BID ADDENDUM NO. 1

December 15, 2025
Corning-Painted Post Area School District
2025 Bus Garage, Admin & Stadium Alterations
2649.154

SED #57-10-00-01-5-015-010 – Bus Garage
SED #57-10-00-01-2-001-013 – Administration Building
SED #57-10-00-01-7-026-010 – Stadium

The following Addendum items shall be considered as part of the contract documents prepared by HUNT ENGINEERS, ARCHITECTS, LAND SURVEYORS & LANDSCAPE ARCHITECT, DPC. Bid Document date of 11/13/2025.

Clarifications issued by this Addendum:

Final C-PP BG-AD-ST RFI Log

Project Manual Sections issued by this Addendum:

33 44 19 – Stormwater Treatment Unit

Drawings issued by this Addendum:

AD1-H1 ROOF DUCTWORK PLAN REVISIONS
AD1-H2 ROOF HVAC DEMO PLAN REVISIONS
AD1-H3 ROOF HVAC DUCTWORK PLAN - AREA B REVISIONS
AD1-H4 ROOF HVAC DEMO PLAN – AREA B REVISIONS
AD1-L1 REVISION IMPROVEMENT NOTE 11
AD1-L2 GENERATOR PAD DETAIL
AD1-L3.1 SITE GRADING PLAN
AD1-L4.1 SITE UTILITY PLAN
AD1-L5.3 SITE DETAILS
AD1-A1.1 – FIRST FLOOR PLAN
AD1-A1.2 – ROOF PLAN

Revisions to Project Manual issued by this Addendum:

ITEM AD1-1 Refer to Table of Contents
ADD "33 44 19 – Stormwater Treatment" as included in this addendum.

ITEM AD1-2 Refer to Specification Section 11 81 29 Facility Fall Protection
DELETE Specification Section 11 81 29 Facility Fall Protection
ADD Specification Section 11 81 29 Facility Fall Protection as issued by this addendum.

Revisions to Drawings issued by this Addendum:

ITEM AD1-3 Refer to BG-H1.1 – ROOF HVAC PLANS
AMEND Detail 2 with AD1-H1 ROOF DUCTWORK PLAN REVISIONS as issued by this addendum.

ITEM AD1-4 Refer to BG-H1.1 – ROOF HVAC PLANS
AMEND Detail 1 with AD1-H2 ROOF HVAC DEMO PLAN REVISIONS as issued by this addendum.

ITEM AD1-5 Refer to BG-H1.1 – ROOF HVAC PLANS
AMEND Note D1 of DEMOLITION NOTES – MECHANICAL to read as follows: "DISCONNECT AND REMOVE EXISTING ROOF MOUNTED EXHAUST FAN. RETAIN FOR REINSTALLATION."

ITEM AD1-6 Refer to BG-H1.1 – ROOF HVAC PLANS
ADD Note D2 to DEMOLITION NOTES – MECHANICAL. Note to read as follows: "DISCONNECT AND REMOVE EXISTING ROOFTOP UNIT. RETAIN FOR REINSTALLATION."

ITEM AD1-7 Refer to BG-H1.1 – ROOF HVAC PLANS
AMEND Note 1 of CONSTRUCTION NOTES – MECHANICAL to read as follows: "REINSTALL EXISTING ROOF MOUNTED EXHAUST FAN. PROVIDE 18" HIGH ROOF CURB. EXTEND AND RECONNECT DUCTWORK AS NECESSARY"

ITEM AD1-8 Refer to BG-H1.1 – ROOF HVAC PLANS
ADD Note 2 to CONSTRUCTION NOTES – MECHANICAL. Note to read as follows: "REINSTALL EXISTING ROOFTOP UNIT. PROVIDE 18" HIGH ROOF CURB. EXTEND AND RECONNECT DUCTWORK AS NECESSARY"

ITEM AD1-9 Refer to AD-H1.1 – ROOF HVAC PLAN
AMEND Note D1 of DEMOLITION NOTES – MECHANICAL to read as follows: "DISCONNECT AND REMOVE EXISTING ROOF INTAKE HOOD. RETAIN FOR REINSTALLATION."

ITEM AD1-10 Refer to AD-H1.1 – ROOF HVAC PLAN

ADD **Note D6 to DEMOLITION NOTES – MECHANICAL. Note to read as follows: "DISCONNECT AND REMOVE EXISTING LOUVERED PENTHOUSE. RETAIN FOR REINSTALLATION."**

ITEM AD1-11 **Refer to AD-H1.1 – ROOF HVAC PLAN**
AMEND **Note 1 of CONSTRUCTION NOTES – MECHANICAL to read as follows: "REINSTALL EXISTING ROOF INTAKE HOOD. PROVIDE 18" HIGH ROOF CURB. EXTEND AND RECONNECT DUCTWORK AS NECESSARY"**

ITEM AD1-12 **Refer to AD-H1.1 – ROOF HVAC PLAN**
ADD **Note 2 to CONSTRUCTION NOTES – MECHANICAL. Note to read as follows: "REINSTALL EXISTING LOUVERED PENTHOUSE. PROVIDE 18" HIGH ROOF CURB. EXTEND AND RECONNECT DUCTWORK AS NECESSARY"**

ITEM AD1-13 **Refer to AD-H1.1 – ROOF HVAC PLAN**
AMEND **Detail 2 with AD1-H3** ROOF HVAC DUCTWORK PLAN REVISIONS as issued by this addendum.

ITEM AD1-14 **Refer to AD-H1.1 – ROOF HVAC PLAN**
AMEND **Detail 1 with AD1-H4** ROOF HVAC DEMO PLAN – AREA B REVISIONS as issued by this addendum.

ITEM AD1-15 **Refer to BG-L21 - SITE DEMOLITION PLAN**
ADD **General Note B: Remove Existing 12" cal. Evergreen tree centrally located south of the Bus Garage fence within the lawn area as required to complete work. Not shown on Plan.**

ITEM AD1-16 **Refer to BG-L5.1 - SITE DETAILS**
AMEND **Detail 5 Concrete Mow Strip Under Fence 24" dimension with See Site Layout Plan and 12" to center to See Site Layout Plan.**

ITEM AD1-17 **Refer to BG-L21 - SITE IMPROVEMENT PLAN**
AMEND **Improvement Note #3: "4' " to read "4" ".**

ITEM AD1-18 **Refer to BG-L21 - SITE IMPROVEMENT PLAN**
ADD **Improvement Note #6: "BASE BID: REGRADE TOPSOIL, SEED, AND MULCH"**

ITEM AD1-19 **Refer to BG-L21 - SITE IMPROVEMENT PLAN**
AMMEND **Improvement Note #10: "1/2" " to read "1 ½" ".**

ITEM AD1-20 **Refer to BG-L21 - SITE IMPROVEMENT PLAN**
AMMEND **Improvement Note #15: "4' " to read "4" ".**

ITEM AD1-21 **Refer to BG-L21 - SITE IMPROVEMENT PLAN**

ADD Drawing: "AD-L1 REVISION IMPROVEMENT NOTE 11" as attached in this addendum

ITEM AD1-22 Refer to BG-L3.1 SITE GRADING PLAN
DELETE Drawing: "BG-L3.1 SITE GRADING PLAN"
ADD Drawing: "BG-L3.1 SITE GRADING PLAN" as attached in this addendum

ITEM AD1-23 Refer to BG-4.1 SITE UTILITY PLAN
DELETE Drawing: "BG-L4.1 SITE UTILITY PLAN"
ADD Drawing: "BG-L4.1 SITE UTILITY PLAN" as attached in this addendum

ITEM AD1-24 Refer to BG-L5.1 SITE DETAILS
ADD Drawing: "AD1-L2 GENERATOR PAD DETAIL" as attached in this addendum

ITEM AD1-25 Refer to BG-L5.3 SITE DETAILS
DELETE Drawing: "BG-L5.3 SITE DETAILS"
ADD Drawing: "BG-L5.3 SITE DETAILS as attached in this addendum

ITEM AD1-26 Refer to AD-A1.1 – FIRST FLOOR PLAN
DELETE Drawing "AD-A1.1 – FIRST FLOOR PLAN"
ADD Drawing "AD-A1.1 – FIRST FLOOR PLAN" as attached in this addendum

ITEM AD1-27 Refer to AD-A1.2 – ROOF PLAN
DELETE Drawing "AD-A1.2 – ROOF PLAN"
ADD Drawing "AD-A1.2 – ROOF PLAN" as attached in this addendum

End of Addendum #1

C-PP Bus Garage, Admin Bldg & Stadium Project - Pre-Bid RFI's

Item #	Drawing	Detail #	Spec Section	Note #	Questions	Date	From	Response/Status	By	Date
1	AD-A1.1		08 43 13 or 08 11 16		Is door '100' Aluminum EFCO D518 per 084313 2.3 A 1 or Special-lite SL-20 FRP per 081116 2.1 A 1	11/25/2025	Southern Glass	EFCO D518	MP	12/15/2025
2	BG-A1.3	5			They note the access ladders to be galvanized. The ladder specification only notes aluminum ladders. What material should roof ladders be made out of?	12/9/2025	ESI	Aluminum	MP	12/15/2025
3	AD-H1.1 & BG-H1.1				Please provide information for the type of unit & weights for the equipment being removed & reinstalled on the roofs.	12/2/2025	Kimble	Unit weights are unknown. See AD1 for unit types	KG	12/15/2025
4	AD-P1.1				Detail 3 on AD-P1.1 shows 3" gas to new boiler. If this is a replacement of an existing system, will there be demo needed?	12/9/2025	Pitstop Plumbing	No	KG	12/15/2025
5					Will megapress XL be be a suitable solution for the limited scope of a new gas pipe on this project?	12/9/2025	Pitstop Plumbing	Yes	KG	12/15/2025
6			22 10 05 2.3 A		Can we use pro press fittings for 2-1/2" and smaller piping on this project?	12/9/2025	F&C	Yes	KG	12/15/2025
7			230923		work by others mentions air flow stations, flow meters and flow switches and dampers. I do not see any of these on documents. Are there any in this project?	12/10/2025	Day	Correct. None in project	KG	12/15/2025
8			23 09 23		C2B also states to furnish detectors and wire to the building fire alarm system. I believe this should be excluded from BAS controls spec.	12/10/2025	Day	This is covered in fire alarm spec.	MB	12/15/2025
9					How will the new boiler be controlled? BMS or will new bopiler be manager boiler?	12/10/2025	Day	BMS	KG	12/15/2025
10			075400		CentiMark has a spray foam and coating division who could reinstall the existing spray foam roof system. The new product provides a higher R value per inch than polyiso and results in a monolithic system edge to edge. Is there any interest in allowing a sprayed polyurethane foam roof solution?	12/11/2025	Edger	C-PP has adopted TPO as their standard roofing material, therefore a new spray foam roofing system will not be an option.	MP	12/15/2025
11	BG-L2.1				Site improvement #10 says provide 1/2" pavement overlay detail 1/BG-5.1. Should this depth read 1-1/2"?	12/11/2025	Edger	Refer to Bid Addendum #1	LG	12/15/2025
12	BG-L2.1				Site improvement note #6 says alternate 7 provide HD asphalt pavement and subbase. Is Alt #7 to supply and install HD pavement exclusively with all other prep and finish work part of base bid?	12/11/2025	Edger	Refer to Bid Addendum #1	LG	12/15/2025
13	BG-L2.1				Site improvement note #11, alternate 6 provide flagpole per detail 10/BG-L5.2, is shown in 3 locations (SW corner of building, mid point and NE corner of Alt #7 paving area) Please confirm that only the flagpole at the SW corner of the bus garage is required.	12/11/2025	Edger	Refer to Bid Addendum #1	LG	12/15/2025
14	BG-L4.1				Is Alternate #7 area storm system representative of required storm water retention layout? Is the retention system to be approximately 30'x33'? What size storm chambers? Four rows of four chambers? What size pipe from 2'x2' catch basins to what size, depth and type of water quality manhole? What size pipe between manholes and manifold to storm chambers?	12/11/2025	Edger	Refer to Bid Addendum #1	LG	12/15/2025
15	BG-L2.1				Site work at the bus garage - Alt #7, is extending the parking lot further. Does this include the catch basin and stormwater management to be put in at Alt 7 too? In addition, there is no rim elevations on the catch basins. Please advise.	12/11/2025	Edger	Refer to Bid Addendum #1	LG	12/15/2025
16	BG-L2.1				Does the fence move out to the edge of Alternate 7 asphalt as well? Please advise.	12/11/2025	LeChase	Refer to Bid Addendum #1	LG	12/15/2025
17					Please clarify if the is any GC work associated with Alternates 2 & 3.	12/11/2025	LeChase	Refer to Bid Addendum #1	MP	12/15/2025
18					Please advise what thickness the generator pad is?	12/11/2025	LeChase	Refer to Bid Addendum #1	LG	
19	BG-L4.1				Natural Gas piping on BG-L4.1 assume to be done by Site Contractor? Please provide detail for natural gas piping connection by Plumbing Contractor to Site Contractor.	12/11/2025	Frey	Plumbing contractor to provide gas piping to five feet outside of the building. Coordinate connection to site work.	LG	12/15/2025
20			01 10 00 and 09 65 00		The summary of work states the EC is responsible for providing grounding connections to the anti-static strips to building ground. Where are these connection points to the anti-static strips? What size wire should be used for the connections? What hardware is needed to connect to the strips?	12/11/2025	John Mills	See specs 27 05 26 for telecommunications grounding requirements.	JLS	15-Dec

Item #	Drawing	Detail #	Spec Section	Note #	Questions	Date	From	Response/Status	By	Date
21	ST-T1.2		27 41 00		Drawing ST-T1.2 note 5 states to upgrade rack components to restore reliablt and clear funtionality. Do all components need to be replaced? If not, which components need to be replace? Additionally, specification section 27 41 00 does not give any part numbers for the new equipment. Please provide complete details regarding what equipment needs to be replaced and what it should be replaced with.	12/11/2025	John Mills	All components to be upgraded.	JLS	15-Dec
22	AD-H2.1				Pump schedule indicates an inline pump while the detail for that pump shows a base mounted pump. Can you please provide further detail as to what the pump should be quoted as.	12/8/2025	F&C	Detail 5 shows a Floor Mounted Inline Pump, meaning the inline pump will be mounted on the floor with supports.	KEG	12/15/2025
23	AD-H2.1				What is this symbol supposed to mean? It is not clarified within the symbol list for this project. Please advise	12/10/2025	F&C	This is a point of connection symbol, its just missing the two shaded regions. For the point at which the PC takes over gas piping from the MC	KEG	12/15/2025
24			01 10 00 1.10 3 a 1		Does division 28 Electronic safety and secutiry fall under the Plumbing contract for this project?	12/12/2025	F&C	No	MB	12/15/2025

SECTION 11 81 29
FACILITY FALL PROTECTION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Roof anchors.

B. Horizontal lifeline systems.

C. Safety railings and gates.

1.2 REFERENCE STANDARDS

A. 29 CFR 1910.29 - Fall Protection Systems and Falling Object Protection - Criteria and Practices; Current Edition.

B. 29 CFR 1926.502 - Fall protection systems criteria and practices; Current Edition.

C. ANSI/ASSP Z359.12 - Connecting Components for Personal Fall Arrest Systems; 2019.

D. ANSI/ASSP Z359.15 - Safety Requirements for Single Anchor Lifelines and Fall Arresters for Personal Fall Arrest Systems; 2014.

E. ASTM A6/A6M - Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling; 2022.

F. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

G. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.

H. ASTM A283/A283M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates; 2018.

I. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2021a.

J. ASTM A501/A501M - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing; 2021.

K. ASTM A1023/A1023M - Standard Specification for Carbon Steel Wire Ropes for General Purposes; 2021.

L. ASTM E935 - Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings; 2021.

M. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength; 2022.

N. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021.

O. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2022).

P. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer; 2004.

1.3 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide manufacturer's data sheets on each ladder safety system product to be used, including installation instructions.

C. Product Data: Material, equipment, and fixture lists. Manufacturer's catalog data indicating the sizes, descriptions, capacities, test certifications, and other descriptive data showing in sufficient detail that product complies with contract requirements. Equipment and performance data including but not limited to lifeline anchors, safety tieback anchors, and lifeline cable.

D. Certificate: Certify that products of this section meet or exceed specified requirements.

E. Manufacturer's Installation Instructions: Instructions indicating recommended method and sequence of installation for lifeline anchors, safety tieback anchors, energy-absorbing devices, and lifeline cable.

F. Manufacturer's qualification statement.

G. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated within the previous 12 months.

H. Designer's qualification statement.

1.4 QUALITY ASSURANCE

A. Designer Qualifications: Perform design under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State of New York.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least five years of documented experience.

C. Welder Qualifications: Welding processes and welding operators qualified within previous 12 months.

1.5 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Extended Correction Period: Correct defective work within 2-year period commencing on Date of Substantial Completion.

PART 2 PRODUCTS

2.1 ROOF ANCHORS

A. Application:

B. Structural Performance: Provide safety tieback anchors capable of withstanding design loads as required by governing regulations and codes.

C. Anchor Installation:

2.2 HORIZONTAL LIFELINE SYSTEMS

A. Manufacturers:
1. 3M Personal Safety Division: www.3M.com/FallProtection/#sle.

2. EDGE Fall Protection: www.edgefallprotection.com/#sle.
3. Guardian Fall Protection: www.guardianfall.com/#sle.
4. Pro-Bel Enterprises Ltd: www.pro-bel.ca/#sle.
5. Super Anchor Safety: www.superanchor.com/#sle.
6. Tractel; Horizontal Lifeline: www.tractel.com/us/#sle.
7. Substitutions: See Section 01 60 00 - Product Requirements.

B. Description: A system comprised of a flexible line such as wire rope or cable, with connectors at both ends to secure it horizontally between two anchorages or anchorage connectors.

C. Structural Performance: Provide fall-arresting lifeline systems capable of withstanding design loads as required by governing regulations and codes.

D. Design Criteria:
1. Comply with ANSI/ASSP Z359.12.
2. Comply with ANSI/ASSP Z359.15.
3. Comply with 29 CFR 1926.502.

E. Wire Rope: ASTM A1023/A1023M, 7x7 galvanized wire , 5/16 inch diameter.
1. Stainless Steel Rigging Components: Consisting of turnbuckles, cable clamps, spring energy absorbers, absorber couplers, eye thimbles, bolts, and connector O-rings as required to make a complete and functional HLL system compatible with installed anchors.

2.3 SAFETY RAILINGS AND GATES

A. Manufacturers:
1. Garlock Equipment Company: www.garlocksafety.com/#sle.
2. Guardian Fall Protection: www.guardianfall.com/#sle.
3. Substitutions: See Section 01 60 00 - Product Requirements.

B. Safety Railings and Gates: Permanent mount safety railings and gates.

C. Design Criteria:
1. Railing: Comply with 29 CFR 1910.29 and 29 CFR 1926.502 for fall protection.
2. Design, fabricate, and test railing assemblies in accordance with the most stringent requirements of applicable local code.
3. Distributed Loads: Design railing assembly and attachments to resist distributed force of 75 pounds per linear foot applied to the top of the assembly and in any direction, without damage or permanent set. Test in accordance with ASTM E935.
4. Concentrated Loads: Design railing assembly and attachments to resist a concentrated force of 200 pounds applied at any point on the top of the assembly and in any direction, without damage or permanent set. Test in accordance with ASTM E935.

D. Railing Dimensions: See drawings for configurations and heights.
1. Top Rails: 1-1/2-inch diameter, round.
2. Intermediate Rails: 1-1/2-inch diameter, round.
3. Posts: 1-1/2-inch diameter, round.

E. Provide anchors and other components as required to attach to structure, made of same materials as railing components unless otherwise indicated; where exposed fasteners are unavoidable, provide flush countersunk fasteners.

F. Welded Joints: Make visible joints butt tight, flush, and hairline; use methods that avoid discoloration and damage of finish; grind smooth, polish, and restore to required finish.
1. Ease exposed edges to a small uniform radius.
2. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.

G. Self-Closing Gate: Comply with 29 CFR 1910.29 for safe egress and fall protection.

H. Posts and Rails: Galvanized steel tubing.

I. Finish: Manufacturer's standard, factory-applied finish.

2.4 MATERIALS - STEEL

A. Structural Steel Sections: ASTM A36/A36M.

B. Steel Plates, Shapes, and Bars: ASTM A6/A6M or ASTM A283/A283M.

C. Steel Tubing: ASTM A500/A500M or ASTM A501/A501M structural tubing, round and shapes as indicated.

D. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

E. Steel Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, and galvanized in accordance with ASTM A153/A153M where connecting galvanized hardware components.

F. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine area for compliance with requirements for installation tolerances and other conditions related to this work.

B. Confirm that the ladder structure to which the ladder safety system is installed can withstand the loads applied by the system in the event of a fall.

C. Proceed with installation after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install anchorage and fasteners in accordance with shop drawings and manufacturer's recommendations to obtain allowable working loads published in product literature and in accordance with this specification.

B. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous coating or by other permanent separation as recommended by fall protection system manufacturer.

C. Deform threads of tail end of anchor studs after nuts have been tightened to prevent accidental removal or vandalism.

D. Do not load or stress anchors until all materials and fasteners are properly installed and ready for service.

3.3 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements for additional requirements.

3.4 ADJUSTING

A. Adjust fall protection components to function smoothly and safely.

END OF SECTION

SECTION 33 44 19
STORMWATER TREATMENT UNIT

PART 1 GENERAL

1.1 DESCRIPTION

A. Scope
   1. The Contractor shall furnish all labor, equipment and materials necessary to install the stormwater treatment unit (STU) and appurtenances specified in the Drawings and these specifications.

1.2 RELATED REQUIREMENTS

A. Section 31 23 16 - Excavation and Fill

B. Section 33 05 13 - Manholes and Structures

C. Requirements
   1. Treat 1.10 cfs of stormwater runoff for 80% total suspended solid removal with a minimum bypass capacity of 2.81 CFS
   2. Enhanced removal of oil and hydrocarbon pollutants anticipated from gas or diesel fuel is required.

1.3 QUALITY ASSURANCES

A. Inspection
   1. All components shall be subject to inspection by the Engineer at the place of manufacture and/or installation. All components are subject to be rejected or identified for repair if the quality of materials and manufacturing do not comply with the requirements of this specification. Components which have been identified as defective may be subject for repair. Final acceptance of the component is contingent upon the discretion of the Engineer.

B. Warranty
   1. The manufacturer shall guarantee the STU components against all manufacturer originated defects in materials or workmanship for a period of twelve (12) months from the date the components are delivered to the owner for installation. The manufacturer shall be notified of repair/replacement issues in writing within the referenced warranty period. The manufacturer shall, upon its determination of repair, correct or replace any manufacturer originated defects identified by written notice within the referenced warranty period. The use of STU components shall be limited to the application for which it was specifically designed.

C. Manufacturer’s Performance Certificate
   1. The STU manufacturer shall submit to the Engineer of Record a “Manufacturer’s Performance Certification” certifying that each STU is capable of achieving the specified removal efficiencies as listed in these specifications. The certification shall be supported by independent third-party research.

1.4 SUBMITTALS

A. Shop Drawings
   1. The contractor shall prepare and submit shop drawings for the Engineer approval. The shop drawings shall detail horizontal and vertical dimensioning, reinforcement and joint type and locations.

B. Calculations
   1. The contractor shall submit certified testing data confirming the manufacturer stated removal efficiencies.
   2. The contractor shall prepare and submit project specific hydraulic calculations showing the treatment capacity of the proposed unit and its ability to accommodate the specified peak conveyance capacity.

PART 2 PRODUCTS

2.1 BASIS OF DESIGN

A. STU unit shall be:Cascade seperator CS-5 manufactured by Contech Engineered Solutions.

B. Or Approved Equal.

C. Substitutions: See Section 01 60 00 - Product Requirements, for substitution procedures.

2.2 MATERIALS AND DESIGN

A. Precast Concrete Components - Precast concrete components shall conform to applicable sections of ASTM C 478, ASTM C 857 and ASTM C 858 and the following:
   1. Concrete shall achieve a minimum 28-day compressive strength of 4,000 pounds per square-inch (psi);
   2. Unless otherwise noted, the precast concrete sections shall be designed to withstand lateral earth and AASHTO H-20 traffic loads;
   3. Cement shall be Type III Portland Cement conforming to ASTM C 150;
   4. Aggregates shall conform to ASTM C 33;
   5. Reinforcing steel shall be deformed billet-steel bars, welded steel wire or deformed welded steel wire conforming to ASTM A 615, A 185 or A 497, respectively;
   6. Joints shall be sealed with preformed joint sealing compound conforming to ASTM C 990 and
   7. Shipping of components shall not be initiated until a minimum compressive strength of 4,000 psi is attained or five (5) calendar days after fabrication has expired, whichever occurs first.

B. Internal Components and Appurtenances - Internal Components and appurtenances shall conform to the following:
   1. Screen and support structure shall be manufactured of Type 316 and 316L stainless steel conforming to ASTM F 1267-01;
   2. Hardware shall be manufactured of Type 316 stainless steel conforming to ASTM A 320;
   3. Fiberglass components shall conform to the National Bureau of Standards PS-15 and coated with an isophalic polyester gelcoat and
   4. Access system(s) conform to the following:
      a. Manhole castings shall be designed to withstand AASHTO H-20 loadings and manufactured of cast-iron conforming to ASTM A 48 Class 30.
      b. Hatch systems shall be designed to withstand AASHTO H-20 loadings. Hatch systems not subject to direct traffic shall be manufactured of Grade 5086 aluminum. Hatch systems subject to direct traffic loads shall be manufactured of steel conforming to ASTM A 36-93a, supplied with a hot-dip galvanized finish conforming to ASTM A 123 and access doors bolted to the frame.

2.3 PERFORMANCE

A. Removal Efficiencies

1. The STU shall be capable of achieving an 80 percent average annual reduction in the total suspended solid load.
2. The STU shall be capable of capturing and retaining 100 percent of pollutants greater than or equal to 2.4 millimeters (mm) regardless of the pollutant's specific gravity (i.e.: floatable and neutrally buoyant materials) for flows up to the device's rated-treatment capacity. The STU shall be designed to retain all previously captured pollutants addressed by this subsection under all flow conditions.

B. Hydraulic Capacity
1. The STU shall provide treatment for the water quality flow rate of 1.10 cfs.
2. The STU shall maintain the peak conveyance capacity of the drainage network of 8.87 cfs.

2.4 MANUFACTURER

A. The manufacturer of the STU shall be one that is regularly engaged in the engineering design and production of systems deployed for the treatment of storm water runoff for at least five (5) years and which have a history of successful production, acceptable to the Engineer. In accordance with the Drawings, the STU(s) shall be manufactured by an American or Canadian based company.

PART 3 EXECUTION

3.1 HANDLING AND STORAGE

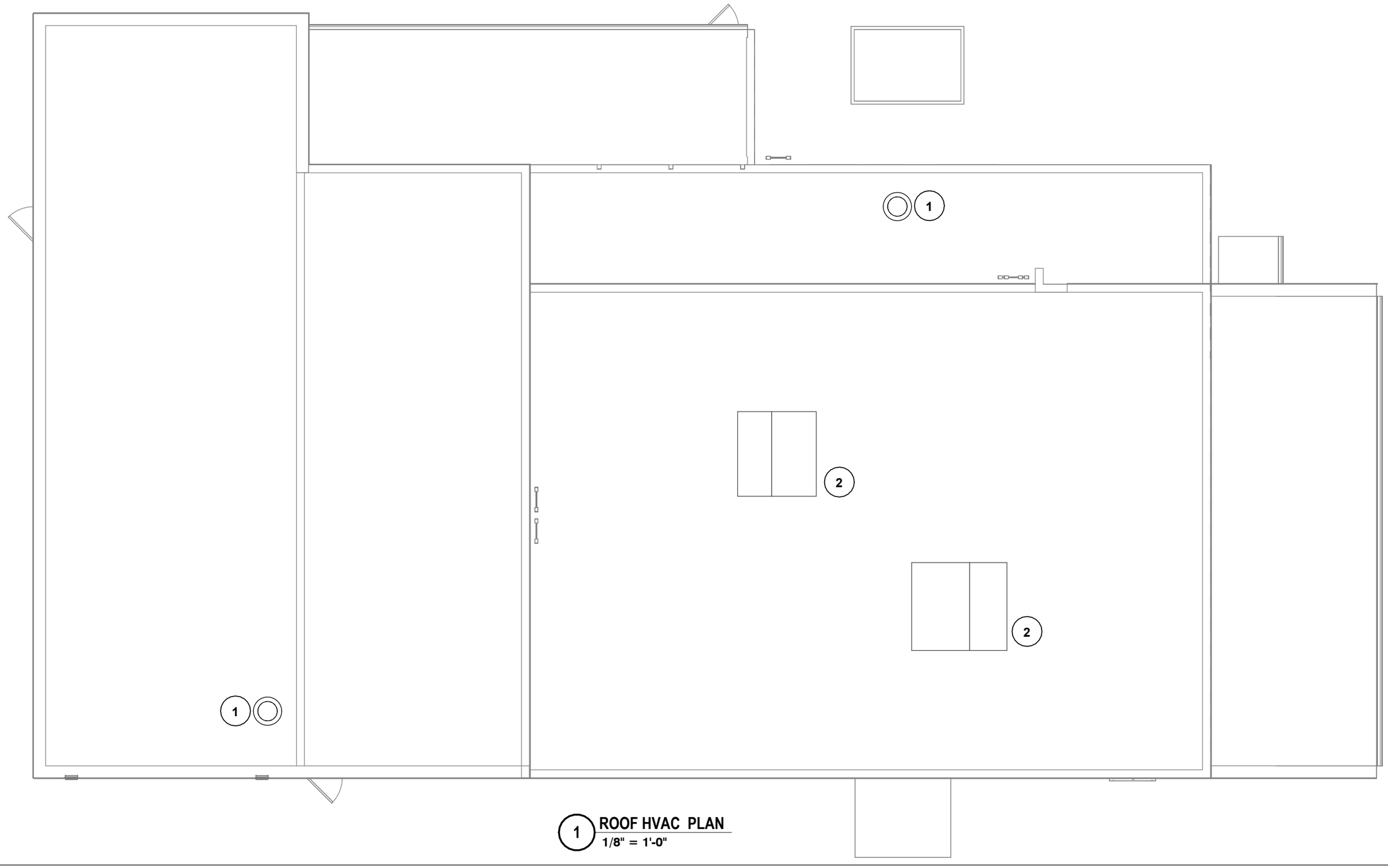
A. The contractor shall exercise care in the storage and handling of the STU components prior to and during installation. Any repair or replacement costs associated with events occurring after delivery is accepted and unloading has commenced shall be born by the contractor.

3.2 INSTALLATION

A. The STU shall be installed in accordance with the manufacturer's recommendations and related sections of the contract documents. The manufacturer shall provide the contractor installation instructions and offer on-site guidance during the important stages of the installation as identified by the manufacturer at no additional expense. A minimum of 72 hours notice shall be provided to the manufacturer prior to their performance of the services included under this subsection.

B. The contractor shall fill all voids associated with lifting provisions provided by the manufacturer. These voids shall be filled with non-shrinking grout providing a finished surface consistent with adjacent surfaces. The contractor shall trim all protruding lifting provisions flush with the adjacent concrete surface in a manner which leaves no sharp points or edges.

END OF SECTION



1 ROOF HVAC PLAN
1/8" = 1'-0"

DRAWN BY:	QDW
CHECKED BY:	KEG
DATE:	05/19/2025
SCALE:	1/8" = 1'-0"

REVISION:

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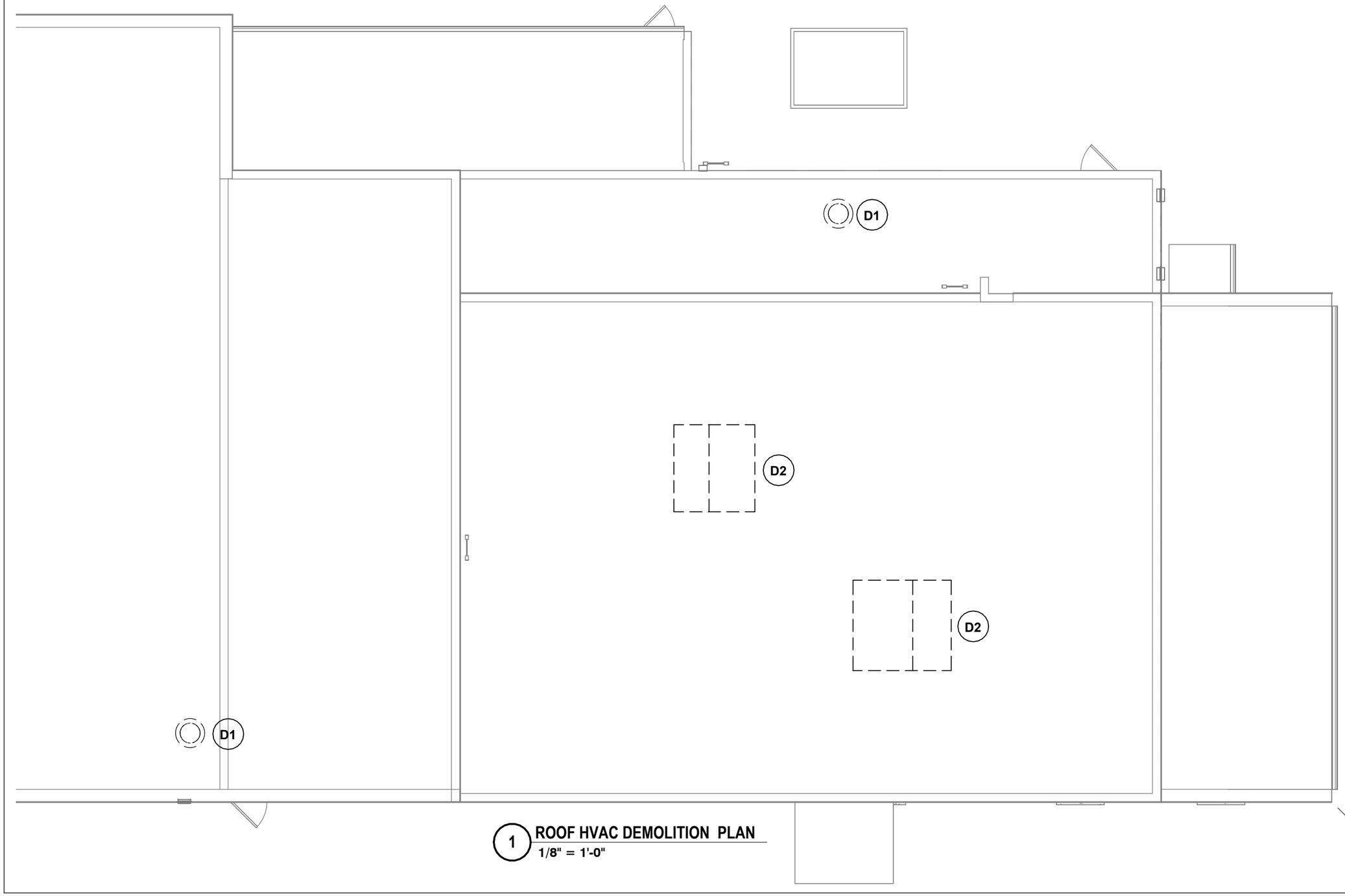
ROOF DUCT WORK PLAN REVISIONS
2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS
CORNING PAINTED POST AREA SCHOOL DISTRICT
165 CHARLES STREET, PAINTED POST, NY 14870

AD1-H1

PROJECT NO: 2649.154



1 ROOF HVAC DEMOLITION PLAN
1/8" = 1'-0"

DRAWN BY:	QDW
CHECKED BY:	KEG
DATE:	05/19/2025
SCALE:	1/8" = 1'-0"

REVISION:

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ROOF HVAC DEMO PLAN REVISIONS

2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS
CORNING PAINTED POST AREA SCHOOL DISTRICT

165 CHARLES STREET, PAINTED POST, NY 14870

AD1-H2

PROJECT NO: 2649.154

1 **ROOF HVAC PLAN**
1/8" = 1'-0"

DRAWN BY:	QDW
CHECKED BY:	KEG
DATE:	05/19/2025
SCALE:	1/8" = 1'-0"

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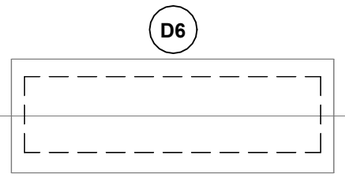
ROOF HVAC DUCT WORK PLAN - AREA B REVISIONS
2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS
CORNING-PAINTED POST AREA SCHOOL DISTRICT
165 CHARLES STREET, PAINTED POST, NY, 14870

AD1-H3

PROJECT NO: 2649.154



1 **ROOF HVAC DEMOLITION PLAN - AREA B**
1/8" = 1'-0"

DRAWN BY:	QDW
CHECKED BY:	KEG
DATE:	05/19/2025
SCALE:	1/8" = 1'-0"

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ROOF HVAC DEMO PLAN - AREA B REVISIONS
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CORNING-PAINTED POST AREA SCHOOL DISTRICT
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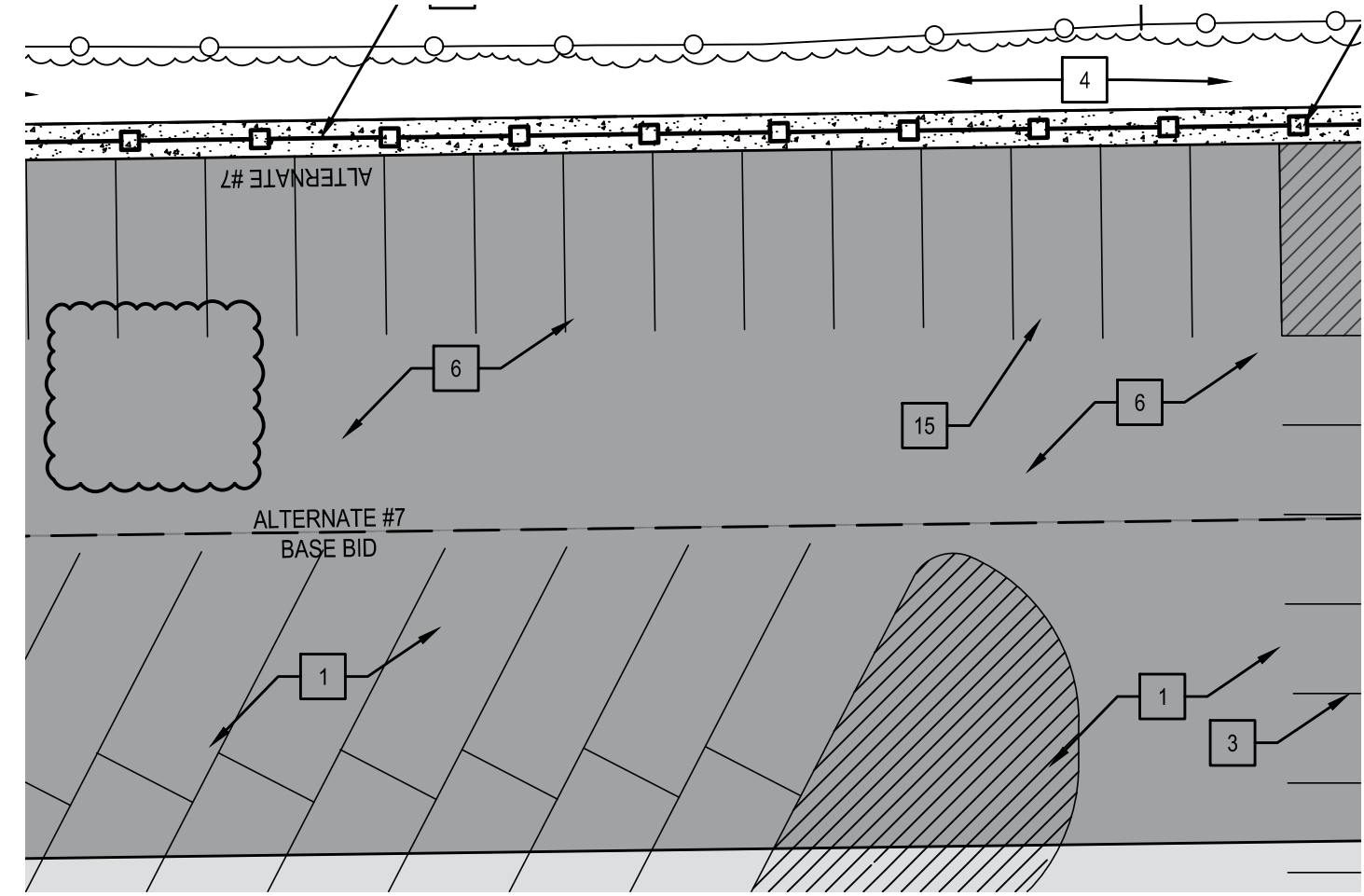
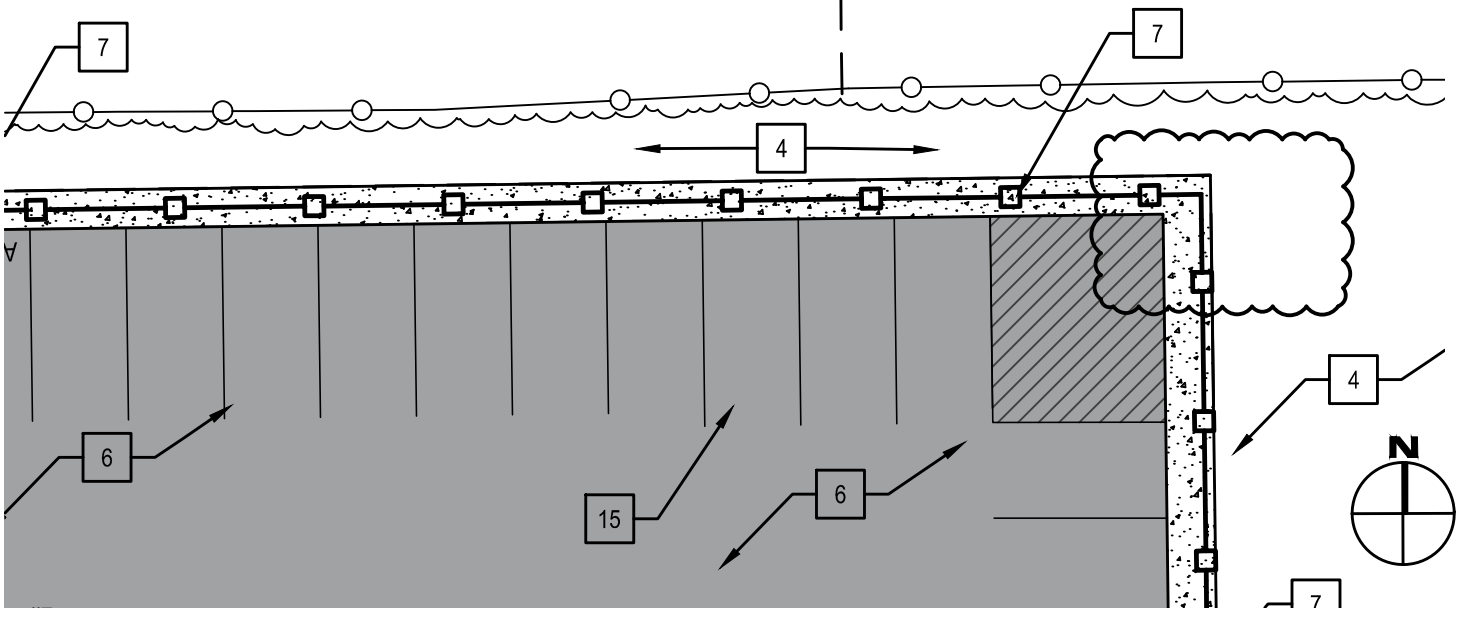
AD1-H4

PROJECT NO: 2649.154





REVISION IMPROVEMENT NOTE 11

2025 BUS GARAGE, ADMIN & STADIUM ALTERATIONS

CORNING PAINTED POST ASD

165 CHARLES STREET, PAINTED POST, NY 14870

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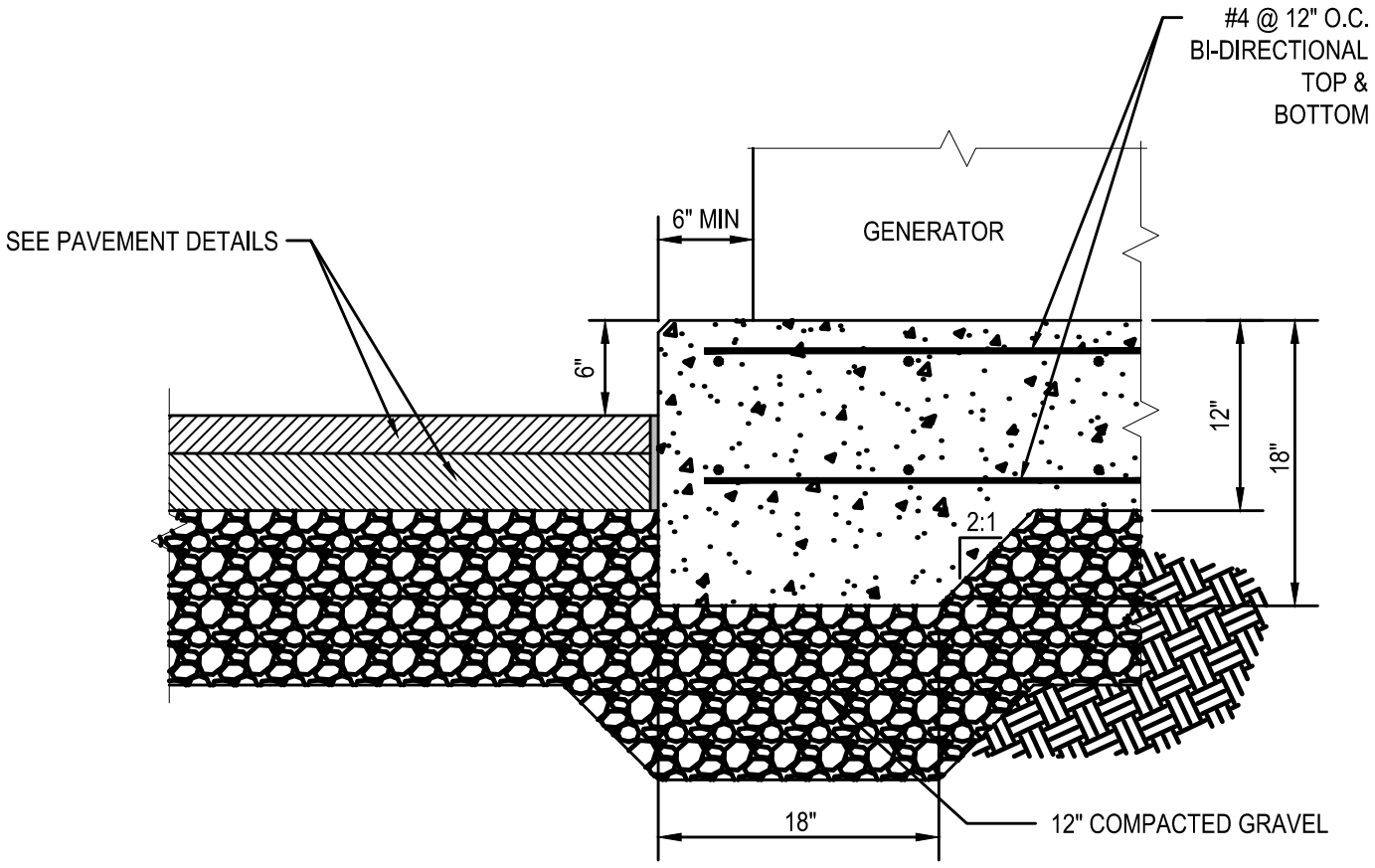
AD-L1

DATE: 12/12/25

PROJECT NO: 2649.154



13 CONCRETE GENERATOR PAD DETAIL

SCALE: N.T.S.

GENERATOR PAD DETAIL

2025 BUS GARAGE, ADMIN & STADIUM ALTERATIONS

CORNING PAINTED POST ASD

165 CHARLES STREET, PAINTED POST, NY 14870

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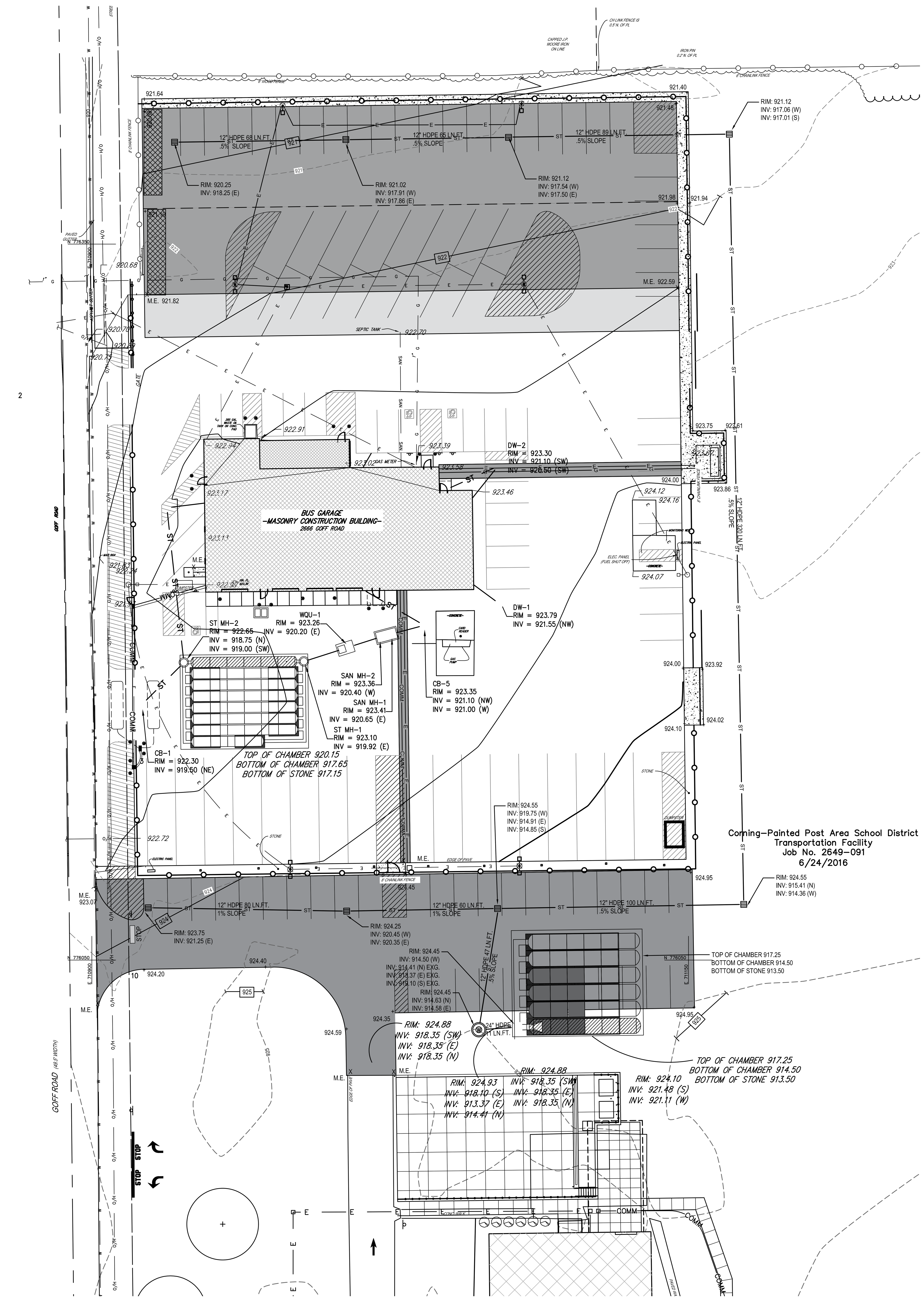
AD1-L2

DATE: 12/12/25

PROJECT NO: 2649.154



1 SITE GRADING PLAN
SCALE: 1" = 20'

SCALE IN FEET
0 10 20 40 60
SCALE: 1" = 20'

IMPROVEMENTS LEGEND:
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- 1½" OVERLAY ASPHALT
- GRAVEL SURFACING
- CONCRETE SIDEWALK

DRAWN BY:	DR
CHECKED BY:	LG
DATE:	5/19/25
PHASE:	CD

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#	DATE:	DESCRIPTION OF REVISION:
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2.	12/12/2025	BID ADDENDUM #1

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SITE GRADING PLAN

2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS

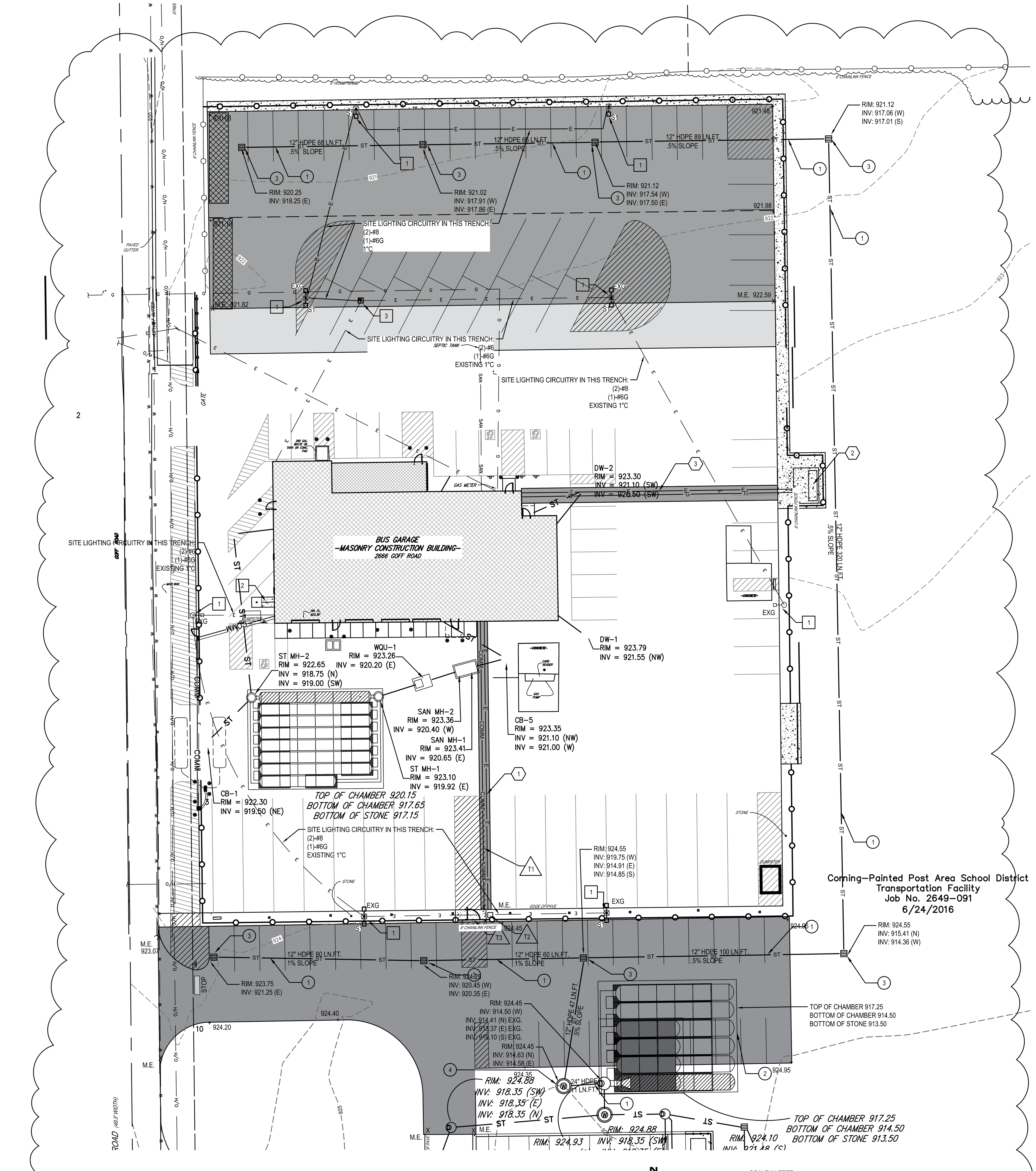
CORNING-PAINTED POST AREA SCHOOL DISTRICT

165 CHARLES STREET, PAINTED POST, NY 14870

SED NO.: BUS GARAGE - 57-10-00-01-5-015-010; ADMIN. BUILDING - 57-10-00-01-1-001-013; STADIUM - 57-10-00-01-7-026-010

BG-L3.1

PROJECT NO: 2649.154



1 SITE UTILITY PLAN
SCALE: 1" = 20'

SCALE IN FEET
0 10 20 40 60
SCALE: 1" = 20'

SITE UTILITY PLAN NOTES:

1. PROVIDE TRENCHING STUB UP AND PUNCH THROUGH CONCRETE MASONRY UNIT (CMU) FOR UNDERGROUND ELECTRIC. SEE SITE ELECTRICAL UTILITY DRAWINGS FOR FURTHER INFORMATION. SEE DETAIL 3/BG-L5.2.
2. PROVIDE GENERATOR PAD. COORDINATE ALL FINAL LOCATIONS OF STUB UPS FOR CIRCUITRY WITH MANUFACTURER PRIOR TO POUR AND INSTALLATION. SEE DETAIL 13/BG-L5.1.
3. PROVIDE 3" GASLINE, DIRT LEG AND SHUT OFF VALVE. SEE DETAIL 2/BG-L5.2.

SITE TECHNOLOGY NOTES:

1. 2" COMMUNICATIONS CONDUIT PER SPECIFICATIONS & DETAILS.
2. COMMUNICATIONS PULL BOX PER SPECIFICATIONS AND DETAILS.
3. EXTERIOR MAN-GATE TO RECEIVE ACCESS CONTROL DEVICES (CARD READER, ELECTRONIC LOCK, DOOR POSITION SWITCH) PER SPECIFICATIONS & DETAILS. REQUIRES CONDUIT TO NEAREST PULL BOX PER SPECIFICATIONS & DETAILS.

SITE ELECTRICAL NOTES:

1. PROVIDE NEW CIRCUITRY TO SITE LIGHTING AS SHOWN ON PLAN. EXISTING POLES TO BE MODIFIED TO MOUNT NEW FIXTURES 180 DEGREES FROM EXISTING. EXISTING FIXTURES TO REMAIN AND LABELED "EXG". EXISTING POLES AND POLE BASES ARE TO BE RE-USED. SEE ASSOCIATED SCHEDULE ON THIS SHEET FOR MORE INFORMATION. CIRCUIT ORIGINATES FROM PANEL C.
2. ALL ASSOCIATED SCOPE IN THIS NOTE IS ALTERNATE #6. PROVIDE FLAG POLE UPLIGHTING IN THIS LOCATION. CIRCUIT FROM PANEL C USING (2)-12, (1)-12G, IN 1"C. PROVIDE 20A/1P BREAKER. SEE DETAIL 6/L5.2 - "FLAG POLE LIGHTING DETAIL" FOR MORE INFORMATION.
3. PROVIDE TRAFFIC RATED PULL-BOX IN THIS LOCATION. SEE DETAIL 1/L5.2 FOR MORE INFORMATION.

UTILITY LEGEND:

—E— ELECTRICAL LINE
—G— GAS LINE

LUMINARE SCHEDULE

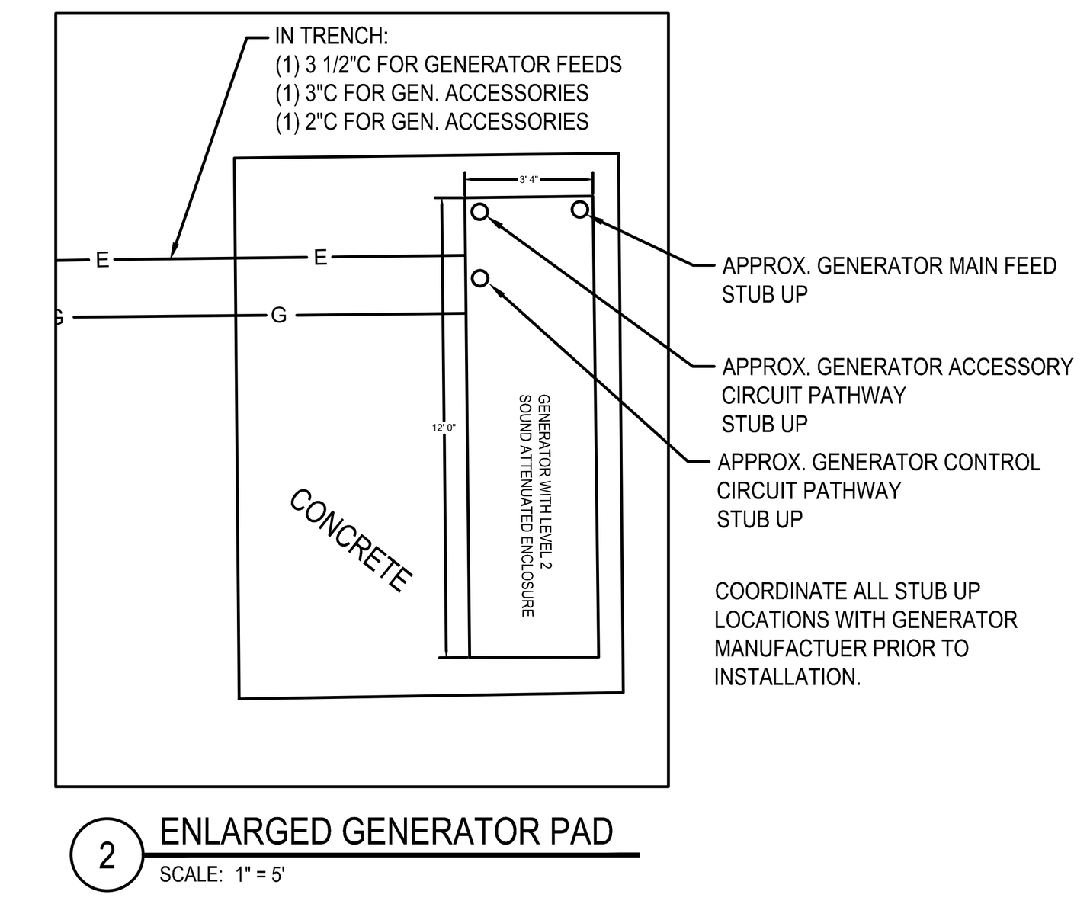
SYMBOL	QTY.	LABEL	DESCRIPTION	POLE	MOUNTING HEIGHT	NOTES
	2	S1	FIXTURE: #OPF-M-A13-840-T4W-AR1-120-PCB	ULS #RSP-25-4-11-AB-D1-BK	28FT	PROVIDE 0-10V DIMMING
	4	S1 / EXG	FIXTURE: #OPF-M-A13-840-T4W-AR1-120-PCB / EXG	EXISTING	31FT	PROVIDE 0-10V DIMMING

Calculation Summary

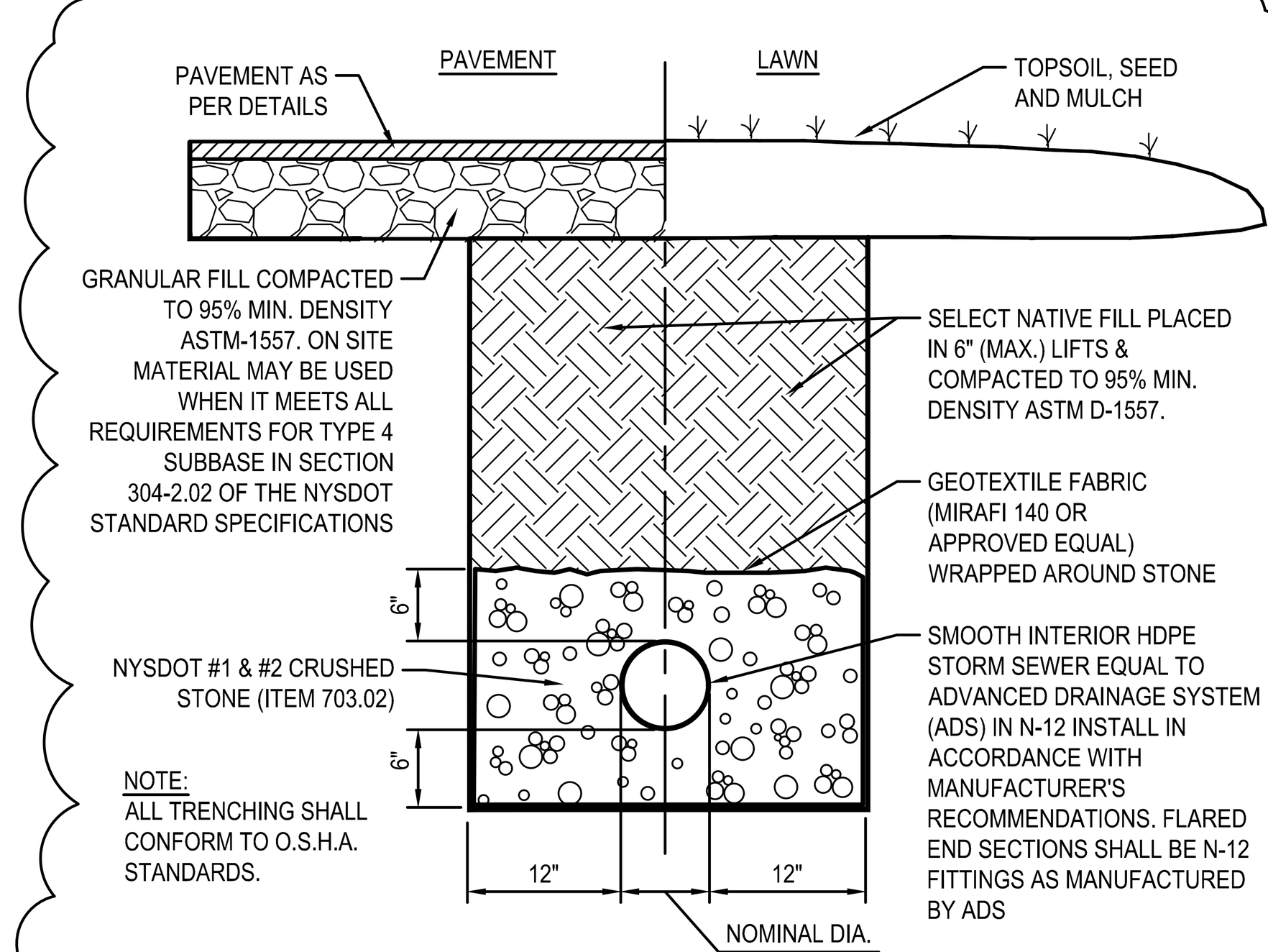
Label	CalcType	Units	Avg	Max	Min
Perimeter	Illuminance	Fc	0.01	0.5	0.0
Surface	Illuminance	Fc	2.33	8.9	0.1

SITE STORM WATER UTILITY PLAN NOTES: ALTERNATE 7

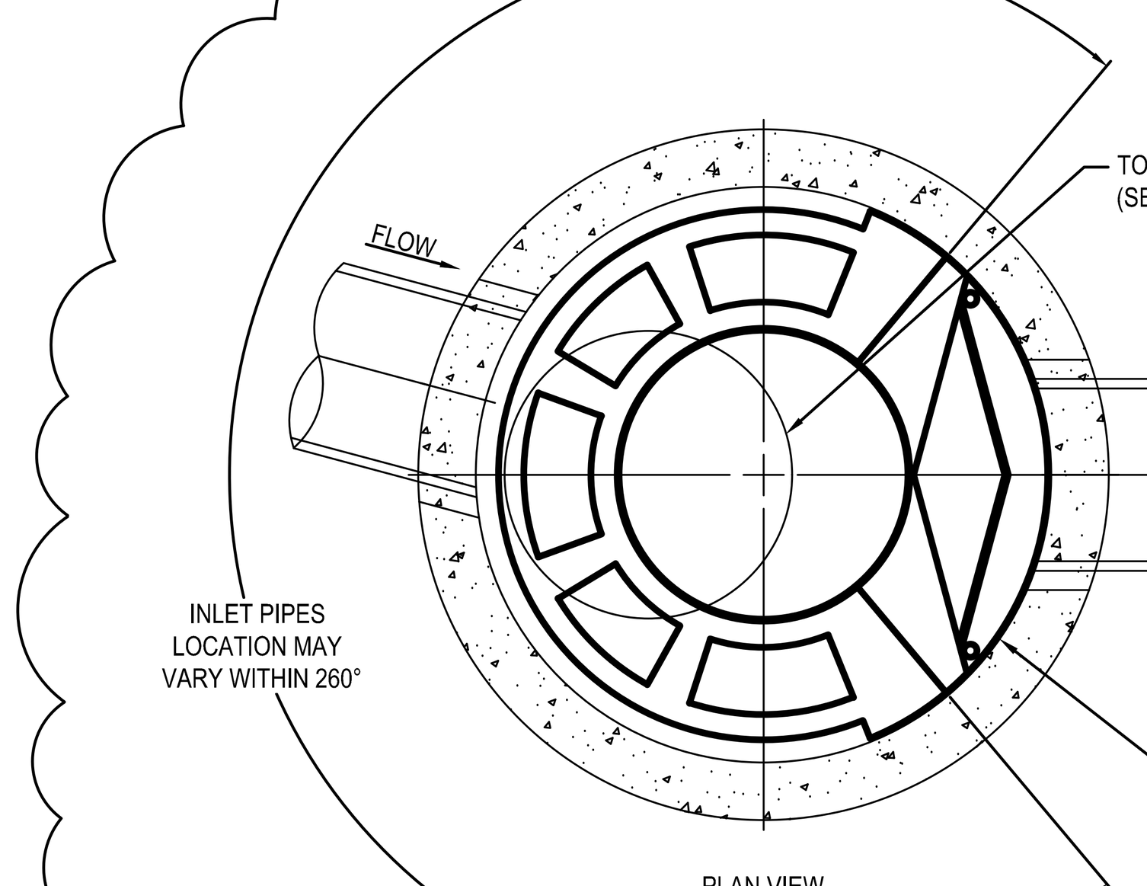
1. ALTERNATE 7: PROVIDE HDPE STORM PIPE AT SIZES & INVERTS INDICATED ON PLAN, SEE DETAIL 3/BG-L4.1.
2. ALTERNATE 7: PROVIDE UNDERGROUND STORM INFILTRATION OR DETENTION CHAMBER SYSTEM, SEE BG-L5.3.
3. ALTERNATE 7: PROVIDE MINIMUM 24"x24" PRECAST CONCRETE CATCH BASIN, SEE DETAIL 4/BG-L5.2.
4. ALTERNATE 7: PROVIDE WATER QUALITY UNIT, SEE DETAIL 4/BG-L4.1.

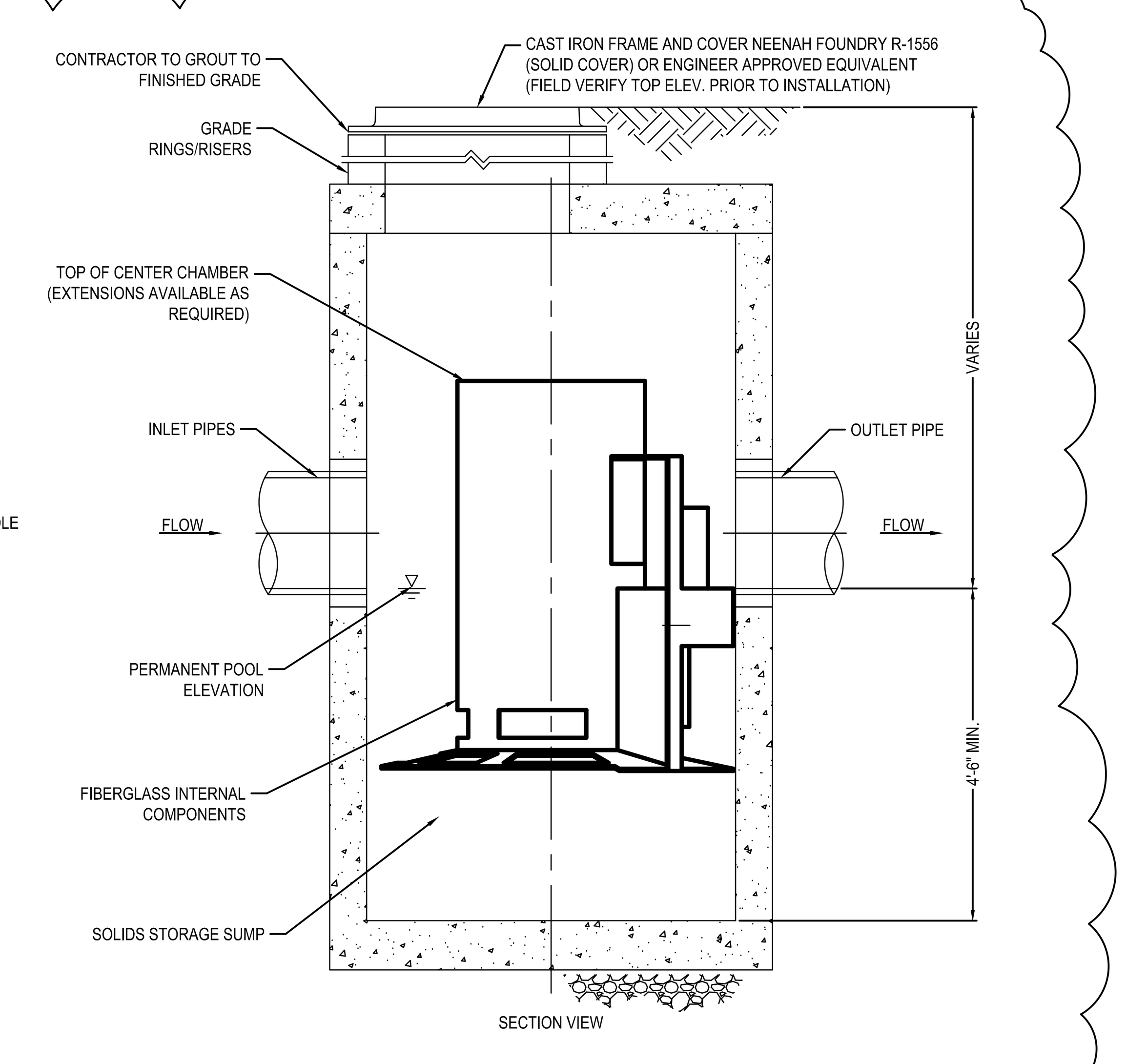


2 ENLARGED GENERATOR PAD
SCALE: 1" = 5'



3 TYPICAL STORM TRENCH DETAIL
SCALE: N.T.S.





TREATMENT SYSTEM SPECIFICATIONS	WQU-1
CASCADE SEPARATOR MODEL	CS-5
MINIMUM TREATMENT FLOW RATE	1.10 CFS
PEAK HYDRAULIC FLOW RATE	8.87 CFS
RIM ELEVATION	924.45
INLET PIPE DIAMETER	12"
INLET PIPE INVERT	914.63
OUTLET PIPE DIAMETER	24"
OUTLET PIPE INVERT	941.58
SUMP ELEVATION	937.08
TYPE OF COVER	SOLID

NOTE: CONTRACTOR TO SUBMIT APPROVED EQUAL UNIT TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.

4 WATER QUALITY UNIT - CONTECH CASCADE SEPARATOR
SCALE: N.T.S.

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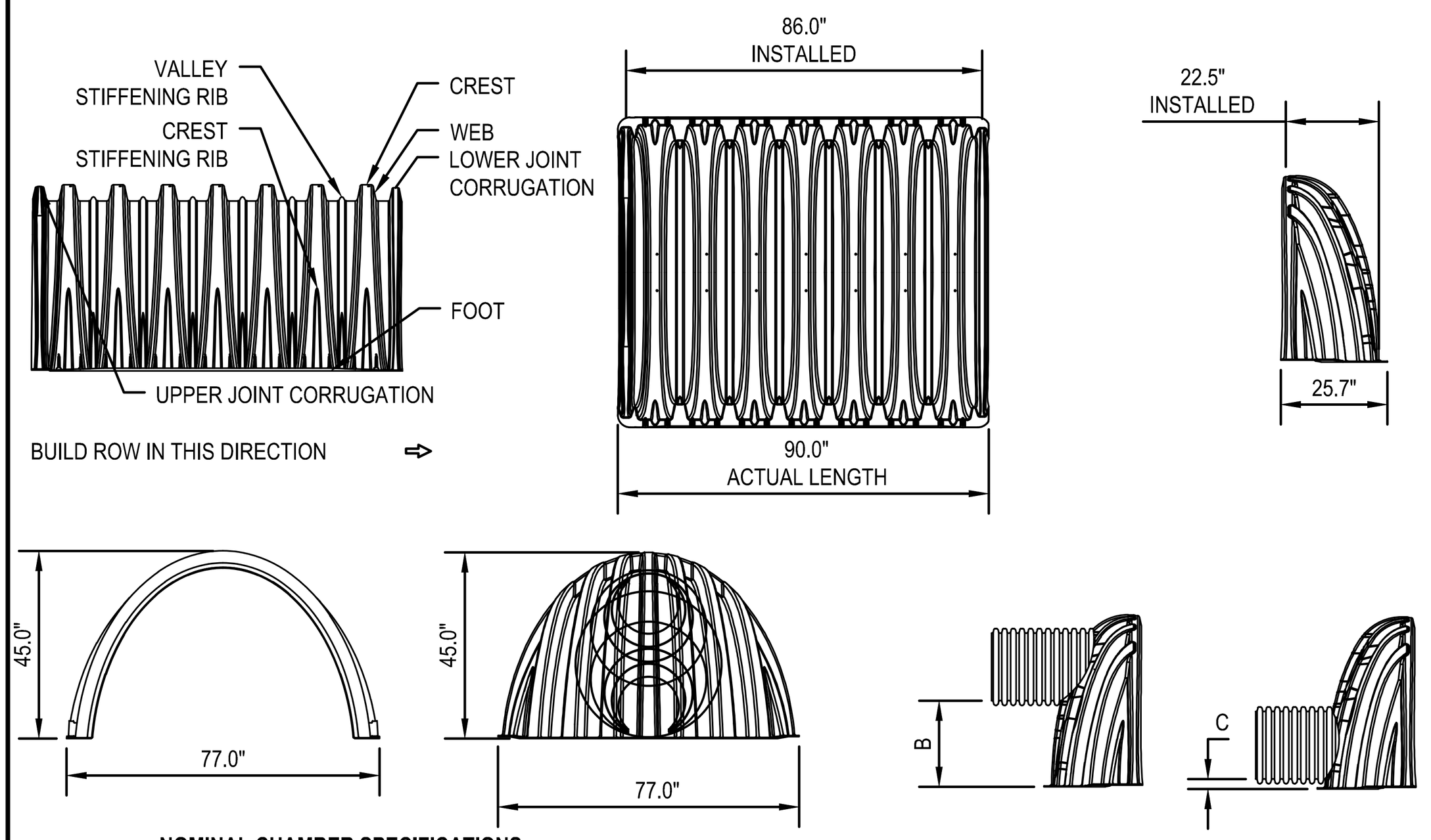
SITE UTILITY PLAN
2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS
CORNING-PAINTED POST AREA SCHOOL DISTRICT
165 CHARLES STREET, PAINTED POST, NY 14870

SED NO.: BUS GARAGE - 57-10-00-01-5-015-010; ADMIN. BUILDING - 57-10-00-01-001-013; STADIUM - 57-10-00-01-7-026-010

AD1-L4.1

PROJECT NO: 2649.154

MC-3500 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	178.9 CUBIC FEET	(5.06 m³)
WEIGHT	135.0 lbs.	(61.2 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 22.5"	(1956 mm X 1143 mm X 571 mm)
CHAMBER STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	46.0 CUBIC FEET	(1.30 m³)
WEIGHT	50.0 lbs.	(22.7 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm)BELOW, AND BETWEEN CHAMBERS, 12" (305mm) STO0NE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

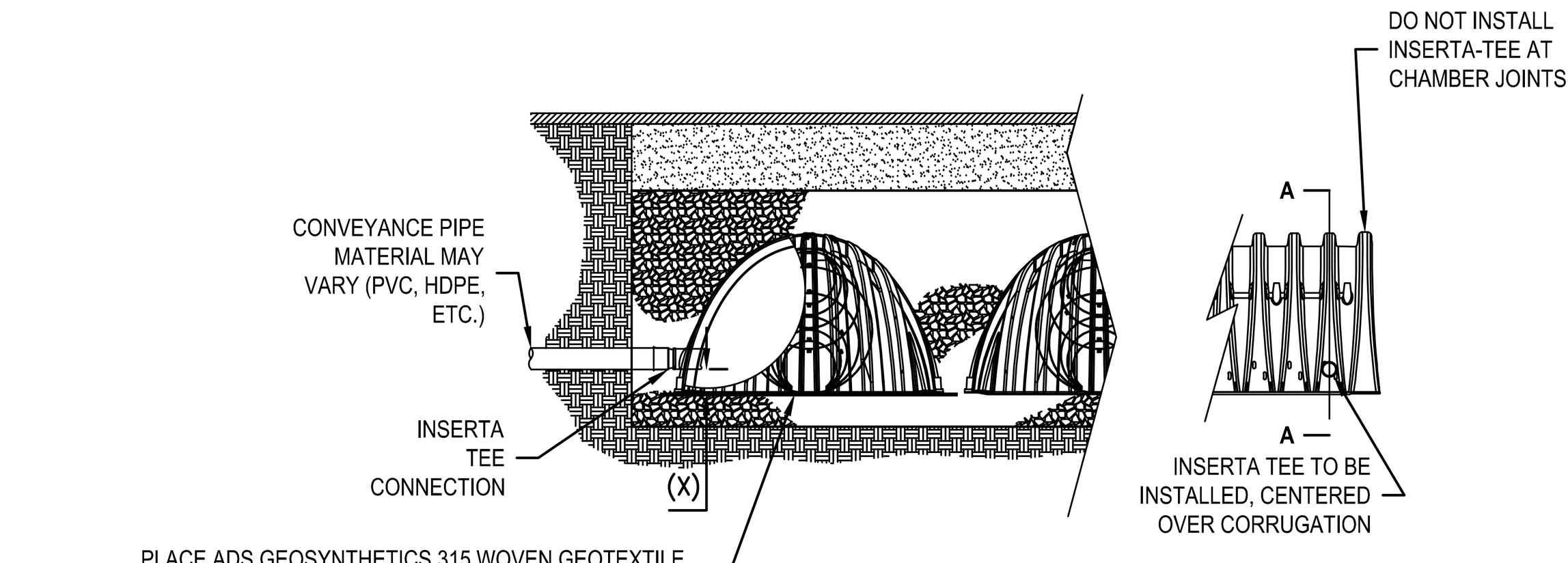
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	B	C
MC3500IEPE06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPE06B		---	0.66" (17 mm)
MC3500IEPE08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPE08B		---	0.81" (21 mm)
MC3500IEPE10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPE10B		---	0.93" (24 mm)
MC3500IEPE12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPE12B		---	1.35" (34 mm)
MC3500IEPE15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPE15B		---	1.50" (38 mm)
MC3500IEPE18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPE18BC		---	1.77" (45 mm)
MC3500IEPE24TC	24" (600 mm)	14.48" (368mm)	---
MC3500IEPP24BC		---	2.06" (52mm)
MC3500IEPP30BC	30" (750mm)	---	

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECORED INVERTS AREA AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS.
CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250mm)
THE INVERT LOCATION IN

INSERTA TEE DETAIL
NTS



NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500, OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET THE REQUIREMENT OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.

   STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   * STONESHOOTER LOCATED OFF THE CHAMBER BED.
   * BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   * BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm) MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

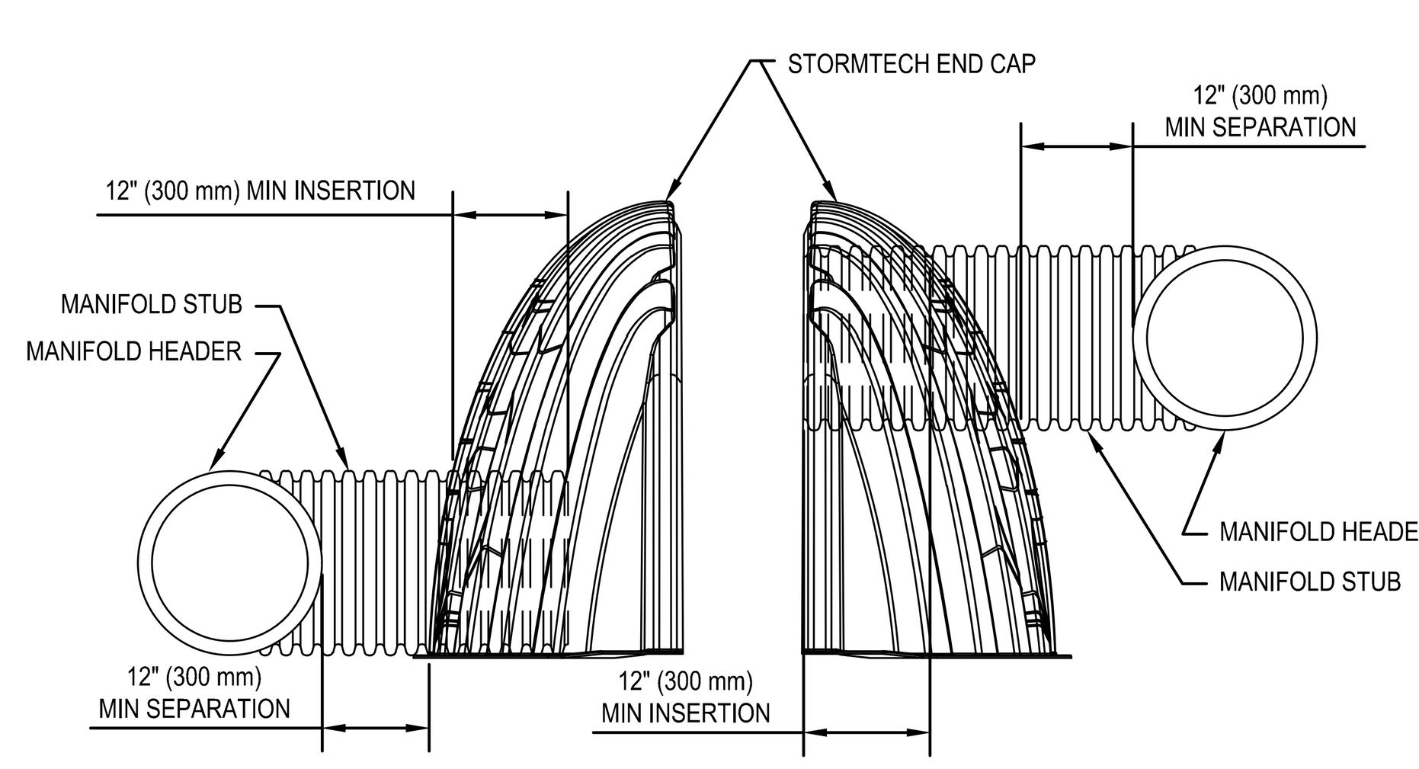
NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
3. FULL 36" OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

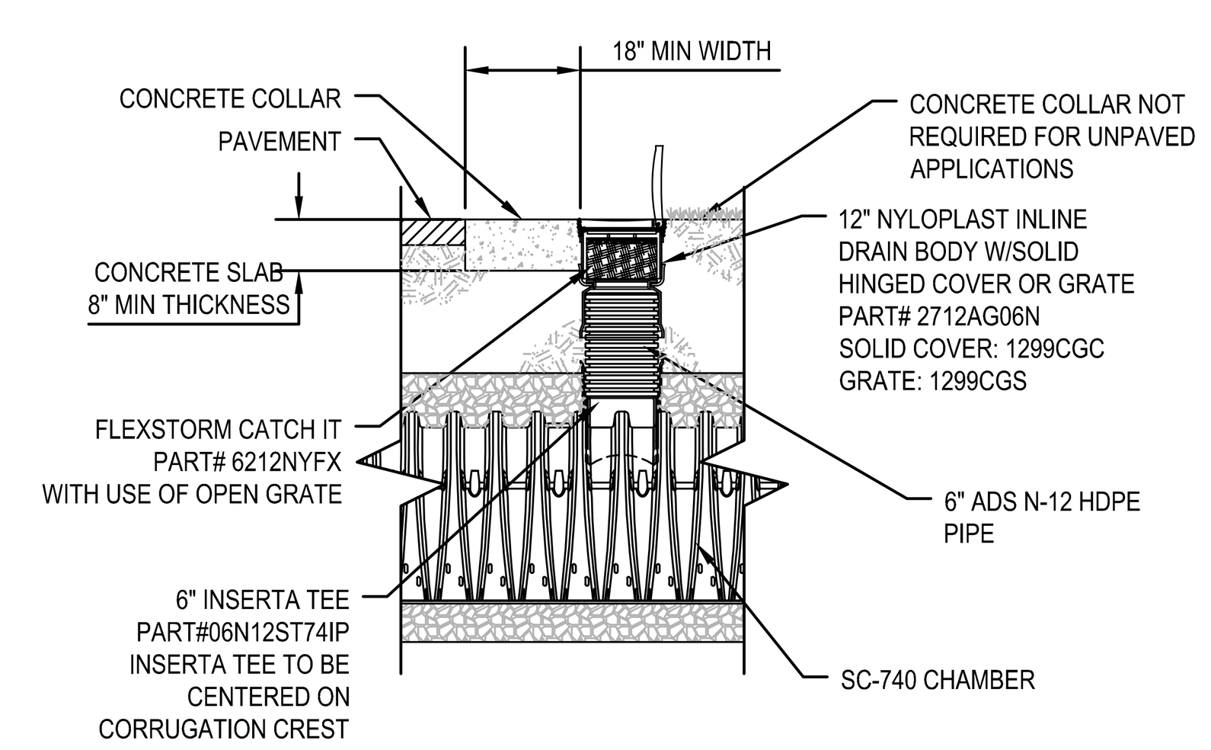
CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

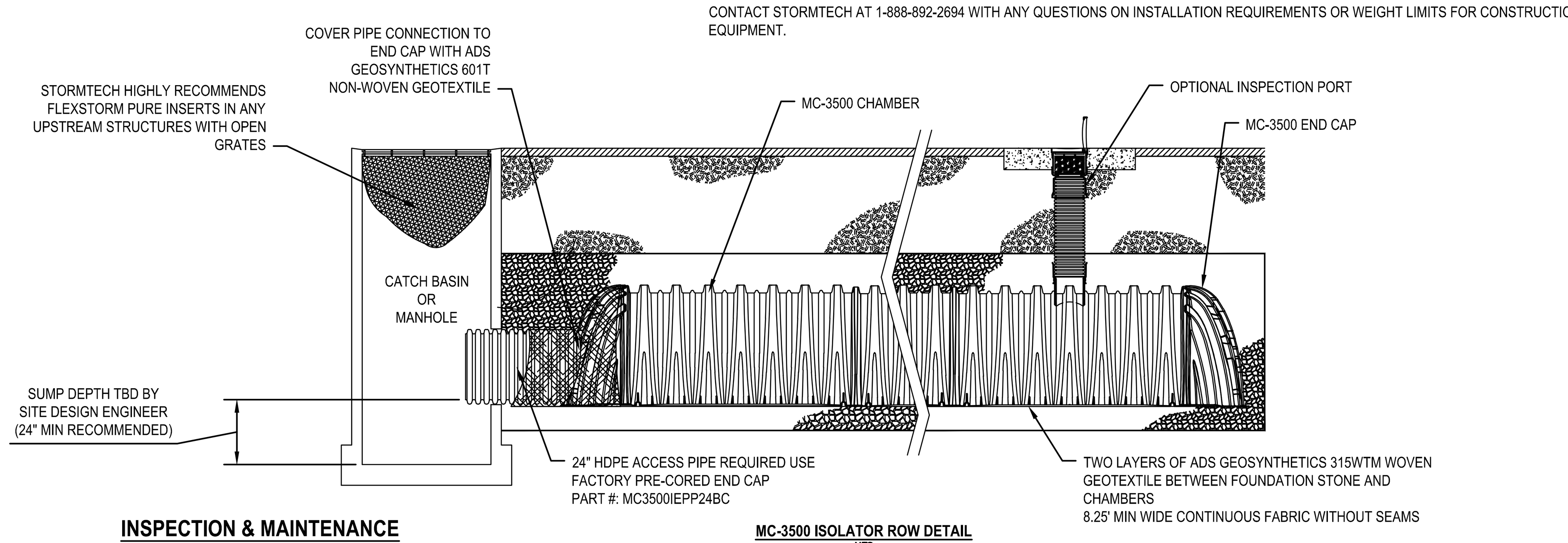
MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-3500 6" INSPECTION PORT DETAIL
NTS





MC-3500 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

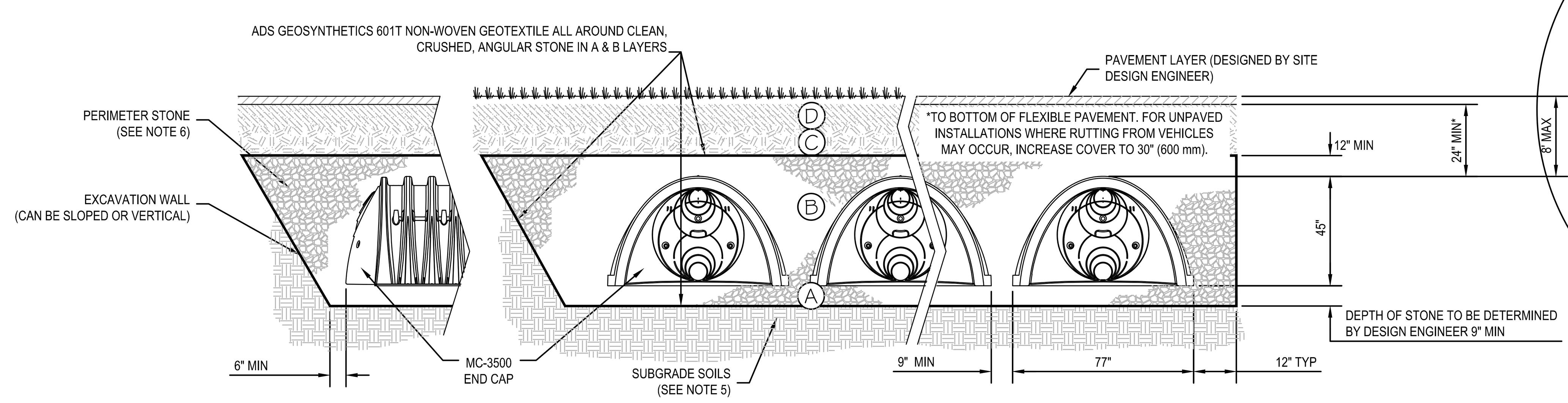
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 [1] A-1, A-2-4, A-3 OR AASHTO M43 [1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SUBROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50mm)	AASHTO M43 [1] 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50mm)	AASHTO M43 [1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. [2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

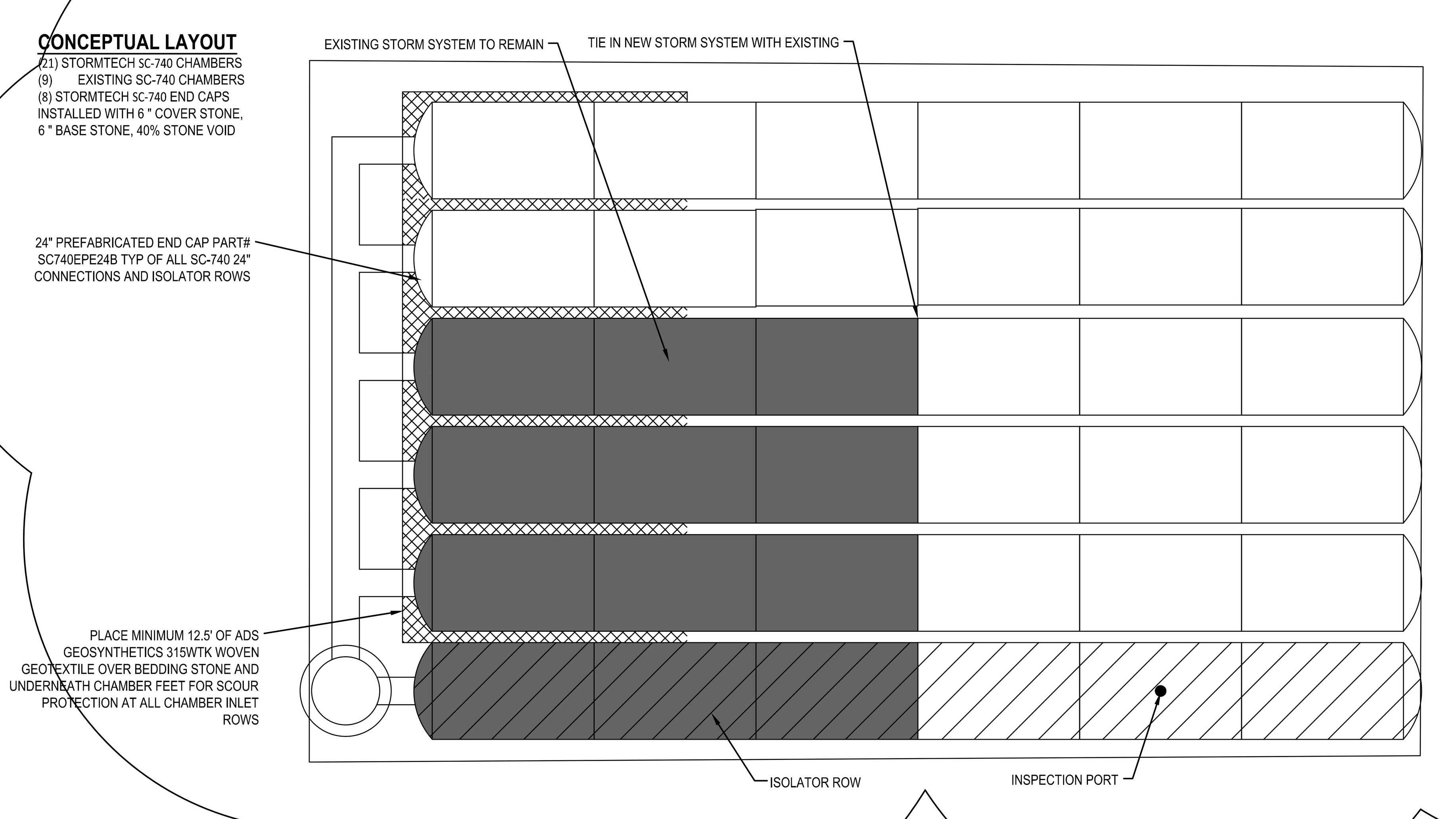


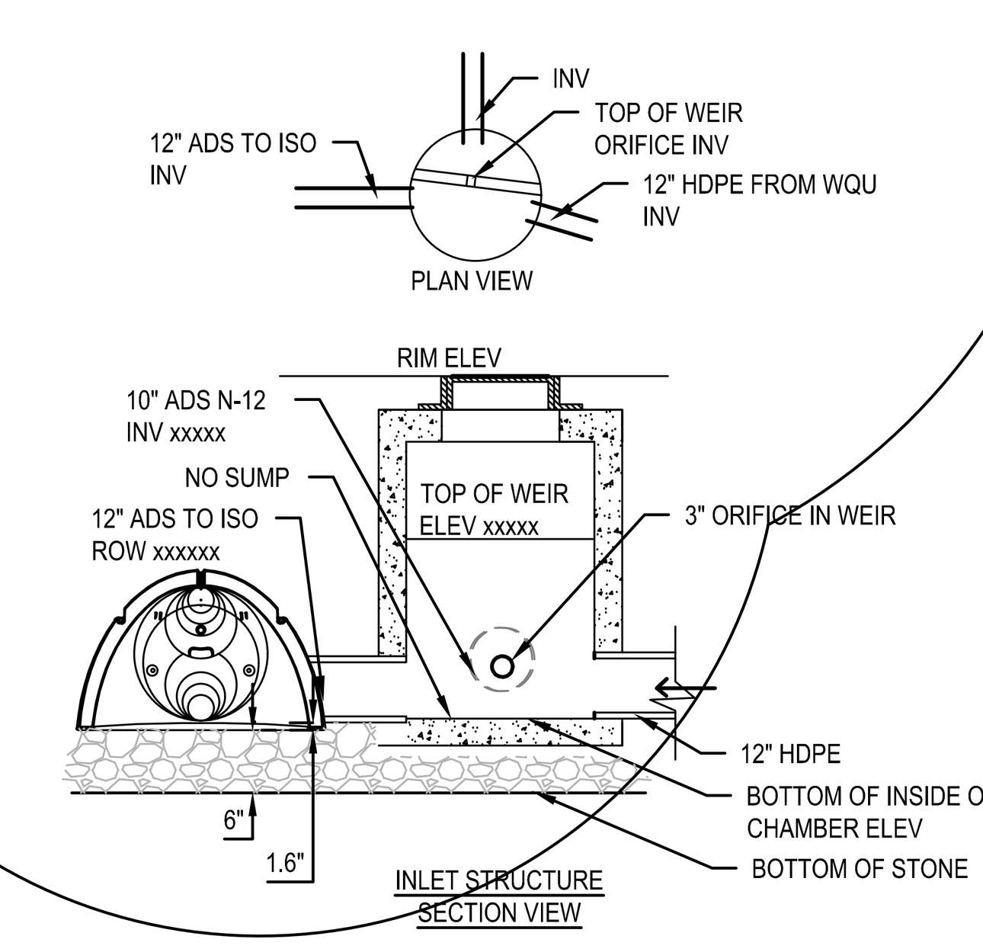
NOTES:

1. MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
5. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
7. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

CONCEPTUAL LAYOUT

(11) STORMTECH SC-740 CHAMBERS
(9) EXISTING SC-740 CHAMBERS
(8) STORMTECH SC-740 END CAPS INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 40% STONE VOID





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#	DATE:	DESCRIPTION OF REVISION:
1.	11/13/2025	ISSUED FOR BID
2.	12/12/2025	BID ADDENDUM #1

"IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S, ARCHITECT'S OR SURVEYOR'S SEAL."

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SITE DETAILS

2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS

CORNING-PAINTED POST AREA SCHOOL DISTRICT

165 CHARLES STREET, PAINTED POST, NY 14870

SED NO.: BUS GARAGE - 57-10-00-01-5-015-010; ADMIN. BUILDING - 57-10-00-01-1-001-013; STADIUM - 57-10-00-01-7-026-010

AD1-L5.3

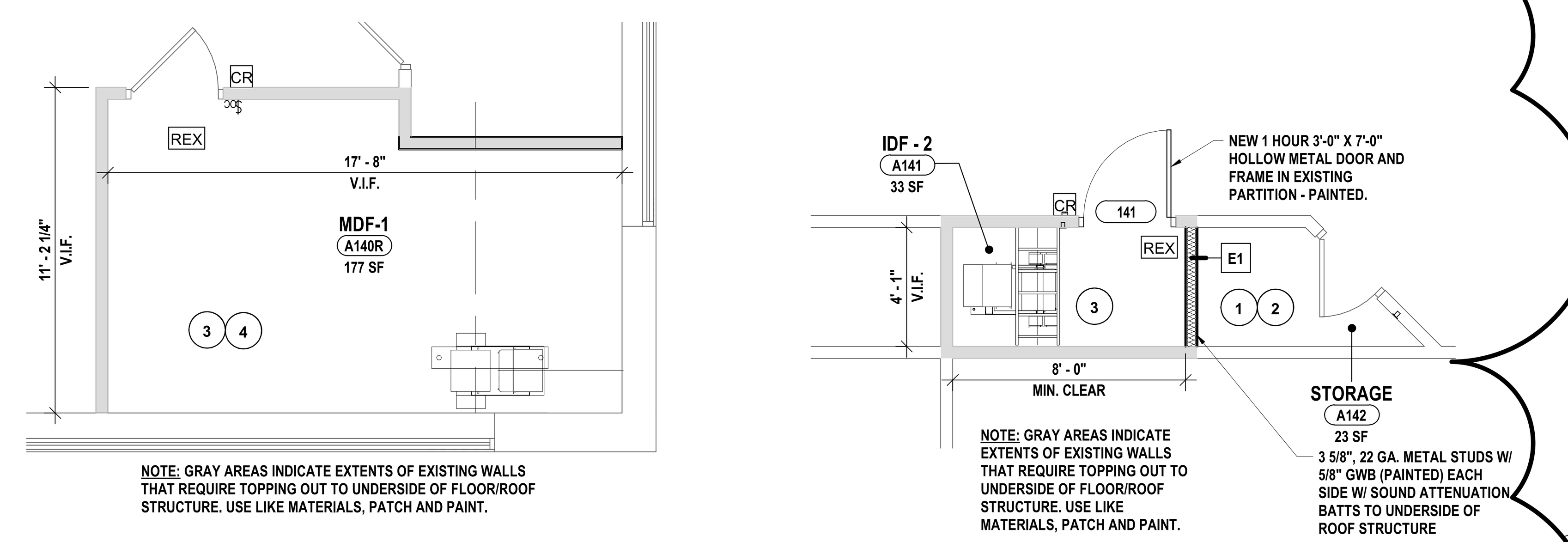
PROJECT NO: 2649.154

ENLARGED PLAN DRAWING NOTES: ALT. #2 & #3

1 EXISTING FLOORING TO REMAIN.
2 EXISTING ACT CEILING TO REMAIN. MOVE EXISTING LIGHTING PER ELECTRICAL PLAN AND TERMINATE CEILING AT NEW PARTITION.
3 REMOVE EXISTING CARPET AND INSTALL NEW ANT-STATIC CARPET TILE AND VINYL COVE BASE.
4 REMOVE EXISTING ACT CEILING IN ITS ENTIRETY. INSTALL NEW LIGHT FIXTURES PER ELECTRICAL PLANS.

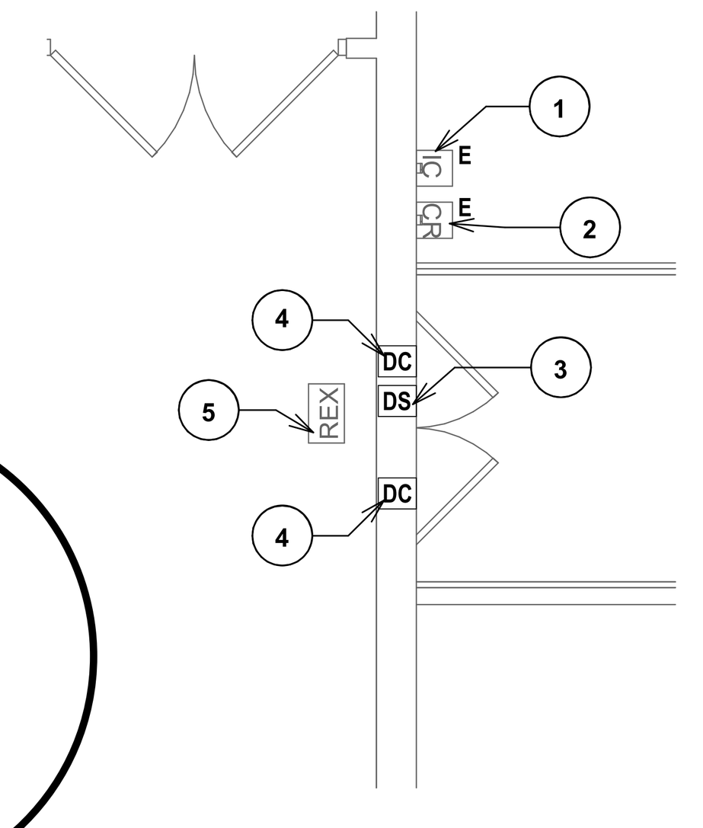
TECHNOLOGY CONSTRUCTION NOTES:

1 EXISTING INTERCOM TO REMAIN. ADJUST LOCATION AS NEEDED WITH NEW DOOR OPENING.
2 EXISTING CARD READER TO REMAIN. ADJUST LOCATION AS NEEDED WITH NEW DOOR OPENING.
3 EXISTING ELECTRIFIED LOCKING HARDWARE TO BE REMOVED. RETAIN SIGNAL CABLING FOR REUSE WITH NEW HARDWARE.
4 EXISTING DOOR CONTACT TO BE REMOVED. RETAIN SIGNAL CABLING FOR REUSE WITH NEW DOOR CONTACT.
5 EXISTING REQUEST TO EXIT TO REMAIN. ADJUST AS NEEDED.



6 ENLARGED MDF-1 PLAN (ALT. #2)
1/4" = 1'-0"

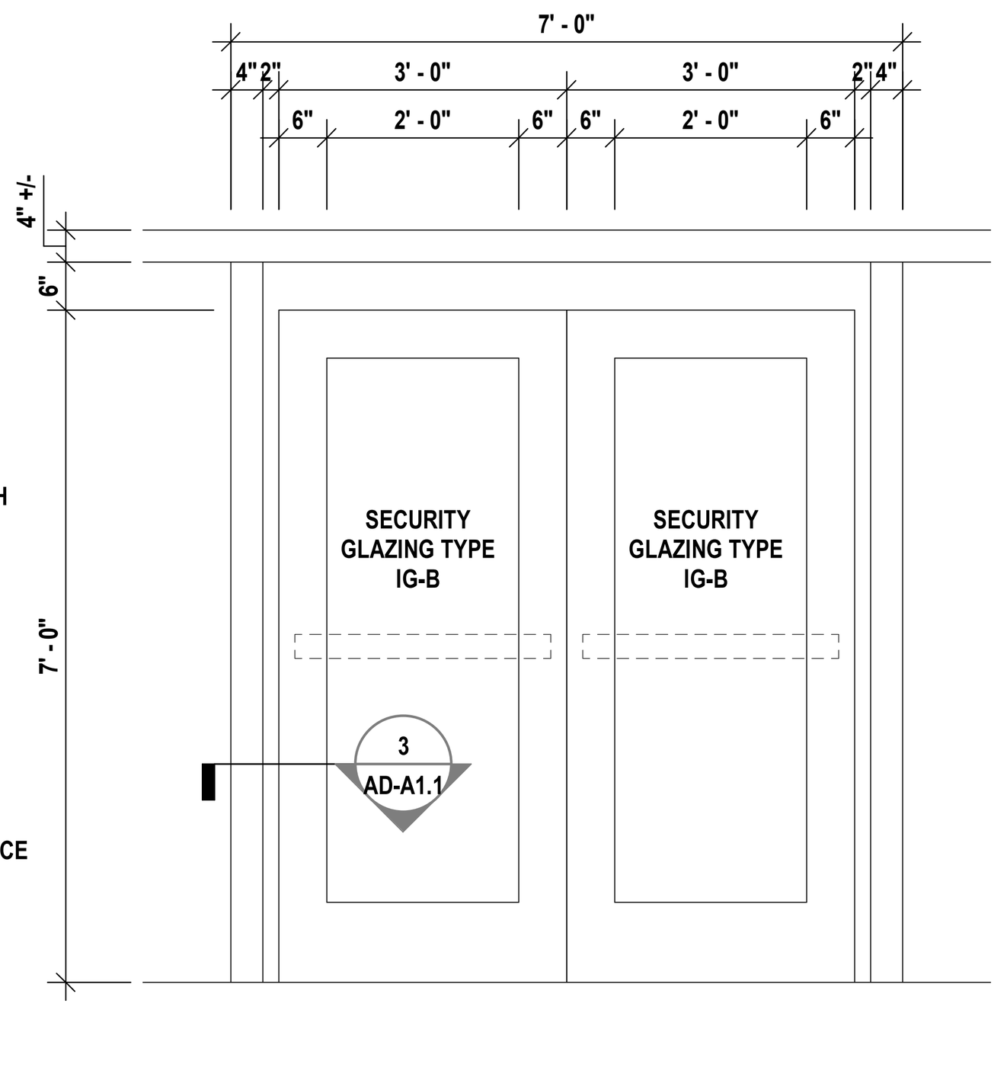
5 ENLARGED IDF-2 PLAN (ALT #3)
1/4" = 1'-0"



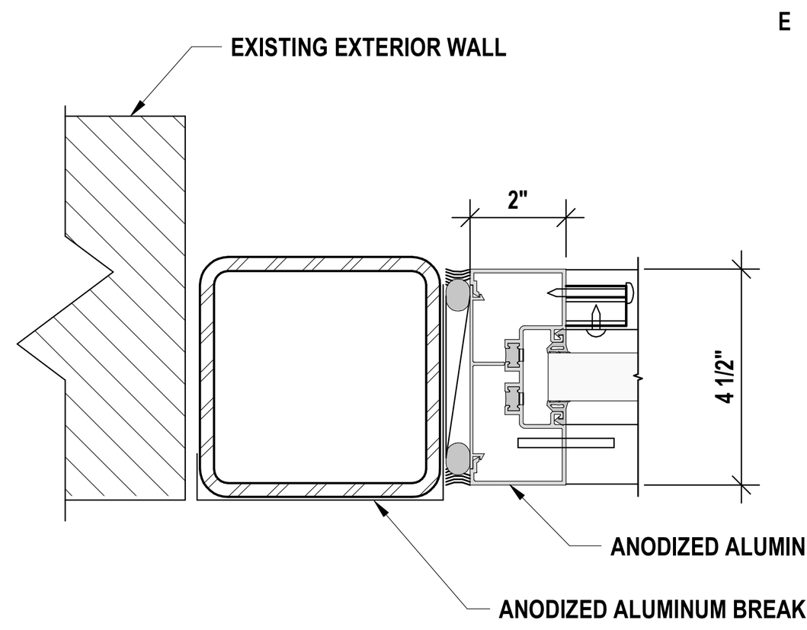
4 TECHNOLOGY PLAN DOOR 100
1/4" = 1'-0"

DOOR HARDWARE

2 EA CONT. HINGE 112HD EPT 628 IVE
2 EA POWER TRANSFER EPT10 689 VON
1 EA REMOVABLE MULLION KR4023 SP28 FAL
1 EA ELEC PANIC HARDWARE
CD-RX-25-R-EO-CON 626 FAL
1 EA ELEC PANIC HARDWARE
LMRX-25-R-NL-OP 626 FAL
1 EA RIM CYLINDER 20-057 ICX 626 SCH
2 EA MORTISE CYLINDER 26-091 ICX X K510-730 36-083 626 SCH
3 EA FSIC CORE 23-030 626 SCH
2 EA 90 DEG OFFSET PULL 8190EZHD 12" STD 630-316 IVE
2 EA OH STOP 100S 630 GLY
2 EA SURFACE CLOSER 4111 HEDA TBSRT 689 LCN
2 EA MOUNTING PLATE 4110-18 SRT 689 LCN
2 EA BLADE STOP SPACER 4110-61 SRT 689 LCN
1 EA GASKETING 5110BL120 BLK PEM
1 EA ASTRAGAL 18041CNB AL PEM
2 EA DOOR SWEEP 3452AV AL PEM
1 EA THRESHOLD 273X3AFG AL PEM
2 EA DOOR CONTACT 679-05HM BLK SCE
1 EA POWER SUPPLY PS902 BBK 900-2RS 120/240 VAC LGR SCE
1 CARD READER - WORK OF DIVISION 28
1 EA NOTE PROVIDE POINT TO POINT WIRING DIAGRAMS
1 EA NOTE PROVIDE RISER WIRING DIAGRAMS
PERIMETER GASKETING BY ALUMINUM FRAME SUPPLIER



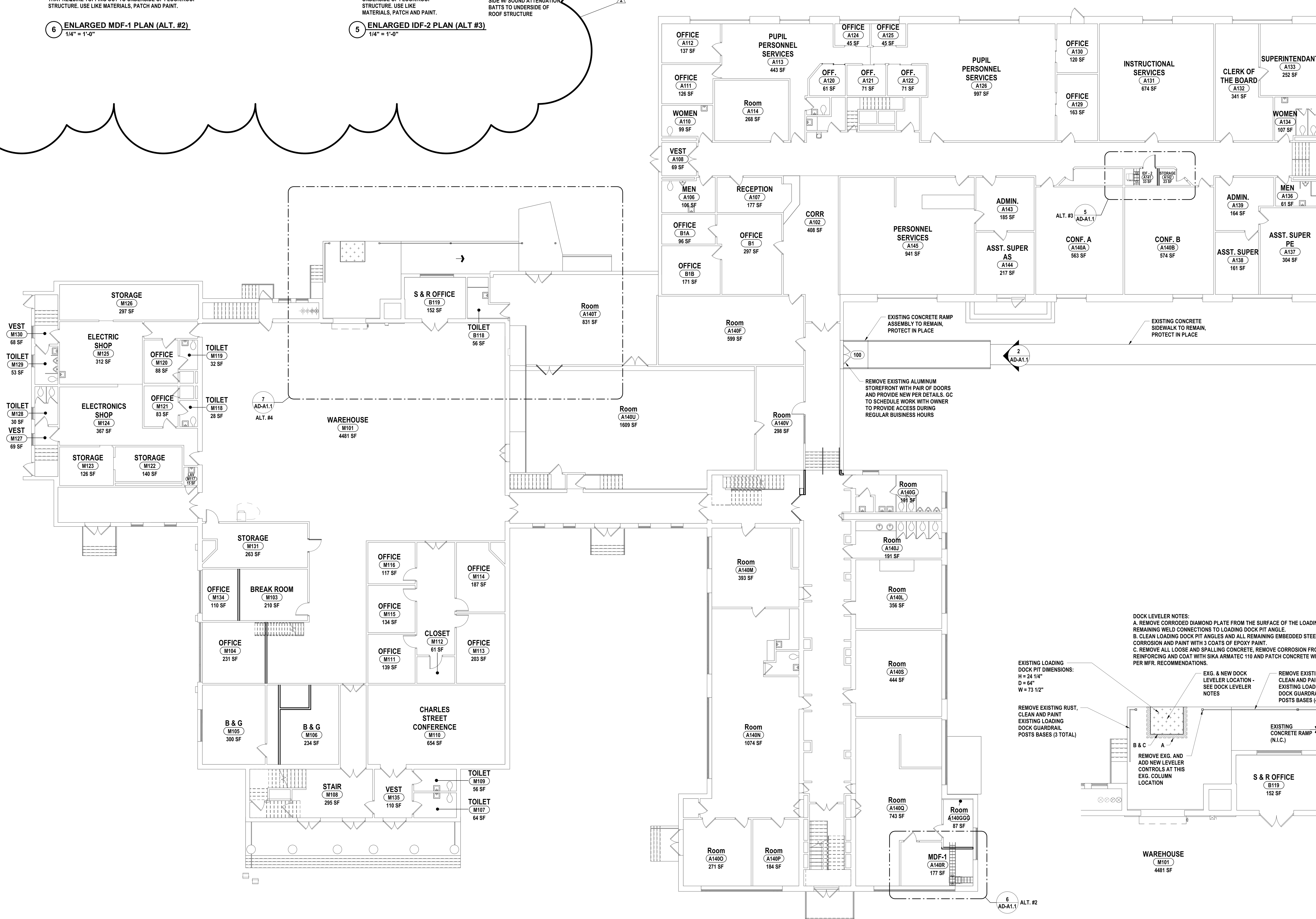
2 ENTRANCE DOOR 100 DETAILS
1/2" = 1'-0"



3 JAMB DETAIL
3" = 1'-0"

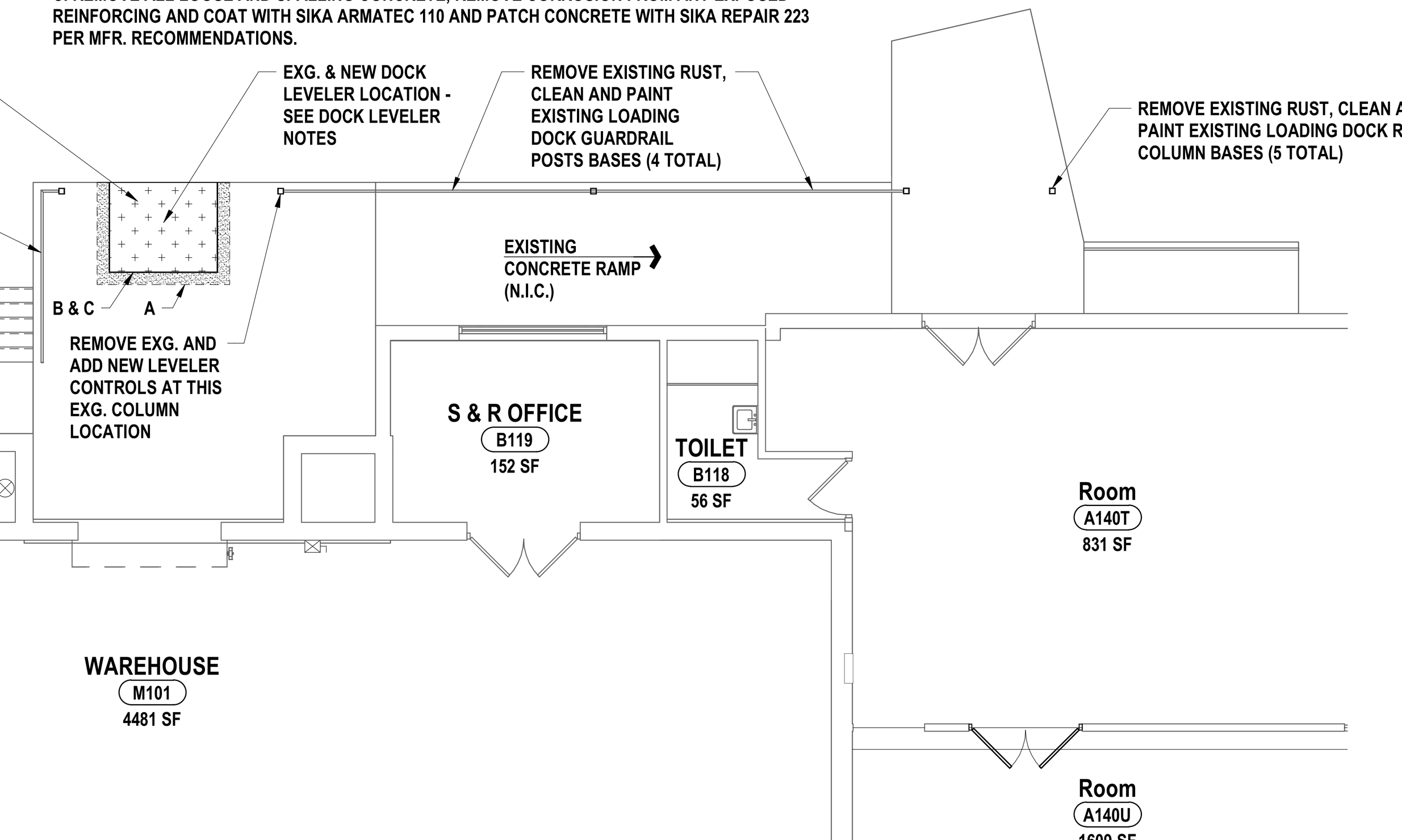
GENERAL NOTES:

A FILL ALL VOIDS AND IMPERFECTIONS IN WALLS AND FLOORS CREATED BY DEMOLITION. PATCH TO MATCH EXISTING & PREPARE TO RECEIVE NEW FINISHES.
B ITEMS SHOWN ARE INTENDED TO GIVE APPROXIMATE QUANTITY, LOCATION & TYPE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL QUANTITY & EXISTING FIELD CONDITIONS.
C VERIFY WITH OWNER EXACT SIZE OF ALL EQUIPMENT FURNISHED BY OWNER FOR PROPER FIT WITH CONTRACTOR SUPPLIED CASEWORK AND MILWORK.
D ALL DIMENSIONS ARE TAKEN FROM FACE OF WALL TO FACE OF WALL. UNLESS NOTED OTHERWISE.
E THERE SHALL BE A MINIMUM OF 1'-6" CLEAR FLOOR SPACE ON THE PULL SIDE OF ALL NEW DOORS; THERE SHALL BE A MINIMUM OF 1'-0" CLEAR FLOOR SPACE ON THE PUSH SIDE OF ALL NEW DOORS.



1 ADMINISTRATION BUILDING FIRST FLOOR PLAN
3/32" = 1'-0"

DOCK LEVELER NOTES:
A. REMOVE CORRODED DIAMOND PLATE FROM THE SURFACE OF THE LOADING DOCK. GRIND OFF REMAINING WELD CONNECTIONS TO LOADING DOCK PIT ANGLE.
B. CLEAN LOADING DOCK PIT ANGLES AND ALL REMAINING EMBEDDED STEEL TO REMOVE ALL CORROSION AND PAINT WITH 3 COATS OF EPOXY PAINT.
C. REMOVE ALL LOOSE AND SPALLING CONCRETE, REMOVE CORROSION FROM ANY EXPOSED REINFORCING AND COAT WITH SIKA ARMATEC 110 AND PATCH CONCRETE WITH SIKA REPAIR 223 PER MFR. RECOMMENDATIONS.



7 ENLARGED LOADING DOCK AREA FLOOR PLAN (ALT. #4)
1/8" = 1'-0"

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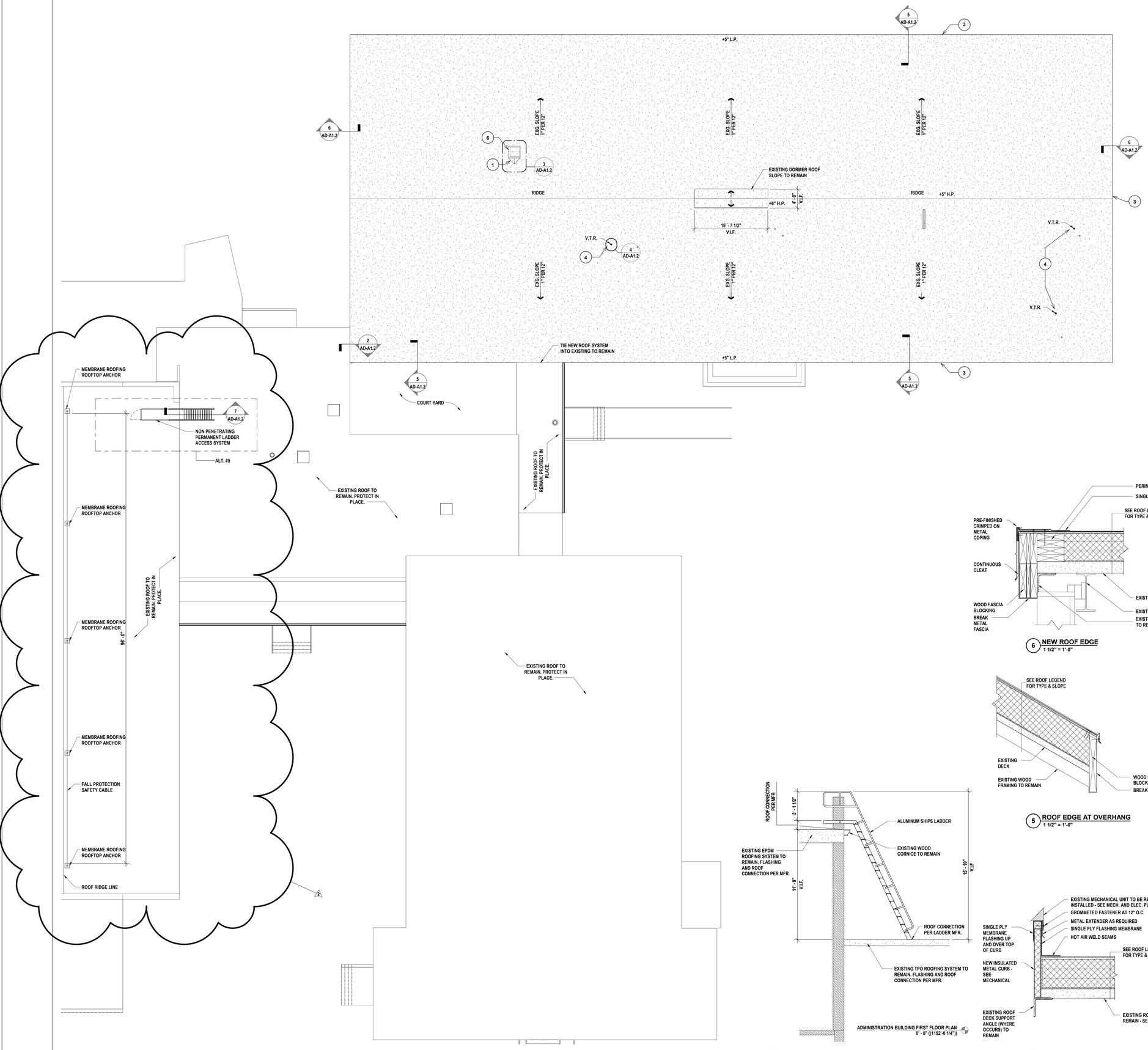
FIRST FLOOR PLAN
2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS
CORNING - PAINTED POST AREA SCHOOL DISTRICT
165 CHARLES ST PAINTED POST, NY 14870

SED NO.: BUS GARAGE - 57-10-00-01-0-015-010; ADMIN. BUILDING - 57-10-00-01-0-001-013; STADIUM - 57-10-00-01-7-026-010

AD-A1.1

PROJECT NO.: 2649.154



1 PARTIAL ROOF PLAN - AREA A
1/8" = 1'-0"

GENERAL ROOF NOTES:

A ALL WORK SHALL CONFORM TO THE NEW YORK STATE BUILDING CODE AND ADOPTED REFERENCE STANDARDS.

B ALL WORK, ON OR NEAR EXISTING ROOFING SCHEDULED TO REMAIN IN PLACE, SHALL BE REFORMED IN SUCH A MANNER TO MAINTAIN ALL EXISTING WARRANTIES.

C THE GENERAL TRADES CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION TO REMAIN AS REQUIRED DURING DEMOLITION. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE RESTORED TO ITS ORIGINAL CONDITION, UNLESS NOTED OTHERWISE.

D THE GENERAL TRADES CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY ROOFING TO ENSURE WEATHER TIGHT CONDITIONS UNTIL SUCH TIME THE PERMANENT ROOFING SYSTEM IS INSTALLED.

E AN ACCEPTABLE INSULATION SHOP DRAWING SUBMISSION IS REQUIRED TO IDENTIFY INSULATION LAYOUT, DRAINAGE PATTERN, SLOPE AND "R" VALUE.

F THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS TO MAKE SMOOTH TRANSITIONS AT ROOF EDGES AND INTERSECTIONS.

G THE GENERAL TRADES CONTRACTOR SHALL REFER TO THE HVAC DRAWINGS AND COORDINATE WITH THE HVAC CONRACTOR FOR QUANTITY AND LOCATIONS OF PENETRATIONS THROUGH ROOF FOR EQUIPMENT CURBS AND BOOTS.

H THE GENERAL TRADES CONTRACTOR SHALL PROVIDE FLASHING AT ALL PENETRATIONS.

I THE HVAC CONTRACTOR SHALL PROVIDE EQUIPMENT CURBS FOR MECH. EQUIP. COORDINATE EXACT LOCATION WITH HVAC CONTRACTOR. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE AND INSTALL PIPE CURBS OF REQUIRED SIZE.

J REFER TO H/E-DRAWINGS FOR WORK BY HVAC AND ELECTRICAL CONTRACTORS ASSOCIATED WITH EXISTING EQUIPMENT REMOVALS AND RE-INSTALLATIONS.

K IF EXISTING ROOF DECK OR STRUCTURAL SYSTEM DAMAGE IS SUSPECTED, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY.

L G.C. TO PROVIDE ANY ADDITIONAL BLOCKING AND ANY ASSOCIATED ACCESSORIES REQUIRED BASED ON INSULATION LAYOUT.

M PREVENT DIRT AND ROOFING DEBRIS FROM ENTERING THE ROOF DRAINGS AND DRAIN LINES (LEADERS) DURING CONSTRUCTION. THE CONTRACTOR SHALL SNAKE DRAIN LINES AT COMPLETION OF WORK.

N ALL ROOFTOP MECHANICAL EQUIPMENT SHALL BE TESTED PRIOR TO REMOVAL IN THE PRESENCE OF THE OWNERS REPRESENTATIVE. FOLLOWING REINSTALLATION, EQUIPMENT WILL AGAIN BE TESTED IN THE PRESENCE OF THE OWNERS REPRESENTATIVE.

ROOF DRAWING NOTES:

1 PROVIDE CRICKETS AT ALL CURBS, RAILS, ETC. WHICH RUN IN LENGTH GREATER THAN 24" PERPENDICULAR TO THE SLOPE OF ROOF INSULATION. SLOPE OF CRICKETS SHALL BE 1/2" VERTICAL PER 12" HORIZONTAL.

2 PROVIDE NEW PREFINISHED METAL FASCIA PER PLANS & DETAILS.

3 PROVIDE NEW PRE-FINISHED METAL COPING TO MATCH FINISH AND PROFILES OF ADJACENT EXISTING ROOFS AS SHOWN IN DETAILS.

4 PROVIDE NEW SINGLE PLY MEMBRANE FLASHING OR PRE-FABRICATED BOOT AROUND EXISTING PIPE PENETRATION TO REMAIN.

5 PROVIDE NEW COUNTER FLASHING, TERMINATION BAR & WALL FLASHING PER DETAILS.

6 EXISTING MECHANICAL EQUIPMENT TO BE REMOVED & REINSTALLED ON NEW INSULATED CURB; SEE MECHANICAL & ELECTICAL DWGS.

ROOF REPLACEMENT LEGEND:

FULLY ADHERED:
- EXISTING TECTUM ROOF DECK TO REMAIN
- VAPOR BARRIER
- R-30 MIN. POLYISO INSULATION
- 1/2" HD POLYISO ROOF COVER BOARD
- 60 MIL. TPO SINGLE PLY ROOFING MEMBRANE

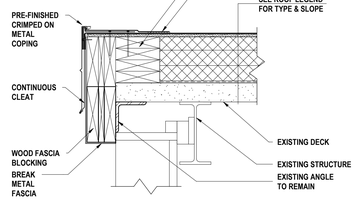
EXISTING ROOF SYSTEM TO REMAIN

VENT PIPE

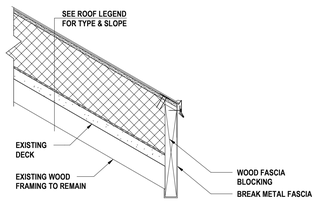
ARROW INDICATES DIRECTION OF SLOPE FOR THE ROOF STRUCTURE OR TAPERED INSULATION (SEE STRUCTURAL DRAWINGS)

+8" HP INSULATION THK @ HIGH POINT

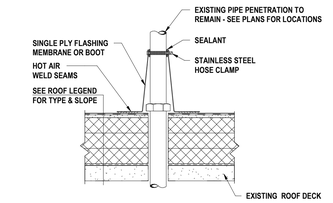
+2" LP INSULATION THK @ LOW POINT



6 NEW ROOF EDGE
1 1/2" = 1'-0"

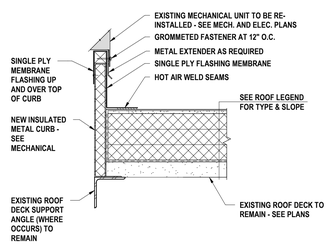


5 ROOF EDGE AT OVERHANG
1 1/2" = 1'-0"

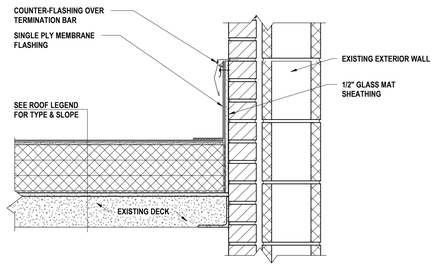


4 NEW VENT PIPE DETAIL
1 1/2" = 1'-0"

7 SECTION THRU ROOF ACCESS LADDER (ALT. #5)
1/4" = 1'-0"



3 NEW MECH. CURB DETAIL
1 1/2" = 1'-0"



2 ROOF TO WALL TRANSITION
1 1/2" = 1'-0"

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"IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S, ARCHITECT'S OR SURVEYOR'S SEAL."

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7949 TOWANDA, PA 570 - 265 - 4868
BINGHAMTON, NY 607 - 798 - 8081 ALBANY, NY 607 - 798 - 8081
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

SED NO.: BUS GARAGE - 57-10-00-01-0-015-010; ADMIN. BUILDING - 57-10-00-01-1-001-013; STADIUM - 57-10-00-01-7-026-010

ROOF PLAN

2025 BUS GARAGE, ADMIN, & STADIUM ALTERATIONS
CORNING - PAINTED POST AREA SCHOOL DISTRICT

165 CHARLES ST PAINTED POST, NY 14870

AD-A1.2

PROJECT NO: 2649.154