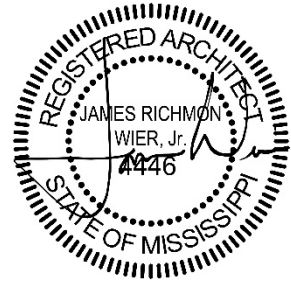




16 November 2020

Columbia School District
Columbia High School Athletics Renovations
WBA #4619



ADDENDUM NO. 02

NOTICE TO ALL DOCUMENT HOLDERS:

The following additions, deletions, changes and clarifications to the drawings and specifications are to be included as part of the Contract Documents.

GENERAL

ITEM NO. 1

BID OPENING

Anyone attending the bid opening must check in at the Columbia Public Schools Administration Building at 613 Bryan Avenue, across the street from the school. Please call (601) 736-2366 with any questions regarding this. Due to COVID-19, *MASKS WILL BE REQUIRED UPON ENTERING ANY BUILDING.*

SPECIFICATIONS

ITEM NO. 2

SECTION 00.0110 – TABLE OF CONTENTS

2.24 DIVISION 32 – EXTERIOR IMPROVEMENTS

ADD:

“32.1824 – Infilled Synthetic Turf”

ITEM NO. 3

SECTION 00.4100 – BID FORM

Replace page in its entirety with attached Section 00.4100.

Added Alternate #3.

ITEM NO. 4

SECTION 00.7300 – SUPPLEMENTARY CONDITIONS

PART 1 – GENERAL, 1.3 MODIFICATIONS TO GENERAL CONDITIONS

I. ARTICLE 9 – PAYMENTS AND PROCEDURES

5. Paragraph 9.11 LIQUIDATED DAMAGES, a), 2)9.11.1

ADD *liquidated damages in blanks:*

“Amount of liquidated damages per day is as follows: [seven hundred fifty] dollars (\$750).”

- ITEM NO. 5** **SECTION 01.2300 – BID FORM**
1.4 SCHEDULE OF ALTERNATES
ADD item C:
 “C. Alternate No. [3] - [Turf Upgrade]:
1. Base Bid Item: Base bid includes all site prep work up to the track system. All site prep work at track not included in Section 32.1824 is to be included in base bid.
 2. Alternate Item: Section [32.1824] and Drawing number [A100] including [track layout].”
- ITEM NO. 6** **SECTION 08.7100 – DOOR HARDWARE**
CLARIFICATION
All locks and cylinders are to be provided in Sargent “RB” keyway and keyed to the existing grand master key system. Conventional cylinders need to be provided. SFIC is not required.
- ITEM NO. 7** **SECTION 32.1824 – INFILLED SYNTHETIC TURF**
Add attached section 32.1824.
This section has been added as Alternate #3.
- ITEM NO. 8** **SECTION 32.3119 – DECORATIVE METAL FENCES AND GATES**
Replace section in its entirety with attached Section 32.3119.
- ITEM NO. 9** **SECTION 31.0519.16 - GEOMEMBRANE**
ADD the following as part of Qualifications:
- “Contractor must be a member of American Sports Builders Association (ASBA) and be in good standing with the association and must have a Certified Field Builder – Synthetic Turf (CFB-S) on staff during the bidding and construction process.”
- ITEM NO. 10** **SECTION 32.1123 - CRUSHED STONE**
ADD the following as part of Qualifications:
- “Contractor must be a member of American Sports Builders Association (ASBA) and be in good standing with the association and must have a Certified Field Builder – Synthetic Turf (CFB-S) or Certified Track Builder (CTB) on staff during the bidding and construction process.”
- ITEM NO. 11** **SECTION 32.1200 - ROADWAY BASE AND PAVING**
ADD the following as part of Qualifications:
- “Contractor must be a member of American Sports Builders Association (ASBA) and be in good standing with the association and must have a Certified Track Builder (CTB) on staff during the bidding and construction process.”
- ITEM NO. 12** **SECTION 33.0533.33 - PANEL DRAINS**
ADD the following as part of Qualifications:
- “Contractor must be a member of American Sports Builders Association (ASBA) and be in good standing with the association and must have a Certified Field Builder – Synthetic Turf (CFB-S) on staff during the bidding and construction process.”



DRAWINGS

- ITEM NO. 13** **C102 – DEMOLITION & SWPPP PLAN**
Replace page in its entirety with attached sheet C102.
REMOVED some demolition scope. Demolition listed as “by Owner” will be completed prior to start of this project.
- ITEM NO. 14** **C301 – DRAINAGE PLAN**
Replace page in its entirety with attached sheet C301.
ADDED trench drain at south “d-zone”
- ITEM NO. 15** **C302 – GRADING PLAN**
Replace page in its entirety with attached sheet C302.
ADDED trench drain at south “d-zone”
- ITEM NO. 16** **C303 – GRADING/DRAINAGE PROFILES & SECTIONS**
Replace page in its entirety with attached sheet C303.
ADDED trench drain at south “d-zone”
- ITEM NO. 17** **C501 – OVERALL PAVING AND FENCING PLAN**
Replace page in its entirety with attached sheet C501.
ADDED trench drain at south “d-zone”
- ITEM NO. 18** **C502 – PAVING & FENCING PLAN**
Replace page in its entirety with attached sheet C502.
ADDED trench drain at south “d-zone”
- ITEM NO. 19** **D101 – ARCHITECTURAL DEMOLITION**
Replace page in its entirety with attached sheet D101.
REMOVED some demolition scope. Demolition listed as “by Owner” will be completed prior to start of this project.
- ITEM NO. 20** **A103 – ROOF PLAN**
Replace page in its entirety with attached sheet A103.
CLARIFICATION on existing Building J roof and downspout sizes.
- ITEM NO. 21** **A204 – EXTERIOR ELEVATIONS**
Replace page in its entirety with attached sheet A204.
CLARIFICATION on existing Building J roof.
- ITEM NO. 22** **A300 – WALL SECTIONS**
Replace page in its entirety with attached sheet A300.
CLARIFICATION on ceilings.
- ITEM NO. 23** **A301 – WALL SECTIONS**
Replace page in its entirety with attached sheet A301.
CLARIFICATION on ceilings.
- ITEM NO. 24** **A302 – WALL SECTIONS**
Replace page in its entirety with attached sheet A302.
CLARIFICATION on ceilings.



- ITEM NO. 25** **S2.2 – ROOF FRAMING PLAN – BUILDING A,B,D, AND E**
Replace page in its entirety with attached sheet S2.2.
REVISED note about roof penetrations
- ITEM NO. 26** **S2.4 – PLAZA STRUCTURES & BLEACHER COLUMN WRAP**
Add attached sheet S2.4.
ADDED information for plaza and bleacher column wraps
- ITEM NO. 27** **S2.5 – BUILDING F FOUNDATION PLAN & CEILING PLAN**
Add attached sheet S2.5.
ADDED foundation plan for Building F. Added ceiling framing plans for buildings B, C, D, and F
ADDED ceiling framing plan for building G

Encl: none

cc: All Document Holders
File 4619 C2



Bid Form**THE PROJECT AND THE PARTIES****1.1 TO:**

A. Columbia School District (Owner)

1.2 FOR:

A. Columbia High School Athletics Renovations

1.3 DATE: _____ (BIDDER TO ENTER DATE)**1.4 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)**

A. Bidder's Full Name _____

1. Address _____

2. City, State, Zip _____

1.5 OFFER

A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by Wier Boerner Allin Architecture, PLLC for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:

B. _____
 _____ dollars (\$ _____), in
 lawful money of the United States of America.

C. We have included the required security deposit as required by the Instruction to Bidders.

D. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.

E. All applicable federal taxes are included and State of [_____] taxes are included in the Bid Sum.

F. All Cash and Contingency Allowances described in Section 01.2100 - Allowances are included in the Bid Sum.

G. ALTERNATES:

1. ALTERNATE #1 (ADD): \$ _____

a. (amount in words) _____

2. ALTERNATE #2 (ADD): \$ _____

a. (amount in words) _____

3. ALTERNATE #3 (ADD): \$ _____

a. (amount in words) _____

1.6 ACCEPTANCE

- A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.
- B. If this bid is accepted by Owner within the time period stated above, we will:
 - 1. Execute the Agreement within seven days of receipt of Notice of Award.
 - 2. Furnish the required bonds within seven days of receipt of Notice of Award.
 - 3. Commence work within seven days after written Notice to Proceed of this bid.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.7 CONTRACT TIME

- A. If this Bid is accepted, we will:
- B. Complete the Work by the 6th day of August.

1.8 UNIT PRICES

- A. The following are Unit Prices for specific portions of the Work as listed. The following is the list of Unit Prices:
- B. ITEM DESCRIPTION - UNIT QUANTITY - UNIT PRICE - ITEM VALUE
- C. Removal of existing soils and placement of compacted fill materials required for the construction of the building pad, parking and paved areas, track, and football field. - Cubic Yard - \$
 - 1. _____
_____ dollars per cubic yard (\$ _____) per cubic yard, in
lawful money of the United States of America.

1.9 ADDENDA

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
 - 1. Addendum # _____ Dated _____.
 - 2. Addendum # _____ Dated _____.

1.10 BID FORM SIGNATURE(S)

- A. The Corporate Seal of
- B. _____
- C. (Bidder - print the full name of your firm)
- D. was hereunto affixed in the presence of:
- E. _____
- F. (Authorized signing officer, Title)
- G. (Seal)
- H. _____
- I. (Authorized signing officer, Title)

1.11 IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.

END OF SECTION

Infilled Synthetic Turf

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this section.

1.2 SCOPE OF WORK

- A. Furnish all labor, materials, tools and equipment necessary to install, in place, all synthetic turf material as indicated on the plans and as specified herein. The installation of all new materials shall be performed in strict accordance with the manufacturer's written installation instructions, and in accordance with all approved shop drawings.
- B. Prior to order of materials, the Turf Contractor shall submit the following:
 - 1. Product Data including Independent Test Lab Results
 - 2. Installation Details
 - 3. Sample Warranty
 - 4. Field layout and striping plans
 - 5. Details on construction, especially any details that may deviate from plans and specifications.
- C. Prior to the beginning of installation, the Turf Contractor/manufacturer of the synthetic turf shall inspect the subbase and supply a Certificate of Subbase Acceptance for the purpose of obtaining manufacturer's warranty for the finished synthetic turf playing surface.
- D. Prior to Final Acceptance, the Turf Contractor shall submit to the Owner three (3) copies of Maintenance Manuals, which will include necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including painting and striping.

1.3 SHOP DRAWINGS

- A. Shop drawings shall be prepared at the scale of the construction documents and contain all pertinent information regarding installation. These drawings shall be submitted to the Owner for approval prior to the manufacturing and shipment of materials.
- B. Submit drawings for:
 - 1. Installation details; edge detail, goal post detail, other inserts and covers, etc.
 - 2. Striping plan; layouts showing any field lines, markings and boundaries, and field logos per project drawings.

1.4 QUALITY ASSURANCE

- A. Manufacturer/Installer's Experience:

1. The synthetic turf installer/manufacturer shall have manufactured and installed at least fifty (50) acceptable installations of full-size football or soccer fields (minimum of 70,000 SF) in the United States within the past five (5) years with tufted, helix-shaped monofilament fiber synthetic turf infilled with a layered system of infill. Provide this listing with the bid.
 2. The Turf Contractor shall employ only qualified, experienced supervisors and technicians skilled in the installation of the specified system.
- B. Turf Contractor shall meet the following criteria:
1. Turf Contractor must have proper Contractors license, authority to do business in the state bidding, in good standing, and have never had revocation of the same.
 2. Turf Contractor must have been in business for ten (10) years under the same name and corporate organization.
 3. Turf Contractor must have NOT had a Surety or Bonding Company finish work on any contract within the last ten (10) years.
 4. Turf Contractor must have not been disqualified or barred from performing work for any public Owner or other contracting entity in the last ten (10) years.
 5. Turf Contractor must not have any fields replaced under warranty.
 6. Turf Contractor must not be currently involved with any patent or trademark litigation, specifically being sued or suing for patent infringement.
 7. Turf Contractor must be a member of American Sports Builders Association (A.S.B.A) for more than 10 years and be in good standing with the association and must have a Certified Field Builder on staff during the bidding and construction process.
 8. Any Turf Contractor which has been in business for less than 10 years, had a name change within that time period, had a legal structure change or any business that has had a 35% change in ownership in the last 10 years, will not be considered as a contractor or supplier.
 9. Turf Contractor must be a single source contractor. The contractor must install the synthetic turf and the base construction or repair with its own employees (not subcontractors) and must self-perform 100% of total scope of work.
 10. Turf Contractor must utilize the Field Lock System US Patent #7,838,096 and have Field Lock certification.
 11. Turf Contractor shall use Helix technology, patent pending, on the turf fibers during the manufacturing/extrusion process of the synthetic turf system.
 12. Turf Contractor must manufacture its own fiber and synthetic turf, two-step distribution is not acceptable. Turf Contractors who do not manufacture their own fiber and synthetic turf shall be disqualified.
 13. Turf Contractor must have manufactured its own synthetic turf for at least 10 years.

14. Turf Foreman must currently be employed by Turf Contractor and have been an employee not subcontractor of Turf Contractor for at least the last five years.
15. Turf Contractor must be a member of the Synthetic Turf Council.
16. Turf Contractor must self-perform the laser grading of the stone, curb work, drainage work and all other site work associated with the construction of the synthetic turf field.
17. Turf Contractor must provide liability insurance policy with aggregate umbrella liability coverage of \$10,000,000.
18. The synthetic turf system must have been in service in the U.S. for at least ten years.
19. The Turf Contractor shall install a 19mm Cushdrain® pad that is paved into place over the laser-graded stone foundation of the turf field. Only factory trained technicians skilled in the installation process shall execute the placement of the Cushdrain system.
20. The Turf Contractor shall have 10 years of experience in the installation of Cushdrain systems. The contractor shall also have at least eighty (80) acceptable Cushdrain installations in the United States of the exact specified product within the past ten (10) years.

C. Warranty:

1. The turf Contractor shall submit the synthetic turf manufacturer's warranty. The warranty guarantees the usability and playability of the synthetic turf system for its intended uses for an eight (8) year period commencing with the date of Substantial Completion.
2. The warranty submitted must have the following characteristics:
 - a. Must provide coverage for eight (8) years from the date of Substantial Completion.
 - b. Must warrant materials and workmanship.
 - c. Must verify through a third party that the materials installed meet or exceed the product specifications.
 - d. Must have a provision to either make a cash refund or repair or replace such portions of the installed materials that are no longer serviceable to maintain a serviceable and playable surface.
 - e. Must be a manufacturer's warranty from a single source covering workmanship and all self-manufactured or procured materials.
 - f. Turf Contractor must provide a full eight-year third party insured warranty on the synthetic turf with an aggregate coverage of \$1,000,000.

1.5 EXISTING CONDITIONS

- A. If the surface on which the new synthetic turf system is to be placed is an existing asphaltic/concrete base, the Turf Contractor will be responsible for any damage to the concrete during removal/installation of the synthetic turf system. The football goal posts, if any, are to be removed and reinstalled by the Owner or Prime Contractor to facilitate the installation of the new synthetic turf system.

- B. If the surface on which the new synthetic turf system is to be placed is a new asphaltic concrete base or a new base of porous aggregate, the Turf Contractor will be responsible for any damage to the subbase during removal/installation of the synthetic turf system after the deficiencies (if any) have been corrected as noted on the Certificate of Subbase Acceptability. New football goal posts (if any) and/or infield dirt mix backfill within the contiguous turf limits or immediately adjacent thereto are not to be installed by the Owner/Prime Contractor until after the new synthetic turf system has been completed.

1.6 SCHEDULE

- A. Turf Contractor shall complete all work on the synthetic turf system in accordance with the published project schedule.
- B. The Turf Contractor will require unencumbered use of an area within thirty (30) feet of the synthetic turf area(s) being installed in order to complete its work. Turf Contractor shall also be afforded unencumbered access through the construction site to reach the turf field area being installed.

1.7 SURFACE AREA

- A. The Turf Contractor is to verify all measurements.

1.8 UTILITIES

- A. Owner/Prime Contractor will supply necessary water, adequate lighting and electricity for installation. Owner/Prime Contractor shall permit the use of toilet and wash up facilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Synthetic turf shall be comprised of helix-shaped dual color monofilament fibers tufted and coated with a secondary backing of high-grade polyurethane. The synthetic turf yarn shall be comprised of a C8-based linear low-density polyethylene polymer (LLDPE) with a 10,000 PPM UV Stabilizer. The fibers shall be tufted to a finished pile height of approximately 2" (+/- 1/8"). The turf fabric shall be filled with a layered system of pea gravel and Ecotherm infill.
- B. All components and their installation method shall be designed and manufactured for use on outdoor and indoor athletic fields. The materials, as hereinafter specified, should be able to withstand full climatic exposure in all climates, be resistant to insect infestation, rot, fungus and mildew; to ultra-violet light and heat degradation, and shall have the basic characteristic of flow through-drainage allowing free movement of surface run-off through the turf fabric where such water may flow to the existing subbase and into the field drainage system.
- C. The finished playing surface shall appear as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use. The installed system shall be suitable for football, soccer, lacrosse, baseball, softball, physical education classes, intramurals and recreational use.

2.2 THE PILE YARN (POLYETHYLENE) SHALL BE A PROVEN ATHLETIC CALIBER YARN DESIGNED SPECIFICALLY FOR OUTDOOR USE AND STABILIZED TO RESIST THE EFFECT OF ULTRAVIOLET DEGRADATION, HEAT, FOOT TRAFFIC, WATER AND AIRBORNE POLLUTANTS.

- A. Infill material shall be layered system of pea gravel and Ecotherm organic infill in accordance with the manufacturer's recommendations and the owner's preference. No other infill will be accepted.
- B. Perimeter and interior edge details, underground storm sewer piping and connections, and goal post foundations required for the system shall be as detailed and recommended by the manufacturer and as approved by the Owner.
- C. Basis of Design: Matrix® with Helix shape memory technology as manufactured by Hellas Construction, Inc.
- D.

	standard	property	specification
1	ASTM D418/D5848	Pile Weight	40 - 45 oz. /Sq. Yd.
2	ASTM D5848	Primary and Secondary Backing Weight	7.9 oz. /Sq. Yd.
3	ASTM D5848	Secondary Coating Weight	22 oz. /Sq. Yd.
4	ASTM D5848	Total Weight	69.9 - 79.9 oz. /Sq. Yd.
5	ASTM D1907	Yarn Denier	12,400
6	ASTM D418/D5848	Pile Height	2" (+/- 1/8")
7	ASTM D5793	Tufting Gauge	1/2"
8	ASTM D5848	Primary Backing	Tri-layer woven Polypropylene
9	ASTM D5848	Secondary Coating	Polyurethane
10	ASTM D1335	Tuft Bind without Infill	10 lbs. +/-
11	ASTM D1682/D5034	Grab Tear (length)	>300 lbs Force.
12	ASTM D1682/D5034	Grab Tear (width)	>350 lbs. Force
13	ASTM D4991	Carpet Permeability	>40 inches/hour
14	ASTM D2859	Flammability (Pill Burn)	Pass
15	ASTM F355	G-max (Impact Attenuation)	<100 at installation <175 over warranty life
16	ASTM E-11	Ecotherm Infill	5.8 lbs +/- per square foot
17		Fabric Width	15'
18		Perforation	3/16" Holes 4" X 4"
19	ASTM D3218	Yarn	Average thickness 170 microns C8 LLDPE Resin 10,000 PPM UV Stabilizer
20		Cushdrain Shock Pad 19mm or 25 mm	Material: 1-5 mm SBR Rubber, mineral

		aggregate and moisture cured polyurethane binder.
21		All Characteristics listed above nominal +/- 5%

- E. Matrix® turf incorporates life like individual blades of grass, tufted into the strongest and most dimensionally stable backing system available with a polyurethane pre-coat for the ultimate in tuft-bind.

2.3 MATRIX IS FILLED WITH A PEA GRAVEL (4 LBS) AND ECOTHERM INFILL (1.8 LBS). INFILL WILL BE A MINIMUM OF 75% OF SYNTHETIC TURF PILE HEIGHT. HELIX SHAPE MEMORY TECHNOLOGY IS ADDED TO MATRIX FIBERS DURING THE MANUFACTURING/EXTRUSION PROCESS WHICH MAKES THE FIBER TWIST INTO A HELIX SHAPE. THIS UNIQUE SHAPE LOCKS IN AND SECURES THE INFILL TO IMPROVE TRACTION. THE MONOFILAMENT FIBERS TWIST TO COVER AND TRAP THE INFILL GRANULES PREVENTING THE SYSTEM FROM EXPELLING THE INFILL UPON IMPACT.

- A. Matrix is a fully UV stabilized system ideal for outdoor use.
- B. Due to the many variations in manufacturing dye lots, it should be expected that some variation in fiber color exists. Although we consider these variances to be minimal, there is no way to assure exact color and absolute uniformity of color hues. Variances in color amongst fiber does not affect the performance or warranty of the fiber.

PART 3 - EXECUTION

3.1 GENERAL

- A. The installation shall be performed in full compliance with approved shop drawings.
- B. Only factory-trained technicians, skilled in the installation of athletic caliber synthetic turf systems working under the direct supervision of the synthetic turf manufacturer's installation supervisors shall undertake the placement of the system.
- C. The surface to receive the synthetic turf shall be inspected and certified by the turf manufacturer as ready for the installation of the synthetic turf system and must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.

3.2 INSTALLATION

- A. The subbase and curbs shall be inspected by the Engineer or Sitework Contractor by means of a laser level and plotted on a 10-foot grid. Based upon the Turf Contractor's inspection of the topological survey, the Sitework Contractor shall fine grade the subbase suitably - including properly rolling and compacting the base to achieve a surface planarity within ¼" in 10 feet (+0, - 1/4"0). OWNER, ENGINEER OR PRIME CONTRACTOR SHALL NOT APPROVE THE SUBBASE FOR TOLERANCE TO GRADE WITHOUT OBTAINING THE TOPOLOGICAL SURVEY.
- B. The Turf Project Superintendent shall thoroughly inspect all materials delivered to the site both for quality and quantity to assure that the entire installation shall have sufficient materials to maintain the schedule and proper mixing ratios.

- C. Synthetic turf shall be loose laid across the field and attached to the perimeter edge detail. Turf shall be of sufficient length to permit full cross-field installation. No head or cross seams will be allowed, except as required for inlaid fabric striping or to accommodate programmed cut-outs.
- D. All seams shall be flat, tight, and permanent with no separation or fraying. All seams and markings shall be adhered to a special tape with a single component, high strength polyurethane adhesive applied per the Turf Contractor's standard procedures for outdoor applications.
- E. Infill materials shall be properly applied in numerous thin lifts using special broadcasting equipment to produce a layered system of pea gravel and Ecotherm. The turf shall be raked and brushed properly as the mixture is applied. The layered system of pea gravel and Ecotherm materials can only be applied when the turf fabric is dry.
- F. Weather/climatic conditions may be a factor in delay of installation but shall not warrant the accrual of additional liquidated damages. Should the ambient outdoor temperature fall below 45 degrees Fahrenheit, the Turf Contractor and Owner will discuss available options and/or stoppage of work. However, the final decision shall be at the Turf Contractor's discretion.

3.3 FIELD MARKINGS AND DECORATIONS

- A. Field markings and decorations shall be installed in accordance with approved project shop drawings.

3.4 CLEAN UP

- A. Turf Contractor shall provide the labor, supplies and equipment as necessary for final cleaning of surfaces and installed items.
- B. All usable remnants of new material shall become the property of the Owner.
- C. The Turf Contractor shall keep the area clean throughout the project and clear of debris.
- D. Surfaces, recesses, enclosures, etc., shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.

3.5 OTHER MATERIALS AND EQUIPMENT

- A. Maintenance Equipment
 - 1. Provide one (1) towed, non-powered Turf Sweeper with hitch, excluding prime mover vehicle. The sweeper attachment shall be of sufficient size to cover a 36" wide swath in a single pass. The sweeper attachment shall be fitted with synthetic bristle brushes as recommended by the synthetic turf manufacturer and shall be used primarily to collect surface debris.

END OF SECTION

Decorative Metal Fences and Gates

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The contractor shall provide all labor, materials and appurtenances necessary for installation of the welded ornamental steel fence system defined herein at (specify project site).

1.2 RELATED WORK

- A. Section 03.3000 - Cast-in-Place Concrete
- B. Section 31.2316 - Excavation

1.3 SYSTEM DESCRIPTION

- A. The manufacturer shall supply a total fence system of Welded and Rackable Ornamental Steel design. The system shall include all components (i.e., panels, posts, gates and hardware) required.

1.4 QUALITY ASSURANCE

- A. The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.5 REFERENCES

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
- B. ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
- C. ASTM D523 - Test Method for Specular Gloss
- D. ASTM D714 - Test Method for Evaluating Degree of Blistering in Paint.
- E. ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
- F. ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- G. ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
- H. ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- I. ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.
- J. ASTM F2408 – Ornamental Fences Employing Galvanized Steel Tubular Pickets.

1.6 SUBMITTAL

- A. The manufacturer's literature shall be submitted prior to installation.

1.7 PRODUCT HANDLING AND STORAGE

- A. Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism and theft.

1.8 PRODUCT WARRANTY

- A. All structural fence components (i.e. rails, pickets, and posts) shall be warranted within specified limitations, by the manufacturer for a period of 20 years from date of original purchase. Warranty shall cover any defects in material finish, including cracking, peeling, chipping, blistering or corroding.
- B. Reimbursement for labor necessary to restore or replace components that have been found to be defective under the terms of manufacturer's warranty shall be guaranteed for five (5) years from date of original purchase.

PART 2 - MATERIALS

2.1 MANUFACTURER

- A. The fence system shall conform to Welded and Rackable (ATF – All Terrain Flexibility) Ornamental Steel, classic design, 4" picket spacing, extended picket bottom rail treatment, 3-rail style
- B. Basis of Design: Montage Plus as MANUFACTURED BY AMERISTAR FENCE PRODUCTS, INC., IN TULSA, OKLAHOMA.

2.2 MATERIAL

- A. Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (310 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.60 oz/ft² (184 g/m²), Coating Designation G-60.
- B. Material for pickets shall be 3/4" square x 18 Ga. tubing. The rails shall be steel channel, 1.5" x 1.4375" x 14 Ga. Picket holes in the rail shall be spaced (specify 4.675" o.c. for standard picket space or 3.500" o.c. for 3" air space). Fence posts and gate posts shall meet the minimum size requirements of Table 1.

2.3 FABRICATION

- A. Pickets, rails and posts shall be pre-cut to specified lengths. Rails shall be pre-punched to accept pickets.
- B. Pickets shall be inserted into the pre-punched holes in the rails and shall be aligned to standard spacing using a specially calibrated alignment fixture. The aligned pickets and rails shall be joined at each picket-to-rail intersection by Ameristar's proprietary fusion welding process, thus completing the rigid panel assembly (Note: The process produces a virtually seamless, spatter-free good-neighbor appearance, equally attractive from either side of the panel).
- C. The manufactured panels and posts shall be subjected to an inline electrode position coating (E-Coat) process consisting of a multi-stage pretreatment/wash, followed by a duplex application of an epoxy primer and an acrylic topcoat. The minimum cumulative coating thickness of epoxy and acrylic shall be 2 mils (0.058 mm). The

color shall be (specify Black or Bronze). The coated panels and posts shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2 (Note: The requirements in Table 2 meet or exceed the coating performance criteria of ASTM F2408).

- D. The manufactured fence system shall be capable of meeting the vertical load, horizontal load, and infill performance requirements for Commercial weight fences under ASTM F2408.
- E. Gates with an out to out leaf dimension less than and including 72 inches shall be fabricated using Montage Plus ornamental panel material and 1-3/4" sq. x 14ga. gate ends. Gate leafs greater than 72 inches shall be fabricated using ForeRunner rails, 17 gauge pickets, intermediate uprights, gussets and 1-3/4" sq. x 14ga. gate ends. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding.

PART 3 - EXECUTION

3.1 PREPARATION

- A. All new installation shall be laid out by the contractor in accordance with the construction plans.

3.2 INSTALLATION

- A. Fence post shall be spaced according to Table 3, plus or minus ¼". For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade. Fence panels shall be attached to posts with brackets supplied by the manufacturer. Posts shall be set in concrete footers having a minimum depth of 36" (Note: In some cases, local restrictions of freezing weather conditions may require a greater depth). The "Earthwork" and "Concrete" sections of this specification shall govern material requirements for the concrete footer. Posts setting by other methods such as plated posts or grouted core-drilled footers are permissible only if shown by engineering analysis to be sufficient in strength for the intended application.

3.3 FENCE INSTALLATION MAINTENANCE

- A. When cutting/drilling rails or posts adhere to the following steps to seal the exposed steel surfaces; 1) Remove all metal shavings from cut area. 2) Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry. 3) Apply 2 coats of custom finish paint matching fence color. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Ameristar spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Ameristar parts or components will negate the manufactures' warranty.

3.4 GATE INSTALLATION

- A. Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacture of the gate and shall be installed per manufacturer's recommendations.

3.5 CLEANING

- A. The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.

TABLE 1 – MINIMUM SIZES FOR MONTAGE PLUS POSTS

FENCE POSTS		PANEL HEIGHT	
2-1/2" X 16 GA.		UP TO & INCLUDING 6' HEIGHT	
GATE LEAF		GATE HEIGHT	
		UP TO & INCLUDING 4'	OVER 4' UP TO & INCLUDING 6'
UP TO 4'		2-1/2" X 14 GA.	3" X 12 GA.
4'1" TO 6'		3" X 12 GA.	3" X 12 GA.
6'1" TO 8'		3" X 12 GA.	4" X 12 GA.

TABLE 2 – COATING PERFORMANCE REQUIREMENTS

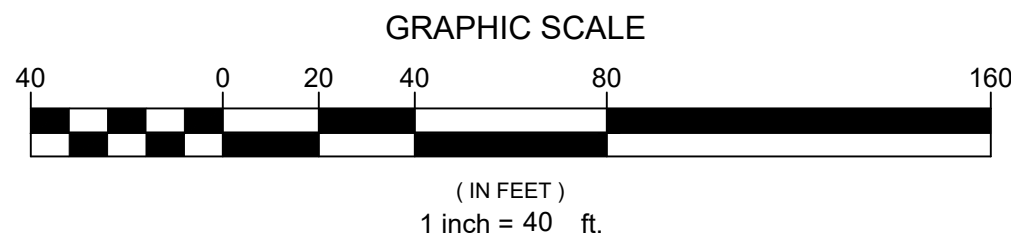
QUALITY CHARACTERISTICS	ASTM TEST METHOD	PERFORMANCE REQUIREMENTS
ADHESION	D3359 – METHOD B	ADHESION (RETENTION OF COATING) OVER 90% OF TEST AREA (TAPE AND KNIFE TEST).
CORROSION RESISTANCE	B117, D714 & D1654	CORROSION RESISTANCE OVER 1,500 HOURS (SCRIBED PER D1654; FAILURE MODE IS ACCUMULATION OF 1/8" COATING LOSS FROM SCRIBE OR MEDIUM #8 BLISTERS).
IMPACT RESISTANCE	D2794	IMPACT RESISTANCE OVER 60 INCH LB. (FORWARD IMPACT USING 0.625" BALL).
WEATHERING RESISTANCE	D822 D2244, D523 (60° METHOD)	WEATHERING RESISTANCE OVER 1,000 HOURS (FAILURE MODE IS 60% LOSS OF GLOSS OR COLOR VARIANCE OF MORE THAN 3 DELTA-E COLOR UNITS).

TABLE 3 – MONTAGE PLUS – POST SPACING BY BRACKET TYPE

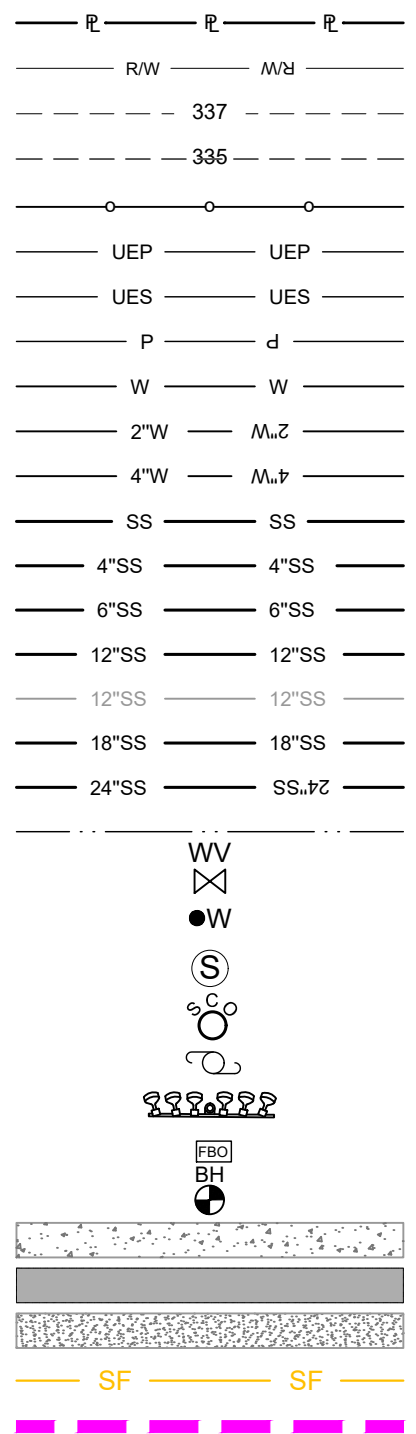
SPAN	FOR CLASSIC, GENESIS, MAJESTIC, & WARRIOR 8' NOMINAL (91.95" RAIL)					
POST SIZE	2-1/2"	2-1/2"	2-1/2"	3"	2-1/2"	3"
BRACKET TYPE	MONTAGE PLUS UNIVERSAL	MONTAGE PLUS	MONTAGE PLUS FLAT MOUNT		MONTAGE PLUS SWIVEL	

	(BB112)	LINE BLVD. (BB114)	(BB111)		(BB113)*	
POST SETTINGS ± 1/4" O.C.	95"	95"	95"	95-1/2"	*95"	*95-1/2"
<p>*NOTE: WHEN USING BB113 SWIVEL BRACKETS ON EITHER OR BOTH ENDS OF A PANEL INSTALLATION, CARE MUST BE TAKEN TO ENSURE THE SPACING BETWEEN POST AND ADJOINING PICKETS MEETS APPLICABLE CODES. THIS WILL REQUIRE TRIMMING ONE OR BOTH ENDS OF THE PANEL.</p>						

END OF SECTION



LEGEND



DEMILITION NOTES

- CONTRACTOR SHALL USE EXTREME CARE IN REMOVING ASPHALT, CONCRETE, AND CONCRETE CURB & GUTTER INSIDE CONSTRUCTION LIMITS. NEAT AND STRAIGHT SAW CUTS SHOULD BE UTILIZED TO REMOVE EXISTING CONCRETE AND OR ASPHALT PAVEMENT, IF IN THE PROJECT ENGINEER'S OPINION, PORTIONS OF THE ASPHALT PAVEMENT OR CONCRETE PAVEMENT (CURB & GUTTER) ARE DAMAGED, CONTRACTOR SHALL AT HIS/HER OWN EXPENSE RESTORE THE PAVEMENTS AT A MINIMUM TO THEIR EXISTING CONDITION.
- CONTRACTOR SHALL USE EXTREME CARE IN REMOVING SALVAGED ITEMS EITHER DESIRED BY THE OWNER OR TO BE RE-INSTALLED WITHIN THE PROJECT. OWNER SHALL LIST ALL DESIRED SALVAGED ITEMS WITHIN THE CONSTRUCTION LIMITS AT THE PRE-BID CONFERENCE.
- ALL EXISTING CHAIN LINK FENCE, CONCRETE PAVEMENT, CURB, CURB & GUTTER, PAVEMENTS, ETC. INSIDE THE CONSTRUCTION LIMITS SHALL BE DEMOLISHED AND REMOVED FROM SITE BY CONTRACTOR UNLESS OTHERWISE SHOWN ON THIS PLAN.

SWPPP NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, WATTLES, INLET BARRIERS, ETC. UNTIL PERMANENT VEGETATION/FINAL STABILIZATION IS ESTABLISHED. THIS SHALL INCLUDE THE REMOVAL OF SEDIMENTATION. (NO SEPARATE PAY ITEM).
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EROSION CONTROL MEASURES AFTER PERMANENT VEGETATION (FINAL STABILIZATION) IS ESTABLISHED (NO SEPARATE PAY ITEM).
- THE EROSION CONTROL MEASURES SHOWN ON THIS SWPPP ARE MINIMUM REQUIREMENTS AND MAY NOT BE ALL THAT IS NECESSARY TO CONTROL SEDIMENT RUNOFF. THIS SWPPP IN NO WAY RELIEVES THE CONTRACTOR OF HIS OBLIGATIONS TO MAINTAIN AND CONTROL SEDIMENT RUNOFF AT ALL TIMES.
- WHEN A DISTURBED AREA WILL BE LEFT UNDISTURBED FOR FOURTEEN (14) DAYS OR MORE, THE APPROPRIATE TEMPORARY OR PERMANENT VEGETATIVE PRACTICES SHALL BE IMPLEMENTED WITHIN SEVEN (7) CALENDAR DAYS.
- MDOT STANDARD TEMPORARY EROSION CONTROL MEASURE DETAILS SHALL BE INCORPORATED INTO THE SWPPP AS REQUIRED OR DIRECTED BY THE ENGINEER FOR EROSION & SEDIMENTATION CONTROL. THESE DETAILS INCLUDE THE FOLLOWING: ECD-1 THROUGH ECD-20, EC-1 AND TEC-3, DT-1 AND TEC-2. THESE STANDARD DETAIL DRAWINGS SHALL BE MADE PART HEREOF THESE CONTRACT DRAWINGS AS IF THEY WERE ATTACHED HERETO. COPIES OF THE STANDARD DRAWINGS MAY BE VIEWED AT THE OFFICE OF DUNGAN ENGINEERING, P.A. LOCATED AT 1574 HWY 98 E, COLUMBIA, MS.
- CONTRACTOR SHALL PROVIDE DUST CONTROL TO REASONABLE PRACTICAL AMOUNTS AS NECESSARY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE PROVIDING A WATER TRUCK AND WATER (NO SEPARATE PAY ITEM).

OCTOBER 9, 2020

CONSTRUCTION DOCUMENTS

WBA # 4619

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISED TO CLARIFY DEMO ITEMS BY OWNER	11-13-20

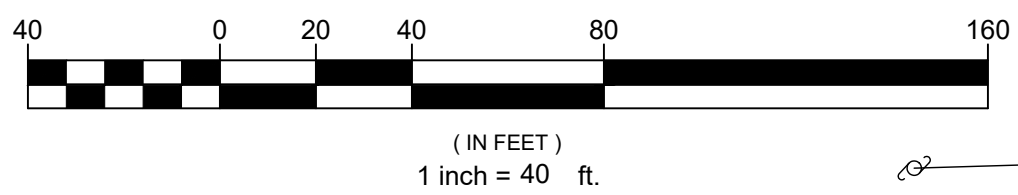




ESTIMATED EARTHWORK CALCULATIONS

TYPE	QUANTITY (CU. YD)
Unclassified Excavation	500
Undercut Excavation	500
Borrow Excavation (Select Fill)	675
Excess Excavation	1,500
Striping Excavation	3,100
Lime Treated Subgrade Area	16,690 sq. yds

GRAPHIC SCALE



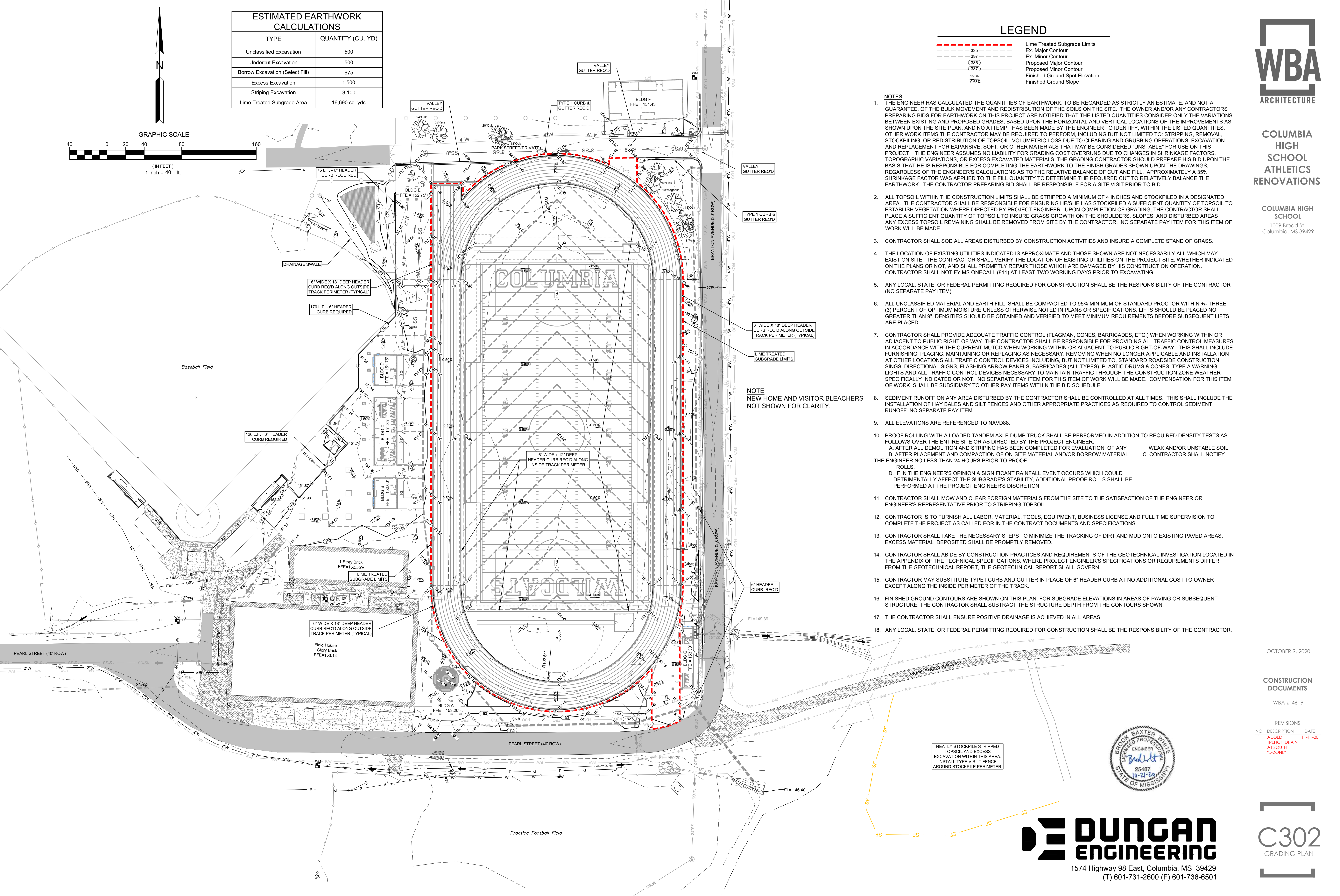
LEGEND

---	Lime Treated Subgrade Limits
---	Ex. Major Contour
---	Ex. Minor Contour
---	Proposed Major Contour
---	Proposed Minor Contour
---	Finished Ground Spot Elevation
---	Finished Ground Slope

NOTES

- THE ENGINEER HAS CALCULATED THE QUANTITIES OF EARTHWORK, TO BE REGARDED AS STRICTLY AN ESTIMATE, AND NOT A GUARANTEE, OF THE BULK MOVEMENT AND REDISTRIBUTION OF THE SOILS ON THE SITE. THE OWNER AND/OR ANY CONTRACTORS PREPARING BIDS FOR EARTHWORK ON THIS PROJECT ARE NOTIFIED THAT THE LISTED QUANTITIES CONSIDER ONLY THE VARIATIONS BETWEEN EXISTING AND PROPOSED GRADES, BASED UPON THE HORIZONTAL AND VERTICAL LOCATIONS OF THE IMPROVEMENTS AS SHOWN UPON THE SITE PLAN, AND NO ATTEMPT HAS BEEN MADE BY THE ENGINEER TO IDENTIFY, WITHIN THE LISTED QUANTITIES, OTHER WORK ITEMS THE CONTRACTOR MAY BE REQUIRED TO PERFORM, INCLUDING BUT NOT LIMITED TO: STRIPPING, REMOVAL, STOCKPILING, OR REDISTRIBUTION OF TOPSOIL, VOLUMETRIC LOSS DUE TO CLEARING AND GRUBBING OPERATIONS, EXCAVATION AND REPLACEMENT FOR EXPANSIVE, SOFT, OR OTHER MATERIALS THAT MAY BE CONSIDERED "UNSTABLE" FOR USE ON THIS PROJECT. THE ENGINEER ASSUMES NO LIABILITY FOR GRADING COST OVERRUNS DUE TO CHANGES IN SHRINKAGE FACTORS, TOPOGRAPHIC VARIATIONS, OR EXCESS EXCAVATED MATERIALS. THE GRADING CONTRACTOR SHOULD PREPARE HIS BID UPON THE BASIS THAT HE IS RESPONSIBLE FOR COMPLETING THE EARTHWORK TO THE FINISH GRADES SHOWN UPON THE DRAWINGS, REGARDLESS OF THE ENGINEER'S CALCULATIONS AS TO THE RELATIVE BALANCE OF CUT AND FILL. APPROXIMATELY A 35% SHRINKAGE FACTOR WAS APPLIED TO THE FILL QUANTITY TO DETERMINE THE REQUIRED CUT TO RELATIVELY BALANCE THE EARTHWORK. THE CONTRACTOR PREPARING BID SHALL BE RESPONSIBLE FOR A SITE VISIT PRIOR TO BID.
- ALL TOPSOIL WITHIN THE CONSTRUCTION LIMITS SHALL BE STRIPPED A MINIMUM OF 4 INCHES AND STOCKPILED IN A DESIGNATED AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING HE HAS STOCKPILED A SUFFICIENT QUANTITY OF TOPSOIL TO ESTABLISH VEGETATION WHERE DIRECTED BY PROJECT ENGINEER. UPON COMPLETION OF GRADING, THE CONTRACTOR SHALL PLACE A SUFFICIENT QUANTITY OF TOPSOIL TO INSURE GRASS GROWTH ON THE SHOULDERS, SLOPES, AND DISTURBED AREAS. ANY EXCESS TOPSOIL REMAINING SHALL BE REMOVED FROM SITE BY THE CONTRACTOR. NO SEPARATE PAY ITEM FOR THIS ITEM OF WORK WILL BE MADE.
- CONTRACTOR SHALL SOD ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND INSURE A COMPLETE STAND OF GRASS.
- THE LOCATION OF EXISTING UTILITIES INDICATED IS APPROXIMATE AND THOSE SHOWN ARE NOT NECESSARILY ALL WHICH MAY EXIST ON SITE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES ON THE PROJECT SITE, WHETHER INDICATED ON THE PLANS OR NOT, AND SHALL PROMPTLY REPAIR THOSE WHICH ARE DAMAGED BY HIS CONSTRUCTION OPERATION. CONTRACTOR SHALL NOTIFY MS ONECALL (811) AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING.
- ANY LOCAL, STATE, OR FEDERAL PERMITTING REQUIRED FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (NO SEPARATE PAY ITEM).
- ALL UNCLASSIFIED MATERIAL AND EARTH FILL SHALL BE COMPACTED TO 95% MINIMUM OF STANDARD PROCTOR WITHIN +/- THREE (3) PERCENT OF OPTIMUM MOISTURE UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS. LIFTS SHOULD BE PLACED NO GREATER THAN 9". DENSITIES SHOULD BE OBTAINED AND VERIFIED TO MEET MINIMUM REQUIREMENTS BEFORE SUBSEQUENT LIFTS ARE PLACED.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL (FLAGMAN, CONES, BARRICADES, ETC.) WHEN WORKING WITHIN OR ADJACENT TO PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE CURRENT MUTCD WHEN WORKING WITHIN OR ADJACENT TO PUBLIC RIGHT-OF-WAY. THIS SHALL INCLUDE FURNISHING, PLACING, MAINTAINING OR REPLACING AS NECESSARY, REMOVING WHEN NO LONGER APPLICABLE AND INSTALLATION AT OTHER LOCATIONS ALL TRAFFIC CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO, STANDARD ROADSIDE CONSTRUCTION SIGNS, DIRECTIONAL SIGNS, FLASHING ARROW PANELS, BARRICADES (ALL TYPES), PLASTIC DRUMS & CONES, TYPE A WARNING LIGHTS AND ALL TRAFFIC CONTROL DEVICES NECESSARY TO MAINTAIN TRAFFIC THROUGH THE CONSTRUCTION ZONE WEATHER SPECIFICALLY INDICATED OR NOT. NO SEPARATE PAY ITEM FOR THIS ITEM OF WORK WILL BE MADE. COMPENSATION FOR THIS ITEM OF WORK SHALL BE SUBSIDIARY TO OTHER PAY ITEMS WITHIN THE BID SCHEDULE.
- SEDIMENT RUNOFF ON ANY AREA DISTURBED BY THE CONTRACTOR SHALL BE CONTROLLED AT ALL TIMES. THIS SHALL INCLUDE THE INSTALLATION OF HAY BALES AND SILT FENCES AND OTHER APPROPRIATE PRACTICES AS REQUIRED TO CONTROL SEDIMENT RUNOFF. NO SEPARATE PAY ITEM.
- ALL ELEVATIONS ARE REFERENCED TO NAVD83.
- PROOF ROLLING WITH A LOADED TANDEM AXLE DUMP TRUCK SHALL BE PERFORMED IN ADDITION TO REQUIRED DENSITY TESTS AS FOLLOWS OVER THE ENTIRE SITE OR AS DIRECTED BY THE PROJECT ENGINEER.
 - AFTER ALL DEMOLITION AND STRIPING HAS BEEN COMPLETED FOR EVALUATION OF ANY WEAK AND/OR UNSTABLE SOIL
 - AFTER PLACEMENT AND COMPACTION OF ON-SITE MATERIAL AND/OR BORROW MATERIAL
 - CONTRACTOR SHALL NOTIFY THE ENGINEER NO LESS THAN 24 HOURS PRIOR TO PROOF ROLLS.
 - IF IN THE ENGINEER'S OPINION A SIGNIFICANT RAINFALL EVENT OCCURS WHICH COULD DETRIMENTALLY AFFECT THE SUBGRADE'S STABILITY, ADDITIONAL PROOF ROLLS SHALL BE PERFORMED AT THE PROJECT ENGINEER'S DISCRETION.
- CONTRACTOR SHALL MOW AND CLEAR FOREIGN MATERIALS FROM THE SITE TO THE SATISFACTION OF THE ENGINEER OR ENGINEER'S REPRESENTATIVE PRIOR TO STRIPPING TOPSOIL.
- CONTRACTOR IS TO FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, BUSINESS LICENSE AND FULL TIME SUPERVISION TO COMPLETE THE PROJECT AS CALLED FOR IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO MINIMIZE THE TRACKING OF DIRT AND MUD ONTO EXISTING PAVED AREAS. EXCESS MATERIAL DEPOSITED SHALL BE PROMPTLY REMOVED.
- CONTRACTOR SHALL ABIDE BY CONSTRUCTION PRACTICES AND REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION LOCATED IN THE APPENDIX OF THE TECHNICAL SPECIFICATIONS. WHERE PROJECT ENGINEER'S SPECIFICATIONS OR REQUIREMENTS DIFFER FROM THE GEOTECHNICAL REPORT, THE GEOTECHNICAL REPORT SHALL GOVERN.
- CONTRACTOR MAY SUBSTITUTE TYPE I CURB AND GUTTER IN PLACE OF 6" HEADER CURB AT NO ADDITIONAL COST TO OWNER EXCEPT ALONG THE INSIDE PERIMETER OF THE TRACK.
- FINISHED GROUND CONTOURS ARE SHOWN ON THIS PLAN. FOR SUBGRADE ELEVATIONS IN AREAS OF PAVING OR SUBSEQUENT STRUCTURE, THE CONTRACTOR SHALL SUBTRACT THE STRUCTURE DEPTH FROM THE CONTOURS SHOWN.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS ACHIEVED IN ALL AREAS.
- ANY LOCAL, STATE, OR FEDERAL PERMITTING REQUIRED FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE
NEW HOME AND VISITOR BLEACHERS
NOT SHOWN FOR CLARITY.



OCTOBER 9, 2020

**CONSTRUCTION
DOCUMENTS**

WBA # 4619

REVISIONS

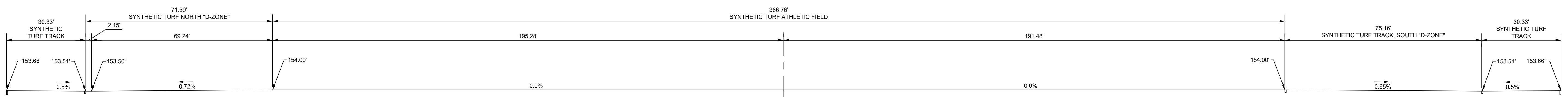
NO.	DESCRIPTION	DATE
1	ADDED TRENCH DRAIN AT SOUTH "D-ZONE"	11-11-20



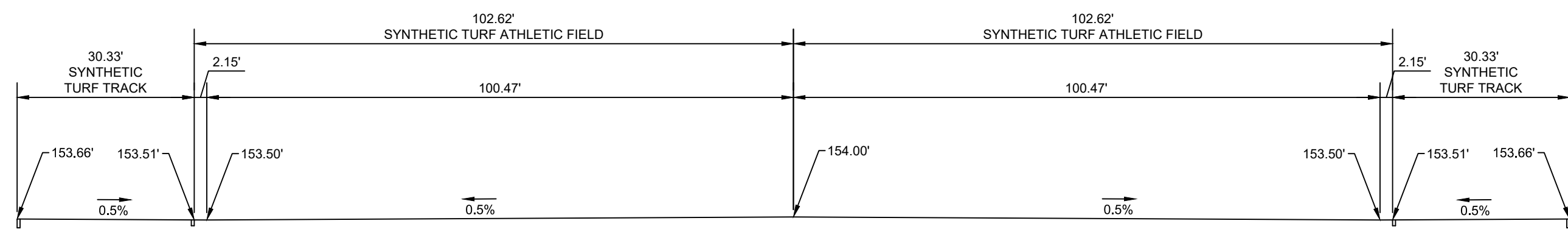
**DUNGAN
ENGINEERING**

1574 Highway 98 East, Columbia, MS 39429
(T) 601-731-2600 (F) 601-736-6501

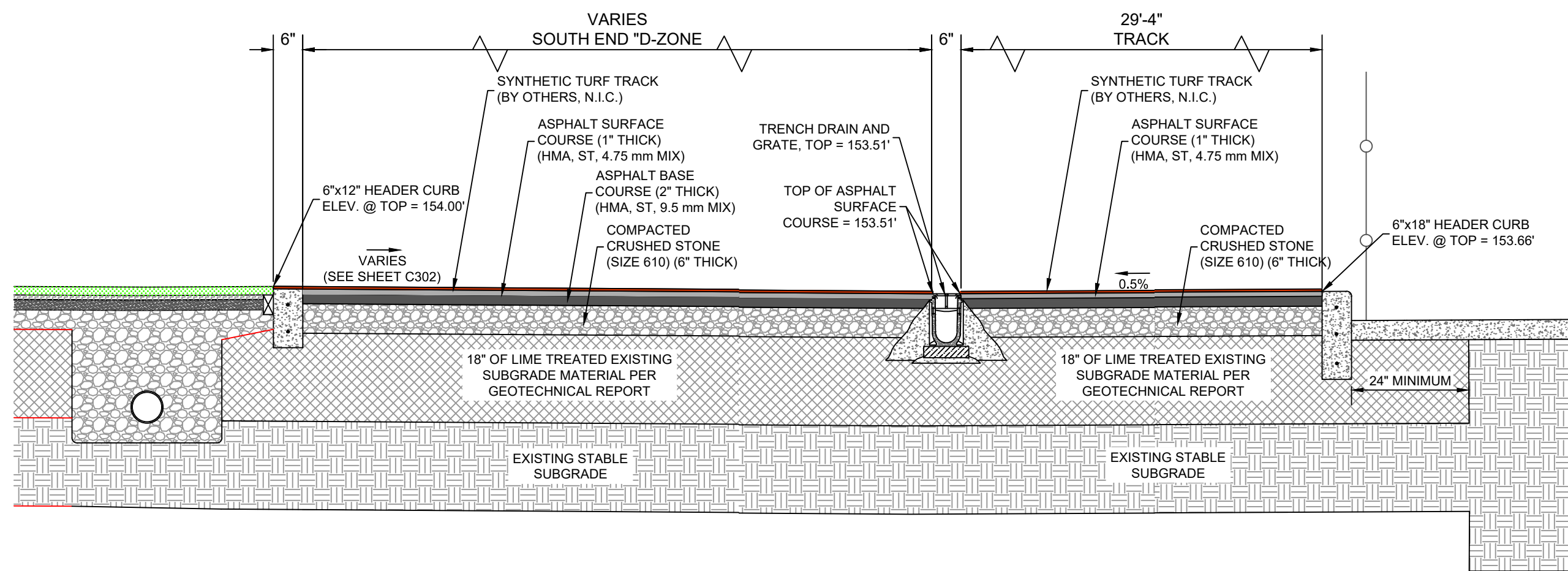
C302
GRADING PLAN



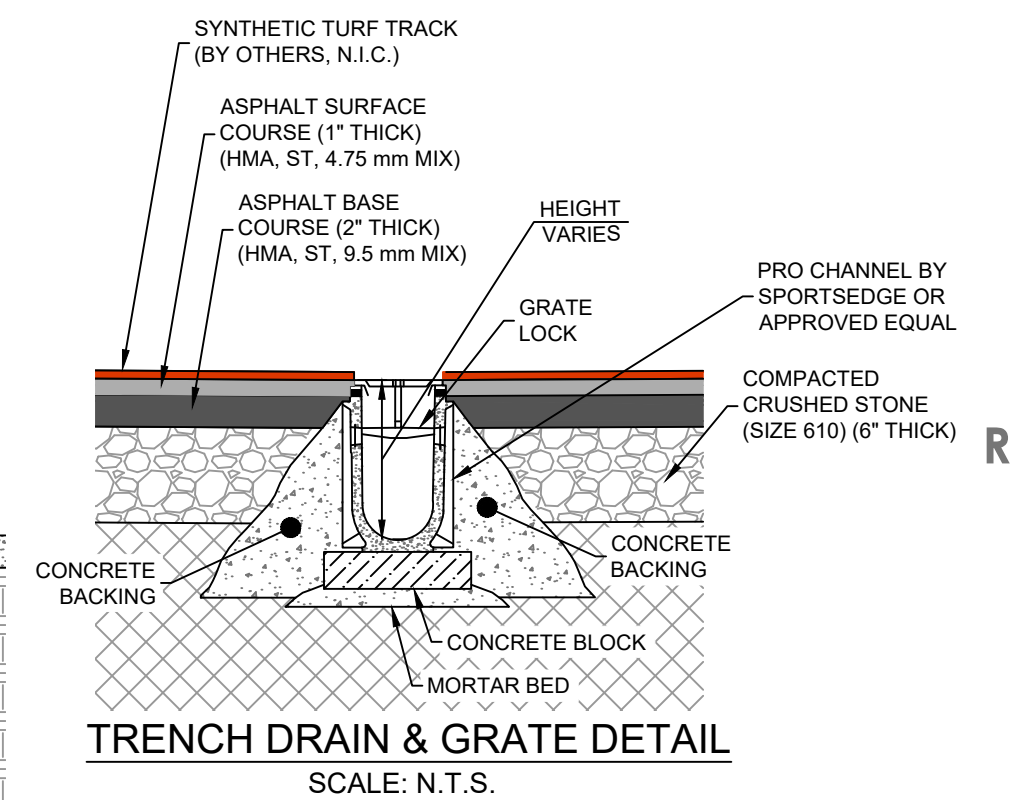
NEW SYNTHETIC TURF TRACK & FIELD PROFILE (NORTH & SOUTH)
SCALE: 1" = 20'



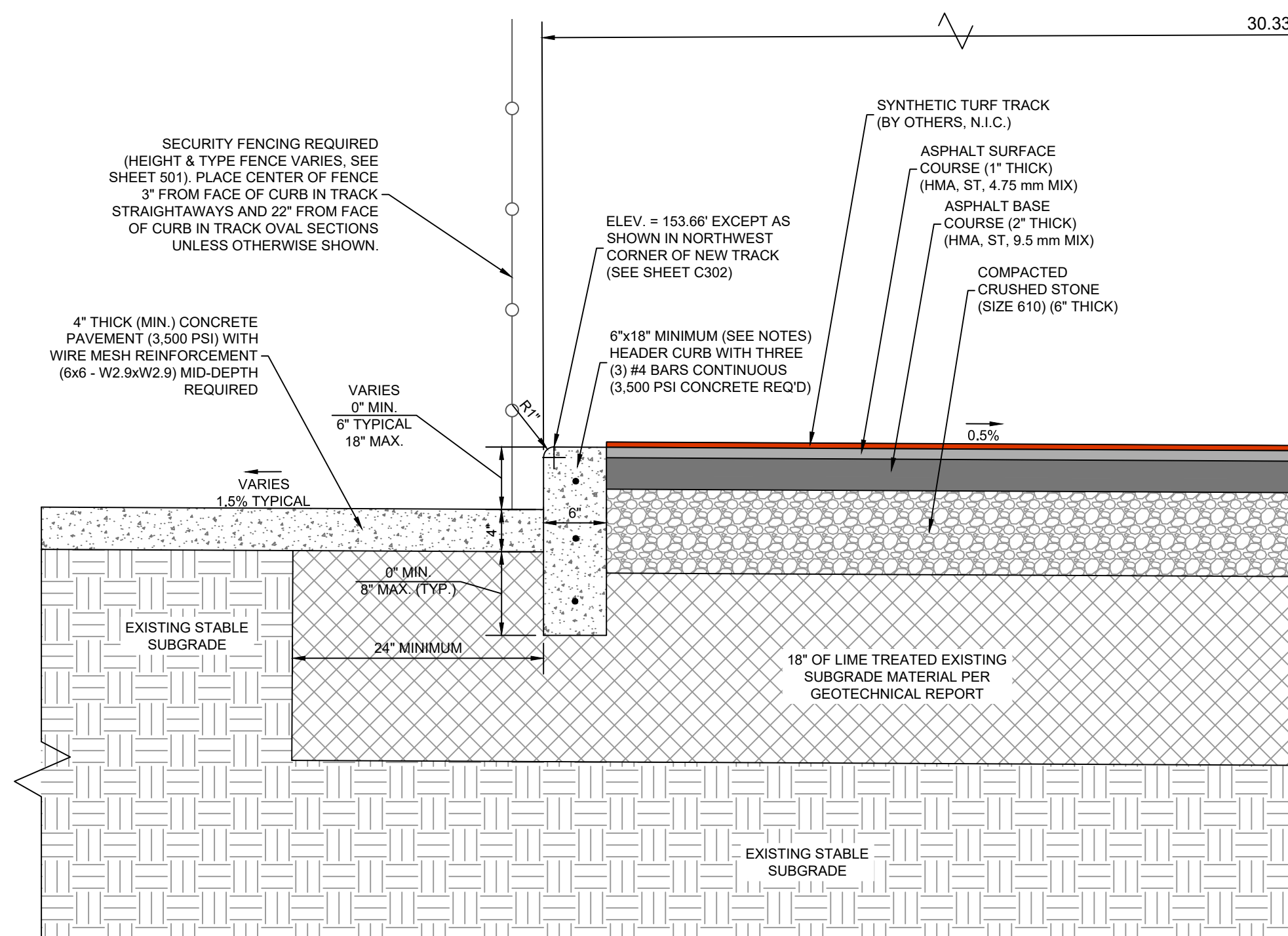
NEW SYNTHETIC TURF TRACK & FIELD PROFILE (EAST & WEST)
SCALE: 1" = 20'



SOUTH END "D-ZONE" TYPICAL SECTION
SCALE: 1" = 2'-0"

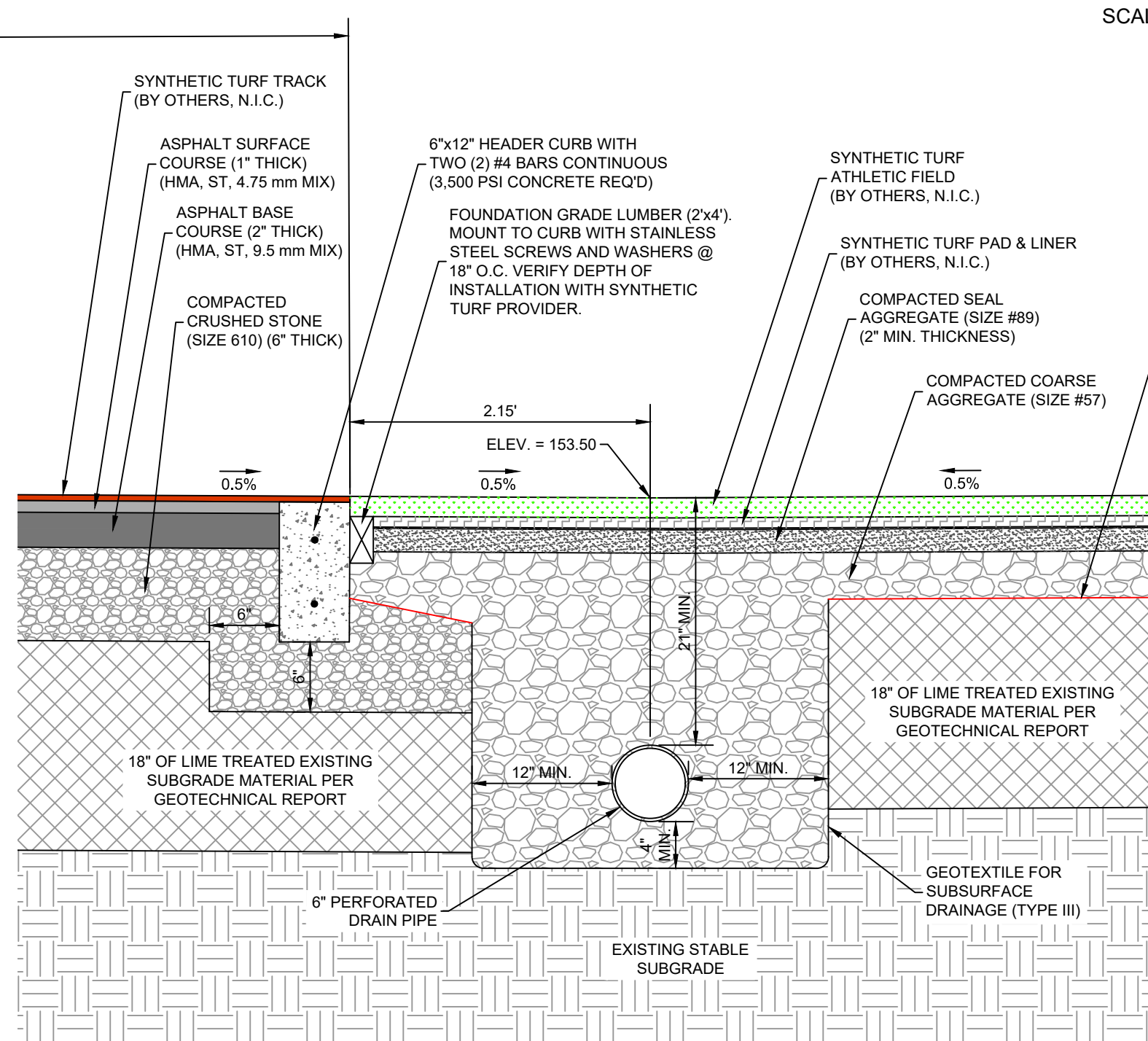


- NOTES
- TRENCH DRAIN AND GRATE FOR "D-ZONE" SHALL BE SPORTSEGE - PRO IT TRENCH DRAIN & GRATE OR APPROVED EQUAL. SEE SHEET C301 FOR INVERT ELEVATIONS AND GRADES.
 - MATERIALS AND INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

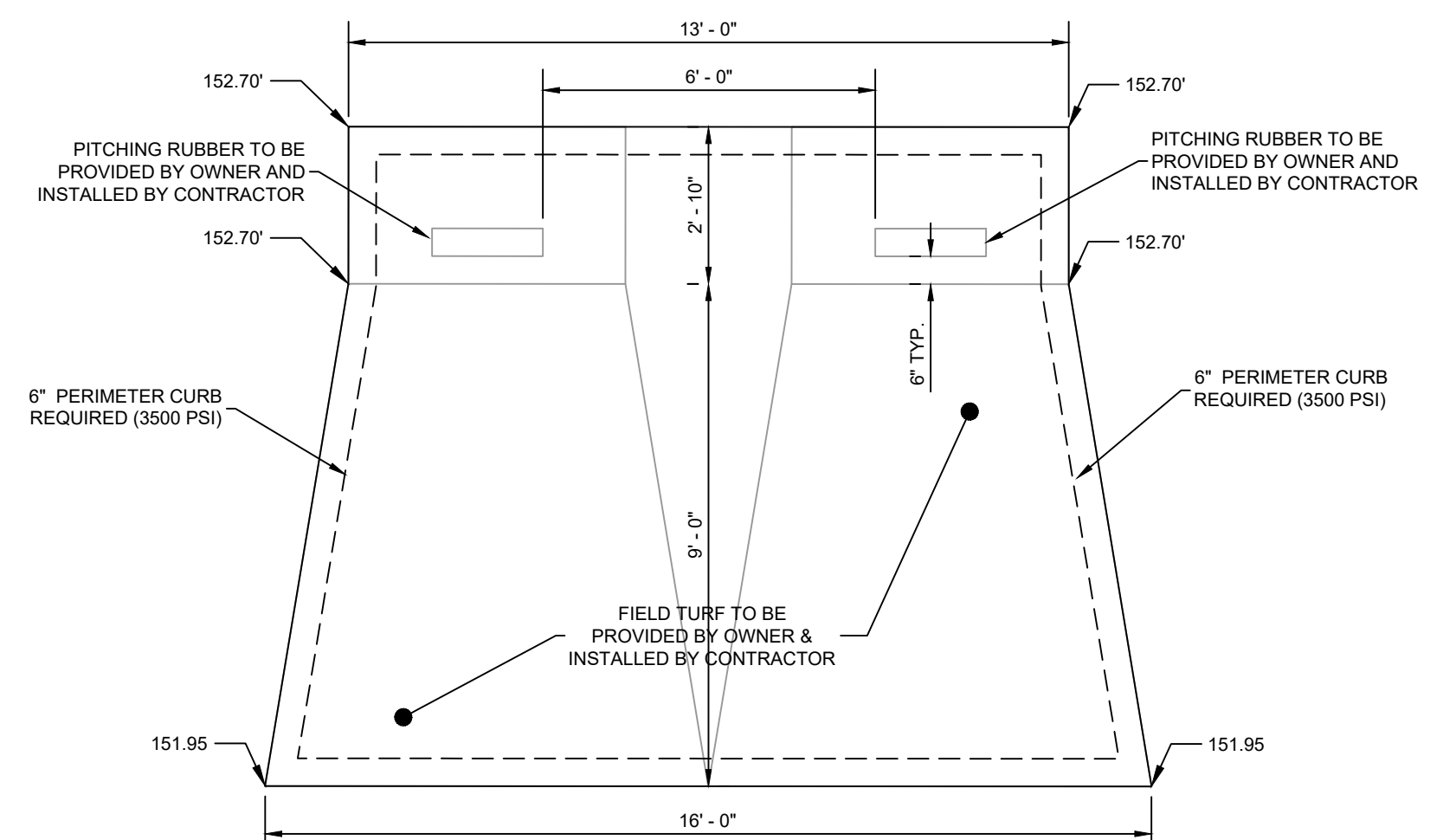


EXTERIOR TRACK CURB SECTION
SCALE: 1" = 1'-0"

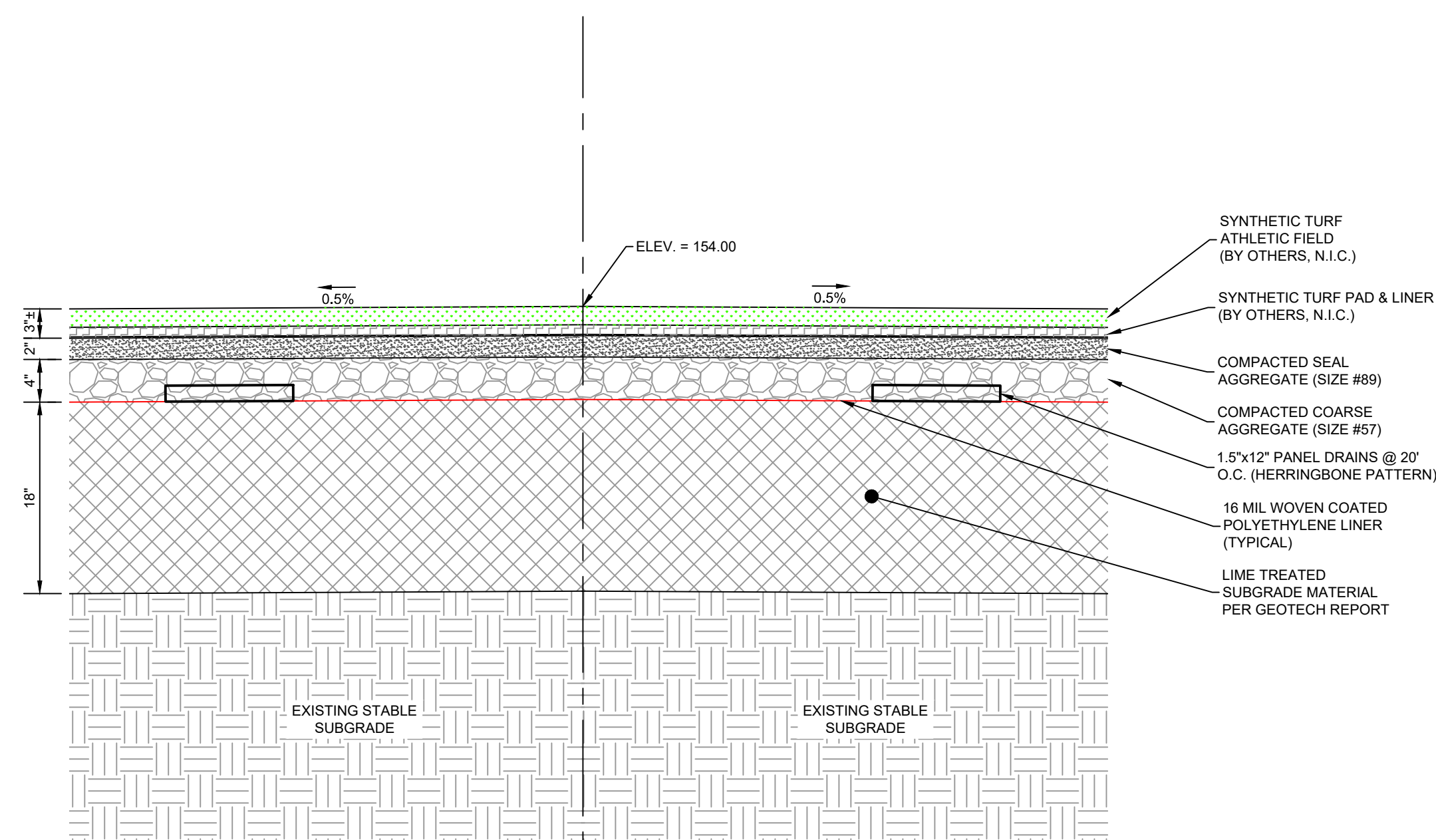
- NOTES
- ALL EXPOSED CONCRETE CURB FACES SHALL BE RUBBED WITH GROUT PROVIDING A NEAT UNIFORM APPEARANCE.
 - WITHIN THE SITE, SMALL PORTIONS OF HEADER CURB MAY BE REQUIRED TO BE GREATER THAN 18" TALL. REFER TO SHEETS C302 AND C501.
 - ALL FENCING SHALL BE BLACK IN COLOR. PORTIONS OF FENCE SHALL BE WROUGHT IRON (REFERENCE ARCHITECTURAL SPECIFICATIONS) AND PORTIONS OF THE FENCE SHALL BE BLACK VINYL COATED STEEL CHAIN LINK (REFERENCE CIVIL SPECIFICATIONS).



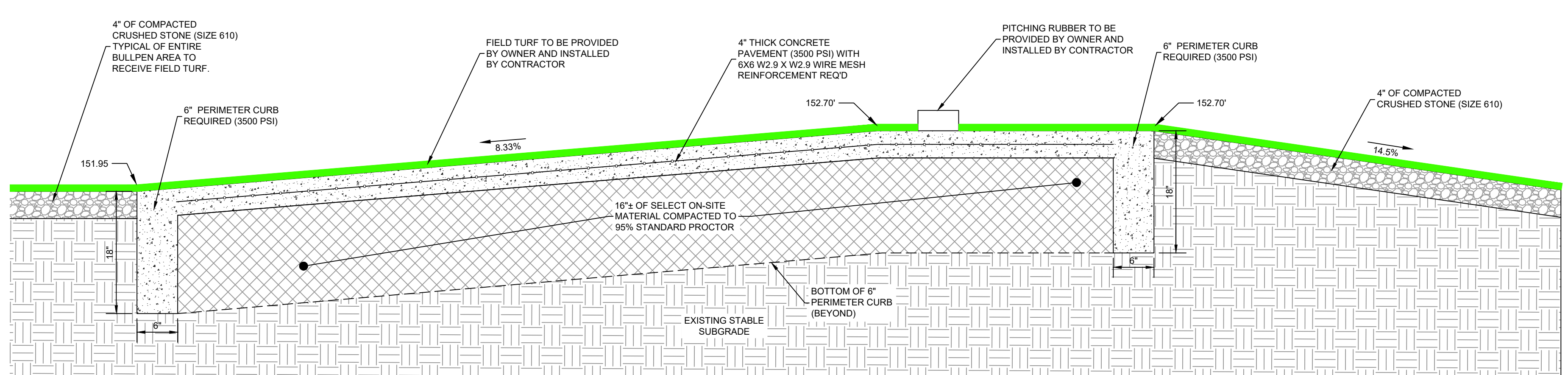
INTERIOR TRACK/FIELD CURB PERIMETER DRAIN SECTION
SCALE: 1" = 1'-0"



BULLPEN PITCHER'S MOUND DETAIL (PLAN)
SCALE: 1" = 3'



ATHLETIC FIELD TYPICAL SECTION
SCALE: 1" = 1'-0"



BULLPEN PITCHER'S MOUND DETAIL (SECTION)
SCALE: 1" = 1'-0"



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COLUMBIA
HIGH
SCHOOL
ATHLETICS
RENOVATIONS

COLUMBIA HIGH
SCHOOL
1009 Broad St.
Columbia, MS 39429

OCTOBER 9, 2020

CONSTRUCTION
DOCUMENTS

WBA # 4619

REVISIONS
NO. DESCRIPTION DATE

C303
GRADING/DRAINAGE
PROFILES &
SECTIONS

LEGEND

---	337	Ex. Major Contour
---	336	Ex. Minor Contour
---	337	Proposed Major Contour
---	336	Proposed Minor Contour
---	337	Proposed 4' Tall Vinyl Coate Chain Link Fence (Black)
---	336	Proposed 4' Tall Wrought Iron Fence (Black)
---	337	Proposed 6' Tall Vinyl Coated Chain Link Fence (Black)
---	336	Proposed 6' Tall Wrought Iron Fence (Black)
---	337	Finished Ground Spot Elevation
---	336	Finished Ground Back of Curb Spot Elevation
---	337	Proposed Athletic Field Turf (See Arch. Specifications)
---	336	Proposed Track Turf (See Arch. Specifications)
---	337	Proposed Concrete Pavement
---	336	Existing Concrete Pavement
---	337	Proposed Landscaped Area
---	336	Proposed Asphalt Pavement
---	337	Existing Asphalt Pavement

PAVING NOTES

- CONTRACTOR SHALL INSTALL ALL 6" HEADER CURB AND CURB & GUTTER BEFORE COMMENCING ASPHALT/CONCRETE PAVING OPERATIONS.
- CONTRACTOR SHALL SATISFY PROJECT ENGINEER AND OWNER OF STABILITY AND COMPACTION OF EXISTING SUBGRADE PRIOR TO COMMENCING PAVING OPERATIONS. AT A MINIMUM THE SUBGRADE MATERIAL SHALL BE PROOF ROLLED WITH A LOADED, TANDEM AXLE DUMP TRUCK. FAILED AREAS, AS DETERMINED BY PROJECT ENGINEER OR HIS REPRESENTATIVE SHALL BE REMOVED AND REPLACED BY CONTRACTOR. NOTIFY THE PROJECT ENGINEER OR HIS REPRESENTATIVE A MINIMUM OF 24 HOURS BEFORE PROOF ROLL.
- ALL CONCRETE SURFACES SHALL RECEIVE A MEDIUM BROOM FINISH UNLESS OTHERWISE DIRECTED BY THE PROJECT ARCHITECT.

JOINTING NOTES:

- CONTRACTOR SHALL PROVIDE PROJECT ENGINEER A PROPOSED JOINTING PLAN AND RECEIVE APPROVAL OF SAME BEFORE COMMENCING CONCRETE PAVING OPERATIONS. CONTRACTOR SHALL PLAN POURS TO ENSURE THAT CONSTRUCTION JOINTS ARE PROVIDED AT LOCATIONS OF ISOLATION OR CONTRACTION JOINTS.
- ALL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI-308R-08 OR SECTION 3.07 IN THE NRMCA GUIDE SPECIFICATIONS.
- ISOLATION JOINTS SHALL BE APPLIED ADJACENT TO EXISTING PAVEMENT AND FIXED STRUCTURES, SUCH AS DRAINAGE INLETS, MANHOLES, LIGHTING STRUCTURES, FOOTINGS, EXISTING PAVEMENT SLABS, ETC. AND AS NOTED ON PLANS.
- JOINTS ARE TO ENTER CURVED EDGES WITH PERPENDICULAR CUTS.
- JOINTS SHALL BE CUT WITHIN TWELVE (12) HOURS OF FINISHING CONCRETE.
- CONTRACTION JOINTS SHALL BE 1/4 OF THE PAVEMENT THICKNESS DEPTH. THE WIDTH OF THE CUT SHOULD BE APPROXIMATELY 1/8 INCH FOR UNSEALED JOINTS AND 1/4 INCH FOR SEALED JOINTS.
- CONTRACTOR SHALL INSTALL CONTRACTION JOINTS AT THE END OF ONE PLACEMENT AND THE BEGINNING OF A SECOND PLACEMENT. LOCATION SHALL BE PLANNED AS NOTED IN NOTE 1 ABOVE.
- CONTRACTOR SHALL PROVIDE A THICKENED PAVEMENT EDGE AT BOTH SIDES OF ALL CONSTRUCTION JOINTS. THICKENED EDGE SHALL BE 20% OF SLAB THICKNESS OR 2 INCHES, WHICHEVER IS GREATER.
- PROVIDE THICKENED EDGES AT ALL AREAS WHERE CONCRETE TERMINATES AND WHERE SHOWN ON PLAN.
- CONTRACTOR SHALL CONTINUE CONTRACTION JOINTS THROUGH CURB TO HELP ELIMINATE SYMPATHY CRACKS.
- PROVIDE A PREFORMED JOINT FILLER MATERIAL OCCUPIES THE GAP BETWEEN STRUCTURES AND PAVEMENT. FILLER MATERIAL IS A BITUMEN-TREATED FIBER BOARD.
- JOINT SEALER SHALL BE APPLIED ABOVE THE FILLER MATERIAL AND AT EACH CONTRACTION JOINT.
- MAXIMUM JOINT SPACING FOR NEW CONCRETE PAVEMENT IS TWO POINT FIVE (2.5) TIMES PAVEMENT THICKNESS IN ANY DIRECTION. IN IRREGULAR SECTIONS/RUNS, JOINTS SHOULD BE EVENLY SPACED NOT TO EXCEED TWO POINT FIVE (2.5) TIMES PAVEMENT THICKNESS IN ANY DIRECTION.
- IF CURB IS NOT POURED INTEGRALLY WITH SLAB, A CONSTRUCTION JOINT WILL BE REQUIRED.

STRIPING NOTES:

- ASPHALT/CONCRETE SURFACES SHALL BE CLEAN AND DRY BEFORE RECEIVING STRIPING.
- STRIPING (GENERAL PARKING): APPLY TOP COAT OF SHERWIN WILLIAMS PROMAR TRAFFIC MARKING PAINT WHITE TM5712 OR EQUAL.
- STRIPING (HANDICAP PARKING): APPLY TOP COAT OF SHERWIN WILLIAMS PROMAR TRAFFIC MARKING PAINT "H.C." BLUE OR EQUAL.
- ALL STRIPING TO BE AT LEAST 4" WIDE.
- ALL NEW PAVEMENTS SHALL BE ALLOWED TO CURE AS PER RECOMMENDATIONS OF THE PAINT MANUFACTURER. CONTRACTOR SHALL PROVIDE GUIDES AND TEMPLATES AS REQUIRED TO PROVIDE A COMPLETE AND FINISHED STRIPING SURFACE.
- PAINT SHALL BE APPLIED AT A RATE NOT LESS THAN 105 SQ. FT PER GALLON.
- HANDICAP SYMBOL SHALL BE PAINTED WHITE ON A BLUE BACKGROUND.
- BLUE COLOR SHALL MATCH NO. 15090 IN THE FEDERAL STANDARD 595B AS SPECIFIED IN SECTION 522(B)2.

ESTIMATED PAVING QUANTITIES

TYPE	QUANTITY
4" Thick Concrete Pavement (3500 psi)	5,700 s.y.
5" Thick Concrete Pavement (3500 psi)	171 s.y.
6" Thick Concrete Pavement (3500 psi)	166 s.y.
Combination Curb & Gutter (Type I Modified)(3500 psi)	277 l.f.
6" Header Curb (3500 psi)	3,387 l.f.
Valley Gutter (3500 psi)	161 l.f.
Crushed Stone (Size 610) (Base Material)(Track & Streets)	2,145 tons
Crushed Stone (Size 57) (Base Material)(Athletic Field)	1,800 tons
Crushed Stone (Size 89) (Base Material)(Athletic Field)	765 tons
Hot Mix Asphalt, ST, 9.5mm (Base Course)(Track & Streets)	805 tons
Hot Mix Asphalt, SC-T, Type 8 (Surface Course)(Streets)	105 tons
Hot Mix Asphalt, ST, 4.75mm (Surface Course)(Track)	338 tons

ESTIMATED FENCING QUANTITIES

TYPE	QUANTITY
4' Vinyl Coated Chain Link (Black)	947 l.f.
4' Wrought Iron (Black)	303 l.f.
6' Vinyl Coated Chain Link (Black)	1,310 l.f.
6' Wrought Iron (Black)	307 l.f.
4' Vinyl Coated Chain Link Gate (Black)	6 each
6' Vinyl Coated Chain Link Gate (Black)	17 each
4' Wrought Iron Gate (Black)	4 each
6' Wrought Iron Gate (Black)	4 each

OCTOBER 9, 2020

CONSTRUCTION DOCUMENTS

WBA # 4619

REVISIONS

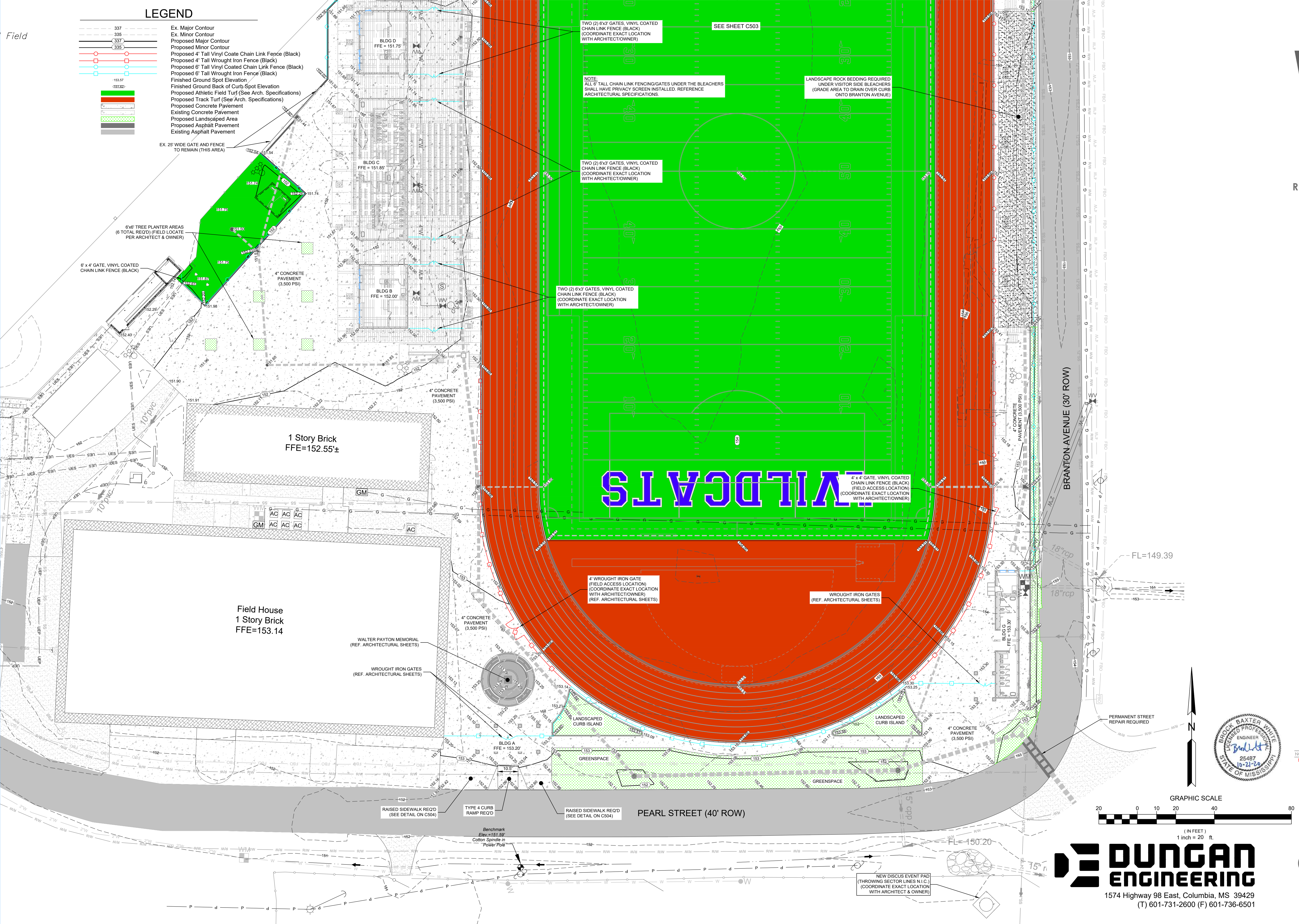
NO.	DESCRIPTION	DATE
1	ADDED TRENCH DRAIN AT SOUTH "D-ZONE"	11-11-20

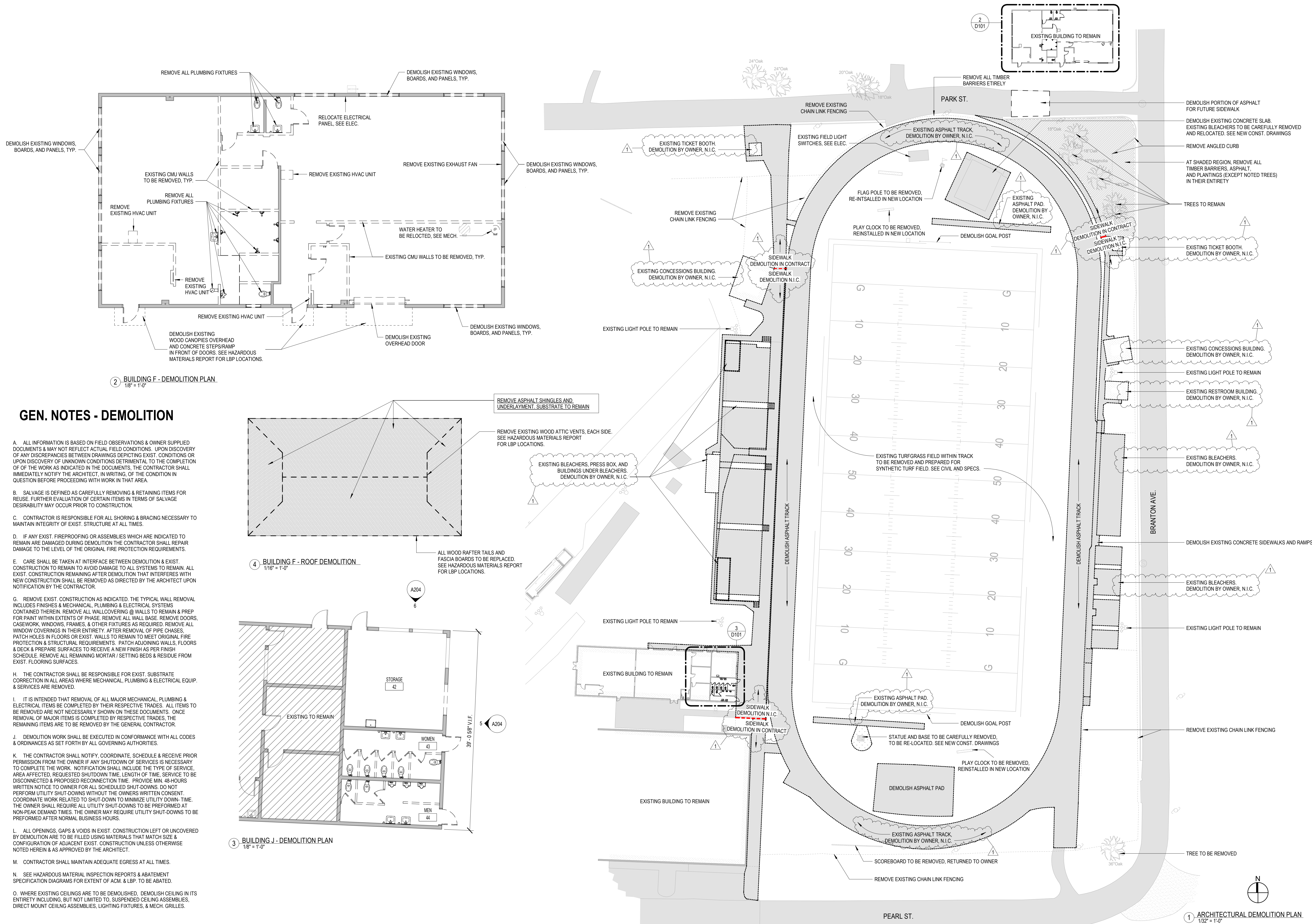


DUNGAN
ENGINEERING

1574 Highway 98 East, Columbia, MS 39429
(T) 601-731-2600 (F) 601-736-6501

C501
OVERALL PAVING
AND FENCING
PLAN







- GENERAL ASSEMBLY NOTES:**
1. SEE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS OF EA. ASSEMBLY ITEM, TYP.
2. COORD. FRAMING W/ STRUCT. DWGS.
3. COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
4. COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
5. SEE FINISH SCHED. FOR INTERIOR FINISH MATERIALS

ROOF ASSEMBLIES:

- TYP. STANDING SEAM ROOF PANEL ASSEMBLY #1 (AT CANOPIES):**
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: SUPERLOK BY MBCI)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING
- TYP. STANDING SEAM ROOF PANEL ASSEMBLY #2 (AT VISITOR ENTRANCE BUILDING):**
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: SUPERLOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

- TYP. STANDING SEAM ROOF PANEL ASSEMBLY #3 (RESTROOM BUILDING UNDER BLEACHERS):**
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

- TYP. STANDING SEAM ROOF PANEL ASSEMBLY #4 - 1 HR. RATED ASSEMBLY U.L. DESIGN NO. M532 (CONCESSIONS BUILDING UNDER BLEACHERS):**
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 3/4" PLYWOOD
- WOOD I-JOISTS (SEE STRUCT.)
- 1/2 RESILIENT CHANNEL
- 2 LAYERS 5/8" TYPE-X GYPSUM BD.

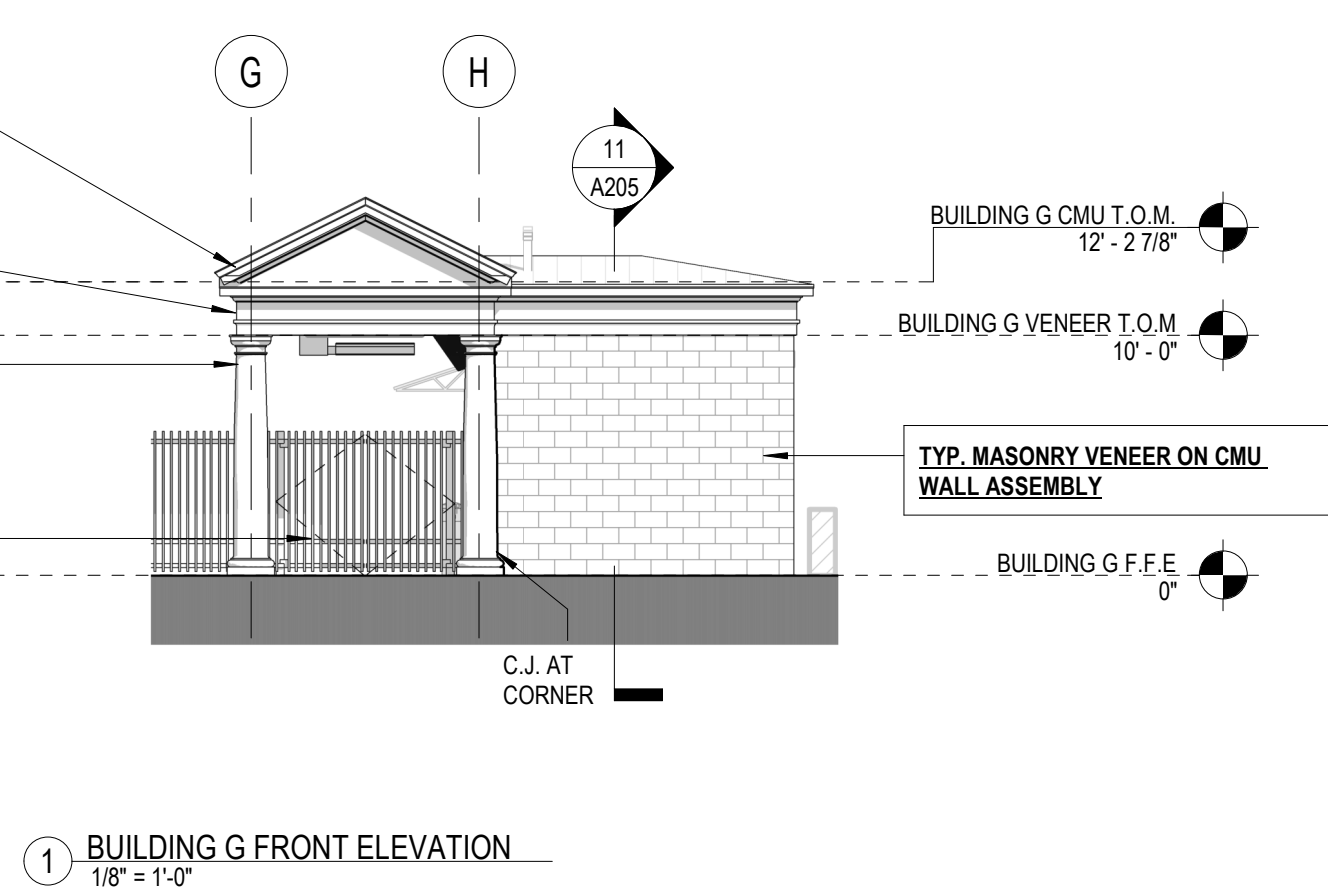
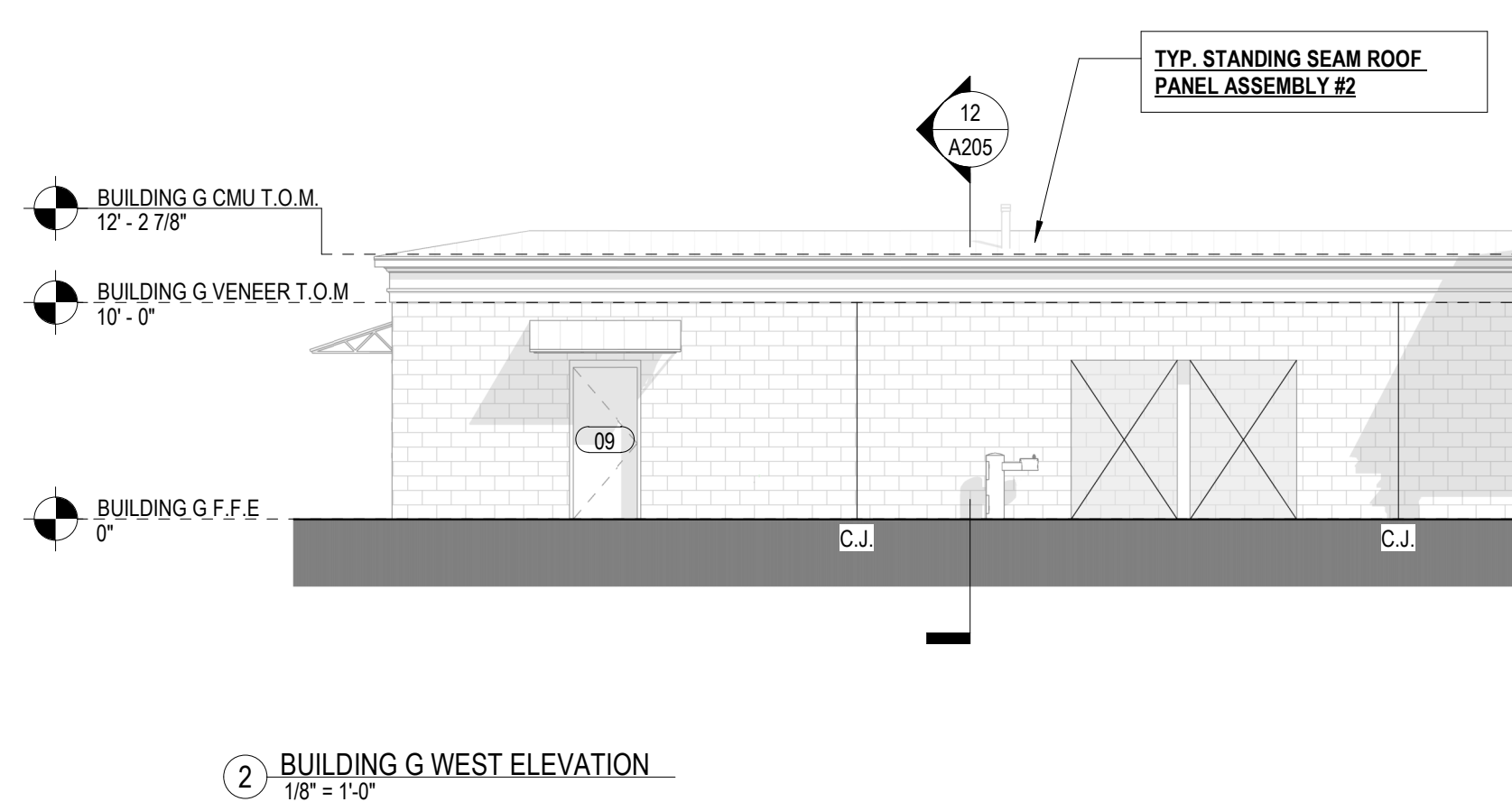
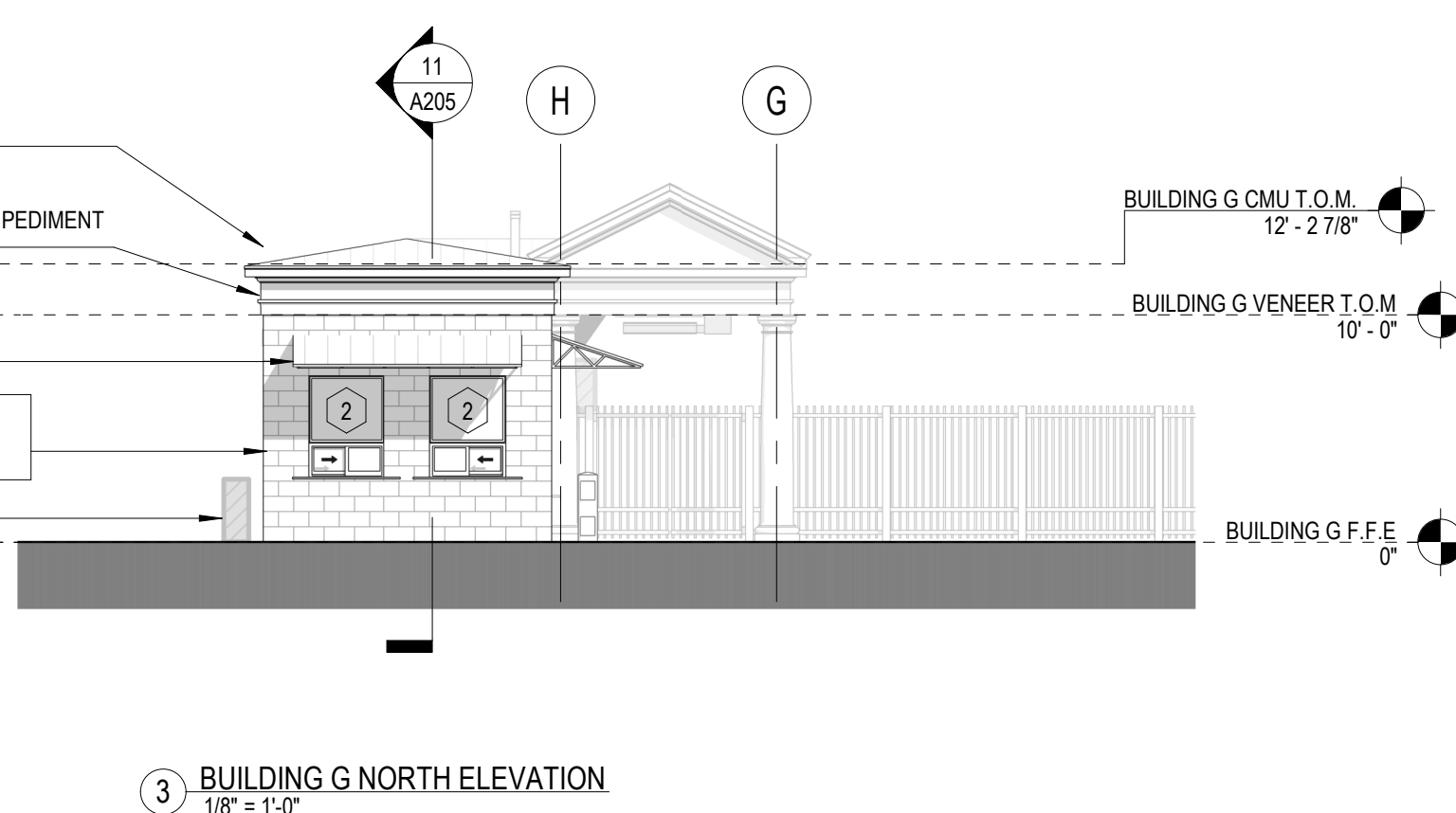
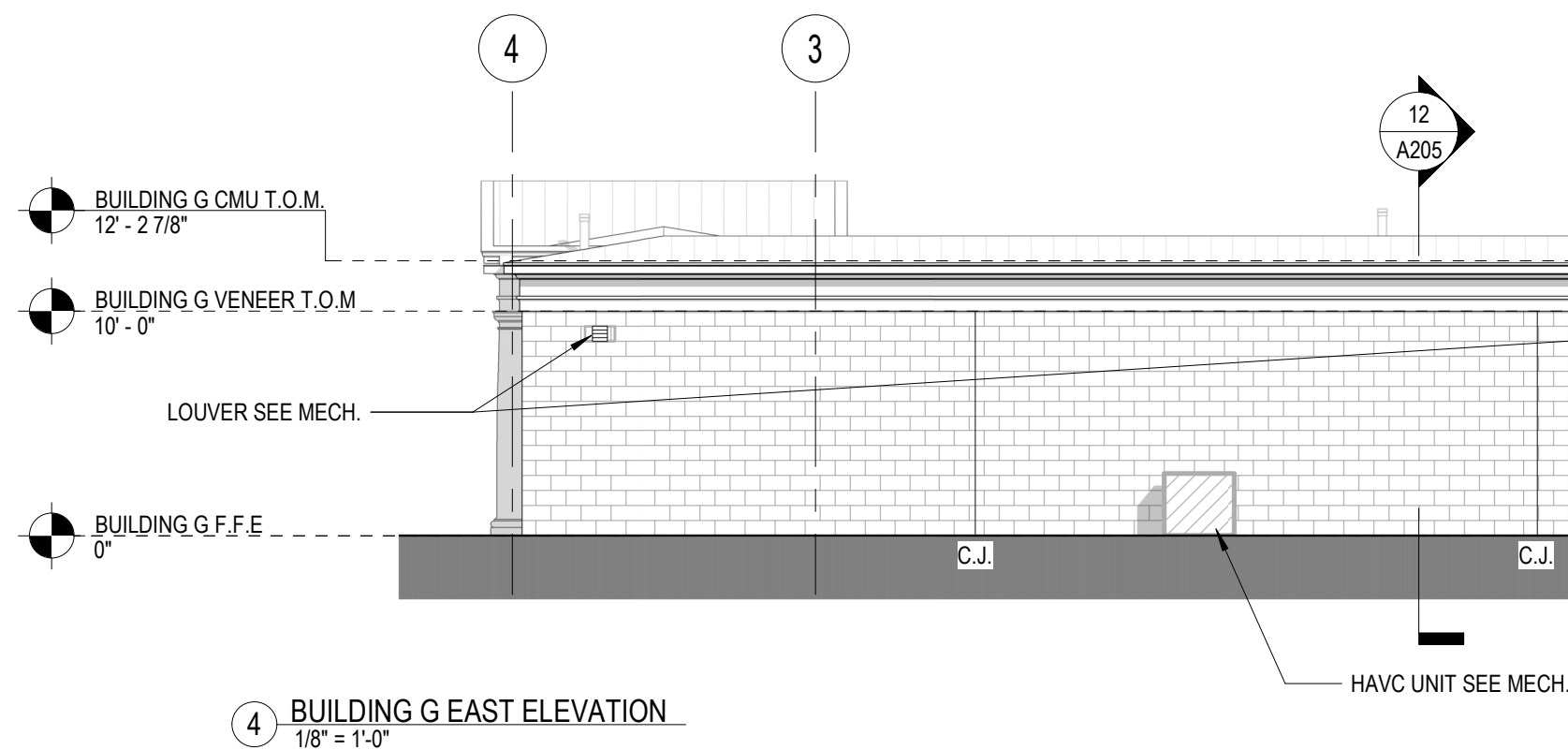
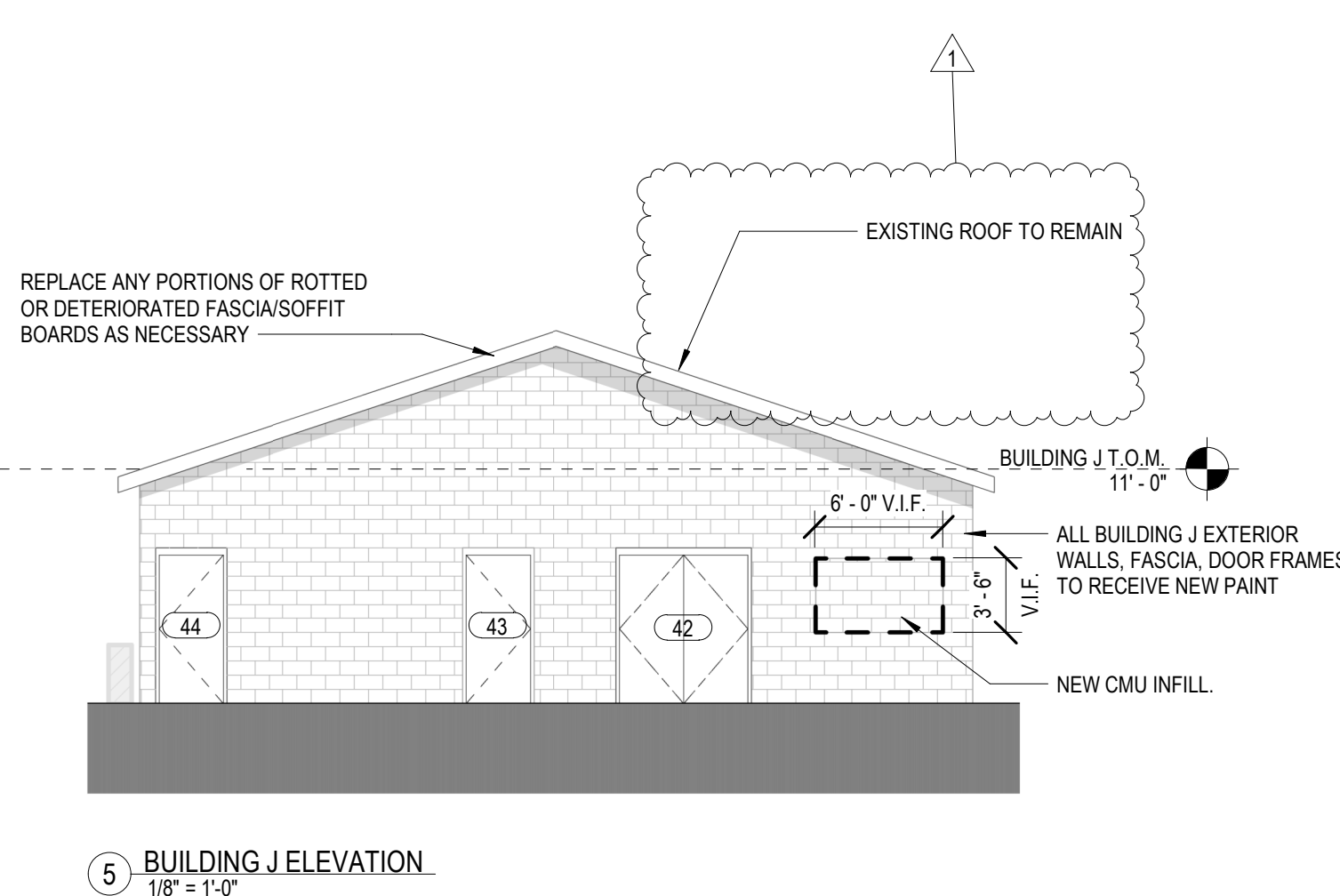
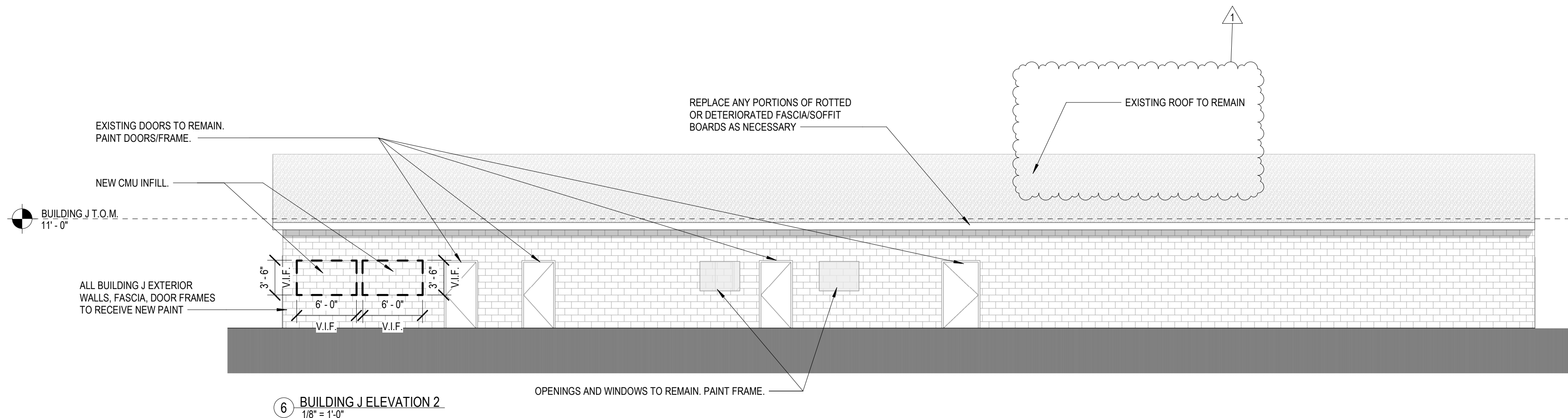
WALL ASSEMBLIES:

- TYP. MASONRY VENEER ON CMU WALL ASSEMBLY**
- CONCRETE MASONRY VENEER (B.O.D.: 4"x8"x16" SMOOTH FACE ARCHITECTURAL UNITS BY NETTLETON CONCRETE INC.)
- 1 7/8" AIR SPACE (BACK FACE OF MASONRY TO FRONT FACE OF INSULATION)
- MASONRY ANCHORS 16" O.C.E.W.
- CONT. RIGID INSULATION (R-13 MIN.)
- WATERPROOFING OR WEATHER BARRIER
- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

- TYP. METAL PANEL ON CMU WALL ASSEMBLY**
- METAL WALL PANELING, INSTALLED HORIZONTALLY (B.O.D.: PBU PANEL BY MBCI)
- CONT. RIGID INSULATION (R-13 MIN.)
- CONT. GALV. STEEL ZEE GIRTS INSTALLED VERTICALLY 36" O.C. (BETWEEN RIGID INSULATION PANELS)
- WATERPROOFING OR WEATHER BARRIER
- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

FOUNDATION ASSEMBLIES:

- TYP. SLAB-ON-GRADE ASSEMBLY**
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
- UNDER SLAB VAPOR BARRIER
- GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
- COMPACTED SUBGRADE



- GENERAL ASSEMBLY NOTES:**
1. SEE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS OF EA. ASSEMBLY ITEM, TYP.
2. COORD. FRAMING W/ STRUCT. DWGS.
3. COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
4. COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
5. SEE FINISH SCHED. FOR INTERIOR FINISH MATERIALS

ROOF ASSEMBLIES:

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #1 (AT CANOPIES):
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: SUPERLOK BY MBCI)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #2 (AT VISITOR ENTRANCE BUILDING):
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: SUPERLOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #3 (RESTROOM BUILDING UNDER BLEACHERS):
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #4 - 1 HR. RATED ASSEMBLY U.L. DESIGN NO. M532 (CONCESSIONS BUILDINGS UNDER BLEACHERS):
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 3/4" PLYWOOD
- WOOD I-JOISTS (SEE STRUCT.)
- 1/2 RESILIENT CHANNEL
- 2 LAYERS 5/8" TYPE-X GYPSUM BD.

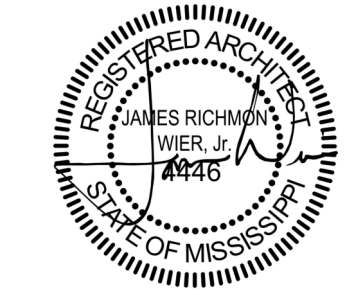
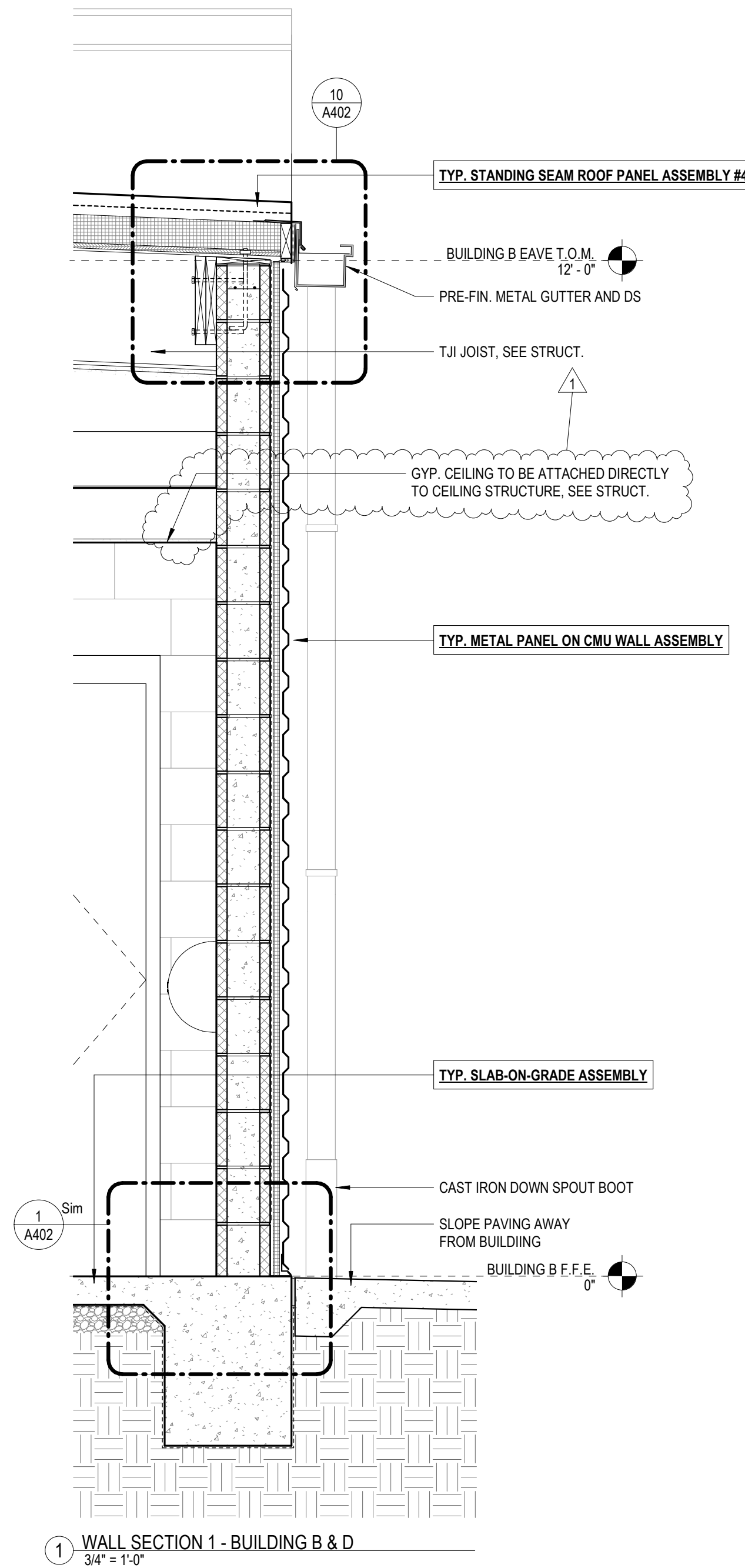
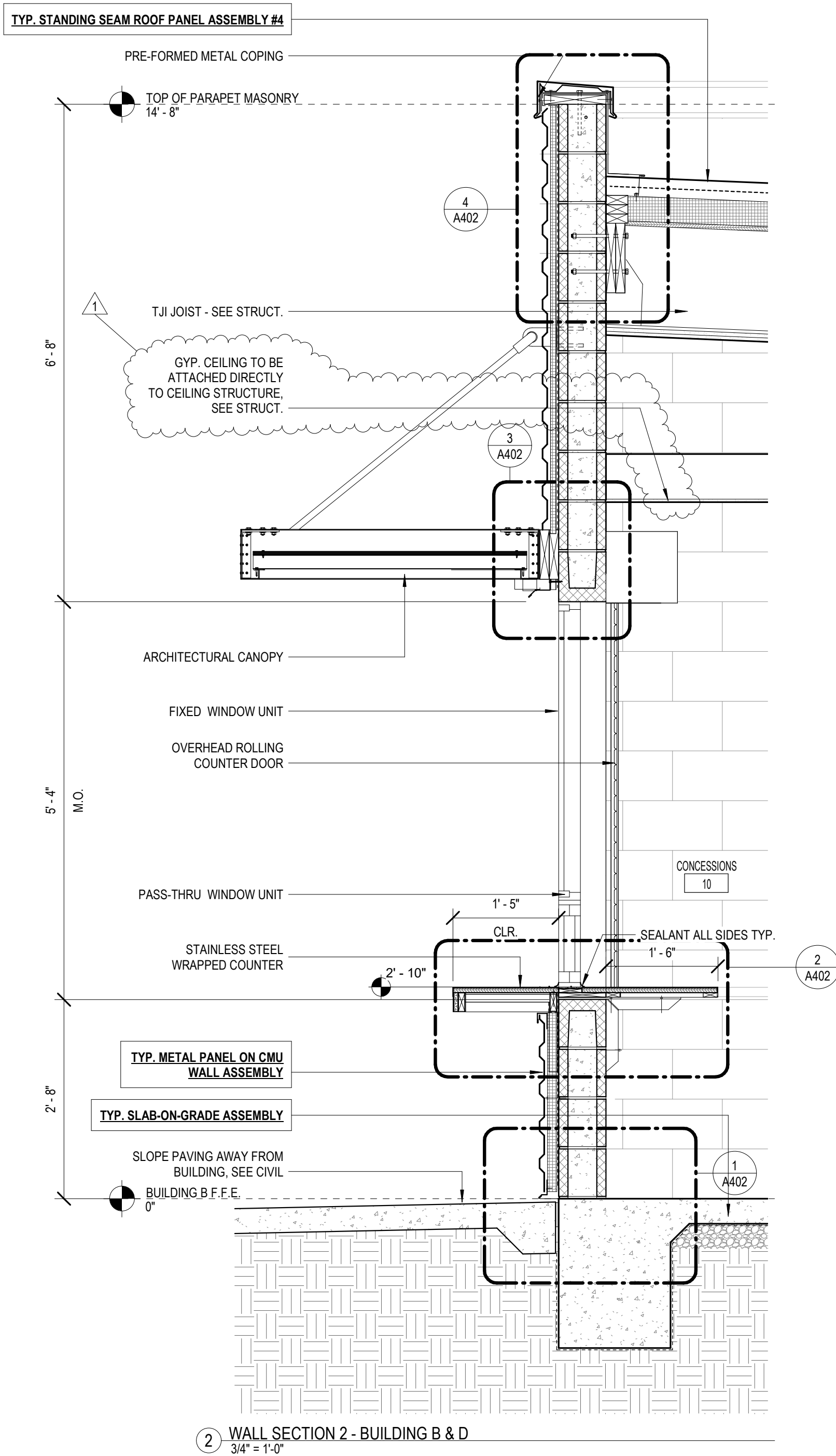
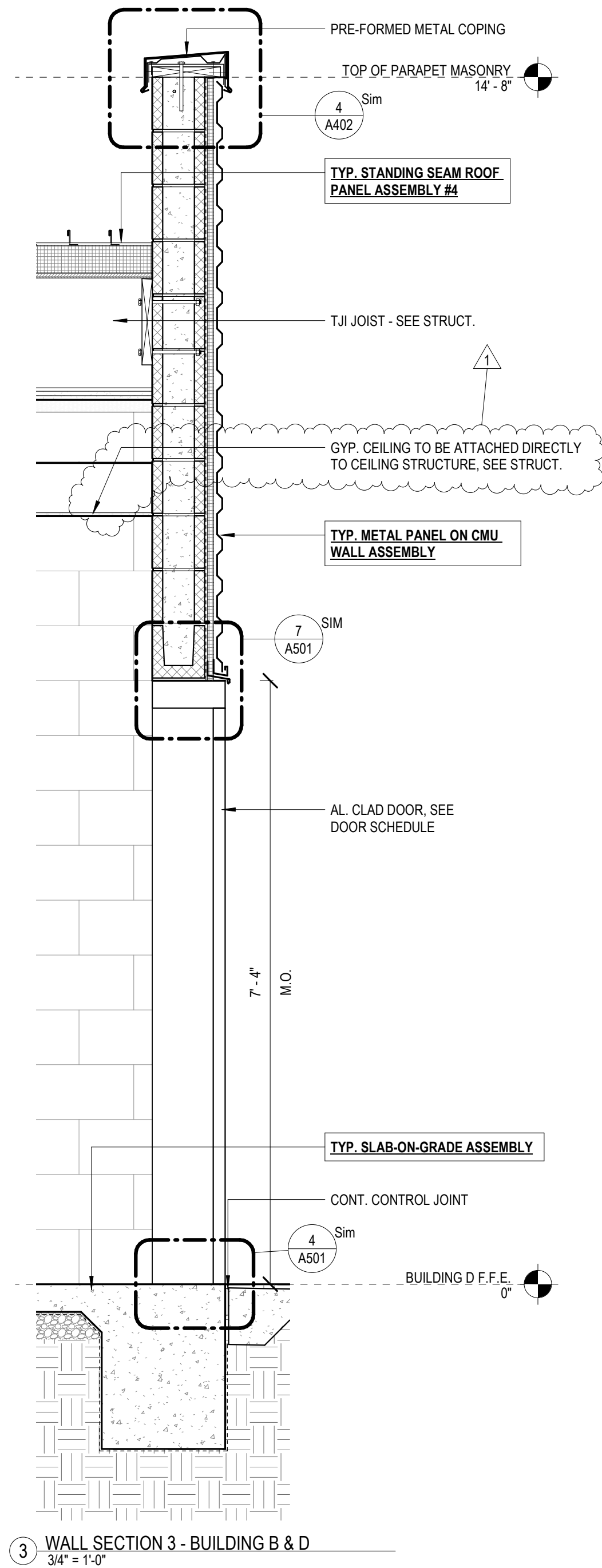
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TYP. MASONRY VENEER ON CMU WALL ASSEMBLY
- CONCRETE MASONRY VENEER (B.O.D.: 4"x8"x16" SMOOTH FACE ARCHITECTURAL UNITS BY NETTLETON CONCRETE INC.)
- 1 7/8" AIR SPACE (BACK FACE OF MASONRY TO FRONT FACE OF INSULATION)
- MASONRY ANCHORS 16" O.C.E.W.
- CONT. RIGID INSULATION (R-13 MIN.)
- WATERPROOFING OR WEATHER BARRIER
- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

TYP. METAL PANEL ON CMU WALL ASSEMBLY
- METAL WALL PANELING, INSTALLED HORIZONTALLY (B.O.D.: PBU PANEL BY MBCI)
- CONT. RIGID INSULATION (R-13 MIN.)
- CONT. GALV. STEEL ZEE GIRTS INSTALLED VERTICALLY 36" O.C. (BETWEEN RIGID INSULATION PANELS)
- WATERPROOFING OR WEATHER BARRIER
- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

FOUNDATION ASSEMBLIES:

TYP. SLAB-ON-GRADE ASSEMBLY
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
- UNDER SLAB VAPOR BARRIER
- GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
- COMPACTED SUBGRADE



OCTOBER 9, 2020

CONSTRUCTION
DOCUMENTS

WBA # 4619

REVISIONS
NO. DESCRIPTION DATE
1 ADDENDUM #2 11-16-20

GENERAL ASSEMBLY NOTES:
1. SEE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS OF EA. ASSEMBLY ITEM, TYP.
2. COORD. FRAMING W/ STRUCT. DWGS.
3. COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
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ROOF ASSEMBLIES:

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- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #2 (AT VISITOR ENTRANCE BUILDING):
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- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #3 (RESTROOM BUILDING UNDER BLEACHERS):
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #4 - 1 HR. RATED ASSEMBLY U.L. DESIGN NO. M32 (CONCESSIONS BUILDINGS UNDER BLEACHERS):
- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 3/4" PLYWOOD
- WOOD I-JOISTS (SEE STRUCT.)
- 1/2 RESILIENT CHANNEL
- 2 LAYERS 5/8" TYPE-X GYPSUM BD.

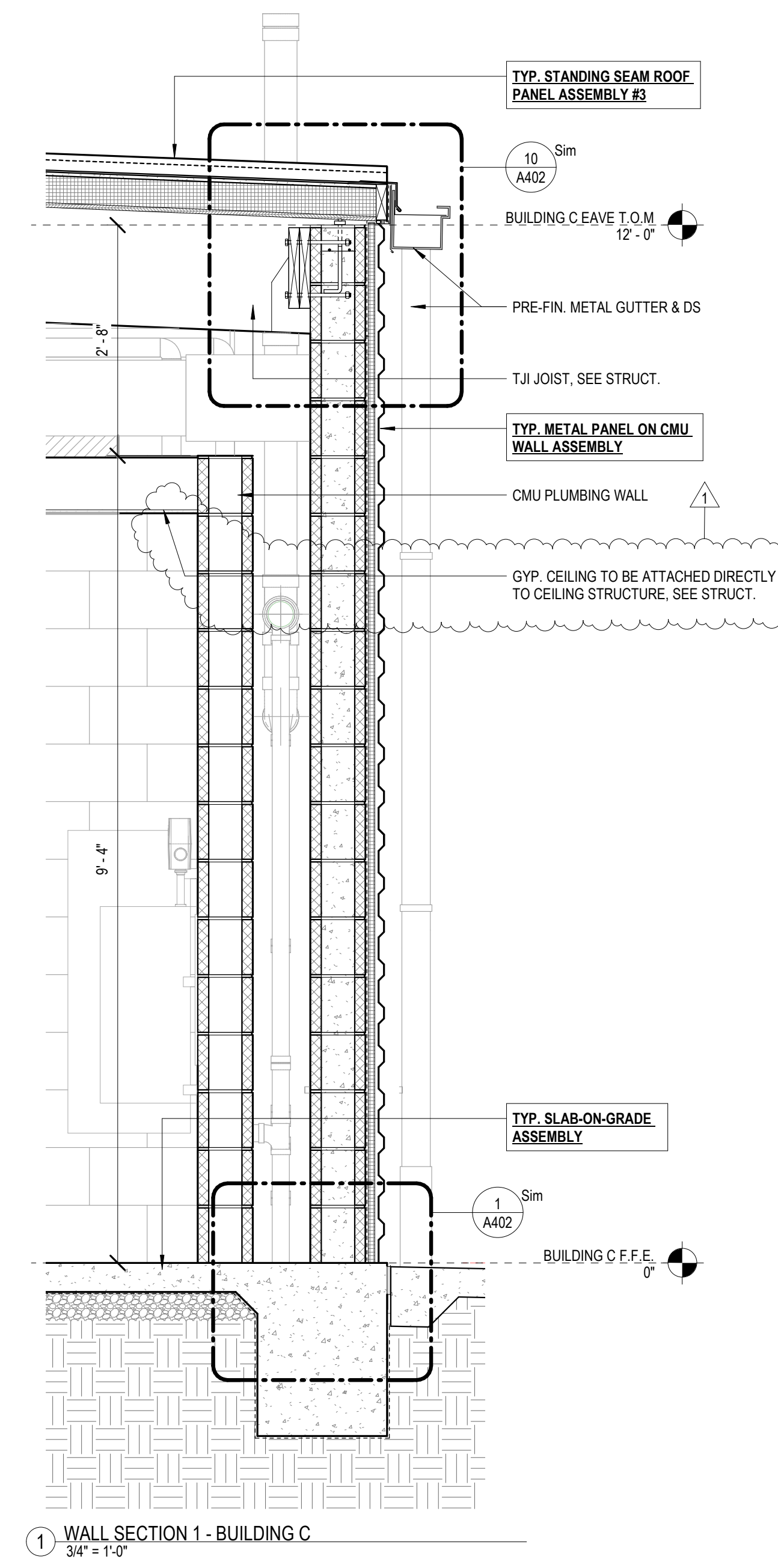
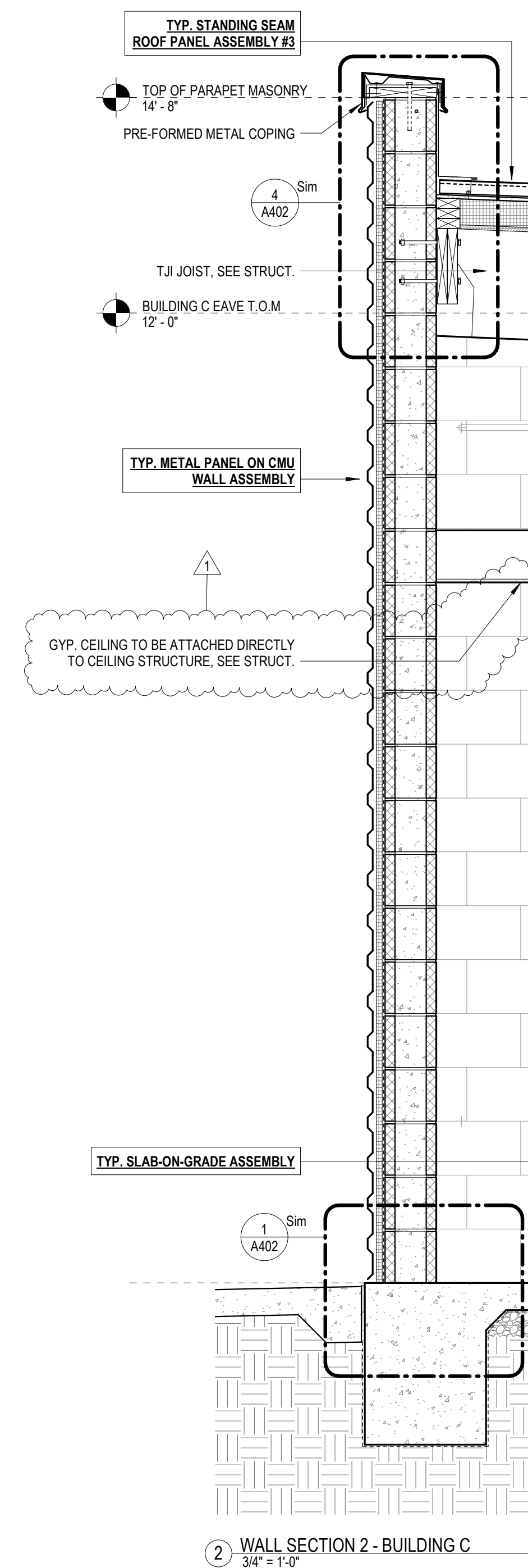
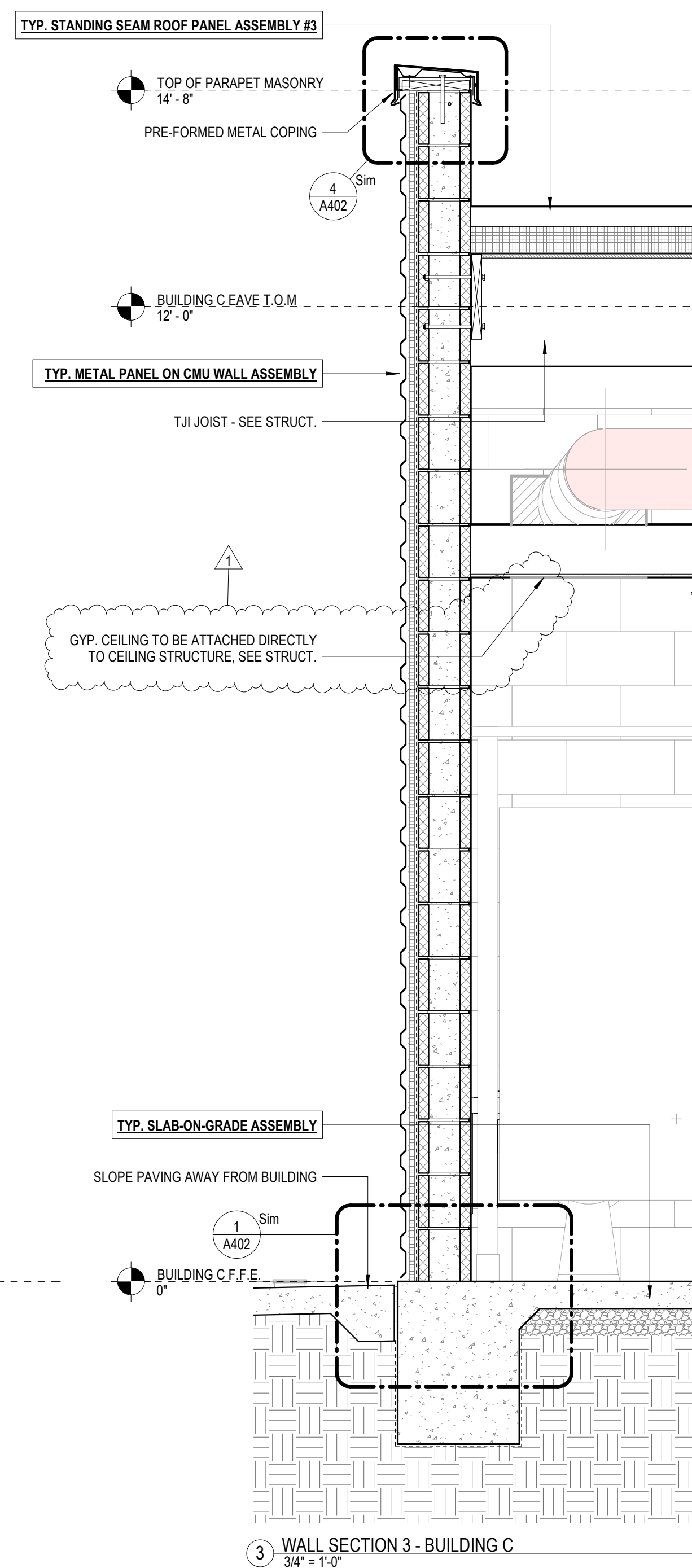
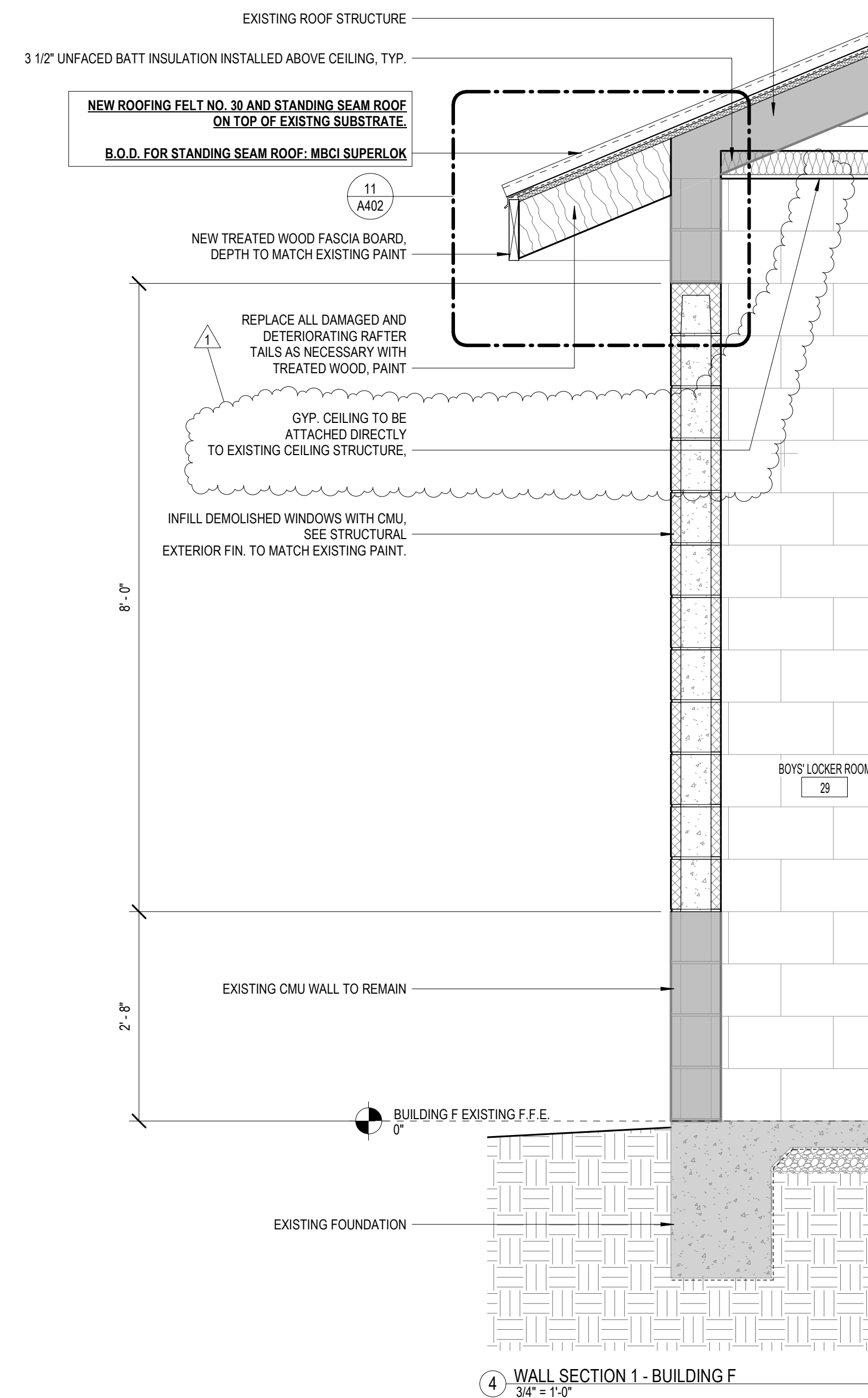
WALL ASSEMBLIES:

TYP. MASONRY VENEER ON CMU WALL ASSEMBLY
- CONCRETE MASONRY VENEER (B.O.D.: 4"x8"x16" SMOOTH FACE ARCHITECTURAL UNITS BY NETTLETON CONCRETE INC.)
- 1 7/8" AIR SPACE (BACK FACE OF MASONRY TO FRONT FACE OF INSULATION)
- MASONRY ANCHORS 16" O.C.E.W.
- CONT. RIGID INSULATION (R-13 MIN.)
- WATERPROOFING OR WEATHER BARRIER
- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

TYP. METAL PANEL ON CMU WALL ASSEMBLY
- METAL WALL PANELING, INSTALLED HORIZONTALLY (B.O.D.: PBU PANEL BY MBCI)
- CONT. RIGID INSULATION (R-13 MIN.)
- CONT. GALV. STEEL ZEE GIRTS INSTALLED VERTICALLY 36" O.C. (BETWEEN RIGID INSULATION PANELS)
- WATERPROOFING OR WEATHER BARRIER
- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

FOUNDATION ASSEMBLIES:

TYP. SLAB-ON-GRADE ASSEMBLY
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
- UNDER SLAB VAPOR BARRIER
- GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
- COMPACTED SUBGRADE



OCTOBER 9, 2020

CONSTRUCTION
DOCUMENTS

WBA # 4619

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #2	11-16-20

- GENERAL ASSEMBLY NOTES:**
1. SEE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS OF EA. ASSEMBLY ITEM, TYP.
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 3. COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
 4. COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
 5. SEE FINISH SCHED. FOR INTERIOR FINISH MATERIALS

ROOF ASSEMBLIES:

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #1 (AT CANOPIES):

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- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #2 (AT VISITOR ENTRANCE BUILDING):

- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: SUPERLOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #3 (RESTROOM BUILDING UNDER BLEACHERS):

- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 5/8" PLYWOOD OR OSB SHEATHING

TYP. STANDING SEAM ROOF PANEL ASSEMBLY #4 - 1 HR. RATED ASSEMBLY U.L. DESIGN NO. M532 (CONCESSIONS BUILDINGS UNDER BLEACHERS):

- STANDING SEAM MTL. ROOF PANEL SYS. (B.O.D.: DOUBLE-LOK BY MBCI)
- BEARING PLATE (BY ROOFING PANEL MANUF.)
- RIGID INSUL. BD. (R-20 MIN.)
- ROOFING FELT NO. 30
- 3/4" PLYWOOD
- WOOD JOISTS (SEE STRUCT.)
- 1/2" RESILIENT CHANNEL
- 2 LAYERS 5/8" TYPE-X GYPSUM BD.

WALL ASSEMBLIES:

TYP. MASONRY VENEER ON CMU WALL ASSEMBLY

- CONCRETE MASONRY VENEER (B.O.D.: 4"x8"x16" SMOOTH FACE ARCHITECTURAL UNITS BY NETTLETON CONCRETE INC.)
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- MASONRY ANCHORS 16" O.C.E.W.
- CONT. RIGID INSULATION (R-13 MIN.)
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- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

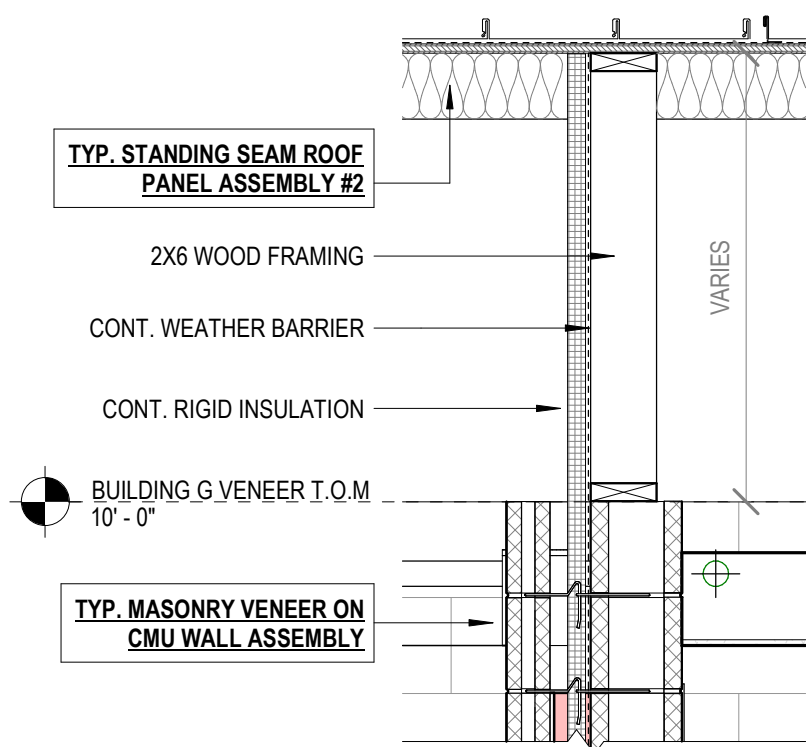
FOUNDATION ASSEMBLIES:

TYP. SLAB-ON-GRADE ASSEMBLY

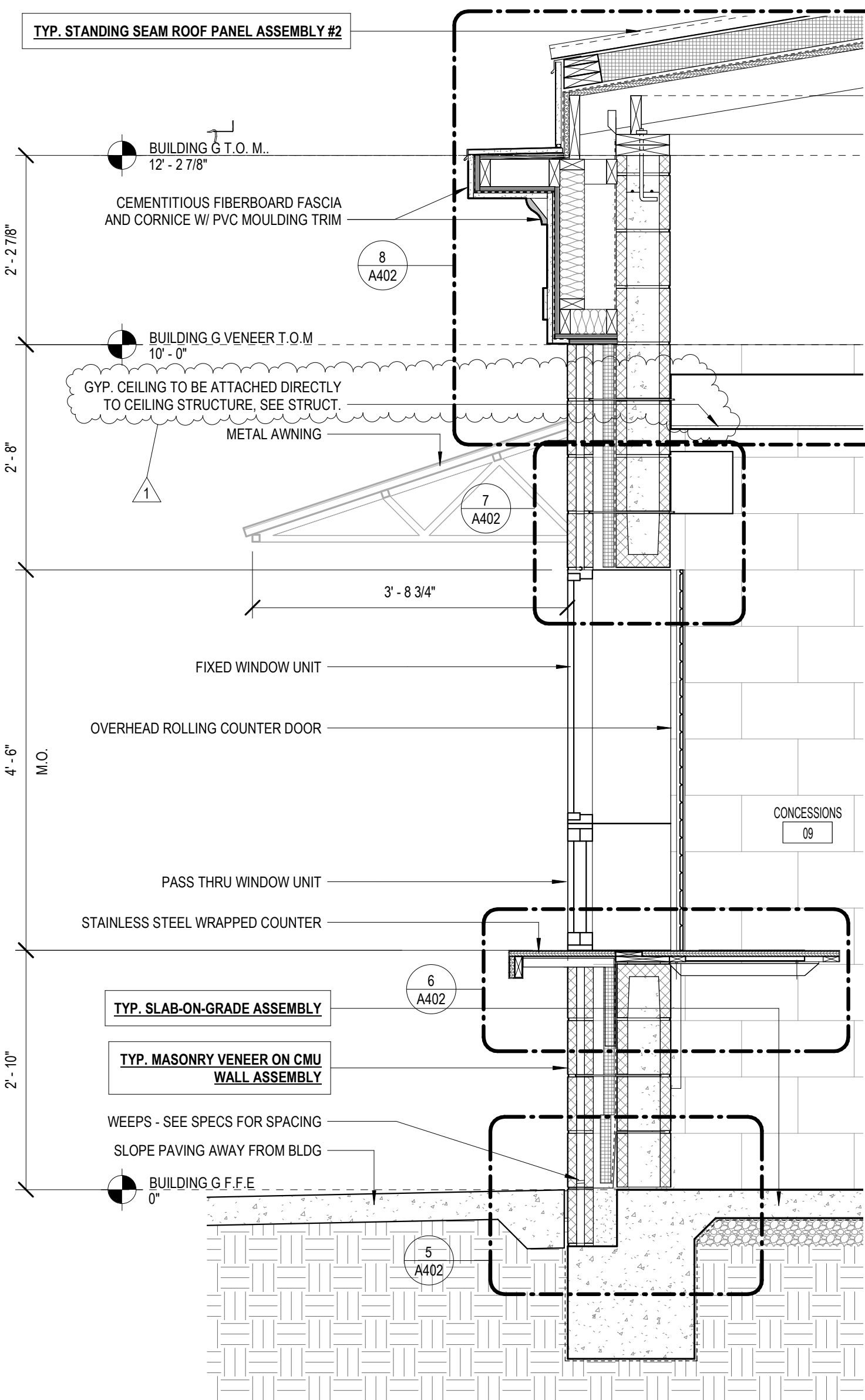
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
- UNDER SLAB VAPOR BARRIER
- GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
- COMPACTED SUBGRADE

TYP. METAL PANEL ON CMU WALL ASSEMBLY

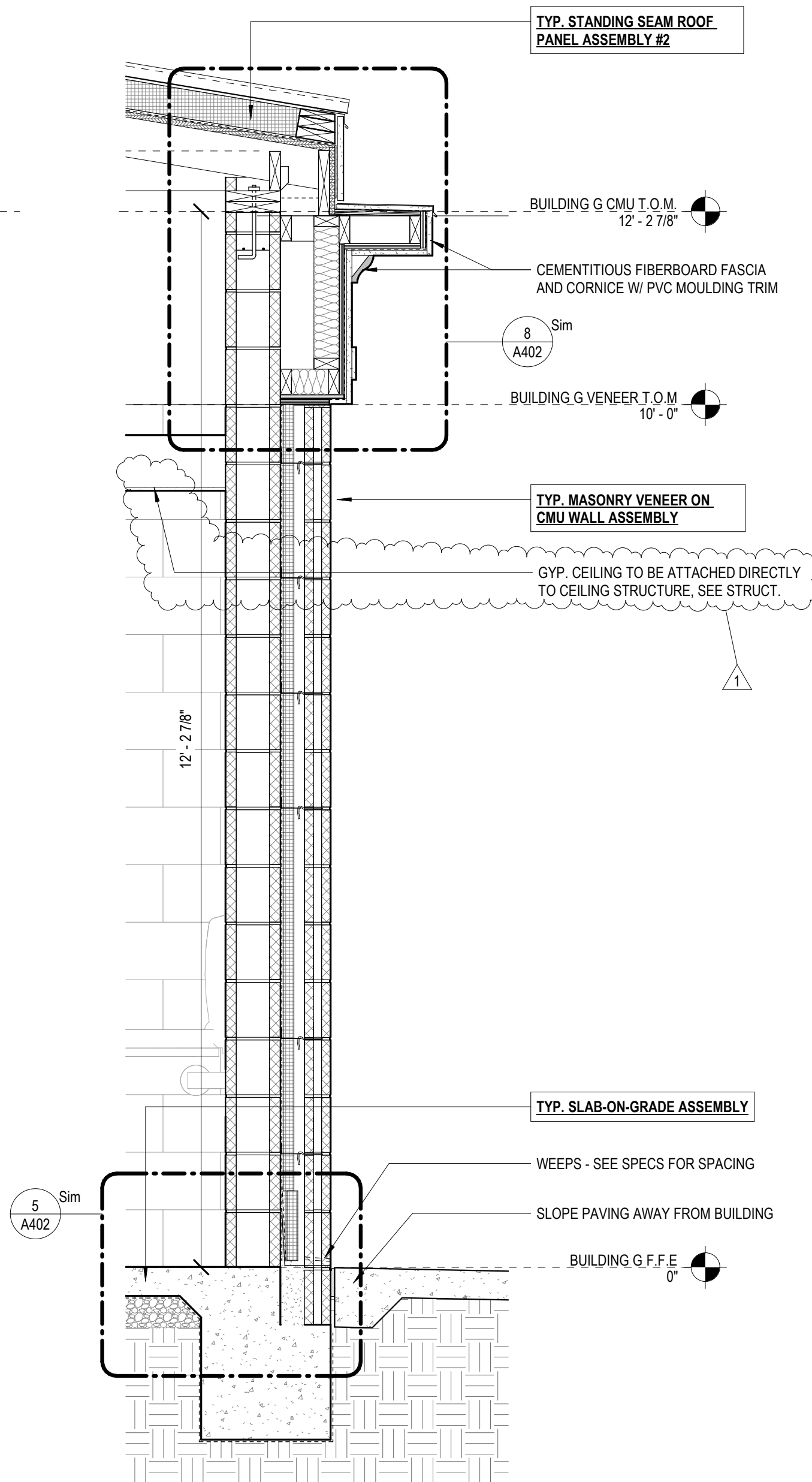
- METAL WALL PANELING, INSTALLED HORIZONTALLY (B.O.D.: PBU PANEL BY MBCI)
- CONT. RIGID INSULATION (R-13 MIN.)
- CONT. GALV. STEEL ZEE GIRTS INSTALLED VERTICALLY 36" O.C. (BETWEEN RIGID INSULATION PANELS)
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- CONCRETE BLOCK
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE



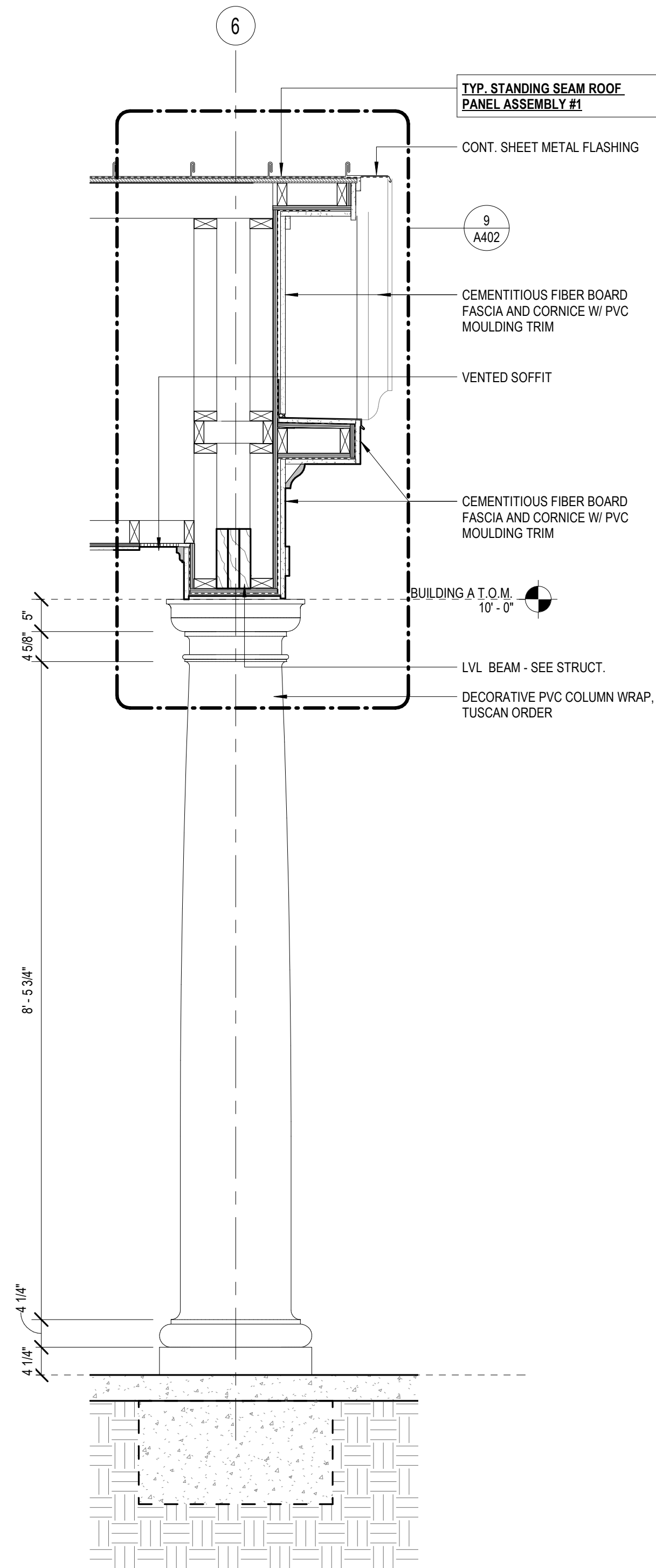
5 BUILDING G WALL TRANSITION DETAIL
3/4" = 1'-0"



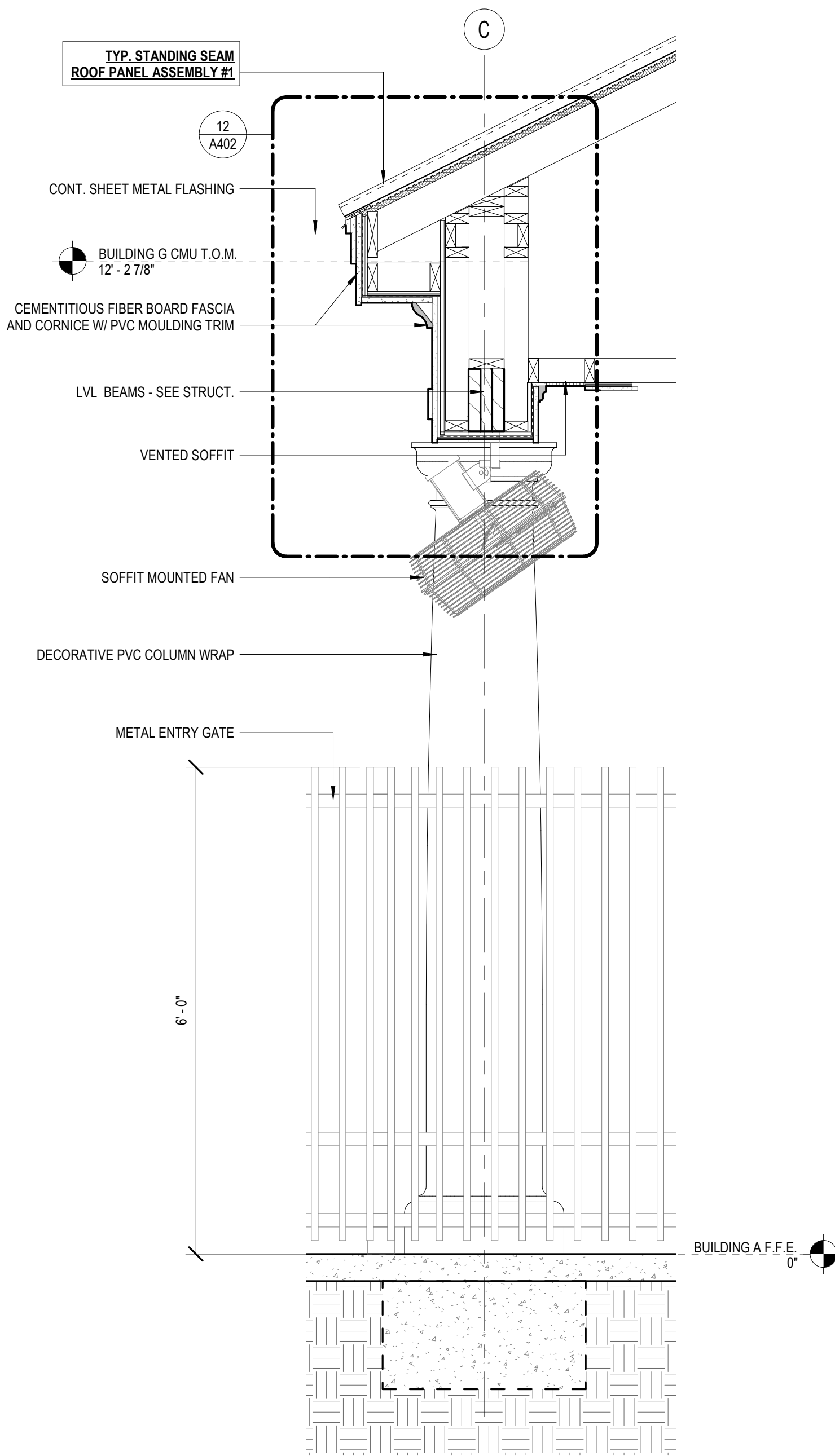
4 WALL SECTION 2 - BUILDING G
3/4" = 1'-0"



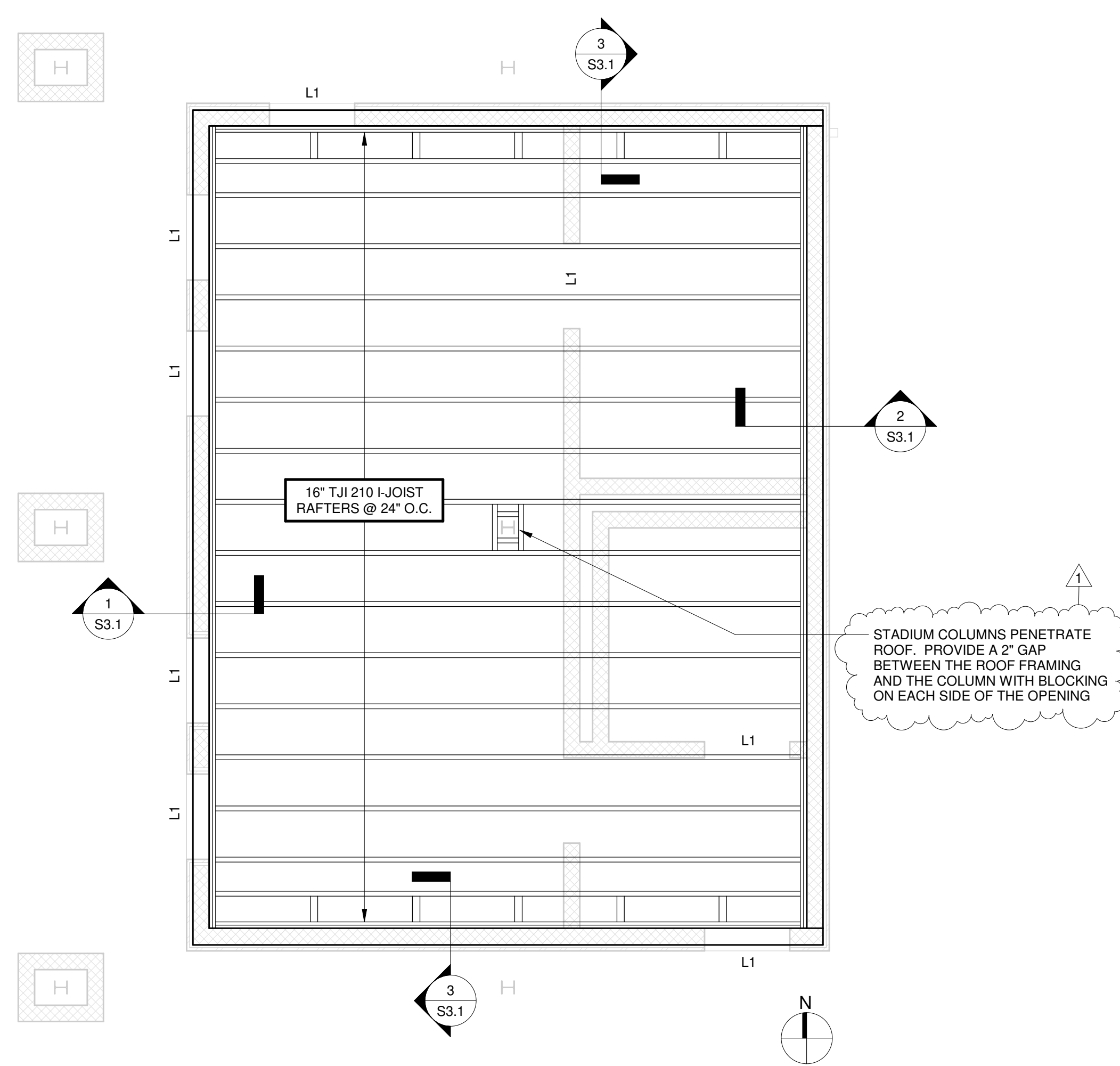
3 WALL SECTION 1 - BUILDING G
3/4" = 1'-0"



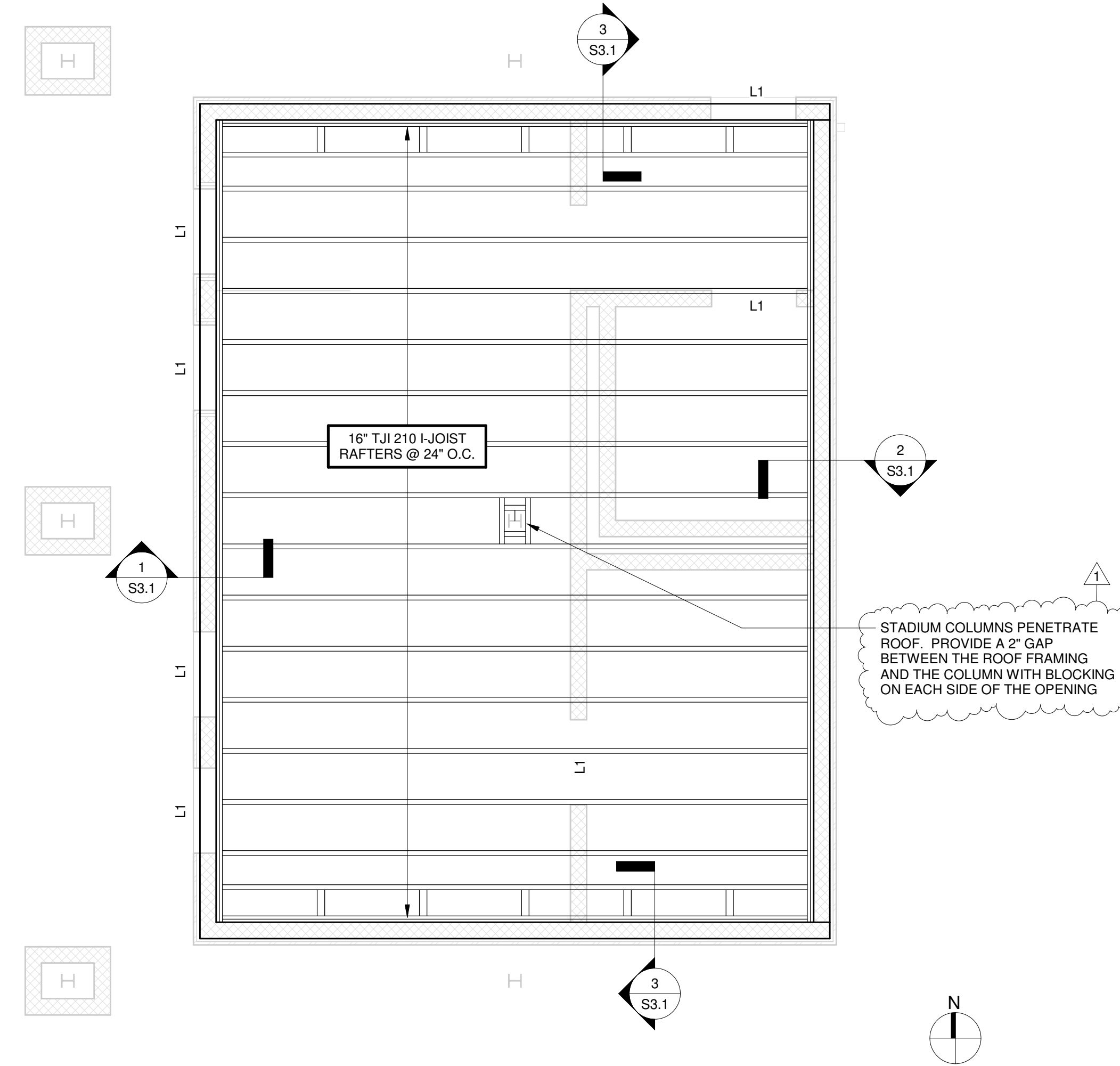
2 WALL SECTION 2 - BUILDING A
3/4" = 1'-0"



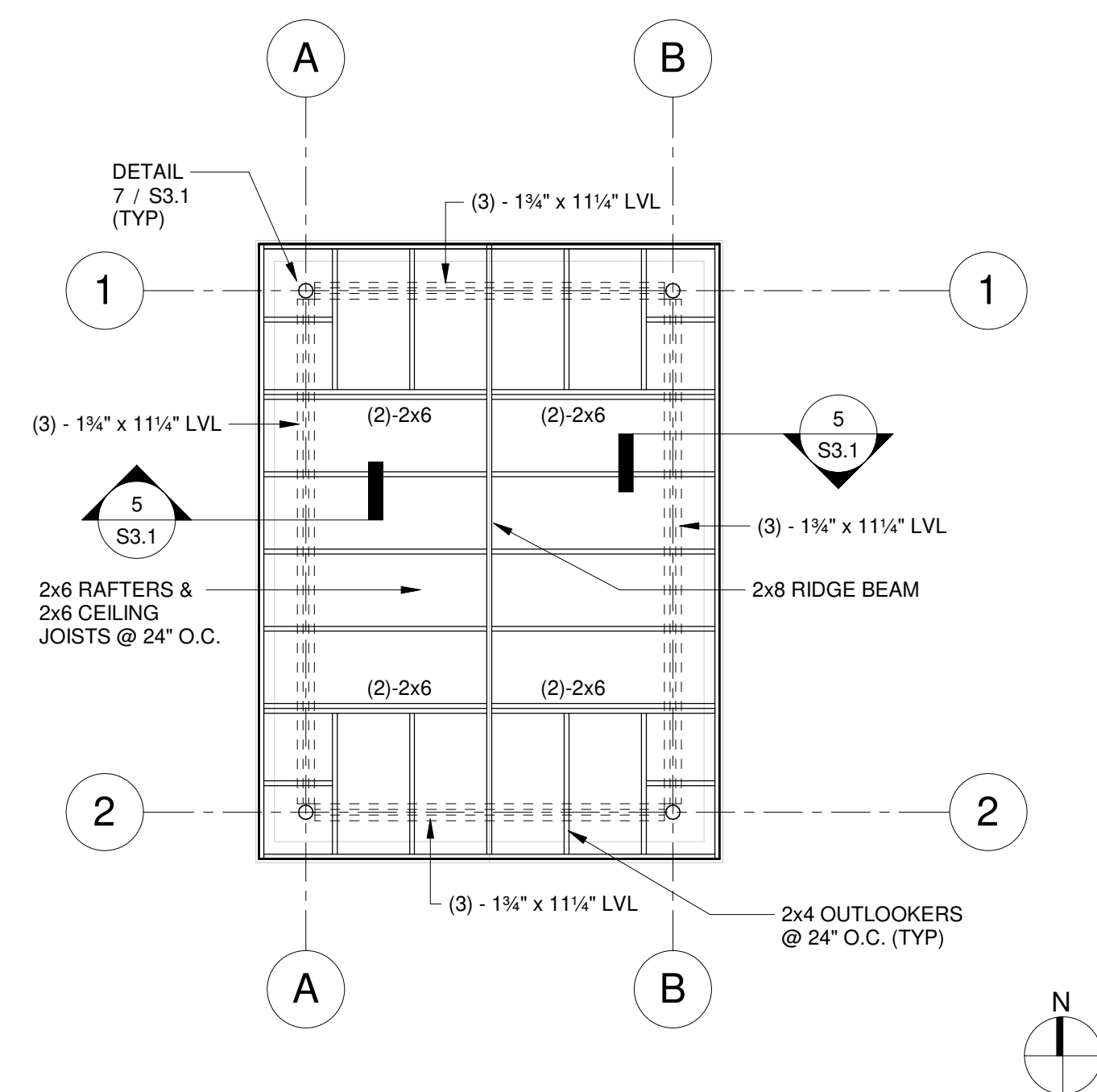
1 WALL SECTION 1 - BUILDING A
3/4" = 1'-0"



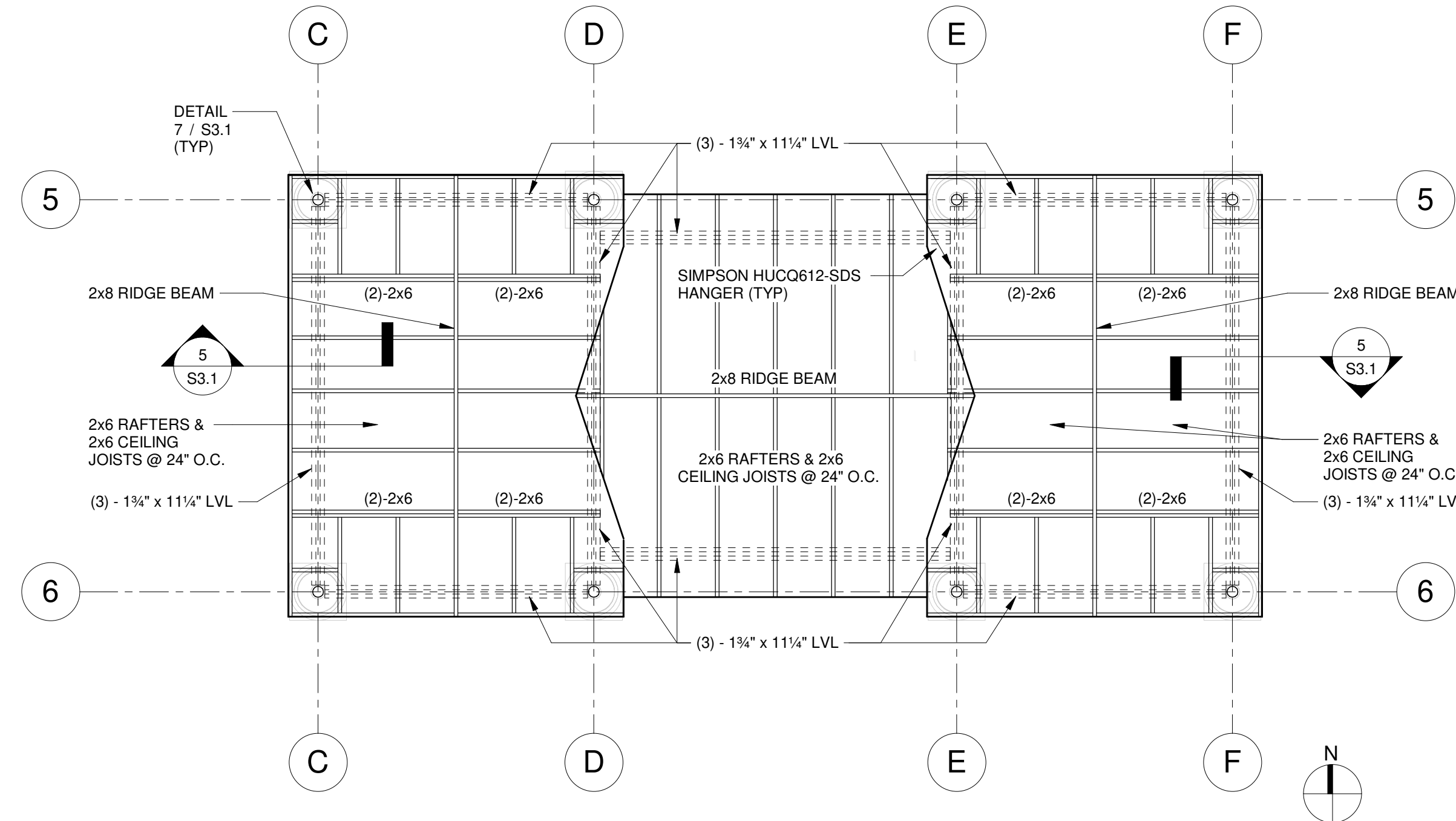
ROOF FRAMING PLAN - BUILDING D
1/4" = 1'-0"



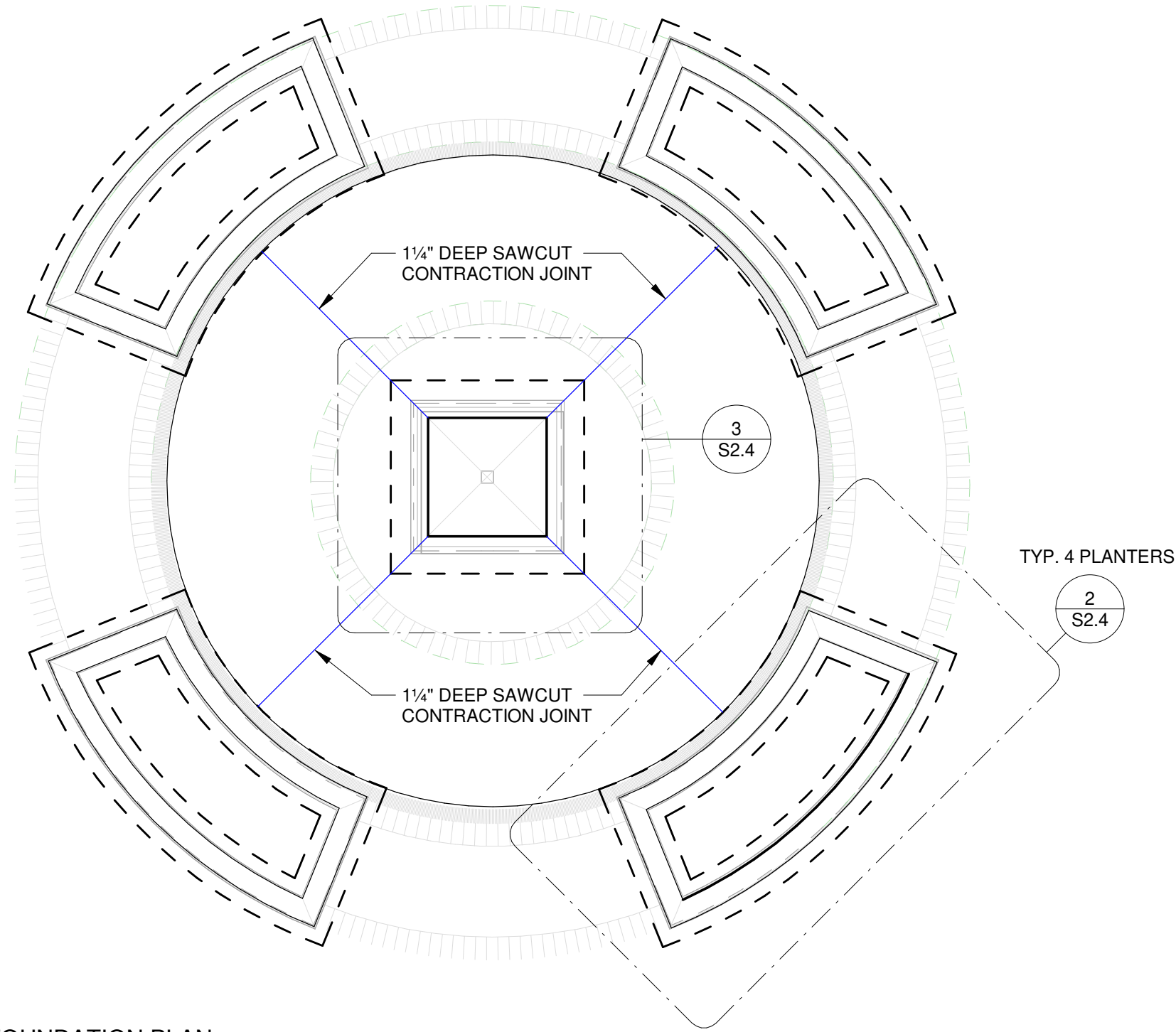
ROOF FRAMING PLAN - BUILDING B
1/4" = 1'-0"



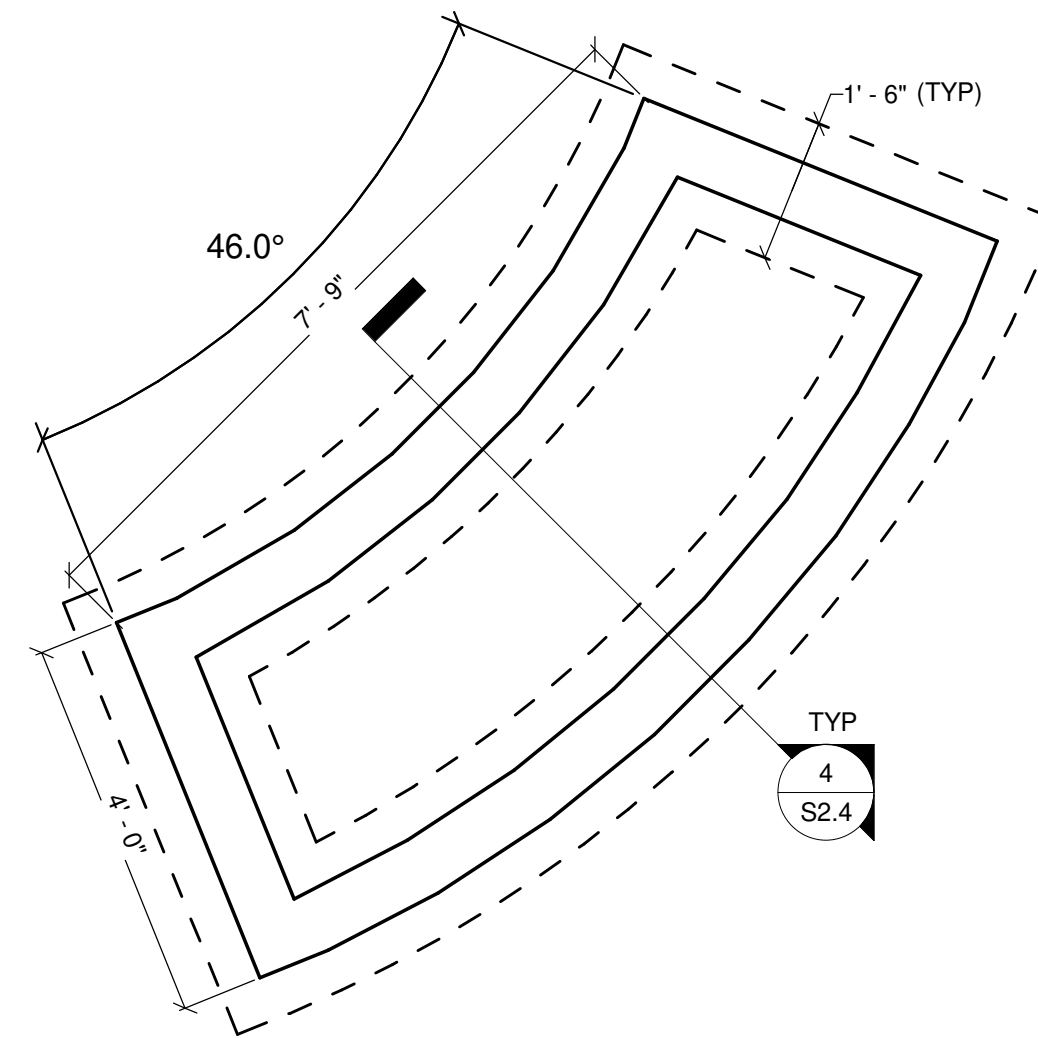
ROOF FRAMING PLAN - BUILDING E
1/4" = 1'-0"



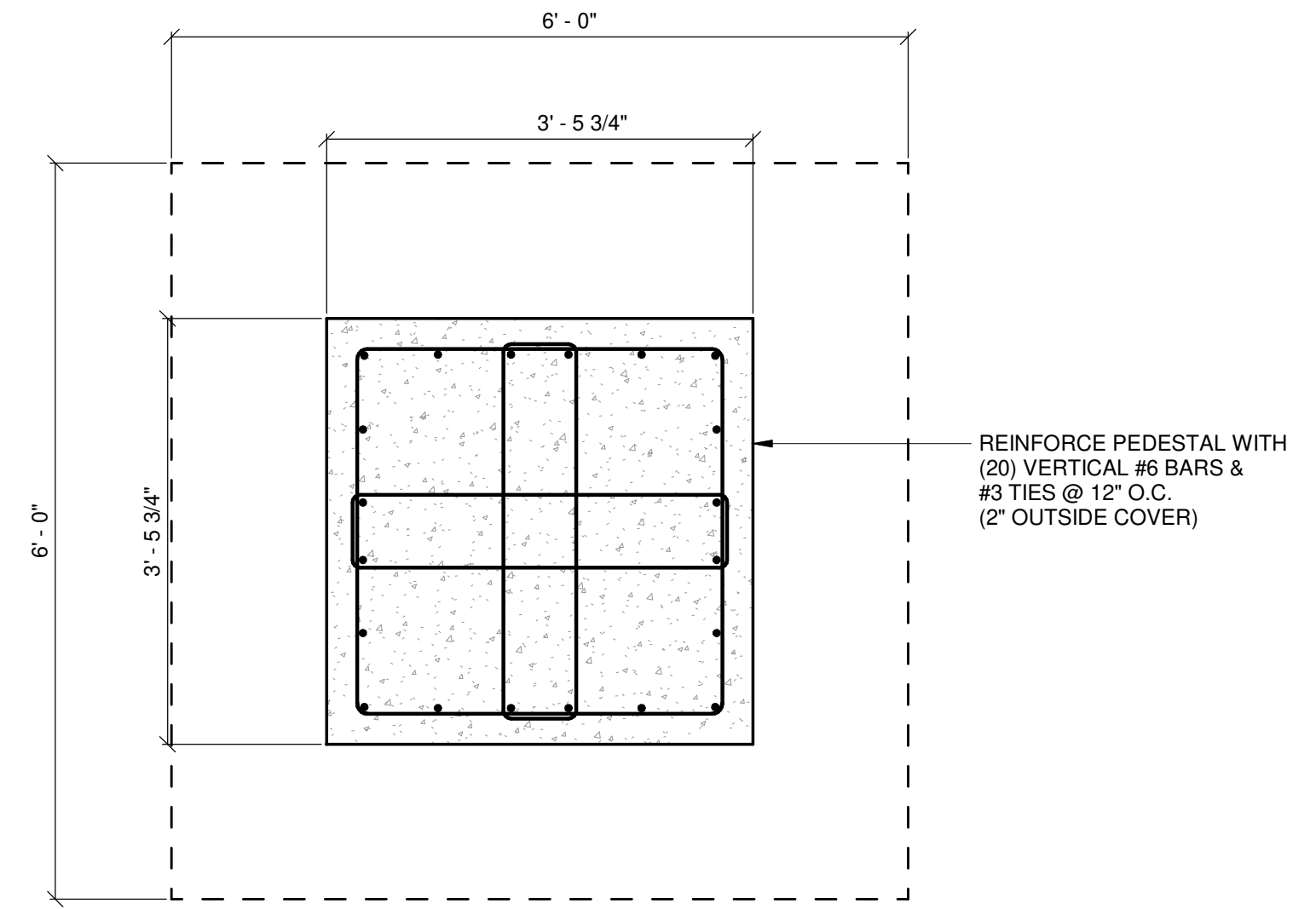
ROOF FRAMING PLAN - BUILDING A
1/4" = 1'-0"



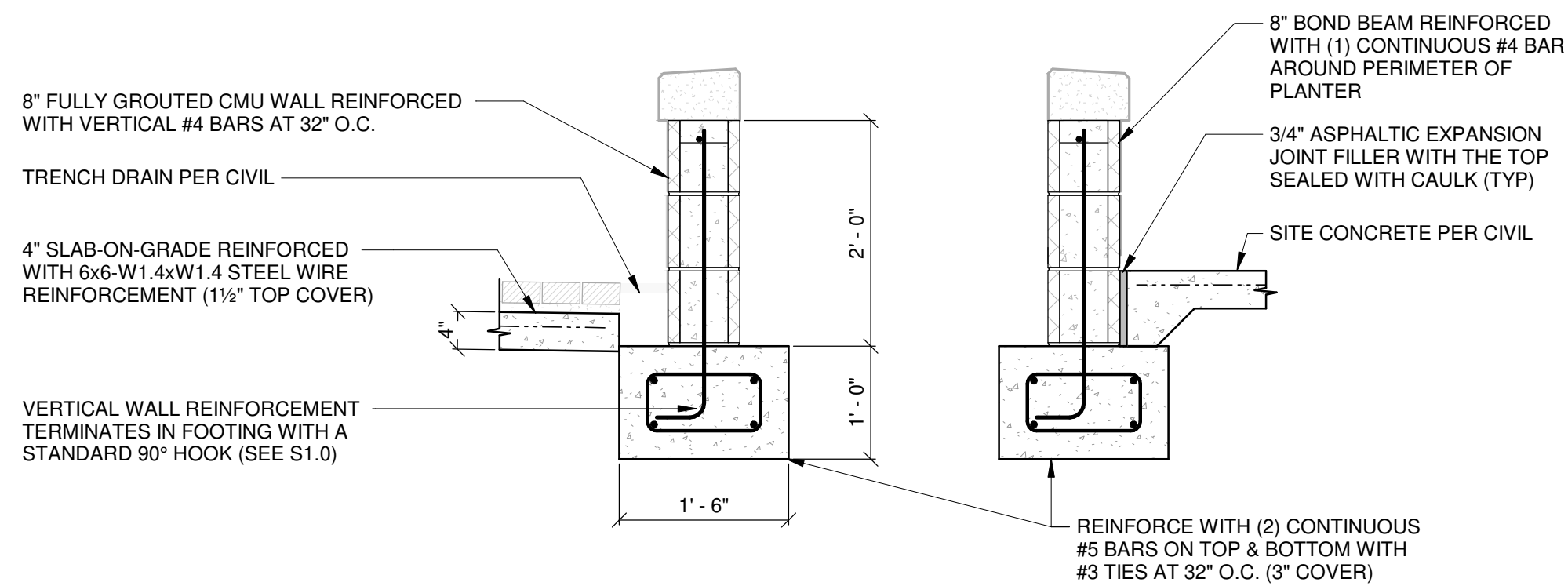
1
S2.4
PLAZA FOUNDATION PLAN
1/4" = 1'-0"



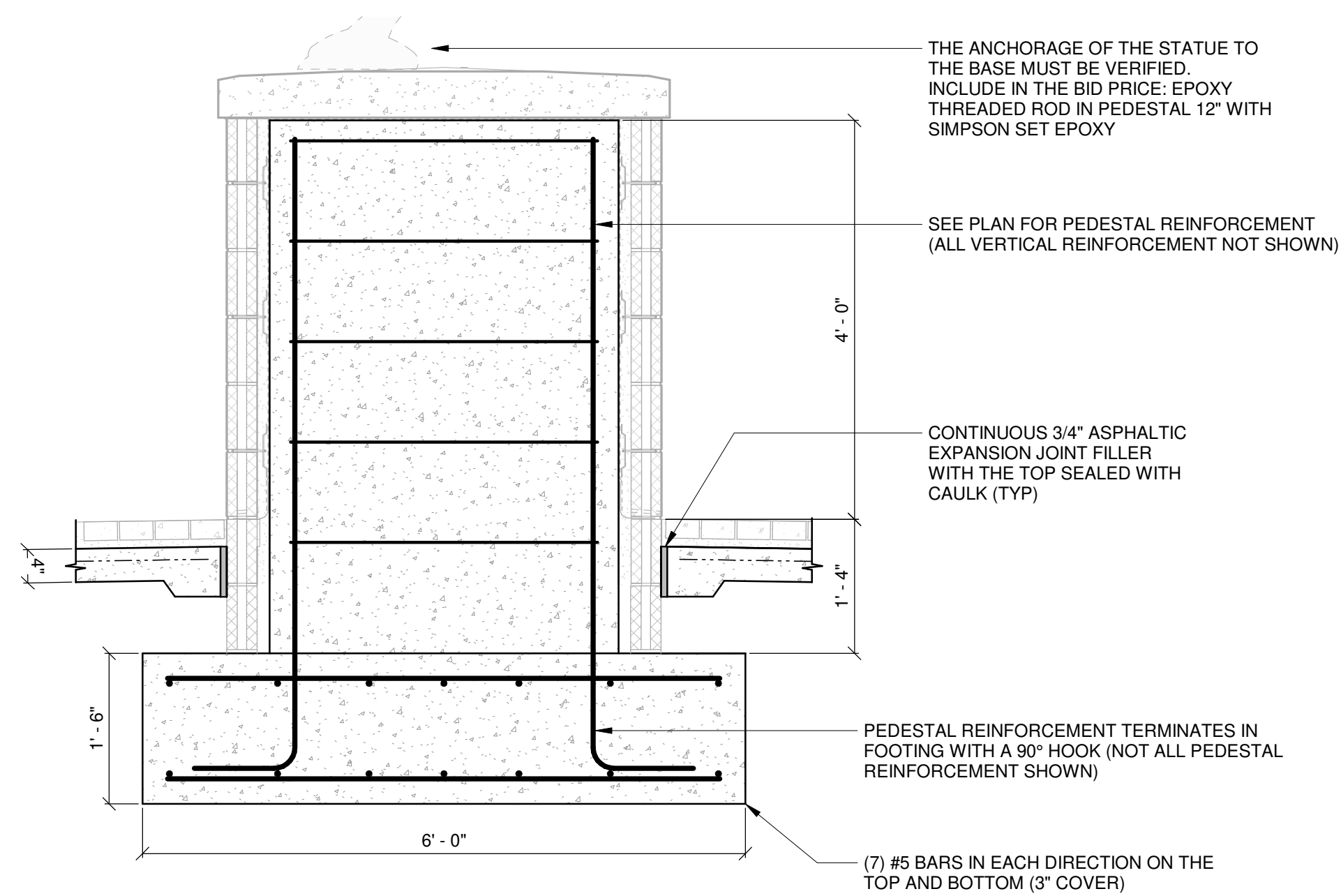
2
S2.4
PLAZA PLANTER FOUNDATION PLAN DETAIL
1/2" = 1'-0"



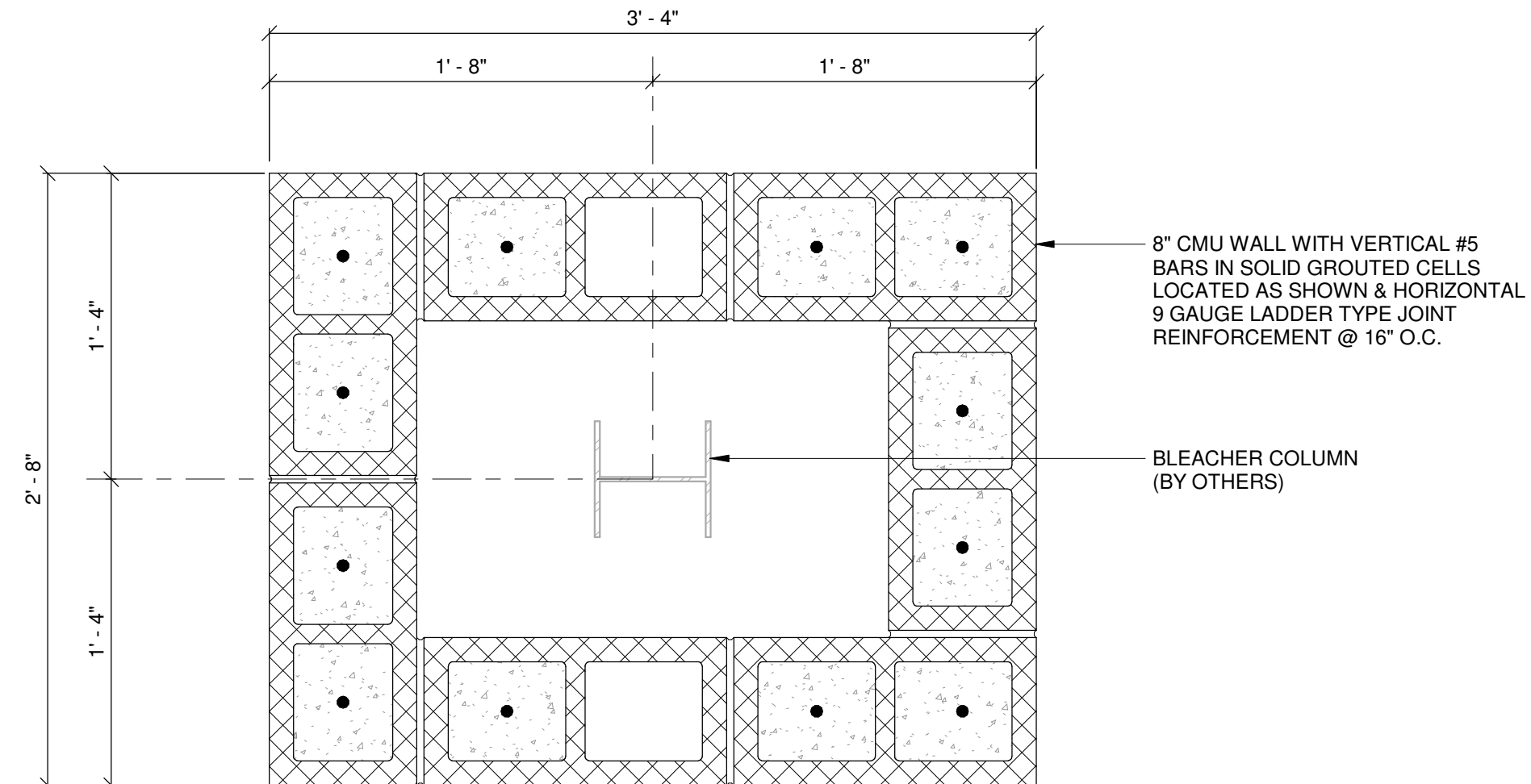
3
S2.4
STATUE BASE PLAN DETAIL
3/4" = 1'-0"



4
S2.4
PLAZA PLANTER SECTION
3/4" = 1'-0"

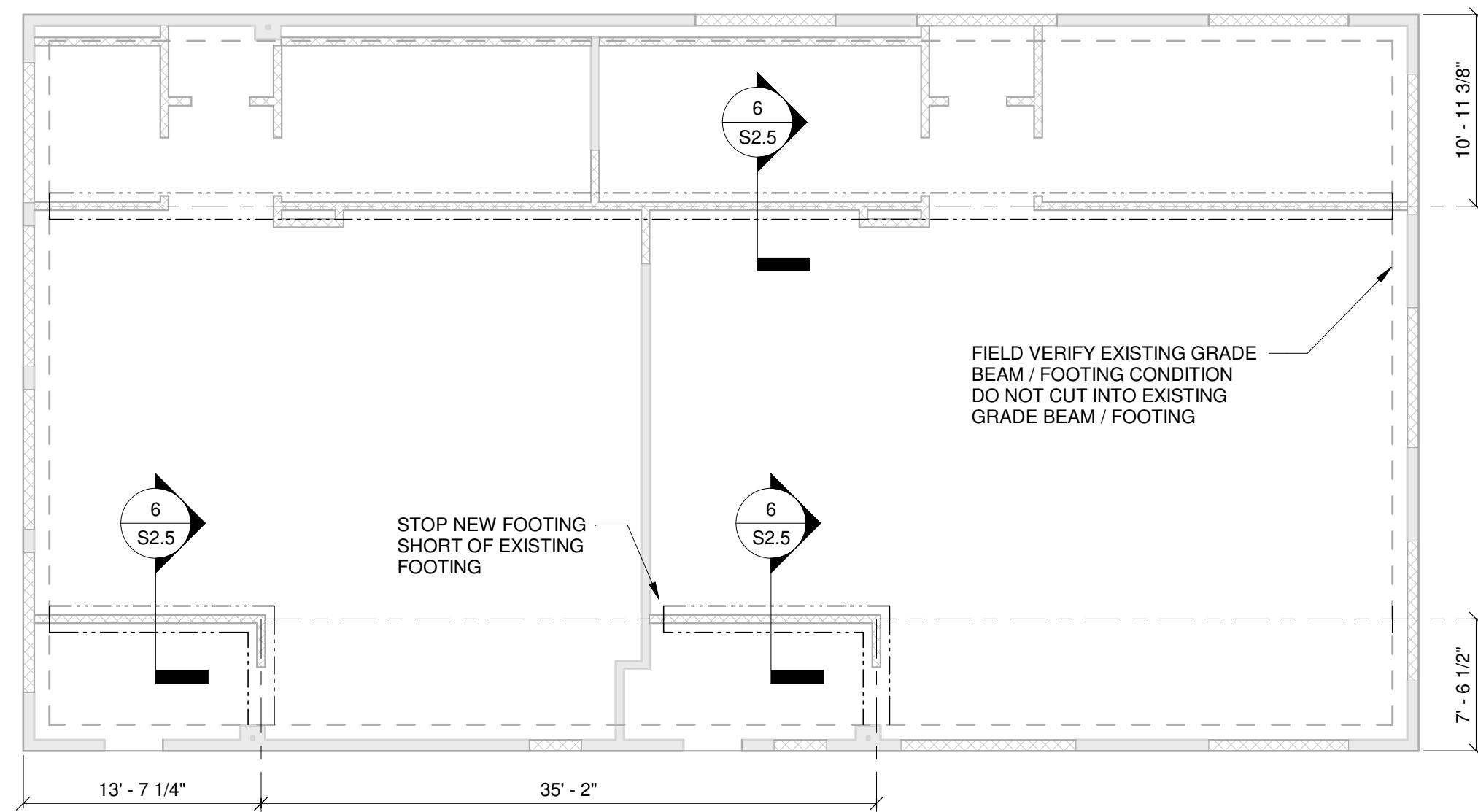


5
S2.4
STATUE BASE SECTION
3/4" = 1'-0"

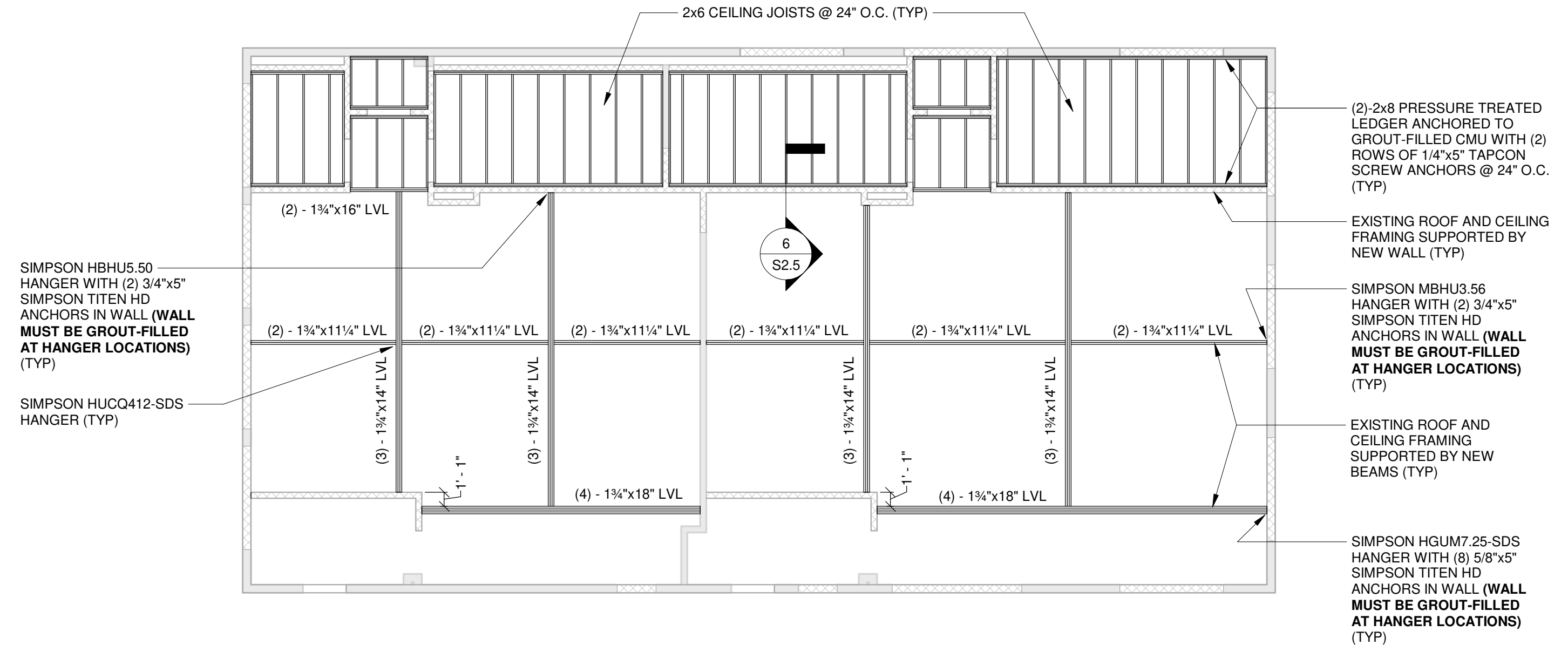


6
S2.4
BLEACHER COLUMN WRAP DETAIL
1 1/2" = 1'-0"

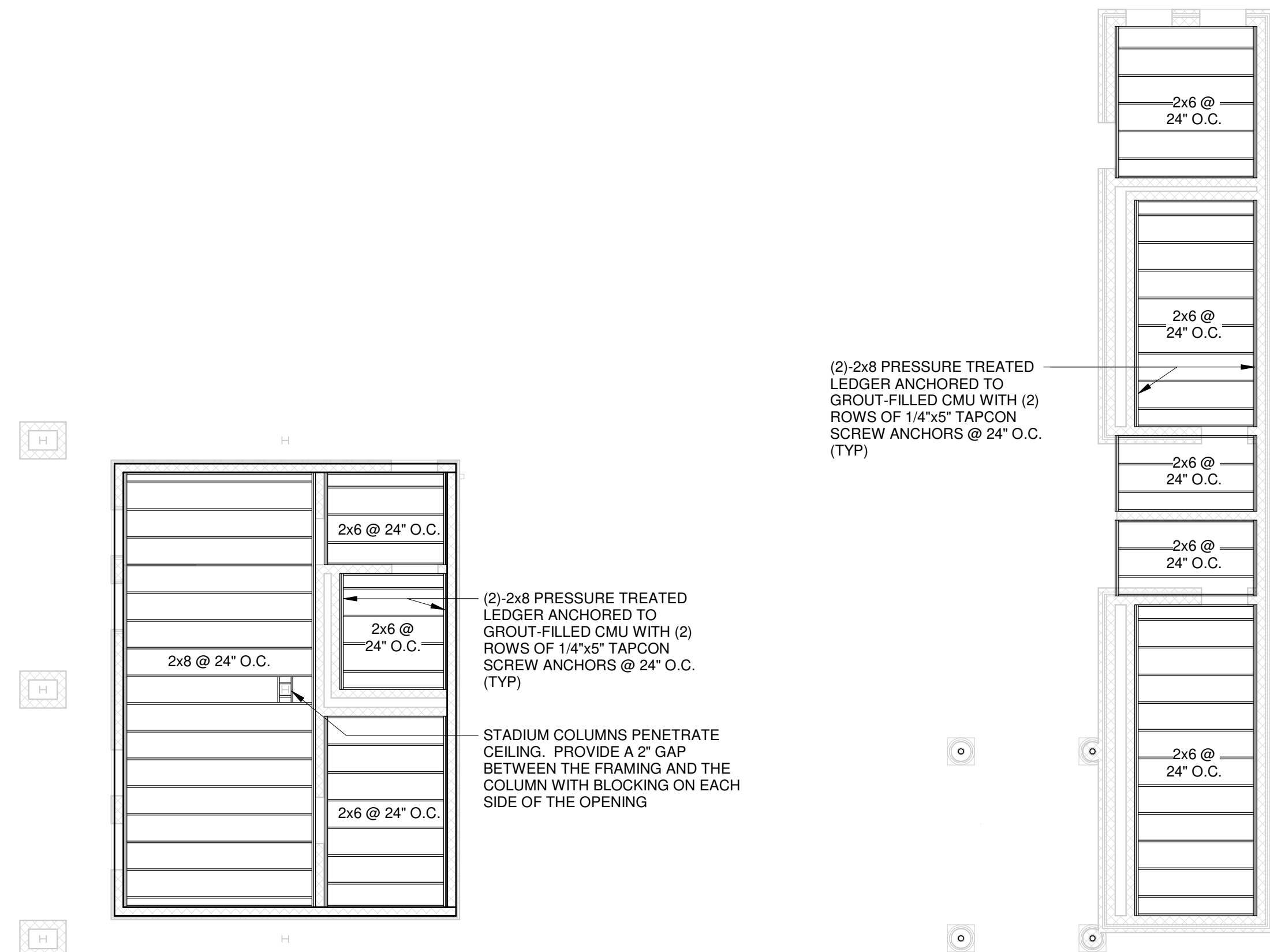
- SEE ARCHITECTURAL DRAWINGS FOR CMU WALL HEIGHT.
- ENSURE THERE IS A JOINT BETWEEN THE BLEACHER COLUMN AND THE COPING THAT ALLOWS FOR MORE MOVEMENT THAN THE CALCULATED BLEACHER DRIFT/DEFLECTION. VERIFY WITH BLEACHER MANUFACTURER.
- CMU WALLS BEAR ON THE BLEACHER COLUMN FOOTING. VERTICAL WALL REINFORCEMENT TERMINATES IN THE FOOTING WITH A 90° HOOK. THE FOOTING DESIGN SHALL BE ADEQUATE TO SUPPORT A TOTAL REACTION OF 16 KIPS FROM THE CMU WALLS. THE FOOTING DESIGN IS BY THE BLEACHER MANUFACTURER.



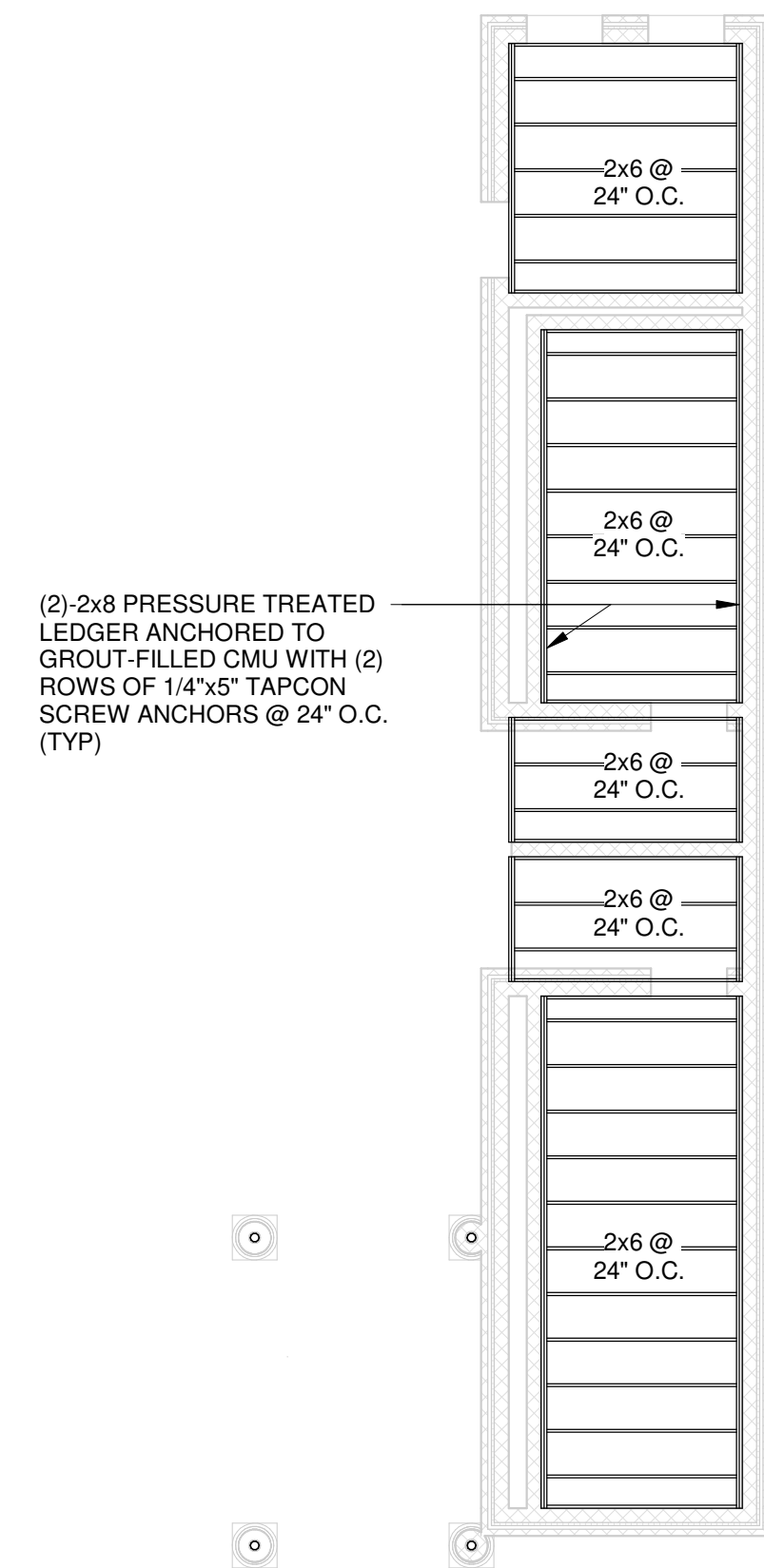
1
S2.5 BUILDING F FOUNDATION PLAN
1/8" = 1'-0"



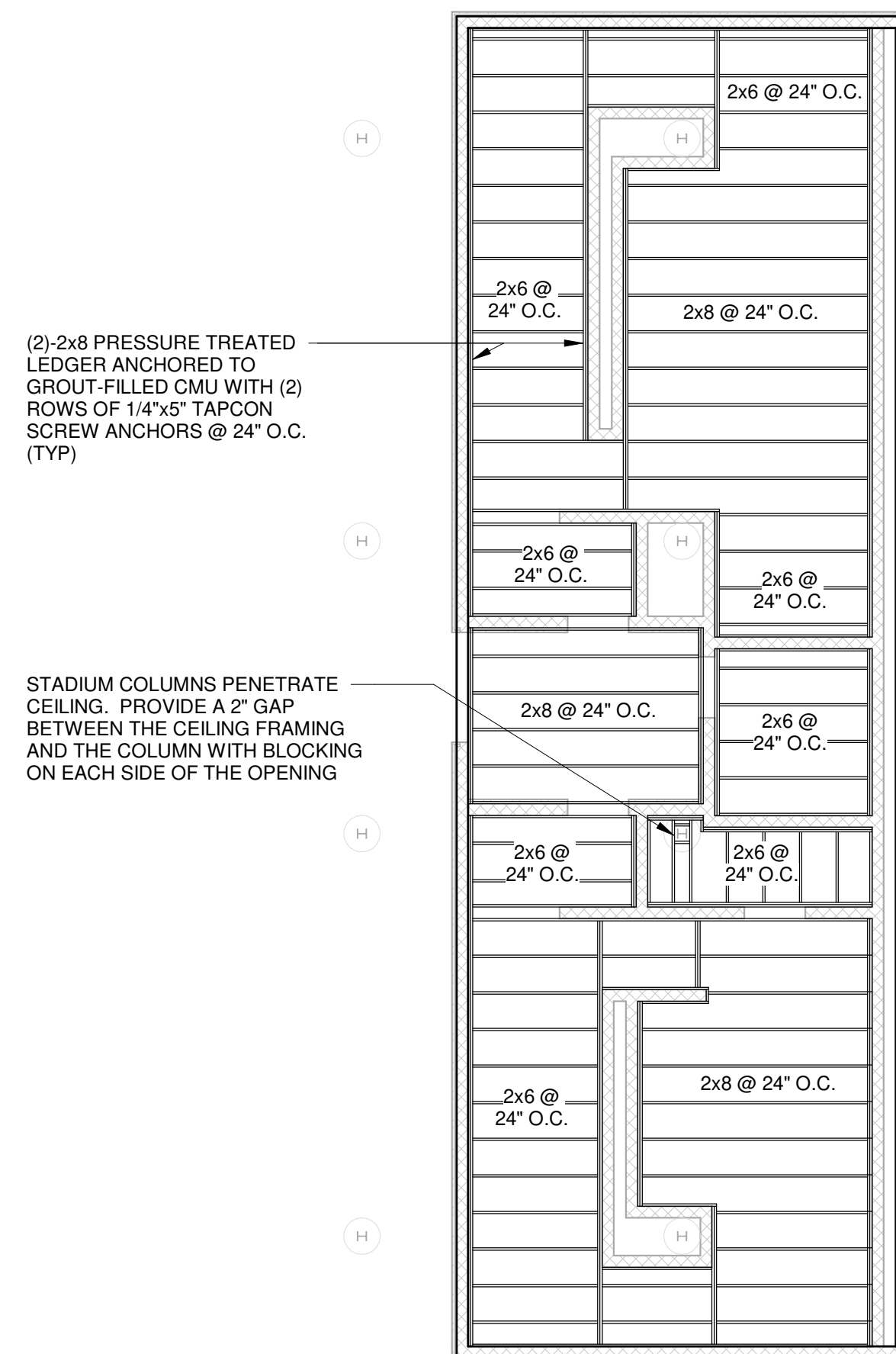
2
S2.5 BUILDING F CEILING FRAMING PLAN
1/8" = 1'-0"



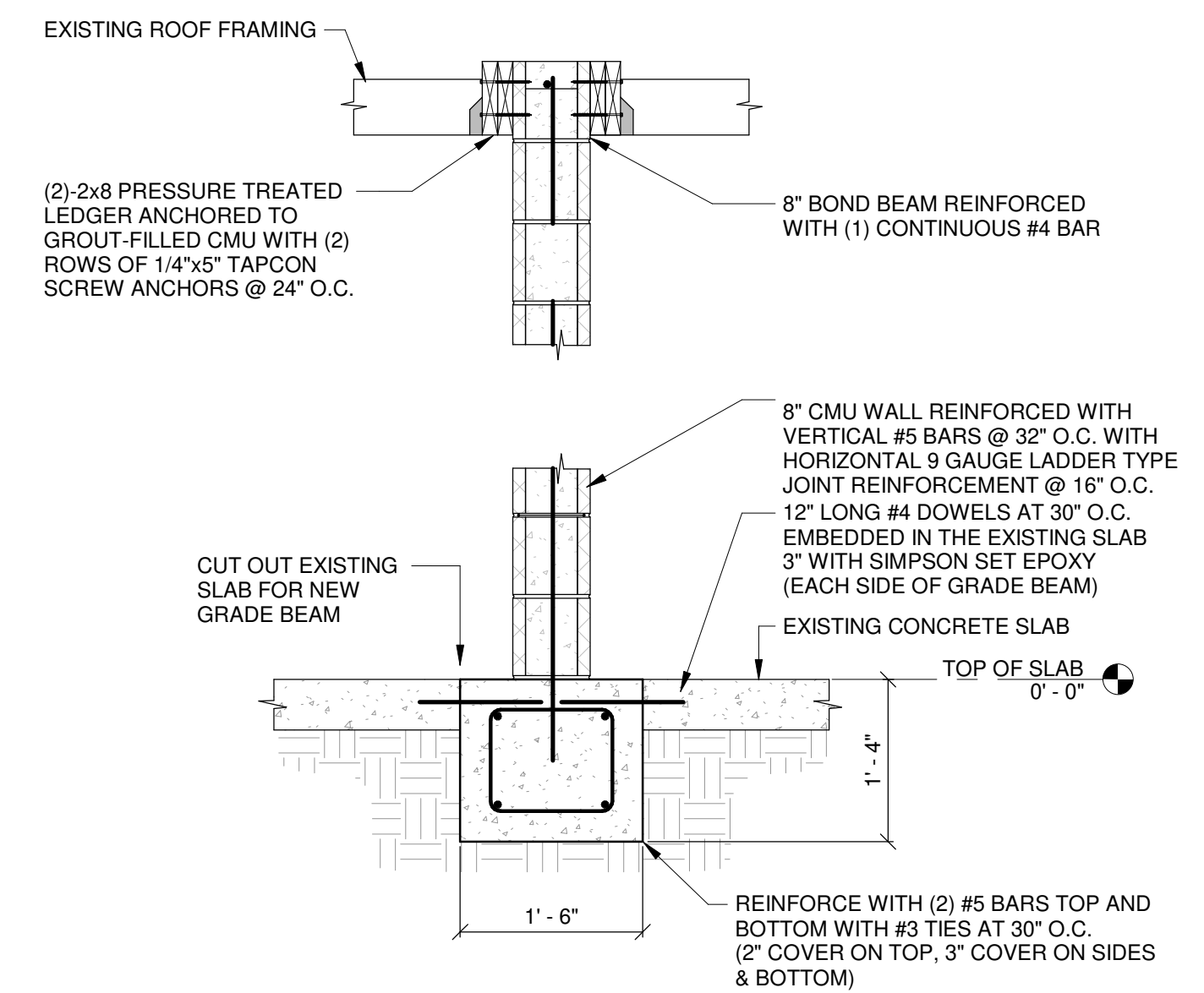
3
S2.5 CEILING FRAMING PLAN - BUILDING B (BUILDING D SIMILAR)
1/8" = 1'-0"



4
S2.5 CEILING FRAMING PLAN - BUILDING G
1/8" = 1'-0"



5
S2.5 CEILING FRAMING PLAN - BUILDING C
1/8" = 1'-0"



6
S2.5 SECTION AT NEW CMU WALLS
3/4" = 1'-0"