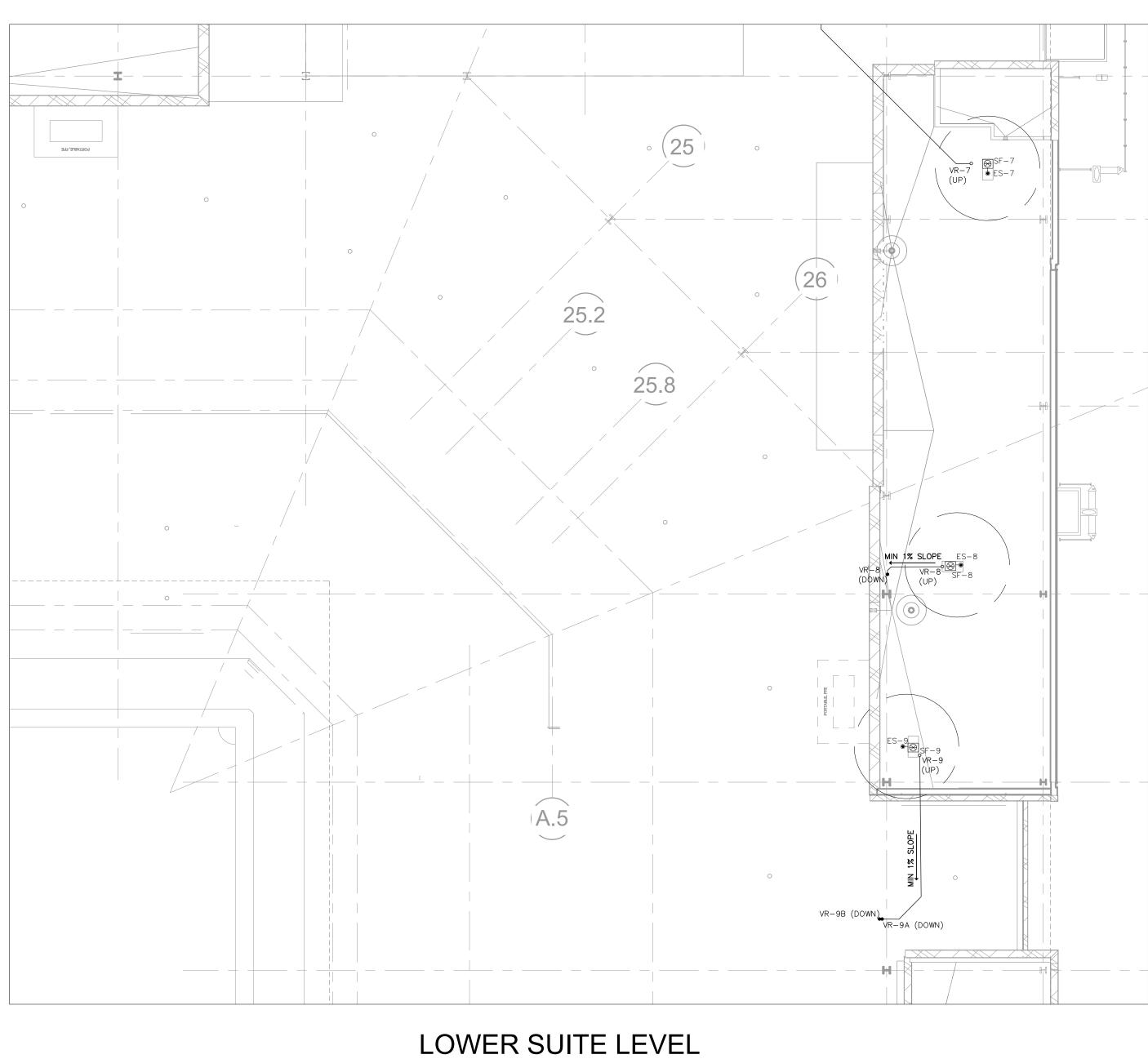


SUB-MEMBRANE DEPRESSURIZATION SYSTEM 7 RISER PLAN

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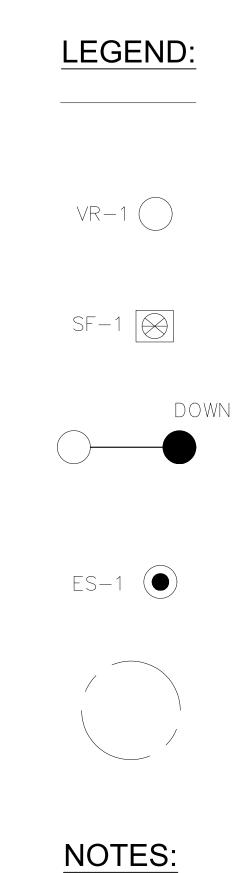


FIELD LEVEL PLAN SCALE: 1" = 15"



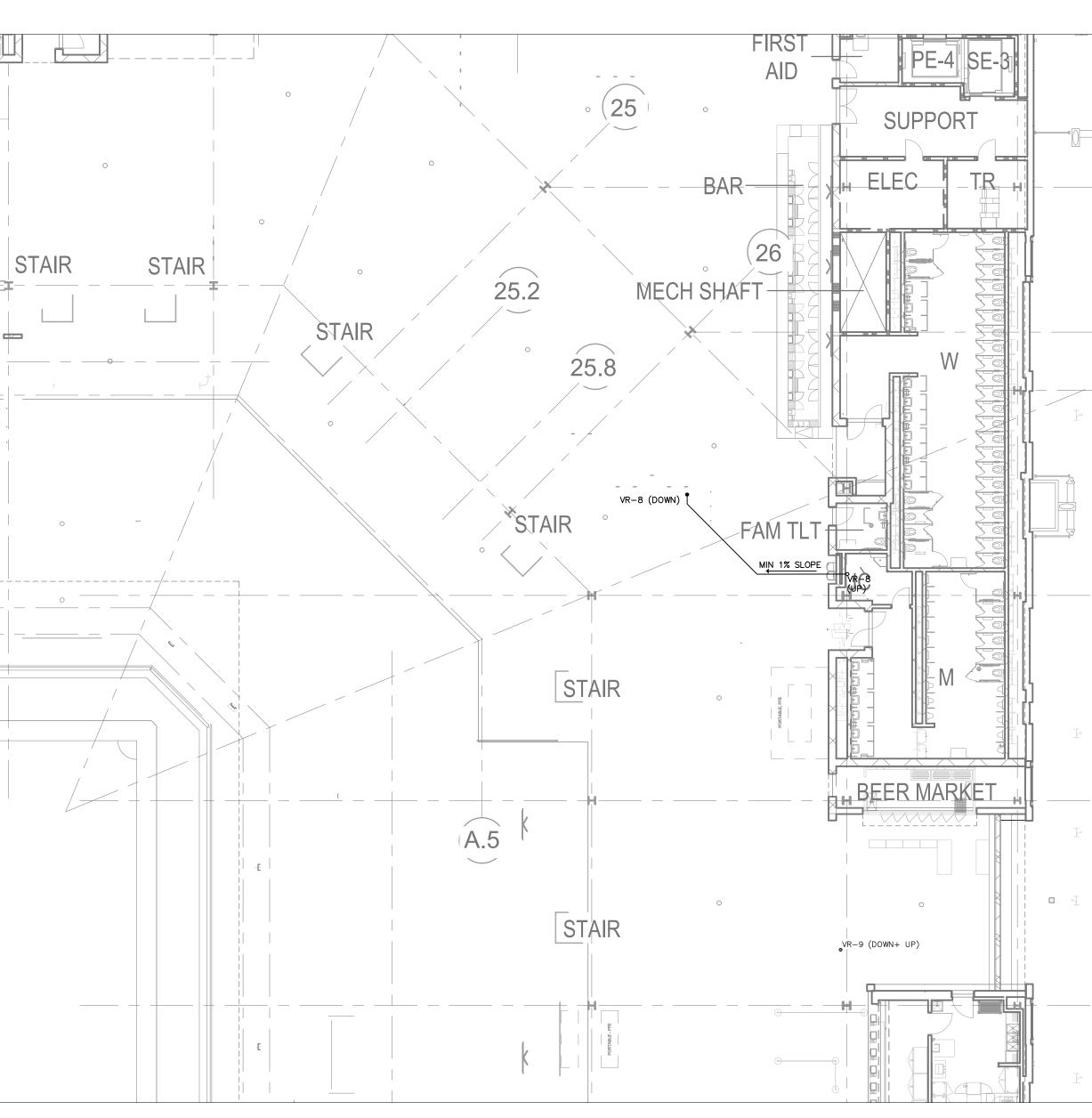
SCALE: 1" = 15'

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3.	RISE INDIC

ER PIPE LOCATIONS LABELED AS "UP" ICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR SLAB.



MAIN CONCOURSE LEVEL SCALE: 1" = 15"

4" Ø GALVANIZED STEEL PIPING

4" VERTICAL RISER AND **IDENTIFICATION NUMBER**

SUCTION FAN

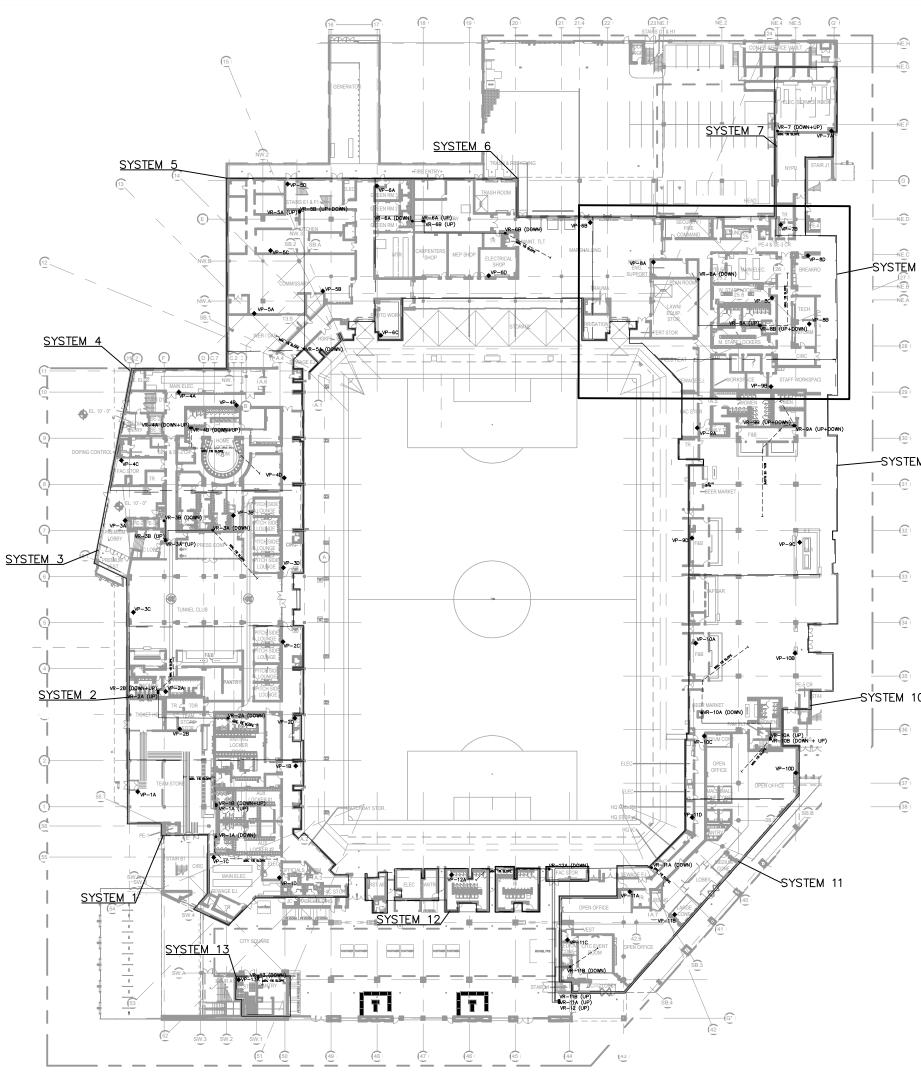
VERTICAL RISER OFFSET

EXHAUST STACK

BUILDING AIR INTAKE LOCATION 10-FOOT RADIUS

SE MAP TAKEN FROM EARLY DERGROUND UTILITY PACKAGE /ELOPMENT SET, ARCHITECTURAL AWINGS, PREPARED BY HOK, PROVIDED LANGAN ON MAY 2, 2024.

ER PIPE SLAB PENETRATIONS LABELED "DOWN" INDICATE LOACTIONS WHERE E RISER PIPE IS PENETRATING THE SLAB CONNECTING TO THE LOWER FLOOR ER PIPE.





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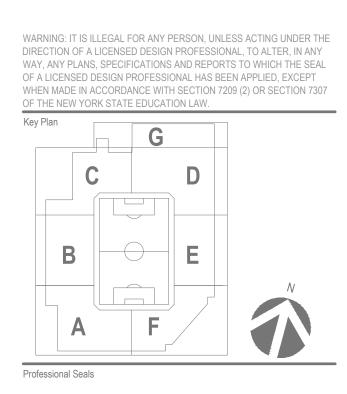




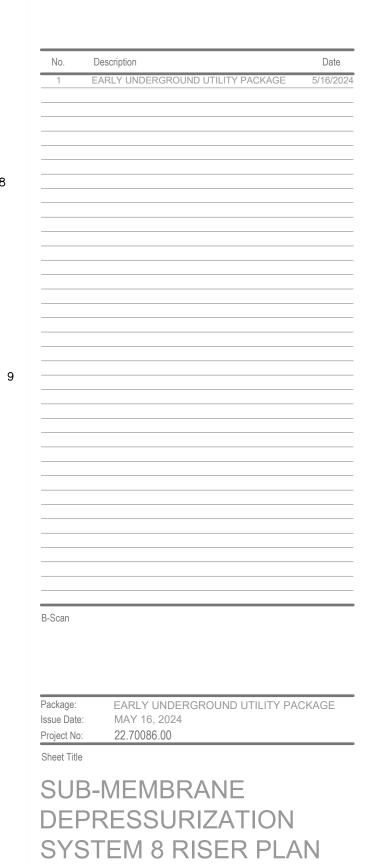
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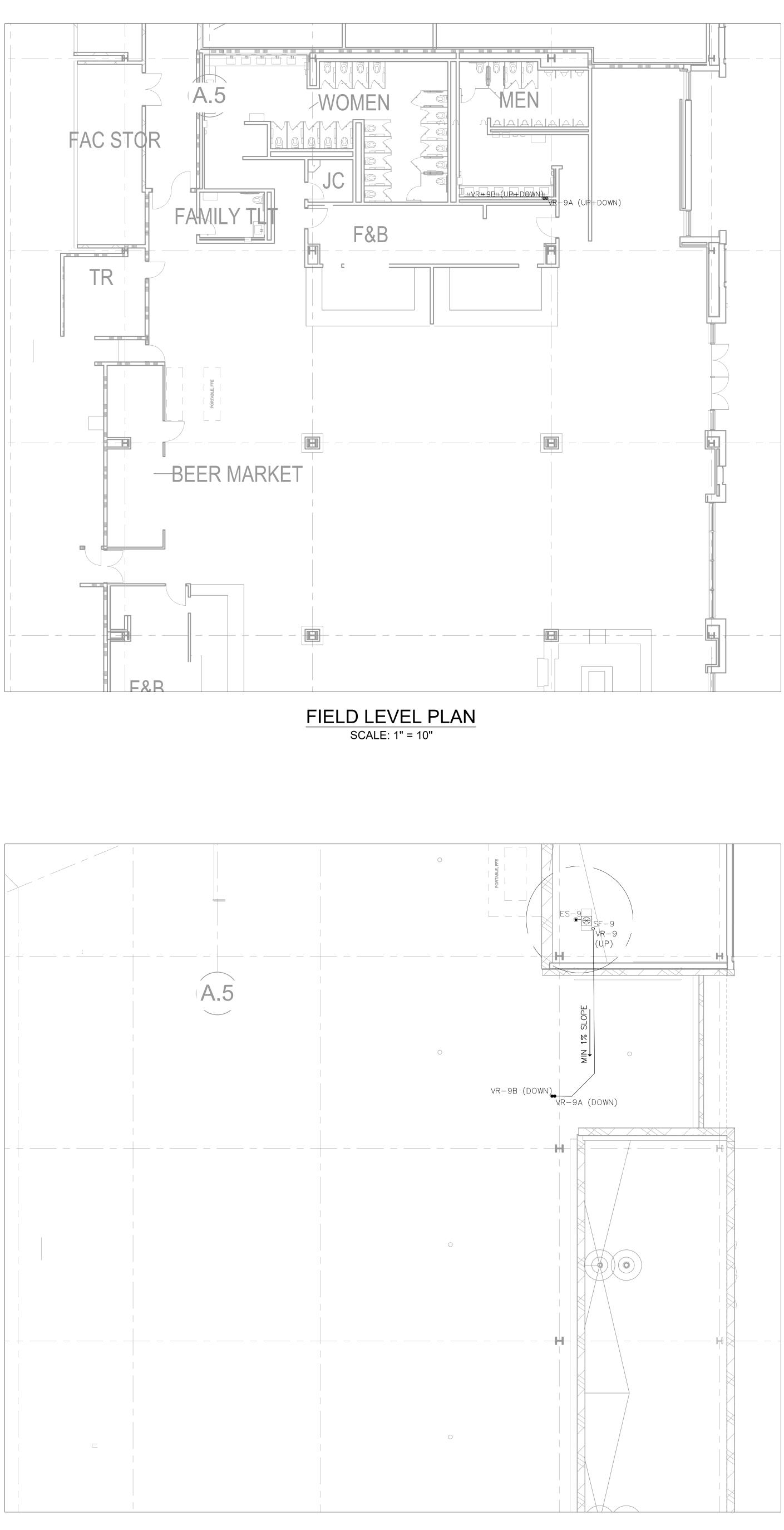
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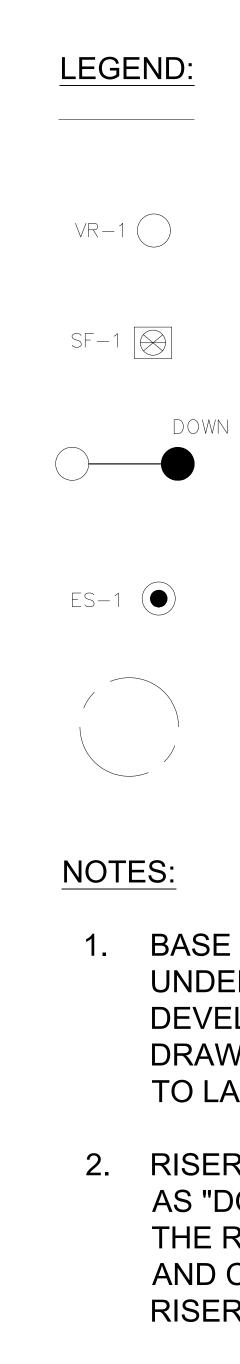
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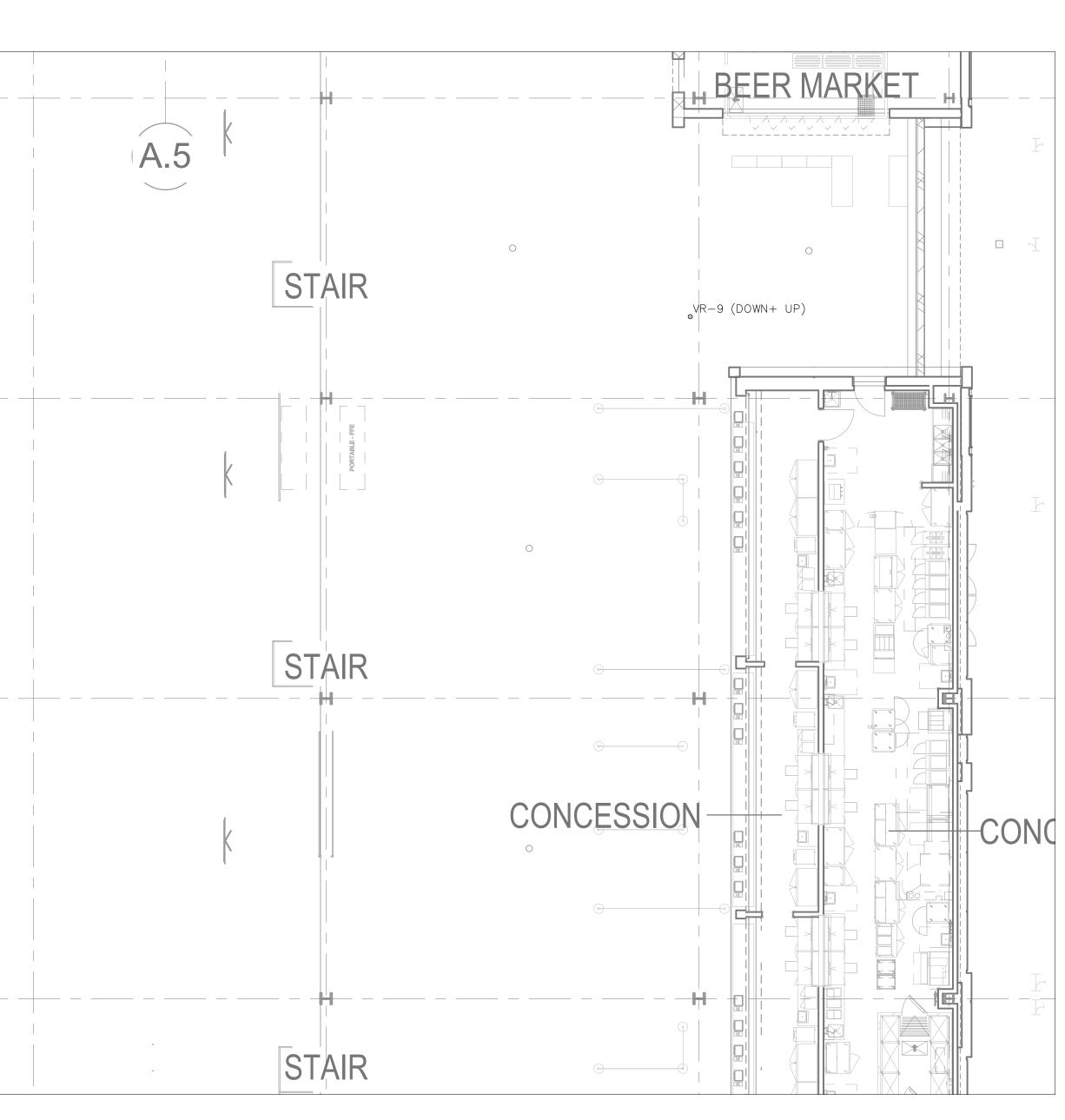
LOWER SUITE LEVEL SCALE: 1" = 10'



_____ L



SLAB.



MAIN CONCOURSE LEVEL SCALE: 1" = 10"

4" Ø GALVANIZED STEEL PIPING

4" VERTICAL RISER AND **IDENTIFICATION NUMBER**

SUCTION FAN

VERTICAL RISER OFFSET

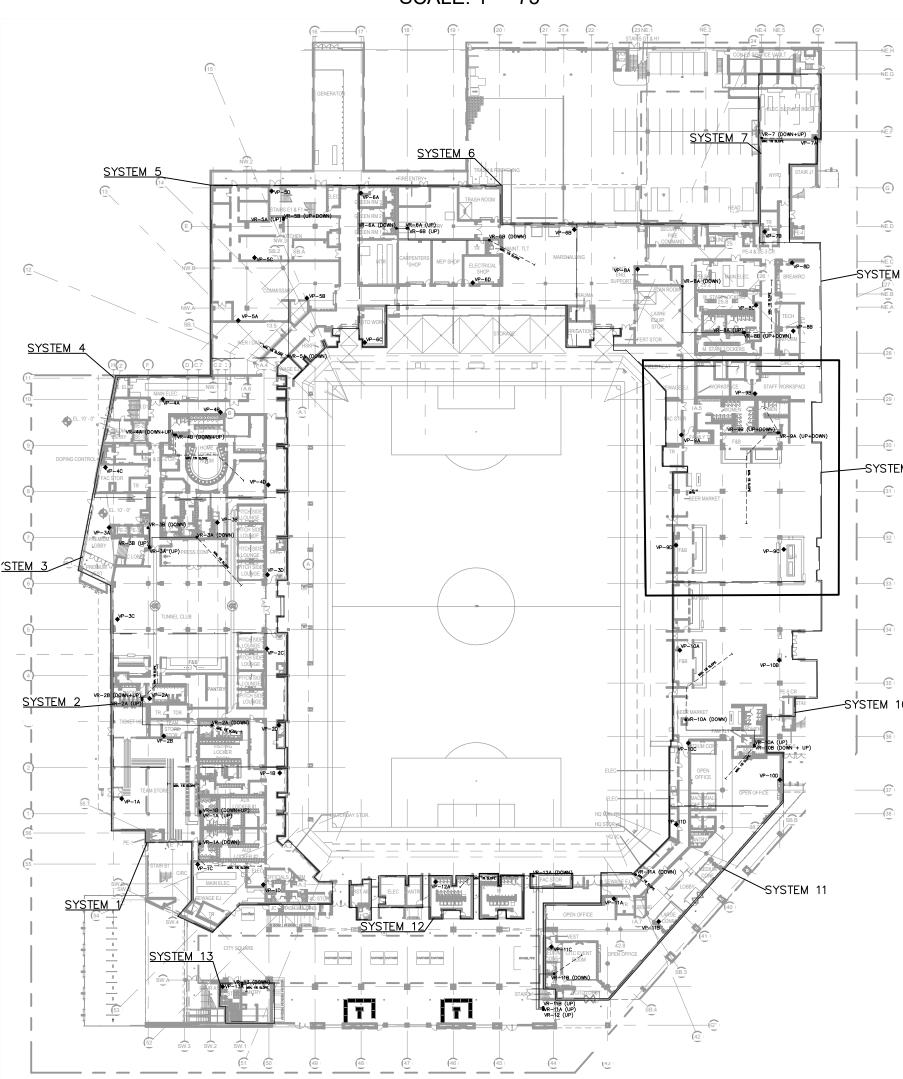
EXHAUST STACK

BUILDING AIR INTAKE LOCATION 10-FOOT RADIUS

BASE MAP TAKEN FROM EARLY UNDERGROUND UTILITY PACKAGE DEVELOPMENT SET, ARCHITECTURAL DRAWINGS, PREPARED BY HOK, PROVIDED TO LANGAN ON MAY 2, 2024.

2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR RISER PIPE.

3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR





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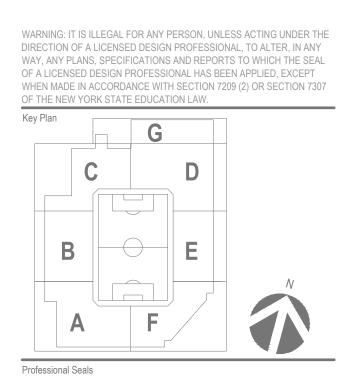




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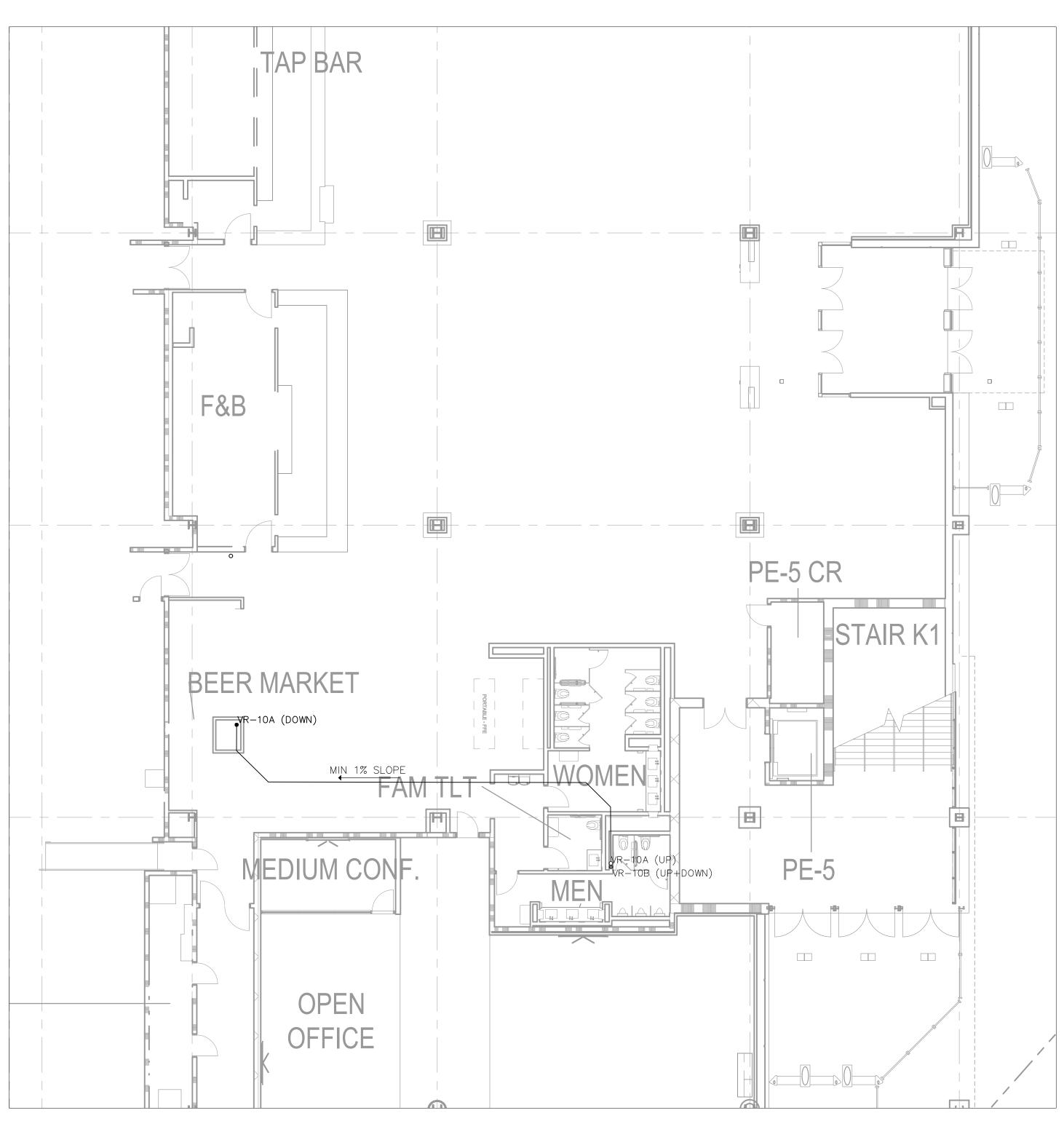


NOT FOR CONSTRUCTION



SUB-MEMBRANE DEPRESSURIZATION SYSTEM 9 RISER PLAN

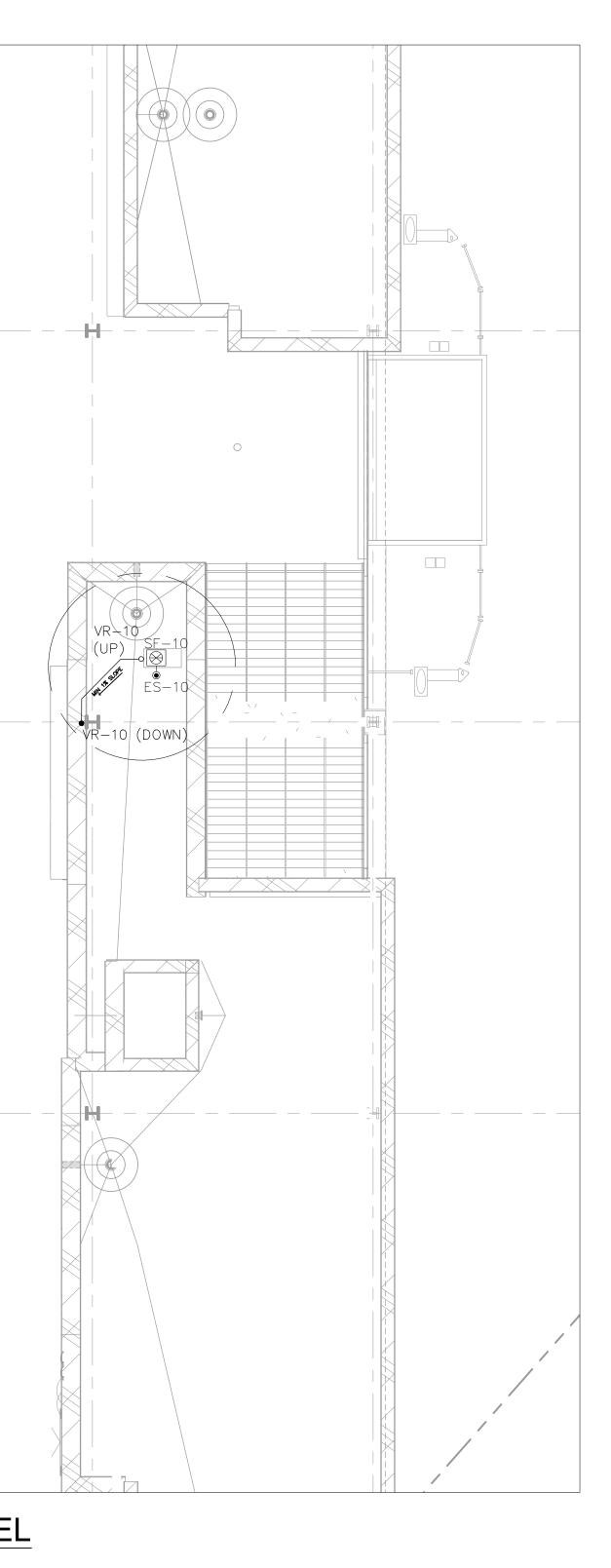
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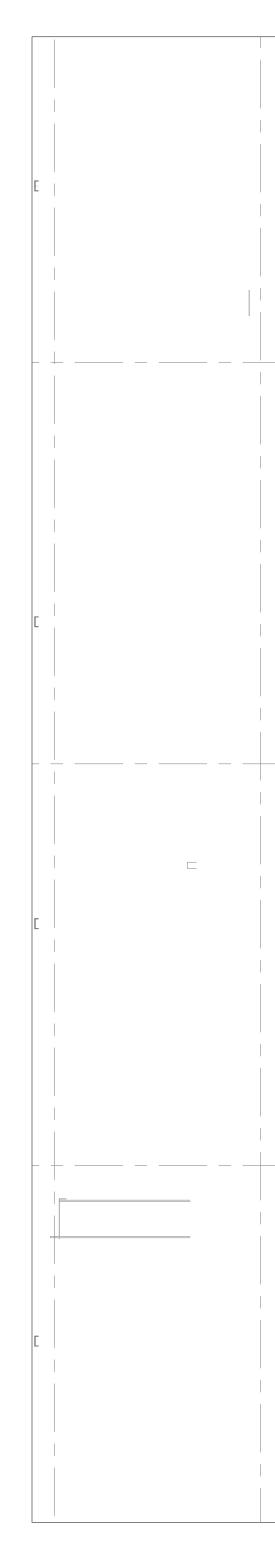


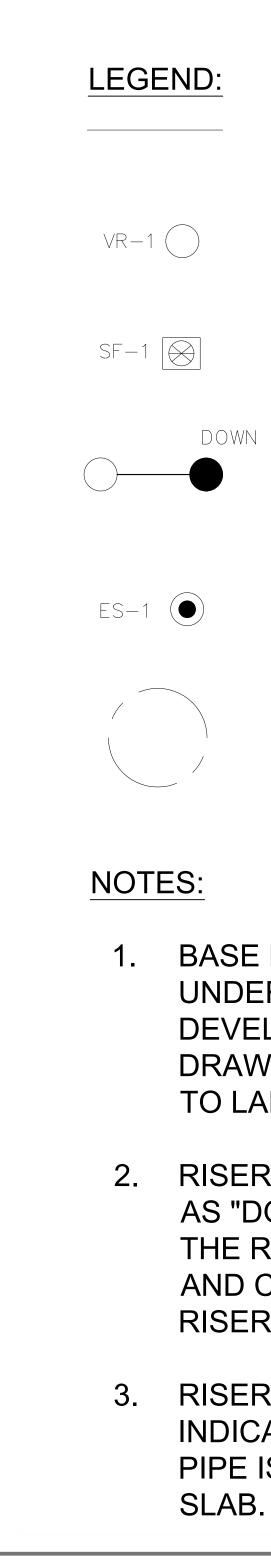
FIELD LEVEL PLAN SCALE: 1" = 10"

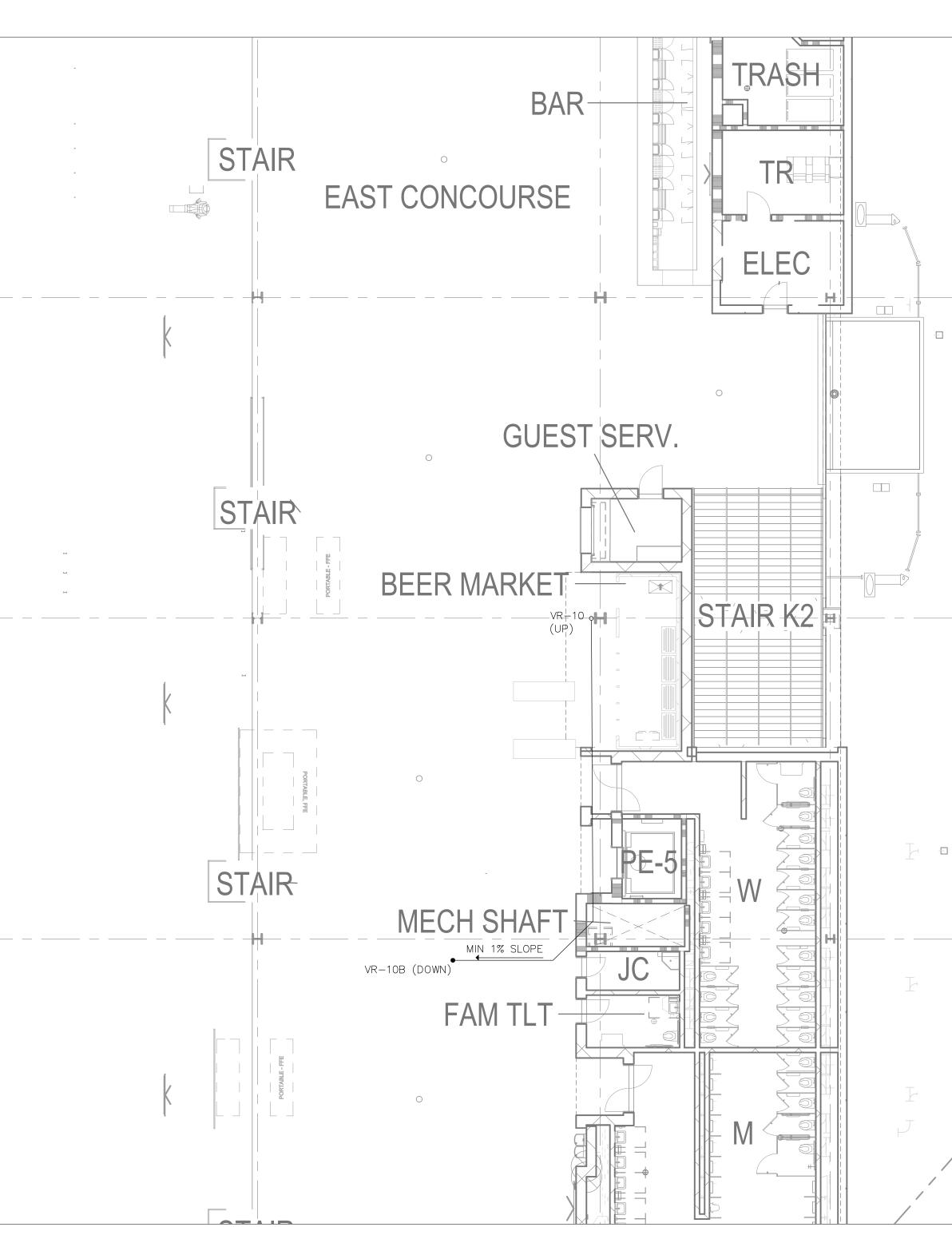












MAIN CONCOURSE LEVEL SCALE: 1" = 10"

4" Ø GALVANIZED STEEL PIPING

4" VERTICAL RISER AND **IDENTIFICATION NUMBER**

SUCTION FAN

VERTICAL RISER OFFSET

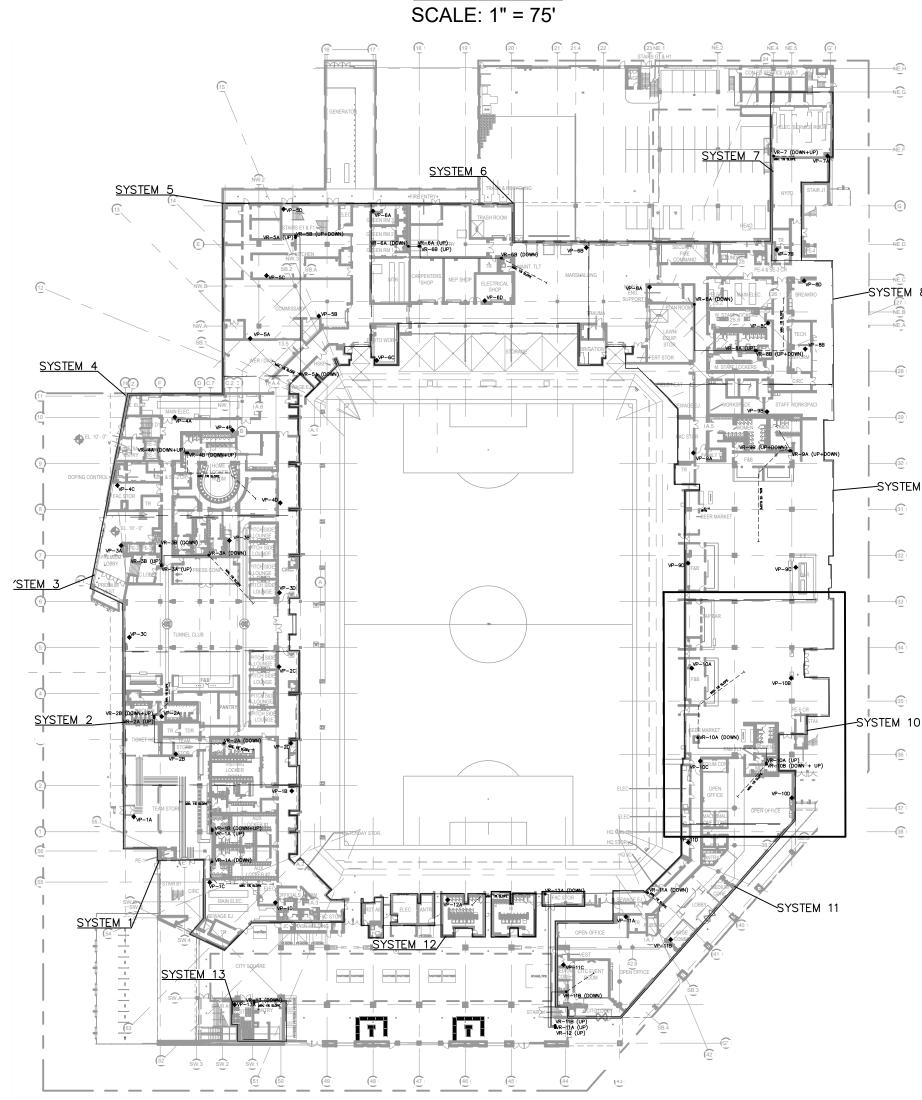
EXHAUST STACK

BUILDING AIR INTAKE LOCATION 10-FOOT RADIUS

1. BASE MAP TAKEN FROM EARLY UNDERGROUND UTILITY PACKAGE DEVELOPMENT SET, ARCHITECTURAL DRAWINGS, PREPARED BY HOK, PROVIDED TO LANGAN ON MAY 2, 2024.

2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR RISER PIPE.

3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR





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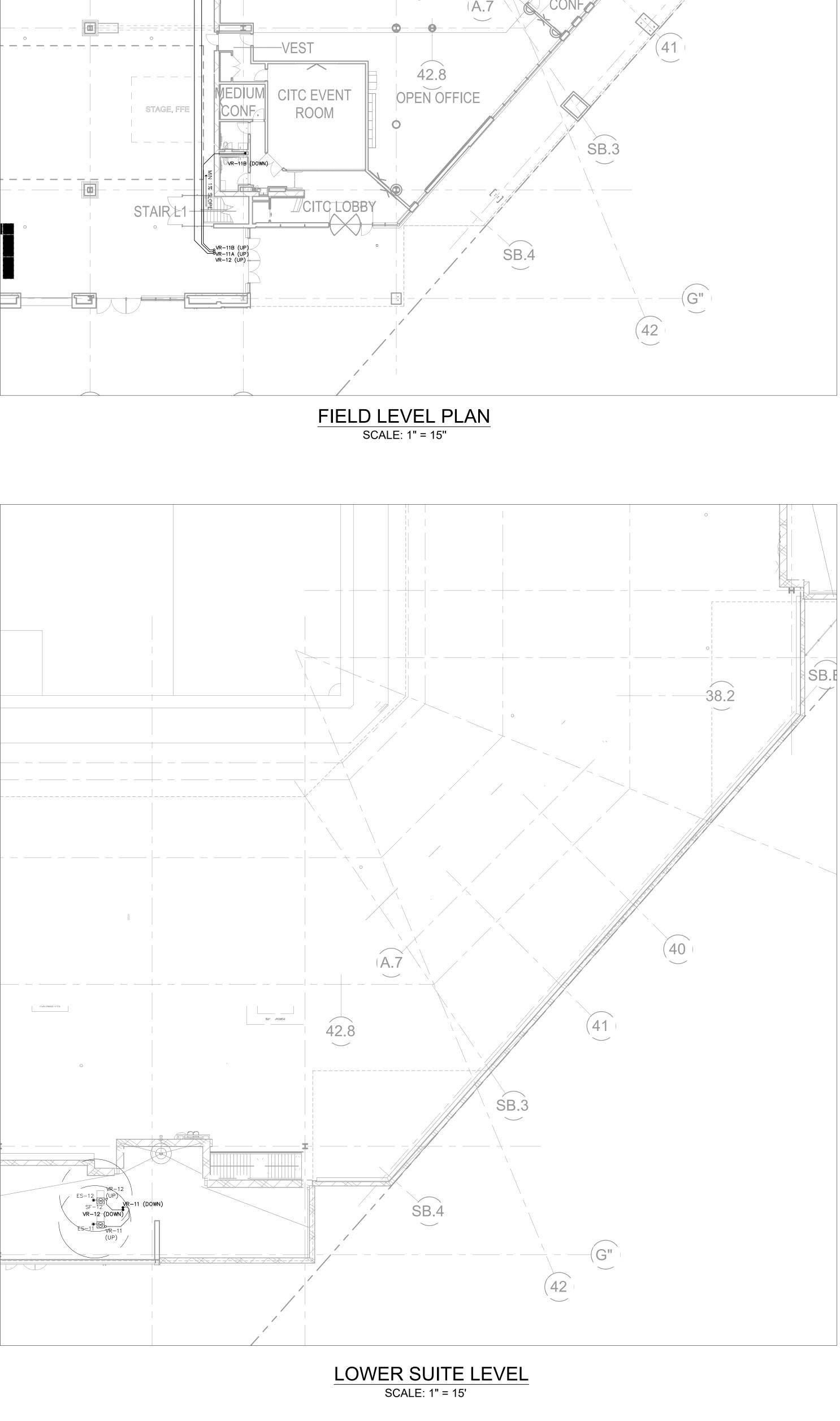
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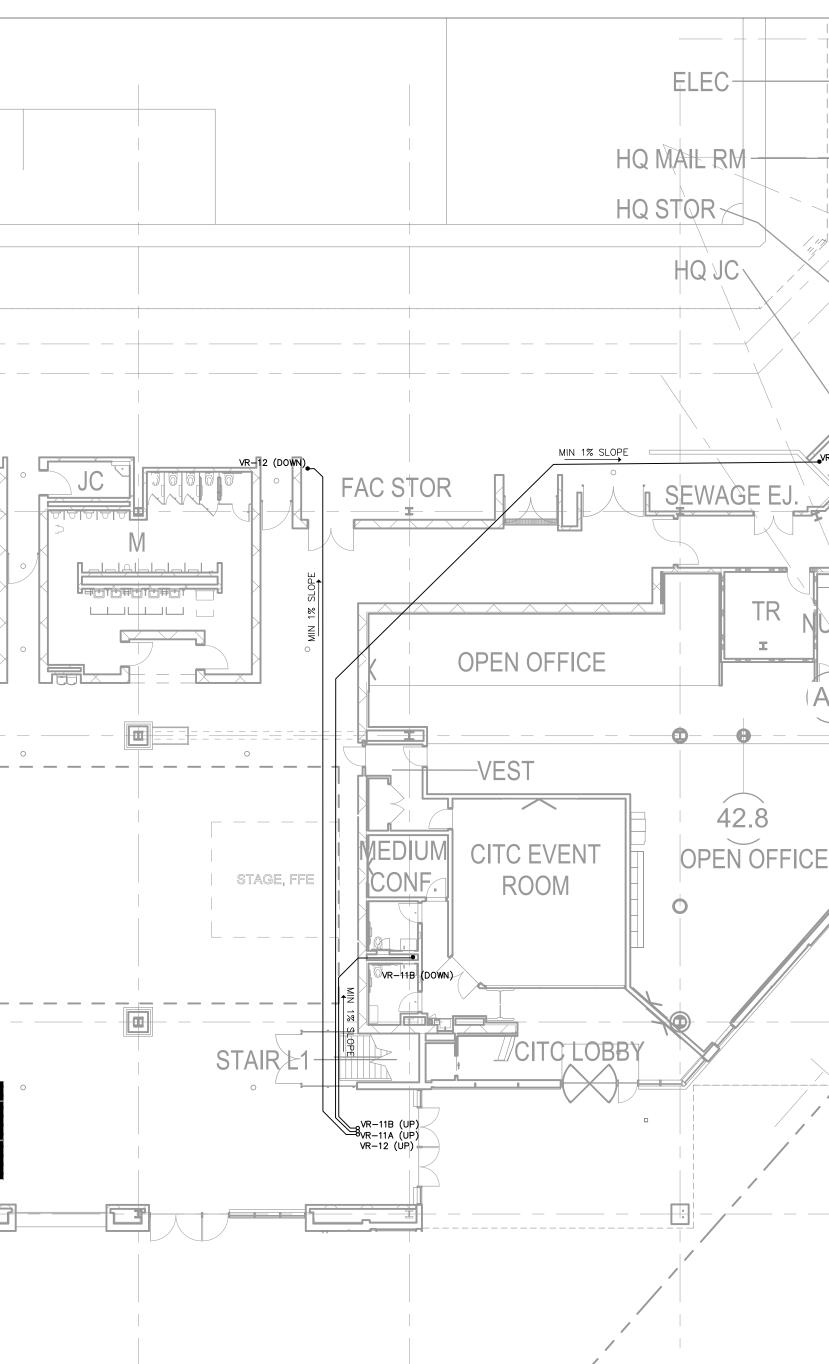


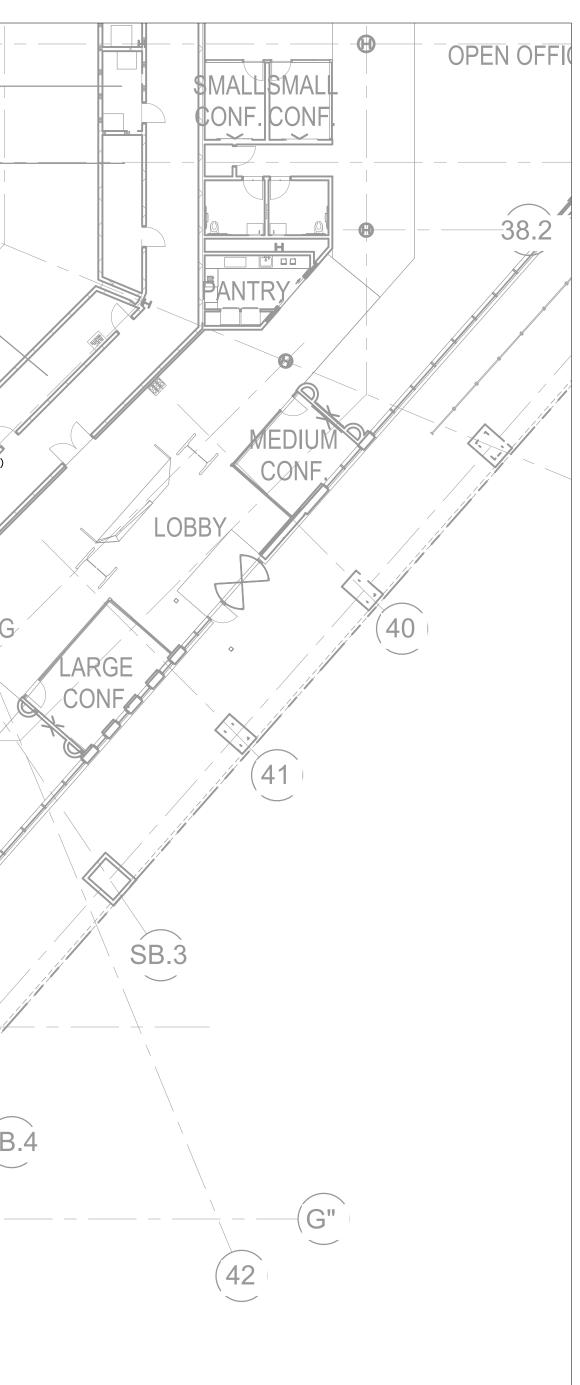
SUB-MEMBRANE DEPRESSURIZATION SYSTEM 10 RISER PLAN

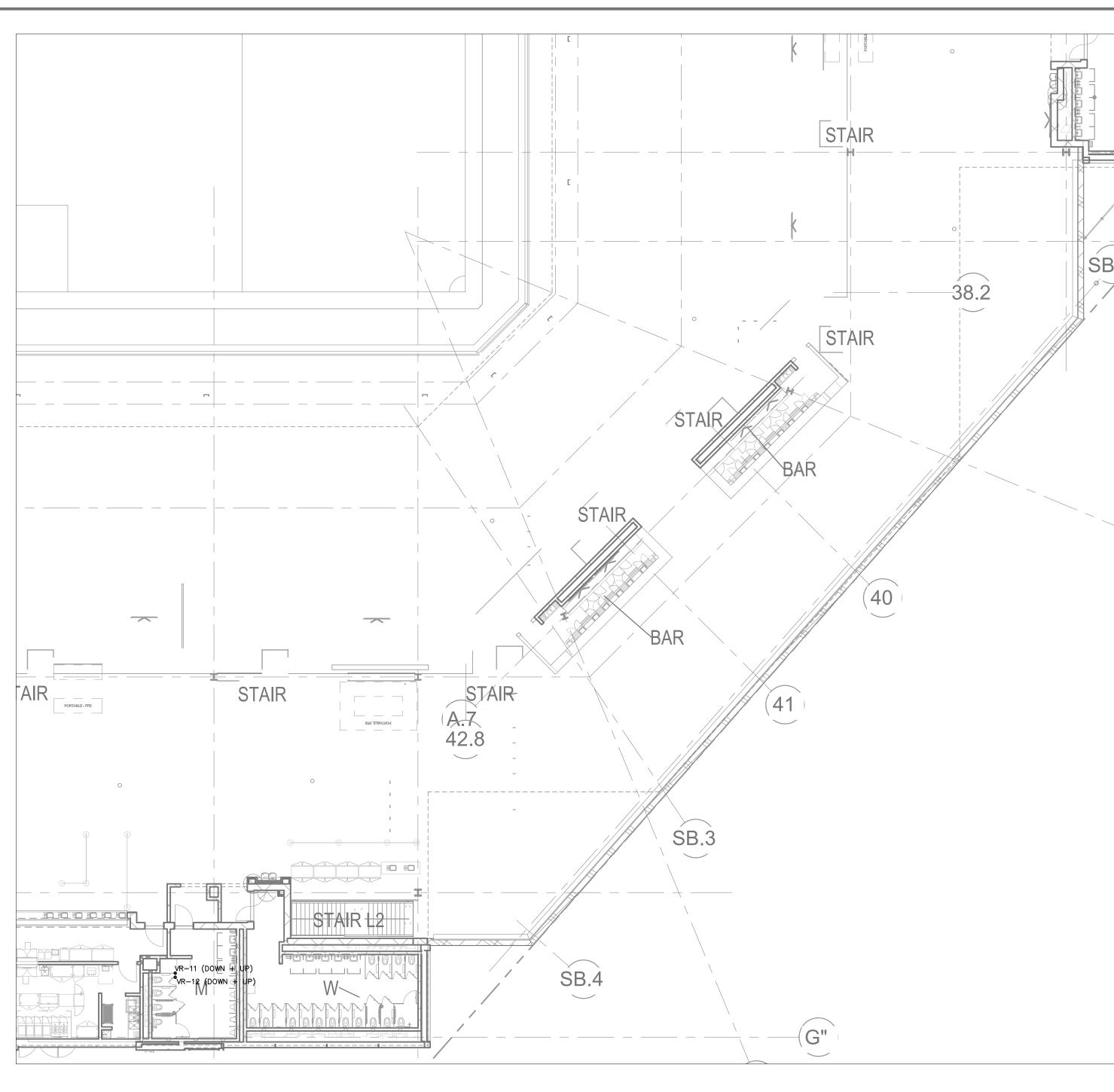
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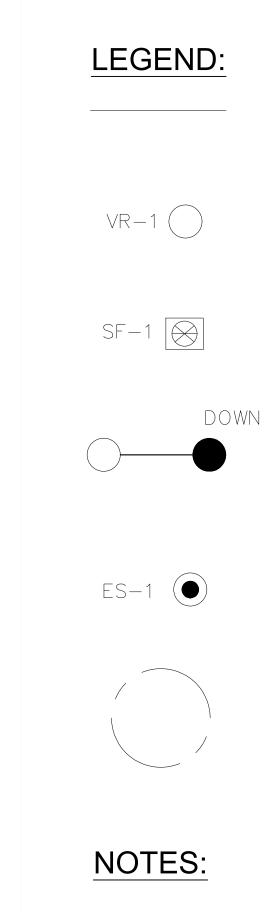
KEY MAP











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MAIN CONCOURSE LEVEL SCALE: 1" = 15"

4" Ø GALVANIZED STEEL PIPING

4" VERTICAL RISER AND **IDENTIFICATION NUMBER**

SUCTION FAN

VERTICAL RISER OFFSET

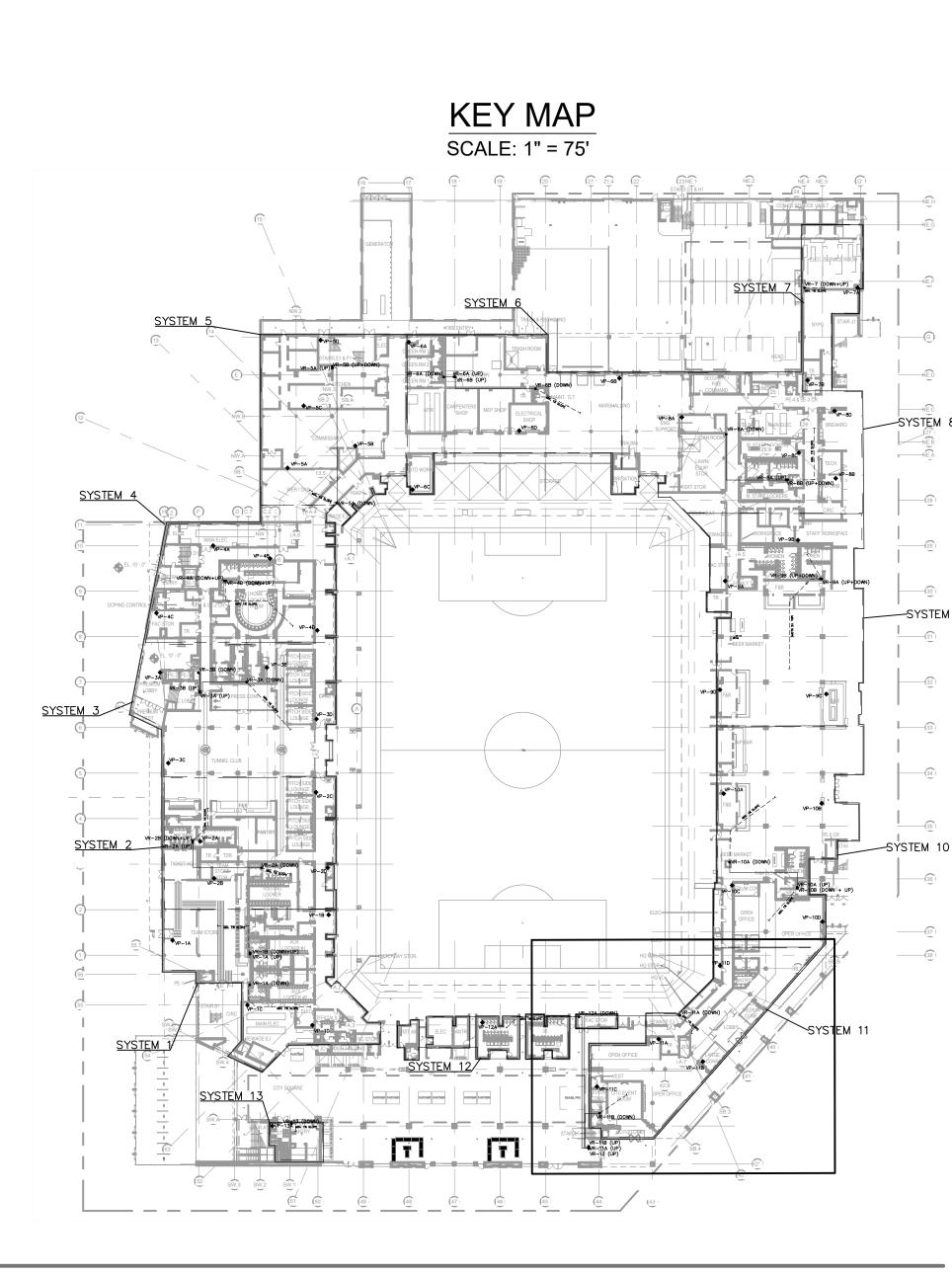
EXHAUST STACK

BUILDING AIR INTAKE LOCATION 10-FOOT RADIUS

SE MAP TAKEN FROM EARLY DERGROUND UTILITY PACKAGE EVELOPMENT SET, ARCHITECTURAL RAWINGS, PREPARED BY HOK, PROVIDED D LANGAN ON MAY 2, 2024.

SER PIPE SLAB PENETRATIONS LABELED **6 "DOWN" INDICATE LOACTIONS WHERE** IE RISER PIPE IS PENETRATING THE SLAB ND CONNECTING TO THE LOWER FLOOR SER PIPE.

SER PIPE LOCATIONS LABELED AS "UP" DICATES LOCATIONS WHERE THE RISER PE IS PENETRATING THE UPPER FLOOR AB.





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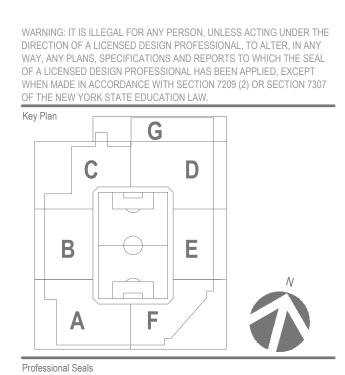




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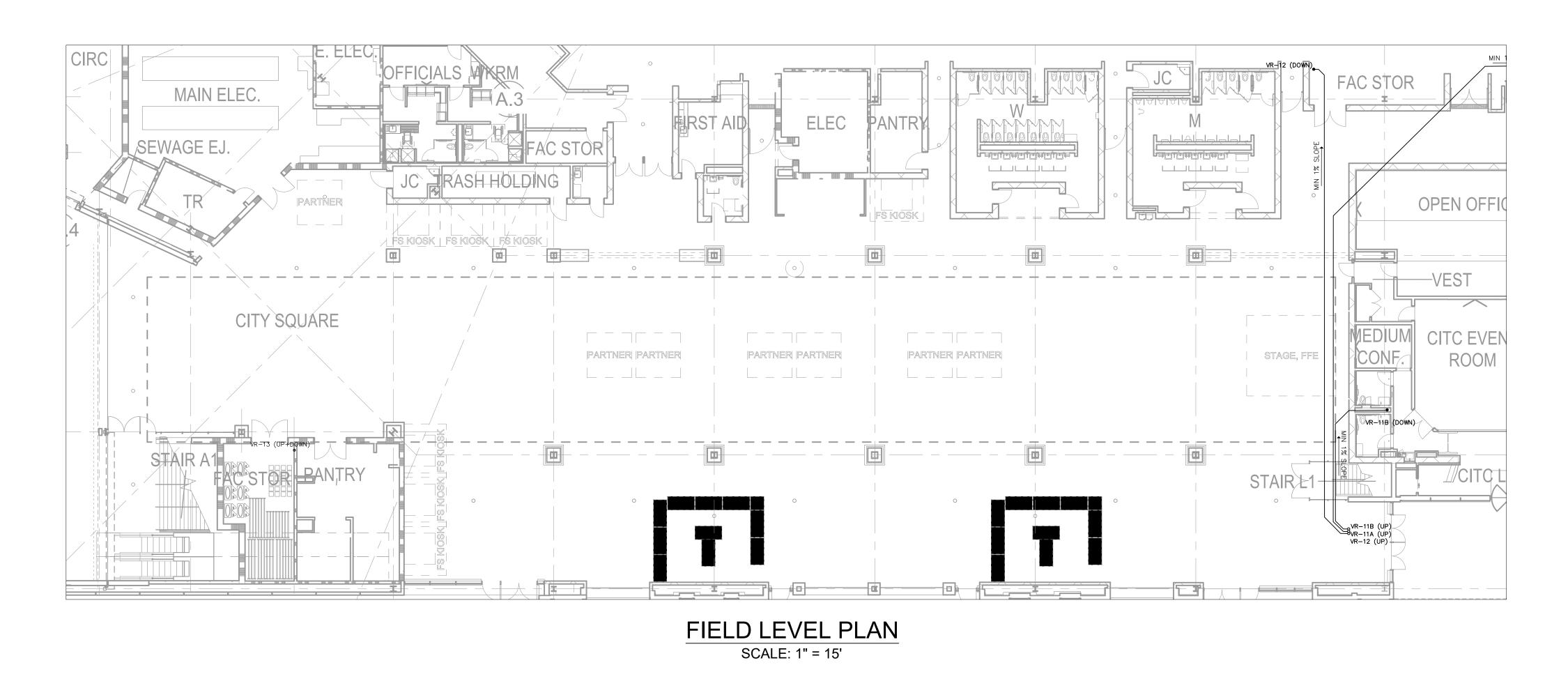


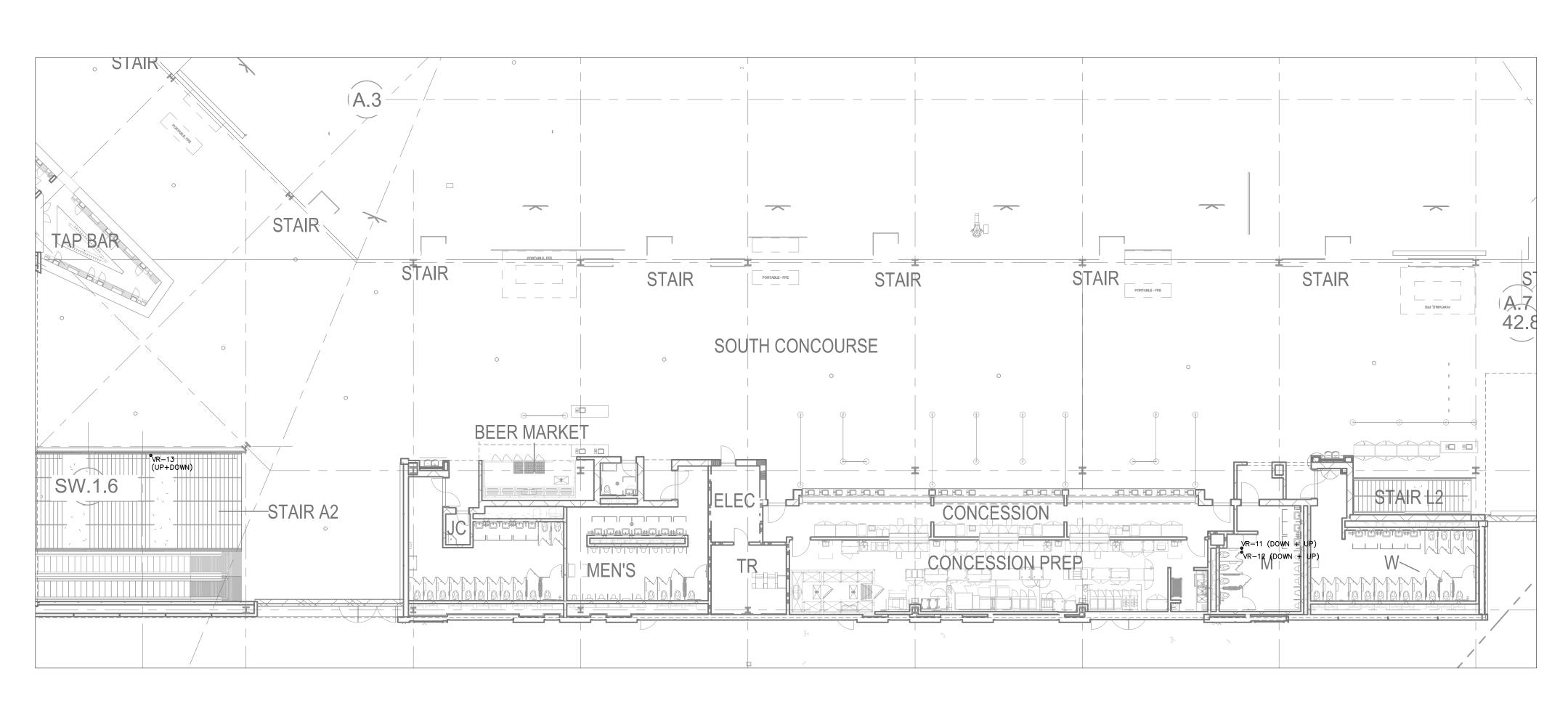
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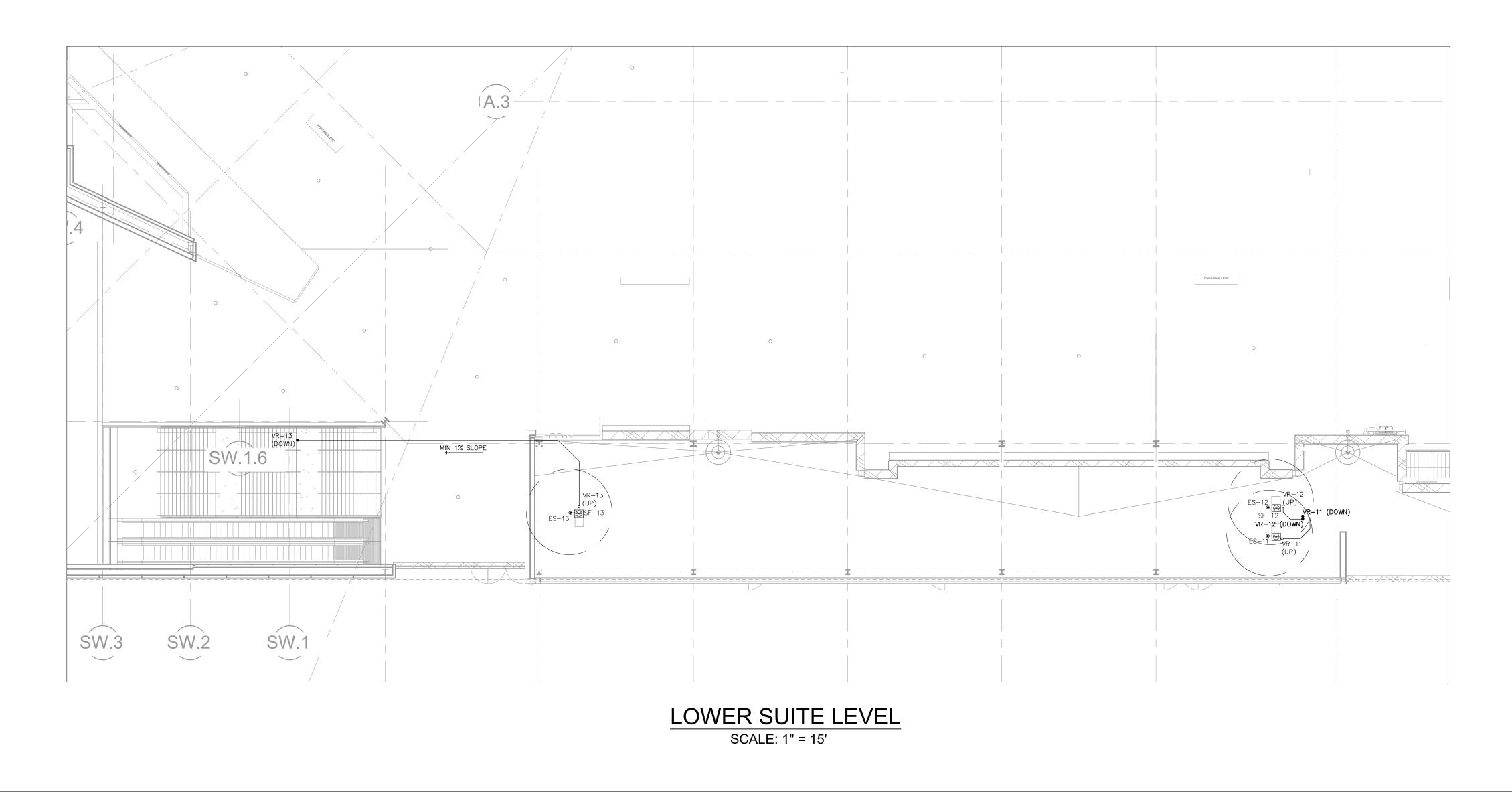


Sheet Number

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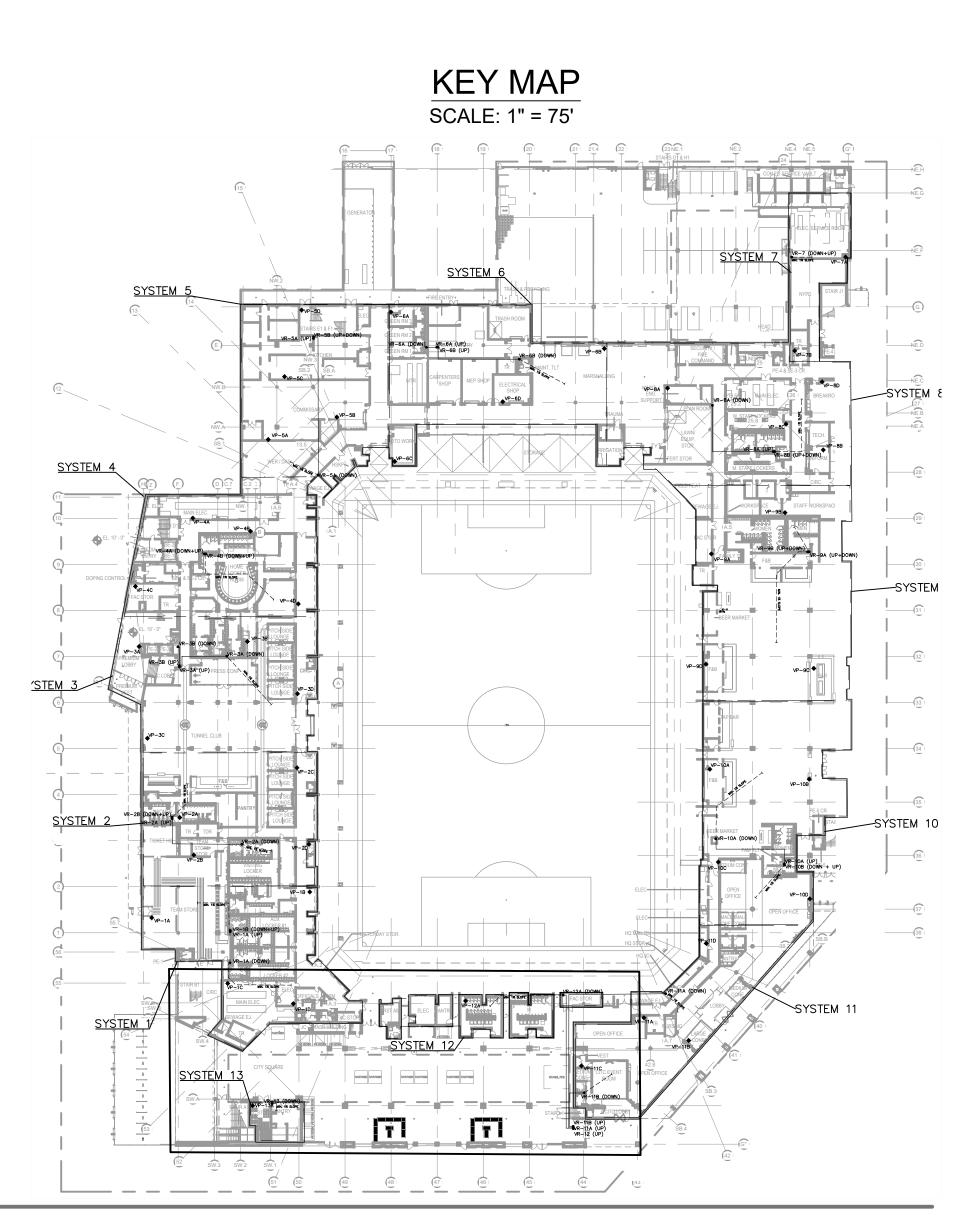


MAIN CONCOURSE LEVEL SCALE: 1" = 15'

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SF−1 🚫	SU
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ES-1	EX
	BU 10-
NOTES:	
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2. RISER PIPE SLAB PENETRATIONS LABELED AS "DOWN" INDICATE LOACTIONS WHERE THE RISER PIPE IS PENETRATING THE SLAB AND CONNECTING TO THE LOWER FLOOR RISER PIPE.

3. RISER PIPE LOCATIONS LABELED AS "UP" INDICATES LOCATIONS WHERE THE RISER PIPE IS PENETRATING THE UPPER FLOOR SLAB.





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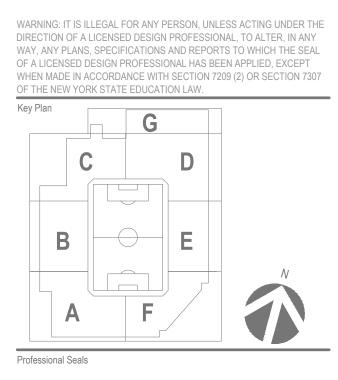


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NOT FOR CONSTRUCTION



H-114.00

Ø GALVANIZED STEEL PIPING

VERTICAL RISER AND

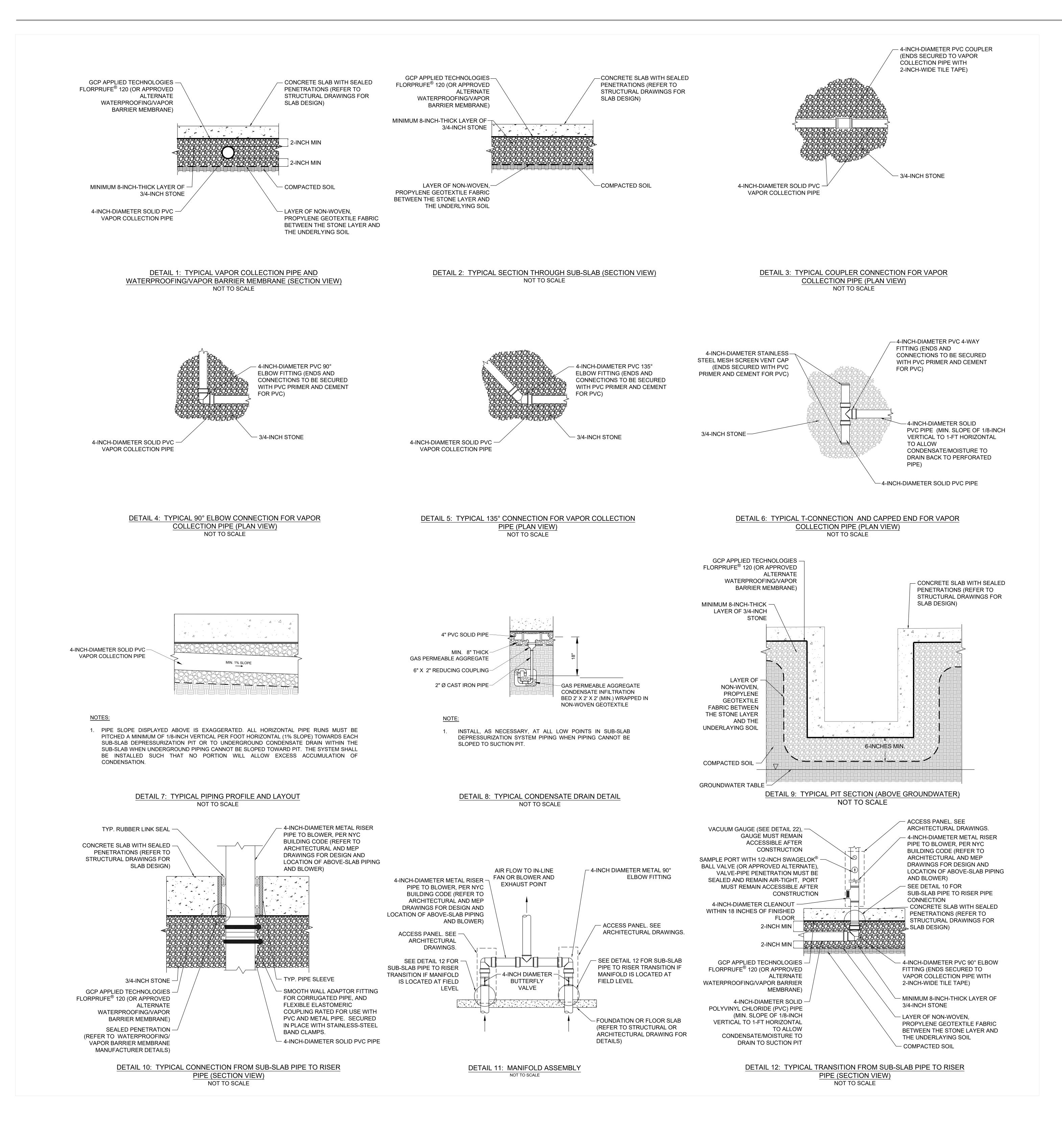
JCTION FAN

ERTICAL RISER OFFSET

XHAUST STACK

UILDING AIR INTAKE LOCATION)-FOOT RADIUS

AP TAKEN FROM EARLY ROUND UTILITY PACKAGE PMENT SET, ARCHITECTURAL GS, PREPARED BY HOK, PROVIDED GAN ON MAY 2, 2024.



NOTES:

- CODE.
- RECOMMENDED BY THE MANUFACTURER FOR USE WITH THE 2-INCH-WIDE TILE TAPE.

SIEVE SIZE	<u>% PASSIN</u>
1 <u>1</u> "	100
1"	90-100
<u>3</u> " 4	20-55
<u>1</u> " 2 <u>3</u> " 8	0-10
<u>3</u> " 8	0-5

RISER PIPE (REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR DESIGN AND LOCATION OF ABOVE-SLAB PIPING) SHALL BE 4-INCH-DIAMETER METAL PIPE OR OTHER MATERIAL THAT COMPLIES WITH APPLICABLE BUILDING

ALL FITTINGS AND CONNECTIONS FOR THE VAPOR COLLECTION PIPE SHALL BE 4-INCH-DIAMETER SCHEDULE 80 PVC FITTINGS, MADE BY THE SAME MANUFACTURER AS THE 4-INCH-DIAMETER PIPE, AND OF THE TYPE 4-INCH-DIAMETER PIPE. SECURE ALL FITTINGS AND CONNECTIONS WITH

3/4-INCH STONE SHALL BE VIRGIN, COARSE, ANGULAR, WASHED 3/4-INCH STONE WITH THE FOLLOWING GRADATION (ASTM/AASHTO #5 SIZE STONE):

ING BY WEIGHT



Project NYCFC WILLETS POINT STADIUM FLUSHING, NY 11368

Prepared For **NEW YORK CITY** FOOTBALL CLUB



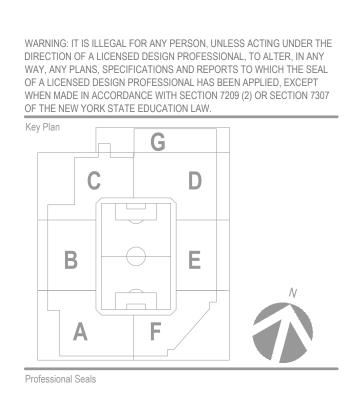
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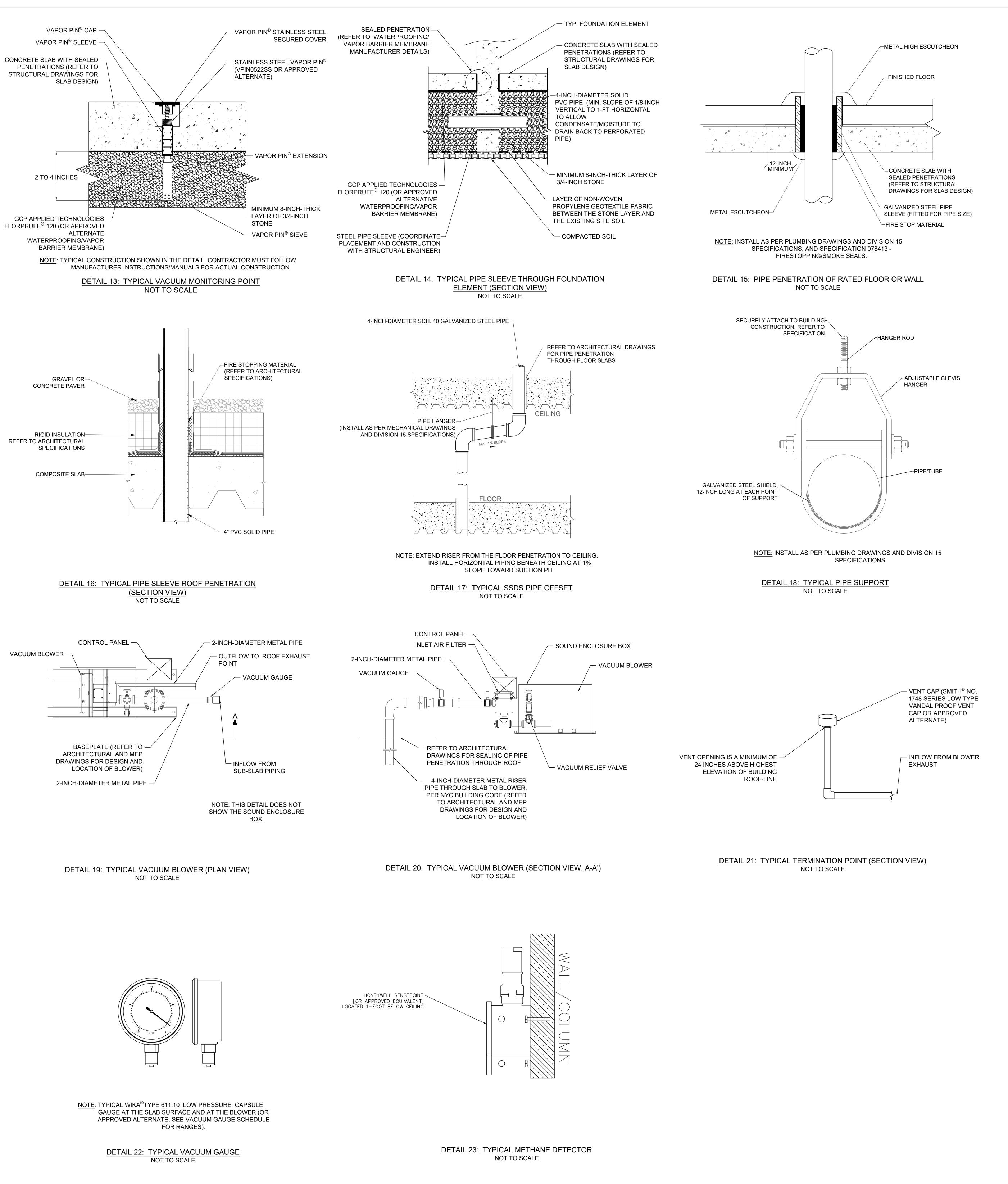
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Issue Date: MAY 16, 2024 Project No: 22.70086.00 Sheet Title SUB-MEMBRANE

DEPRESSURIZATION SYSTEM DETAILS - 1

H-201.00



VACUUM BLOWER NOTES:

- 1. INSTALL RAIN GUARD OR CAP ON THE EXHAUST POINT.
- PROVIDED BY THE MANUFACTURER.

SUCTION FAN	MINIMUM FLOW RATE
SF-1	25 CMF at 15 IWC
SF-2	27 CFM at 15 IWC
SF-3	29 CFM at 15 IWC
SF-4	27 CFM at 15 IWC
SF-5	29 CFM at 15 IWC
SF-6	29 CFM at 15 IWC
SF-7	9 CFM at 15 IWC
SF-8	38 CFM at 15 IWC
SF-9	38 CFM at 15 IWC
SF-10	33 CFM at 15 IWC
SF-11	22 CFM at 15 IWC
SF-12	8 CFM at 15 IWC
SF-13	2 CFM at 15 IWC

- VFD BYPASS.
- MANAGER'S APPROVAL PRIOR TO INSTALLATION.
- MANUFACTURER.
- FOR DESIGN OF ELECTRICAL ITEMS):
 - SUB-SLAB VAPOR VENTING SYSTEM ALARM BLOWER MALFUNCTION IF LIT
 - SERVICE BLOWER FAN IMMEDIATELY
- TO MEP DRAWINGS FOR DESIGN OF ELECTRICAL ITEMS).
- ABOVE-SLAB PIPING AND BLOWER ASSEMBLY
- ARCHITECT AND ACOUSTICAL CONSULTANT

METHANE MONITORING SYSTEM NOTES:

- INDOOR AMBIENT METHANE GAS INFRARED SENSOR/TRANSMITTERS. HONEYWELL ONE FOOT BELOW THE CEILING. AT SELECTED LOCATIONS
- ADDRESS THIS ALARM CONDITION.
- FIRE ALARM MUST BE COORDINATED WITH THE MEP ENGINEER

2. THE COMPOSITE BLOWER ASSEMBLY INCLUDING BLOWER, MOTOR, BASEPLATE, CONTROL PANEL, REMOTE VISUAL ALARM, VALVES, GAUGES, FILTER, AND FLEXIBLE HOSE SHALL BE

3. BLOWER ASSEMBLY TO BE INSTALLED SHALL PROVIDE AT CONTINUOUS OPERATION OF A MINIMUM FLOW RATE AND VACUUM AT THE VACUUM BLOWER AS SPECIFIED BELOW

4. BLOWERS FOR SF-1 THROUGH SF-6 TO BE INSTALLED SHALL BE AIRTECH 3BA1630 (7AT06) OR APPROVED ALTERNATE WITH VARIABLE FREQUENCY DRIVE (VFD) BYPASS. BLOWERS FOR SF-7 AND SF-12 TO BE INSTALLED SHALL BE AIRTECH 3BA1400 (7AT06) OR APPROVED ALTERNATE WITH VFD BYPASS. BLOWERS FOR SF-8 THROUGH SF-11 TO BE INSTALLED SHALL BE AIRTECH 3BA1800 (7AT06) OR APPROVED ALTERNATE WITH VFD BYPASS. CONTRACTOR TO SUBMIT DETAILED WIRING DIAGRAM FOR ALL FAN CONTROLS, INCLUDING

THE BLOWER SCHEMATICS ARE SHOWN TO ILLUSTRATE THE REQUIRED COMPONENT AND THE GENERAL LOCATIONS IN THE PIPE RUN AND SHALL NOT BE CONSIDERED TO BE ACCURATE. THE ACTUAL CONFIGURATION AND DIMENSIONS OF THE BLOWER ASSEMBLY WILL VARY BASED ON MANUFACTURING METHODS AND FIELD CONDITIONS. FINAL DESIGN AND BLOWER SYSTEM SELECTED ARE SUBJECT TO APPROVAL BY THE ENGINEER. PROVIDE ALL BLOWER SPECIFICATIONS AND CUT SHEETS FOR COMMISSION AND/OR CONSTRUCTION

6. THE BLOWERS SHALL BE INSTALLED WITHIN A SOUND ENCLOSURE BY THE BLOWER

7. THE ELECTRICAL PANEL FOR THE BLOWERS SHALL INCLUDE AN AUXILIARY CONTACT FOR THE REMOTE ALARM AND WILL BE MOUNTED ON THE EXTERIOR OF THE SOUND ENCLOSURE THE REMOTE ALARM SHALL BE LOCATED WITHIN THE BUILDING AND SHALL BE EASILY ACCESSIBLE. THE ALARM SHALL CONSIST OF A WARNING LIGHT AND ASSOCIATED RELAYS THE REMOTE ALARM AND CONTROL PANEL SHALL BE CONFIGURED SUCH THAT IF THE BLOWER STOPS OPERATING, THE REMOTE ALARM WILL BE ACTIVATED. ALTERNATIVELY, IF A BUILDING MANAGEMENT SYSTEM IS TO BE INSTALLED, THE REMOTE ALARM WILL CAN BE CONFIGURED THROUGH THIS SYSTEM. A 120V ELECTRICAL SUPPLY SHALL BE PROVIDED TO THE REMOTE ALARM (REFER TO MEP DRAWINGS FOR DESIGN OF ELECTRICAL ITEMS).

THE REMOTE VISUAL ALARM SHALL BE LABELED AS FOLLOWS (REFER TO MEP DRAWINGS

10. SUPPLY POWER TO BLOWER ASSEMBLY, INCLUDING BLOWER, CONTROL PANEL, AND REMOTE ALARM, IN ACCORDANCE WITH THE BLOWER MANUFACTURER AND ELECTRICAL SPECIFICATIONS (TO BE PREPARED BY MEP ENGINEER). THE 3BA1630 (7AT06) BLOWER HAS A 2.75 HORSEPOWER MOTOR AND REQUIRES A THREE PHASE, 60 HZ 220-250V/415-460V POWER SUPPLY. THE 3BA1400 (7AT06) BLOWER HAS A 1.11 HORSEPOWER MOTOR AND REQUIRES A THREE PHASE, 60 HZ 220-250V/415-460V POWER SUPPLY. THE 3BA1800 (7AT06) BLOWER HAS A 6.16 HORSEPOWER MOTOR AND REQUIRES A THREE PHASE, 60 HZ 220-250V/415-460V POWER SUPPLY. THE 3BA7210 (0AT16) BLOWER HAS A 1.11 HORSEPOWER MOTOR AND REQUIRES A THREE PHASE, 60 HZ 220-250V/415-460V POWER SUPPLY (REFER

11. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR DESIGN AND LOCATION OF

12. COORDINATE BLOWER SOUND AND/OR VIBRATION ATTENUATION REQUIREMENTS WITH

13. BLOWERS MUST BE EXPLOSION PROOF AND HOUSED IN A CLASS I DIVISION II ENCLOSURE BLOWERS MUST BE INSTALLED WITHIN THE ENCLOSURE BY THE BLOWER MANUFACTURER

SENSEPOINT XCL OR APPROVED EQUAL WALL-MOUNTED UNITS THAT CONTAIN A STATUS INDICATOR, TWO ALARM SET-POINTS [10% LEL AND 20% LEL], AND A SENSOR FAULT WILL BE INSTALLED THROUGHOUT THE BUILDING TO CONTINUOUSLY MONITOR AMBIENT AIR METHANE CONCENTRATIONS. INDOOR AMBIENT AIR METHANE SENSORS WILL BE INSTALLED

2. IF THE AMBIENT INDOOR METHANE CONCENTRATION AT ANY SENSEPOINT XCL SENSOR LOCATION EXCEEDS 10% LEL [0.5% METHANE GAS CONCENTRATION BY VOLUME], OR ANY METHANE SENSOR FAULT IS DETECTED, THE ALARM RELAY WILL ENERGIZE THE YELLOW WARNING LIGHT AT THE CONTROLLER AND A WARNING NOTIFICATION WILL BE SENT TO THE BUILDING MANAGEMENT SYSTEM TO INVESTIGATE AND TAKE APPROPRIATE ACTION TO

IF THE AMBIENT INDOOR METHANE CONCENTRATION AT ANY SENSEPOINT XCL SENSOR LOCATION EXCEEDS 20% LEL [1.00 % METHANE GAS CONCENTRATION BY VOLUME], THE FIRE ALARM CONTROL PANEL WILL BE NOTIFIED, THE ALARM WILL BE ACTIVATED, AND EMERGENCY RESPONSE PROCEDURES WILL BE INITIATED IN ACCORDANCE WITH THE OPERATIONS, MAINTENANCE, AND MONITORING PLAN. THE CONTROLS FOR THE BUILDING



Project NYCFC WILLETS POINT STADIUM FLUSHING, NY 11368

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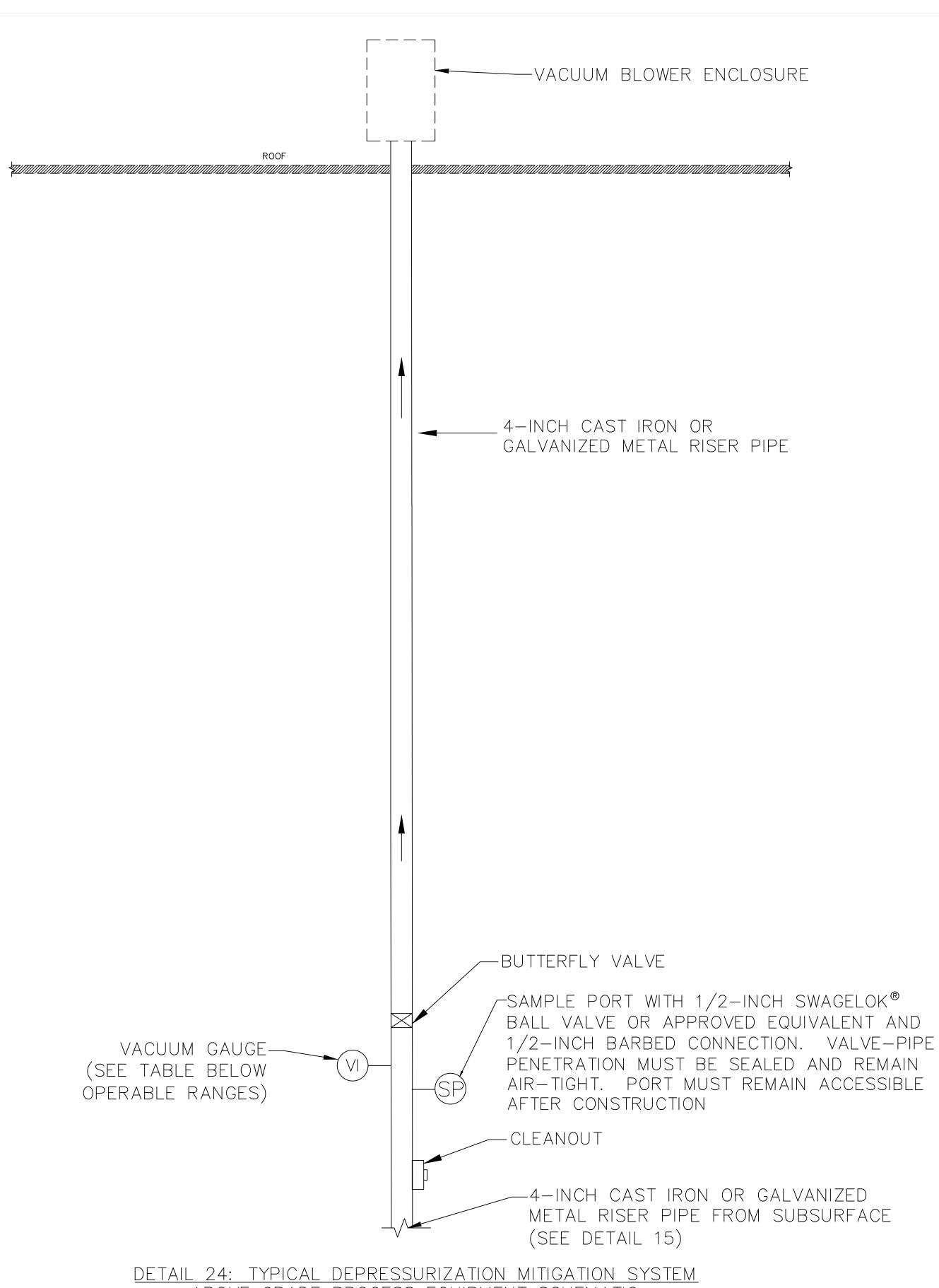


DEPRESSURIZATION SYSTEM DETAILS - 2

H-202.00

					FAN SCHEDULE					
UNIT NO.	AREAS SERVED	SERVICE	LOCATION	MOTOR SIZE	CFM REQUIREMENT RANGE	E (CFM AT INCHES WC [IWC])	MOTOR REQUIREMENTS			MANUFACTURER/MODEL
SF-1	SYSTEM 1	SSDS	PRESS/TERRACE LEVEL	2.75 HP	25 CFM AT 15 IWC	211 CFM AT 25 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)
SF-2	SYSTEM 2	SSDS	PRESS/TERRACE LEVEL	2.75 HP	27 CFM AT 15 IWC	230 CFM AT 26 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)
SF-3	SYSTEM 3	SSDS	PRESS/TERRACE LEVEL	2.75 HP	29 CFM AT 15 IWC	252 CFM AT 31 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)
SF-4	SYSTEM 4	SSDS	PRESS/TERRACE LEVEL	2.75 HP	27 CFM AT 15 IWC	232 CFM AT 28 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)
SF-5	SYSTEM 5	SSDS	LOWER SUITE LEVEL	2.75 HP	29 CFM AT 15 IWC	250 CFM AT 24 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)
SF-6	SYSTEM 6	SSDS	LOWER SUITE LEVEL	2.75 HP	29 CFM AT 15 IWC	247 CFM AT 26 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)
SF-7	SYSTEM 7	SSDS	LOWER SUITE LEVEL	1.11 HP	9 CFM AT 15 IWC	78 CFM AT 11 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1400 (7AT06)
SF-8	SYSTEM 8	SSDS	LOWER SUITE LEVEL	6.16 HP	38 CFM AT 15 IWC	323 CFM AT 43 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1800 (7AT06)
SF-9	SYSTEM 9	SSDS	LOWER SUITE LEVEL	6.16 HP	38 CFM AT 15 IWC	326 CFM AT 38 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1800 (7AT06)
SF-10	SYSTEM 10	SSDS	LOWER SUITE LEVEL	6.16 HP	33 CFM AT 15 IWC	280 CFM AT 38 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1800 (7AT06)
SF-11	SYSTEM 11	SSDS	LOWER SUITE LEVEL	2.7 HP	22 CFM AT 15 IWC	190 CFM AT 22 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1600 (7AT06)
SF-12	SYSTEM 12	SSDS	LOWER SUITE LEVEL	1.11 HP	8 CFM AT 15 IWC	68 CFM AT 11 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1400 (7AT06)
SF-13	SYSTEM 13	SSDS	LOWER SUITE LEVEL	1.11 HP	2 CFM AT 15 IWC	19 CFM AT 11 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA7210 (0AT16)

	VACUUM GAUGE	E SCHEDULE
AREA OF SERVICE	RANGE	MANUFACTURER/MODEL
SYSTEM 1	0-40 IWC	WIKA TYPE 611.10
SYSTEM 2	0-40 IWC	WIKA TYPE 611.10
SYSTEM 3	0-60 IWC	WIKA TYPE 611.10
SYSTEM 4	0-40 IWC	WIKA TYPE 611.10
SYSTEM 5	0-40 IWC	WIKA TYPE 611.10
SYSTEM 6	0-40 IWC	WIKA TYPE 611.10
1900, SYSTEM 7	0-25 IWC	WIKA TYPE 611.10
SYSTEM 8	0-60 IWC	WIKA TYPE 611.10
SYSTEM 9	0-60 IWC	WIKA TYPE 611.10
SYSTEM 10	0-60 IWC	WIKA TYPE 611.10
086 SYSTEM 11	0-40 IWC	WIKA TYPE 611.10
SYSTEM 12	0-25 IWC	WIKA TYPE 611.10
SYSTEM 13	0-25 IWC	WIKA TYPE 611.10
)(SYSTEM 12	SYSTEM 12 0-25 IWC



DETAIL 24: TYPICAL DEPRESSURIZATION MITIGATION SYSTEM ABOVE GRADE PROCESS EQUIPMENT SCHEMATIC NOT TO SCALE

NOTES:

- CODES.

1. EXTENSION OF THE DEPRESSURIZATION SYSTEM PIPING MUST BE COORDINATED WITH STRUCTURAL ENGINEERS AND ARCHITECTS IN ACCORDANCE WITH ALL APPLICABLE BUILDING

2. BLOWERS MUST BE EXPLOSION PROOF AND HOUSED IN A CLASS I DIVISION II ENCLOSURE. BLOWERS MUST BE INSTALLED WITHIN THE ENCLOSURE BY THE BLOWER MANUFACTURER.



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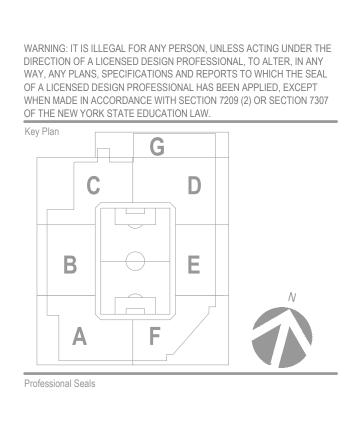
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No.	Description	Date
1	EARLY UNDERGROUND UTILITY PACKAGE	5/16/202
B-Scan		
Dudu		
Package: Issue Date:	EARLY UNDERGROUND UTILITY PAG MAY 16, 2024	CKAGE
Project No:	22.70086.00	
Sheet Title		
SUF	3-MEMBRANE	
DEF	PRESSURIZATION	
	STEM DETAILS - 3	

Original is 48 x 36. Do not scale contents of this drawing. Sheet Number H-203.00 TABLE 1

FAN SCHEDULE

LANGAN

Table 1 Fan Schedule NYSDEC Notification Letter - SMD System Design BCP Site No. C241146C Langan Project No. 170613801

	FAN SCHEDULE										
UNIT NO.	AREAS SERVED	SERVICE	LOCATION	MOTOR SIZE		NGE (CFM AT INCHES WC /C])	MOTOR REQUIREMENTS			MANUFACTURER/MODEL	
SF-1	SYSTEM 1	SSDS	PRESS/TERRACE LEVEL	2.75 HP	25 CFM AT 15 IWC	211 CFM AT 25 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)	
SF-2	SYSTEM 2	SSDS	PRESS/TERRACE LEVEL	2.75 HP	27 CFM AT 15 IWC	230 CFM AT 26 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)	
SF-3	SYSTEM 3	SSDS	PRESS/TERRACE LEVEL	2.75 HP	29 CFM AT 15 IWC	252 CFM AT 31 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)	
SF-4	SYSTEM 4	SSDS	PRESS/TERRACE LEVEL	2.75 HP	27 CFM AT 15 IWC	232 CFM AT 28 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)	
SF-5	SYSTEM 5	SSDS	LOWER SUITE LEVEL	2.75 HP	29 CFM AT 15 IWC	250 CFM AT 24 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)	
SF-6	SYSTEM 6	SSDS	LOWER SUITE LEVEL	2.75 HP	29 CFM AT 15 IWC	247 CFM AT 26 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1630 (7AT06)	
SF-7	SYSTEM 7	SSDS	LOWER SUITE LEVEL	1.11 HP	9 CFM AT 15 IWC	78 CFM AT 11 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1400 (7AT06)	
SF-8	SYSTEM 8	SSDS	LOWER SUITE LEVEL	6.16 HP	38 CFM AT 15 IWC	323 CFM AT 43 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1800 (7AT06)	
SF-9	SYSTEM 9	SSDS	LOWER SUITE LEVEL	6.16 HP	38 CFM AT 15 IWC	326 CFM AT 38 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1800 (7AT06)	
SF-10	SYSTEM 10	SSDS	LOWER SUITE LEVEL	6.16 HP	33 CFM AT 15 IWC	280 CFM AT 38 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1800 (7AT06)	
SF-11	SYSTEM 11	SSDS	LOWER SUITE LEVEL	2.7 HP	22 CFM AT 15 IWC	190 CFM AT 22 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1600 (7AT06)	
SF-12	SYSTEM 12	SSDS	LOWER SUITE LEVEL	1.11 HP	8 CFM AT 15 IWC	68 CFM AT 11 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA1400 (7AT06)	
SF-13	SYSTEM 13	SSDS	LOWER SUITE LEVEL	1.11 HP	2 CFM AT 15 IWC	19 CFM AT 11 IWC	3 PHASE	60 HZ	220-250V/415-460V	AIRTECH 3BA7210 (0AT16)	