



CHAPPAQUA CENTRAL SCHOOL DISTRICT

DISTRICT-WIDE CAPITAL IMPROVEMENTS - NEW CONSTRUCTION & ATHLETIC UPGRADES

66 Roaring Brook Rd Chappaqua, NY 10514

ISSUE FOR BID
SEPTEMBER 16, 2024

DISTRICT-WIDE CAPITAL IMPROVEMENTS -
NEW CONSTRUCTION & ATHLETIC
UPGRADES

NYSED Project Control No.
HG: 66-10-04-06-0-015-023
AP: 66-10-04-06-7-052-001
CS: 66-10-04-06-7-027-002 (DEMO)
OB: 66-10-04-06-0-026-002 (DEMO)
SB: 66-10-04-06-0-036-007

KG+D Project No.
2023-1028

DESIGN TEAM

CONSTRUCTION DOCUMENTS



F-J BRIDGE (FOR REFERENCE - DETAIL DRAWINGS & SPECIFICATIONS TAKE PRECEDENCE OVER ARTISTIC RENDERING)



HGHS ATHLETIC PAVILION (FOR REFERENCE - DETAIL DRAWINGS & SPECIFICATIONS TAKE PRECEDENCE OVER ARTISTIC RENDERING)

HORACE GREELEY HIGH SCHOOL
70 Roaring Brook Road, Chappaqua, NY 10514
NYSED Control No. 66-10-04-06-0-015-023



HORACE GREELEY ATHLETIC PAVILION
70 Roaring Brook Road, Chappaqua, NY 10514
NYSED Control No. 66-10-04-06-7-052-001



SEVEN BRIDGES MIDDLE SCHOOL
222 Seven Bridges Road, Chappaqua, NY 10514
NYSED Control No. 66-10-04-06-0-036-007

ARCHITECT
KG+D Architects, PC
285 Main Street
Mount Kisco, NY 10549
phone: 914.666.5900

CIVIL ENGINEER
DTS Provident Design Engineering, LLP
One North Broadway
White Plains, NY 10601
phone: 914.428.0010

STRUCTURAL ENGINEER
The Di Salvo Engineering Group, Inc
93 Lake Avenue, Suite 201
Danbury, CT 06810
phone: 203.490.4140

SYSTEMS ENGINEER
Barile Gallagher & Associates Consulting Engineers, PC
39 Marble Avenue
Pleasantville, NY 10570
phone: 914.328.6060

SPECIFICATIONS CONSULTANT
Sue McClymonds
200 Robb Road
Amsterdam, NY 12010
phone: 518.843.4054

LIST OF DRAWINGS

G000 COVER

CODE COMPLIANCE
CC001 CODE COMPLIANCE
CC002 CODE COMPLIANCE

CIVIL
C100-SB SEVEN BRIDGES MIDDLE SCHOOL SITE IMPROVEMENT PLAN
C301-SB SEVEN BRIDGE MIDDLE SCHOOL SITE DETAILS
C100-HG HORACE GREELEY HIGH SCHOOL SITE IMPROVEMENT PLAN
C201-HG HORACE GREELEY HIGH SCHOOL SITE PART PLANS
C301-HG HORACE GREELEY HIGH SCHOOL SITE DETAILS
C302-HG HORACE GREELEY HIGH SCHOOL SITE DETAILS

STRUCTURAL
S001-HG GENERAL NOTES & MATERIAL SPECIFICATIONS
S101-HG HORACE GREELEY F-J BRIDGE PARTIAL FOUNDATION, FLOOR & ROOF PLAN
S210-HG SECTIONS
S001-AP GENERAL NOTES & MATERIAL SPECIFICATIONS
S101-AP FIRST FLOOR SLAB-ON-GRADE & FOUNDATION PLAN
S102-AP MEZZANINE & LOW ROOF FRAMING PLAN
S103-AP ROOF FRAMING PLAN
S201-AP FOUNDATION SCHEDULES & TYPICAL DETAILS
S202-AP FOUNDATION SCHEDULES & TYPICAL DETAILS
S210-AP ATHLETIC PAVILION FOUNDATION SECTIONS
S310-AP ATHLETIC PAVILION FRAMING SECTIONS
S401-AP MASONRY SCHEDULE & TYPICAL DETAILS

ARCHITECTURAL
A301-HG HORACE GREELEY F-J BRIDGE PLANS
A302-HG HORACE GREELEY F-J BRIDGE ELEVATIONS & SECTIONS
A303-HG HORACE GREELEY F-J BRIDGE CEILING PLANS & DETAILS
A401-AP ATHLETIC PAVILION PLANS
A402-AP ATHLETIC PAVILION PLANS & ELEVATIONS
A403-AP ATHLETIC PAVILION SCHEDULES & DETAILS

PLUMBING
P201-AP ATHLETIC PAVILION FLOOR PLANS

MECHANICAL
H001-AP LEGEND, NOTES & ABBREVIATIONS
H201-AP ATHLETIC PAVILION FLOOR PLANS (NEW WORK)
H301-AP SCHEDULES & DETAILS

ELECTRICAL
E001 LEGENDS, NOTES & ABBREVIATIONS
E201-AP ATHLETIC PAVILION POWER & LIGHTING PLAN
E202-AP ATHLETIC PAVILION SITE PLAN
E203-HG HORACE GREELEY F-J BRIDGE LIGHTING & FA PLAN
E501-AP ATHLETIC PAVILION RISER & SCHEDULE
E701 DETAILS
Sheet total: 37

PROJECT SCOPE DESCRIPTION

HORACE GREELEY HIGH SCHOOL:
BUILDING DEMOLITION
-300sf CONCESSION STAND (CS)
-265sf OBSERVATORY (OB)

NEW CONSTRUCTION
-HGHS ATHLETIC PAVILION
-2,910sf FIELD RESTROOM, SNACK STAND & STORAGE BUILDING
-RECONSTRUCTION OF F-J BRIDGE

SEVEN BRIDGES MIDDLE SCHOOL:
BASEBALL FIELD UPGRADES

COVER

G000

DISTRICT-WIDE
CAPITAL IMPROVEMENTS
NEW CONSTRUCTION
& ATHLETIC
UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D

listen
imagine
build

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10949
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

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Key Plan
Horace Greeley High School

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Professional Seal

4	09/16/2024	ISSUE FOR BID
3	10/27/2023	SED ISSUE
No.	Date	Issue

Sheet Title

CODE
COMPLIANCE

Job No.
2023-1028

Date
10/27/2023

Scale
AS NOTED

Drawn / Checked
-/-

Sheet Number

CC002

LEGEND

20 OCC

OCCUPANCY = 20 PERSONS

EXIT CAPACITY

ACTUAL EGRESS CAPACITY OF DOOR OR STAIR
MAX. ALLOWABLE EGRESS CAPACITY

DIRECTION OF TRAVEL

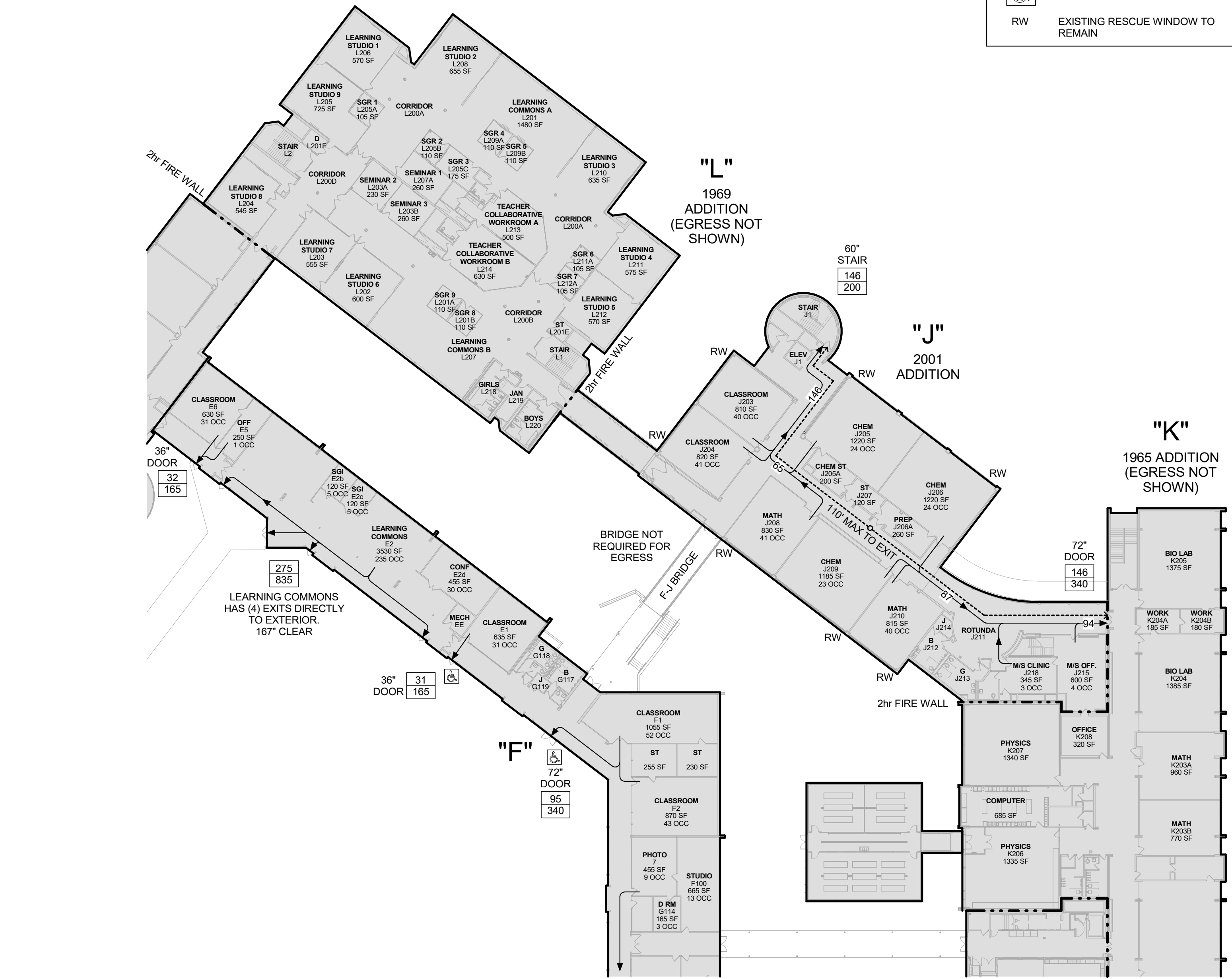
MAXIMUM TRAVEL DISTANCE
(FROM MOST REMOTE POINT TO EXIT)

1 HOUR FIRE RATED SEPARATION

2 HOUR FIRE RATED SEPARATION

ACCESSIBLE AREA OR EXIT

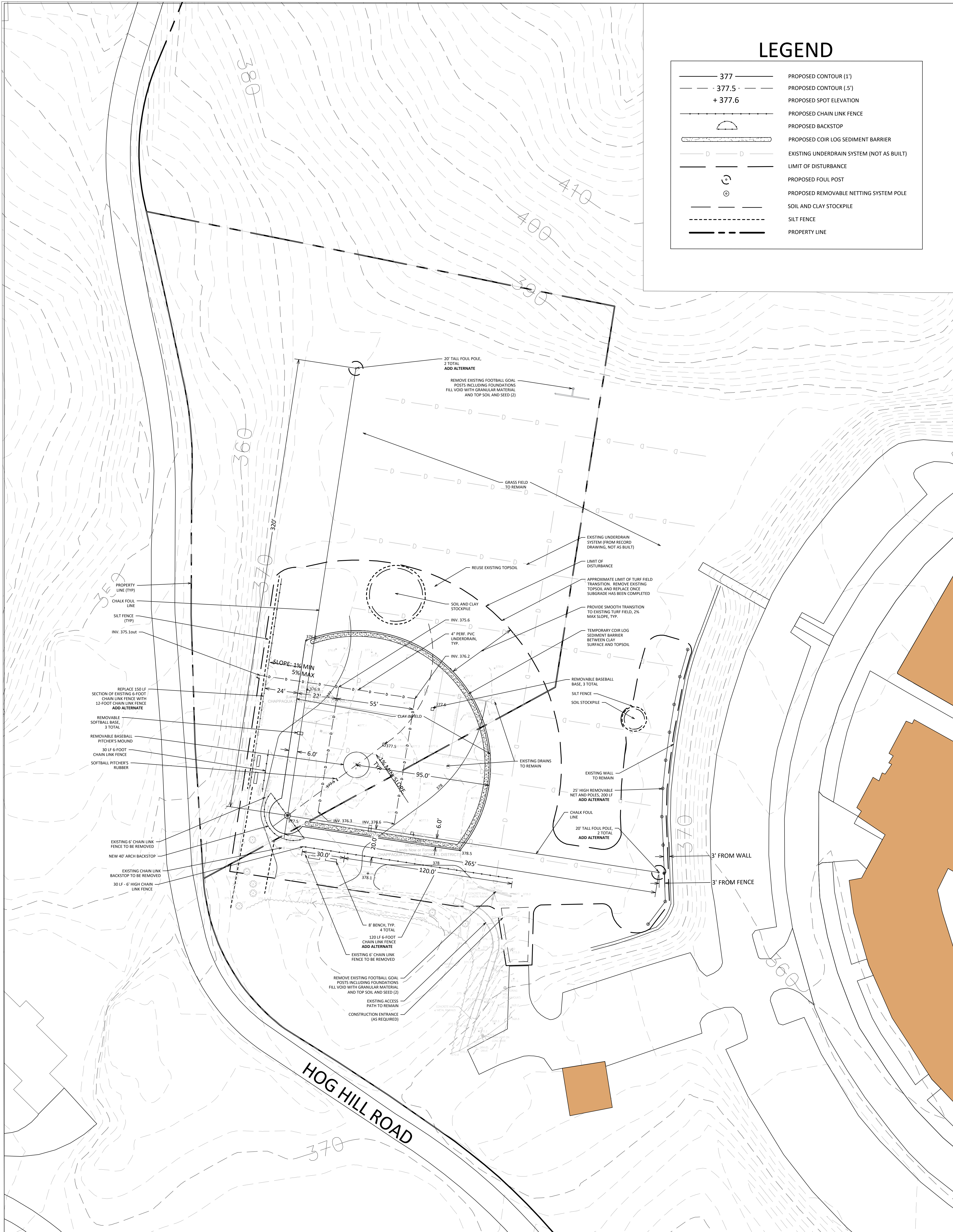
EXISTING RESCUE WINDOW TO REMAIN



EGRESS PLAN AT F-J BRIDGE - MAIN LEVEL
1/32" = 1'-0"

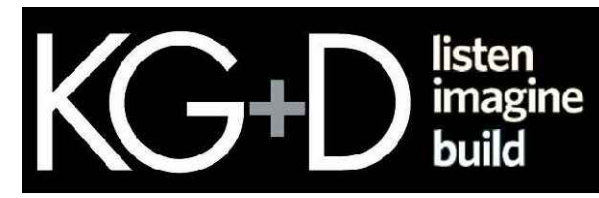


EGRESS PLAN AT F-J BRIDGE - LOWER LEVEL
1/32" = 1'-0"



DISTRICT-WIDE
CAPITAL IMPROVEMENTS
NEW CONSTRUCTION
& ATHLETIC
UPGRADES

CHAPPAQUA CENTRAL
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66 Roaring Brook Road
Chappaqua, NY 10514



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CONSTRUCTION DOCUMENTS

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SB: 66-10-04-06-0-036-007

DTS • PROVIDENT
Intelligent Land Use

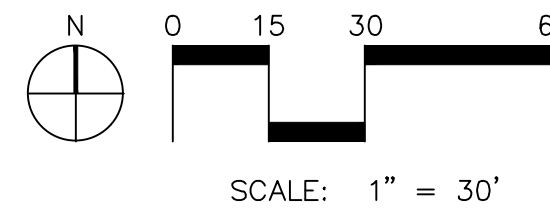
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Gallas Surveying Group
2865 U.S. Route 1
North Brunswick, NJ 08902



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Key Plan

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No.	Date	Issue
4	09/16/2024	ISSUE FOR BID
3	10/27/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

SEVEN BRIDGES
MIDDLE SCHOOL
SITE IMPROVEMENT
PLAN

Job No.

2023-1028

Date

09/09/2023

Scale

1"=20'

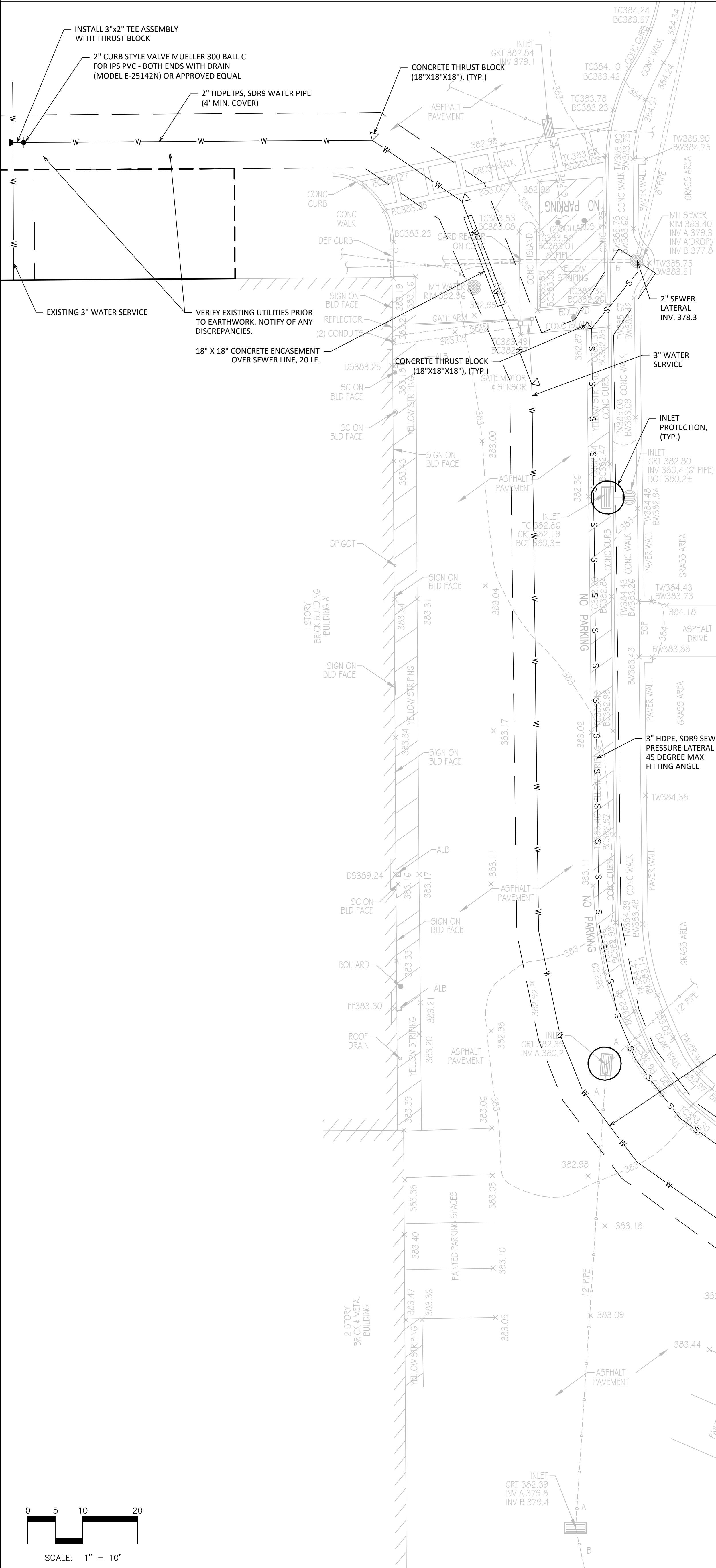
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MJS,BDZ/GMS

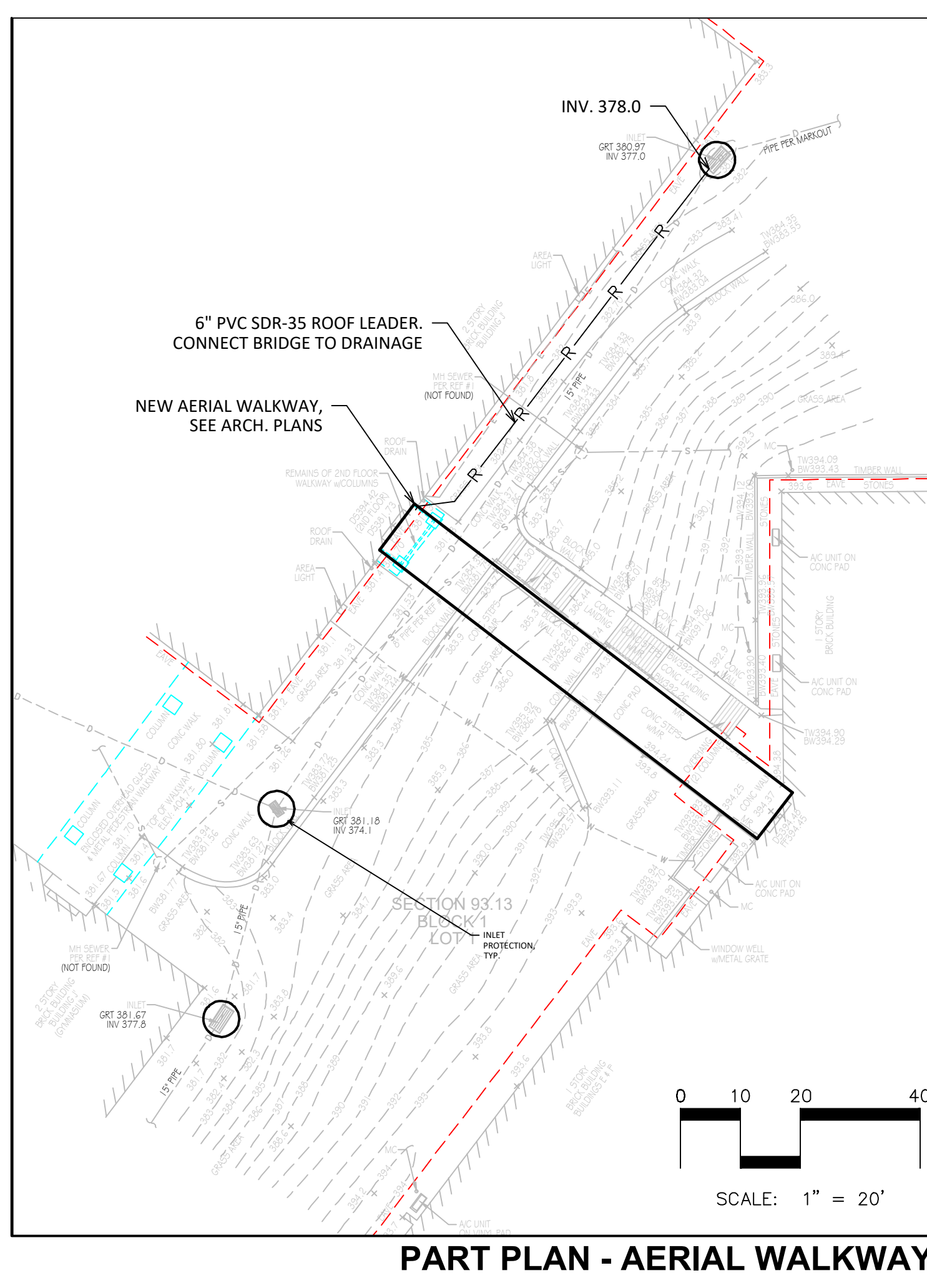
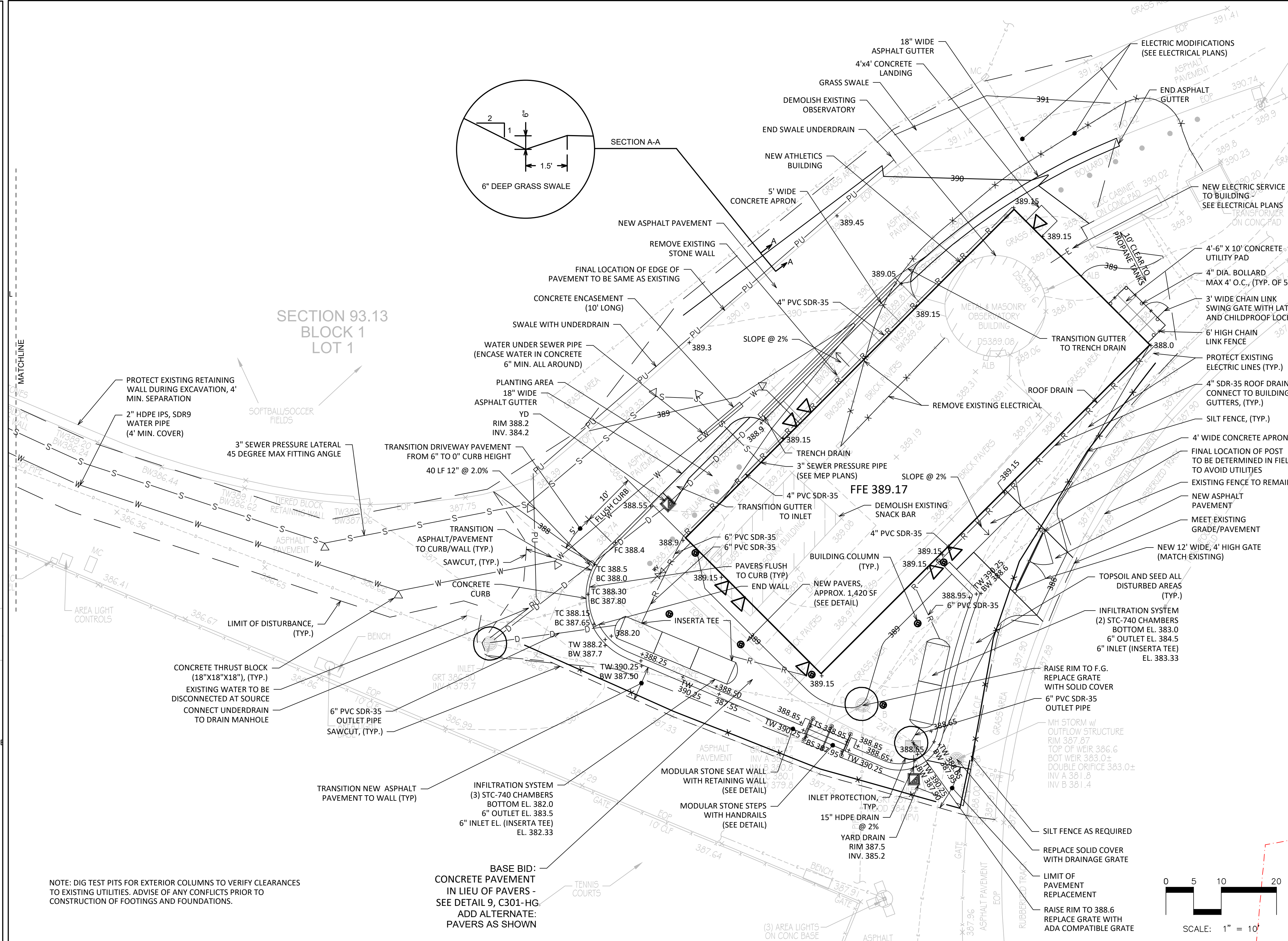
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C100-SB

PART PLAN - UTILITIES



PART PLAN - ATHLETICS BUILDING



DISTRICT-WIDE
CAPITAL IMPROVEMENTS

NEW CONSTRUCTION
& ATHLETIC
UPGRADES

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CONSTRUCTION DOCUMENTS

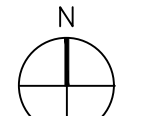
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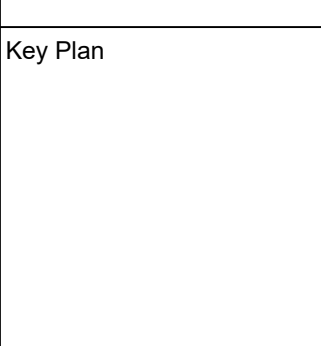
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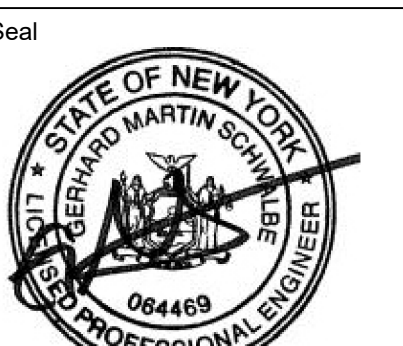
Key Plan



SCALE: 1" = 10'

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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

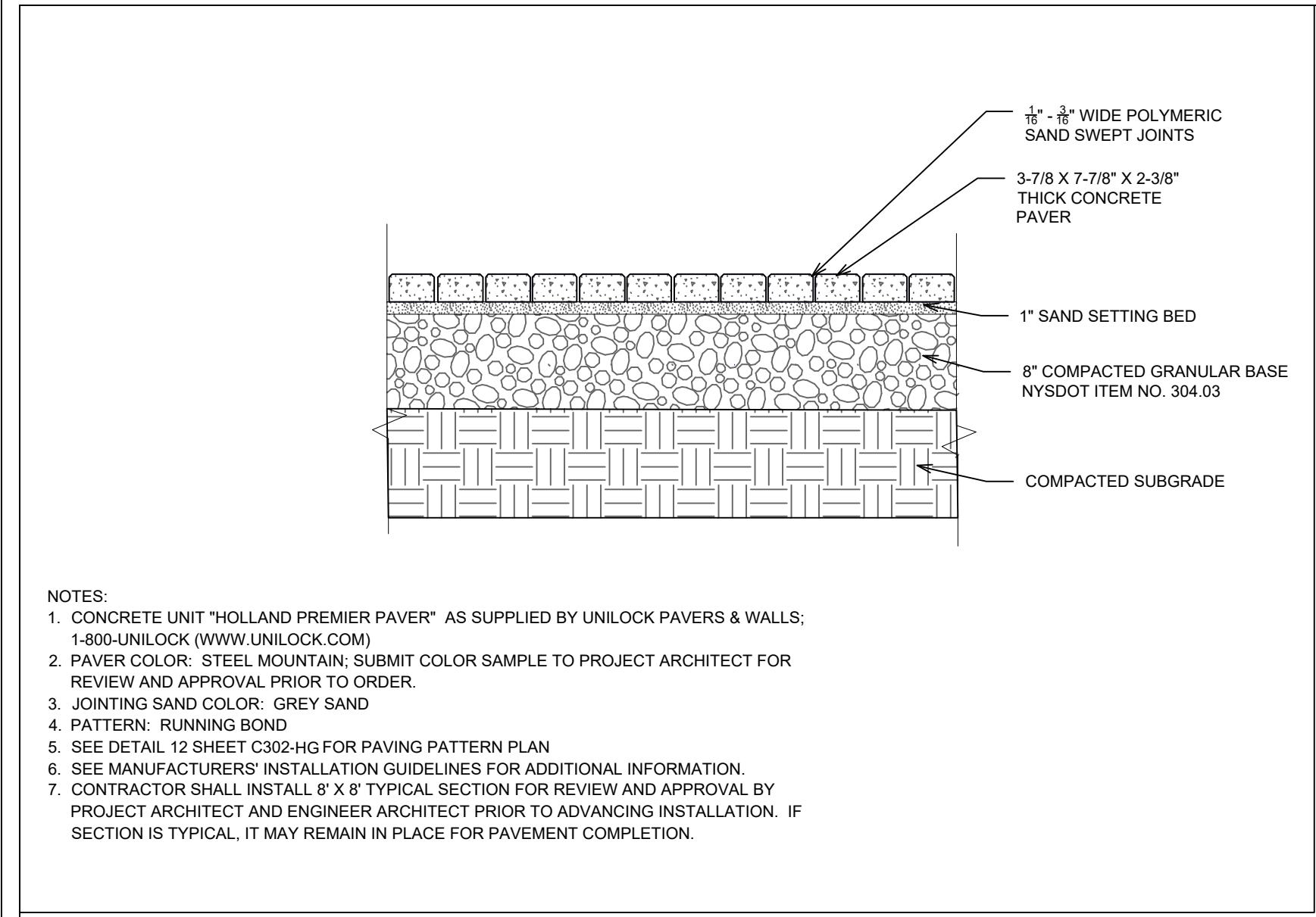
**HORACE GREELEY
HIGH SCHOOL
SITE PART PLANS**

Job No.	Sheet Number
2023-1028	C201-HG

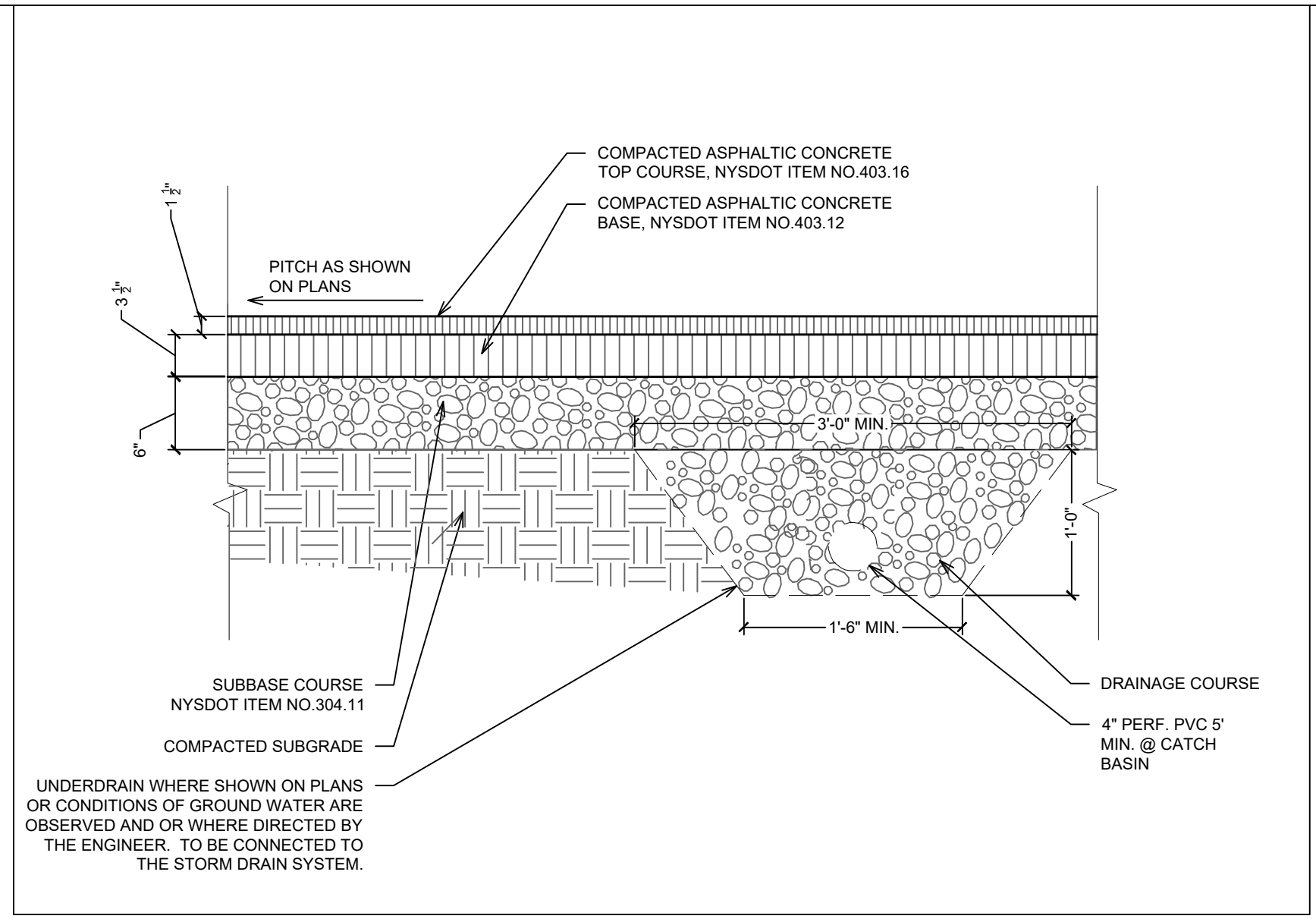
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09/09/2023

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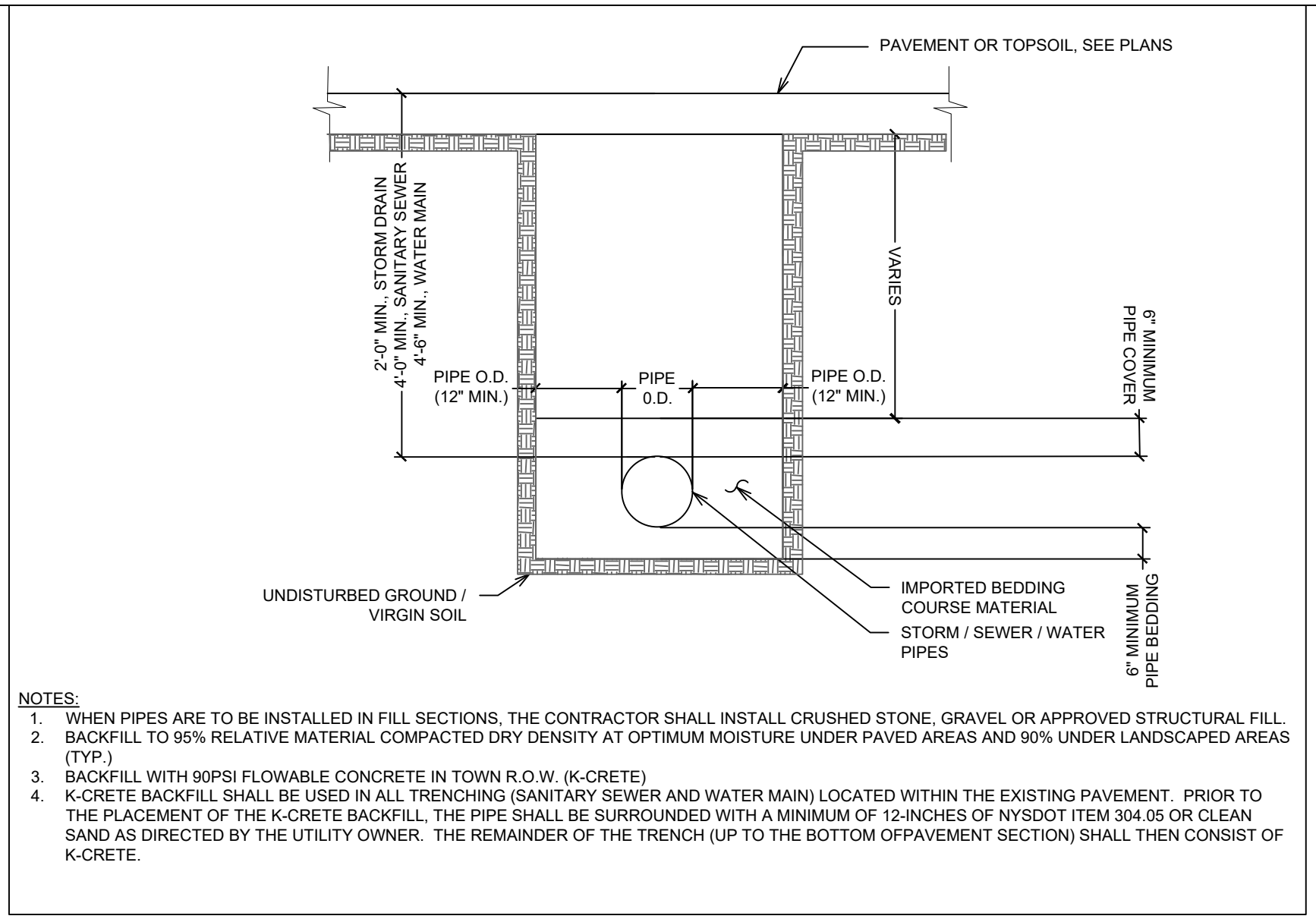
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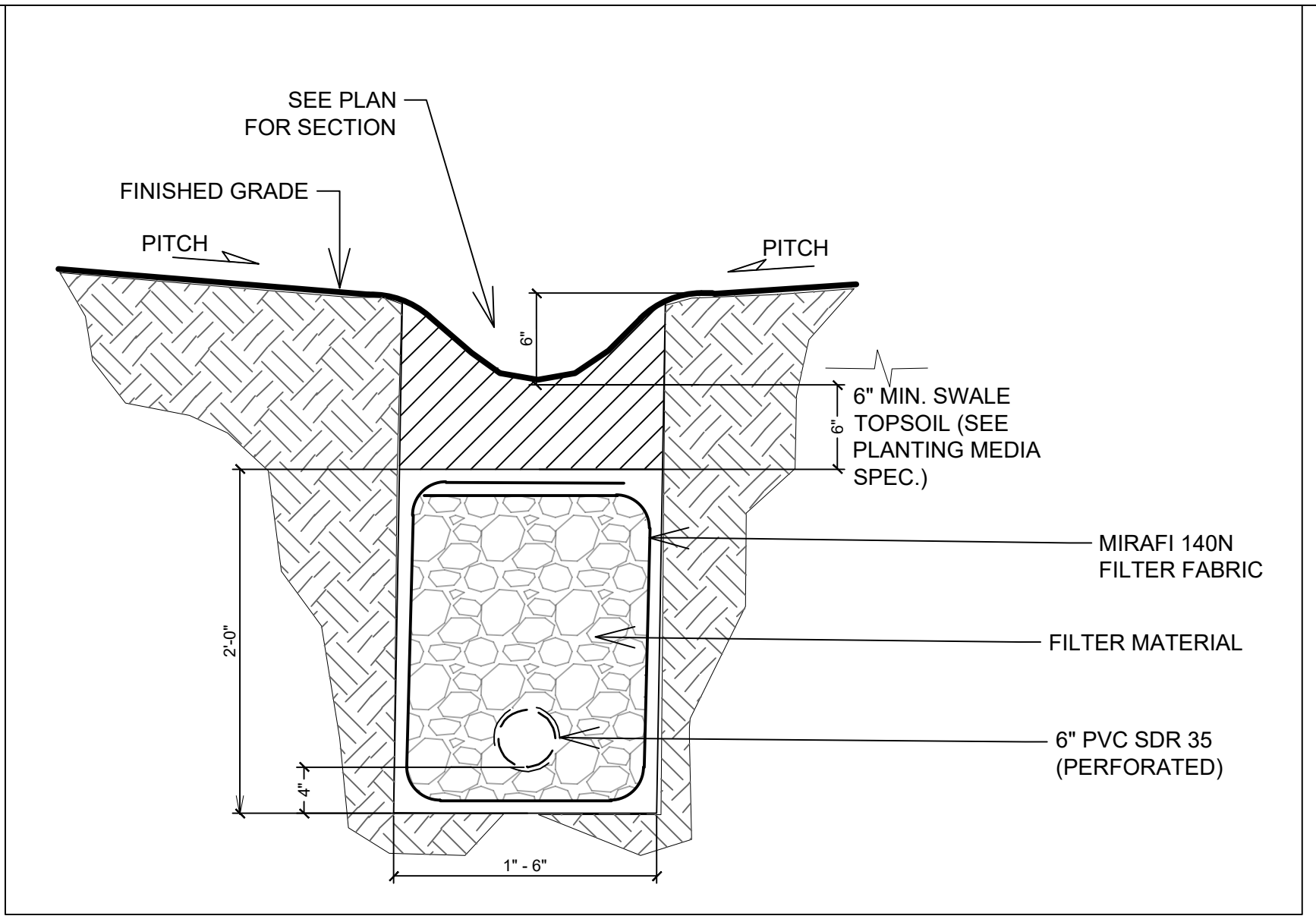
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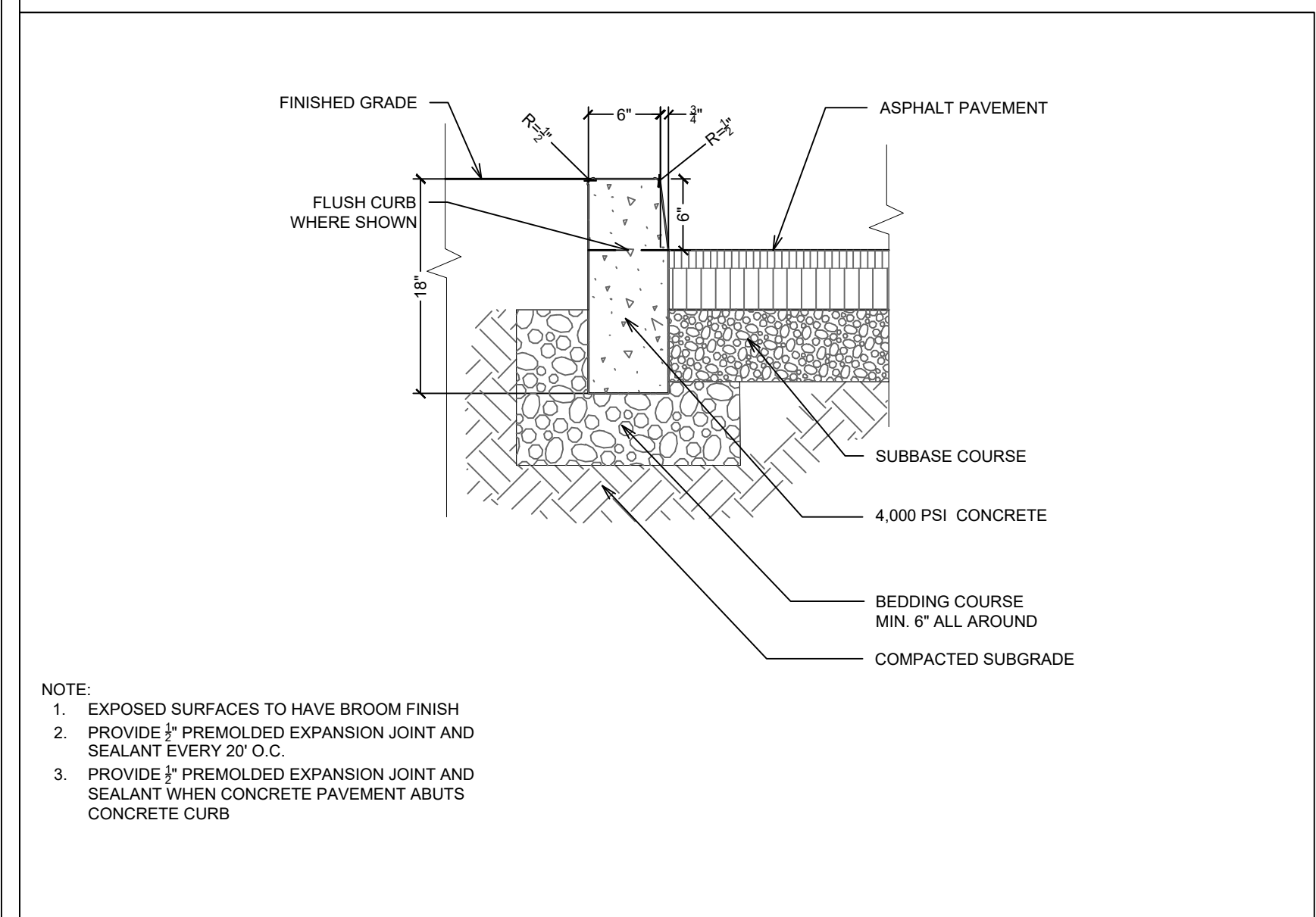
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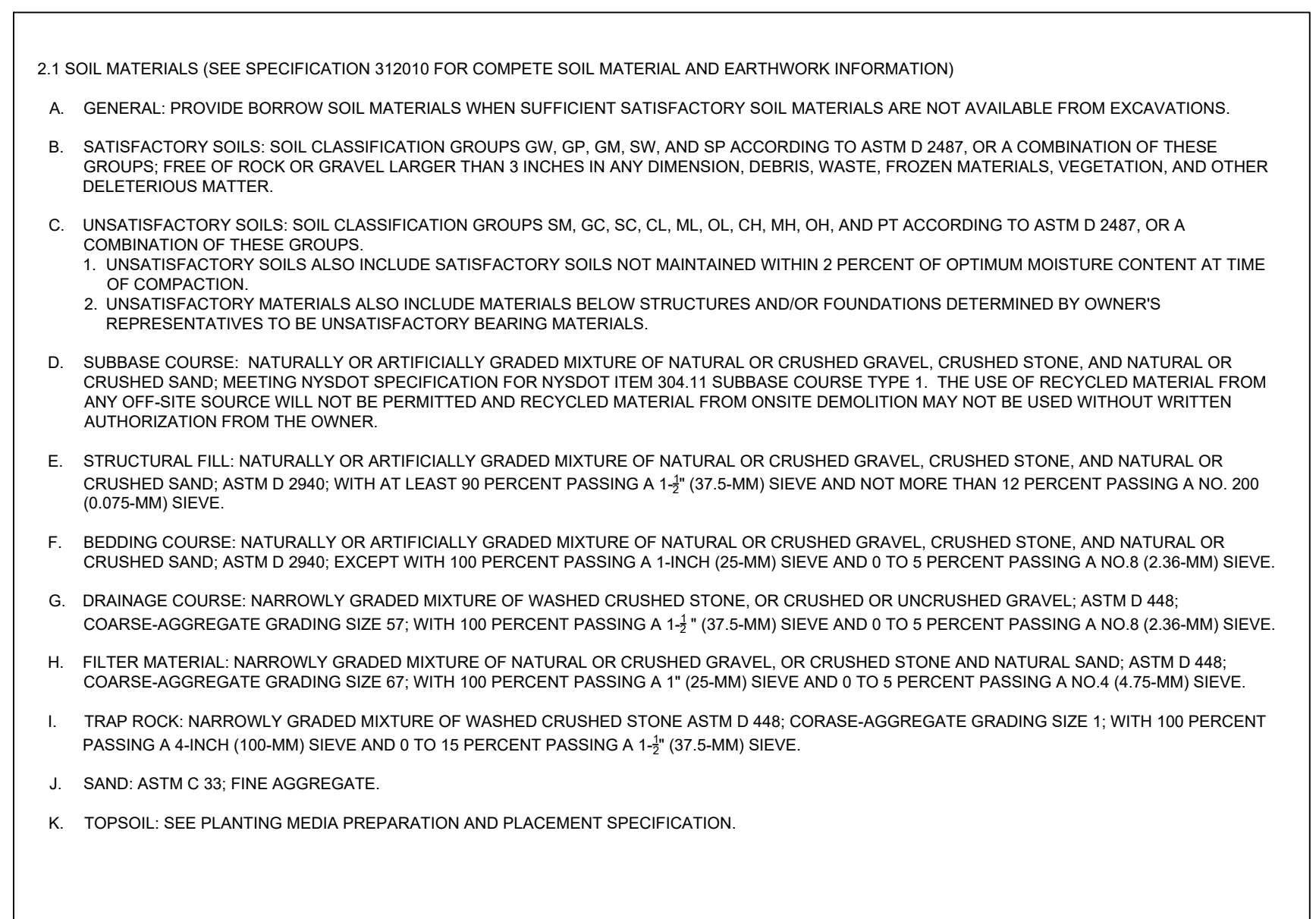
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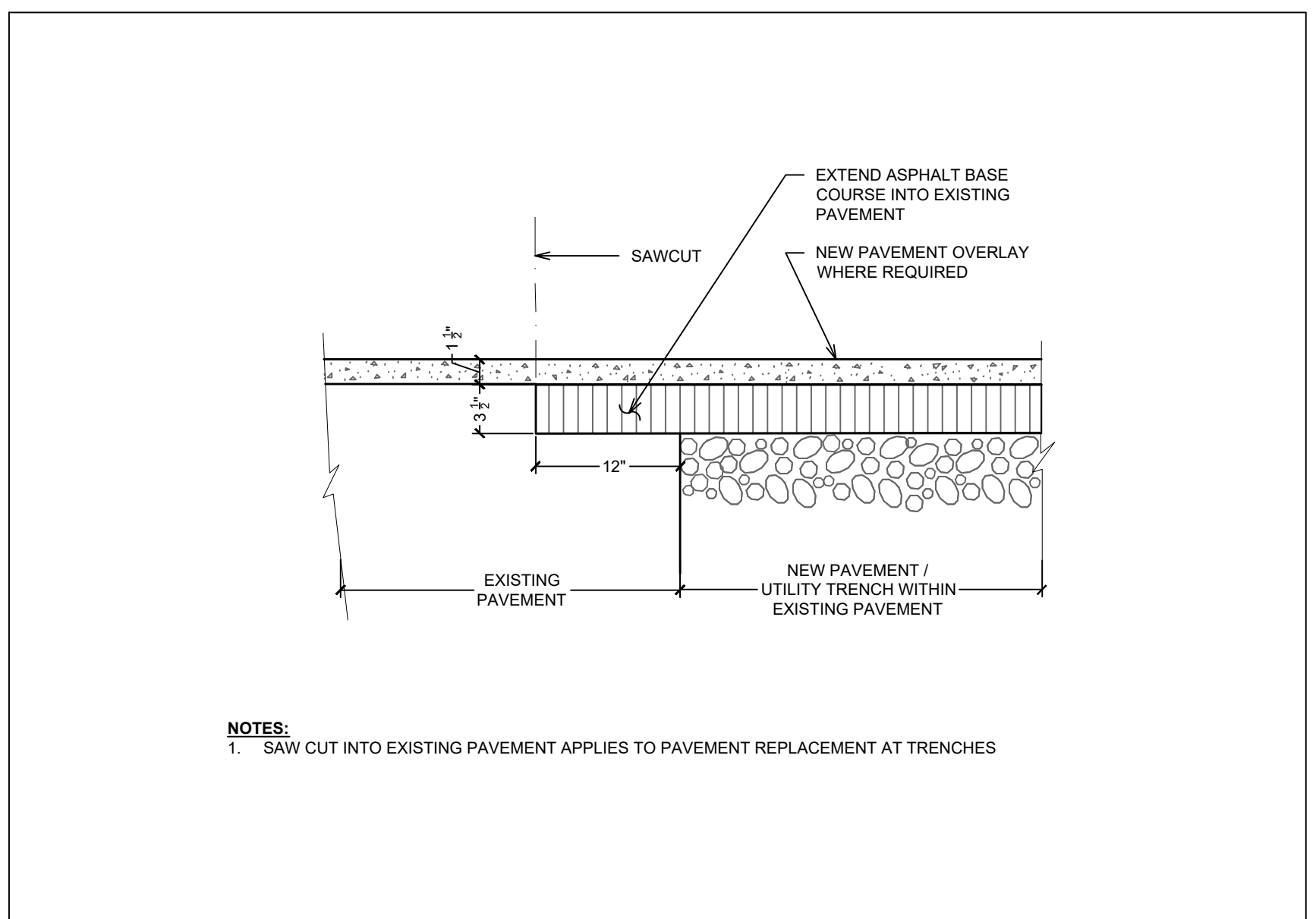
GRASS SWALE WITH UNDERDRAIN PIPE
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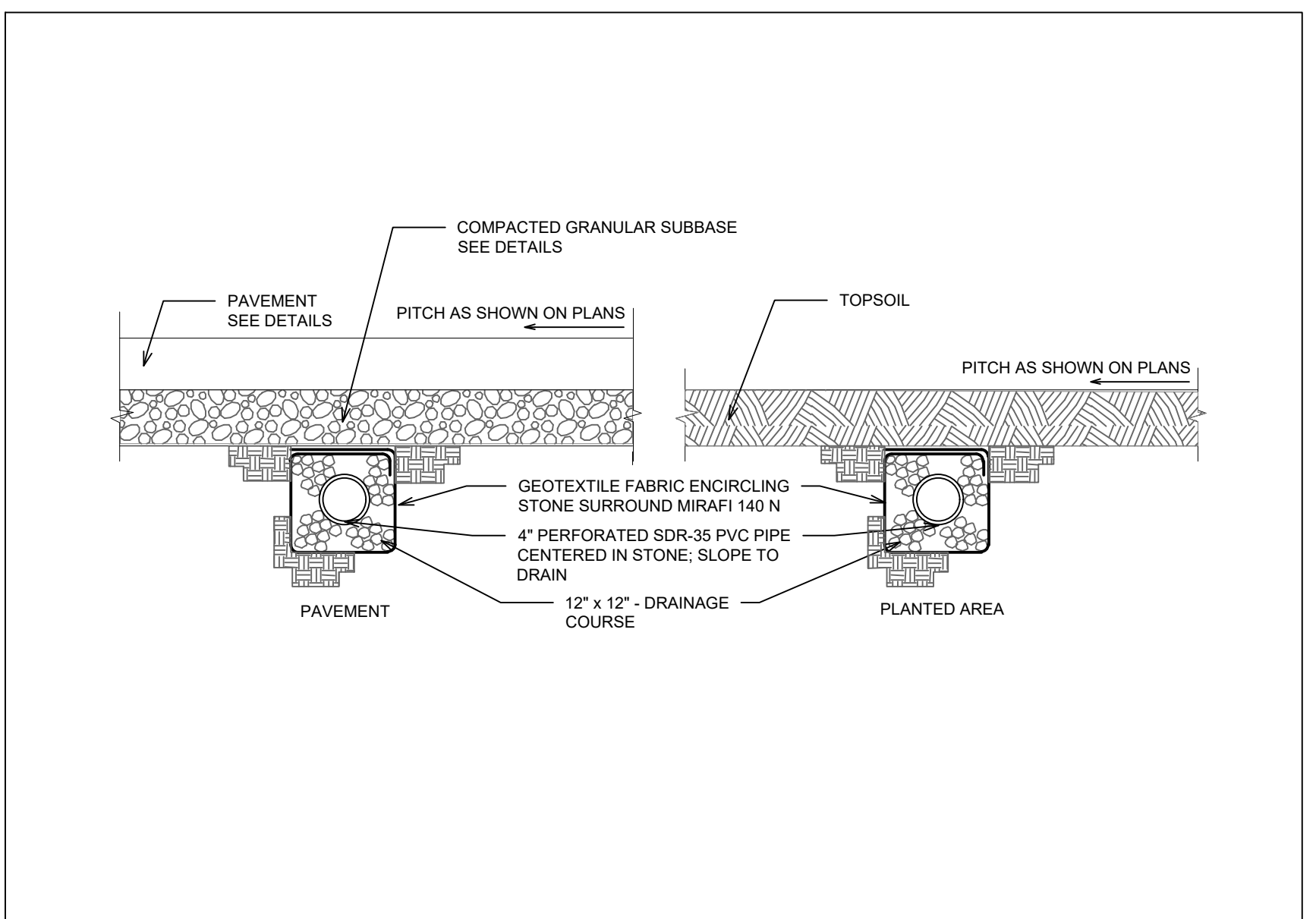
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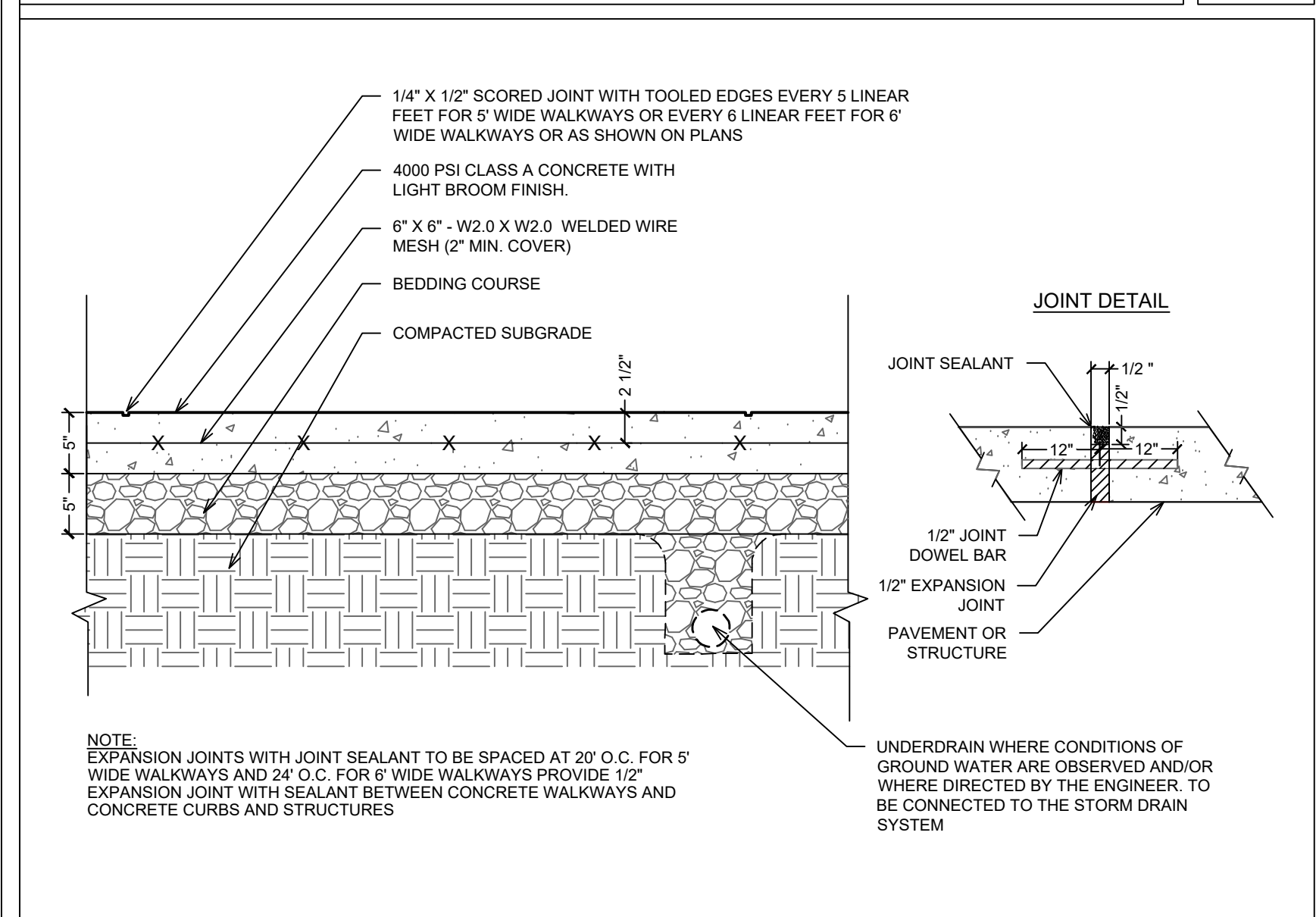
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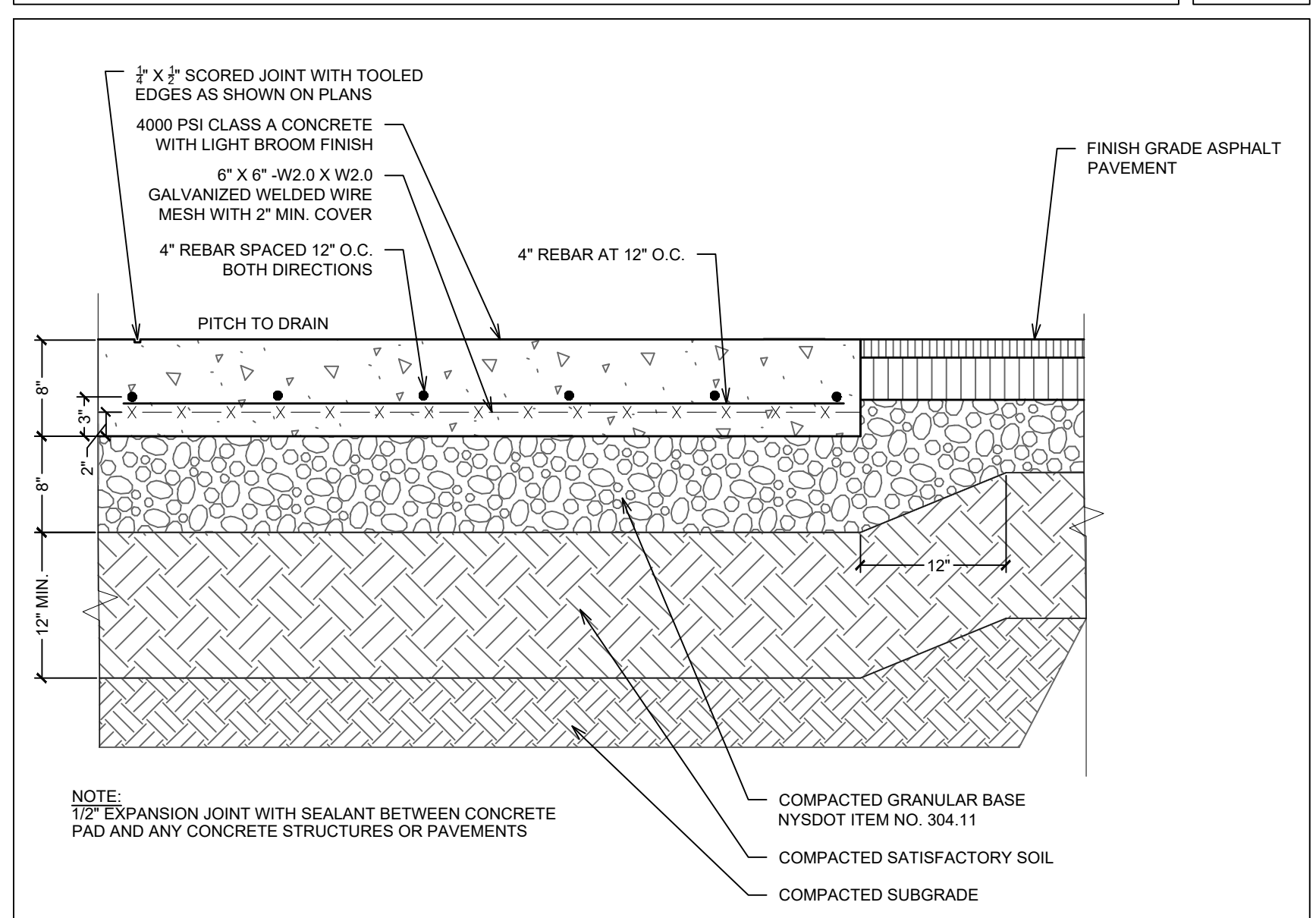
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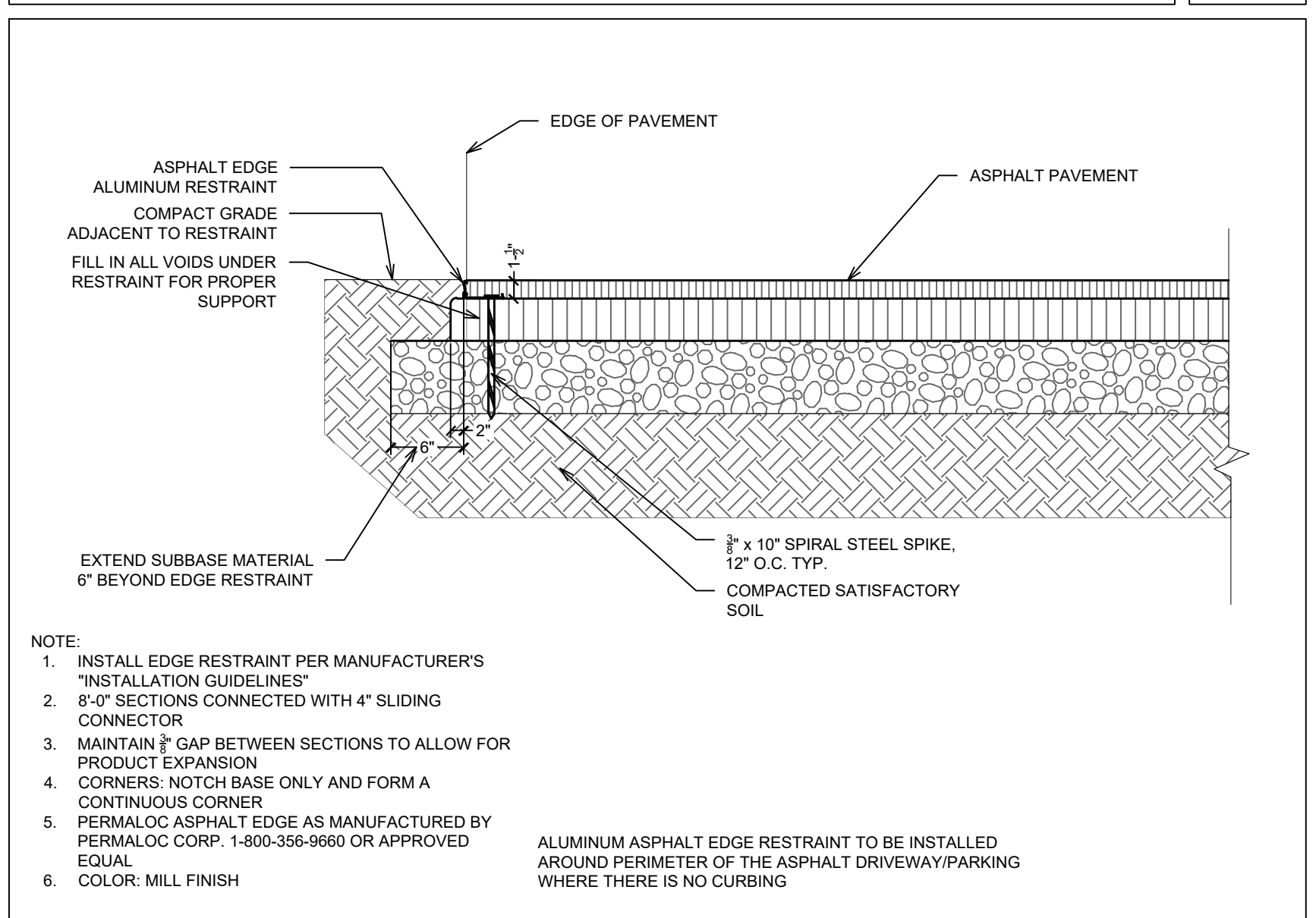
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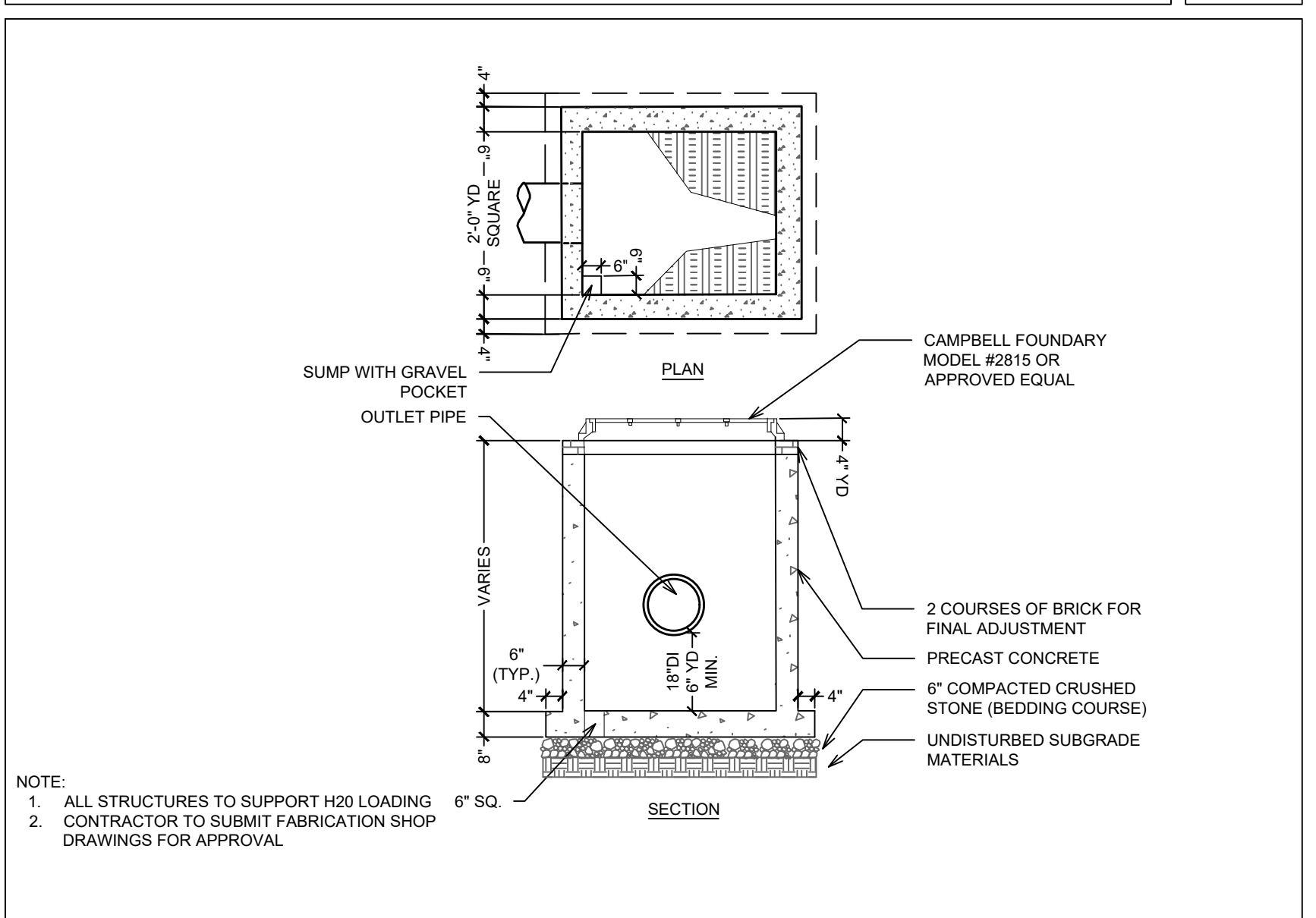
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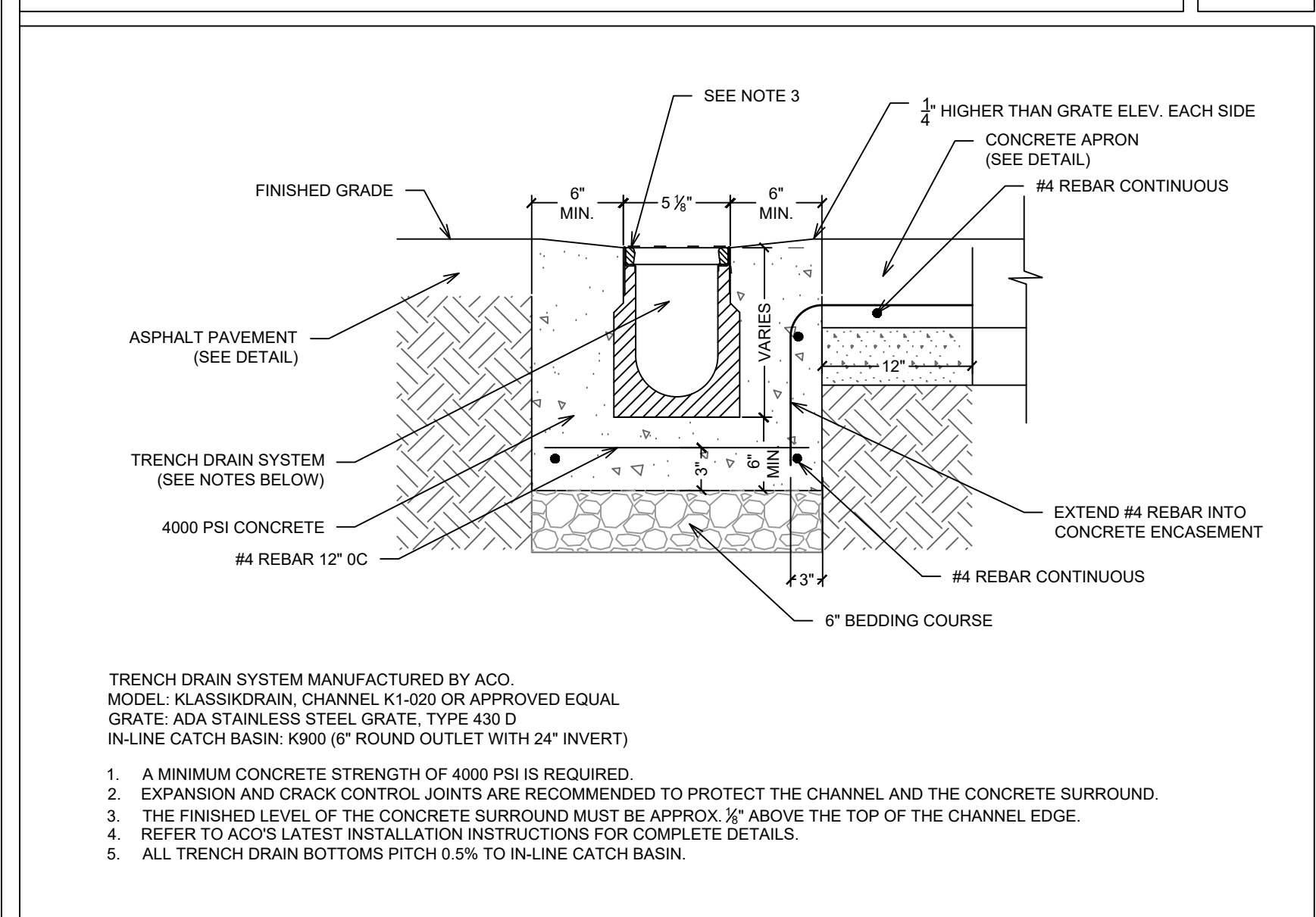
CONCRETE UTILITY PAD / APRON
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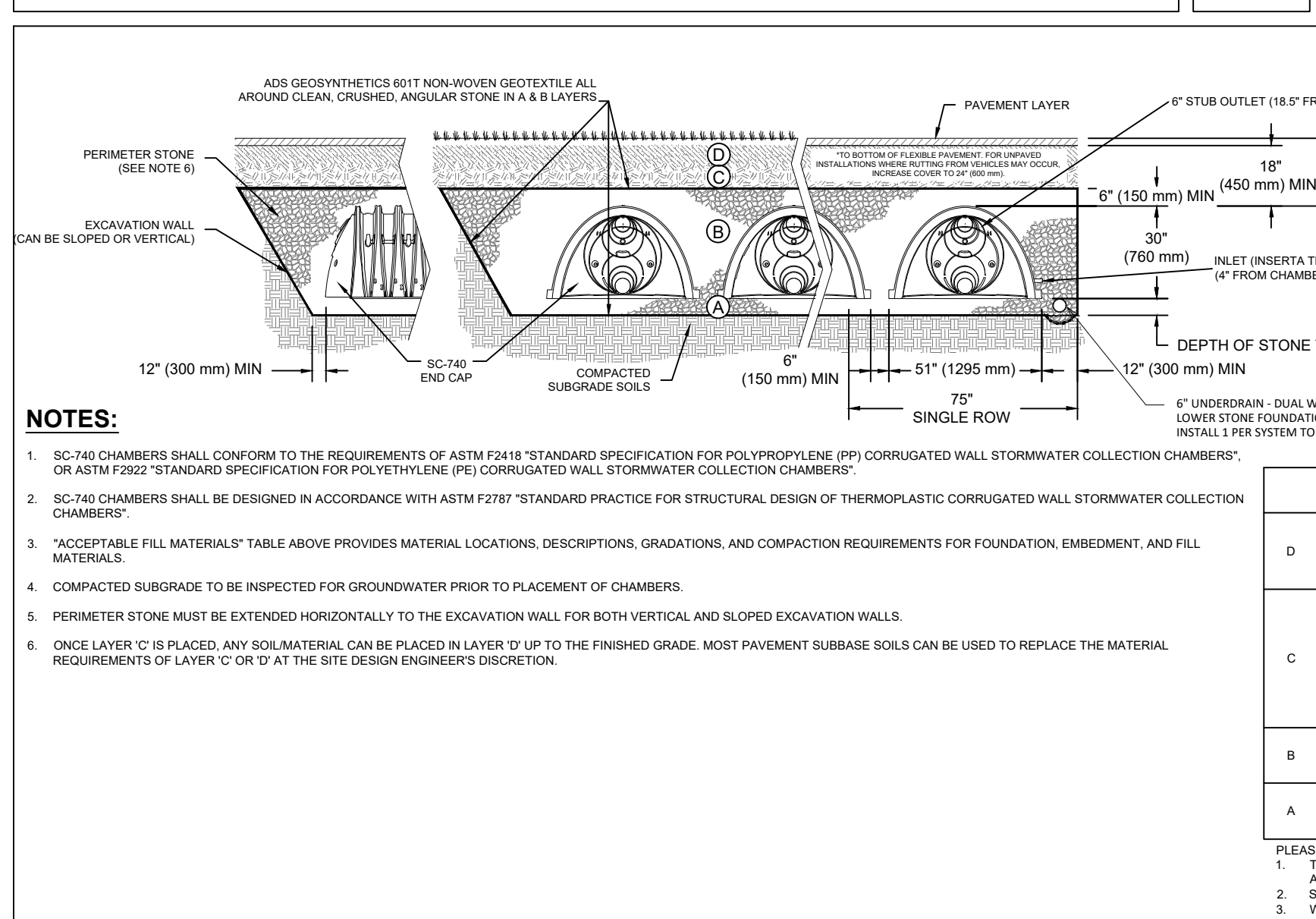
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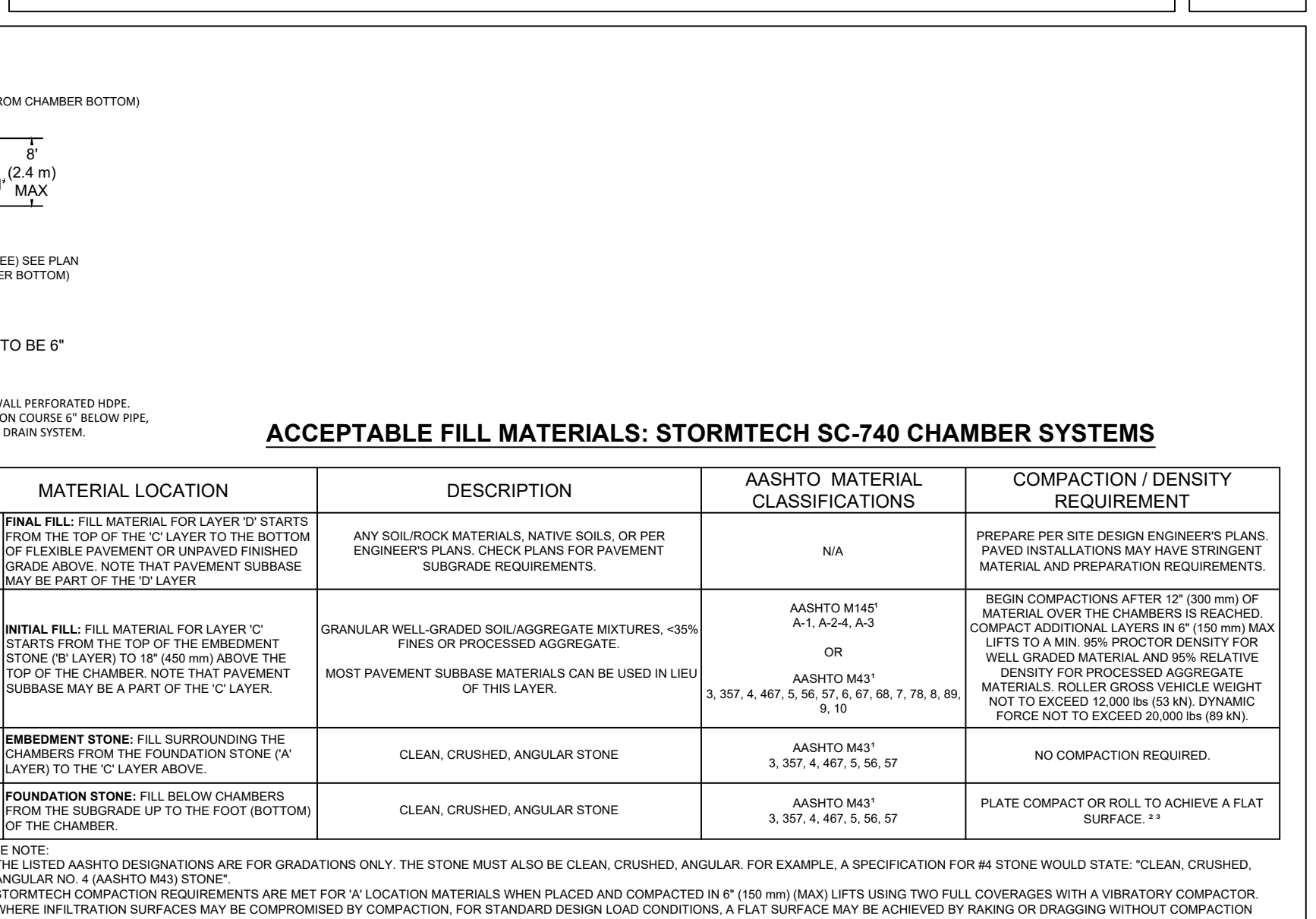
YARD DRAIN (YD)
SCALE: N.T.S.



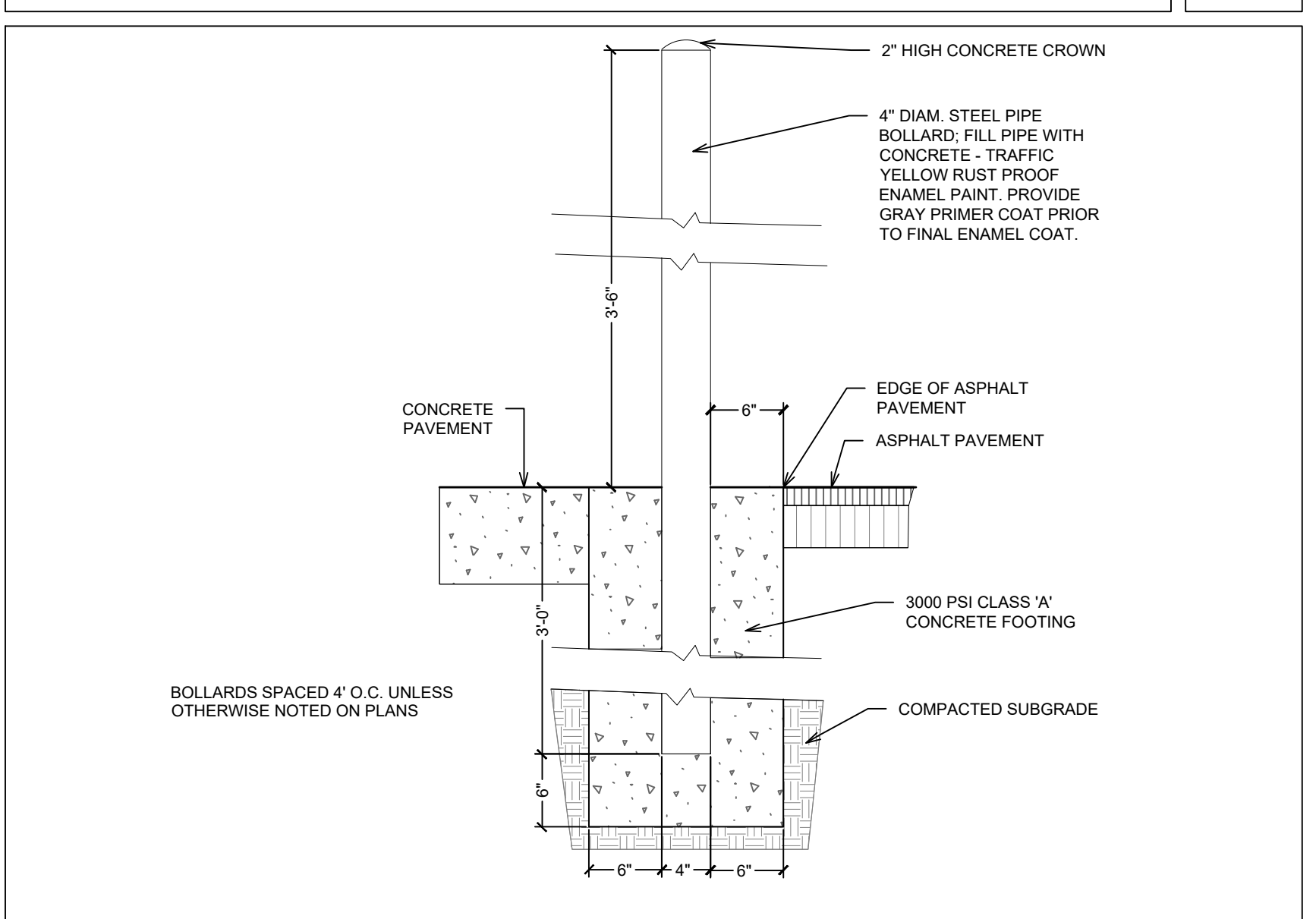
TRENCH DRAIN
SCALE: N.T.S.



UNDERGROUND INFILTRATION SYSTEM
SCALE: N.T.S.



UNDERGROUND INFILTRATION SYSTEM
SCALE: N.T.S.



CONCRETE FILLED UTILITY BOLLARD - 4\"/>

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

NEW CONSTRUCTION
& ATHLETIC
UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D listen
imagine
build

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285 MAIN STREET / MOUNT KISCO, NEW YORK, 10901
P: 914.666.9900
KGDARCHITECTS.COM

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DTS • Provident
Intelligent Land Use

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EXPIRES 1/31/27

4 09/16/2024 ISSUE FOR BID
3 10/27/2023 SED ISSUE
2 08/31/2023 ISSUE FOR PRICING - 90% CD
1 06/10/2023 SCHEMATIC DESIGN

No. Date Issue

Sheet Title

HORACE GREELEY
HIGH SCHOOL
SITE DETAILS

Job No. 2023-1028

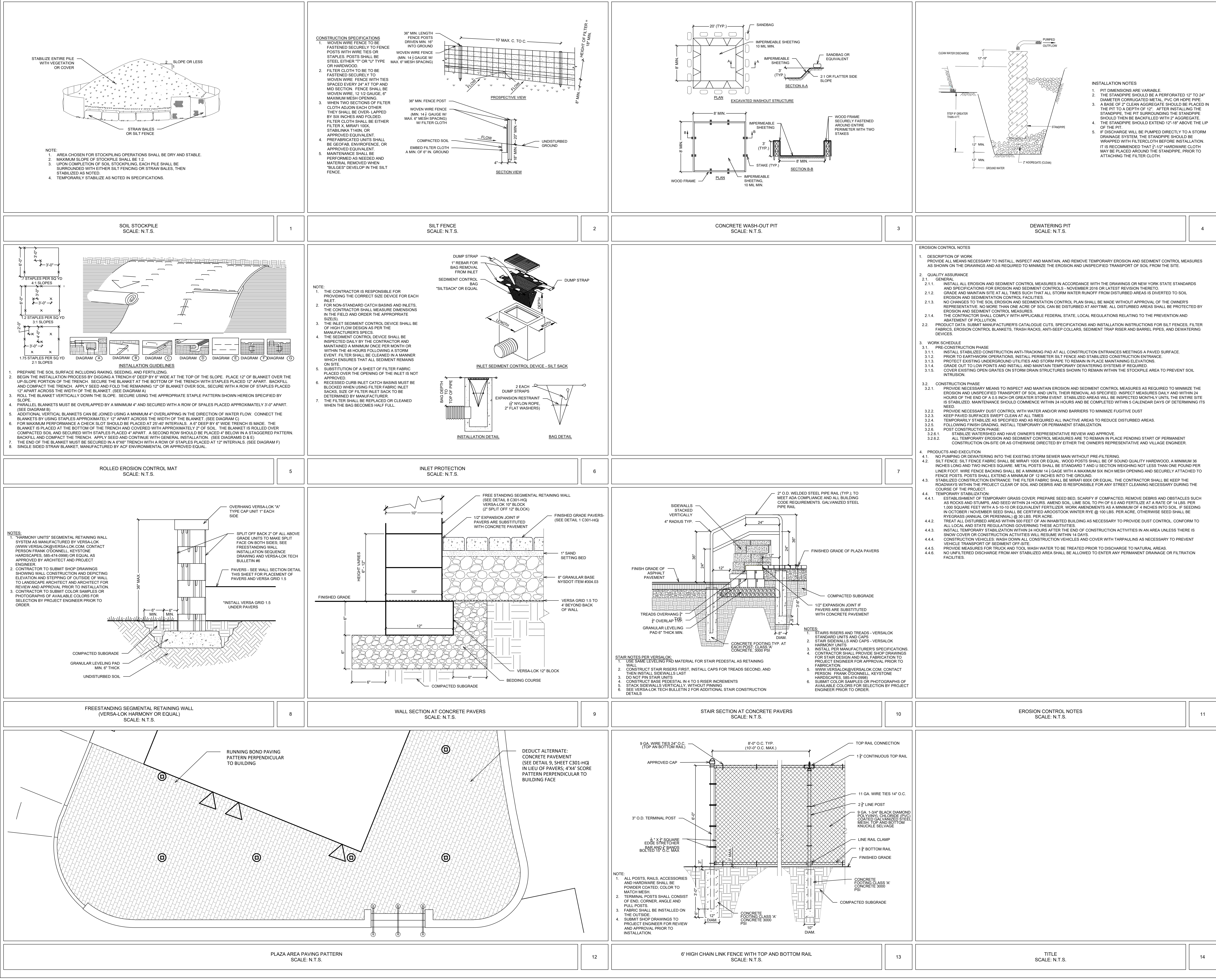
Sheet Number

Date 09/09/2023

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Drawn / Checked MJS,BDZ/GMS

C301-HG



DISTRICT-WIDE
CAPITAL IMPROVEMENTS
NEW CONSTRUCTION
& ATHLETIC
UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET MOUNT KISCO, NEW YORK 10549
P: 914.666.5900
KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
AP: 66-10-04-06-7-052-001
CS: 66-10-04-06-7-027-002
OB: 66-10-04-06-0-026-002
SB: 66-10-04-06-0-036-007

DTS + PROVIDENT
Intelligent Land Use
DTS Provident Design Engineering, LLP
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CA # 0017446

SURVEYOR

Gallus Surveying Group
2865 U.S. Route 1
North Brunswick, NJ 08902



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§ 1600-REG 7062 (b) & (c)

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General Notes:

- 1 The purpose of these drawings is to show the structural work associated with footbridge between building F & J at the Horrace Greeley High School, 70 Roaring Brook Road, Chappaqua, NY.
- 2 The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State.
- 3 The structural components have been designed for the following loads:
- Schools
- Corridors 100 psf
- A. Roof loads:
- Snow:
- Ground snow load, p_g 30 psf
- Flat roof snow load, p_f 30 psf*
- Exposure factor, C_e 1.0
- Importance factor, I_s 1.0
- Thermal factor, C_t 1.2
- Drift surcharge load, p_d N/A
- Width of snow drift, W N/A
- Rain loads: in accordance with Section 1611
- Rainfall intensity (100-year 15-minute interval), i 6.00 in./hr
- Roof live load: 20 psf
- *Note: the flat roof snow load shall be no less than 30 psf
- B. Wind design data:
- Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-16, Chapters 26, 27, 29 and 30, Directional Procedure
- Basic Design Wind Speed (3-second gust): V 114 mph
- Allowable Stress Design Wind Speed, V_{asd} 89 mph
- Risk category II
- Wind Exposure C
- Internal pressure coefficient 0.0
- "a" dimension for use with components and cladding 3.0 ft
- C. Earthquake design data:
- Risk category II
- Seismic importance factor, I_e 1.0
- Mapped short period spectral response accelerations, S_{s1} 0.286g
- Mapped 1 second period spectral response accelerations, S_{s1} 0.061g
- Site class: D
- Design short period spectral response accelerations, S_{DS} 0.299g
- Design 1 second period spectral response accelerations, S_{D1} 0.097g
- Seismic design category: B
- Seismic force resisting system: Structural steel systems not specifically detailed for seismic resistance
- Design base shear: 1.5 KIPS
- Seismic response coefficient, C_s 0.100
- Response modification factor, R 3.0
- Deflection amplification factor, C_d 3.0
- Analysis procedure: Equivalent Lateral Force
- D. Other loads:
- Concentrated loads
- All other primary roof members 300 lbs
- E. Special loads:
- Retaining walls
- Lateral equivalent fluid pressure 35 pcf
- Seismic load (h = height of wall) 5.5 h²
- F. Guardrails (load applied in any direction):
- Top rail concentrated 200 lbs
- or
- Top rail uniform load 50 plf
- Intermediate rail concentrated load 50 lbs
- 4 This structure has been designed to be self-supporting and stable after the construction of the building has been completed. The stability of the structure prior to completion is solely the responsibility of the contractor. This responsibility extends to all related aspects of the construction activity including, but not limited to, erection methods, erection sequence, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's construction procedures. Lack of comment on the part of the engineer with regard to construction procedures is not to be interpreted as approval of those procedures.
- 5 This structure utilizes moment frames to provide lateral stability. Therefore, temporary bracing, guys, etc., must be maintained until all moment frames have been erected.
- 6 Jobsite safety and construction procedures are solely the responsibility of the contractor. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's provisions for job site safety. Lack of comment by the engineer is not to be interpreted as approval of those aspects of work.
- 7 PDF digital files of all erection and detail shop drawings for steel reinforcing bars (concrete construction), structural steel, indicating the fabricator, manufacturer, finish, layout, and all accessories, must be submitted to and be checked by the contractor and subcontractor and bear the checker's initials before submission to the architect for review prior to fabrication. Fabrication and/or delivery to the site of components prior to receiving approved shop drawings shall be at the fabricator's own risk.
- 8 Deferred submittals: Deferred submittals are those portions of the design that are not submitted at the time of application and are to be submitted to the building official within a specified period. The following deferred submittals shall be submitted to the engineer for approval.
- A. Precast pre-stressed concrete planks
- After approval by the engineer, the deferred submittal documents shall be submitted to the building official for approval. Deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
- 9 Testing and inspection of concrete, steel reinforcing bars (concrete construction), structural steel, and other work are described in the project "Statement of Special Inspections". The contractor shall review the "Statement of Special Inspections" and coordinate the scheduling of inspections with the special inspector. Uninspected work that required inspections may be rejected solely on that basis.
- 10 If faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services. Such fees may be withheld from the general contractor's payment.
- 11 Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bidding purposes only. However, these plans do not show the full scope of openings, in roofs, floors and walls. For size and location of all openings, see architectural and mechanical drawings. Do not scale openings. The contractor shall obtain from the heating and ventilating, electrical, plumbing and other trades the final approved size and location of all openings, equipment and work to be provided for their trade for roofs, floors and walls, whether shown or not shown on structural drawings. Excess cost related to variation in requirements or equipment are not to be borne by the owner.
- 12 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.
- 13 The contractor shall field verify existing conditions before proceeding with any work. The contractor shall field verify all dimensions noted "x" that are indicated on the drawings.
- 14 The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall familiarize themselves thoroughly with these plans before commencing any work.
- 15 These drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.
- 16 Work shown as "Typical Details" apply throughout the project as required. Work shown as "Sections" shall be considered to apply for the same and similar conditions in the building.
- 17 Some details of the work are shown on the architectural drawings. A careful review and study of these details are necessary before the full scope of the work can be comprehended.
- 18 Do not scale drawings.

Codes and Standards References

- 1 Concrete:
- Concrete work shall conform to all the requirements of ACI 301-10, "Specifications for Structural Concrete in Buildings" and ACI 318-14, "Building Code Requirements for Structural Concrete".
- 2 Structural steel:
- Design, fabrication and erection of structural steel shall conform to the AISC 360-16 "Specification for Structural Steel for Buildings" as adopted on July 7, 2016, by the American Institute of Steel Construction (AISC) and the 15th Edition of the AISC Steel Construction Manual.

Foundation notes

- 1 Recommendations for the site preparation and earthwork within the perimeter of the proposed new structure, preparation of soil bearing surfaces, material specification and placement of structural backfill for support of foundations and slabs-on-grade, and drainage are stated in the geotechnical engineering report prepared for this project by Whitestone Associates Engineering & Geology and dated June 16, 2023. The geotechnical report is a reference document, not a contract document, and the design team is not responsible or liable for the accuracy of the information contained in the report.
- 2 The foundations have been designed to rest on inorganic, undisturbed soil or compacted granular fill having a bearing value of 3000 psf as recommended in the geotechnical engineering report referenced above. Such bearing strata are anticipated at the bottom of footing elevations noted on the foundation plan. All bearing strata shall be reviewed by the geotechnical engineer prior to placing concrete in order to verify the bearing value.
- 3 If ledge rock is encountered above the proposed bottom of footing elevations indicated, then it shall be removed to the extent necessary to provide a minimum of 1'-0" soil cover above the top of the concrete footing.
- 4 Footings supported on ledge shall rest on broom clean solid rock. If the slope of the rock surface exceeds 1 on 6, then the footing shall be dovetailed to the ledge with 3/4" steel rods drilled 10 inches into the rock surface at 2 feet on center.
- 5 If ledge rock and soil both occur at the bottom of footing bearing elevation, then a minimum of one foot of ledge rock below planned bottom of footing elevation shall be removed and replaced with a "cushion" layer of crushed stone to minimize differential settlement. The crushed stone "cushion" layer shall extend beyond the end of the ledge rock for a minimum of 10 feet along the length of the supported footing.
- 6 The slab-on-grade sub-base shall be a crusher run stone free from soft disintegrated pieces, mud, dirt, or other injurious material. The material shall have no stone greater than 2 inches in any one dimension and with less than 10 percent by weight passing a No. 100 sieve.
- 7 The bottom of exterior footings not on solid rock shall be at least 3' - 6" below finished grade.
- 8 All soil surrounding and under footings shall be protected from freezing and frost action during the course of construction.
- 9 Step footings where elevations change at a maximum slope of one vertical on two horizontal and place lower footings first.
- 10 Keep foundation excavations free of water at all times.
- 11 Use crushed stone backfill or controlled compacted fill or lean concrete ($f'c=1500$ psi) for over-excavation of footings.
- 12 Existing utilities: locate existing underground utilities in areas of excavation work. Provide adequate means of support and protection during earthwork operations.
- 13 Where footings are in close proximity to sub-surface piping bottom of footings shall be at least 8" below elevation of piping unless otherwise shown on the drawings.
- 14 Submittals to the engineer are required for structural fill and slab sub-base.

Concrete Notes:

- 1 All concrete work shall conform to all the requirements of ACI 301, "Specifications for Structural Concrete in Buildings" and ACI 318 "Building Code Requirements for Structural Concrete", indicated in the code reference section of these general notes.
- 2 Concrete shall be the specified weight and develop a minimum compressive strength in 28 days as follows:
- | Location | Weight | Minimum Strength | Maximum W/C Ratio (or slump where indicated) |
|--------------------------|--------|------------------|--|
| Footings | Normal | 3,000 psi | 0.55 |
| Piers: | | | |
| Exterior exposed | Normal | 5,000 psi | 0.40 |
| Slabs-on-grade -exterior | Normal | 5,000 psi | 0.40 |
- 3 All detailing fabrication, and erection of reinforcing bars, unless otherwise noted, must follow the latest ACI code and the latest ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
- 4 Concrete design mix will be submitted to the engineer for review, together with laboratory reports attesting that the mixes can attain the minimum strength required in accordance with ACI 301 indicated above.
- 5 Portland cement shall be Type I or Type II and conform to ASTM C 150.
- 6 Other cementitious material such as flyash, ground granulated blast-furnace slag, or ground glass pozzolan may be blended with cement for use in the concrete mix. Flyash shall conform to ASTM C 618 and may replace cement in the following ranges for the 2 classes of flyash; Class C, 20 to 35%; Class F, 15 to 25%. Ground granulated blast-furnace slag shall conform to ASTM C 989 and may not exceed 50% of total weight of cementitious materials. Ground glass pozzolan shall conform to ASTM C 1866 and may replace cement in the range of 15% to 50% by weight.
- 7 For normal weight concrete: coarse aggregate shall be 3/4" and conform to ASTM C 33. Fine aggregate shall be manufactured or natural sand from the same source for the entire project and shall conform to ASTM C 33.
- 8 No admixtures are permitted without the engineer's written permission other than entrained air. Concrete exposed to the weather, such as that used in foundation walls, shall contain 5% +/- 1 1/2% entrained air. Concrete exposed to the weather and to de-icing compounds shall contain 6% +/- 1 1/2% entrained air. Do not use air entrainment admixture for interior normal weight concrete slabs.
- 9 Limit water-soluble, chloride-ion content in hardened concrete to the following percent by weight of cement: 1.00 for reinforced concrete that will be dry and protected from moisture, 0.30 for reinforced concrete that will be exposed to moisture but not exposed to chlorides, 0.15 for reinforced concrete exposed to moisture and chlorides from deicing chemicals and salt/seawater, and 0.06 for prestressed (post-tensioned) concrete.
- 10 Reinforcing steel shall conform to ASTM A 615, Grade 60.
- 11 Welded wire fabric shall conform to ASTM A 1064 with a minimum yield strength of 65 ksi. Lap one mesh size at sides and ends, and wire together.
- 12 The following concrete cover shall be provided for reinforcement:

Location	Cover (inches)
Concrete cast against and Permanently exposed to earth	3
Concrete exposed to earth or weather: #6 through #18 bars #5 bar and smaller	2 1 1/2
Concrete not exposed to weather or in contact with ground: Slabs, walls, joists: #14 and #18 bars #11 bar and smaller Beams, columns Primary reinforcement, ties, stirrups, spirals	1 1/2 3/4 1 1/2

- 13 The conveyance, placement and protection of the concrete shall conform to the requirements of ACI 318, indicated above, and ACI 304R, "Guide for Measuring, Mixing, Transporting and Placing Concrete". Mechanical vibrators are to be used to consolidate the freshly cast concrete around the reinforcing and against form surfaces and to prevent the formation of air or stone pockets, honeycombing, pitting or planes of weakness. However, care must be used to avoid over vibration that can lead to aggregate segregation.
- 14 No welding of reinforcing will be permitted.
- 15 All lap splices shall be Class B, in accordance with ACI 318 indicated above.
- 16 Concrete piers: Provide dowels with standard hook from footing at all piers. Size and quantity of dowels to match vertical pier reinforcing (Class "B" splice).
- 17 The contractor shall be responsible for limiting pours to minimize shrinkage cracking. In general, walls shall not be poured in continuous lengths exceeding 30 feet without providing construction joints or control joints. The location and configuration of joints exposed to view shall be coordinated with the architect.
- 18 The installation of slabs shall conform to the requirements of ACI 302.1R, "Guide to Concrete Floor and Slab Construction". Interior finish slab surfaces are to have a steel trowel finish. Exterior slab surfaces are to have a broom finish unless specified on the architectural drawings.
- 19 Expansion and isolation joints: Filler strips: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self expanding cork Sealant at top of joint: Sika's Sikaflex 2c SL poly urethane elastomeric sealant. Provide cap to separate sealant from filler.
- 20 The curing and protection of concrete shall conform to the requirements of ACI 318 and ACI 308R, "Guide to Curing Concrete". Concrete slabs shall be protected from loss of surface moisture for not less than 7 days using a curing compound conforming to ASTM C 309 or constantly wetted burlap. Curing compounds shall be compatible with any intended flooring overlay. Do not install finish flooring until slab has adequately dried per the flooring manufacturer's specifications.
- 21 Cold weather concrete placement: If cold weather concreting conditions exist as defined by a period of more than three days when the average outdoor temperature, (high + low)/2, is less than 40 deg.

- F. the procedures outlined in ACI 306.1, "Standard Specification for Cold Weather Concreting" and ACI 306R, "Guide to Cold Weather Concreting" shall be utilized.
- 22 Hot weather concrete placement: Maintain concrete temperature below 90 deg. F. at time of placement and comply with ACI 301 and ACI 305R, "Guide to Hot Weather Concreting".
- 23 Accurately position, support, and secure reinforcement and anchors against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars. Provide bar supports as follows.
- A. Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Do not "wet stick" reinforcement or anchors. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice," of greater compressive strength than concrete.
- 24 Sizes and locations of all required embedded items, such as anchor bolts, piping sleeves, etc., for all trades shall be coordinated by the general contractor with other trades.
- 25 Submittals to the engineer are required for concrete mix designs, cement, reinforcing bars, admixtures, and aggregates. as specified in Specification Section 03300.

Structural Steel Notes:

- 1 Design fabrication and erection of structural steel shall conform to the American Institute of Steel Construction's "Specification for Structural Steel for Buildings", indicated in the code reference section of these general notes.
- 2 Materials:
- American standard shapes, angles, ASTM A 36
- Plates and bars:
- Structural steel tubing, ASTM A 500, Grade C (Fy=50 ksi)
- Rectangular and square Structural steel pipe: ASTM A 53, Grade B (Fy=35 ksi)
- Bolts ASTM F3125, Grade A 325
- Anchor rods ASTM F 1554, Grade 36
- Welding electrode ASTM E 70xx, low hydrogen
- 3 All welding shall conform to American Welding Society's AWS D1.1 "Structural Welding Code-Steel" code for arc and gas welding and be performed by a certified welder in accordance with A.W.S. standards.
- 4 High strength bolts: install high-strength bolts according to Research Council on Structural Connections' (RCSC's) "Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified.
- Joint type: Snug tightened unless otherwise noted
- 5 The fabricator is responsible for designing connections for the reactions shown on these plans and submitting these design calculations, signed and sealed by a qualified professional engineer registered in the state of jurisdiction who is responsible for their preparation, for review by the structural engineer of record through the architect. The reactions shown are "service" loads for "Allowable Stress Design" (ASD). Connections may be designed for these values using the conventional "Allowable Stress Design" method, as specified in the AISC Steel Construction Manual indicated in the code reference section of these general notes.
- 6 For moment connections, notch-tough welding electrodes, complying with AWS requirements, shall be used for full penetration welds. Also for full penetration welds, provide welding tabs at beam flange edges to allow welding of full beam width.
- 7 For moment connections, backing bars and weld tabs for welds need not be removed, unless testing agency requires removal to facilitate testing and inspection or weld tabs interfere with architectural finishes.
- 8 Full or partial penetration groove welds shall be ultrasonic tested, as indicated in the Statement of Special Inspections, and shall be detailed to allow for such ultrasonic testing.
- 9 Where slotted hole connections are shown, nuts shall be fastened snug tight, then untightened by one-half turn. Peen threads to prevent further loosening of the nut.
- 10 Grout shall be nonmetallic, shrinkage-resistant grout conforming to ASTM C 1107, Grade B or C, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
- 11 All steel members and bolting exposed to weather shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 6 for Commercial Blast Cleaned and hot-dipped galvanized in accordance with ASTM A 123 and ASTM A 153. Minimum acceptable zinc coating weight shall be 2 oz./sq. Ft. See architectural specifications for finished paint if required. Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.
- 12 Provide bitumastic protection coating for all structural steel below grade.
- 13 Continuous members, where indicated on the drawings, shall require either 1) the member to be furnished as one piece, or 2) if individual pieces are to be provided, then they shall be connected by either welding or bolting to develop the full strength of the continuous member.
- 14 Split cantilevers for steel beams shall be designed for the full moment capacity of the beam unless otherwise noted.
- 15 Unless otherwise noted, at cantilever beam connection to top of columns, provide welded 3/4" cap plate with (4)-3/4" diameter A 325 bolts on beam gage. Provide 1/2" minimum fitted stiffeners welded at both sides of beam web. Locate stiffeners over column flange on cantilever side.
- 16 Bent beams are defined as beams having its full section properties throughout its length, including at the bent. Provide full penetration welds all around at the bent.
- 17 Provide 1/4" closure plates with seal weld at ends of all HSS members.
- 18 For miscellaneous steel, see architectural drawings.
- 19 Submittals to the engineer are required for certificates of compliance for structural steel, bolts, nuts, washers, and weld filler material prior to the fabrication of any steel
- 20 At the completion of fabrication, the fabricator shall submit a certificate of compliance stating that the work was performed in accordance with the approved contract documents, as required by Section 1704.2 of the building code indicated at the beginning of these General Notes.

Steel Deck Notes:

- 1 Steel deck shall be designed, fabricated, and erected in accordance with the Steel Deck Institute specification indicated in the code reference section of these general notes.
- 2 Formed steel roof deck to be 3" deep, 20 gage (uncoated steel thickness = 0.0358"), galvanized (G60 coating) (G90 coating), deep rib, United Steel Deck "N" Deck profile, as manufactured by Canam Steel Deck, Incorporated or an approved equal.
- 3 Formed steel roof deck shall be welded to supporting steel with 5/8" diameter puddle welds at all edge ribs plus a sufficient number of interior ribs to limit the spacing between adjacent points of attachment to 8" on center. Intermediate side connections shall be made with No.10 self-tapping screws at mid-span or 3'-0" on center, whichever is smaller. Deck perimeter edge connections between supports (parallel to supports) shall be made with No.12 self-tapping screws at mid-span or 3'-0" on center, whichever is smaller. Install deck ends over supporting frame with a minimum end bearing of 1-1/2 inches. End laps of sheets shall be a minimum of 2" and shall occur over supports. Steel deck must be protected before and after erection and all debris cleaned from its surface where concrete will be poured or roofing is to be placed.

DISTRICT-WIDE
CAPITAL IMPROVEMENTS
NEW CONSTRUCTION
& ATHLETIC
UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514



CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
AP: 66-10-04-06-7-052-001
CS: 66-10-04-06-7-027-002
OB: 66-10-04-06-0-026-002
SB: 66-10-04-06-0-036-007



Key Plan

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3	10/27/2023	SED ISSUE
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No. _____ Date _____ Issue _____

Sheet Title

GENERAL NOTES AND
MATERIAL
SPECIFICATIONS

Job No. 23039	Sheet Number
Date 09/16/2023	
Scale AS NOTED	S001-HG
Drawn / Checked JMS/GL	

DISTRICT-WIDE
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NEW CONSTRUCTION
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UPGRADES

CHAPPAQUA CENTRAL
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66 Roaring Brook Road
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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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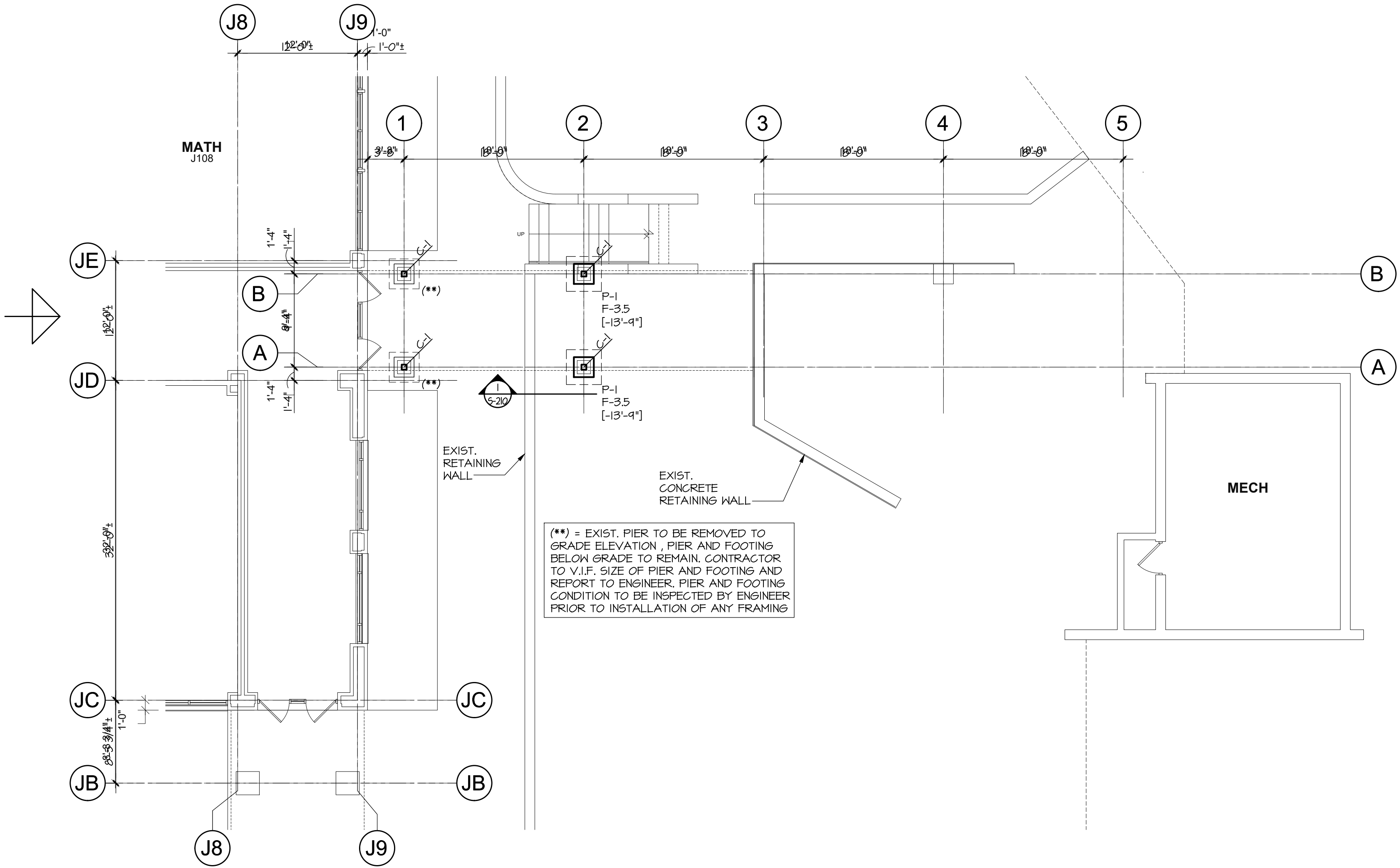
The
Di Salvo
Engineering
Group

Structural Engineers

93 Lake Avenue, Suite 201
Danbury, CT 06810
[203] 490-4140 | www.tdeg.com

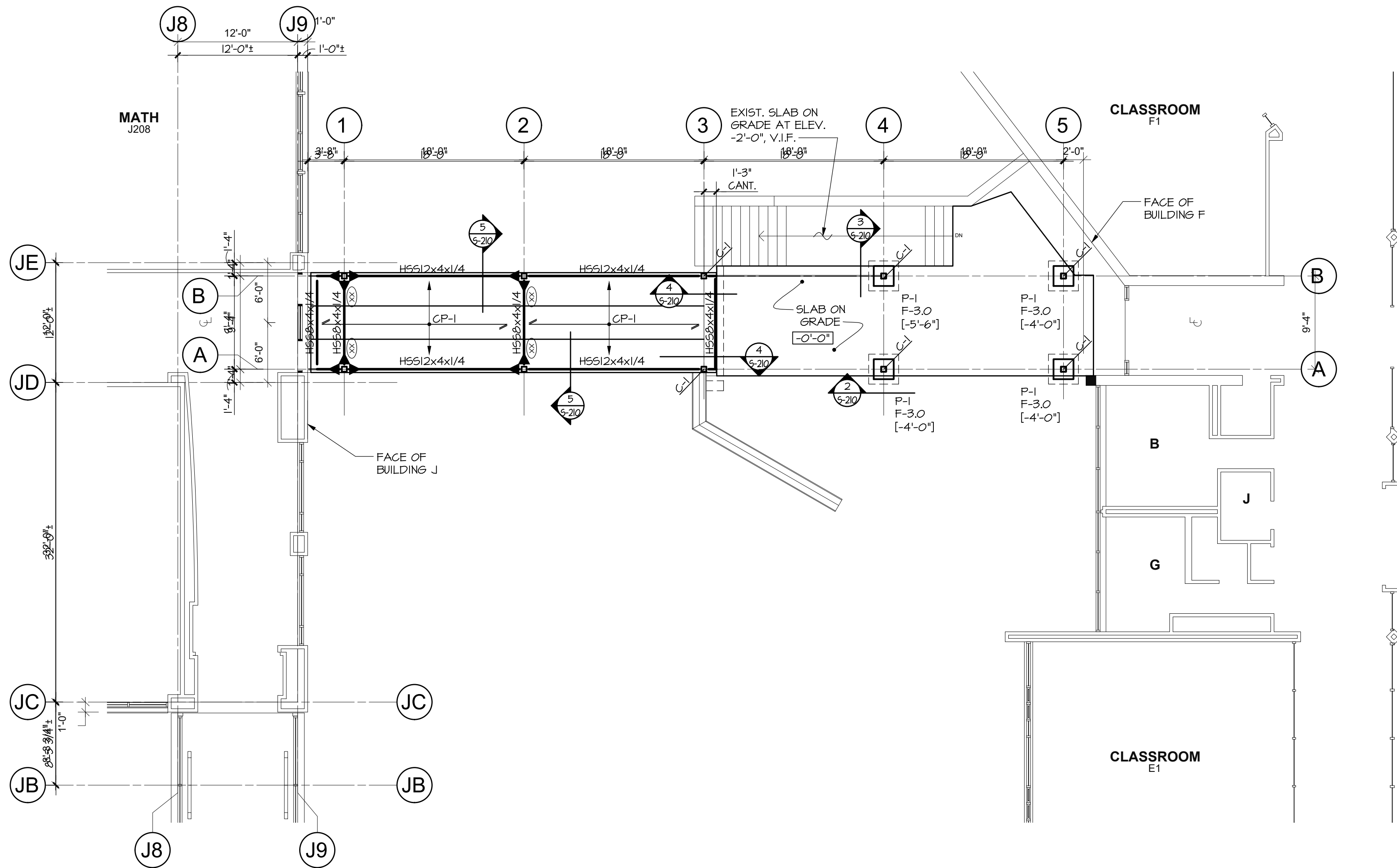
FOUNDATION PLAN
1/8" = 1'-0"

- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK): +9'-0" UNLESS OTHERWISE NOTED THUS [1/2-X'-XX"] FROM ELEVATION -0'-0".
 - SEE GENERAL NOTES ON DRAWING SO.1 FOR ADDITIONAL INFORMATION.
 - "C-1" INDICATES AN H566x6x3/8 COLUMN.
- LEGEND
- [1/2- ...] INDICATES BOTTOM OF FOOTING ELEVATION FROM TOP OF FIRST FLOOR CONCRETE SLAB DATUM ELEVATION.



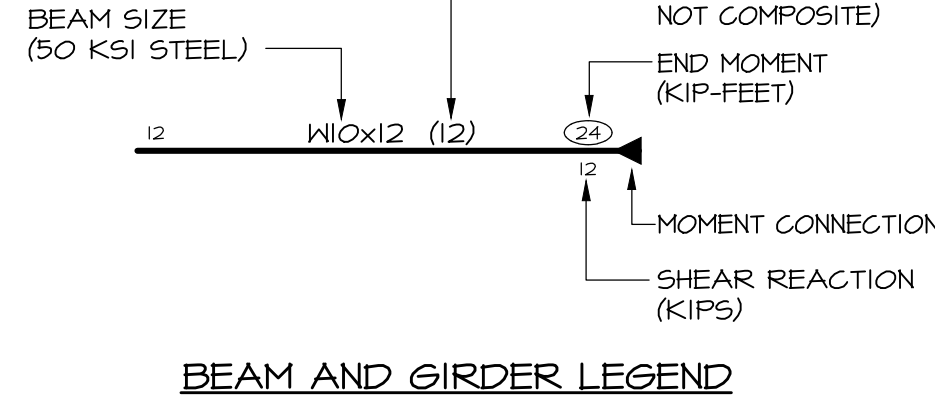
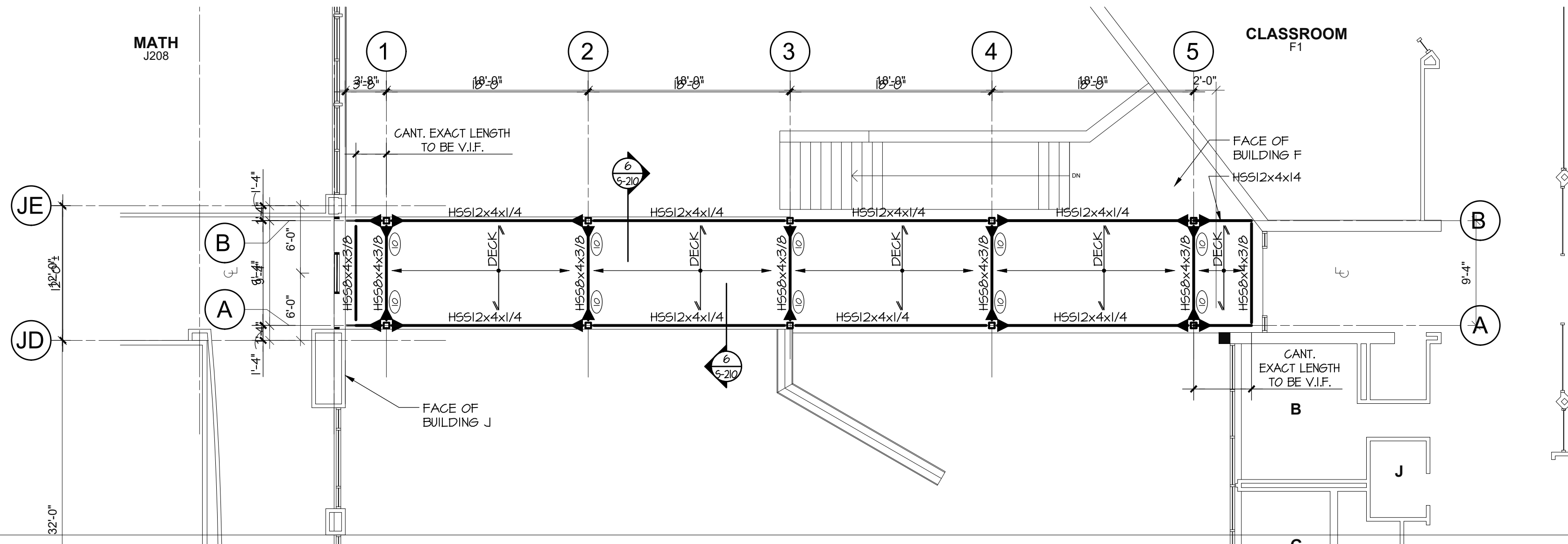
MAIN LEVEL FRAMING PLAN
1/8" = 1'-0"

- TOP OF FIRST FLOOR SLAB ELEVATION = DATUM ELEVATION 0'-0" (TOPOGRAPHIC ELEVATION +2'-0").
- TOP OF STEEL ELEVATION (UNDERSIDE OF PRECAST PLANK): -0'-10" UNLESS OTHERWISE NOTED THUS [1/2-X'-XX"] FROM ELEVATION -0'-0".
- CP-1 INDICATES AN 8" DEEP PRECAST CONCRETE DECK PANEL W/ A 2" TOPPING SLAB. PANEL SHALL BE DESIGNED BY THE MANUFACTURER.
- "C-1" INDICATES AN H566x6x3/8 COLUMN.
- SEE GENERAL NOTES ON DRAWING SO.1 FOR ADDITIONAL INFORMATION.

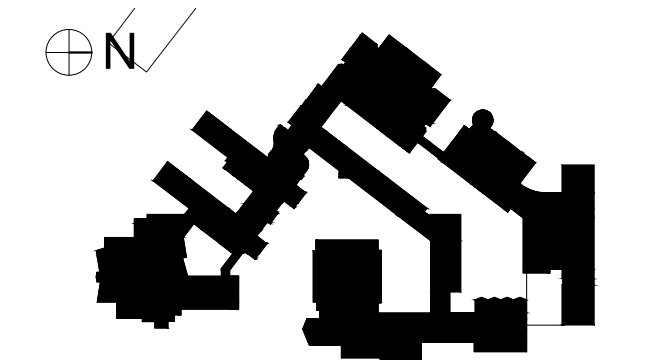


ROOF FRAMING PLAN
1/8" = 1'-0"

- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK): +9'-0" REFERENCED FROM FIRST FLOOR SLAB DATUM ELEVATION 0'-0".
- ROOF DECK CONSTRUCTION: 3" METAL ROOF DECK, SEE GENERAL NOTES ON SO.1 FOR ADDITIONAL INFORMATION.
- SEE GENERAL NOTES ON DRAWING SO.1 FOR ADDITIONAL INFORMATION.



Key Plan
Horace Greeley High School



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No.	Date	Issue

Sheet Title

HORACE GREELEY
F-J BRIDGE PARTIAL
FOUNDATION, FLOOR
AND ROOF PLAN

Job No. 23039	Sheet Number S101-HG
Date 09/16/2023	
Scale AS NOTED	
Drawn / Checked JM/SL	

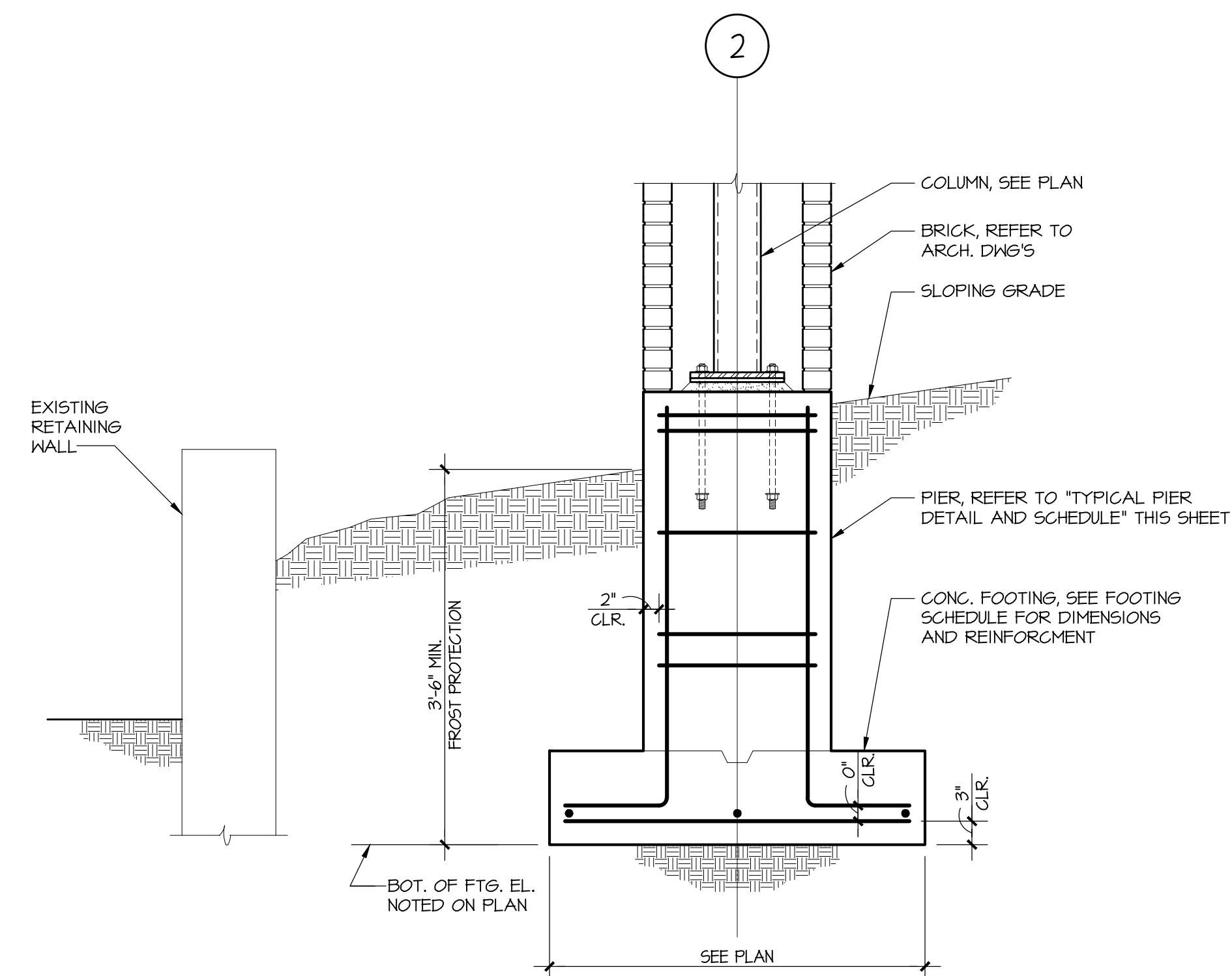
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imagine
build

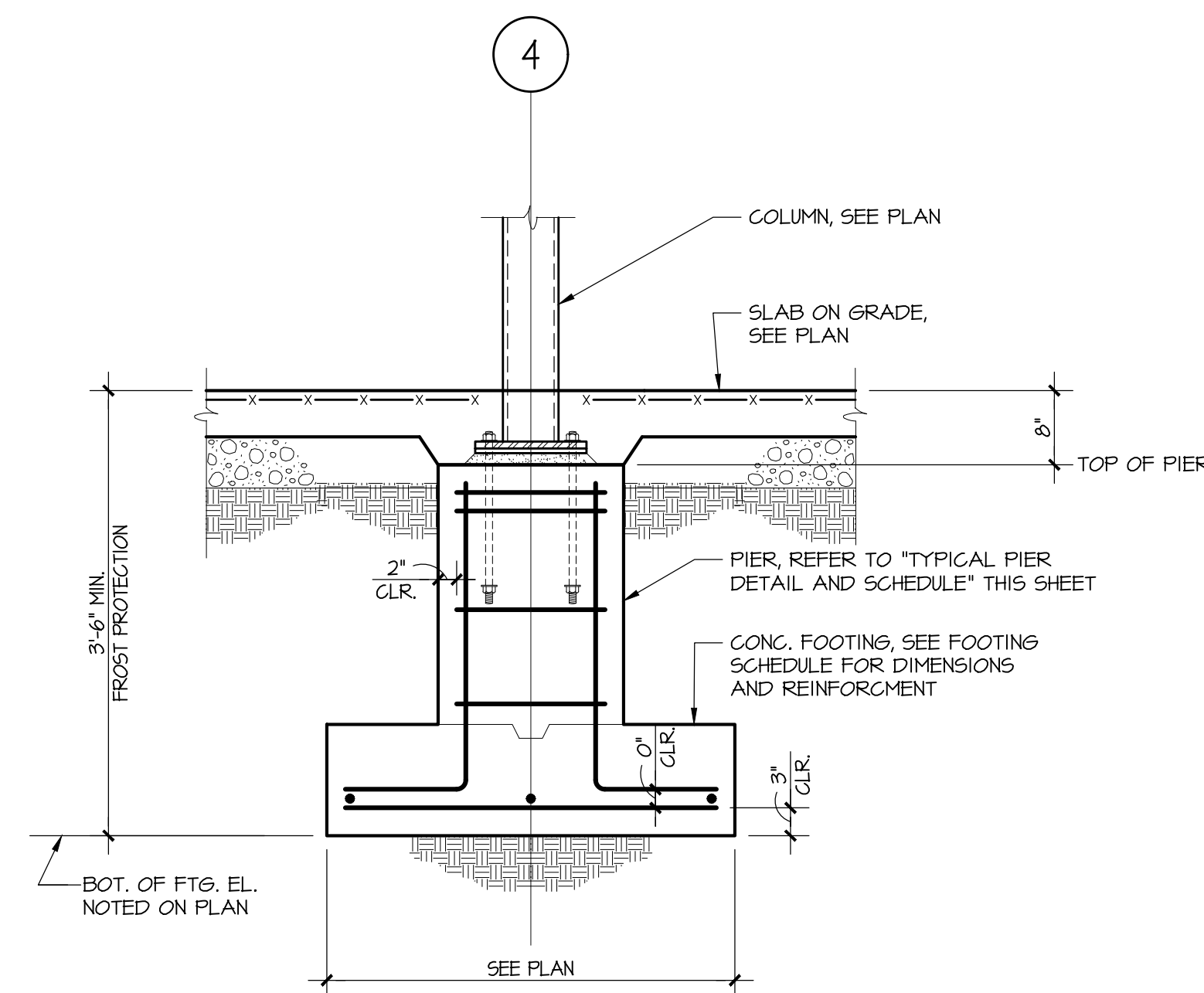
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CONSTRUCTION DOCUMENTS

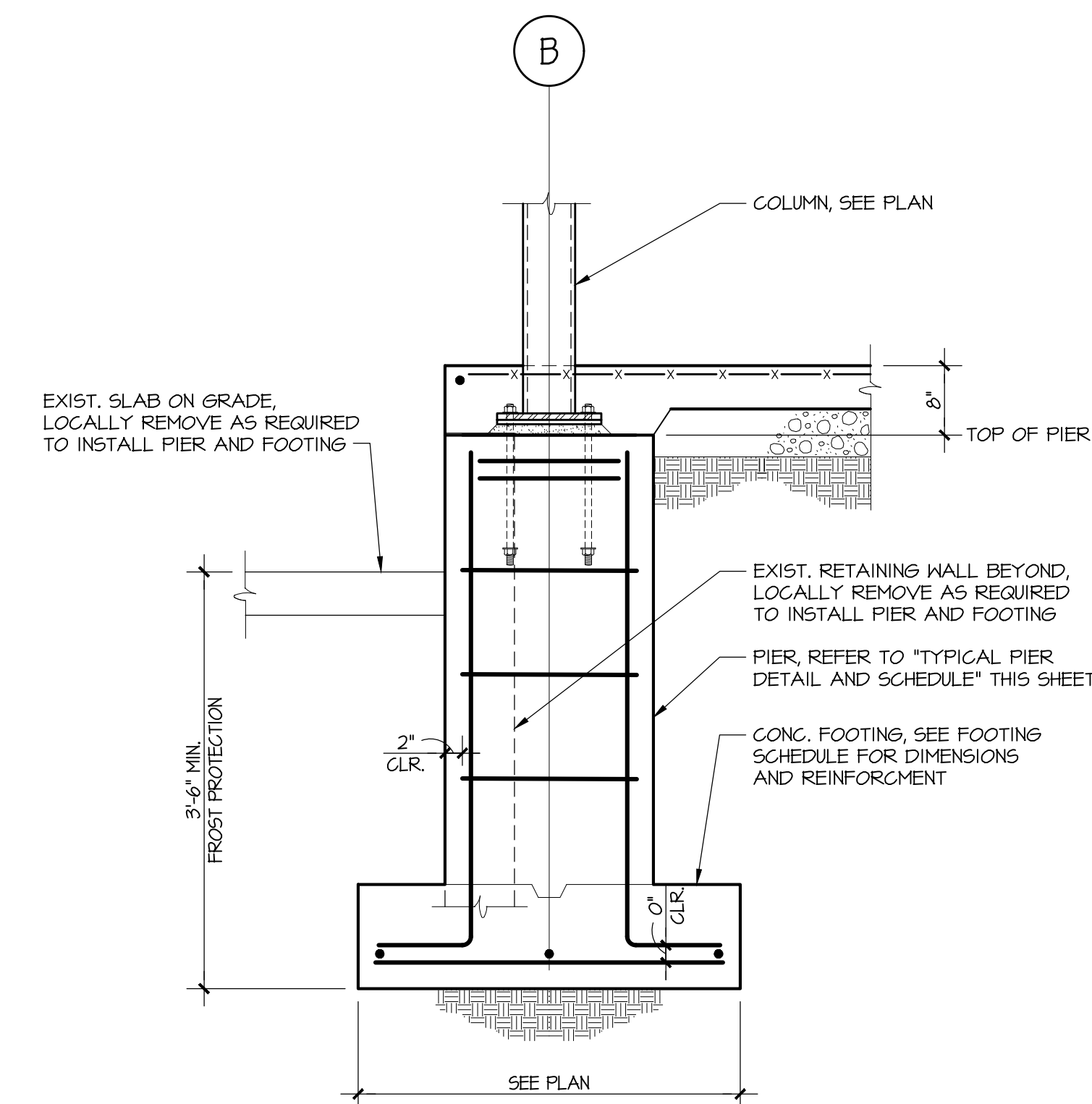
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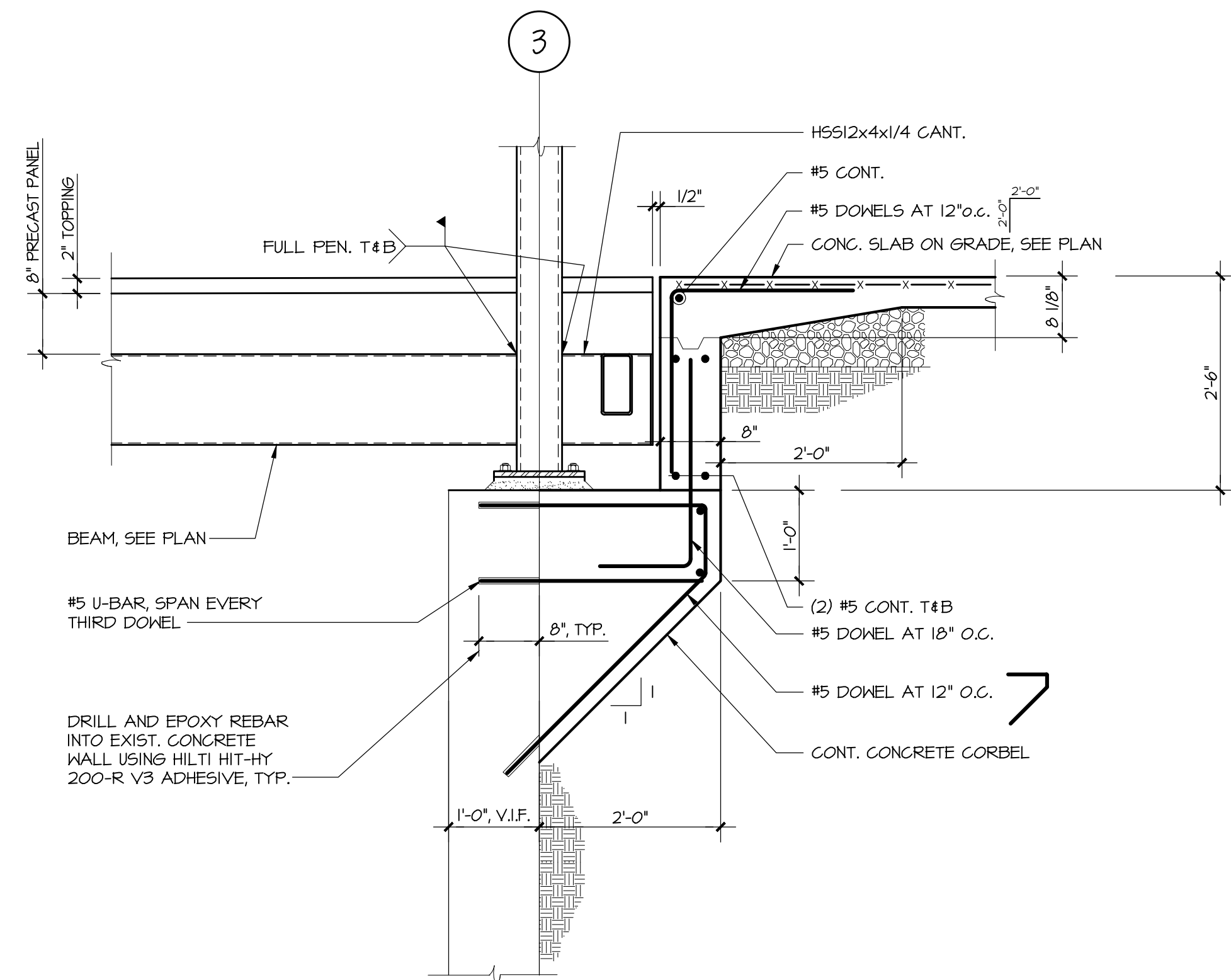
SECTION
3/4" = 1'-0"



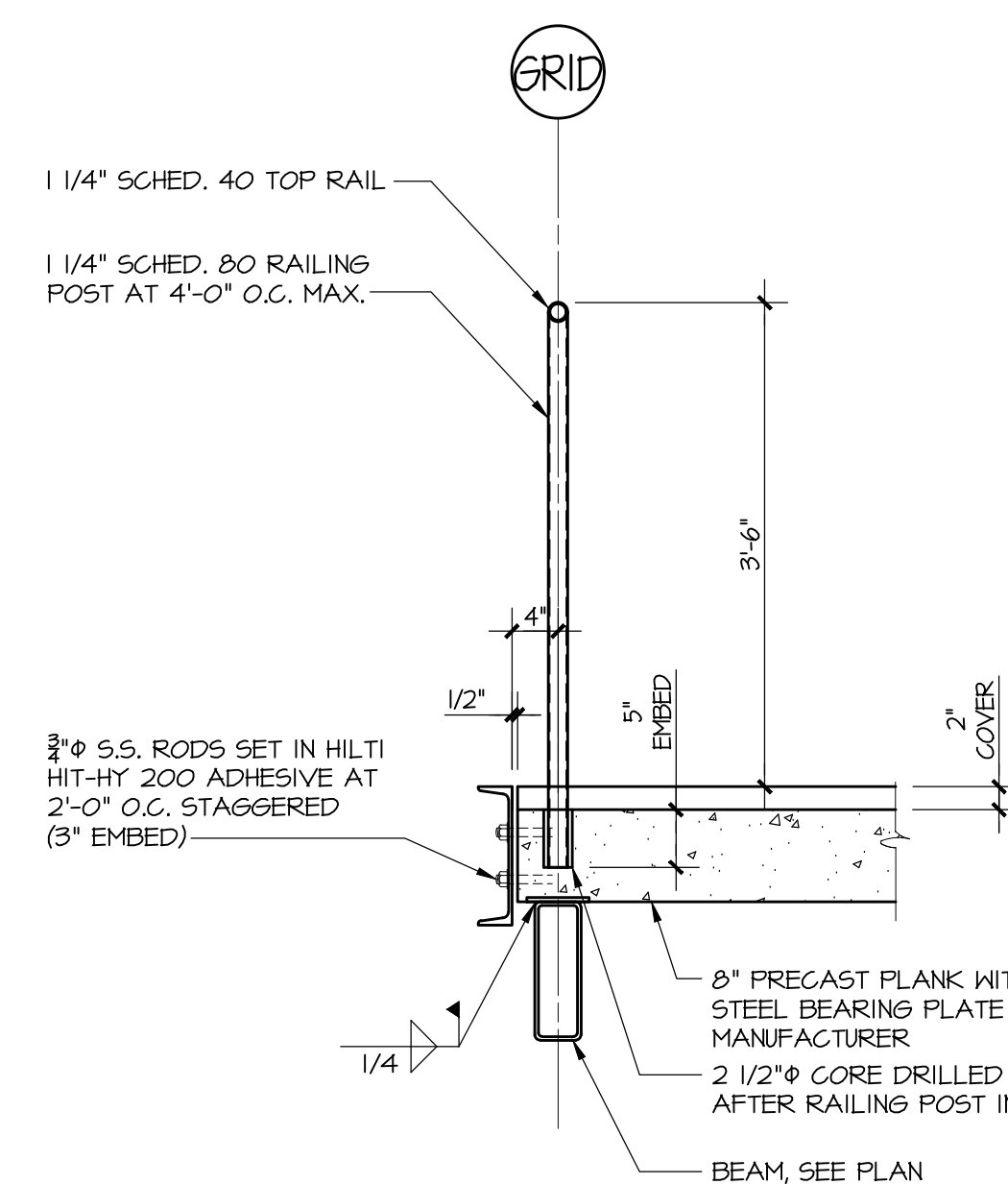
SECTION
3/4" = 1'-0"



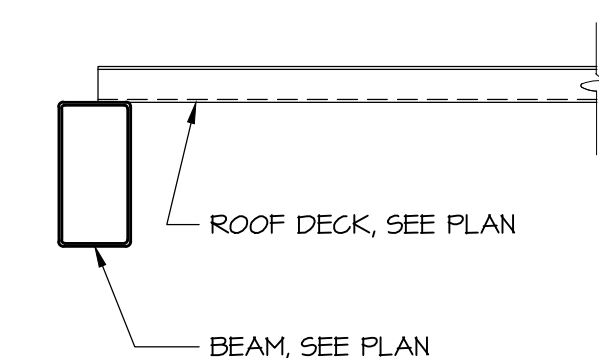
SECTION
3/4" = 1'-0"



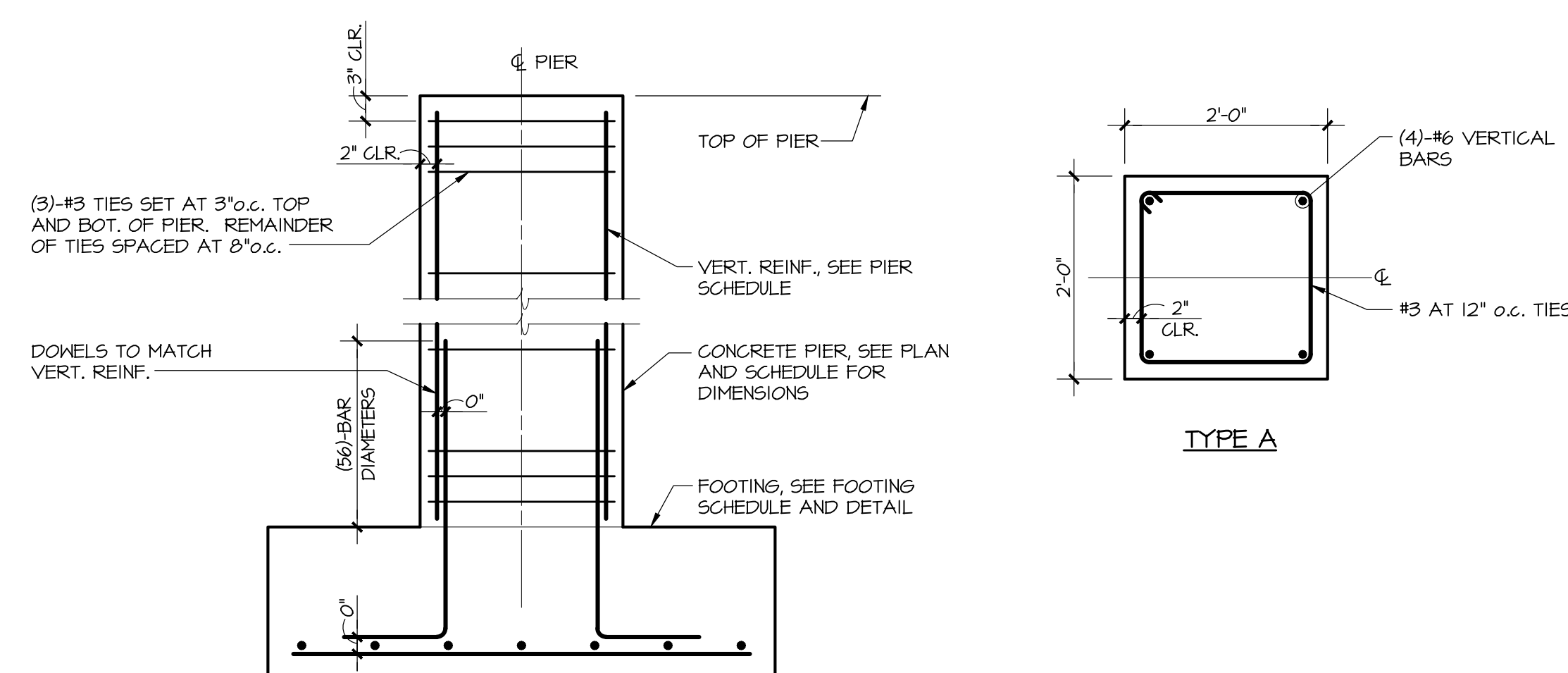
SECTION
3/4" = 1'-0"



SECTION
3/4" = 1'-0"



SECTION
3/4" = 1'-0"



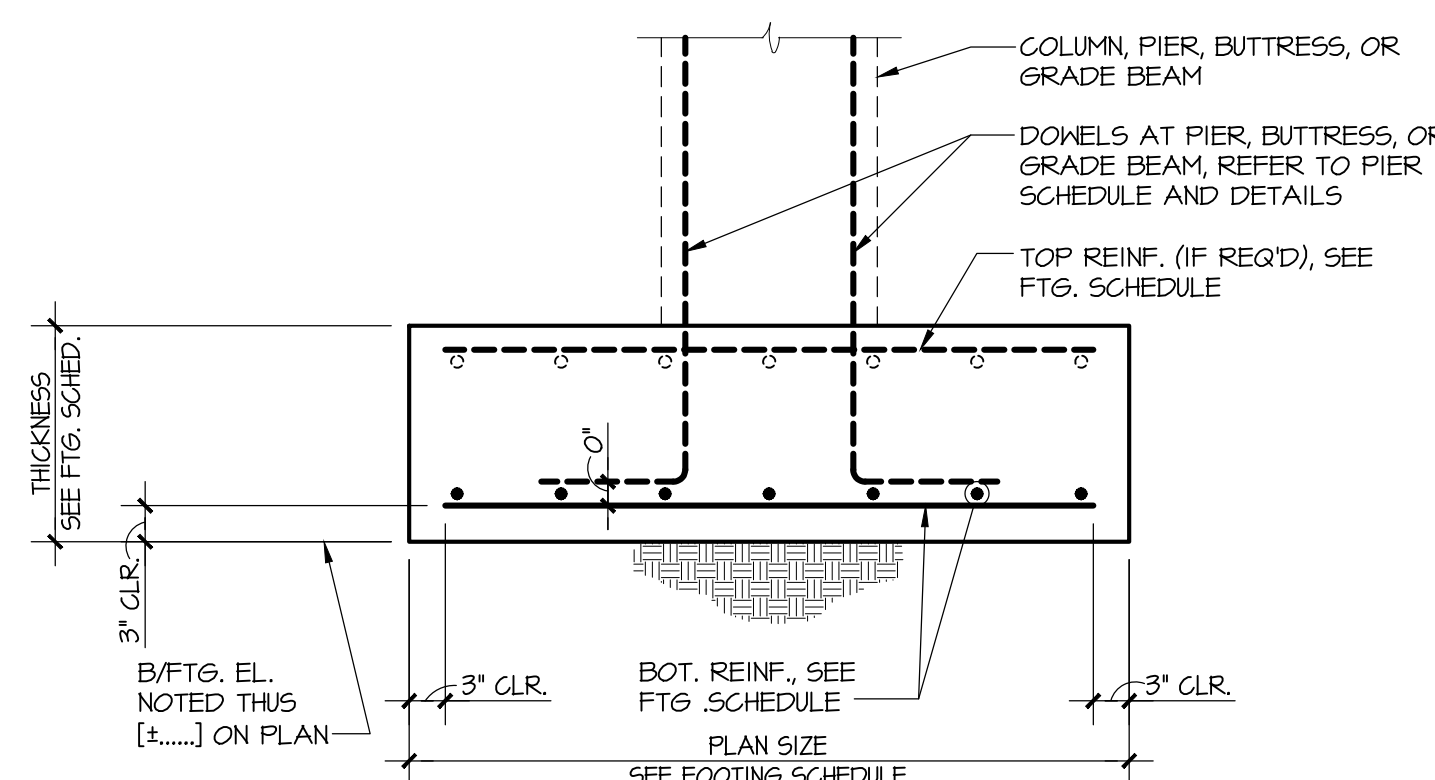
SECTION

PIER SCHEDULE					
MARK	TYPE	"X"	"Y"	VERTICAL REINF.	REMARKS
P-1	A	24"	2'-0"	(4)-#6	

NOTES:

1. VERTICAL BARS SHALL BE SPACED AROUND THE PERIMETER SO AS TO ACHIEVE APPROXIMATELY EQUAL SPACING.
2. MINIMUM VERTICAL BAR SPACING SHALL BE 1.5 X THE BAR DIAMETER, BUT NOT LESS THAN 1".
3. TIES SHALL BE ARRANGED SUCH THAT EVERY CORNER AND ALTERNATE VERTICAL BAR SHALL HAVE LATERAL SUPPORT PROVIDED BY THE CORNER OF A TIE WITH AN INCLUDED ANGLE OF MORE THAN 45 DEGREES AND NO BAR SHALL BE FURTHER THAN 6" CLEAR ON EACH SIDE ALONG THE TIE FROM SUCH A LATERALLY SUPPORTED BAR.

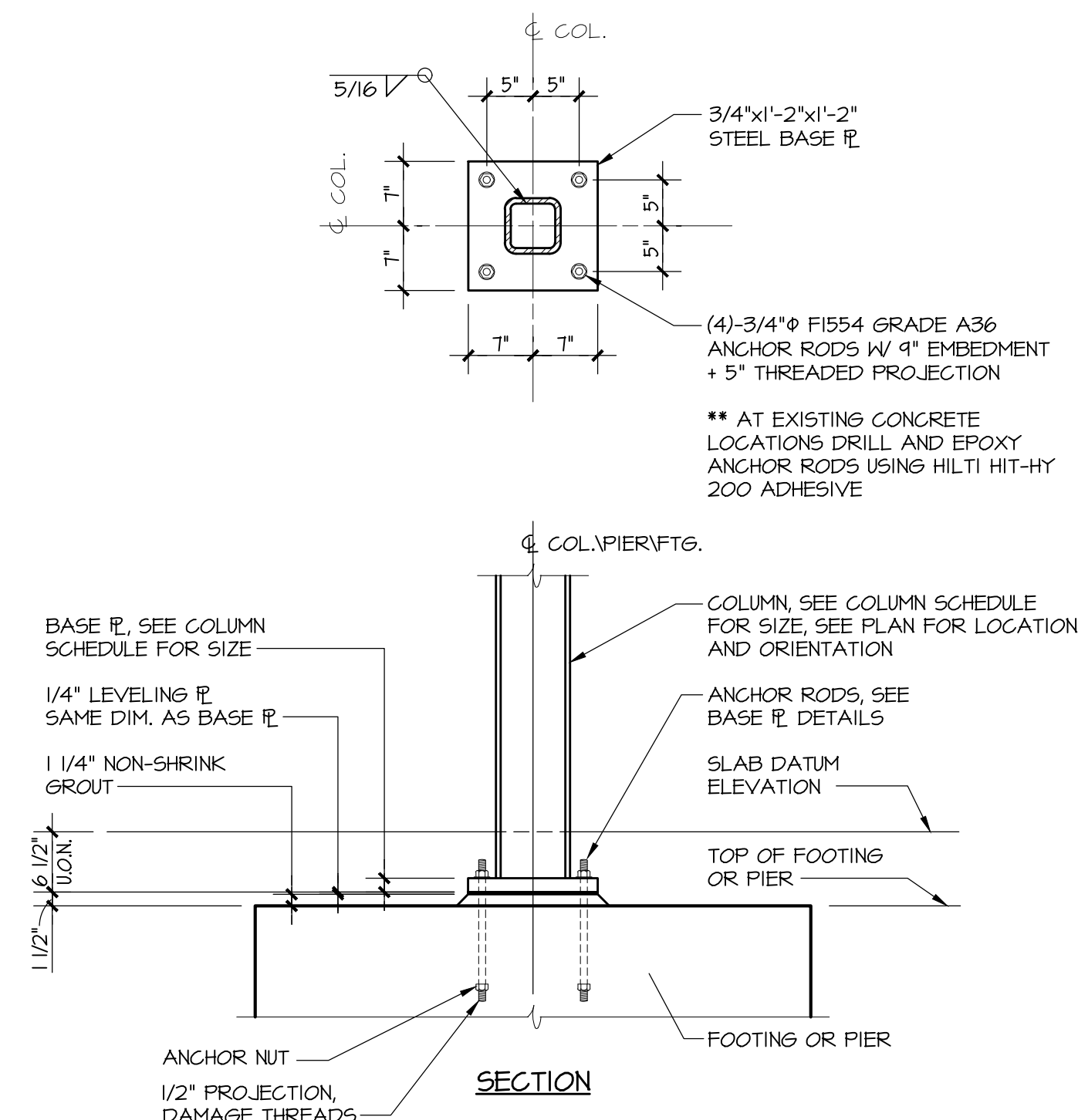
TYPICAL PIER DETAIL AND SCHEDULE
NO SCALE



FOOTING SCHEDULE

MARK	PLAN SIZE		THICKNESS	BOTTOM REINF.		REMARKS
	N-S	E-W		N-S	E-W	
F-3.0	3'-0"	3'-0"	1'-4"	(4)-#5	(4)-#5	
F-3.5	3'-6"	3'-6"	1'-4"	(5)-#5	(5)-#5	

FOOTING SCHEDULE
NO SCALE



STEEL COLUMN BASE PLATE DETAILS

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No.	Date	Issue

SECTIONS

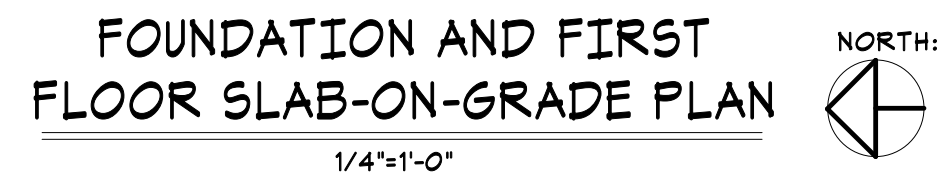
Job No. 23039	Sheet Number
Date 09/16/2023	S210-HG
Scale AS NOTED	
Drawn / Checked JM/SGJ	

General Notes:																																							
1	The purpose of these drawings is to show the structural work associated with athletic pavilion building at the Horrace Greeley High School, 70 Roaring Brook Road, Chappaqua, NY.																																						
2	The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State.																																						
3	The structural components have been designed for the following loads: Storage warehouse Light 125 psf A. Roof loads: Snow: Ground snow load, p _g 30 psf Flat roof snow load, p _f 30 psf Exposure factor, C _e 1.0 Importance factor, I _s 1.0 Thermal factor, C _t 1.0 Drift surcharge load, p _d N/A Width of snow drift, W 6.0 ft Rain loads: in accordance with Section 1611 Rainfall intensity (100-year 15-minute recurrence), i 6.00 in/hr Roof live load: 20 psf *Note: the flat roof snow load shall be no less than 30 psf																																						
	B. Wind design data: Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-16, Chapters 26, 27, 29 and 30, Directional Procedure Basic Design Wind Speed (3-second gust): V 114 mph Adjustable Stress Design Wind Speed, V _{adj} 89 mph Risk category: Wind Exposure C Internal pressure coefficient 0.18 "a" dimension for use with components and cladding 3.5 ft																																						
	Design wind pressure (Nominal design wind pressures) for components and cladding on building walls (use Zone 4 generally; use Zone 5 within "a" of building wall corners): Area 10 sq ft Surface pressure (psf) 20 sq ft 50 sq ft 100 sq ft Negative Zone 4 -18.7 -18.0 -16.9 -16.2 Negative Zone 5 -23.1 -21.6 -19.5 -18.0 Positive Zones 4 & 5 17.3 16.5 15.5 14.7 Design wind pressure (Nominal design wind pressures) for components and cladding on building roofs (for locations of zones 1, 2 and 3, refer to building code): Area 10 sq ft Surface pressure (psf) 20 sq ft 50 sq ft 100 sq ft Negative Zone 1 -24.6 -24.5 -21.1 -18.5 Negative Zone 2 -35.3 -34.4 -27.9 -23.1 Negative Zone 3 -45.8 -45.0 -38.0 -34.0 Positive all zones 10.0 10.0 10.0 10.0																																						
	C. Earthquake design data: Risk category II Seismic importance factor, I _s 1.0 Mapped short period spectral response accelerations, S _s 0.25g Mapped 1 second period spectral response accelerations, S ₁ 0.061g Site class: D Design short period spectral response accelerations, S _s 0.20g Design 1 second period spectral response accelerations, S ₁ 0.097g Seismic design category: B Seismic force resisting system: intermediate reinforced masonry shear walls Structural steel systems not specifically detailed for seismic resistance Seismic response coefficient, C _s 0.10 Design base shear factor, R: 3.0 Deflection amplification factor, C _d 3.0 Analysis procedure: Equivalent Lateral Force																																						
	D. Other loads: Concentrated loads: Garages with passenger vehicles (n 4.5 inches square) 3,000 lbs All other primary roof members 300 lbs E. Special loads: Retaining walls: Lateral equivalent fluid pressure 35 pc Seismic load (n = height of wall) 5.5 h/2 F. Guards (load applied in any direction): Top rail concentrated or 200 lbs Top rail uniform load 50 pf Intermediate rail concentrated load 50 lbs																																						
4	This structure has been designed to be self-supporting and stable after the construction of the building has been completed. The stability of the structure prior to completion is solely the responsibility of the contractor. This responsibility extends to all related aspects of the construction activity including, but not limited to, erection methods, erection sequence, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's construction procedures. Lack of comment on the part of the engineer with regard to construction procedures is not to be interpreted as approval of those procedures.																																						
5	This structure utilizes moment frames to provide lateral stability. Therefore, temporary bracing, guys, etc., must be maintained until all moment frames have been erected.																																						
6	Jobsite safety and construction procedures are solely the responsibility of the contractor. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's provisions for job site safety. Lack of comment by the engineer is not to be interpreted as approval of those aspects of work.																																						
7	PDF digital files of all erection and detail shop drawings for steel reinforcing bars (concrete and concrete-masonry construction), structural steel, indicating the fabricator, manufacturer, finish, layout, and all accessories, must be submitted to and be checked by the contractor and subcontractor and bear the checker's initials before submission to the architect for review prior to fabrication.																																						
8	Fabrication and/or delivery to the site of components prior to receiving approved shop drawings shall be at the fabricator's own risk. Testing and inspection of concrete, steel reinforcing bars (concrete and concrete-masonry construction), concrete masonry, structural steel, wood framing, wood sheathing, and other work are described in the project "Statement of Special Inspections". The contractor shall review the "Statement of Special Inspections" and coordinate the scheduling of inspections with the special inspector. Uninspected work that required inspections may be rejected solely on that basis.																																						
9	If any faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services. Such fees may be withheld from the general contractor's payment.																																						
10	Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bidding purposes only. However, these plans do not show the full scope of openings, in roofs, floors and walls. For size and location of all openings, see architectural and mechanical drawings. Do not scale openings. The contractor shall obtain from the heating and ventilating, electrical, plumbing and other trades the final approved size and location of all openings, equipment and work to be provided for their trade for roofs, floors and walls, whether shown or not shown on structural drawings. Excess cost related to variation in requirements or equipment are not to be borne by the owner.																																						
11	For any mechanical equipment weights used in design of supporting elements that are indicated on the drawings. Contractor shall notify the architect prior to installation of equipment if actual weight exceeds weight shown on drawings.																																						
12	The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.																																						
13	The contractor shall field verify existing conditions before proceeding with any work. The contractor shall field verify all dimensions noted "a" that are indicated on the drawings.																																						
14	The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall familiarize themselves thoroughly with these plans before commencing any work.																																						
15	Drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.																																						
16	Work shown as "Typical Details" apply throughout the project as required. Work shown as "Sections" shall be considered to apply for the same and similar conditions in the building.																																						
17	Some details of the work are shown on the architectural drawings. A careful review and study of these details are necessary before the full scope of the work can be comprehended.																																						
18	Do not scale drawings.																																						
Codes and Standards References																																							
1	Concrete: Concrete work shall conform to all the requirements of ACI 301-10, "Specifications for Structural Concrete in Buildings" and ACI 318-14, "Building Code Requirements for Structural Concrete".																																						
2	Concrete masonry: Concrete masonry work shall conform to the requirements of "Building Code Requirements for Masonry Structures, TMS 402-13" and "Specifications for Masonry Structures, TMS 602-13".																																						
3	Structural steel: Design, fabrication and erection of structural steel shall conform to the AISC 360-16 "Specification for Structural Steel Buildings" as adopted on July 7, 2016, by the American Institute of Steel Construction (AISC) and the 15th Edition of the AISC Steel Construction Manual.																																						
4	Wood: Wood construction shall conform to the AWC NDS-2018, "National Design Specification (NDS) for Wood Construction" with the 2018 NDS Supplement. Wood Trusses shall conform to TPI 1-2014, "National Design Standard for Metal-plate-connected Wood Truss Construction".																																						
Foundation Notes																																							

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514



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- TOP OF FIRST FLOOR CONCRETE SLAB ON GRADE ELEVATION = DATUM ELEVATION 0'-0".
- FLOOR CONSTRUCTION: 5" CONCRETE SLAB ON GRADE, REINFORCED WITH #6 - 11x14x14 WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE "TYPICAL SLAB ON GRADE DETAILS".
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE TYPICAL DETAIL AT EXTERIOR DOORS.
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVE SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- FOR FOUNDATIONS FOR MASONRY WALLS THAT ARE NOT SHEAR WALLS THAT ARE NONLOAD-BEARING, SEE TYPICAL ONE STORY PARTITION WALL SUPPORT DETAIL. FOR SIZE, LENGTH AND LOCATION OF THESE WALLS, SEE ARCHITECTURAL DRAWINGS.
- SEE GENERAL NOTES, FOR ADDITIONAL INFORMATION.

- (+/- ...) INDICATES BOTTOM OF FOOTING ELEVATION FROM TOP OF FIRST FLOOR CONCRETE SLAB DATUM ELEVATION.
- (+/-...) INDICATES TOP OF WALL ELEVATION FROM TOP OF FIRST FLOOR CONCRETE SLAB DATUM ELEVATION.
- +/-... INDICATES TOP OF CONCRETE SLAB ELEVATION FROM TOP OF FIRST FLOOR CONCRETE SLAB DATUM ELEVATION. MAINTAIN FULL SLAB THICKNESS AT SLOPED AND DEPRESSED AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT.

- * '3F' INDICATES APPROXIMATE LOCATION OF STEPS IN FOOTING ON PLAN. COORDINATE LOCATION AND ELEVATION WITH SITE GRADING AND MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DETAILS. SEE 'TYPICAL STEPPED FOOTING DETAIL'.
- * 'GJ' INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE 'TYPICAL SLAB ON GRADE DETAILS'.
- * F-## INDICATES FOOTING TYPE. SEE 'FOOTING SCHEDULE AND FOOTING DETAIL'.
- * BP-# INDICATES COLUMN BASEPLATE. REFERS TO S202-AP FOR DETAILS.
- * 'G-1' INDICATES AN HSS6X6X5/8 COLUMN.
- * 'G-2' INDICATES A 6'X6" P.T. POST N/A IN A SIMPSON GPT88Z POST BASE

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No.	Date	Issue

FIRST FLOOR
SLAB-ON-GRADE
AND FOUNDATION
PLAN

[illegible]

DISTRICT-WIDE
CAPITAL IMPROVEMENTS
NEW CONSTRUCTION
& ATHLETIC
UPGRADES

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Chappaqua, NY 10514

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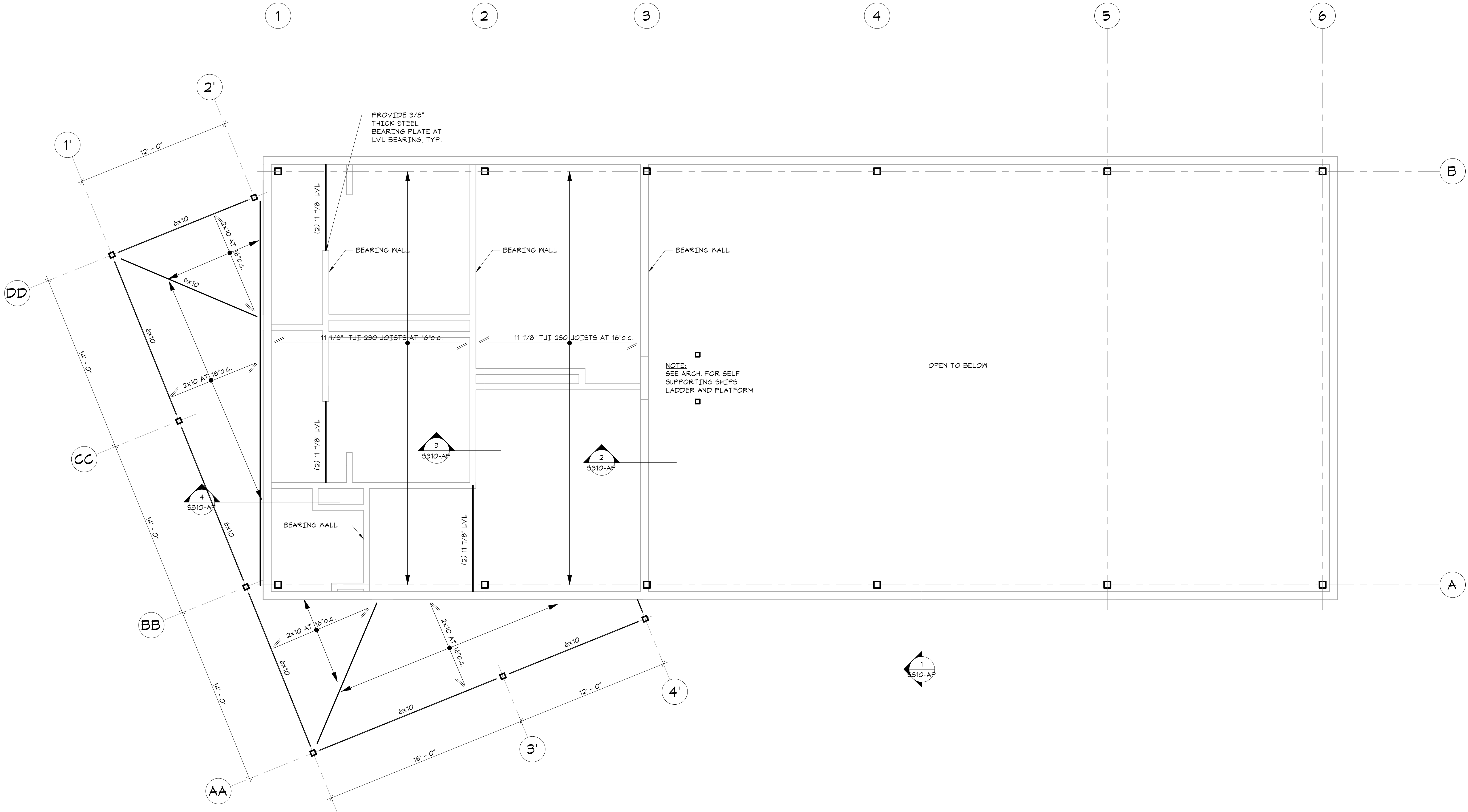
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MEZZANINE & LOW
ROOF FRAMING
PLAN

Job No.	2023-1028	Sheet Number
Date	09/05/23	
Scale	AS NOTED	S102-AP
Drawn / Checked		
Author Checker		



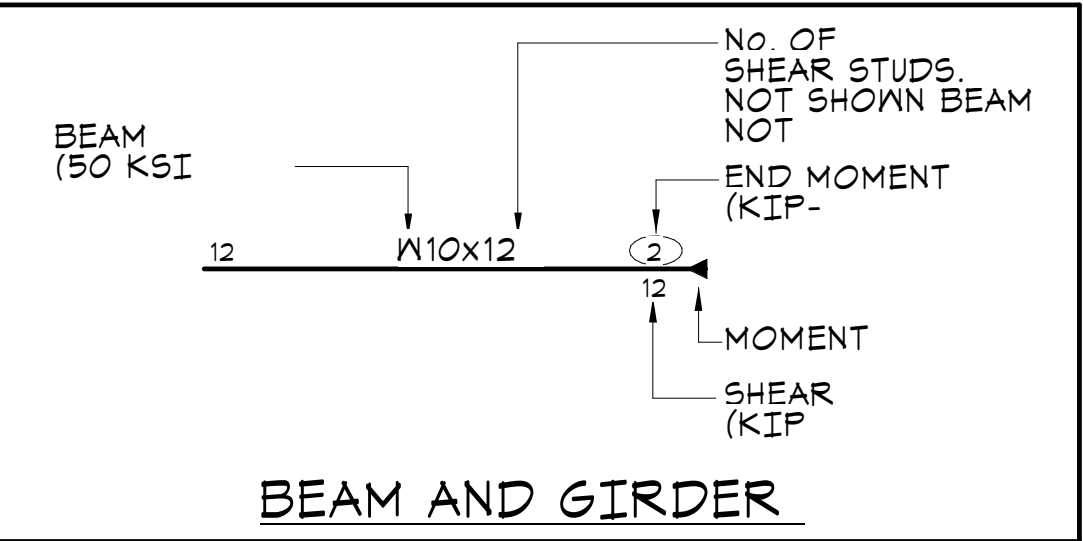
MEZZANINE AND LOW ROOF
FRAMING PLAN



1/4"=1'-0"

- ROOF DECK CONSTRUCTION: 1/2" WOOD STRUCTURAL PANELS. SEE GENERAL NOTES, DRAWING S100.
- COORDINATE SIZE AND LOCATION OF ALL ROOF PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL ROOF PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN TYPICAL ROOF/FLOOR OPENING DETAIL. DO NOT SCALE OPENING.
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

FRAMING LEGEND		
JOISTS/RAFTERS	BEAM/HEADER	WOOD POSTS
<p>SPAN DIRECTION OF FRAMING</p> <p>EXTENT OF FRAMING</p> <p>FRAMING MARK, SEE SCHED.</p> <p>DASHED WHERE BUILT OVER BY OTHER FRAMING</p> <p>DOWNSLOPE DIRECTION OF SLOPING MEMBERS</p>	<p>NO. OF PLIES IN BUILT-UP BEAM</p> <p>BEAM # (3)-2x10</p> <p>BEAM SIZE (K&D)</p> <p>3 1/2x11 7/8 LVL *</p> <p>BEAM I.D.</p> <p>BEAM REACTION (LBS)</p> <p>* SEE LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) NOTE NO.3.</p>	<p>POST DOWN</p> <p>POST UP AND DOWN</p> <p>POST UP</p> <p>POST SHALL BE:</p> <p>(3)-2x4 MIN. IN 2x4 STUD WALL, U.O.N.</p> <p>(2)-2x5 MATCHING STUD WALL THICKNESS MIN. IN STUD WALLS GREATER THAN 2x4, U.O.N.</p>



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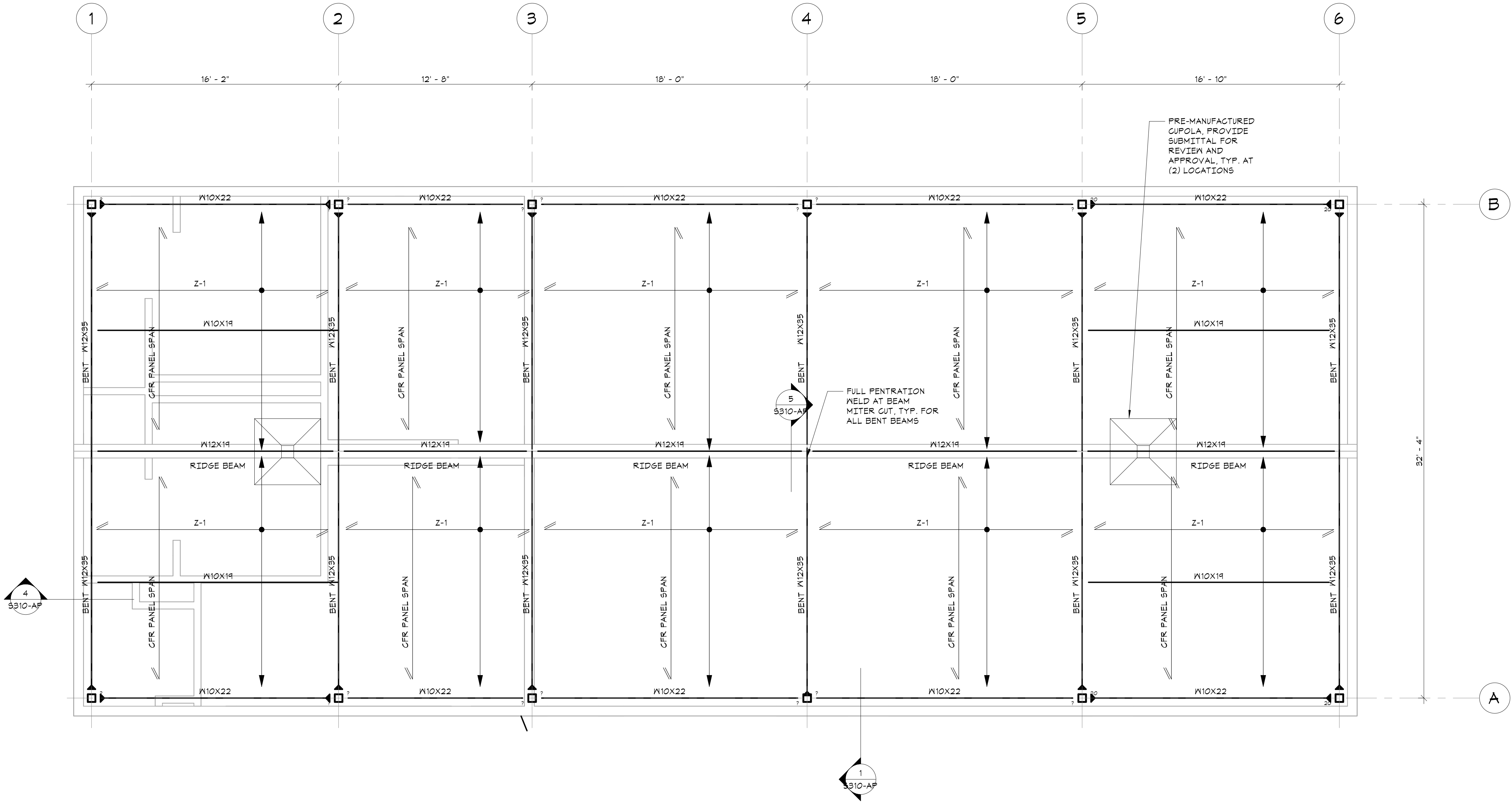
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No.	Date	Issue

Sheet Title

ROOF FRAMING
PLAN

Job No.	2023-1028	Sheet Number
Date	11-01-2018	
Scale	AS NOTED	S103-AP
Drawn / Checked	JM EM	

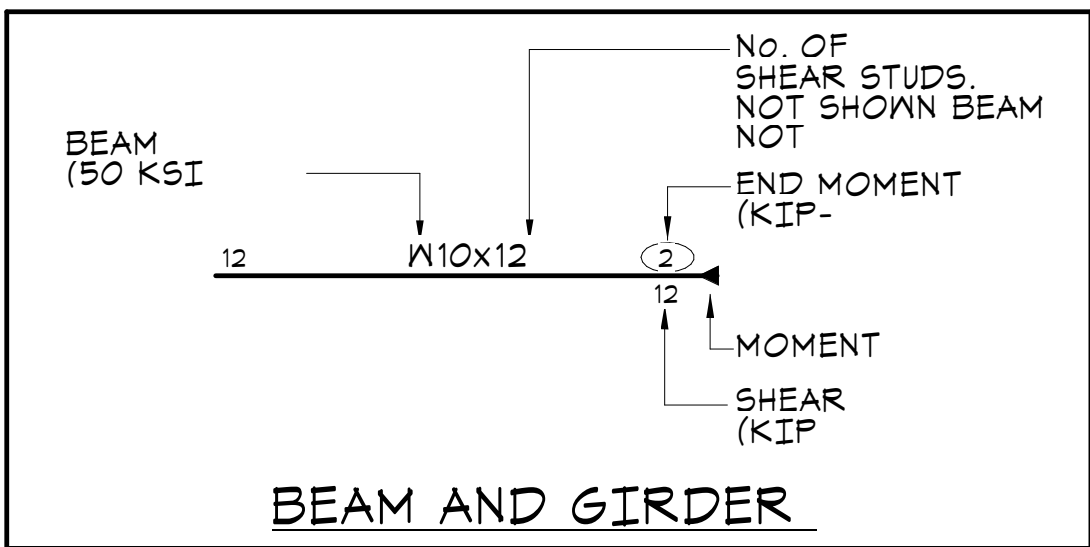


ROOF FRAMING PLAN

1/4"=1'-0"



- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK): 12'-0" UNLESS OTHERWISE NOTED THUS [1/-X'-XX"] FROM ELEVATION DATUM OF 0'-0".
- ROOF DECK CONSTRUCTION: 4" CFR COMPOSITE ROOF PANELS BY METL-SPAN.
- COORDINATE SIZE AND LOCATION OF ALL ROOF PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL ROOF PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN 'TYPICAL ROOF/FLOOR OPENING DETAIL'. DO NOT SCALE OPENINGS.
- REINFORCE STEEL JOISTS AT SUPPORT OF PIPES/CONDUITS AND ANY CONCENTRATED LOADS AT TOP OR BOTTOM CHORDS, AS PER 'TYPICAL JOIST REINFORCING DETAIL'.
- 'Z-1' INDICATES 6" DEEP Z-PURLIN AT 4'-0" O.C. Z-PURLINS SHALL BE 6" DEEP W/ 2 1/2" FLANGES AND MATERIAL THICKNESS EQUAL TO 0.049" (12g).
- 'MF' INDICATES MOMENT FRAME.
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.



DISTRICT-WIDE
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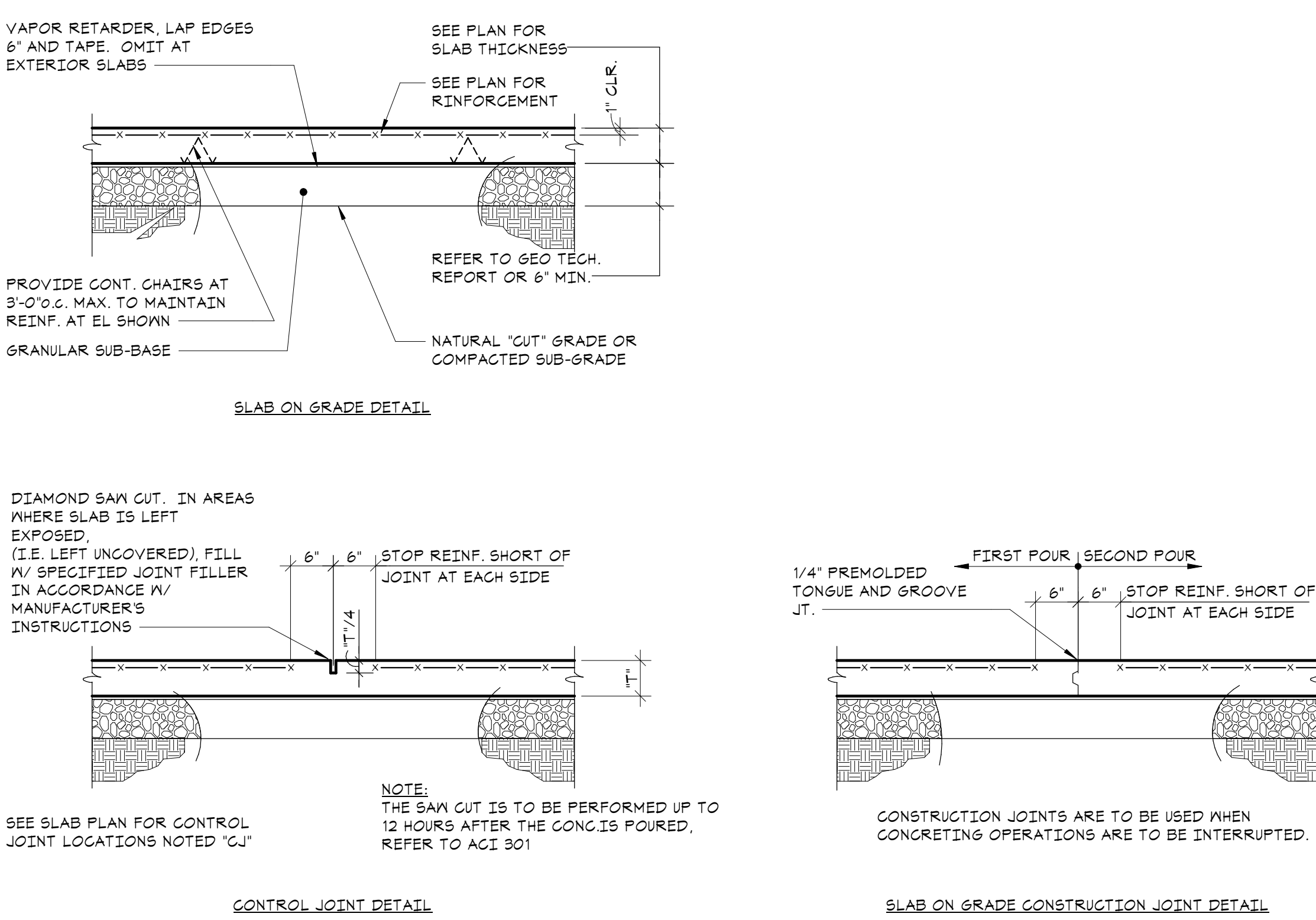
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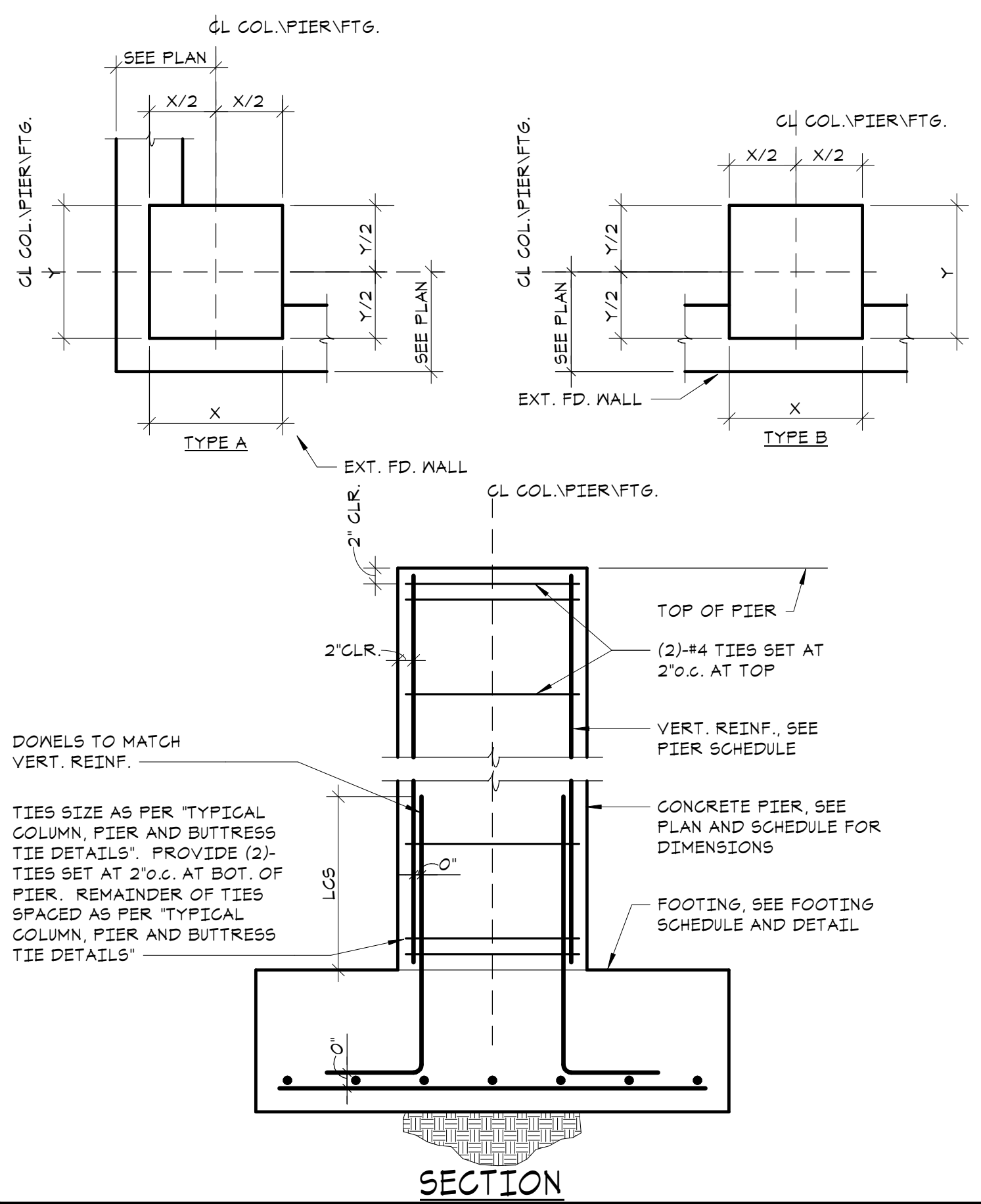
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FOUNDATION
SCHEDULES AND
TYPICAL DETAILS

Job No.	2023-1028	Sheet Number
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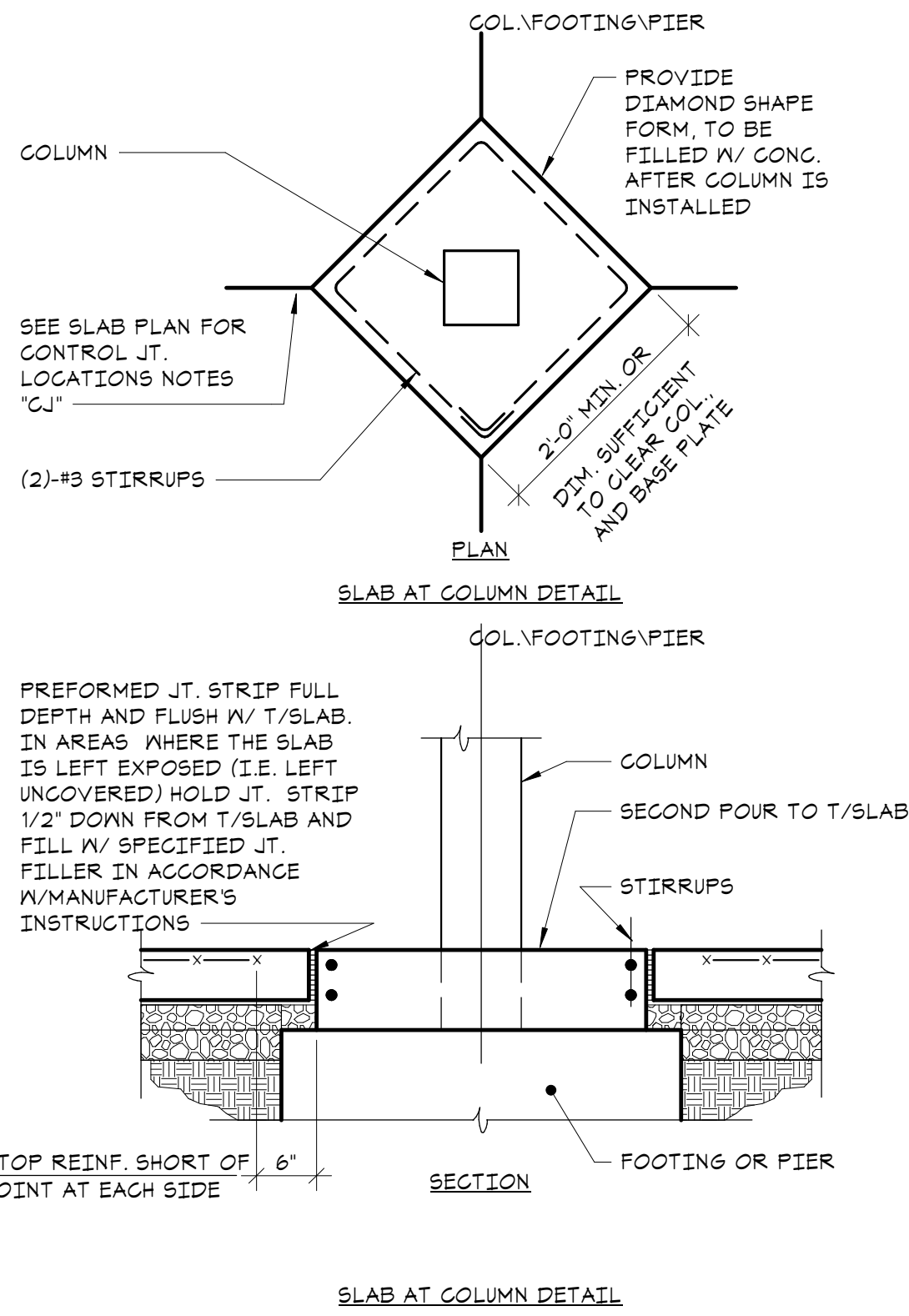
1 TYPICAL SLAB ON GRADE DETAIL
NO SCALE



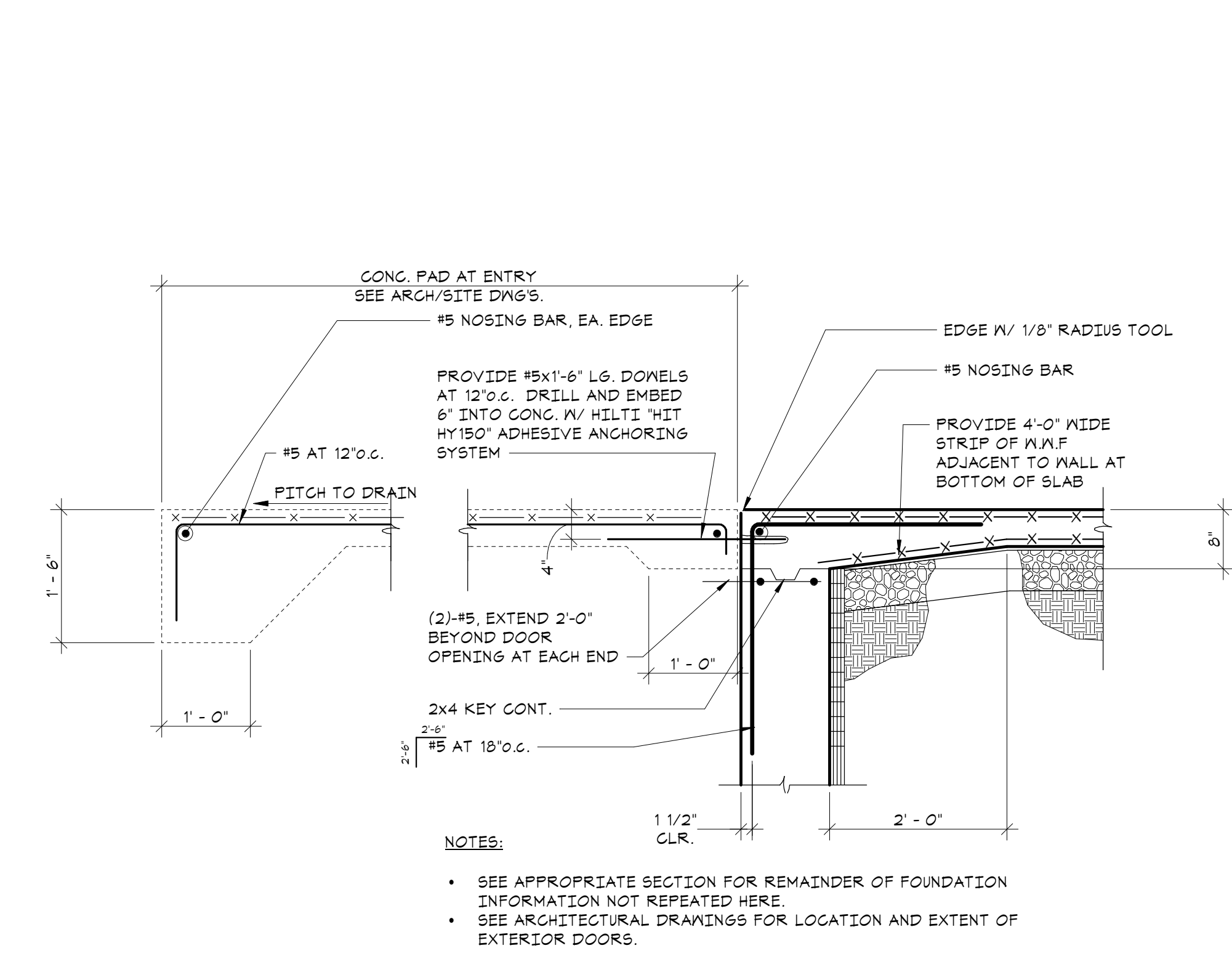
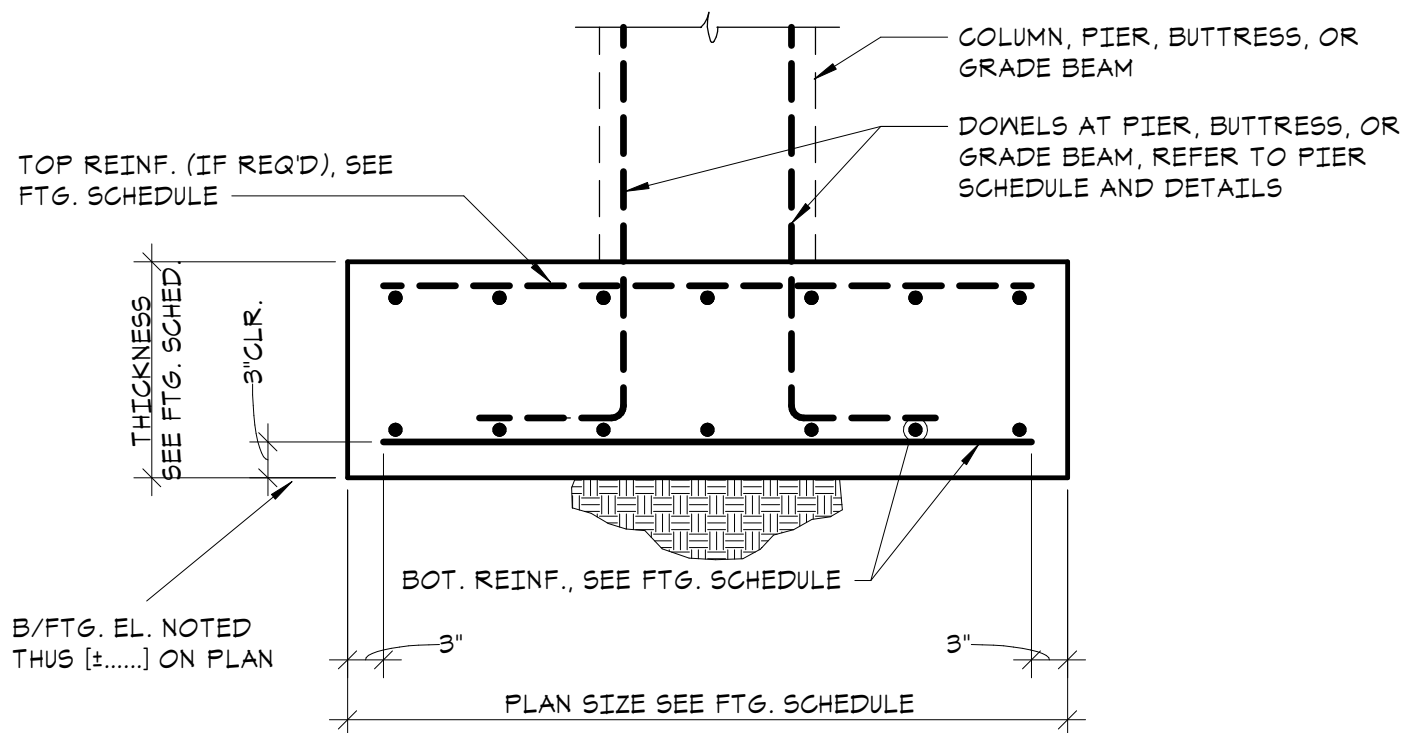
3 TYPICAL PIER SCHEDULE AND PIER DETAILS
NO SCALE

FOOTING SCHEDULE (ALLOWABLE BEARING PRESSURE: 3000 PSF)						
MARK	PLAN SIZE N-S	PLAN SIZE E-W	THICKNESS	BOTTOM REINF. N-S	BOTTOM REINF. E-W	REMARKS
F-4.0	4'-0"	4'-0"	1'-4"	(6)-#5	(6)-#5	* TOP REINFORCEMENT REQUIRED
F-6.5	6'-6"	6'-6"	1'-4"	(8)-#5	(8)-#5	* TOP REINFORCEMENT REQUIRED
F-7.5	7'-6"	7'-6"	1'-4"	(9)-#5	(9)-#5	* TOP REINFORCEMENT REQUIRED
NOTES: 1. REFER TO FOOTING DETAILS AND FOUNDATION NOTES IN USING THIS SCHEDULE. 2. ** PROVIDE TOP REINFORCING IN ADDITION TO BOTTOM REINFORCING. TOP REINFORCING SHALL BE PLACED 2\"/>						

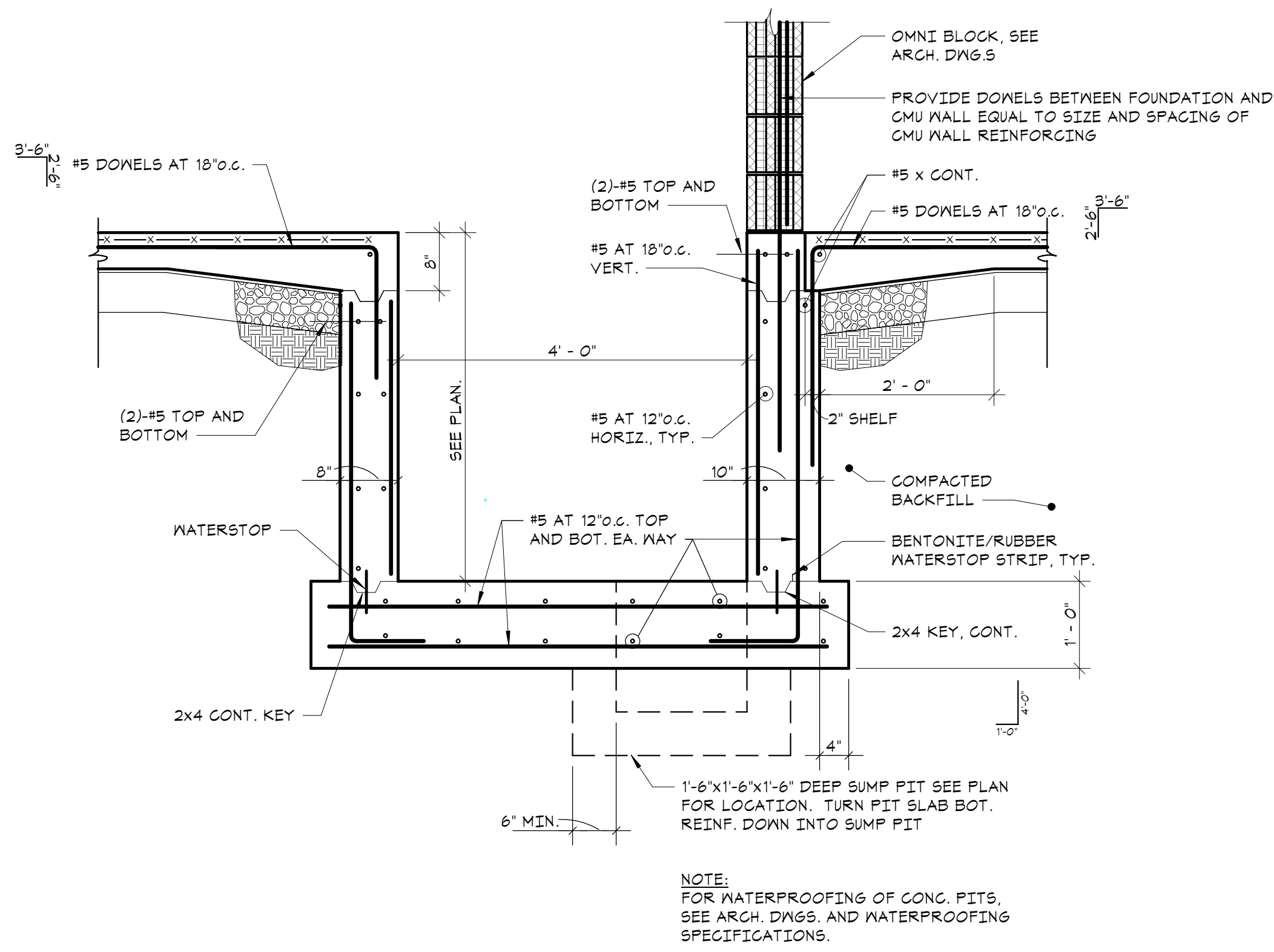
5 FOOTING SCHEDULE AND DETAIL
NO SCALE



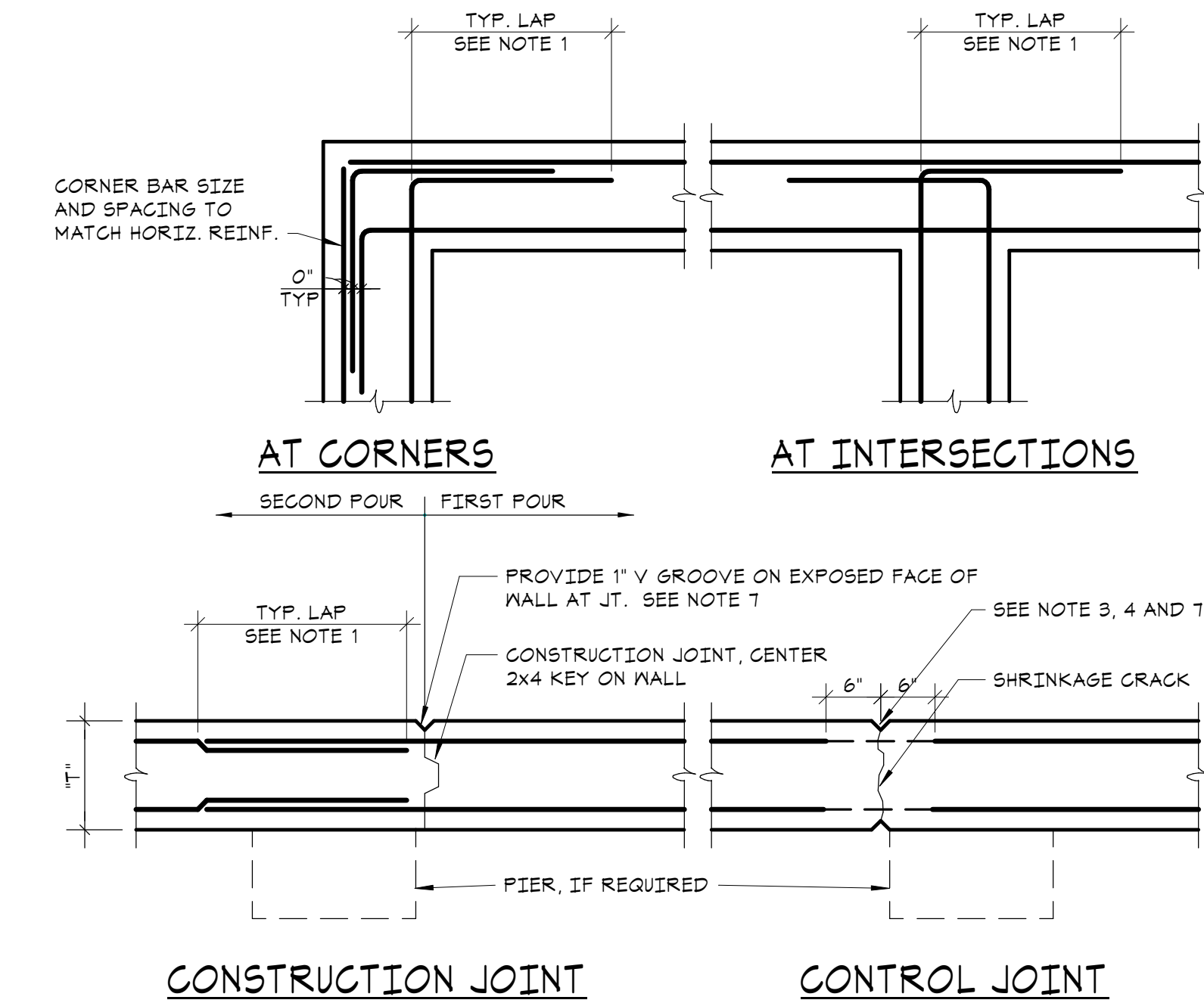
4 TYPICAL COLUMN, PIER AND BUTTRESS TIE DETAILS
NO SCALE



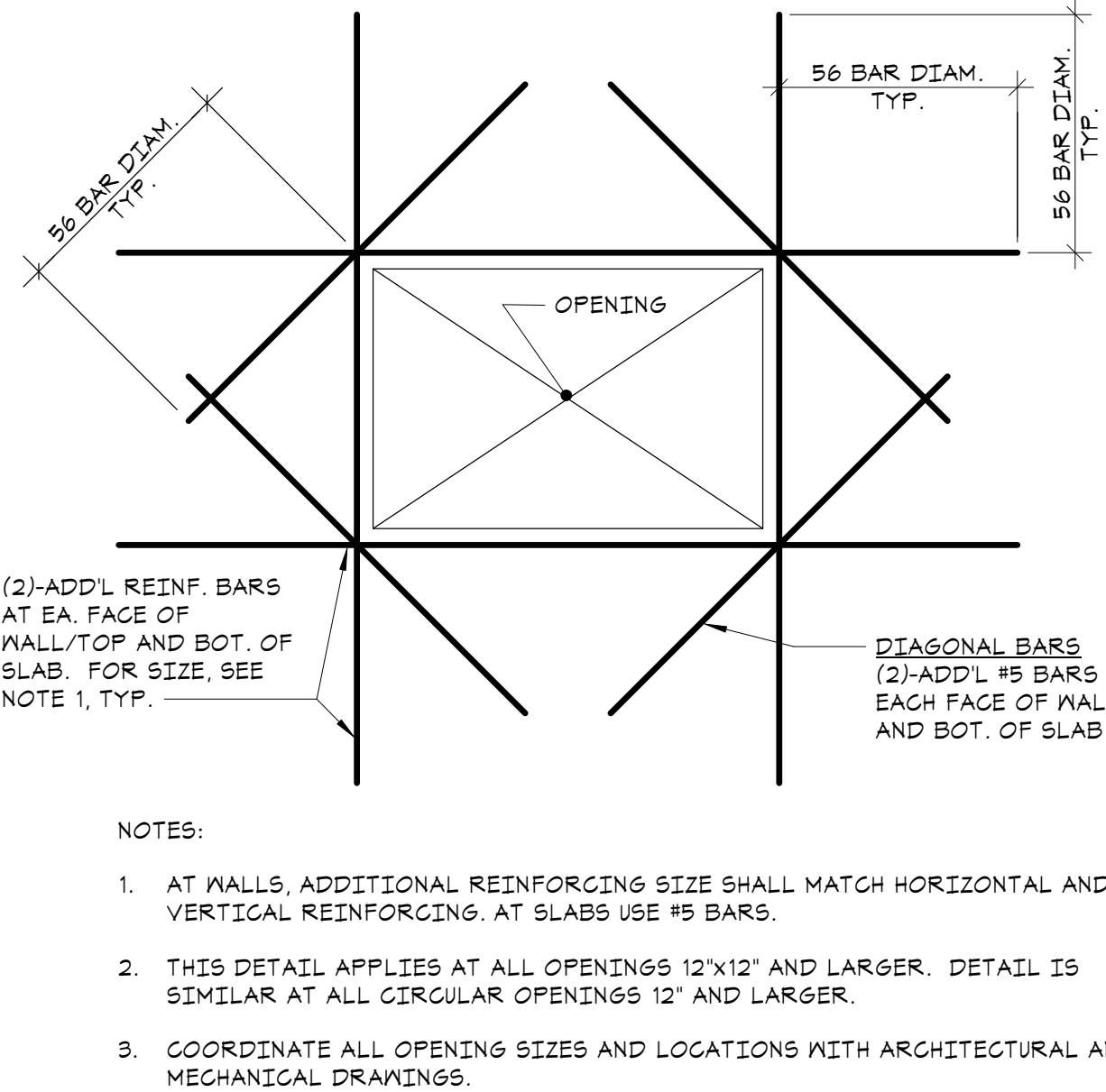
2 TYPICAL FOUNDATION WALL DETAIL AT EXTERIOR DOORS
NO SCALE



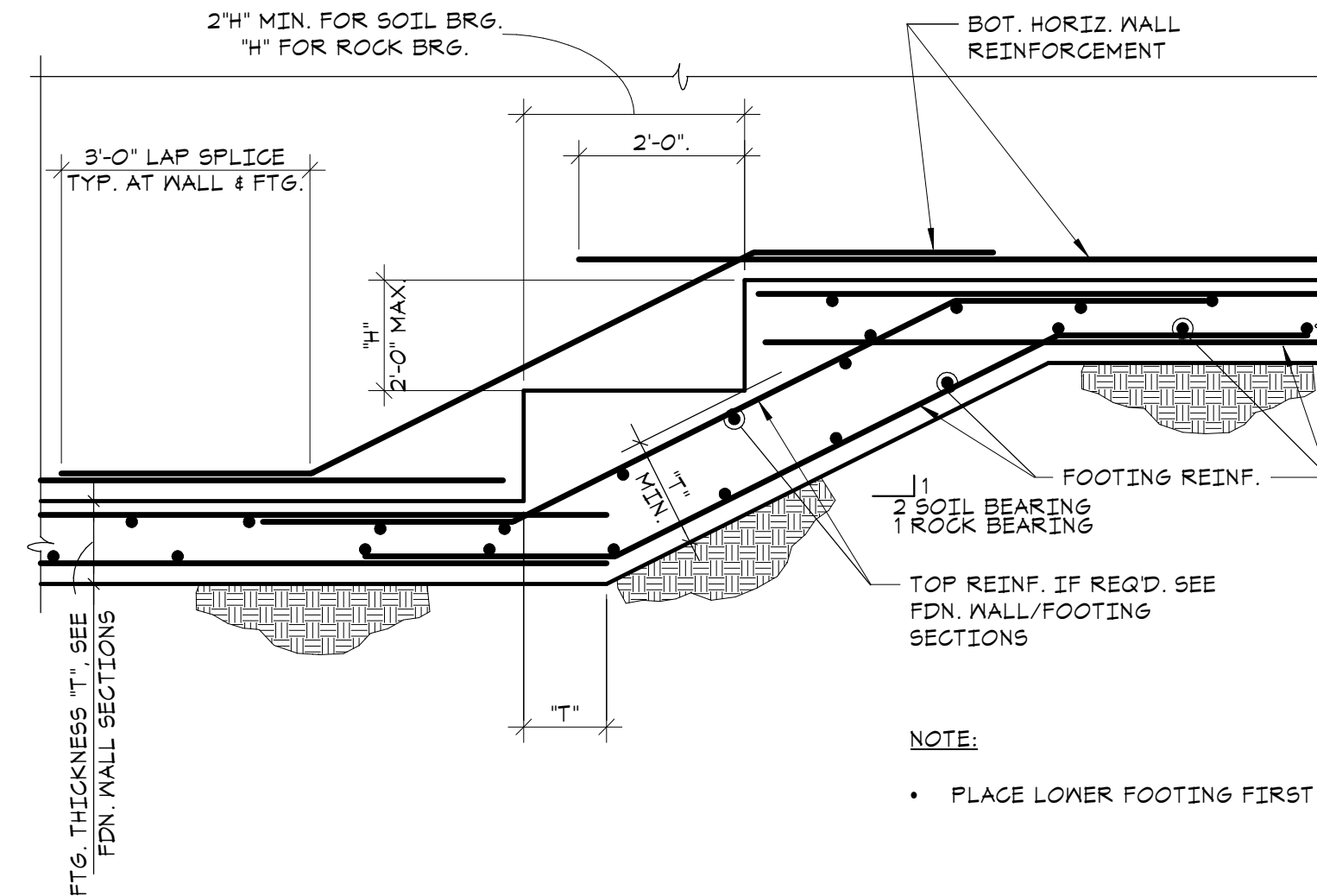
6 TYPICAL PIT DETAIL
NO SCALE



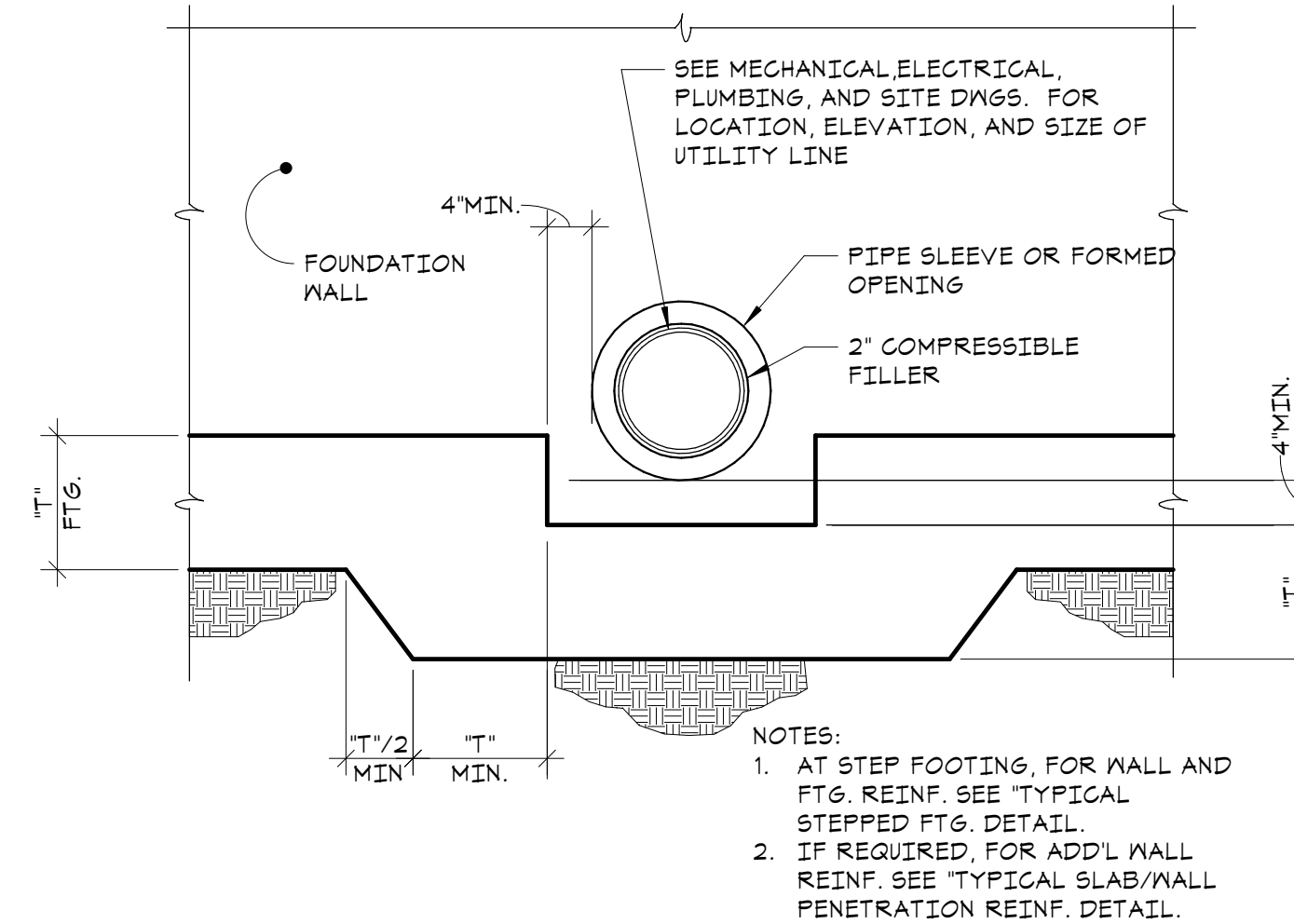
1 TYPICAL CONCRETE WALL CONSTRUCTION DETAIL
NO SCALE



2 TYPICAL SLAB/WALL PENETRATION REINFORCING DETAIL
NO SCALE



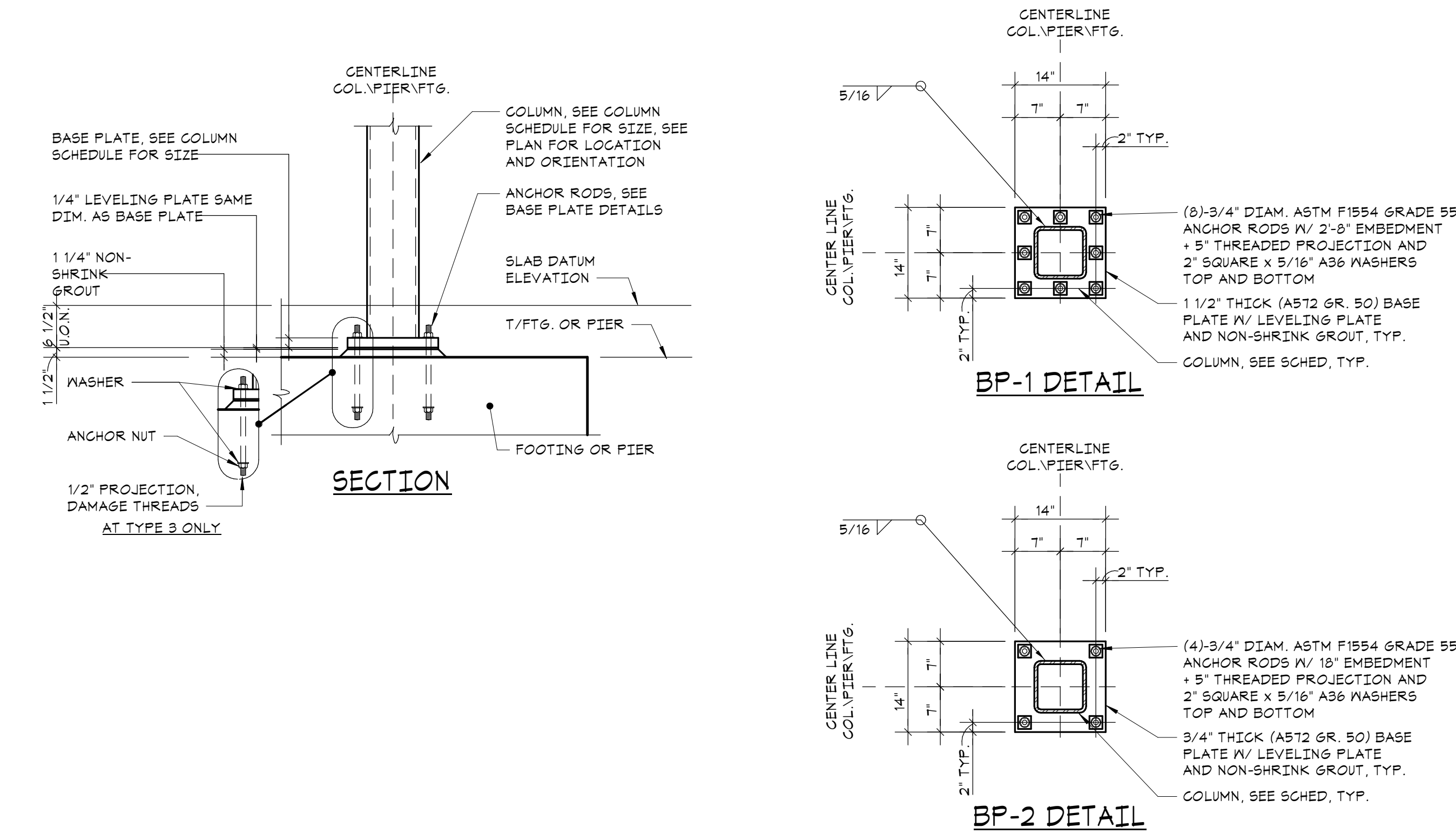
3 TYPICAL STEPPED FOOTING DETAIL
NO SCALE



4 TYPICAL STEP FOOTING DETAIL AT WALL PIPE PENETRATION
NO SCALE

SCHEDULE OF EMBEDMENT AND SPLICE LENGTH																		
BAR SIZE	COMPRESSION		TENSION (F _c = 3000 psi)								TENSION (F _c = 4000 psi)							
	EMBED. LENGTH	LAP SPLICE LENGTH	EMBEDMENT LENGTH				LAP SPLICE LENGTH				EMBEDMENT LENGTH				LAP SPLICE LENGTH			
			TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
			CATEGORY SEE NOTE 1		CATEGORY SEE NOTE 1		CATEGORY SEE NOTE 1		CATEGORY SEE NOTE 1		CATEGORY SEE NOTE 1		CATEGORY SEE NOTE 1		CATEGORY SEE NOTE 1		CATEGORY SEE NOTE 1	
			I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
#3	4"	12"	22"	33"	11"	25"	24"	43"	23"	33"	14"	28"	15"	22"	25"	37"	20"	24"
#4	11"	15"	24"	43"	22"	33"	38"	56"	24"	43"	25"	37"	14"	24"	33"	44"	25"	38"
#5	14"	19"	36"	54"	28"	42"	47"	71"	37"	55"	31"	47"	24"	36"	41"	62"	32"	47"
#6	17"	23"	43"	65"	33"	50"	56"	85"	43"	65"	37"	56"	24"	43"	44"	73"	38"	56"
#7	20"	27"	63"	94"	48"	72"	82"	123"	63"	94"	54"	81"	42"	63"	71"	106"	55"	82"
#8	22"	30"	72"	107"	55"	83"	94"	140"	72"	108"	62"	93"	48"	72"	81"	121"	63"	94"
#9	25"	34"	81"	121"	62"	93"	106"	158"	81"	121"	70"	105"	54"	81"	91"	137"	71"	106"
#10	28"	38"	91"	136"	70"	105"	114"	177"	91"	137"	78"	118"	61"	91"	103"	154"	80"	114"
#11	31"	43"	101"	151"	75"	116"	132"	191"	102"	151"	87"	131"	67"	101"	114"	171"	88"	132"
#14	38"	NP	121"	181"	93"	140"	NP	NP	NP	NP	105"	157"	81"	121"	NP	NP	NP	NP
#18	50"	NP	161"	242"	124"	186"	NP	NP	NP	NP	140"	204"	108"	161"	NP	NP	NP	NP
SEE NOTE 2	LCE	LCS	LTE				LTS				LTE				LTS			

5 SCHEDULE OF EMBEDMENT AND SPLICE LENGTH
NO SCALE



6 TYPICAL STEEL COLUMN BASE PLATE DETAILS
NO SCALE

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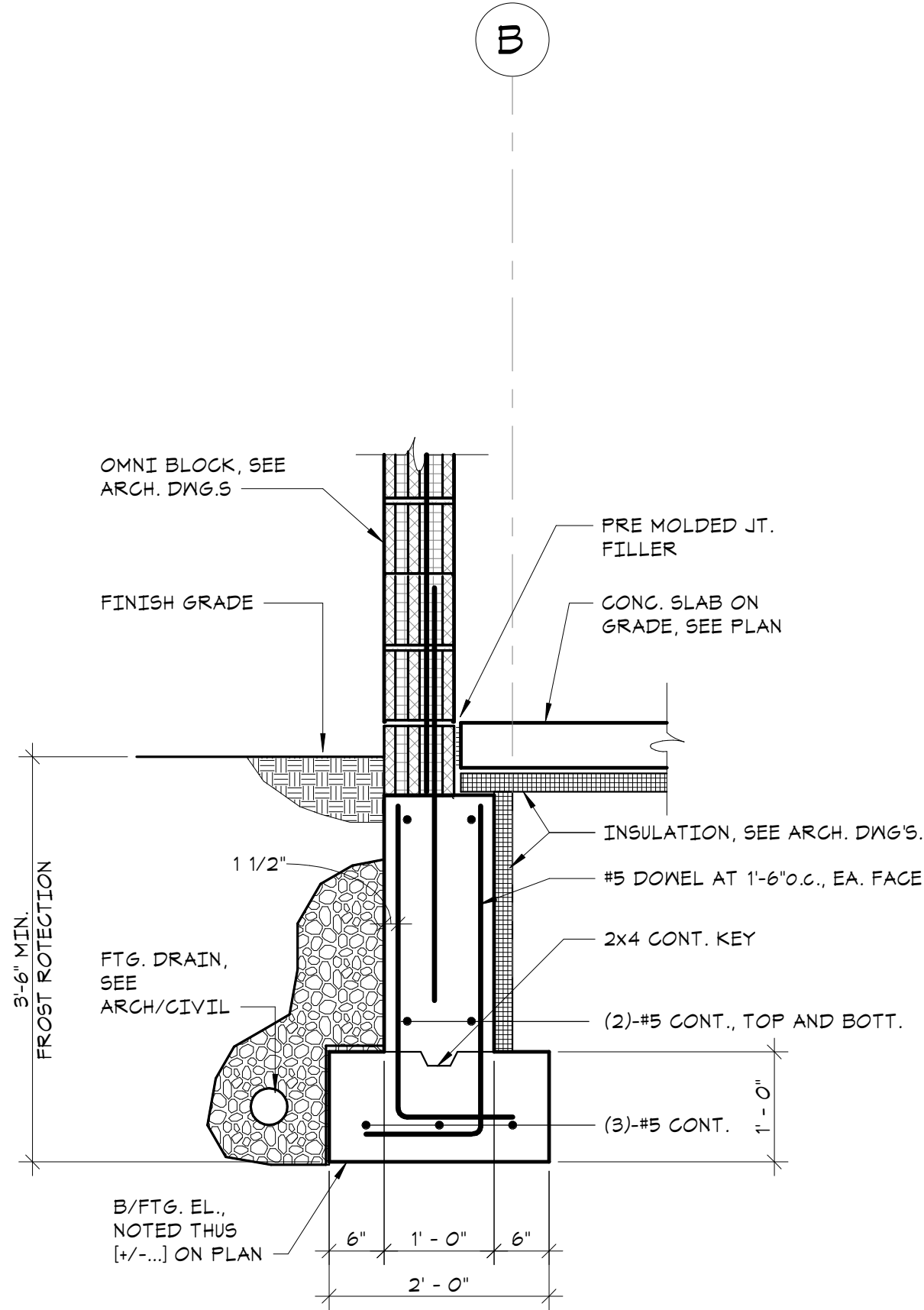
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1 SECTION
3/4" = 1'-0"

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Sheet Title

ATHLETIC
PAVILION
FOUNDATION
SECTIONS

Job No.	2023-1028	Sheet Number
Date	09/07/23	
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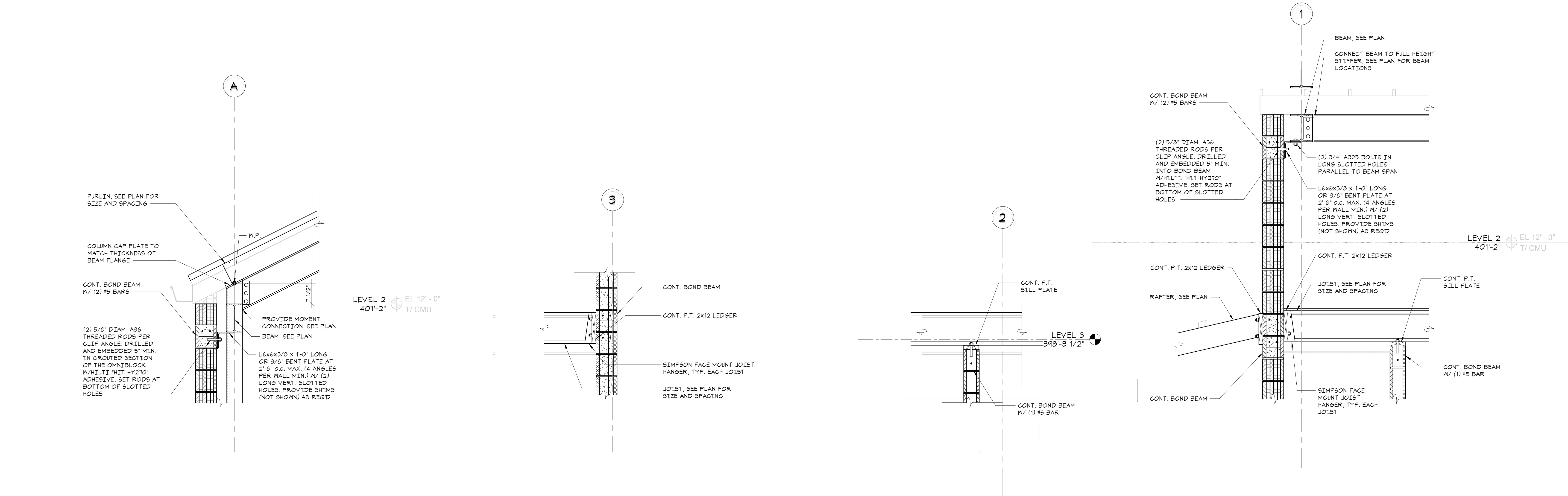
Professional Seal

4	09/16/2024	ISSUE FOR BID
3	10/27/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/01/2023	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

ATHLETIC
PAVILION
FRAMING
SECTIONS

Job No. 2023-1028	Sheet Number
Date 09/07/23	
Scale AS NOTED	S310-AP
Drawn / Checked SGL	

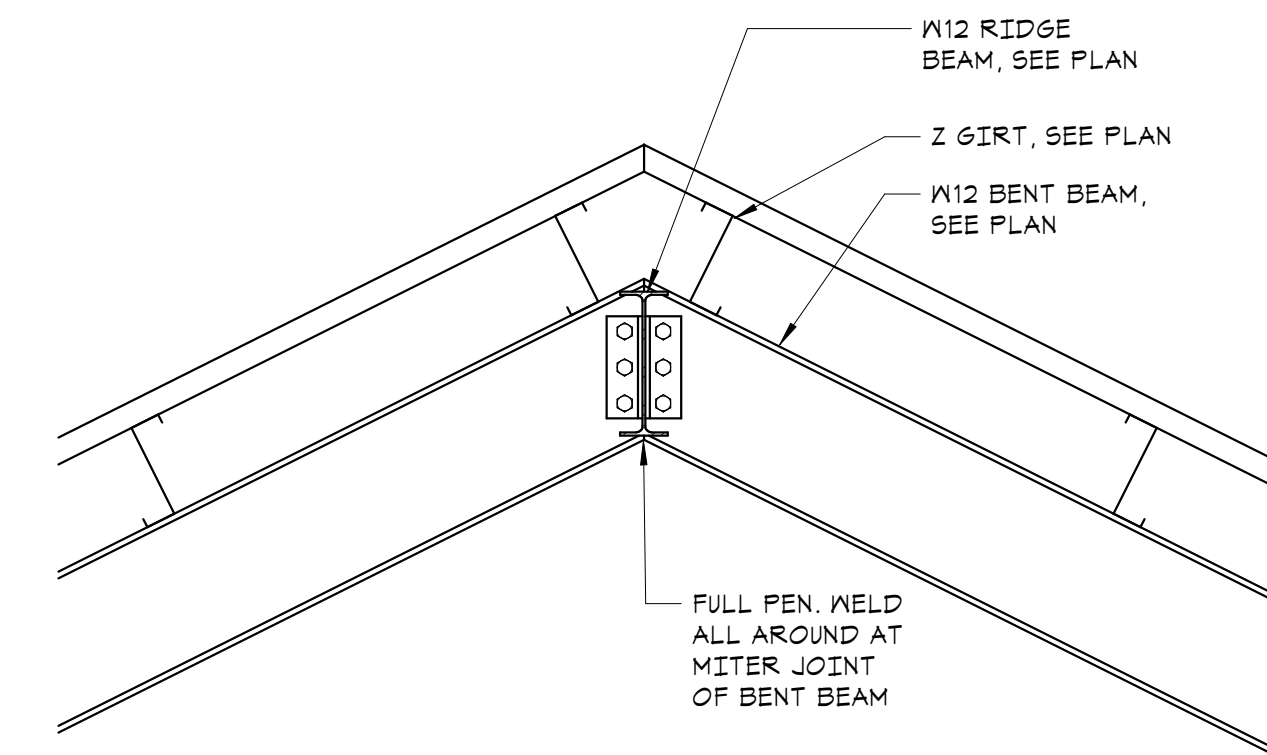


1 SECTION
3/4" = 1'-0"

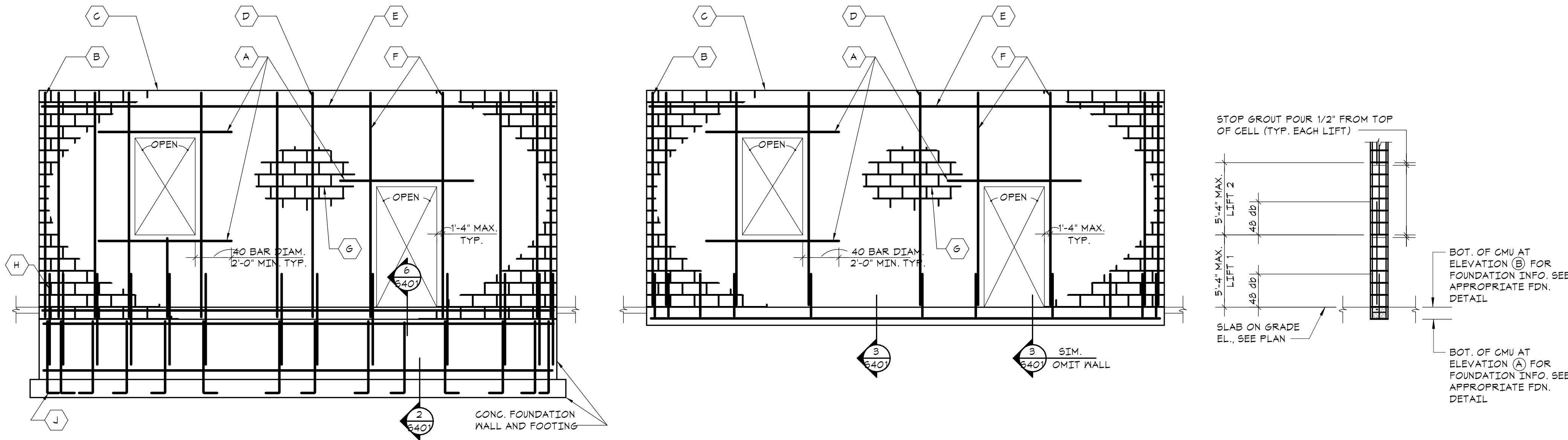
2 SECTION
3/4" = 1'-0"

3 SECTION
3/4" = 1'-0"

4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



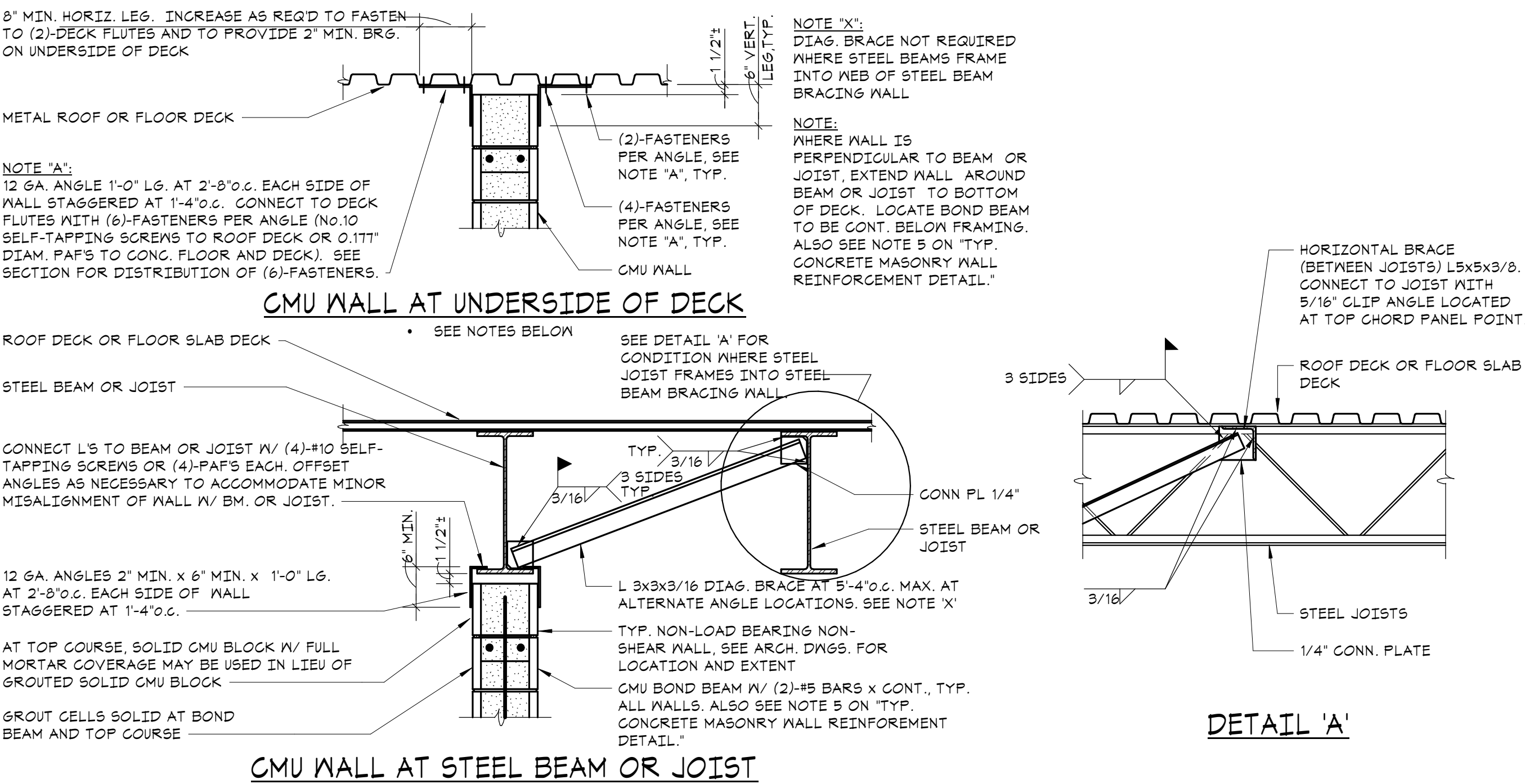
ELEVATION AT EXTERIOR WALLS

ELEVATION AT PARTITION WALLS

SECTION - LOW LIFT WALL GROUTING DETAIL

1 TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL

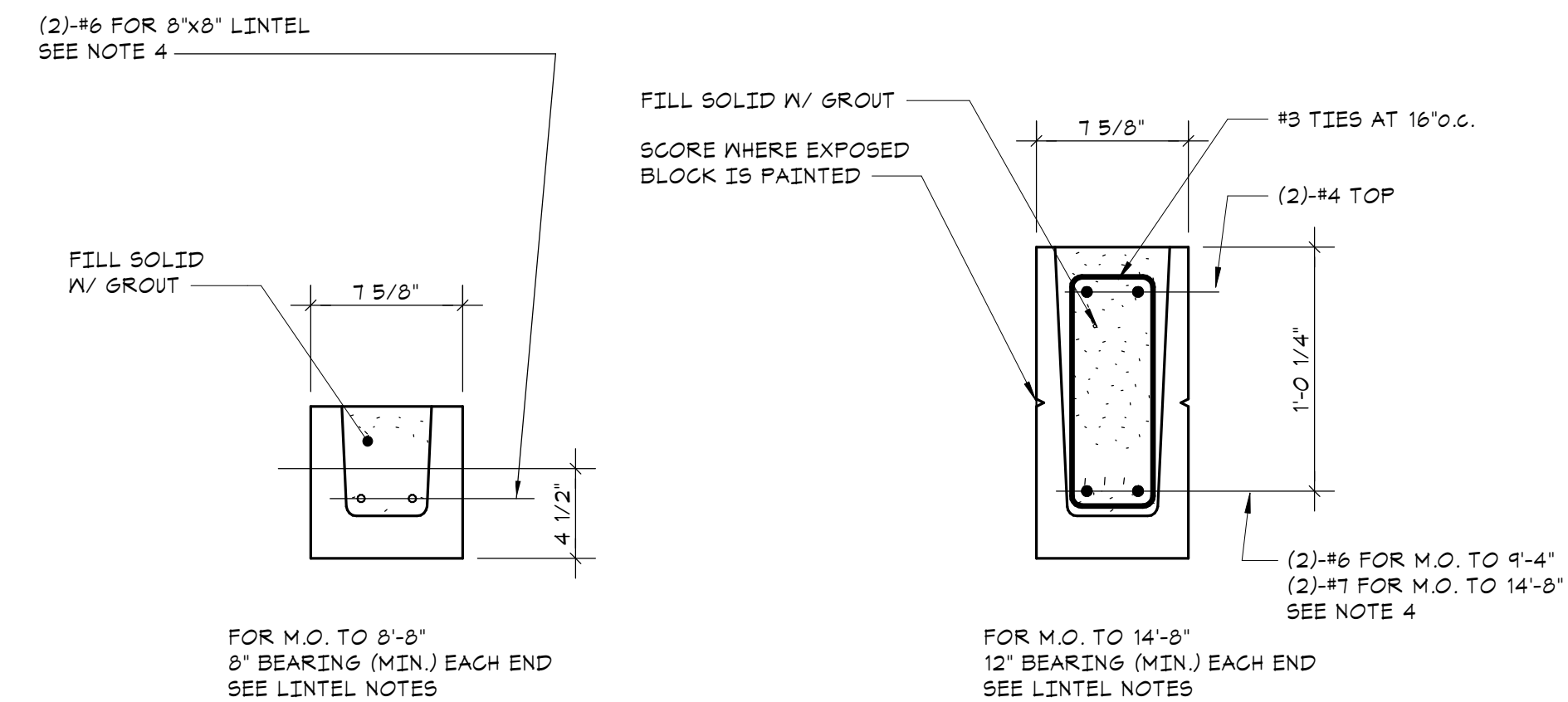
NO SCALE



DETAIL 'A'

2 TYPICAL BRACING DETAIL AT TOP OF PARTITION WALL

NO SCALE



5 SECTION

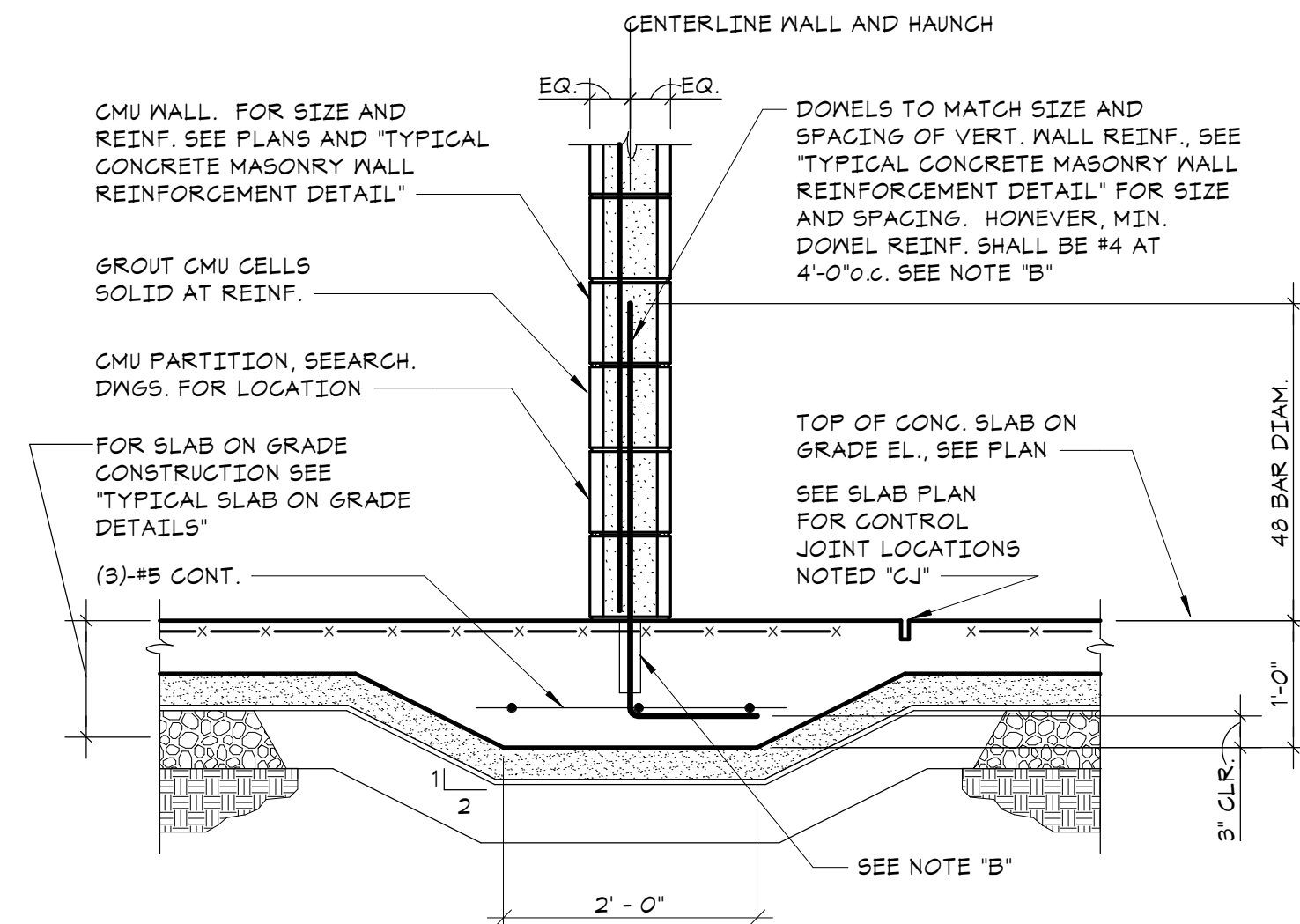
NO SCALE

KEYNOTES	
(A)	(2)-#5 HORIZ. REINF. GROUTED SOLID IN BOND BEAM/COURSE TYP. ABOVE AND BELOW ALL OPENINGS. FOR HORIZONTAL REINFORCING IN MASONRY LINTELS SEE "TYPICAL MASONRY LINTEL IN NON-LOAD BEARING WALL DETAIL".
(B)	VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT WALL ENDS, CORNERS, AND EACH SIDE OF CJS, SEE REINFORCEMENT SCHEDULE
(C)	CMU WALL. FOR SIZE. SEE PLANS AND REINFORCEMENT SCHEDULE.
(D)	TYP. VERTICAL REINF., SEE REINFORCEMENT SCHEDULE (U.O.N. BY SECTION). FILL CELLS CONTAINING REINF. SOLID W/ GROUT.
(E)	(2)-#5 HORIZ. REINF. AT TOP OF WALL GROUTED SOLID IN BOND BEAM COURSE. PLACE REINF. ONE COURSE LOWER WHERE WALL ABUTS FLOOR ABOVE.
(F)	VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT BOTH SIDES OF ALL WALL OPENINGS, SEE REINFORCEMENT SCHEDULE.
(G)	HORIZ. JOINT REINFORCING, SEE GENERAL NOTES.
(H)	PROVIDE REINFORCING DONELS BETWEEN FDN. AND MASONRY WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0" O.C.). REINFORCING DONELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM.
(J)	PROVIDE REINFORCING DONELS BETWEEN FDN. AND MASONRY WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0" O.C.). REINFORCING DONELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM.

REINFORCEMENT SCHEDULE		
WALL DESCRIPTION	WALL ELEVATION TYPE	VERTICAL REINFORCEMENT
8" CMU EXTERIOR WALLS OMNI-BLOCK	A	(D) #5 AT 48" O.C. (B) (2)-#5 (F) (1)-#5
8" CMU PARTITIONS	B	(D) #5 AT 48" O.C. (B) (1)-#5 (F) (1)-#5
8" CMU PARTITIONS	B	(D) #4 AT 48" O.C. (B) (1)-#4 (F) (1)-#4

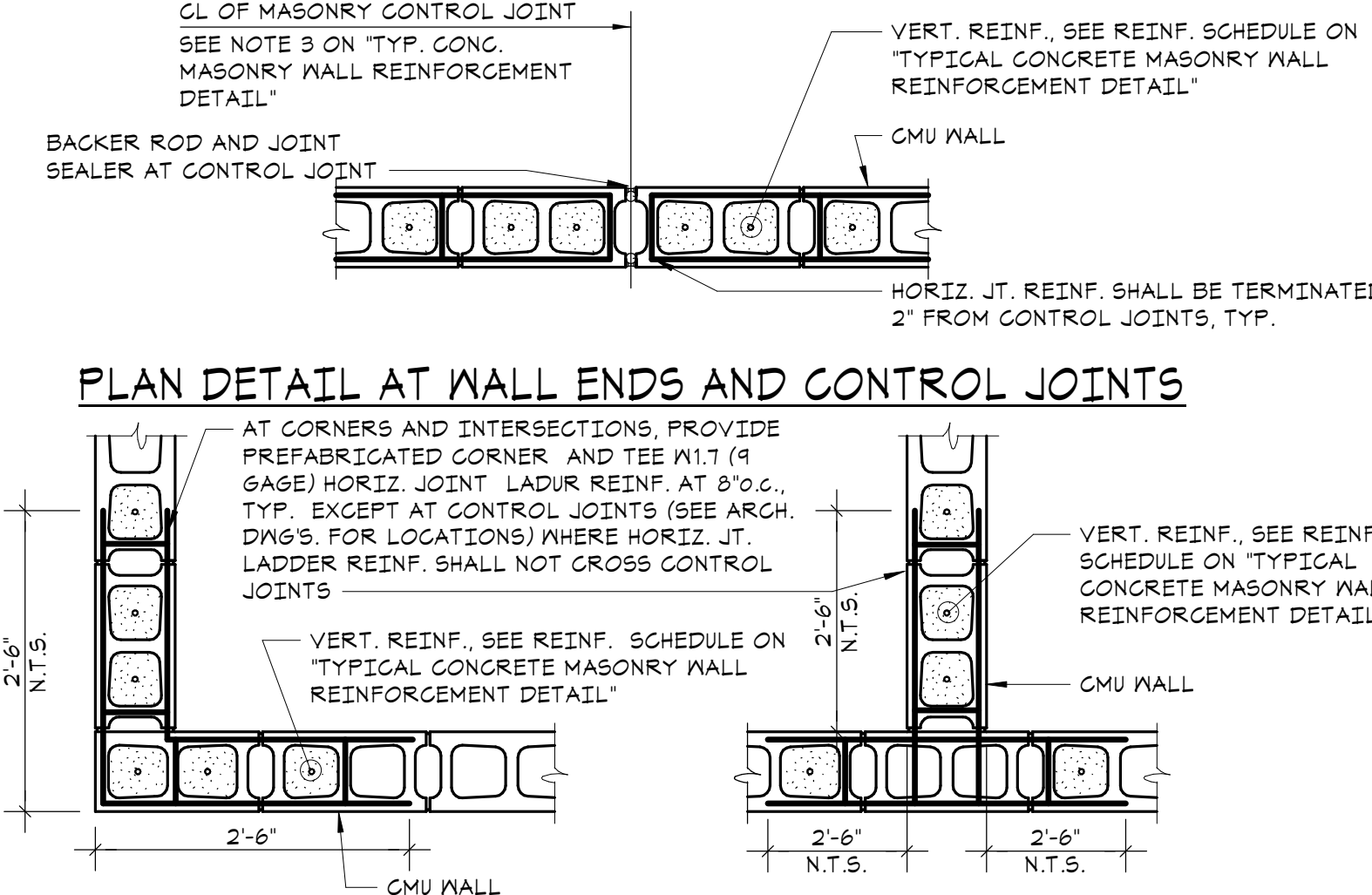
- SEE WALL ELEVATIONS (A) AND (B) FOR PLACEMENT OF REINFORCEMENT AND ADDITIONAL REQUIREMENTS.
- ALL WALLS SHALL HAVE HORIZ. JOINT REINFORCEMENT AS PER GENERAL NOTES. AT SHEAR WALLS PROVIDE ADDITIONAL HORIZ. JOINT REINFORCEMENT AS PER TYP. REINF. ARRANGEMENTS AT CMU SHEAR WALL ENDS, CORNERS, AND INTERSECTIONS.

- NOTES:
- FOR CMU WALL LOCATIONS AND EXTENT, SEE ARCH. DWGS.
 - SEE ARCH. DWGS. FOR LOCATIONS OF CONTROL JOINTS. DO NOT LOCATE CONTROL JOINTS WITHIN 32" OF MASONRY OPENINGS.
 - ALL CMU CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE GROUTED SOLID.
 - ALL GROUTED CELLS SHALL BE MECHANICALLY VIBRATED IN ACCORDANCE WITH ACI 330. IN ADDITION, AFTER 10 MINUTES, MECHANICALLY VIBRATE GROUTED CELLS A SECOND TIME.
 - BOND BEAM AT SLOPING STEEL BEAMS/ROOFS/CEILING: ELEVATION OF CONTINUOUS BOND BEAM MUST VARY W/ SLOPING STL. BM./ROOF/CEILING. WHERE CHANGES COURSE, RUN BOND BEAM IN BOTH COURSES FOR A MINIMUM OF 6'-0".



3 TYPICAL THICKENED SLAB DETAIL

NO SCALE



PLAN DETAIL AT CORNERS AND INTERSECTIONS

4 TYPICAL MASONRY WALL PLAN DETAILS

NO SCALE

DISTRICT-WIDE
CAPITAL IMPROVEMENTS
NEW CONSTRUCTION
& ATHLETIC
UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514



CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
AP: 66-10-04-06-7-052-001
CS: 66-10-04-06-7-052-002
OB: 66-10-04-06-0-026-002
SB: 66-10-04-06-0-036-007

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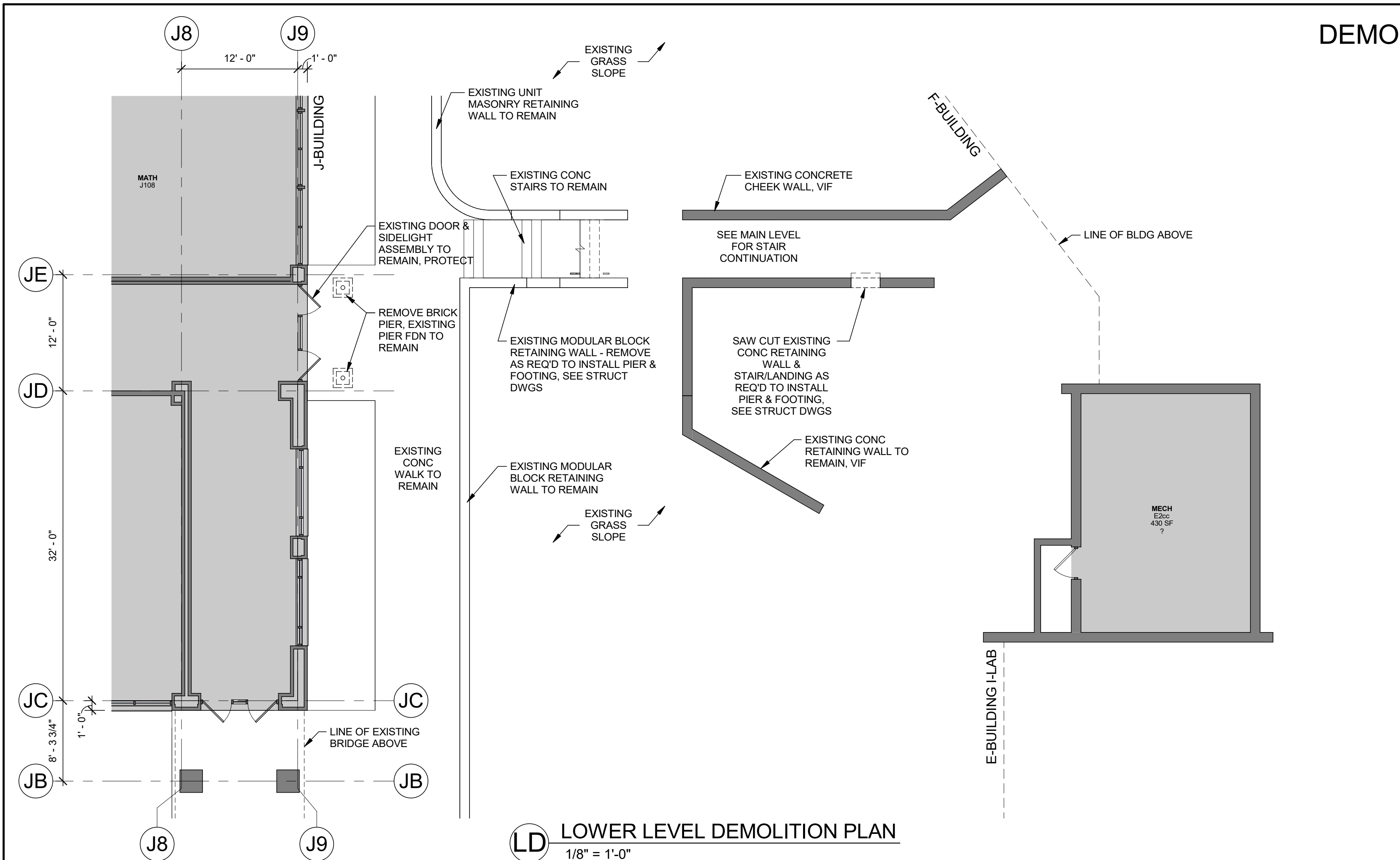
4	09/16/2024	ISSUE FOR BID
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1	08/01/2023	SCHEMATIC DESIGN

No. Date Issue

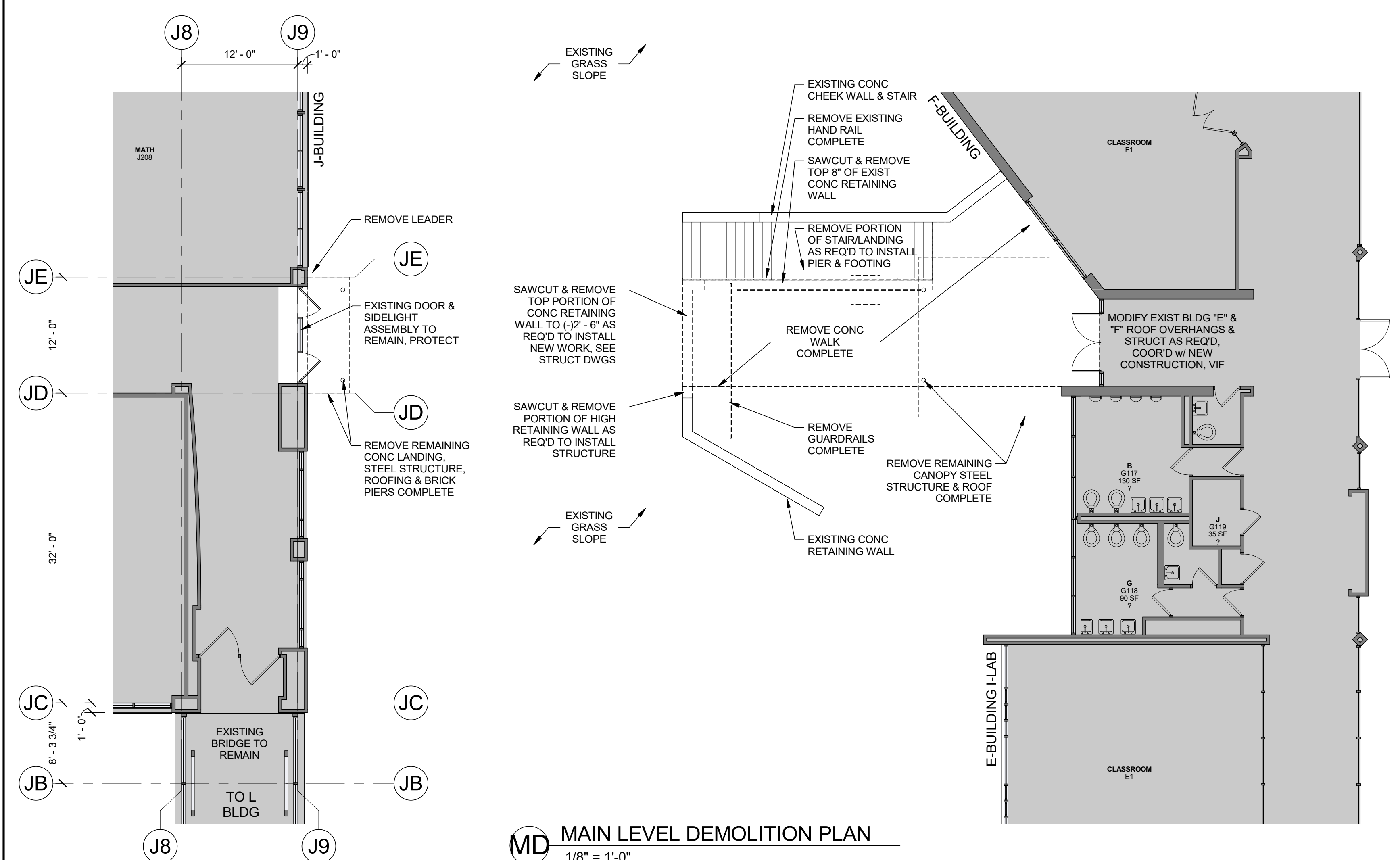
Sheet Title

MASONRY
SCHEDULE AND
TYPICAL DETAILS

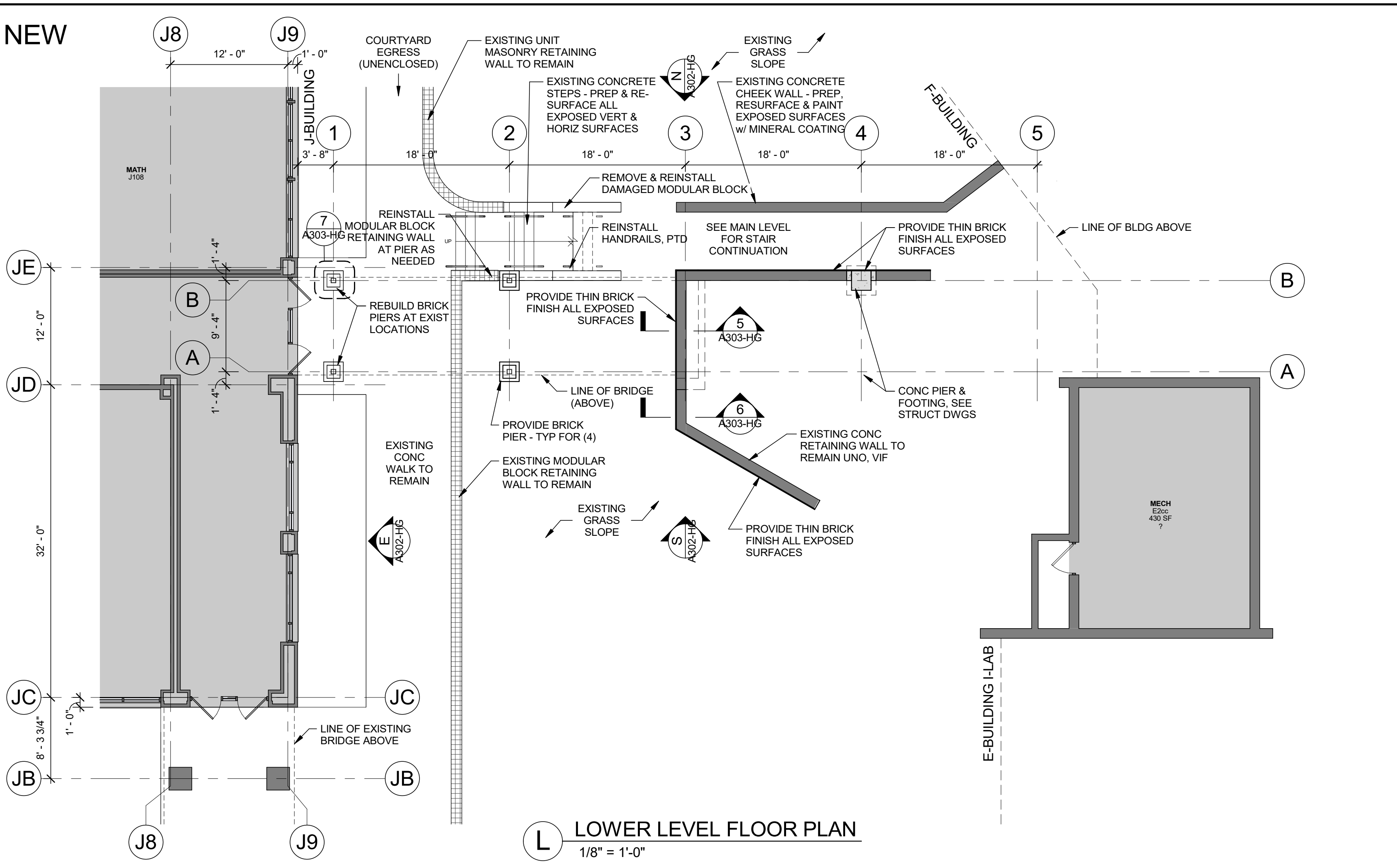
Job No.	2023-1028	Sheet Number
Date	11-01-2018	
Scale	AS NOTED	S401-AP
Drawn / Checked	JM EM	



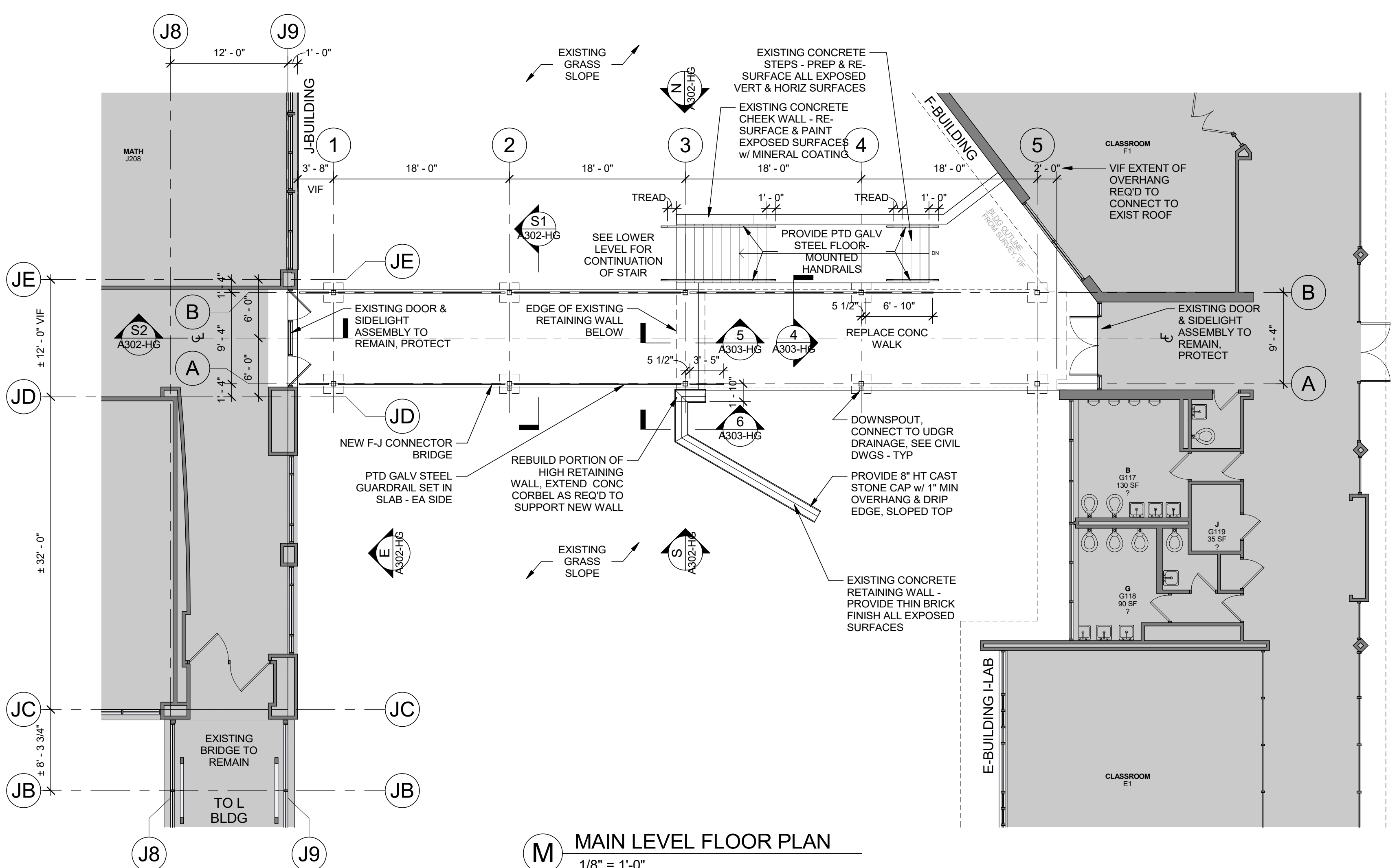
LD LOWER LEVEL DEMOLITION PLAN
1/8" = 1'-0"



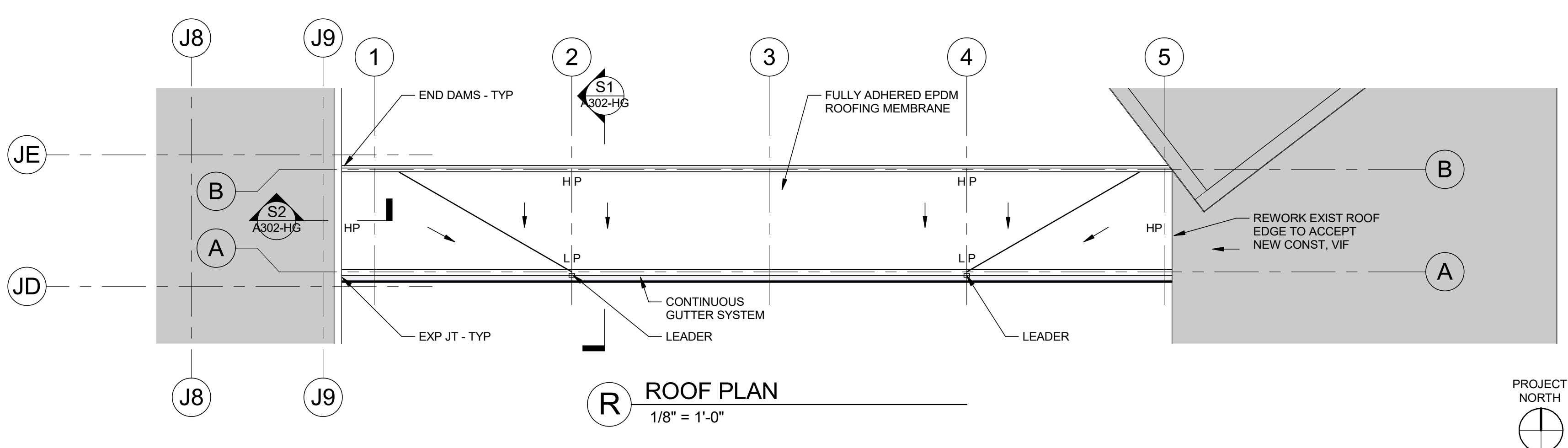
MD MAIN LEVEL DEMOLITION PLAN
1/8" = 1'-0"



L LOWER LEVEL FLOOR PLAN
1/8" = 1'-0"



M MAIN LEVEL FLOOR PLAN
1/8" = 1'-0"



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

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& ATHLETIC
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Chappaqua, NY 10514

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imagine
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P: 914.666.5900 KGDARCHITECTS.COM

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CS: 66-10-04-06-7-027-002
OB: 66-10-04-06-0-026-002
SB: 66-10-04-06-0-036-007

Key Plan
Horace Greeley High School

N

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1	06/01/2023	SCHEMATIC DESIGN

No. _____ Date _____ Issue _____

Sheet Title

HORACE GREELEY
F-J BRIDGE PLANS

Job No.
2023-1028

Date
06/01/2023

Scale
AS NOTED

Drawn / Checked
-/-

Sheet Number

A301-HG

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Key Plan
Horace Greeley High School

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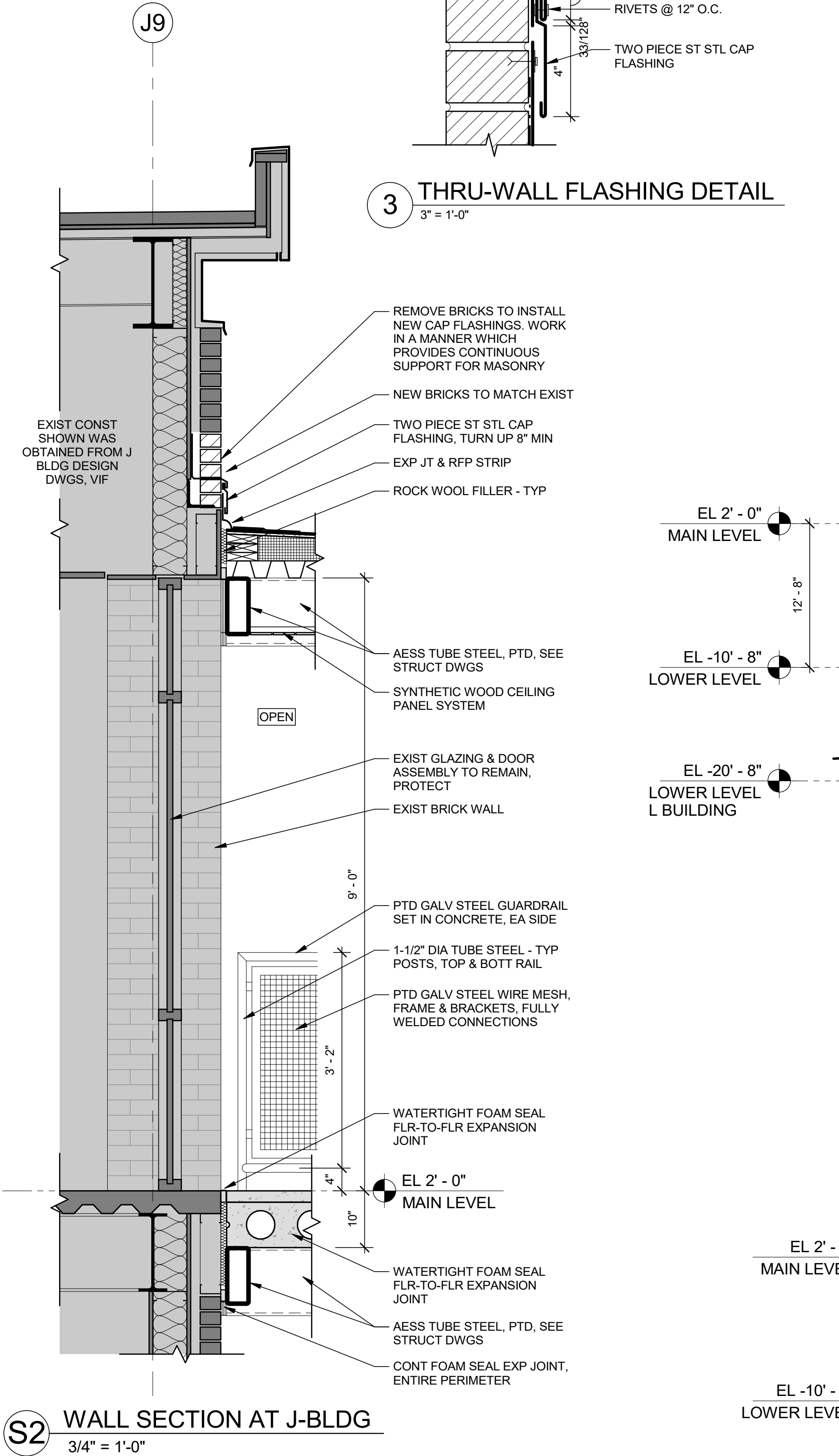
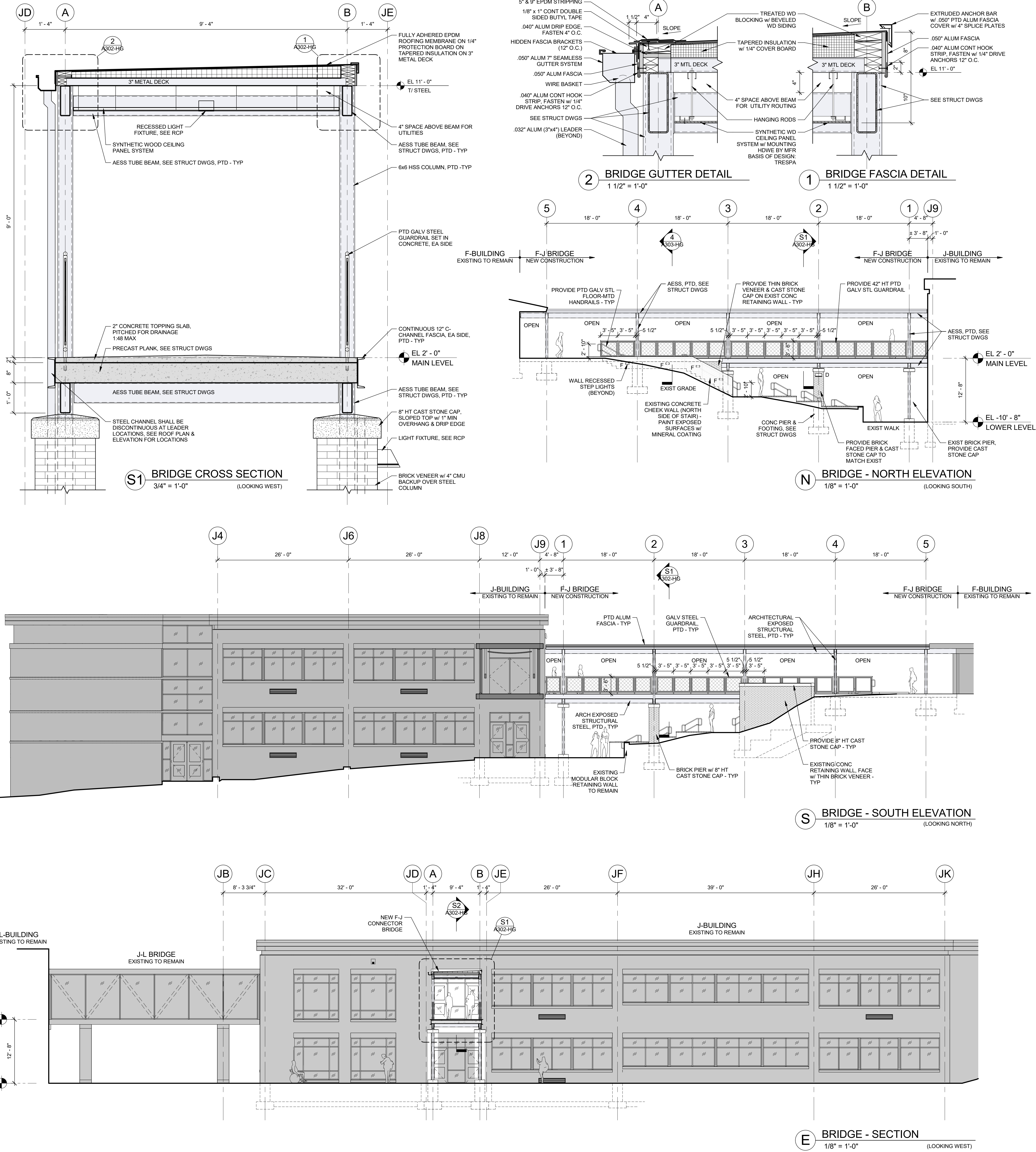
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4	09/16/2024	ISSUE FOR BID
3	10/27/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
No.	Date	Issue

HORACE GREELEY
F-J BRIDGE
ELEVATIONS &
SECTIONS

Job No.	2023-1028	Sheet Number
Date	09/31/2023	
Scale	AS NOTED	A302-HG
Drawn / Checked	-/-	



AS NOTED
Drawn / Checked - / -

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OB: 66-10-04-06-0-026-002
SB: 66-10-04-06-0-036-007

GENERAL NOTES

- 101 DENOTES DOOR NUMBER. SEE DOOR SCHEDULE. SEE SPECS FOR HARDWARE SETS & INFO
- DENOTES WALL TYPE & FIRE RATING WHERE SHOWN
- DENOTES WINDOW TYPE
- DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: FACE OF STRUCTURE OR FACE OF CMU
- FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYP) U.N.O.

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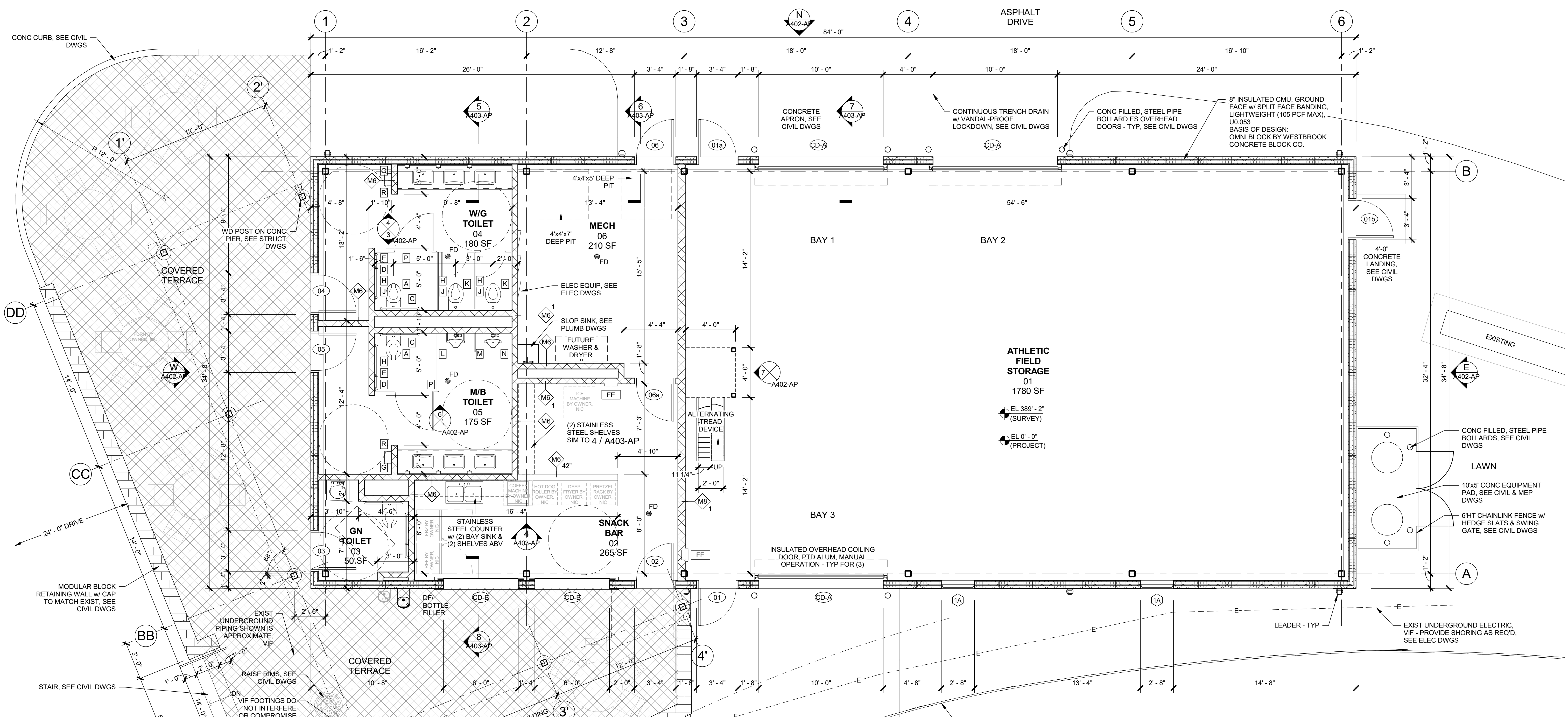
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No.	Date	Issue

Sheet Title

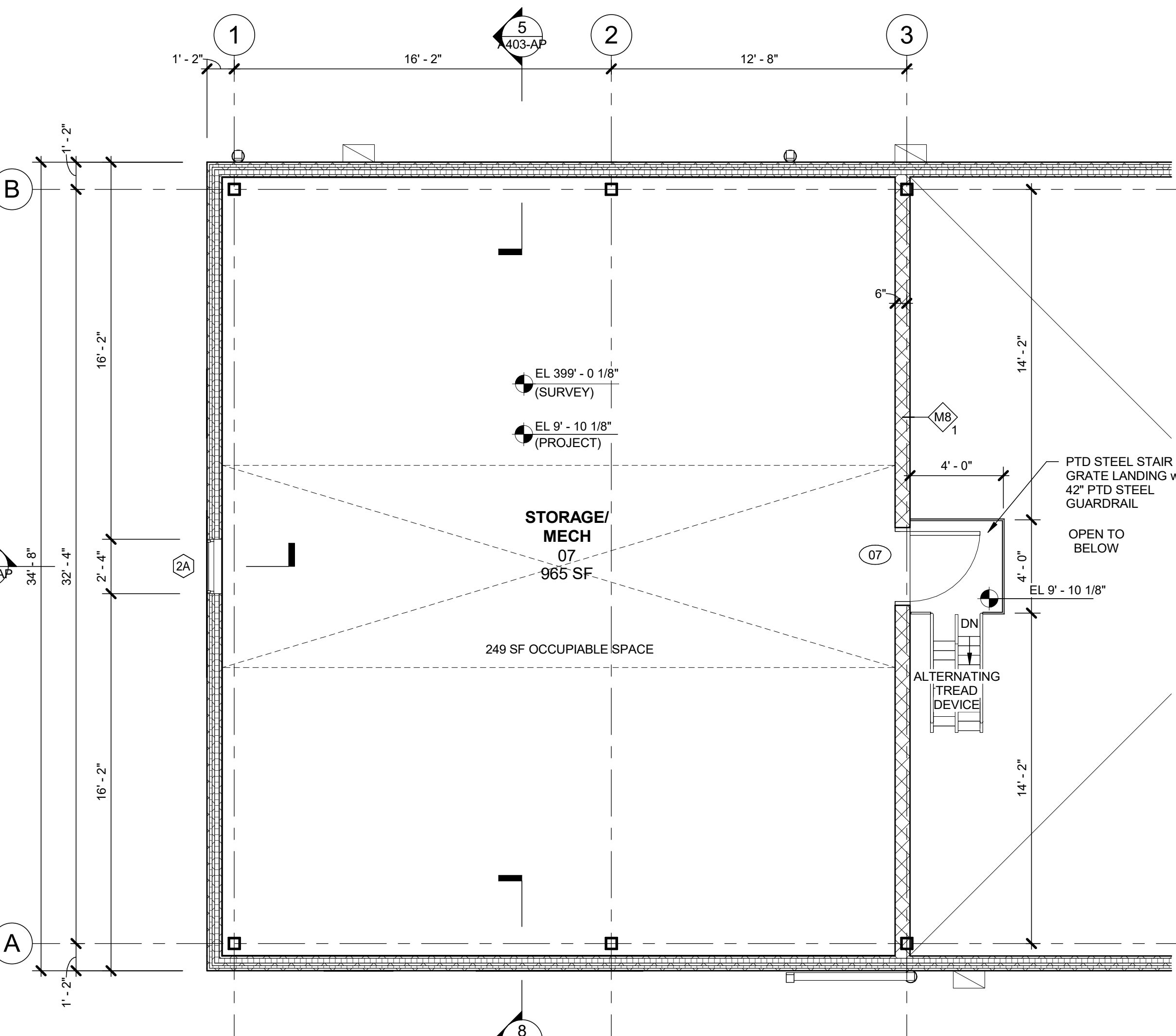
ATHLETIC
PAVILION PLANS

Job No. 2023-1028
Date 06/01/2023
Scale AS NOTED
Drawn / Checked -/-

Sheet Number
A401-AP



1 1st FLOOR PLAN
1/4" = 1'-0"



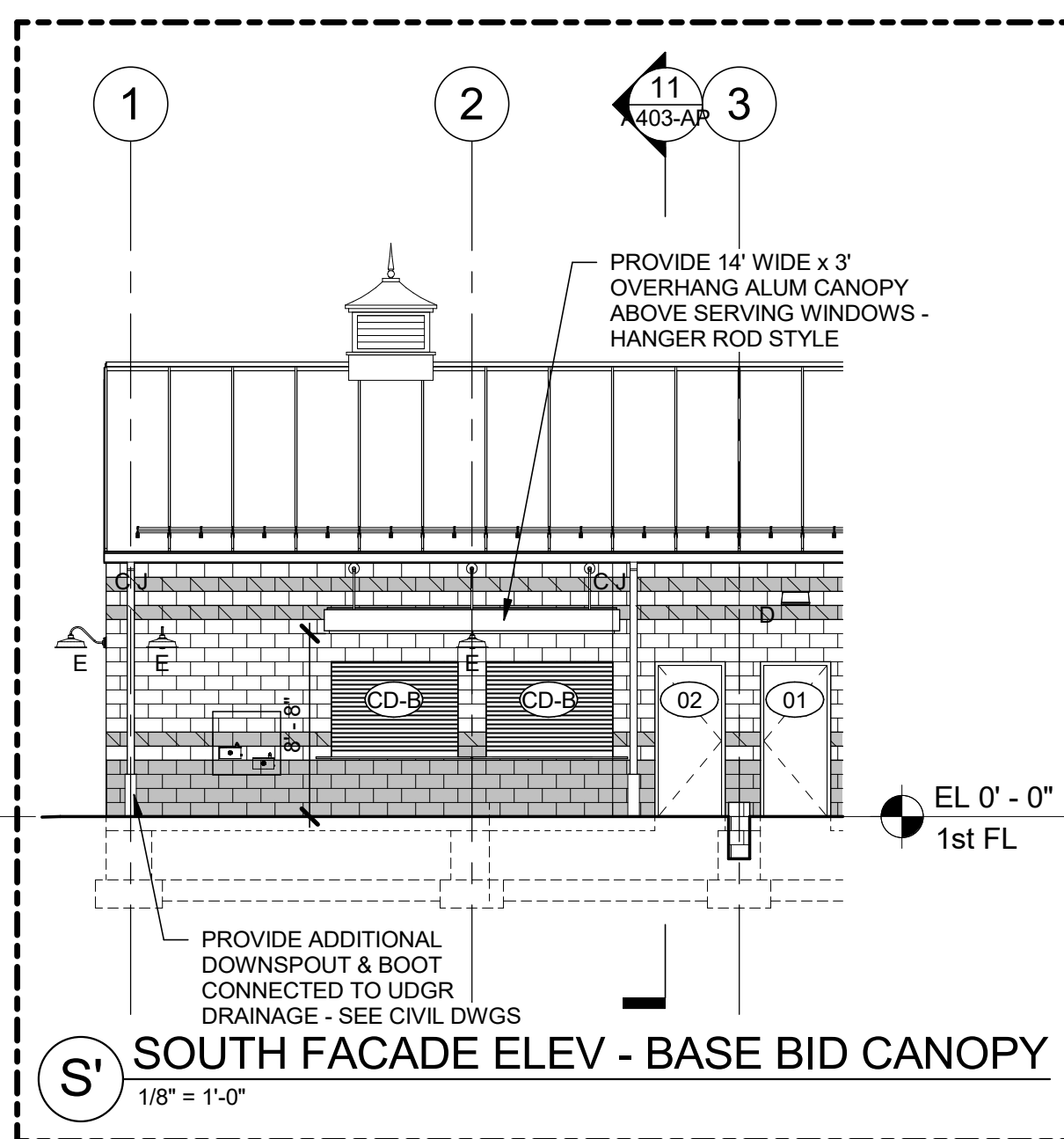
2 2nd FLOOR STORAGE / MECH MEZZANINE
1/4" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. EXTERIOR OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.) SHALL BE FULLY PERIMETER SEALED, INSULATED & CAULKED TO ADJACENT FINISH SURFACES BOTH INTERIOR & EXTERIOR OR AS DIRECTED BY MANUFACTURER, EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.

2. BELOW GRADE FOUNDATIONS SHOWN ARE APPROXIMATE & FOR REFERENCE ONLY. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

3. MASONRY SHELF / LEDGE SHOWN AT FOUNDATIONS ARE APPROXIMATE. INTENT IS TO SHOW WHERE HEIGHT MAY DIFFER FROM TYPICAL DETAILS SUCH THAT MASONRY REMAINS BELOW FINISHED GRADE, COORDINATE IN FIELD WITH FINAL GRADING.



ADD ALTERNATE (ATHLETIC PAVILION CANOPY):
PROVIDE POST-SUPPORTED CANOPY &
ASSOCIATED STRUCTURE & DRAINAGE AS
SHOWN IN ALL OTHER VIEWS.

BASE BID:
PROVIDE HANGER ROD STYLE CANOPY &
ASSOCIATED DRAINAGE AS SHOWN IN
S' / A402-AP

METAL ROOF, SEE
WALL SECTIONS

CONT ALUM GUTTER &
LEADER SYSTEM

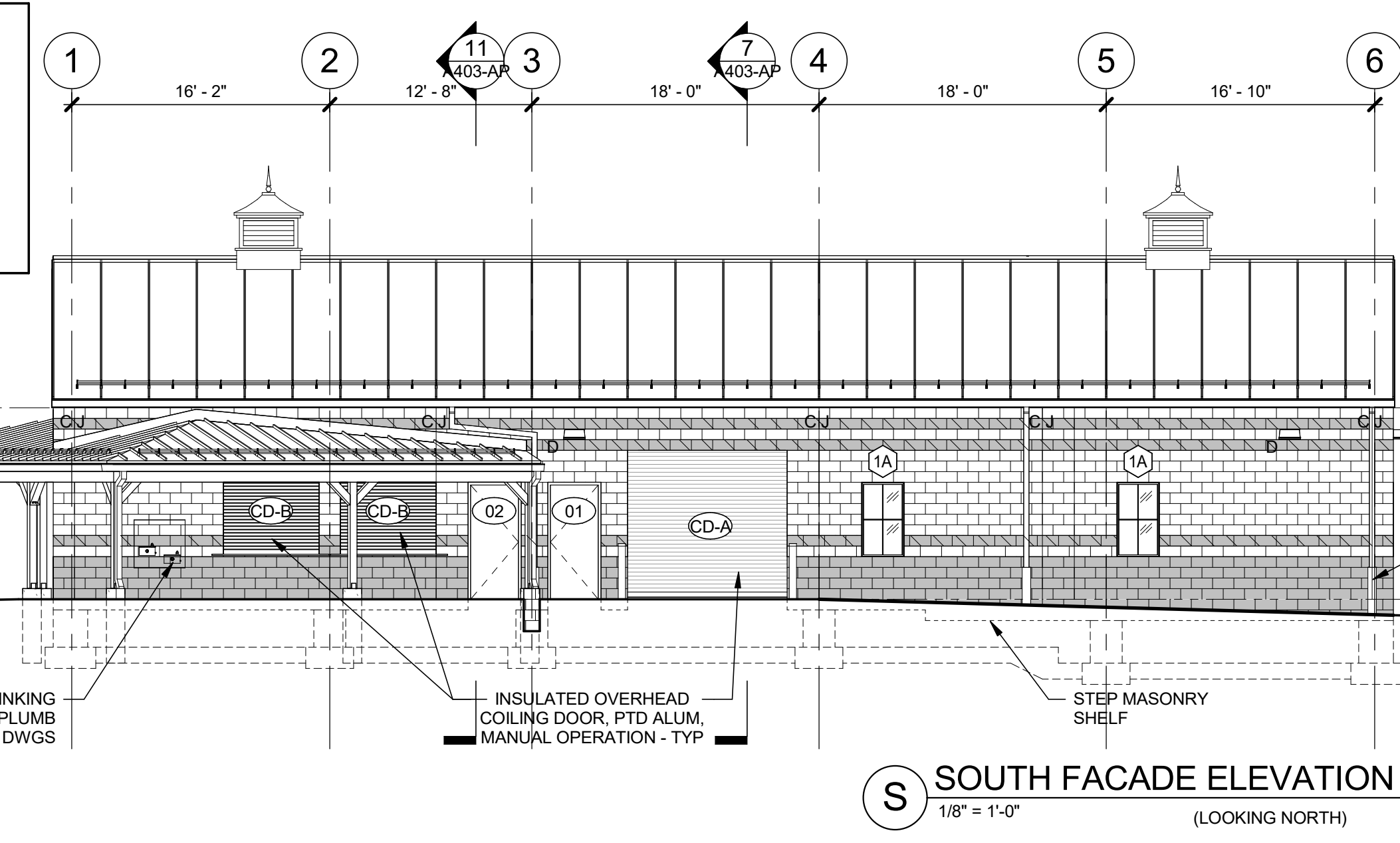
WD TIMBER POSTS &
BEAMS w/ MATCHING WD
BRACES & COUNTERSUNK
BOLTED CONNECTIONS,
STAIN & SEAL

12" DIA CONC PIER w/
CHAMFERED EDGE

BI-LEVEL DRINKING
FOUNTAIN, SEE PLUMB
DWGS

INSULATED OVERHEAD
COILING DOOR, PTD ALUM,
MANUAL OPERATION - TYP

STEP MASONRY
SHELF



EL 12' - 0"

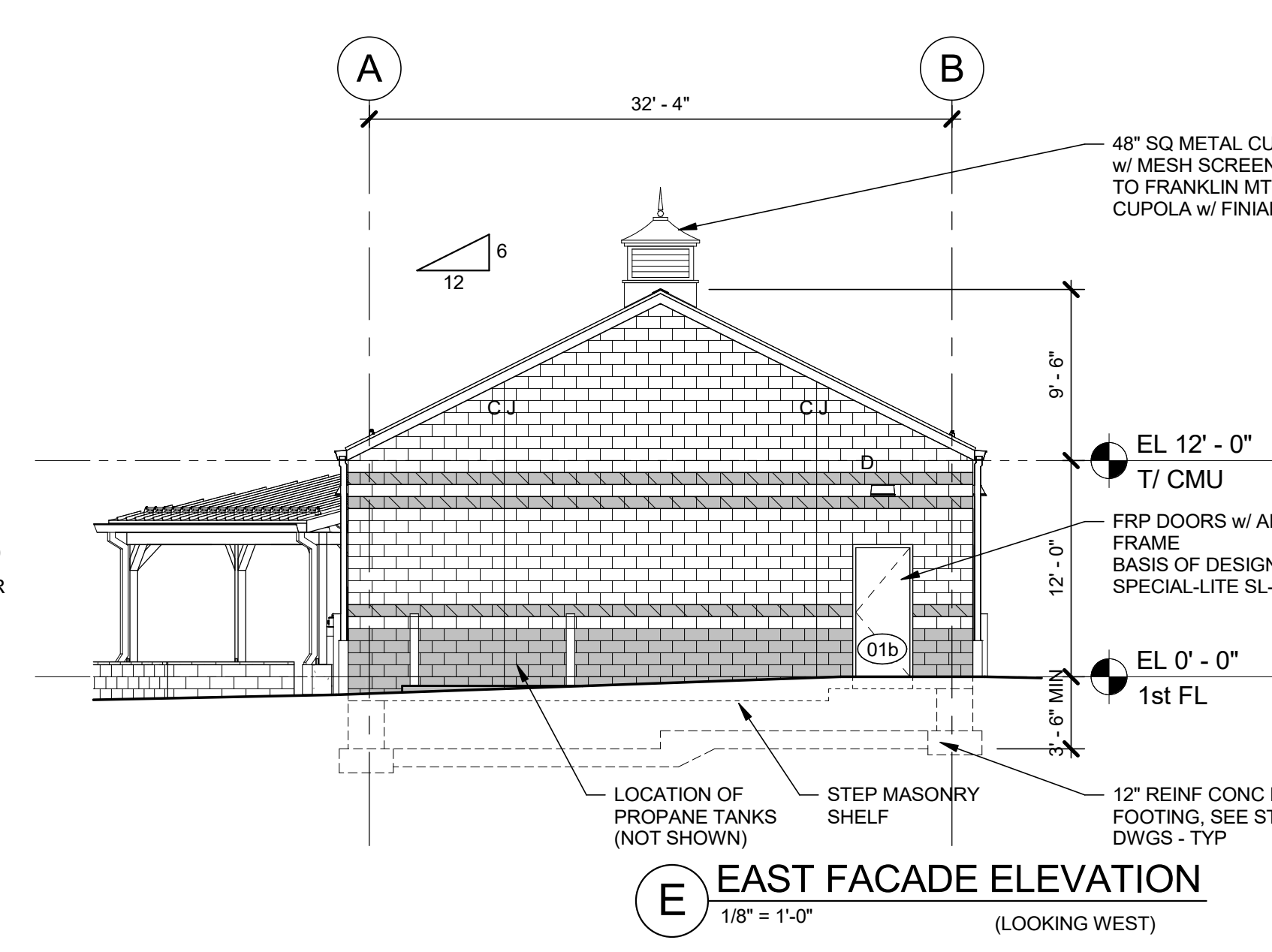
T/ CMU

EQUIPMENT PAD &
FENCE (NOT SHOWN)

IRON BOOT SIM TO JR
HOE O-SERIES - TYP
AT CMU

EL 0' - 0"

1st FL



48" SQ METAL CUPOLA
w/ MESH SCREEN, SIM
TO FRANKLIN MTL
CUPOLA w/ FINIAL

EL 12' - 0"

T/ CMU

FRP DOORS w/ ALUM
FRAME
BASIS OF DESIGN:
SPECIAL-LITE SL-20

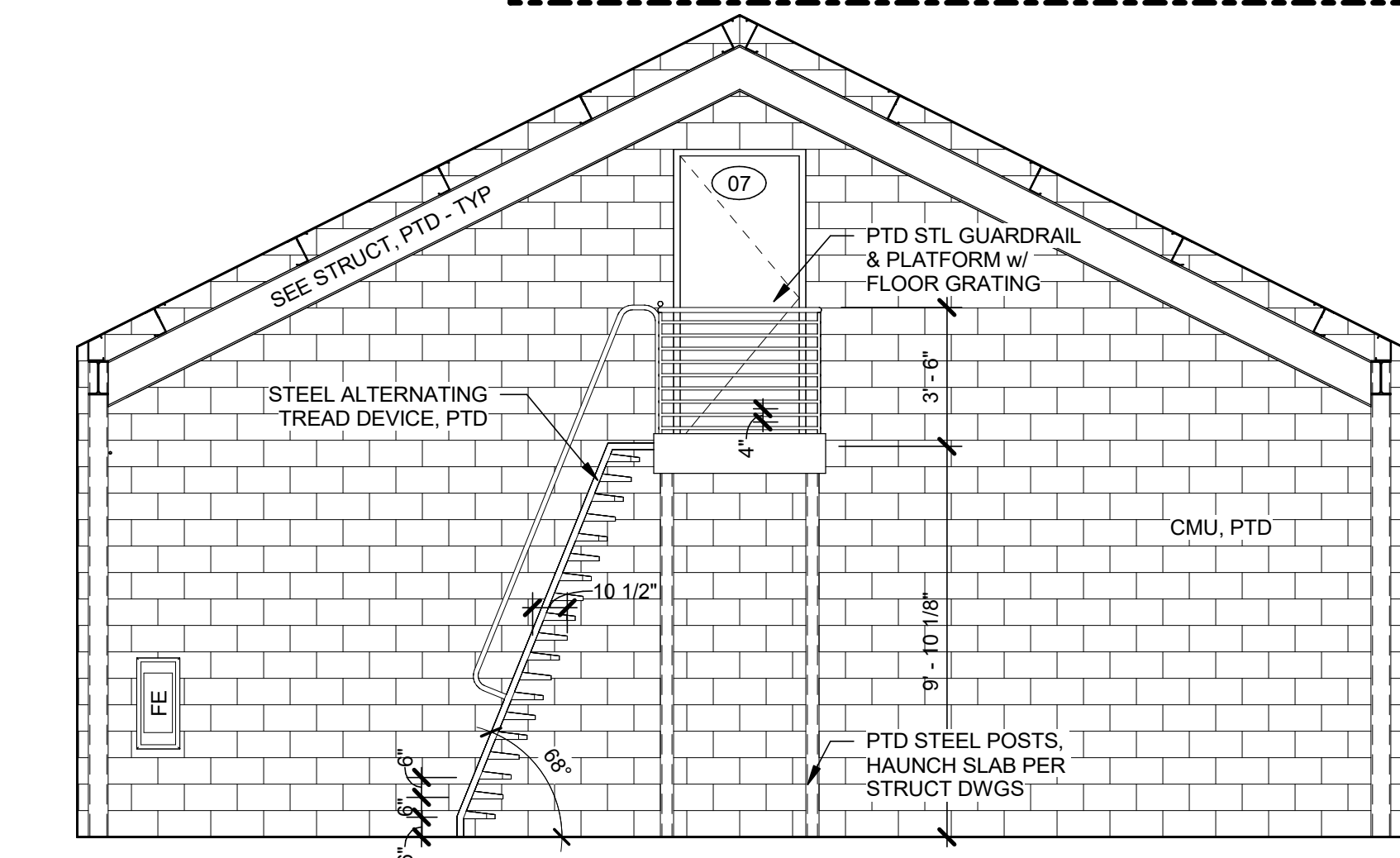
EL 0' - 0"

1st FL

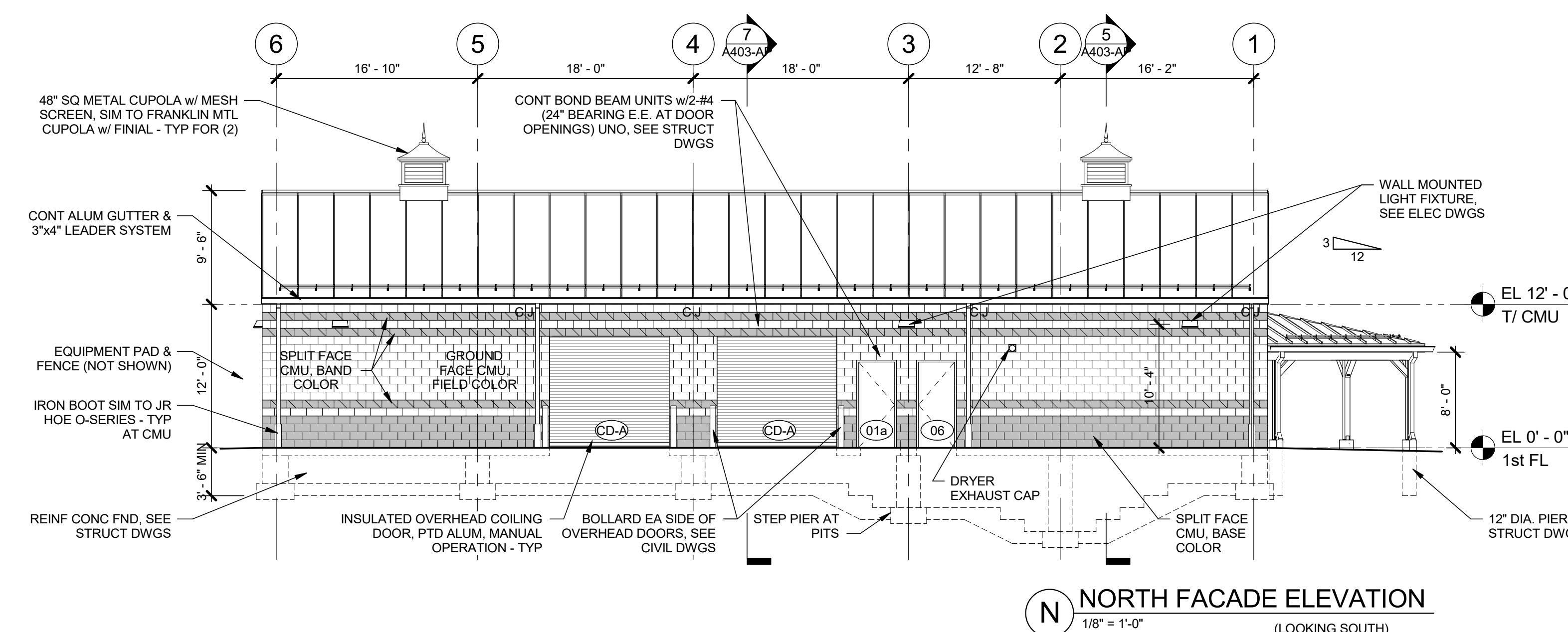
12" REINF CONC FDN &
FOOTING, SEE STRUCT
DWGS - TYP

STEP MASONRY
SHELF

LOCATION OF
PROPANE TANKS
(NOT SHOWN)



7 ATHLETIC FIELD STORAGE WEST ELEVATION
1/4" = 1'-0"



EL 12' - 0"

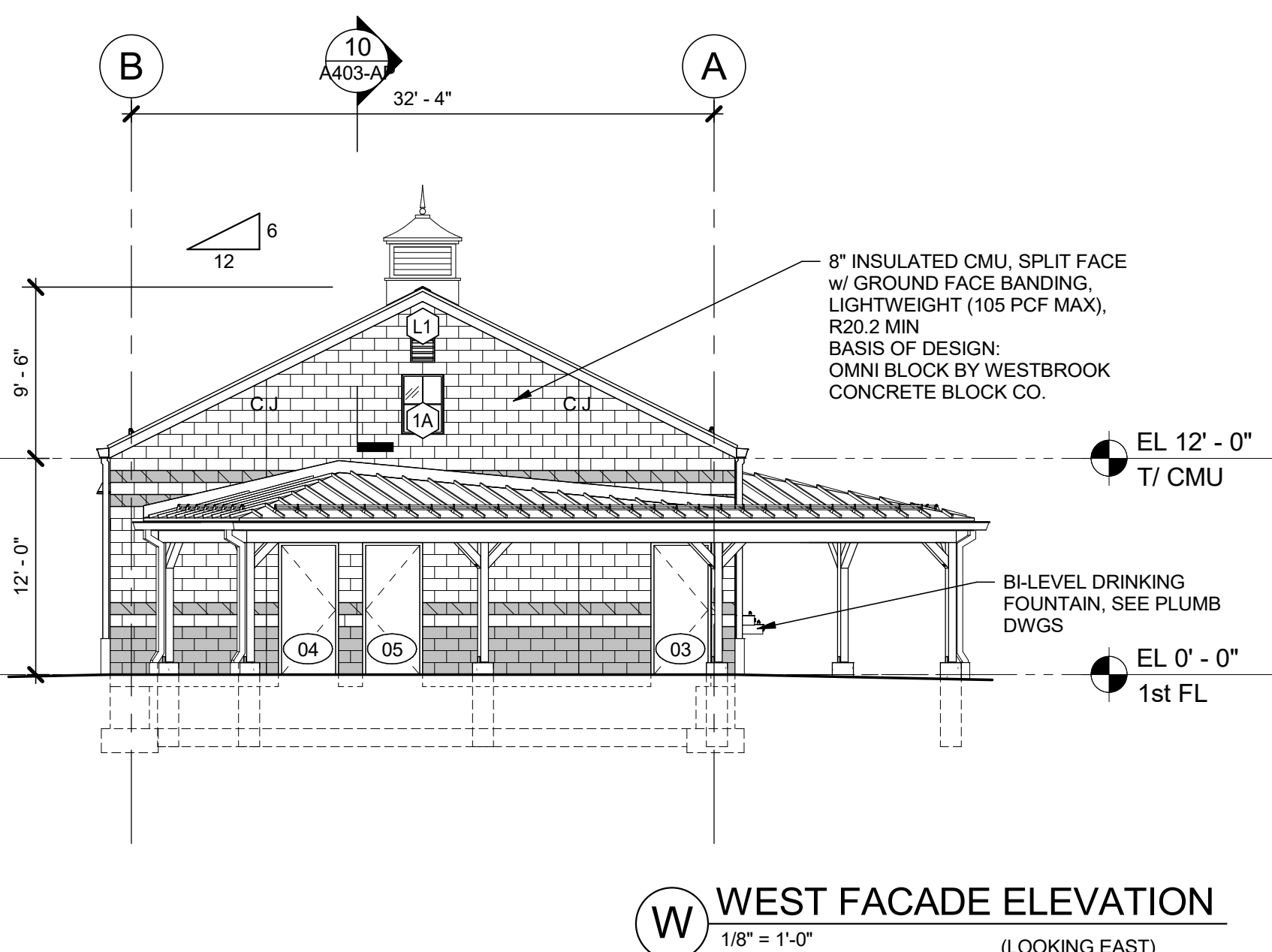
T/ CMU

EQUIPMENT PAD &
FENCE (NOT SHOWN)

IRON BOOT SIM TO JR
HOE O-SERIES - TYP
AT CMU

EL 0' - 0"

1st FL



5" INSULATED CMU, SPLIT FACE
w/ GROUND FACE BANDING,
LIGHTWEIGHT (105 PCF MAX),
R20.2 MIN
BASIS OF DESIGN:
OMNI BLOCK BY WESTBROOK
CONCRETE BLOCK CO.

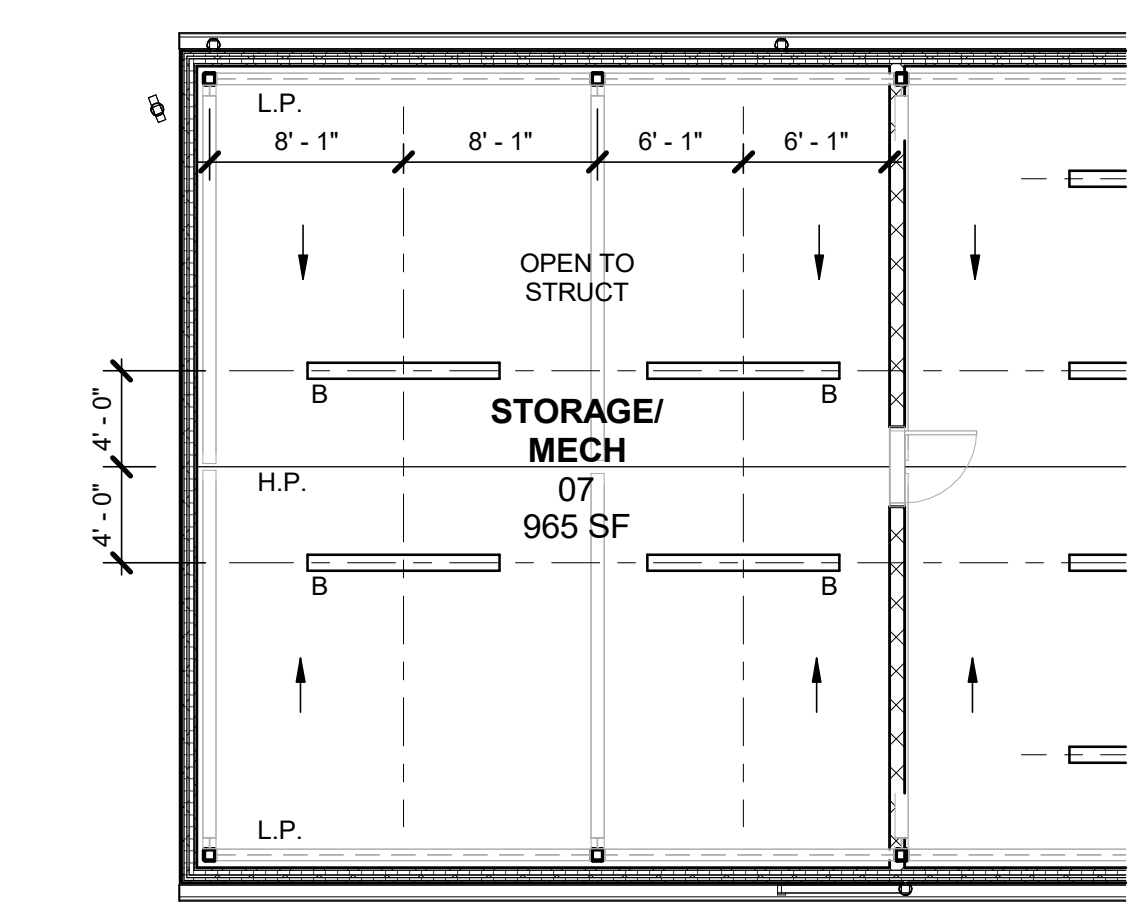
EL 12' - 0"

T/ CMU

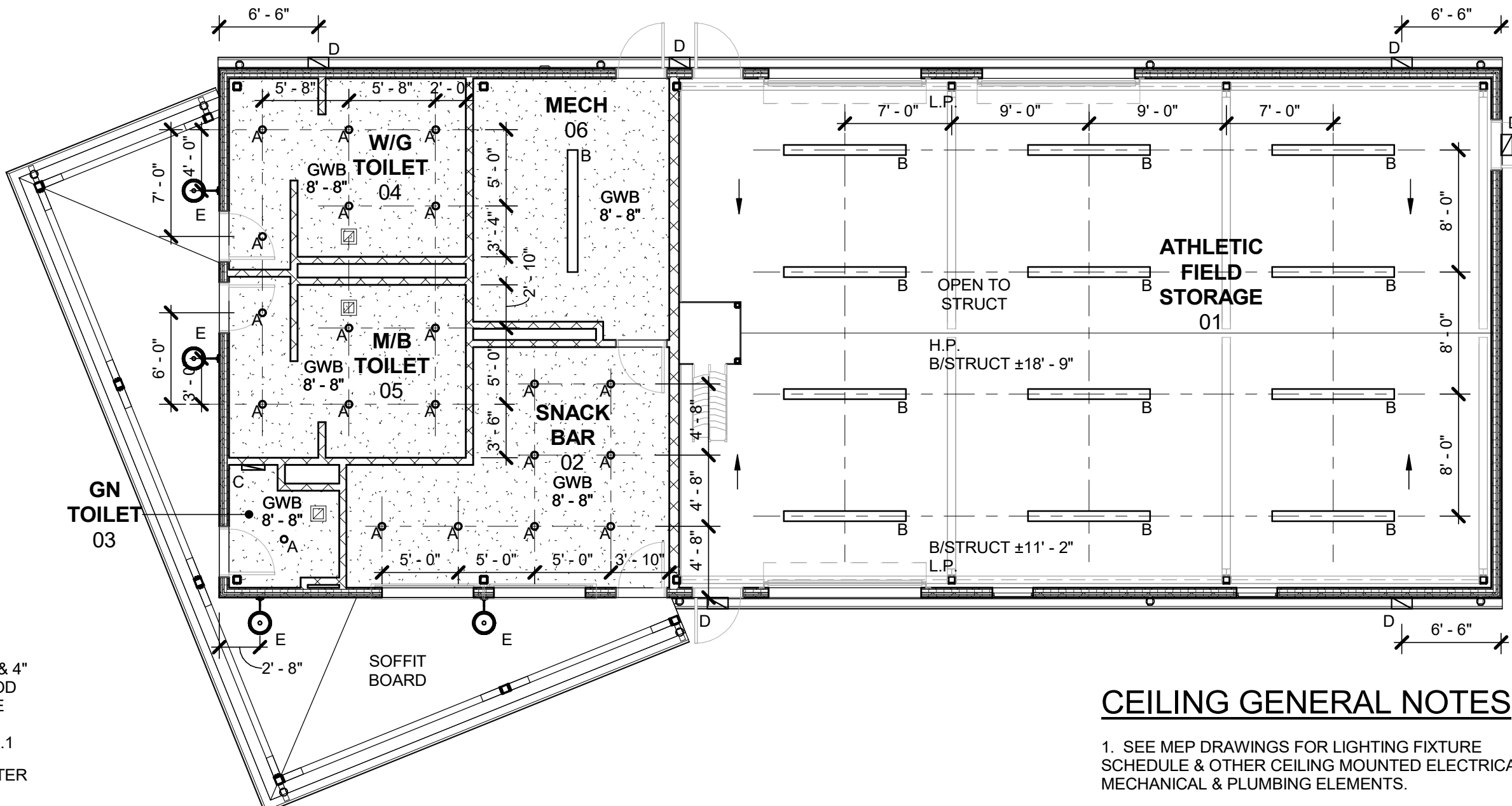
BI-LEVEL DRINKING
FOUNTAIN, SEE PLUMB
DWGS

EL 0' - 0"

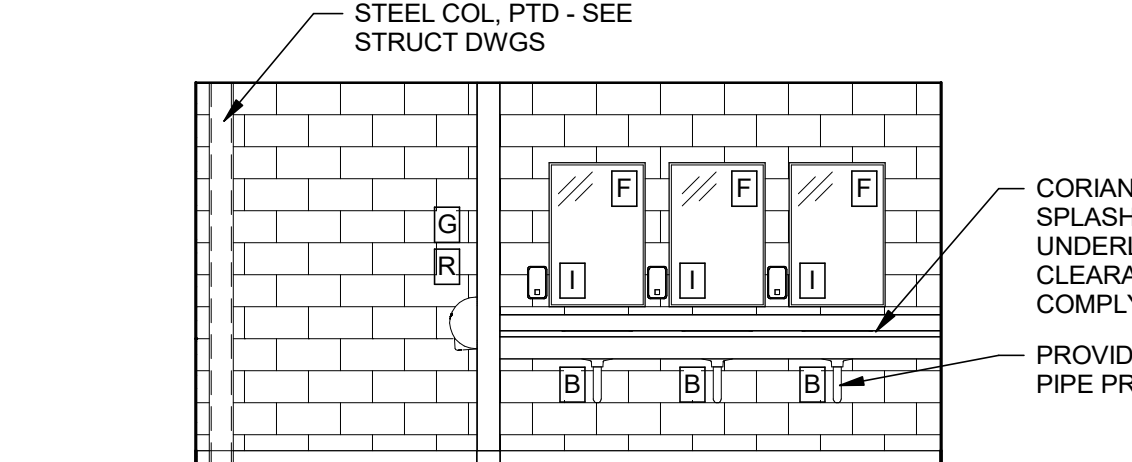
1st FL



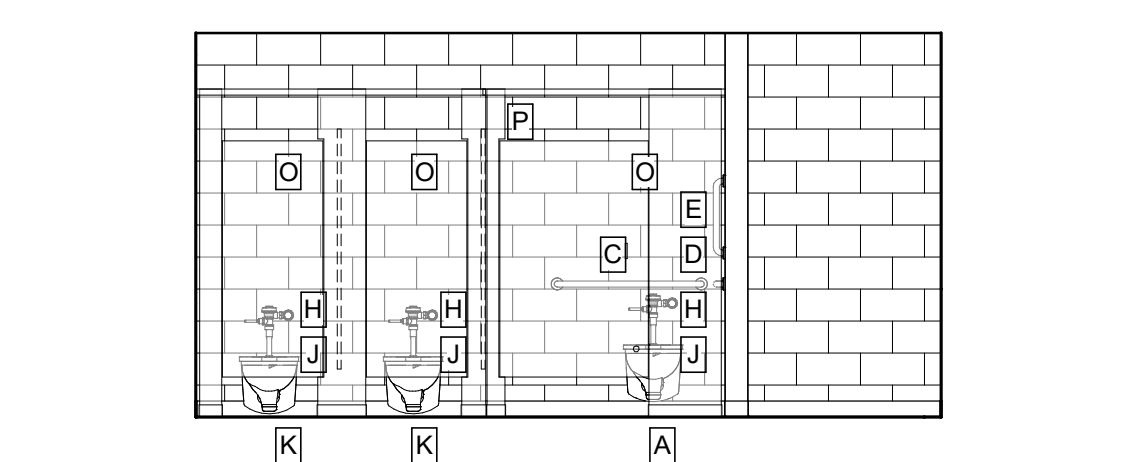
1 STORAGE / MECH CEILING PLAN
1/8" = 1'-0"



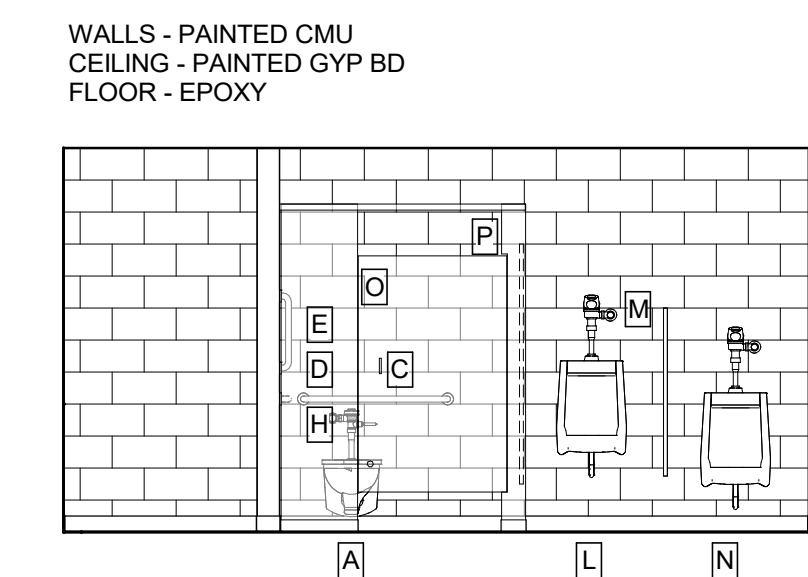
2 CEILING PLAN
1/8" = 1'-0"



4 W/G TOILET ROOM - NORTH ELEVATION
1/4" = 1'-0"



3 W/G TOILET ROOM - SOUTH ELEVATION
1/4" = 1'-0"



6 M/B TOILET ROOM - NORTH ELEVATION
1/4" = 1'-0"

CEILING GENERAL NOTES

1. SEE MEP DRAWINGS FOR LIGHTING FIXTURE
SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL,
MECHANICAL & PLUMBING ELEMENTS.

2. SEE FINISH SCHEDULE & SPECIFICATIONS FOR
CEILING MATERIALS & FINISHES.

3. CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE
PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.

4. CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE
LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

5. CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT
DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS,
ETC. MOUNTED IN GWB OR SPECIALTY CEILINGS/
WALLS WITH ARCHITECT PRIOR TO INSTALLATION.

NOTE:
ACCESSORIES G, H, I & J ARE
SUPPLIED BY OWNER, INSTALLED BY
GC.

A ADA WALL- HUNG TOILET

B LAVATORY

C REAR TOILET GRAB BAR

D SIDE TOILET GRAB BAR

E SIDE TOILET VERTICAL GRAB BAR

F WALL MIRROR w/ FRAME

G RECESSED TOWEL DISPENSER /
WASTE RECEPTACLE

H TOILET PAPER ROLL DISPENSER

I LIQUID SOAP DISPENSER

J SANITARY DISPOSAL

K STANDARD WALL-HUNG TOILET

L STANDARD WALL-HUNG URINAL

M URINAL SCREEN

N ADA/CHILD WALL-HUNG URINAL

O COAT HOOK

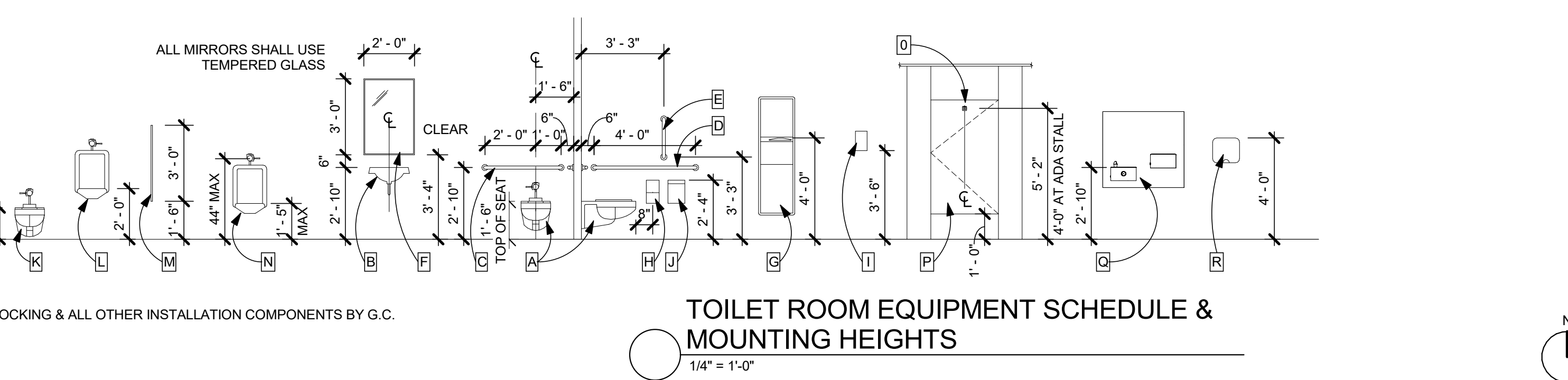
P FLOOR MOUNTED OVERHEAD
BRACED TOILET PARTITION

Q WALL-HUNG BI-LEVEL DRINKING
FOUNTAIN

R HAND DRYER

ADD ALTERNATE (ATHLETIC PAVILION CANOPY):
POST-SUPPORTED CANOPY & ASSOCIATED
STRUCTURE & DRAINAGE AS SHOWN.

BASE BID: HANGER ROD STYLE CANOPY, SEE
S' / A402-AP



5 TOILET ROOM EQUIPMENT SCHEDULE &
MOUNTING HEIGHTS
1/4" = 1'-0"

DISTRICT-WIDE CAPITAL IMPROVEMENTS NEW CONSTRUCTION & ATHLETIC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
AP: 66-10-04-06-7-052-001
CS: 66-10-04-06-7-027-002
OB: 66-10-04-06-0-026-002
SB: 66-10-04-06-0-036-007

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OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE
WRITTEN PERMISSION OF KG+D.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED
DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE
JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND
CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL
BEFORE PROCEEDING WITH FABRICATION.

ALL INFORMATION BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT,
WHETHER BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT,
IS AFFIRMED HERETO AS A VIOLATION OF TITLE 16, SECTION 160.5 (b) OF NEW YORK STATE LAW
AND PENALTY THEREUNDER.

Professional Seal

No.	Date	Issue
4	09/16/2024	ISSUE FOR BID
3	10/27/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/01/2023	SCHEMATIC DESIGN
No.	Date	Issue
Sheet Title		

ATHLETIC PAVILION PLANS & ELEVATIONS

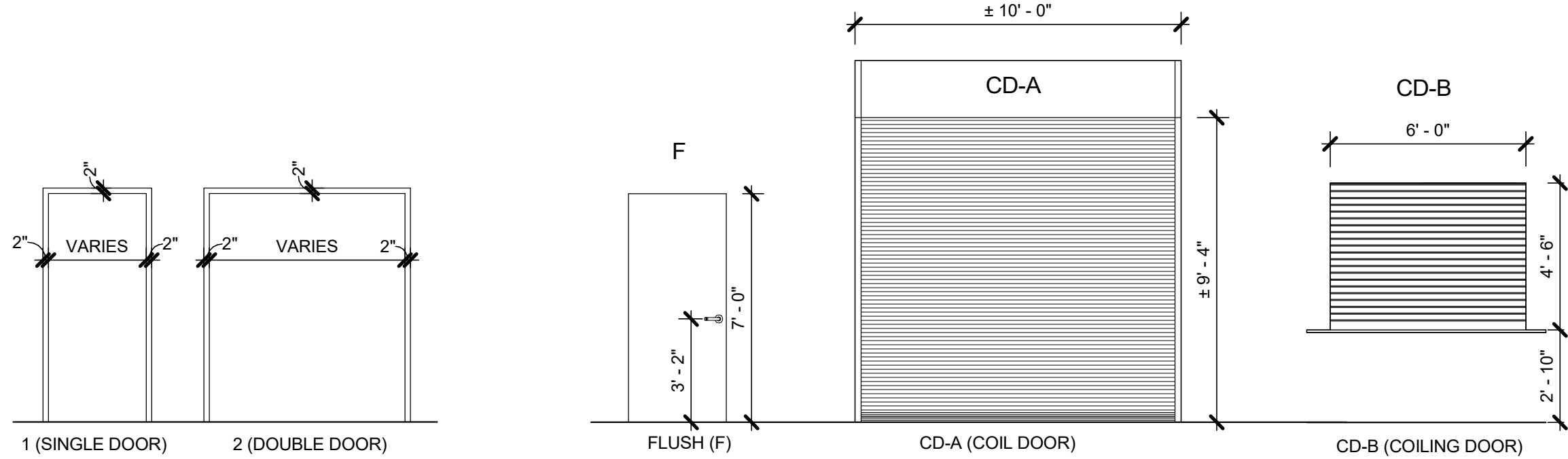
Job No.	Sheet Number
2023-1028	
Date	
06/01/2023	
Scale	
AS NOTED	
Drawn / Checked	
-/-	

A402-AP

DOOR SCHEDULE														
MARK	#	SIZE		ELEV	DOOR		FRAME		FIRE RATING	SADDLE	HDWE SET			COMMENTS
		WT	HT		MAT	FIN	MAT	FIN						
01	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	SE		EXT	
01a	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	SE		EXT	
01b	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	SE		EXT	
02	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	SE		EXT	
03	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	TS		EXT	
04	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	TM		EXT	
05	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	TM		EXT	
06	1	3'-0"	7'-2"	F	FRP	FF	AL	FF	-	AL	SE		EXT	
06a	1	3'-0"	7'-2"	F	HM	P	HM	P	45	AL	SE		INT	
07	1	3'-0"	7'-2"	F	HM	P	HM	P	-	AL	SE		INT	

NOTES:
 1) DOORS, FRAMES & HARDWARE SHALL MATCH SIMILAR TO EXISTING COMPONENTS.
 2) HARDWARE SHALL BE COMPATIBLE WITH OWNER'S SECURITY SYSTEM. COORDINATE W/ OWNER'S SECURITY VENDOR.
 3) SEE SPEC SECTION 087101 FOR HARDWARE SET INFORMATION & TYPICAL HARDWARE NOTES.
 SE: SECURE HARDWARE SET
 TM: MULTI-USER TOILET
 TS: SINGLE-USER TOILET

ABBREVIATIONS: AL-ALUMINUM; EX-EXISTING; FF-FACTORY FINISH; FRP-FIBERGLASS REINFORCED POLYMER; HDWE-HARDWARE SET; HM-HOLLOW METAL; P-PAIN;
 WD-WOOD



2 FRAME TYPES
 1/4" = 1'-0"

1 DOOR TYPES
 1/4" = 1'-0"

FINISH SCHEDULE																	
ROOM #	ROOM NAME	FLOOR		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING			COMMENTS		
		FIN	BASE	CMU	P	FIN	CMU	P	FIN	CMU	P	FIN	CMU	P		MTL	FF
01	ATHLETIC FIELD STORAGE	SEAL	-	CMU	P	CMU	P	CMU	P	CMU	P	CMU	P	MTL	FF		PAINT EXPOSED STEEL
02	SNACK BAR	EPO	-	CMU	P	CMU	P	CMU	P	CMU	P	GWB	P	8'-8"			PAINT EXPOSED STEEL
03	GN TOILET	EPO	-	CMU	P	CMU	P	CMU	P	CMU	P	GWB	P	8'-8"			PAINT EXPOSED STEEL
04	W/IG TOILET	EPO	-	CMU	P	CMU	P	CMU	P	CMU	P	GWB	P	8'-8"			PAINT EXPOSED STEEL
05	MB TOILET	EPO	-	CMU	P	CMU	P	CMU	P	CMU	P	GWB	P	8'-8"			PAINT EXPOSED STEEL
06	MECH	SEAL	-	CMU	P	CMU	P	CMU	P	CMU	P	GWB	P	8'-8"			PAINT EXPOSED STEEL
07	STORAGE/MECH	-	-	CMU	P	CMU	P	CMU	P	CMU	P	CMU	P	MTL	FF		PAINT EXPOSED STEEL

NOTE: NORTH, EAST, SOUTH & WEST IN FINISH SCHEDULE MATCH SHEET NORTH.
 ABBREVIATIONS: EPO-EPOXY; EX-EXISTING; GWB-GYPSUM WALL BOARD; P-PAIN; RB-RUBBER BASE; RF-RUBBER TILE; VCT-VINYL COMPOSITE TILE

DOOR NOTES

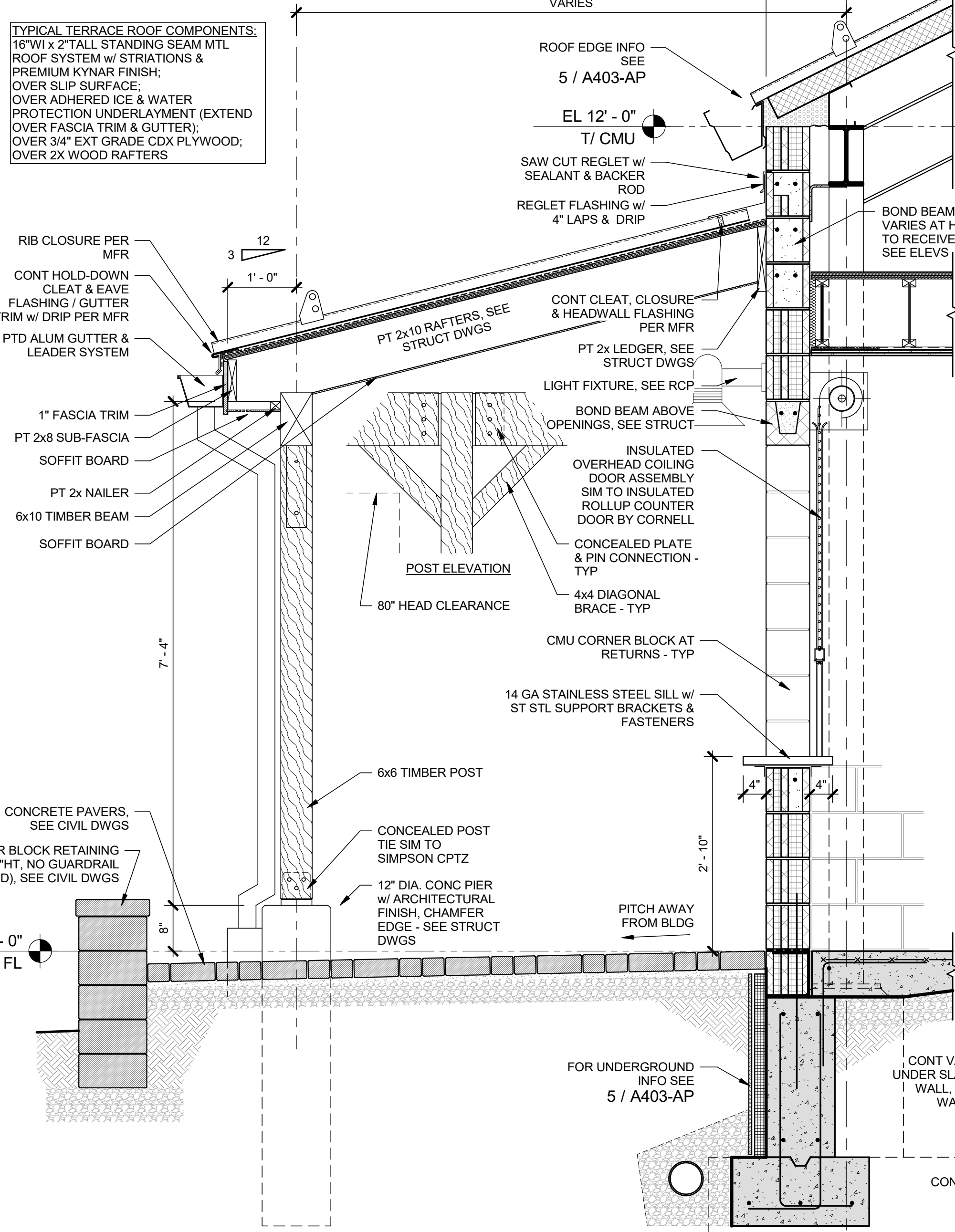
- DOORS, FRAMES, SIDELIGHTS, TRANSOMS & ASSOCIATED GLAZING SHALL MEET SCHEDULED FIRE RATINGS.
- EXTERIOR DOOR SYSTEMS SHALL BE FULLY PERIMETER CAULKED TO ADJACENT FINISHED SURFACES, BOTH INTERIOR & EXTERIOR EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.
- DOORS SHALL HAVE SUITABLE BLOCKING FOR LEVERS OR ARCHITECTURAL PULLS.
- COORDINATE KEYING WITH OWNER PRIOR TO ORDERING HARDWARE.
- ALL INTERIOR DOOR FRAMES SHALL BE FULLY WELDED TYPE. KNOCKDOWN (KD) FRAMES SHALL NOT BE USED.
- VERIFY HOLD-OPENS & STOPS W/ ADJACENT CONDITIONS.
- PROVIDE KICK PLATE ON PUSH SIDE OF ALL DOORS. PROVIDE MOP PLATES ON PULL SIDE OF ALL INTERIOR DOORS. EXCEPTION: EXTERIOR FACE OF DOOR
- PROVIDE (3) SILENCERS ON ALL STRIKE JAMBS.
- PROVIDE APPROPRIATE WALL OR OVERHEAD STOP FOR EACH DOOR LOCATION. FLOOR STOPS SHALL NOT BE USED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.
- ALL HARDWARE SHALL BE FULL MORTISE DESIGN UNLESS NOTED OTHERWISE.
- COORDINATE ELECTRICAL REQUIREMENTS FOR HARDWARE & ADDITIONAL EQUIPMENT (BURGLAR ALARM, ETC.) BY OWNER.

LOUVER NOTES

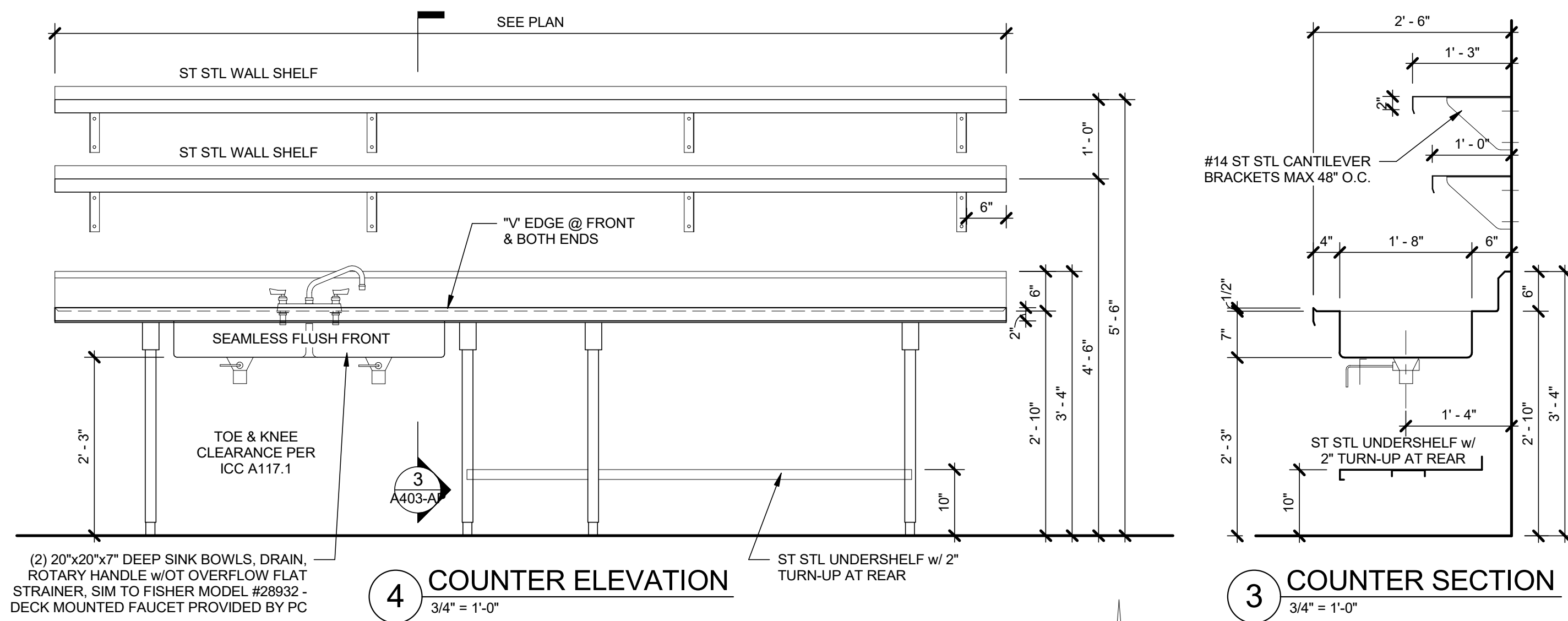
- EXTERIOR LOUVER SHALL BE MIN 4" DEEP ALUM HORIZONTAL BLADE, STORM-PROOF, DRAINABLE, w/ 50% FREE AREA (MIN) IN PREMIUM (KYNAR) METALLIC (OR CUSTOM) COLOR OR SELECTED BY ARCHITECT. W/ BIRD SCREEN (SIM TO RUSKIN ELF3750X)
- G.C. SHALL PROVIDE LOUVERS & SHALL COORDINATE FREE AREA REQ'D W/ H.C.
- H.C. SHALL BLANK-OFF W/ BLACK PTD SHEETMETAL & INSULATE ALL UNUSED PORTIONS OF LOUVERS

PARTITION NOTES

- WALL ASSEMBLIES SHALL BE FULL HEIGHT FROM FLOOR TO UNDERSIDE OF FLOOR SLAB, DECK OR ROOF ABOVE, U.N.O.
- SEE SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.
- ALL GYPSUM WALL BOARD PRODUCTS SHALL BE TYPE X, ABUSE AND MOLD-RESISTANT, U.N.O.
- REFER TO SPECIFICATIONS & MANUFACTURER RECOMMENDATIONS FOR ENVIRONMENTAL CONDITIONS REQUIRED FOR STORAGE & INSTALLATION OF GYPSUM PARTITION BOARD PRODUCTS. PRODUCTS IMPROPERLY STORED OR INSTALLED WITHOUT INDOOR ENVIRONMENTAL CONTROL MAY BE REJECTED.
- ASSEMBLE ALL RATED PARTITION TYPES PER UNDERWRITERS' LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.
- COORDINATE FRAMING SYSTEMS, SUSPENSION SYSTEMS & AUXILIARY MATERIALS/FASTENERS W/ SPECIFICATIONS & UNDERWRITERS' LABORATORY REQUIREMENTS.

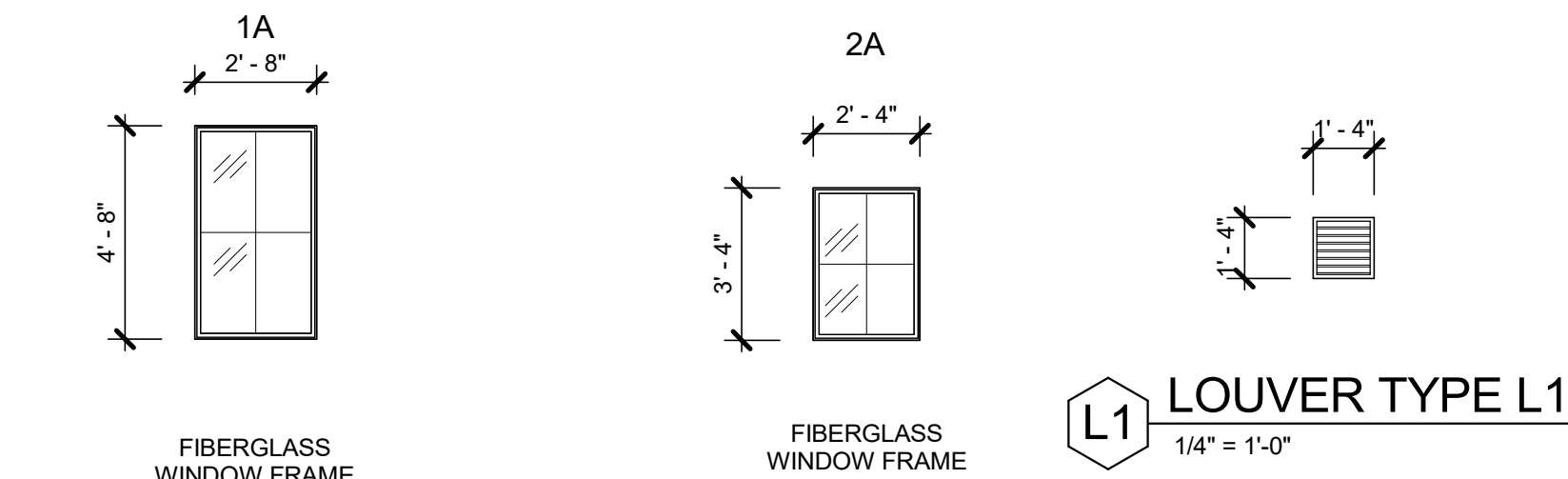


8 WALL SECTION AT TERRACE & COUNTER
 3/4" = 1'-0"



4 COUNTER ELEVATION
 3/4" = 1'-0"

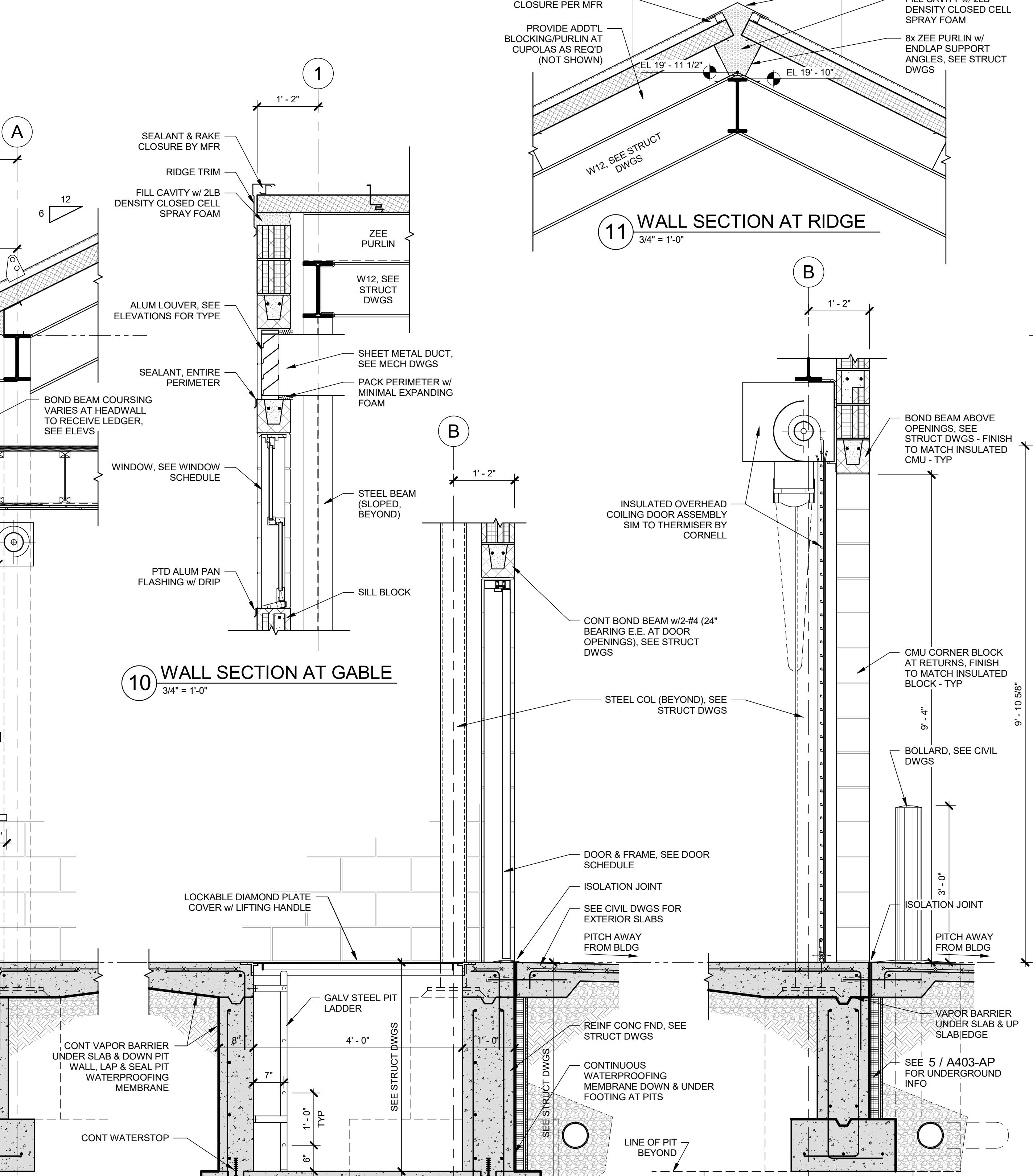
3 COUNTER SECTION
 3/4" = 1'-0"



L1 LOUVER TYPE L1
 1/4" = 1'-0"

1A WINDOW TYPE 1A
 1/4" = 1'-0"

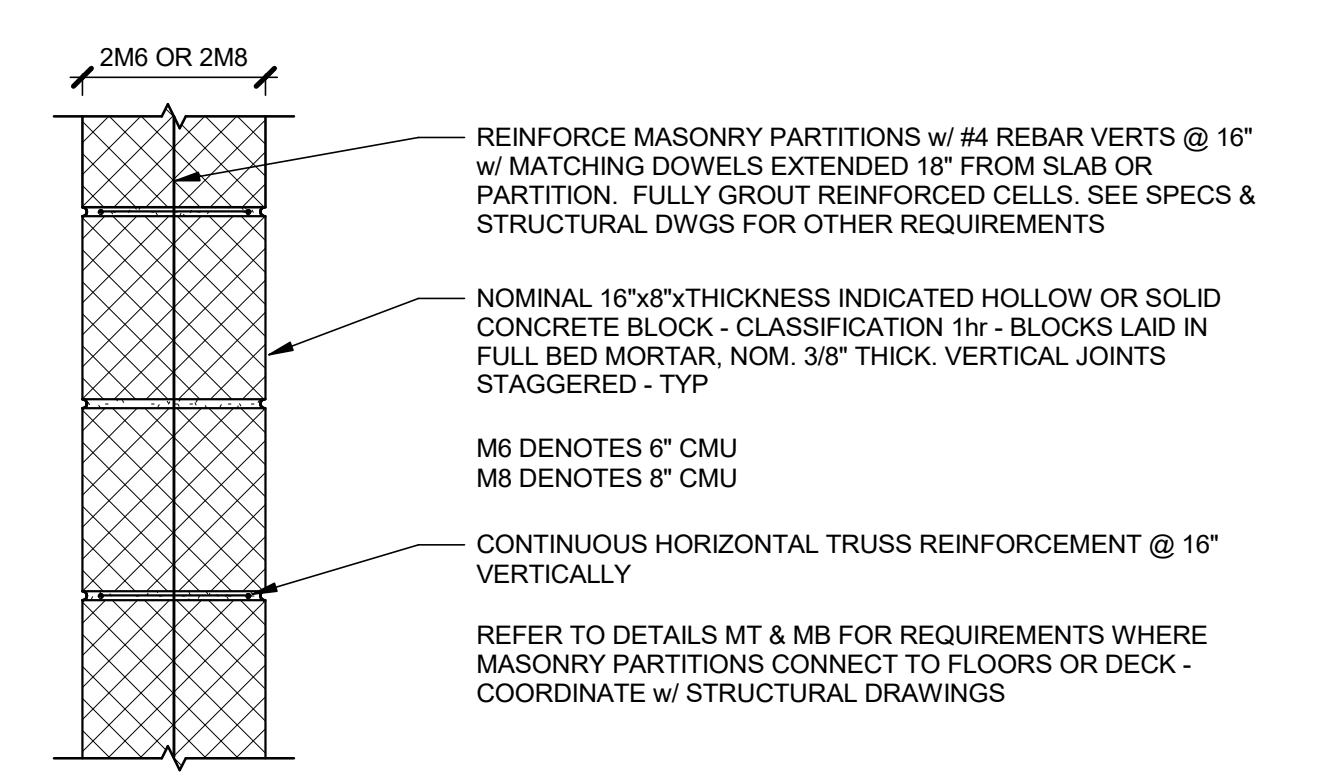
2A WINDOW TYPE 2A
 1/4" = 1'-0"



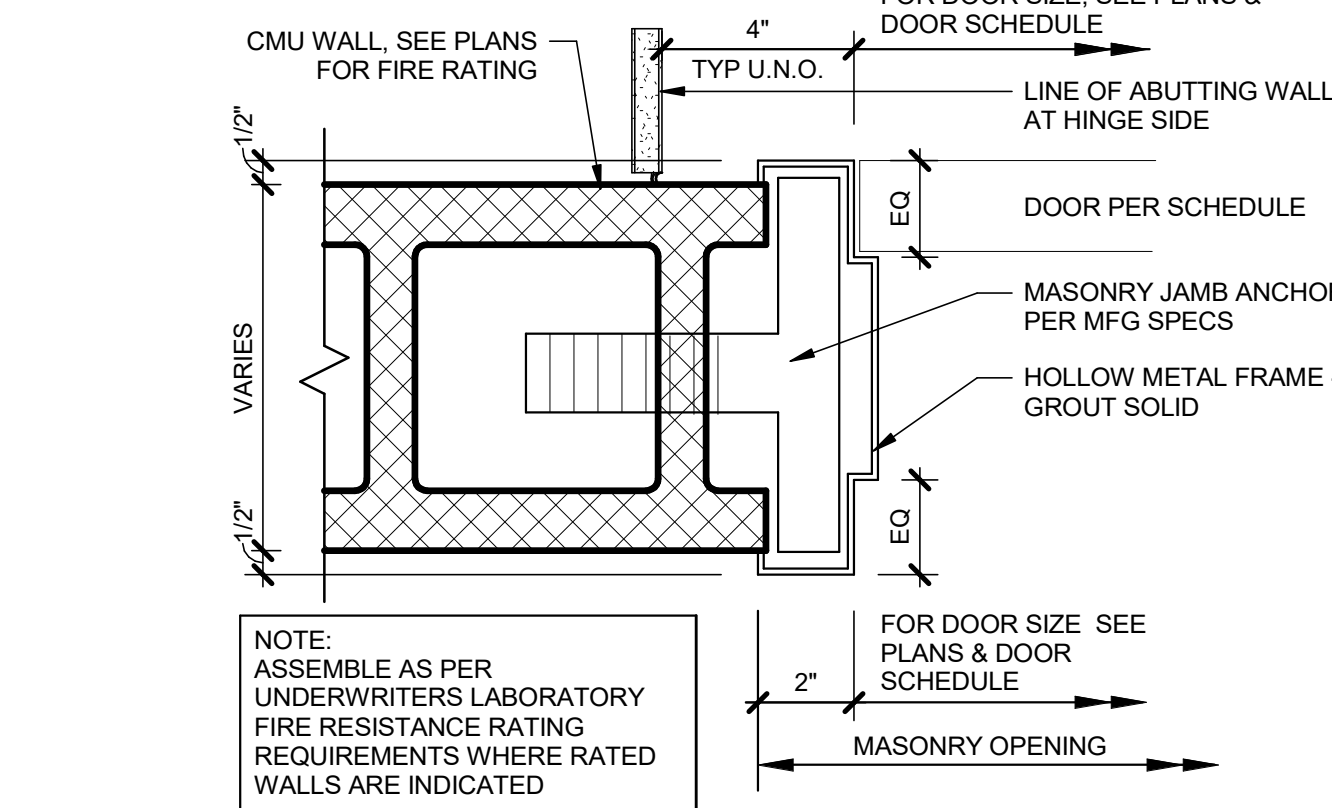
10 WALL SECTION AT GABLE
 3/4" = 1'-0"

6 WALL SECTION AT PIT
 3/4" = 1'-0"

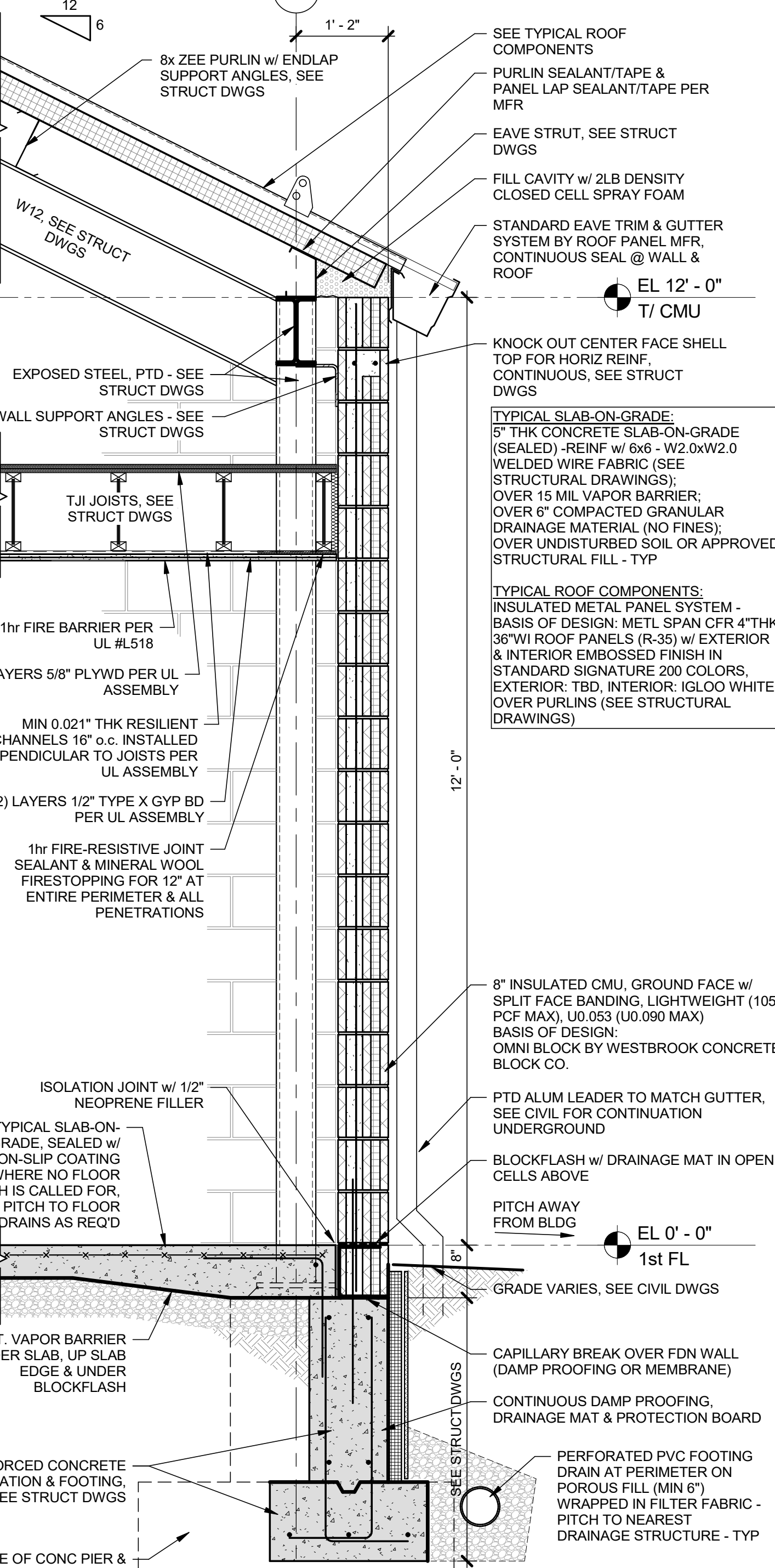
7 WALL SECTION AT OVERHEAD DOORS
 3/4" = 1'-0"



M- 1hr FIRE RESISTIVE CMU PARTITION - UL #U906



B HM DOOR JAMB AT CMU WALL
 3" = 1'-0"



5 WALL SECTION
 3/4" = 1'-0"

DISTRICT-WIDE
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Professional Seal

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3	10/27/2023	ISSUE FOR PRICING - 90% CD
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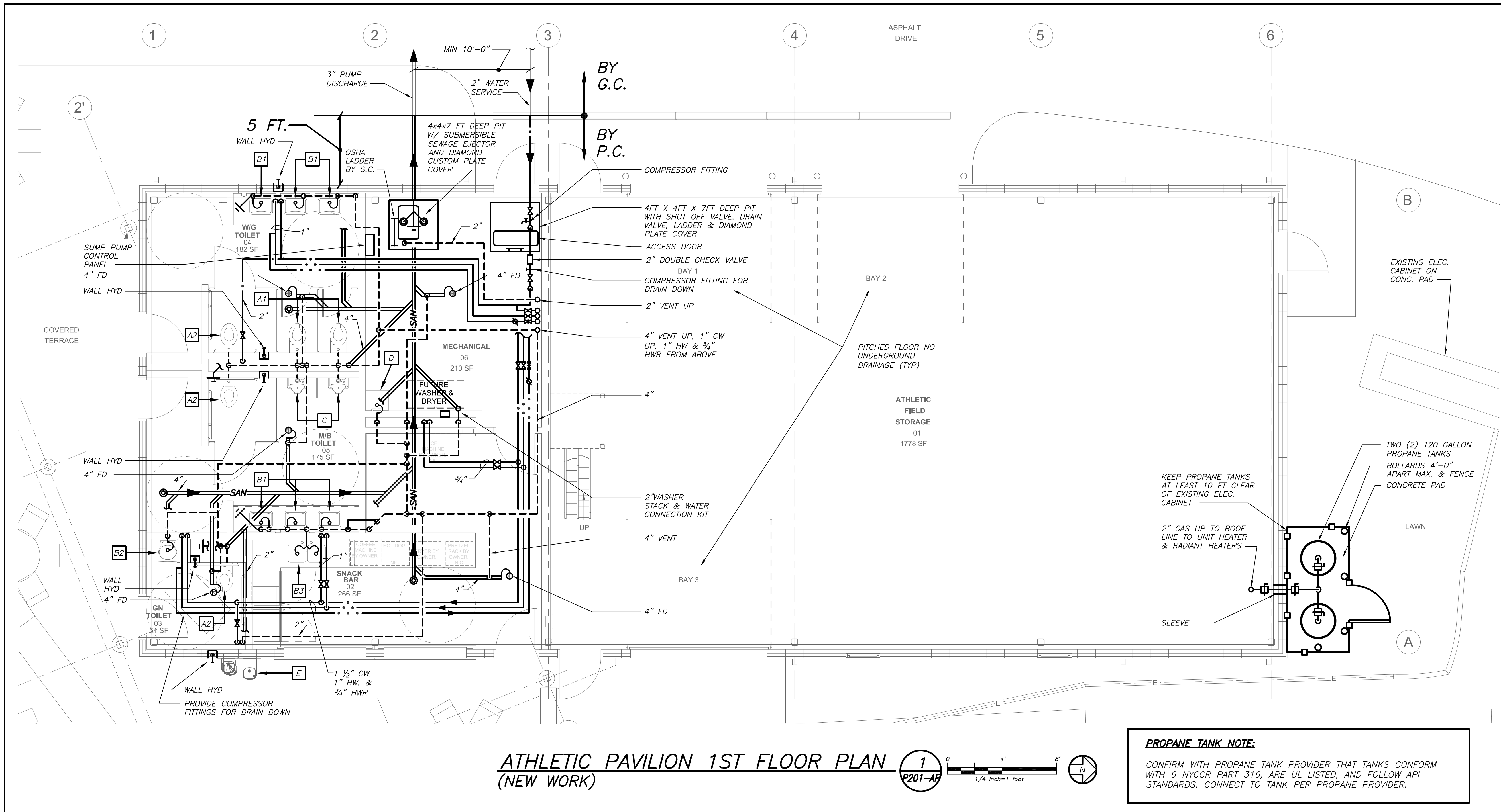
No. Date Issue

Sheet Title

ATHLETIC PAVILION SCHEDULES & DETAILS

Job No.	2023-1028	Sheet Number
Date	09/31/2023	
Scale	AS NOTED	
Drawn / Checked	- / -	

A403-AP



LEGEND	
---	EXISTING PIPING, FIXTURES, ETC. TO REMAIN
----	EXISTING PIPING, FIXTURES, ETC. TO BE REMOVED
---	NEW PIPING, FIXTURES, ETC.
---	COLD WATER PIPING
---	HOT WATER PIPING
---	HOT WATER RETURN PIPING
---	PLUMBING VENT PIPING
---	SANITARY PIPING
---	SANITARY PIPING (UNDERGROUND)
---	EXISTING SANITARY PIPING
---	EXISTING SANITARY PIPING (UNDERGROUND)
---	PUMP DISCHARGE PIPING
---	PUMP DISCHARGE PIPING (UNDERGROUND)
---	STORM PIPING
---	STORM PIPING (UNDERGROUND)
---	EXISTING STORM PIPING
---	EXISTING STORM PIPING (UNDERGROUND)
---	UNINTERRUPTIBLE GAS PIPING
---	EXISTING GAS PIPING
---	FIRE PROTECTION PIPING
---	SPRINKLER PIPING
---	SPRINKLER HEAD
---	FLOW DIRECTION WITHIN PIPE
---	CLEANOUT
---	CLEANOUT DECK PLATE
---	SHUT-OFF VALVE
---	COMBINATION BALANCING & SHUT-OFF VALVE
---	OS & Y VALVE
---	OS & Y VALVE WITH TAMPER SWITCH
---	CHECK VALVE
---	GAS SHUT OFF COCK
---	SIDEWALL SPRINKLER HEAD
---	PIPE CONNS. (BOTTOM, TOP 45 OR 90, PIPE UP)
---	PLUMBING FIXTURE IDENTIFICATION
---	BACKFLOW PREVENTER APPURTENANCE IDENTIFICATION
---	P.C. PLUMBING CONTRACTOR
---	G.C. GENERAL CONTRACTOR
---	HVAC HVAC CONTRACTOR
---	VTR VENT THRU ROOF
---	FAI FRESH AIR INTAKE
---	FD FLOOR DRAIN
---	PRV PRESSURE REDUCING VALVE
---	CIRCULATOR PUMP IDENTIFICATION
---	SUMP PUMP IDENTIFICATION
---	HOT WATER HEATER IDENTIFICATION
---	POINT OF CONNECTION
---	PART PLAN, DETAIL, SECTION NUMBER
---	DRAWING NUMBER
---	SECTION IDENTIFICATION

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

NEW CONSTRUCTION
& ATHLETIC
UPGRADES

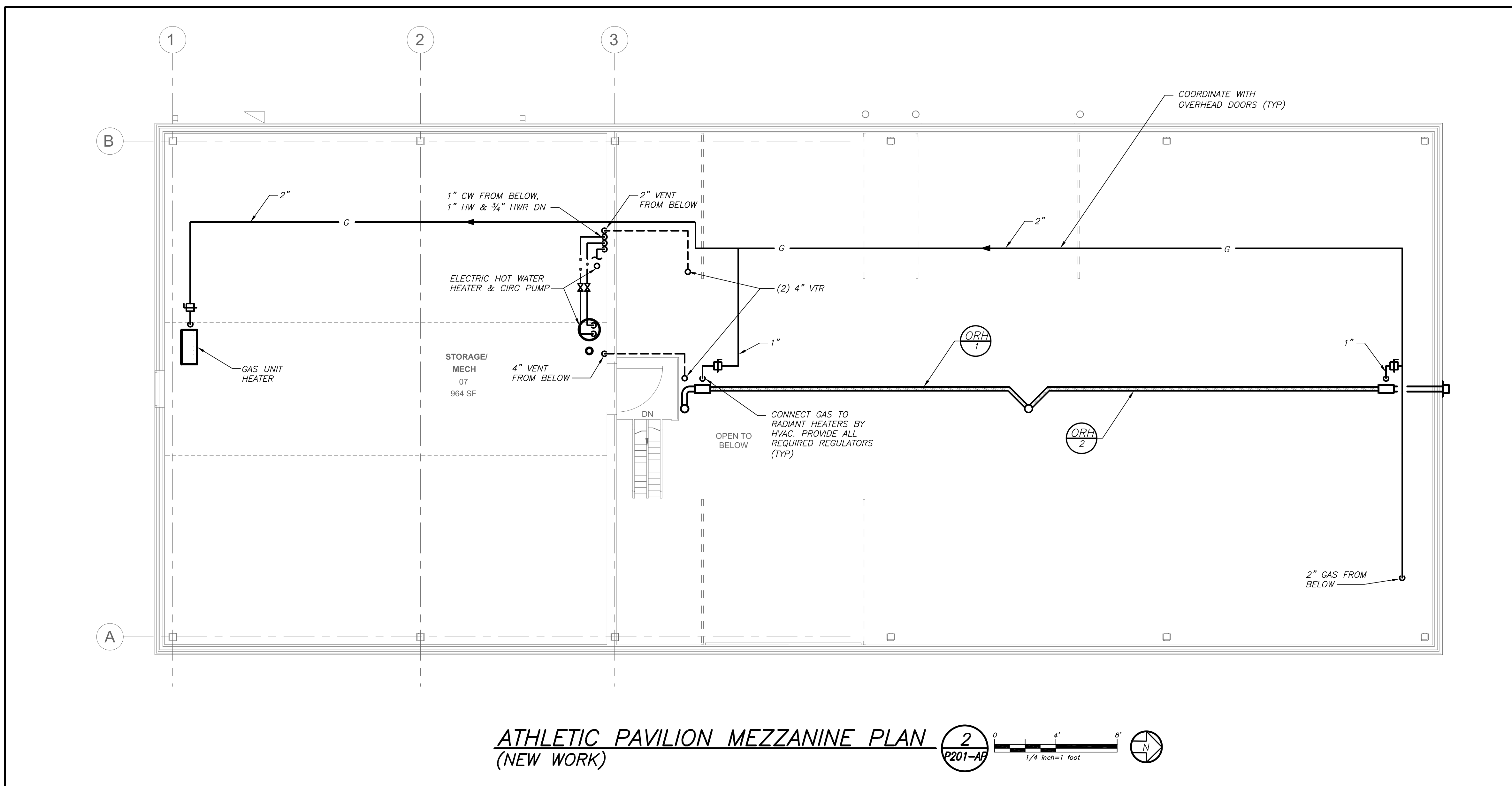
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PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	BRANCH SIZE			
		W	V	H	C
A1	WALL MOUNTED WATER CLOSET (FLUSH VALVE)	4"	2"	-	1"
A2	WALL MOUNTED WATER CLOSET (FLUSH VALVE) (HANDICAPPED)	4"	2"	-	1"
B1	COUNTERTOP LAVATORY (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B2	WALL MOUNTED LAVATORY (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B3	COUNTERTOP STAINLESS STEEL SINK (HANDICAPPED) BY GC. PC TO HOOK UP COMPLETE.	1-1/2"	1-1/2"	1/2"	1/2"
C	URINAL - WALL MOUNTED	3"	2"	-	1/2"
D	JANITOR SINK	3"	2"	3/4"	3/4"
E	WATER COOLER WITH BOTTLE FILL	2"	1-1/2"	3/4"	3/4"

SUBMERSIBLE SEWAGE EJECTOR DETAIL

1. THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGNOSTIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
2. DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
3. EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
4. ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
5. REMOVE OR RELOCATE ALL DEVICES LOCATED ON THE EXTERIOR OF THE BUILDING OR ON THE INTERIOR OF EXTERIOR WALLS AS REQUIRED TO ACCOMMODATE A NEW BUILDING ADDITION OR TO ALLOW THE ADDITION OF DOORWAYS INTO THE NEW ADDITION.
6. REMOVALS SHALL BE COORDINATED WITH OTHER TRADES AFFECTED.
7. REMOVAL OF ANY PIECE OF EQUIPMENT OR TERMINAL DEVICE SHALL INCLUDE REMOVAL OF CONNECTING DUCTWORK AND PIPING BACK TO EXISTING MAINS THAT REMAIN. CAP EACH BRANCH AIR/WATER-TIGHT. CONTROLS AND CONTROL COMPONENTS SHALL ALSO BE REMOVED. DO NOT LEAVE COMPONENTS (CONTROLLERS, PNEUMATICS, ETC.) THAT HAVE NO FUNCTION. PROVIDE CONTROL WIRING, DUCTWORK, PIPING, ETC. AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE FOR EQUIPMENT OR TERMINAL DEVICES TO REMAIN.
8. ALL PIPING TO BE REMOVED SHALL BE PROPERLY PLUGGED OR CAPPED BENEATH FINISHED SURFACES, SO THAT UPON COMPLETION OF ALL NEW WORK, ALL ABANDONED PIPING SHALL BE CONCEALED IN FINISHED AREAS.
9. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF JOB. BRANCHES SHALL BE CUT AND CAPPED AT MAINS. THE EXISTING SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF NEW WORK.
10. CHIMNEY INSPECTION AND SOOT REMOVAL: ON PROJECTS INCLUDING BOILER REMOVAL OR REPLACEMENT, CONTRACTOR SHALL GATHER TOGETHER WITH A VACUUM-CLEANING MACHINE ALL ACCUMULATIONS OF SOOT. HE SHALL REMOVE ALL SOOT FROM THE BASE OF THE CHIMNEY. THE CHIMNEY SHALL BE INSPECTED AND ANY DEFICIENCIES NOTED IN A WRITTEN REPORT.

AD	ACCESS DOOR
AF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL TRADE CONTRACTOR
ATC	AUTOMATIC TEMPERATURE CONTROL SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM (ATC)
BR	BOTTOM WALL REGISTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CR	CEILING REGISTER
CO	CLEAN OUT (DOOR)
CV	MOTORIZED CONTROL VALVE
EC	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT SYSTEM (ATC)
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FSC	FULL SIZE CONNECTION
FSD	FIRE/SMOKE DAMPER
GC	GENERAL TRADES CONTRACTOR
HVAC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
MFR	MANUFACTURER
MD	MOTORIZED DAMPER
OAI/FAI	OUTSIDE (FRESH) AIR INTAKE
PFRE	PRE-FINISHED SHEET METAL ENCLOSURE
PL	PLUMBING CONTRACTOR
SMRE	SHEET METAL RISER ENCLOSURE (PRE-FINISHED)
TD	TRANSFER DUCT
TR	TOP WALL REGISTER
WMG	1/2" SQ. WIRE MESH GRILLE
VF	VERIFY IN FIELD

DBE: TAB: H301 - Y:\CHAPPAQUA CSD\Chappaqua CSD - DW Capital Projects (2332.00)\Drawings\HVAC\HGHS\233200-H001-HGAP.dwg - DATE: Sep 12, 2024 - 5:01pm

1. BEFORE SUBMITTING A PROPOSAL, BIDDERS SHALL EXAMINE ALL RELATED TO THIS WORK AND SHALL BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE OTHER WORK IN THE BUILDING.
2. BEFORE COMMENCING WORK, THE CONTRACTOR WILL EXAMINE ALL CONDITIONS OF THE PROJECT UPON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. NO WAIVER OF RESPONSIBILITY" FOR INCOMPLETE, INADEQUATE OR DEFECTIVE JOINING WORK WILL BE CONSIDERED UNLESS NOTICE HAS BEEN FILED BY THIS CONTRACTOR AND ACCDED TO BY THE OWNER'S REPRESENTATIVE IN WRITING BEFORE THE CONTRACTOR BEGINS ANY PART OF THE WORK.
3. THE CONTRACTOR WILL PAY FOR ALL LICENSES, PERMITS AND INSPECTION FEES REQUIRED BY CIVIL AUTHORITIES HAVING JURISDICTION. COMPLY WITH ALL LAWS, ORDINANCES, REGULATIONS, AND FIRE UNDERWRITER'S REQUIREMENTS APPLICABLE TO WORK HEREIN SPECIFIED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
4. SMALL SCALE DRILLING THROUGH WALLS AND FLOORS OR CUTTING OF PIPING INSULATION WHICH MAY CONTAIN ASBESTOS SHALL BE PERFORMED BY A PERSON WITH A "RESTRICTED ASBESTOS HANDLER ALLIED TRADES CERTIFICATE" AND SHALL HAVE A COPY OF IT IN HIS POSSESSION AT ALL TIMES WHILE WORKING OF THE PROJECT. THIS SHALL ALSO APPLY TO REMOVAL OF PIPING, DUCTWORK OR EQUIPMENT INSULATION.
5. IT IS SPECIFICALLY INTENDED THAT ANYTHING (WHETHER MATERIAL OR LABOR) WHICH IS USUALLY FURNISHED AS A PART OF SUCH EQUIPMENT, AS HEREINAFTER CALLED FOR (OF WHICH IS NECESSARY FOR THE COMPLETION AND PROPER OPERATION) SHALL BE FURNISHED AS PART OF THIS CONTRACT WITHOUT ADDITIONAL COST TO THE OWNER, WHETHER OR NOT SHOWN IN DETAIL OR DESCRIBED IN THE SPECIFICATIONS.
6. WHEN DRAWINGS AND SPECIFICATIONS CONFLICT OR THERE IS A QUESTION AS TO THE PROPER INTENT OF THIS CONTRACT, THE CONTRACTOR SHALL ASSUME THE GREATER QUANTITY, THE HIGHER QUALITY AND/OR THE MORE EXPENSIVE METHOD IN HIS PRICING. ALL QUESTIONS SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER IN WRITING ONLY AND ONLY UP TO TEN (10) DAYS PRIOR TO BIDDING.
7. THE DRAWINGS INDICATE THE GENERAL RUNS OF THE PIPING, DUCTWORK, ETC. SYSTEMS AND THE LOCATION OF EQUIPMENT AND APPARATUS, HOWEVER IT SHALL BE UNDERSTOOD THAT THE RIGHT IS RESERVED BY THE ARCHITECT/ENGINEER TO CHANGE THE LOCATION OF PIPING WORK, DUCTWORK, EQUIPMENT AND APPARATUS TO A REASONABLE EXTENT AS BUILDING CONDITIONS MAY DICTATE, PRIOR TO THEIR INSTALLATION WITHOUT EXTRA COST TO THE OWNER.
8. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. THE CONTRACTOR SHALL ACCOUNT FOR ANY LINING IN SIZING OF SHEET METAL.
9. ALL COMPONENTS SUPPLIED BY THIS CONTRACTOR SHALL BE UL LISTED AND/OR ETL LABELED AND SHALL CONFORM TO ASHRAE STANDARD 15.
10. ANY CHANGES FROM THE DRAWINGS AND SPECIFICATIONS AND ANY INTERPRETATION THEREOF SHALL HAVE THE PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SUBMIT IN WRITING, AT THE TIME OF SIGNING THE CONTRACT, ANY ITEMS OF NECESSARY LABOR AND MATERIALS, WHICH, IN HIS OPINION, ARE LACKING IN REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS TO INSURE A COMPLETE JOB IN ALL RESPECTS. NO CONSIDERATION WILL BE GRANTED TO ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED, WORK TO BE DONE, OR CONDITIONS TO BE COMPLIED WITH, IT BEING UNDERSTOOD THAT THE TENDER OF A PROPOSAL CARRIES WITH IT THE AGREEMENT TO ALL ITEMS AND CONDITIONS REFERRED TO HEREIN, OR INDICATED ON THE ACCOMPANYING DRAWINGS.
11. FURNISH ALL COMBINATION MOTOR STARTER/DISCONNECTS FOR EQUIPMENT (WITH THE EXCEPTION OF STARTERS AND ELECTRIC ITEMS ALREADY MOUNTED ON EQUIPMENT OR EQUIPMENT NOT REQUIRING SAME). FAN MOTOR STARTER/DISCONNECTS SHALL HAVE CONTACTS FOR ATS CONNECTION AND A TERMINAL BLOCK CONNECTION FOR FIRE ALARM FAN SHUTDOWN. STARTERS PER MANUFACTURERS RECOMMENDATIONS. UNDERWRITERS INSPECTION AND CERTIFICATE REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR.
12. THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PROVIDING ELECTRIC, GAS, WATER, ETC. CONNECTIONS TO SYSTEMS OR EQUIPMENT THAT ARE PART OF THIS CONTRACT. PROVIDE EQUIPMENT THAT IS PART OF THIS CONTRACT. PROVIDE EQUIPMENT CUTS AND EXACT LOCATIONS, INCLUDING ORIENTATION, OF ALL SYSTEMS AND EQUIPMENT REQUIRING SUCH CONNECTIONS. THIS SHALL BE DONE WELL IN ADVANCE OF THOSE TRADES INSTALLING THEIR CONNECTION WORK.
13. COORDINATION DRAWINGS (IF APPLICABLE): ATTENTION IS DIRECTED TO DIVISION 1 FOR COORDINATION DRAWING REQUIREMENTS FOR THIS PROJECT. THESE DRAWINGS ARE CRITICAL TO THE PROPER EXECUTION OF THE WORK AND FAILURE TO HONOR THESE REQUIREMENTS MAY BECOME THE BASIS FOR DENIAL OF ANY AND ALL CLAIMS FOR EITHER OR BOTH "TIME" AND "MONEY".
14. LOCATION AND SIZES OF EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING WORK SHALL BE VERIFIED ON THE JOB.
15. BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.
16. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISE WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
17. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED ITEMS.
18. OPENINGS AROUND PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
19. PREPARE "AS-BUILT" DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

	EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN		HOT WATER COIL IDENTIFICATION
	EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED		HOT WATER HEATER IDENTIFICATION
	POINT OF CHANGE IN DUCT SIZE NEW DUCTWORK		HOT WATER PUMP IDENTIFICATION
	1" THERMAL ACOUSTIC LINING-DUCT SIZES ON PLANS ARE CLEAR INSIDE DIMENSIONS		HEAT EXCHANGER IDENTIFICATION
	NEW DUCTWORK FLEXIBLE CONNECTION / POINT OF CHANGE IN DUCT SIZE		MAKEUP AIR UNIT IDENTIFICATION
	NEW DUCTWORK FLEXIBLE CONNECTION / POINT OF CHANGE IN DUCT SIZE		GAS FIRED RADIANT HEATER IDENTIFICATION
	SQUARE DUCT TURN WITH TURNING VANES		SUPPLY FAN IDENTIFICATION
	EXISTING CEILING DIFFUSER		ROOF MOUNTED AIR HANDLING UNIT IDENTIFICATION
	EXISTING 3-WAY CEILING DIFFUSER		RETURN FAN IDENTIFICATION
	EXISTING 2-WAY CEILING DIFFUSER		ROOFTOP UNIT IDENTIFICATION
	EXISTING CEILING REGISTER		UNIT HEATER IDENTIFICATION
	TYPE - SEE SCHEDULE NEW 4-WAY CEILING DIFFUSER		UNIT VENTILATOR IDENTIFICATION
	TYPE - SEE SCHEDULE NEW 3-WAY CEILING DIFFUSER		UNIT VENTILATOR AIR CONDITIONER IDENTIFICATION
	TYPE - SEE SCHEDULE NEW 2-WAY CEILING DIFFUSER		UNIT VENTILATOR FRESH AIR INTAKE IDENTIFICATION
	TYPE - SEE SCHEDULE CEILING EXHAUST/RETURN REGISTER		VERTICAL UNIT VENTILATOR IDENTIFICATION
	TYPE - SEE SCHEDULE REGISTER/DIFFUSER IDENTIFICATION		EXISTING AIR CONDITIONING UNIT IDENTIFICATION
	DUCT DROP; DUCT RISE		EXISTING AIR HANDLING UNIT IDENTIFICATION
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)		EXISTING BOILER IDENTIFICATION
	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)		EXISTING CHEMICAL FEED TANK IDENTIFICATION
	FD & AD FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR		EXISTING CABINET HEATER IDENTIFICATION
	FSD & AD COMBINATION FIRE/SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR		EXISTING CHILLED WATER PUMP IDENTIFICATION
	HWS HOT WATER HEATING SUPPLY PIPING		EXISTING CONDENSATE PUMP IDENTIFICATION
	HWR / HWRR HOT WATER RETURN / HOT WATER REVERSE RETURN PIPING		EXISTING CONVECTOR IDENTIFICATION
	CHWS CHILLED WATER SUPPLY PIPING		EXISTING CONDENSING UNIT IDENTIFICATION
	CHWR CHILLED WATER RETURN PIPING		EXISTING DEHUMIDIFIER IDENTIFICATION
	L LIQUID REFRIGERANT PIPING		EXISTING DEDICATED OUTDOOR AIR SYSTEM IDENTIFICATION
	S SUCTION REFRIGERANT PIPING		EXISTING DEDICATED DUCTLESS SPLIT INDOOR UNIT IDENTIFICATION
	HG HOT GAS REFRIGERANT PIPING		EXISTING DEDICATED DUCTLESS SPLIT OUTDOOR UNIT IDENTIFICATION
	CD CONDENSATE DRAIN PIPING		EXISTING DIRECT EXPANSION REFRIGERANT COIL IDENTIFICATION
	GLWS GEOTHERMAL GROUND LOOP WATER SUPPLY PIPING		EXISTING EXHAUST FAN IDENTIFICATION
	GLWR GEOTHERMAL GROUND LOOP WATER RETURN PIPING		EXISTING ENERGY RECOVERY UNIT IDENTIFICATION
	EHWS EXISTING HOT WATER HEATING SUPPLY PIPING		EXISTING EXPANSION TANK IDENTIFICATION
	EHWR EXISTING HOT WATER HEATING RETURN PIPING		EXISTING INDOOR VRF FAN COIL UNIT IDENTIFICATION
	EHWRR EXISTING HOT WATER HEATING REVERSE RETURN PIPING		EXISTING VRF FLOW SELECTOR IDENTIFICATION
	ECHWS EXISTING CHILLED WATER SUPPLY PIPING		EXISTING FUEL OIL TANK IDENTIFICATION
	ECHWR EXISTING CHILLED WATER RETURN PIPING		EXISTING FUEL OIL PUMP IDENTIFICATION
	ELPS EXISTING LOW PRESSURE STEAM PIPING		EXISTING GLYCOL FEED SYSTEM IDENTIFICATION
	ECR EXISTING CONDENSATE RETURN PIPING		EXISTING GEOTHERMAL PUMP IDENTIFICATION
	FLOW DIRECTION WITHIN PIPE CONNECTION TO EQUIPMENT ABOVE		EXISTING GRAVITY RELIEF VENT IDENTIFICATION
	GATE VALVE (HORIZONTAL/VERTICAL)		EXISTING GROUND SOURCE HEAT PUMP UNIT IDENTIFICATION
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)		EXISTING AIR SOURCE HEAT PUMP VRF IDENTIFICATION
	2 - WAY CONTROL VALVE		EXISTING CEILING RADIANT HEATING PANEL IDENTIFICATION
	3 - WAY CONTROL VALVE		EXISTING HUMIDIFIER IDENTIFICATION
	EXPANSION JOINT, ANCHOR AND GUIDES		EXISTING HOT WATER COIL IDENTIFICATION
	CHECK VALVES		EXISTING HOT WATER HEATER IDENTIFICATION
	PIPE CONNS. (BOTTOM, TOP 45 OR 90; PIPE UP)		EXISTING HOT WATER PUMP IDENTIFICATION
	AUTOMATIC AIR VENT IDENTIFICATION		EXISTING HEAT EXCHANGER IDENTIFICATION
	THERMOMETER		EXISTING MAKEUP AIR UNIT IDENTIFICATION
	PRESSURE GAUGE (WITH SHUT-OFF COCK)		EXISTING SOUND ATTENUATOR IDENTIFICATION
	AIR HANDLING UNIT IDENTIFICATION		EXISTING SUPPLY FAN IDENTIFICATION
	BOILER IDENTIFICATION		EXISTING ROOF MOUNTED AIR HANDLING UNIT IDENTIFICATION
	CHEMICAL FEED TANK IDENTIFICATION		EXISTING RETURN FAN IDENTIFICATION
	CABINET HEATER IDENTIFICATION		EXISTING ROOFTOP UNIT IDENTIFICATION
	CHILLED WATER PUMP IDENTIFICATION		EXISTING UNIT HEATER IDENTIFICATION
	CONDENSATE PUMP IDENTIFICATION		EXISTING UNIT VENTILATOR IDENTIFICATION
	CONVECTOR IDENTIFICATION		EXISTING UNIT VENTILATOR AIR CONDITIONER IDENTIFICATION
	CONDENSING UNIT IDENTIFICATION		EXISTING UNIT VENTILATOR FRESH AIR INTAKE IDENTIFICATION
	DEHUMIDIFIER IDENTIFICATION		EXISTING VERTICAL UNIT VENTILATOR IDENTIFICATION
	DEDICATED OUTDOOR AIR SYSTEM IDENTIFICATION		TYPE - SEE SCHEDULE NEW FIN TUBE RADIATION IDENTIFICATION
	DEDICATED DUCTLESS SPLIT INDOOR UNIT IDENTIFICATION		EXISTING FIN TUBE RADIATION IDENTIFICATION
	DEDICATED DUCTLESS SPLIT OUTDOOR UNIT IDENTIFICATION		TO CONTROLLED ITEM WALL MTD.(5'-2"±A.F.F.-U.O.N.) TEMPERATURE SENSOR
	DIRECT EXPANSION REFRIGERANT COIL IDENTIFICATION		TO CONTROLLED ITEM WALL MTD.(5'-2"±A.F.F.-U.O.N.) REVERSE ACTING THERMOSTAT
	EXHAUST FAN IDENTIFICATION		TO CONTROLLED

Job No. 2023-1028	Sheet Number H001-AP
Date 09/16/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514



SED Control No.
HG: 66-10-04-06-0-015-023
AP: 66-10-04-06-7-052-001
CS: 66-10-04-06-7-027-002
OB: 66-10-04-06-0-026-002
SB: 66-10-04-06-0-036-007



Key Plan

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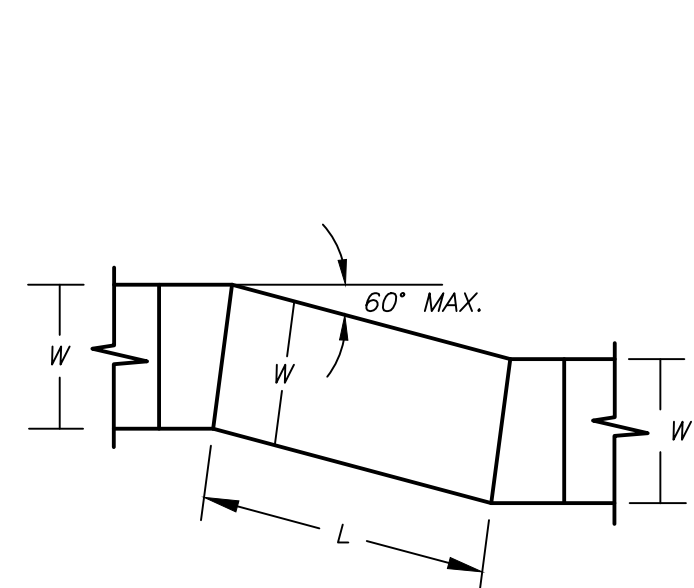
4	09/16/2024	ISSUE FOR BID
3	10/27/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

No.	Date	Issue
Sheet Title		

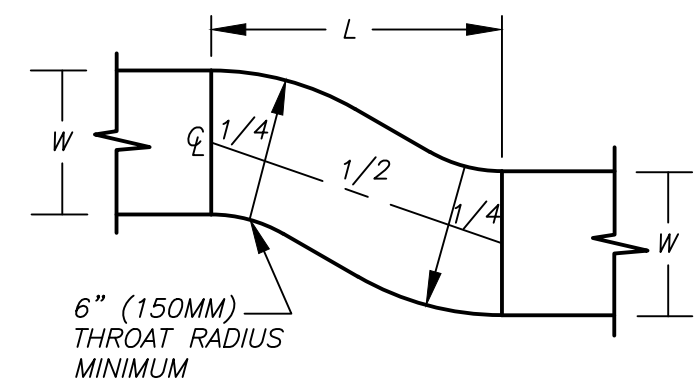
Job No. 2023-1028	Sheet Number
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Date	09/16/2024
Scale	AS NOTED
Drawn / Checked	BGA/BGA

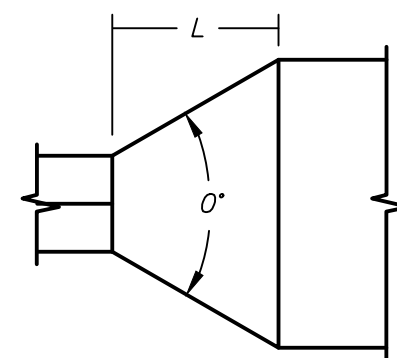
H201-AP



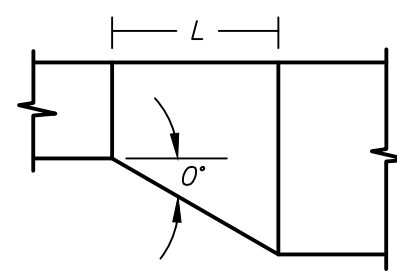
OFFSET TYPE 2
(MITERED)



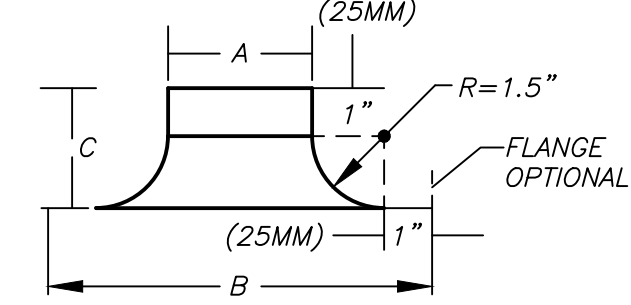
OFFSET TYPE 3
(RADIUSSED
OR OEGEE)



CONCENTRIC TRANSITION
0° MAX. 45° DIVERGING,
60° CONVERGING



CONCENTRIC TRANSITION
0° MAX. 30°
(EXCEPT 45° IS PERMITTED
AT ROUND TO FLAT OVAL)



CONCENTRIC TRANSITION
0° MAX. 30°
(EXCEPT 45° IS PERMITTED
AT ROUND TO FLAT OVAL)

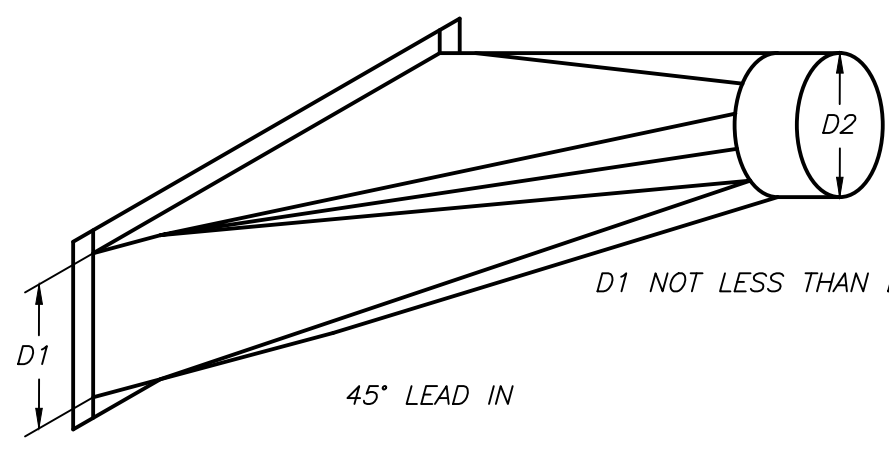


CONCENTRIC TRANSITION
0° MAX. 30°
(EXCEPT 45° IS PERMITTED
AT ROUND TO FLAT OVAL)

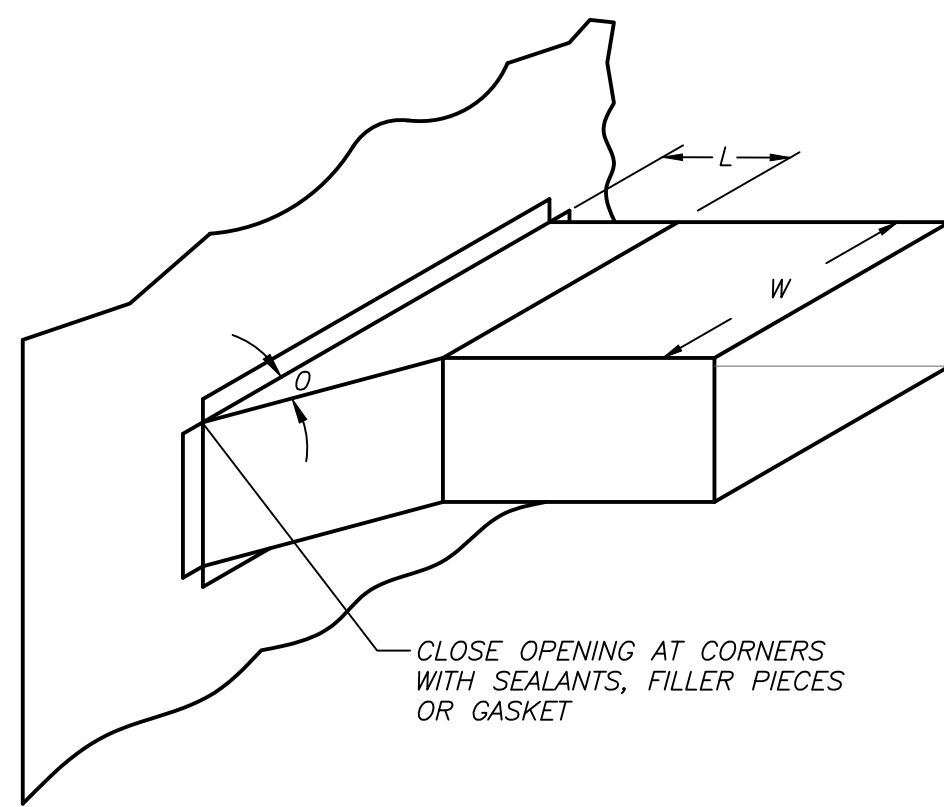
DUCT OFFSETS AND TRANSITIONS DETAIL

7
H301-AP

NO SCALE



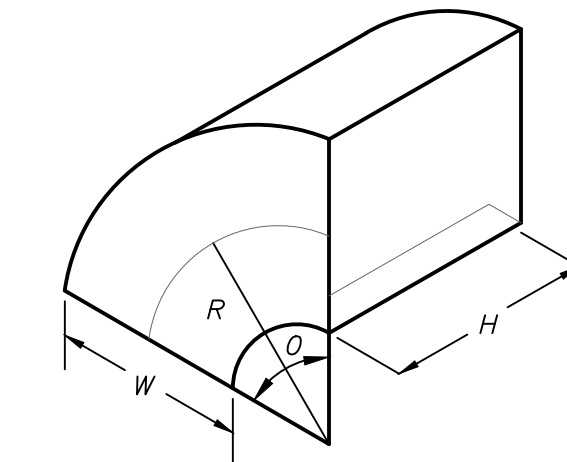
DO NOT USE CONNECTIONS WITH SCOOPS



DUCT BRANCH CONNECTIONS DETAIL

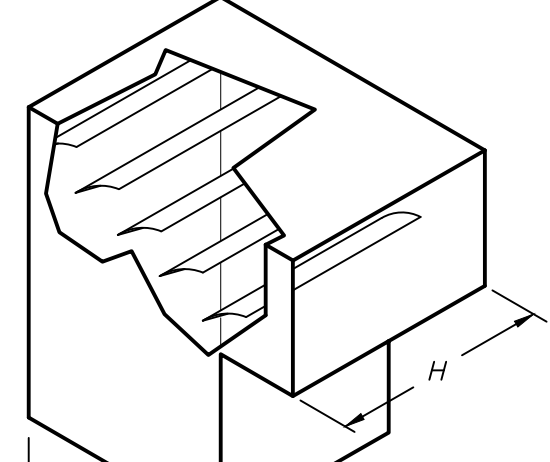
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H301-AP

NO SCALE

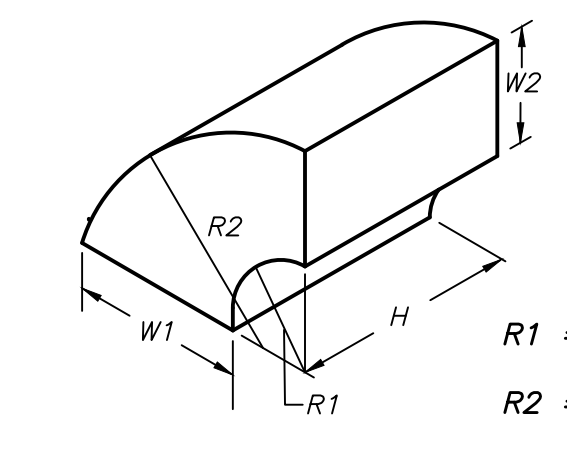


TYPE RE 1
RADIUS ELBOW

CENTERLINE R = 3W/2 UNLESS OTHERWISE
SPECIFIED- IS NOT RESTRICTED TO 90°
SQUARE THROAT R/W = 0.5, MAY BE USED,
UP TO 1000 FPM (5 MPS)

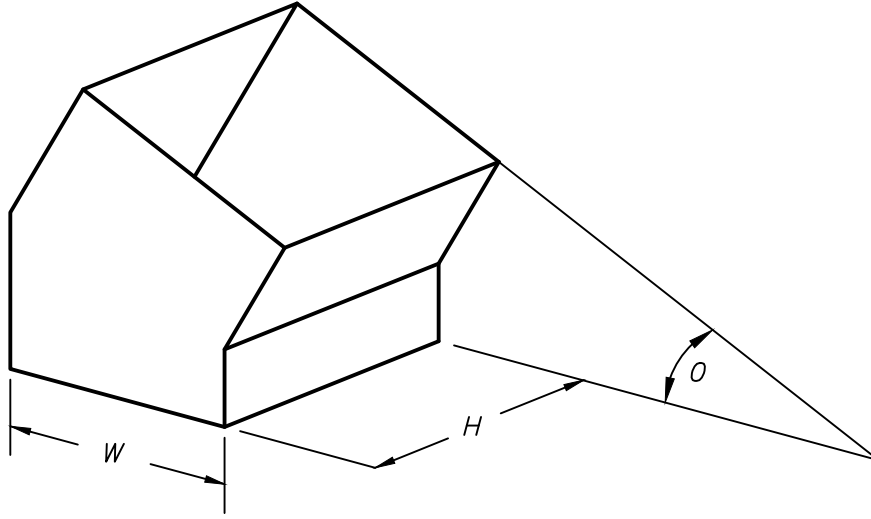


TYPE RE 2
SQUARE THROAT ELBOW
WITH VANES



TYPE RE 5
DUAL RADIUS ELBOW

BEAD, CROSSBREAK AND REINFORCE FLAT SURFACES AND STRAIGHT DUCT

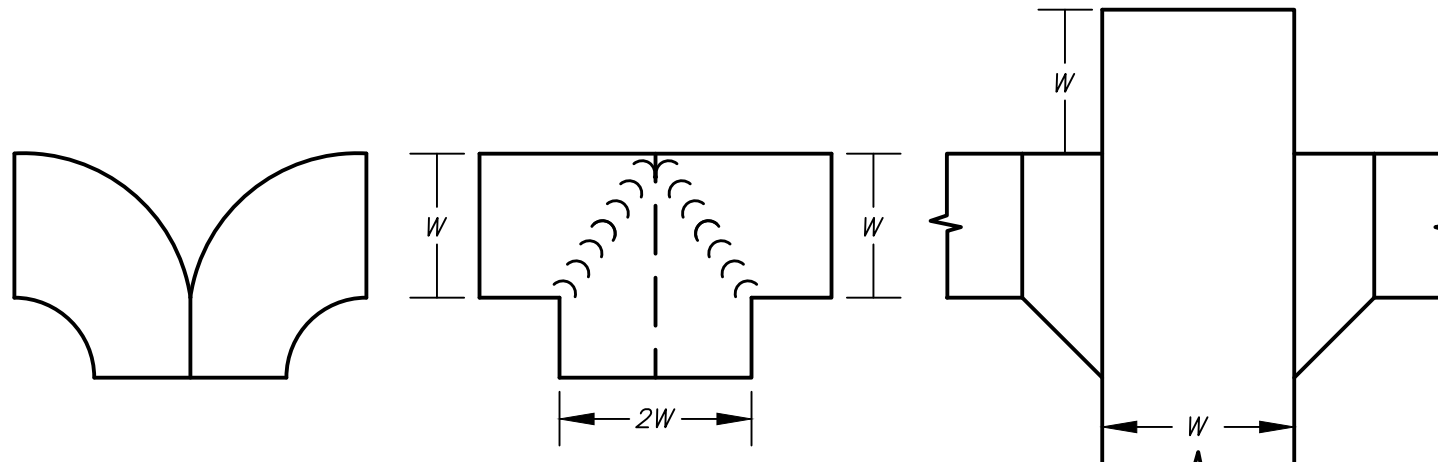


TYPE RE 6
MITERED ELBOW

DUCT RECTANGULAR ELBOWS DETAIL

5
H301-AP

NO SCALE

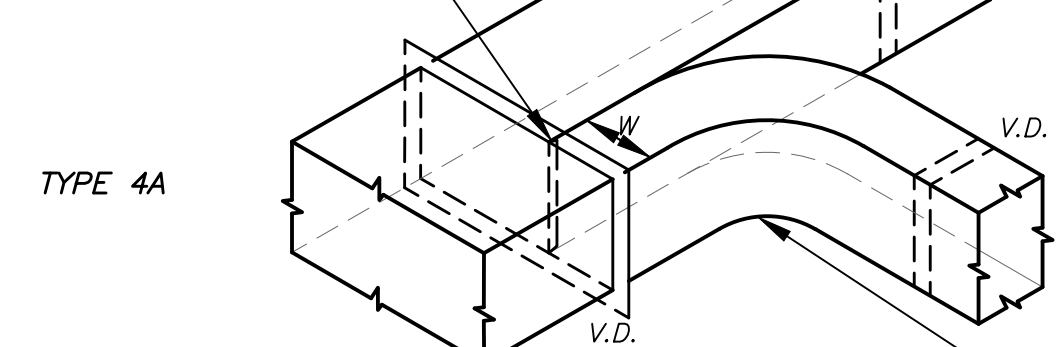


TYPE 1

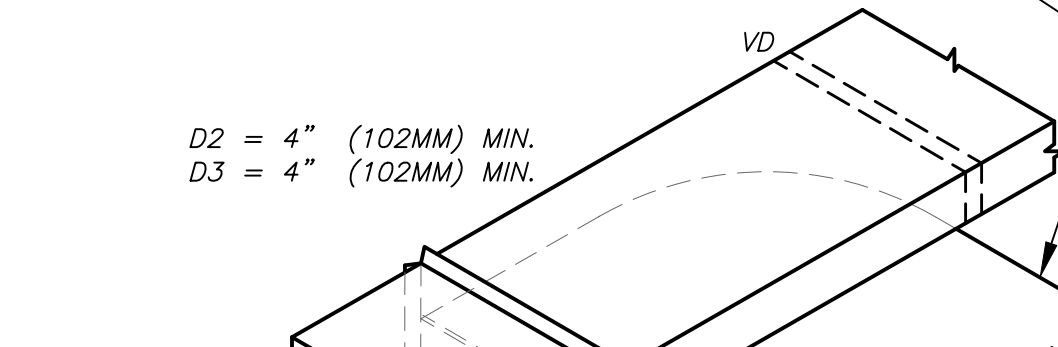
TYPE 2

TYPE 3

* S-SLIP OR U CLIP OPTIONAL
ALL SUCH CONNECTIONS TO BE
SEALED



TYPE 4A



TYPE 4B

D2 = 4" (102MM) MIN.
D3 = 4" (102MM) MIN.

SQUARE THROAT ELBOW
OPTIONAL

VOLUME CONTROL BY BRANCH DAMPERS
SPLITTER LENGTH SHOULD BE 1.5 W OR 1.5 D3

DUCT DIVIDED FLOW BRANCHES DETAIL

6
H301-AP

NO SCALE

SCHEDULE OF EXHAUST FANS

MARK	SERVICE	LOCATION	MODEL No. ①	TYPE	CFM	EXT. S.P. IN H ₂ O	RPM	HP	ELECTRIC V/PH/Hz	SIZE (IN)	WEIGHT (LBS.)	REMARKS
①	ATHLETIC FIELD STORAGE	STORAGE	SBE	PROPELLER	2,500	0.35	810	1/2	120/1/60	32Lx32Wx20H	100	REFER TO ②③④⑤
②	ATHLETIC PAVILION TOILETS	MECH 07	SQ-99-VG	IN-LINE CENTRIFUGAL	650	1.0	1860	1	120/1/60	21Lx15Wx15H	67	REFER TO ②③⑤
③	ATHLETIC PAVILION MECH	MECH 06	SP-A250	CABINET	250	0.25	900	60W	120/1/60	14Lx12Wx12H	25	REFER TO ②③⑤

- NOTES**
- AS MANUFACTURED BY "GREENHECK".
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL, DISCONNECT SWITCH, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.
 - PROVIDE ROOF CURB, WEATHERPROOF FACTORY MOUNTED DISCONNECT SWITCH, INTERNALLY MOUNTED VARIABLE SPEED CONTROLLER, MOTORIZED DAMPER, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.
 - INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION / NUMBERING / LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF GAS UNIT HEATERS

MARK	MODEL No. ①	BURNER DATA INPUT (BTUH) OUTPUT (BTUH)	FUEL	MOTOR HP	ELECTRIC SERVICE	PHYSICAL DATA LxWxH	WEIGHT (LBS)	REMARKS
①	UEASB5	85,000 79,050	PROPANE	0.5	120/1/60	30/33/21	105	REFER TO ②③④⑤

- NOTES**
- AS MANUFACTURED BY "REZNOR".
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - SET TO LOW SPEED. PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND MANUAL THERMOSTAT.
 - SUPPORT BY STRUCTURE & PROVIDE ALL CLEARANCES.

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. ①	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS
①	CEILING REGISTER	RETURN	635	-	OPPOSED BLADE	PER ARCH.	REFER TO ②③④⑤

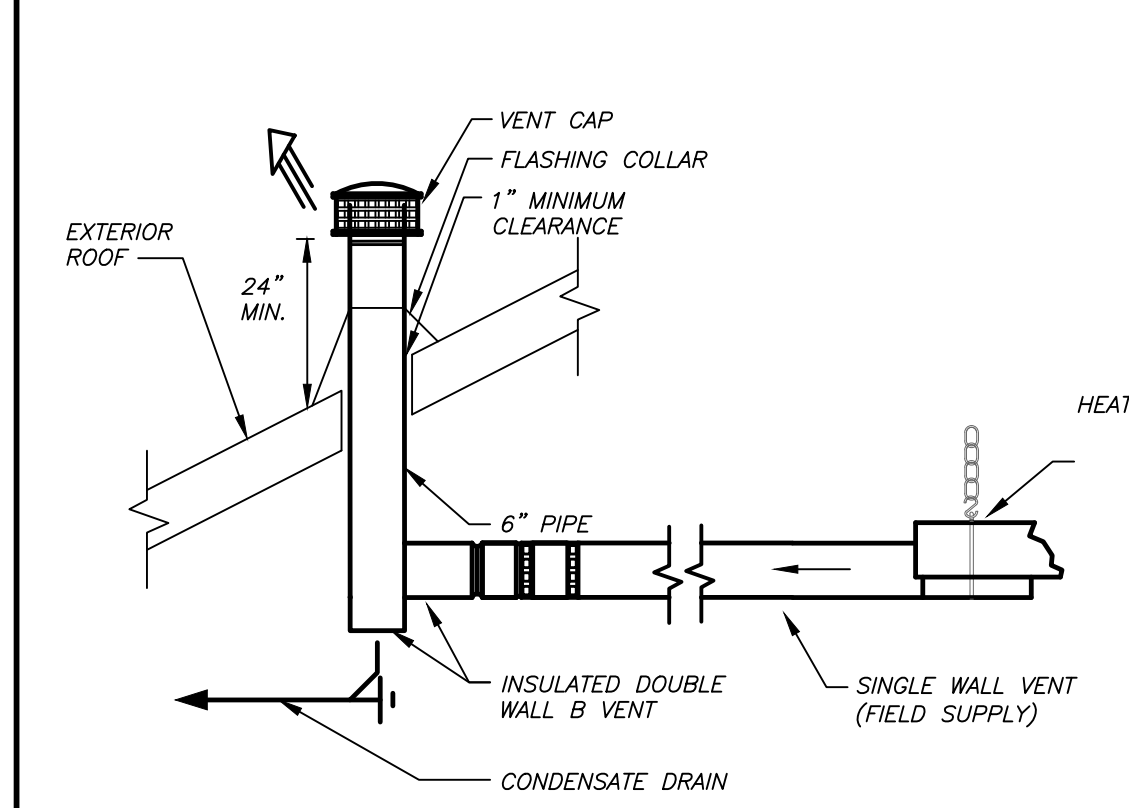
- NOTES**
- AS MANUFACTURED BY "PRICE".
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE CABLE OPERATED DAMPERS IN UN-ACCESSIBLE AREAS.
 - PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE, COORDINATE ALL BORDER TYPES, COLORS, FINISHES, AND DIMENSIONS WITH ARCHITECT.

RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)	
50 TO 148	150 TO 249
150 TO 250	250 TO 350
250 TO 350	350 TO 450
350 TO 450	450 TO 550
450 TO 550	550 TO 650
650 TO 750	750 TO 850
750 TO 850	850 TO 950
950 TO 1050	1050 TO 1150
1150 TO 1250	1250 TO 1350
1350 TO 1450	1450 TO 1550
1550 TO 1650	1650 TO 1750
1750 TO 1850	1850 TO 1950
1950 TO 2050	2050 TO 2150
2150 TO 2250	2250 TO 2350
2350 TO 2450	2450 TO 2550

SCHEDULE OF GAS FIRED RADIANT HEATERS

MARK	SERVICE	LOCATION	TYPE	MODEL No. ①	GAS TYPE	INPUT MBH	ELECTRIC SERVICE	REMARKS
①	STORAGE BAYS	UPPER CEILING	OVERHEAD RADIANT	SST-X	PROPANE	65	120/1/60	REFER TO ②③④⑤

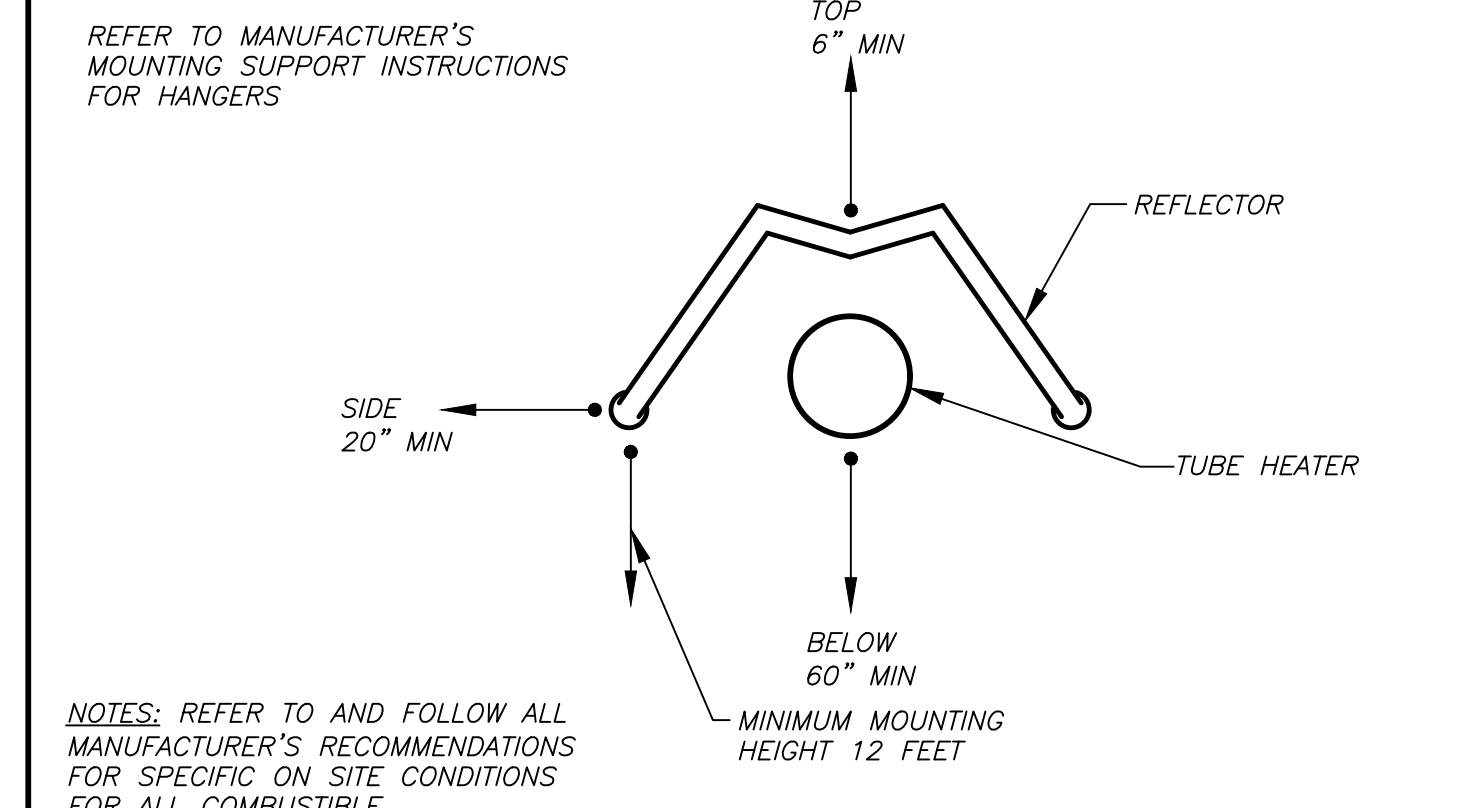
- NOTES**
- AS MANUFACTURED BY "SCHWANK".
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE MANUAL THERMOSTAT AND INTAKE/VENT CAPS.
 - PROVIDE ALL REQUIRED MOUNTING BRACKETS, HANGING RODS/CHAINS AND ATTACHMENTS AND SECURE TO STRUCTURE IN AN APPROVED MANNER.
 - MANUFACTURER TO SUBMIT SHOP DRAWING TO THIS CONFIGURED SPECIFIC INSTALLATION.



OVERHEAD RADIANT VENT DETAIL

3
H301-AP

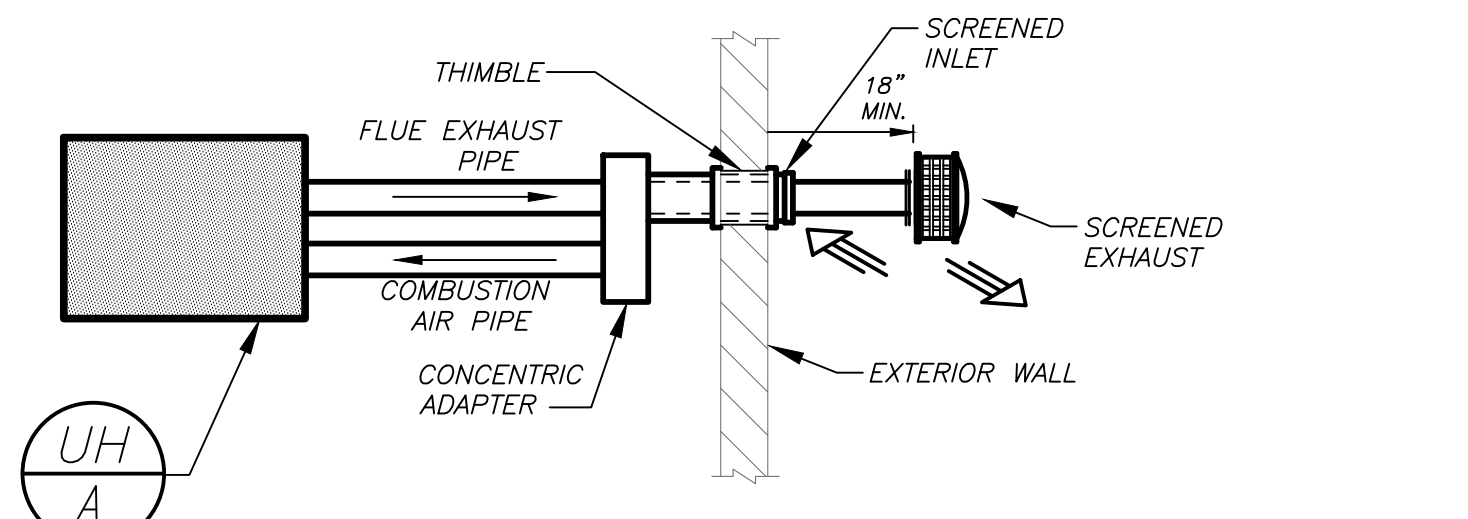
NO SCALE



HEATER DISTANCE TO COMBUSTIBLES DETAIL

1
H301-AP

NO SCALE



GAS-FIRED UNIT HEATER DETAIL

2
H301-AP

NO SCALE

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS NEW CONSTRUCTION & ATHLETIC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET *MOUNT KISCO, NEW YORK 10549
P-914.666.5900
KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
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AP: 66-10-04-06-7-052-001
CS: 66-10-04-06-7-027-002
OB: 66-10-04-06-0-026-002
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4	09/16/2024	ISSUE FOR BID
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Sheet Title

SCHEDULES & DETAILS

Job No.	Sheet Number
2023-1028	
Date	09/16/2024
Scale	AS NOTED
Drawn / Checked	BGA/BGA

H301-AP

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
- WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
- ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.
- CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
- FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
- PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
- ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
- THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
- EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
- WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
- CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
- PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
- CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
- THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
- PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
- COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
- ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
- ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.
- PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.
- LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.
- ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.

GENERAL REMOVAL NOTES

- BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
- BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
- ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.
- ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
- DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
- EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
- ALL FIRE ALARM DEVICES IN THE AREA OF WORK ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.
- EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT.
- EXTEND EXISTING CIRCUITS SERVING EQUIPMENT TO REMAIN FROM PANELS THAT ARE TO BE REMOVED TO NEW PANELS OR EXISTING PANELS THAT ARE TO REMAIN.

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP/AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AIC	AMP INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C.B.	CIRCUIT BREAKER
CH	CABINET HEATER
CU	CONDENSING UNIT
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
(ER)	EXISTING RELOCATED
F.A.C.P.	FIRE ALARM CONTROL PANEL
G.GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
kcmil	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NTS	NOT TO SCALE
P.A.	PUBLIC ADDRESS
PNL	PANEL
(R)	REMOVE EXISTING
RF	RETURN FAN
(RN)	REPLACE EXISTING W/NEW
(RR)	REMOVED, SALVAGED AND RELOCATED
TYP.	TYPICAL
UH	UNIT HEATER
UV	UNIT VENTILATOR
W	WATT
WP	WEATHERPROOF

LEGEND

	2'x4' LED CEILING MOUNTED LIGHT FIXTURE. UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	2'x4' LED CEILING MOUNTED LIGHT FIXTURE FOR EMERGENCY OPERATION. 'EM' INDICATES SWITCHED EMERGENCY FIXTURE, 'EM/NL'--UNSWITCHED EMERGENCY/NIGHT FIXTURE (TYP.).
	CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX, DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.
	WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY BACK-UP.
	DAYLIGHT PHOTO SENSOR FOR LIGHTING LEVEL CONTROL. WATTSTOPPER LS-102 (SWITCHING). PROVIDE POWER PACK WATTSTOPPER B2-150.
	FLUSH WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH, SIMILAR TO WATTSTOPPER LVSW-101. WORK WITH CEILING SENSORS (DT-300) FOR MANUAL ON, AUTO OFF OPERATION. 'Q' INDICATES CONTROL ZONE; '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH.
	CEILING MOUNTED LOW VOLTAGE, DUAL TECHNOLOGY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DT-300. MANUAL ON, AUTO OFF. WORK WITH LOCAL LOW VOLTAGE MOMENTARY CONTACT WALL SWITCH (LVSW-101). INCLUDE REQUIRED POWER PACKS. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN.
	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING OUTLET "Q". "K" WHERE USED INDICATES KEY SWITCH.
	FLUSH WALL MOUNTED 3-WAY LIGHTING CONTROL SWITCH.
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED TAMPER RESISTANCE DUPLEX RECEPTACLE SIMILAR TO HUBBELL #5362WTR.
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
	EXISTING ELECTRICAL PANELBOARD.
	WALL MOUNTED COMBINATION FIRE ALARM SPEAKER/STROBE DEVICE.
	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.
	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR
	BOOSTER POWER SUPPLY.
	CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR WITH SOUNDER BASE
	CEILING OR WALL MOUNTED GAS LEAK DETECTOR
	CEILING MOUNTED HEAT DETECTOR
	WALL MOUNTED FIRE ALARM STROBE LIGHT.
	FIRE ALARM CONTROL PANEL
	INTERFACE MODULE CONSISTING OF CONTROL RELAY AND MONITOR MODULES. IN NEMA 1 ENCLOSURE. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO Tie-IN FOR FAN SHUTDOWN.
	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES NON-FUSED/OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE.
	MOTOR (F.B.O. WIRED BY ELEC.) - NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4" U.O.N.
	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
	EXISTING TO REMAIN
	NEW
	AUTOMATIC TIME CLOCK FOR LIGHTING CONTROL. TORK 1100 SERIES.
	AUTOMATIC TWIST TIMER SWITCH 120V, 1P, 20AMP 0-12HR TIME SETTING SIMILAR TO INTERMATIC SPRING WOUND TIMERS #G1256622
	AUTOMATIC TWIST TIMER SWITCH 208V, 1P, 20AMP 0-12HR TIME SETTING SIMILAR TO INTERMATIC ELECTROMECHANICAL TIMER #MIL72AOTU2-240
	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.
MECHANICAL EQUIPMENT IDENTIFICATION:	
	EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.)
	EQUIPMENT NUMBER
DETAIL/PART PLAN NUMBER IDENTIFICATION:	
	DETAIL/PART PLAN NUMBER
	DRAWING NUMBER

DISTRICT-WIDE
CAPITAL IMPROVEMENTS
NEW CONSTRUCTION
& ATHLETIC
UPGRADES

CHAPPAQUA CENTRAL
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3	10/27/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

No.	Date	Issue
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Sheet Title

LEGENDS, NOTES
AND
ABBREVIATIONS

Job No.	2023-1028	Sheet Number
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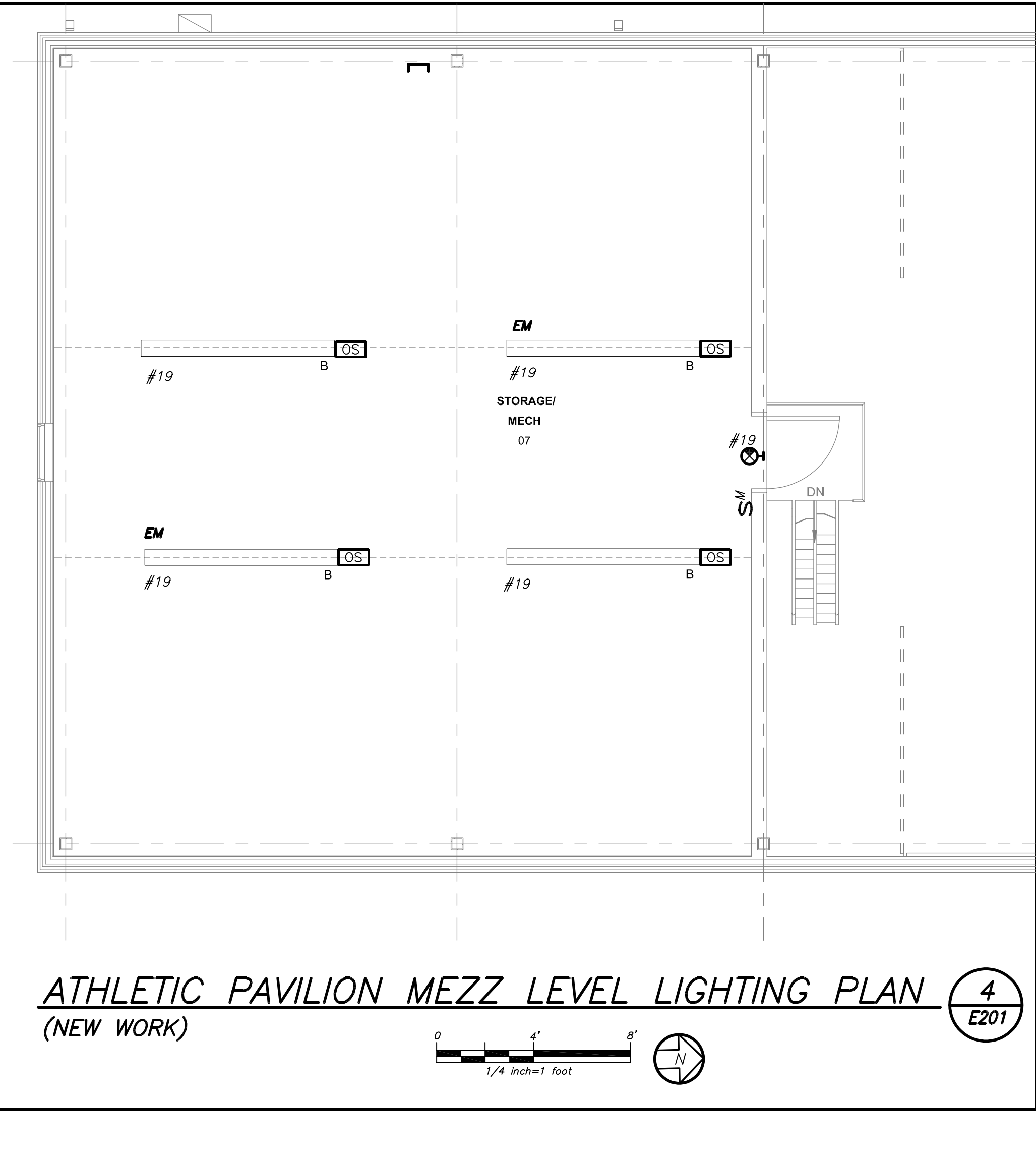
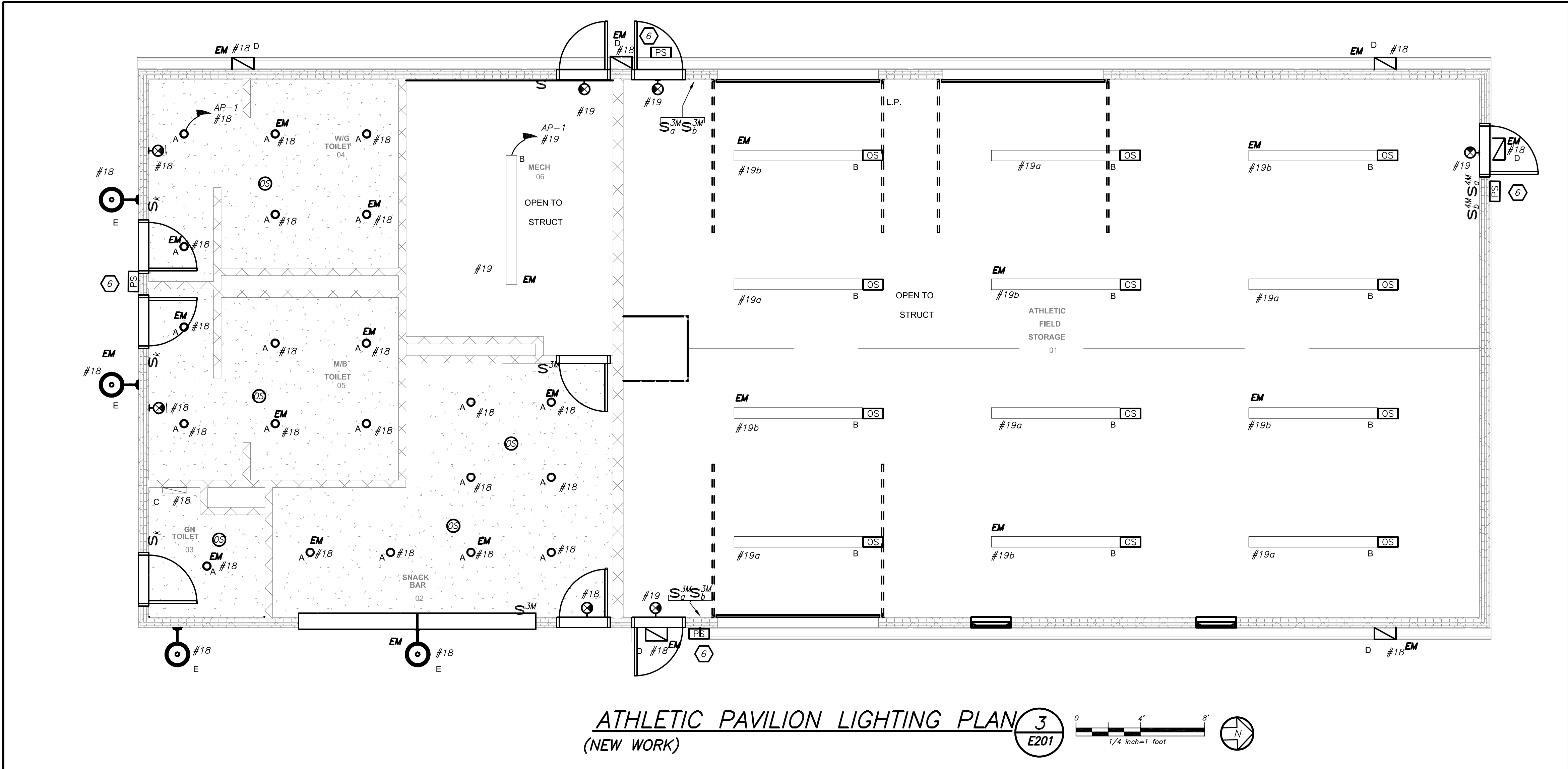
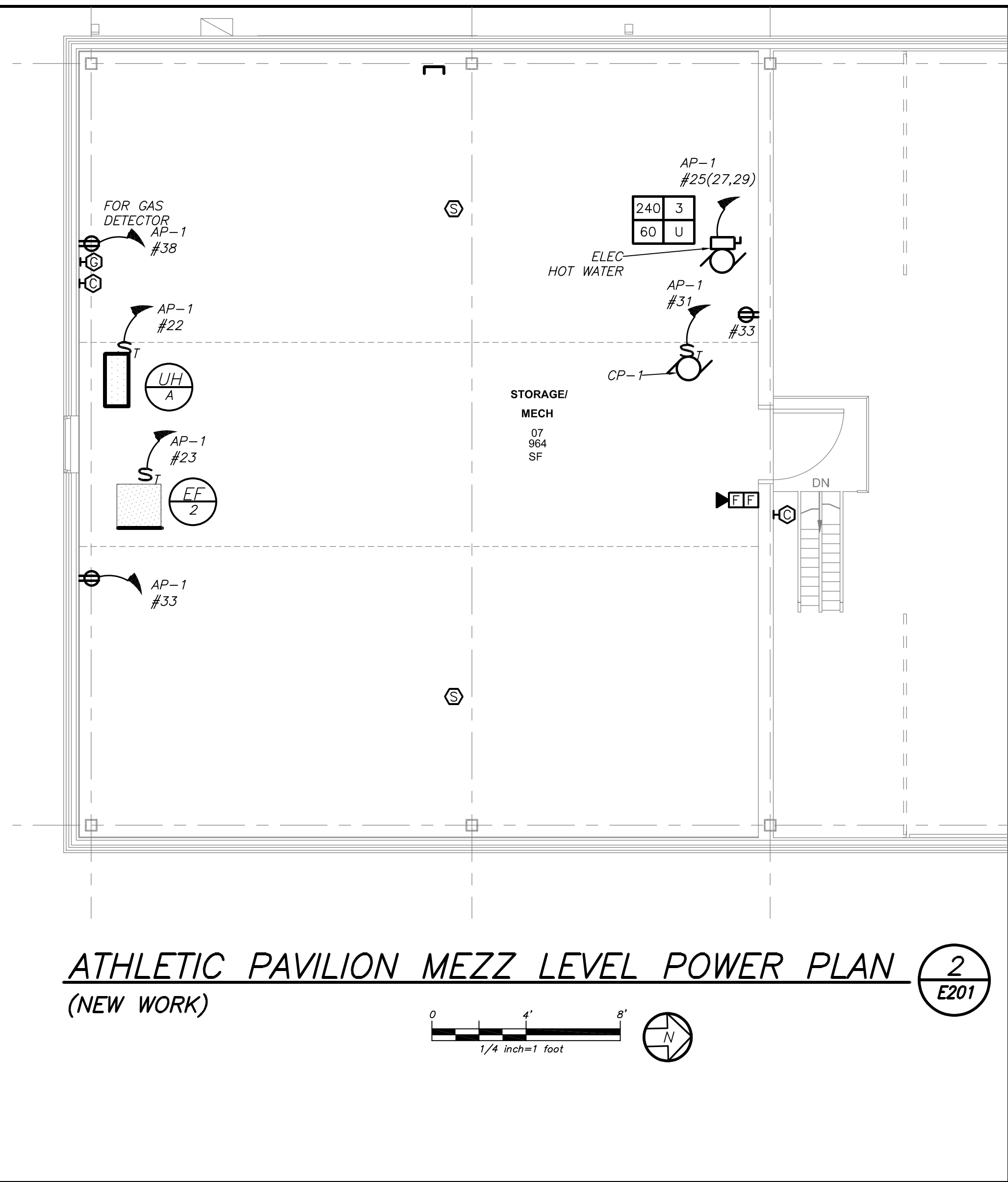
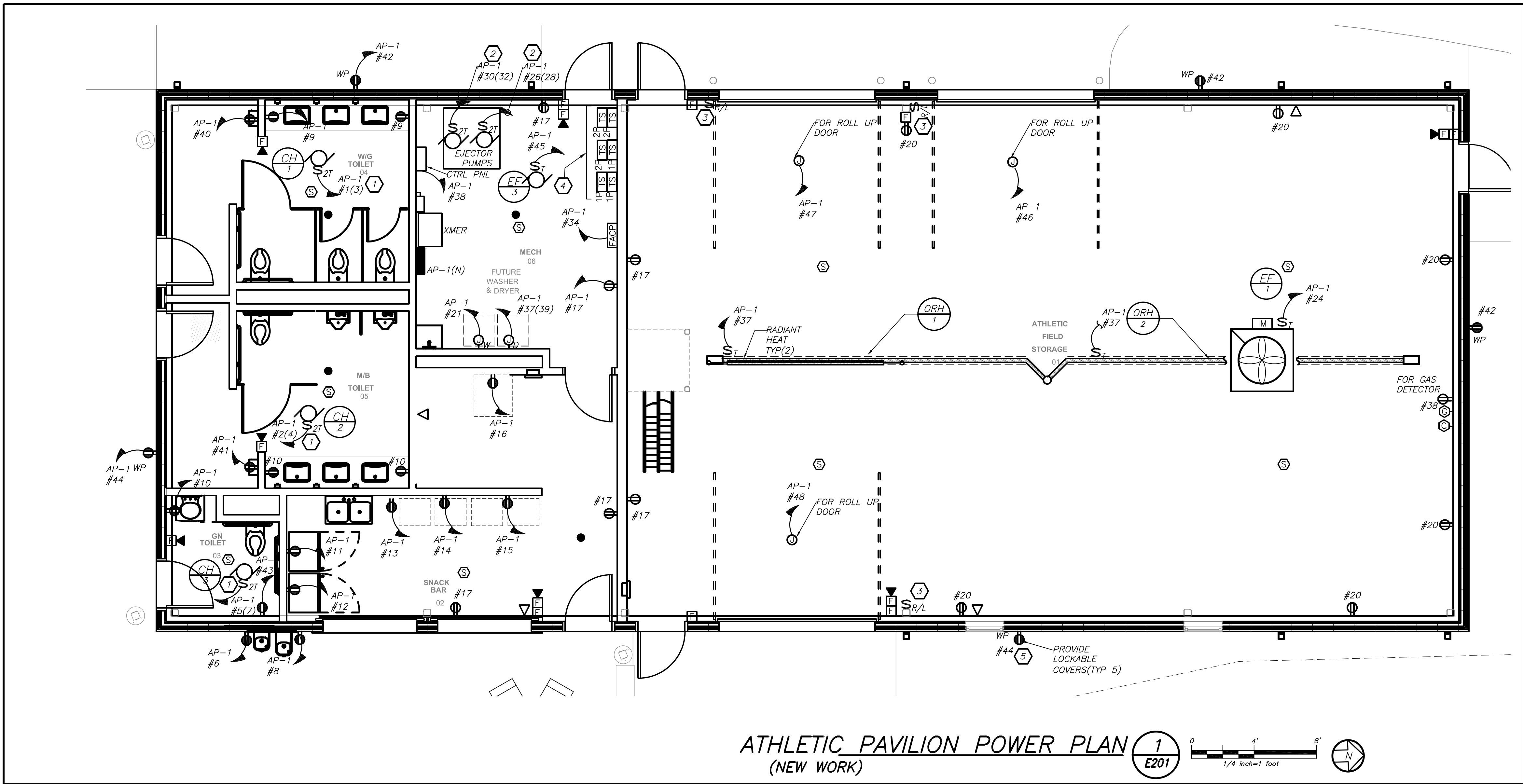
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Sheet Title

ATHLETIC
PAVILION POWER
& LIGHTING
PLAN

Job No.	2023-1028	Sheet Number
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E201-AP



WORK NOTES:

- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CABINET HEATER MANUFACTURER INDEECO PART #9222U02000C. THIS CONTRACTOR SHALL COORDINATE INSTALLATION WITH GC BEFORE START OF ANY WORK. GC SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING.
- EJECTOR PUMPS LOCATED INSIDE THE PIT. PROVIDE RIGID GALVANIZED CONDUIT FROM CONTROL PANEL TO EJECTOR PUMP LOCATED IN SUMP PIT.
- PROVIDE RAISE/LOW SWITCH FOR ROLL UP DOORS. FINAL MOUNTING LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OR GC BEFORE START OF ANY WORK. EC SHALL PROVIDE ALL INTERCONNECTIONS FOR A COMPLETE OPERATIONAL SYSTEM.
- PROVIDE TWIST TIMER SWITCH TO CONTROL EF-1, EF-2, EF-3, CH-1, CH-2 AND CH-3. REFER TO DRAWING E001 FOR ADDITIONAL INFORMATION.
- COORDINATE EXACT MOUNTING LOCATION WITH OWNER AND ARCHITECT BEFORE THE START OF ANY WORK.
- REMOTE PHOTO CELL SHALL CONTROL ALL FIXTURES ON THE SAME SIDE OF BUILDING.

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4	09/16/2024	ISSUE FOR BID
3	10/27/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

ATHLETIC PAVILION SITE PLAN

Job No.
2023-1028

Date _____

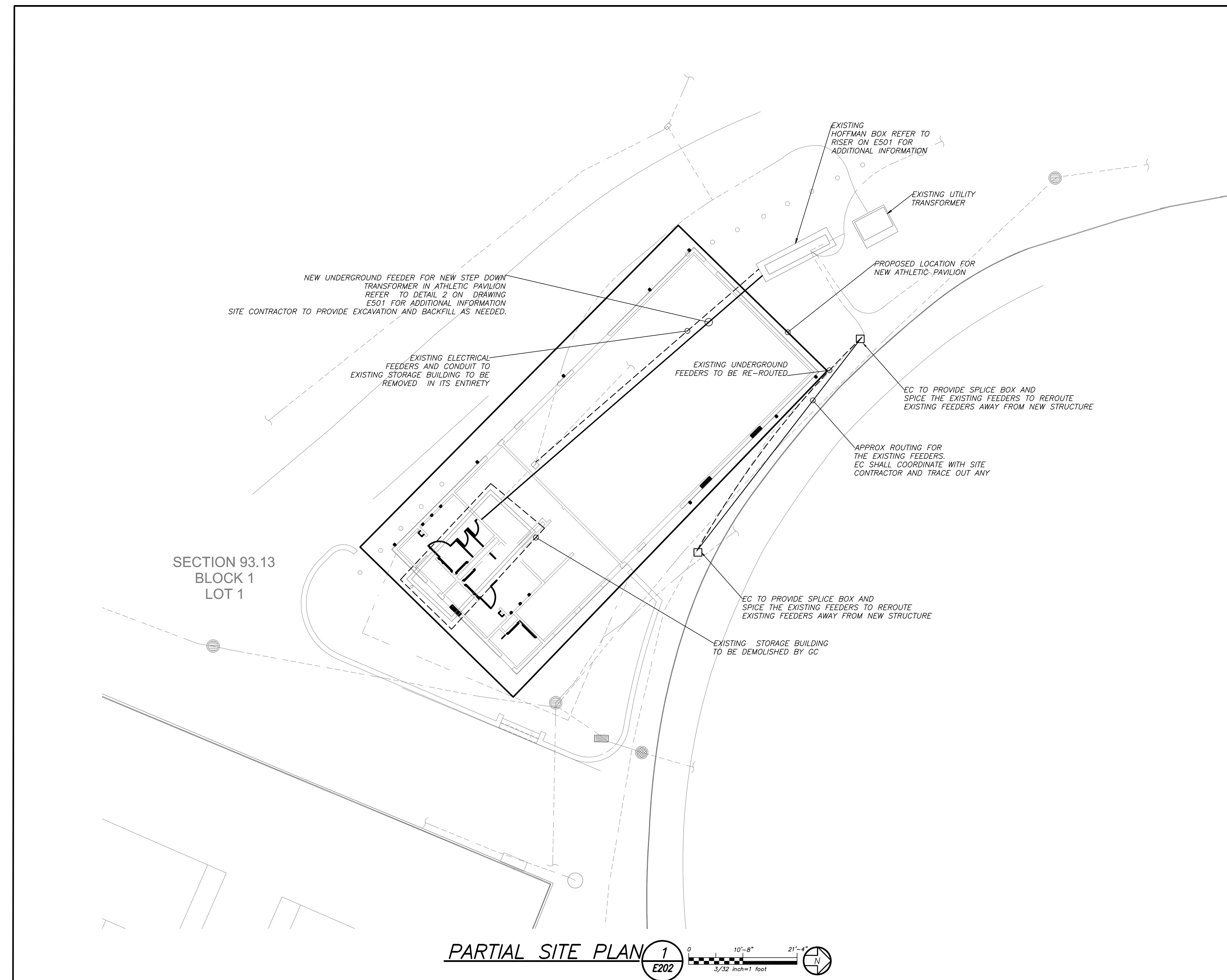
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Key Plan

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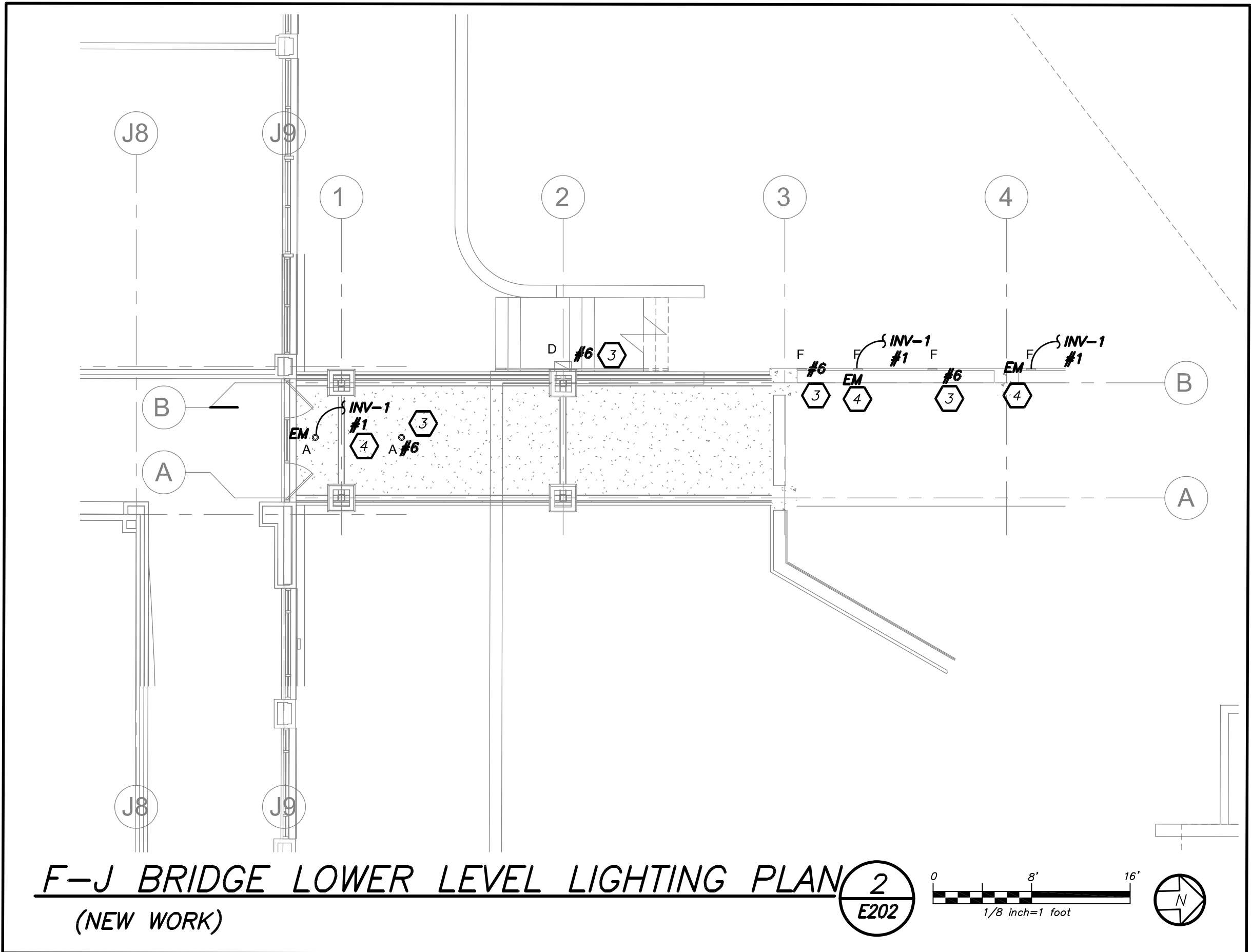
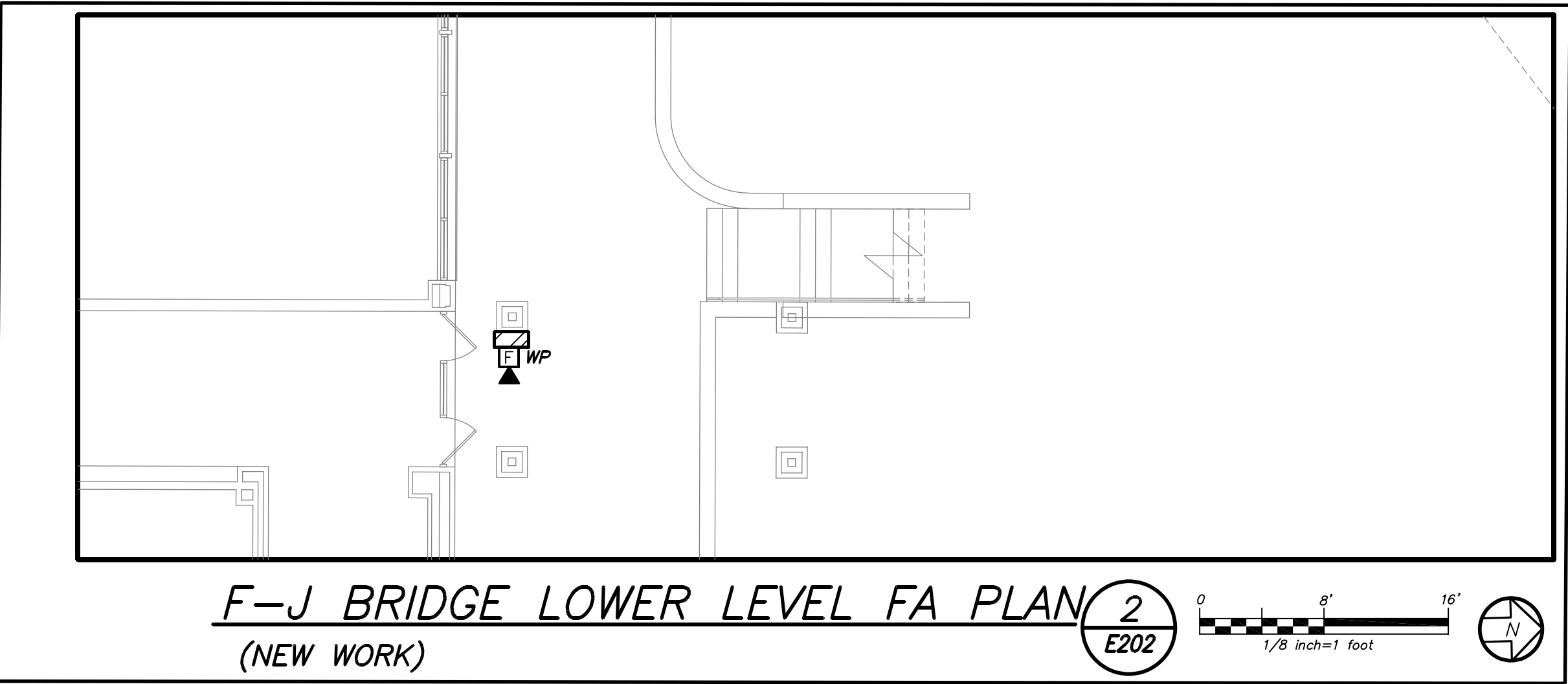
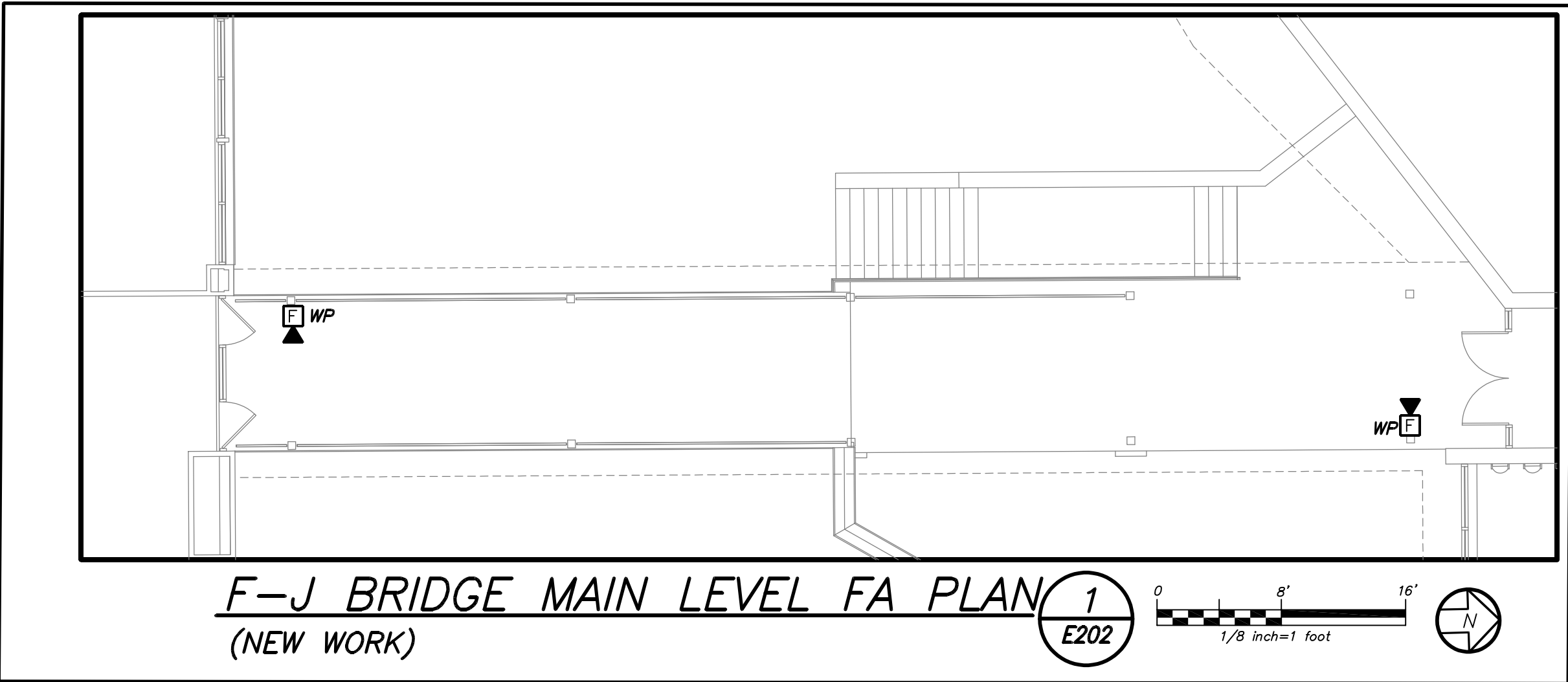
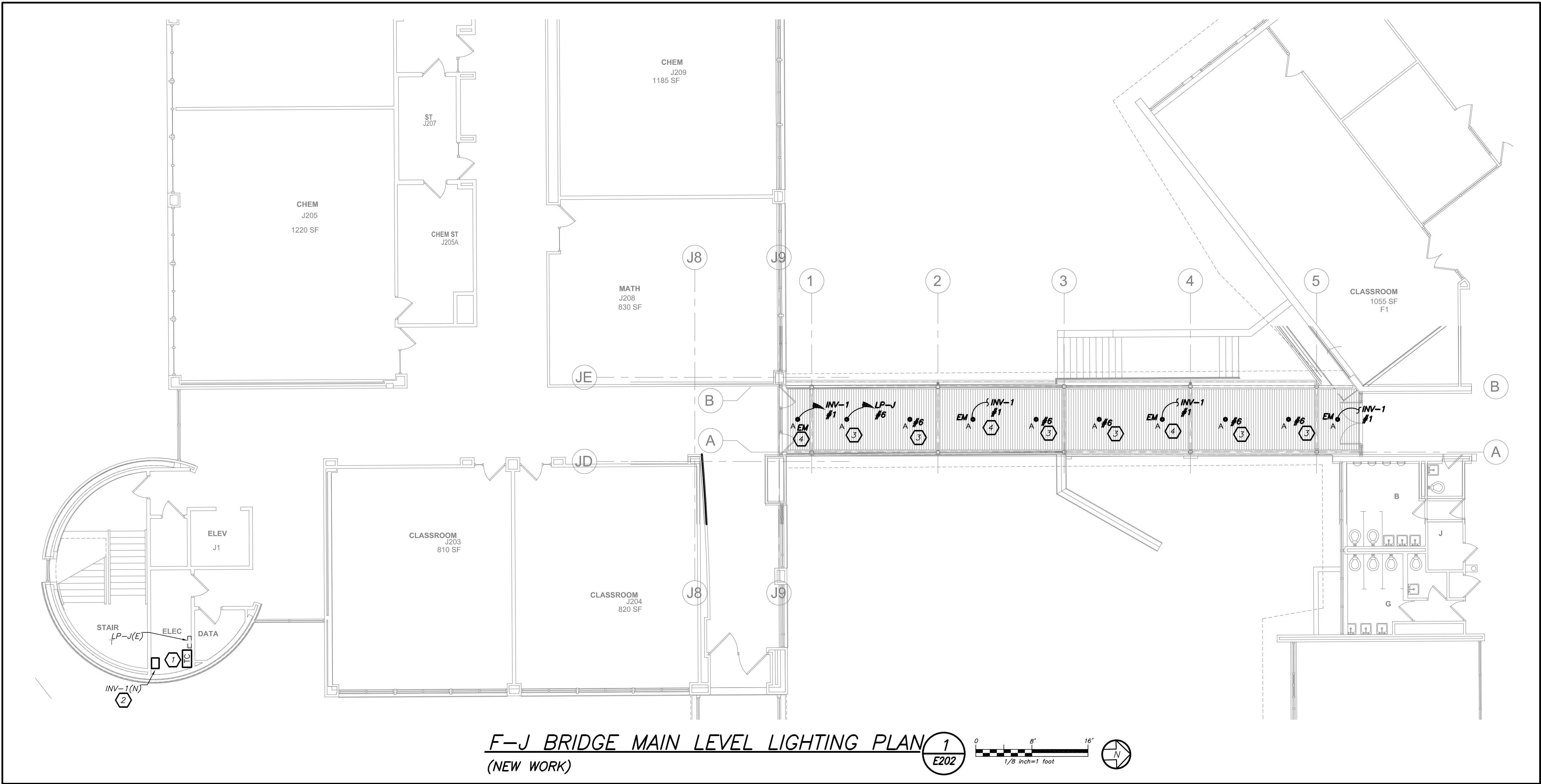
Sheet Title

HORACE GREELEY
F-J BRIDGE
LIGHTING & FA
PLAN

Job No. 2023-1028	Sheet Number
Date 09/16/2024	
Scale AS NOTED	E203-HG
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WORK NOTES:

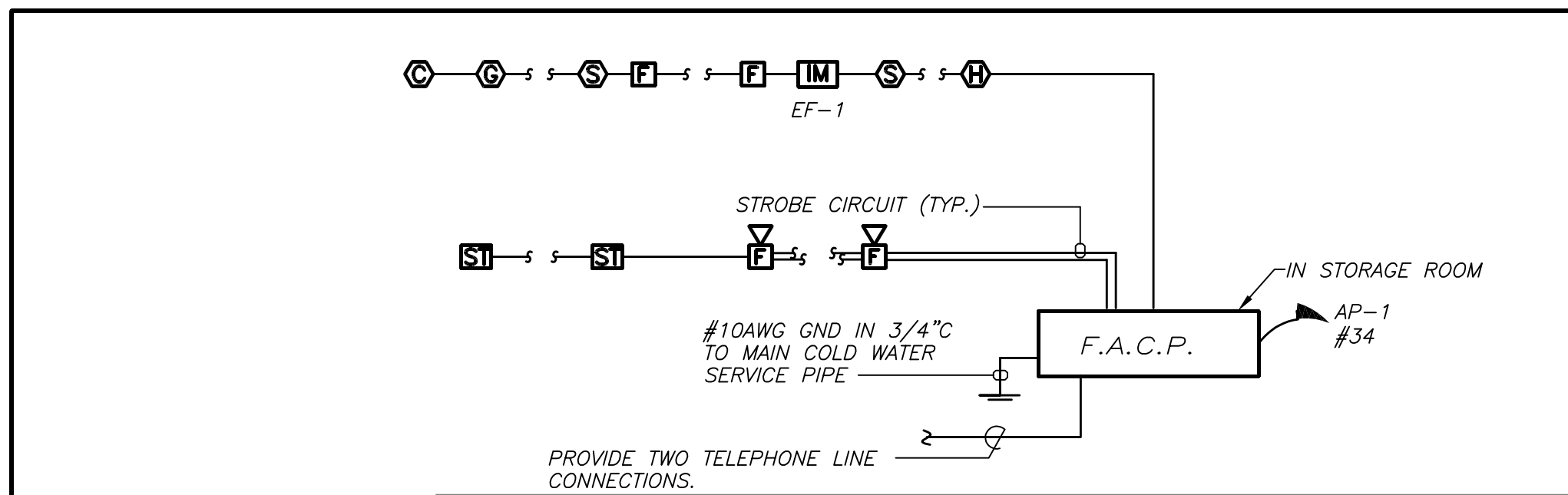
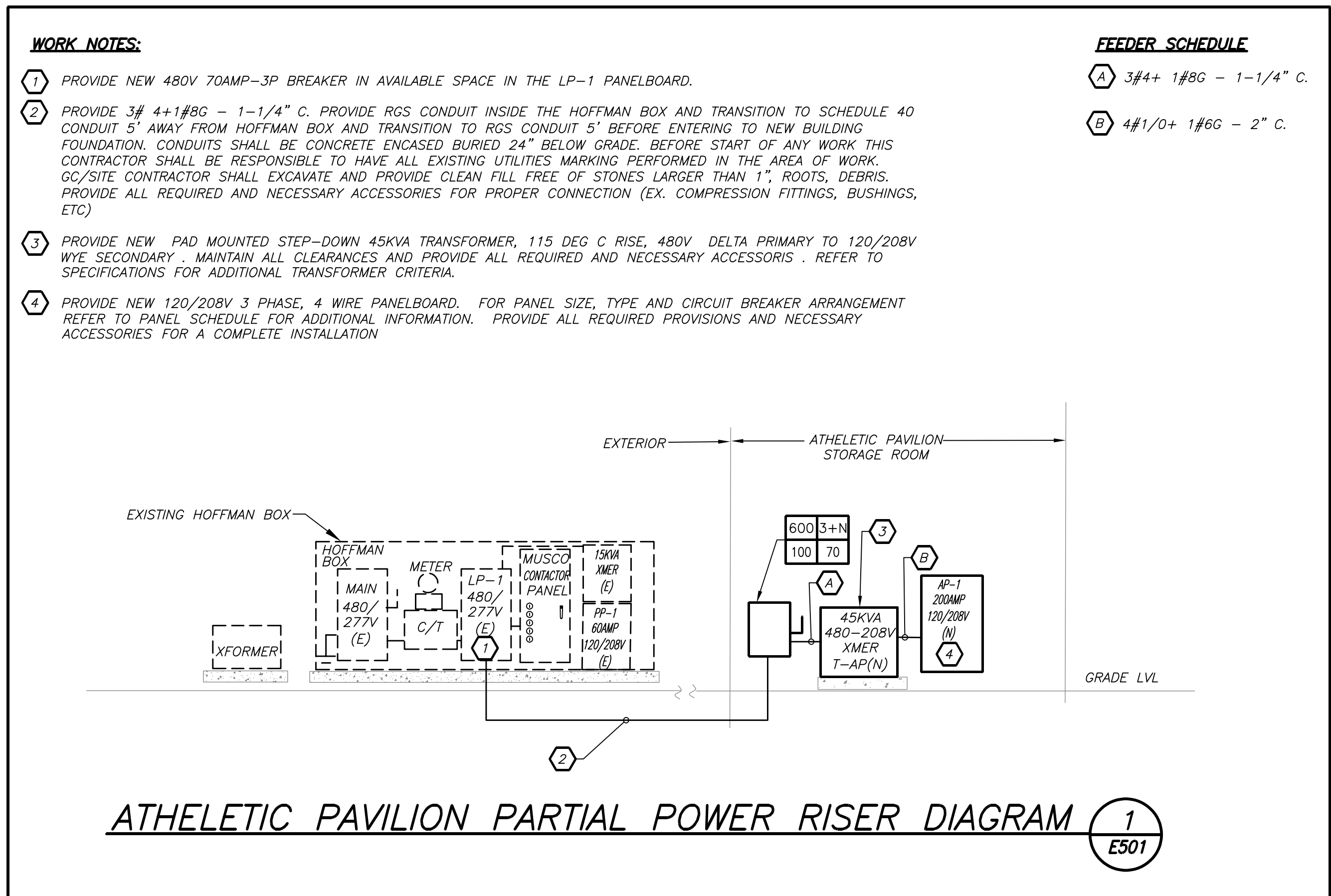
- 1 EC TO PROVIDE NEW TIME CLOCK TO CONTROL NEW F-J BRIDGE LIGHTING. REFER TO E201 FOR SPECIFICATIONS AND PART NUMBER. EC TO COORDINATE WITH SCHOOL BEFORE PROGRAMMING THE TIME CLOCK FOR ANY SPECIFIC REQUIREMENTS.
- 2 PROVIDE NEW INVERTER SIMILAR TO EVENLITE #LM52-LC-V1-4-WB
- 3 PROVIDE (2) NEW 20AMP-1P BREAKER IN THE AVAILABLE SPACE IN LP-J PANELBOARD. PROVIDE 2#12+1#12G TO INDICATED PANELBOARD



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BUILDING F-J BRIDGE LIGHTING FIXTURE SCHEDULE				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
"A"	RECESSED EXTERIOR	20W LED	EXTERIOR RECESSED STAINLESS STEEL DOWN LIGHT WITH WIDE BEAM DISTRIBUTION	BEGA LIGHTING CAT.# B-24-285-35
"F"	STEP LIGHT	9.2W LED	ALUMINUM LED STEP LINE LANDSCAPE LUMINAIRES WITH CONSTRUCTION MOUNTING KITS AND EARLY INSTALLATION OPTIONS	PHILIPS LIGHTING CAT# HADCO RSC2-A-D-G2-RS2-HO
"D"	SURFACE MTD.	13W LED	LED WALL LIGHT IMPACT RESISTANCE OVER DOOR, 3000K COLOR TEMP, GENE1	SIGNIFY LIGHTING CAT#SWL-WW-G1-PCB-1-BZ

ATHELETIC PAVILION LIGHTING FIXTURE SCHEDULE				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
"A"	RECESSED	19W LED	CEILING DOWN LIGHT ROUND 3500K COLOR TEMP REGULAR OUTPUT, PRISMATIC LENS, 0-10V DIMMING	EUREKA LIGHTING CAT.# TANGRAM 4580-LED-35-90-120V-DV-PRL-WHE
"A"	RECESSED	19W LED	SAME AS TYPE "A" WITH INTEGRAL BATTERY BACK UP	EUREKA LIGHTING CAT.# TANGRAM 4580-LED-35-90-120V-DV-EMB-PRL-WHE-3981EA
"B"	SURFACE MTD.	85W LED	8' LINEAR UTILITY LED 3500K COLOR TEMP, 0-10V DIMMING, WITH LEVITON OSFHU OCCUPANCY SENSOR	MERCURY LIGHTING CAT#LW104-B-8500-35K-A-0-10V-UNI-01
"B"	SURFACE MTD.	85W LED	SAME AS TYPE "B" WITH INTEGRAL BATTERY BACK UP	MERCURY LIGHTING CAT#LW104-B-8500-35K-A-0-10V-UNI-EM10-01
"C"	SURFACE MTD.	20W LED	18" LINEAR LED DOUBLE ACRYLIC DIFFUSER, BRUSHED NICKEL	MAJESTIC LIGHTING CAT#V1247-20W-3000K-80CRI
"D"	SURFACE MTD.	13W LED	LED WALL LIGHT IMPACT RESISTANCE OVER DOOR, 3000K COLOR TEMP, GENE1	SIGNIFY LIGHTING CAT#SWL-WW-G1-PCB-1-BZ
"D"	SURFACE MTD.	13W LED	SAME AS TYPE "D" WITH INTEGRAL BATTERY BACK UP	SIGNIFY LIGHTING CAT#SWL-WW-G1-PCB-1-BZ-EM
"E"	SURFACE MTD.	13W LED	SURFACE MOUNTED WALL LANTERN WITH SYMMETRICAL DISTRIBUTION STRAIGHT SHADE, 2 CONE, 3000K COLOR TEMP	LIGMAN LIGHTING CAT#UDU-41WCOB-2-W35-01-120
☼	CEILING /WALL MOUNT	1-5W LED UNV.	LED EXIT LIGHTS, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE BATTERY.	ENCORE LIGHTING #LSE-6-R-1/U



FIRE ALARM RISER DIAGRAM 2 E501 N.T.S.

FIRE ALARM RISER NOTES:

- FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
- PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
- IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.
- UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):
HORN WIRING - #16 AWG TWISTED
STROBE WIRING - #14 AWG TWISTED
SIGNAL WIRING - #14 AWG TWISTED/SHIELDED
THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
A. A MINIMUM TEMPERATURE RATING OF 150 C
B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
D. THE COLOR OF THE CABLE SHALL BE RED
E. THE CABLE SHALL BE A TYPE PLP (PLENUM TYPE) WHEN CONDUIT IS USED.
SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.
CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
- PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
- STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1-3 HZ.
- WALL MOUNTED HORN/STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THEY SHALL BE A MAXIMUM OF 80 INCHES ABOVE FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
- SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING "ATC" SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
- AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
- ALL PULL STATIONS SHALL BE PROVIDED WITH CLEAR PROTECTIVE LEXAN COVER. COVER SHALL BE AS MANUFACTURED BY SAFETY TECHNOLOGY INTERNATIONAL INC. CAT. #STI 1100 STOPPER II.
- COORDINATE FA WORK WITH FA VENDOR.
- VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
- ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
- PROVIDE WIRE GUARDS FOR ALL FIRE ALARM DEVICES LOCATED IN GYM'S, BOILER ROOMS, LOCKER ROOMS AND MECHANICAL EQUIPMENT ROOMS.
- CARBON MONOXIDE AND GAS LEAK DETECTOR SHALL RING LOCAL TROUBLE BELL AT FIRE ALARM CONTROL PANEL FOR SUPERVISORY CONDITION ONLY.
- THE CARBON MONOXIDE DETECTOR SHALL HAVE AN SOUNDER BASE AND INITIATE A SUPERVISORY SIGNAL WHEN 70 PARTS PER MILLION (ppm) ARE REACHED WITHIN 60 TO 240 MINUTES OR 150ppm ARE REACHED WITHIN 10 TO 50 MINUTES, OR 400ppm ARE REACHED WITHIN 4 TO 15 MINUTES AS REQUIRED BY UL 2034.
- THE GAS DETECTOR SHALL MONITOR PROPANE (LP), AND NATURAL (METHANE) TYPE HEATING GASES. THE GAS DETECTOR SHALL INITIATE A SUPERVISORY SIGNAL WHEN 25% LOWER EXPLOSIVE LIMIT (LEL) IS REACHED AS REQUIRED BY UL 1484.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.

NEW ELECTRICAL PANEL SCHEDULE																	
PANEL: AP-1		MOUNTING: SURFACE		X	MAIN LUGS ONLY			MAIN C BKR:		GROUND BUS: X				X			
208Y120, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH	DOUBLE LUGS			200A/3P		ISOLATED GROUND BUS:							
42 000MIN A.I.C. SYM					IN MCC			FEED THRU LUG		MAIN BUS -		TVSS:					
NEUTRAL: 100%								SHUNT TRIP MAIN		150A		NUMBER OF POLES: 42					
CKT No.	TRIP (AMP)	LOAD	WIRE	CND.	KVA / PHASE			KVA / PHASE CND.			WIRE	LOAD	TRIP (AMP)	CKT No.			
					(IN.)	A	B	C		A	B	C	(IN.)				
1	2	CH-1	2#12+1#12G	3/4	0.80				0.80	3/4	2#12+1#12G	CH-2	2	2			
3	20																0.80
5	2	CH-3	2#12+1#12G	3/4	0.80				0.50	3/4	2#12+1#12G	WATER FOUNTAIN	20	4			
7	20																0.80
9	20	BATH GFI	2#12+1#12G	3/4		0.34			0.54	3/4	2#12+1#12G	BATH GFI	20	6			
11	20	REFRIGERATOR	2#12+1#12G	3/4				0.50	0.50	3/4	2#12+1#12G	REFRIG	20	12			
13	20	FUTURE LOAD	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	FUTURE LOAD	20	14			
15	20	FUTURE LOAD	2#12+1#12G	3/4		0.50			0.80	3/4	2#12+1#12G	ICE MACHINE	20	16			
17	20	RECEP	2#12+1#12G	3/4				1.08	1.20	3/4	2#12+1#12G	LIGHTING	20	18			
19	20	LIGHTING	2#12+1#12G	3/4	0.90				1.08	3/4	2#12+1#12G	RECEP	20	20			
21	20	FUTURE WASHER	2#10+1#10G	3/4		1.00			0.40	3/4	2#12+1#12G	UH-A	20	22			
23	25	EF-2	2#10+1#10G	3/4				0.75		0.75	3/4	2#12+1#12G	EF-1	20	24		
25	3	ELEC HOT WATER	2#10+1#10G	3/4	3.00				0.50	3/4	2#12+1#12G	EJEC PUMP	2	26			
27																3.00	
29	30							3.00		0.50	3/4	2#12+1#12G		20	28		
31	20	CP-1	2#12+1#12G	3/4	0.40				0.50	3/4	2#12+1#12G	EJEC PUMP	2	30			
33	20	MEZZ RECEP	2#12+1#12G	3/4		0.54			0.50	3/4	2#12+1#12G	FIRE ALARM PANEL	20	32			
35	20	SPARE	-	-						-	-		-	20	34		
37	2	FUTURE DRYER	2#6+1#10G	1	1.00				0.20	3/4	2#12+1#12G	CONTROL PUMP	20	36			
39	60															1.00	
41	20	HAND DRYER	2#12+1#12G	3/4				0.50		0.70	3/4	2#12+1#12G	EXT RECEP	20	42		
43	20	HAND DRYER	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	EXT RECEP	20	44			
45	20	EF-3	2#12+1#12G	3/4		0.60			0.50	3/4	2#12+1#12G	ROLL UP DOOR	20	46			
47	20	ROLL UP DOOR	2#12+1#12G	3/4		0.50			0.50	3/4	2#12+1#12G	ROLL UP DOOR	20	48			
49	20	SPARE	-	-						-	-		SPARE	20	50		
51	20	SPARE	-	-						-	-		SPARE	20	52		
53	20	SPARE	-	-						-	-		SPARE	20	54		
SUBTOTALS					7.90	7.78	7.13		4.58	4.54	4.65		SUBTOTALS				
TOTAL LOADS					12.5 KVA	PHASE A						LIGHTING:	2.10 KVA				
					12.3 KVA	PHASE B						RECEPTACLE:	0.00 KVA				
					11.8 KVA	PHASE C						KITCHEN:	0.00 KVA				
TOTAL CONN. LOAD					36.6 KVA	102.0	A					MOTOR:	30.44 KVA				
TOTAL DEMAND LOAD					36.6 KVA	102.0	A					POWER:	4.04 KVA				
												TOTAL:	36.58 KVA				

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PAVILION RISER &
SCHEDULE

Job No.

Sheet Number

2023-1028

Date

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