

BUILDING CODE ANALYSIS

CODE JURISDICTION:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2018 NATIONAL ELECTRICAL CODE (NEC)

MIXED USE AND OCCUPANCY:
NON-SEPARATED OCCUPANCIES (PER SECTION 508.3)

OCCUPANCY:
B: BUSINESS
R-2: RESIDENTIAL
S-1: STORAGE

OCCUPANT LOADS:
BUSINESS= 17
RESIDENTIAL= 16
STORAGE= 19
FITNESS= 8
MECHANICAL= 3
TOTAL OCCUPANT LOAD= 63

CONSTRUCTION TYPE:
CONSTRUCTION TYPICAL OF TYPE V-B.

AUTOMATIC SPRINKLER SYSTEM:
WILL BE PROVIDED

BUILDING AREA:
ACTUAL TOTAL BUILDING: 10,500 SF
ALLOWED [IBC 506.1]: 28,000 SF

BUILDING HEIGHT:
ACTUAL HEIGHT: 34'-0" AFF. 1 STORY
ALLOWABLE HEIGHT: 60'-0", 2 STORIES [IBC 504:]

BUILDING SETBACKS IN THE CSR ZONE DISTRICT:
FRONT 25'-0"
SIDE 5'-0"
REAR 10'-0"
MAXIMUM HEIGHT IS 65 FT.

FIRE RESISTANCE RATING REQUIREMENTS:
(FOR TYPE V-B CONSTRUCTION) [IBC TABLE 601]
STRUCTURAL FRAME: 0 HRS
BEARING WALLS, EXTERIOR: 0 HRS
BEARING WALLS, INTERIOR: 0 HRS
NON-BEARING WALLS, EXTERIOR: 0 HRS*
*1 HR IF < 10 FT FIRE SEPARATION DISTANCE [IBC TABLE 602]
NON-BEARING WALLS, INTERIOR: 0 HRS
FLOOR CONSTRUCTION: 0 HRS
ROOF CONSTRUCTION: 0 HRS

EXIT TRAVEL DISTANCE:
FOR R-2 OCCUPANCY:
COMMON PATH OF EGRESS TRAVEL: 125 FT WITH SPRINKLER SYSTEM, IBC TABLE 1014.3
EXIT ACCESS TRAVEL DISTANCE: 250 FT WITH SPRINKLER SYSTEM, IBC TABLE 1016.2

FOR B OCCUPANCY:
COMMON PATH OF EGRESS TRAVEL: 100 FT WITH SPRINKLER SYSTEM, IBC TABLE 1014.3
EXIT ACCESS TRAVEL DISTANCE: 300 FT WITH SPRINKLER SYSTEM, IBC TABLE 1016.2

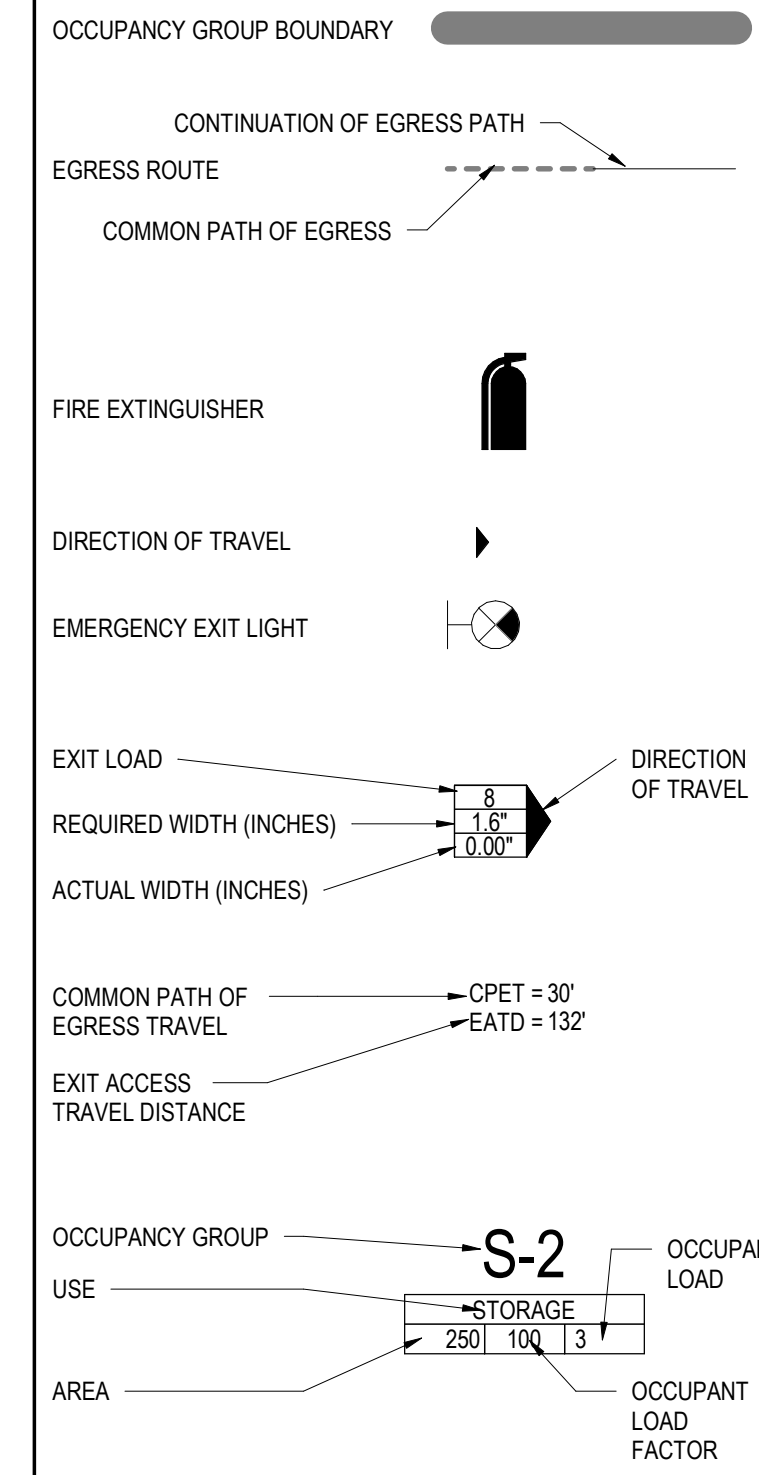
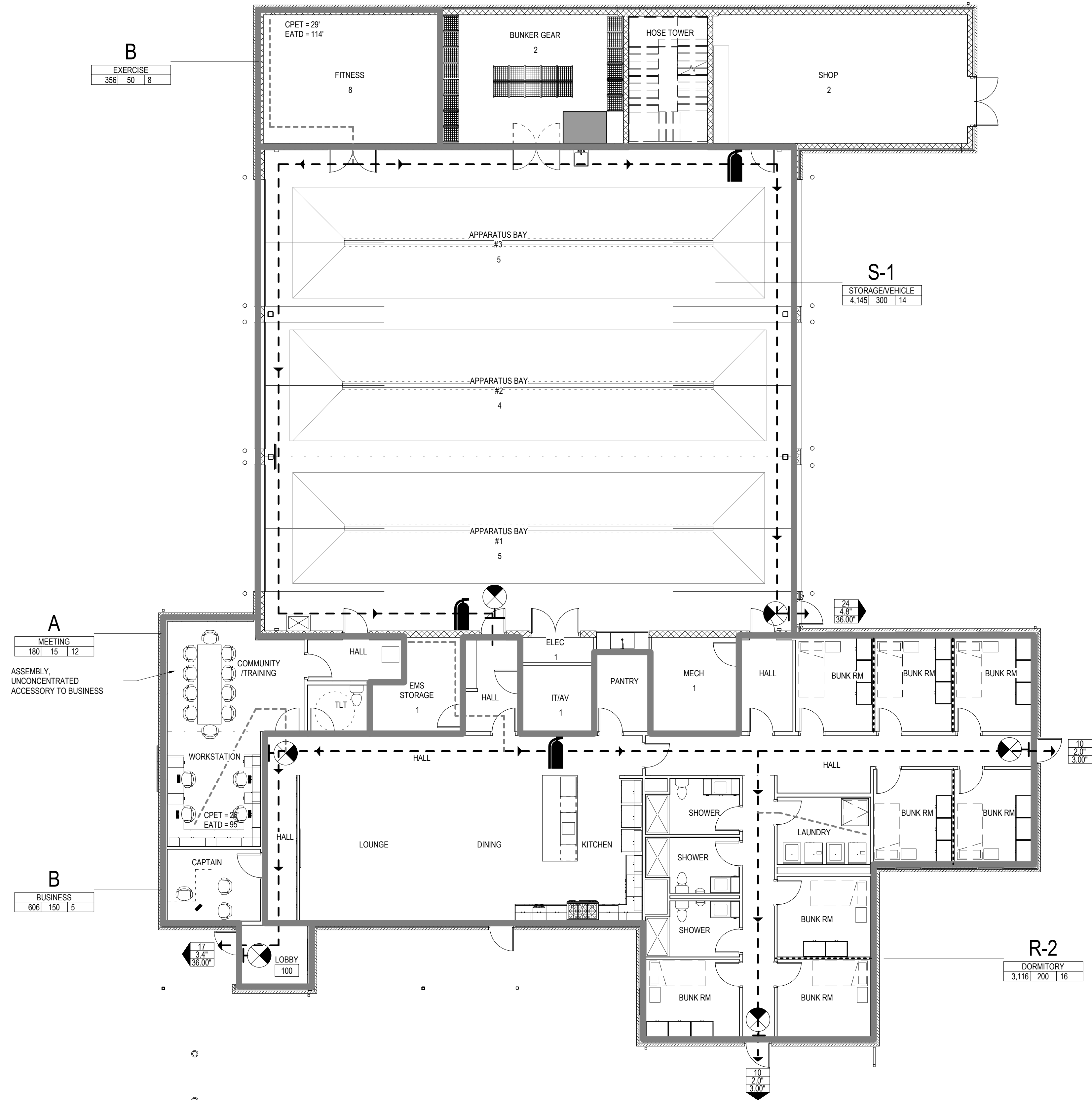
FOR S-1 OCCUPANCY:
COMMON PATH OF EGRESS TRAVEL: 100 FT WITH SPRINKLER SYSTEM, IBC TABLE 1014.3
EXIT ACCESS TRAVEL DISTANCE: 250 FT WITH SPRINKLER SYSTEM, IBC TABLE 1016.2

PLUMBING FIXTURE COUNT:

OCCUPANCY TYPE	OCC LD	MEN	WOMEN	W.C.S		LAV		SHOWER		DF		SS	
				REQ'D	PROV	REQ'D	PROV	REQ'D	PROV	REQ'D	PROV		
RESIDENTIAL (R-2)	16	8	8	3/3		2/2		2	3	-	-	-	-
BUSINESS (B)	17	9	9	3/3		2/2		-	-	1	1	1	2
OTHER	30	15	15	6/6		3/3		-	-	-	-	-	-

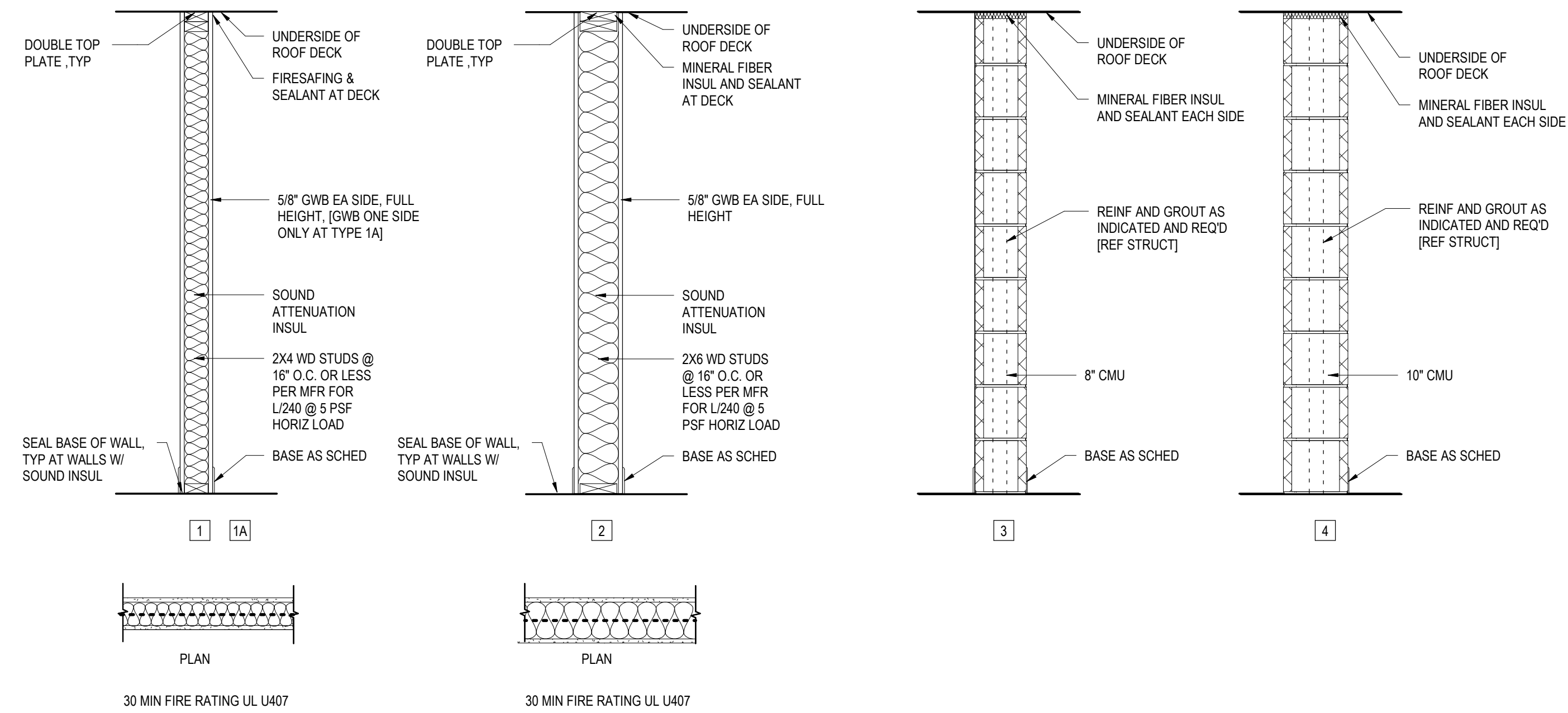
* FITNESS, STORAGE, MECHANICAL

TOTALS	M/W	UNISEX	2/2	4	1/1	4	2	3	1	1	1	2
TOTAL FOR BUILDING			4		4	2	3	1	1	1	1	2



LIFE SAFETY PLAN
1
G1-1
1/8" = 1'-0"
NORTH

WALL TYPES



GENERAL NOTES:

1. WALL TYPES ARE KEYED FROM FLOOR PLANS. PROVIDE FIRE BLOCKING AS REQUIRED PER IBC SEC. 717.2.
2. SEE DOOR SCHEDULE FOR CONDITIONS AT DOORS.
3. REFER TO STRUCTURAL DRAWINGS FOR MULTI-STUD AND SPACING CONDITIONS FOR BEARING WALLS AND SHEAR WALLS.
4. SEE FINISH SCHEDULE FOR APPLIED FINISHES.
5. BACKER BOARD LOCATIONS ARE PER DETAILS AND CONTINUOUS ON CEILING AND WALLS IN SHOWER AREAS.

GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL CONTACT MARK BARSLUND, CITY OF GRAND JUNCTION'S DEVELOPMENT INSPECTOR, AT (970) 201-1362, A MINIMUM OF 72 HOURS IN ADVANCE, FOR A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING WORK
- Locations of existing utilities shown on these plans are approximate only. Contractor is to contact affected utility for specific locations before digging. The Contractor shall notify the engineer if unanticipated conditions are encountered during completion of the work which require modifications to the contract drawings. The engineer can be reached at 970-242-7540.
- Contractor shall give 48-hour notice to all authorized inspectors, superintendents, or persons in charge of public and private utilities affected by his operations prior to commencement of work. Contractor shall assure himself that all construction permits are current.
- Contractor shall confine his construction operations to the right-of-way, easements, and lots, as shown on plans and plat. Any damage to private facilities outside these limits shall be repaired by the Contractor at no expense to the Owner.
- All road construction, related work, materials, performance and quality of work provided shall conform to the requirements of the City of Grand Junction Standard Specifications and Drawings and the applicable sections of the most current edition of the Division of Highways, State of Colorado Standard Specifications for Road and Bridge Construction, Colorado Standard Plans, Division of Highways M & S Standards.
- Contractor shall familiarize himself with the geotechnical testing requirements of the City of Grand Junction. The results of the required types of tests and numbers of passing tests shall be furnished to the Engineer for verification before final acceptance by the Owner will be granted. All failing tests shall be brought to the immediate attention of the Engineer and retests shall be performed until passing results are obtained. All utility lines, including service lines falling shall be tested.
- Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for utility trench back fill unless otherwise approved by the Engineer.
- All utility installations are to be performed in accordance with the City of Grand Junction Standard Specifications for the Construction of Underground Utilities and Standard Details.
- All sewer lines must be tested and approved PRIOR to street construction. Contractor is required to notify the Owner's representative PRIOR to testing. The Owner's representative must be present to witness testing of water and sewer lines or the City will not approve the installation.
- In the event of a discrepancy between the construction notes contained herein and the notes and details in the City of Grand Junction Standard Contract Documents for Capital Improvements Construction manual, the City's manual shall control.
- All work within the City of Grand Junction Right-of-Way shall require a "Work in the Right-of-Way" Permit. All construction work shall be in accordance with the latest edition of the City of Grand Junction Standard Specifications.
- All concrete in driveways to include 8-inch minimum, Class VI ABC, unless otherwise noted.
- Finished ground surface shall drop at least six inches within the first ten feet away from the structure. Where impermeable surfaces (i.e. sidewalks, pavements, etc) are adjacent to the structure the grade can be reduced to 2.5-inches (ADA) within the first ten feet away from the structure.
- All roof drains that do not connect directly to site storm sewer system shall be provided with splash blocks that extend beyond the building foundation excavation zone.
- The Contractor shall be required to comply with the requirements and recommendations of Huddleston-Berry report titled Geotechnical and Geologic Hazards Investigation Project # 00208-0112 dated March 26, 2020, unless otherwise noted.
- All fill, building, concrete or asphalt pavement areas shall be stripped of a minimum 6-inches of topsoil.

PAVING CONSTRUCTION NOTES

- All road widths and radii are to flow line unless noted otherwise. Any "spot" design elevations are to flow line of curb and gutter unless otherwise noted.
- Prior to pavement placement, the pavement prism should be stripped of all unsuitable materials. It is recommended that the subgrade soils be scarified to a depth of 12-inches, moisture conditioned, and recompacted to a minimum of 95% of the standard Proctor maximum dry density, within ±2% of optimum moisture as determined by AASHTO T-99.
- Contractor to protect existing utilities and appurtenances. Manholes, drainage inlets, utility lines, etc., damaged, covered, or filled with dirt or debris by the Contractor shall be cleaned and repaired at no expense to the Owner.
- Where proposed pavement is to match existing pavement, existing pavement is to be square cut, full base thickness is to be brought to match line and existing surface is to be tack-coated before proposed surface is placed.
- All handicap ramps, sidewalks and curb and gutter are to be constructed where indicated on the plans and in accordance with The City of Grand Junction requirements.
- Curb, gutter, and drainage pans are to have expansion joints at each change in horizontal alignment of curb and gutter, but in no case at a greater distance apart than 100 feet. Locate dummy grooved joints between expansion joints at intervals not exceeding 10 feet. Where length of pour precludes 10 foot intervals, the end sections may be less than 10 feet but not less than 5 feet.
- PAVEMENT SECTION: See Table To Right of this note and call outs provided on construction plan sheets.
- Site subsurface investigation encountered soft soils within existing subgrade. If such soils are encountered during excavation subgrade stabilization may be required consisting of a layer of geotextile and/or geogrid in conjunction with up to 30-inches of granular fill (pit run or equivalent). Project's geotechnical engineer shall be contacted to provide specific recommendations for subgrade stabilization based upon the actual subgrade conditions during construction.

UTILITIES AND AGENCIES		
CITY UTILITIES DIRECTOR	RANDI KIM	244-1429
CITY OF GRAND JUNCTION PUBLIC WORKS	TRENT PRALL	256-4047
CITY OF GJ DEVELOPMENT INSPECTOR	MARK BARSLUND	201-1362
MESA COUNTY STORMWATER	JOSH MARTINEZ	773-4762
UTE WATER	JIM DAUGHERTY	242-7491
GRAND VALLEY IRRIGATION	PHIL BERTRAND	242-2762
XCEL ENERGY	JOHN SALAZAR	244-2681
CENTURY LINK	CHRIS JOHNSON	244-4333
SPECTRUM	JOHN VALDEZ	245-8750

WATER LINE CONSTRUCTION

- CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ALL BACKFLOW PREVENTION EQUIPMENT AND ABOVE GROUND ENCLOSURES. Double Check Detector Assembly shall be "Watts" Series L709DCCA assemblies or FEBCO Masterseries 876VST (N-Pattern), or Ute Water Approved equal.
- Above Ground Enclosures shall be as manufactured by Aqua Shield or WATTS or approved equal and be aluminum, insulated with freeze protection, heated, with service access and mounted on a 4" minimum thick concrete slab. Aqua Shield #NBFP8 or Watts Model # WB-N6 or Ute Water approved Equal
- All water line construction shall be constructed in accordance with the Ute Water District Standards and Specifications.
- Contractor shall notify the Ute Water Conservancy 48 hours prior to the beginning of construction.
- All trenches shall be compacted to 95% within 2% of optimum moisture content, as determined by AASHTO T-99. Contractor shall be required to perform all necessary compaction tests through a certified soils lab.
- Minimum cover required over top of new waterlines is 4'-6".
- All water mains to be DR-18 PVC, Class 150 conforming to AWWA C-900.
- Ductile Iron fittings to conform to AWWA C-110.
- Fire Hydrants shall conform to AWWA C-502, Mueller Super Centurian or Kennedy Guardian.
- All materials labor and equipment required for testing and disinfection of water lines shall be furnished by Contractor. Disinfection of water lines shall conform to AWWA C-651-86 or latest revision thereof. No separate pay.
- All pipe bends/angle points, both horizontal and vertical, as called for on the plans are to be thrust blocked per Ute Water Conservancy District details and Technical Specifications.
- Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for water line trench backfill unless otherwise approved by the Engineer.
- All Ute Water Mains are to be bedded per City of Grand Junction Standards.
- All customer water service lines 2" or less shall be 200 psi rated "Pure Core" Blue HDPE, or approved equal.

STORM SEWER CONSTRUCTION NOTES

- All storm sewer line construction shall be in accordance with the City of Grand Junction Standards and Specifications.
- All Reinforced Concrete storm sewer pipe shall conform to ASTM Standard Specifications, C-76, Class III unless otherwise noted.
- All polyvinyl chloride (PVC) pipe and fittings shall conform to ASTM Standard Specifications, D3034 and F679, SDR-35 unless otherwise noted.
- All High Density Polyethylene (HDPE) pipe and fittings shall be smooth bore and shall conform to the following:
 12 inch to 36 inch shall meet AASHTO M294
 42 inch to 48 inch shall meet AASHTO MP6
 All HDPE pipe up to 30" shall be backfilled to springline with Class-6.

FUGITIVE DUST CONTROL PLAN

- Before stripping of the site preparation for overlot grading, the surface is to be pre-wet to control dust.
- Any stockpiles of stripping materials are to be periodically sprayed with water or a crusting agent to stabilize potentially wind blown material.
- Haul road both into and around the site are to be sprayed as needed to suppress dust.
- The Storm Water Management Plan and permit shall be obtained and kept onsite before starting any construction work. Gravel pads are to be constructed at the entrances to the site to help in removing mud from the wheels of haulage trucks before they enter onto City streets.
- Trucks hauling import fill are to be tarped to aid in the control of airborne dust.

Automobile Parking Areas
EDLA = 5, Structural Number = 2.75

ALTERNATIVE	PAVEMENT SECTION (Inches)				
	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL
Full Depth HMA	7.0				7.0
A	3.0	10.0			13.0
B	4.0	7.0			11.0
C	3.0	6.0	6.0		15.0
Rigid Pavement		6.0		6.0	12.0

Truck Traffic Areas
EDLA = 30, Structural Number = 3.70

ALTERNATIVE	PAVEMENT SECTION (Inches)				
	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL
Full Depth HMA	9.0				9.0
A	3.0	17.0			20.0
B	4.0	14.0			18.0
C	3.0	6.0	16.0		25.0
Rigid Pavement		6.0		8.0	14.0

SANITARY SEWER CONSTRUCTION NOTES

- All materials and workmanship shall comply to the Standards and Specifications of the City of Grand Junction. The City of Grand Junction reserves the right to accept or reject any materials and or workmanship that does not conform.
- The Contractor shall have one signed copy of plans and a copy of the City of Grand Junction Standards and Specifications at the job site at all times.
- All sanitary sewer pipe shall be PVC SDR-35 (ASTM 3034) unless otherwise specified.
- All sewer lines to be laid to grade utilizing a "pipe laser".
- All connections to the new sewer lines shall be accomplished with full body wyes or tees. Tapping saddles will not be allowed, except as noted.
- All trenches shall be compacted to 95% within 2% of optimum moisture content, as determined AASHTO T-99.
- A minimum of 10 ft. of separation shall be maintained at all times between the waterline and sewer line except at specified crossings.
- The contractor is responsible for all required sewer line testing to be completed in accordance with the City of Grand Junction Standards and Specifications. Final testing to be accomplished only after all other infrastructure has been installed. This includes waterlines, gas lines, electric lines, etc. Testing will be performed after all compaction of street subgrade and prior to street paving. Final lamping will also be accomplished after paving is completed to insure that the line is clean. These tests will be the basis for issuing the initial acceptance of the sewer line extension.
- Manholes shall be constructed as shown on the City of Grand Junction Standard Sanitary Sewer Detail sheets SS-02 of SS-03 as appropriate.
- Water stop gaskets and clamp assemblies are to be furnished and installed at all connections to manholes. No separate pay.
- Metal grade rings are NOT to be used on top of manhole rings to adjust to finish pavement elevations. All adjustments to finish grade on new manholes shall be made using concrete grade rings and grout as shown on the standard details.
- Where sanitary sewers cross under a water line with less than 18 inches of vertical separation, and in all cases where the sanitary sewer crosses over the waterline at any depth, provide total concrete encasement of pipe for a length of 10 feet to either side of the waterline.
- Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for sewer line trench backfill unless otherwise approved by the Engineer.
- To inhibit the movement of ground water through sewer bedding and haunching material, clay cutoff wall of native material are to be constructed approximately 10 feet upstream from each manhole and shown on sanitary sewer plan and profiles.
- Notify the City of Grand Junction 48 hours prior to the construction of the sanitary sewer facilities.
- The contractor shall obtain a City of Grand Junction Street Cut Permit for all work within existing City right-of-way prior to construction.

LEGEND	
—	PROPERTY LINE
- - - - -	ADJACENT PROPERTY LINE
.....	EXISTING EASEMENT
-----	PROPOSED EASEMENT
▭	EXISTING BUILDING
▭	PROPOSED BUILDING
▭	EXISTING CURB/GUTTER
▭	PROPOSED CURB/GUTTER
▭	EXISTING SPILL CURB/GUTTER
▭	PROPOSED SPILL CURB/GUTTER
▭	EXISTING TRANSITION CURB/GUTTER
▭	PROPOSED TRANSITION CURB/GUTTER
▭	EXISTING RETAINING WALL
▭	PROPOSED RETAINING WALL
▭	EXISTING 1-FEET CONTOUR
▭	PROPOSED 1-FEET CONTOUR
▭	EXISTING 5-FEET CONTOUR
▭	PROPOSED 5-FEET CONTOUR
▭	EXISTING ASPHALT
▭	PROPOSED ASPHALT
▭	EXISTING HEAVY DUTY ASPHALT
▭	PROPOSED HEAVY DUTY ASPHALT
▭	EXISTING CONCRETE
▭	PROPOSED CONCRETE
▭	EXISTING HEAVY DUTY CONCRETE
▭	PROPOSED HEAVY DUTY CONCRETE
▭	EXISTING SANITARY SEWER
▭	PROPOSED SANITARY SEWER
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	PROPOSED SANITARY SEWER MANHOLE
⊙	EXISTING SANITARY SEWER CLEANOUT
⊙	PROPOSED SANITARY SEWER CLEANOUT
▭	EXISTING STORM SEWER
▭	PROPOSED STORM SEWER
▭	EXISTING STORM SEWER INLET
▭	PROPOSED STORM SEWER INLET
⊙	EXISTING STORM SEWER MANHOLE
⊙	PROPOSED STORM SEWER MANHOLE
▭	PROPOSED INLINE DRAIN
▭	EXISTING 8" WATER MAIN
▭	PROPOSED 2" DOMESTIC SERVICE
▭	PROPOSED 4" FIRE LINE
⊙	EXISTING FIRE HYDRANT
⊙	PROPOSED FIRE HYDRANT
⊙	EXISTING WATER METER
⊙	PROPOSED WATER METER
⊙	PROPOSED METER/BACKFLOW VAULT
⊙	PROPOSED IRRIGATION MANHOLE
▭	PROPOSED FENCE
▭	EXISTING FENCE
▭	PROPOSED TRAFFIC FLOW
▭	GRADE BREAK
•	ROOF DRAIN (RD)
⊙	STREET LIGHT POLE
⊙	FIRE DEPARTMENT CONNECTION
⊙	PARKING LOT LIGHT
⊙	PROPOSED BUILDING LIGHT
⊙	POWER POLE
FL	FLOWLINE
EOP	EDGE OF PAVEMENT
TOC	TOP OF CONCRETE
TOW	TOP OF WALL
BOW	BOTTOM OF WALL
TBW	TOP BACK OF WALK
TC	TOP OF CURB
BOC	BACK OF CURB
LS	LANDSCAPE AREA
⊙	UTILITY PEDESTALS

BG+
 Architecture
 Interior Design
 Project Management
 622 Road Avenue
 Grand Junction, CO 81501
 970-242-1058 office
 BLITHE GROUP + co.

A • C • G
 AUSTIN CIVIL GROUP, INC.
 Land Planning • Civil Engineering • Development Services
 1030 17th Street, Suite 300 • Grand Junction, Colorado 81501
 970-242-9400

**GRAND JUNCTION FIRE DEPARTMENT
 FIRE STATION #3**

**580 25 1/2 RD GRAND
 JUNCTION, COLORADO 81501**

GENERAL CONSTRUCTION NOTES

FOR CONSTRUCTION

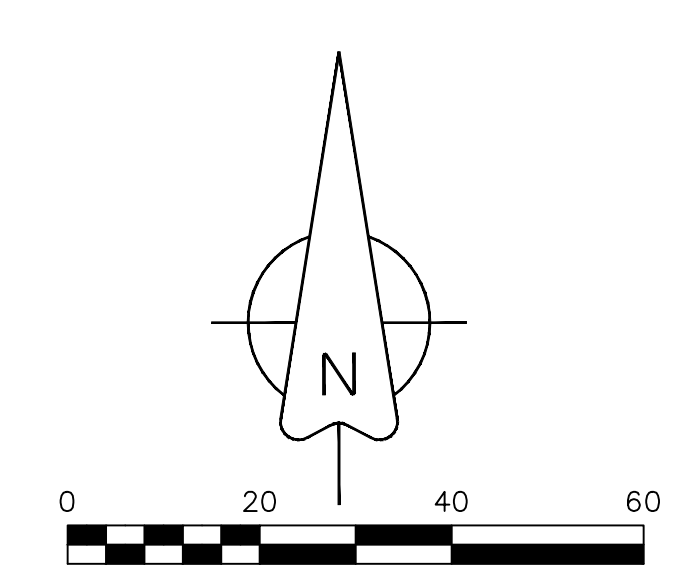
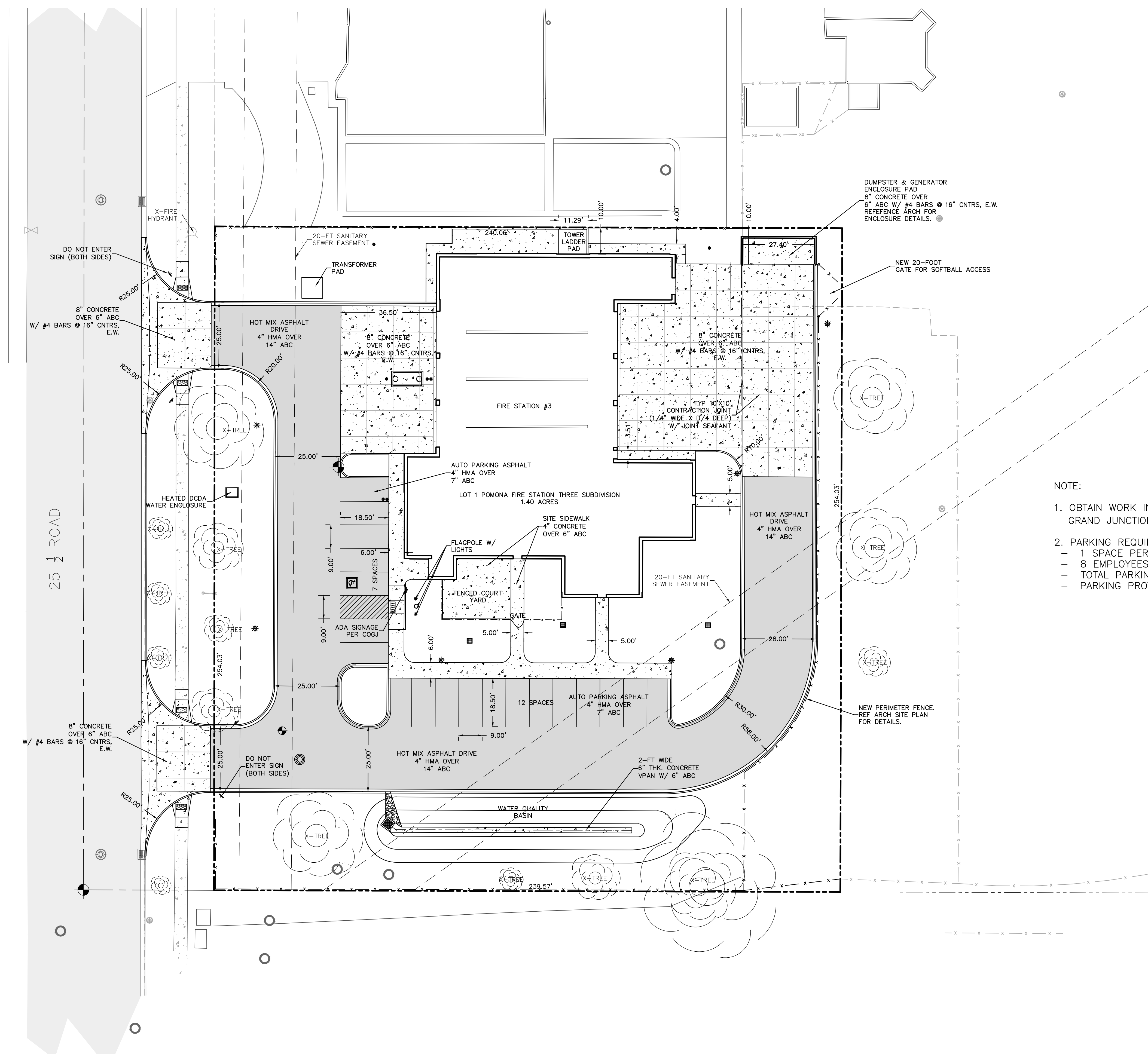
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DATE: 02-25-21

PROJECT #: 2072

SHEET #:

C1-0



- NOTE:
- OBTAIN WORK IN RIGHT OF WAY PERMITS FROM THE CITY OF GRAND JUNCTION BEFORE DOING ANY WORK ALONG 25 1/2 ROAD.
 - PARKING REQUIREMENTS ARE AS FOLLOWS:
 - 1 SPACE PER EMPLOYEE + 1 SPACE PER 300 SF OFFICE
 - 8 EMPLOYEES PER SHIFT + 780 SF OFFICE
 - TOTAL PARKING REQUIRED = 8 + 3 = 11 SPACES
 - PARKING PROVIDED = 19 SPACES

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DATE:	02-25-21
PROJECT #:	2072
SHEET #:	

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**GRAND JUNCTION FIRE
DEPARTMENT
FIRE STATION #3**

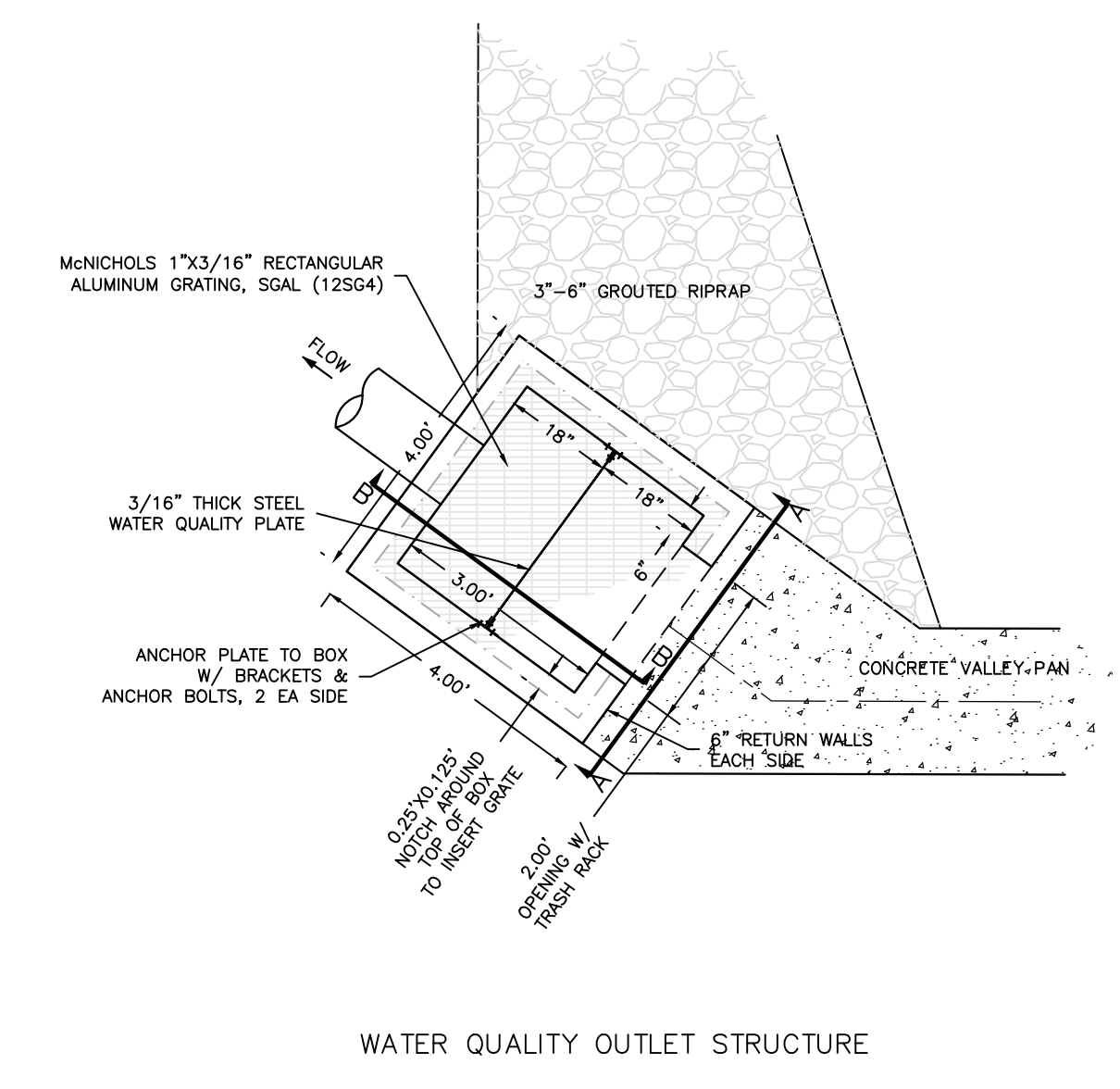
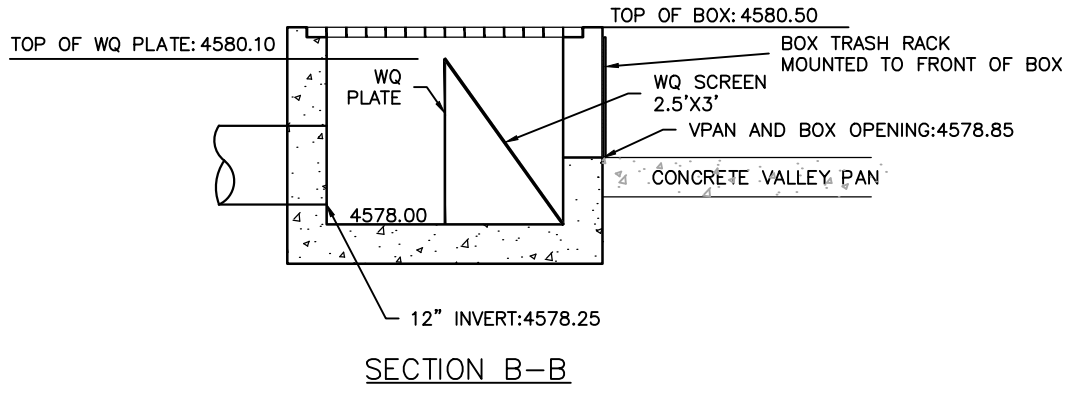
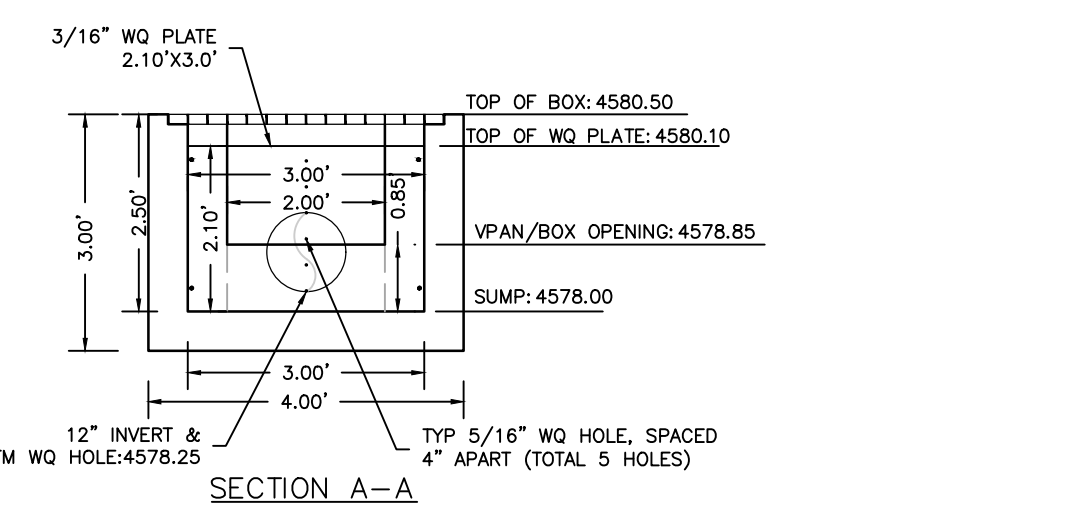
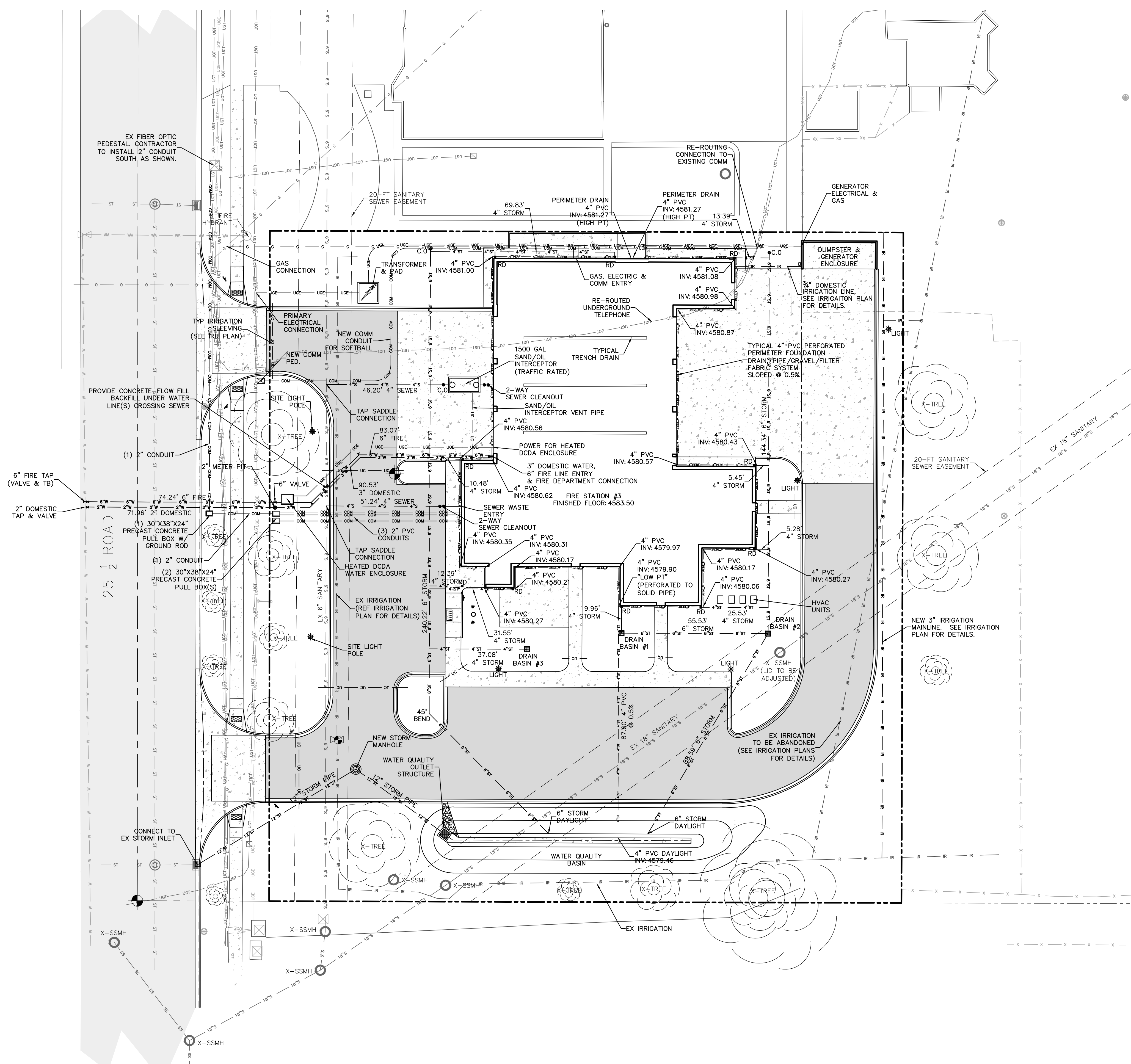
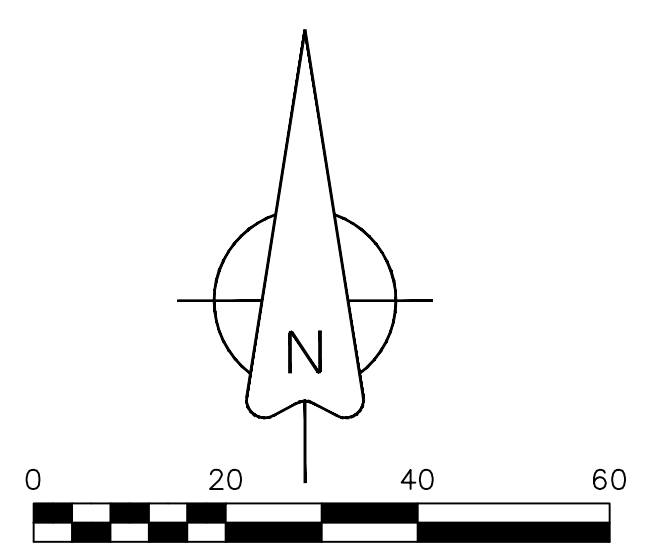
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JUNCTION, COLORADO 81501

UTILITY COMPOSITE

FOR CONSTRUCTION

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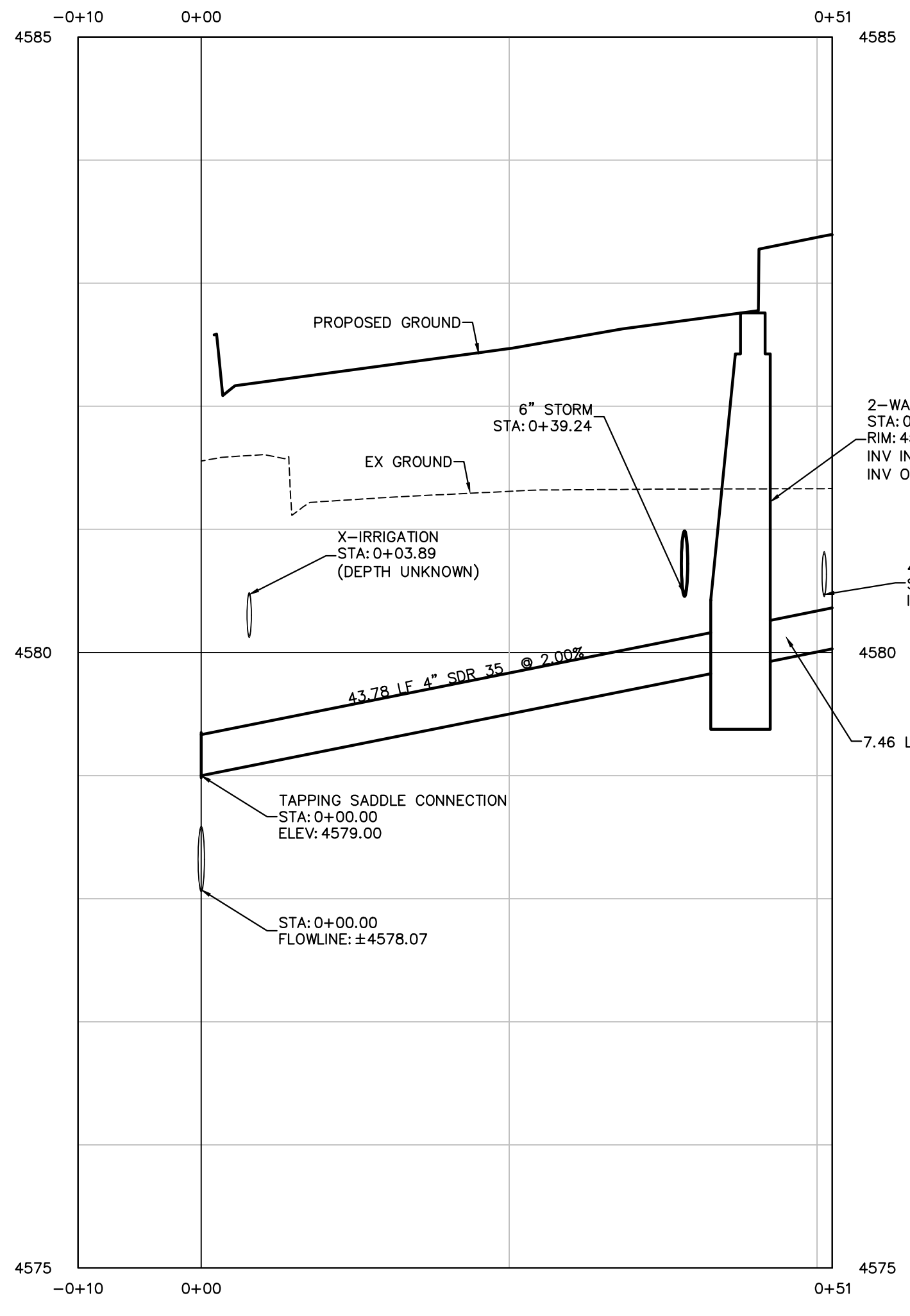
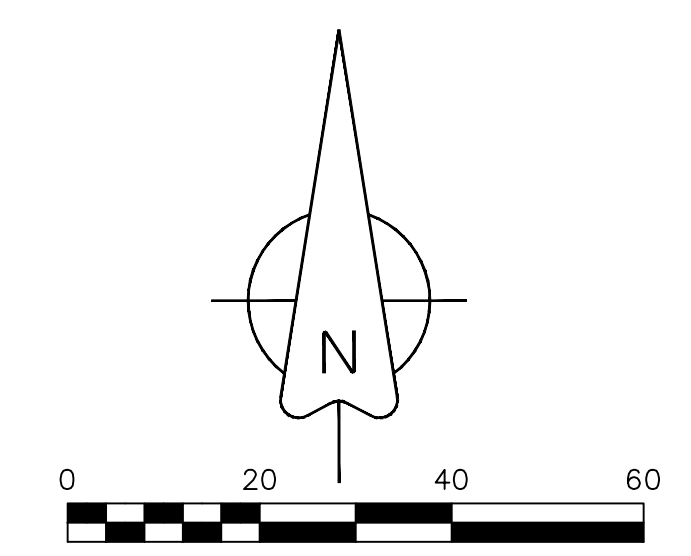
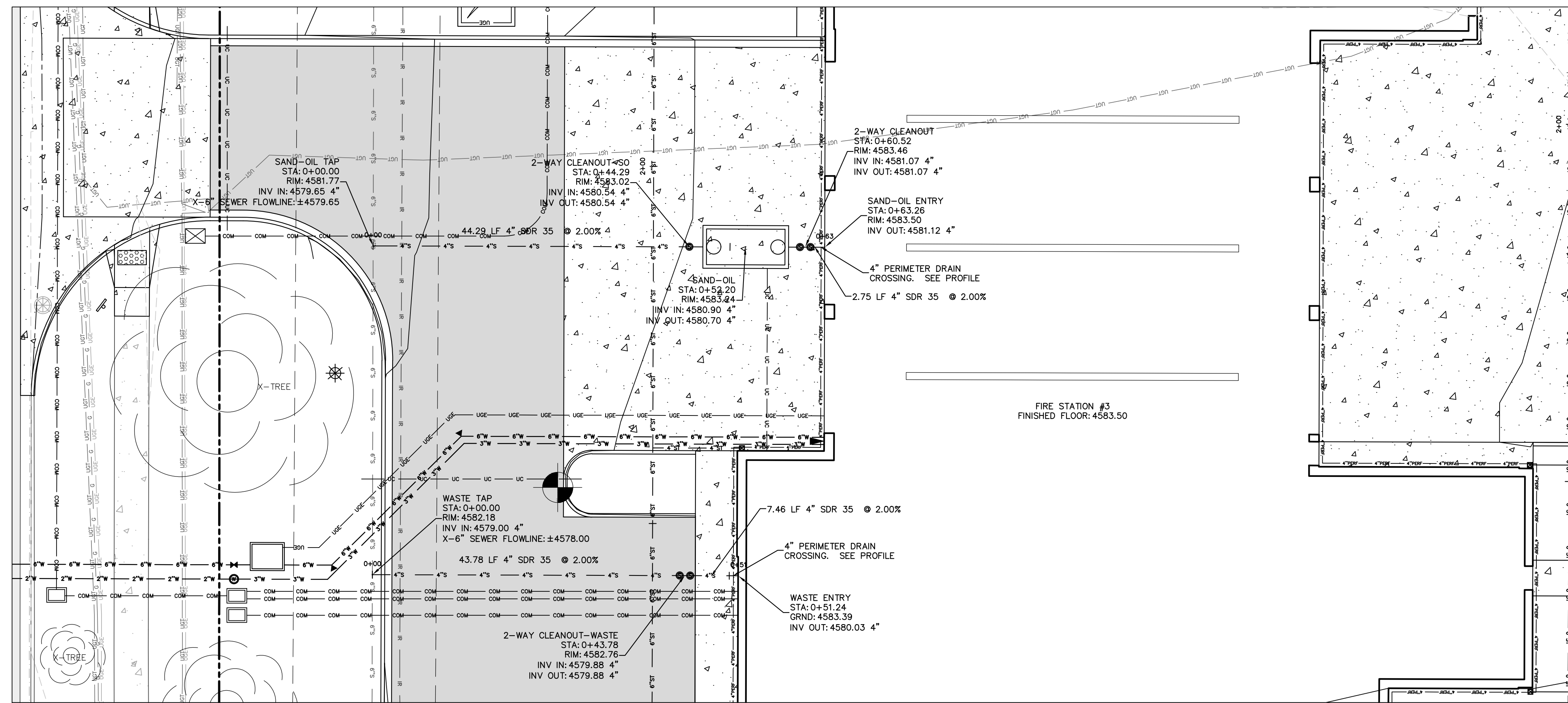
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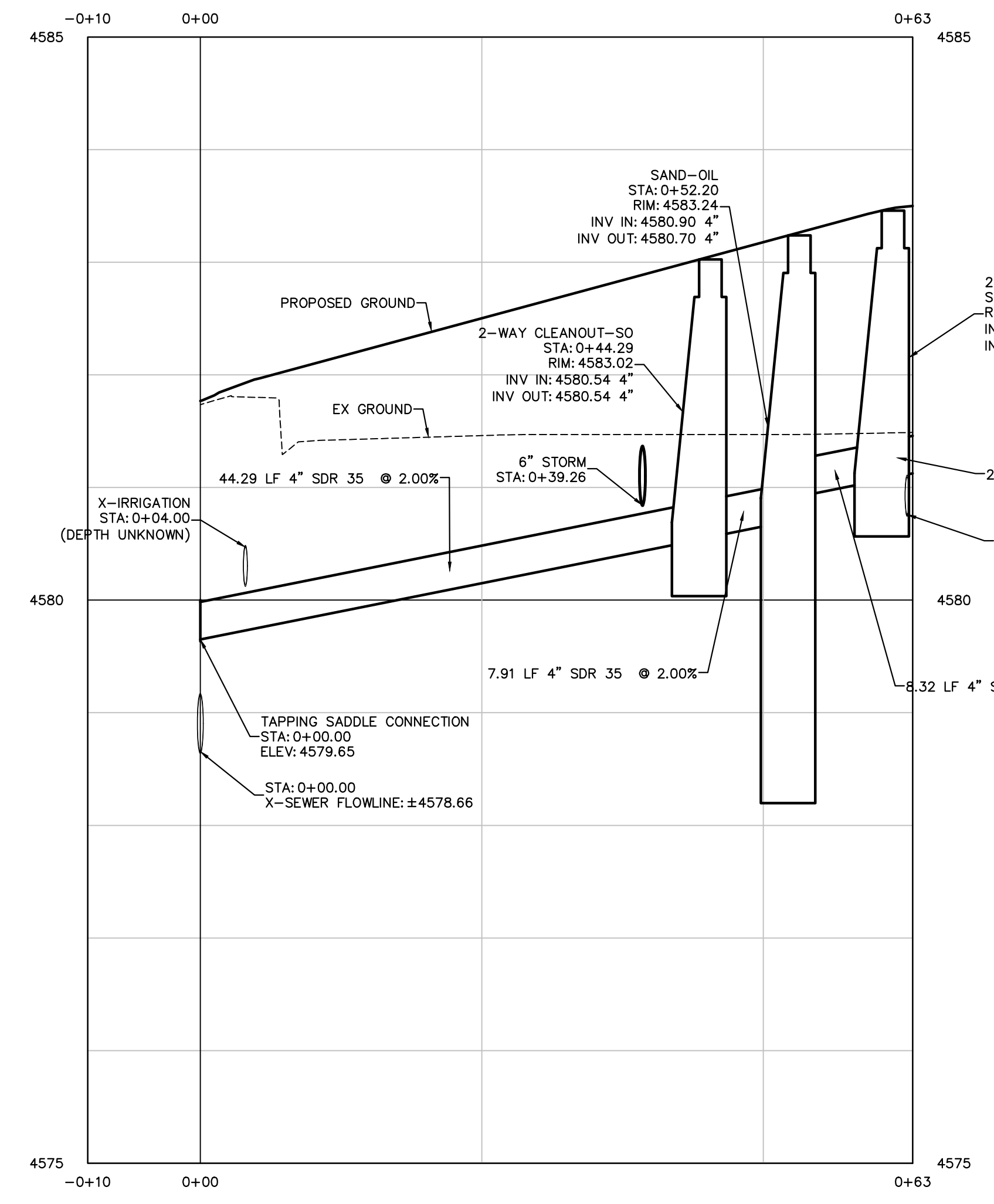
GENERAL NOTES:

1. ALL EXISTING UTILITY INFORMATION DEPICTED ON THESE PLANS IS A QUALITY LEVEL "C", UNLESS OTHERWISE NOTED.
2. OBTAIN WORK IN RIGHT OF WAY PERMITS FROM THE CITY OF GRAND JUNCTION BEFORE DOING ANY WORK ALONG 25 1/2 ROAD.
3. STORM DRAINS ARE TO BE 12" "NYLOPLAST" DRAIN BASINS OR EQUAL WITH A STANDARD 12" SQUARE PEDESTRIAN GRATE.

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4 INCH SEWER WASTE
HORIZONTAL: 1"=10', VERTICAL: 1"=1'
4-INCH WASTE



4 INCH SEWER SAND-OIL
HORIZONTAL: 1"=10', VERTICAL: 1"=1'
4-INCH SAND / OIL

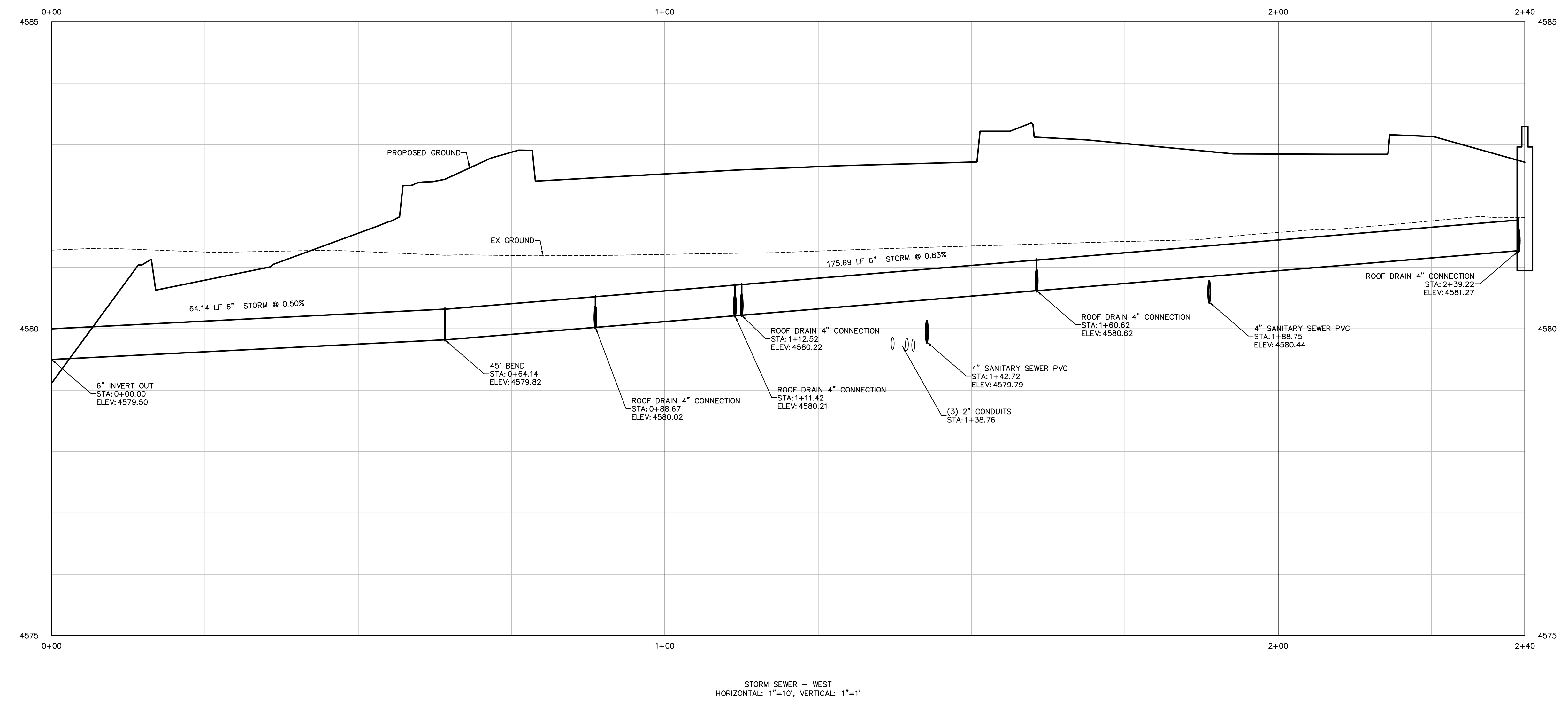
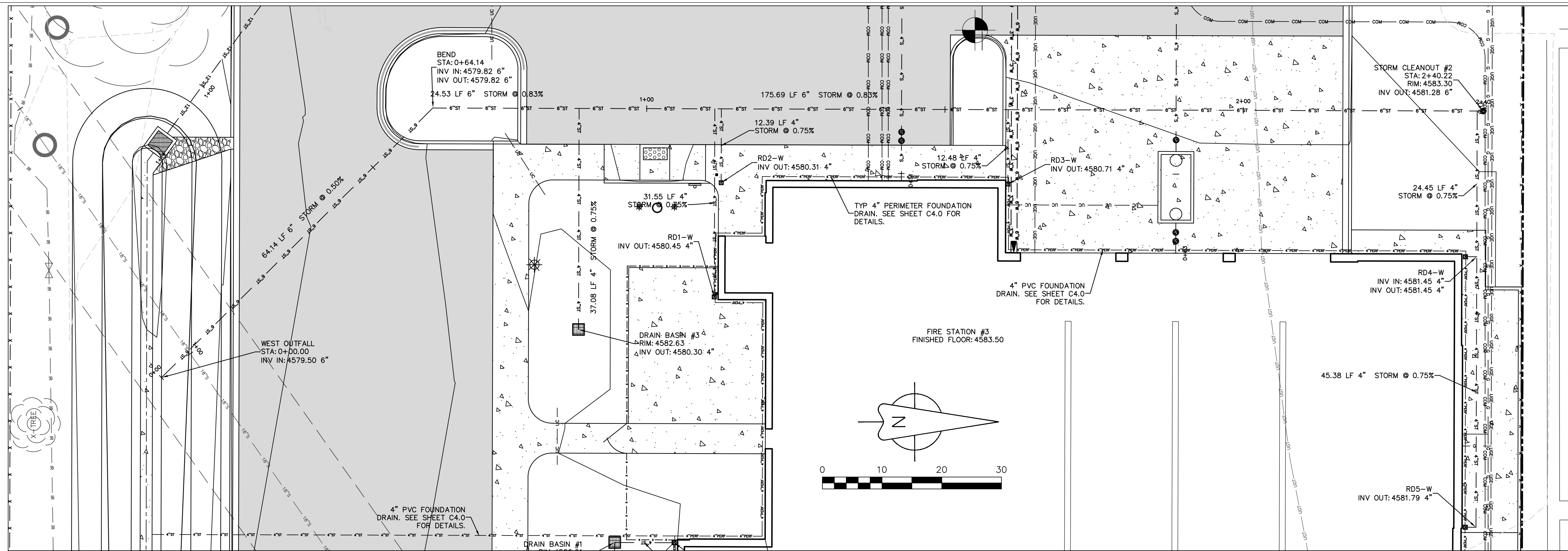
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PROJECT #: 2072

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STORM SEWER - WEST
HORIZONTAL: 1"=10', VERTICAL: 1"=1'

BG+
Architecture
Interior Design
Project Management
622 Road Avenue
Grand Junction, CO 81501
970-242-1058 office
BLITHE GROUP + co.

A.C.G.
AUSTIN CIVIL GROUP, INC.
Land Planning • Civil Engineering • Development Services
128 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501
(970) 242-0400

GRAND JUNCTION FIRE
DEPARTMENT
FIRE STATION #3

580 25 1/2 RD GRAND
JUNCTION, COLORADO 81501

STORM SEWER PLAN
& PROFILES - WEST

FOR CONSTRUCTION

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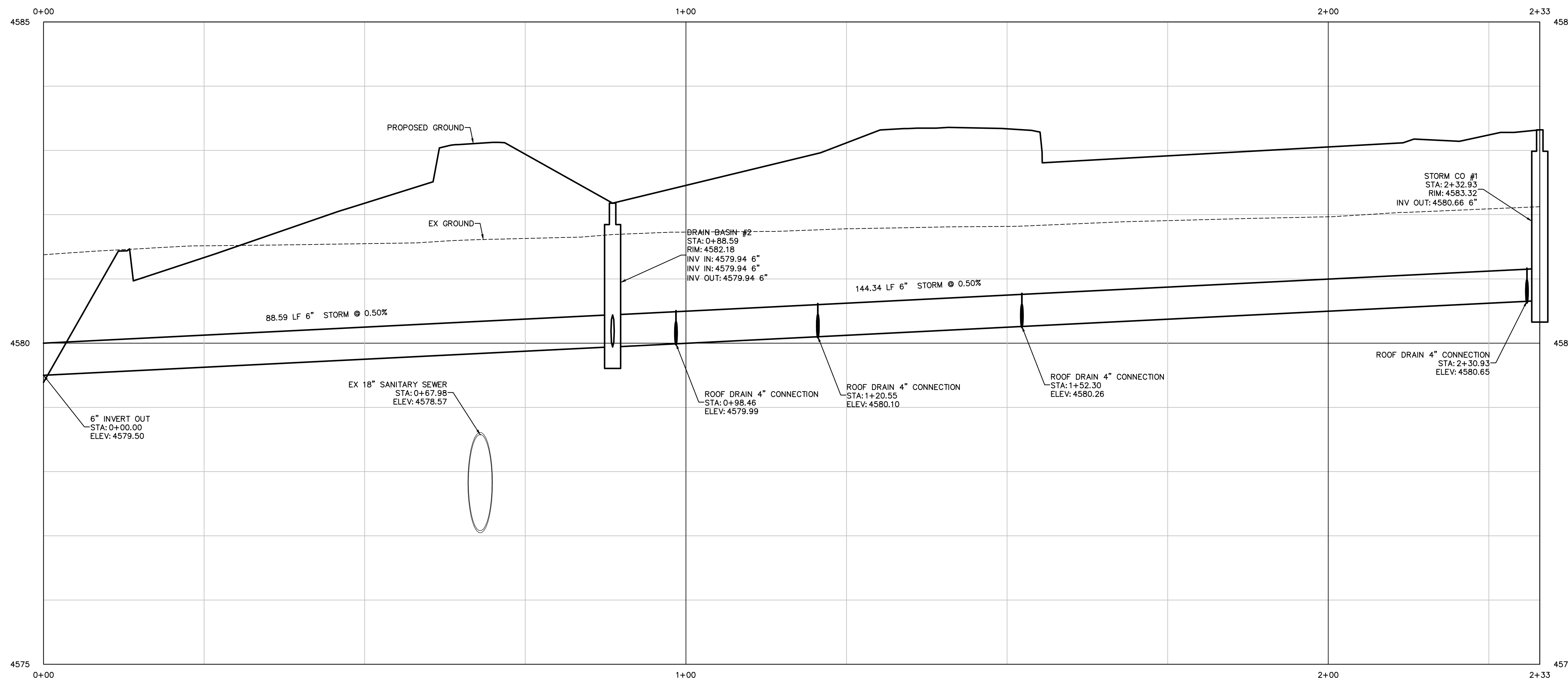
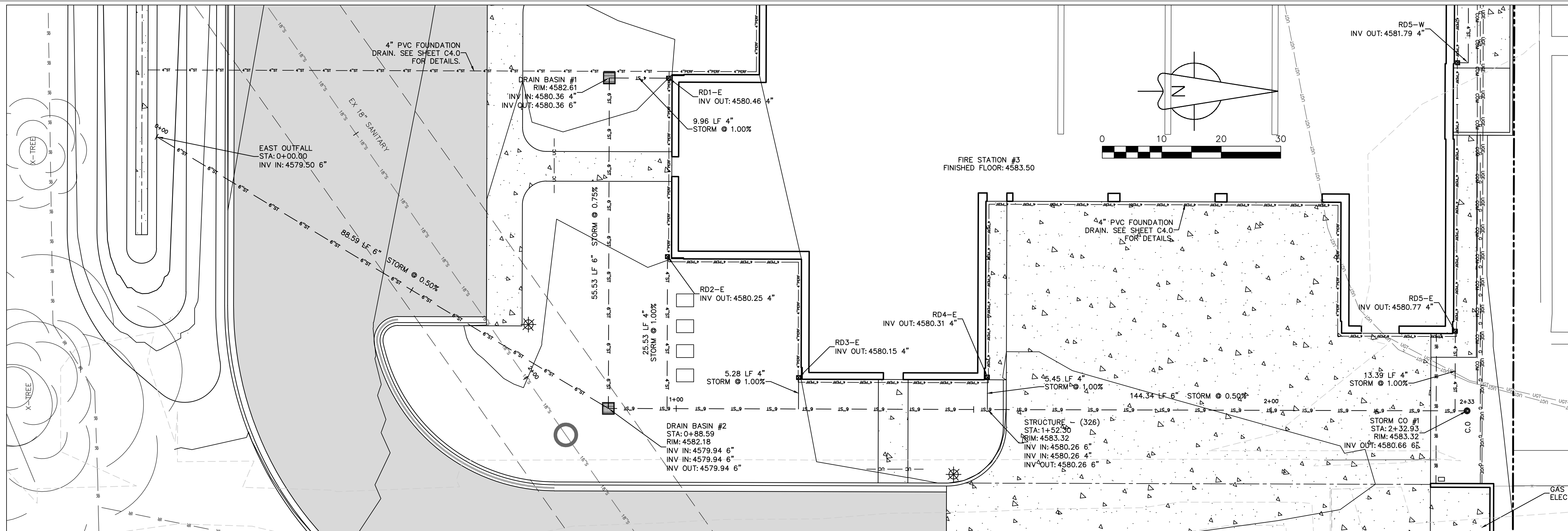
DATE: 02-25-21

PROJECT #: 2072

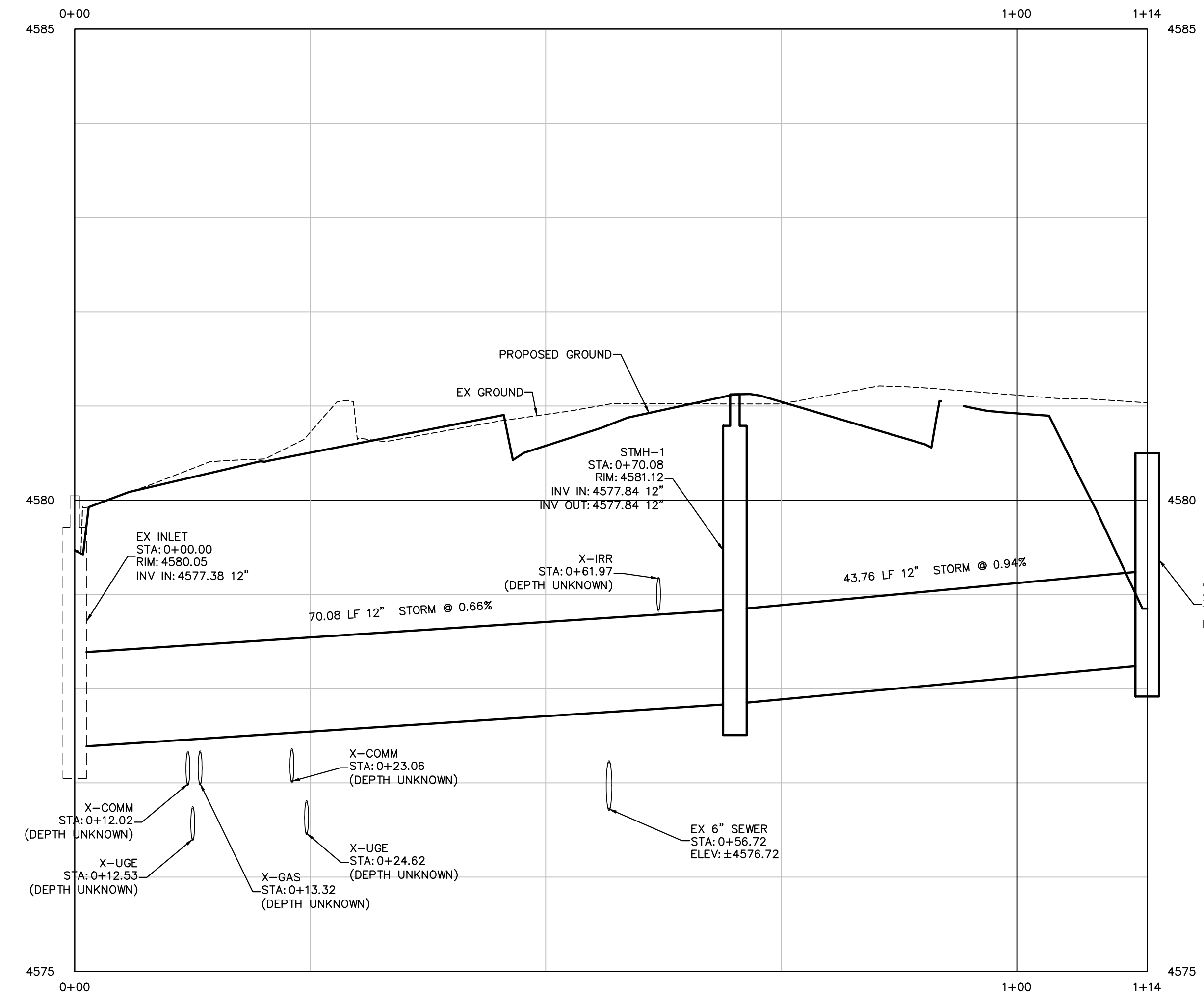
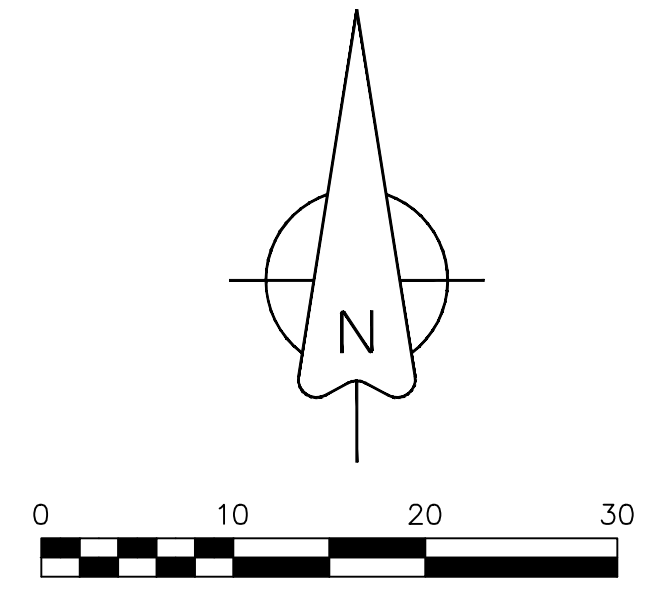
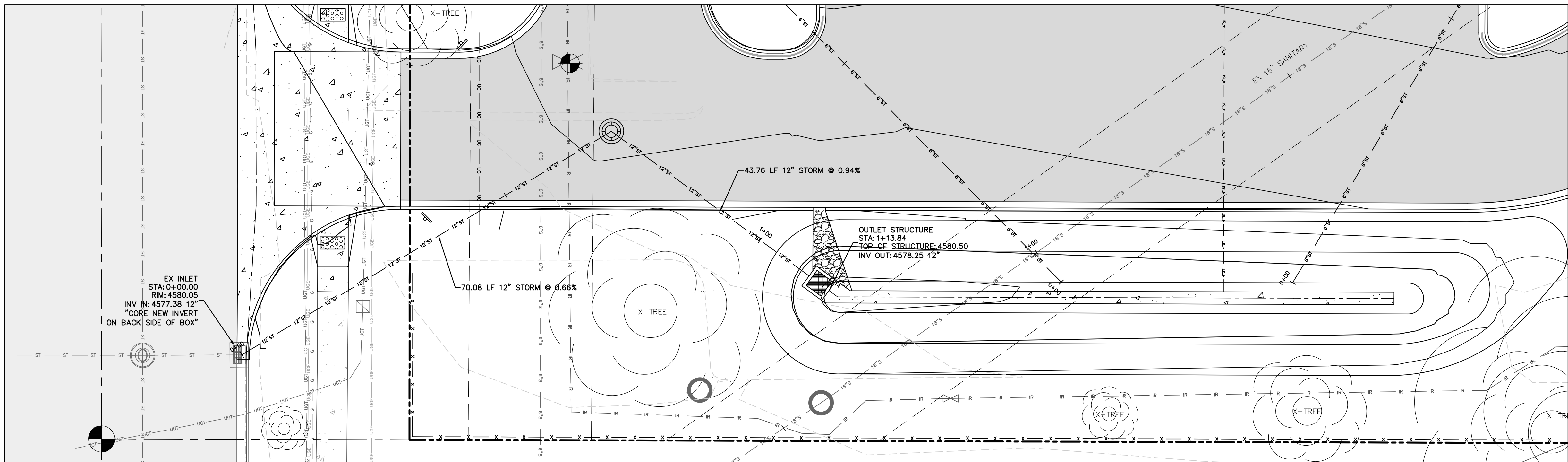
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C4-2

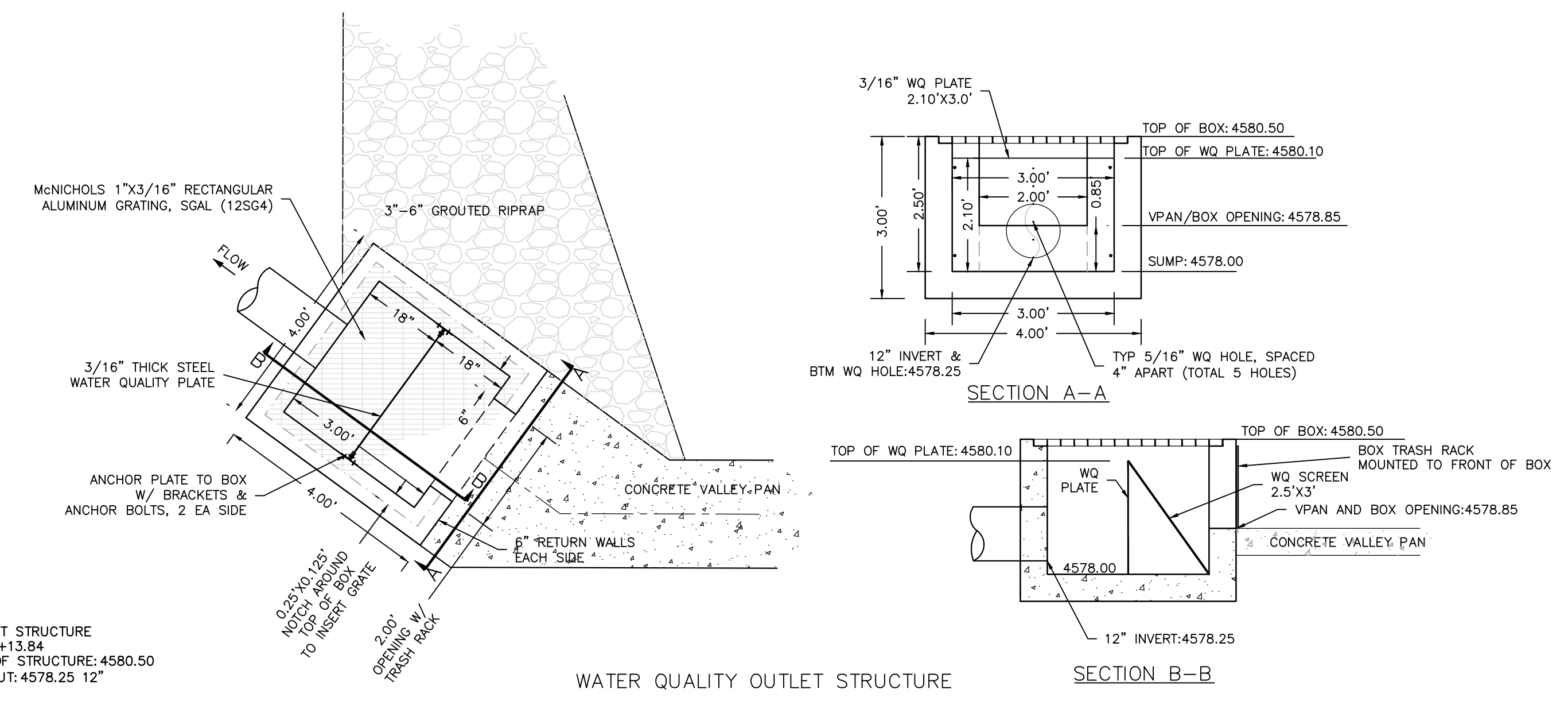
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STORM SEWER - EAST
HORIZONTAL: 1"=10', VERTICAL: 1"=1'



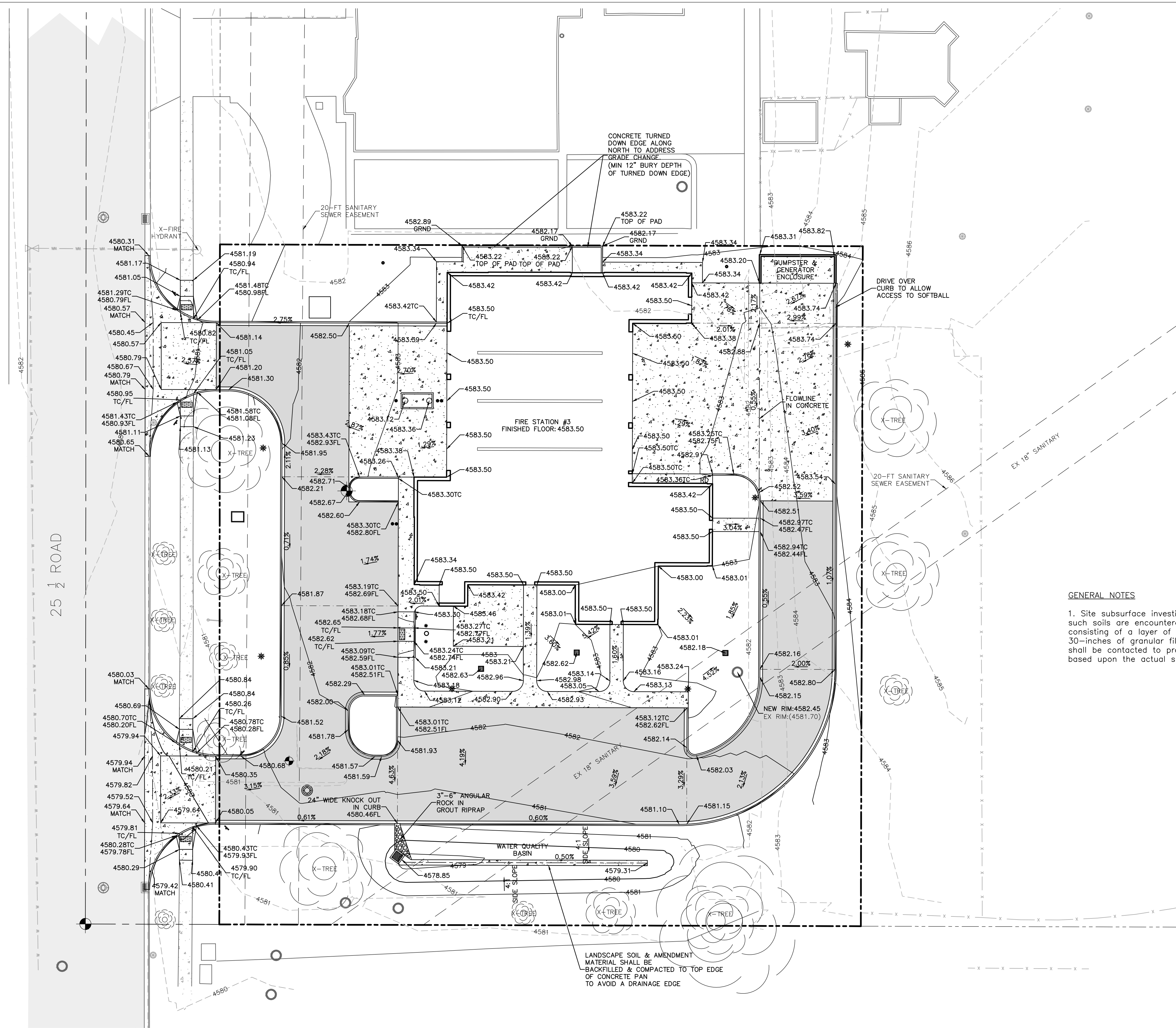
WATER QUALITY OUTFALL
HORIZONTAL: 1"=10', VERTICAL: 1"=1'



WATER QUALITY OUTFALL STRUCTURE

SECTION B-B

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GENERAL NOTES

1. Site subsurface investigation encountered soft soils within existing subgrade. If such soils are encountered during excavation subgrade stabilization may be required consisting of a layer of geotextile and/or geogrid in conjunction with up to 30-inches of granular fill (pit run or equivalent). Project's geotechnical engineer shall be contacted to provide specific recommendations for subgrade stabilization based upon the actual subgrade conditions during construction.

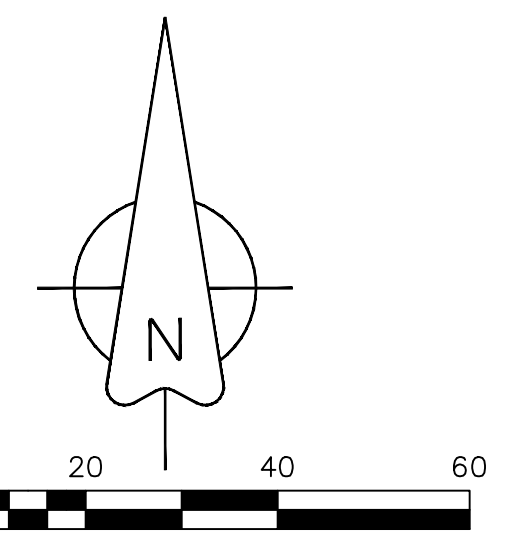
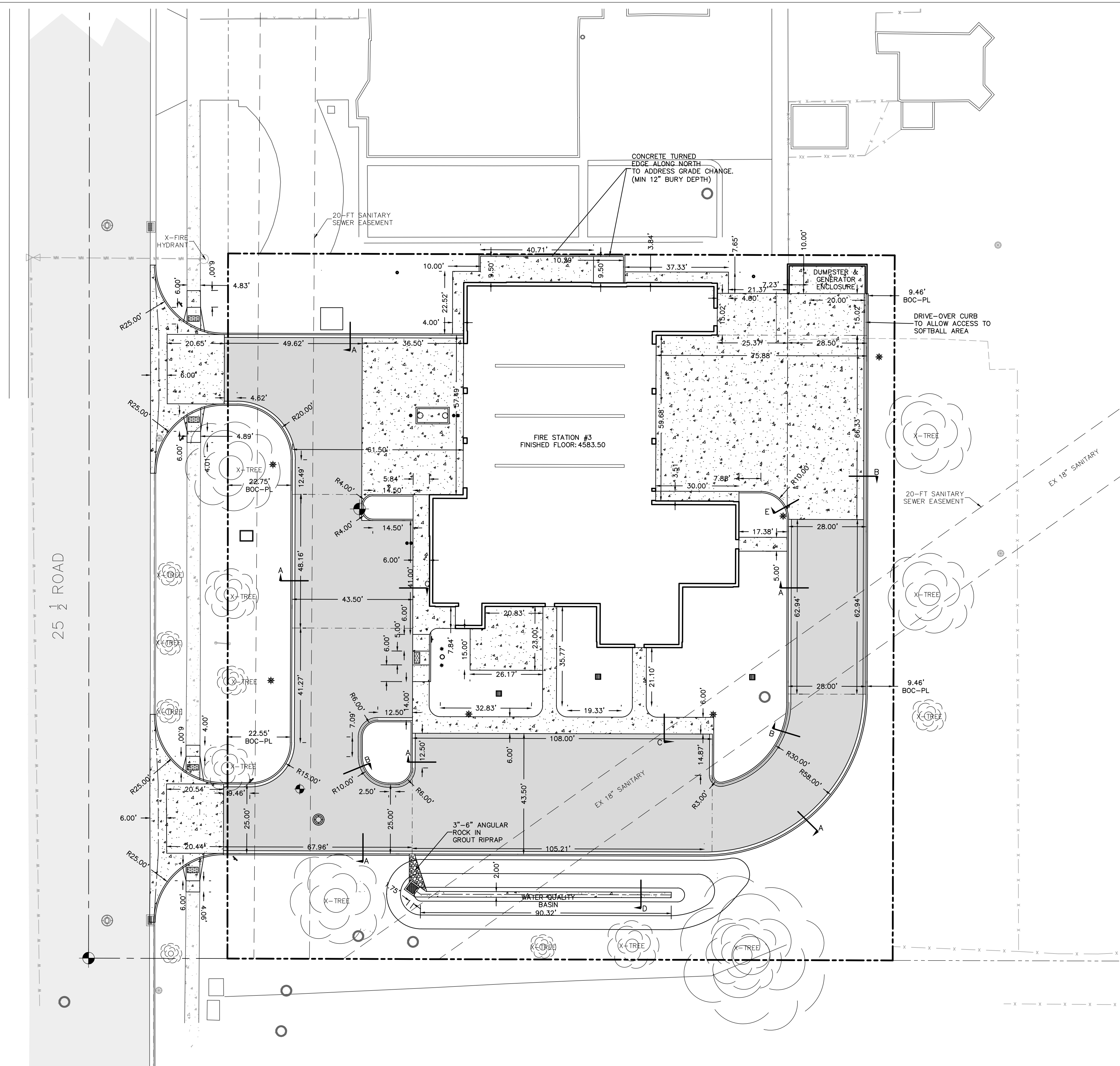
GRADING PLAN

FOR CONSTRUCTION

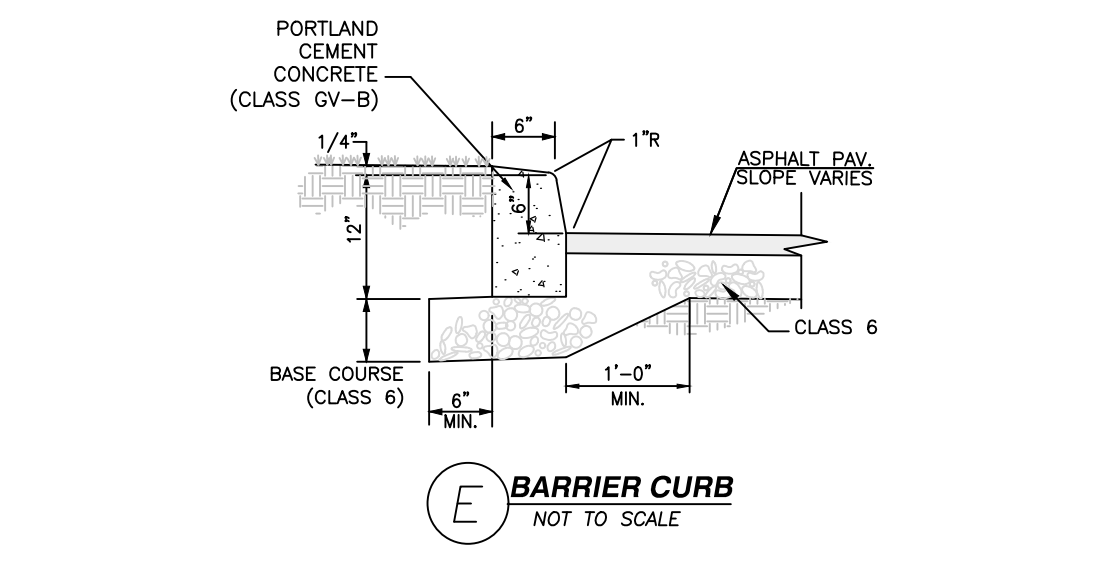
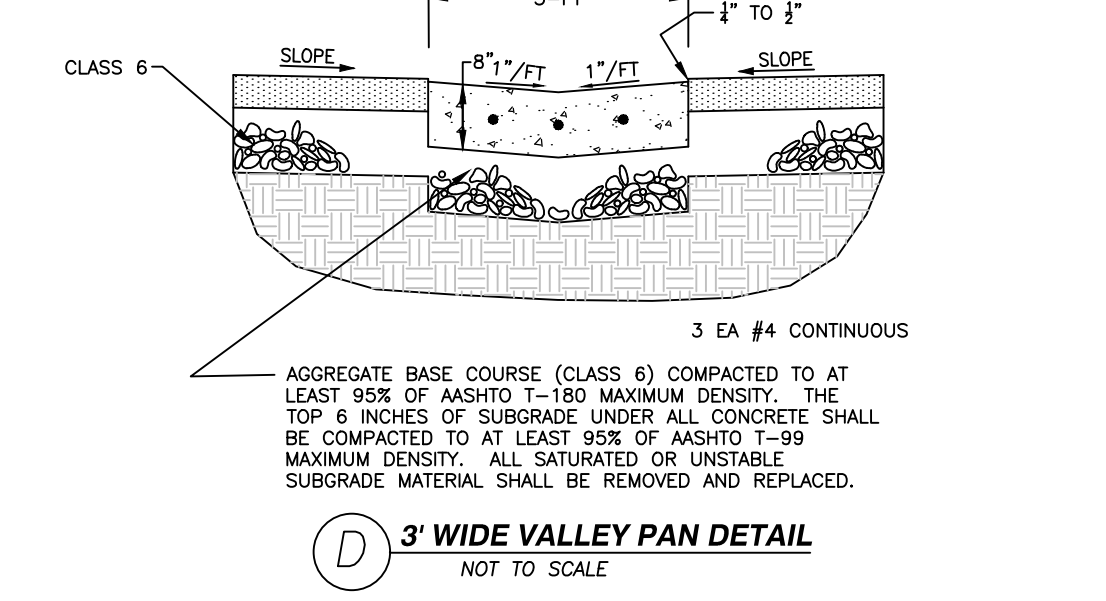
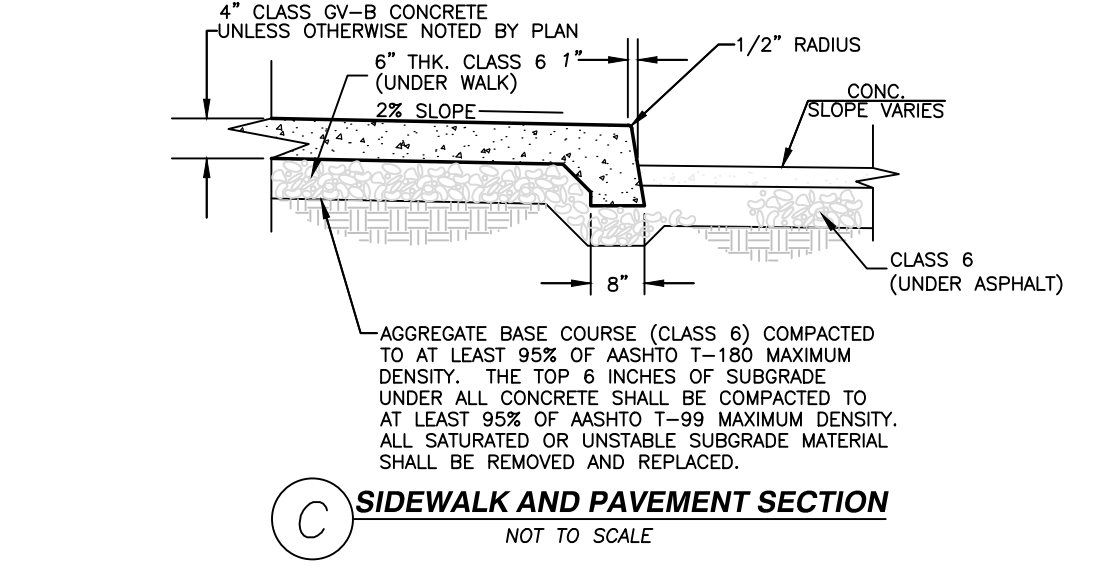
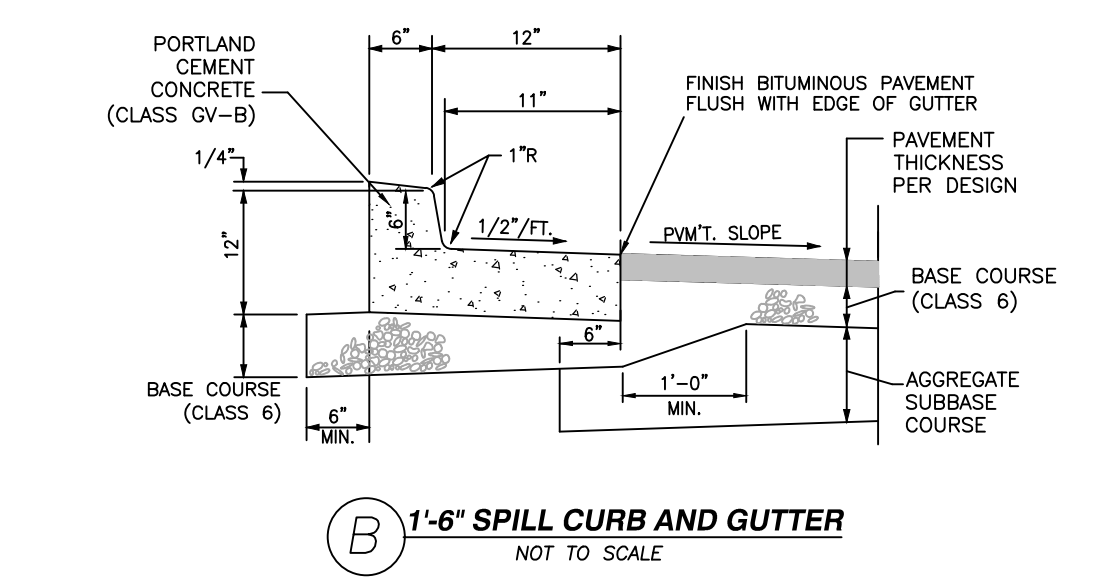
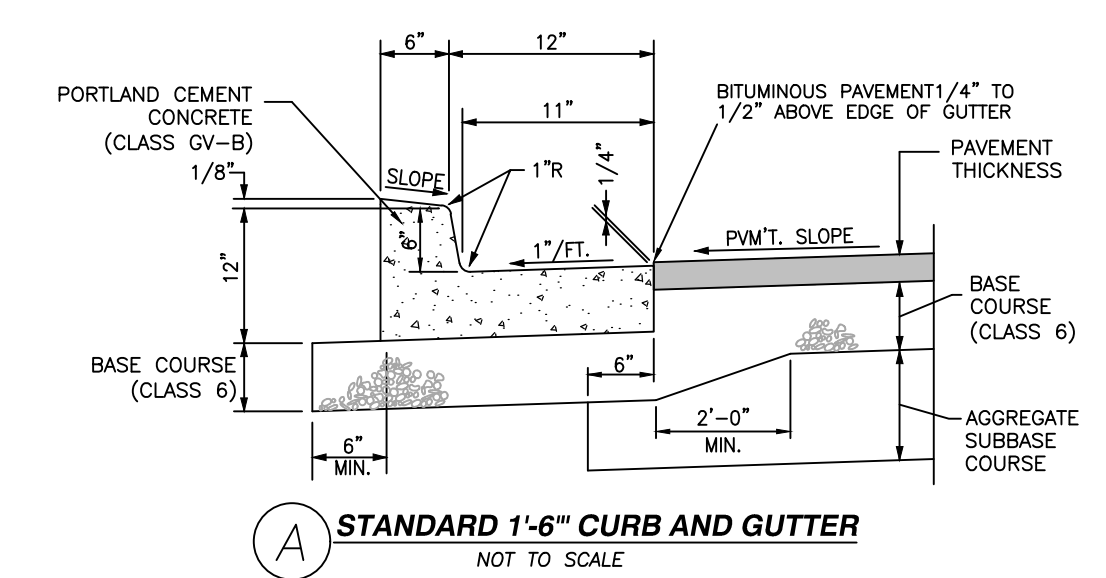
REV.	DESC.	DATE:

DATE:	02-25-21
PROJECT #:	2072
SHEET #:	

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TYPICAL CONCRETE SECTIONS



REV.	DESC.	DATE:

DATE: 02-25-21

PROJECT #: 2072

SHEET #:

C6-0

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(CSR) LANDSCAPE REQUIREMENTS

TOTAL IMPROVED AREA: 60,920 SQ. FT.

Landscape Requirements (CSR):

One tree per 2,500 square feet of improved area, with no more than 20 percent of the total being ornamental trees or evergreens. One five-gallon shrub per 300 square feet of improved area.

Location of Landscaping on Site:

Buffer, parking lot, street frontage perimeter, foundation plantings and public right-of-way.

Landscape Calculations:

1 TREE REQUIRED FOR EVERY 2,500 SQ.FT. OF IMPROVED AREA.

IMPROVED AREA = 60,920 SQ. FT.

(60,920 / 2,500) = ROUND TO 25

TREES REQUIRED = 25 or 50 inches of caliper

- Trees exceed the minimum caliper requirement by one inch or more.

TREES PROVIDED:

9 Existing Trees (118 inches of caliper)

6 New Trees (12 inches of caliper)

1 SHRUB REQUIRED FOR EVERY 300 SQ.FT. OF IMPROVED AREA.

(60,920 / 300) = ROUND TO 203.

SHRUBS REQUIRE = 203

- Twenty-five percent of the required shrubs may be converted to turf based on one five-gallon shrub per 50 square feet of turf.

TURF SUBSTITUTES FOR 51 SHRUBS: 25% OF 203 = 51 SHRUBS (50 SQ. FT. TURF X 51 = 2,550 SQ. FT. TURF MIN.)

- Ten percent of the required shrubs may be converted to perennials and/or ground covers at a ratio of three one-gallon perennials and/or ground covers for one five-gallon shrub

PERENNIAL SUBSTITUTES FOR 11 SHRUBS. (33 PERENNIALS / 3 = 11 SHRUBS)

- Additional trees or larger trees can be exchanged on a per-caliper-inch basis with three shrubs equaling one caliper inch. Credit for using larger trees would be based on a direct exchange of caliper inches.

TREE CALIPER SUBSTITUTES FOR 87 SHRUBS. (29 INCHES OF LARGER TREE CALIPER = 111 SHRUBS)

SHRUBS PROVIDED:

FIVE GALLON SHRUBS PROVIDED = 45

ONE GALLON PERENNIALS = 33

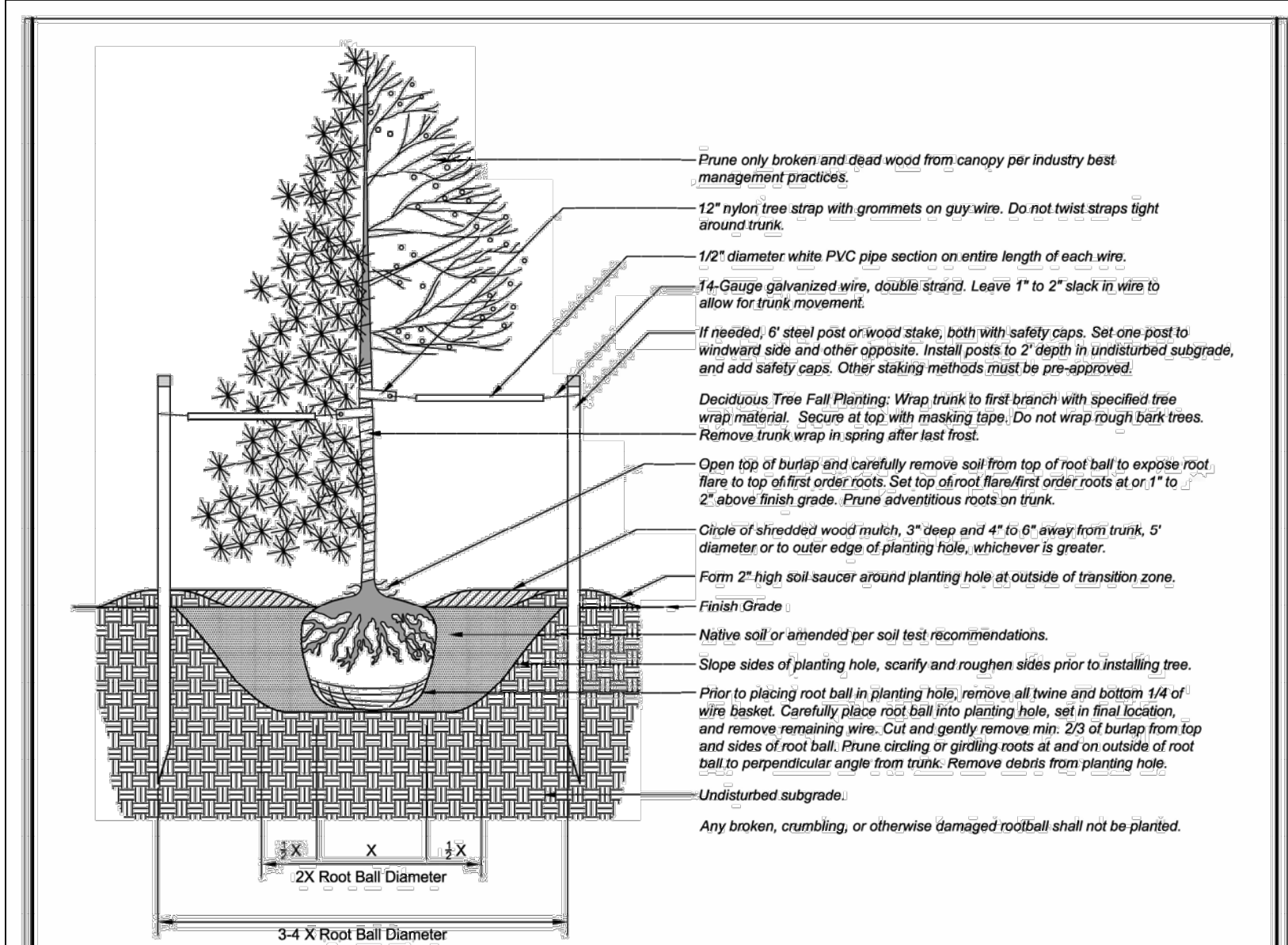
TURF AREA = 31,470 SQ. FT.

80 INCHES OF LARGER TREE CALIPER

PROPOSED PLANT LIST

No.	Sym.	Common Name/ Biological Name	Planting Size/ Remarks	Mature Size
Deciduous Trees:				
4	HCT	Cockspur Thornless Hawthorn/ Crataegus crus-galli 'Inermis'	2" cal / B&B	20' Ht. & 15' Spd.
2	KCT	Kentucky Coffeetree/ Gymnocladus dioicus	2" cal / B&B	60' Ht. & 50' Spd.
Deciduous Shrubs:				
2	ATR	Althea- Rose of Sharon / Hibiscus syriacus	18"-24" Spread/ #5	10' Ht. & 5' Spd.
5	BMS	Blue Mist Spirea/ Caryopteris x clandonensis	18"-24" Spread/ #5	3' Ht. & 3' Spd.
5	MKL	Miss Kim Lilac/ Syringa patula 'Miss Kim'	18"-24" Spread/ #5	5' Ht. & 5' Spd.
3	NMP	New Mexico Privet/ Forestiera neomexicana	18"-24" Spread/ #5	8' Ht. & 6' Spd.
4	LSB	Lilla Smoke Bush/ Cotinus coggygria 'Lilla'	18"-24" Spread/ #5	4' Ht. & 4' Spd.
5	DBB	Dwarf Burning Bush/ Euonymus alatus 'Compacta'	18"-24" Spread/ #5	4' Ht. & 4' Spd.
3	RSA	Russian Sage/ Perovskia arkticifolia	18"-24" Spread/ #5	4' Ht. & 4' Spd.
2	YFC	Yellow Flowering Currant/ Ribes aureum	18"-24" Spread/ #5	6' Ht. & 6' Spd.
Evergreen and Broadleaf Shrubs:				
12	GMD	Green Mound Juniper/ Juniperus procumbens Green Mound'	18"-24" Spread/ #5	1' Ht. & 6' Spd.
4	ACB	Arizona Cypress/ Cupressus arizonica 'Blue Ice'	5' Tall/ #20	15' Ht. & 8' Spd.
Grasses/ Perennials/ Ground Cover:				
6	PHM	Panicum 'Heavy Metal'	#1	3' Ht. & 2' Spd.
6	MRU	Muhlenbergia reverchonii 'Undahnted'	#1	2' Ht. & 2' Spd.
7	DAY	Daylily/ Hemerocallis 'Crimson Pirate'	#1	24" Ht. & 24" Spd.
7	SDA	Autumn Joy Sedum/ Sedum spectabile 'Autumn Joy'	#1	24" Ht. & 24" Spd.
2	ELA	English Lavender/ Lavandula angustifolia 'Munstead'	#5	18" Ht. & 24" Spd.
7	APD	Aster Purple Dome/ Aster novae-angliae 'Purple Dome'	#1	18" Ht. & 18" Spd.
Bulbs:				
20	ERE	Eremerus	Bulbs	
20	ALG	Allium 'Globemaster'	Bulbs	
300	CRO	Crocus	Bulbs	

*All plant totals on the plant list shall be verified with plant numbers on the landscape plans.



Trees planted upon park land, public property or within the Public Right of Way (PRW) are subject to the following restrictions:

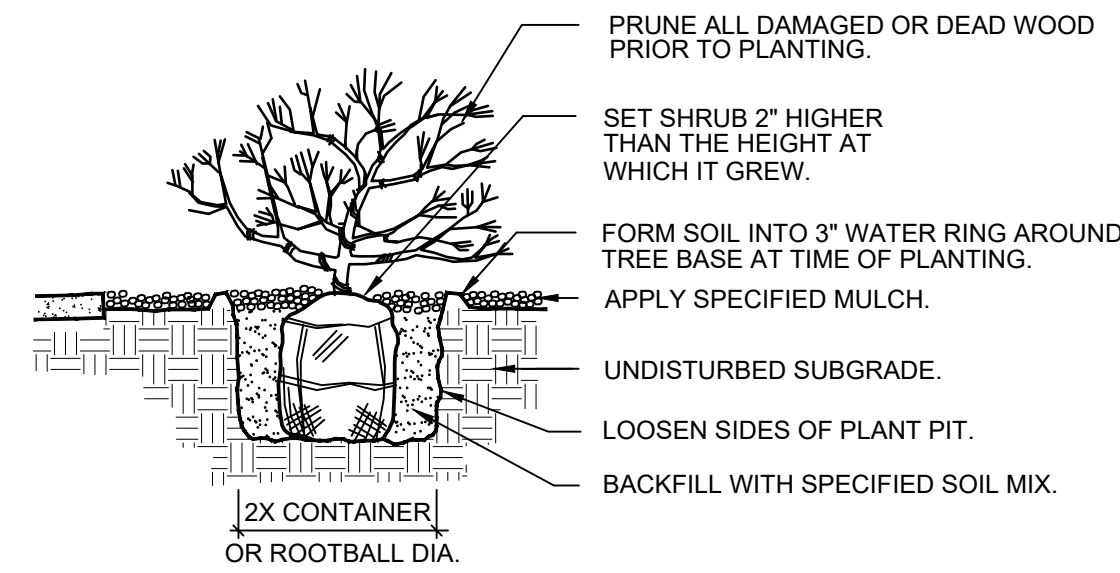
- Prior to digging, the Utility Notification Center of Colorado shall be contacted at 811 to locate underground utilities.
- A planting permit from the Grand Junction City Forester (GJCF) is required regardless of approved plans to ensure the City is available to inspect the planting of public trees.
- Tree planting shall not occur when daytime temperatures reach or exceed 90-degrees Fahrenheit, unless approved by GJCF.
- Only tree species approved by the GJCF shall be planted.
- Trees shall not be planted in tree lawns less than six feet wide unless authorized by the GJCF.
- Trees shall be centered in tree lawns and/or planting areas. Where sidewalks are not present, trees shall be located as designated by the GJCF.
- Unless authorized by the GJCF, trees shall be located:
 - Outside street intersection eight distance triangle, measured 30 (thirty) feet along the PRW in each direction from the corner.
 - Min. 10 (Ten) feet from alleys and driveways
 - Min. 20 (Twenty) feet from stop signs and curb ramps
 - Min. 25 (Twenty-five) feet from street lights
 - Min. 10 (Ten) feet from electric/gas/water lines, water meters/pits, and fire hydrants
 - Min. 15 (Fifteen) feet from small cell towers
- If overhead utility wires exist, only trees with an expected mature size that meet current clearance regulations may be planted.
- Tree spacing shall be based on projected mature canopy size and above restrictions, or as approved by the GJCF.
- All electric fixtures and utilities, including but not limited to outlets and lights, shall be located at outside perimeter of tree planting areas within landscape. In tree lawns, fixtures shall be placed minimum 3 (three) feet radially from base of trunk.

When planting is completed, contact forestry@gjcity.org for final inspection.

	City of Grand Junction Office of the City Forester 2528 High Country Ct Grand Junction, CO 81501	Tree Planting Detail - Public Right of Way, Park, and other Public Grounds	Detail: GJCF-PLANT1 Effective: 01-12-2021
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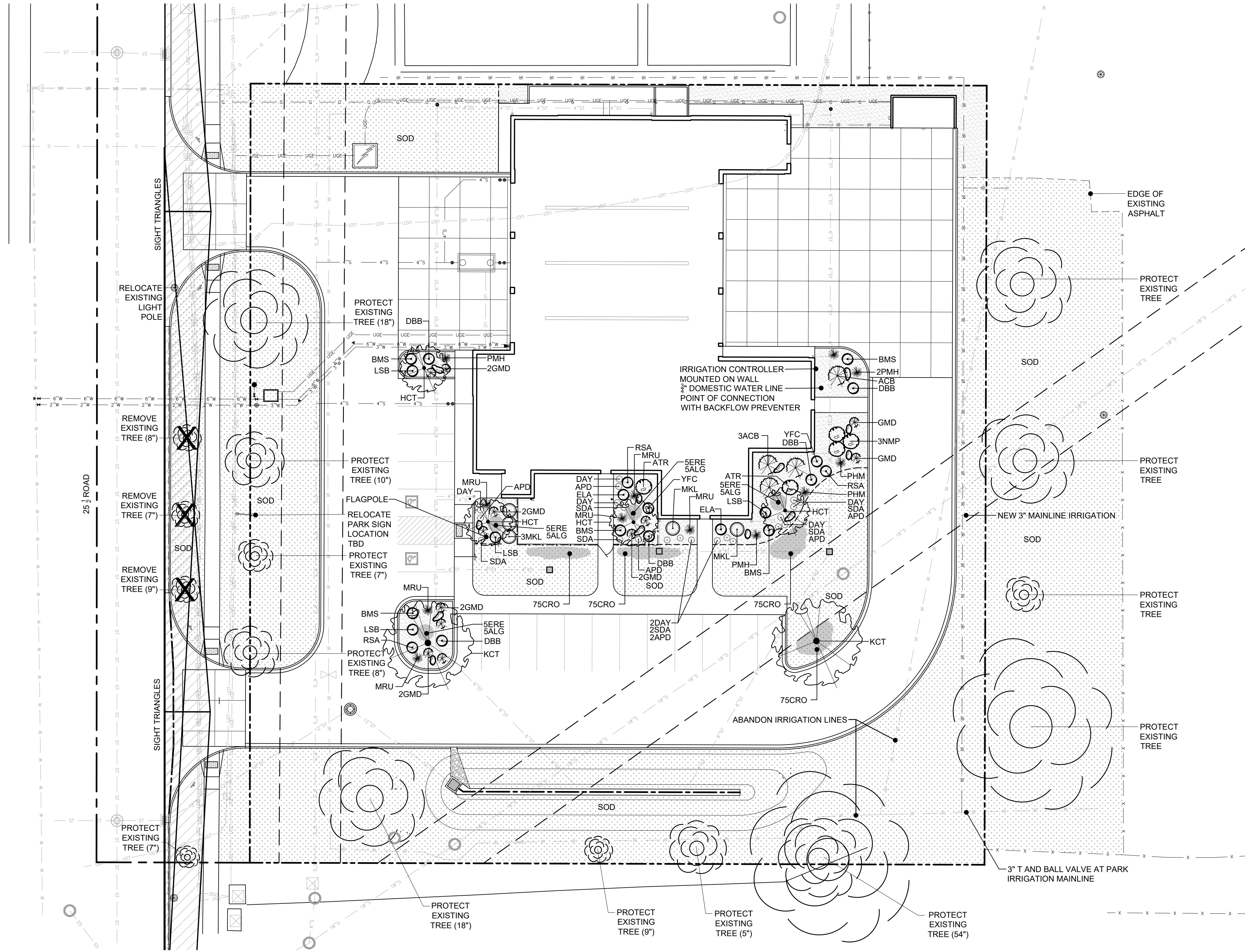
LANDSCAPE AND IRRIGATION NOTES

1. PLANTING AREAS ARE TO HAVE 3" OF LANDSCAPE ROCK (1/2" TAN GRANITE). ALL PLANT MATERIAL SHALL HAVE A PLANTING RING AT THE BASE OF EACH PLANT WITH 3" OF WESTERN RED CEDAR MULCH OVER LANDSCAPE FABRIC.
2. AN UNDERGROUND, PRESSURIZED IRRIGATION SYSTEM WILL BE PROVIDED FROM THE EXISTING 3" IRRIGATION MAINLINE AT THE PARK SYSTEM. A SECONDARY 3/4" DOMESTIC WATER LINE WILL BE INSTALLED TO A BACKFLOW PREVENTER FROM THE FIRE STATION FOR FUTURE USE. THE IRRIGATION CONTROLLER WILL BE LOCATED AT THE FIRE STATION. ALL PLANTING BEDS ARE TO BE IRRIGATED WITH AN AUTOMATIC DRIP SYSTEM AND ALL SOD AREAS ARE TO BE IRRIGATED WITH A POP-UP SPRAY SYSTEM. SEE IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
3. METAL LANDSCAPE EDGING IS TO BE INSTALLED ALONG THE EDGE OF THE LANDSCAPE ROCK AREAS.
4. PLACE CROCUS BULBS INTO THE TURF ON THE SOUTH SIDE OF THE BUILDING AS SHOWN ON THE LANDSCAPE PLAN.
5. THE LANDSCAPE CONTRACTOR SHALL COLLECT SOILS SAMPLES AND RUN SOILS TESTING FOR THE PROPOSED PLANTING AREAS. ADD SOIL AMENDMENTS AND FERTILIZERS AS RECOMMENDED IN THE SOIL TESTING REPORT TO ENSURE A GOOD PLANTING MEDIUM. ANY IMPORTED PLANTING SOIL SHALL ALSO BE TESTED AND BE THREE PARTS SCREENED TOPSOIL AND ONE PART MANURE.



A Shrub Planting Detail

SCALE: NTS



1 LANDSCAPE PLAN

SCALE: 1"=20'-0"

LANDSCAPE LEGEND

DECIDUOUS TREES	LARGE DECIDUOUS SHRUBS	SMALL DECIDUOUS SHRUBS	GRASSES	LANDSCAPE ROCK	METAL LANDSCAPE EDGING	SOD	BULBS
EVERGREEN SHRUBS	PERENNIALS	GRANITE LANDSCAPE BOULDERS	UTILITY NOTIFICATION CENTER OF COLORADO CALL 811 LOCATION OF UTILITIES SHOWN HEREON WAS PROVIDED BY OTHERS. CONTRACTOR MUST VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.				

0 20' 40'

NORTH

BG+co.

Architecture
Interior Design
Project Management

622 Road Avenue
Grand Junction, CO 81501
970-242-1058 office

BLTYHE GROUP + co.

MRLA

MITCH REWOLD LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECTURE AND
LAND PLANNING

386 34 1/2 Road
Palisade, Colorado 81526 (970) 361-4345

**GRAND JUNCTION
FIRE DEPARTMENT
FIRE STATION #3**

580 25 1/2 ROAD
GRAND JUNCTION, CO 81505

LANDSCAPE PLAN

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/15/2021

PROJECT #: 2072

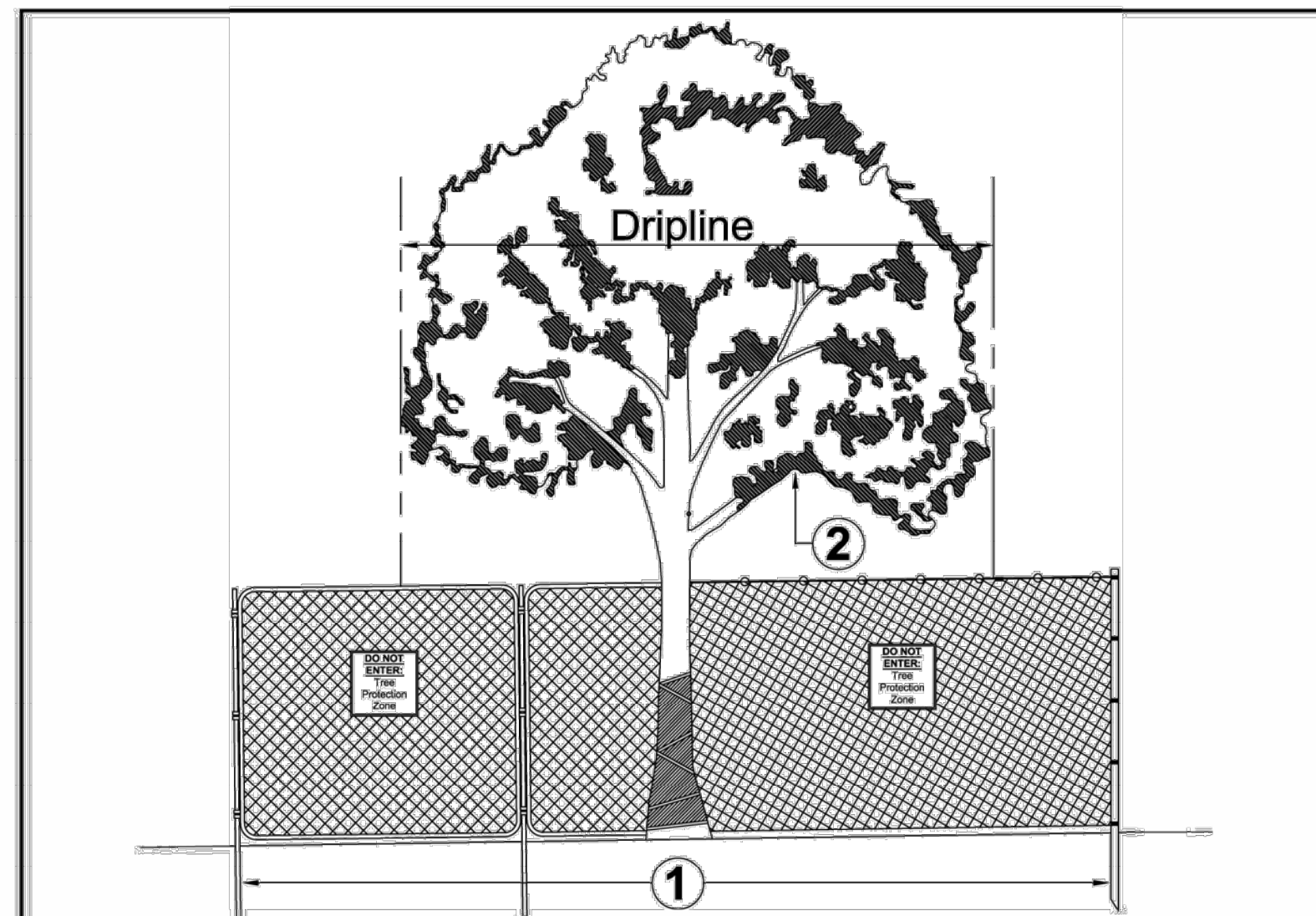
SHEET #:

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Grand Junction City Forester (GJCF) Tree Protection Specifications

- Existing trees to be preserved in public rights of way (ROW) or public places shall be protected per GJCF standards and practices. Tree protection shall be:
 - Installed prior to commencement of demolition and/or construction activities
 - Inspected and approved by GJCF staff
 - Remain in place and as approved until Certificate of Occupancy or Substantial Completion and Final Acceptance is issued
- Tree protection requirements:
 - Tree Protection Zone (TPZ) shall be installed at the dripline, furthest extent of tree canopy, or is equal to eighteen inches radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5' above soil line), whichever is greater
 - Reduced TPZ areas must be approved by GJCF
 - Install six foot (6') chain link fencing prior to commencement of project construction activities
 - With approval of GJCF, 4' orange construction fencing may be acceptable in place of chain link depending on potential impacts of activity
 - GJCF staff shall inspect and approve boundaries of tree protection zone(s) prior to commencement of demolition or construction activities
 - Once TPZ is in place, the following are not permitted within TPZ without prior written approval from GJCF:
 - Entrance and/or access
 - Moving, resizing, removing, or altering in any manner
 - Storage of materials/debris/equipment
 - Construction activities including but not limited to: rototilling, trenching, grading, installation of underground utilities and/or site improvements, landscaping, irrigation work
 - Irrigation line work shall be completed by directional bore or hand-dig method
 - "Tree Protection Zone" signs shall remain in place as posted by GJCF and shall be maintained in the condition in which they were installed
 - Tree Pruning for clearance issues must have prior authorization by GJCF staff
 - No root 2 inches or larger shall be cut; consult with GJCF staff
- Existing ROW or public place trees approved for removal by GJCF must be protected in place until removed by an GJCF-licensed tree contractor to avoid structural failures:
 - An GJCF tree removal permit is required
 - Tree removal permits are not included with building permits and/or plan approval and must be obtained separately from the GJCF
- Clear visibility into TPZ must be maintained. All construction banners, screens, barriers, and/or signs (except GJCF-posted TPZ signs) must be semi-transparent and not impede inspection of TPZ by GJCF staff
- For projects with a duration of 5 days or longer:
 - Protected trees shall be deep-root watered at a minimum interval of once every two weeks when temperatures are at or above 40-degrees
 - Trees shall be watered at the rate of 20 gallons per inch caliper
 - OCF may ask for documented proof of watering and/or treatment.
- Tree removal without permit and damages to public trees may be subject to the following:
 - Issuance of notice of violation with associated citations / fines
 - Responsible party for tree removal or tree damage shall be responsible for lost value based on industry standard tree appraisal methods as determined by GJCF

2529 HIGH COUNTRY CT, GRAND JUNCTION, CO 81501 P [970] 254-3825 F [970] 254-3878 www.gjcity.org



Any work in these areas require approval from Grand Junction City Forester (GJCF) prior to activity. Contact GJCF for instruction.

Area 1: Tree Protection Zone (TPZ) and Critical Root Zone Protection (CRZ)

- The Tree Protection Zone (TPZ) shall be equal to dripline or 1.5 feet radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5' above soil line), whichever is greater. In areas where space is constrained, tree protection zones may be approved at the CRZ radius.
- The Critical Root Zone (CRZ) shall be equal to one foot radially from the tree for every one inch of trunk diameter at breast height.

- Min 6' in height steel chain link fence is required unless otherwise approved by the GJCF. Steel chain link fence panels or rolls are acceptable. With approval from GJCF, use of orange construction fencing in place of chain link fence may be acceptable.
 - When chain link rolls are installed, it shall be fastened to heavy duty steel posts with safety caps at minimum five (5) attachment points with 12-gauge wire, including points at top and bottom. Weave wire through top of roll to eliminate sag.
 - Posts shall be driven 2' to 3' below grade and spaced at max. five to ten foot (5' - 10') o.c. intervals. Fencing must be kept taut at all times.
 - "Tree Protection Zone" signs shall be placed one (1) per each tree protection zone minimum or more per direction of GJCF, maintain in the location and condition in which approved.
 - TPZ, including signage, shall be maintained in the location and condition in which approved.

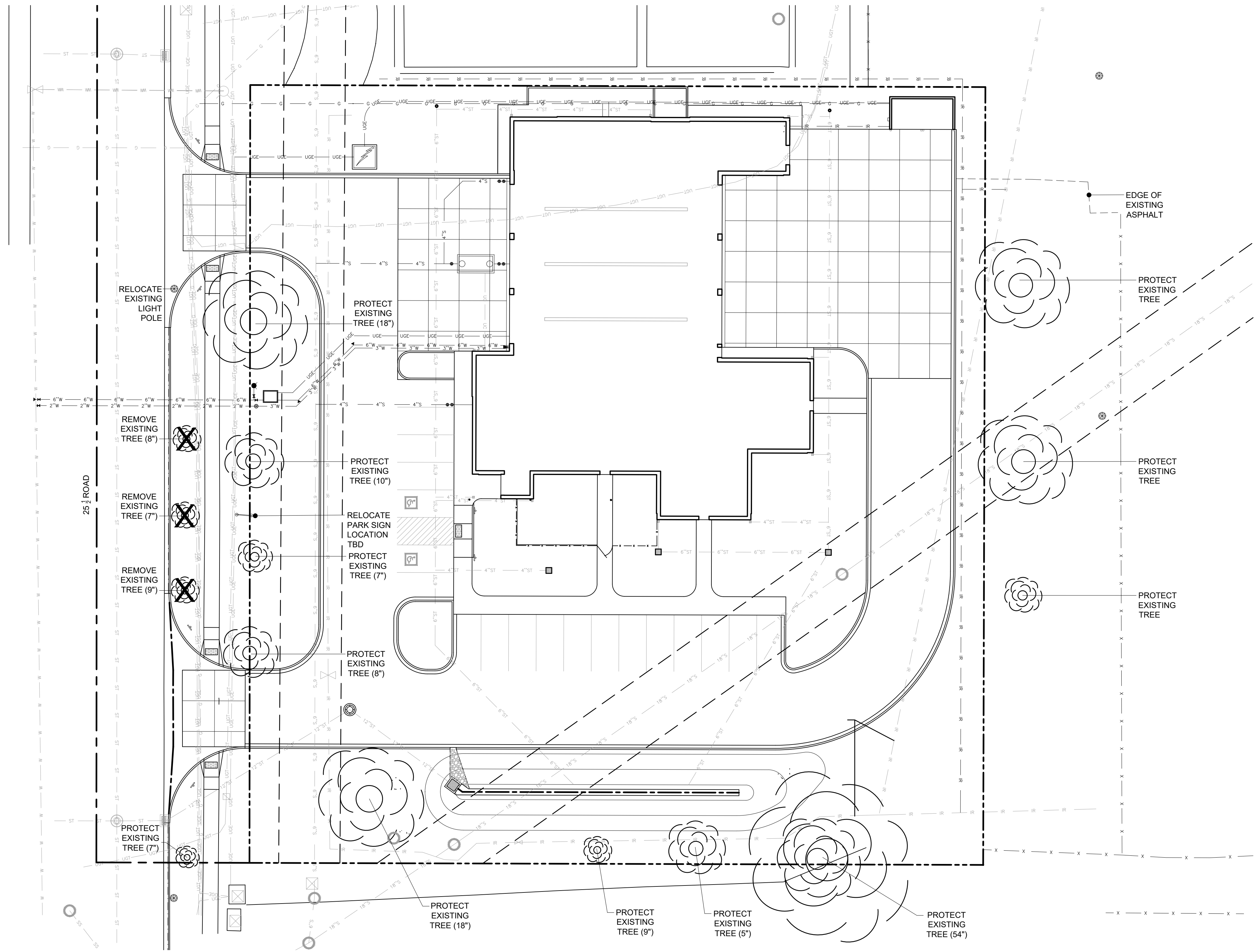
Area 2: Canopy Protection

Contact GJCF if potential for tree limb damage exists and/or if pruning is needed for any clearance issues prior to performing work.

Notes

- GJCF Tree Protection Specifications shall be followed throughout duration of work.
- After TPZ is approved:
 - TPZ shall not be resized, modified, removed, or altered in any manner without prior written approval. TPZ shall be maintained in place as approved until removal is authorized by GJCF.
 - Entrance/access to the TPZ is not permitted without prior written approval from the GJCF.
 - No materials, debris, equipment, or site amenities shall be stored within the TPZ without prior written approval from the GJCF.
- While TPZ fencing is in place, trees shall be deep-root watered at an interval of once every two weeks when temperatures are at or above 40 degrees F. Trees shall be watered at the rate of twenty (20) gallons per inch DBH. GJCF may ask for proof of watering.
- Violation of TPZ or damage to protected trees is subject to penalty per City Ordinance.
- Responsible party for tree removal or damage shall be responsible for lost value based on industry standard tree appraisal methods as determined by GJCF

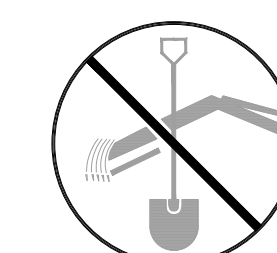
	City of Grand Junction Office of the City Forester 2529 High Country Ct Grand Junction, CO 81501	Tree Protection Zone Fencing Detail	Detail: GJCF-TPZ 1 Effective: 11-15-2020
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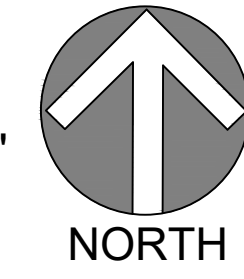
1 TREE REMOVAL AND PROTECTION PLAN
SCALE: 1"=20'-0"

Plan Notes:

- All tree protection and tree removal work on this plan shall be included in the Fire Station #3 construction contract.
- The three crabapple trees along 25 1/2 Road shall be removed. Grind the stumps and haul all debris from the site. Prepare for new sod.
- Tree protection is required for all 13 existing trees shown on this plan. The contractor must follow the GJCF specifications and details shown on this sheet.
- Keep a safe distance from the tree protection zones. Contact the city forester if any construction activities interfere with the tree protection zones.



UTILITY NOTIFICATION
CENTER OF COLORADO
CALL 811
LOCATION OF UTILITIES SHOWN HEREON
WAS PROVIDED BY OTHERS. CONTRACTOR
MUST VERIFY LOCATION OF ALL EXISTING
UTILITIES PRIOR TO CONSTRUCTION.



**TREE REMOVAL AND
PROTECTION PLAN**

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/25/2021

PROJECT #: 2072

SHEET #:

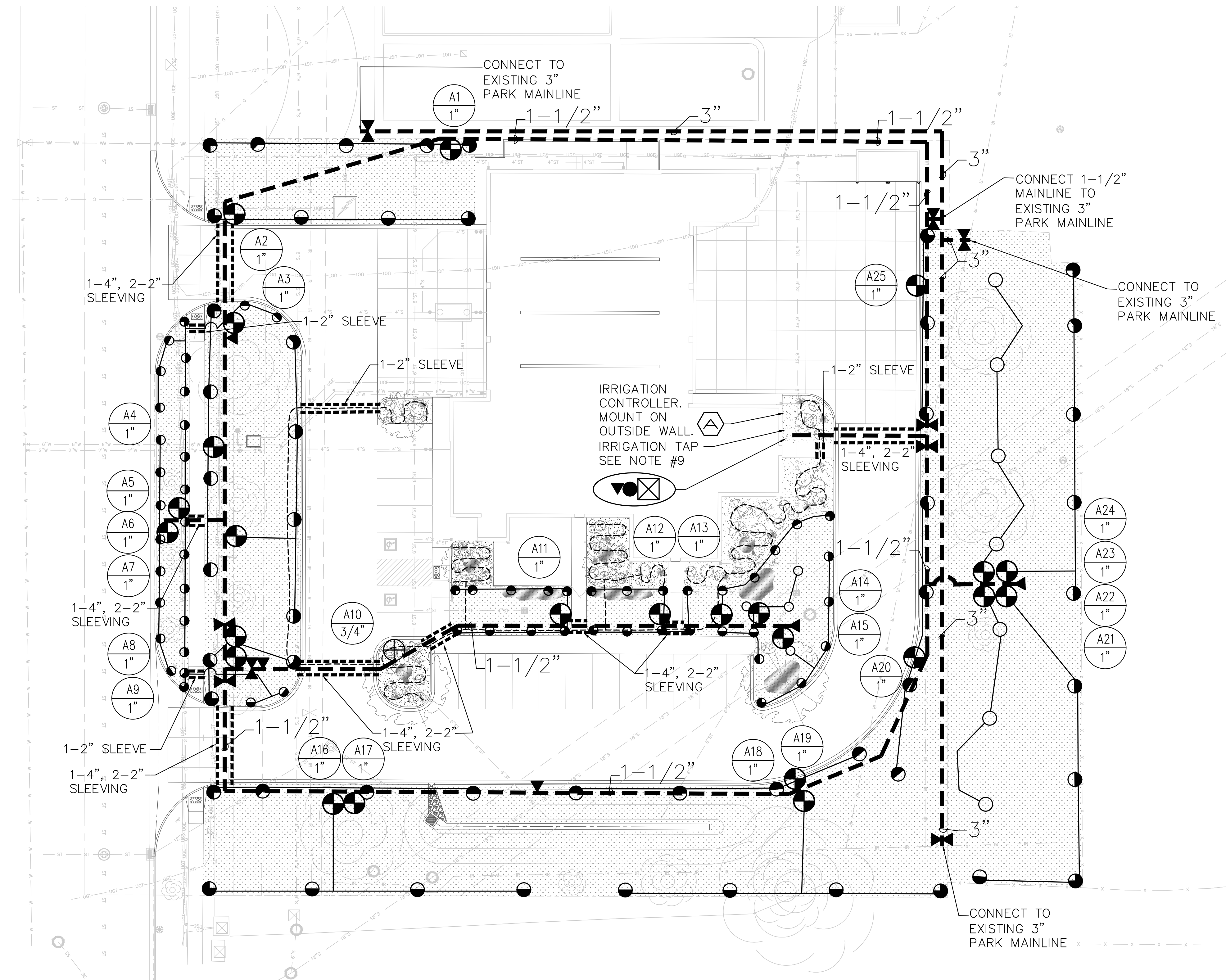
IRRIGATION SCHEDULE

SYMBOL	MODEL	DESCRIPTION	DETAIL
●●●●●●●●	1806 - SAM-PRS W/ 15 SER. NOZZLE	RAINBIRD POP UP SPRAY HEAD	1
●	5006+-R-SAM-SS-2.5	RAINBIRD ROTOR	2
○●●●●	5006+-R-SAM-SS-3.0	RAINBIRD ROTOR	2
●	PEB-PRS-D SERIES	RAINBIRD CONTROL VALVE	3
⊗	LINE SIZE	GATE VALVE	4
⊕	5"	DRIP VALVE	5
▼	44LRC	RAINBIRD QUICK COUPLER	6
⊗	825YA-3/4"	FEBCO BACKFLOW PREVENTER	8
⊕	ESP-LXME SERIES 28 STATION	RAINBIRD CONTROLLER - PEDESTAL MOUNT	
---	CL. 200 B.E. (1-1/2") CL. 200 R.T. (3")	PVC MAINLINE	
---	CL. 200 B.E. (1")	PVC LATERALS - 1" UNLESS OTHERWISE NOTED	
---	CL. 200	PVC SLEEVING	
---	3/4"	DRIP TUBING	
○	CONTROLLER NUMBER VALVE SIZE		
●	PEB SERIES - 3/4"	RAINBIRD MASTER VALVE	

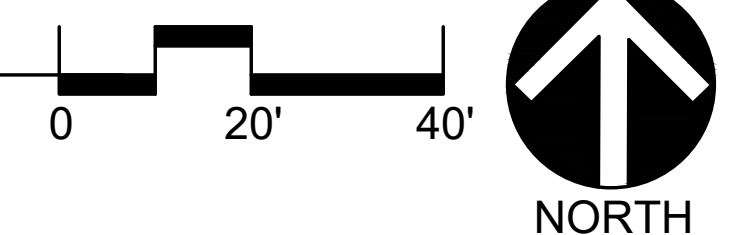
IRRIGATION NOTES

- REFER TO SPECIFICATIONS AND DETAILS FOR INSTALLATION INSTRUCTIONS.
- ALL BASE PLAN INFORMATION HAS BEEN TAKEN FROM DRAWINGS PREPARED BY MRLA, INC.
- IRRIGATION SYSTEM IS DESIGNED FOR A STATIC WATER PRESSURE OF 70 PSI. CONTRACTOR IS TO VERIFY PRESSURE PRIOR TO INSTALLATION OF IRRIGATION SYSTEM AND NOTIFY LANDSCAPE ARCHITECT WITH VERIFICATION FIGURES. FAILURE TO NOTIFY LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR TAKING RESPONSIBILITY FOR ANY ALTERATIONS AT HIS/HER OWN COST.
- INSTALL DRIP EMITTERS IN BED AREAS AS DESCRIBED BELOW:

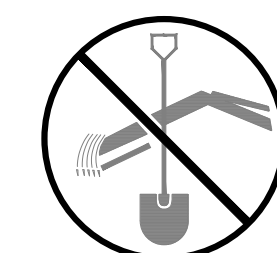
GROUND COVER	RAINBIRD XB-05PC	1 EA. 12" RADIUS, 15" O.C.
1 GALLON MAT'L.	RAINBIRD XB-05PC	1 EA.
5 GALLON MAT'L.	RAINBIRD XB-05PC	2 EA.
DECIDUOUS TREES (11" - 2" CAL.)	RAINBIRD XB-10PC	3 EA.
DECIDUOUS TREES (3"-4" CAL.)	RAINBIRD XB-10PC	4 EA.
PINE TREES (6'-10')	RAINBIRD XB-10PC	2 EA.
PINE TREES (11'-14')	RAINBIRD XB-10PC	3 EA.
- CONTRACTOR TO COORDINATE INSTALLATION OF SLEEVING WITH INSTALLATION OF PAVING AND SIDEWALKS.
- USE RAINBIRD 12 SERIES NOZZLES FOR SPRAY HEADS SPACED LESS THAN 13'.
- USE RAINBIRD 10 SERIES NOZZLES FOR SPRAY HEADS SPACED LESS THAN 11'.
- ELECTRICAL POWER TO THE NEW CONTROLLER IS SUPPLIED BY CONTRACTOR.
- TAP LOCATION:
CONNECT TO NEW 3/4" COPPER LINE STUB AND INSTALL 3/4" COPPER, 3/4" STOP AND WASTE VALVE, 3/4" BACKFLOW PREVENTER, 3/4" PRV, 3/4" MASTER VALVE AND EXTEND 1-1/2" MAINLINE AS SHOWN. INSTALL MASTER VALVE IN SEPARATE CARSON #1419-13B VALVE BOX. INSTALL STRONGBOX #SBBC-30 A.L. BACKFLOW PREVENTER CAGE. INSTALL TAP, METER AND ALL RELATED EQUIPMENT AS PER CITY SPECIFICATIONS AND DETAILS.
- PLAN HAS BEEN PREPARED USING LIMITED ON SITE OBSERVATION. PLAN IS DIAGRAMMATIC AND DOES NOT REFLECT ALL EQUIPMENT, ETC., THAT COULD BE ENCOUNTERED DURING CONSTRUCTION. ALL TIE-IN LOCATIONS, MAINLINE LOCATIONS AND LATERAL LOCATIONS ARE APPROXIMATE AND SHALL REQUIRE EXACT LOCATION BY CONTRACTOR.
- IN EXISTING PLANTING AND SOD AREAS, CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THESE AREAS IN A HEALTHY STATE DURING CONSTRUCTION. ANY DAMAGE TO PLANTING OR SOD DUE TO NEGLIGENCE BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
- TURN OVER TO THE OWNER ALL EXISTING IRRIGATION EQUIPMENT (I.E.: HEADS, VALVES, ETC.) THAT IS REMOVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES, CURB AND GUTTER, WALLS, EXISTING IRRIGATION, OR WALKWAYS AND OTHER EXISTING STRUCTURES THAT IS A RESULT OF HIS/HER WORK. THE REPAIR OF SUCH DAMAGE WILL BE AT NO ADDITIONAL COST TO THE OWNER.
- ADJUST, EXTEND, CAP REMOVE AND RE-INSTALL EXISTING IRRIGATION IN THE AREAS DISTURBED BY CONSTRUCTION FOR PROPER 100% IRRIGATION COVERAGE.
- INSTALL THRUST BLOCKS FOR ALL 3" MAINLINE FITTINGS.



1 IRRIGATION PLAN
SCALE: 1"=20'-0"



IDC
IRRIGATION DESIGN & CONSULTING, INC.
303-442-7027
303-665-6485 - FAX



UTILITY NOTIFICATION
CENTER OF COLORADO
CALL 811
LOCATION OF UTILITIES SHOWN HEREON
WAS PROVIDED BY OTHERS. CONTRACTOR
MUST VERIFY LOCATION OF ALL EXISTING
UTILITIES PRIOR TO CONSTRUCTION.

BG+ co.

Architecture
Interior Design
Project Management

622 Road Avenue
Grand Junction, CO 81501
970-242-1058 office

BLYTHE GROUP + co.

MRLA

MITCH REWOLD LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECTURE AND
LAND PLANNING

386 34 1/2 Road
Pallisade, Colorado 81526 (970) 361-4345

GRAND JUNCTION
FIRE DEPARTMENT
FIRE STATION #3

580 25 1/2 ROAD
GRAND JUNCTION, CO 81505

IRRIGATION PLAN

FOR CONSTRUCTION

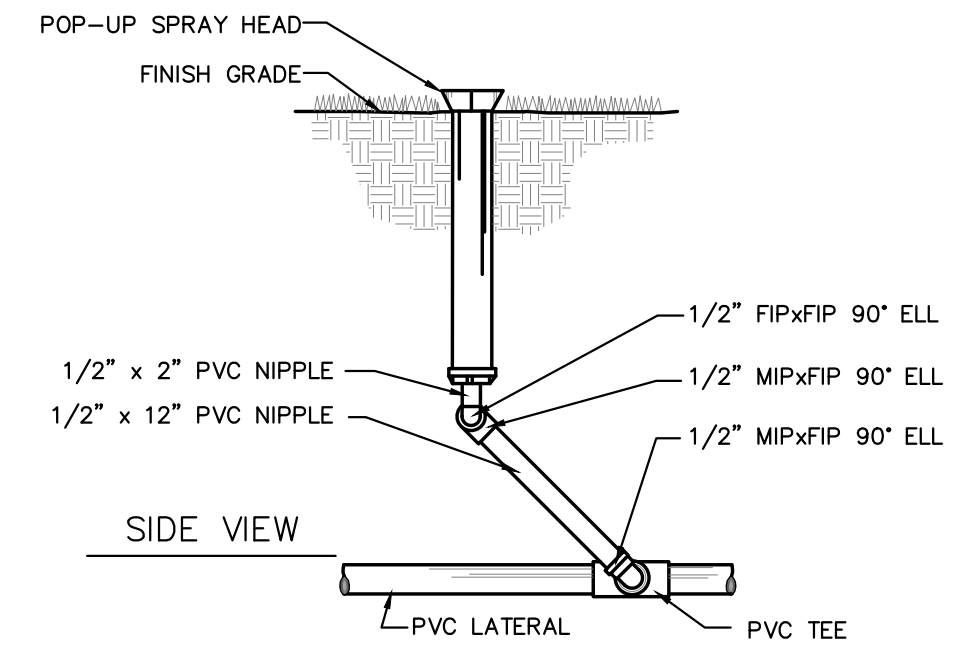
REV. DESC. DATE:

DATE: 02/25/2021

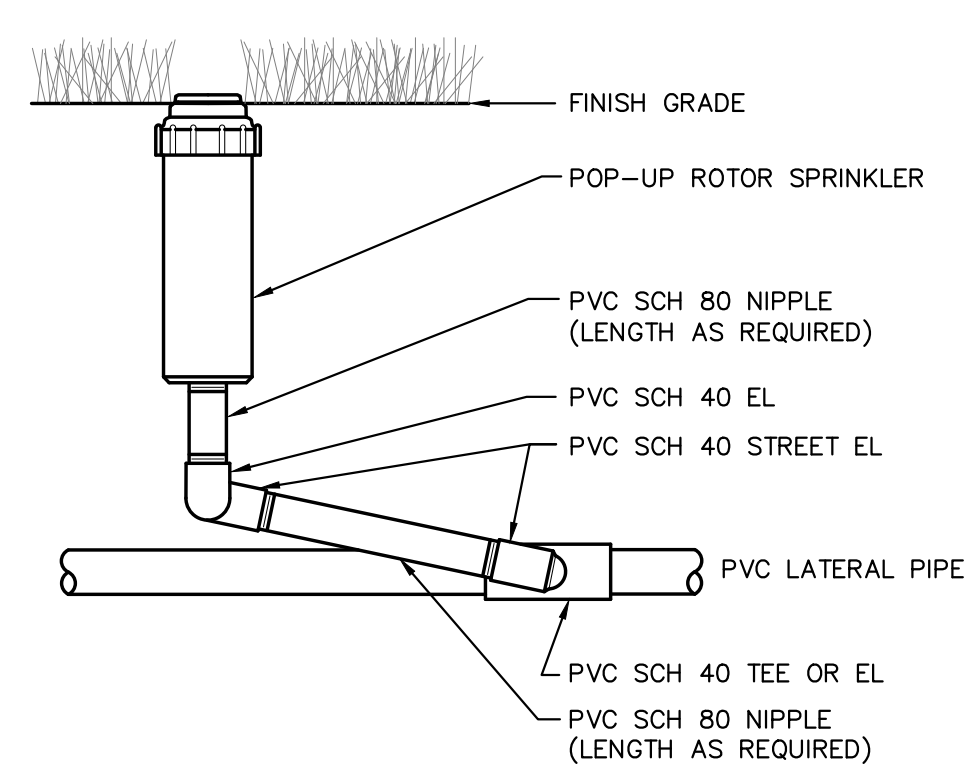
PROJECT #: 2072

SHEET #:

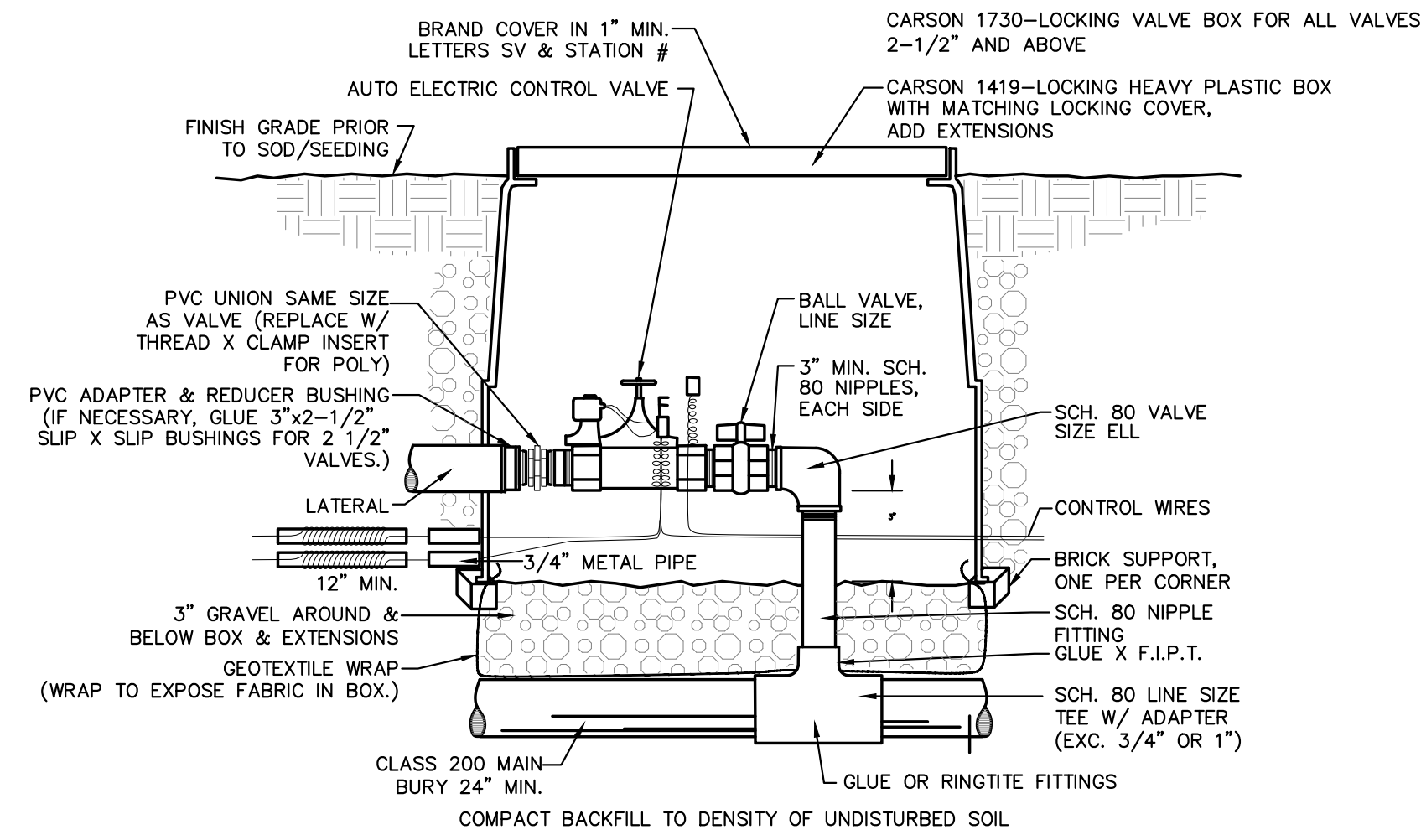
IR1-0



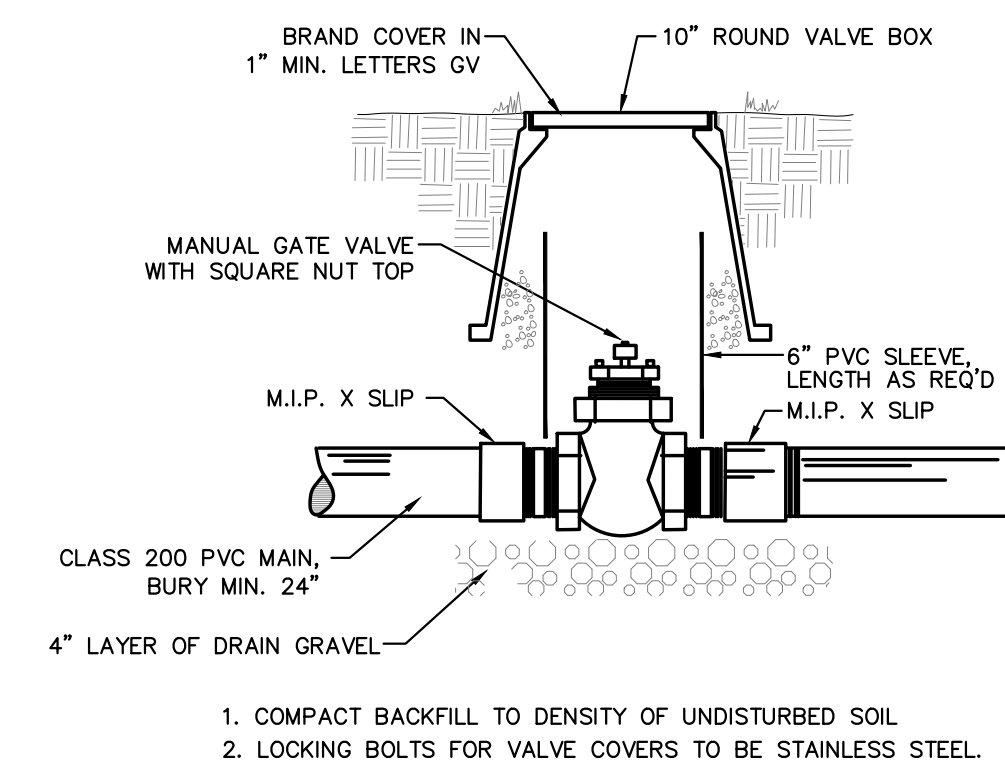
1 POP-UP SPRAY HEAD



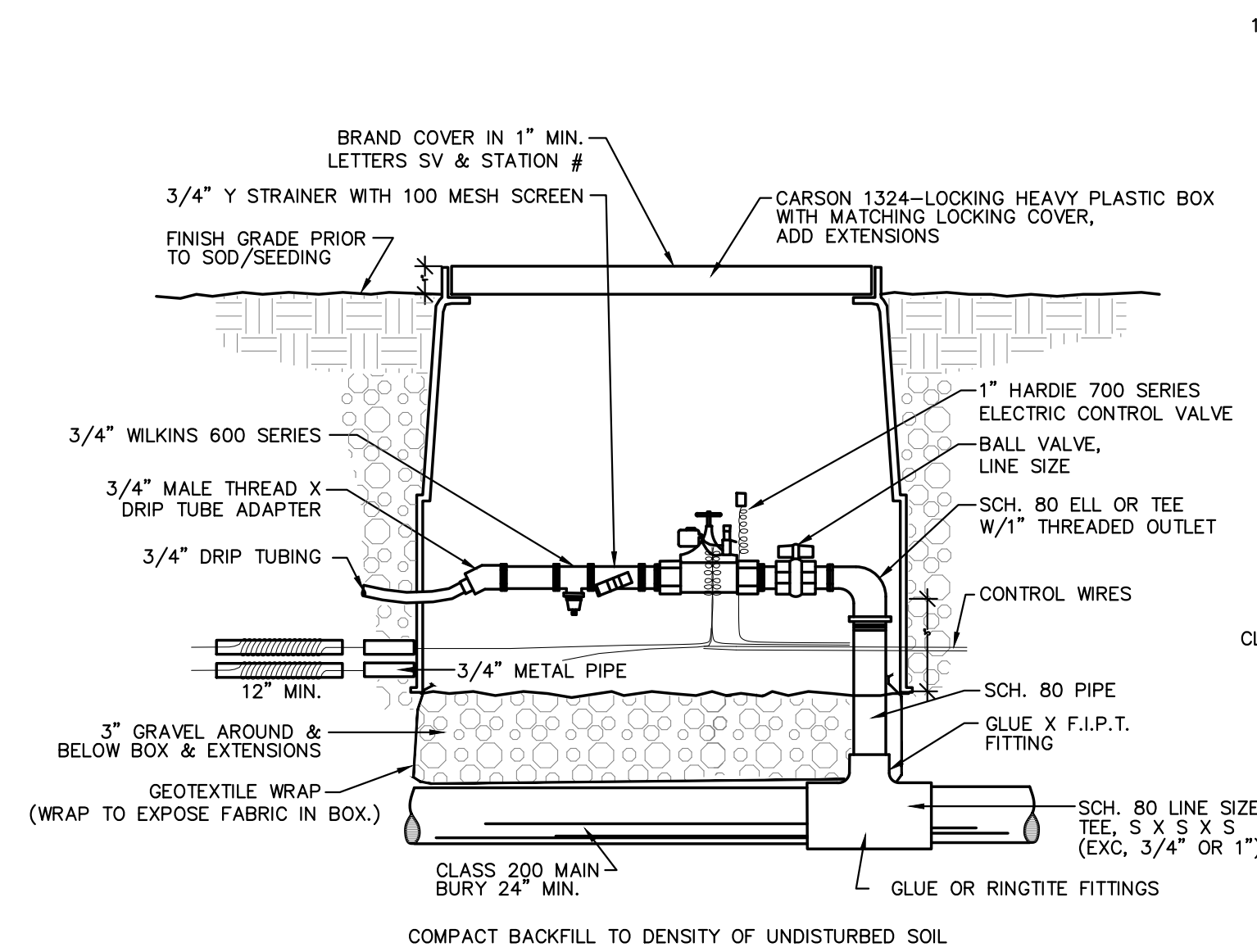
2 POP-UP ROTOR HEAD



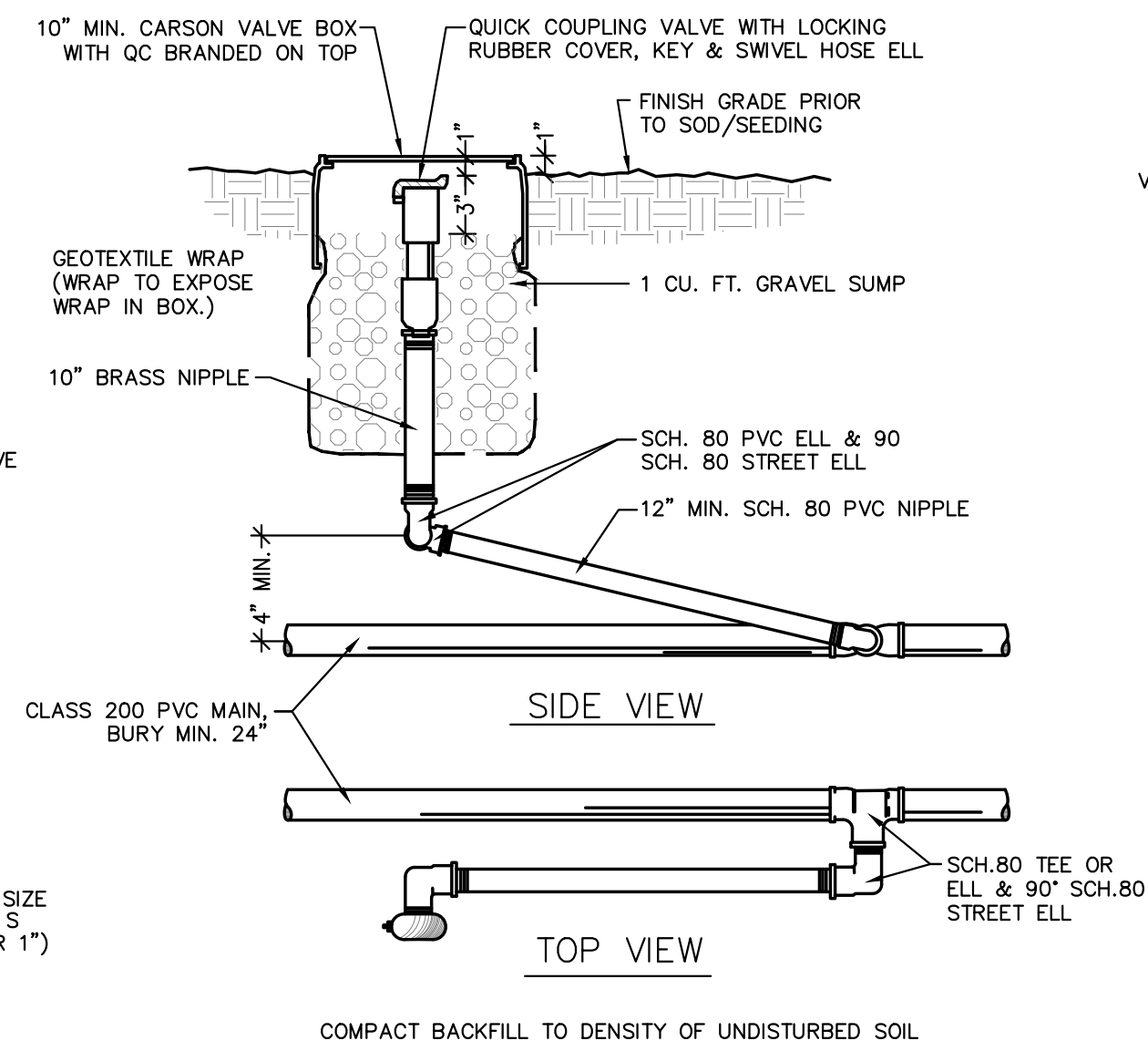
3 CONTROL VALVE



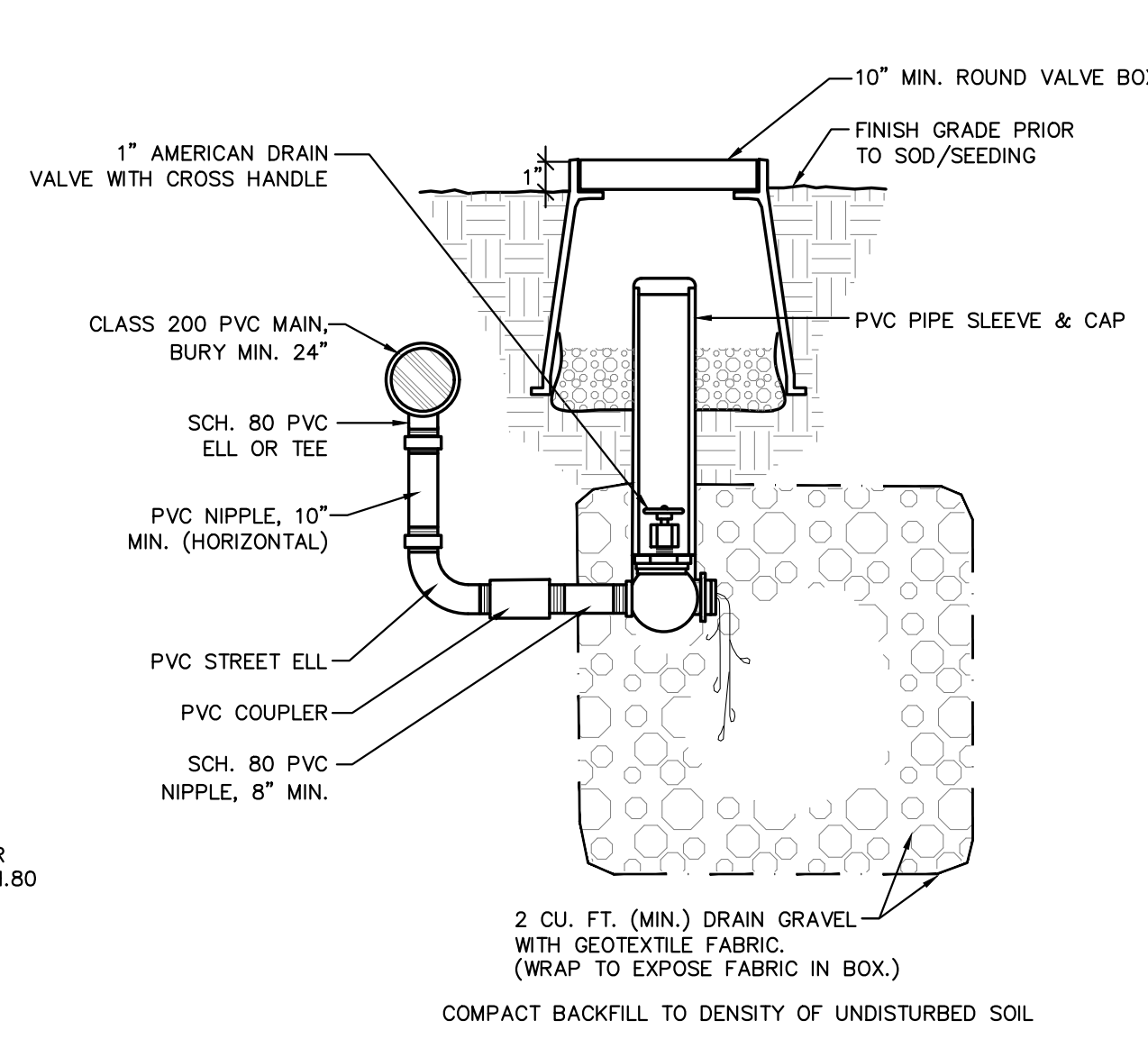
4 ISOLATION GATE VALVE



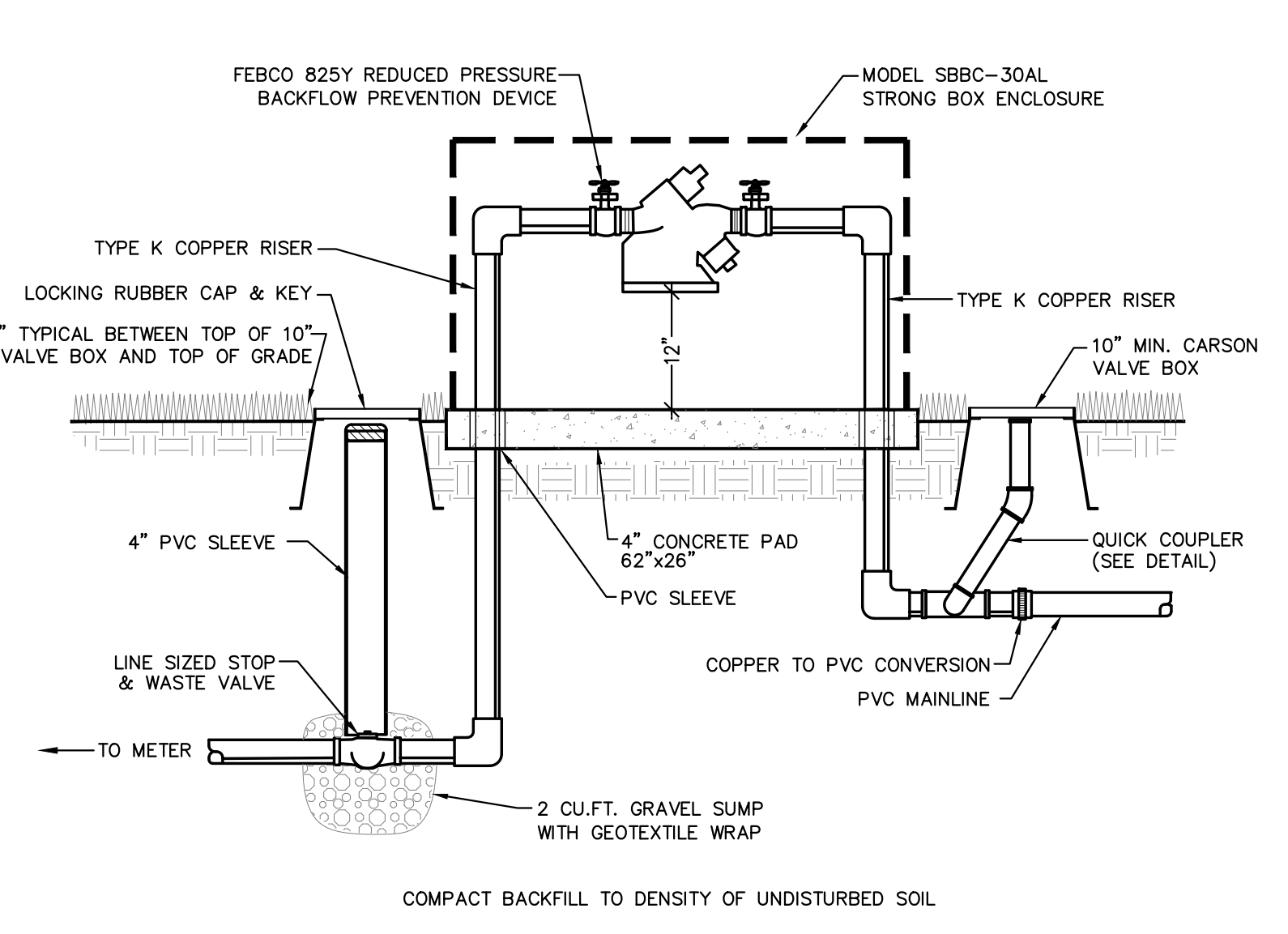
5 DRIP VALVE



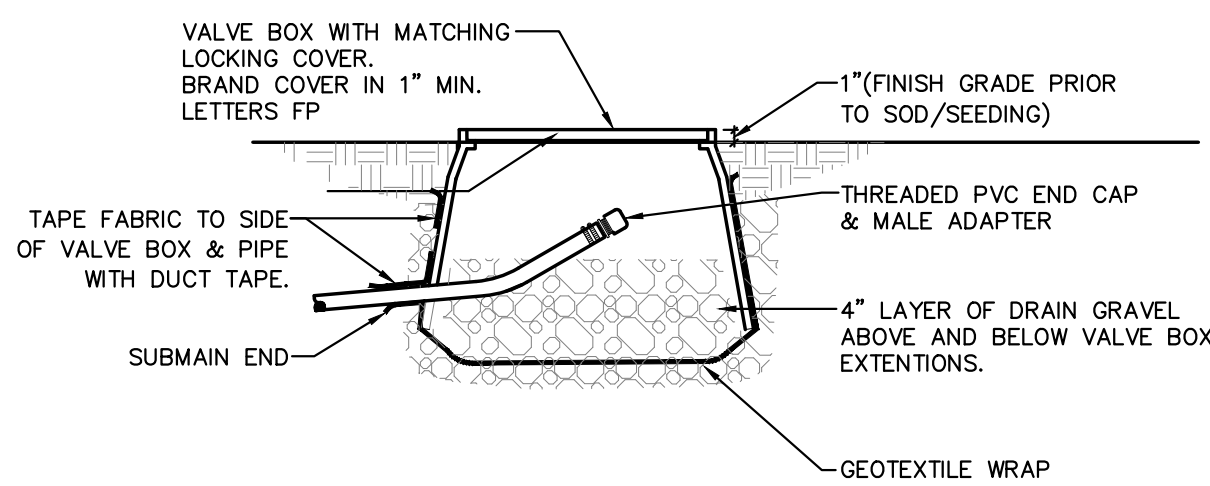
6 QUICK COUPLER



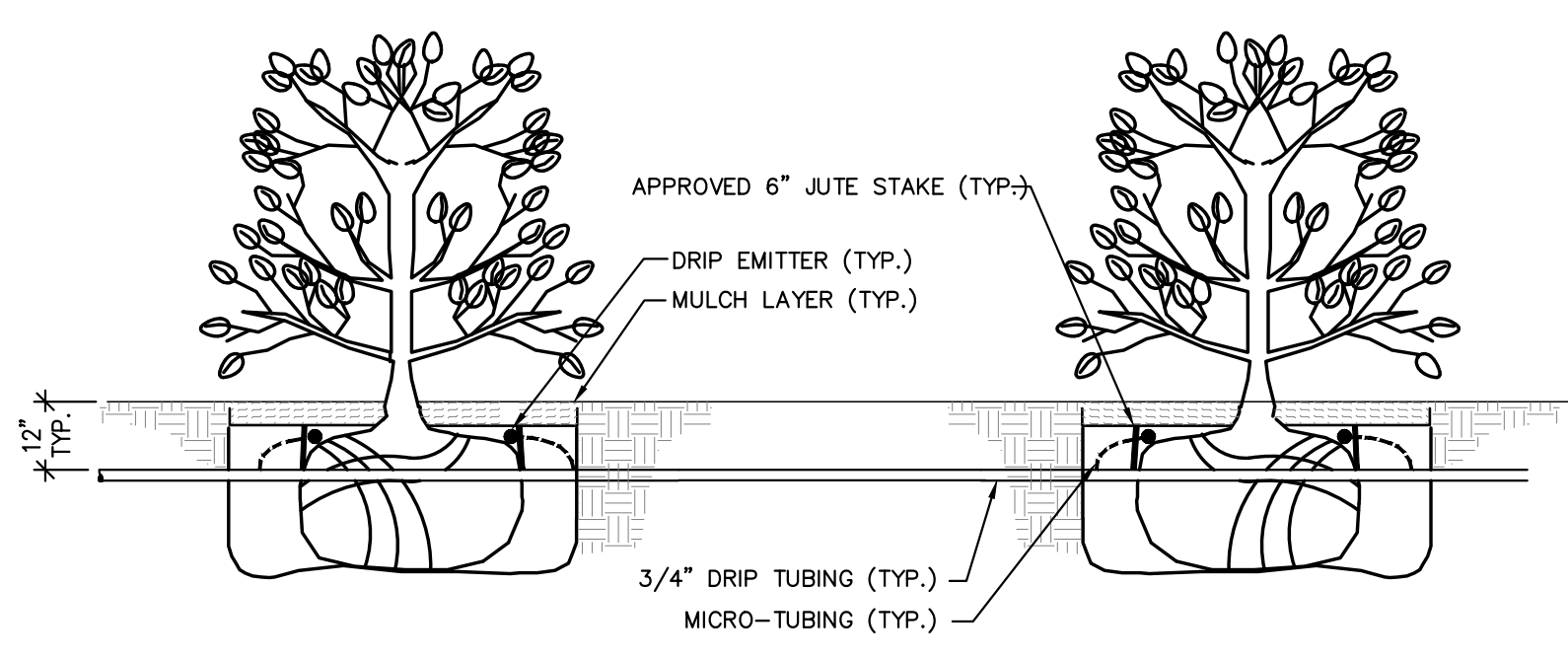
7 DRAIN VALVE



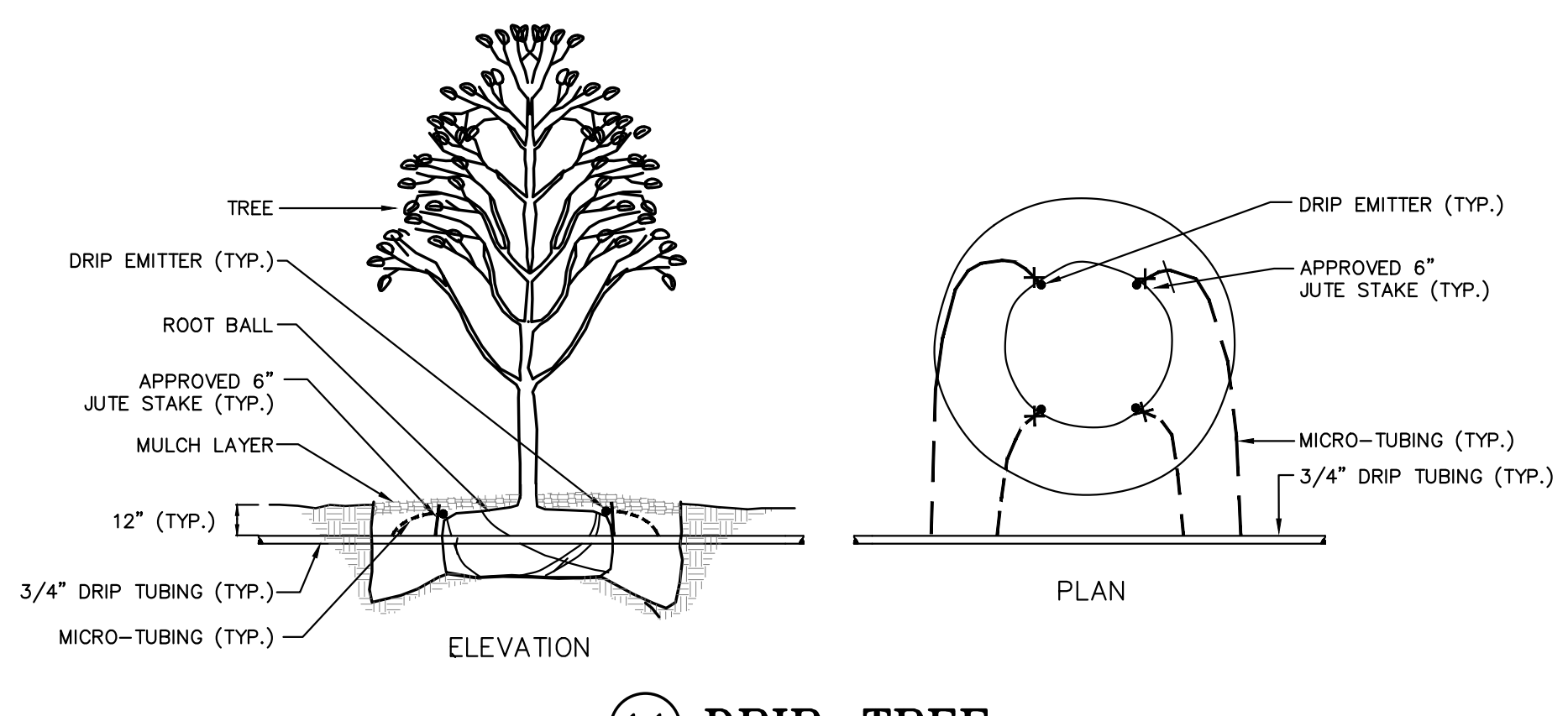
8 REDUCED PRESSURE BACKFLOW PREVENTER



9 DRIP-BLOWOUT

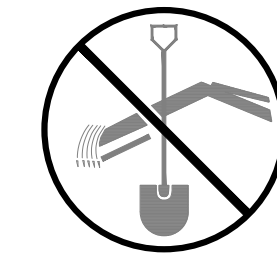


10 DRIP-SHRUB



11 DRIP-TREE

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IRRIGATION DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

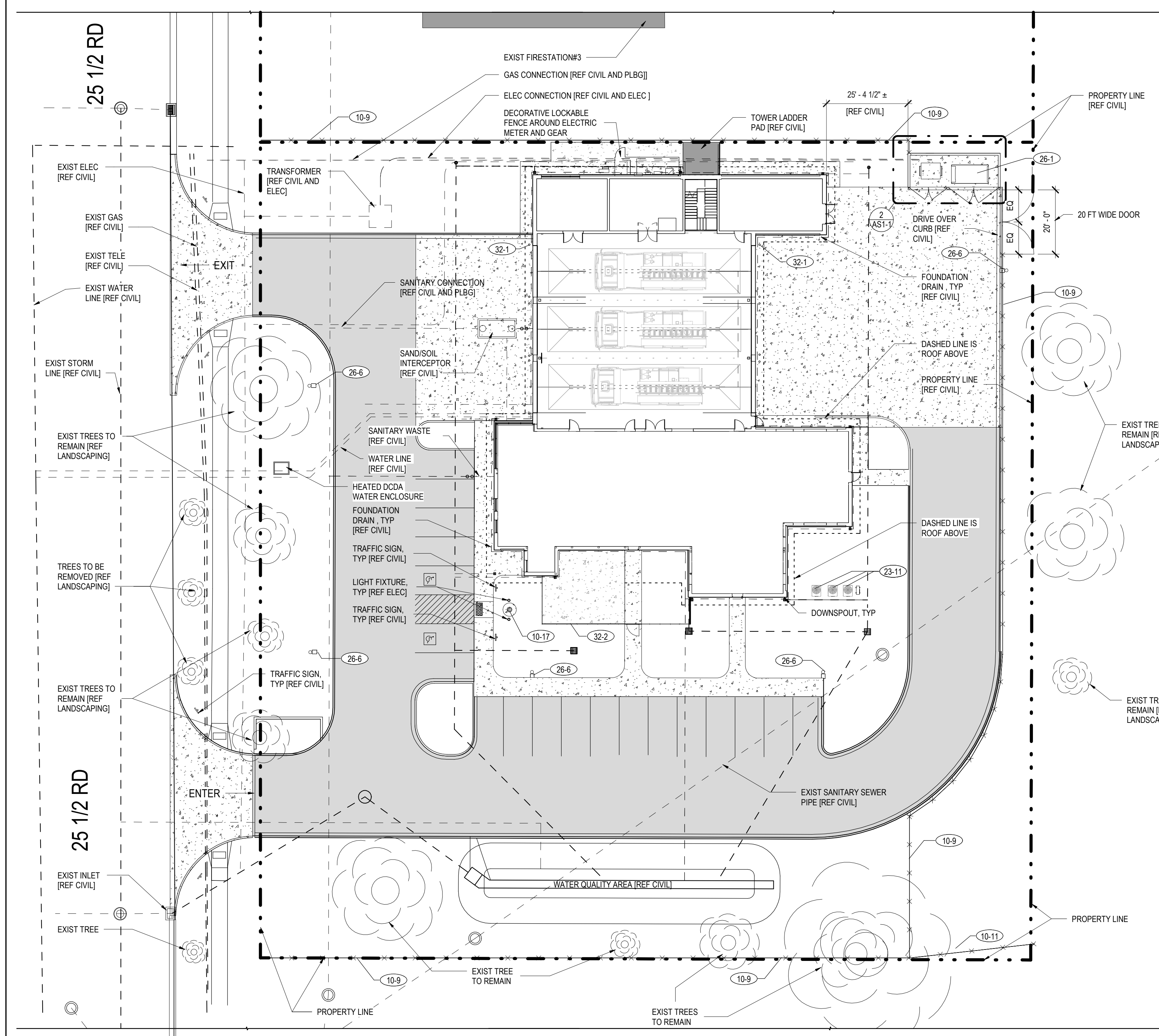
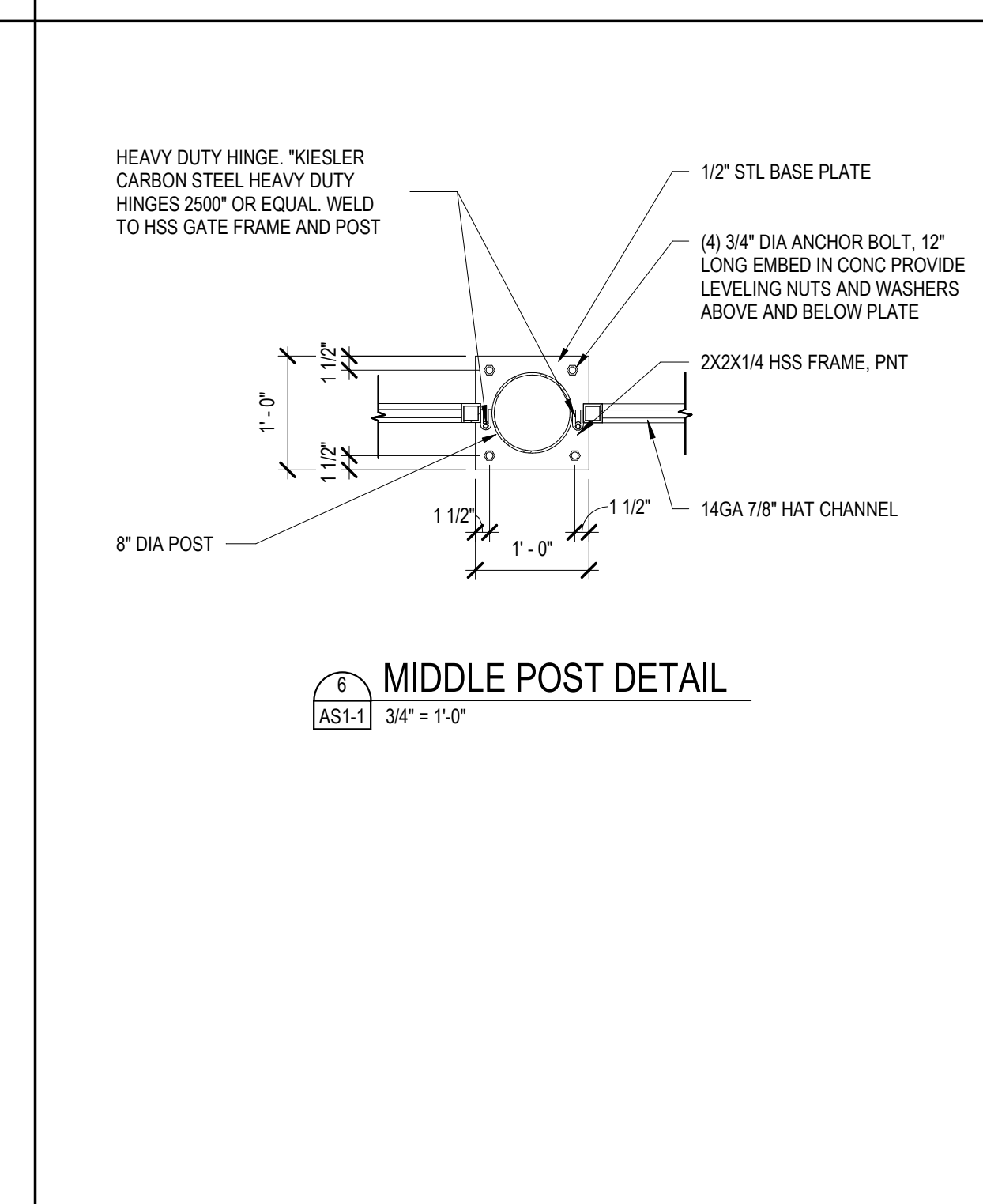
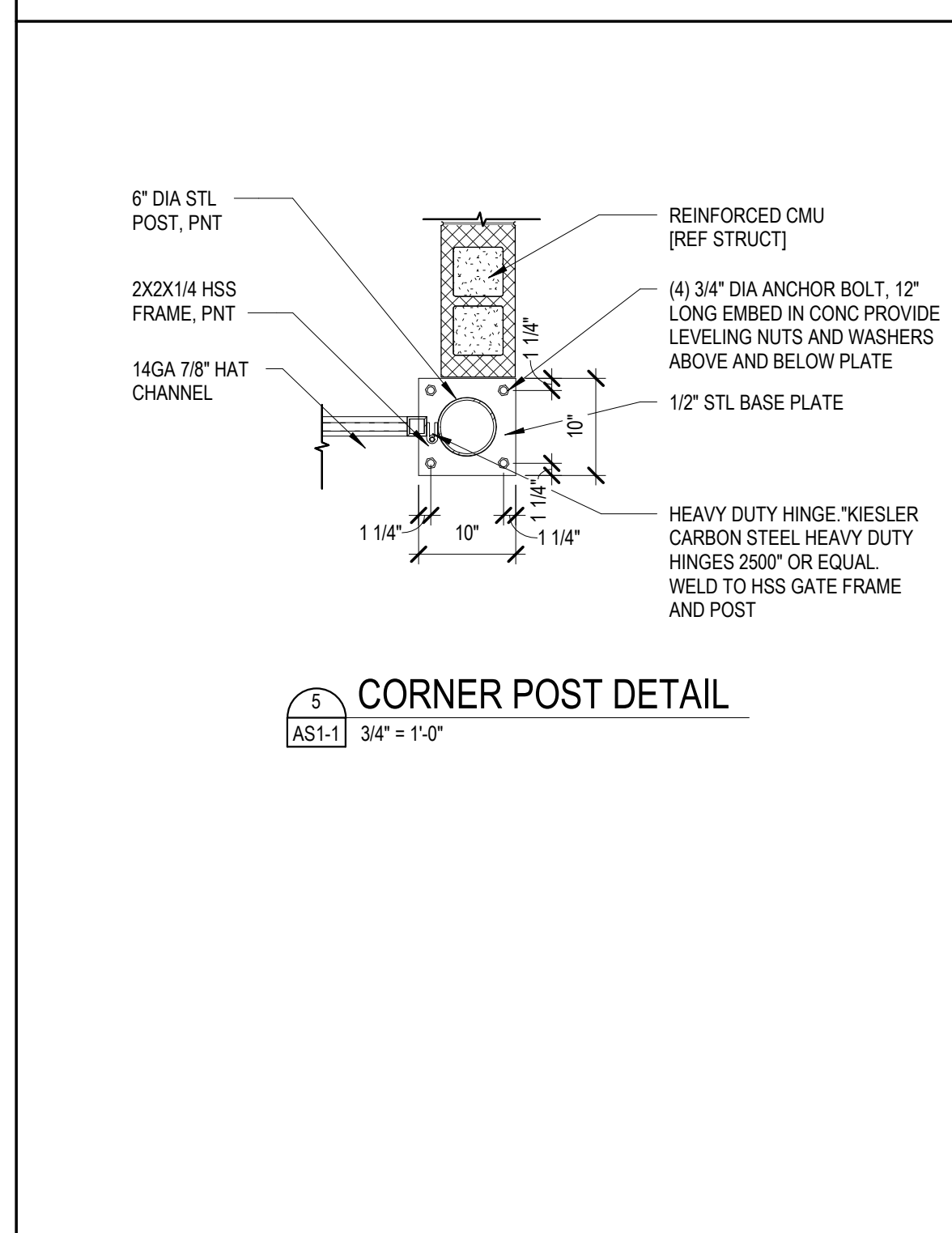
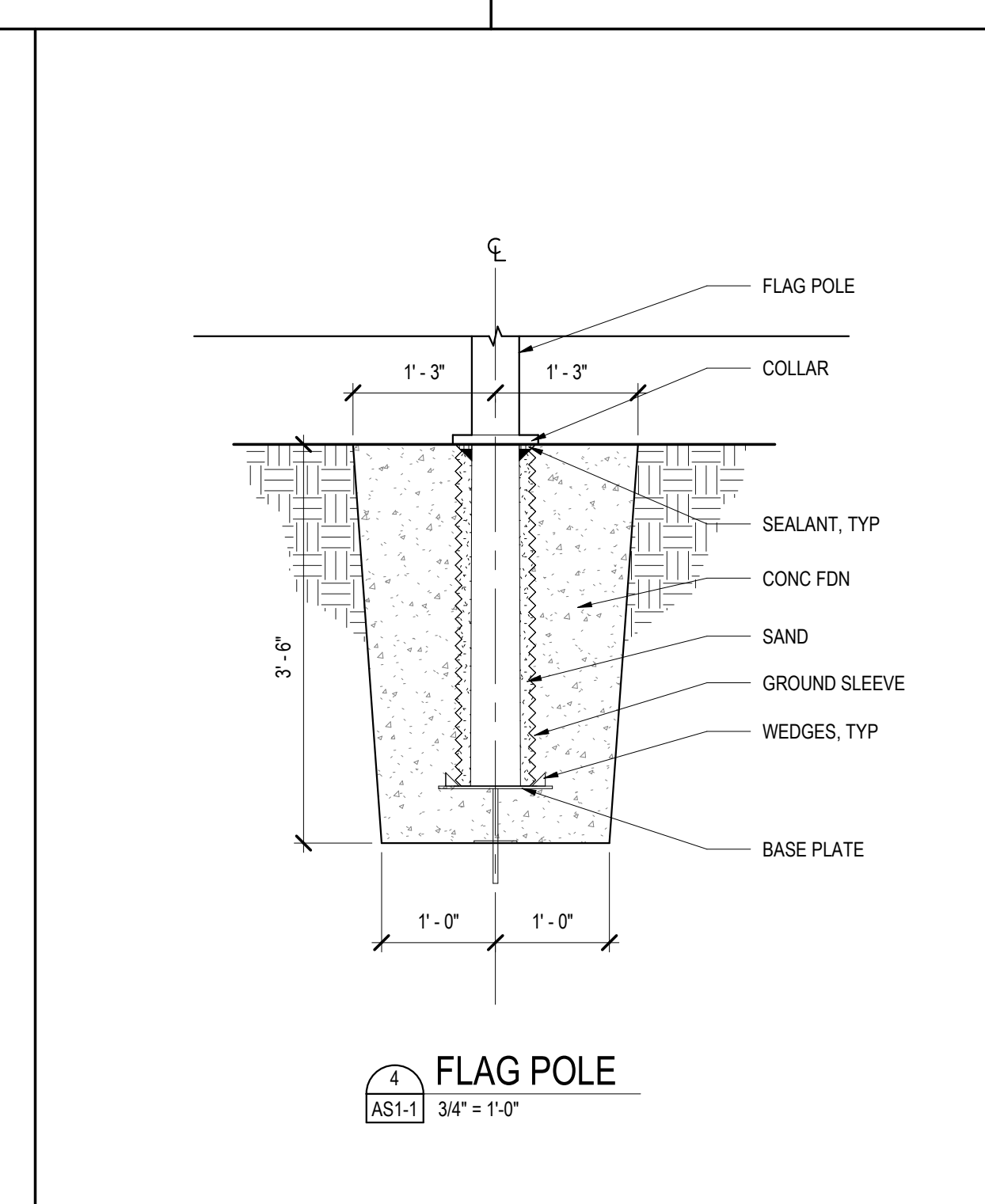
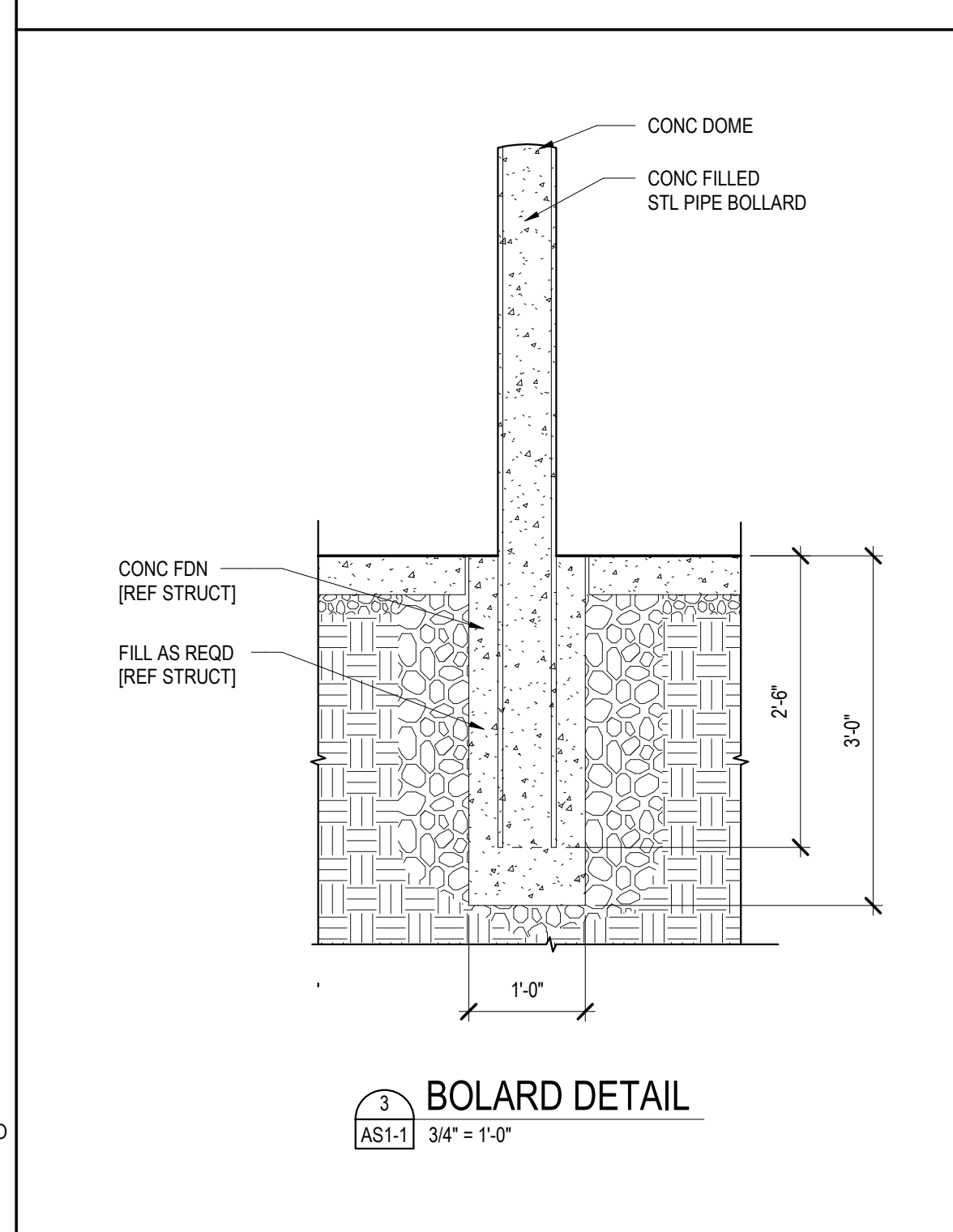
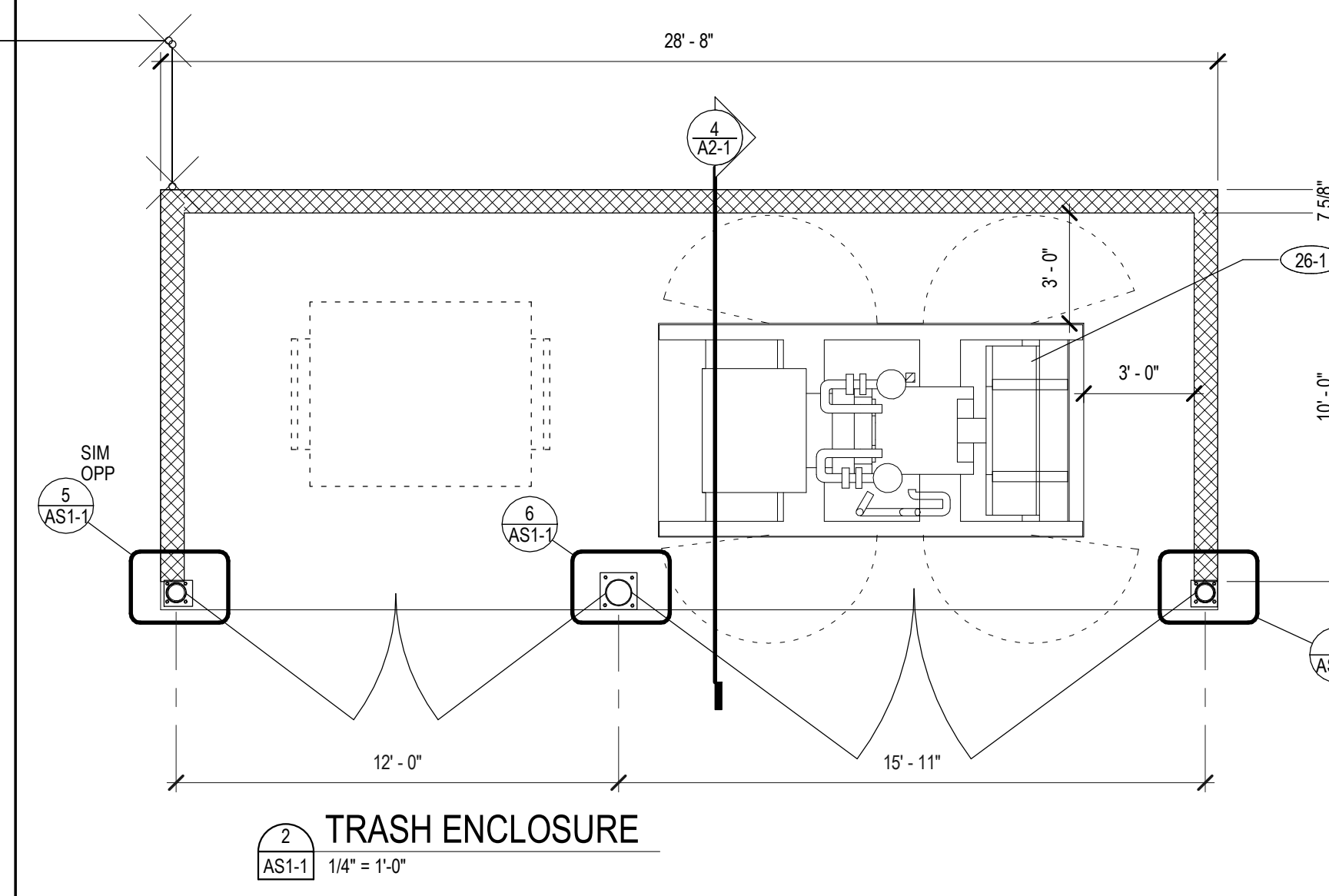
DATE: 02/25/2021

PROJECT #: 2072

SHEET #:

IR1-1

KEYNOTE LEGEND	
10-9	NEW 6 FT TALL DECORATIVE FENCE
10-11	EXISTING CHAIN LINK FENCE TO REMAIN, VIF
10-17	FLAGPOLE
23-11	MECH EQUIP (REF MECH)
26-1	EMERGENCY GENERATOR (REF ELEC)
26-6	SITE POLE LIGHTING, TYP (REF ELEC)
32-1	BOLLARD, TYP
32-2	PRIVACY FENCE

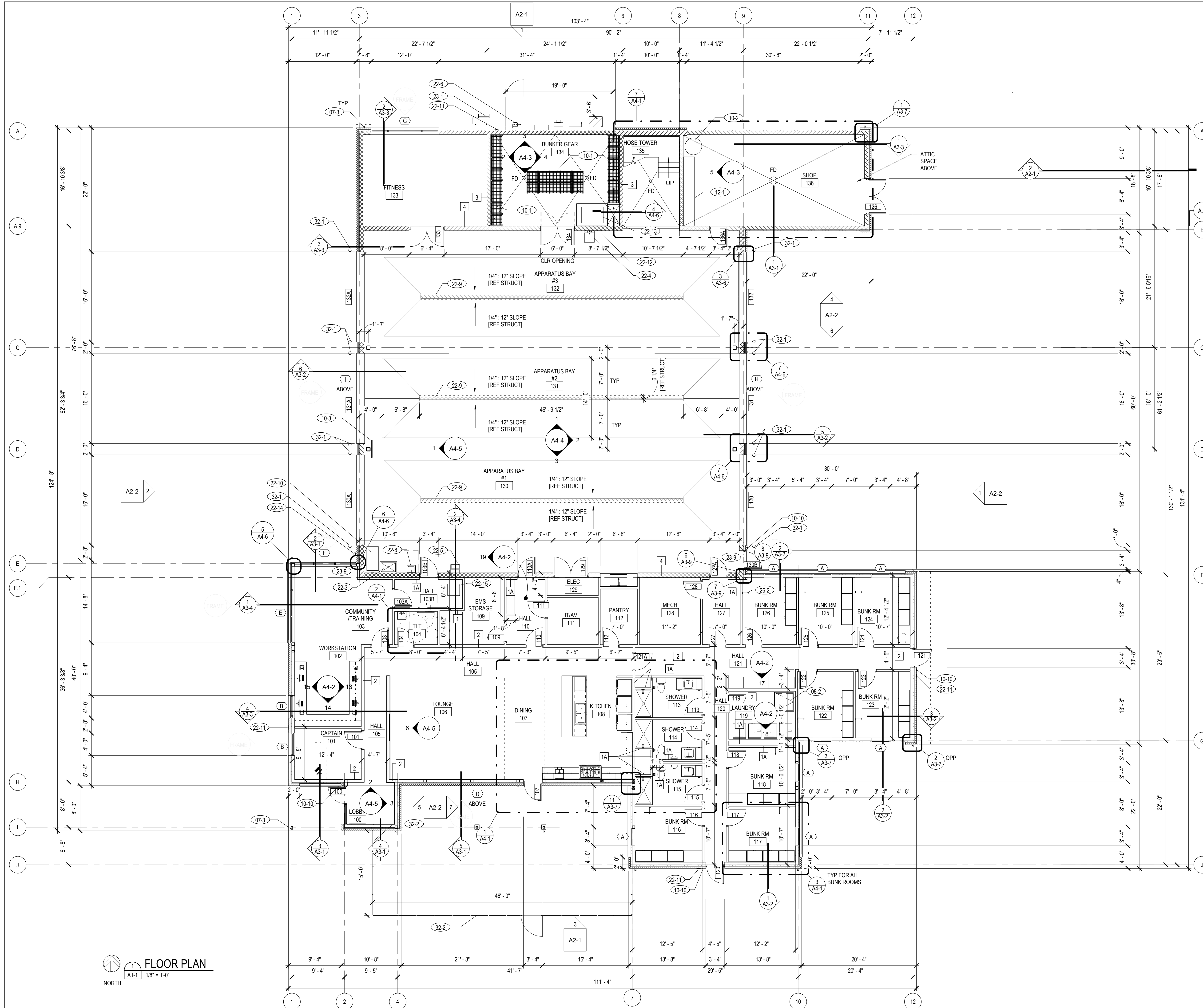


SITE PLAN
AS1-1 1" = 20'-0"
NORTH

KEYNOTE LEGEND	
07-3	DOWN SPOUT, TYP
08-2	CRAWL SPACE ACCESS DOOR
10-1	GEAR LOCKER, FBO, TYP
10-2	AIR COMPRESSOR, FBO CONTRACTOR INSTALLED
10-3	40" FLAT SCREEN TV, FBO CENTER ON COLUMN, PROVIDE OUTLET BEHIND TV [REF ELEC]
10-10	CARD READER
12-1	WORK BENCH, FBO
22-3	MOP SINK [REF PLBG]
22-4	UTILITY SINK [REF PLBG]
22-5	EWC [REF PLBG]
22-6	GAS METER [REF PLBG]
22-8	SINK [REF PLBG]
22-9	TRENCH DRAIN [REF PLBG]
22-10	FIRE SPRINKLER RISER ASSEMBLY [REF PLBG]
22-11	HOSE BIB [REF PLBG]
22-12	HOSE REEL [REF PLBG]
22-13	EXTRACTION WASHER FBO
22-14	FIR DEPARTMENT CONNECTION [REF PLBG / CIVIL]
22-15	ICE MAKER [REF PLBG]
23-1	HEAT PUMP [REF MECH]
23-9	EXHAUST SYSTEM SENSOR, MOUNT SENSOR BELOW HOSE REEL SHOWN BEYOND AT EAST AND WEST WALLS [REF MECH]
26-2	LIGHT FIXTURE, TYP [REF ELEC]
32-1	BOLLARD, TYP
32-2	PRIVACY FENCE

LEGEND	
	CMU
	WALL
	DOOR
	BRICK

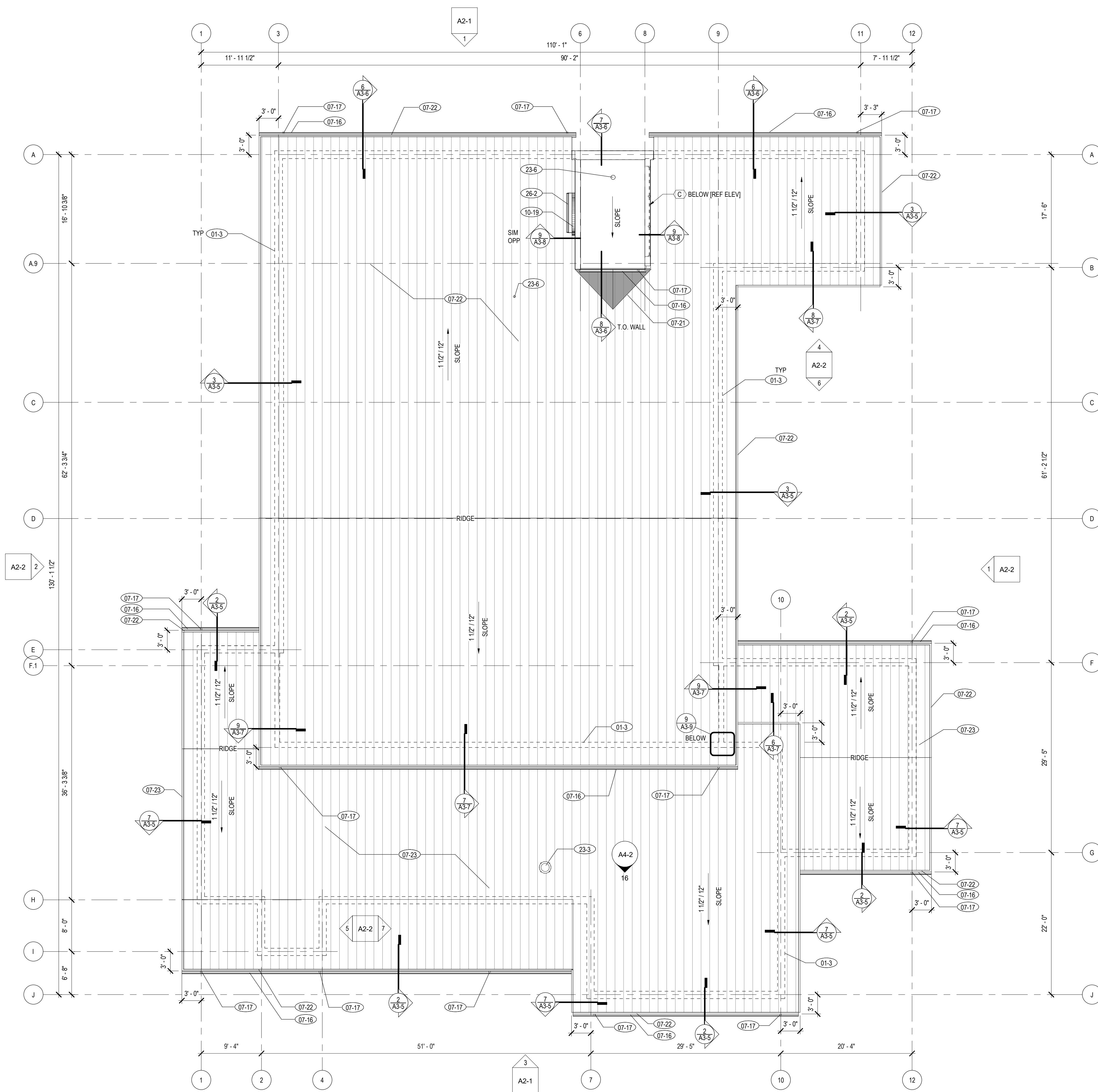
- GENERAL NOTES**
- ALL INTERIOR PARTITIONS ARE TYPE 1, UNO. REFERENCE DRAWING SHEET G3-1 FOR ADDITIONAL WALL TYPES AND CONSTRUCTION.
 - INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
 - EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC. UNO.
 - REFERENCE ROOM FINISH SCHEDULE FOR INTERIOR FINISHES.



FLOOR PLAN
A1-1 | 1/8" = 1'-0"
NORTH

KEYNOTE LEGEND

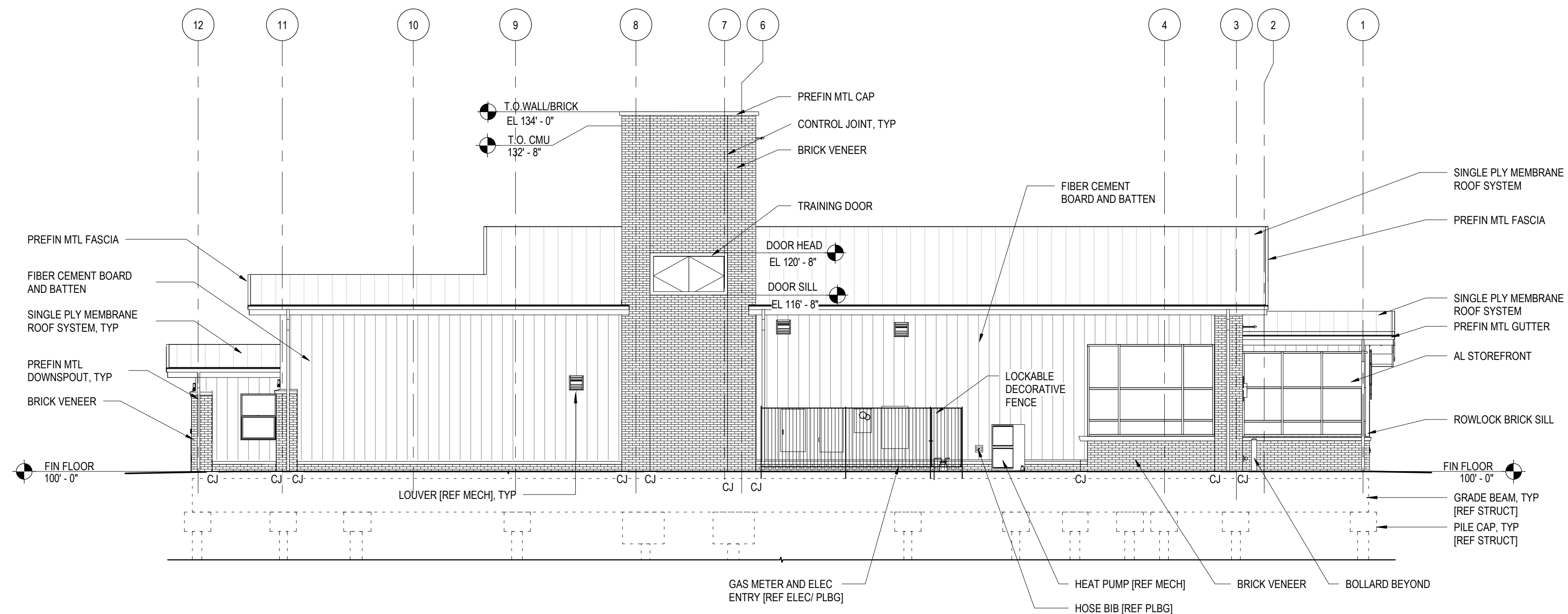
01-3	DASHED LINES OF EXTERIOR WALLS BELOW
07-16	PREFINISHED METAL GUTTER
07-17	PREFINISHED METAL DOWNSPOUT
07-21	CRICKET
07-22	PREFINISHED METAL FASCIA
07-23	MEMBRANE ROOFING PROVIDE DECORATIVE THERMOPLASTIC POLYOLEFIN (TPO) RIB CONTOURS, SPACED AT 18 INCHES O.C. FULLY ADHERED TO ROOFING MEMBRANE TO SIMULATE THE APPEARANCE OF A STANDING SEAM METAL ROOFING SYSTEM
10-19	SIGNAGE [REF EXTERIOR ELEVATIONS]
23-3	EXHAUST FAN [REF MECH]
23-6	VENT PENETRATION [REF MECH]
26-2	LIGHT FIXTURE, TYP [REF ELEC]



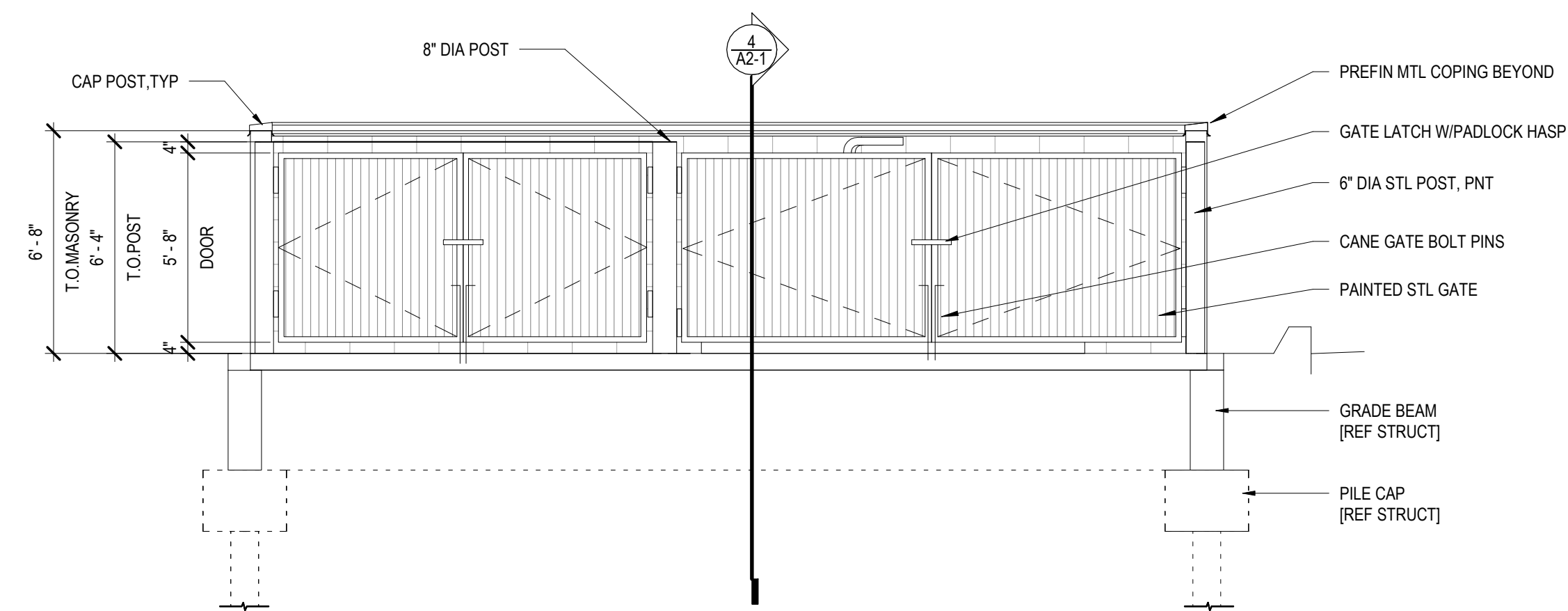
ROOF PLAN
1
A1-2
1/8" = 1'-0"
NORTH

GENERAL NOTES

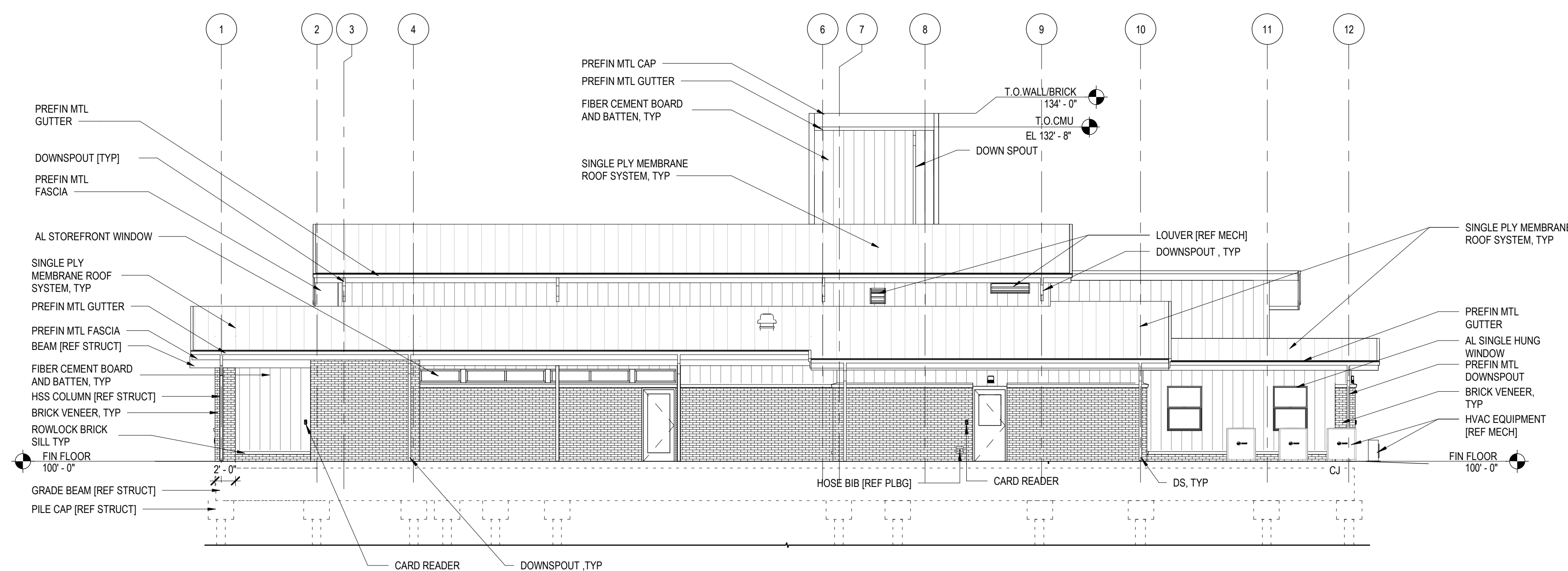
- ALL INTERIOR PARTITIONS ARE TYPE 1, UNO. REFERENCE DRAWING SHEET A3-1 FOR ADDITIONAL WALL TYPES & CONSTRUCTION.
- INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
- EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
- REFERENCE ROOM FINISH SCHEDULE FOR INTERIOR FINISHES.
- DIMENSIONS TO EXISTING WALLS ARE TO FINISH FACE, UNO.



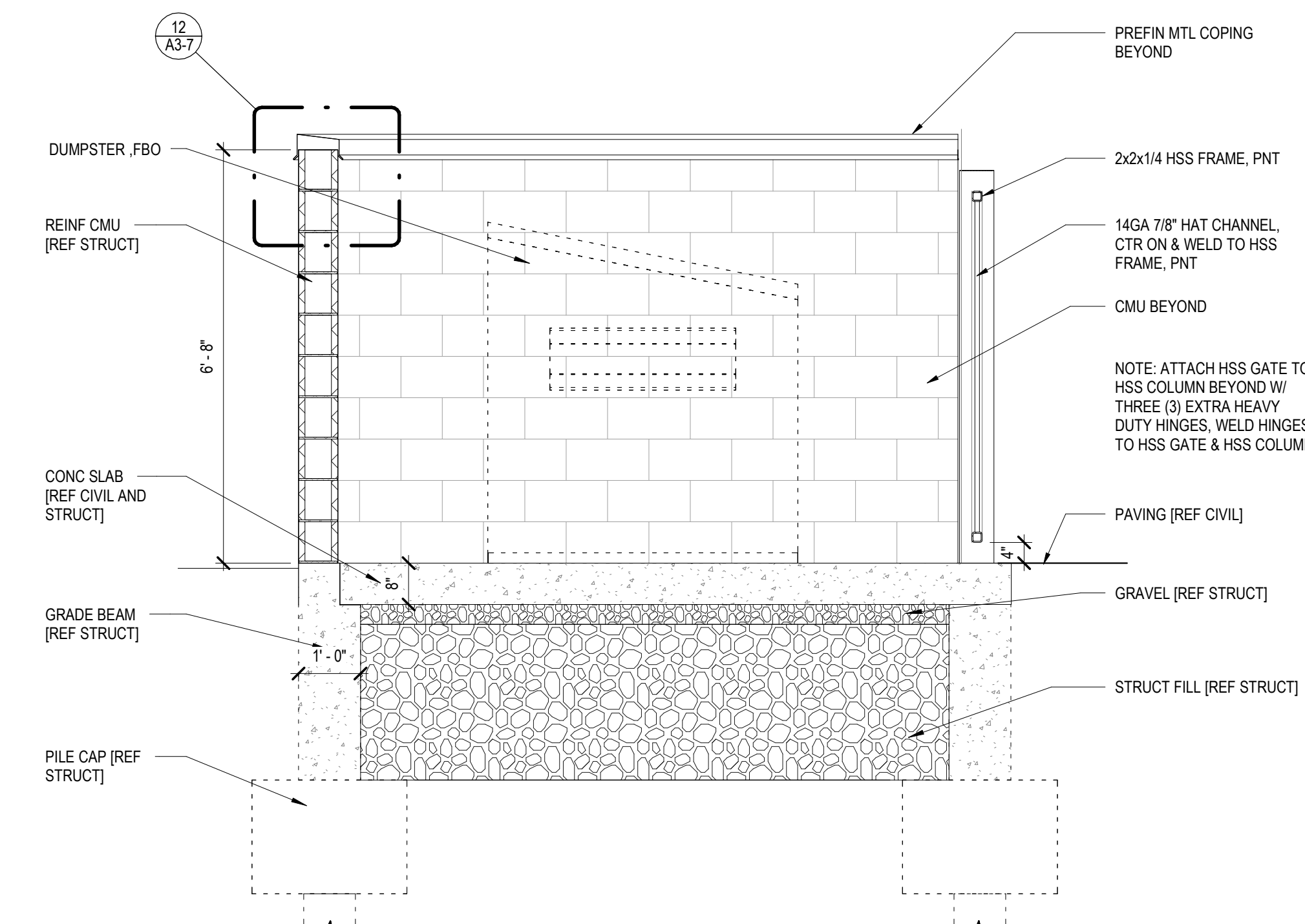
1 NORTH ELEVATION
A2-1 1/8" = 1'-0"



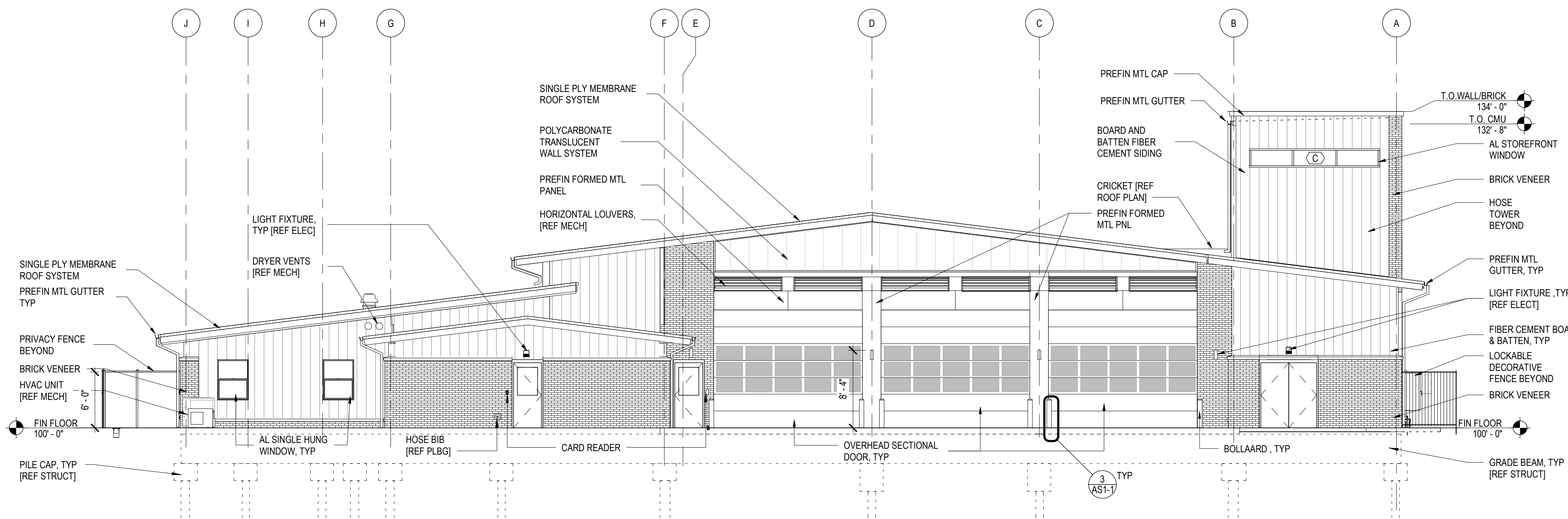
2 ELEVATION
A2-1 1/4" = 1'-0"



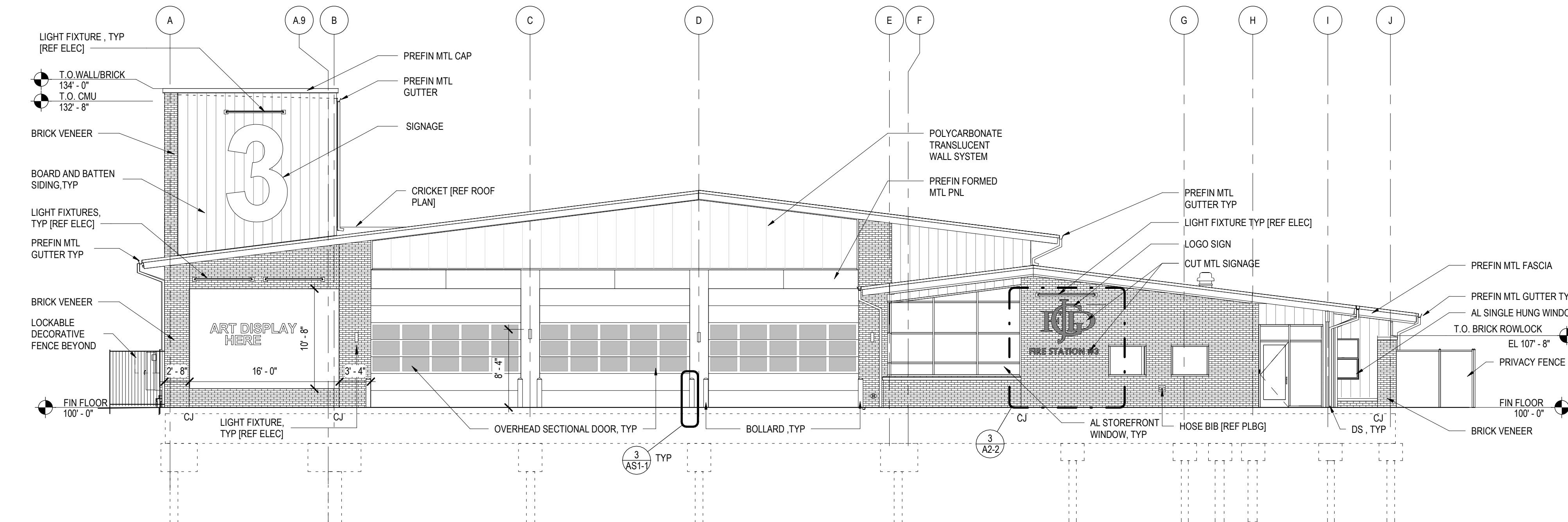
3 SOUTH ELEVATION
A2-1 1/8" = 1'-0"



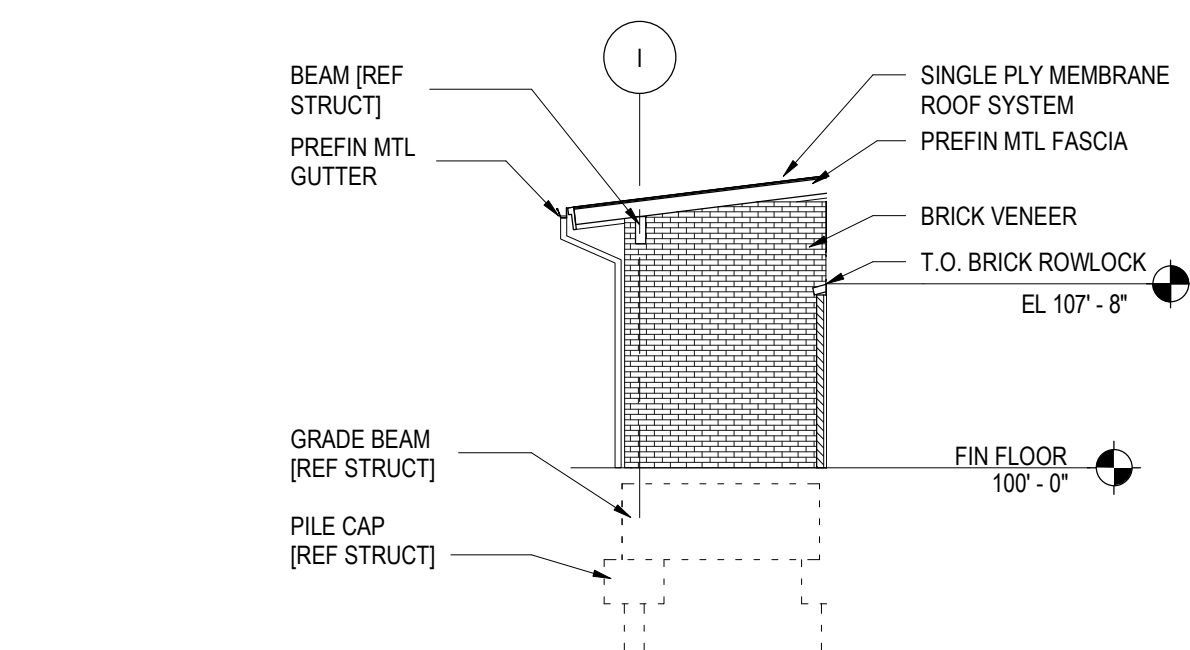
4 DUMPSTER ENCLOSURE SECTION
A2-1 1/2" = 1'-0"



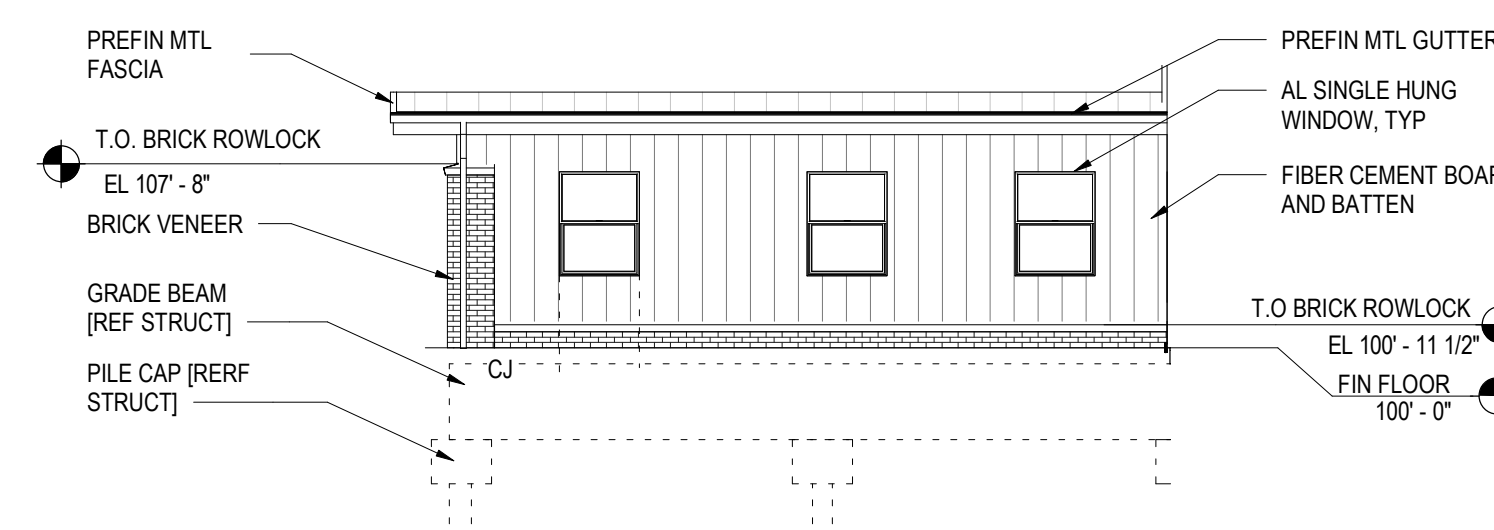
1 EAST ELEVATION
A2-2 1/8" = 1'-0"



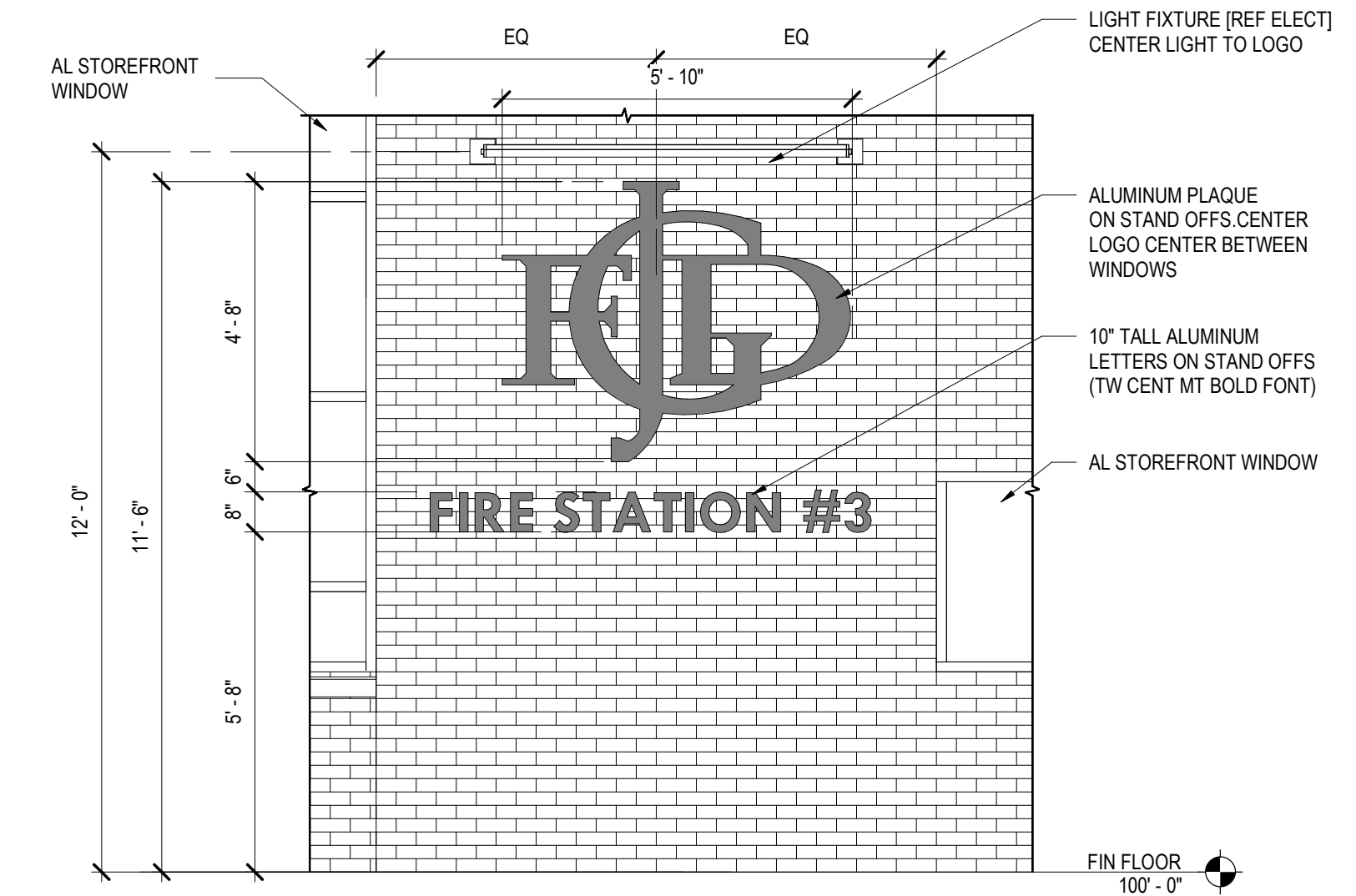
2 WEST ELEVATION
A2-2 1/8" = 1'-0"



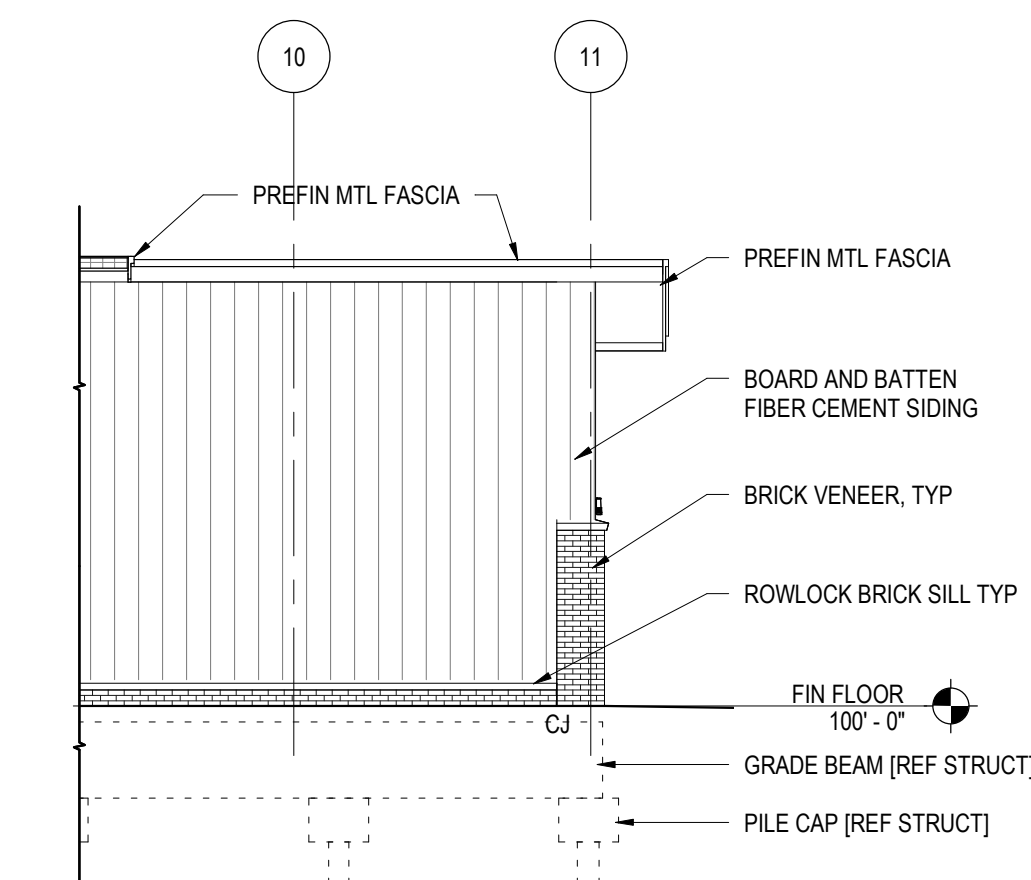
5 EAST ELEVATION
A2-2 1/8" = 1'-0"



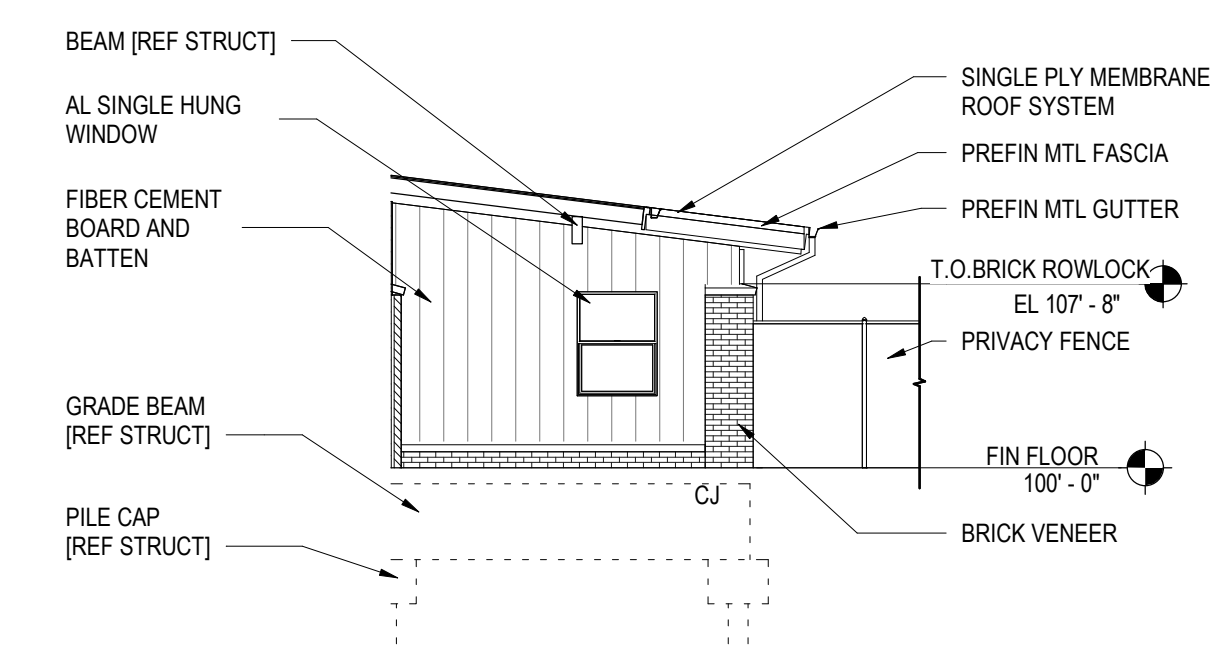
6 NORTH ELEVATION
A2-2 1/8" = 1'-0"



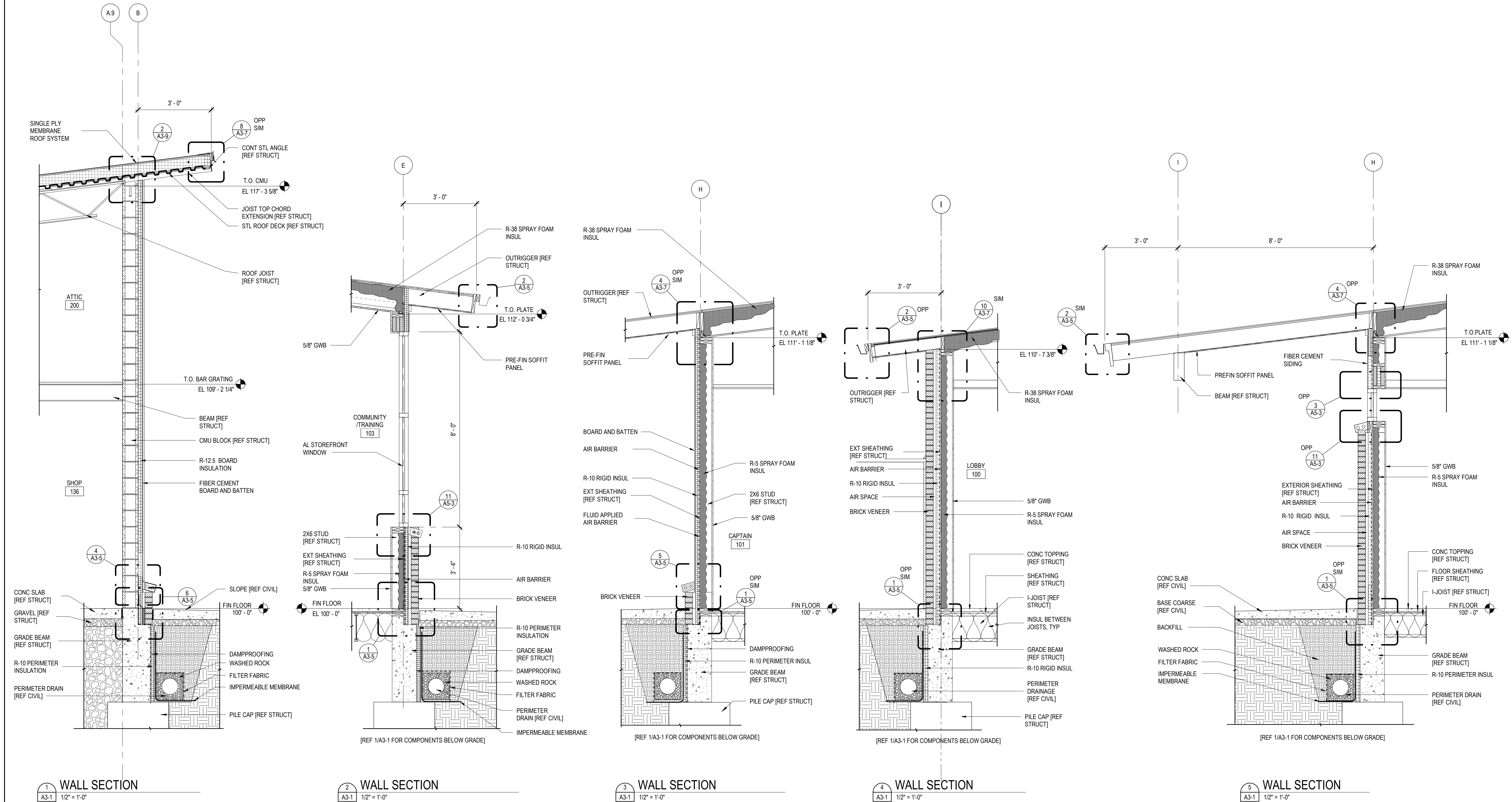
3 GJFS LOGO
A2-2 3/8" = 1'-0"

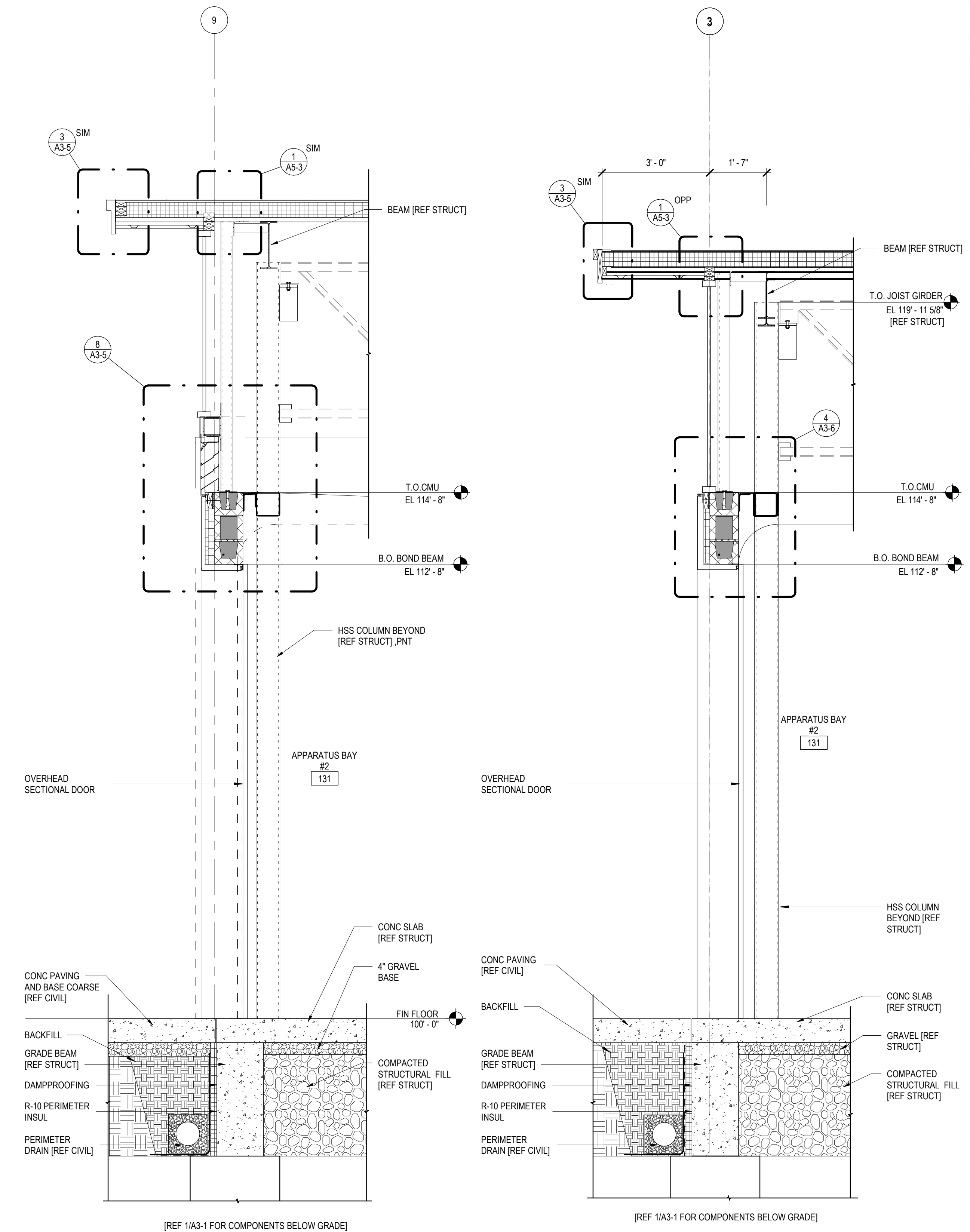


4 SOUTH ELEVATION
A2-2 1/8" = 1'-0"



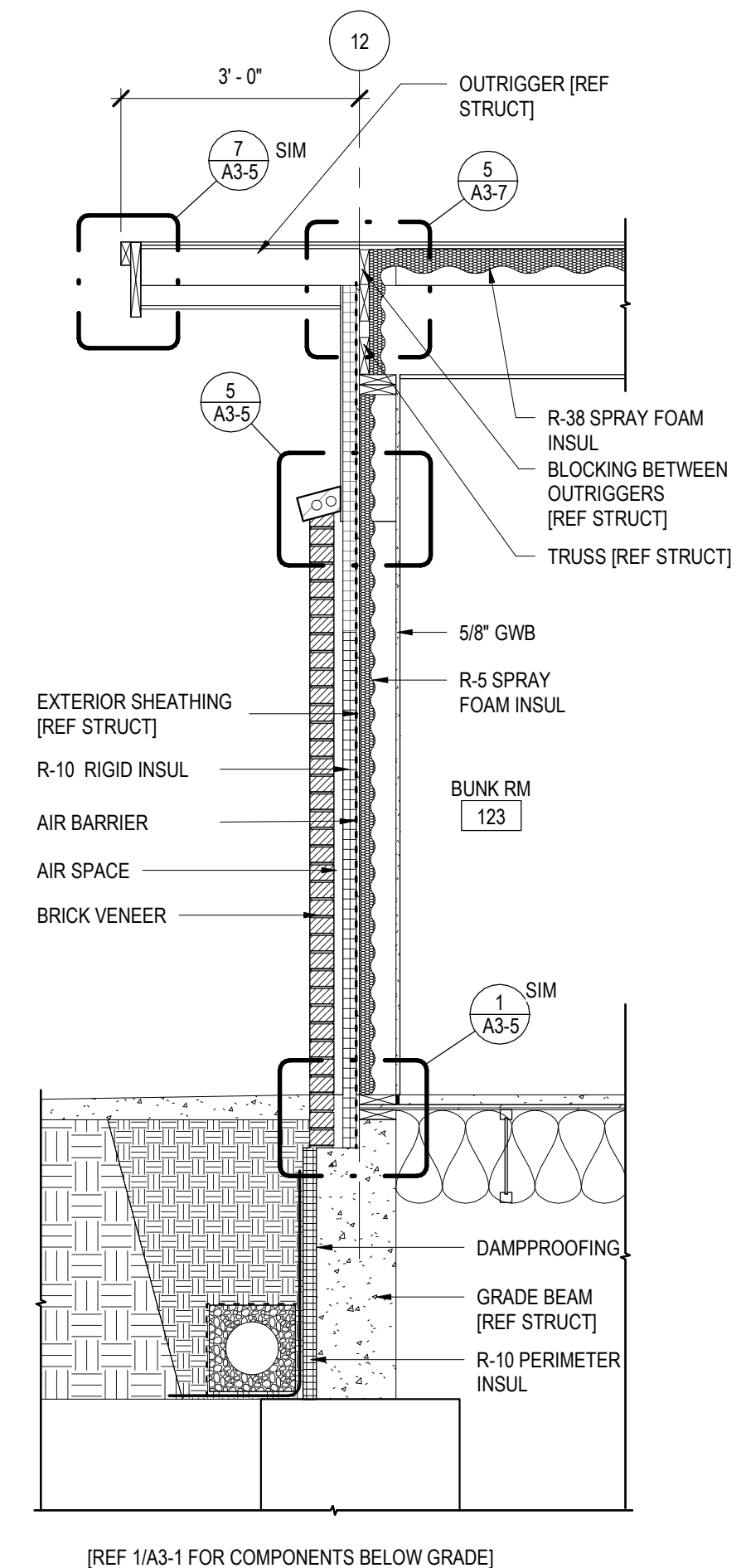
7 WEST ELEVATION
A2-2 1/8" = 1'-0"



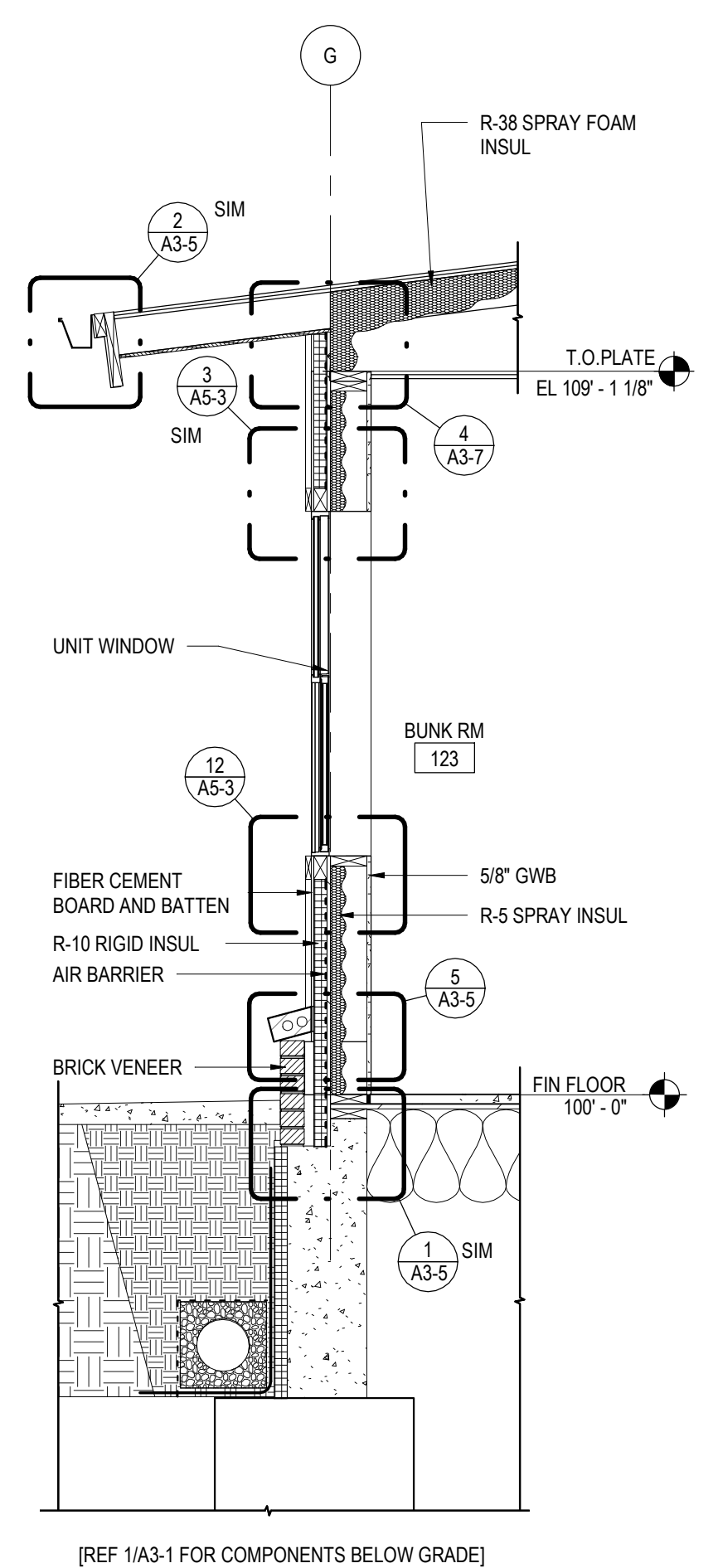


5 WALL SECTION
A3-2 1/2" = 1'-0"

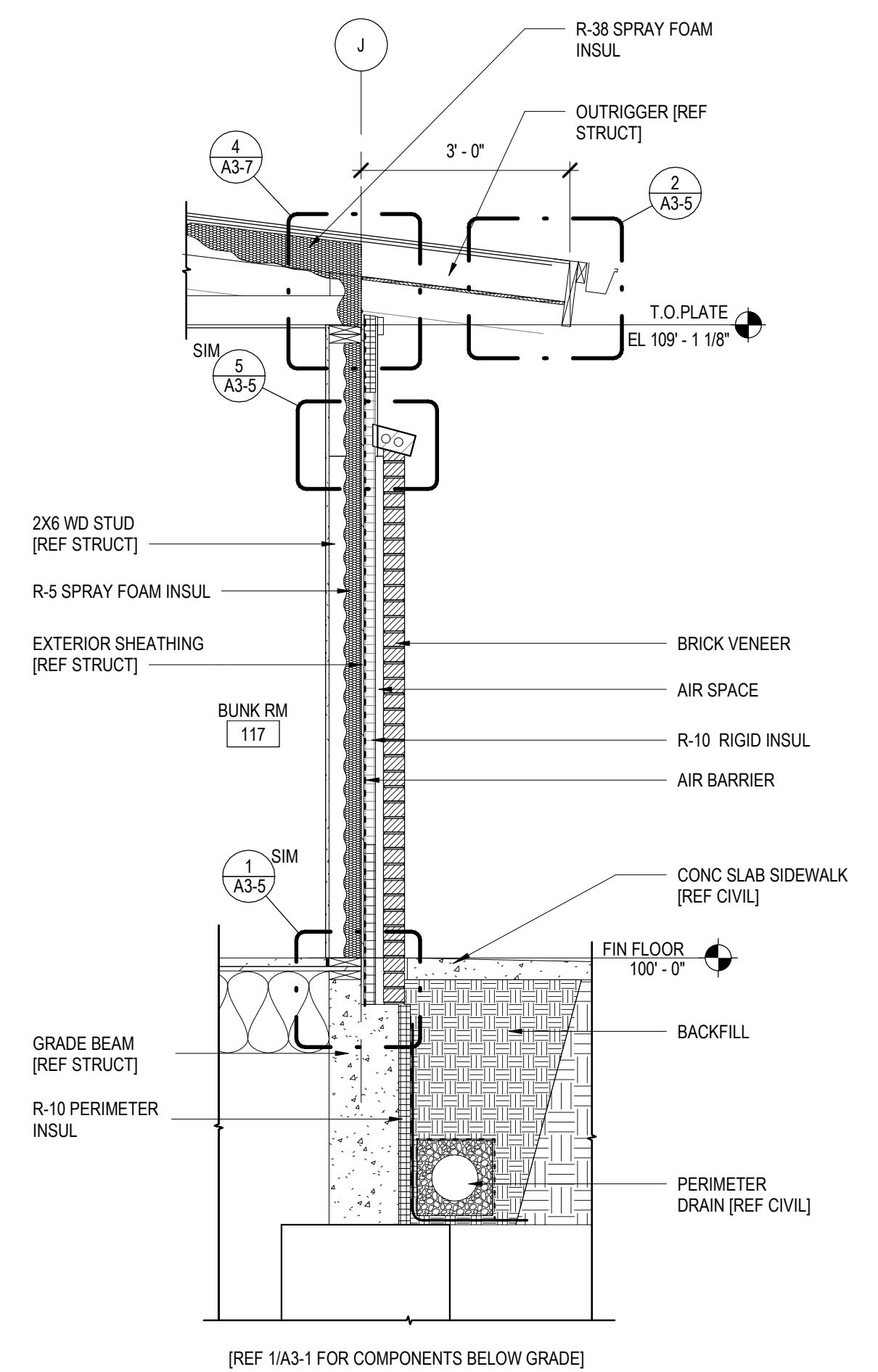
6 WALL SECTION
A3-2 1/2" = 1'-0"



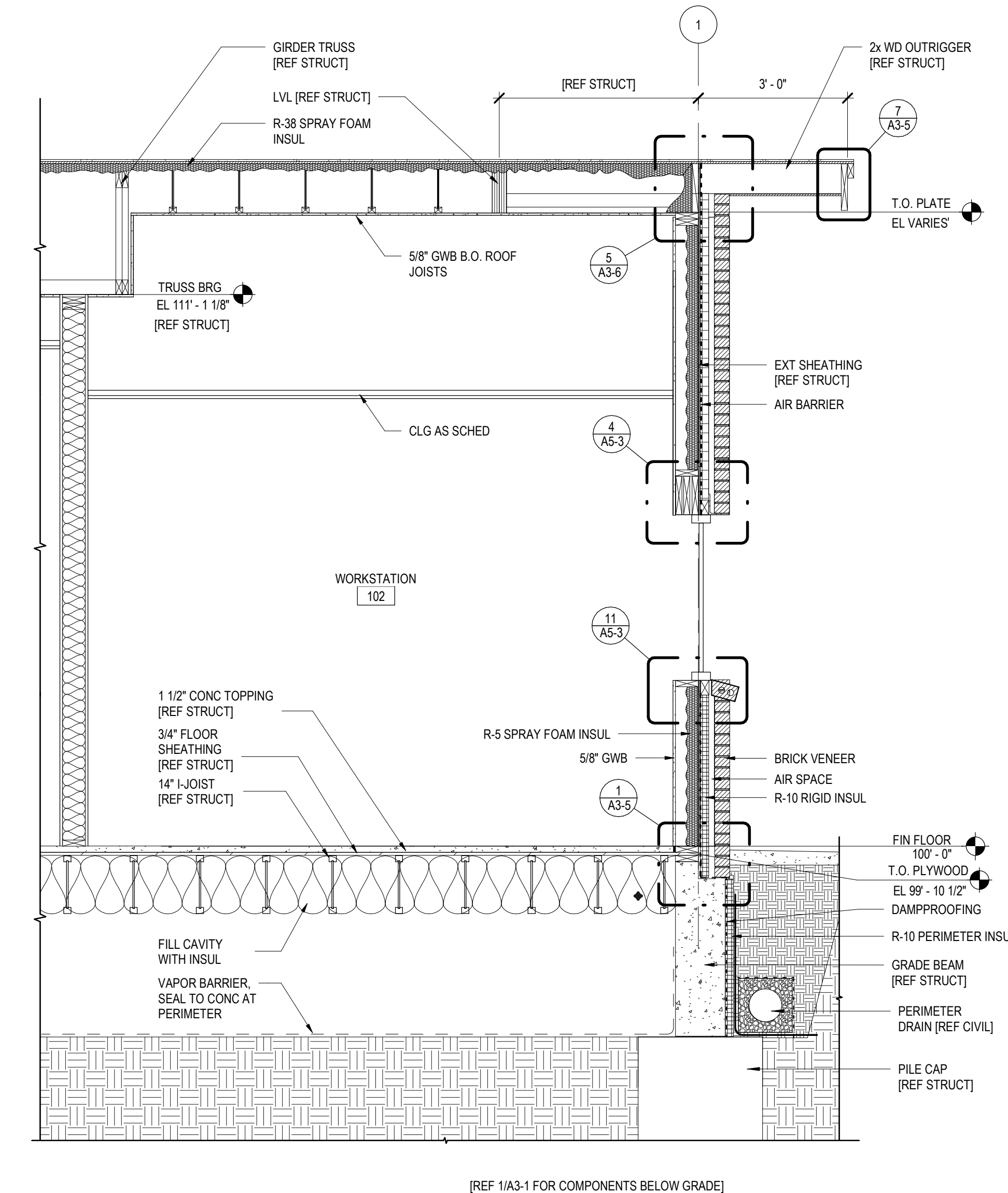
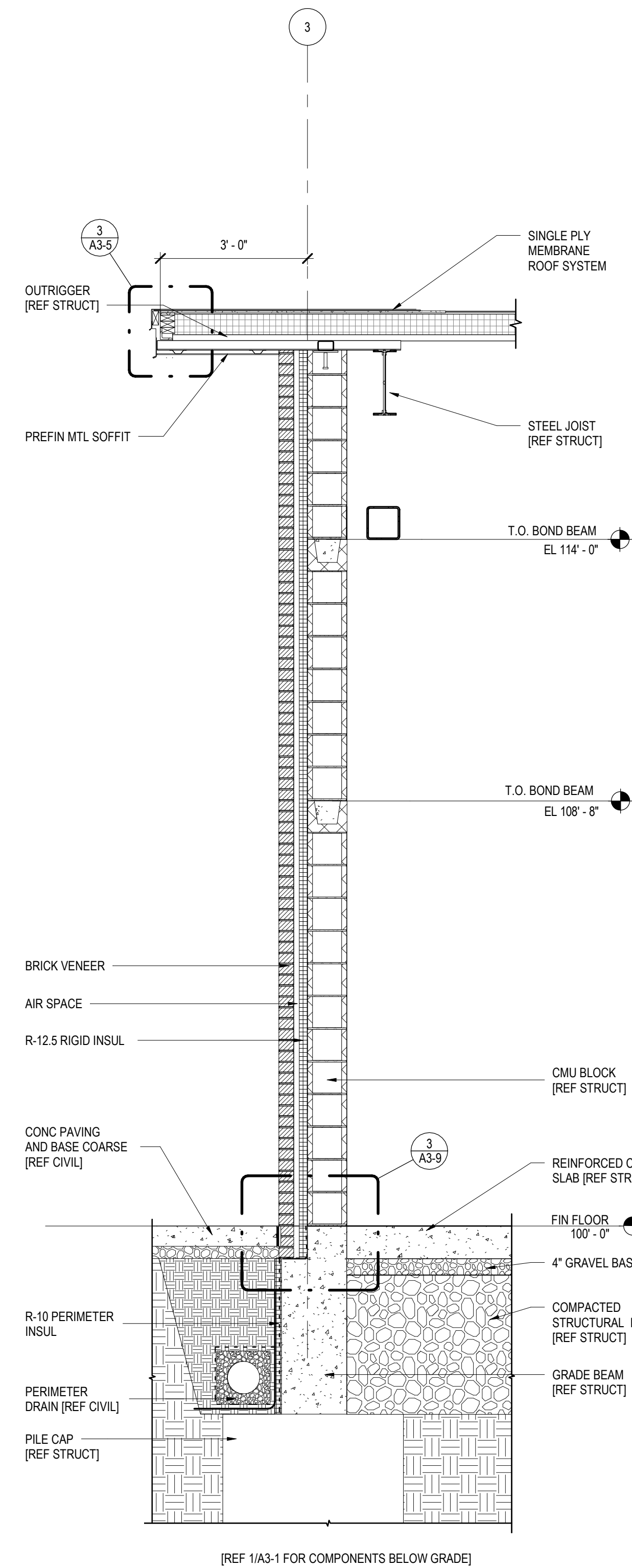
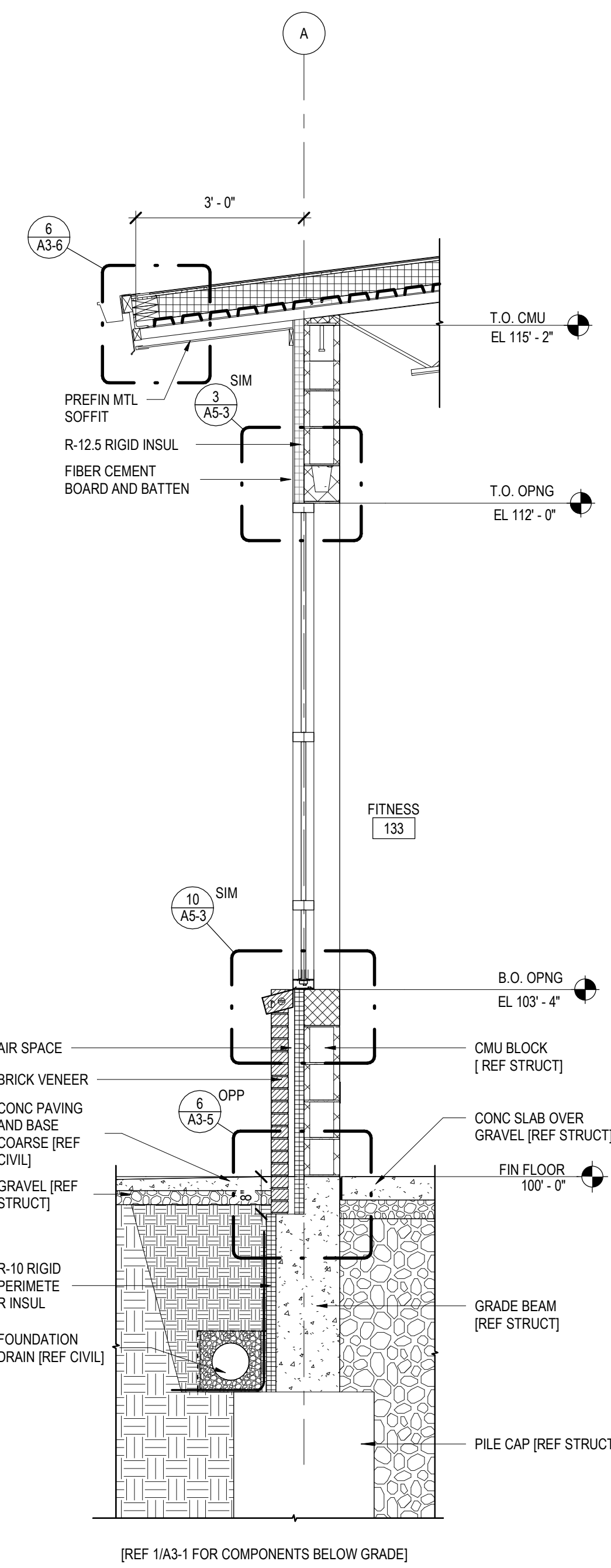
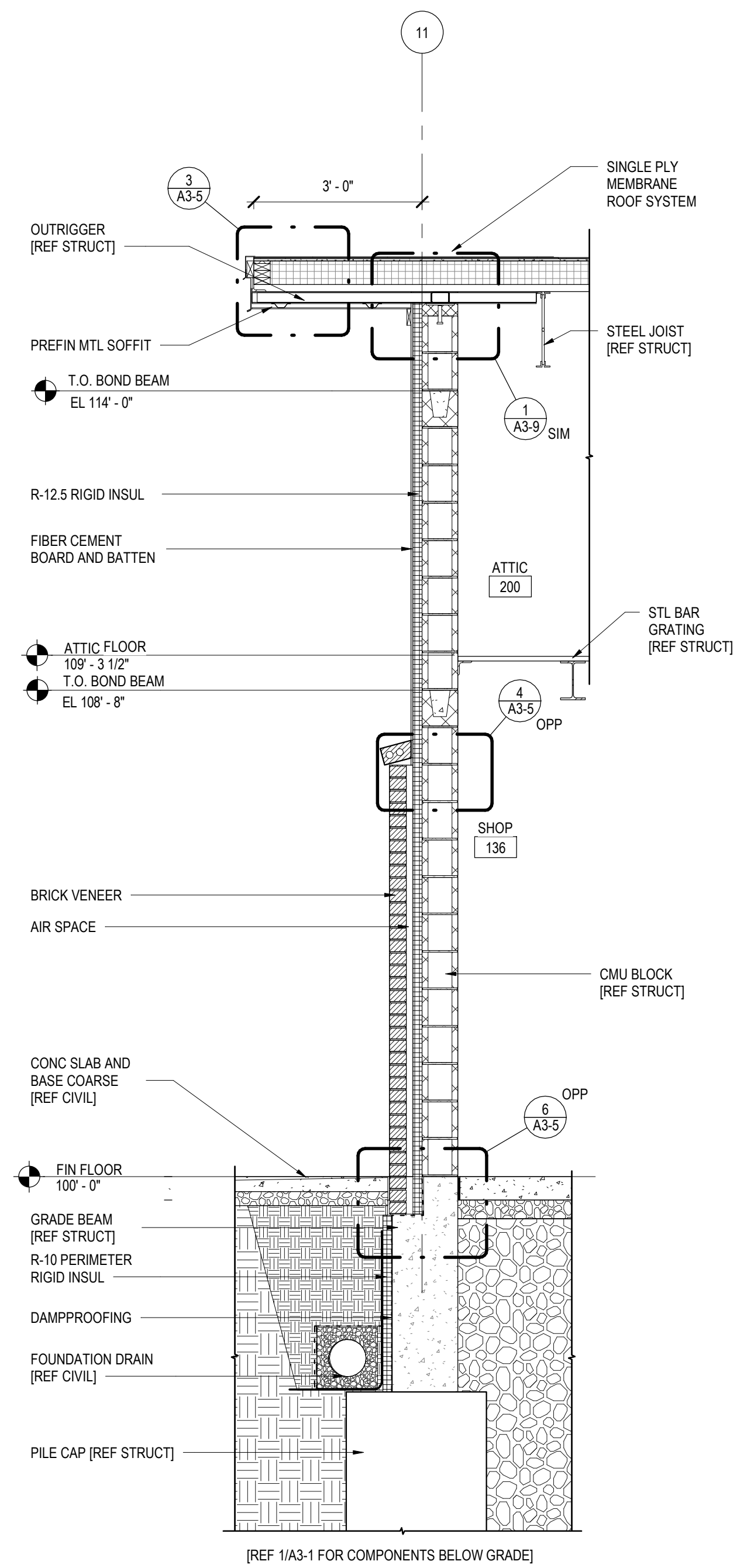
3 WALL SECTION
A3-2 1/2" = 1'-0"

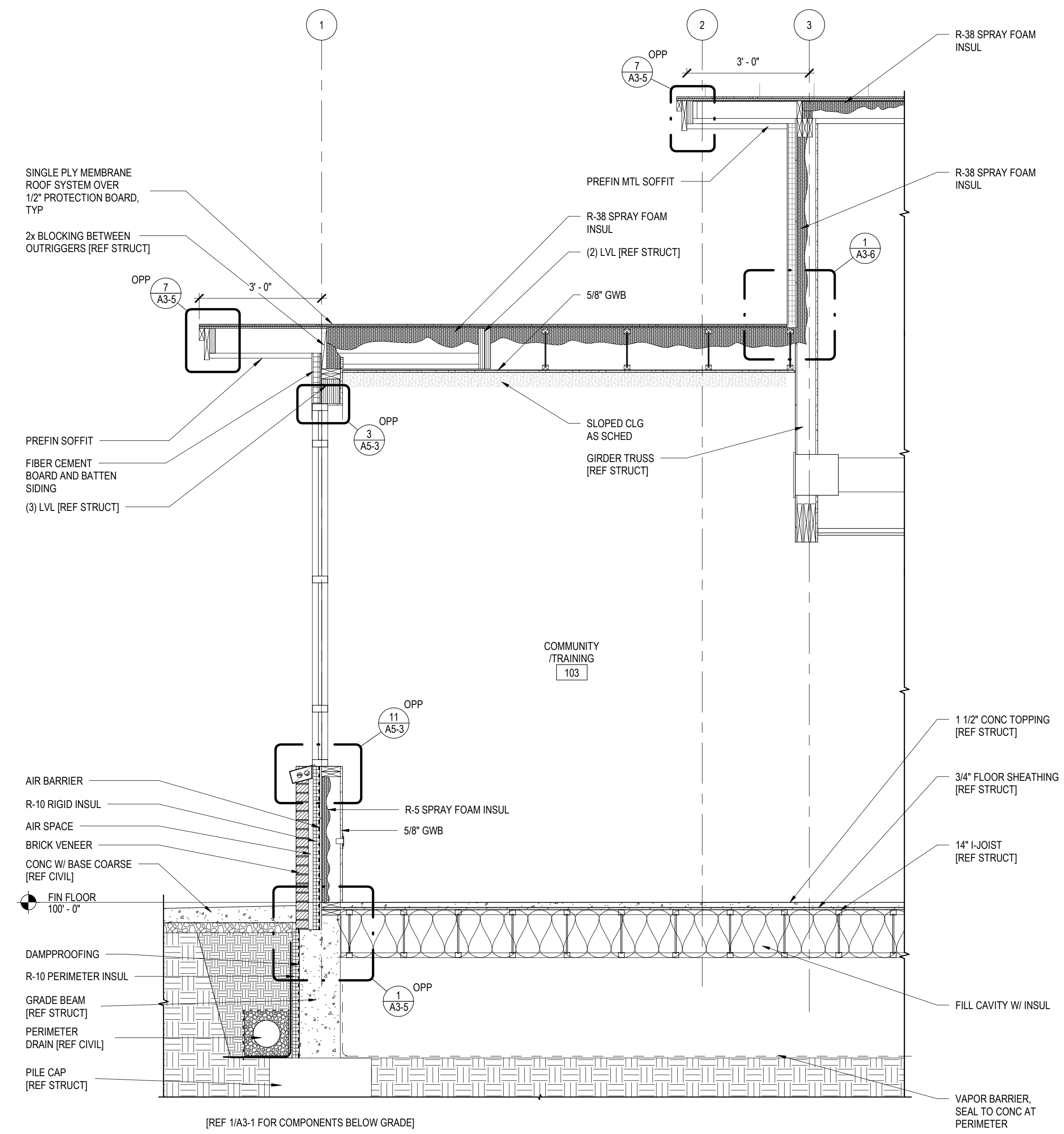


2 WALL SECTION
A3-2 1/2" = 1'-0"

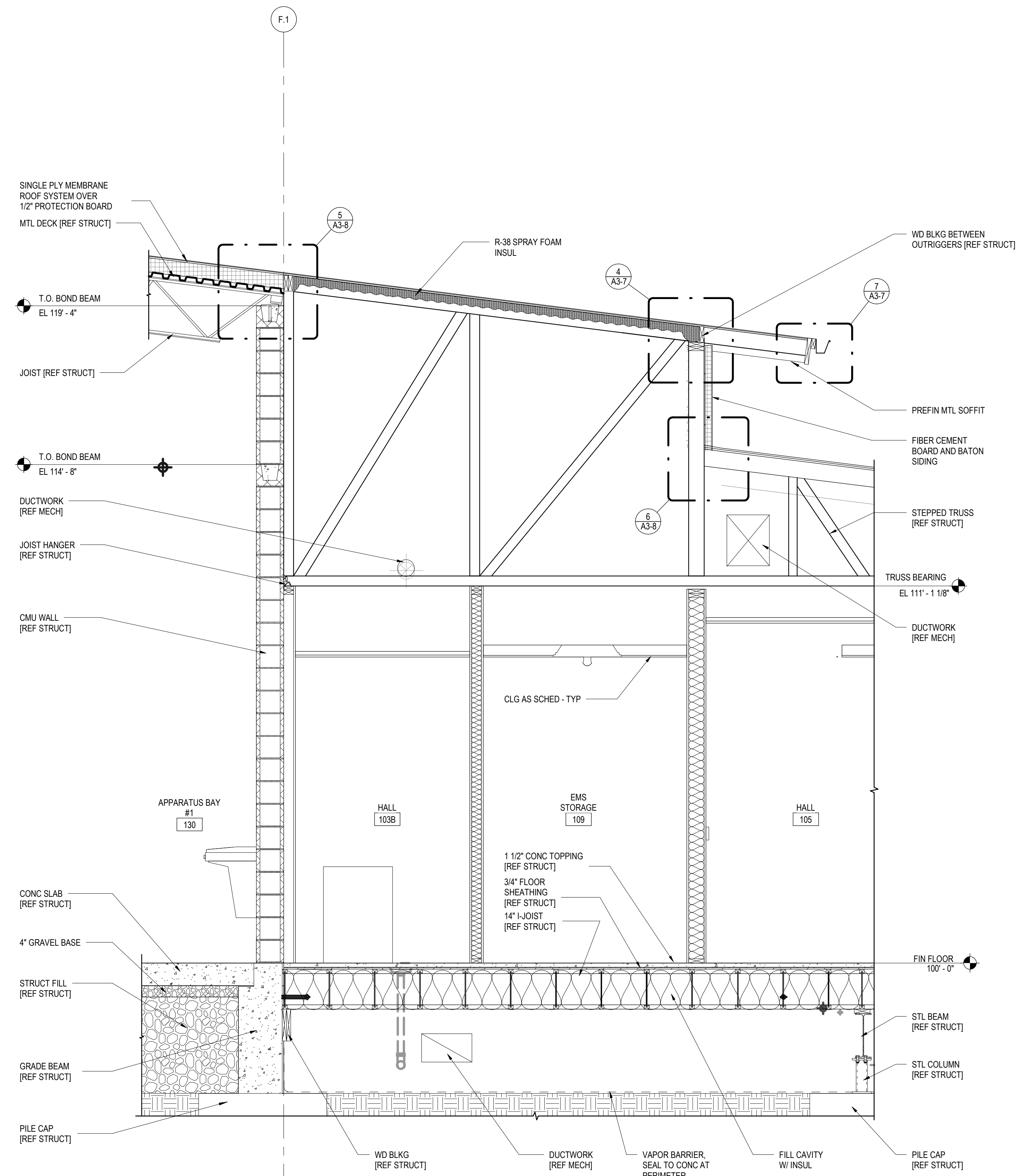


1 WALL SECTION
A3-2 1/2" = 1'-0"

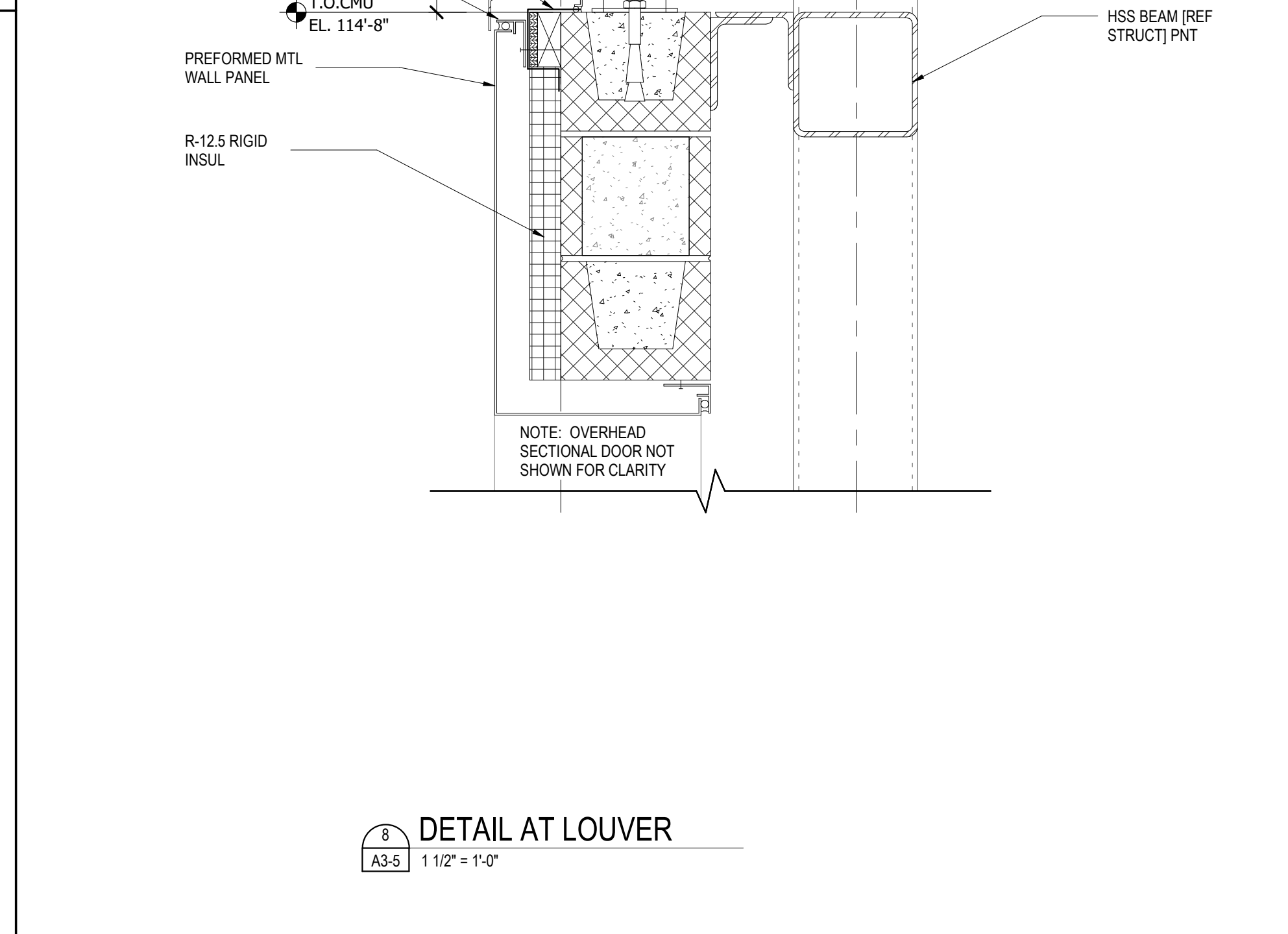
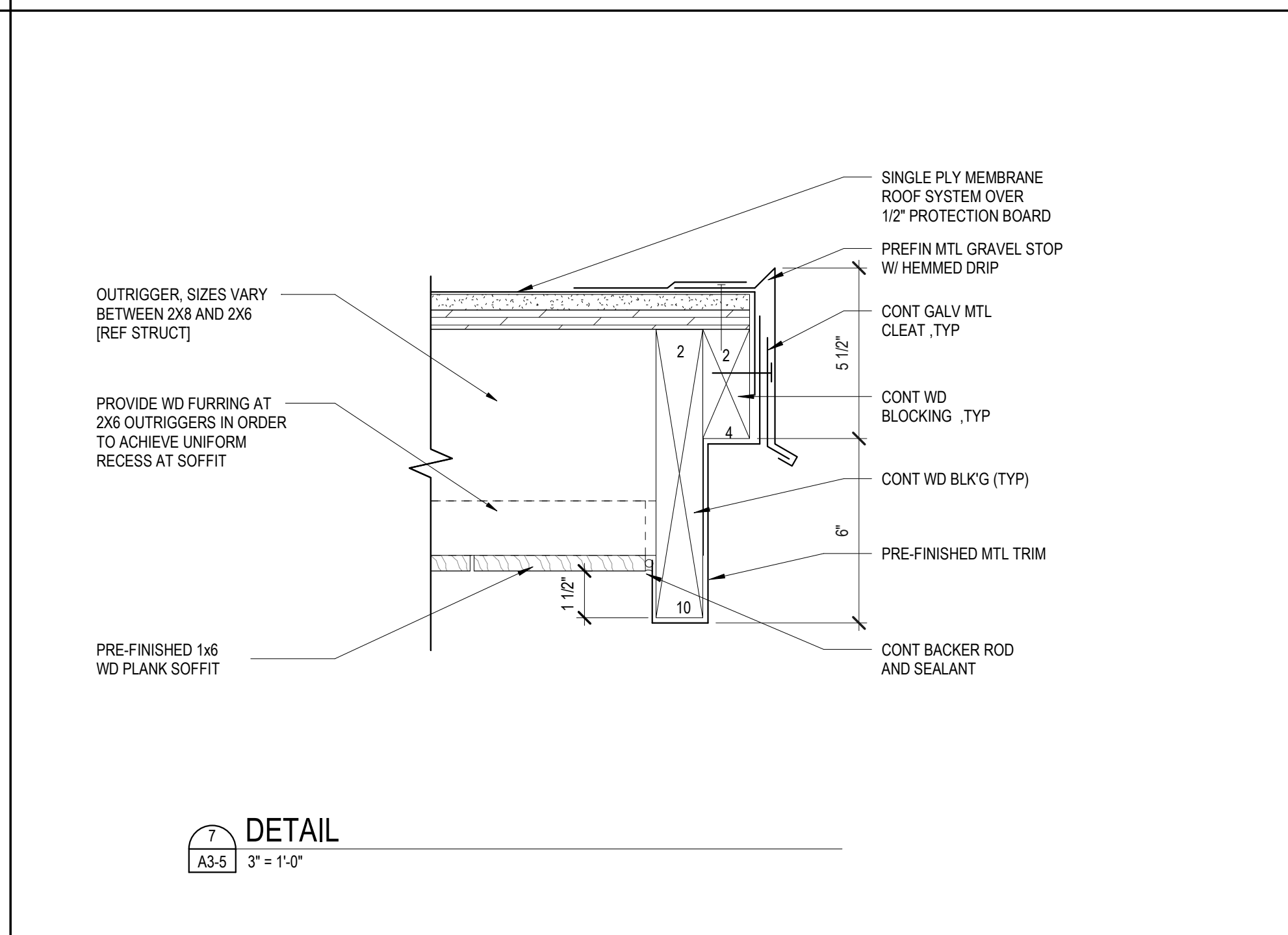
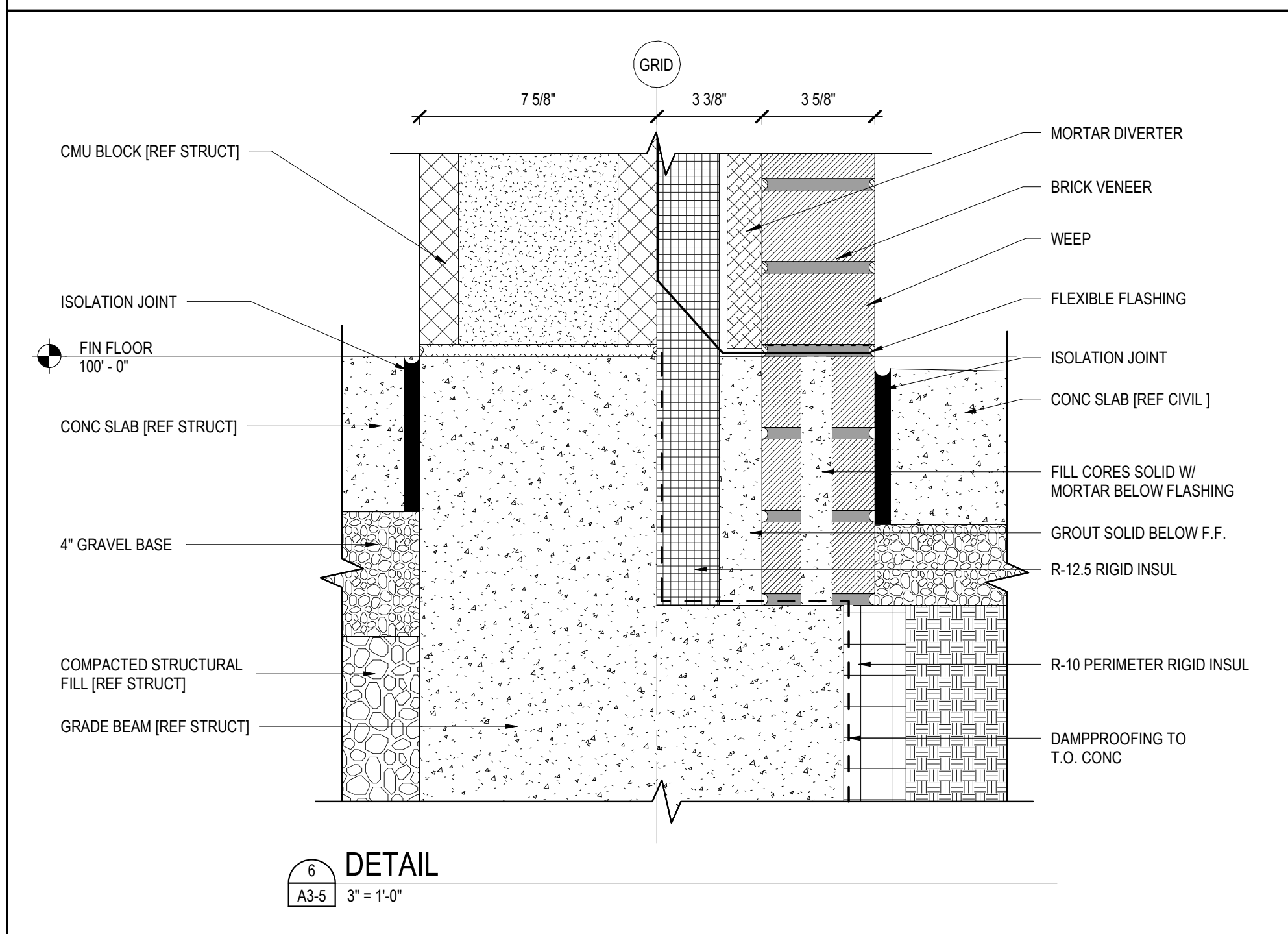
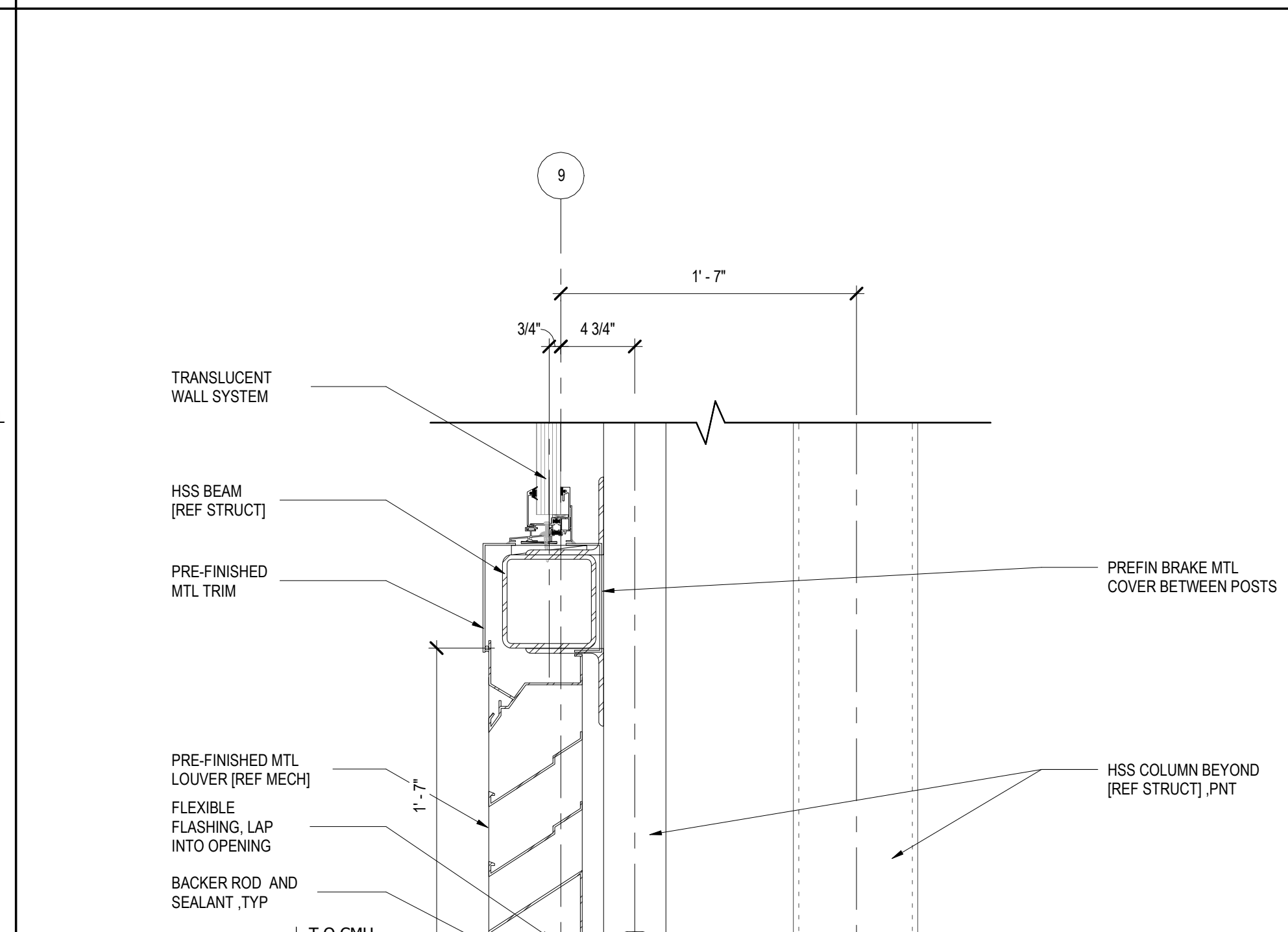
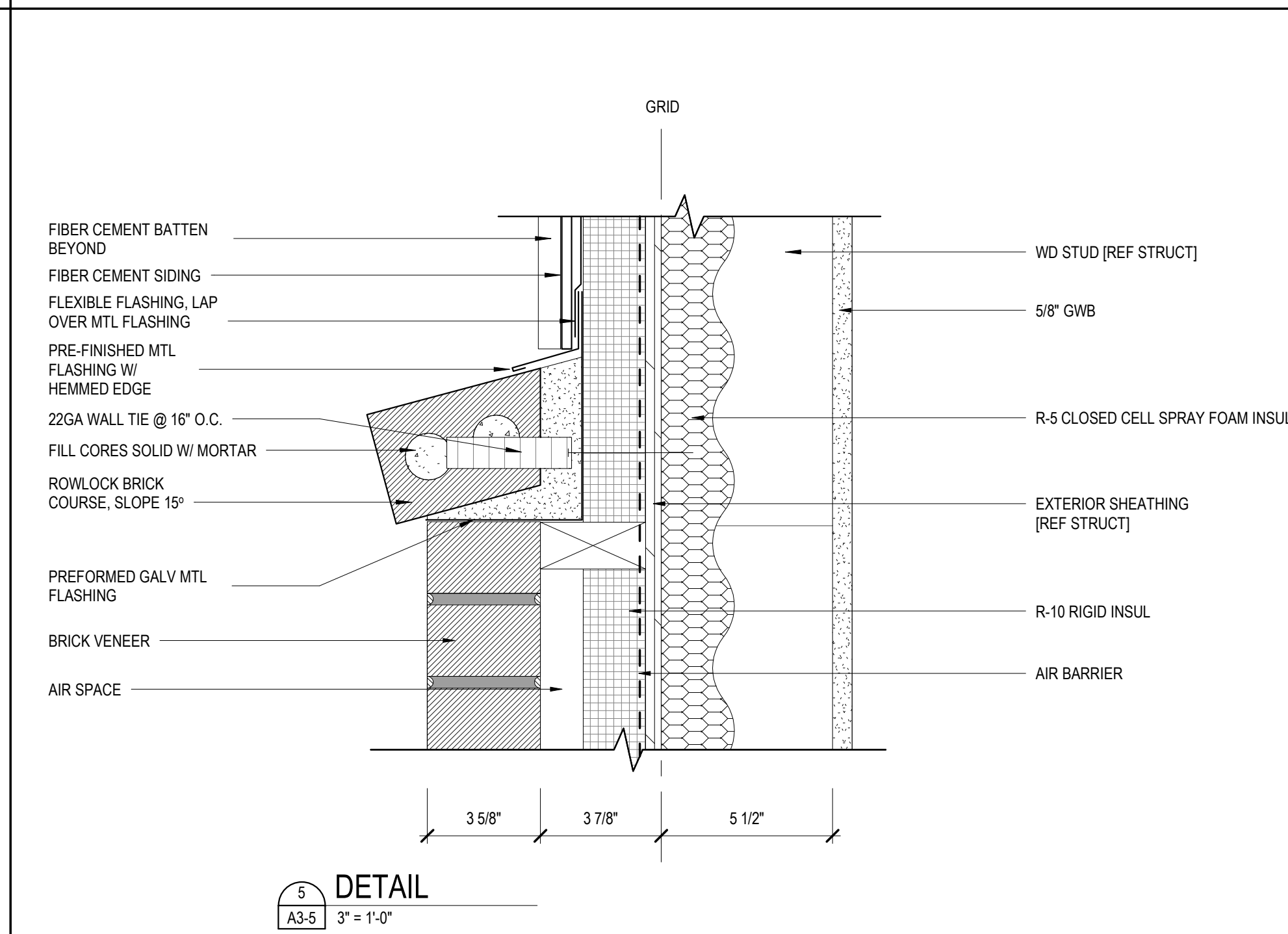
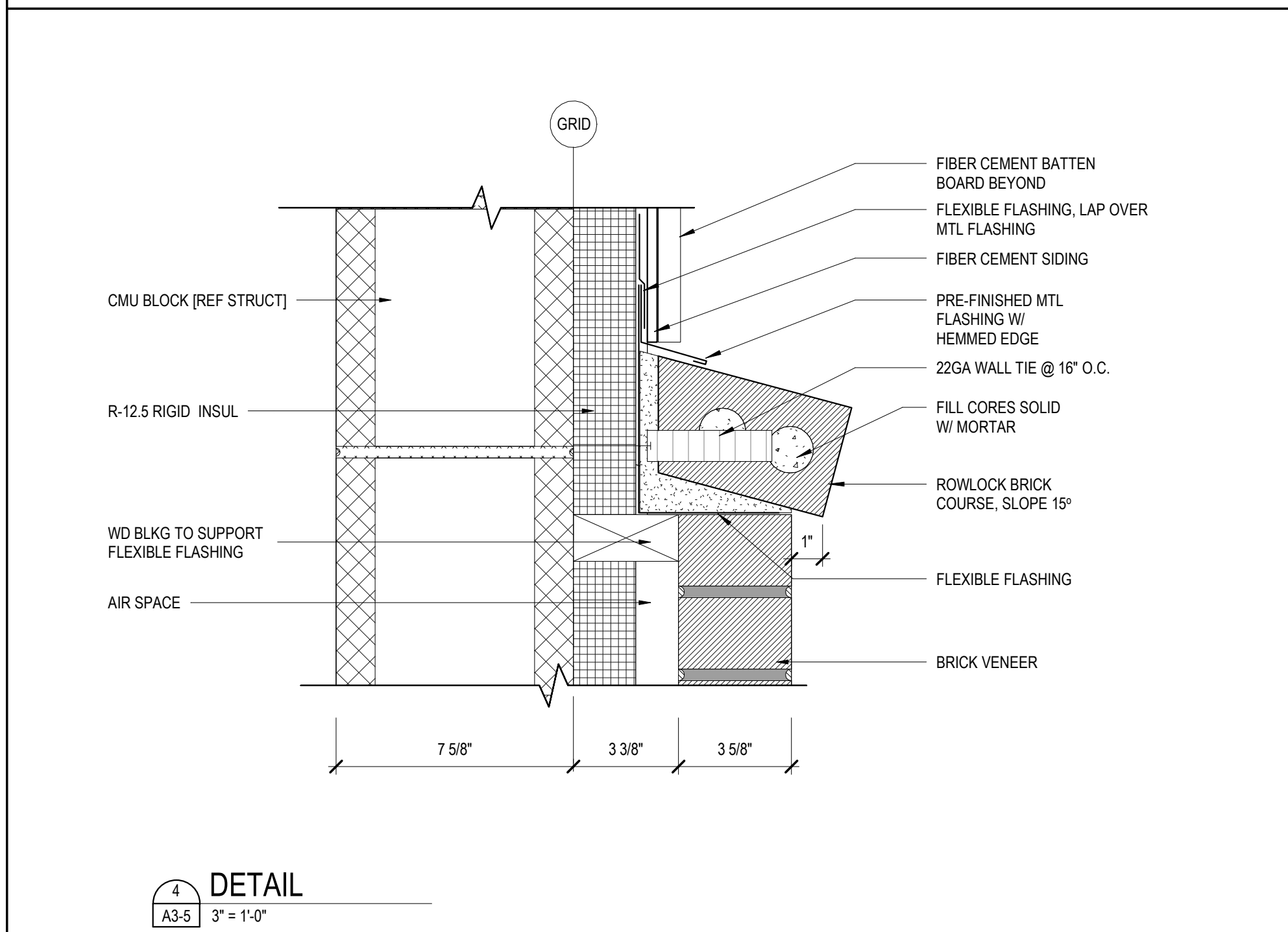
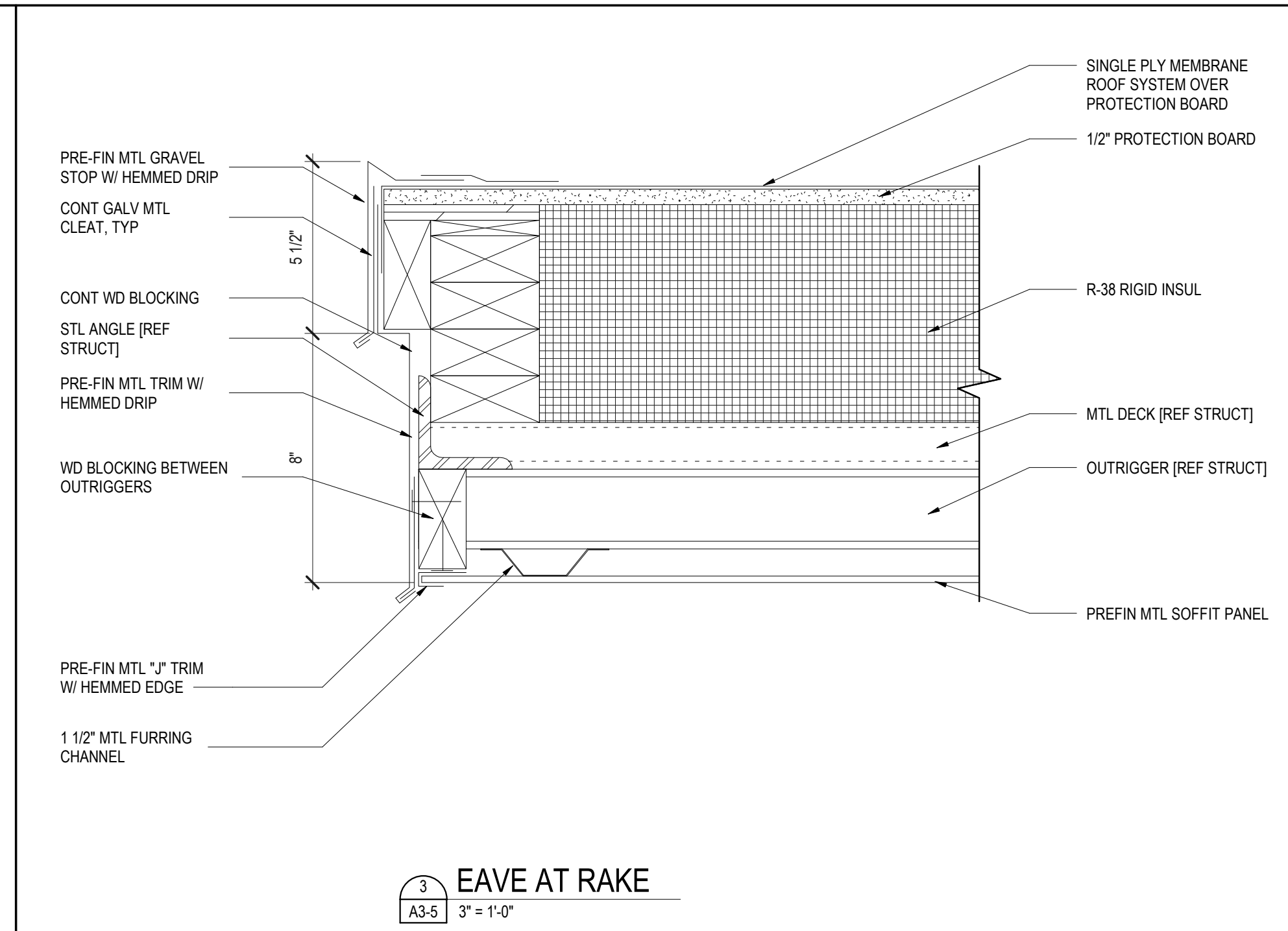
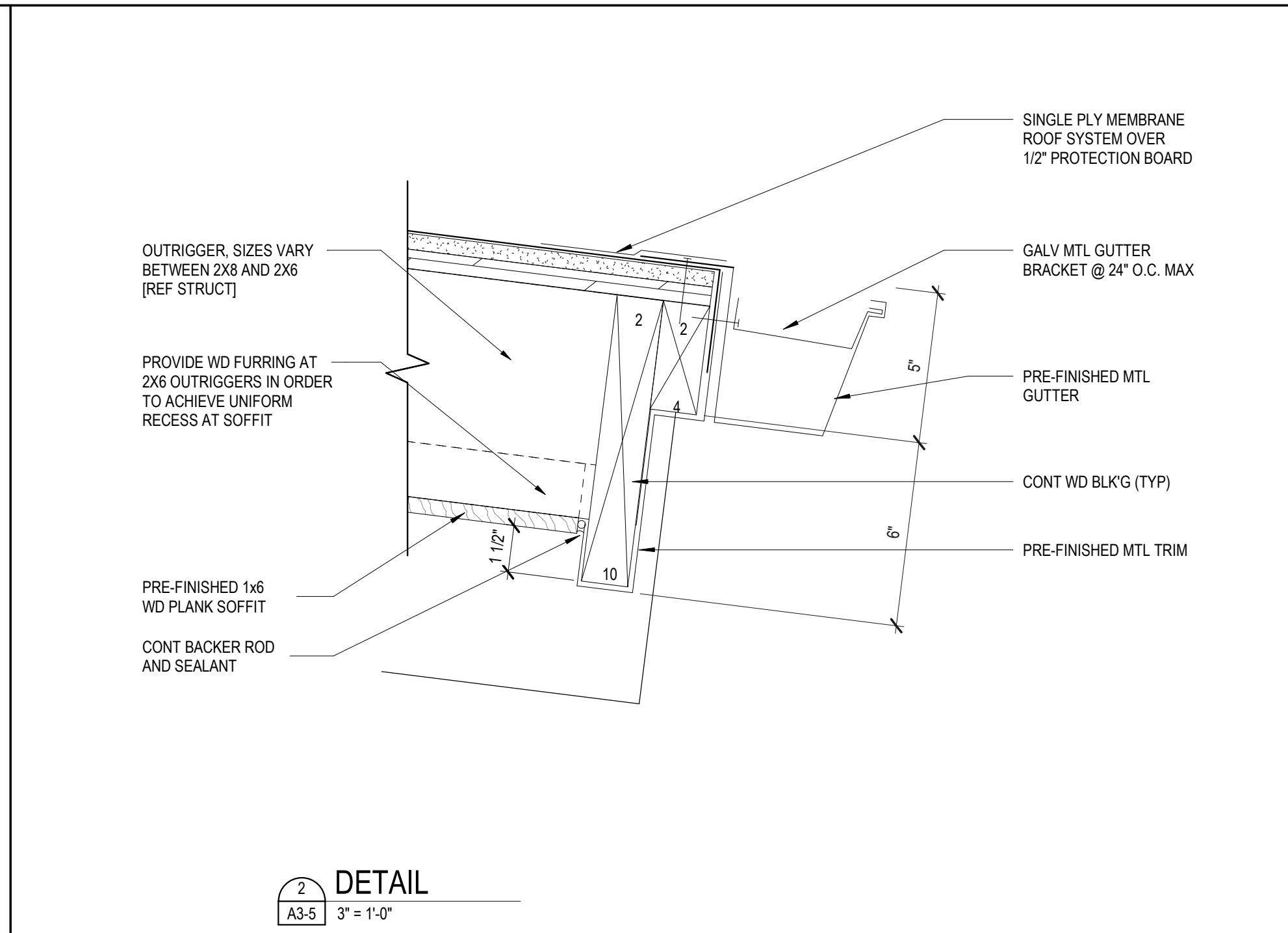
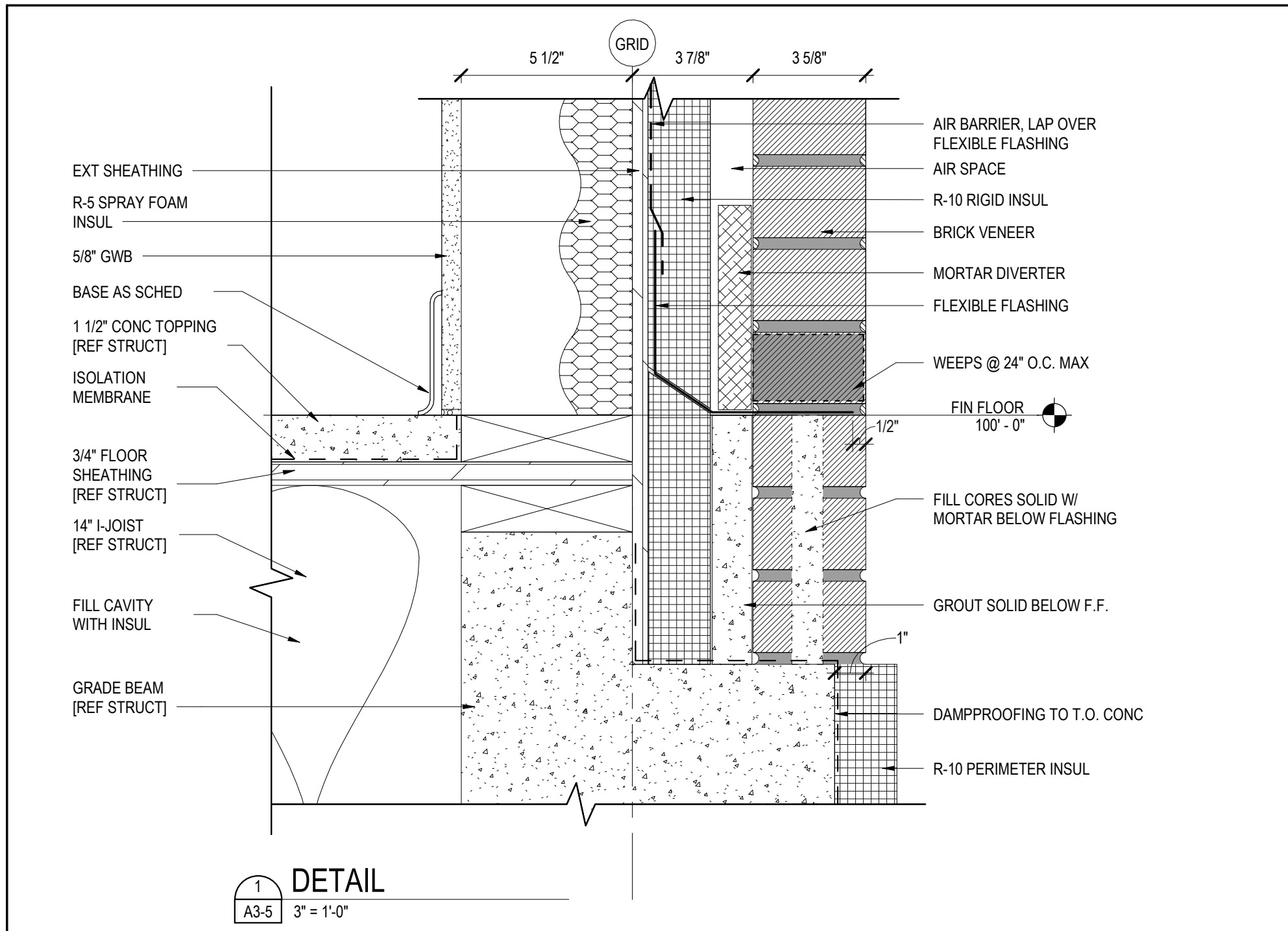


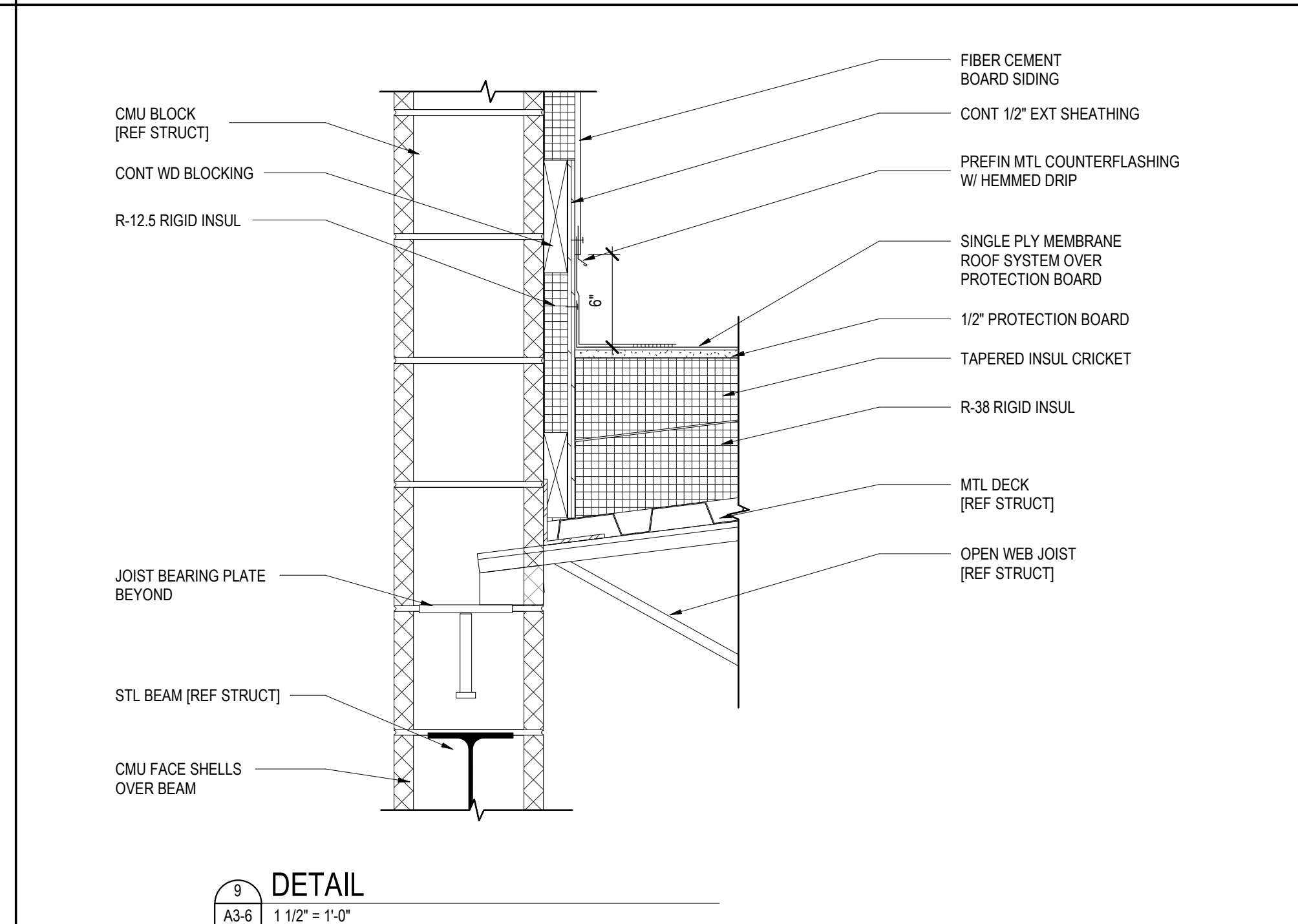
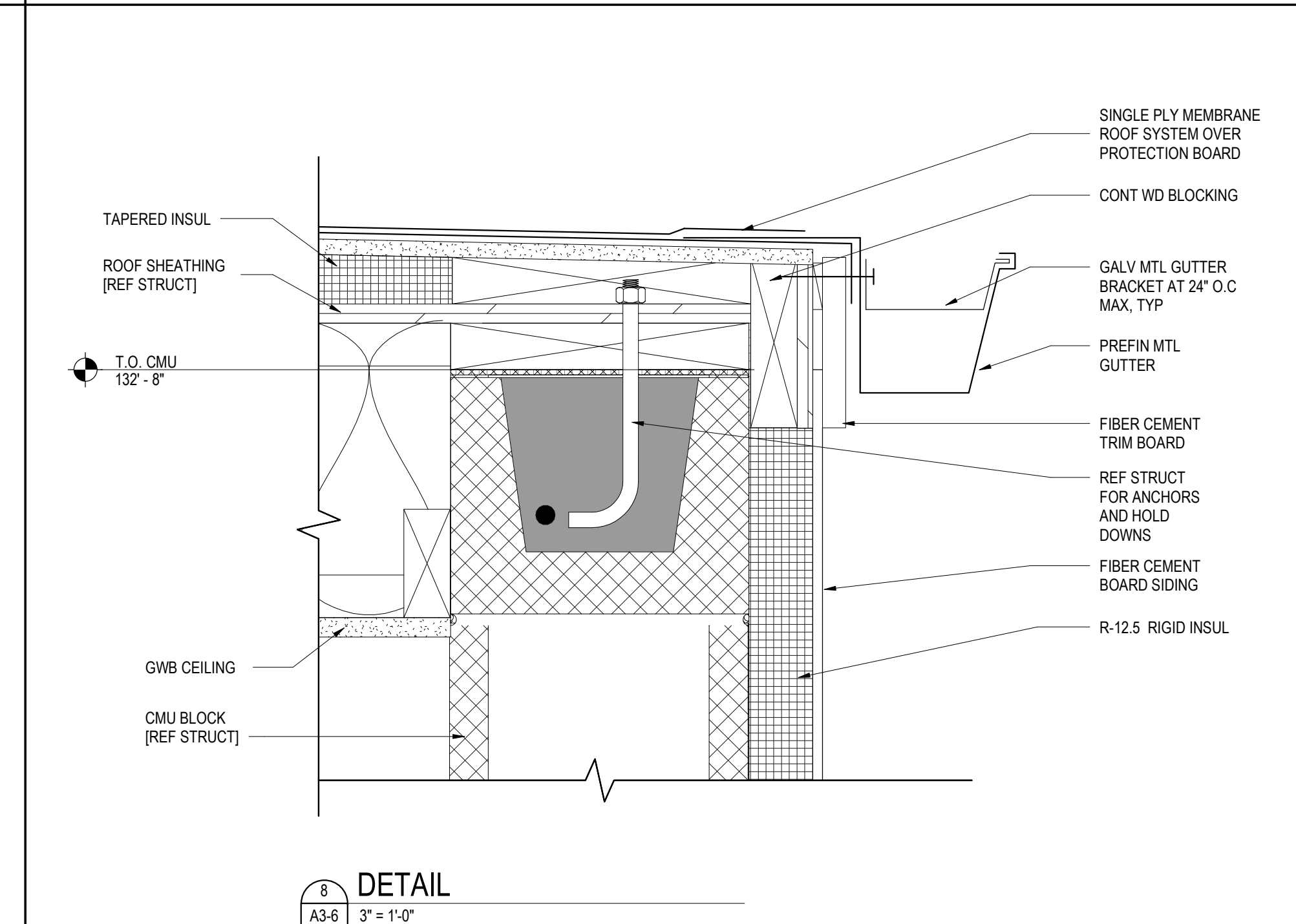
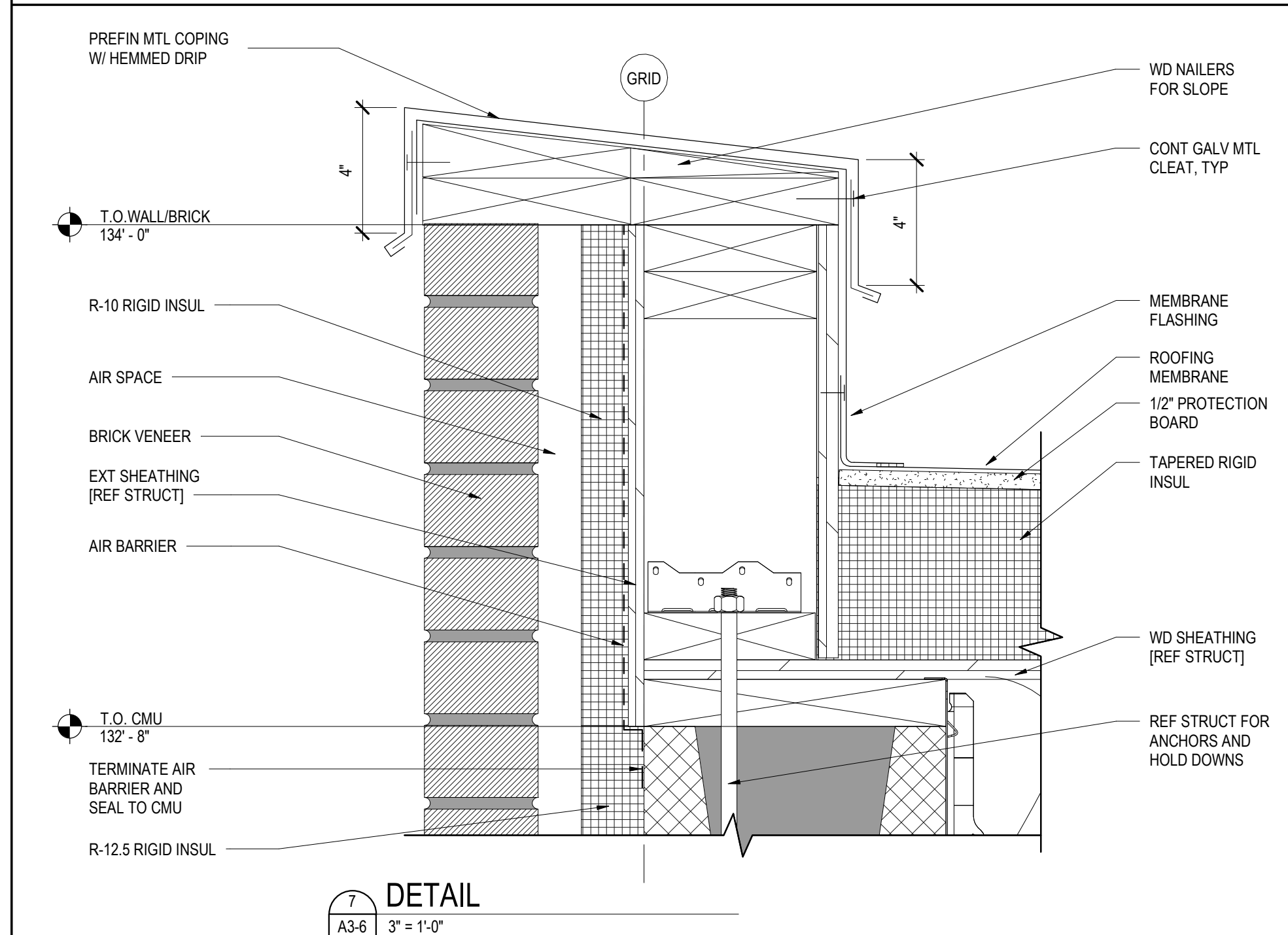
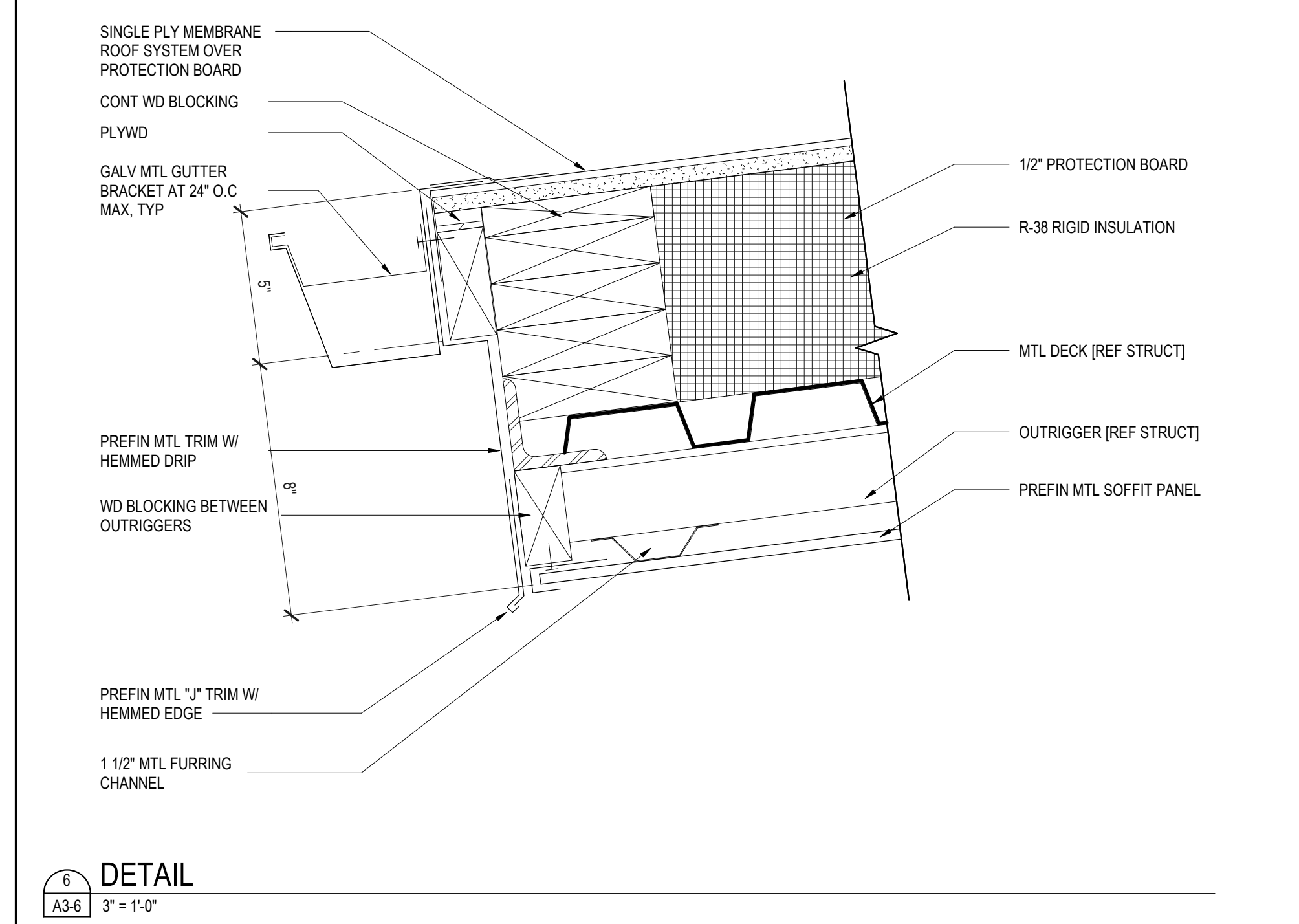
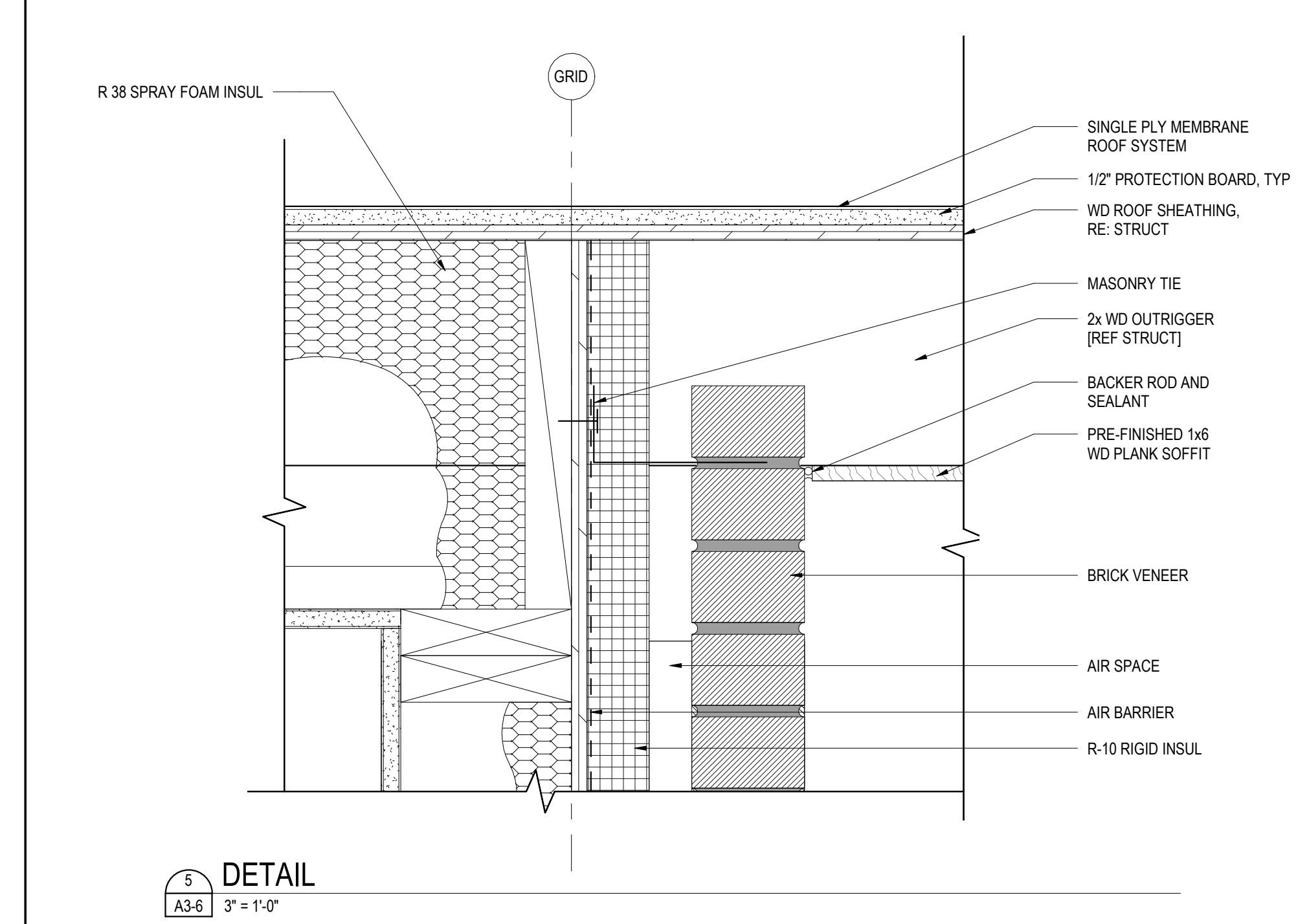
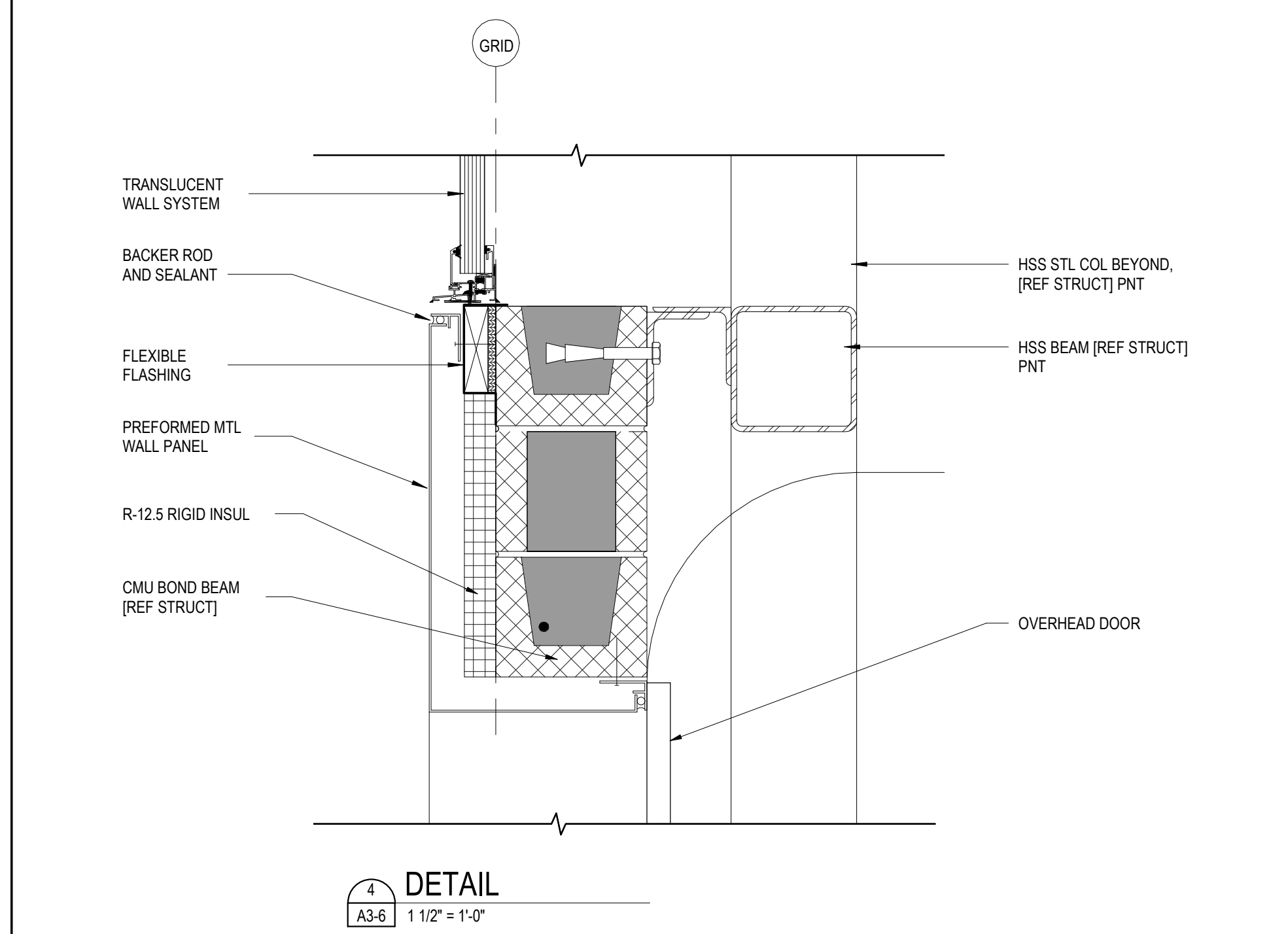
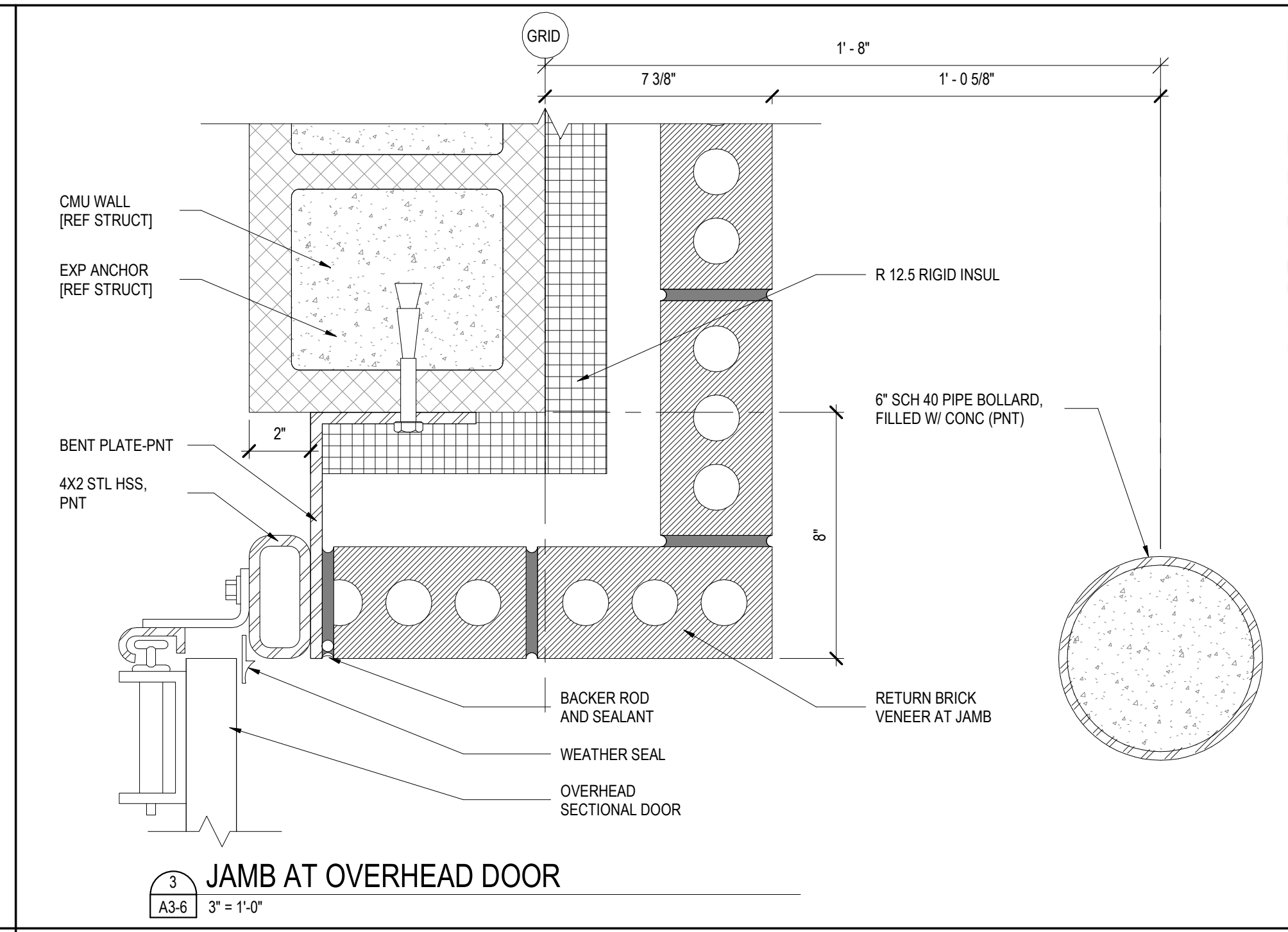
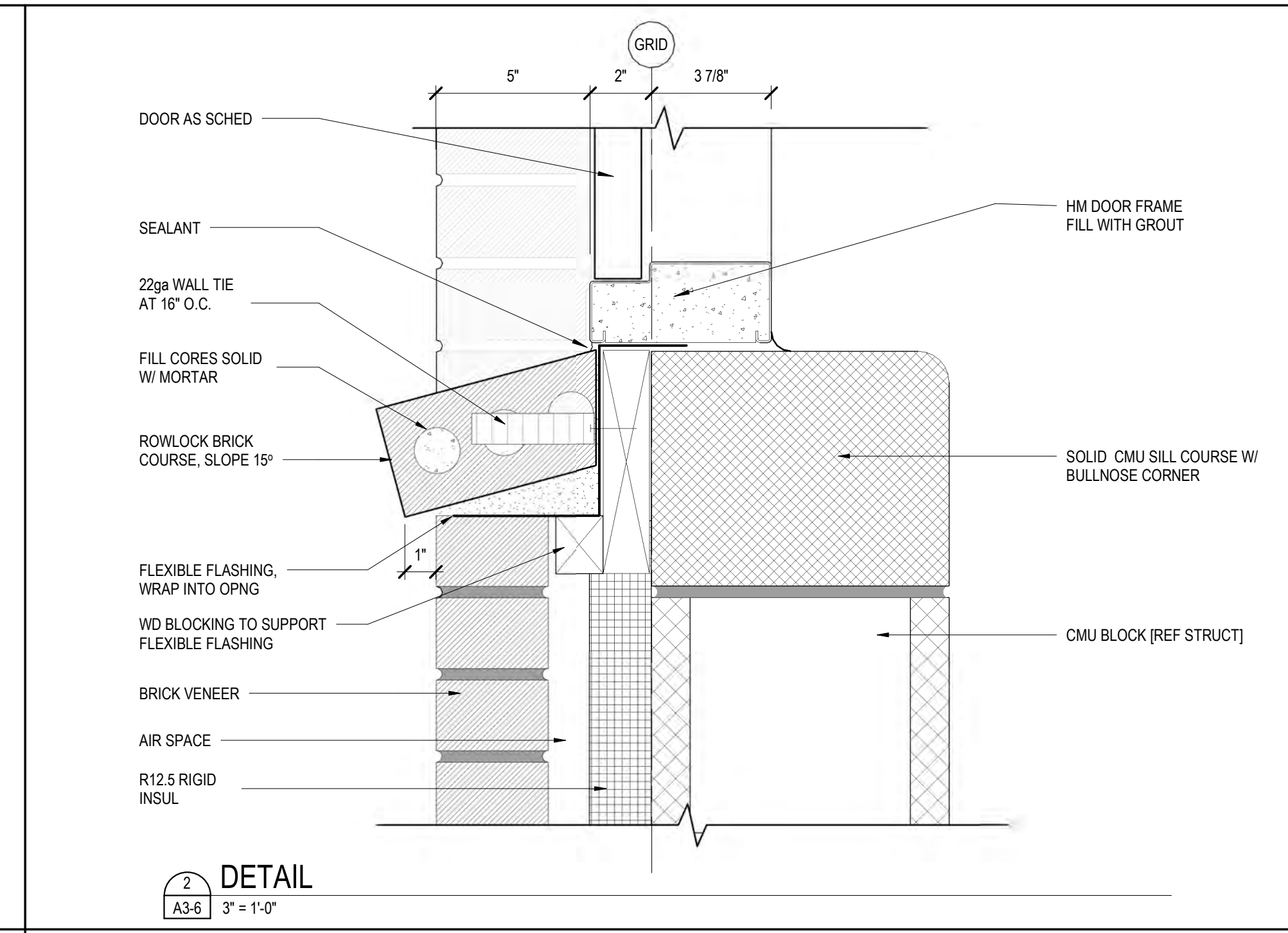
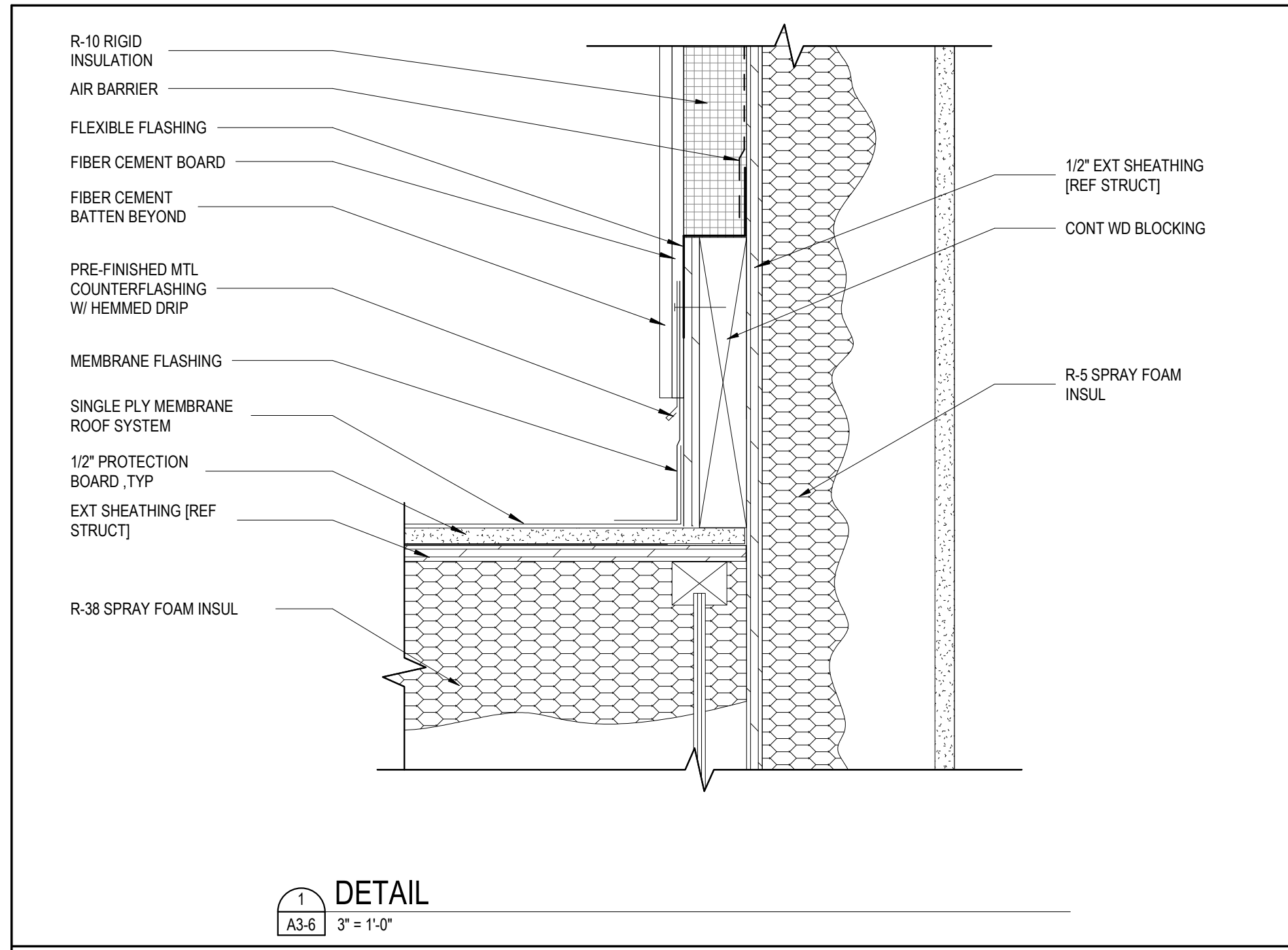


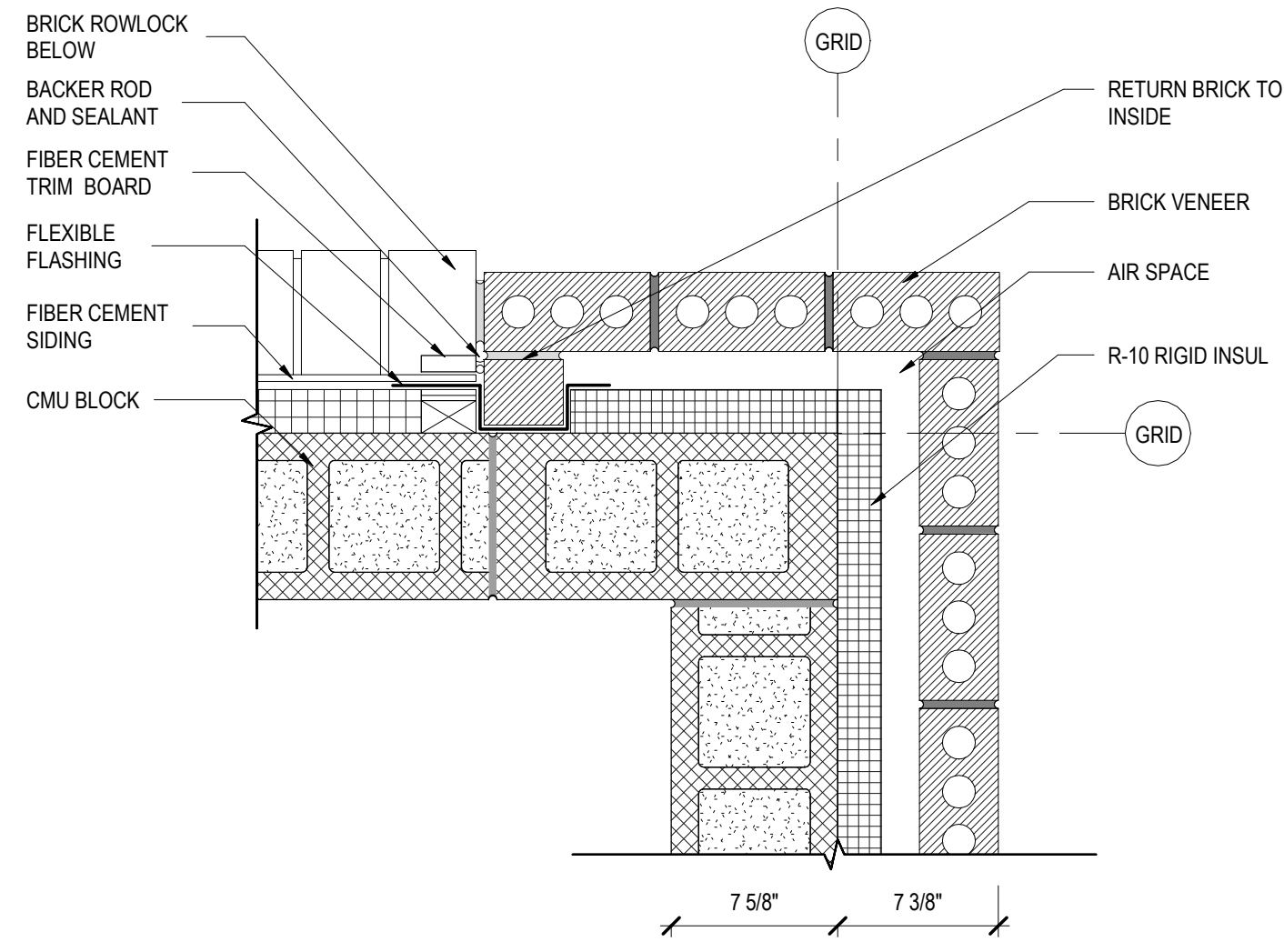
1 WALL SECTION
A3-4 1/2" = 1'-0"



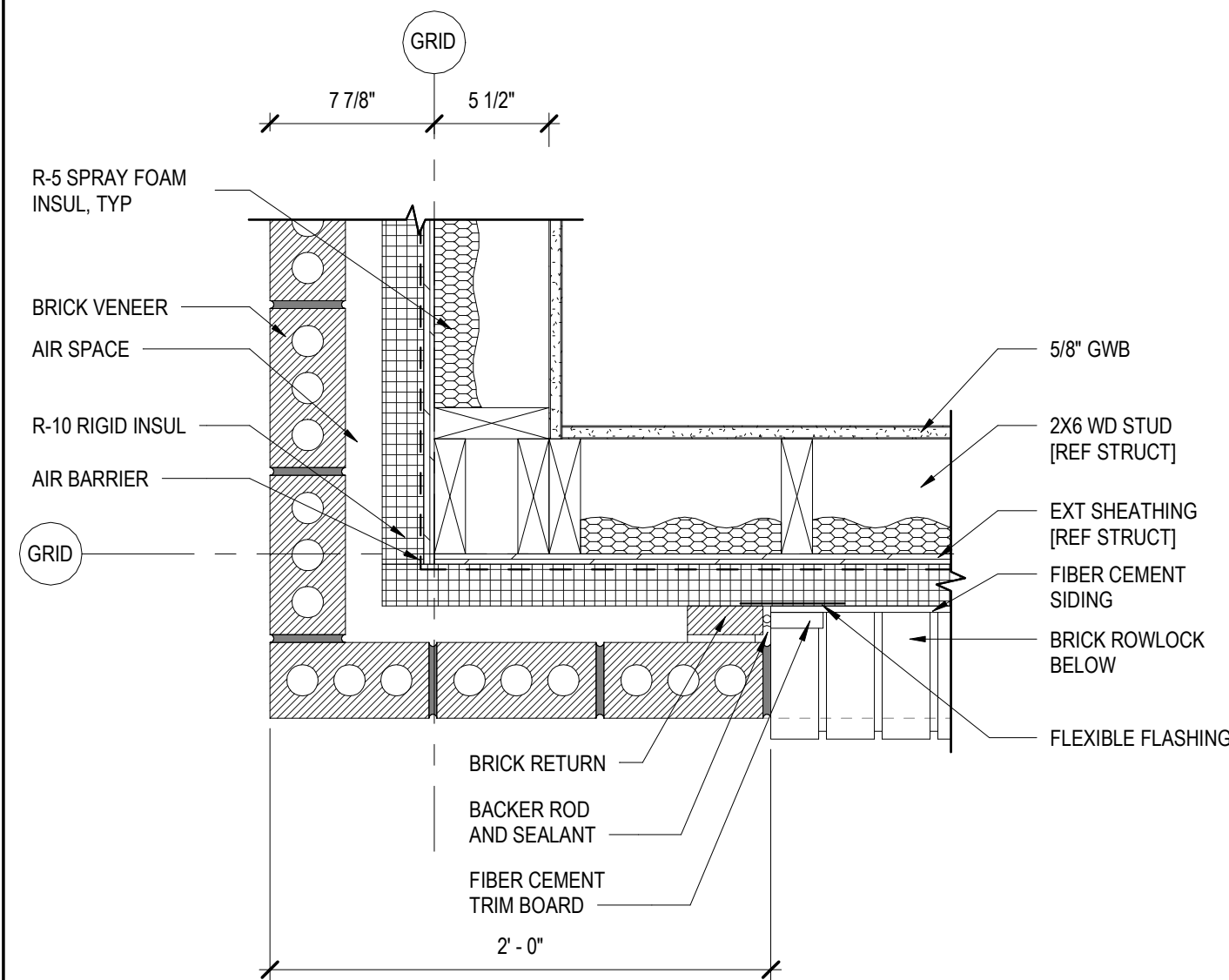
2 WALL SECTION
A3-4 1/2" = 1'-0"



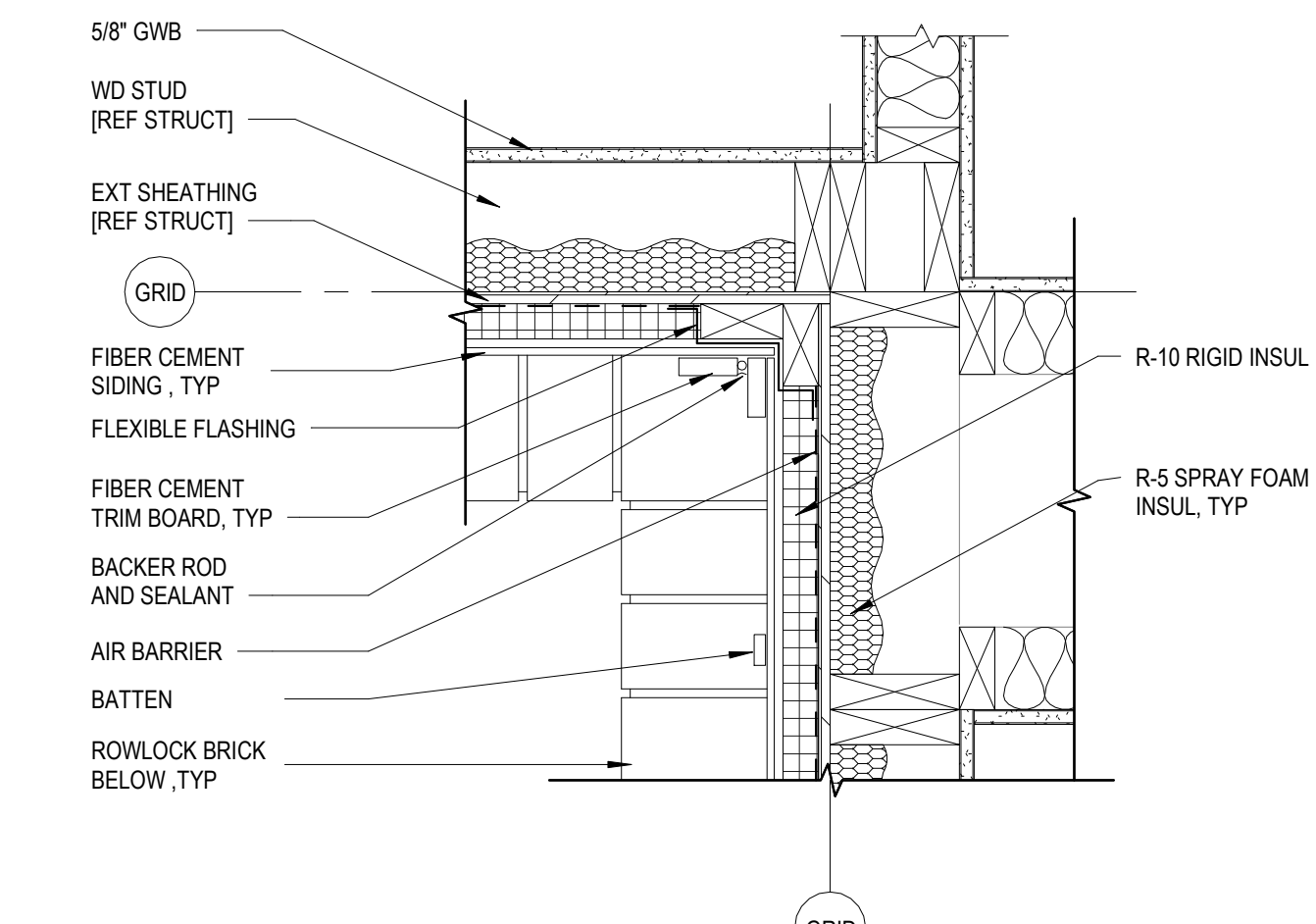




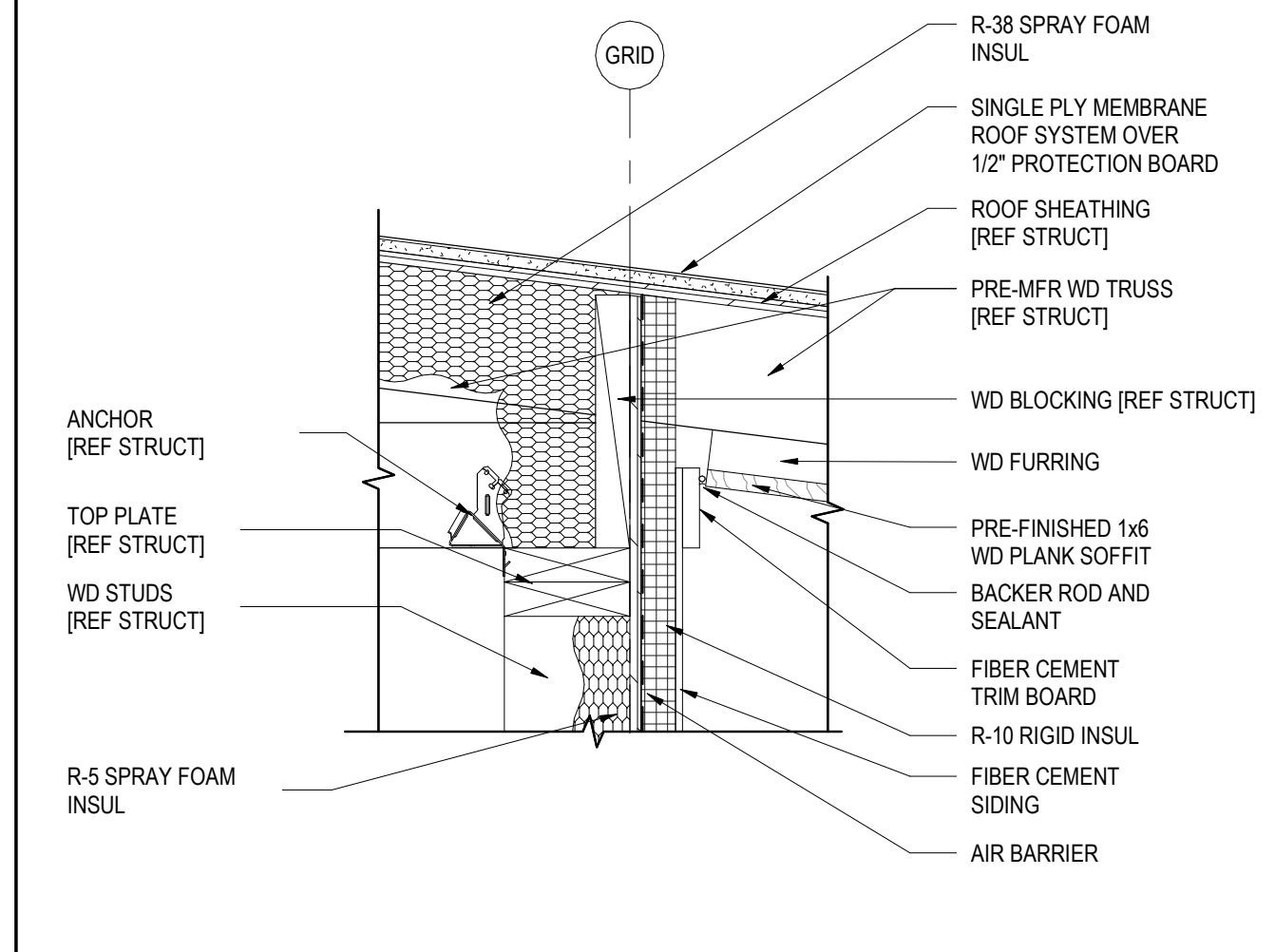
1
A3-7 1 1/2" = 1'-0"



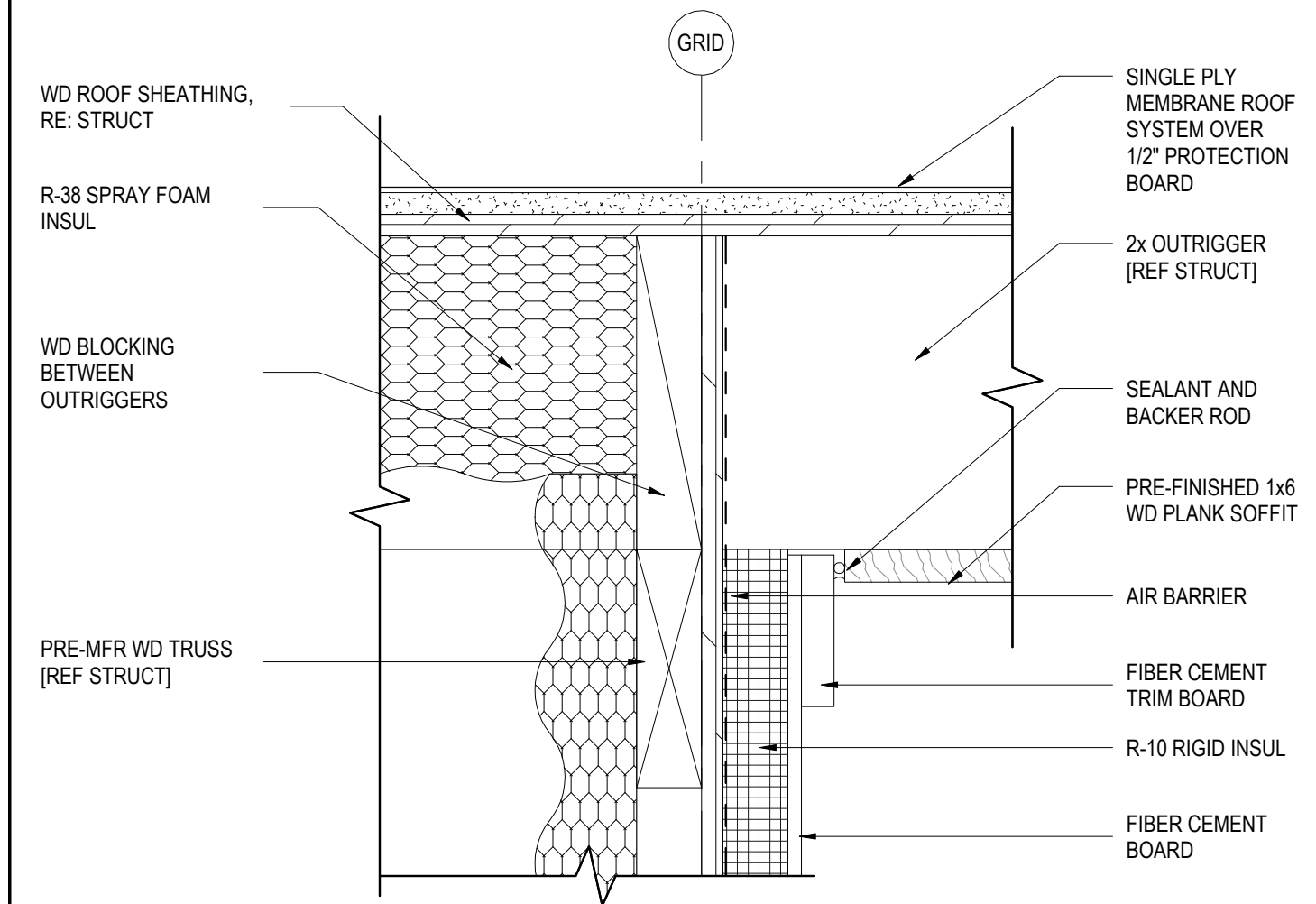
2
A3-7 1 1/2" = 1'-0"



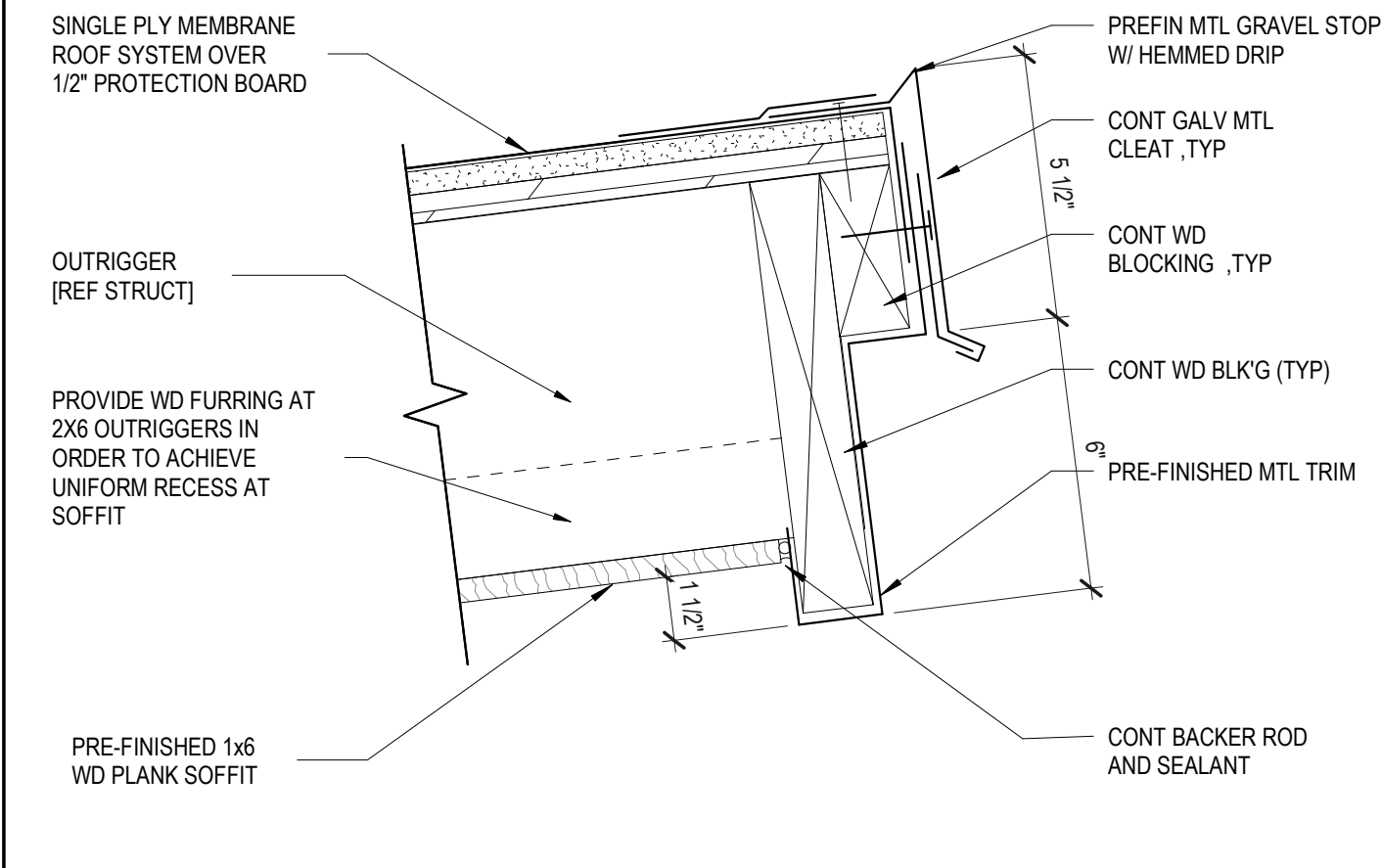
3
A3-7 1 1/2" = 1'-0"



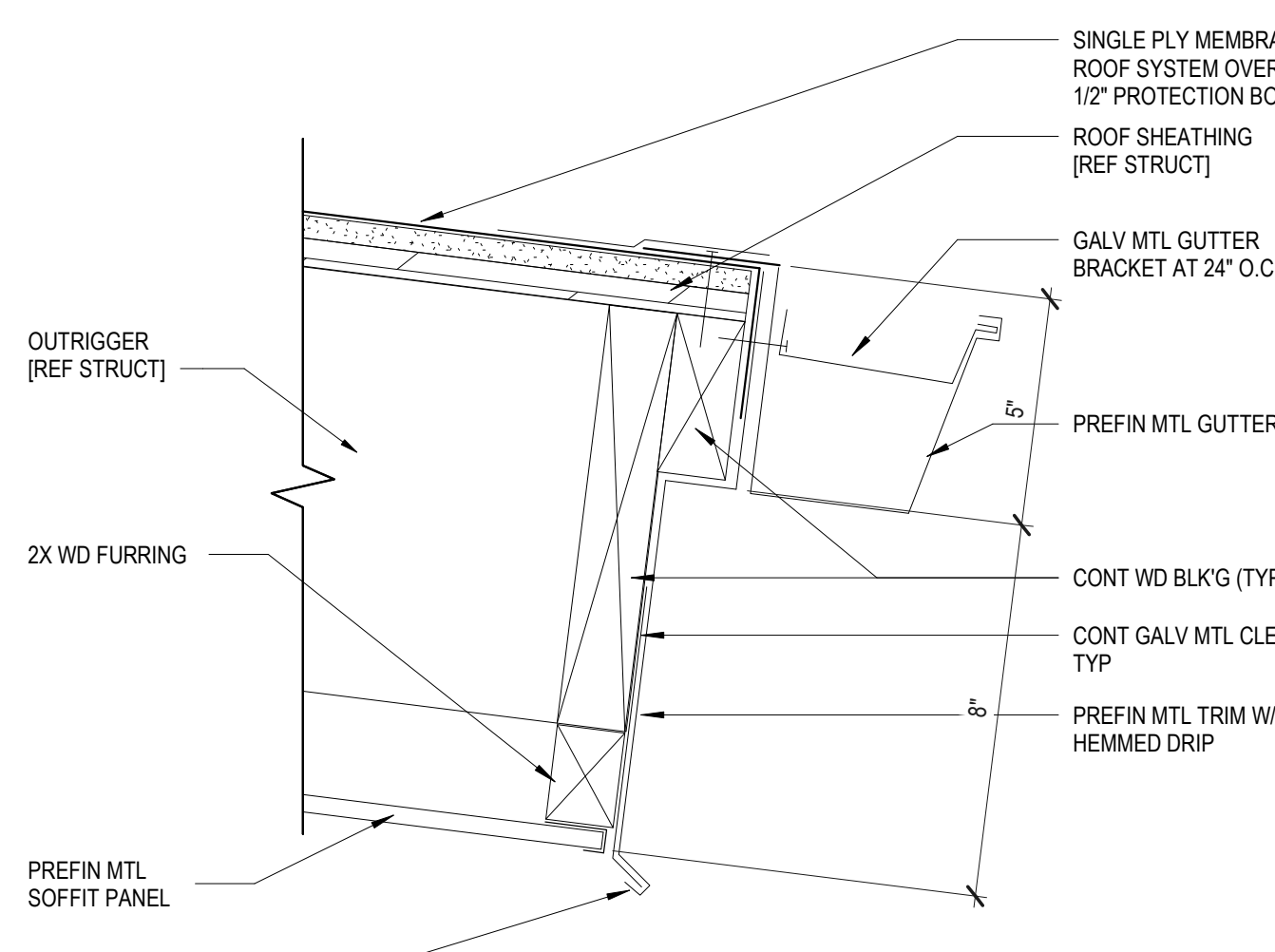
4
A3-7 1 1/2" = 1'-0"



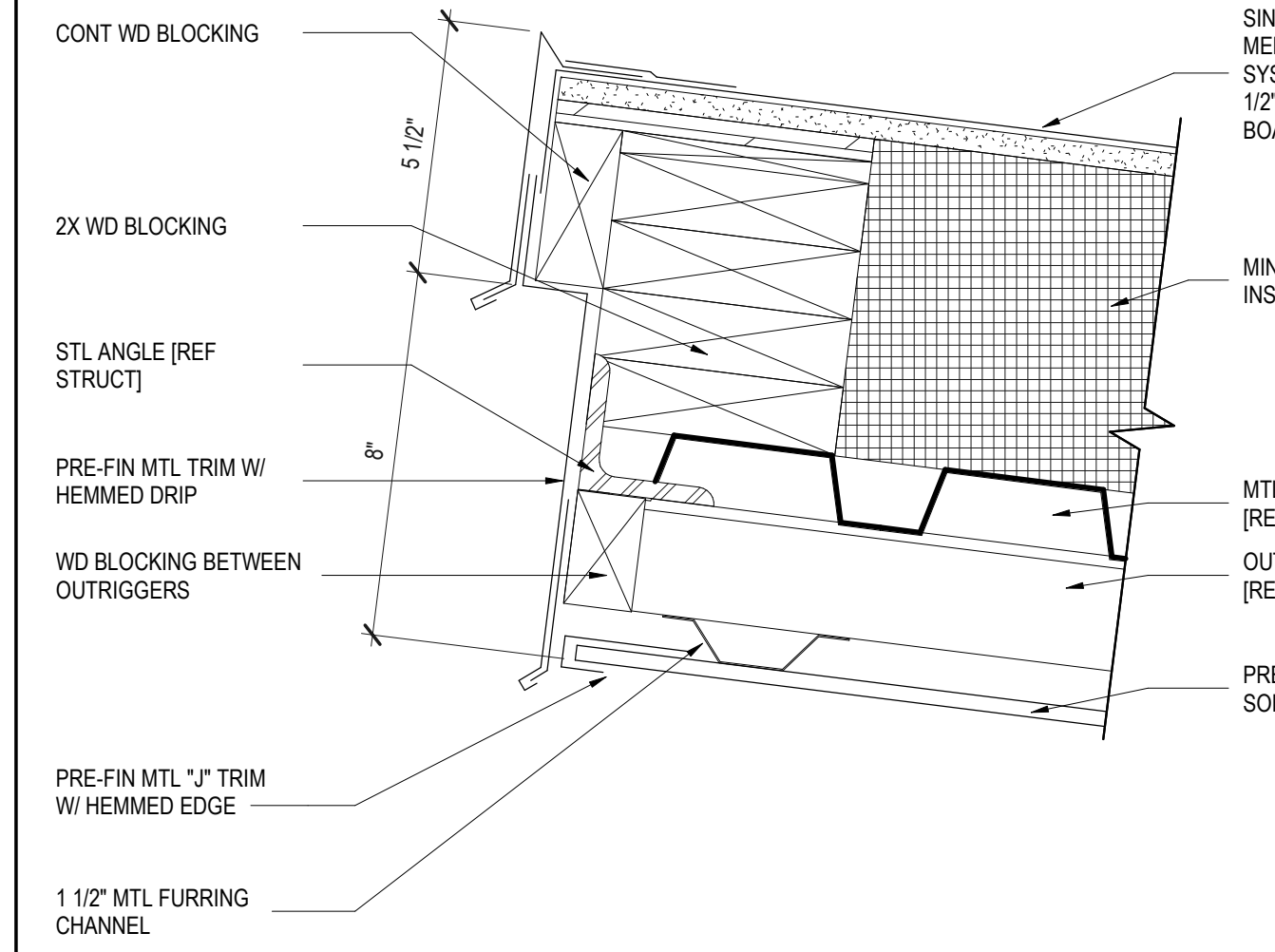
5
A3-7 3" = 1'-0"



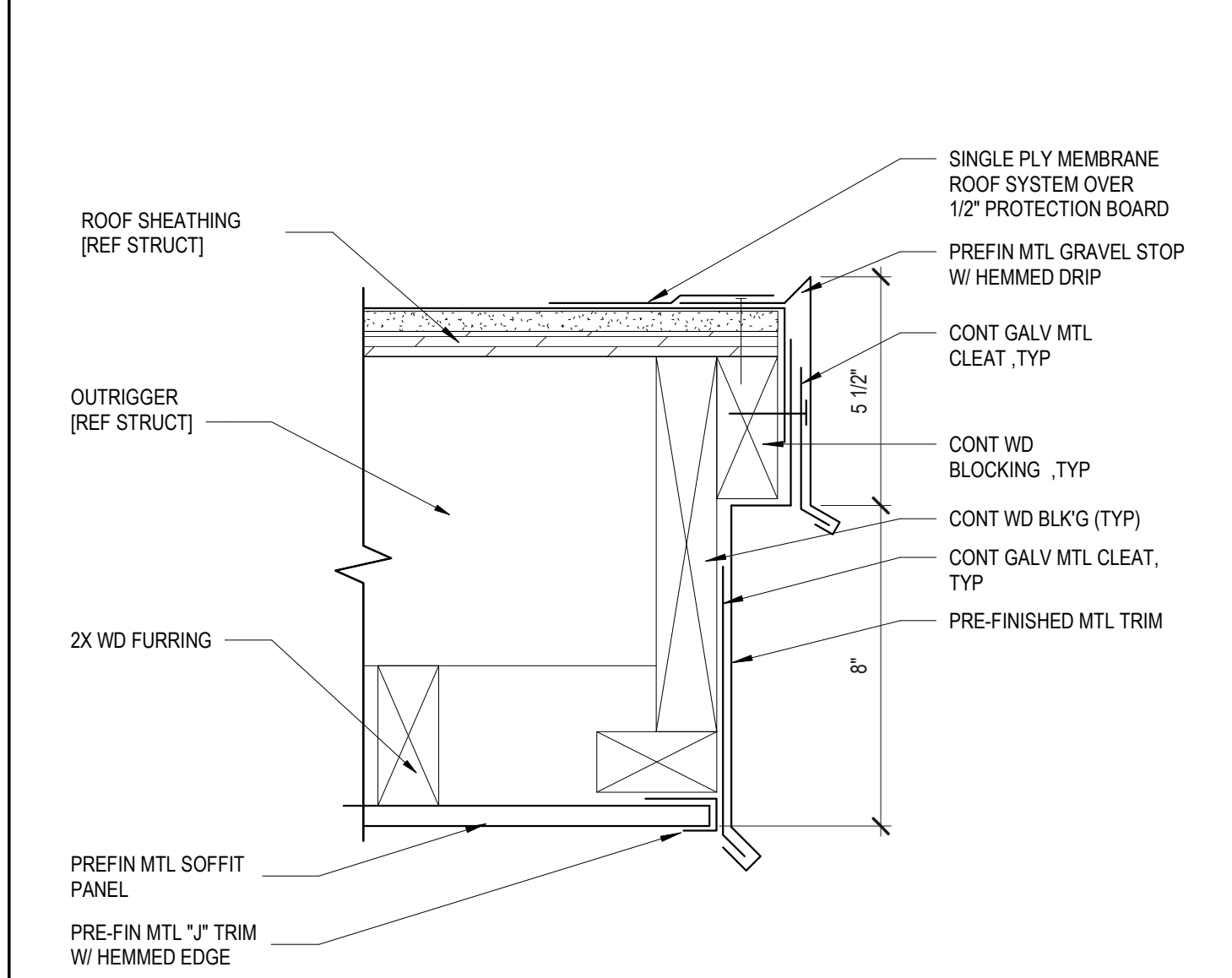
6
A3-7 3" = 1'-0"



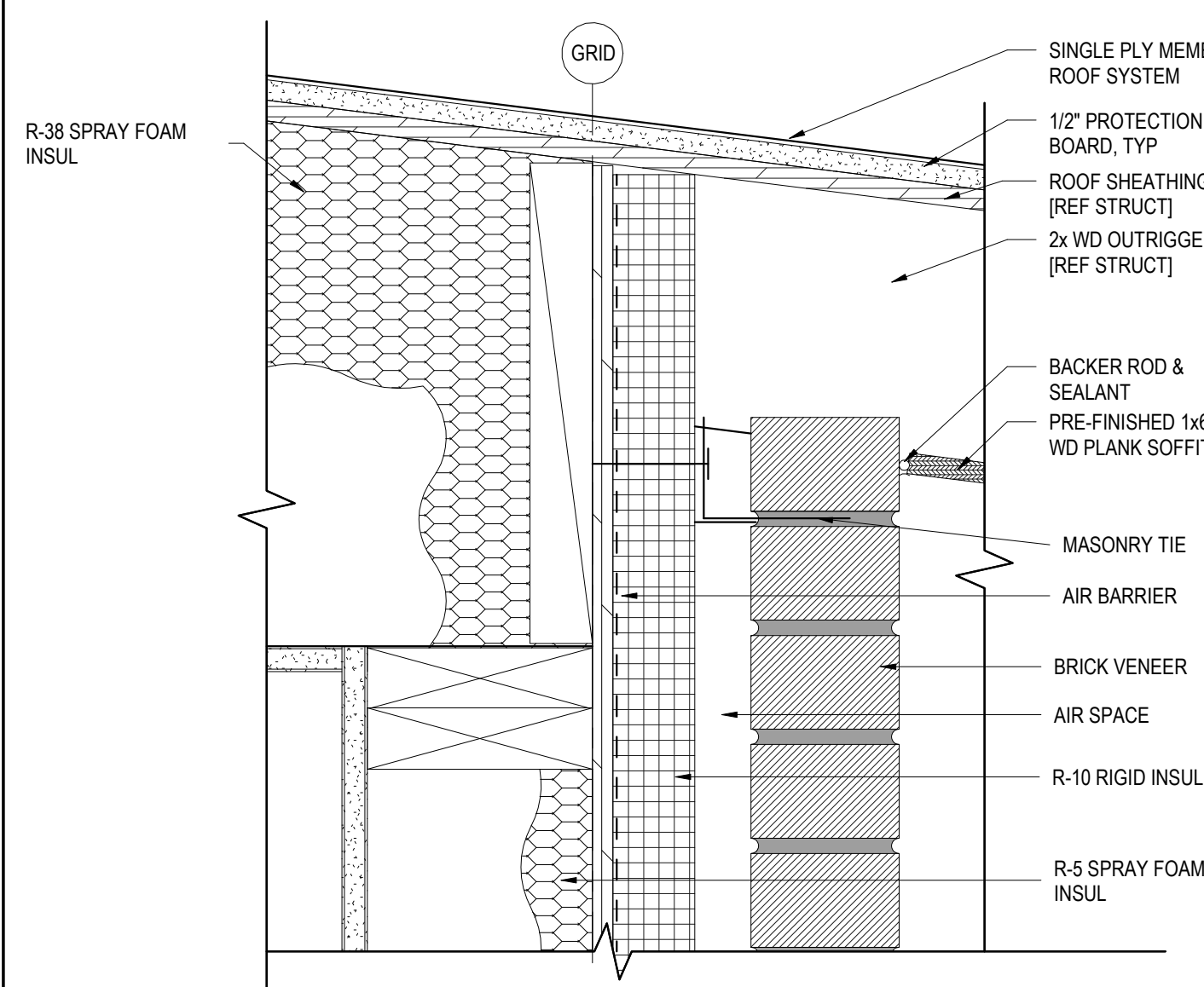
7
A3-7 3" = 1'-0"



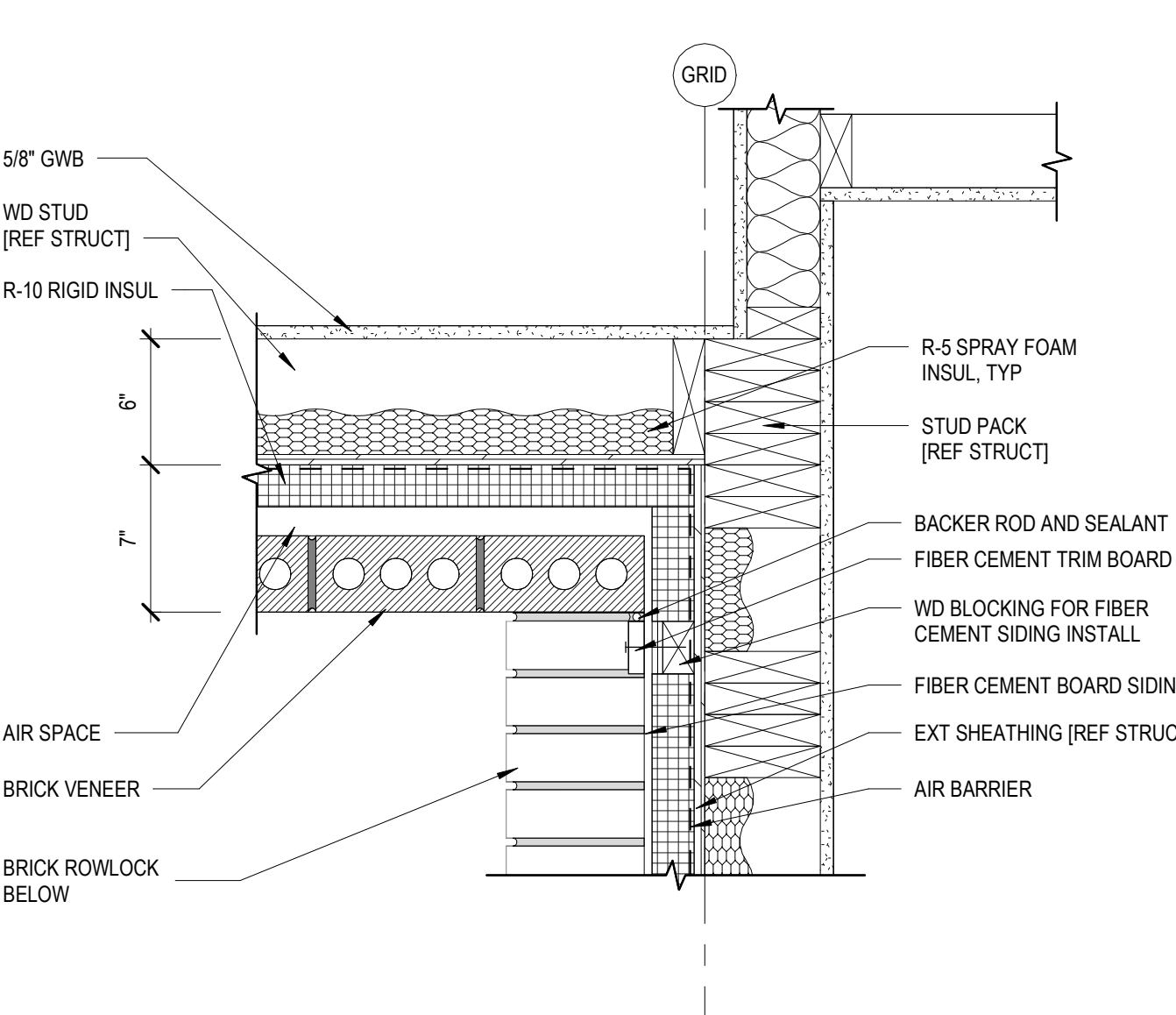
8
A3-7 3" = 1'-0"



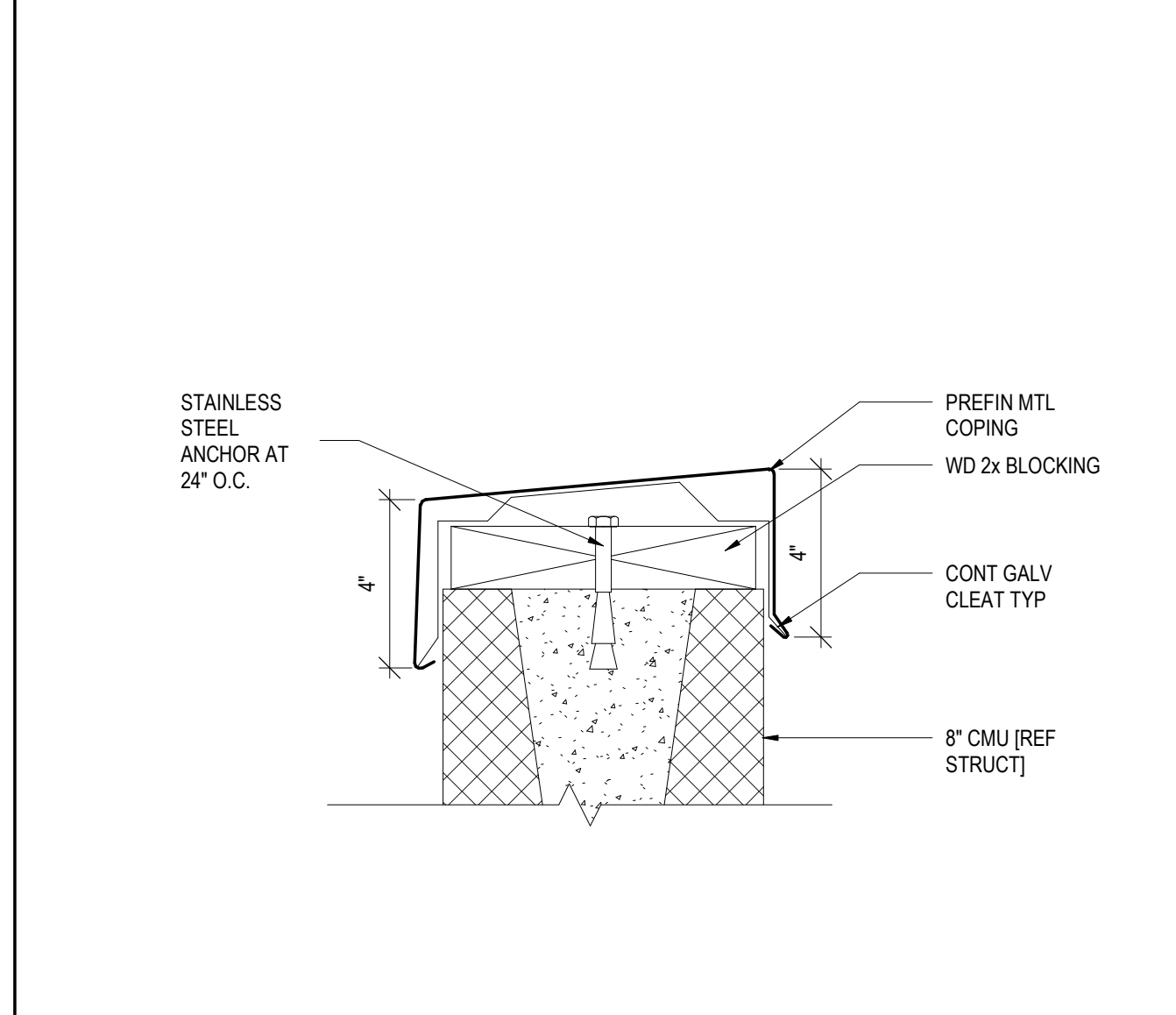
9
A3-7 3" = 1'-0"



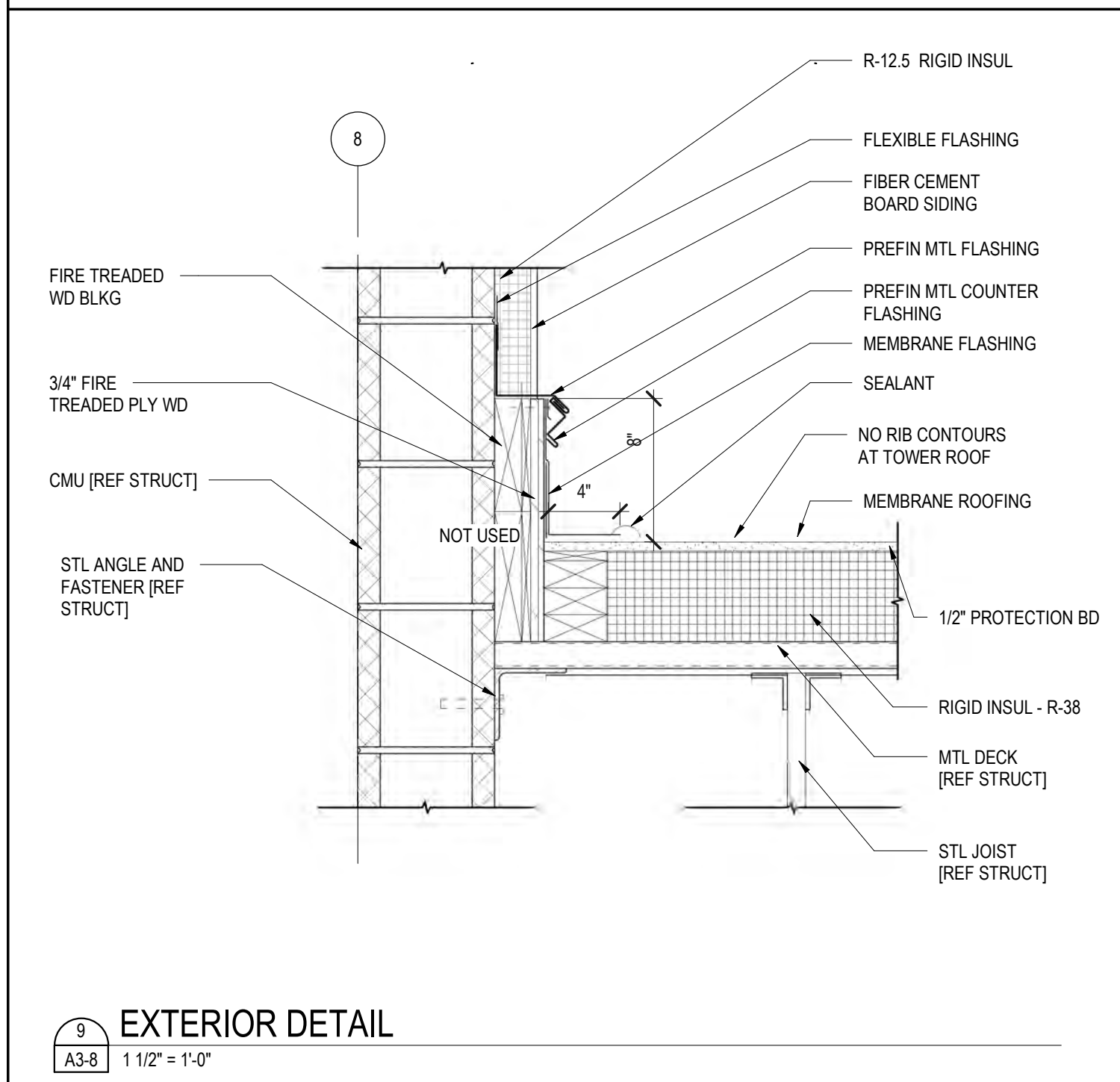
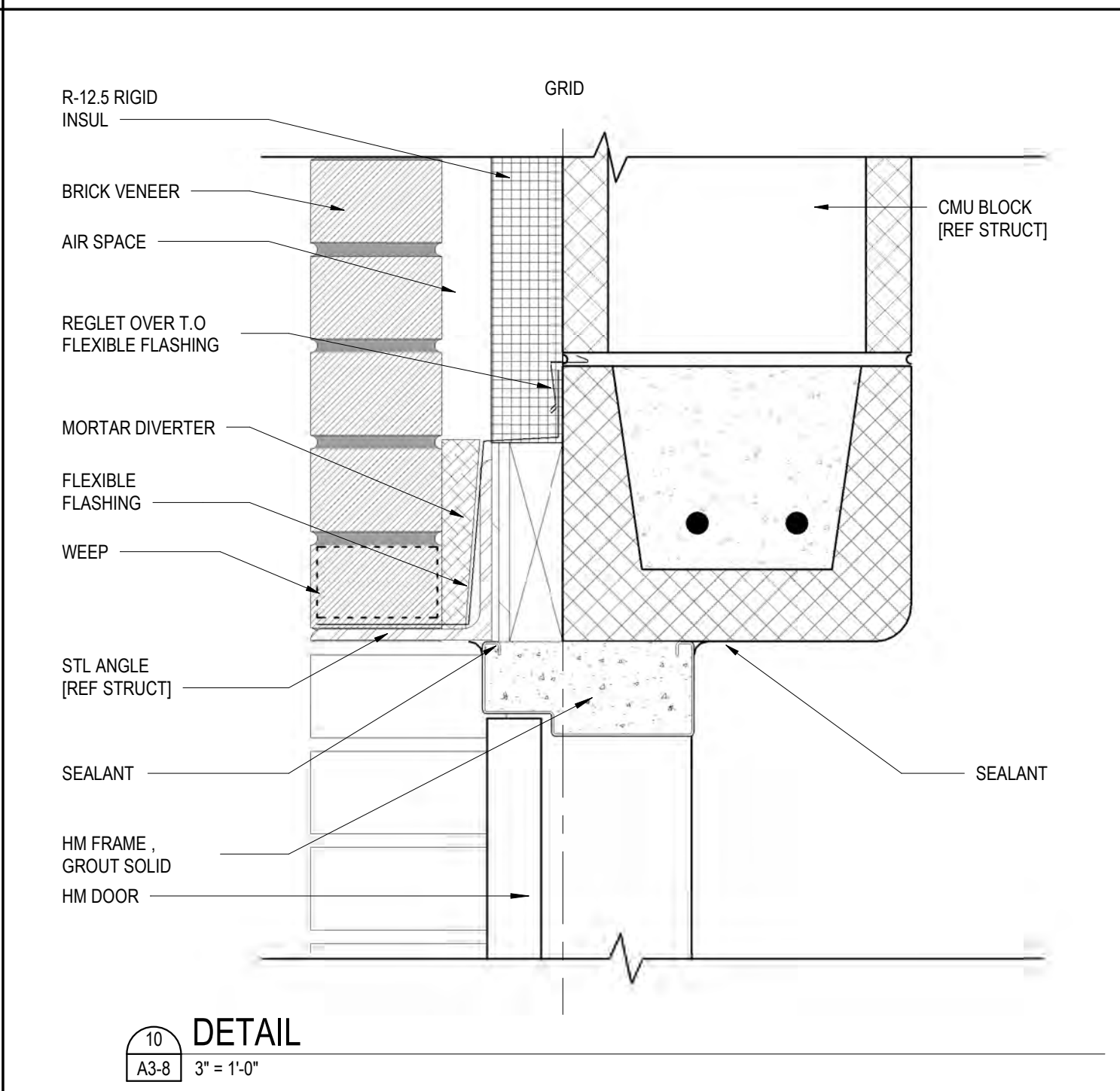
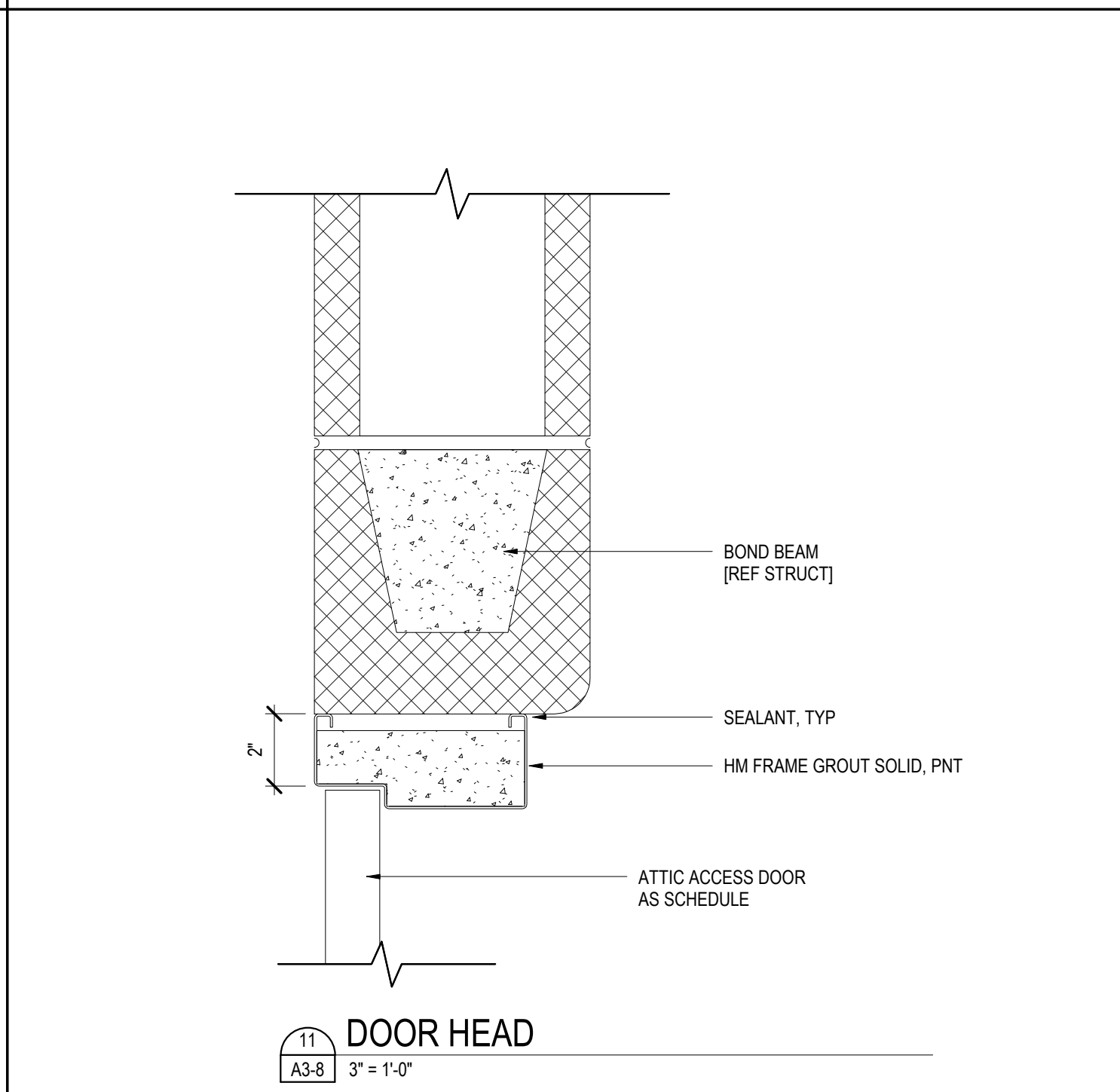
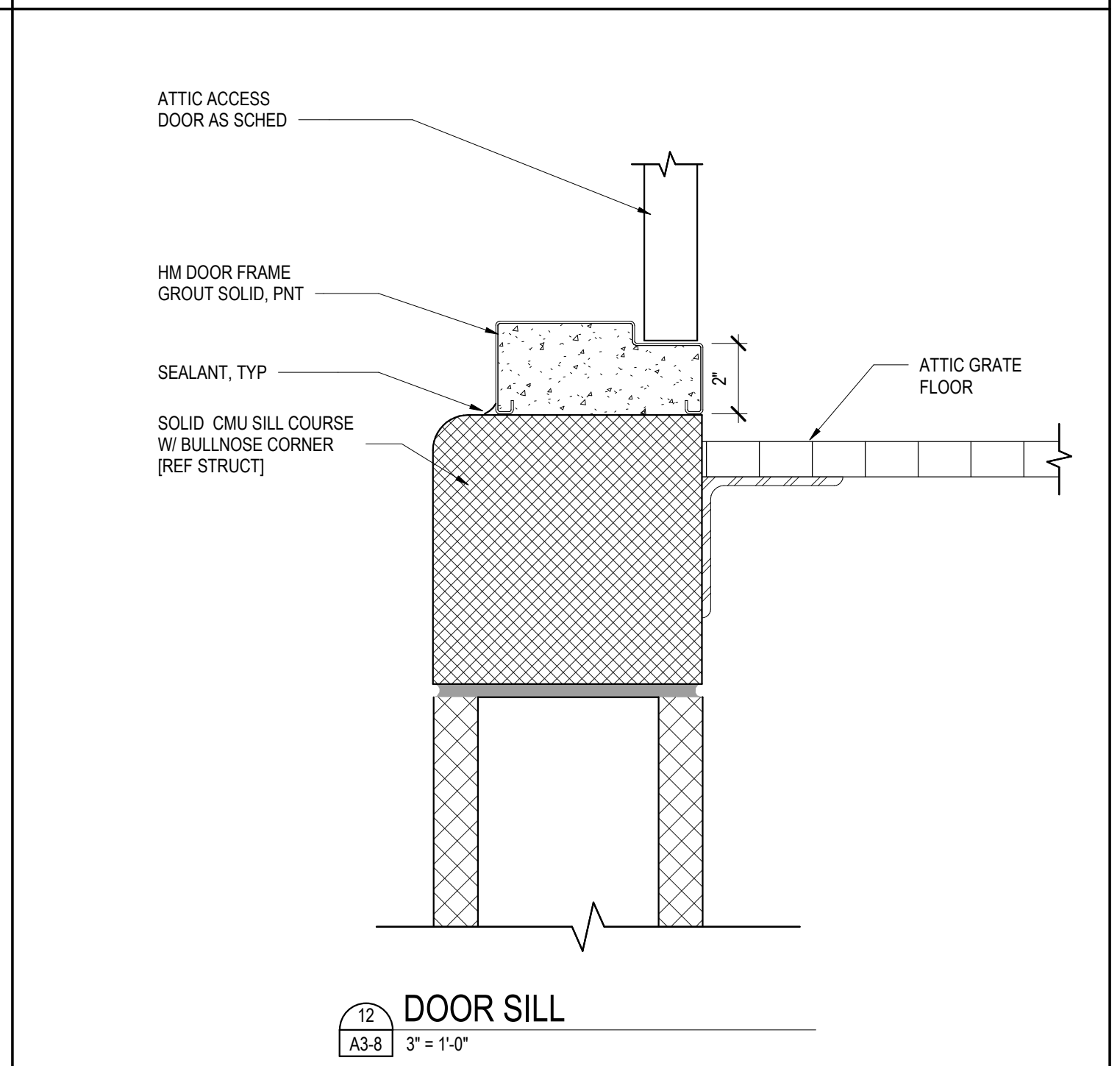
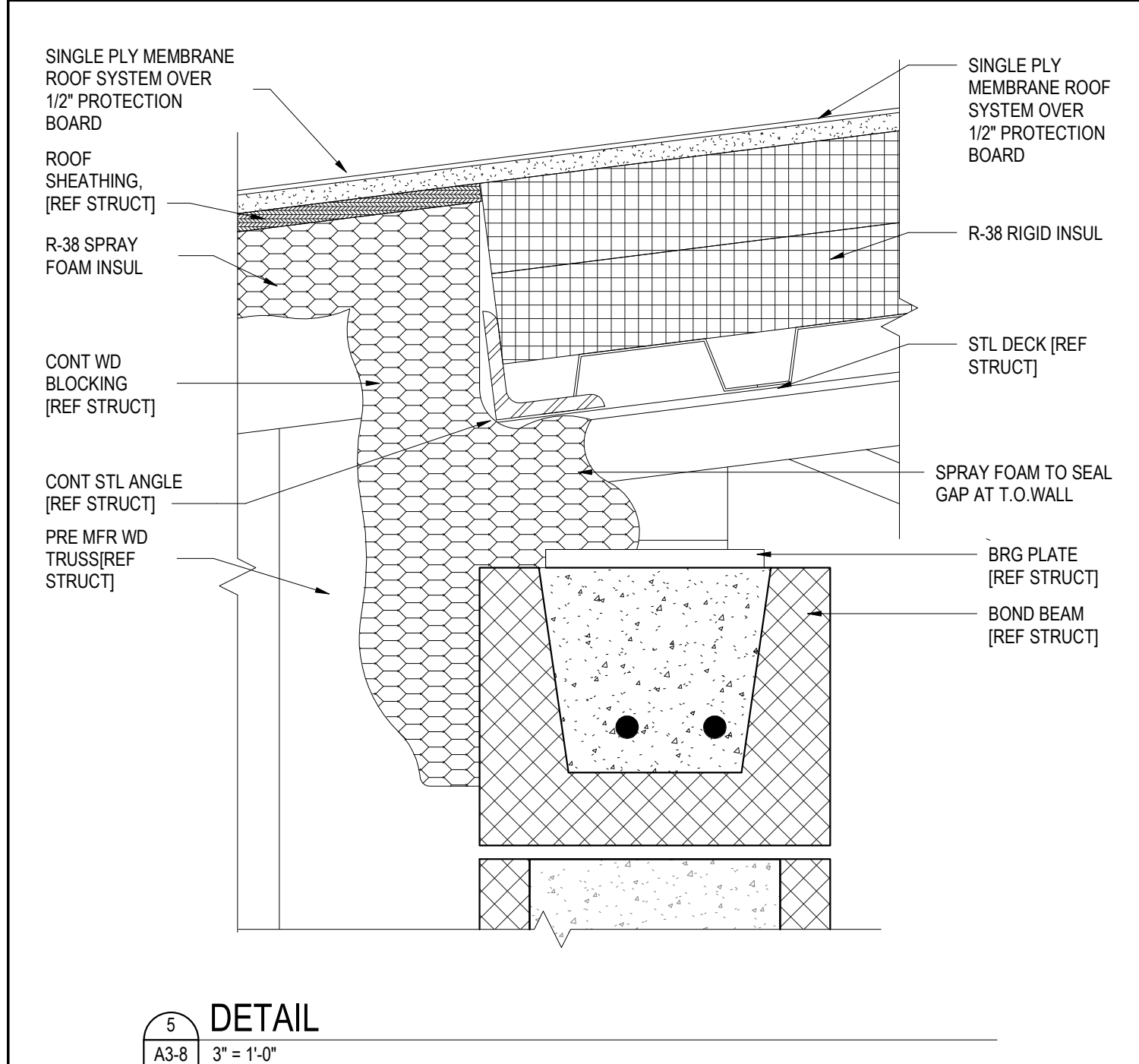
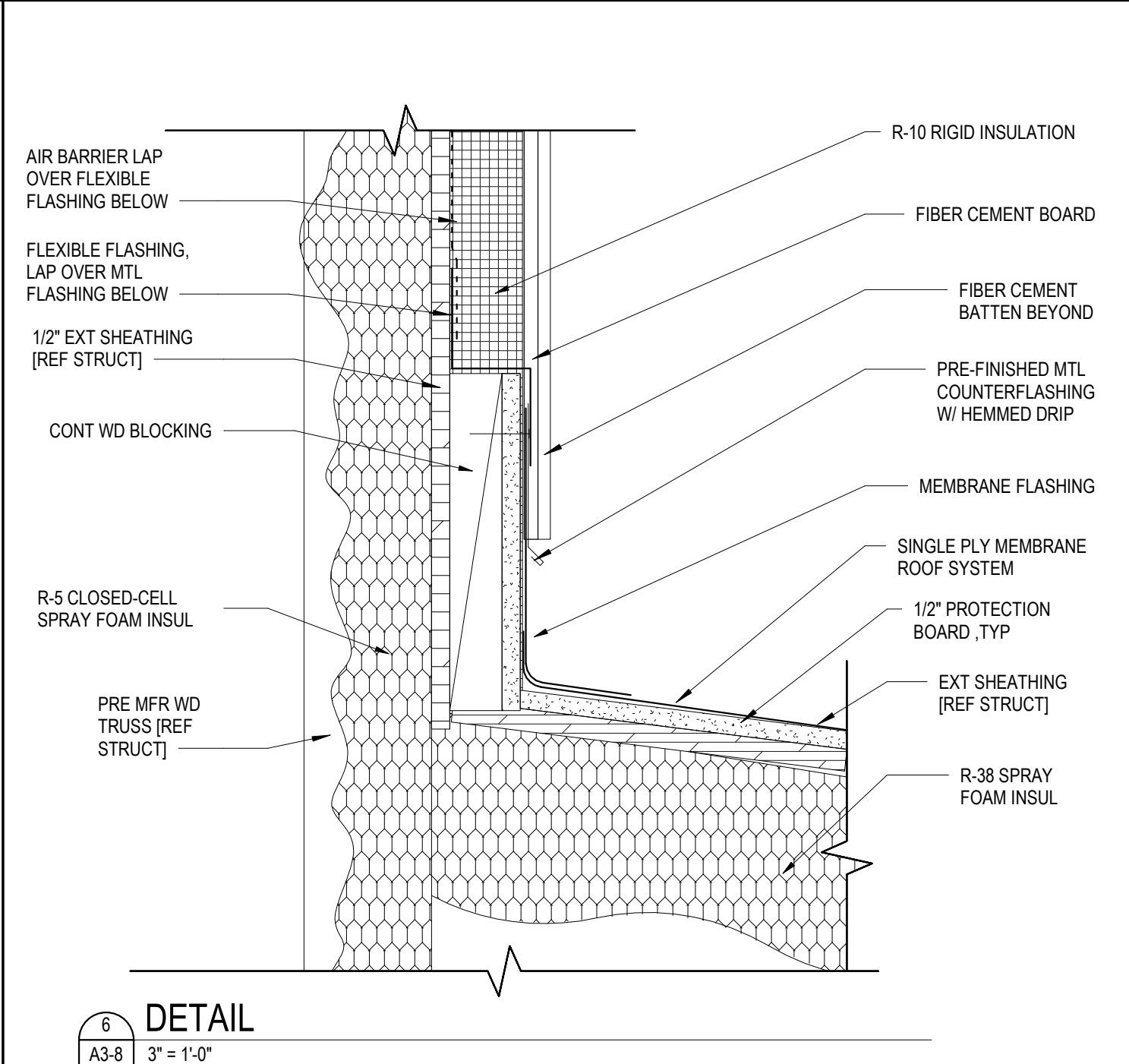
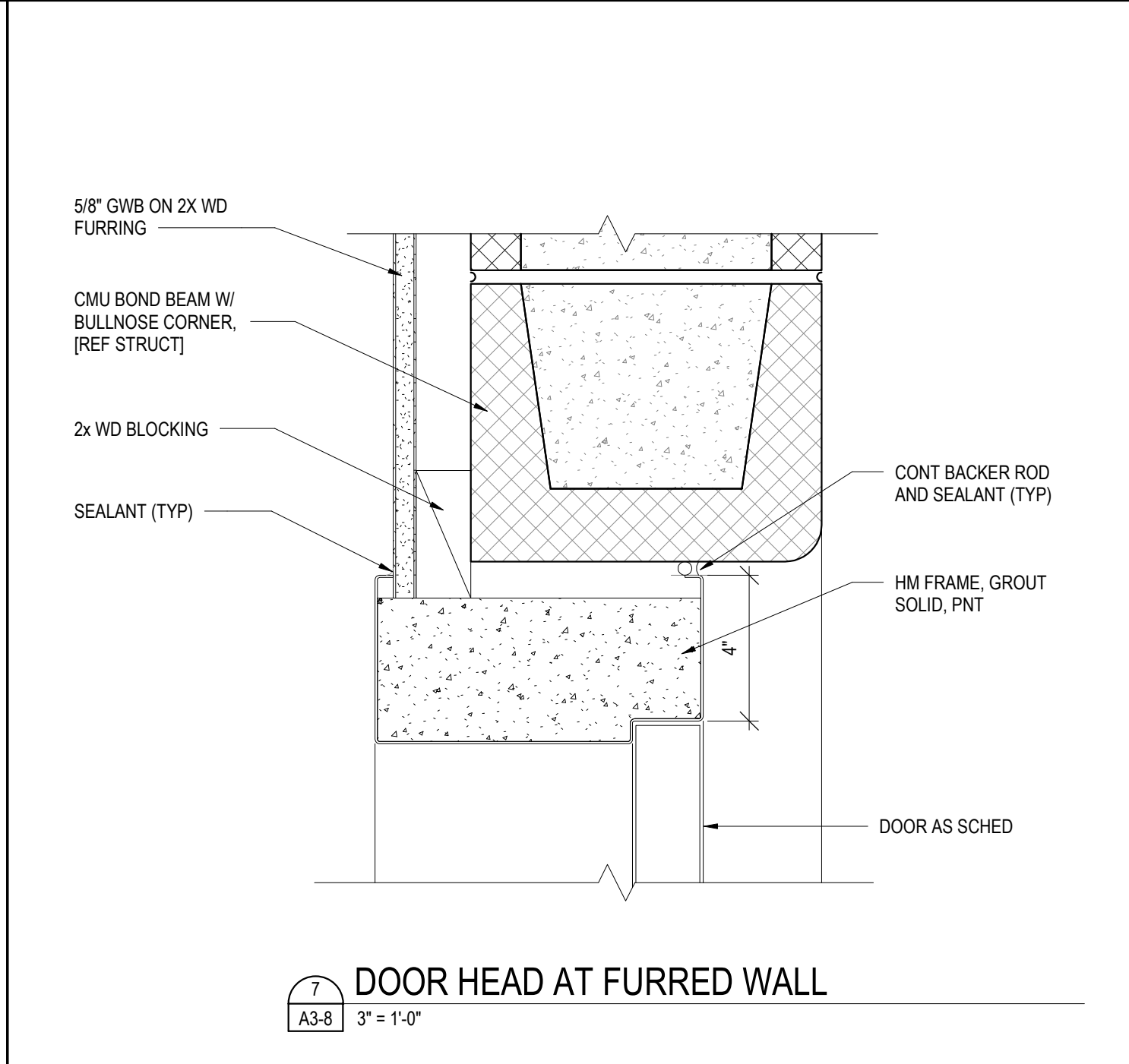
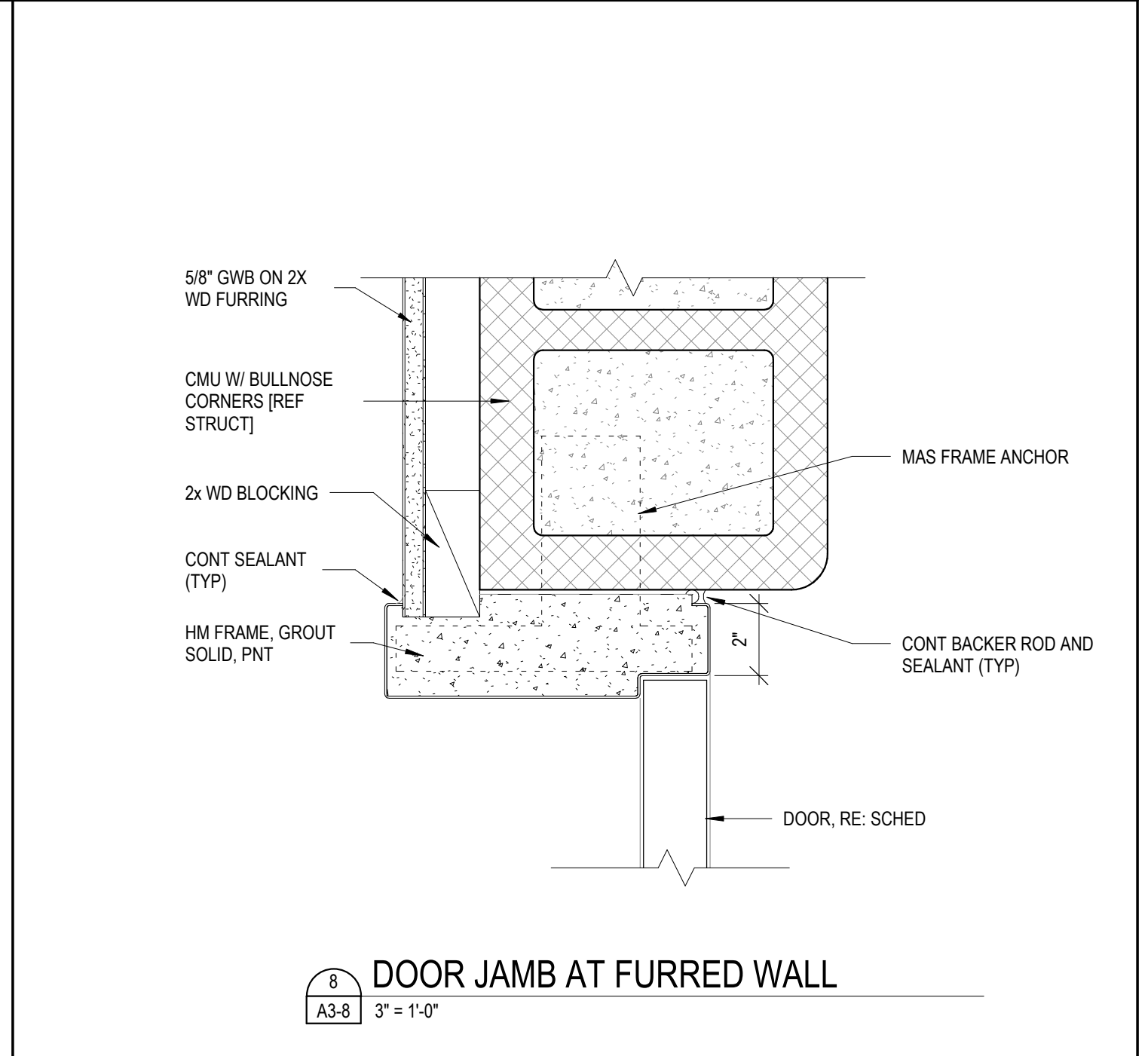
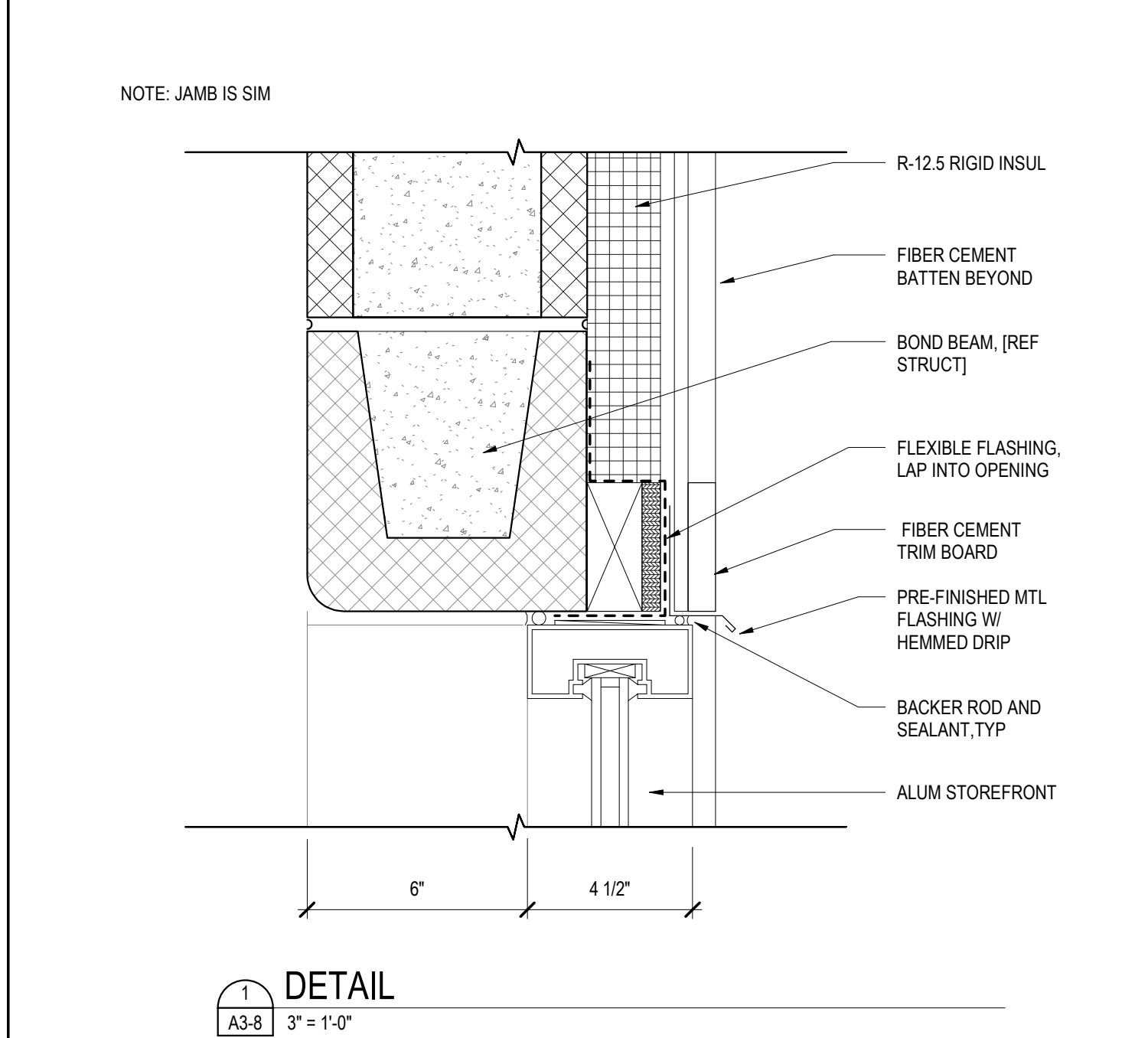
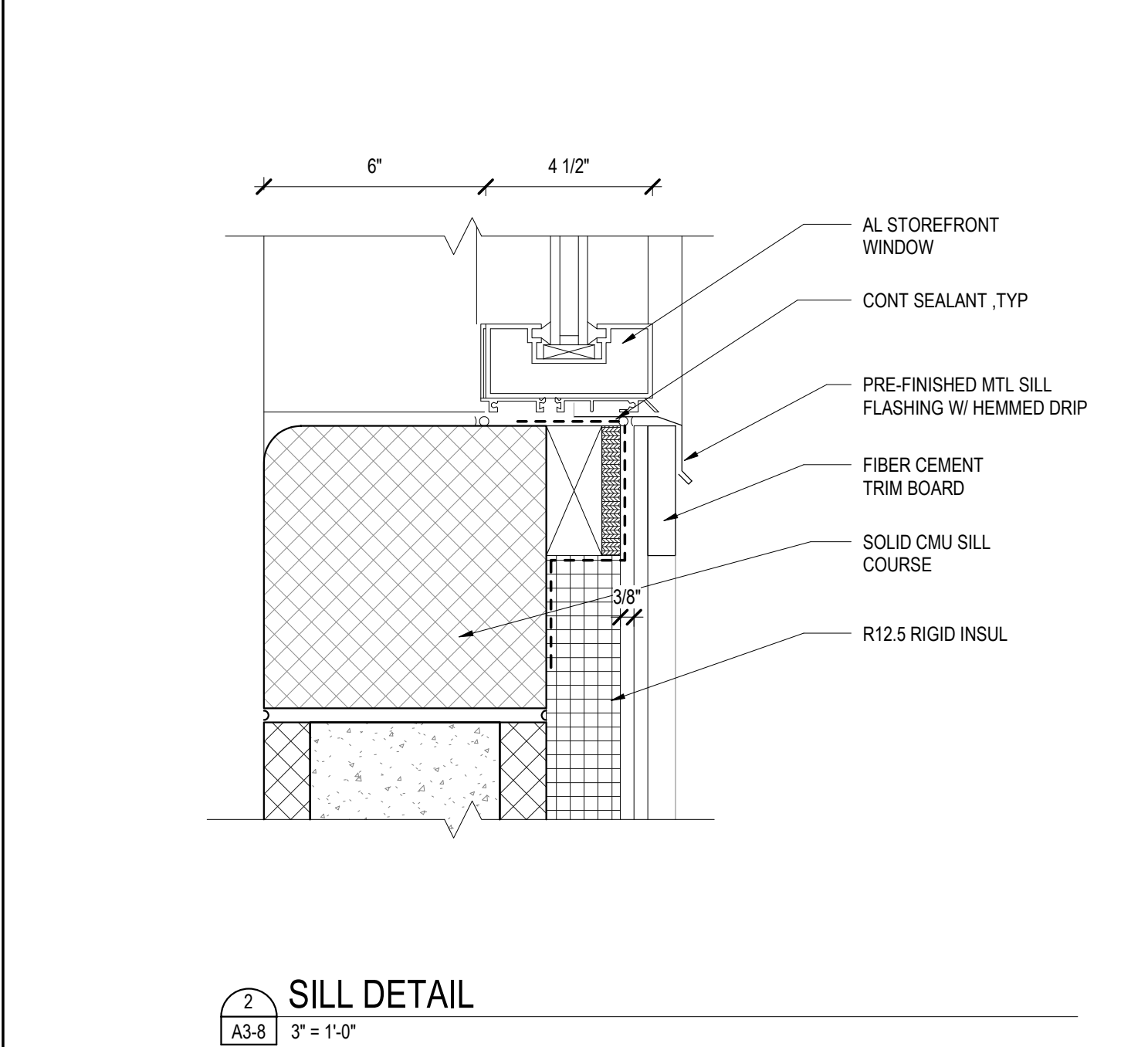
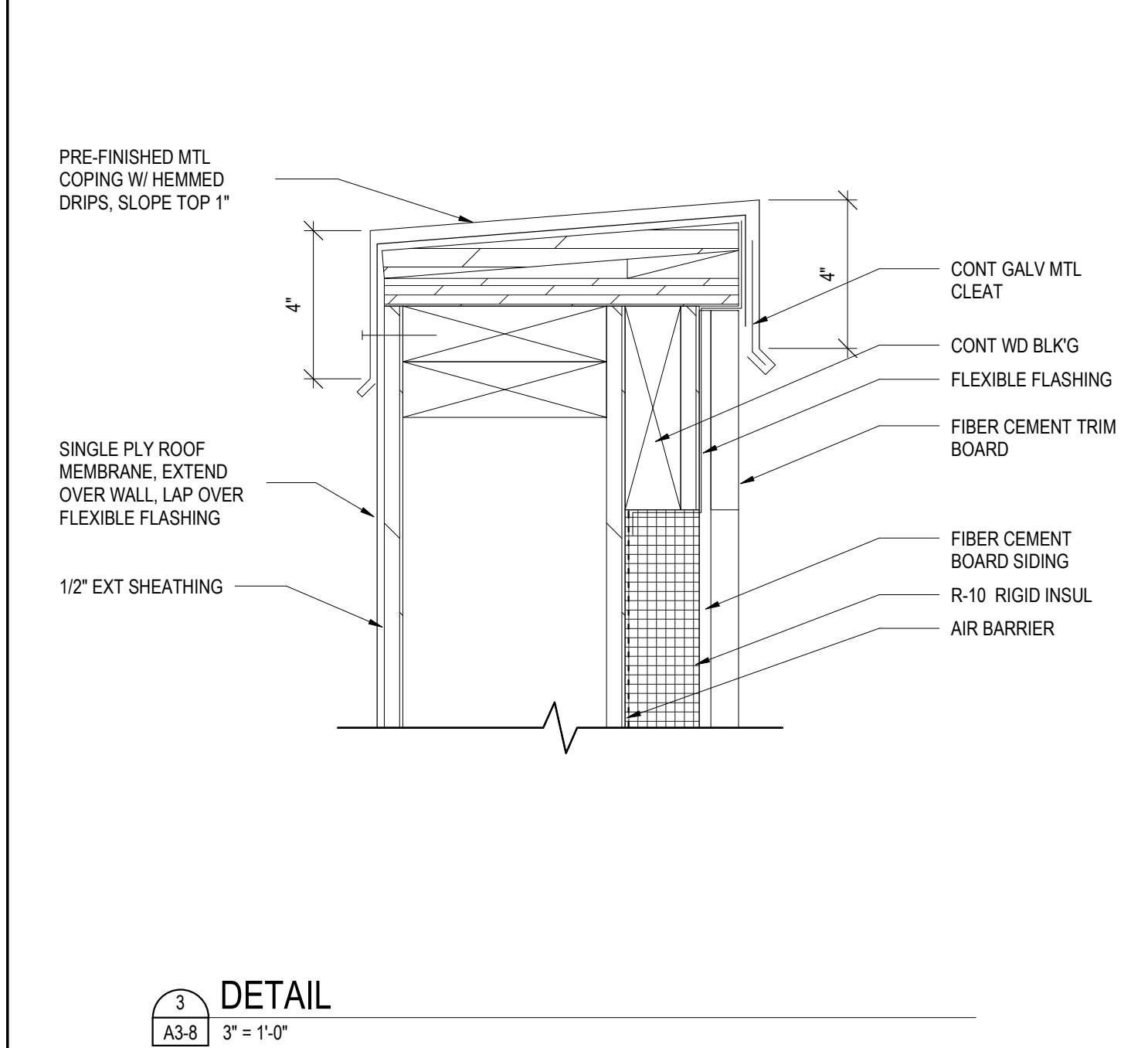
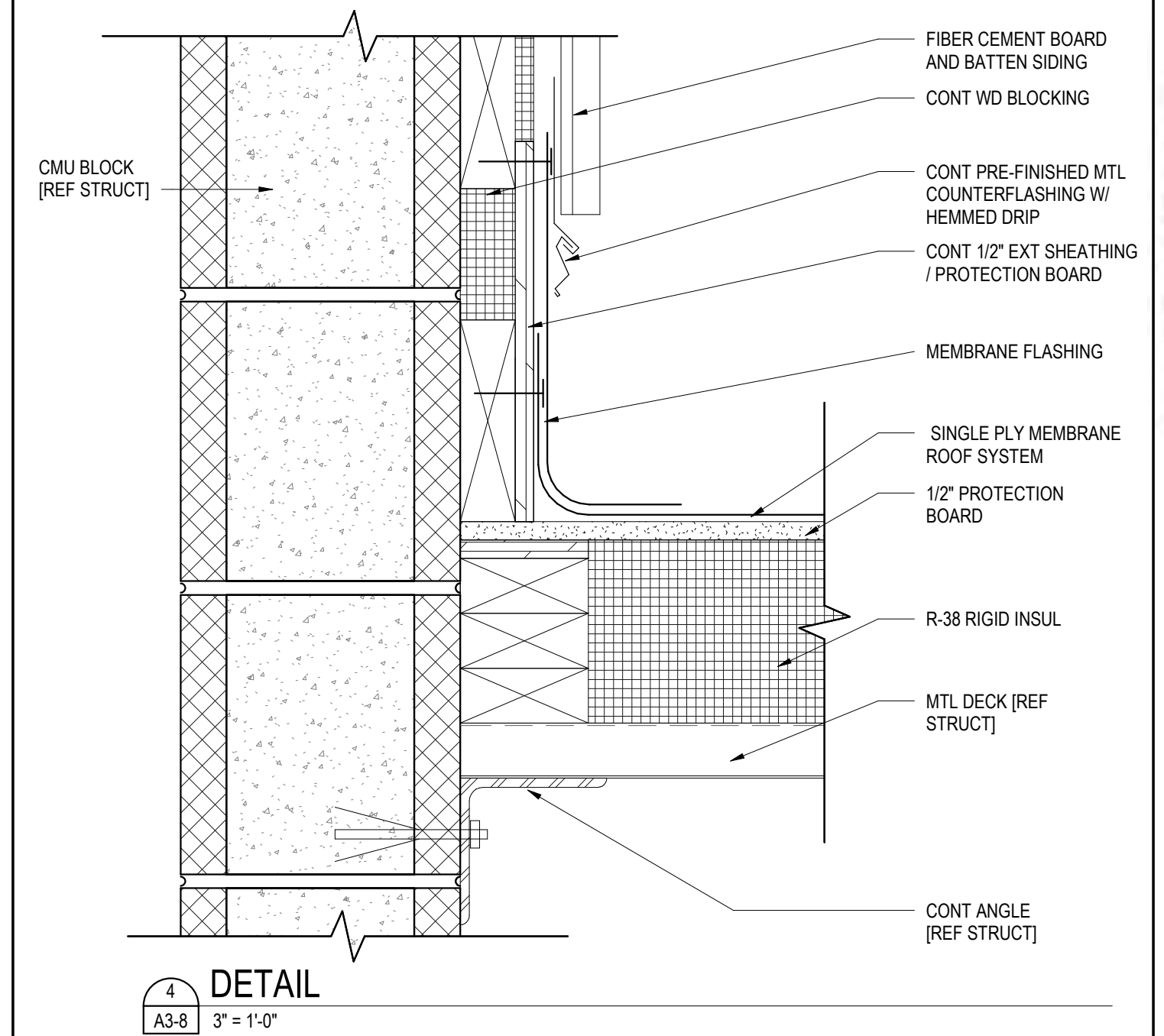
10
A3-7 3" = 1'-0"

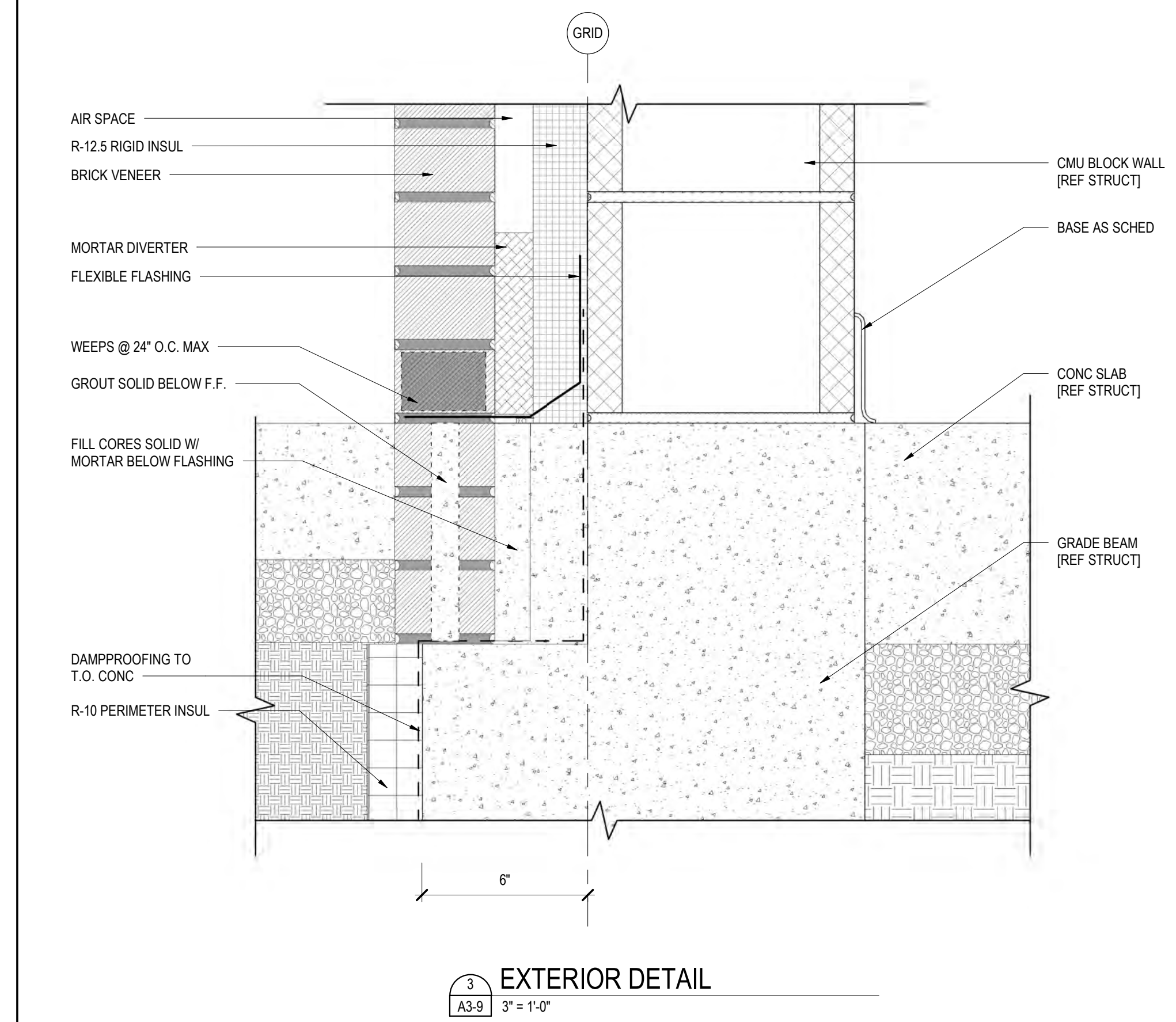


11
A3-7 1 1/2" = 1'-0"

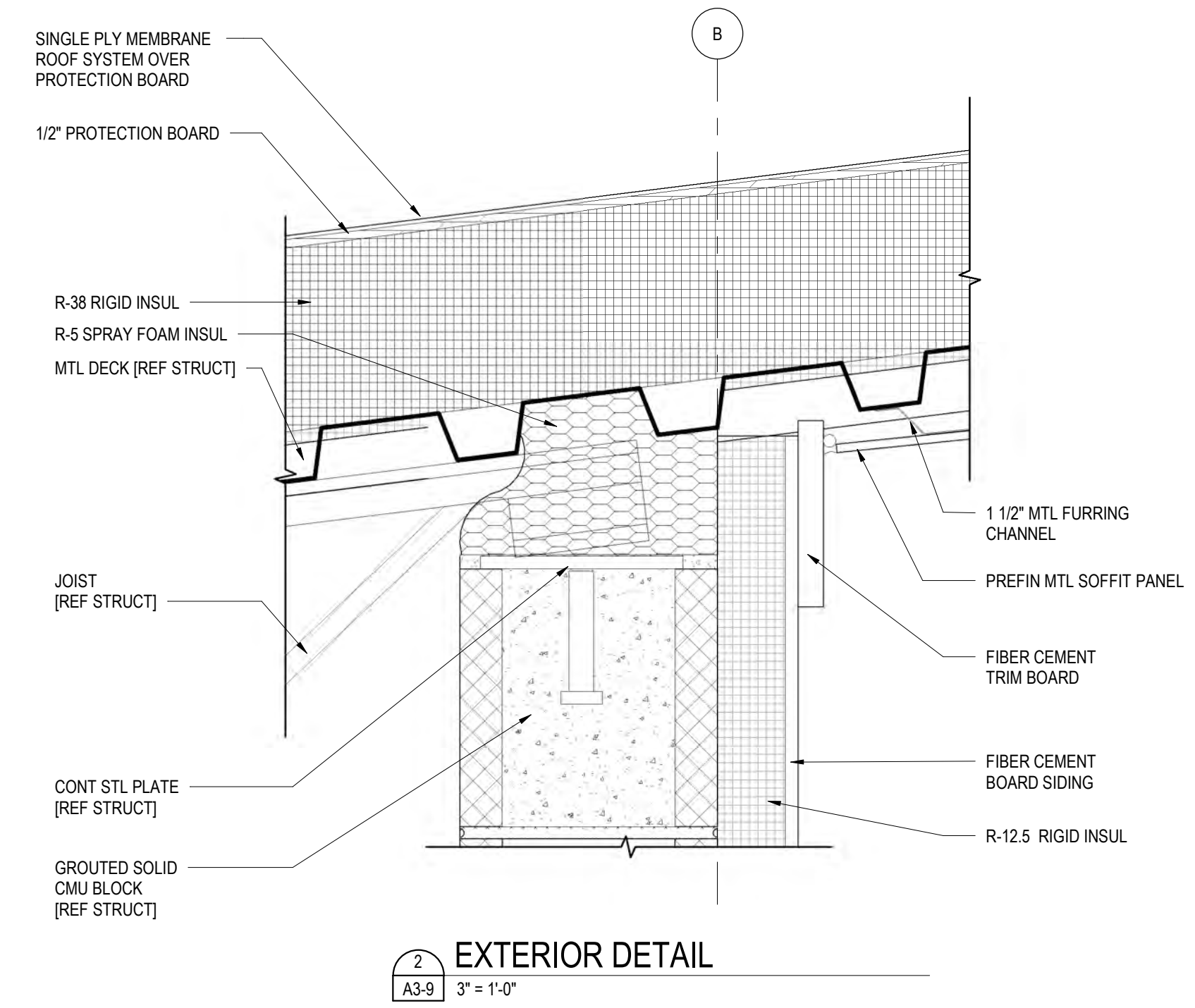


12
A3-7 3" = 1'-0"

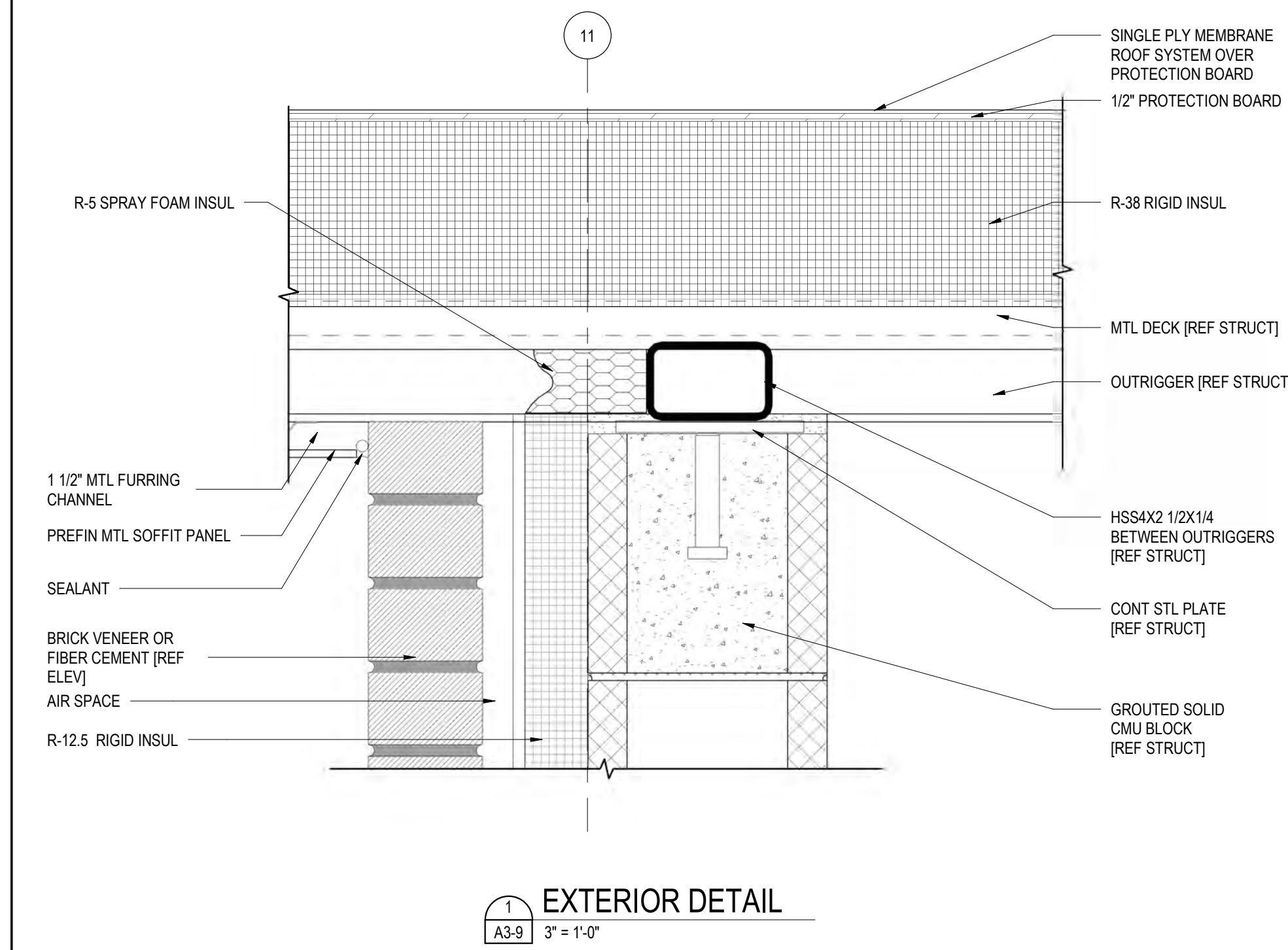




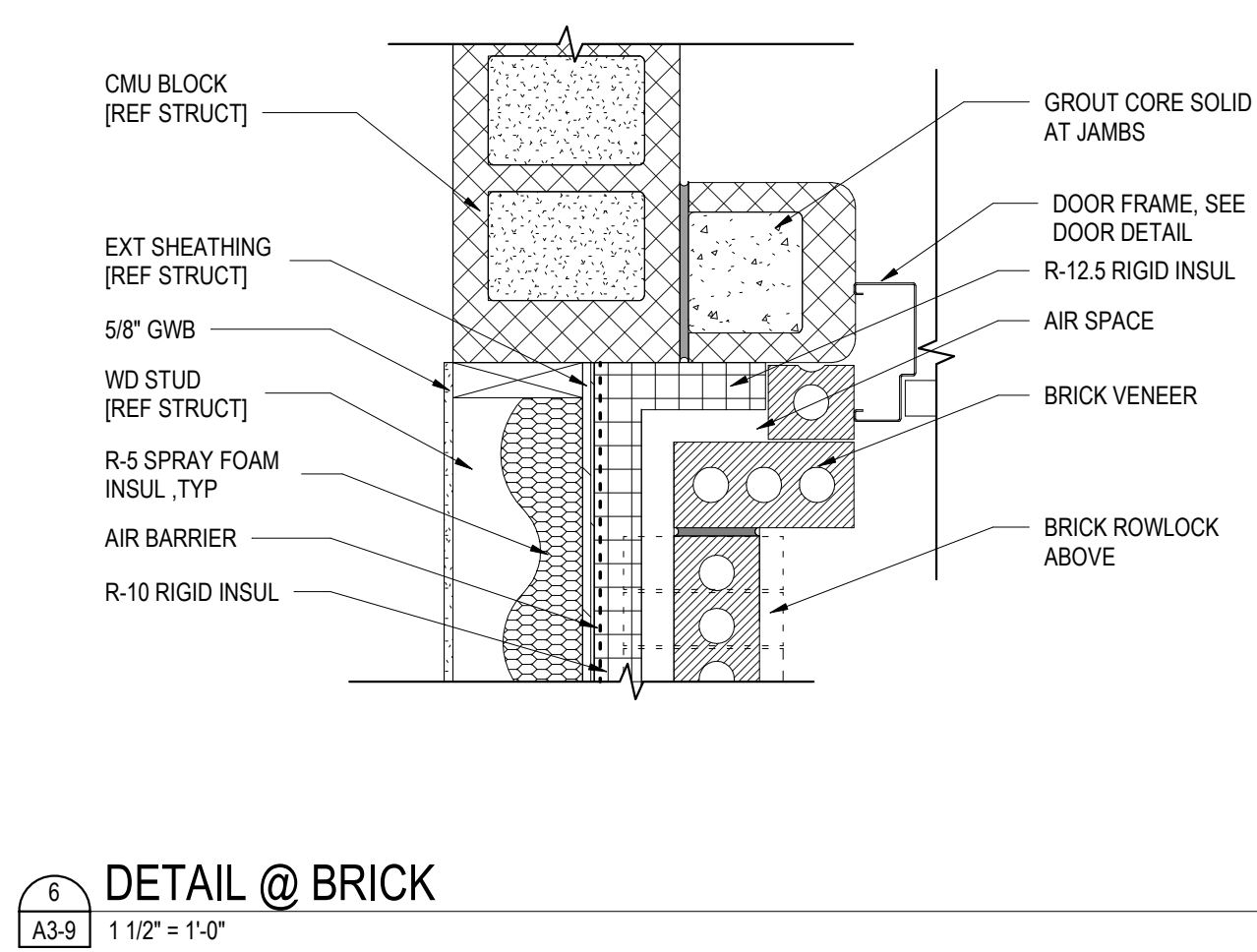
3
A3-9 3\"/>



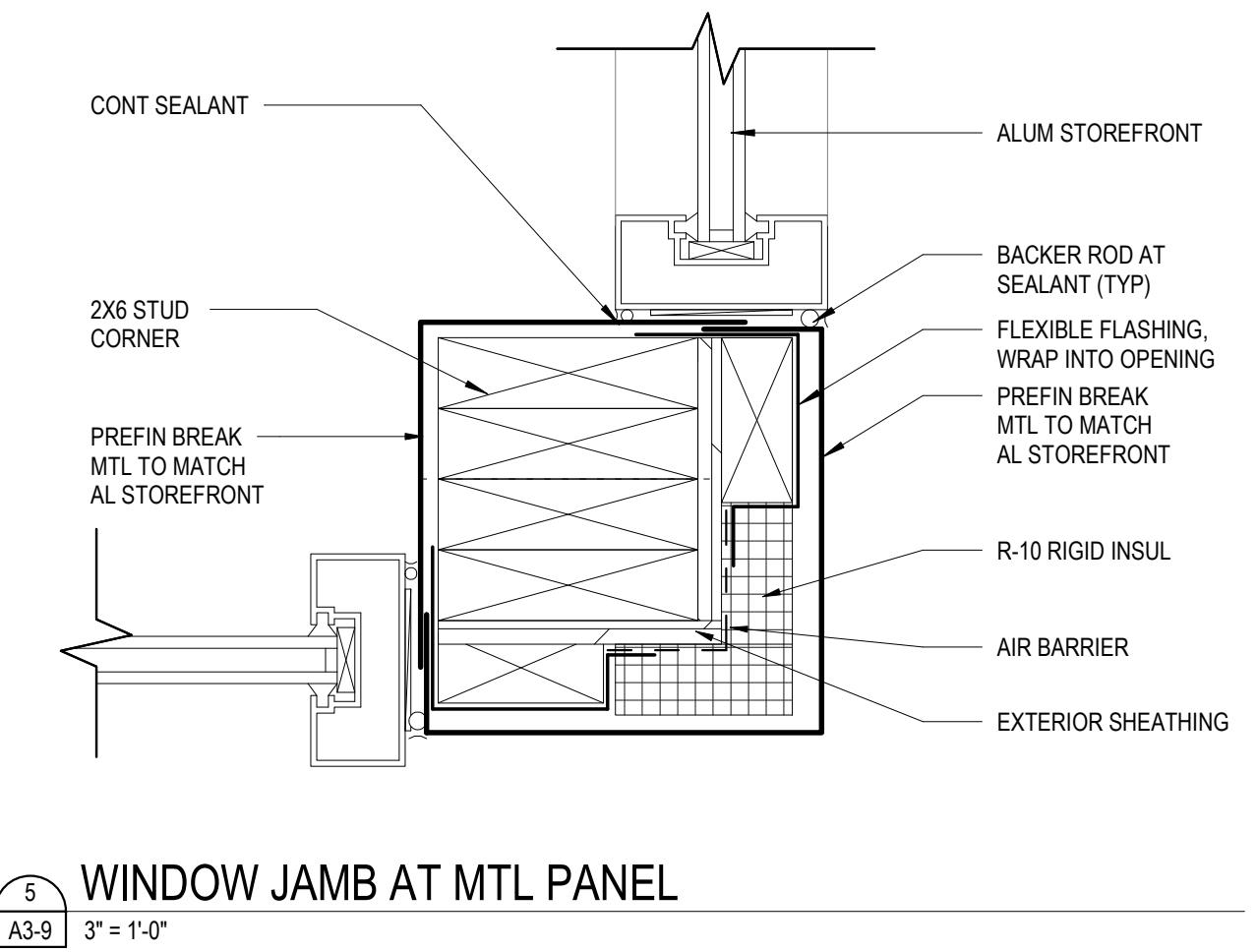
2
A3-9 3\"/>



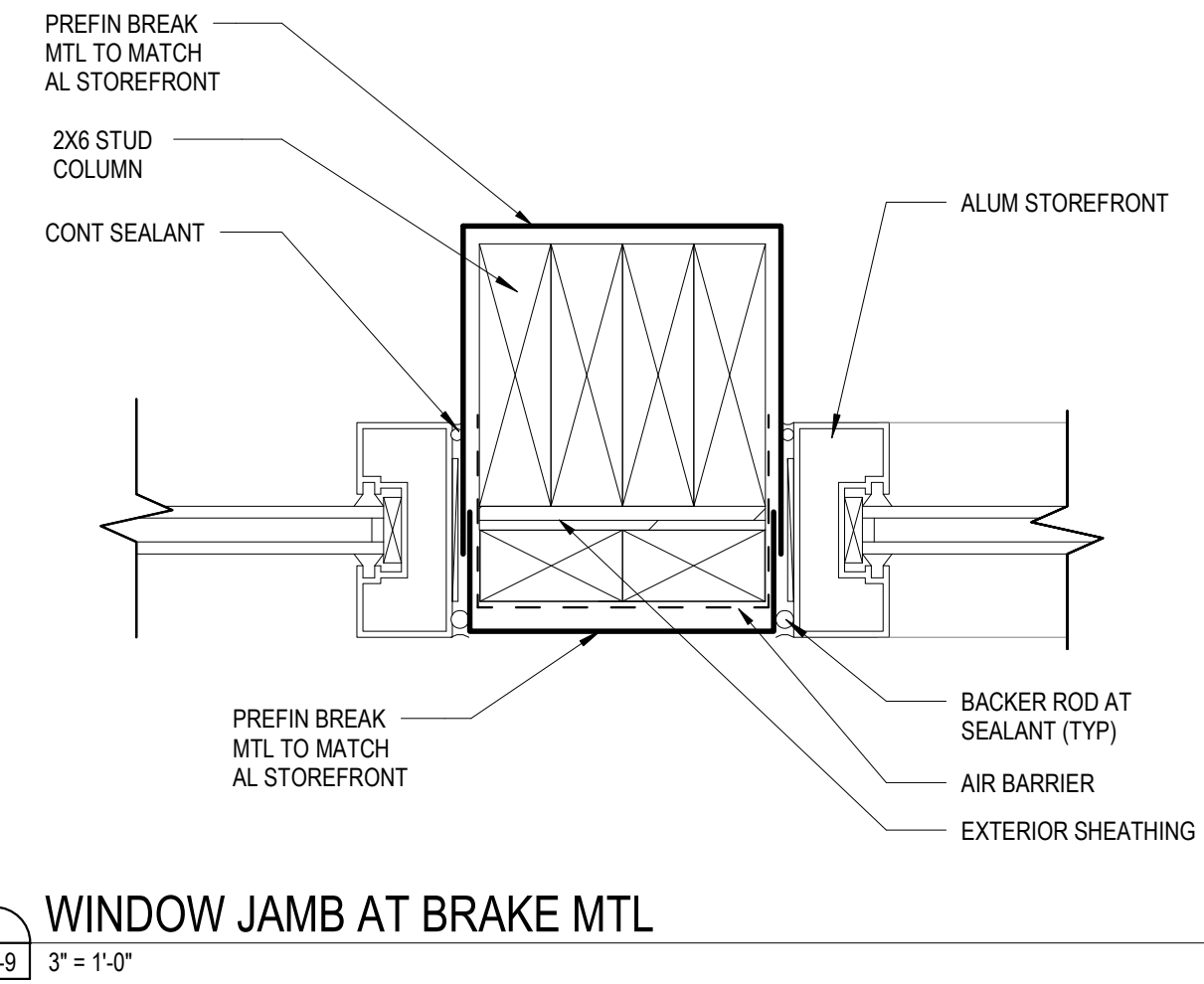
1
A3-9 3\"/>



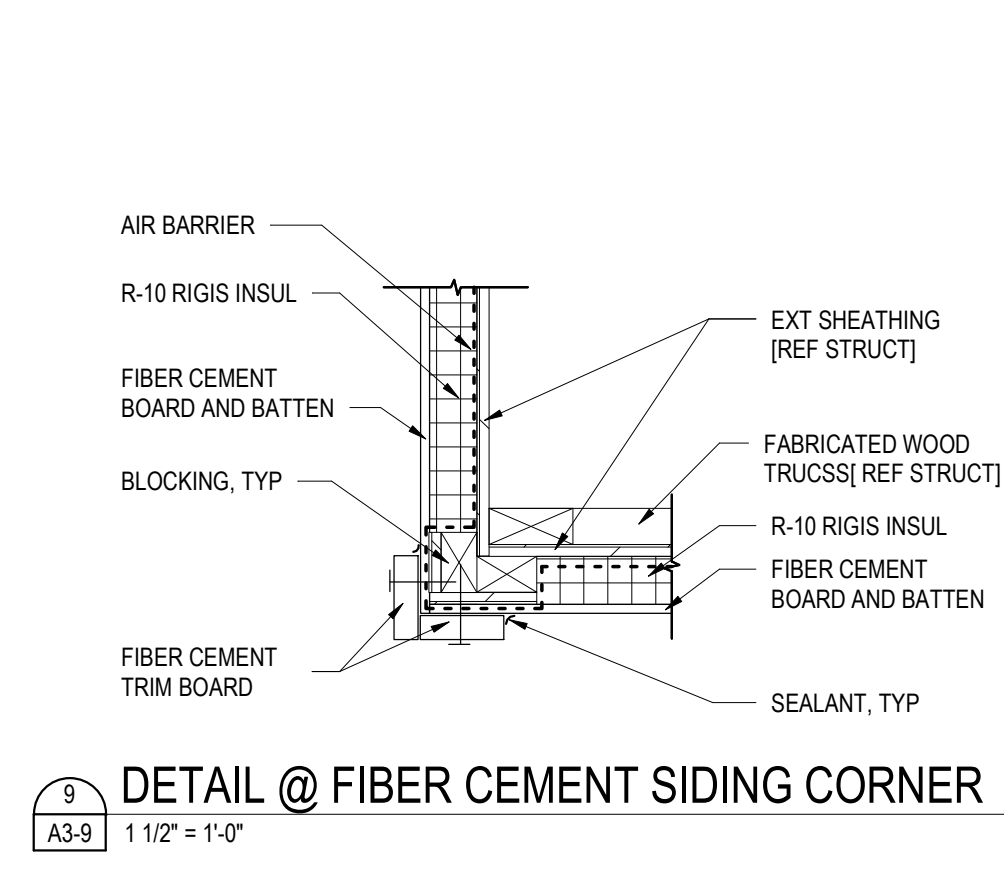
6
A3-9 1 1/2\"/>



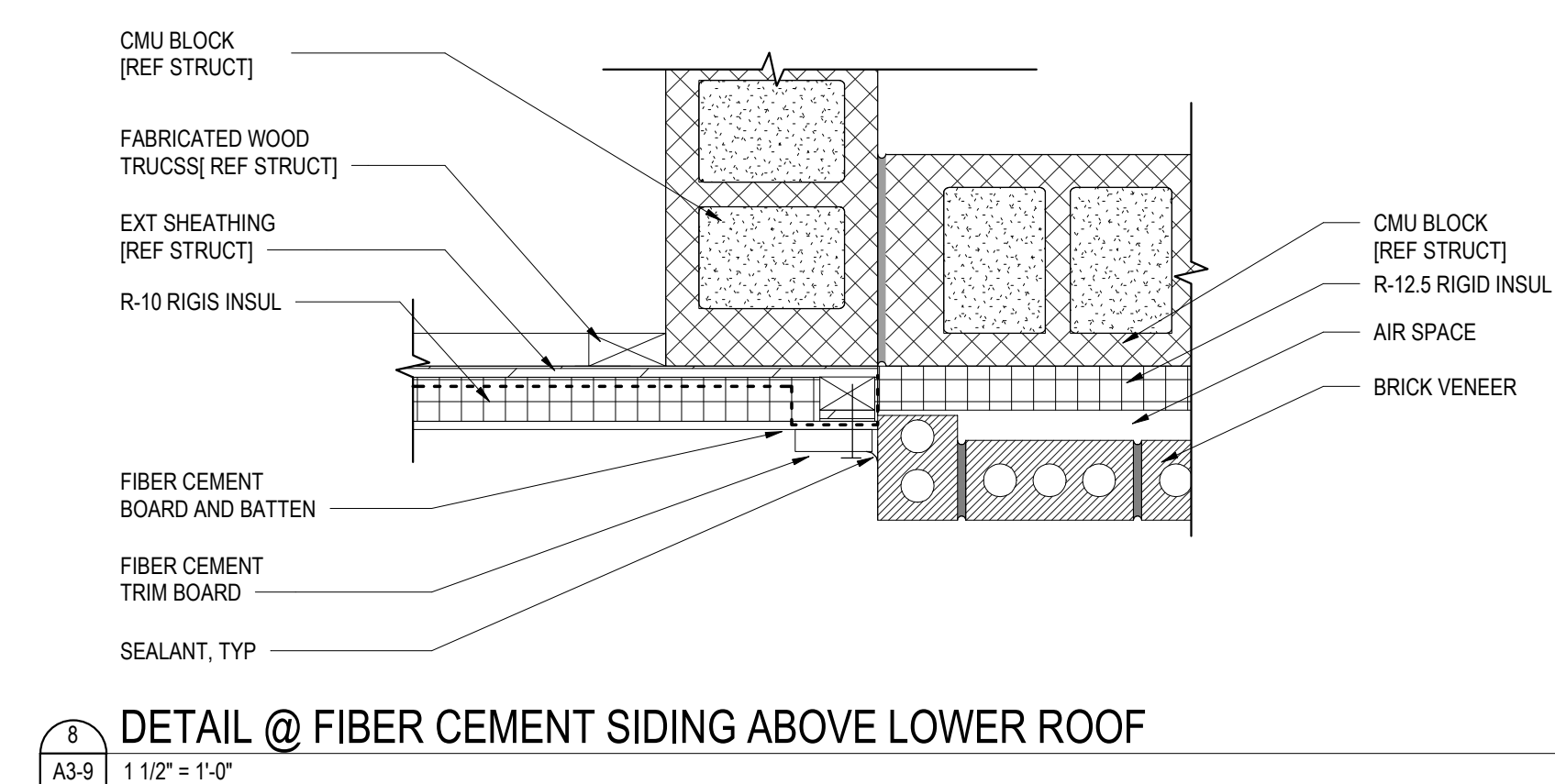
5
A3-9 3\"/>



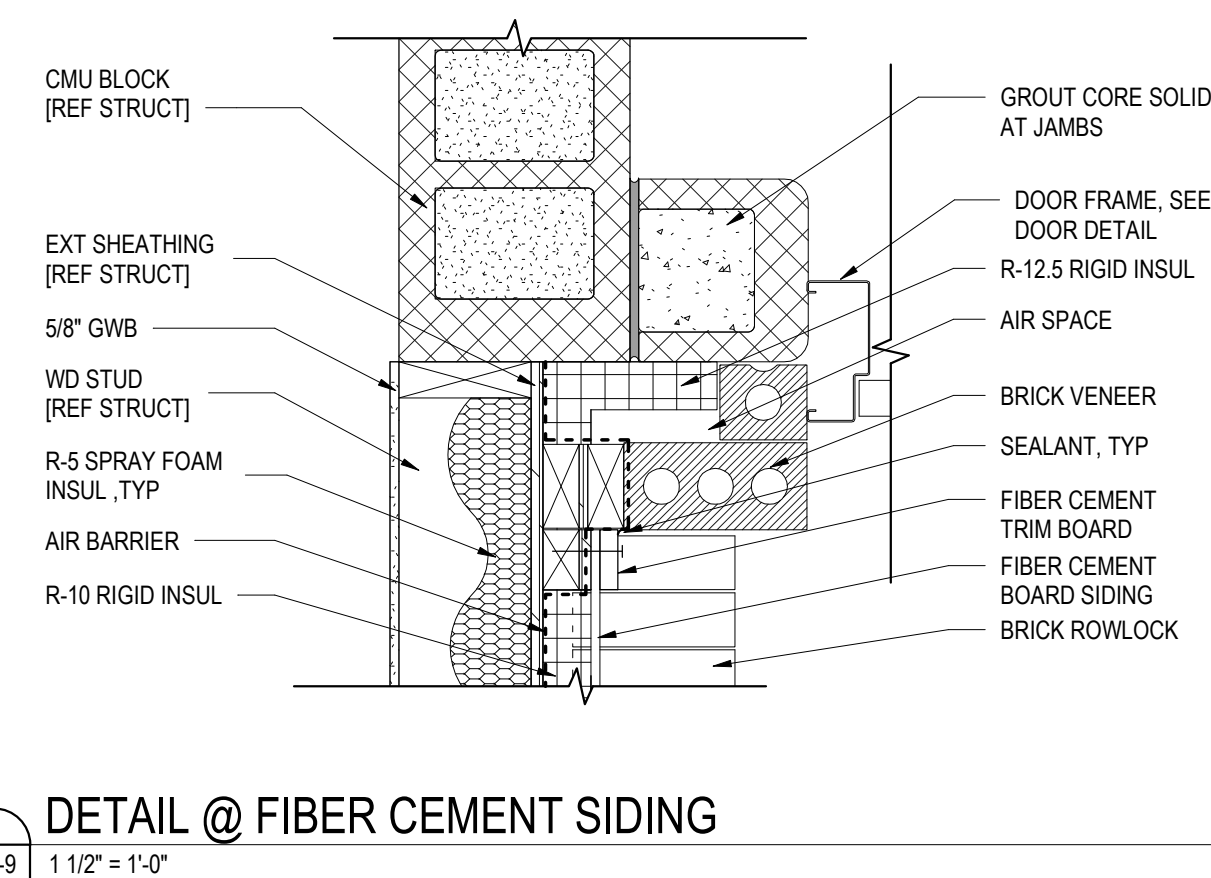
4
A3-9 3\"/>



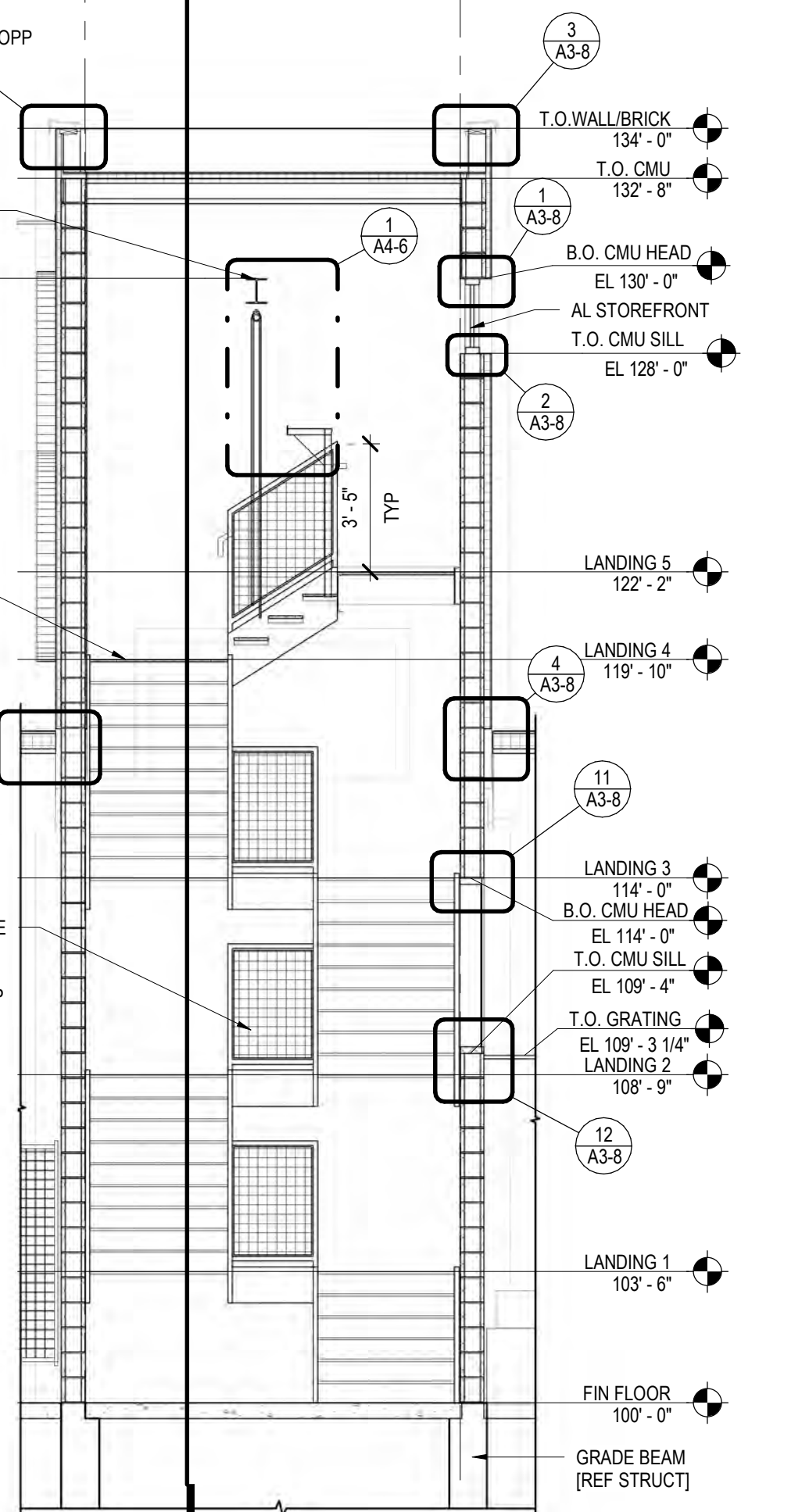
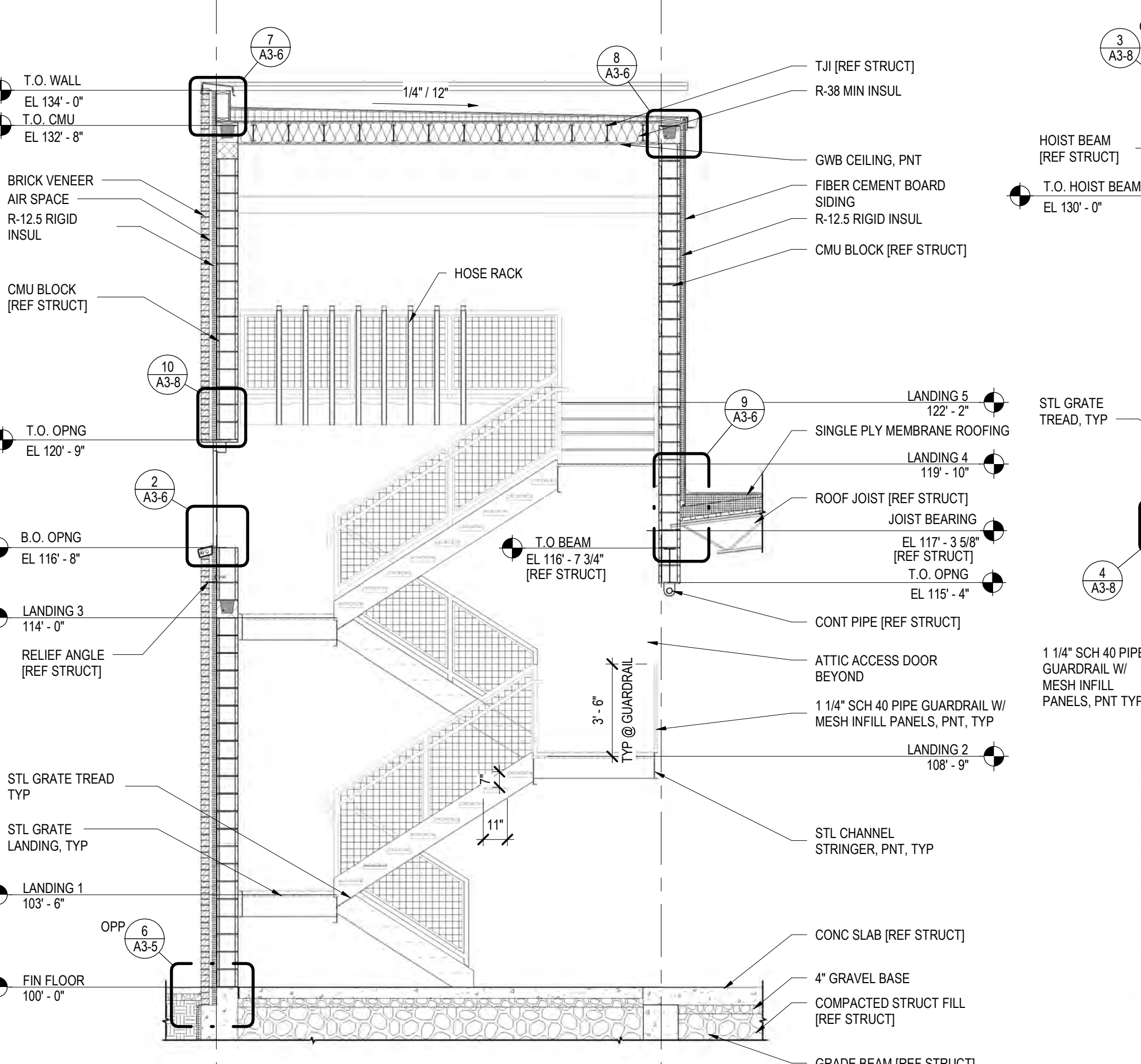
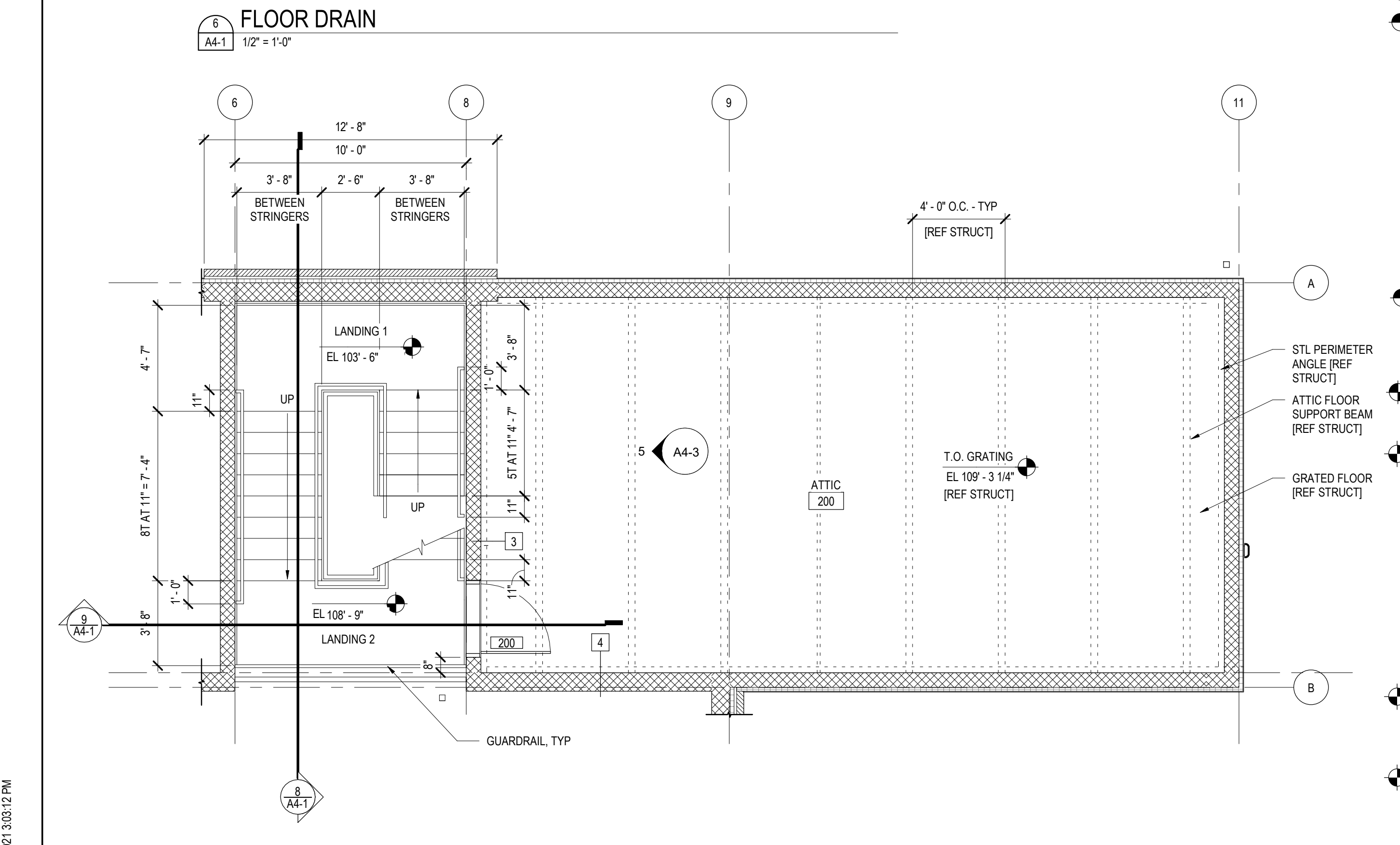
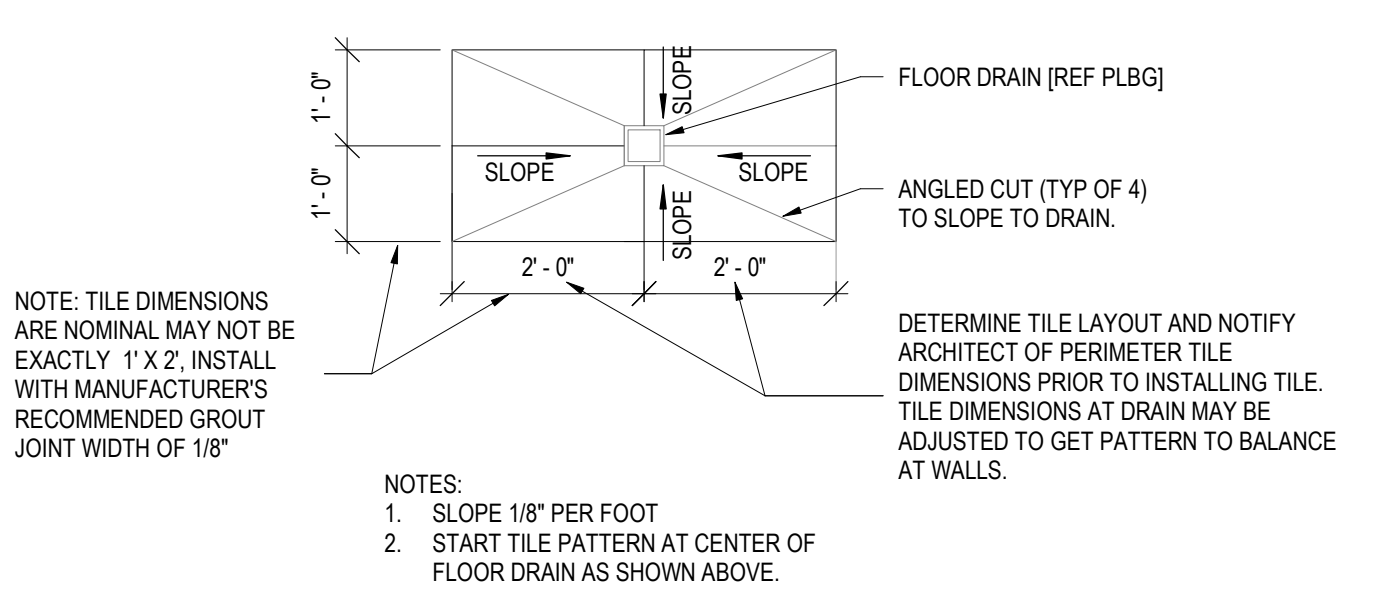
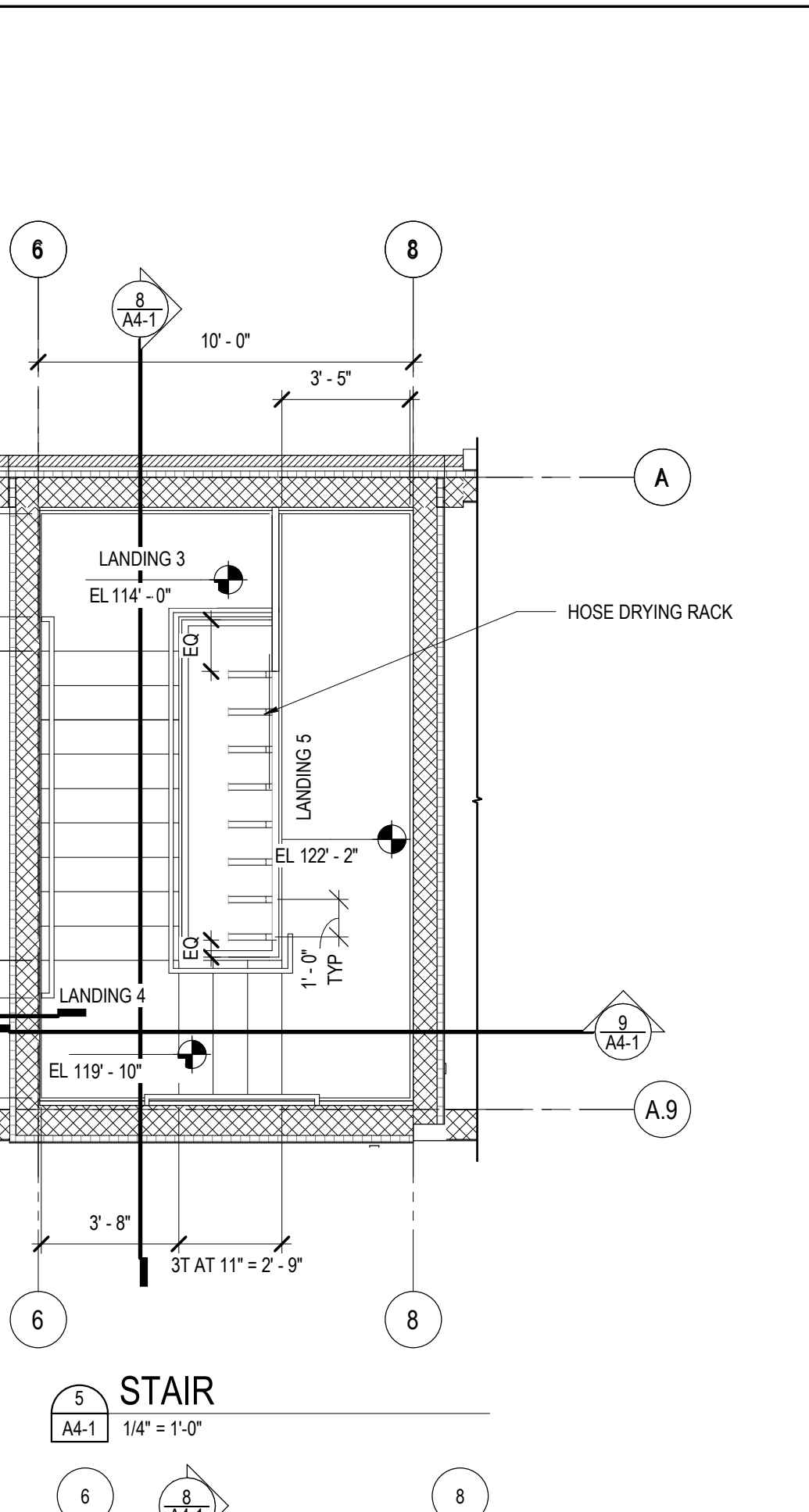
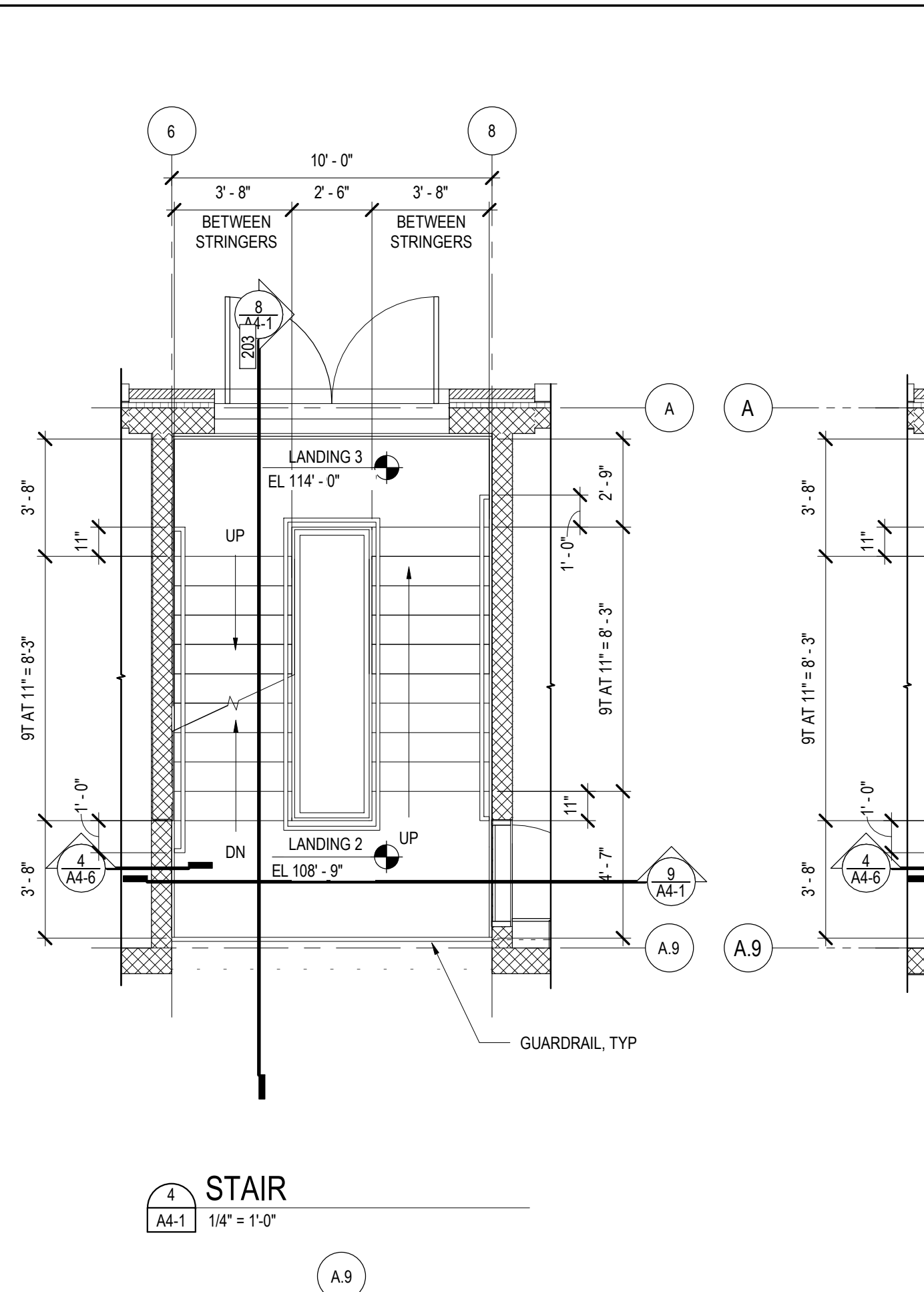
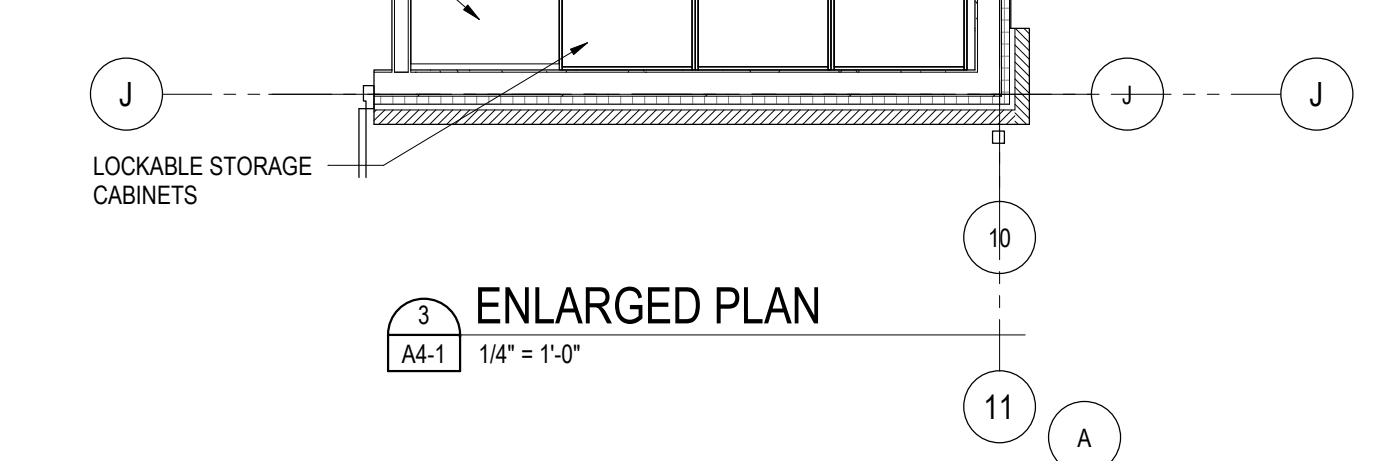
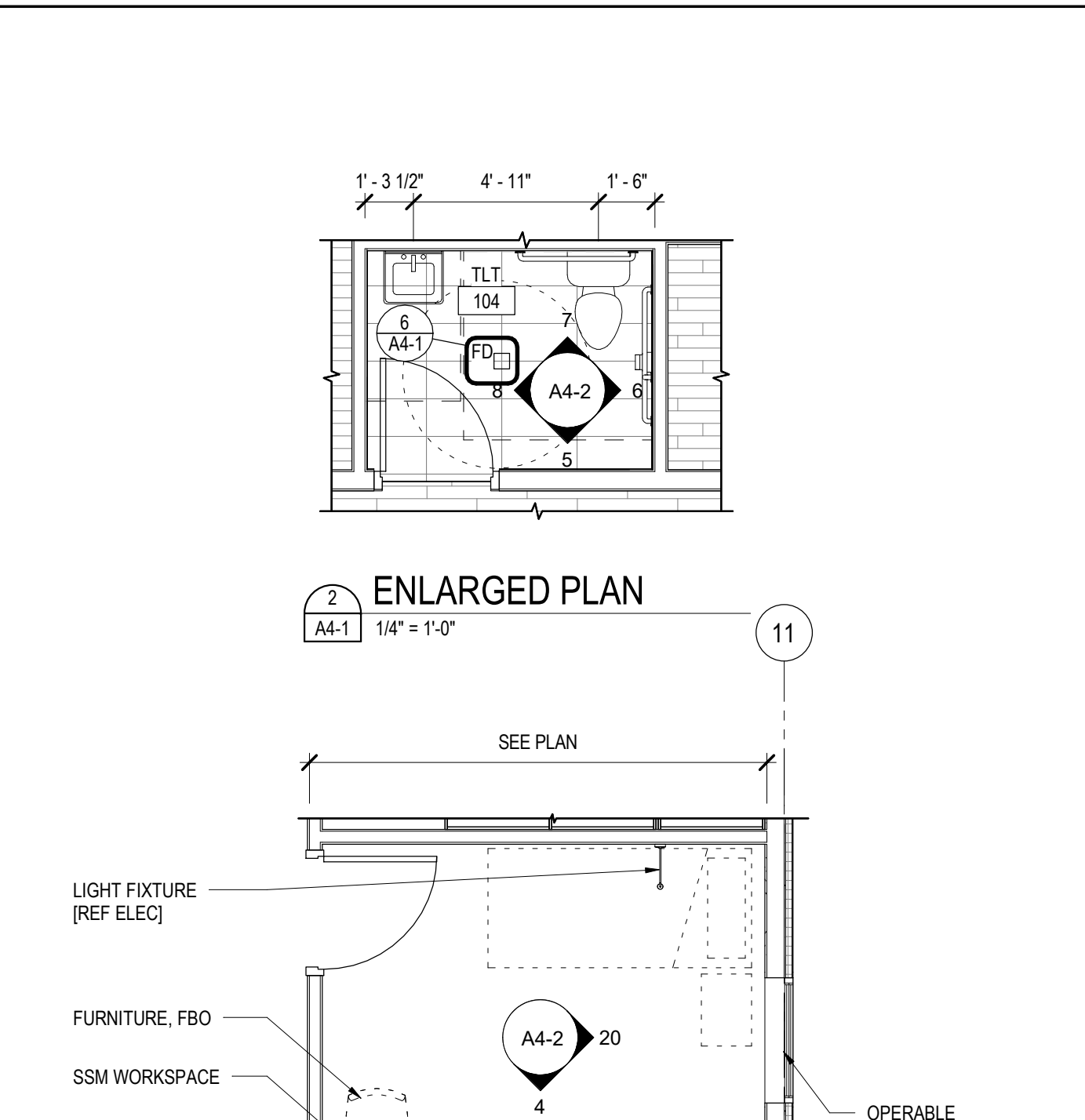
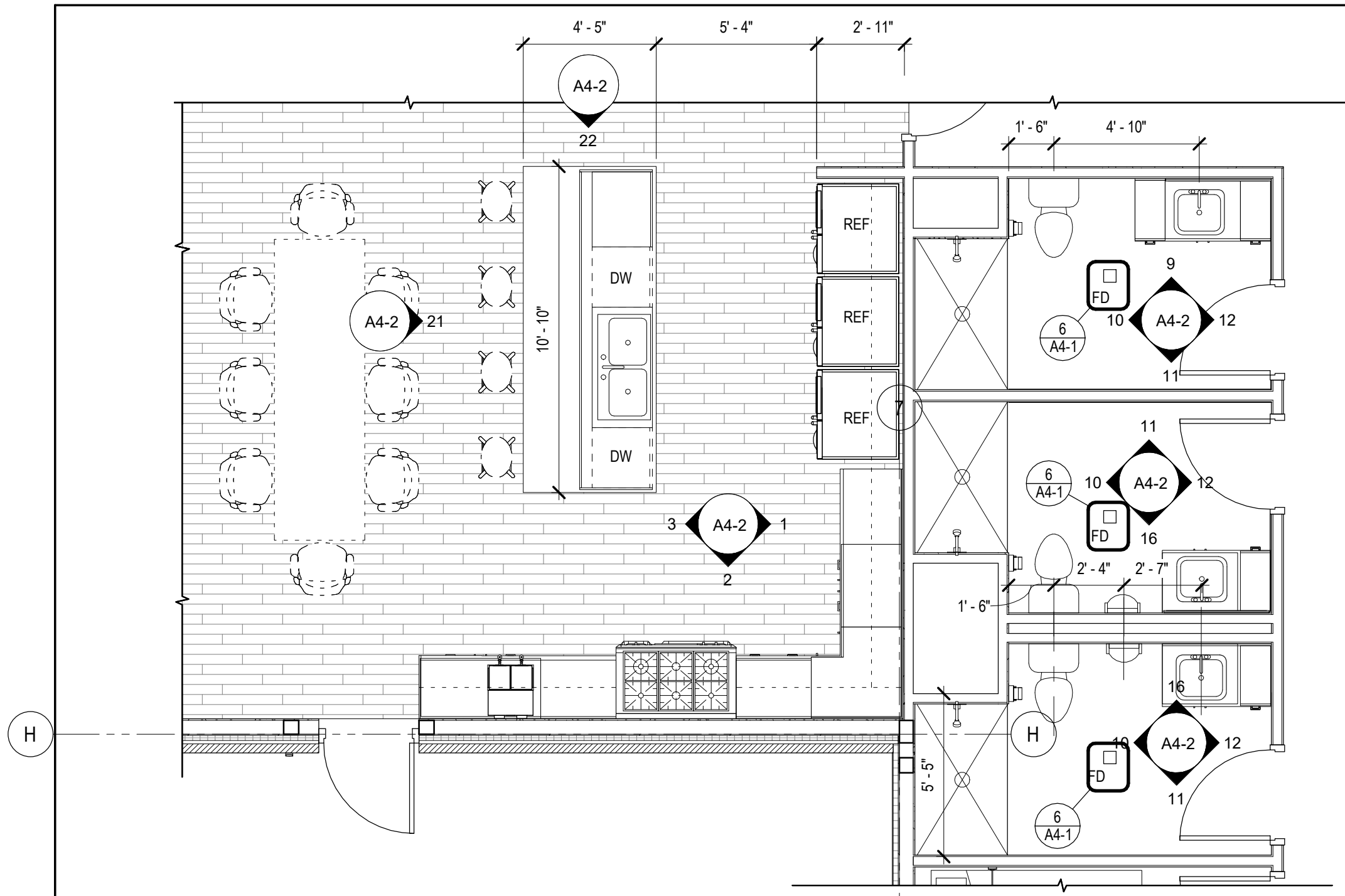
9
A3-9 1 1/2\"/>

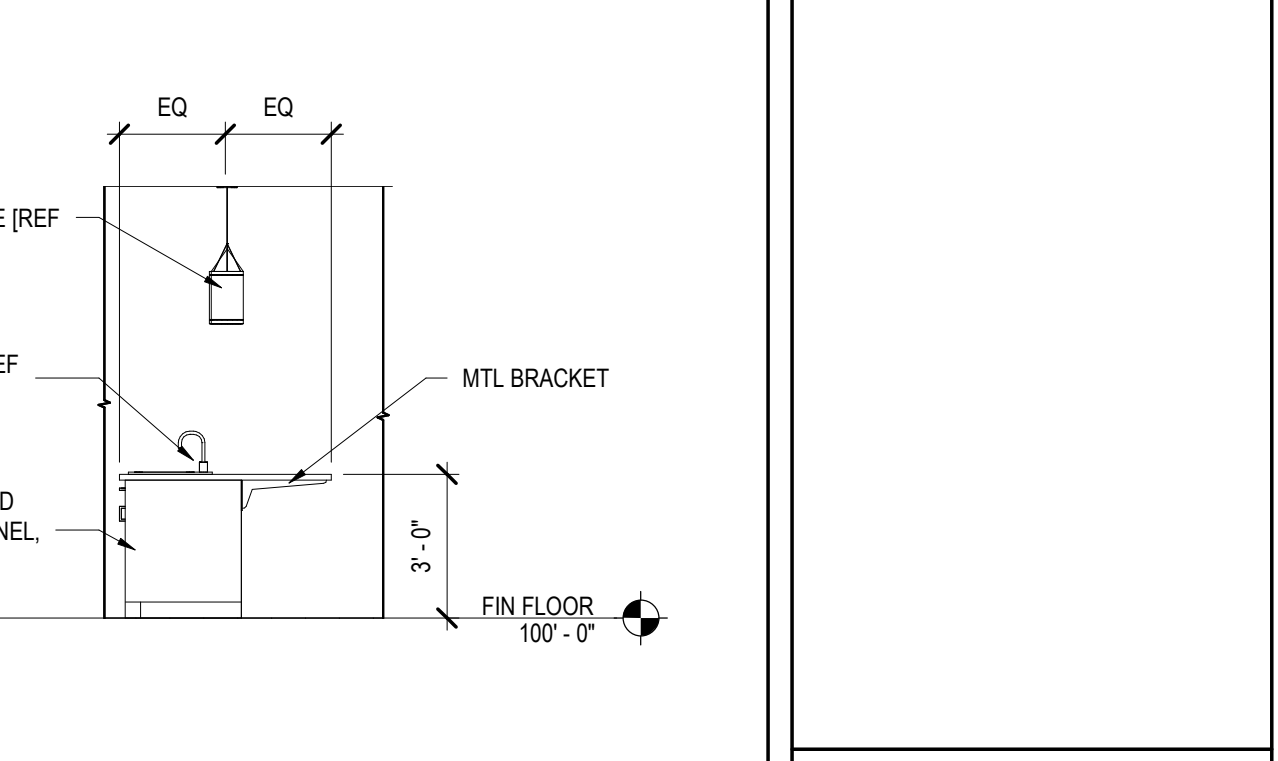
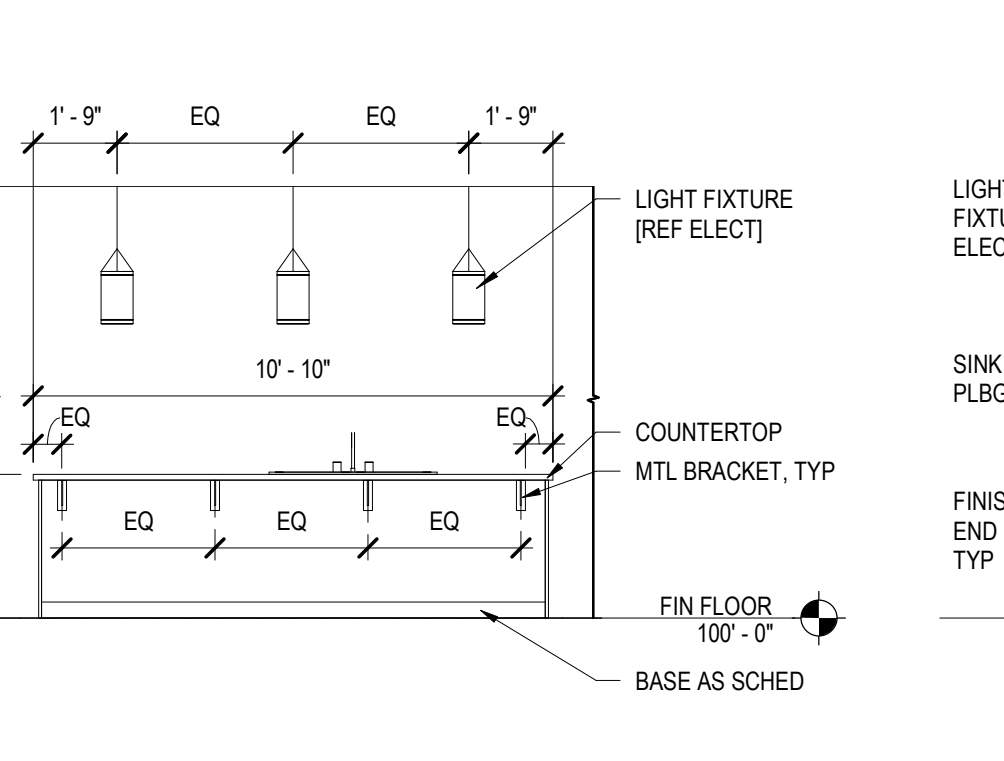
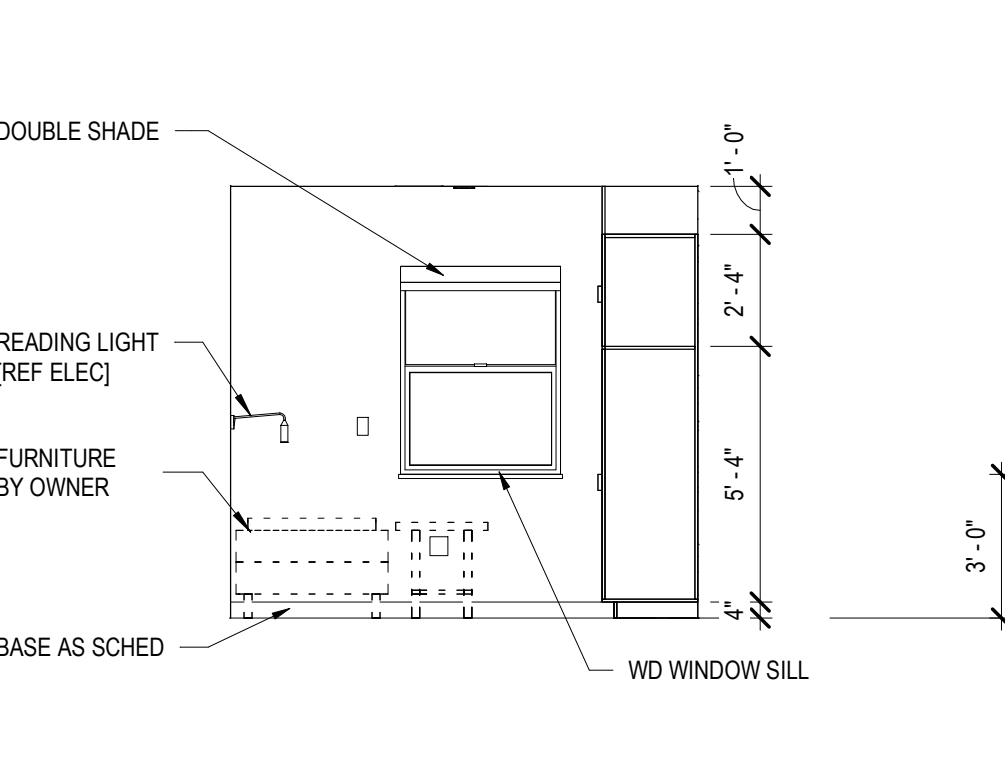
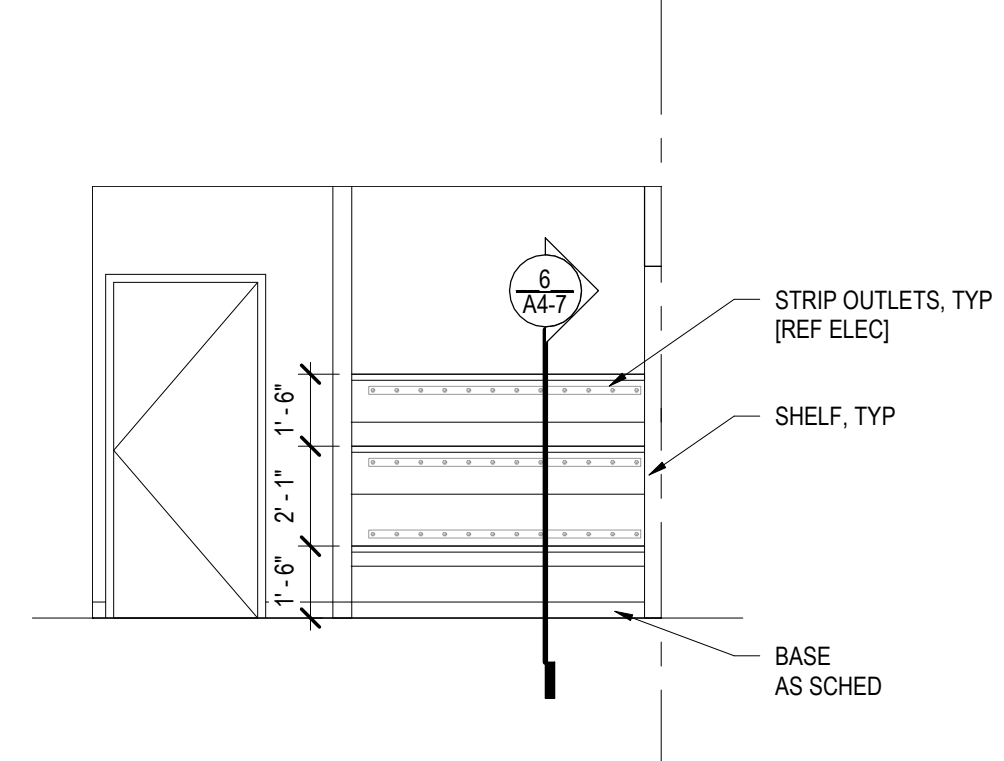
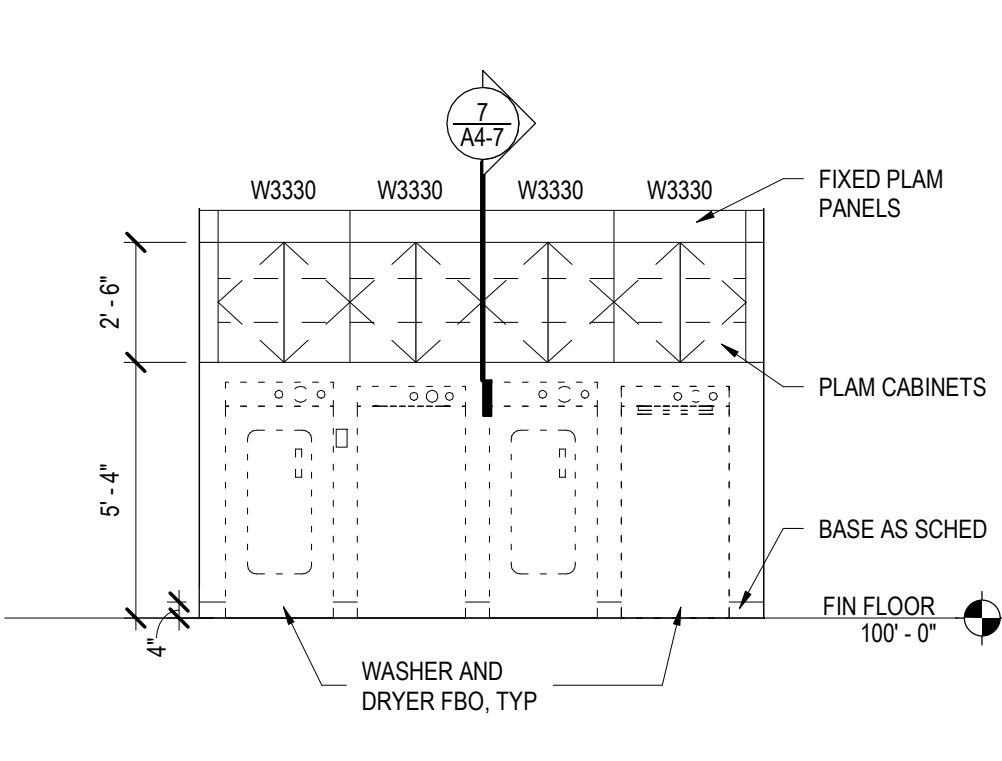
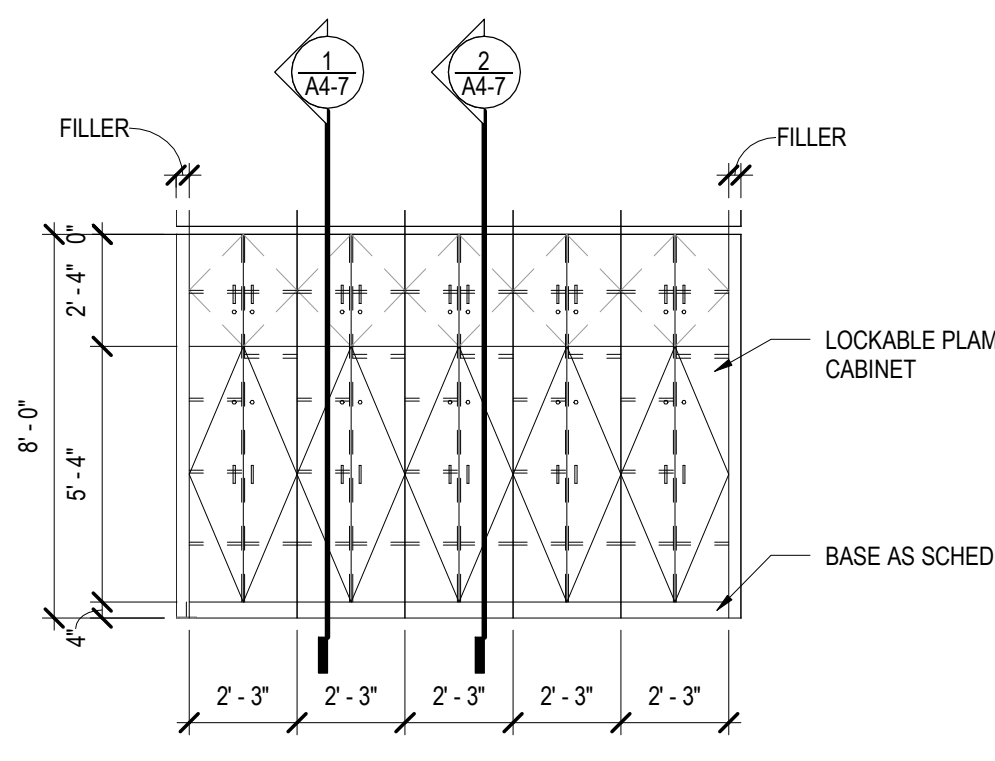
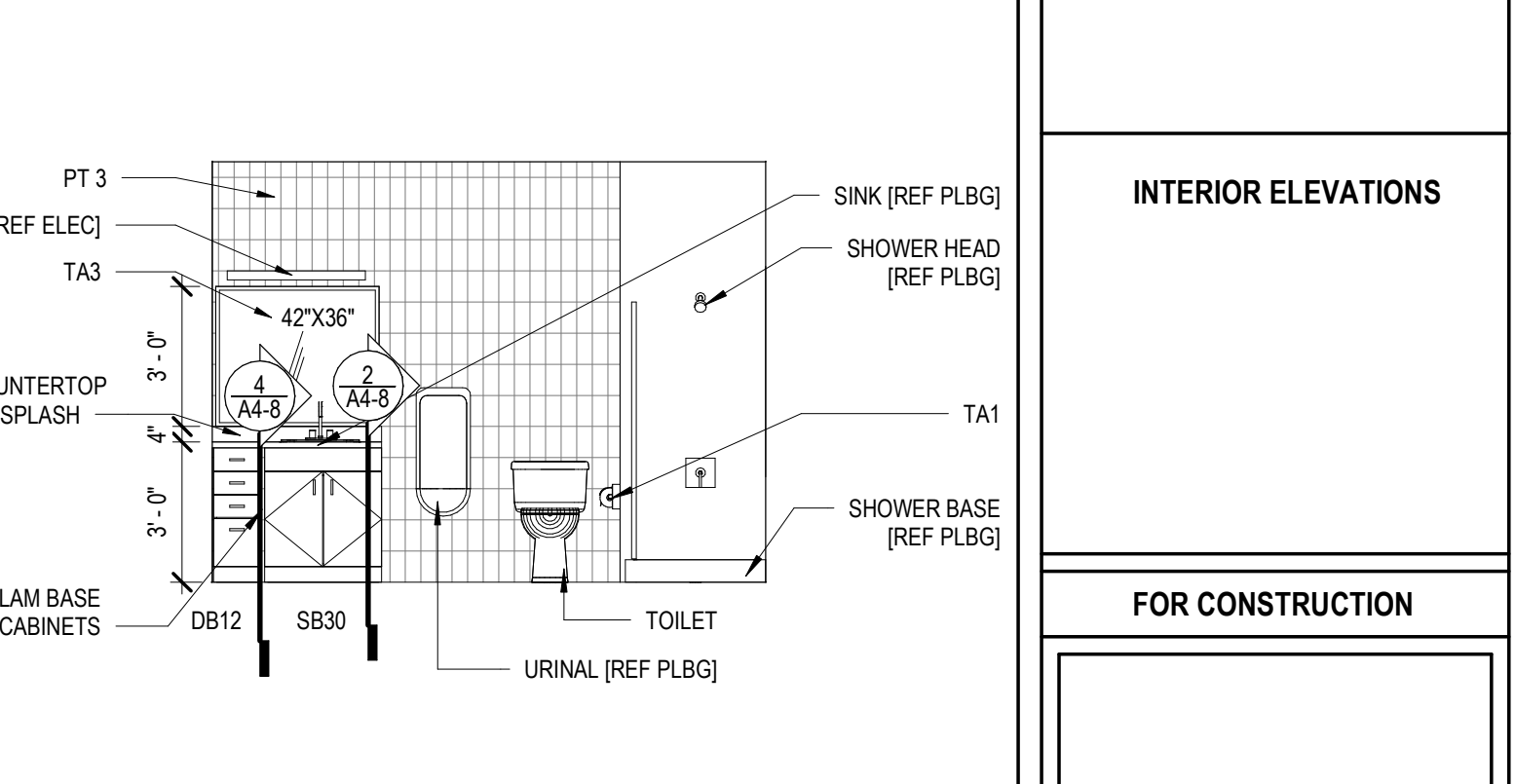
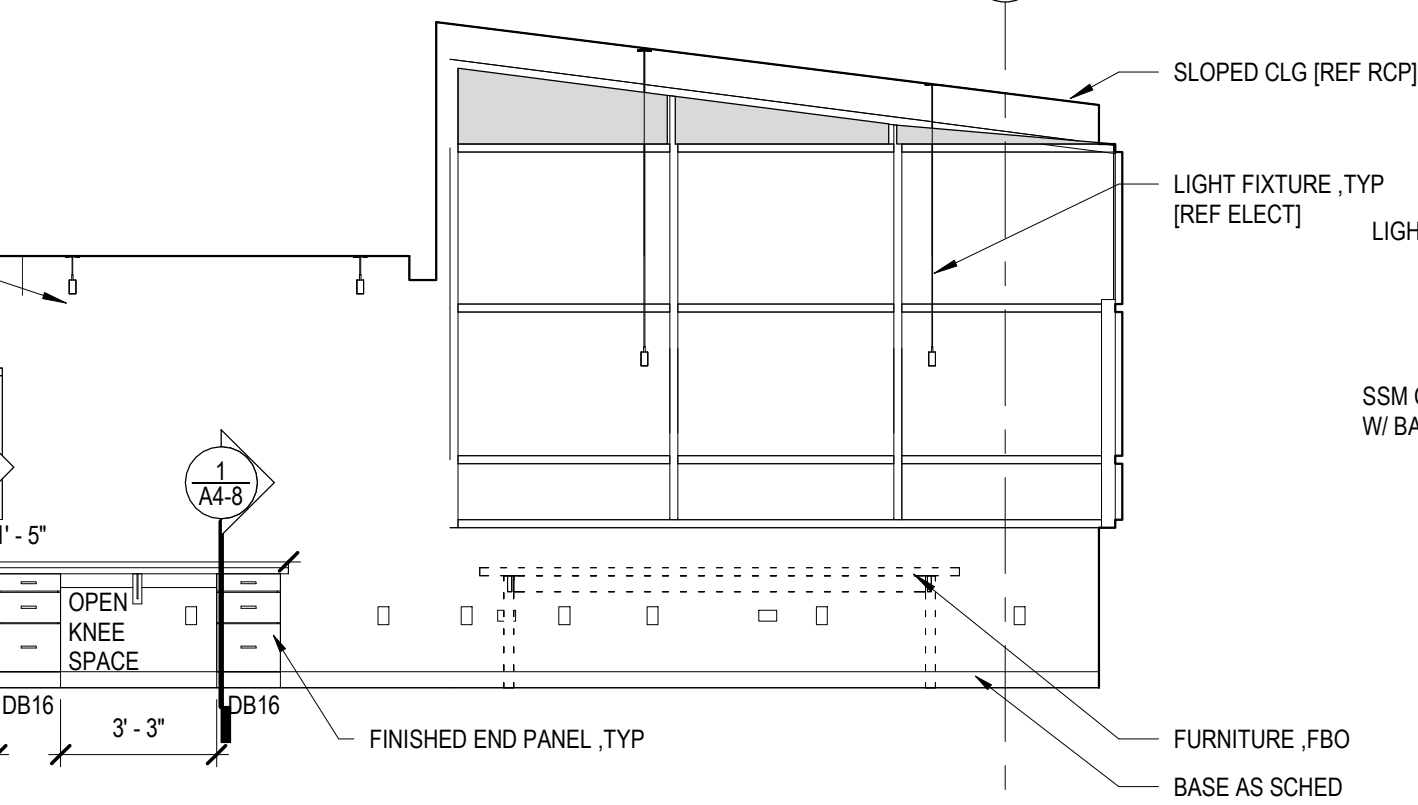
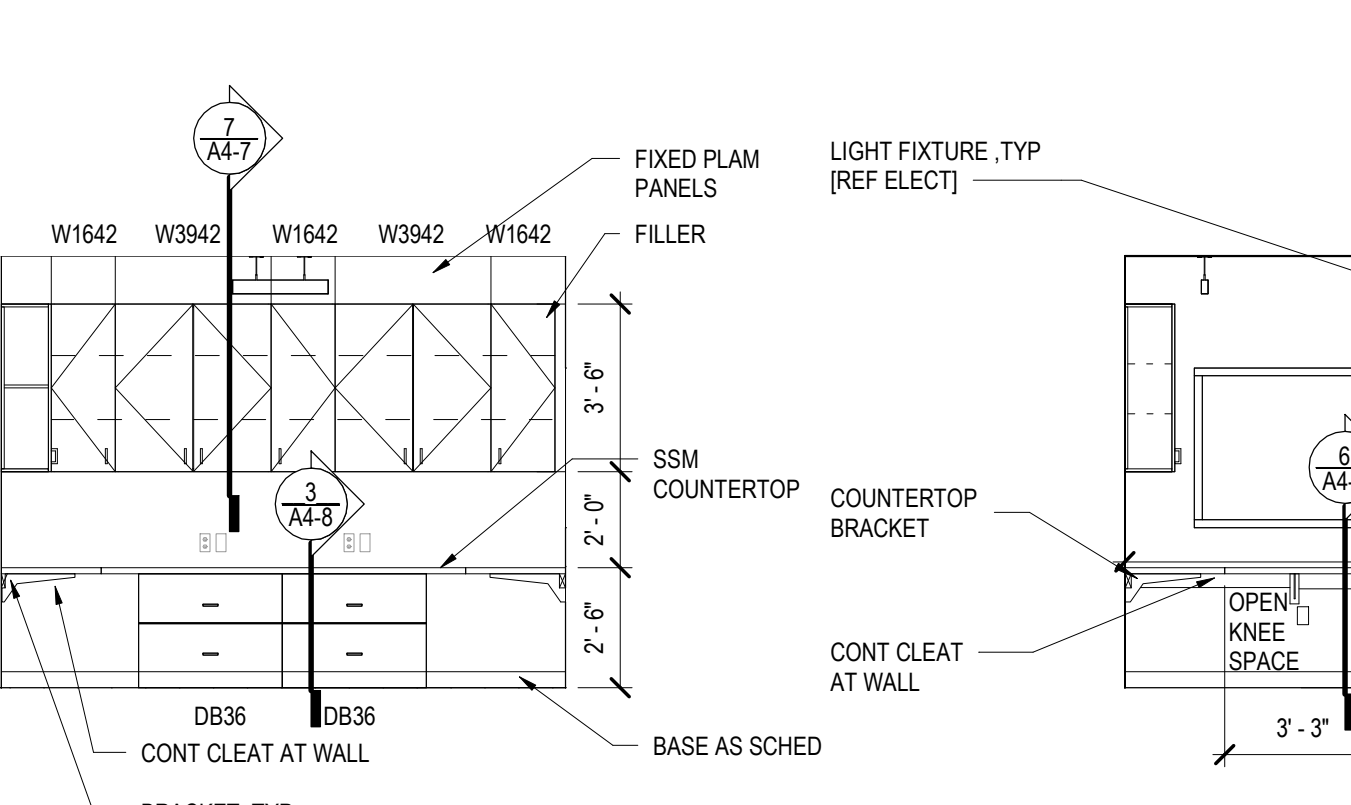
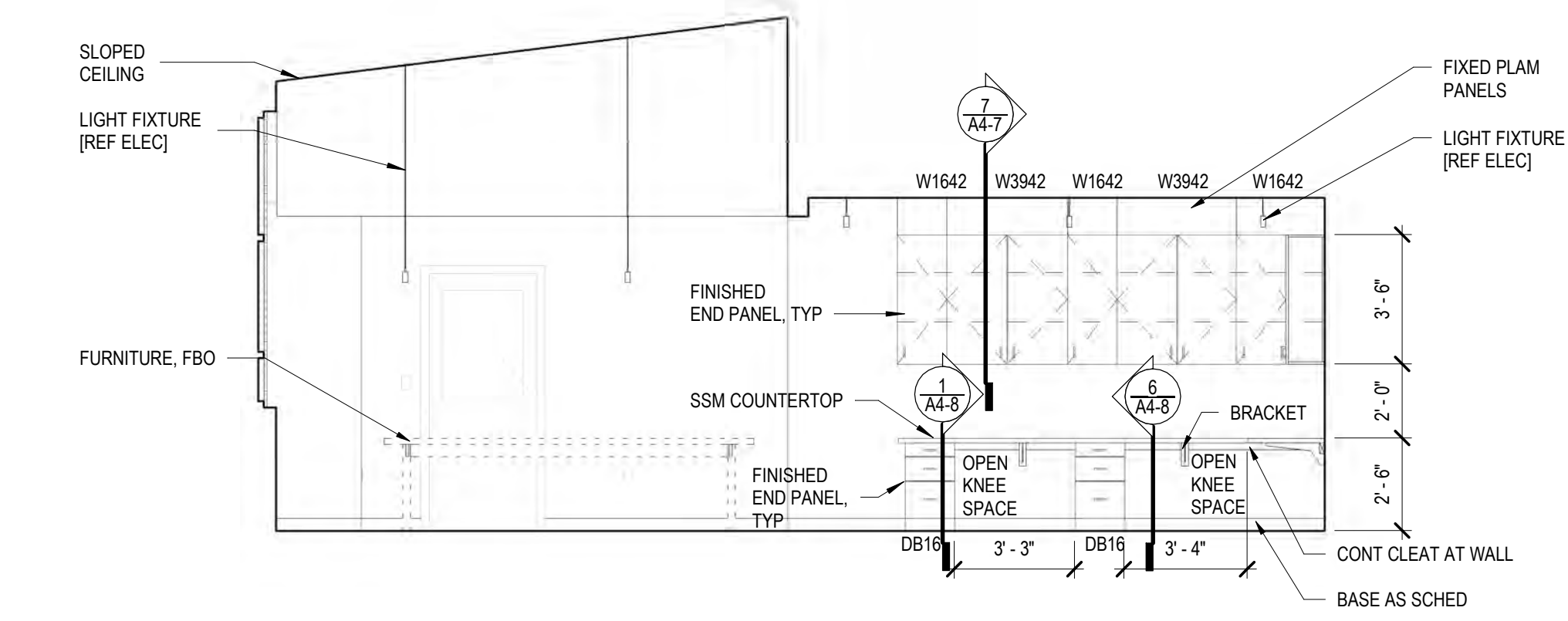
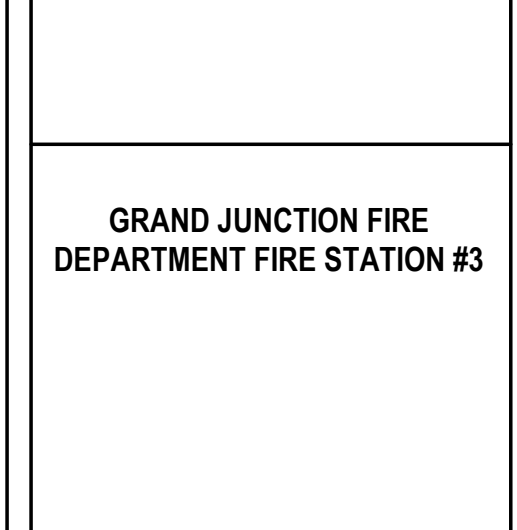
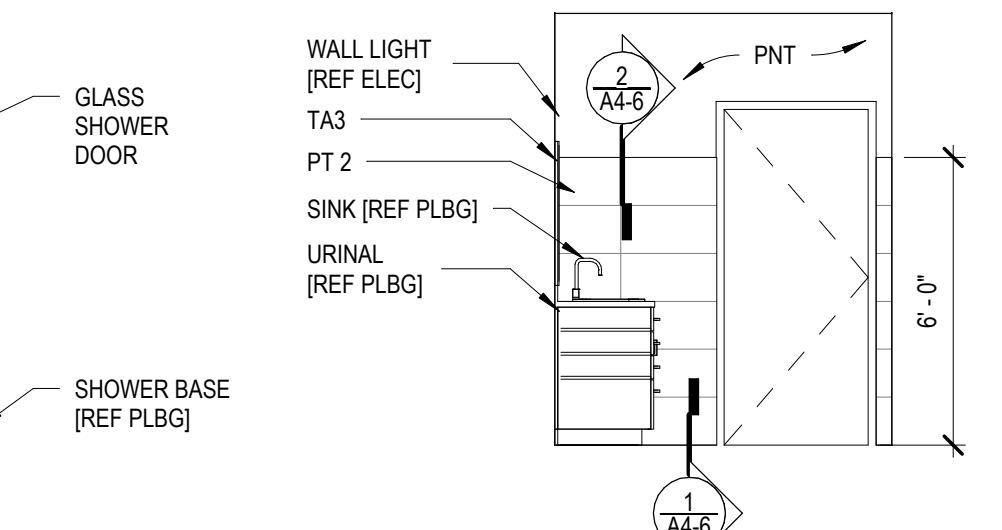
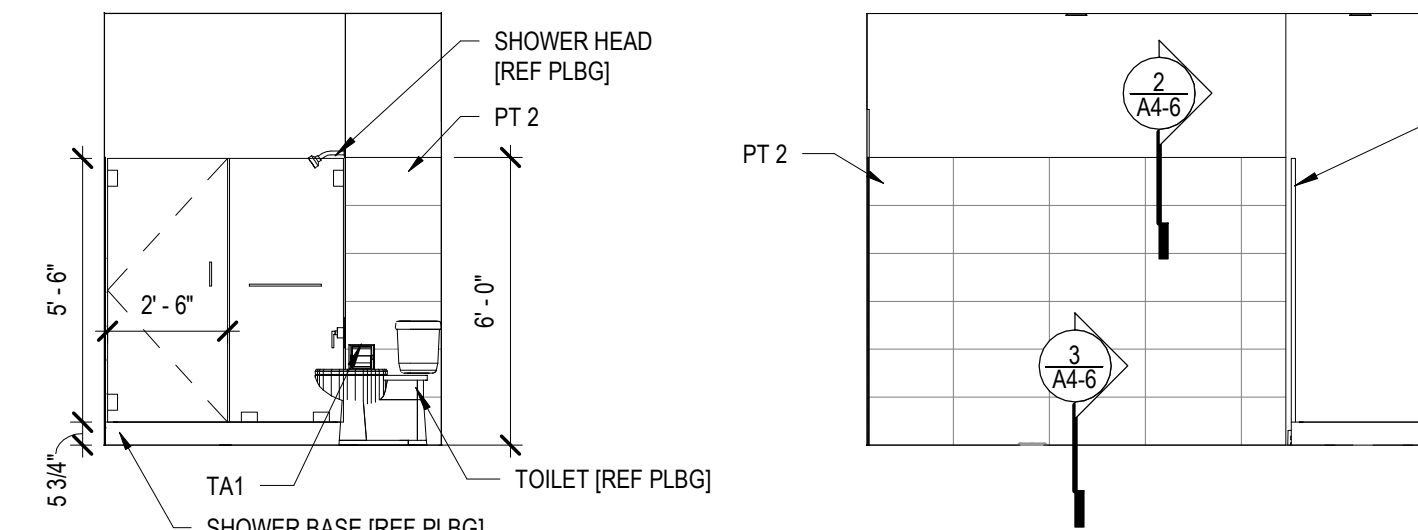
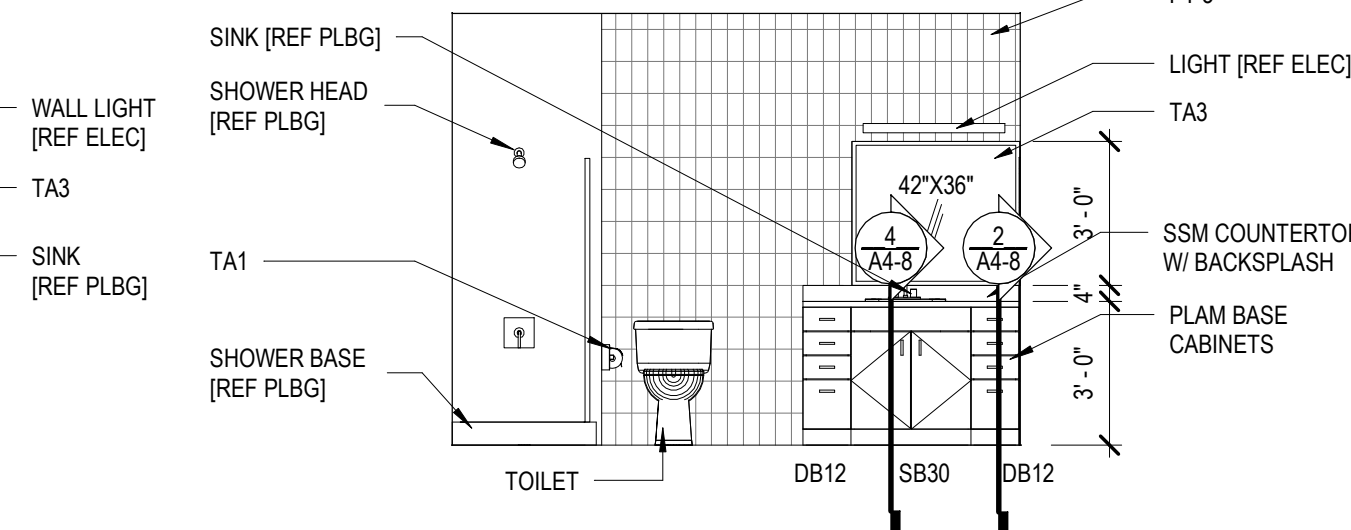
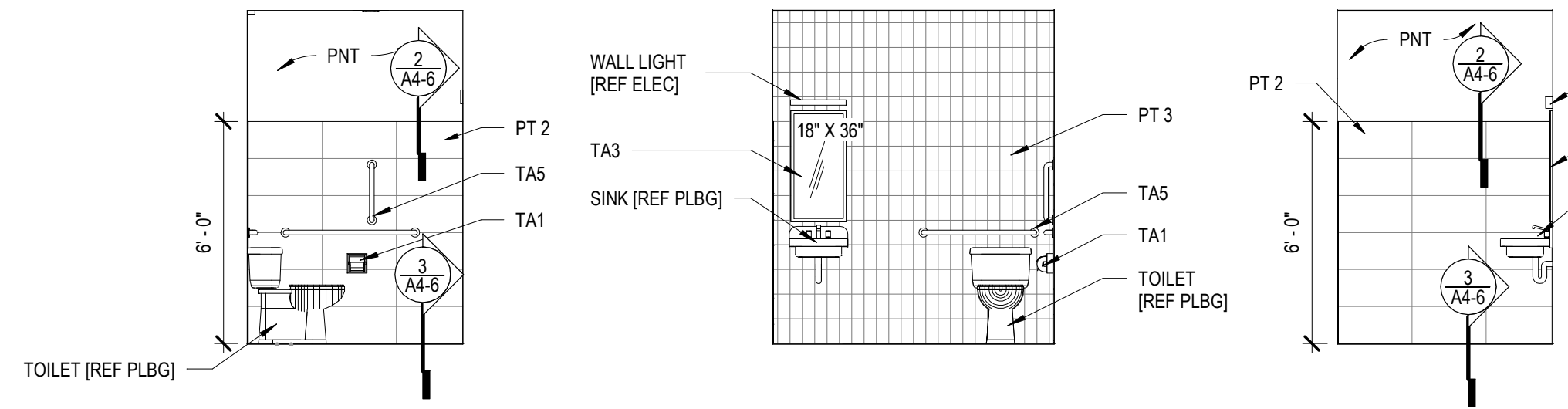
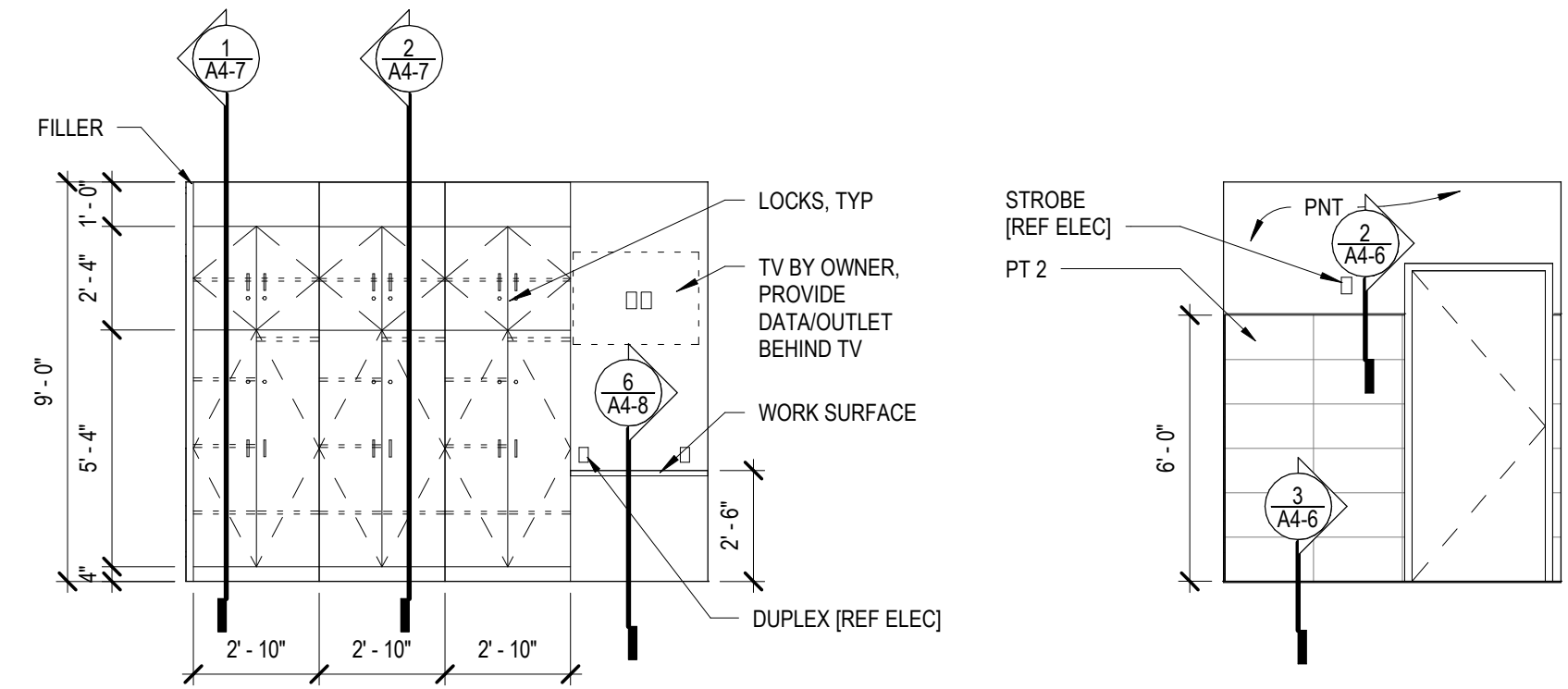
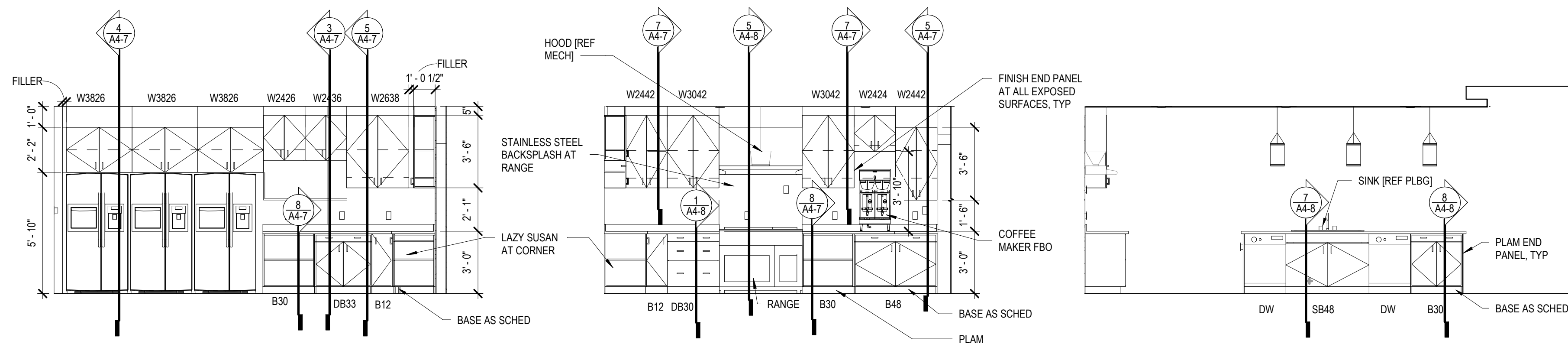


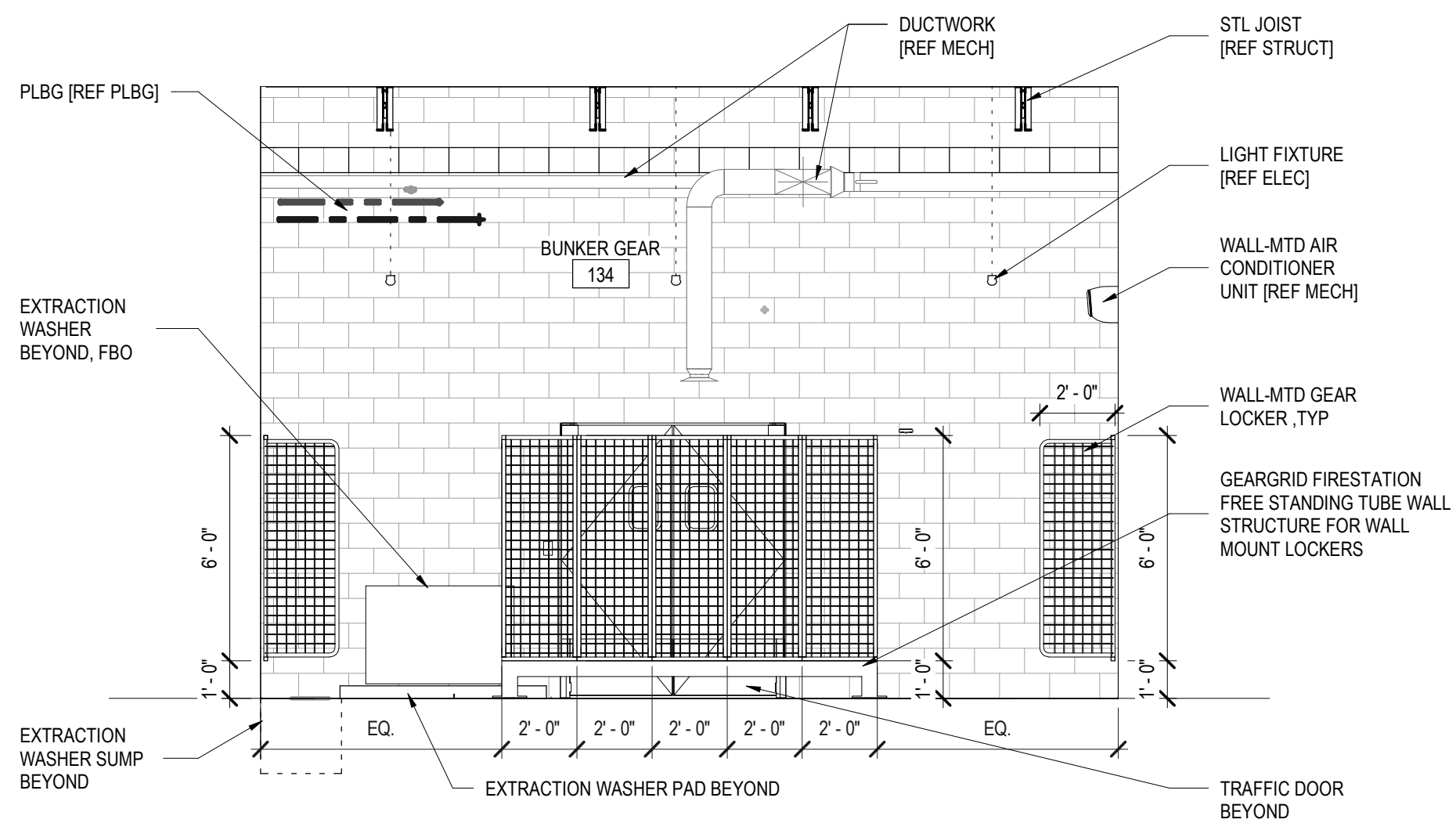
8
A3-9 1 1/2\"/>



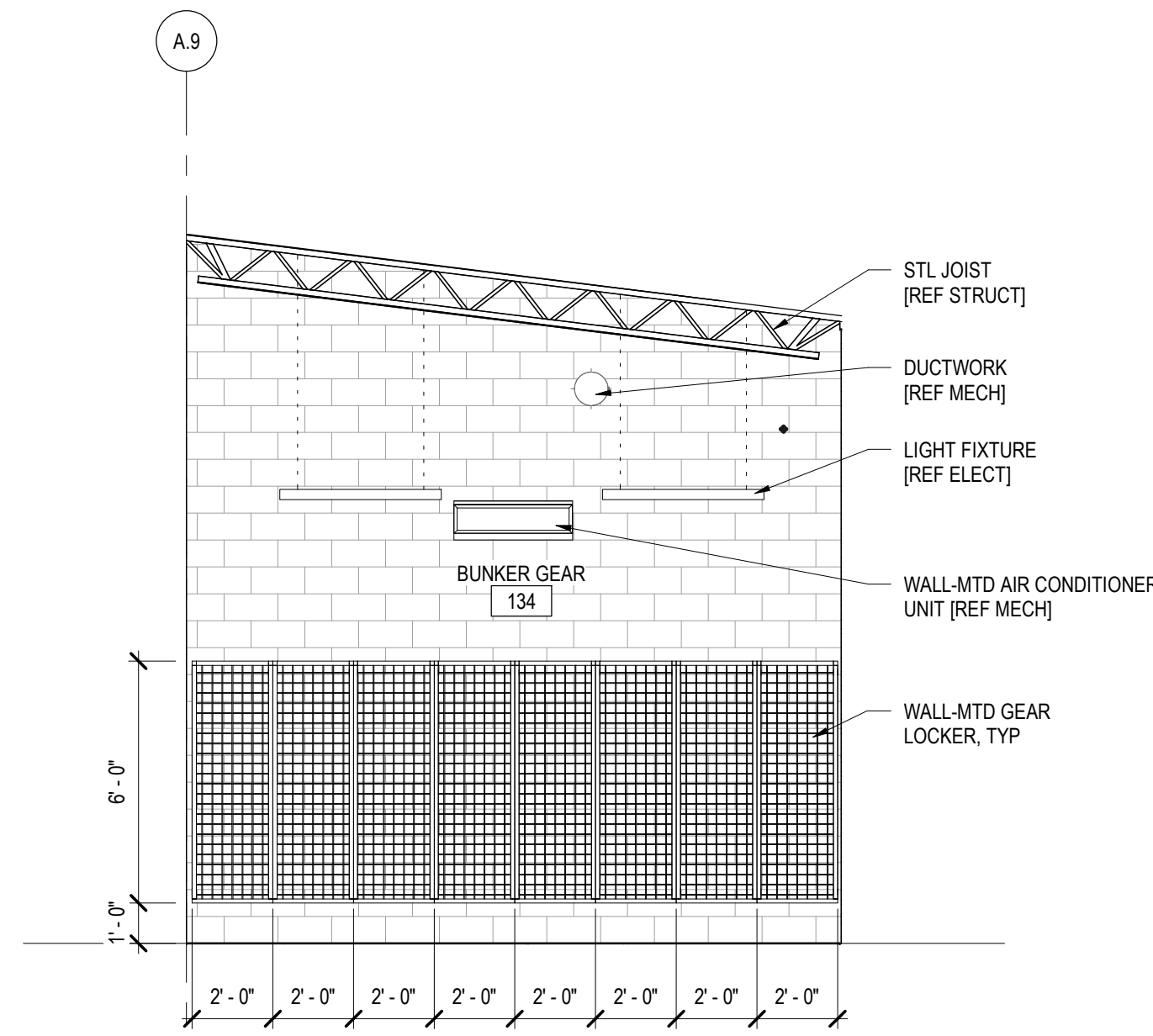
7
A3-9 1 1/2\"/>



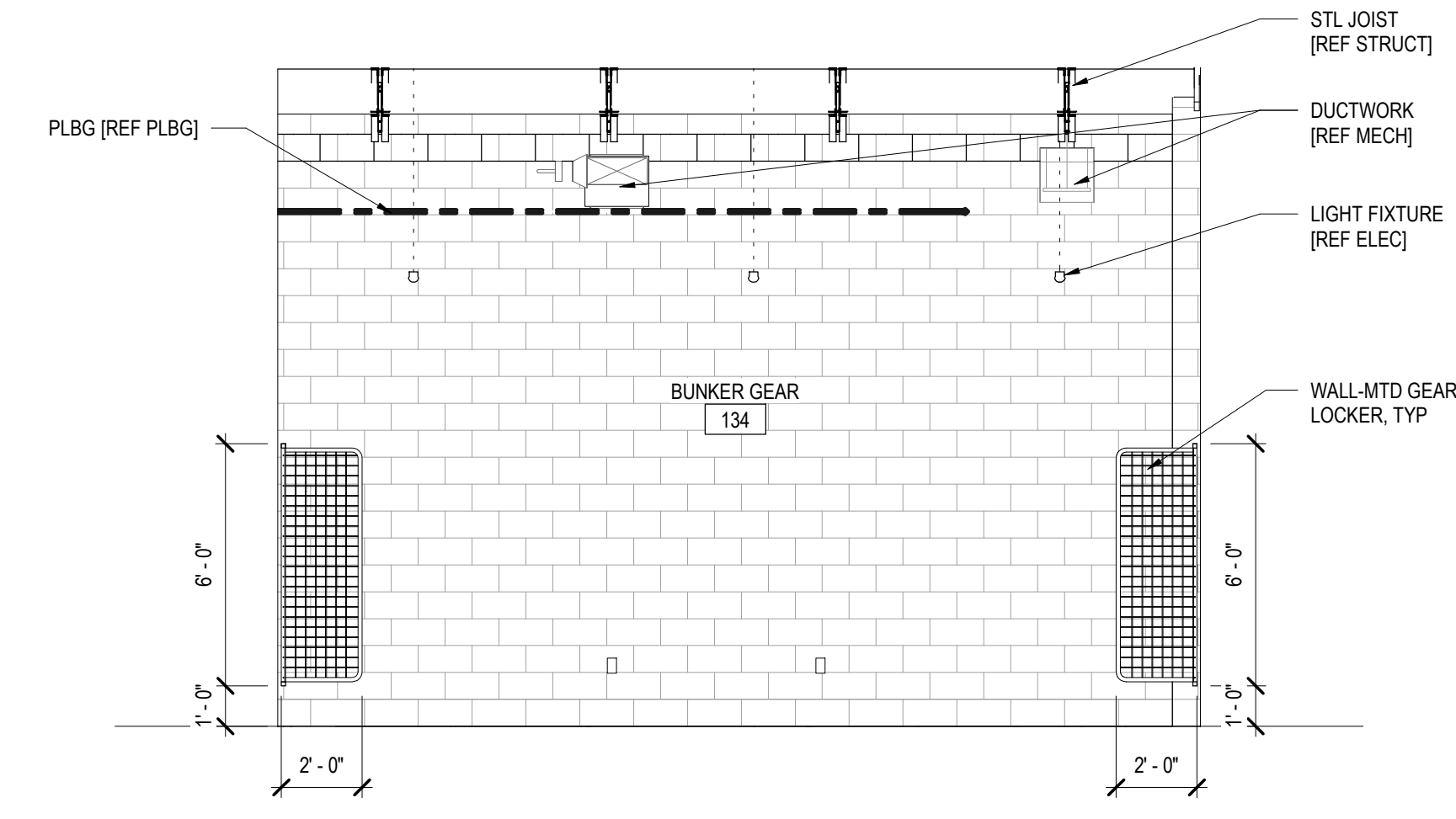




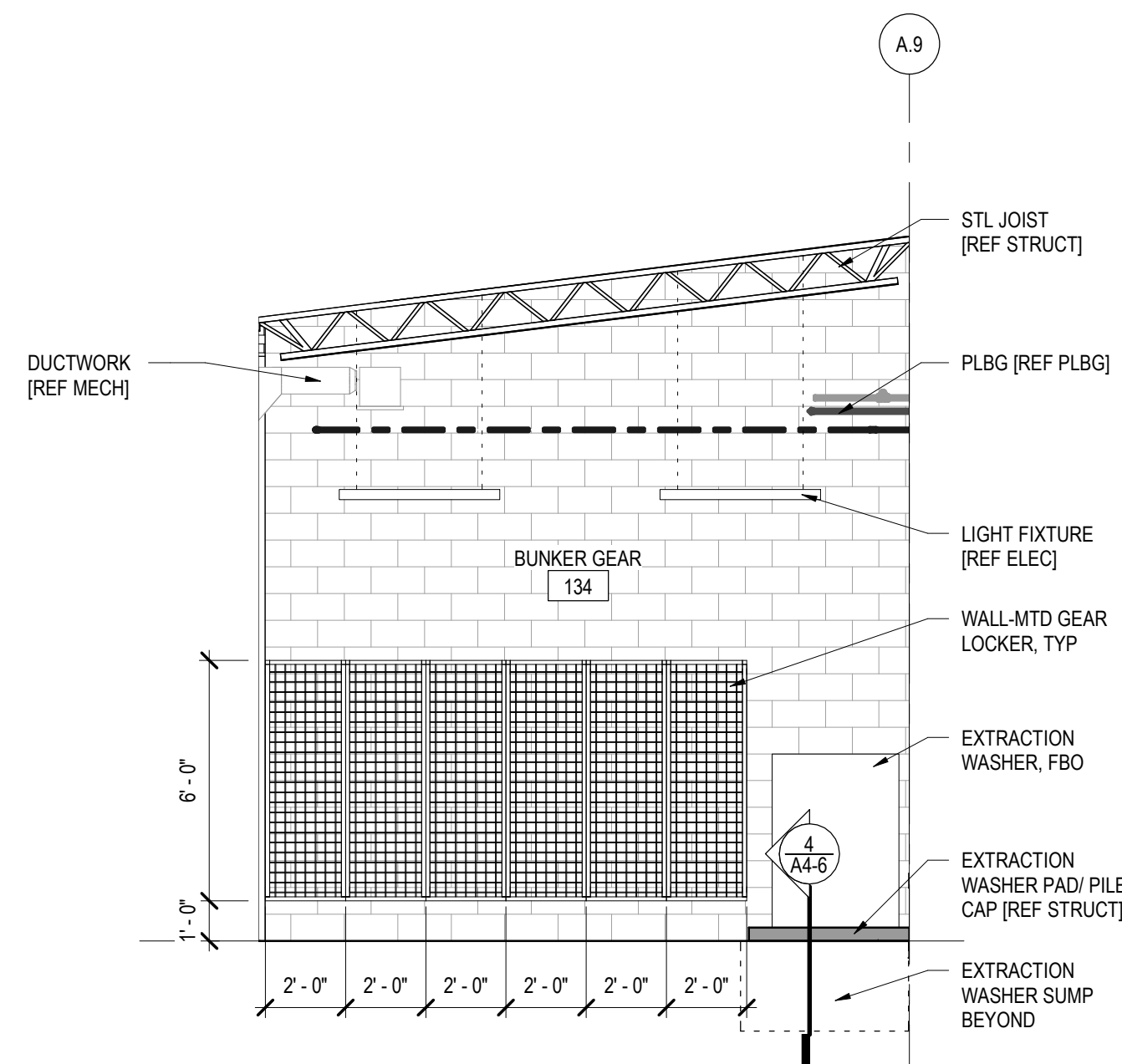
1 INTERIOR ELEVATION
A4-3 1/4" = 1'-0"



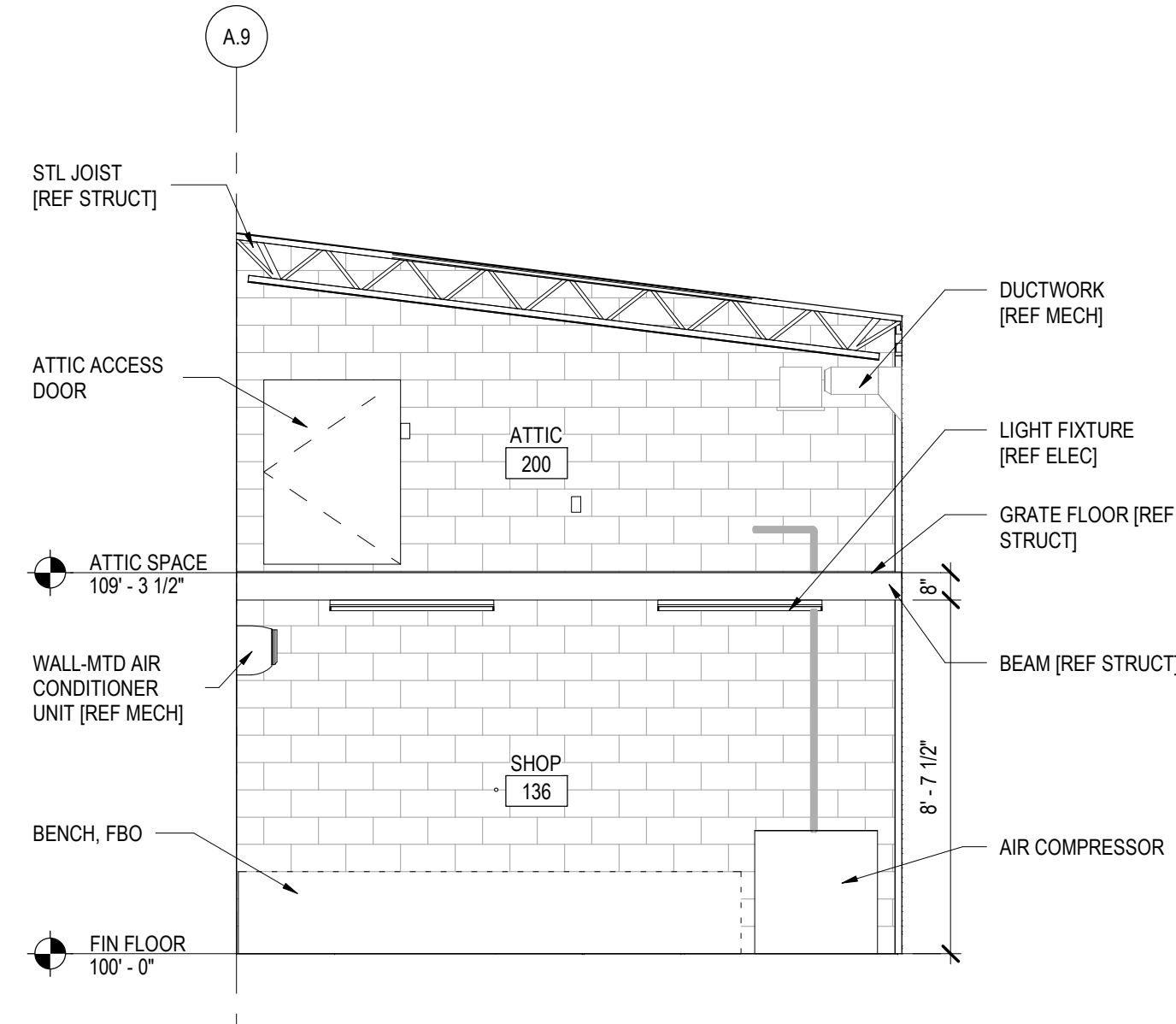
2 INTERIOR ELEVATION
A4-3 1/4" = 1'-0"



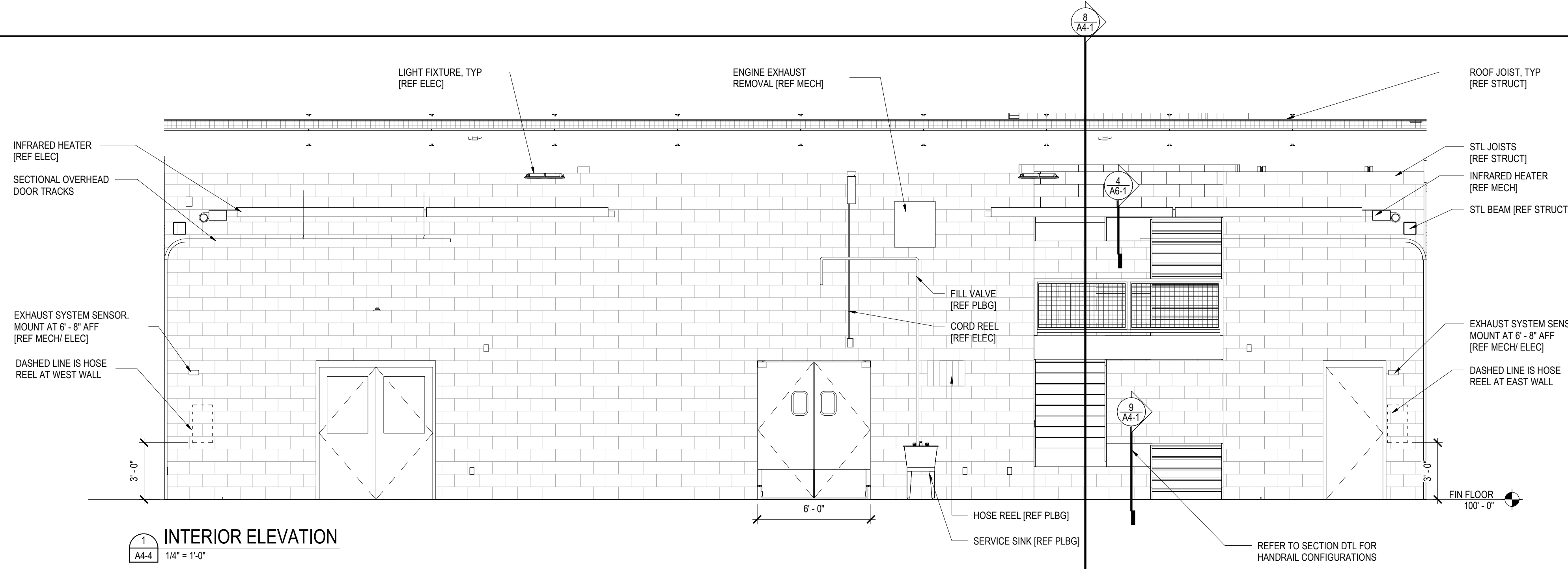
3 INTERIOR ELEVATION
A4-3 1/4" = 1'-0"



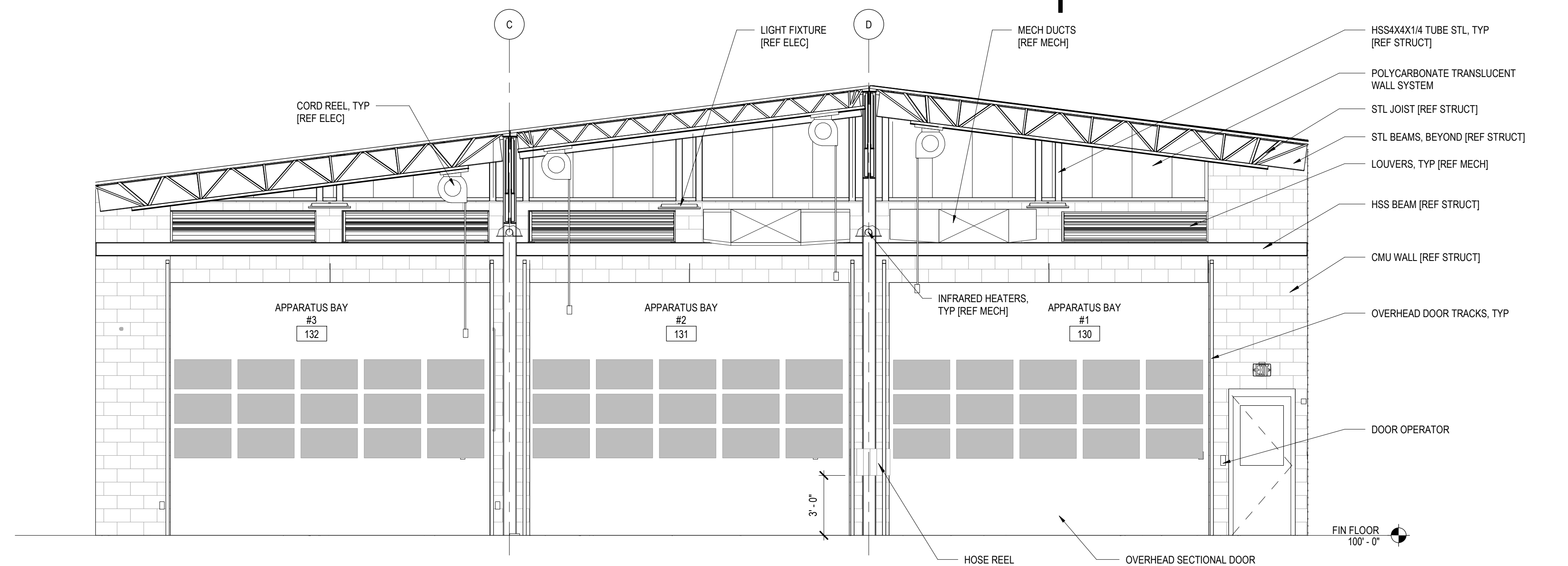
4 INTERIOR ELEVATION
A4-3 1/4" = 1'-0"



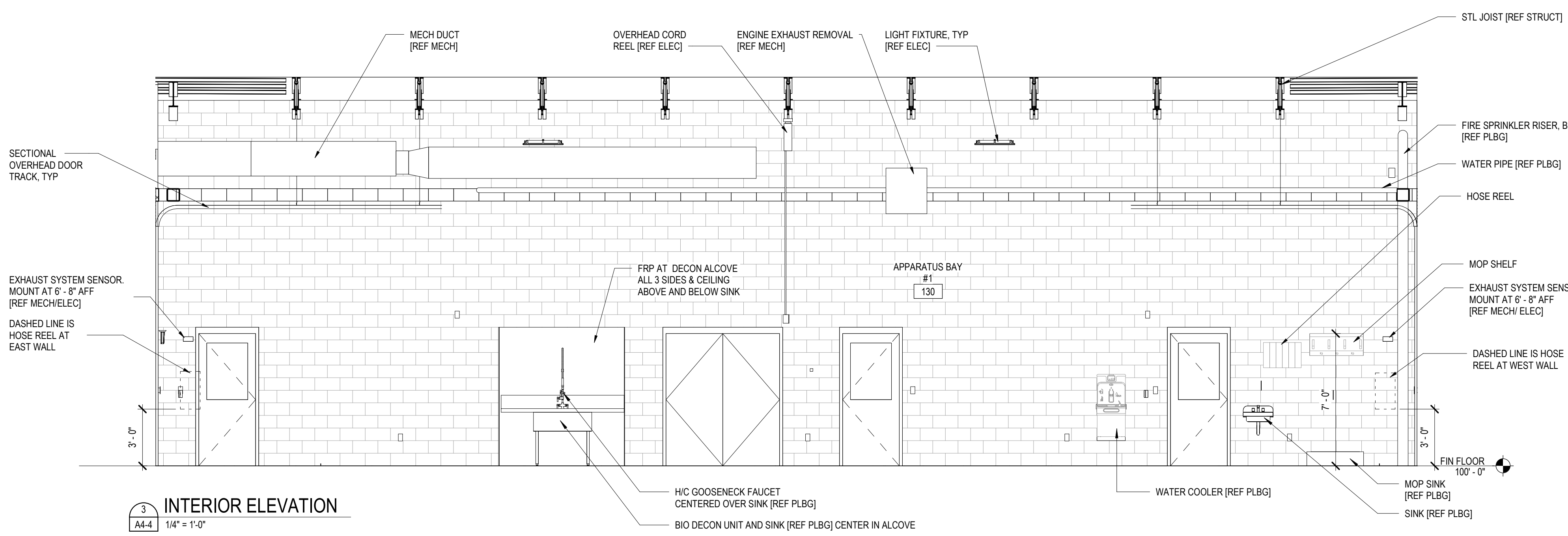
5 INTERIOR ELEVATION
A4-3 1/4" = 1'-0"



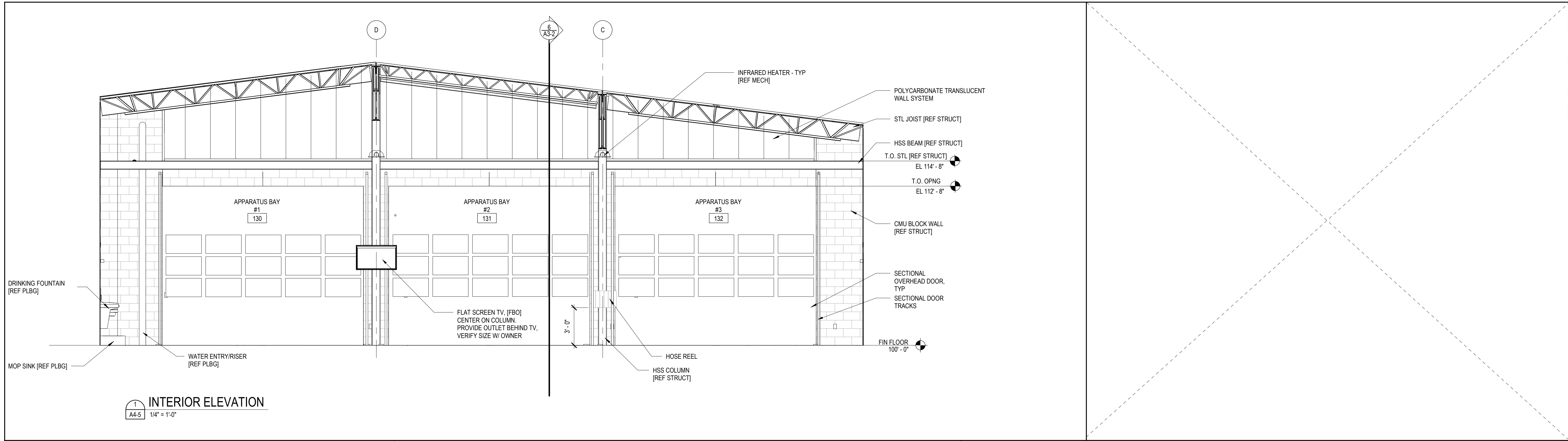
1
A4-4
1/4" = 1'-0"



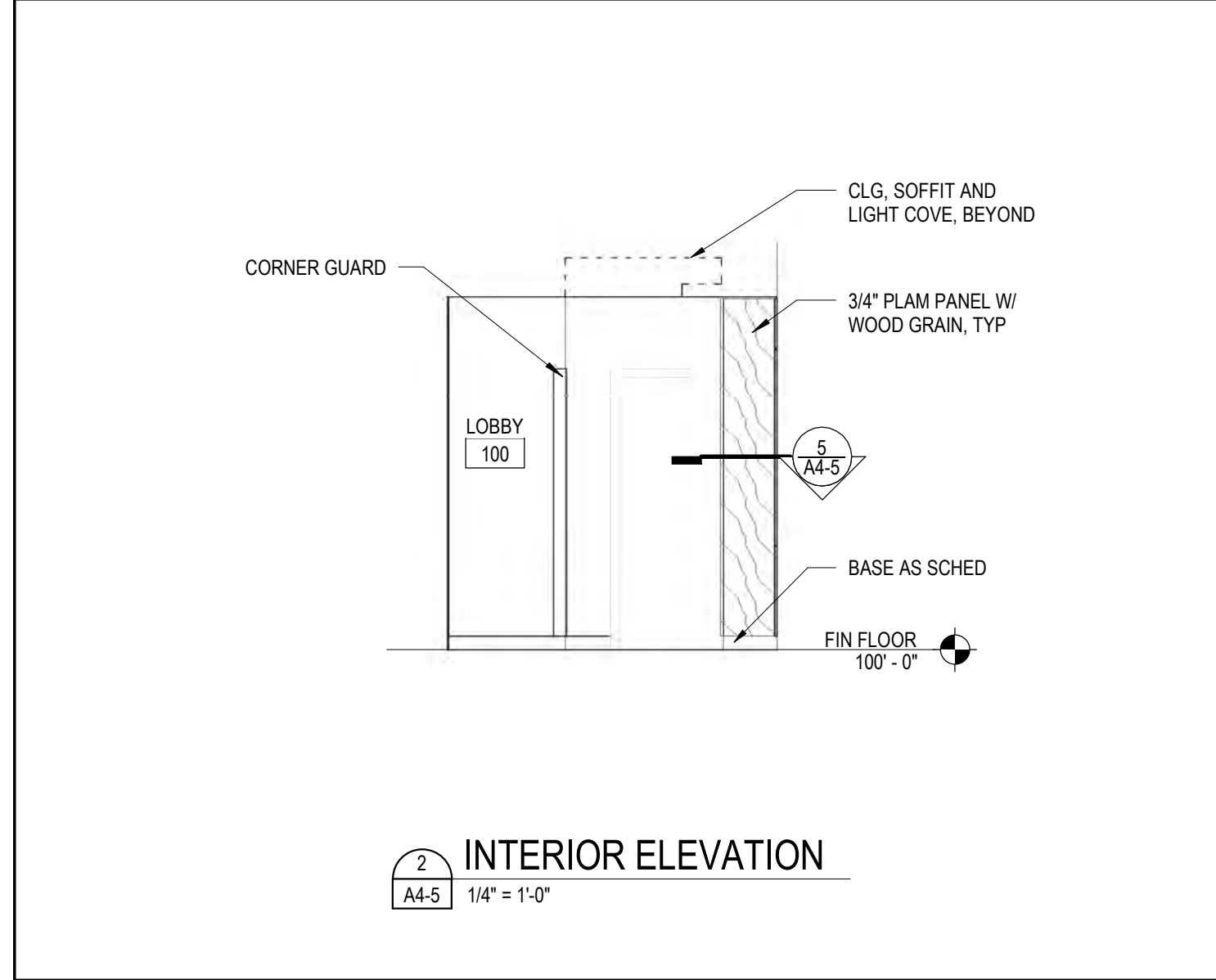
2
A4-4
1/4" = 1'-0"



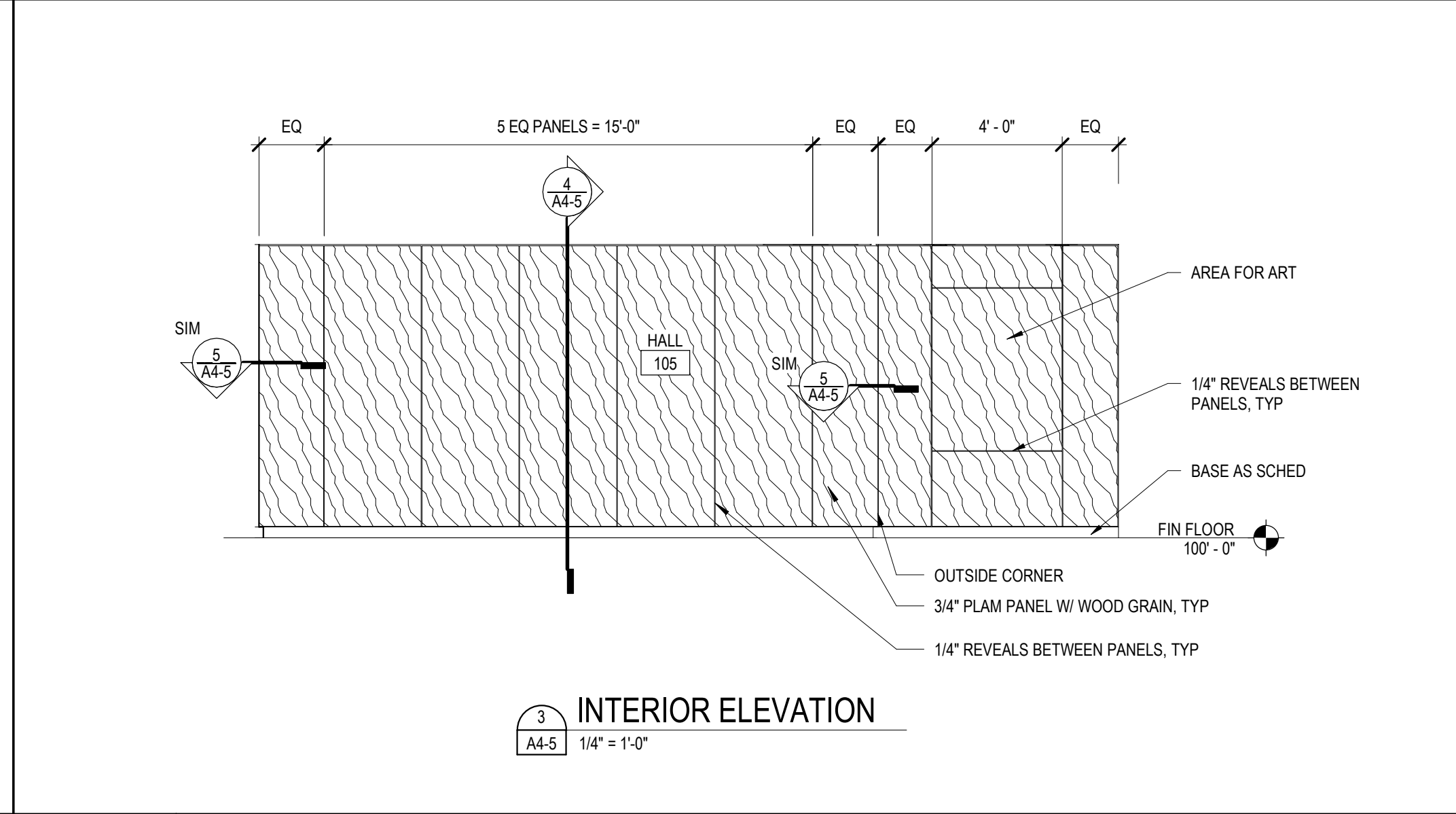
3
A4-4
1/4" = 1'-0"



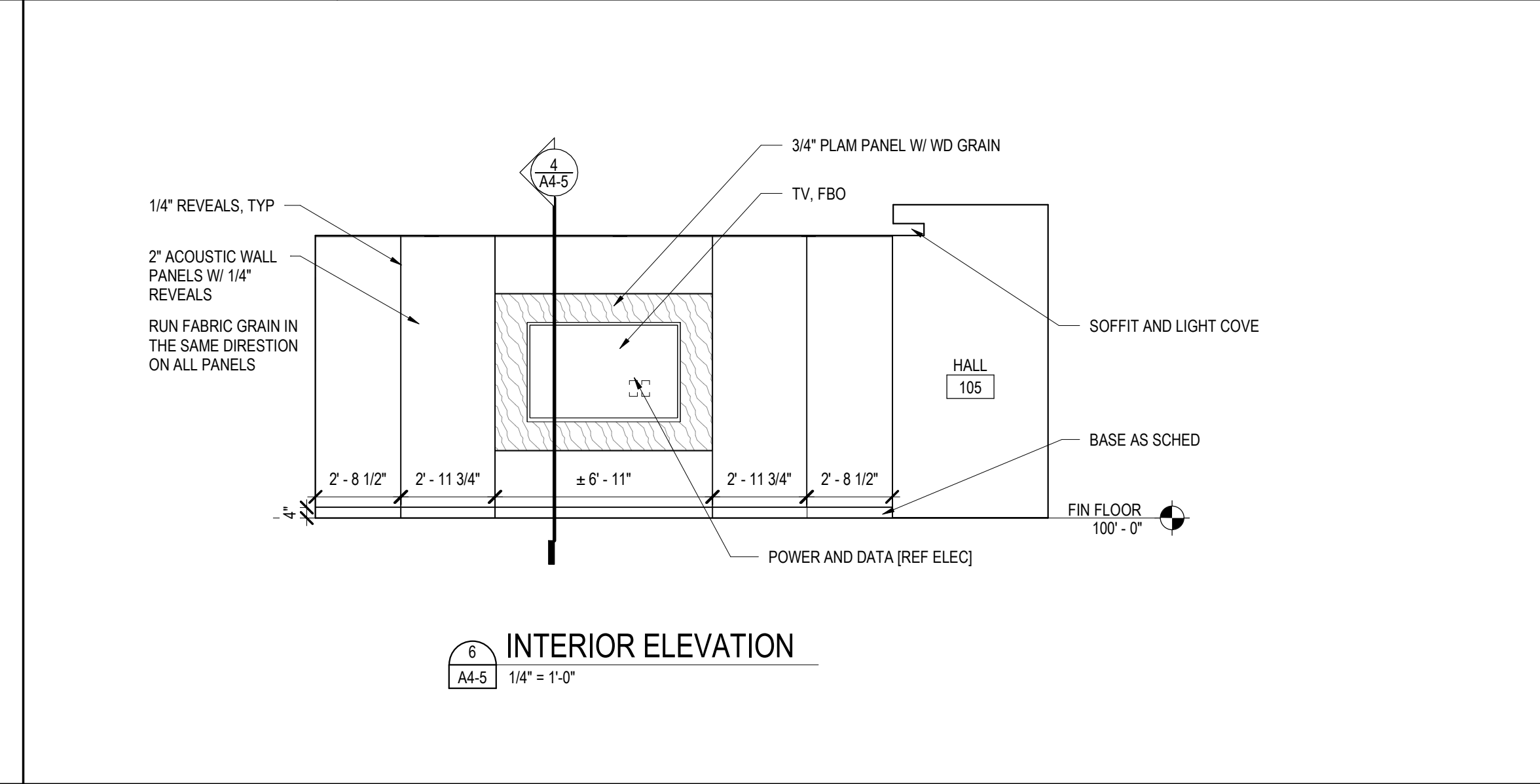
1
A4-5 1/4" = 1'-0"



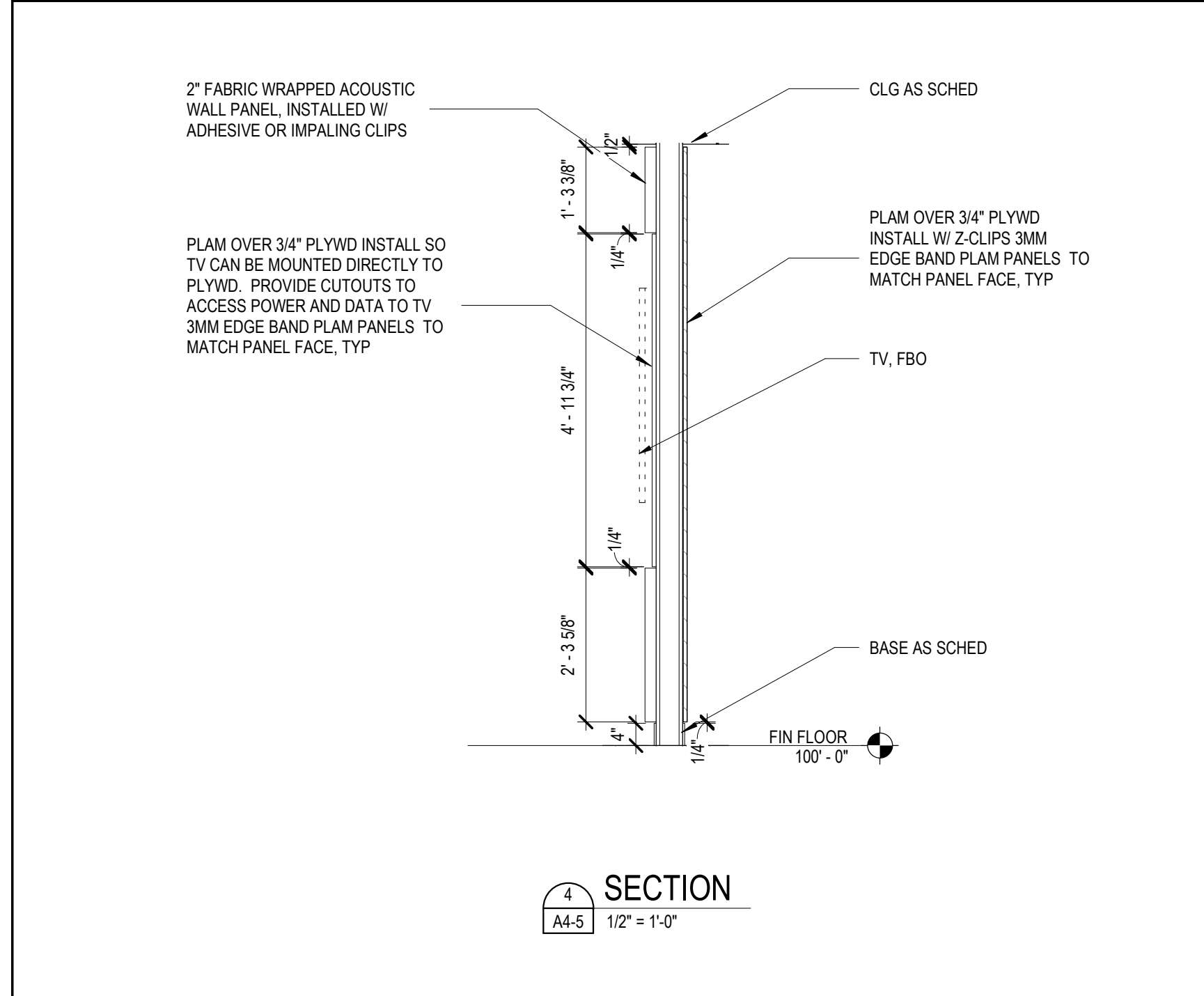
2
A4-5 1/4" = 1'-0"



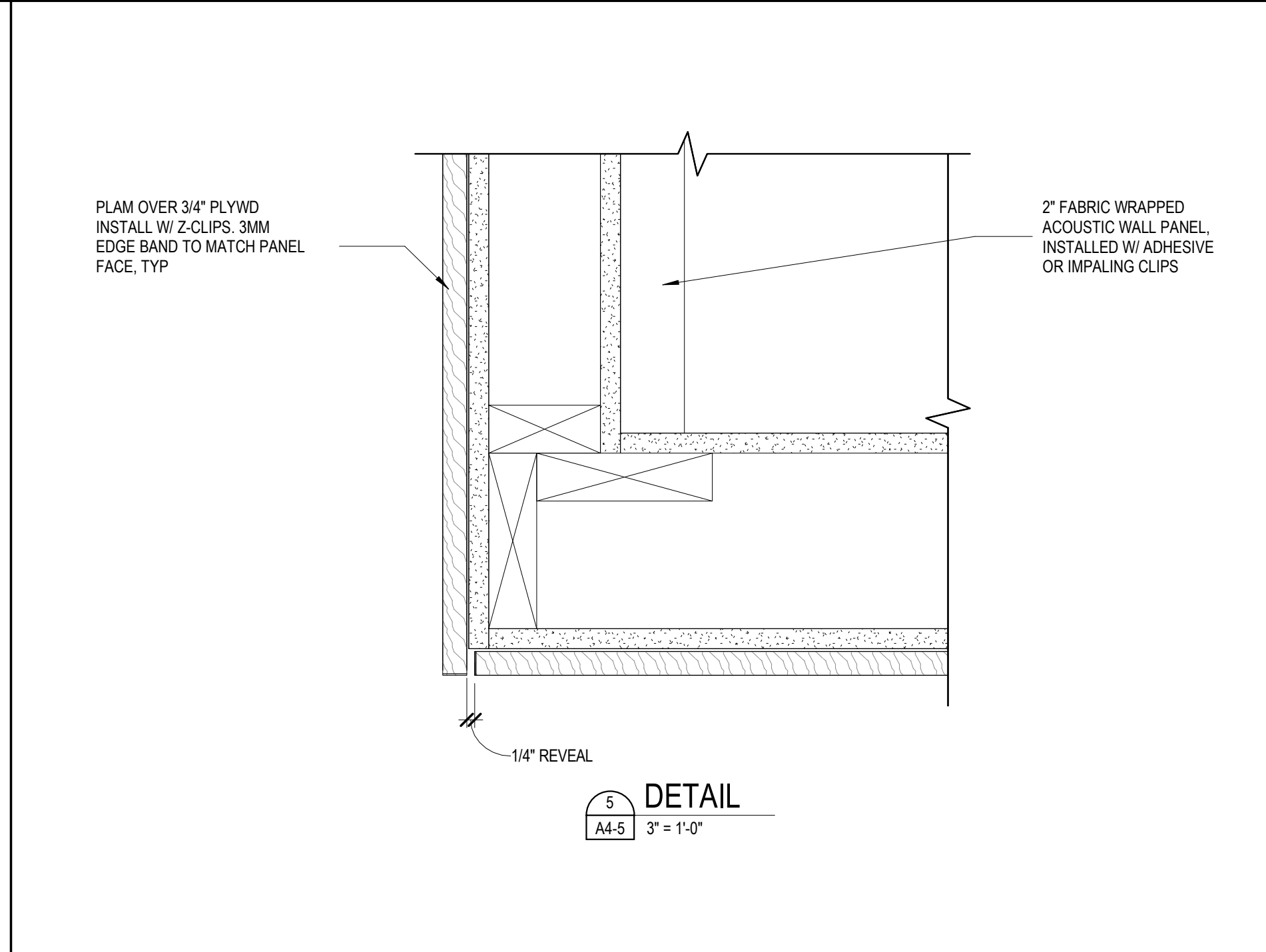
3
A4-5 1/4" = 1'-0"



4
A4-5 1/4" = 1'-0"

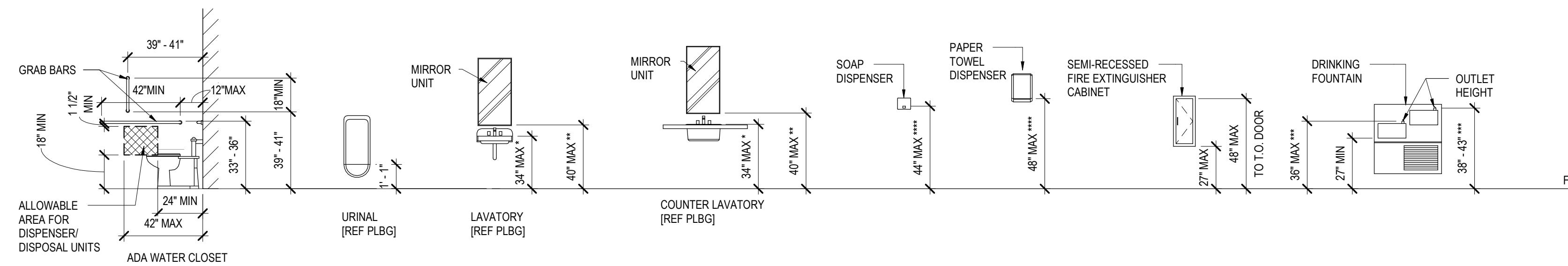


4
A4-5 1/2" = 1'-0"



5
A4-5 3" = 1'-0"

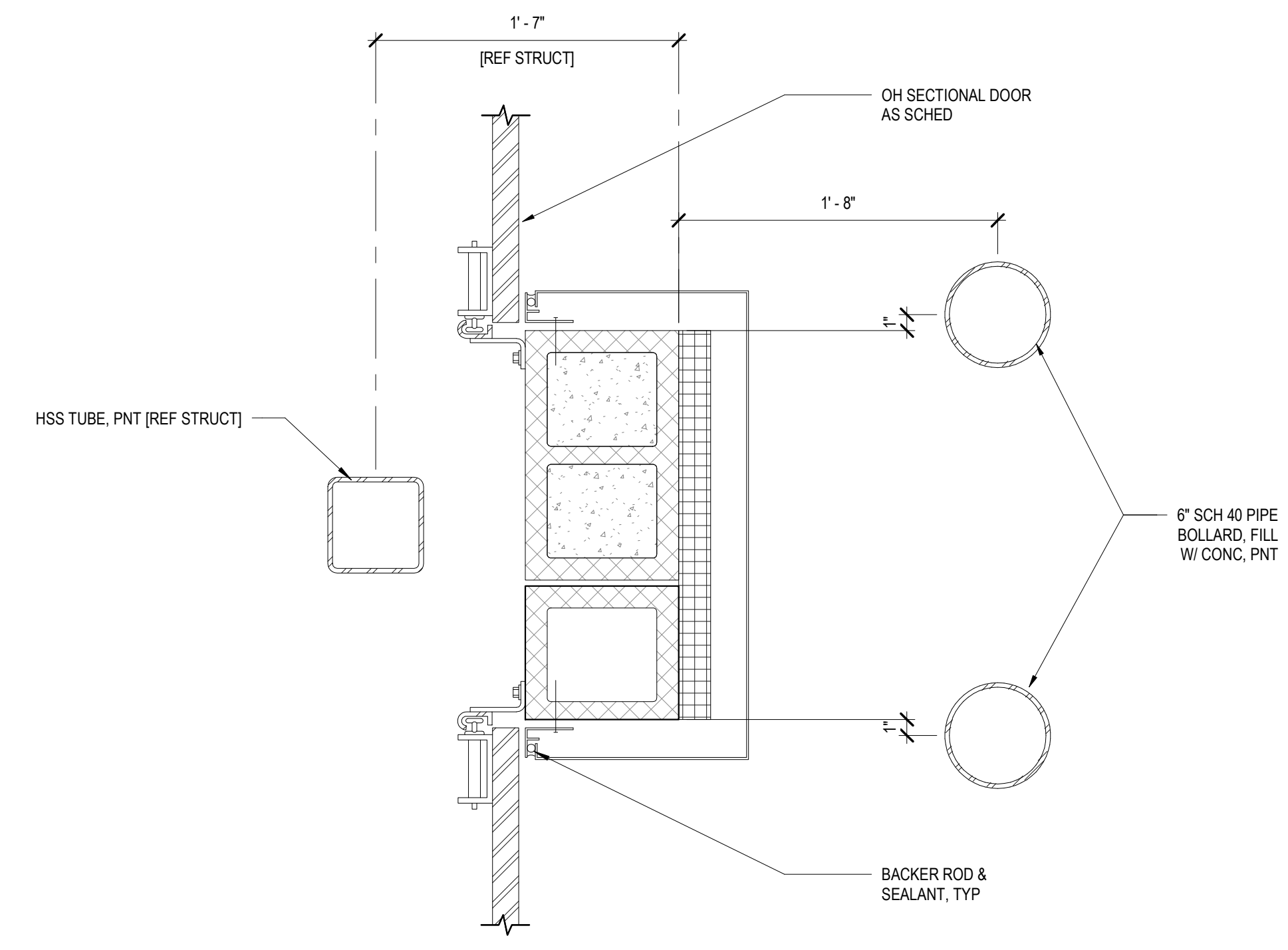
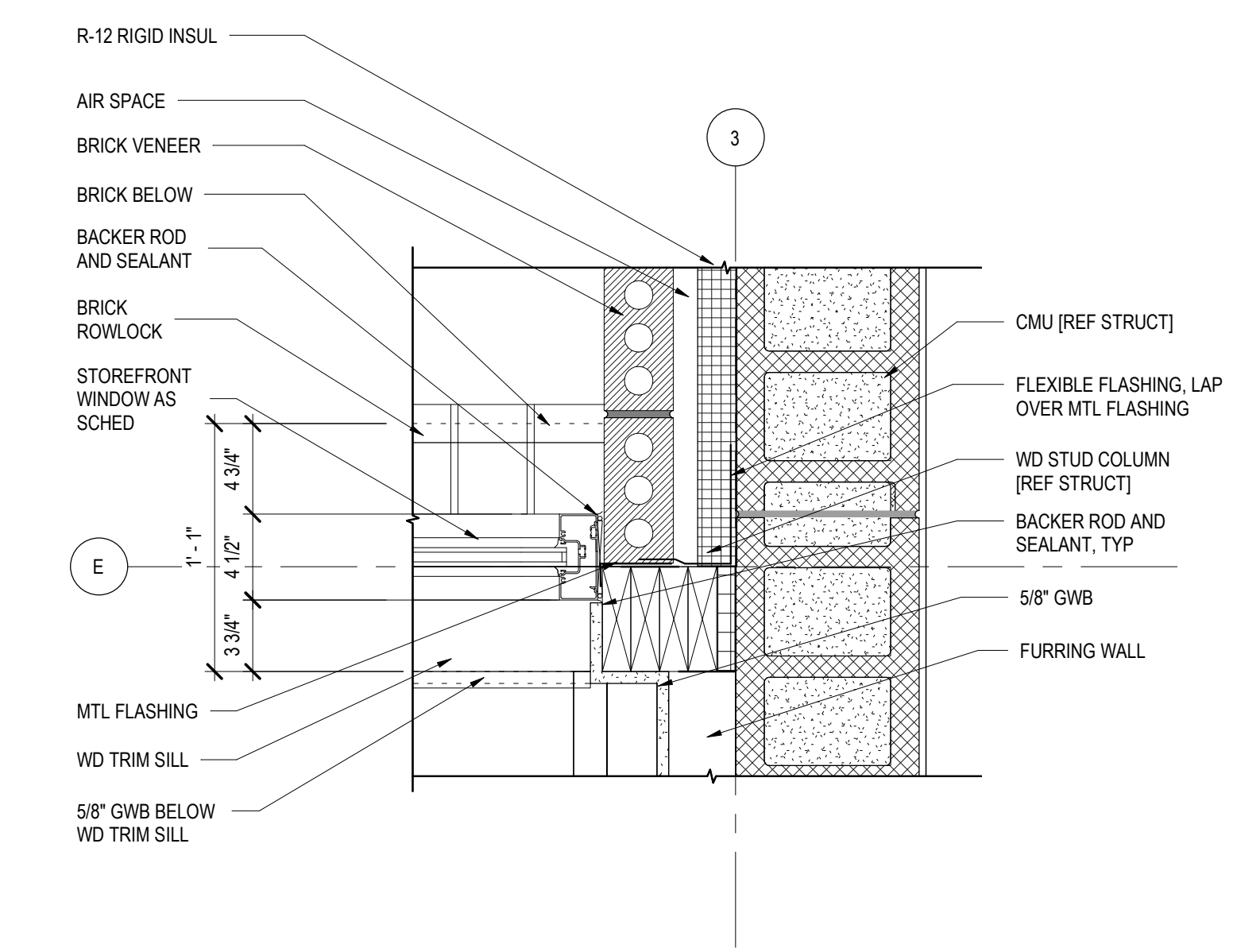
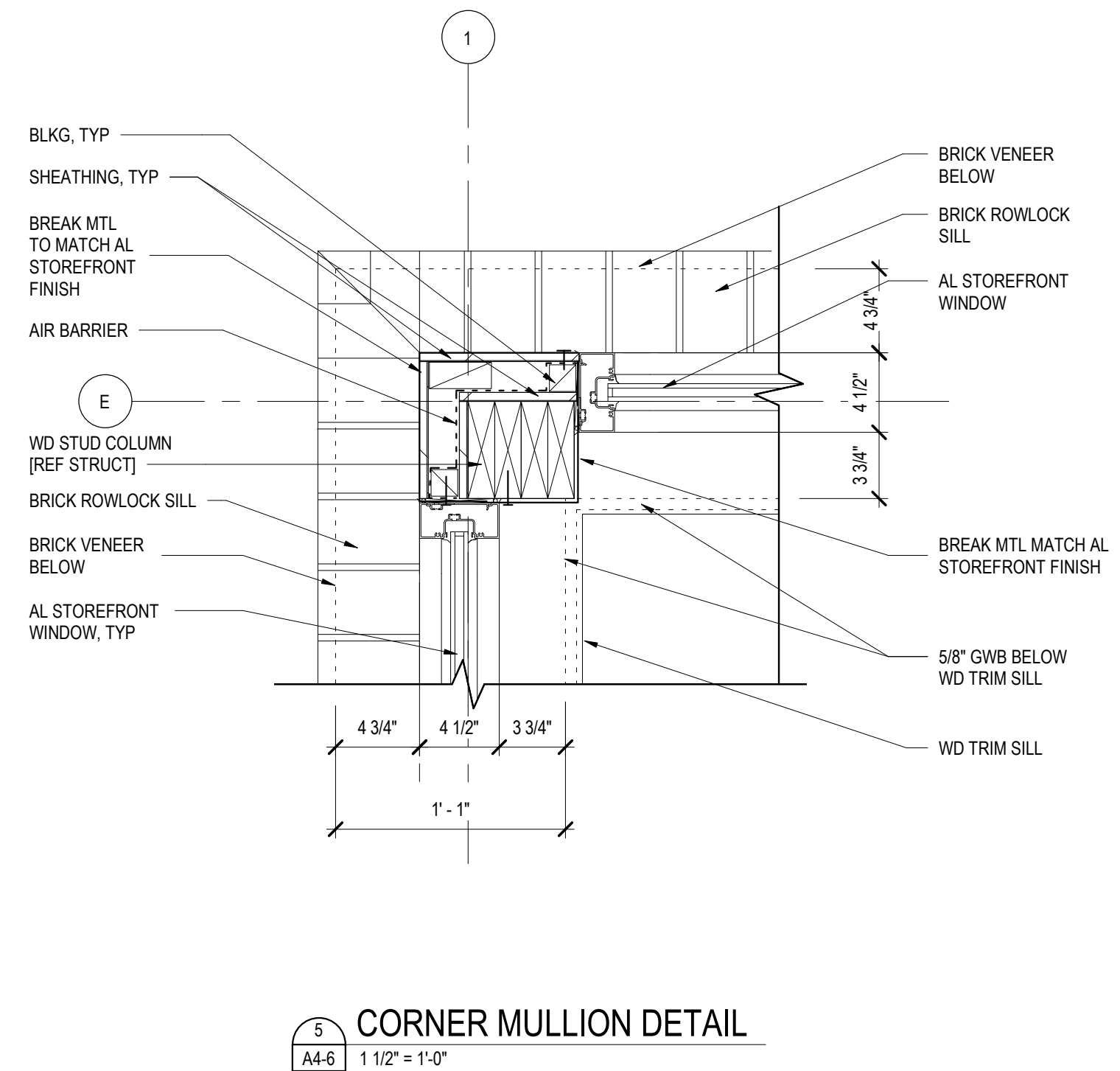
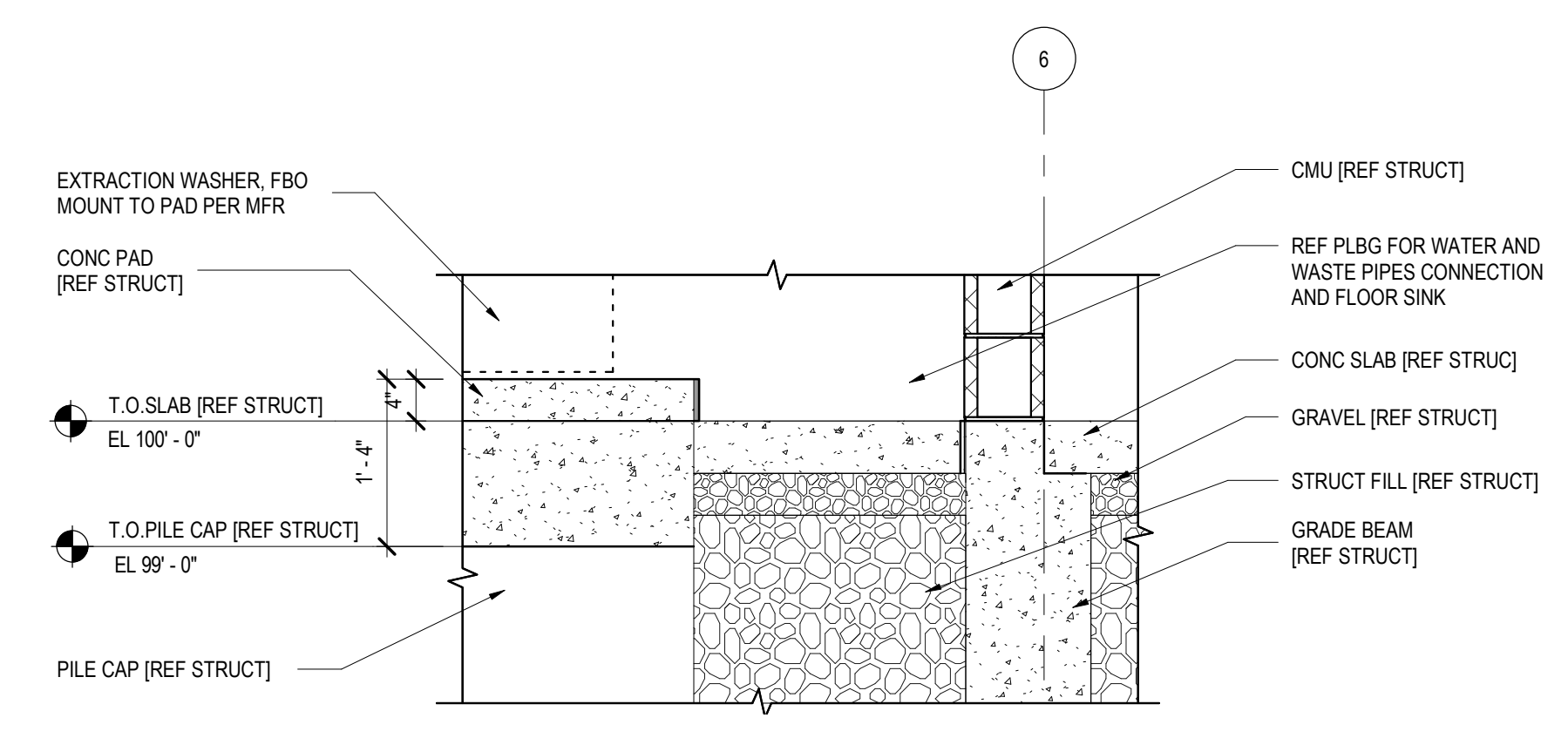
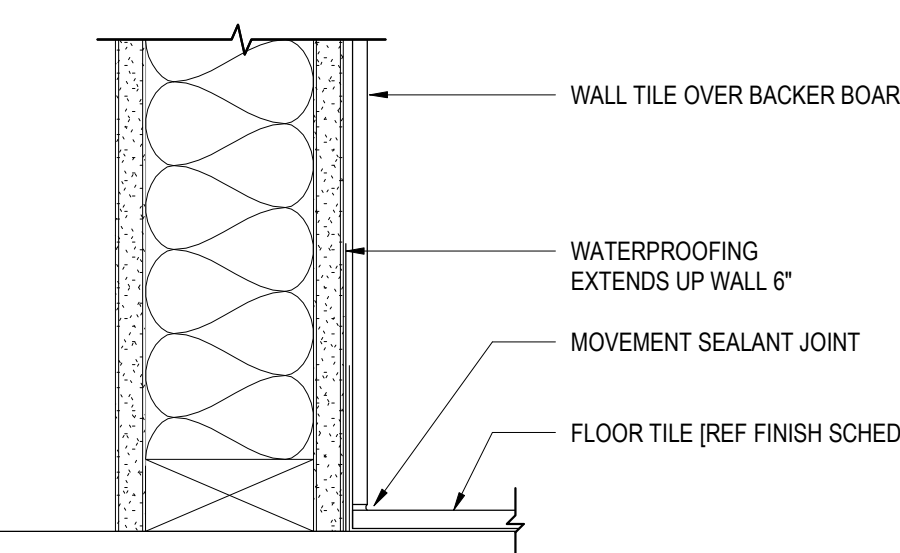
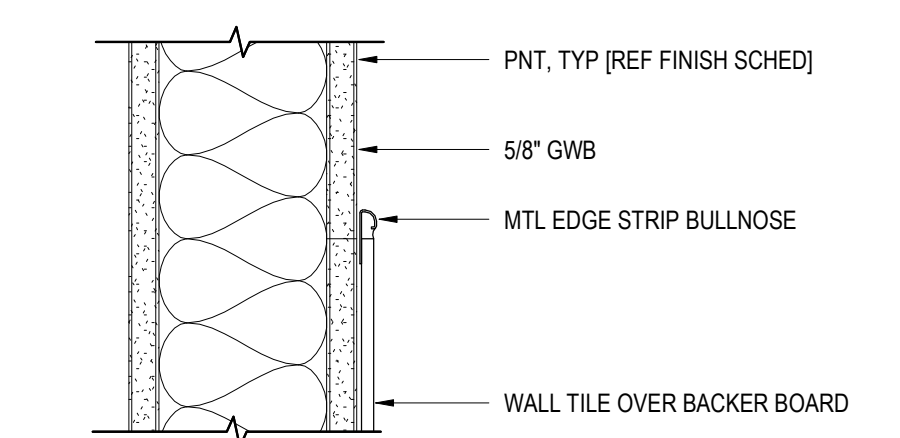
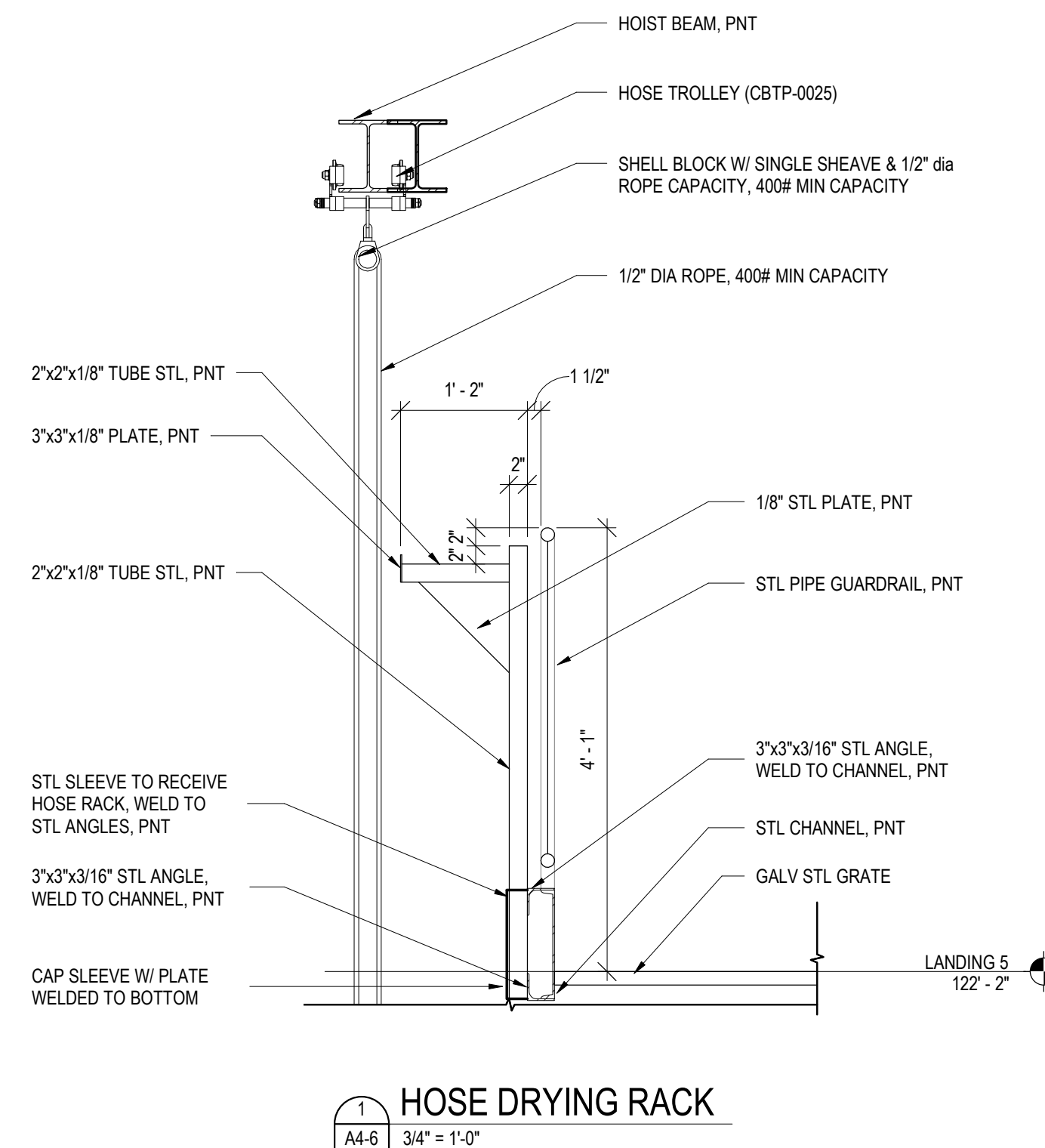
TYPICAL MOUNTING HEIGHTS



*DIMENSION IS TO RIM OF FIXTURE
**DIMENSION IS TO BOTTOM EDGE OF REFLECTING SURFACE
*** DIMENSION IS TO T.O. SPOUT OUTLET
**** DIMENSION IS TO T.O. OPERABLE PARTS

NOTES:
1. ALL FIXTURES AND TOILET ACCESSORIES SHOWN ON THIS DETAIL ARE FOR REFERENCE OF MOUNTING HEIGHT ONLY. ALL FIXTURES AND ACCESSORIES ARE TO BE MOUNTED AT BARRIER FREE HEIGHTS AS RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS.
2. ALL FIXTURES AND TOILET ACCESSORIES REQUIRED FOR THIS PROJECT MAY NOT APPEAR ON THIS DETAIL. ALL ITEMS SHOWN ON THIS DETAIL MAY NOT BE REQUIRED FOR THIS PROJECT.

TA1 TOILET PAPER DISPENSER
TA2 SOAP DISPENSER
TA3 MIRROR
TA4 NAPKIN DISPENSER
TA5 GRAB BARS
TA6 PAPER TOWEL DISPENSER



GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

INTERIOR DETAILS

FOR CONSTRUCTION

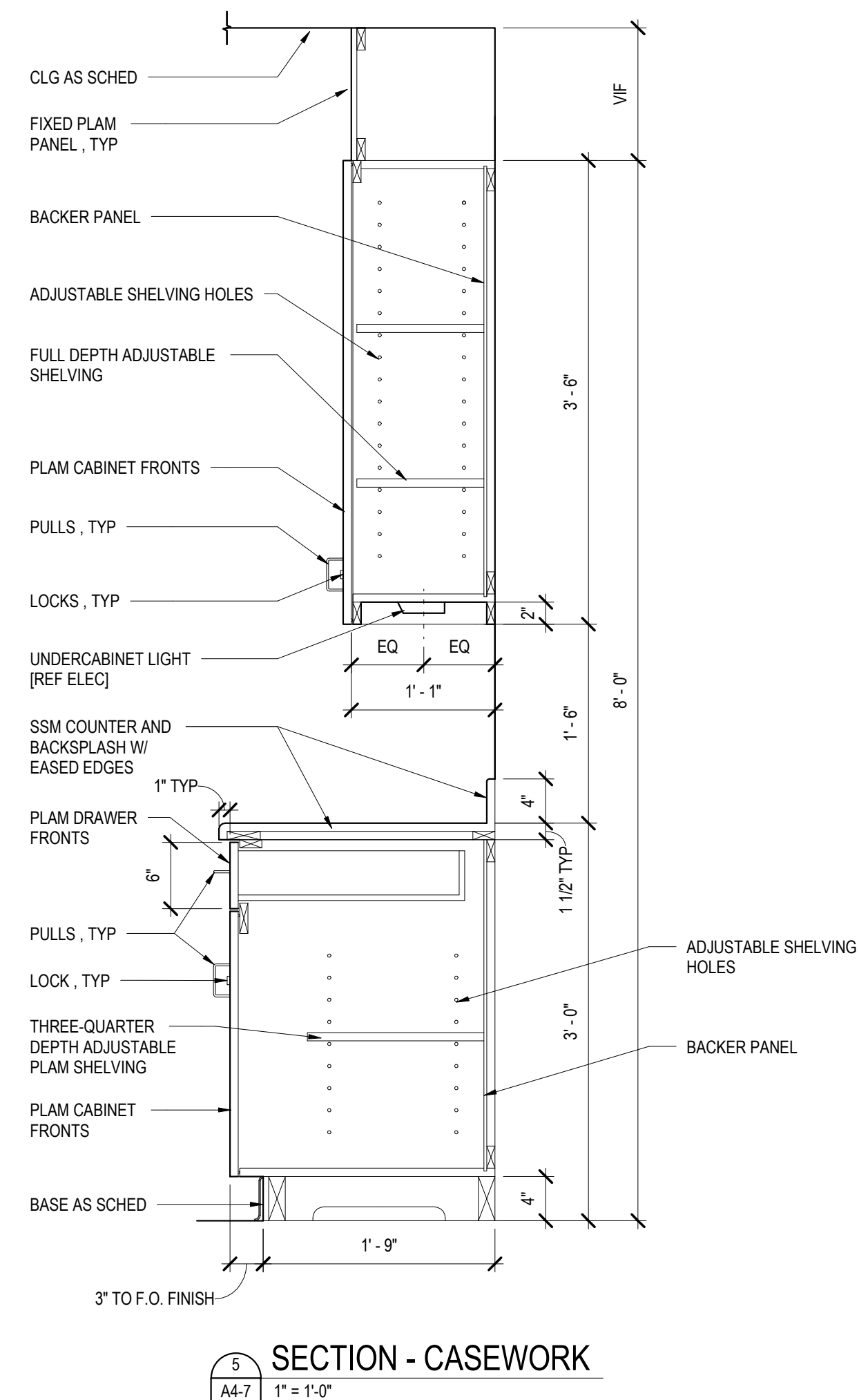
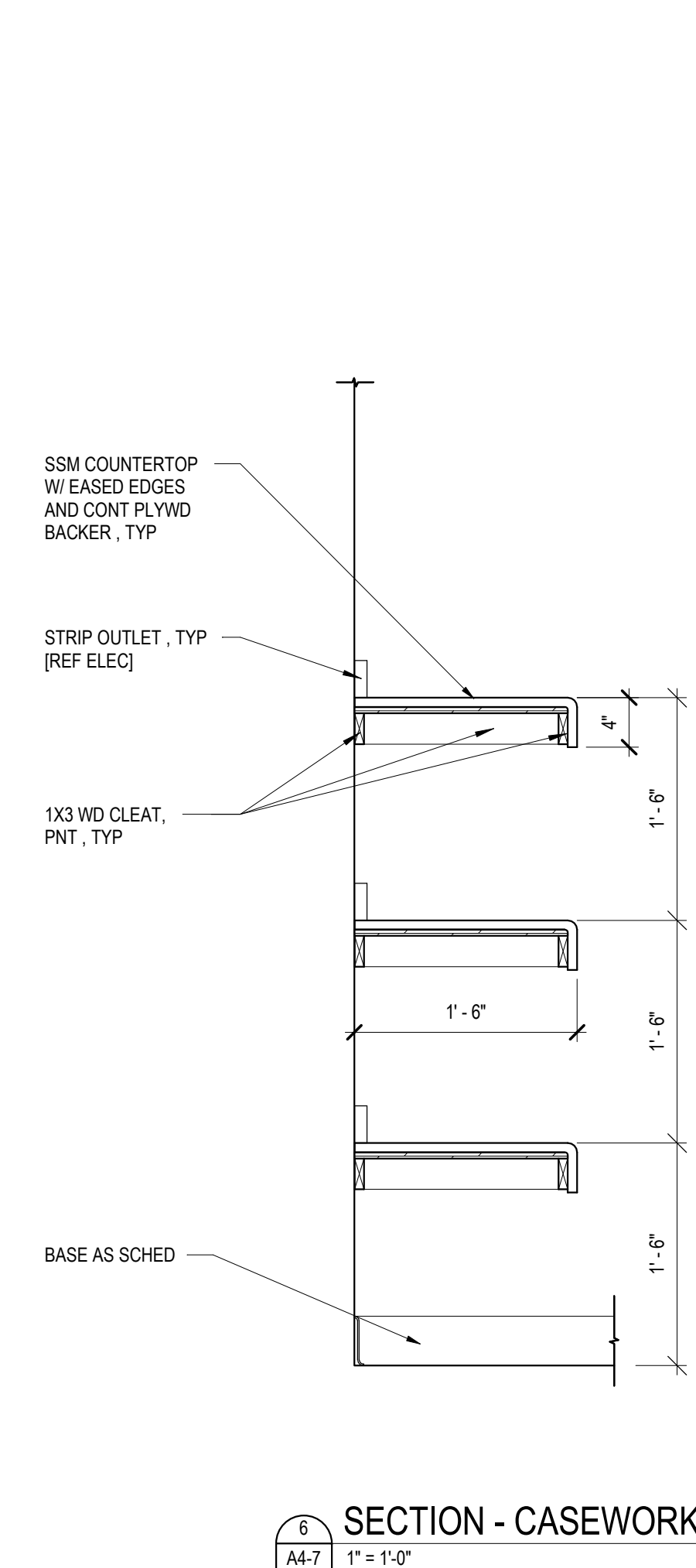
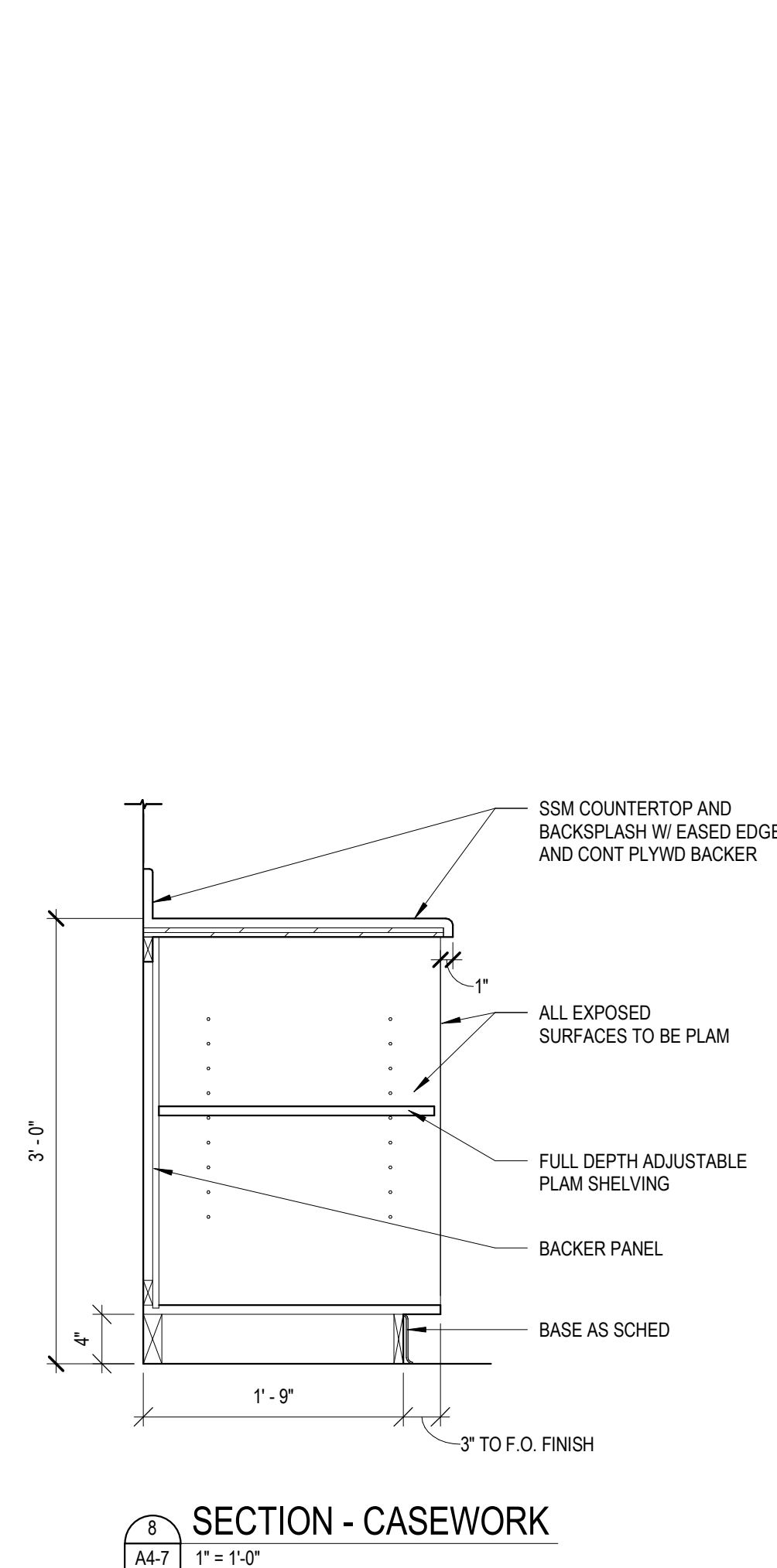
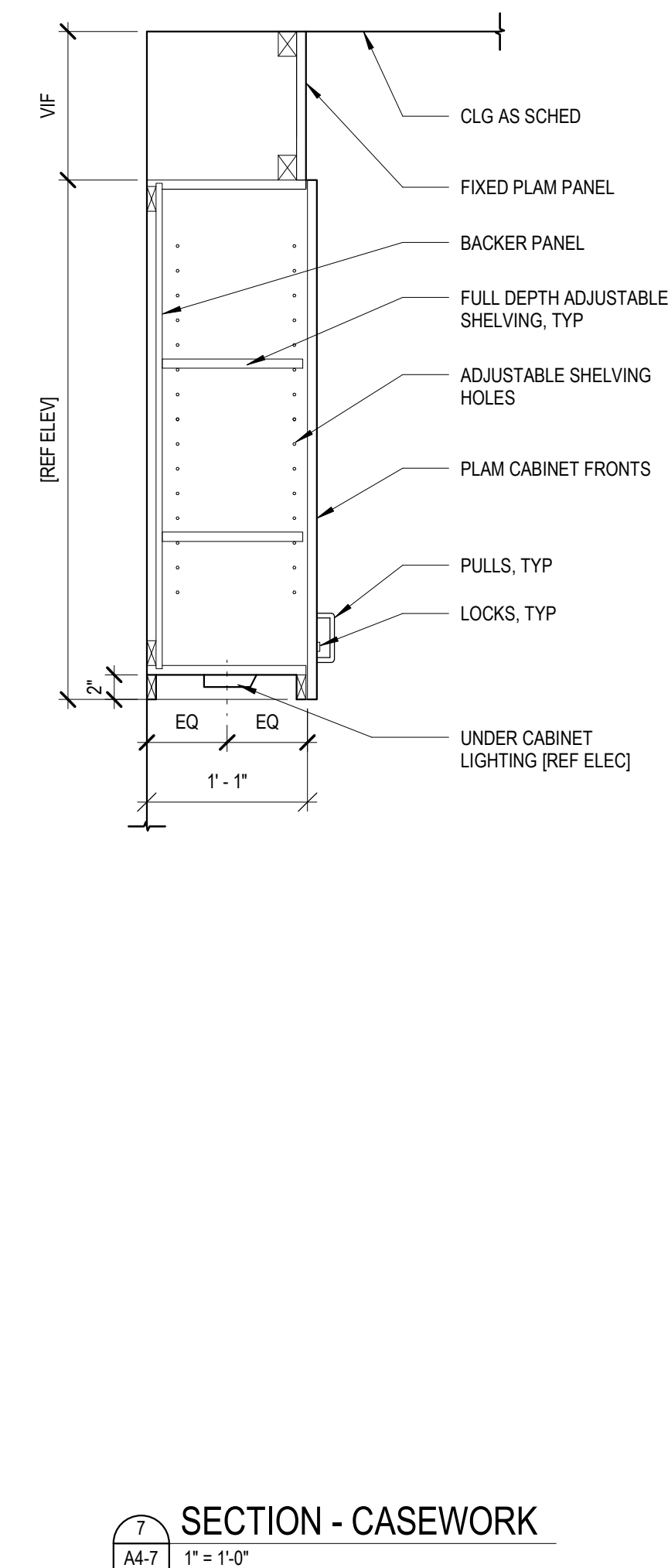
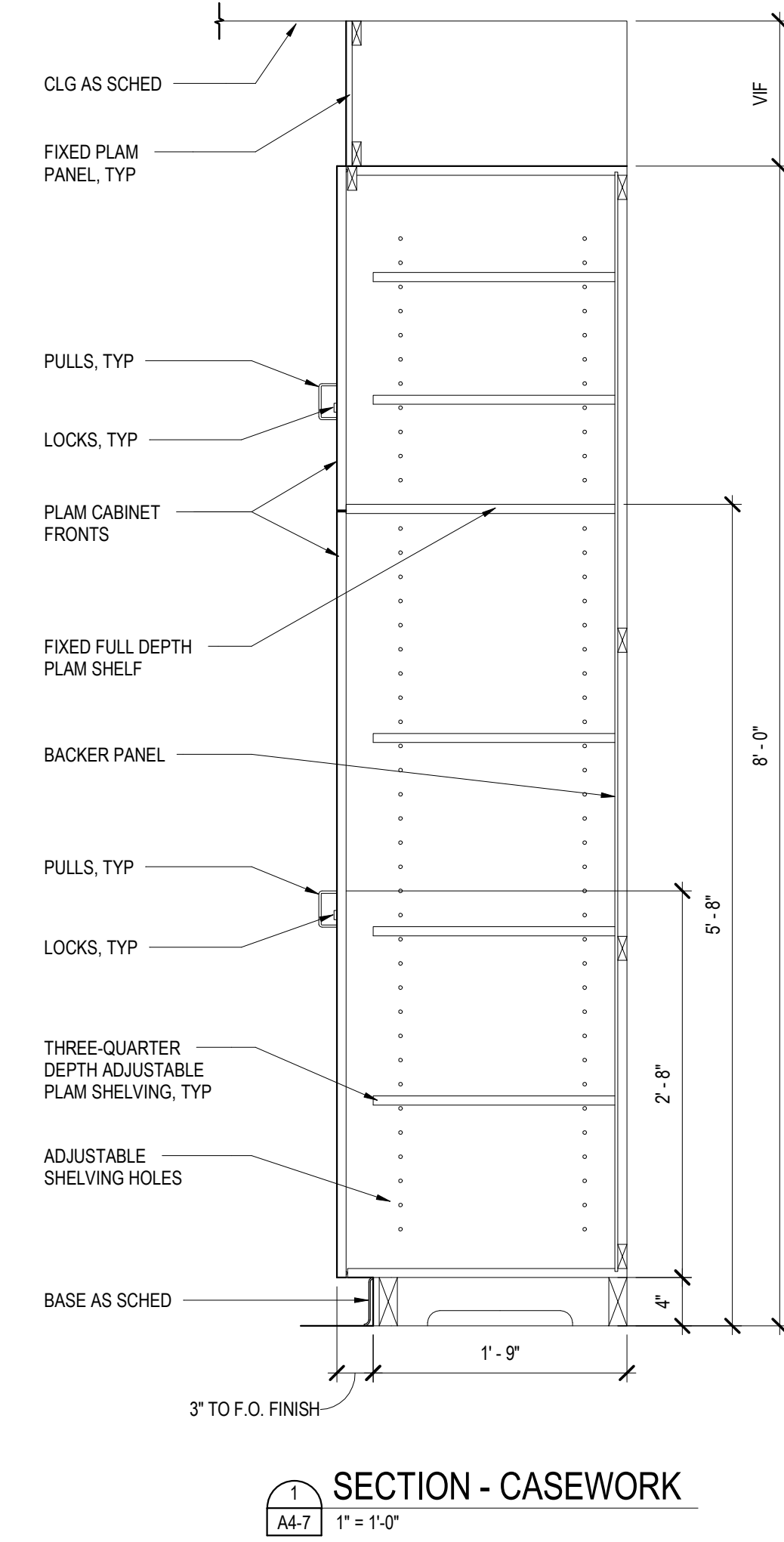
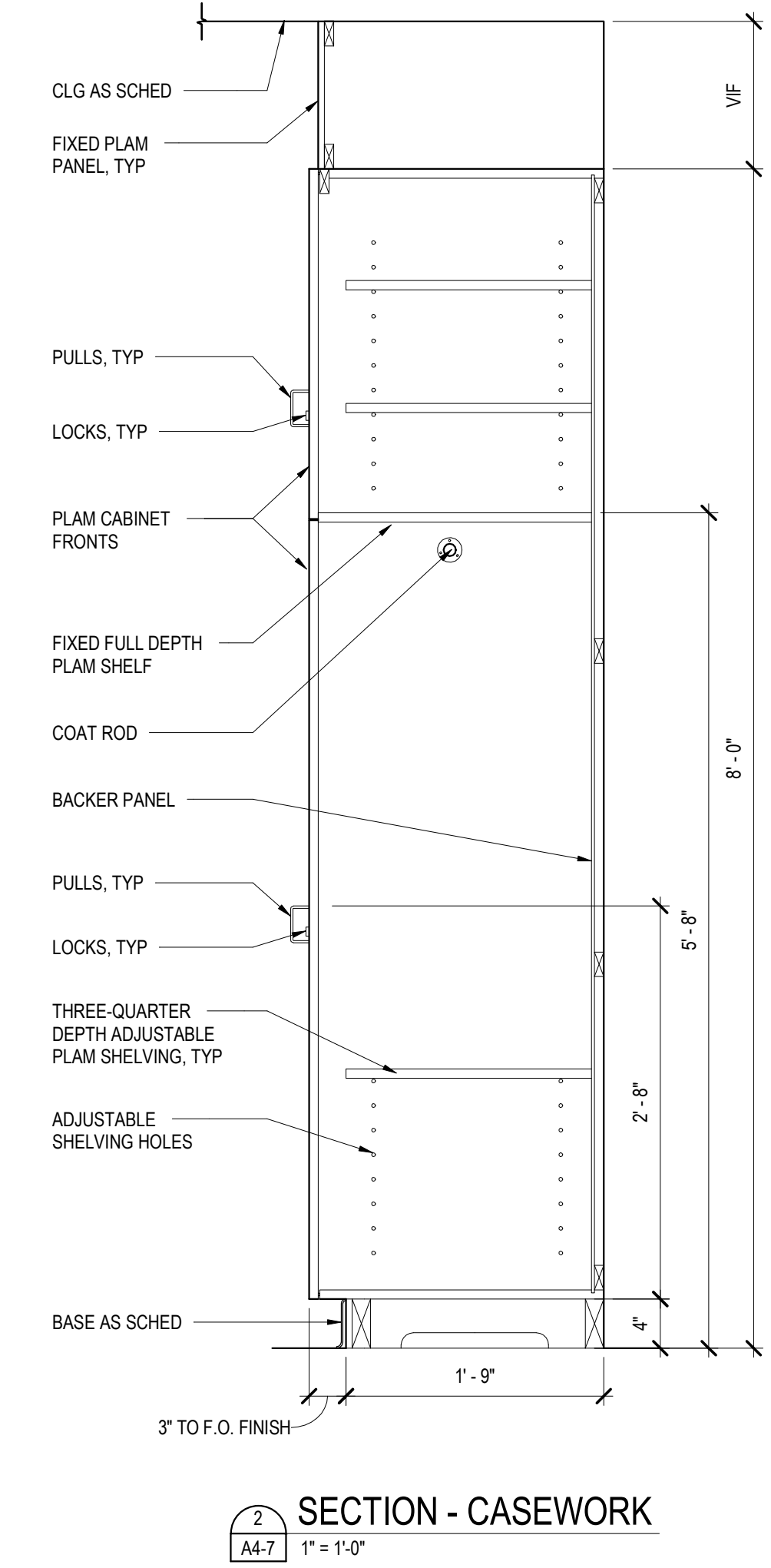
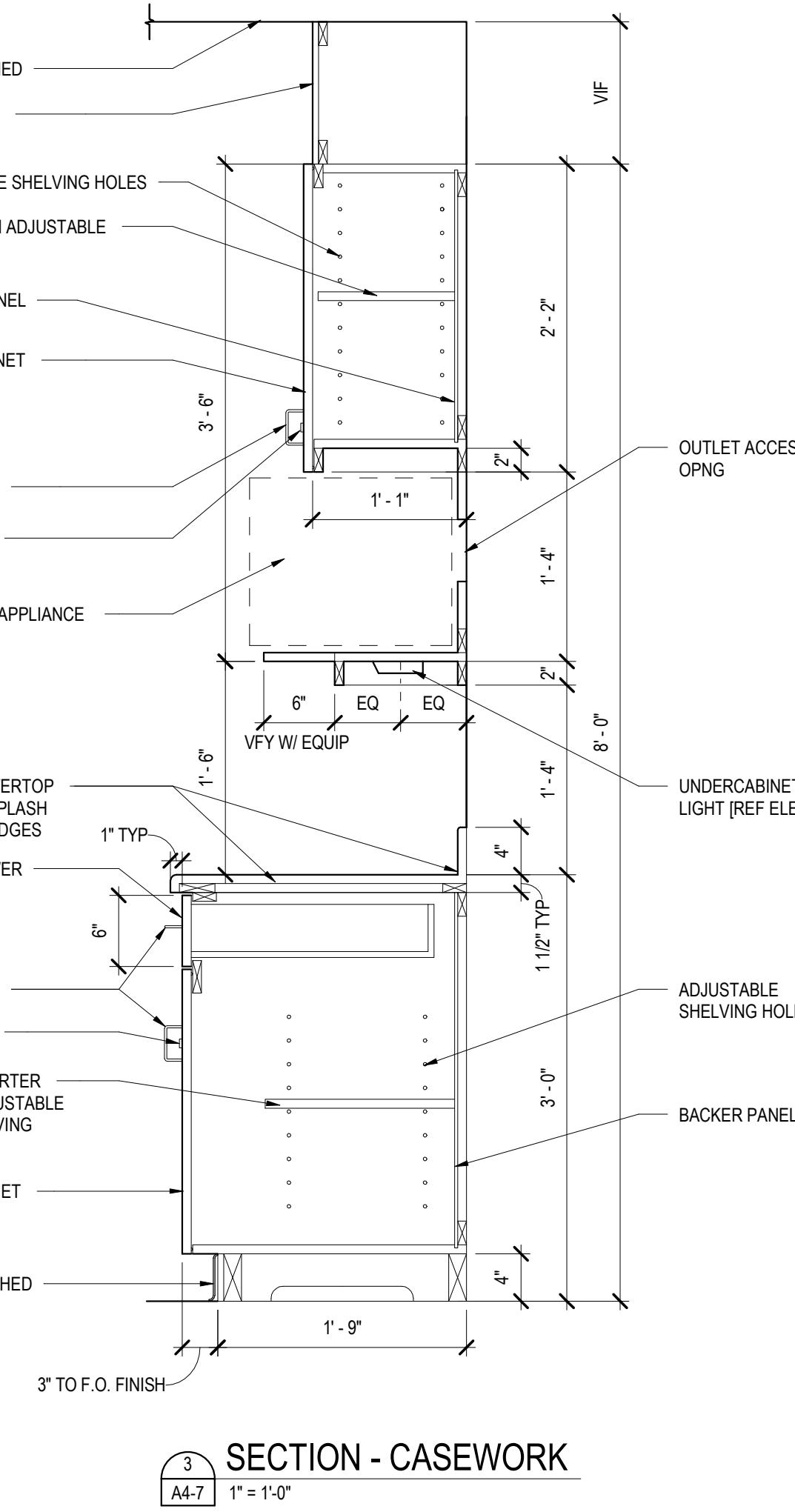
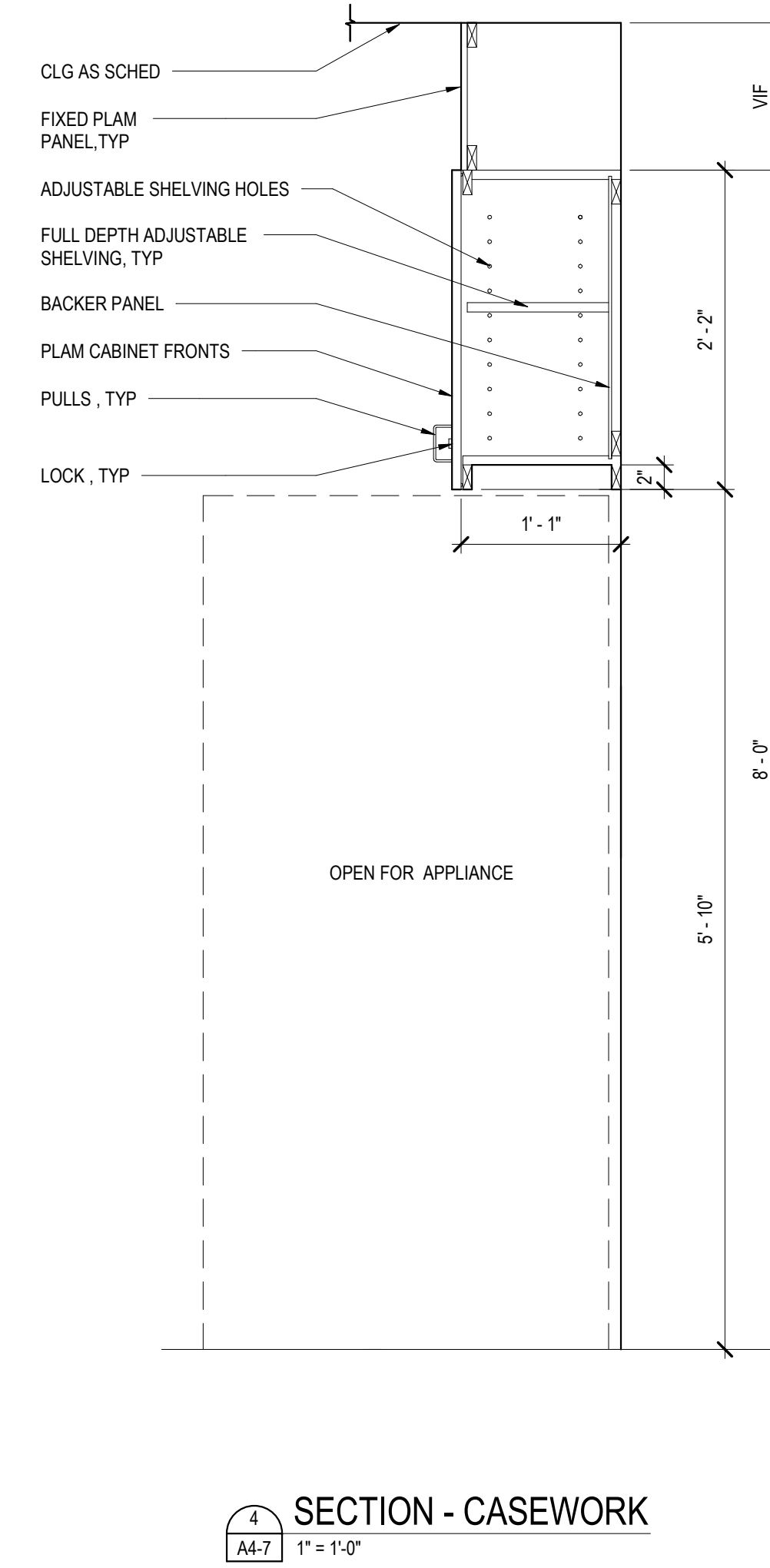
REV. DESC. DATE:

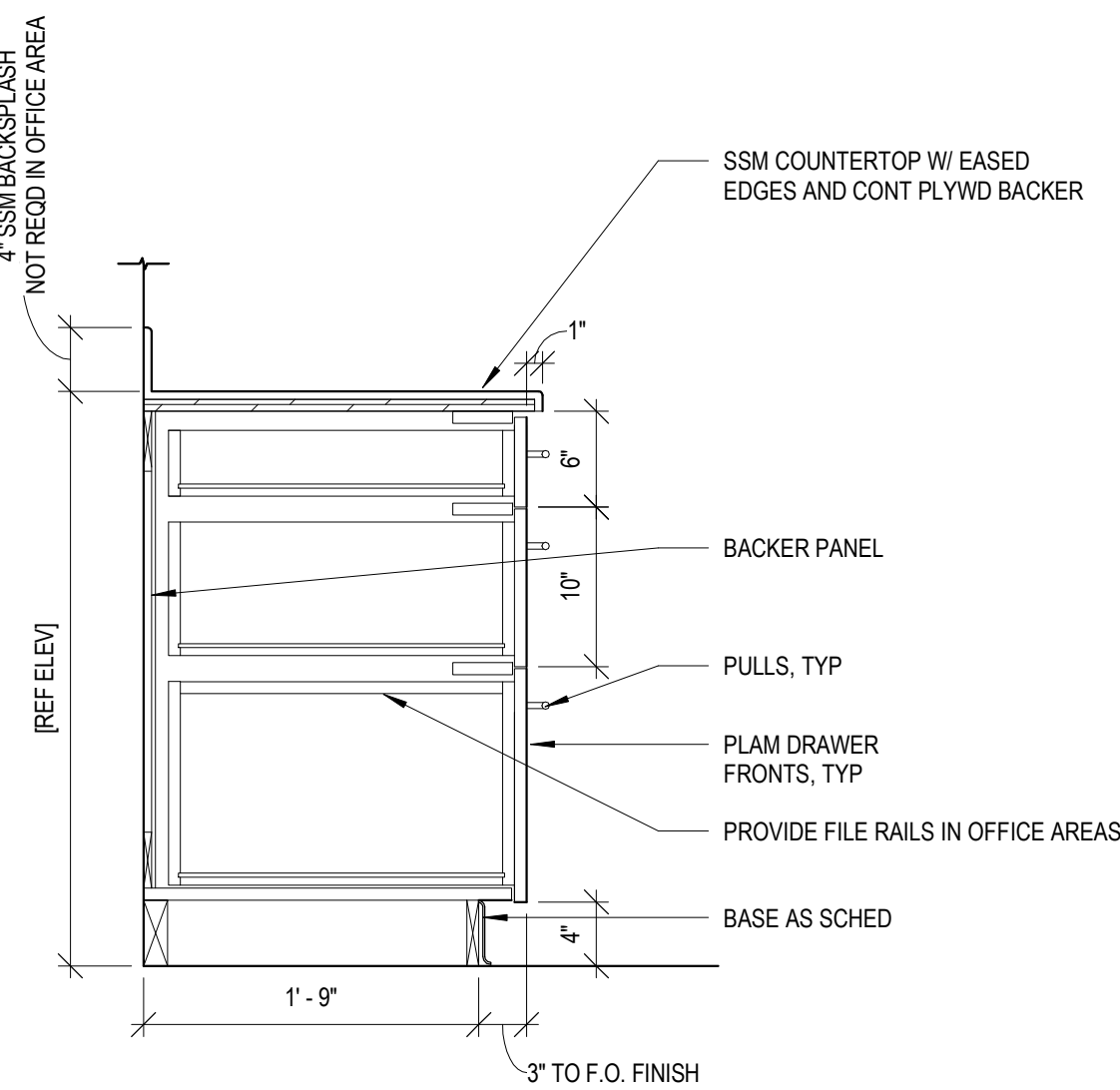
DATE: 2/25/2021

PROJECT #: 2072

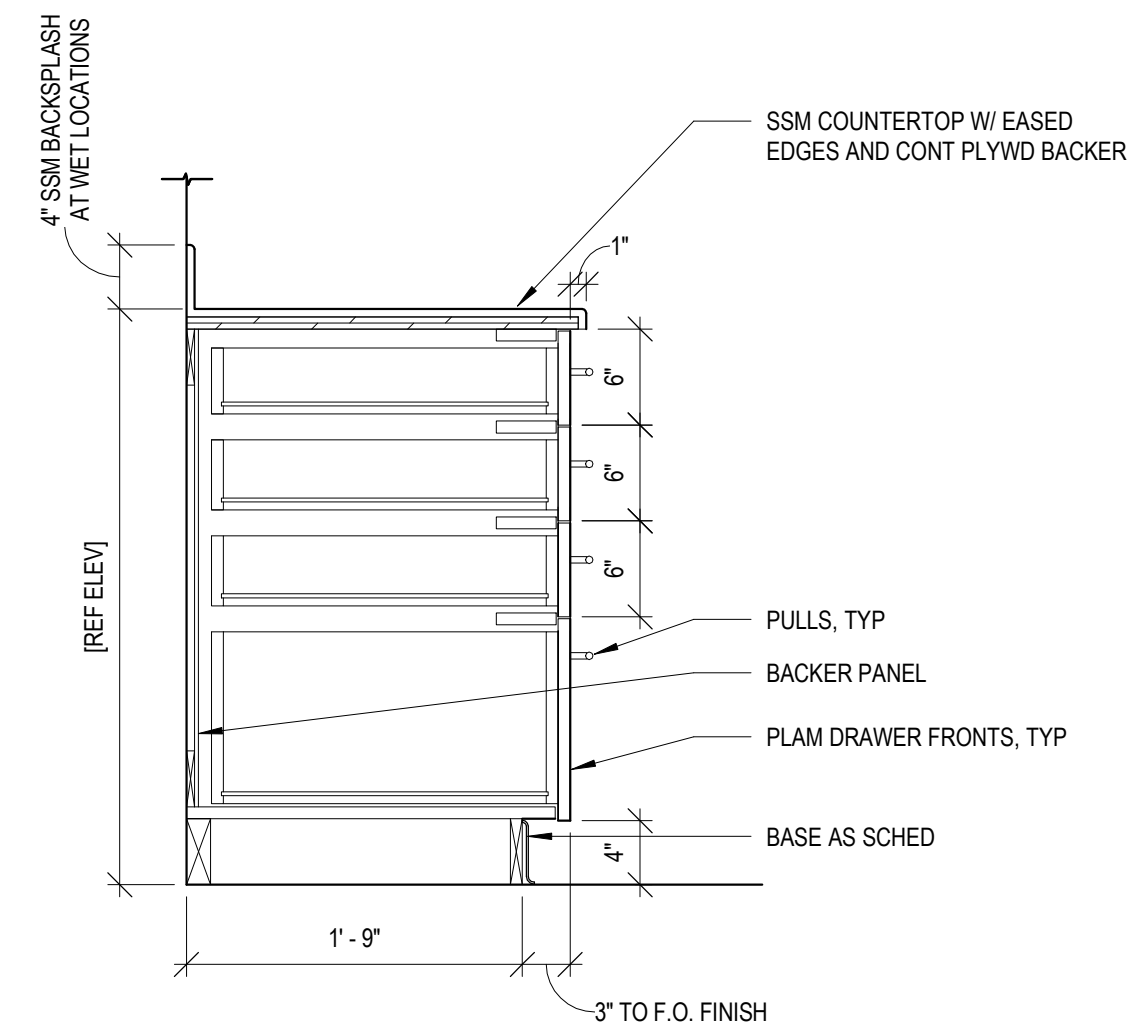
SHEET #:

A4-6

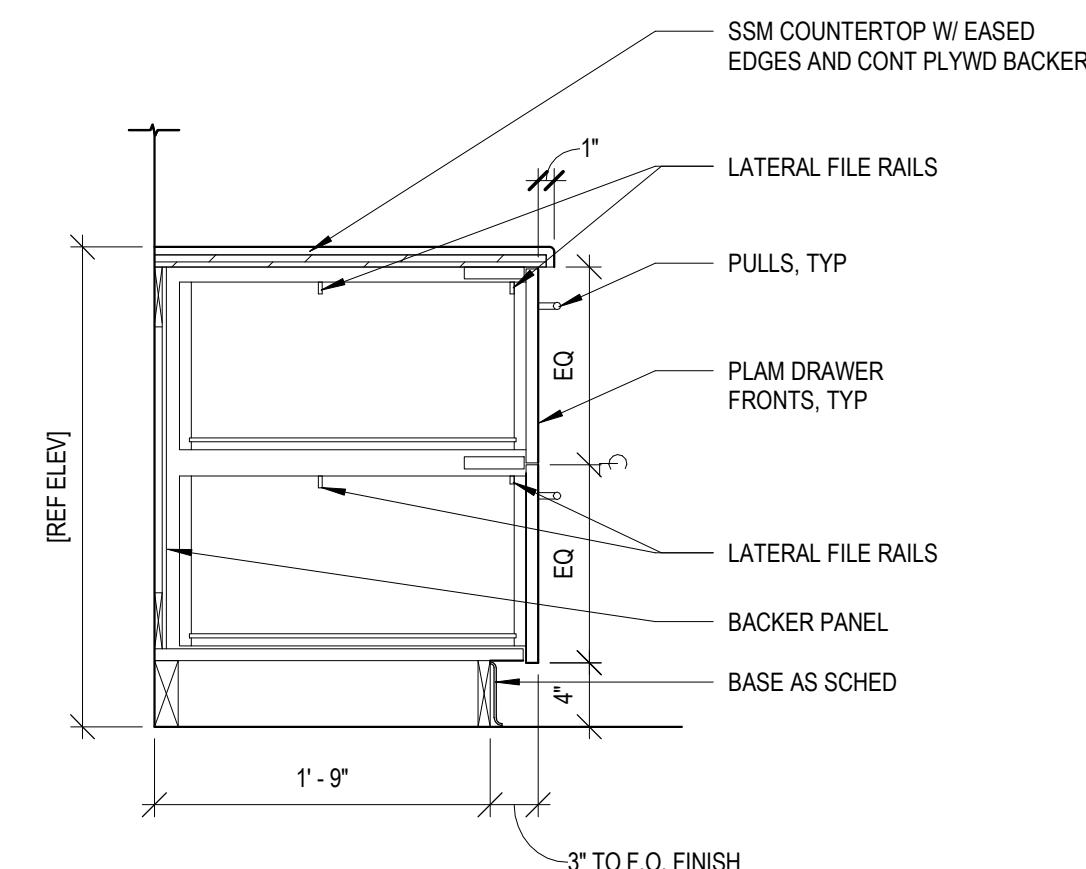




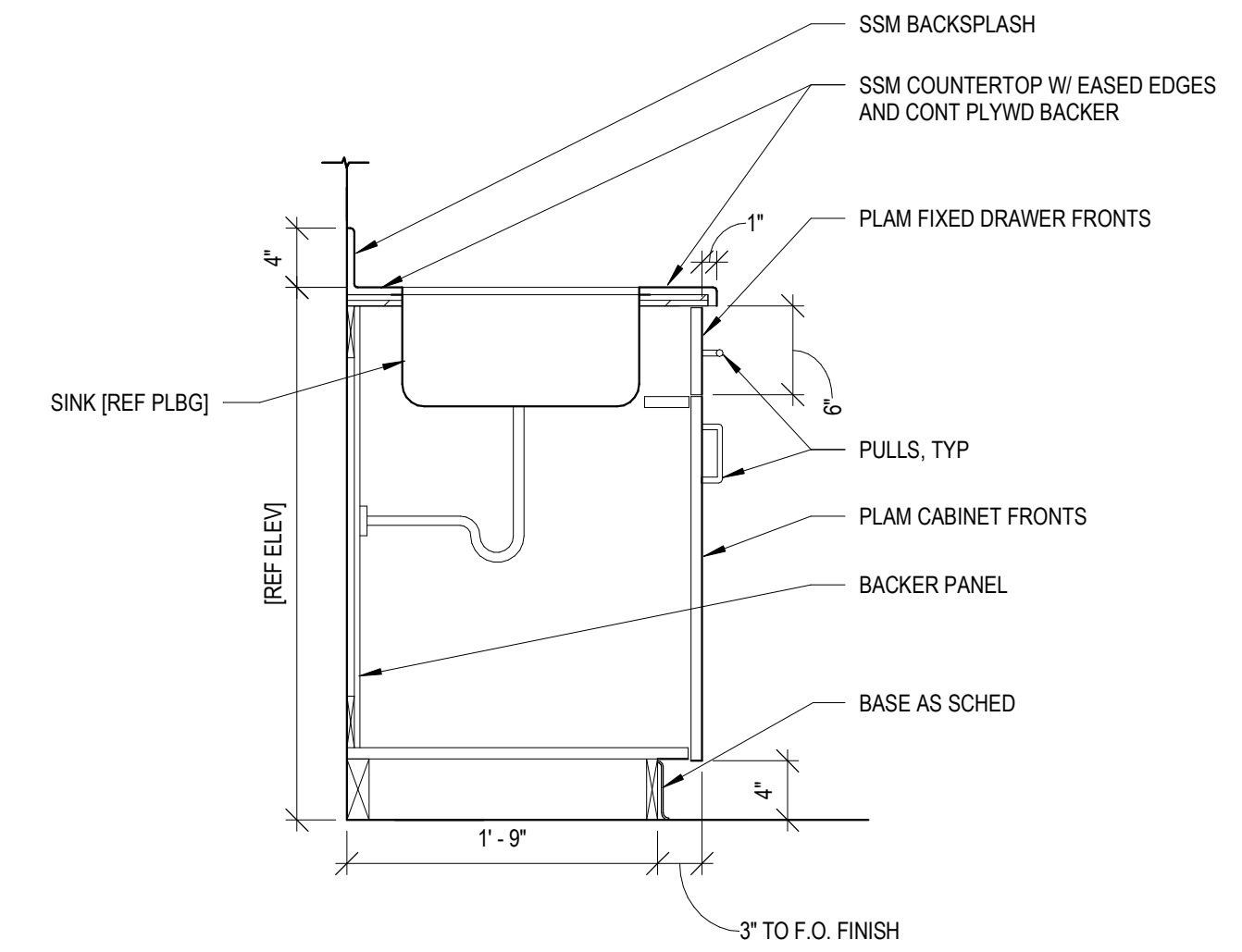
1 SECTION - CASEWORK
A4-8 1" = 1'-0"



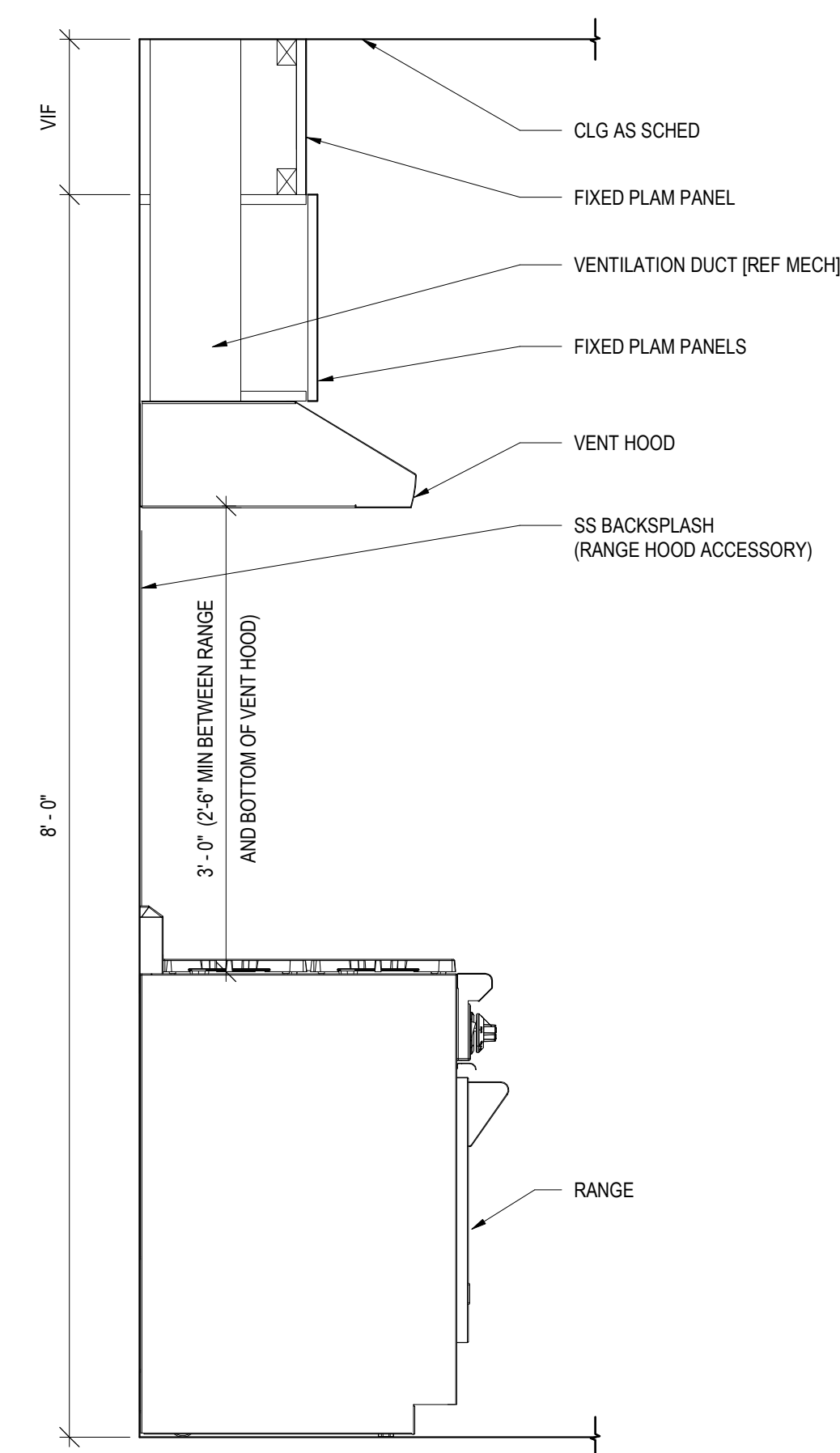
2 SECTION - CASEWORK
A4-8 1" = 1'-0"



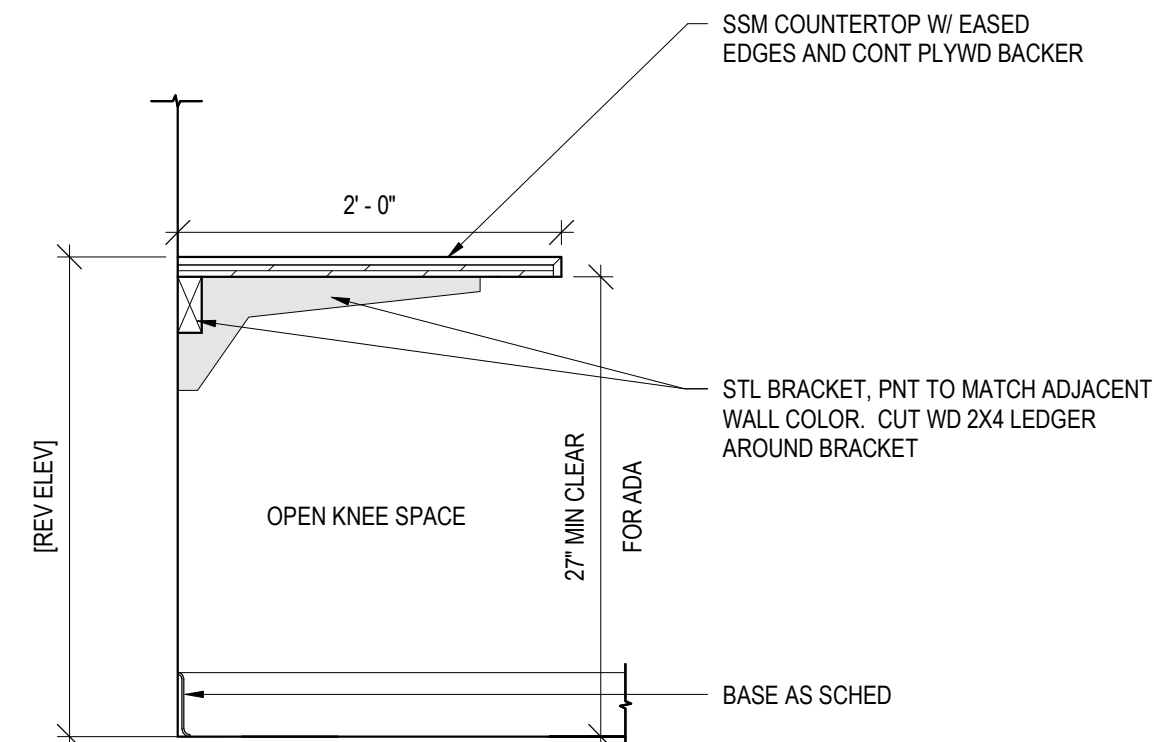
3 SECTION - CASEWORK
A4-8 1" = 1'-0"



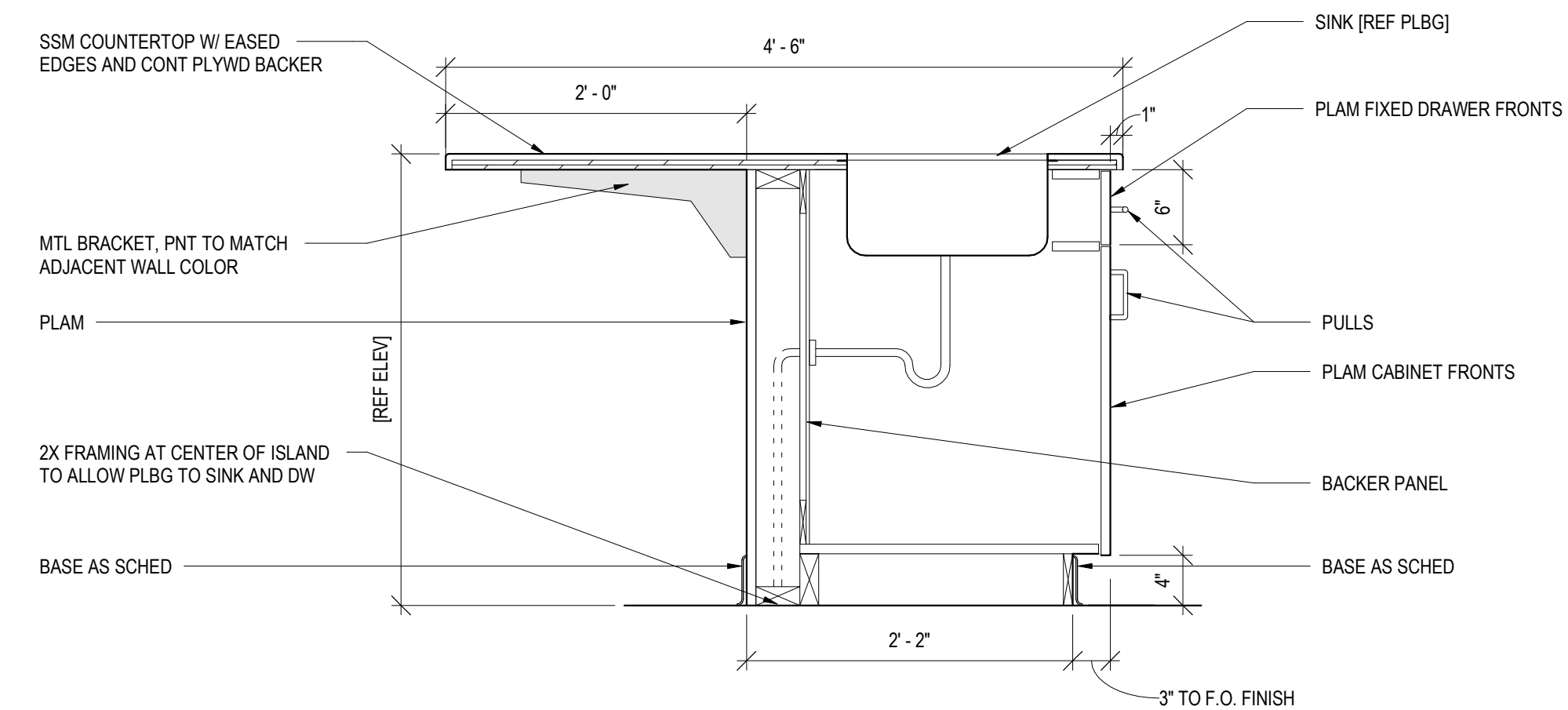
4 SECTION - CASEWORK
A4-8 1" = 1'-0"



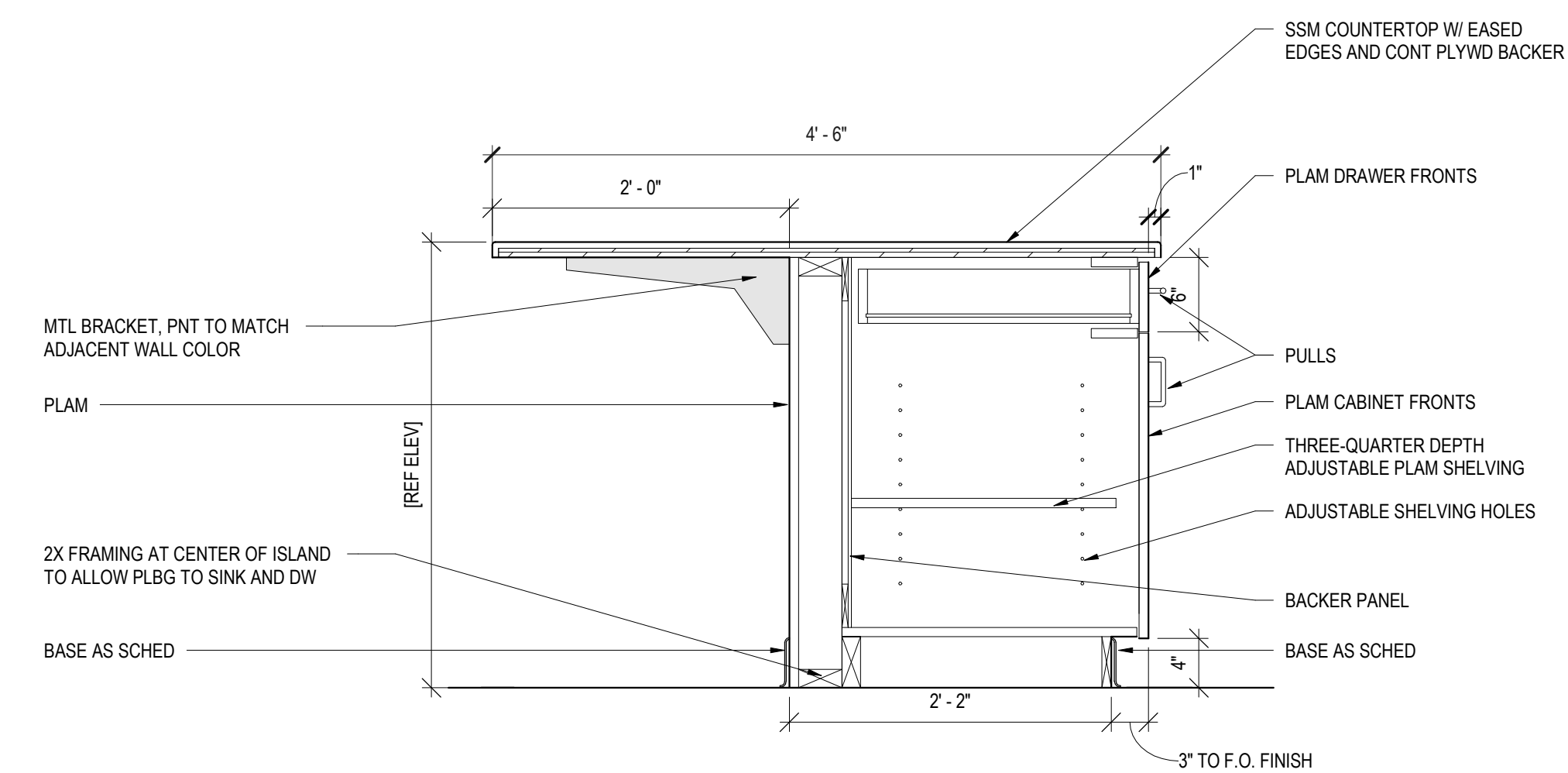
5 SECTION - CASEWORK
A4-8 1" = 1'-0"



6 SECTION - CASEWORK
A4-8 1" = 1'-0"



7 SECTION - CASEWORK
A4-8 1" = 1'-0"

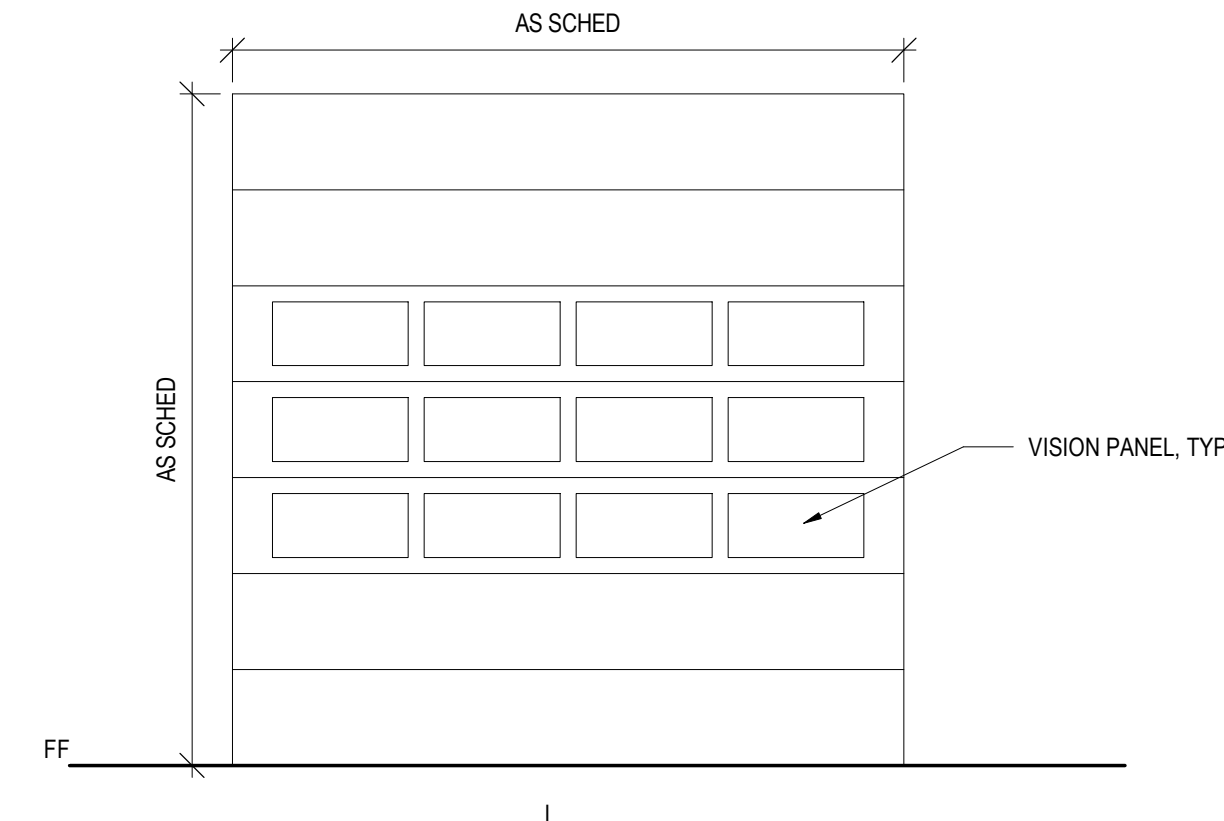
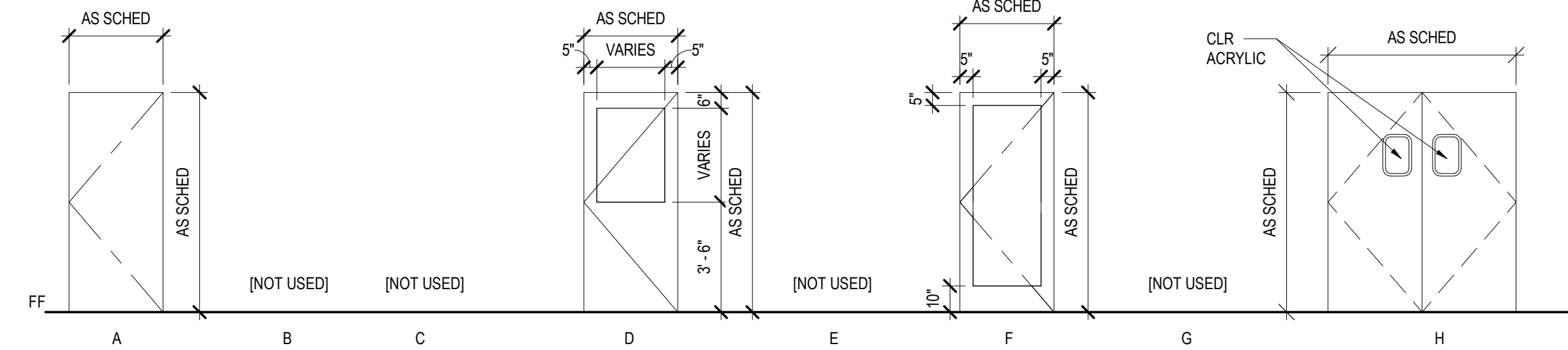


8 SECTION - CASEWORK
A4-8 1" = 1'-0"

DOOR SCHEDULE																	
DOOR NUMBER	DOOR SIZE		DOOR TYPE					RATING	HDW GROUP	FRAME TYPE					COMMENTS	SIGNAGE	
	WIDTH	HEIGHT	TYPE	MATL	GLAZING	FINISH	TYPE			MATL	FINISH	JAMB DETAIL	HEAD DETAIL	SILL / THRESHOLD		SIGN TYPE	TEXT
100	3'-0"	7'-0"	F	AL	GL-2	FF	--	AL-01	3	AL	FF	8/A5-3 SIM	3/A5-3	13/A5-4	1, 2	B	EXIT
101	3'-0"	7'-0"	F	WD	GL-4	FF	--	03	1	HM	PNT	1/A5-4	2/A5-4	--		C	OFFICE 101 (INSERT TBD)
103	3'-0"	7'-0"	A	WD	--	FF	--	03	1	HM	PNT	1/A5-4	2/A5-4	--			OFFICE 102/TRAINING (INSERT TBD)
103A	3'-0"	7'-0"	D	WD	GL-4	FF	--	06	1	HM	PNT	1/A5-4	2/A5-4	--			
103B	3'-0"	7'-0"	D	HM	GL-4	PNT	--	07	4	HM	PNT	8/A3-8	7/A3-8	14/A5-4			
104	3'-0"	7'-0"	A	WD	--	FF	--	04	1	HM	PNT	1/A5-4	2/A5-4	--		A	
107	3'-0"	7'-0"	F	AL	GL-2	FF	--	AL-02	4	AL	FF	8/A5-3	5/A5-4	13/A5-4	3		
109	3'-0"	7'-0"	A	HM	--	PNT	--	08	1	HM	PNT	1/A5-4	2/A5-4	--		B	EMS STORAGE 109
110	3'-0"	7'-0"	D	WD	GL-4	FF	--	06	1	HM	PNT	1/A5-4	2/A5-4	--			
110A	3'-0"	7'-0"	D	HM	GL-4	PNT	--	07	4	HM	PNT	8/A3-8	7/A3-8	14/A5-4			
111	3'-0"	7'-0"	A	HM	--	PNT	--	10	1	HM	PNT	1/A5-4	2/A5-4	--	1, 2	B	IT/AV ROOM 111
112	3'-0"	7'-0"	A	WD	--	FF	--	05	1	HM	PNT	1/A5-4	2/A5-4	--		B	PANTRY 112
113	3'-0"	7'-0"	A	WD	--	FF	--	04	1	HM	PNT	1/A5-4	2/A5-4	--		B	SHOWER AND TOILET ROOM 113
114	3'-0"	7'-0"	A	WD	--	FF	--	04	1	HM	PNT	1/A5-4	2/A5-4	--		B	SHOWER AND TOILET ROOM 114
115	3'-0"	7'-0"	A	WD	--	FF	--	04	1	HM	PNT	1/A5-4	2/A5-4	--		B	SHOWER AND TOILET ROOM 115
116	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
117	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
118	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
119	3'-0"	7'-0"	A	WD	--	FF	--	05	1	HM	PNT	1/A5-4	2/A5-4	--		B	LAUNDRY 119
120	3'-0"	7'-0"	D	HM	GL-2	PNT	--	01	4	HM	PNT	6/A5-4	5/A5-4	14/A5-4	1, 2	B	EXIT
121	3'-0"	7'-0"	D	HM	GL-2	PNT	--	01	4	HM	PNT	6/A5-4	5/A5-4	14/A5-4	1, 2	B	EXIT
121A	3'-0"	7'-0"	A	WD	--	FF	--	06	1	HM	PNT	1/A5-4	2/A5-4	--			
122	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
123	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
124	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
125	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
126	3'-0"	7'-0"	A	WD	--	FF	--	12	1	HM	PNT	1/A5-4	2/A5-4	--			
127	3'-0"	7'-0"	D	WD	GL-4	FF	--	06	1	HM	PNT	1/A5-4	2/A5-4	--			
127A	3'-0"	7'-0"	D	HM	GL-4	PNT	--	07	4	HM	PNT	8/A3-8	7/A3-8	14/A5-4			
128	3'-0"	7'-0"	A	HM	--	PNT	--	11	1	HM	PNT	1/A5-4	2/A5-4	--		B	MECHANICAL ROOM 128
129	6'-0"	7'-0"	A	HM	--	PNT	--	09	5	HM	PNT	3/A5-4	4/A5-4	--	8	B	ELECTRICAL ROOM 129
130	16'-0"	12'-8"	I	STL	GL-5	FF	--	14	--	STL	FF	3/A3-6	8/A3-5	--	2, 4		
130A	16'-0"	12'-8"	I	STL	GL-5	FF	--	14	--	STL	FF	3/A3-6	4/A3-6	--	2, 4		
130B	3'-0"	7'-0"	D	HM	GL-2	PNT	--	01	4	HM	PNT	7/A5-4	8/A5-4	14/A5-4	1, 2	B	EXIT
131	16'-0"	12'-8"	I	STL	GL-5	FF	--	14	--	STL	FF	3/A3-6	8/A3-5	--	2, 4		
131A	16'-0"	12'-8"	I	STL	GL-5	FF	--	14	--	STL	FF	3/A3-6	4/A3-6	--	2, 4		
132	16'-0"	12'-8"	I	STL	GL-5	FF	--	14	--	STL	FF	3/A3-6	8/A3-5	--	2, 4		
132A	16'-0"	12'-8"	I	STL	GL-5	FF	--	14	--	STL	FF	3/A3-6	4/A3-6	--	2, 4		
133	6'-0"	7'-0"	D	HM	GL-4	PNT	--	AL-03	5	HM	PNT	3/A5-4	4/A5-4	--	8		
134	6'-0"	7'-4"	H	WD/SS	ACRYLIC	FF	--	13	--	--	PER MFR	PER MFR	--	7, 8			
136	6'-0"	7'-0"	A	HM	--	PNT	--	02	5	HM	PNT	7/A5-4	8/A5-4 SIM	14/A5-4	8	B	EXIT
136A	3'-0"	7'-0"	A	HM	--	PNT	--	05	4	HM	PNT	3/A5-4	4/A5-4	--			
200	3'-0"	4'-4"	A	HM	--	PNT	--	11A	1 SIM	HM	PNT	11/A3-8 SIM	11/A3-8	12/A3-8	6		
203	6'-8"	3'-8"	A	HM	--	PNT	--	02A	1 SIM	HM	PNT	10/A3-8 SIM	10/A3-8	2/A3-6	6, 9		

DOOR TYPES

1/4" = 1'-0"



DOOR SCHEDULE GENERAL NOTES

1. FRAME ELEVATIONS INDICATED ARE BASED UPON NOMINAL DIMENSIONS. FIELD VERIFY DIMENSIONS OF ACTUAL ROUGH OPENINGS.
2. ALL INTERIOR EXPOSED STEEL LINTELS ARE TO BE PAINTED TO MATCH ADJACENT WALL FINISH - REFERENCE ROOM FINISH SCHEDULE.
3. ALL GLAZING IS TO BE TYPE GL-2, UNO.
4. FOR HOLLOW METAL DOORS AND FRAMES COLOR, REFER TO INTERIOR COLOR SCHEDULE AND EXTERIOR COLOR SCHEDULE.

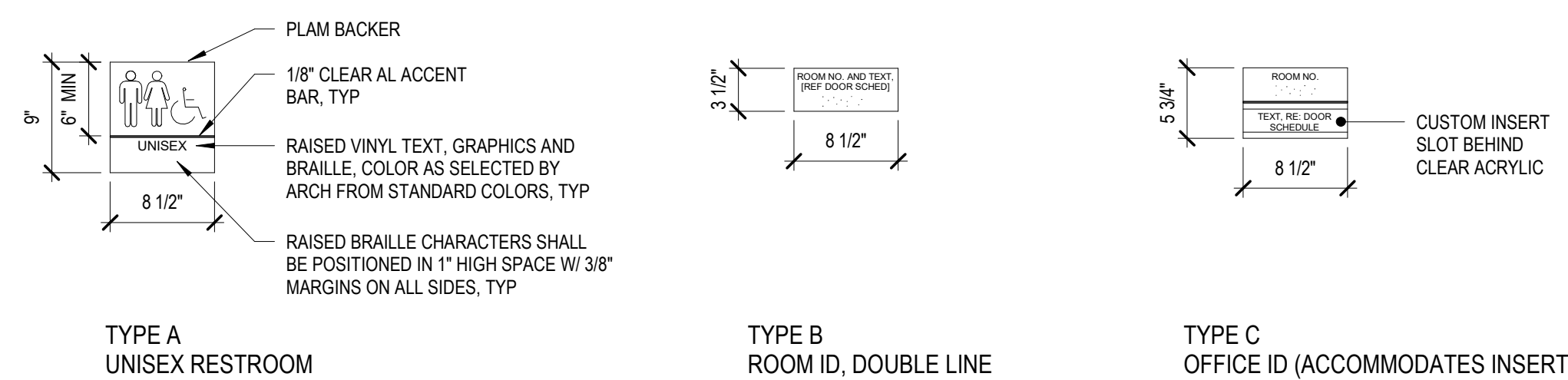
DOOR SCHEDULE ABBREVIATIONS

- AL ALUMINUM
- EX EXISTING
- FF FACTORY FINISH
- GL GLAZING
- HM HOLLOW METAL
- PNT PAINT
- SS STAINLESS STEEL
- STL STEEL
- WD WOOD

DOOR SCHEDULE COMMENTS

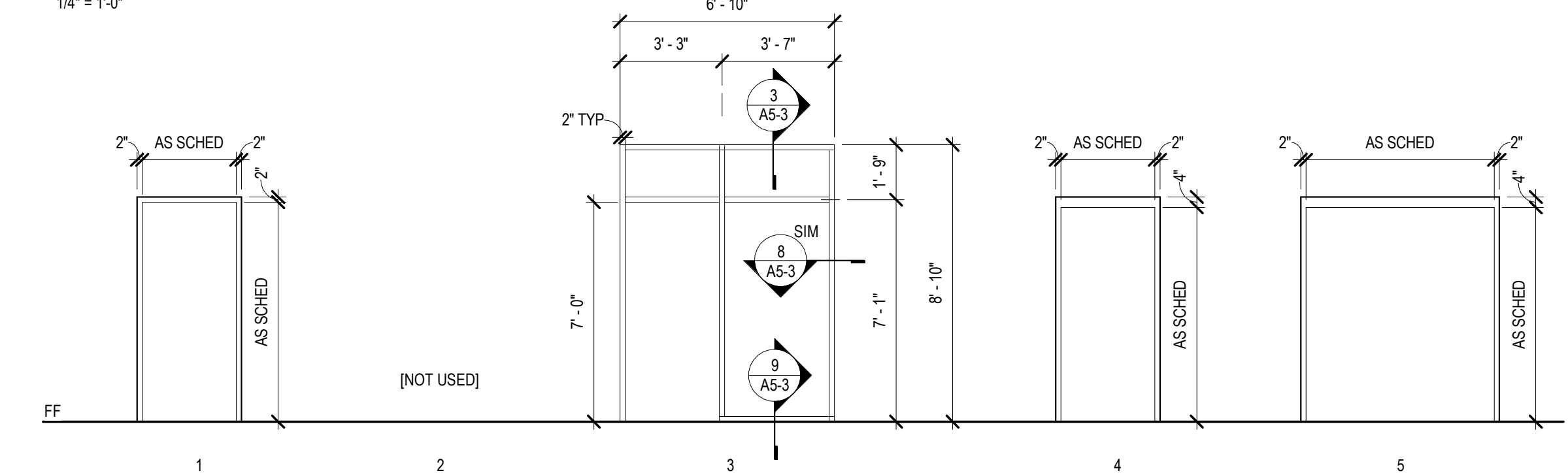
1. PROVIDE ELECTRONIC POSITION MONITORING
2. ELECTRONIC DOOR ACCESS DEVICE
3. REFLECTIVE FILM ON GLASS TO PREVENT VISION INTO BUILDING
4. OVERHEAD SECTIONAL DOOR WITH GLASS
5. STC-45 ACOUSTICAL DOOR
6. PARTIAL HEIGHT ACCESS DOOR, 4-SIDED FRAME
7. ELASON METAL/ STAINLESS STEEL/ BRUSHED
8. 6'-0" DOOR SIZE WIDTH IS EQUAL TO A PAIR OF 3'-0" DOOR LEAVES
9. 6'-8" DOOR SIZE WIDTH IS EQUAL TO A PAIR OF 3'-4" DOOR LEAVES

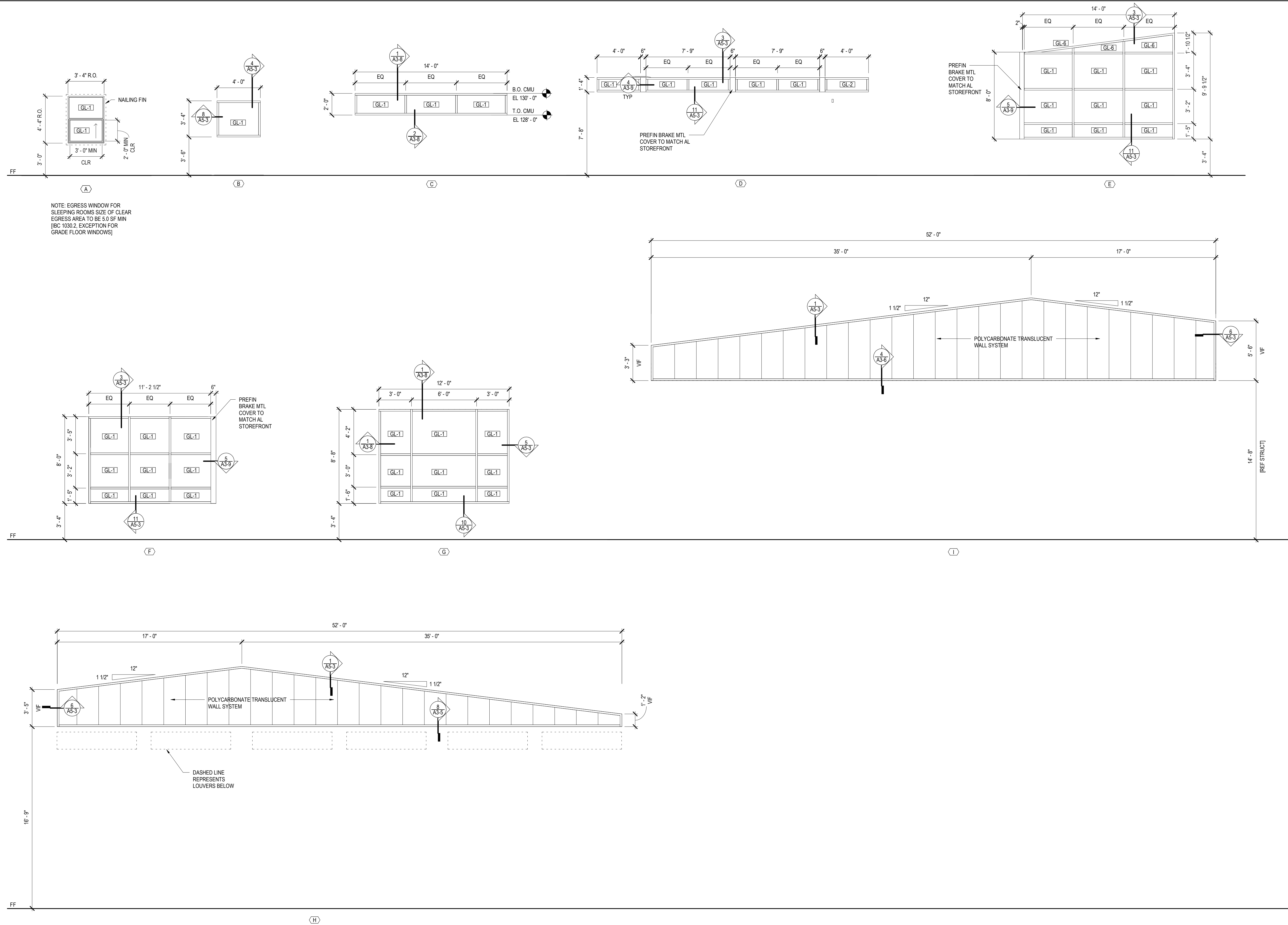
SIGNAGE TYPES



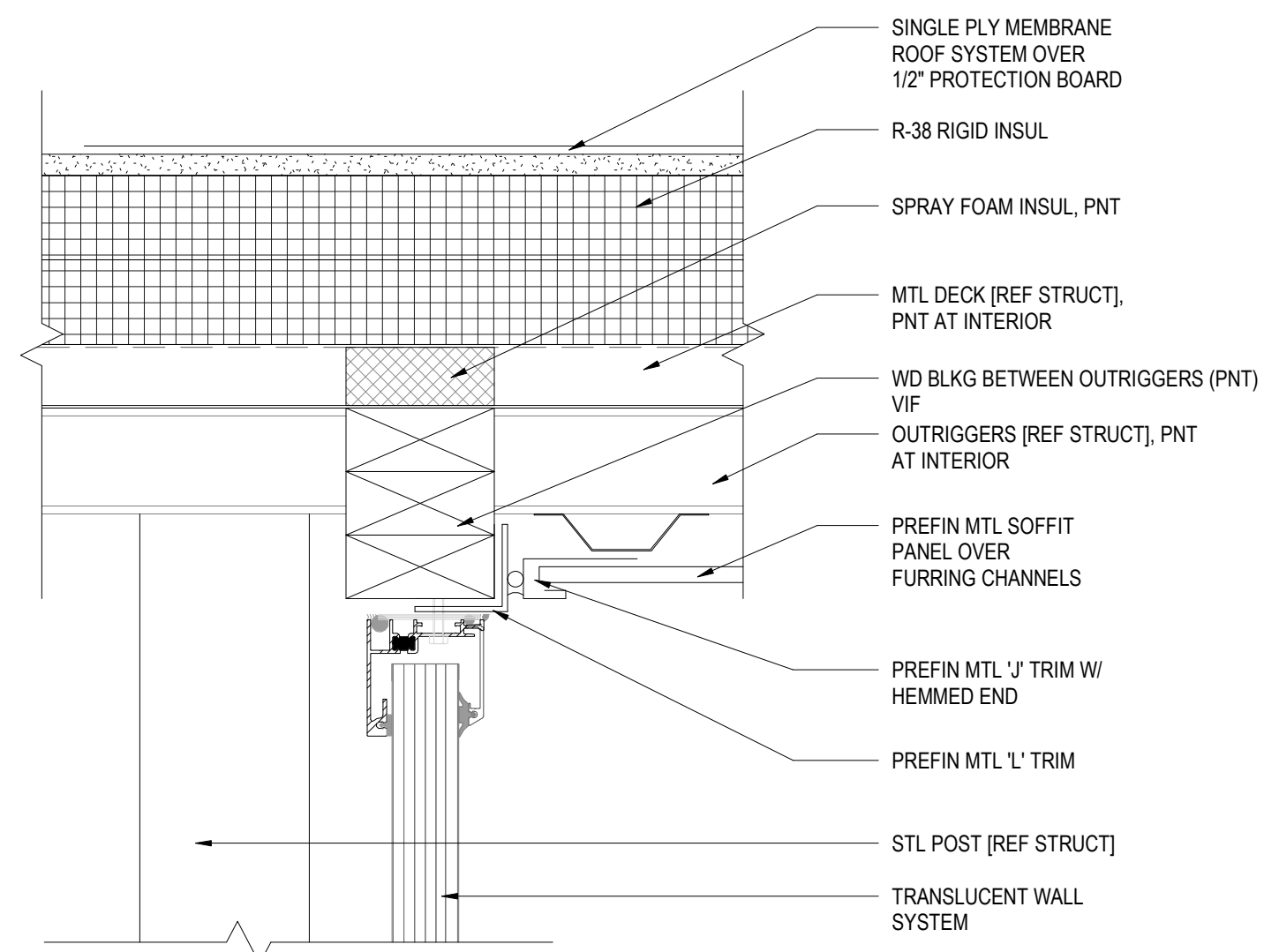
FRAME TYPES

1/4" = 1'-0"

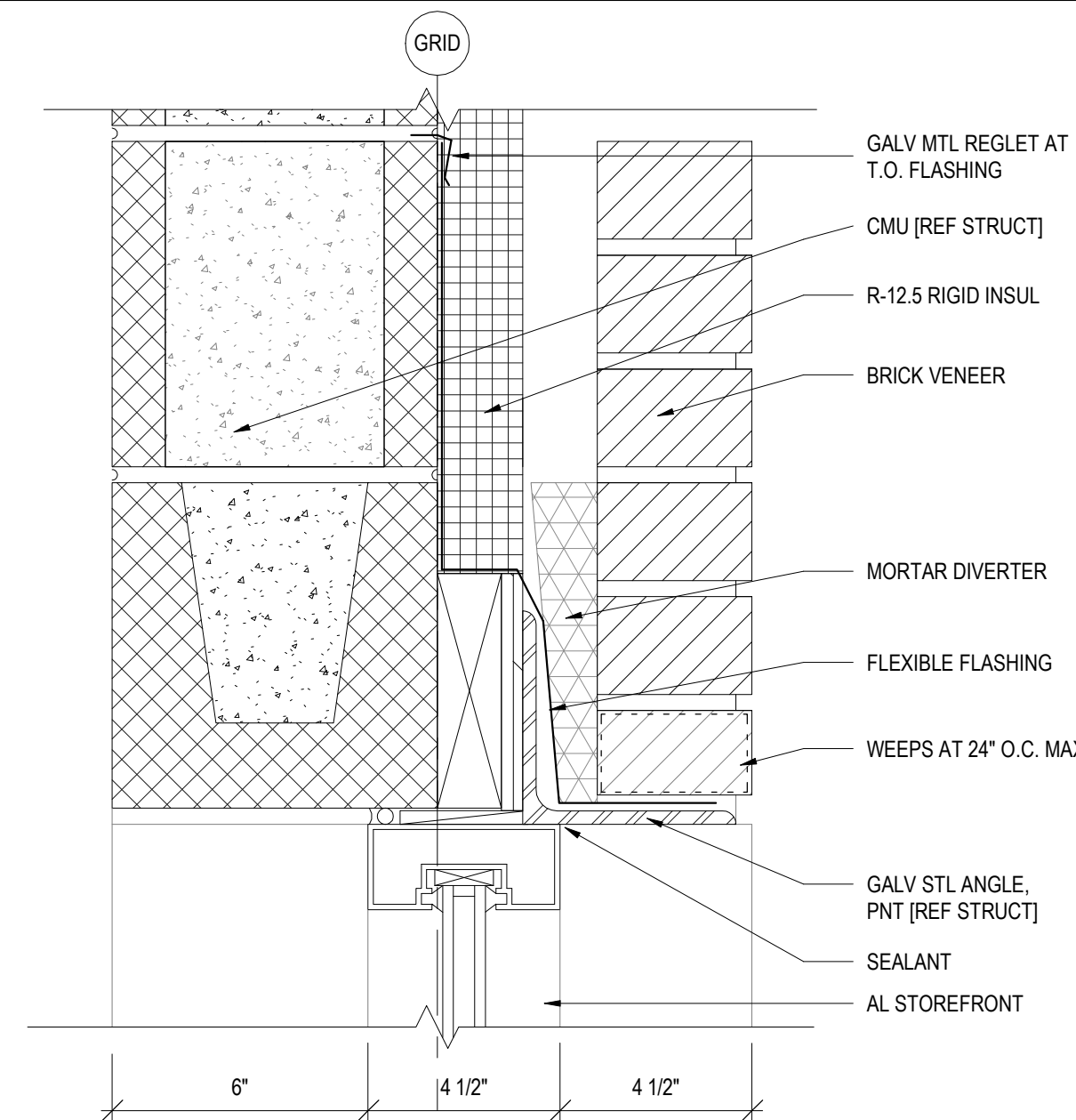




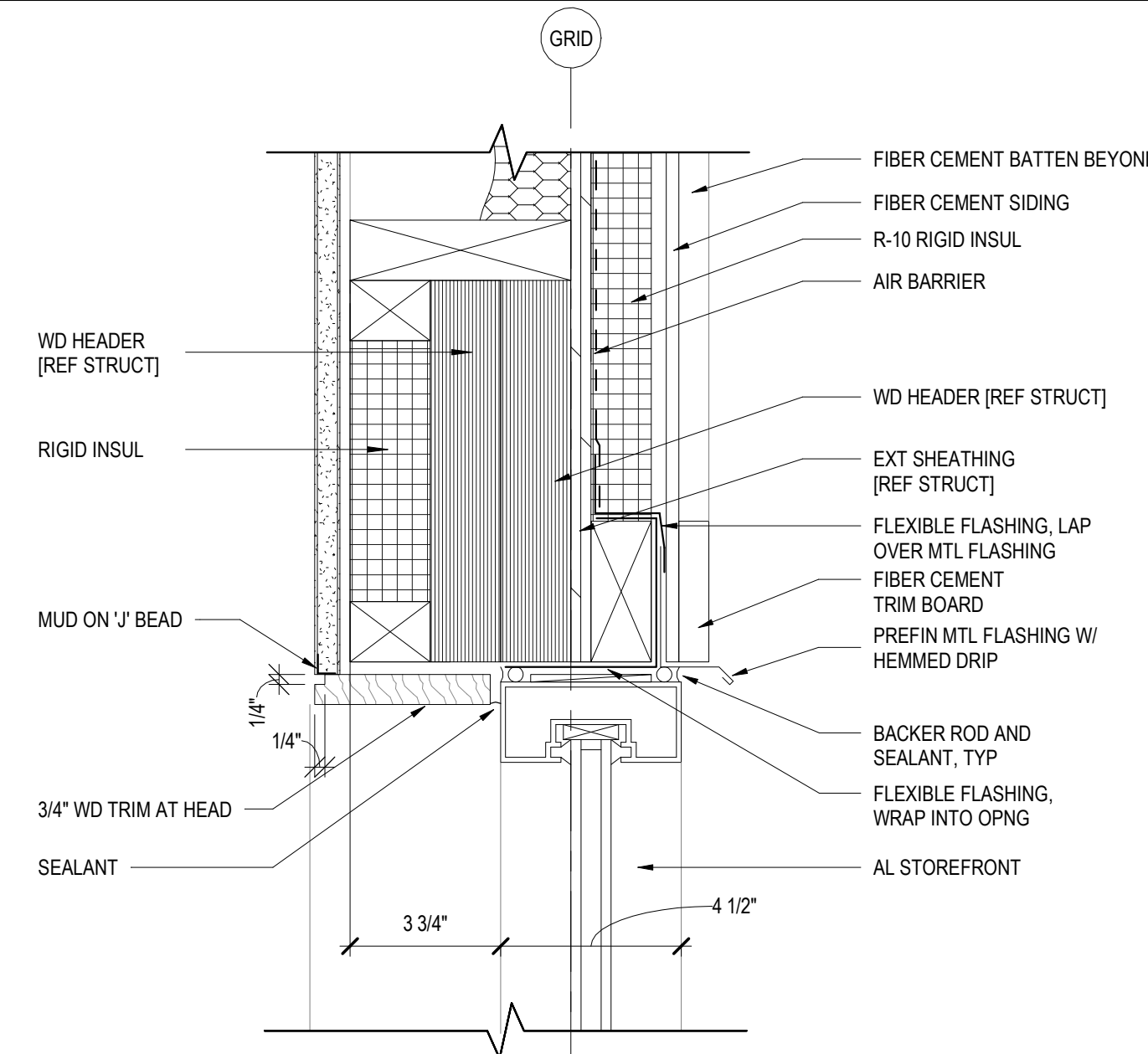
NOTE: EGRESS WINDOW FOR SLEEPING ROOMS SIZE OF CLEAR EGRESS AREA TO BE 5.0 SF MIN (IBC 1030.2, EXCEPTION FOR GRADE FLOOR WINDOWS)



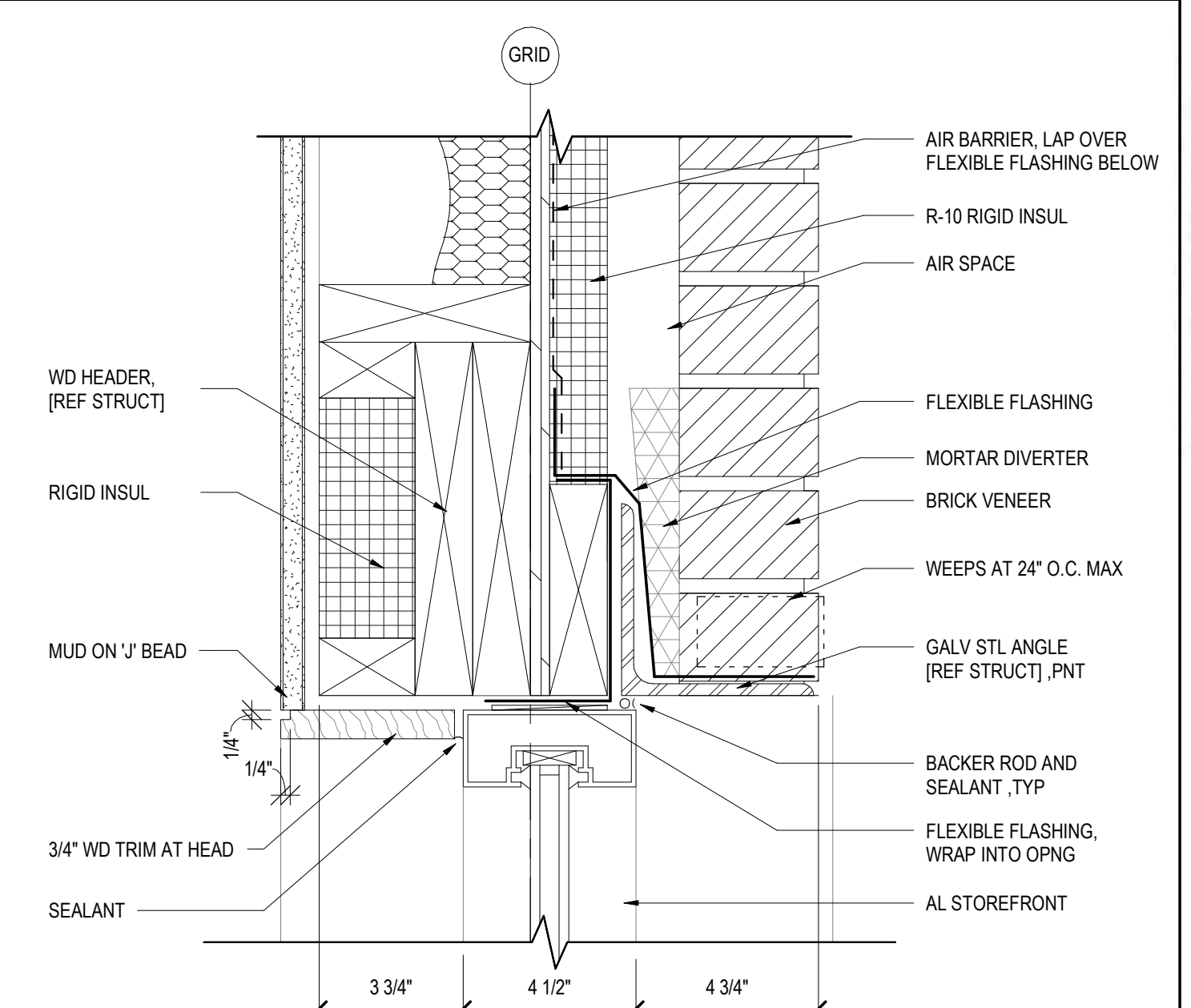
1 WINDOW HEAD AT TRANSLUCENT WINDOW
A5-3 3' = 1'-0"



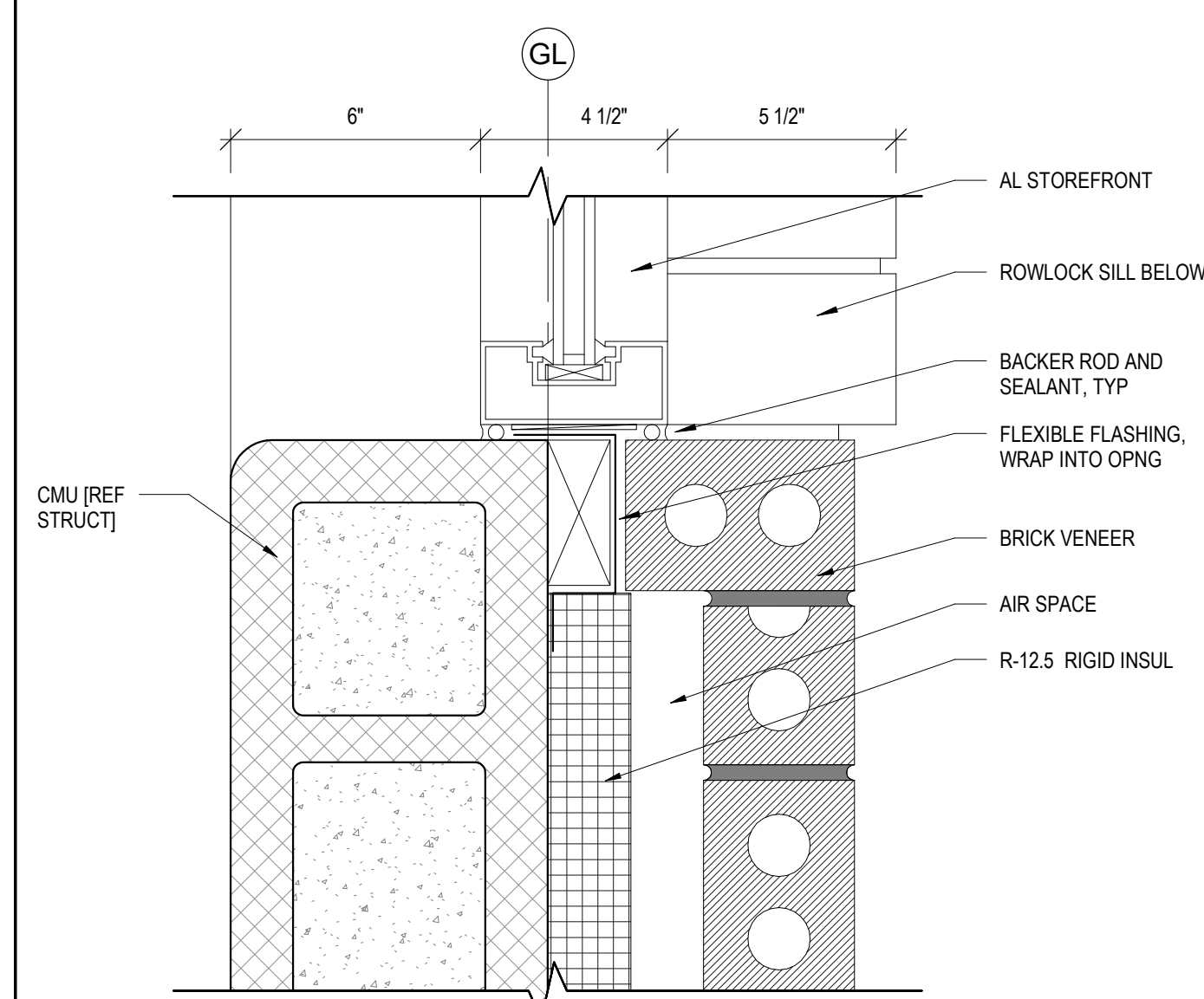
2 WINDOW HEAD AT CMU/BRICK
A5-3 3' = 1'-0"



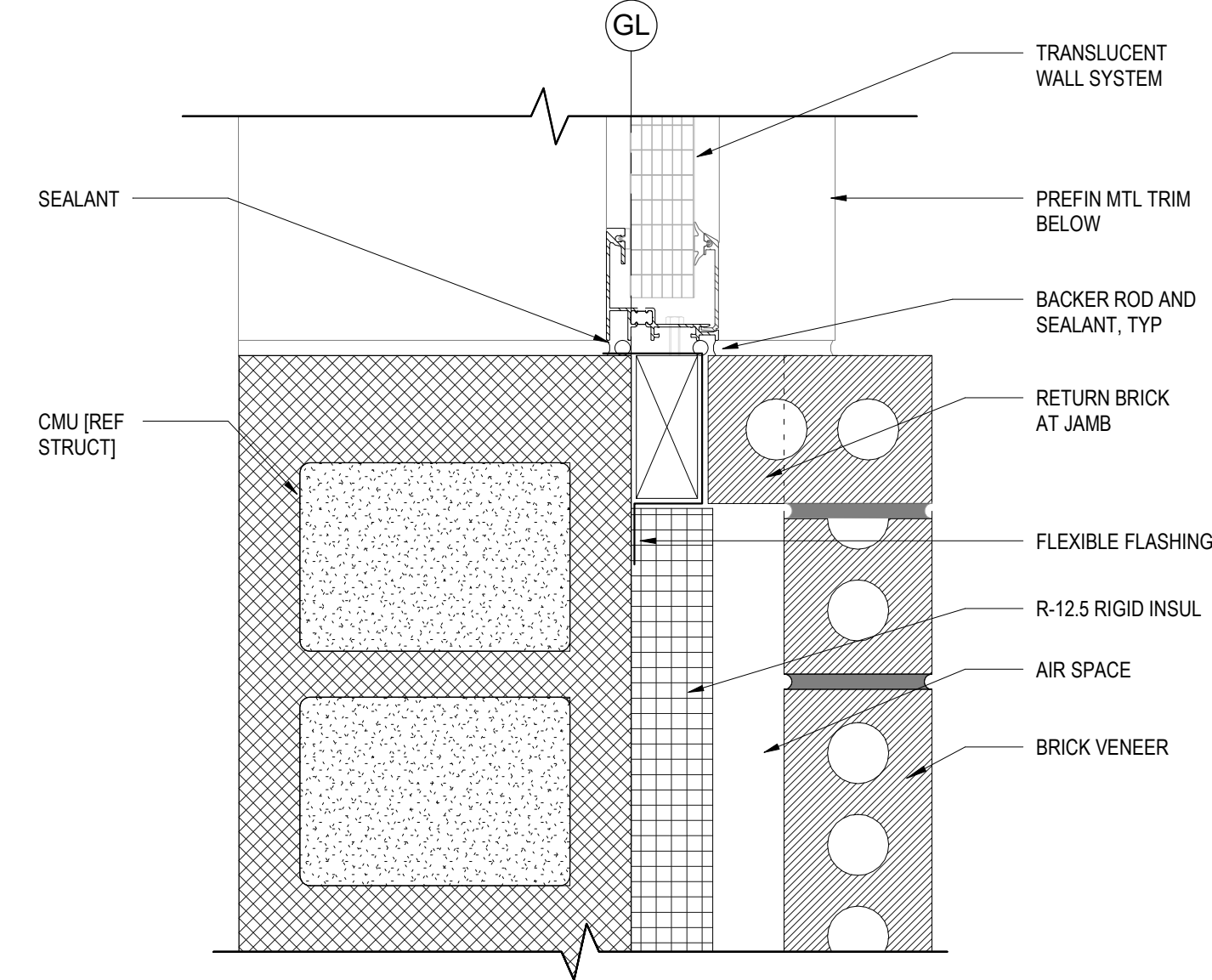
3 WINDOW HEAD AT FIBER CEMENT SIDING
A5-3 3' = 1'-0"



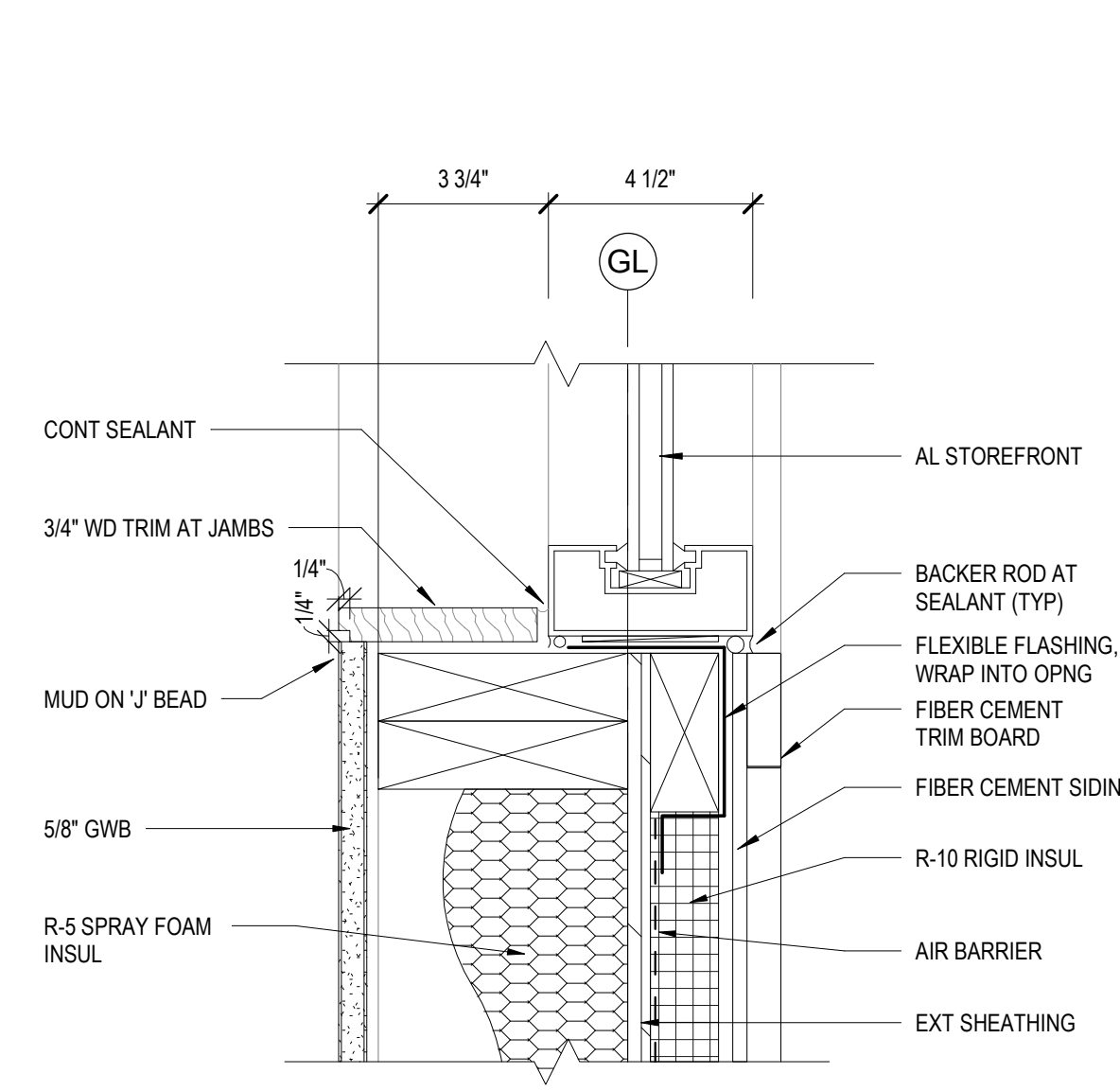
4 WINDOW HEAD AT BRICK
A5-3 3' = 1'-0"



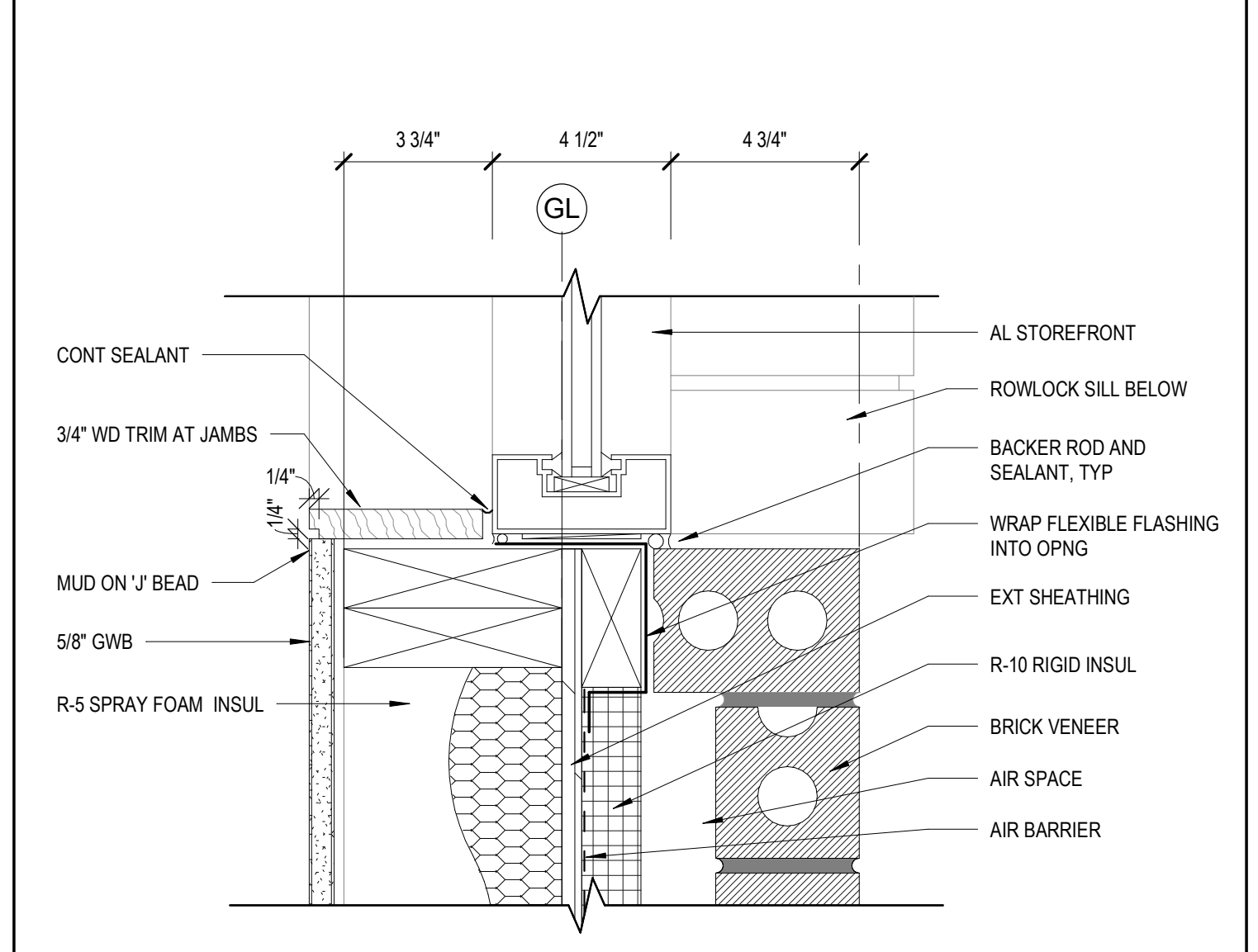
5 WINDOW JAMB DETAIL
A5-3 3' = 1'-0"



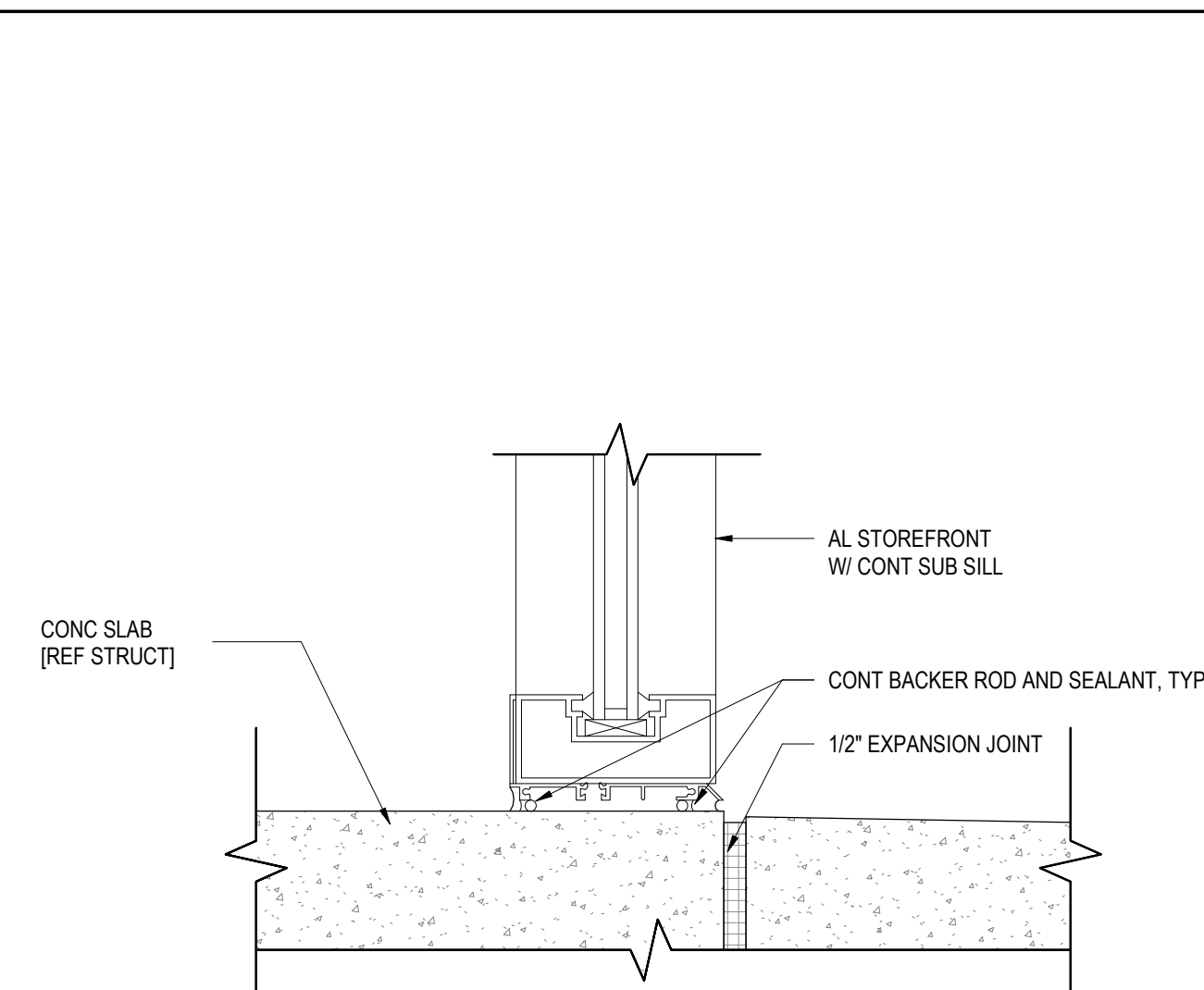
6 WINDOW JAMB AT TRANSLUCENT WINDOW
A5-3 3' = 1'-0"



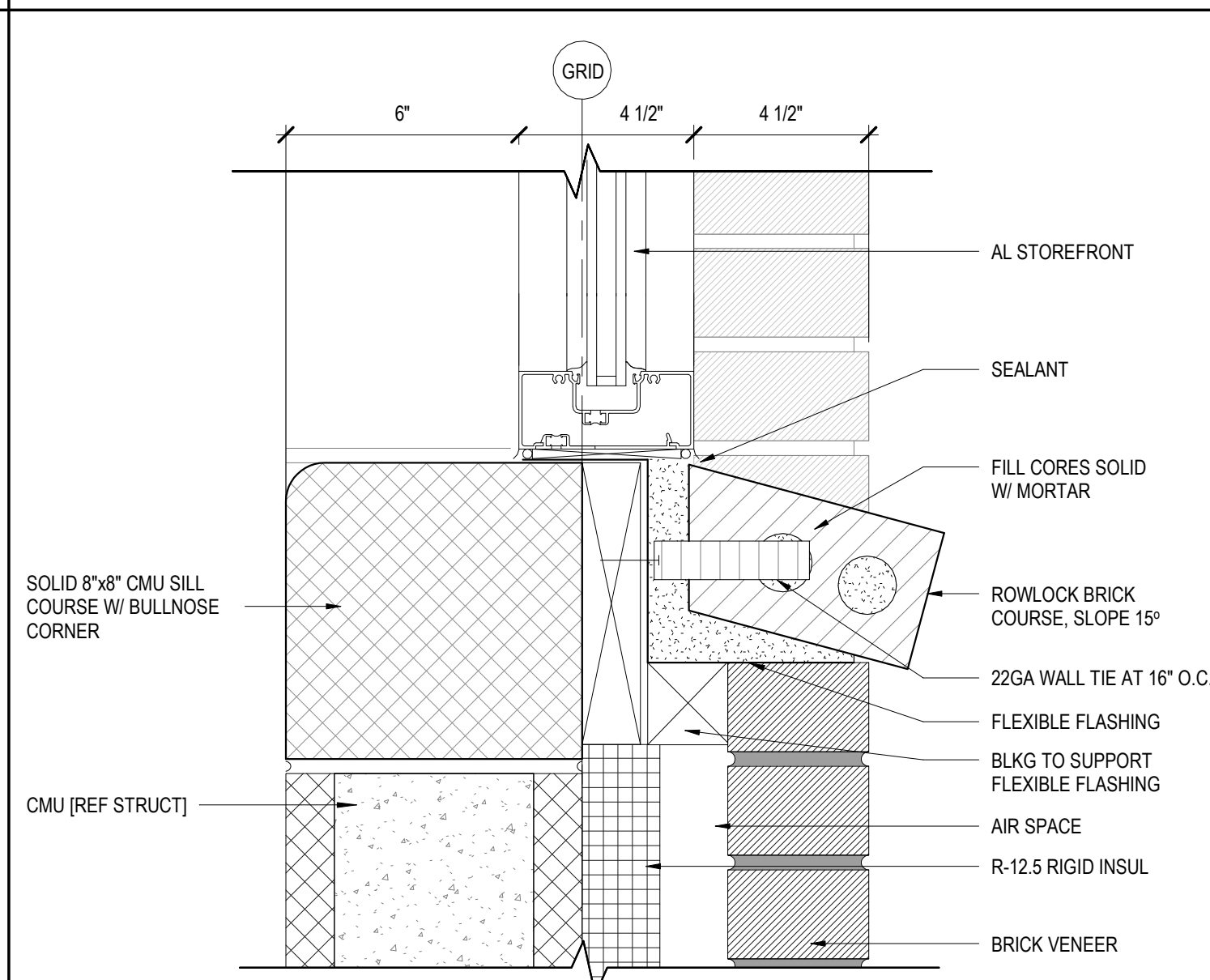
7 WINDOW JAMB AT FIBER CEMENT SIDING
A5-3 3' = 1'-0"



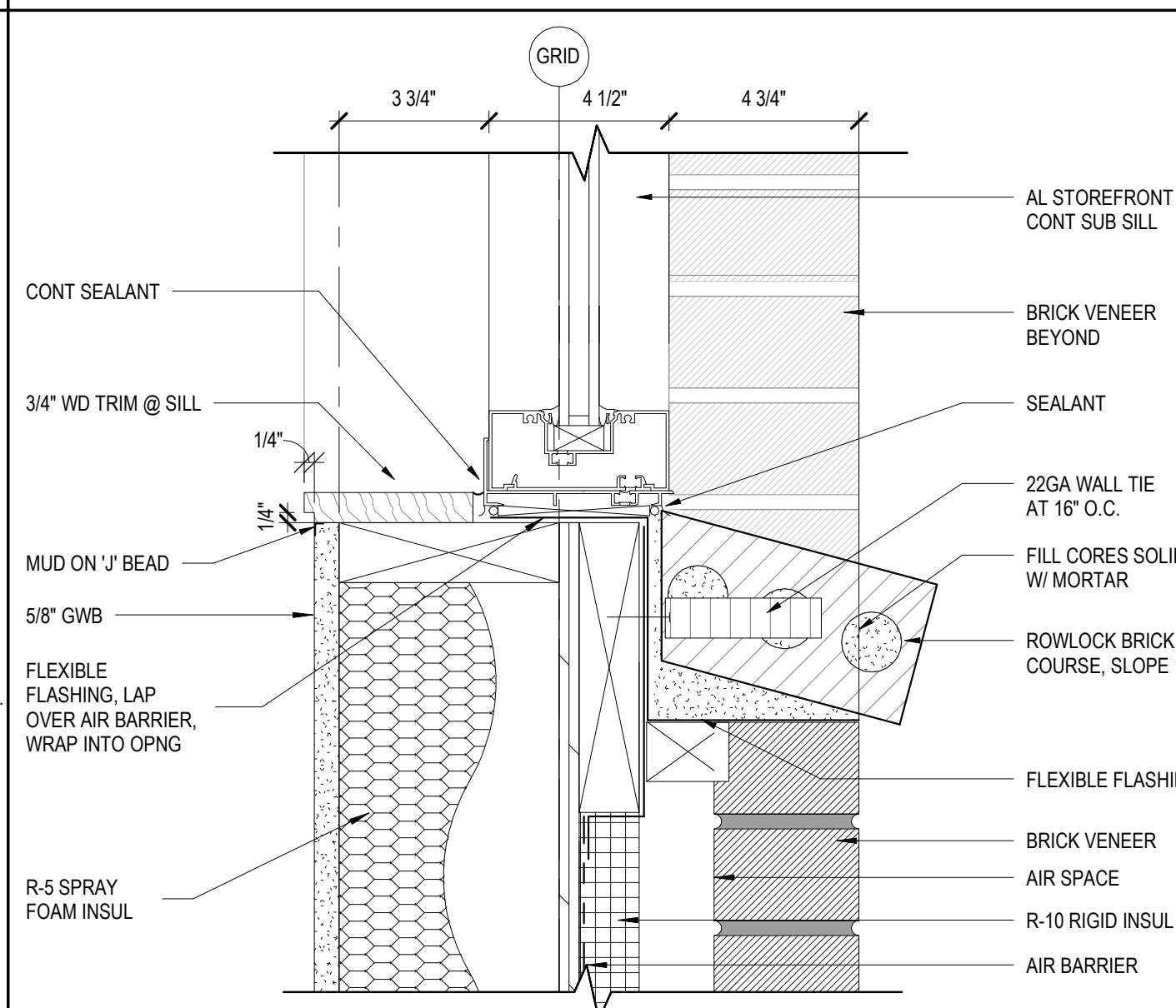
8 WINDOW JAMB AT BRICK
A5-3 3' = 1'-0"



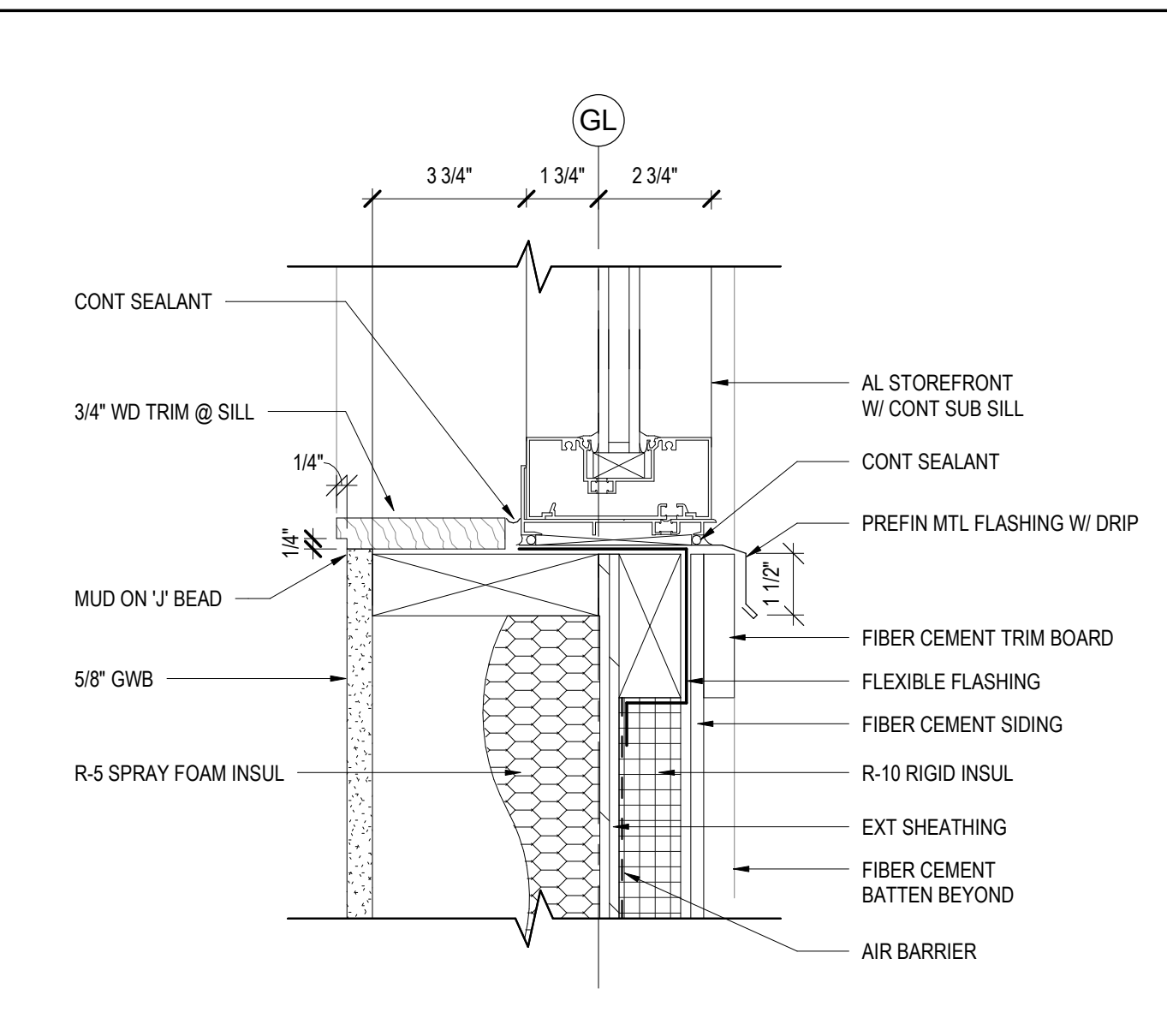
9 DETAIL
A5-3 3' = 1'-0"



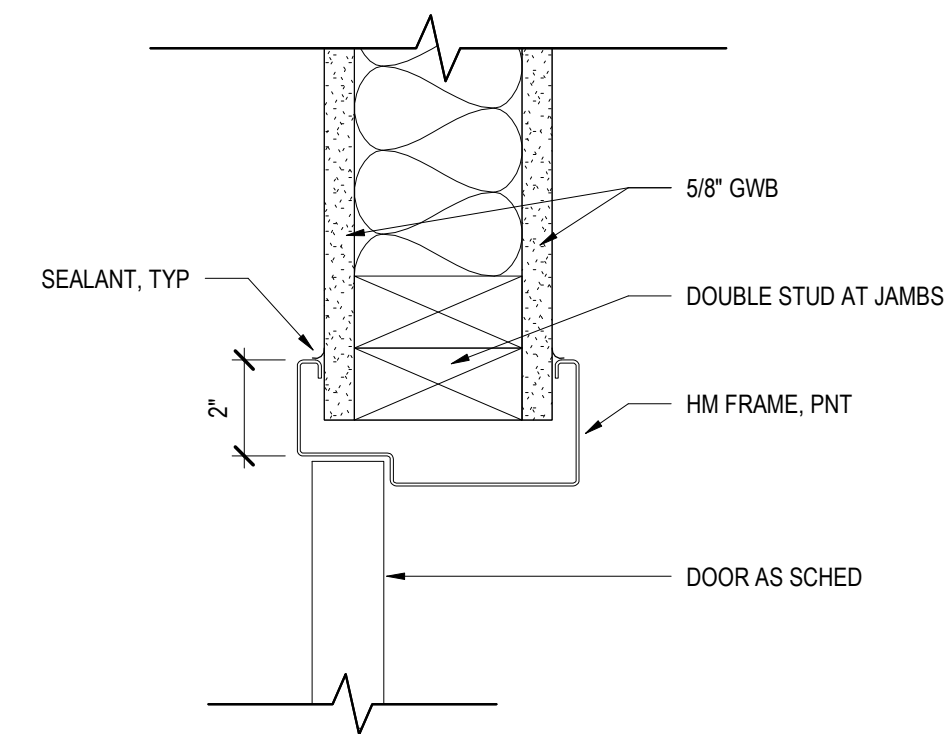
10 WINDOW SILL
A5-3 3' = 1'-0"



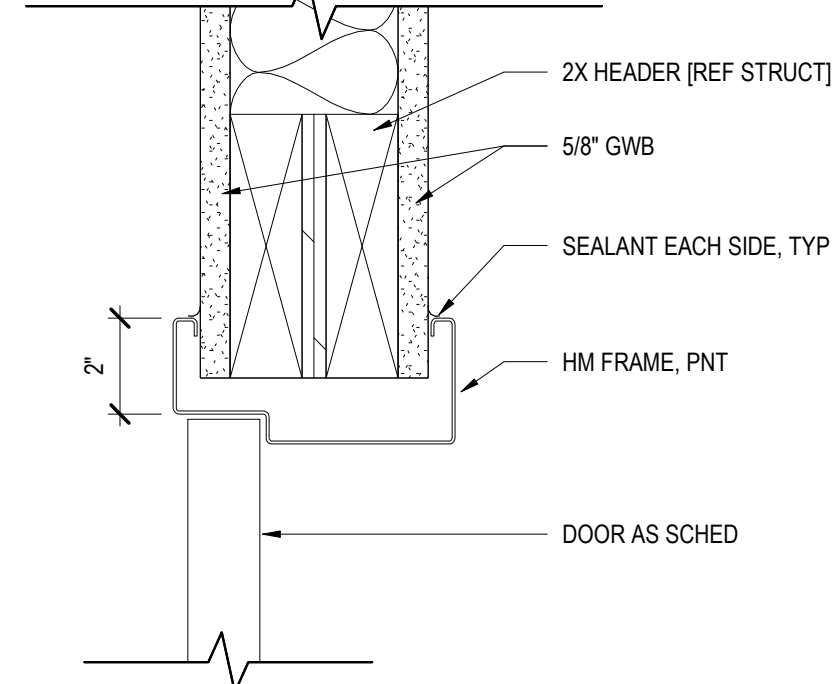
11 WINDOW SILL AT BRICK
A5-3 3' = 1'-0"



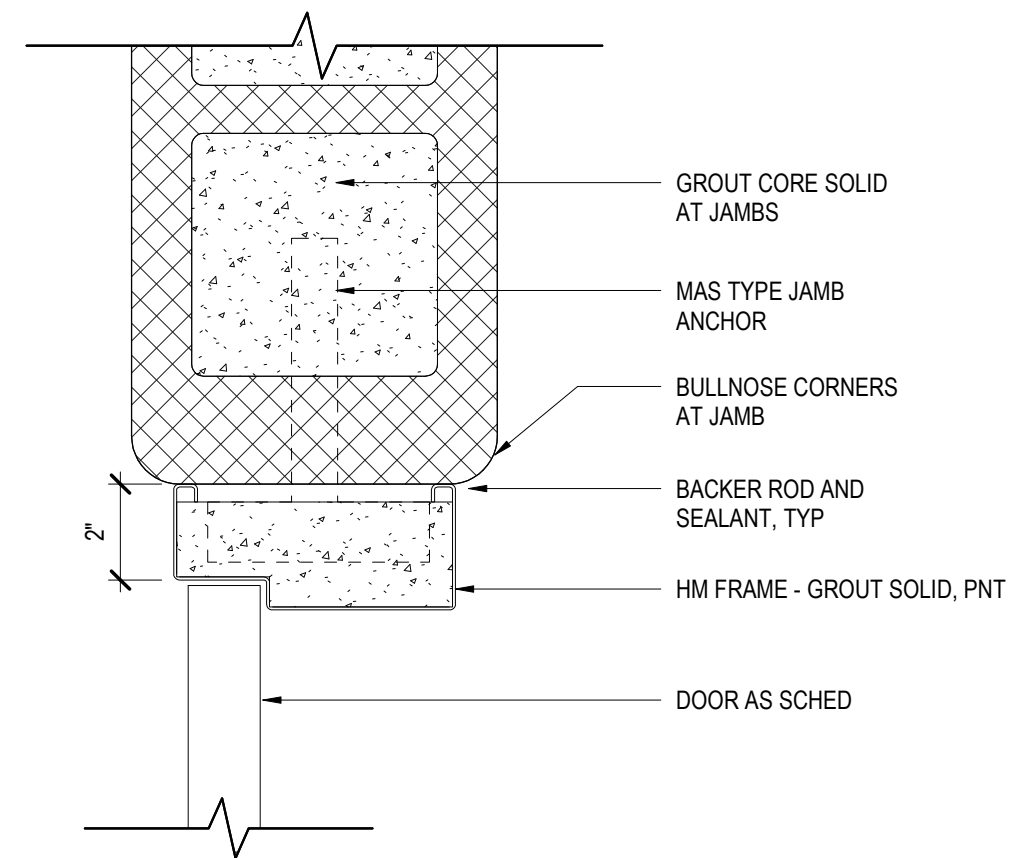
12 WINDOW SILL AT FIBER CEMENT SIDING
A5-3 3' = 1'-0"



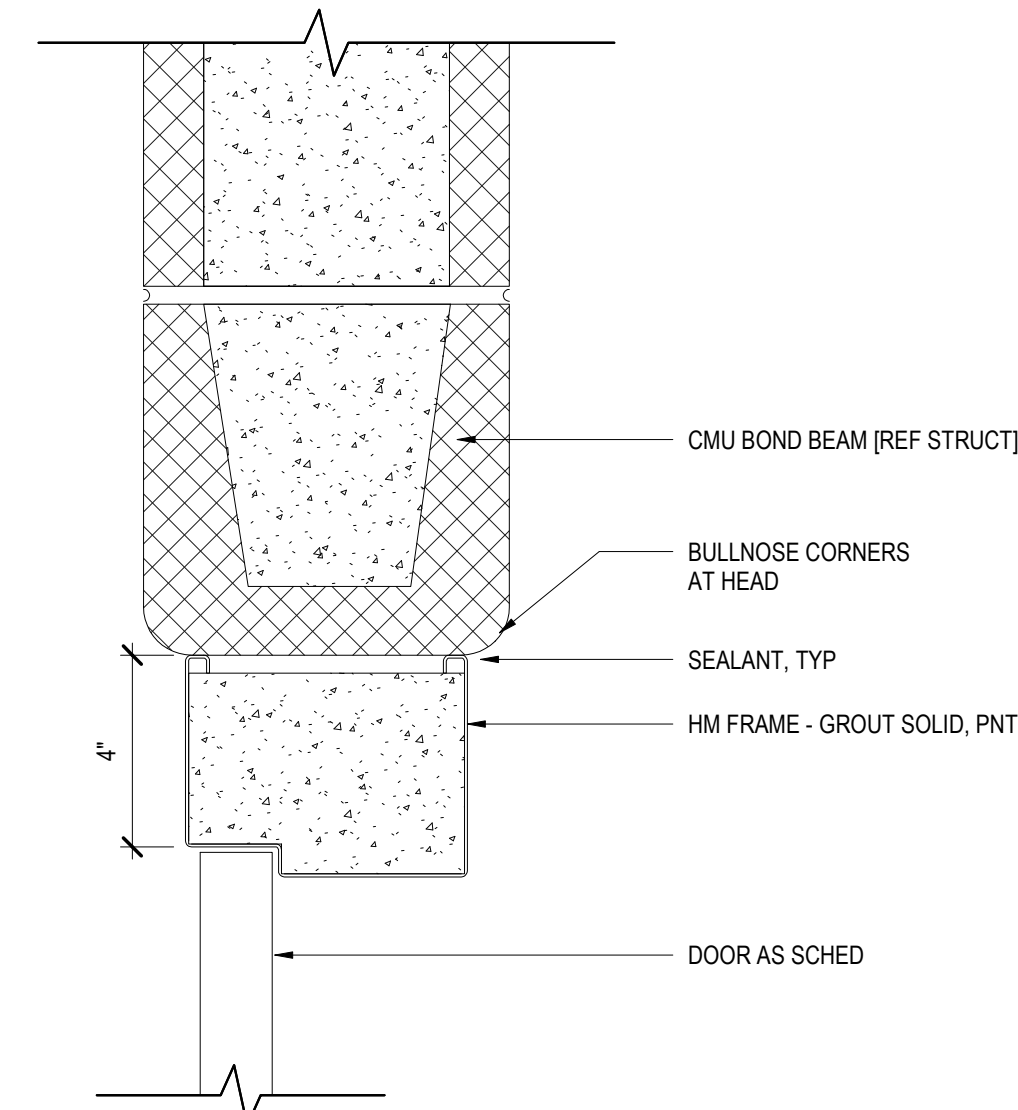
1
A5-4 3" = 1'-0"



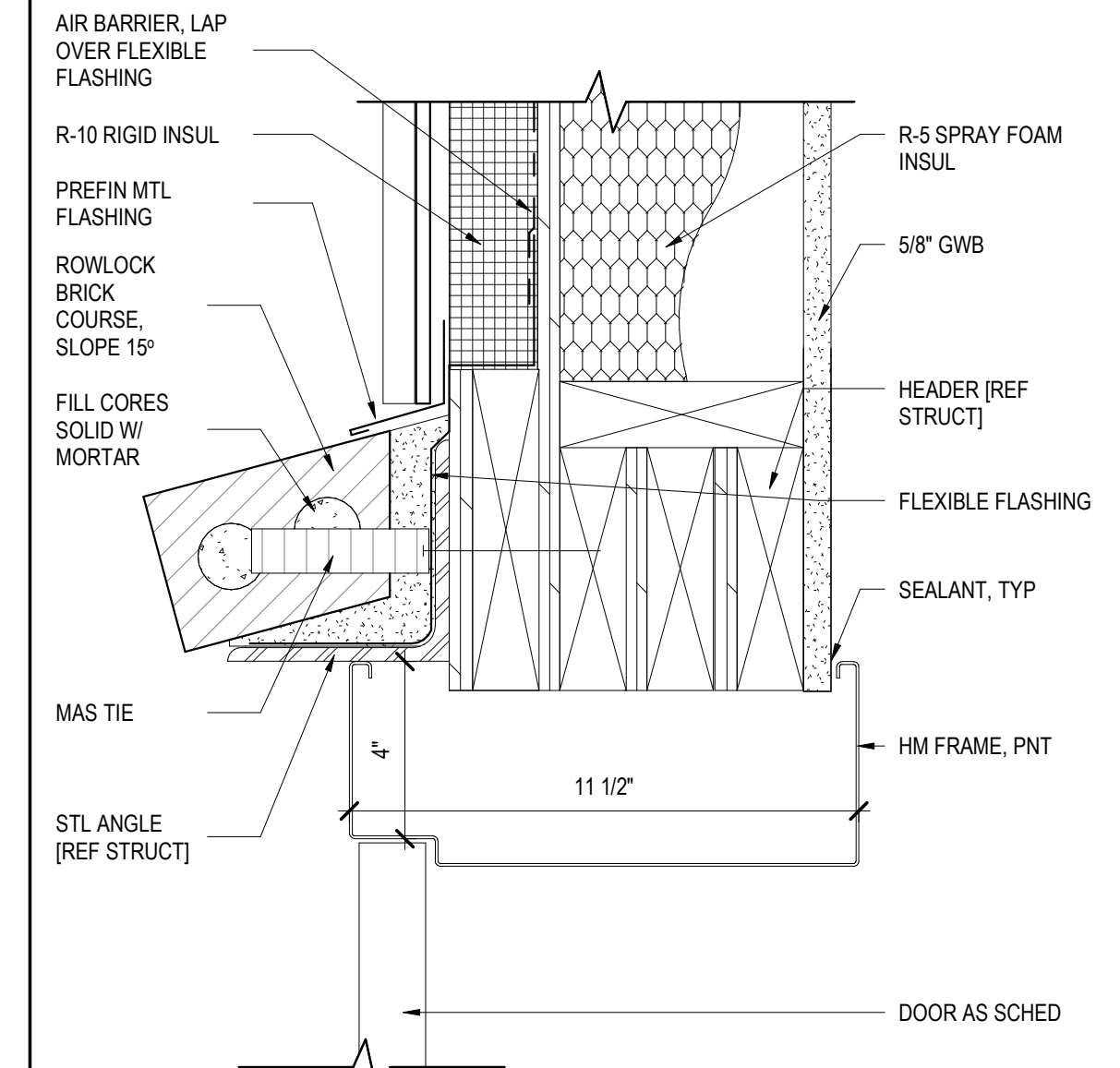
2
A5-4 3" = 1'-0"



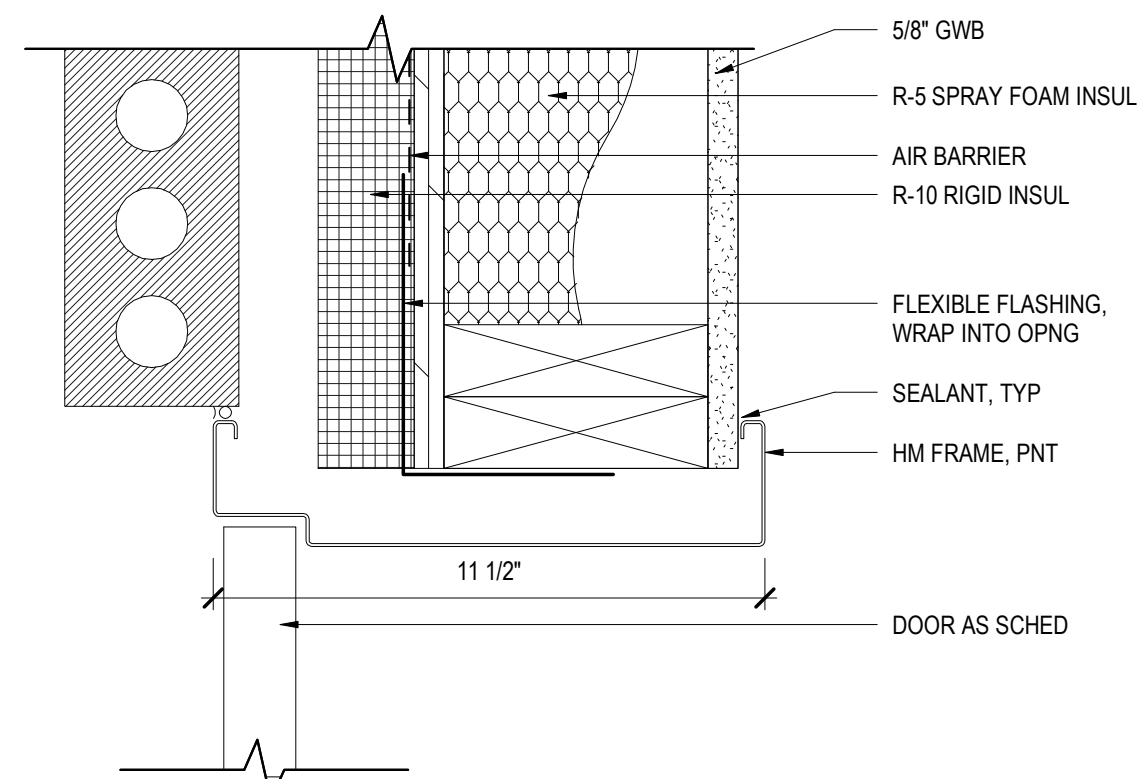
3
A5-4 3" = 1'-0"



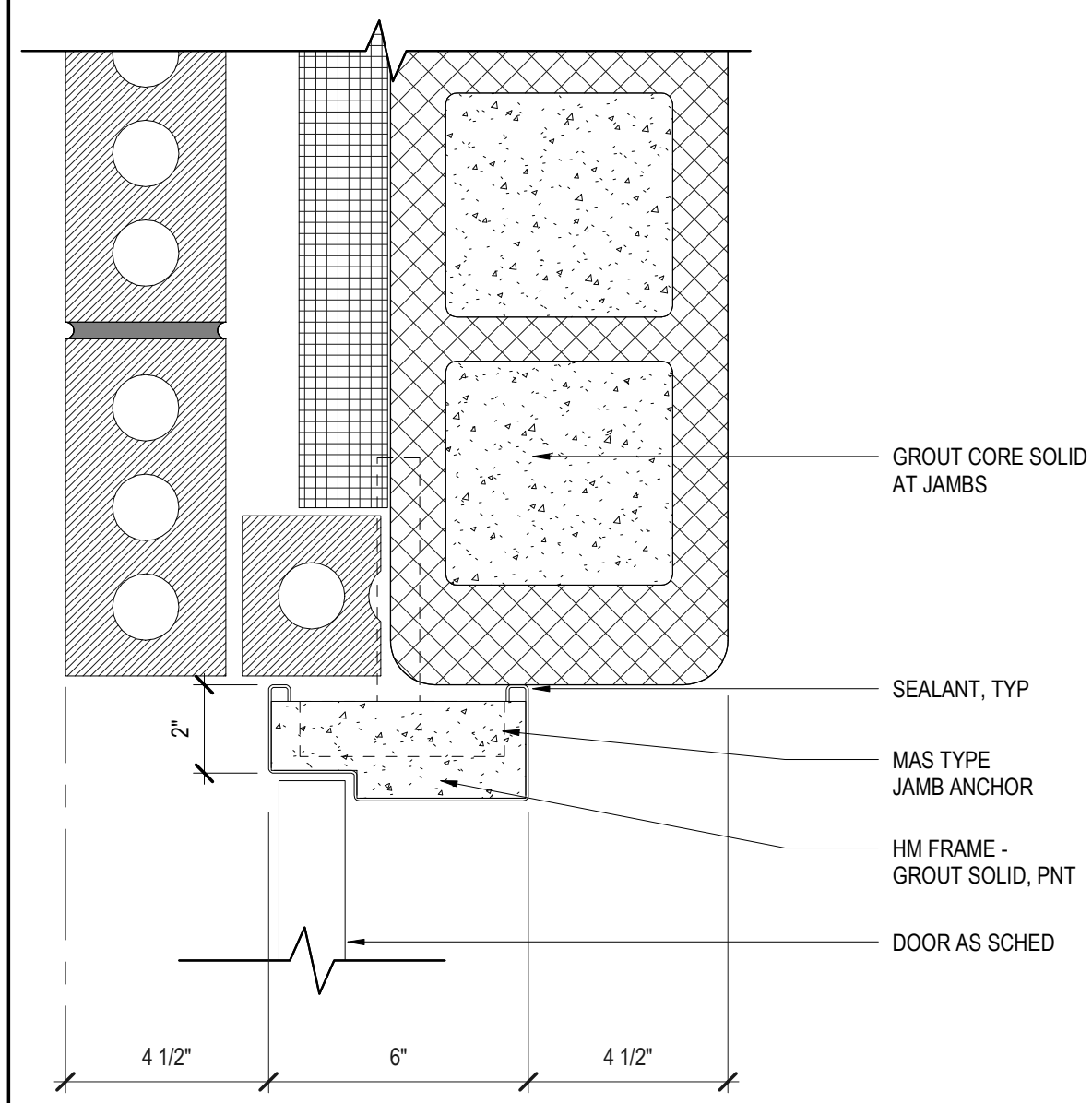
4
A5-4 3" = 1'-0"



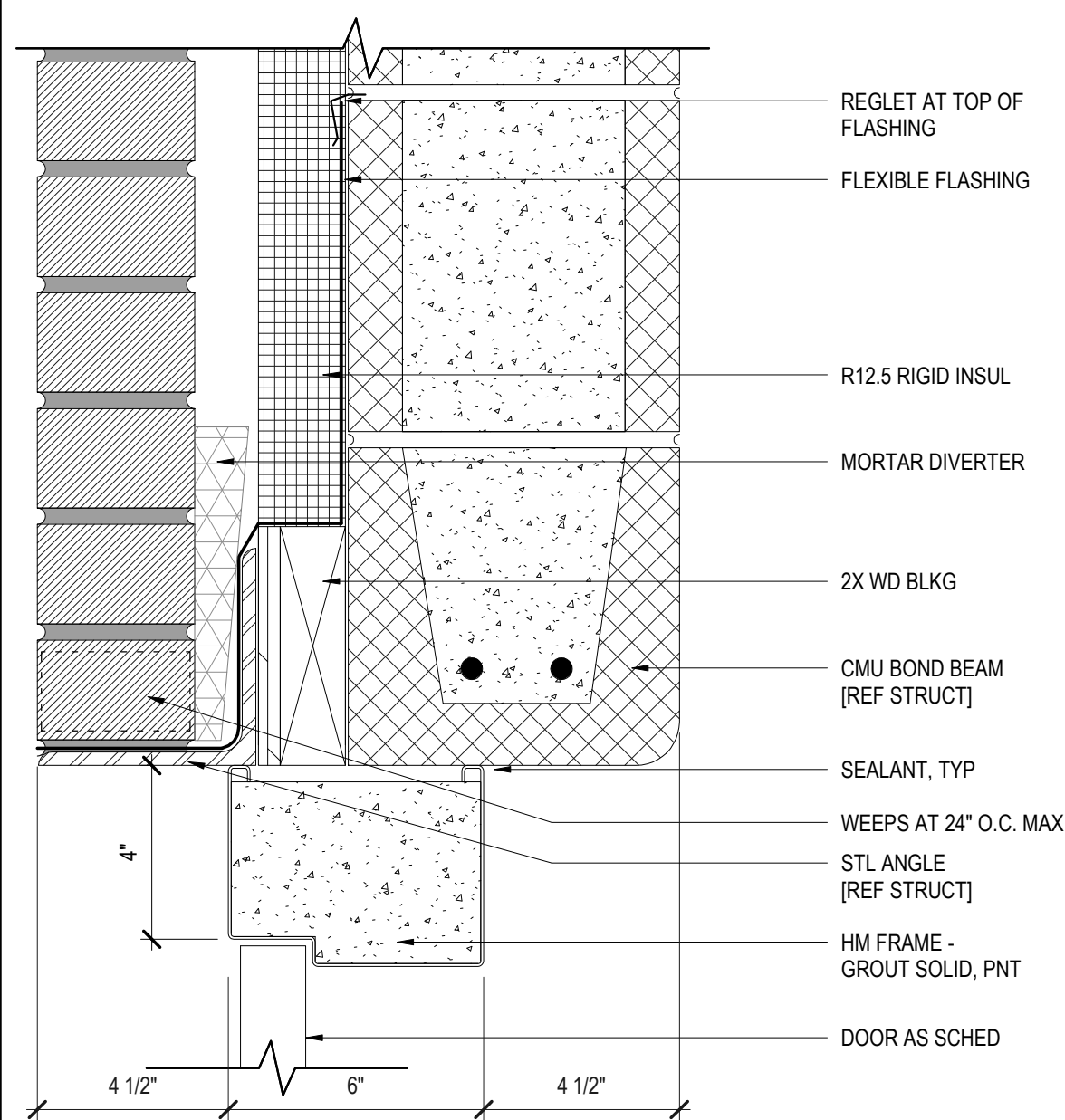
5
A5-4 3" = 1'-0"



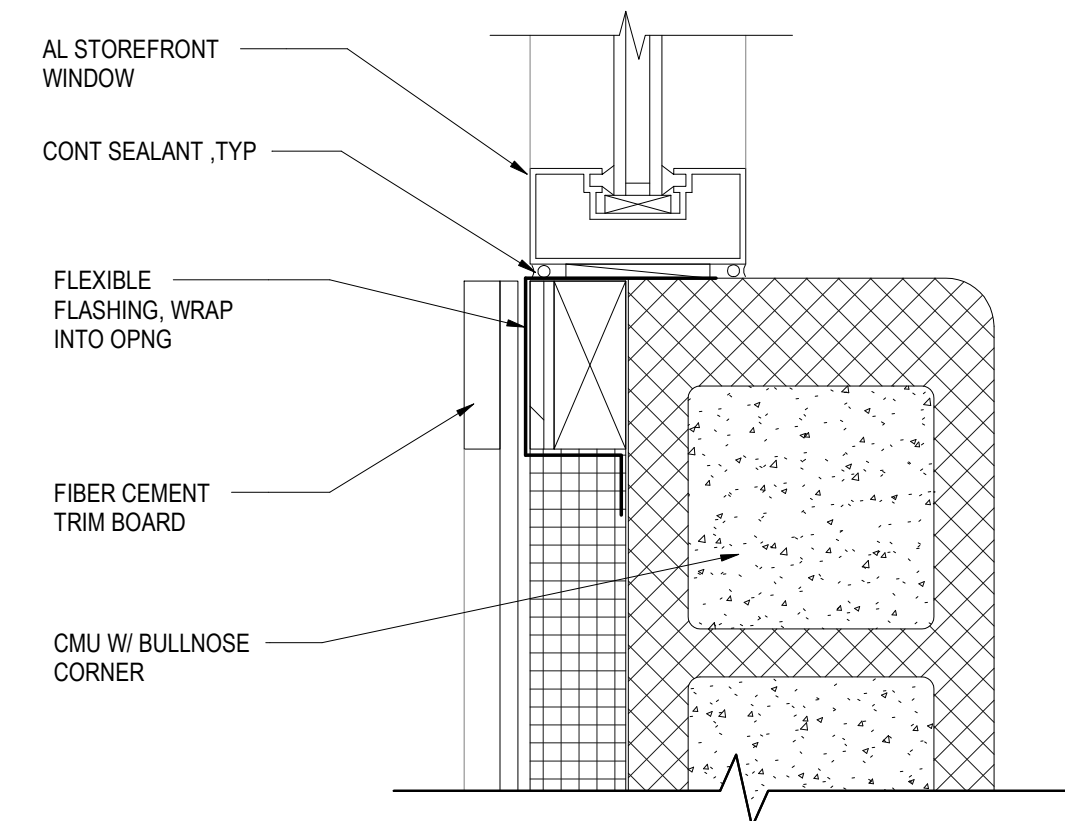
6
A5-4 3" = 1'-0"



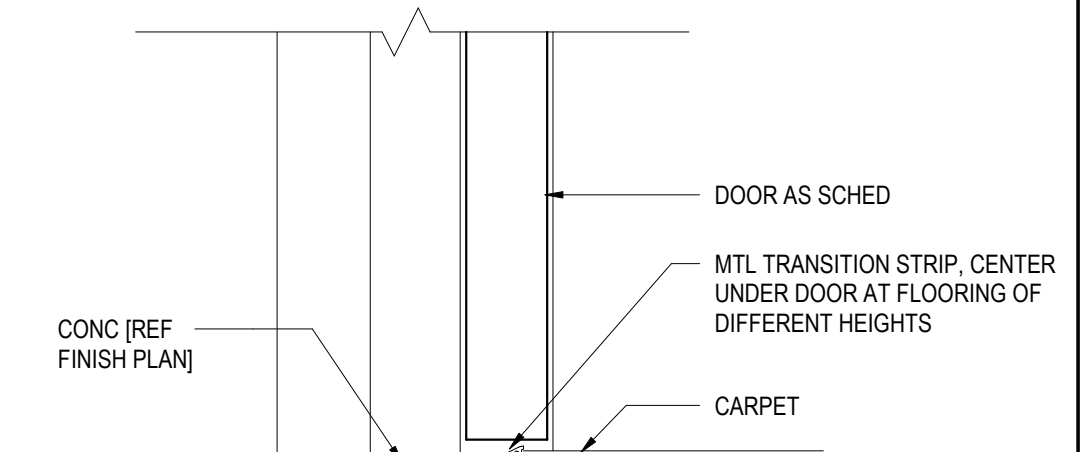
7
A5-4 3" = 1'-0"



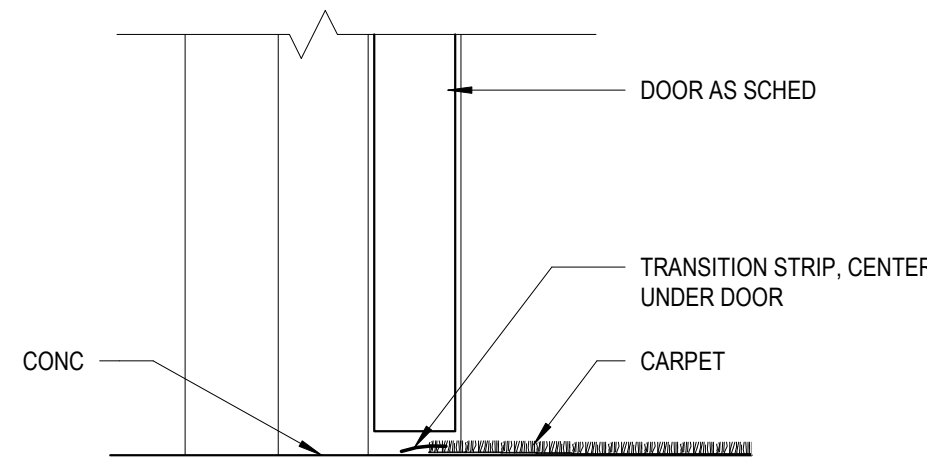
8
A5-4 3" = 1'-0"



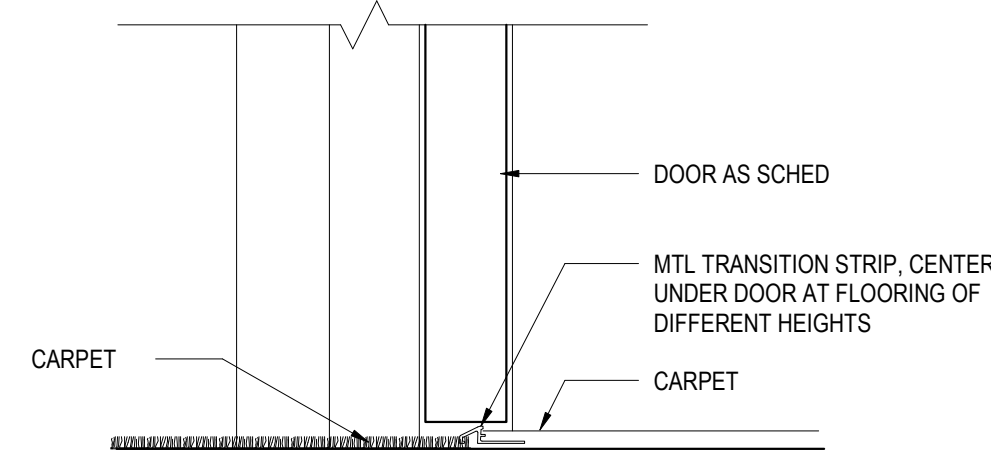
9
A5-4 3" = 1'-0"



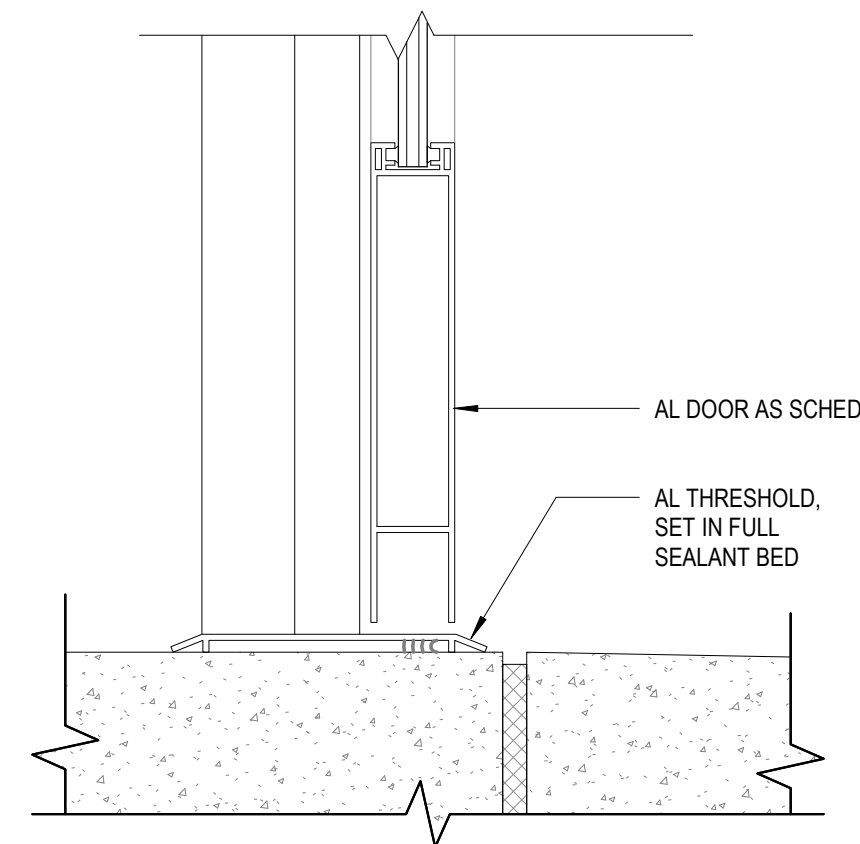
10
A5-4 3" = 1'-0"



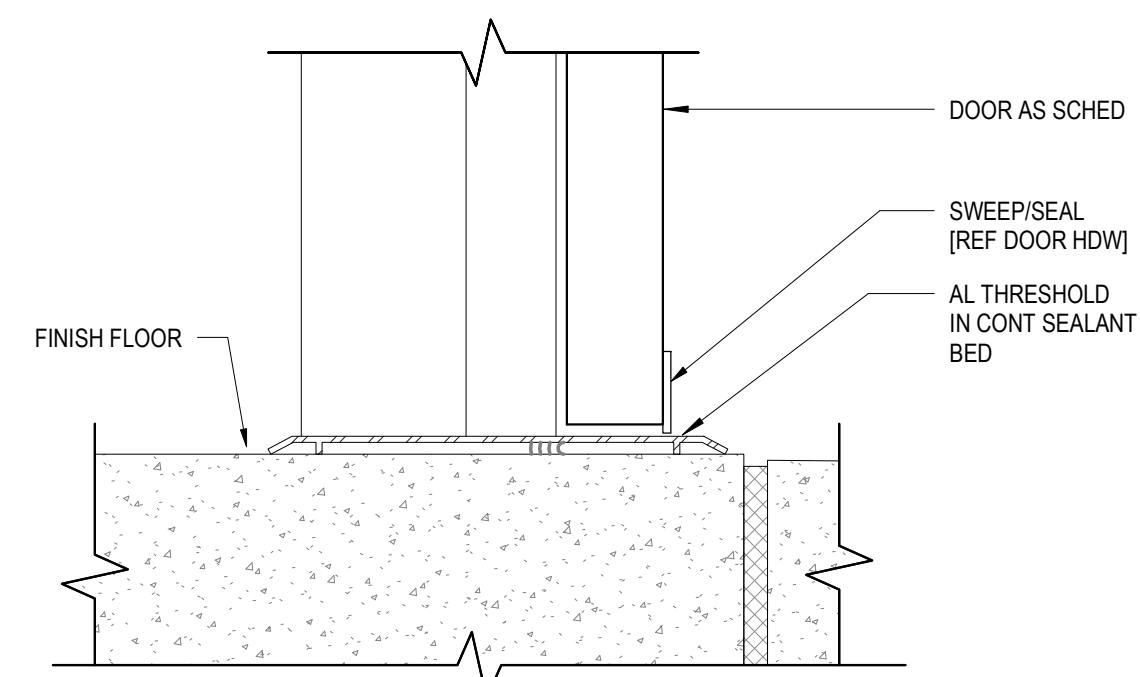
11
A5-4 3" = 1'-0"



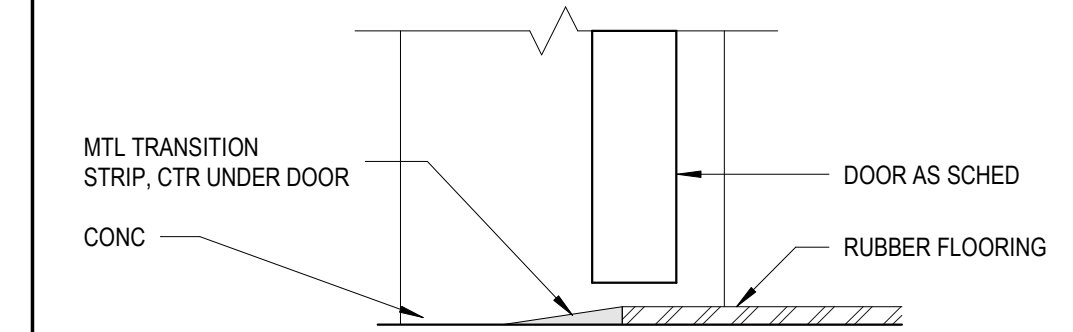
12
A5-4 3" = 1'-0"



13
A5-4 3" = 1'-0"

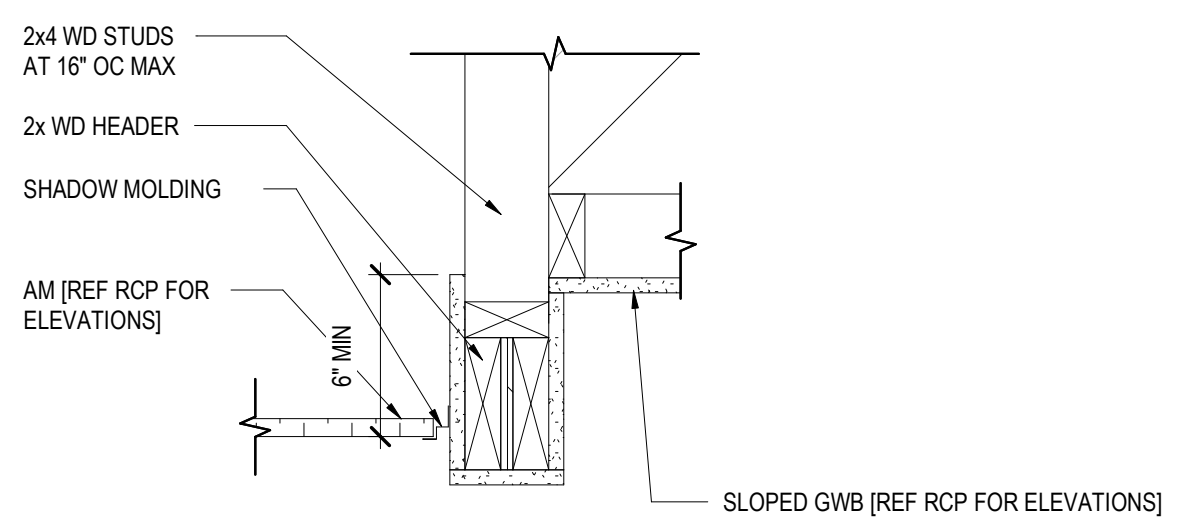


14
A5-4 3" = 1'-0"

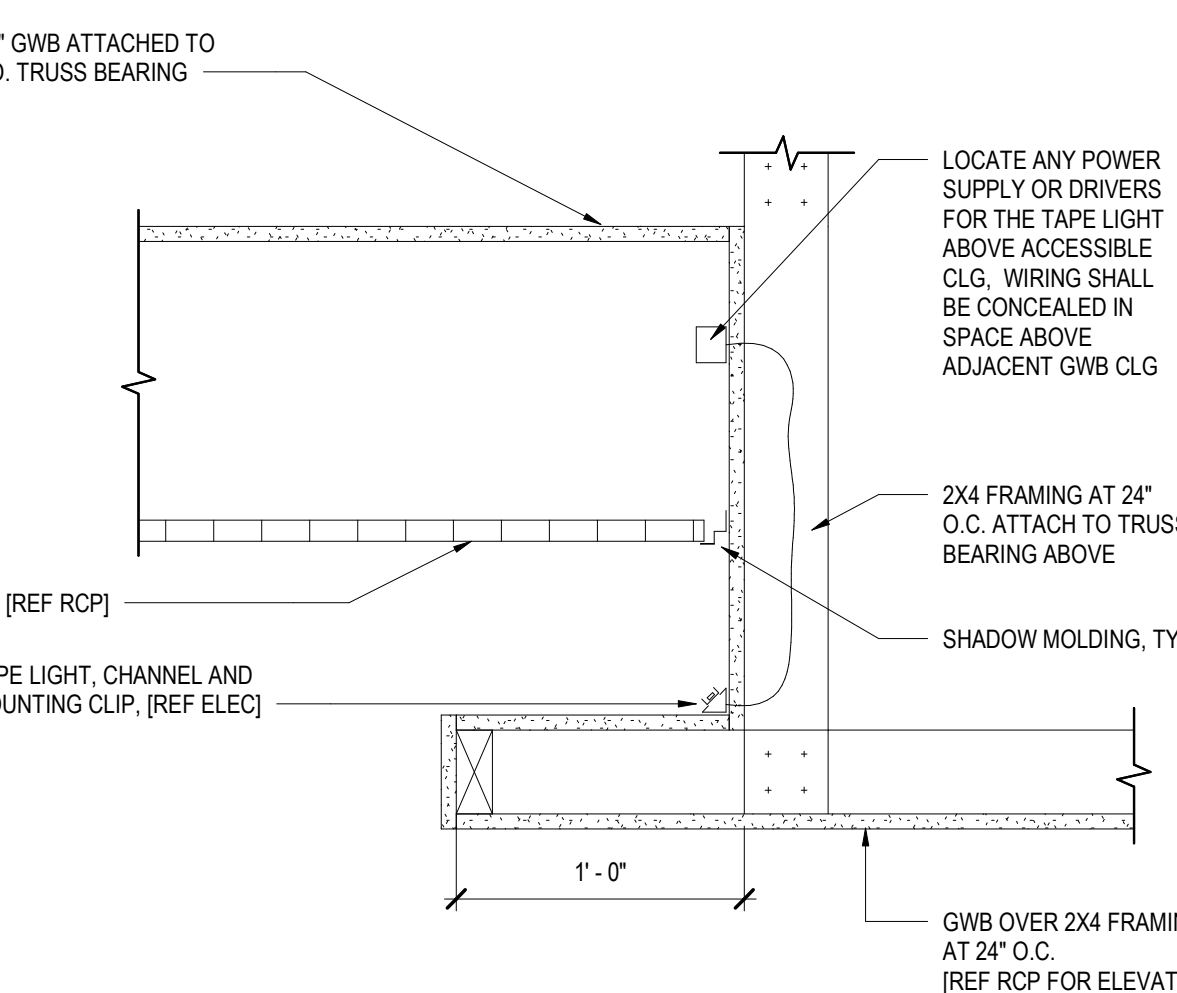


15
A5-4 3" = 1'-0"

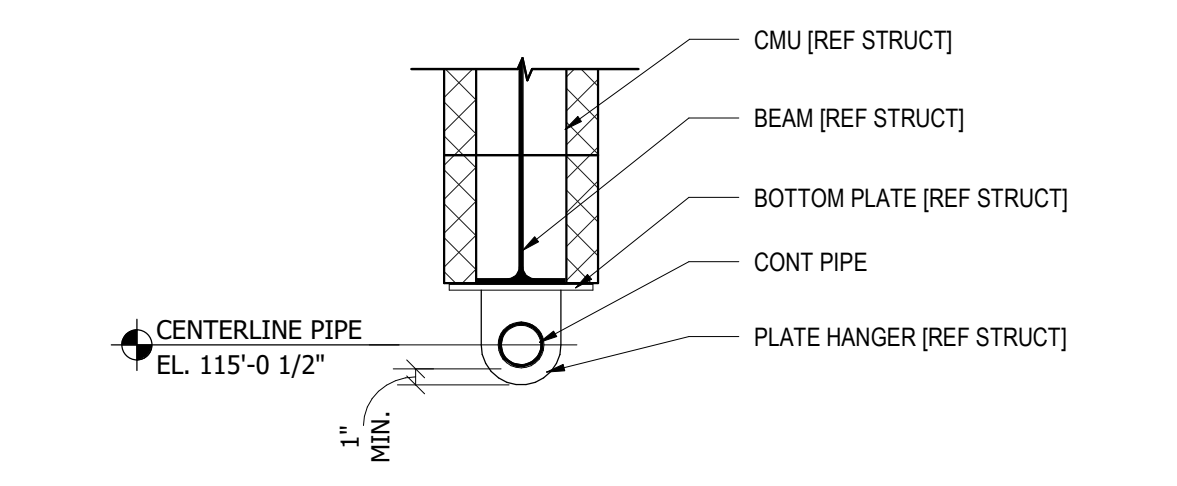
KEYNOTE LEGEND	
07-3	DOWN SPOUT, TYP
07-24	PREFINISHED WOOD PLANK SOFFIT
07-25	PREFINISHED METAL SOFFIT PLANK
07-26	PREFINISHED METAL FASCIA
08-7	OVERHEAD SECTIONAL DOOR TRACK
08-9	ATTIC ACCESS
22-12	HOSE REEL [REF PLBG]
23-7	ENGINE EXHAUST REMOVAL [REF MECH]
23-8	INFRARED HEATER [REF MECH]
23-10	DUCT [REF MECH]
26-2	LIGHT FIXTURE, TYP [REF ELEC]
26-5	LIGHT FIXTURE, CENTER LIGHT FIXTURE TO ISLAND COUNTER BELOW ALL DIRECTIONS



2 DETAIL
A6-1 1 1/2" = 1'-0"

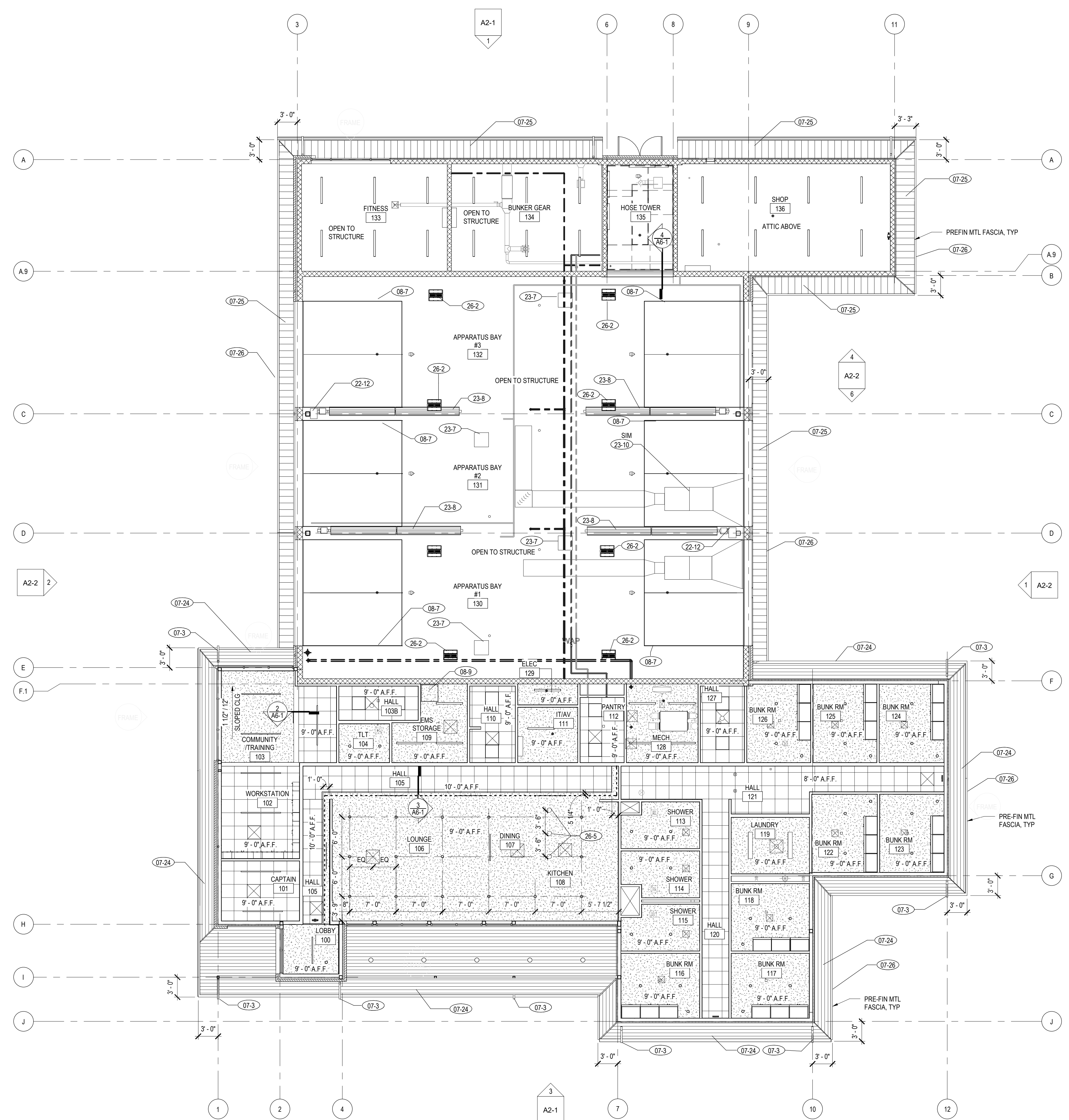


3 DETAIL
A6-1 1 1/2" = 1'-0"

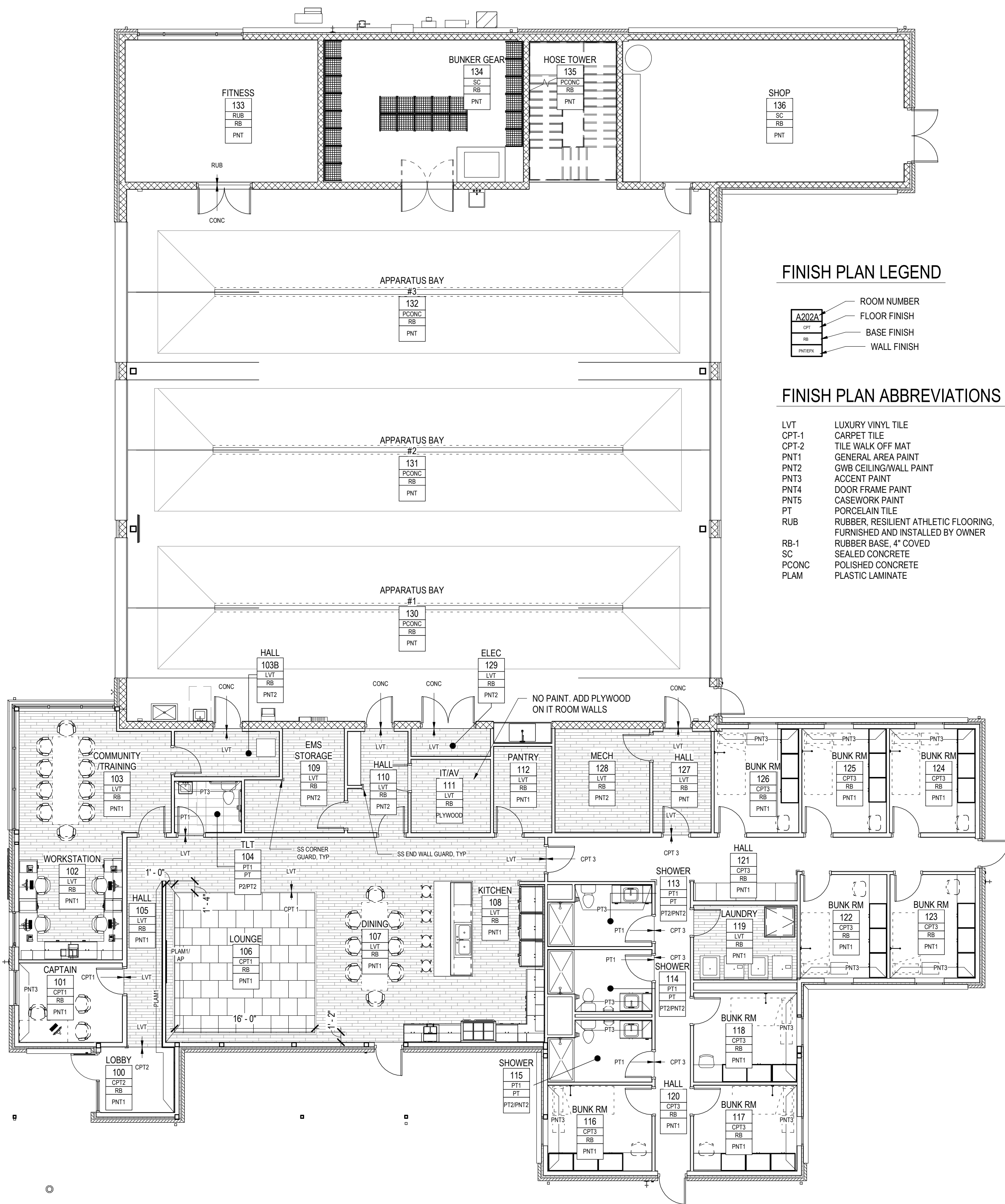


4 STL PIPE AT STAIR DETAIL
A6-1 1" = 1'-0"

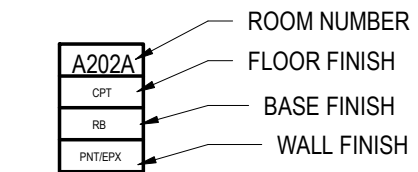
LEGEND	
	ACOUSTICAL CEILING TILE REF INTERIOR FINISH SCHEDULE FOR COLOR
	GWB (PNT 2)
	RECESSED LIGHT FIXTURE [REF ELEC]
	SUSPENDED LIGHT FIXTURE [REF ELEC]
	SUSPENDED LIGHT FIXTURE [REF ELEC]
	MECHANICAL AIR RETURN [REF MECH]
	MECHANICAL AIR DIFFUSER [REF MECH]



1 REFLECTED CEILING PLAN
A6-1 1/8" = 1'-0"
NORTH



FINISH PLAN LEGEND



FINISH PLAN ABBREVIATIONS

- LVT LUXURY VINYL TILE
- CPT-1 CARPET TILE
- CPT-2 TILE WALK OFF MAT
- PNT1 GENERAL AREA PAINT
- PNT2 GWB CEILING/WALL PAINT
- PNT3 ACCENT PAINT
- PNT4 DOOR FRAME PAINT
- PNT5 CASEWORK PAINT
- PT PORCELAIN TILE
- RUB RUBBER, RESILIENT ATHLETIC FLOORING, FURNISHED AND INSTALLED BY OWNER
- RB-1 RUBBER BASE, 4" COVERED
- SC SEALED CONCRETE
- PCONC POLISHED CONCRETE
- PLAM PLASTIC LAMINATE

1 FINISH PLAN
A7-1
1/8" = 1'-0"

NOTE: FURNITURE SHOWN FOR REFERENCE ONLY. FURNITURE IS FBO

EXTERIOR FINISH COLOR SCHEDULE		
TITLE	ITEM	COLOR
CAST IN PLACE CONCRETE	SITE CONCRETE	GRAY
MASONRY VENEER	BRICK VENEER	GENERAL SHALE, COLONIAL SATIN
MASONRY VENEER	MORTAR	SOLOMON, SGS 9TH SUPER BLACK
METAL SOFFIT PANELS	METAL SOFFIT PANEL	ALUMINUM DARK BRONZE
FIBER CEMENT SIDING	FIBER CEMENT SIDING	JAMES HARDIE, RICH ESPRESSO
FIBER CEMENT SIDING	FIBER CEMENT BATTEN BOARDS	JAMES HARDIE, RICH ESPRESSO
FIBER CEMENT SIDING	FIBER CEMENT TRIM BOARDS	JAMES HARDIE, RICH ESPRESSO
ROOF SPECIALTIES	COPINGS	ALUMINUM DARK BRONZE
ROOF SPECIALTIES	GUTTERS AND DOWNSPOUTS	ALUMINUM DARK BRONZE
JOINT SEALANTS	MASONRY CONTROL JOINT	MATCH MORTAR
JOINT SEALANTS	STOREFRONT TO FIBER CEMENT JOINTS	MATCH STOREFRONT
JOINT SEALANTS	METAL PANEL TO FIBER CEMENT JOINTS	MATCH METAL PANELS
JOINT SEALANTS	MASONRY TO METAL PANEL JOINTS	MATCH METAL PANELS
HOLLOW METAL DOOR AND FRAMES	DOORS	MATCH ALUMINUM STOREFRONT FRAMING
HOLLOW METAL DOOR AND FRAMES	FRAMES	MATCH ALUMINUM STOREFRONT FRAMING
SECTIONAL DOORS	DOORS	RAL COLOR TO MATCH STOREFRONT
AL FRAMED ENTRANCES AND STOREFRONTS	STOREFRONT FRAMING	DARK BRONZE ANODIZED
HIGH PERFORMANCE COATINGS	EXTERIOR STEEL	MATCH AL STOREFRONT FRAMING
SIGNAGE	EXTERIOR CAST ALUMINUM LETTERS	DARK BRONZE ANODIZED
FLAGPOLES	FLAGPOLE	DARK BRONZE ANODIZED

INTERIOR FINISH COLOR SCHEDULE								
	TAG	MANUFACTURER	FAMILY/STYLE	NUMBER	COLOR	FINISH	LOCATION	NOTES
PAINT	PNT1	SHERWIN WILLIAMS		SW6106	KILIM BEIGE		WALL	EGGSHELL FINISH TYP, EPOXY AT WET AND UTILITY LOCATIONS
	PNT2	SHERWIN WILLIAMS		SW7042	SHOJI WHITE		CEILING	GWB CEILINGS - FLAT FINISH, EPOXY AT WET AND UTILITY LOCATIONS
	PNT3	SHERWIN WILLIAMS		SW7045	INTELLECTUAL GRAY		WALL	ACCENT, EGG SHELL FINISH
	PNT4	SHERWIN WILLIAMS		SW7026	GRIFFIN		DOOR FRAMES	SEMI GLOSS FINISH
	PNT5	SHERWIN WILLIAMS		SW6991	BLACK MAGIC		CASEWORK	SEMI GLOSS FINISH
CARPET	CPT1	MANNINGTON	OFFLINE LOOP	14199	LINKED		OFFICE	
	CPT2	MANNINGTON	FORCE	TBD	TBD	--	AS SHOWN ON PLAN	WALK OFF CARPET
	CPT3	MANNINGTON	BOUCLE	15297	ONYX		SLEEPING ROOM	
LUXURY VINYL TILE	LVT	MANNINGTON	NATURE'S PATH WOOD		AMERICAN WALNUT	NATURAL	AS SHOWN ON PLAN	EXTEND UNDER CASEWORK, SHELVING AND APPLIANCES
RESILIENT BASE	RB	ROPPE		194	BURNT UMBER		AS SHOWN ON PLAN	
CEILING GRID AND TILE	AM				WHITE		AS SHOWN ON RCP	
TILE	PT1	LANDMARK CERAMICS	ATTITUDE		CALM BROWN	--	FLOOR	
	PT2	LANDMARK CERAMICS	ATTITUDE		LIGHT WHITE	--	WALL	
	PT3	IRIS CERAMICA	BOWL		GRAY(LUX)	--	WALL	ACCENT
GROUT							FLOOR AND WALL	TO BE SELECTED FROM MFR'S STANDARD COLORS
PLASTIC LAMINATE	PLAM1	WILSONART		7965K-12	WALNUT HEIGHTS		CASEWORK/PANELING	
CORNER GUARD/END GUARD	--						AS SHOWN ON PLAN	STAINLESS STEEL
WINDOW SHADES	--				TBD	LIGHT FILTERING	WINDOWS	TO BE SELECTED FROM MFR'S STANDARD COLORS
	--				TBD	BLACKOUT	WINDOWS	TO BE SELECTED FROM MFR'S STANDARD COLORS
COUNTERTOPS	SSM	CORIAN			COTTAGE LANE		AS SHOWN ON PLAN	
WALL SOUND PANEL	AP	GUILFORD OF MAINE	OTTO	7030	SLATE		AS SHOWN ON PLAN	
FLUSH WD DOORS	--	--			PLAIN SLICED WALNUT	CLEAR	AS SCHEDULED	
RESILIENT SPORTS FLOORING	RUB						FITNESS AREA	FURNISHED AND INSTALLED BY OWNER
SIGNAGE TEXT	--						AS SCHEDULED	TO BE SELECTED FROM MFR'S STANDARD COLORS
SIGNAGE BACKGROUND	--	WILSONART		7965K-12	WALNUT HEIGHTS		AS SCHEDULED	
SIGNAGE ACCENT BAR	--				ANODIZED ALUMINUM		AS SCHEDULED	

ABBREVIATIONS

A.B. -ANCHOR BOLT	F.O.B. -FACE OF BRICK	P.T. -PRESSURE TREATED
ADD'L -ADDITIONAL	F.O. CONC. -FACE OF CONCRETE	R. -RADIUS
ADJ. -ADJACENT	F.O.W. -FLAT OF WALL	REINF. -REINFORCEMENT
A.I.S.C. -AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FS. -FLAT SLAB	REQ'D -REQUIRED
ALT. -ALTERNATE	FT. -FOOT	RM. -ROOM
ARCH. -ARCHITECTURAL	FTG. -FOOTING	SB -SEATED BEAM
A.S.T.M. -AMERICAN SOCIETY FOR TESTING & MATERIALS	F.W. -FILL WELD	SCHED. -SCHEDULE
BLDG. -BUILDING	GA. -GAUGE	SECT. -SECTION
BM. -BEAM	GAL. -GALVANIZED	SHT. -SHEET
B.O. -BOTTOM OF	G.L. -GLUE LAM BEAM	S.I. -SUPERIMPOSED DEAD LOAD
BOT. -BOTTOM	GR. -GRADE	SIM. -SIMILAR
BSMT. -BASEMENT	GR. BM. -GRADE BEAM	S.L. -SNOW LOAD
B.TWN. -BETWEEN	H.A.S. -HEADED ANCHOR STUD	S.L.V. -SHORT LEG VERTICAL
CANT. -CANTILEVER	H.D.G. -HOT DIPPED GALVANIZED	SPC. -SPACE
CB. -CARDBOARD	HORIZ. -HORIZONTAL	SPEC. -SPECIFICATION
CH. -CHAMFER	H.S.B. -HIGH STRENGTH BOLT	SQ. -SQUARE
C.J. -CONTROL/CONSTRUCTION JOINT	HSS -HOLLOW STRUCTURAL SECTION	STD. -STANDARD
C.L.R. -CLEAR, CLEARANCE	I.D. -INSIDE DIAMETER	STIFF. -STIFFENER
C.M.U. -CONCRETE MASONRY UNIT	I.F. -INSIDE FACE	STL. -STEEL
COL. -COLUMN	IN. -INCH	STOR. -STORAGE
CONC. -CONCRETE	INT. -INTERIOR	SYM. -SYMMETRICAL
CONN. -CONNECTION	JNT. -JOINT	T.&B. -TOP & BOTTOM
CONST. -CONSTRUCTION	K -KIP (1,000 lbs.)	THK. -THICKNESS
CONT. -CONTINUOUS	K.C.I. -KIP PER CUBIC INCH	T.O. -TOP OF
CONTR. -CONTRACTOR	KIP -KIP PER CUBIC INCH	TYP. -TYPICAL
CTRD. -CENTERED	LIN. FT. -LINEAL FEET	U.N.O. -UNLESS NOTED OTHERWISE
C.W. -CURTAIN WALL	L.I. -LIVE LOAD	VAR. -VARIES
DET. -DETAIL	L.L.V. -LONG LEG VERTICAL	VERT. -VERTICAL
DIAG. -DIAGONAL	L.S.L. -LAMINATED STRAND LUMBER	V.I.F. -VERIFY IN FIELD
DIAM. -DIAMETER	L.V.L. -LAMINATED VENEER LUMBER	WT. -WEIGHT
DIM. -DIMENSION	MAT'L. -MATERIAL	
DISCONT. -DISCONTINUOUS	MECH. -MECHANICAL	C. CENTER LINE
D.W.G. -DRAWING	MID. -MIDDLE	Ø DIAMETER
EA. -EACH	MIN. -MINIMUM	ELEVATION
E.F. -EACH FACE	MISC. -MISCELLANEOUS	# AND
EL. -ELEVATION	MTL. -METAL	W/ WITH
ELECT. -ELECTRICAL	N.C. -NOT IN CONTRACT	PLATE
ELEV. -ELEVATOR	NO. -NUMBER	X BY
EQ. -EQUAL	NOM. -NOMINAL	# NUMBER
E.W.B. -END WALL BARS	N.T.S. -NOT TO SCALE	@ AT
E.W. -EACH WAY	O.C. -ON CENTER	⊞ SQUARE
EXIST. -EXISTING	O.F. -OUTSIDE FACE	L ANGLE
EXP. INT. -EXPANSION JOINT	O.D. -OUTSIDE DIAMETER	P-X PILASTER TYPE
EXT. -EXTERIOR	O.H. -OPPOSITE HAND	PC-X PILE CAP TYPE
F.D. -FLOOR DRAIN	OPNG. -OPENING	XXX-XX TOP OF PILE CAP ELEVATION
FDN. -FOUNDATION	P.A.F. -POWDER ACTUATED FASTENERS	
FIN. -FINISH	PL -PLATE	
FLR. -FLOOR	P.S.F. -POUND PER SQUARE FOOT	
	P.S.I. -POUND PER SQUARE INCH	
	P.S.L. -PARALLEL STRAND LUMBER	

SPECIALTY PIER SPECIFICATIONS (BID ALTERNATE #1)

- SPECIALTY PIERS (ROTARY DRIVEN PIPE PILES) SHALL BE INSTALLED BY AN AUTHORIZED PIER INSTALLING CONTRACTOR WHO HAS SATISFIED THE CERTIFICATION REQUIREMENTS RELATING TO THE TECHNICAL ASPECTS OF THE PRODUCT AND THE DESCRIBED INSTALLATION TECHNIQUES.
- ALL WORK AS DESCRIBED HEREIN SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES IN EFFECT AT THE TIME OF INSTALLATION.
- THE SPECIALTY PIER LEAD SECTIONS AND EXTENSIONS SHALL BE STEEL PIPE CONFIGURATION, WITH ONE OR MORE HELICAL BEARING PLATES WELDED TO THE SHAFT.
- ALL PIERS MUST BE CORROSION PROTECTED BY HOT DIP GALVANIZATION. UNCOATED STEEL MAY ONLY BE USED IF ADDITIONAL WALL THICKNESS IS PROVIDED AS REQUIRED TO MAINTAIN THE DESIGN CAPACITY OF EACH PIER FOR A MINIMUM 100 YEAR LIFE WHEN EXPOSED TO SOILS HAVING MODERATE TO HIGH POTENTIAL FOR CORROSION OF STEEL. SEE THE PROJECT GEOTECHNICAL REPORT FOR LEVELS OF CORROSION OF THE SITE SOILS.
- INSTALLATION UNITS SHALL CONSIST OF A ROTARY TYPE TORQUE MOTOR WITH FORWARD AND REVERSE CAPABILITIES. THESE UNITS SHALL BE EITHER ELECTRICALLY OR HYDRAULICALLY POWERED.
- INSTALLATION UNITS SHALL BE CAPABLE OF DEVELOPING THE MINIMUM TORQUE AS REQUIRED.
- INSTALLATION UNITS SHALL BE CAPABLE OF POSITIONING THE HELICAL PIER AT THE PROPER INSTALLATION ANGLE. THIS ANGLE MAY VARY BETWEEN VERTICAL AND 5 DEGREES DEPENDING UPON APPLICATION AND TYPE OF LOAD TRANSFER DEVICE SPECIFIED OR REQUIRED.
- INSTALLATION TORQUE SHALL BE MONITORED THROUGHOUT THE INSTALLATION PROCESS.
- SPECIALTY PIERS SHALL BE INSTALLED TO THE MINIMUM TORQUE VALUE REQUIRED TO PROVIDE THE LOAD CAPACITIES SHOWN ON THE PLANS.
- THE APPROPRIATE NEW STEEL CONSTRUCTION LOAD TRANSFER DEVICE SHALL BE USED, OR AS DETAILED IN THE FOUNDATION SECTIONS OF THE STRUCTURAL DRAWINGS.
- APPROPRIATE PIER SELECTION WILL CONSIDER LOAD PLUS 2X SAFETY FACTOR, SOILS PARAMETERS, AND THE INSTALLATION TORQUE VERSUS CAPACITY EQUATION AS PER THE MANUFACTURER'S RECOMMENDATIONS.

Sheet List

Sheet Number	Sheet Name
S0-1	GENERAL NOTES
S0-2	SCHEDULE OF SPECIAL INSPECTIONS
S1-1	FOUNDATION PLAN
S1-2	LOW ROOF FRAMING PLAN
S1-3	TOWER ROOF, LOUVER SUPPORT, & MEZZANINE FRAMING PLAN
S2-1	PILE CAP DETAILS
S2-2	TYPICAL FOUNDATION DETAILS
S2-3	TYPICAL MASONRY DETAILS
S2-4	C.M.U. WALL ELEVATIONS
S2-5	C.M.U. WALL ELEVATIONS
S2-6	TYPICAL STEEL FRAMING DETAILS
S2-7	TYPICAL WOOD FRAMING DETAILS
S3-1	FOUNDATION SECTIONS
S3-2	FOUNDATION SECTIONS
S3-3	FRAMING SECTIONS
S3-4	FRAMING SECTIONS
S3-5	FRAMING SECTIONS

GENERAL NOTES CONT.

- STEEL:
 - ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 (Fy = 50ksi).
 - ALL STRUCTURAL STEEL ANGLES, CHANNELS, S SHAPES, AND PLATES SHALL CONFORM TO ASTM 36 (Fy = 36 ksi).
 - ALL RECTANGULAR OR SQUARE HSS (HOLLOW STRUCTURAL SECTIONS) MEMBERS SHALL CONFORM TO ASTM A500 (GRADE B). ALL ROUND HSS MEMBERS SHALL CONFORM TO ASTM A53 (GRADE B) OR A501, LATEST EDITIONS.
 - STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISION OF THE A.I.S.C. STEEL CONSTRUCTION MANUAL.
 - E. USE FRAMED BEAM CONNECTIONS WITH 3/4" DIAMETER ASTM A325 BOLTS, OR WELDED EQUIVALENT, UNLESS OTHERWISE SHOWN OR NOTED. (2) BOLT MIN. FOR BEAMS WITHOUT DESIGNATED LOADS ON DRAWINGS, USE 8K MINIMUM EACH END. IF TWO SYMBOLS ARE SHOWN, THEY DENOTE CONNECTION REQUIRED AT CORRESPONDING END. IF ONLY ONE SYMBOL IS SHOWN, IT DENOTES CONNECTION REQUIRED AT EACH END OF BEAM.
 - STEEL ROOF DECK:
 - STEEL DECK SHALL BE ERECTED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED SPECIFICATIONS.
 - STEEL ROOF DECK SHALL CONFORM TO ASTM A1008 AND SHALL HAVE A MINIMUM YIELD STRENGTH Fy = 33 KSI. SEE THE DECK SCHEDULE ON SHEET S2-6.
 - DECK TO BE CONTINUOUS OVER A MINIMUM OF 3 SUPPORTS. UNLESS OTHERWISE SHOWN.
 - WELD DECK TO ALL SUPPORTS WITH PUDDLE WELDS. DECK MUST BE CAPABLE OF WITHSTANDING A DIAPHRAGM SHEAR UNDE IN THE DECK SCHEDULE. CONNECT PANEL SEAMS WITH SELF-TAPPING SCREWS, PUDDLE WELDS, OR BUTTON PUNCHES AS INDICATED IN THE DECK SCHEDULE. SUBMIT TEST DATA FROM DECK MANUFACTURER FOR DECK SELECTED TO SUBSTANTIATE THAT DECK WILL MEET OR EXCEED REQUIRED DIAPHRAGM SHEAR.
 - PROVIDE L3 x 3 x 1/4 FRAMING AROUND ALL OPENINGS LARGER THAN 6".
 - ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE A.W.S. STANDARD QUALIFICATION TESTS.
 - SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES OR OTHER HOLES REQUIRED IN STEEL MEMBERS.
- WOOD:
 - ALL BEAMS AND HEADERS 2 TO 4 INCHES THICK SHALL BE HEM-FIR NO. 2 AND BETTER WITH Fb = 850 PSI AND E = 1,300,000 PSI.
 - ALL BEAMS 5" AND THICKER SHALL BE HEM-FIR NO. 2 WITH Fb = 850 PSI AND E = 1,300,000 PSI.
 - ALL POSTS AND COLUMNS 5" AND THICKER SHALL BE HEM-FIR NO. 2 WITH Fb = 850 PSI AND E = 1,300,000 PSI.
 - STUDS AND PLATES SHALL BE HEM-FIR IN STUD GRADE WITH Fb = 800 PSI AND E = 1,200,000 PSI.
 - LAMINATED VENEER LUMBER (L.V.L.) SHALL BE "MICRO-LAM" OR AN APPROVED EQUAL WITH Fb = 2,600 PSI AND E = 1,900,000 PSI.
 - GLUE LAMINATED BEAMS:
 - ALL LAMINATED MEMBERS SHALL BE FABRICATED WITH ONE OF THE FOLLOWING SPECIES: DOUGLAS FIR, HEMLOCK, LARCH, OR SOUTHERN PINE.
 - LAMINATED MEMBERS SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR THE DESIGN AND FABRICATION OF STRUCTURAL GRADE LAMINATED LUMBER, PUBLISHED BY THE A.I.T.C. AND THE APPROPRIATE LUMBER PRODUCER'S ASSOCIATION.
 - LAMINATED MEMBERS SHALL BE FABRICATED AS FOLLOWS:
 - BEAMS:
 - SIMPLE SPAN -----24F-V4
 - CONTINUOUS AND CANTILEVERS -----24F-V8
 - COLUMNS:
 - COMBINATION SYMBOL -----4
 - LAMINATED MEMBERS SHALL BE BUILT UP USING 2" NOMINAL MATERIAL. LAMINATED MEMBER SIZES NOTED ARE NET.
 - MEMBERS EXPOSED TO VIEW SHALL BE FURNISHED IN "ARCHITECTURAL" APPEARANCE GRADE. MEMBERS TO BE CONCEALED BY FINISH MATERIALS OR CEILINGS MAY BE "INDUSTRIAL" GRADE.
 - ADHESIVES USED SHALL COMPLY WITH THE SPECIFICATIONS AS CONTAINED IN VOLUNTARY PRODUCT STANDARD P556-73, STRUCTURAL GLUED LAMINATED TIMBER. WET-USE ADHESIVES ARE TO BE USED FOR ALL MEMBERS EXPOSED TO THE WEATHER.
 - BUILT UP BEAMS OF DIMENSIONAL LUMBER OR LAMINATED VENEER LUMBER SHALL BE ATTACHED TOGETHER WITH 16d COMMON NAILS @ 32" O.C. TOP AND BOTTOM, STAGGERED. PROVIDE 2-16d COMMON NAILS AT BEAM ENDS AND INTERMEDIATE SUPPORTS.
 - LAMINATED STRAND LUMBER (L.S.L.) RIM BOARDS SHALL BE "TIMBERSTRAND" BY TRUS-JOIST OR AN APPROVED EQUAL WITH Fb = 1,700 PSI AND E = 1,300,000 PSI.
 - JOIST FRAMING SHALL BE AS DESIGNATED ON THE PLANS OR ENGINEER APPROVED ALT. JOISTS SHALL BE DESIGNED, MANUFACTURED, AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S STANDARD SPECIFICATIONS & RECOMMENDATIONS.
 - CONCRETE MASONRY FOR STRUCTURAL WALLS:
 - ALL REINFORCING IN MASONRY WALLS SHALL CONFORM TO ASTM A615, GRADE 60 AND SHALL BE FULLY ENCLOSED WITH GRAVEL GROUT WITH MIN. fc = 3,000 PSI.
 - CONCRETE MASONRY SHALL CONSIST OF LIGHTWEIGHT CONCRETE BLOCK WITH A COMPRESSIVE STRENGTH OF 1,900 PSI.
 - CONCRETE MASONRY ASSEMBLY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH fm' = 1,500 PSI.
 - FILL ALL VOIDS AND BLOCK CELLS SOLID WITH MORTAR FOR A DISTANCE OF 24" BENEATH AND 12" EACH SIDE OF ALL BEAM REACTIONS OR OTHER CONCENTRATED LOADS, UNLESS OTHERWISE SHOWN OR NOTED.
 - STRUCTURAL MASONRY IS TO BE LAID IN TYPE "SM" MORTAR IN ACCORDANCE WITH SECTION 2103 OF THE INTERNATIONAL BUILDING CODE. TYPE "M" MASONRY CEMENT MORTAR IS NOT ACCEPTABLE FOR C.M.U. WALLS.
 - MASONRY WALLS MUST BE ADEQUATELY BRACED DURING CONSTRUCTION TO WITHSTAND WIND AND SEISMIC LOADS. BRACING MUST REMAIN IN PLACE UNTIL ROOF (AND FLOOR) DIAPHRAGMS ARE FULLY CAPABLE OF PROVIDING LATERAL SUPPORT.
 - FOUNDATIONS:

FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS BY HUDDLESTON-BERRY ENGINEERING & TESTING, LLC, JOB #00208-0112. RECOMMENDATIONS IN THIS REPORT SHOULD BE FOLLOWED.

 - STEEL PIPE PILES:
 - PIPE PILES ARE TO BE 10 3/4"x.375" WALL THICKNESS, WITH A 1" PLATE TIP, FILLED WITH CONCRETE PER THE MIX DESIGN TABLE. PIPE PILES SHALL HAVE A MINIMUM BEARING CAPACITY OF 50 TONS.
 - NO PILE DRIVING SHALL BE IN PROGRESS WITHIN A 15'-0" RADIUS OF A NEWLY CONCRETE FILLED PILE OR UNTIL CONCRETE HAS SET FOR SEVEN DAYS.
 - ALL PILES ARE TO BE DRIVEN TO REFUSAL INTO THE DENSE GRAVEL & COBBLE LAYER. FOR BID PURPOSES, PILES SHOULD SET UP AT A MINIMUM OF 49 FEET.
 - SPLICED ARE TO BE FULL PENETRATION FIELD WELDING TO DEVELOP FULL DESIGN LOAD.
 - PILE SET SHOULD BE DETERMINED BY THE JANBU FORMULA OR AN APPROVED EQUIVALENT CALCULATION.
 - ROTARY DRIVEN PIPE PILES (SCREW PILES) ALTERNATE NO. 1:
 - SUBJECT TO THE APPROVAL OF THE SOILS ENGINEER OF RECORD, SCREW PILES MAY BE USED AS AN ALTERNATE TO DRIVEN STEEL PIPE PILES.
 - SCREW PILES MUST HAVE A MINIMUM SHAFT DIAMETER OF 5", MINIMUM WALL THICKNESS OF 3/8", AND A MINIMUM HELIX DIAMETER OF 12".
 - A. SCREW PILES SHALL HAVE A MINIMUM SERVICE LOAD COMPRESSIVE CAPACITY OF 100K AND A MINIMUM SERVICE LOAD UPLIFT CAPACITY OF 25K, WITH A FACTOR OF SAFETY = 2.0.
 - SPLICED OF PIPE SECTIONS MUST HAVE THE CAPACITY TO RESIST THE SERVICE LOADS NOTED ABOVE TIMES THE FACTOR OF SAFETY.
 - SCREW PILES MUST BE DRILLED TO REFUSAL INTO THE UNDERLYING DENSE GRAVEL & COBBLE LAYER. THE AVERAGE LENGTH OF PILES SHOULD BE ASSUMED AT A MINIMUM OF 49 FEET.
 - SOILS ENGINEER OF RECORD SHALL BE PRESENT DURING PILE DRIVING TO VERIFY THAT BEARING STRATA HAS BEEN REACHED AND THAT SOIL CAPACITIES HAVE BEEN ATTAINED.
- SPECIAL INSPECTIONS:
 - SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SCHEDULE ON SHEET S0-2.
- ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH SHOP DRAWING PREPARATION AND CONSTRUCTION.
- VERIFY ALL OPENINGS THROUGH FLOORS, ROOF, AND WALLS WITH MECHANICAL AND ELECTRICAL REQUIREMENTS.
- DEFERRED SUBMITTALS:
 - DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER AND SUBMITTED TO THE BUILDING OFFICIAL AS REQUIRED BY 2018 I.B.C. 107.3.4.1.
 - DEFERRED SUBMITTAL ITEMS INCLUDE:
 - STRUCTURAL STEEL CONNECTIONS
 - K-SERIES AND LH-SERIES STEEL OPEN-WEB JOISTS.
 - METAL STAIRS AND RAILINGS

GENERAL NOTES

- GOVERNING CODES USED FOR DESIGN:
 - 2018 INTERNATIONAL BUILDING CODE
 - ASCE/SEI 7-16
 - LIVE LOADS USED IN DESIGN:
 - ROOF:
 - FLAT ROOF SNOW LOAD Pf -----30 PSF
 - GROUND SNOW LOAD Pg -----36 PSF
 - SNOW EXPOSURE FACTOR Ce -----1.0
 - SNOW LOAD IMPORTANCE FACTOR Is -----1.2
 - THERMAL FACTOR Ct -----1.0
 - STORAGE ROOMS -----125 PSF
 - STAIRS -----100 PSF
 - LIVING/OFFICE -----50 PSF
 - COORIDORS -----100 PSF
 - WIND:
 - EXPOSURE -----C
 - RISK CATEGORY -----IV
 - Vs -----120 MPH
 - Vs30 -----93 MPH
 - COMPONENTS AND CLADDING (BASED ON EFFECTIVE AREA = 18 SQ. FT.)
 - TYPICAL WALL AREA (INWARD PRESSURE) -----16 PSF
 - TYPICAL WALL AREA (OUTWARD PRESSURE) -----16 PSF
 - WALL CORNERS (OUTWARD PRESSURE) -----20 PSF
 - TYPICAL ROOF AREA (OUTWARD PRESSURE) -----22 PSF
 - ROOF EAVES, RAKES, RIDGES & CORNERS (OUTWARD PRESSURE) -----31 PSF
 - PARAPETS (INWARD OR OUTWARD PRESSURE) -----29 PSF
 - SEISMIC:
 - RISK CATEGORY -----IV
 - IMPORTANCE FACTOR (Ie) -----1.50
 - R COEFFICIENT:
 - APPARATUS BAY -----2.0
 - LIVING QUARTERS AND OFFICES -----7.0
 - SPECTRAL RESPONSE COEFFICIENTS:
 - Ss -----0.241
 - S1 -----0.066
 - SDS -----0.257
 - SD1 -----0.105
 - SEISMIC RESPONSE COEFFICIENTS:
 - Cs (APPARATUS BAY) -----0.193
 - Cs (LIVING/OFFICE) -----0.055
 - SITE CLASS -----D
 - SEISMIC DESIGN CATEGORY -----C
 - BASIC SEISMIC:
 - FORCE RESISTING SYSTEM:
 - APPARATUS BAY AND LOCKER ROOMS -----ORDINARY REINFORCED MASONRY SHEAR WALLS
 - LIVING QUARTERS AND OFFICES -----WOOD STRUCTURAL PANEL SHEAR WALLS
 - DESIGN BASE SHEAR -----140K
 - ANALYSIS PROCEDURE -----EQUIVALENT LATERAL FORCE PROCEDURE
 - CONCRETE:
 - CONCRETE MIX TABLE (NORMAL WEIGHT CONCRETE):

INTENDED USE	28 DAY STRENGTH F'C (KSI)	MAX W/C (INCLUDING FLY ASH)	MAX AGGR. (IN)	SUMP LIMITS (IN) (+/- 1")	TOTAL AIR LIMITS (%) (2)	CEMENT TYPE	CONCRETE TYPE (MIN. WEIGHT/LIGHTWEIGHT)	REQ'D ADMIXTURES (3)	OTHER REQUIREMENTS (4)
PILE CAPS, GRADE BEAMS, & PILASTERS	4.5	0.45	3/4	4	6	I/II	NW	AE	FAR
INTERIOR SLABS ON GRADE	3.5	0.62	1	4	N	I/II	NW	FAR	SOG
PIPE PILE FILL	3	0.68	3/4	7	N	I/II	NW	--	--
- NOTES:**
- FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZES PER ASTM C33:
 - 3/4" - #57 AGGREGATE
 - 1" - #57 AGGREGATE
 - TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. 'N' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED.
 - ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS:
 - AE = AIR ENTRAINING ADMIXTURE. DO NOT USE ENTRAINED AIR FOR STEEL EXPOSED FINISHED FLOORS.
 - WRA = WATER REDUCING ADMIXTURE.
 - ABBREVIATIONS FOR OTHER REQUIREMENTS AS FOLLOWS:
 - FAR = 15% CLASS F FLY ASH REQUIRED.
 - SOG = CONTRACTOR TO VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING. AMOUNT OF CEMENTITIOUS MATERIALS LISTED SHALL BE PROVIDED, DO NOT USE LESS AND DO NOT SUPPLY OVER 5% MORE.
 - FOR CONCRETE PLACED BY PUMPING, PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING.
 - MINIMUM CEMENTITIOUS MATERIALS SHALL BE 560 LB./CU. YD., WITH A MAXIMUM 20% FLY ASH CONTENT BY WEIGHT OF CEMENTITIOUS MATERIALS. MAXIMUM WATER SOLUBLE CHLORIDE ION CONTENT SHALL NOT EXCEED 0.1% BY WEIGHT OF CEMENT.
 - ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT COLUMN TIES, BEAM STIRRUPS, AND DOWELS TO SLAB ON GRADE WHICH MAY BE GRADE 40.
 - NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS, LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 40 BAR DIAMETERS. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
 - CONTINUOUS REINFORCEMENT IN GRADE BEAMS SHALL BE SPLICED AS FOLLOWS: TOP BARS AT MIDSPAN, BOTTOM BARS AT SUPPORTS.
 - DETAIL BARS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL AND A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITIONS.
 - PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE DRAWINGS. DO NOT ATTEMPT TO POSITION ANY REINFORCEMENT BY LIFTING DURING CONCRETE PLACEMENT.
 - REINFORCEMENT PROTECTION SHALL BE AS FOLLOWS:
 - (1) CONCRETE POURED AGAINST EARTH -----3"
 - (2) FORMED CONCRETE EXPOSED TO EARTH OR WEATHER -----2"
 - (3) FORMED STAIRS OR WALLS NOT EXPOSED TO WEATHER -----3/4"
 - PLACE (2) #5 (ONE EACH FACE) TOP & BOTTOM @ EACH SIDE OF OPENING WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE UNLESS OTHERWISE SHOWN OR NOTED.
 - SLABS, BEAMS, AND GRADE BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT MIDDLE OF SPAN WITH VERTICAL BULKHEADS AND KEYS AS SHOWN PER THE TYPICAL CONCRETE WALL CONSTRUCTION JOINT DETAIL. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.



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**GRAND JUNCTION FIRE
DEPARTMENT - FIRE
STATION #3**

**GRAND JUNCTION, COLORADO
81505**

GENERAL NOTES

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

S0-1

SPECIAL INSPECTIONS:
 A. SPECIAL INSPECTIONS SHALL COMPLY WITH CHAPTER 17 OF THE 2018 I.B.C.
 B. STATEMENT OF REQUIRED SPECIAL INSPECTIONS:

SYSTEM OF COMPONENT	VERIFICATION OF INSPECTION TASK	FREQUENCY (DURING TASK LISTED)		APPLICABLE CODE & SECTION FOR INSPECTION CRITERIA	
		CONTINUOUS	PERIODIC		
1) SOILS	a) VERIFY SOILS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X	--	
	b) VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL	--	X	--	
	c) PERFORM CLASSIFICATION & TESTING OF CONTROLLED FILL MATERIALS	--	X	--	
	d) VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT & COMPLETION OF CONTROLLED FILL	X	--	--	
	e) OBSERVE SUBGRADE FOR PROPER PREPARATION BEFORE PLACEMENT OF CONTROLLED FILL	--	X	--	
2) PILING	a) VERIFY PILE MATERIALS, SIZES AND LENGTHS COMPLY WITH REQUIREMENTS	X	--	--	
	b) OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH PILE	X	--	--	
	c) VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM TYPE & SIZE OF HAMMER, RECORD NUMBER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATION TO ACHIEVE DESIGN CAPACITY, RECORD TIP & BUTT ELEVATIONS & DOCUMENT ANY PILE DAMAGE	X	--	--	
	d) FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 5.	X	--	--	
	e) FOR CONCRETE FILLED ELEMENTS PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 3.	X	--	--	
	f) PERFORM WELD INSPECTIONS AT STEEL PILING SPLICES	X	--	AWS D1.1	
	g) FOR SPECIALTY PILES, IN ADDITION TO THE ABOVE REQUIREMENTS DETERMINE CAPACITIES OF TEST PILES AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED	X	--	--	
	3) CONCRETE	a) INSPECT REINFORCING STEEL	--	X	ACI 318: 3.5, 7.1-7.7
		b) VERIFY USE OF REQUIRED DESIGN MIX	--	X	ACI 318: CH. 4, 5.2-5.4 IBC 1904.2
c) INSPECT REINFORCING STEEL WELDING		--	X	AWS D1.4 ACI 318: 3.5.2	
d) FABRICATE TEST SPECIMENS FROM FRESH CONCRETE FOR STRENGTH TESTS, SLUMP & AIR CONTENT TESTS AND TO DETERMINE CONCRETE TEMPERATURE		X	--	ASTM C172 ASTM C31 ACI 318: 5.6, 5.8	
e) INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		X	--	ACI 318: 5.9, 5.10	
f) INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES		--	X	ACI 318: 5.11- 5.13	
g) INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF CONCRETE MEMBERS BEING FORMED		--	X	ACI 318: 6.1.1	
h) INSPECT ANCHORS CAST INTO CONCRETE.		--	X	ACI 318: 8.1.3, 21.2.8 IBC 1908.5, 1909.1	
i) INSPECT ANCHORS POST-INSTALLED INTO HARDENED CONCRETE MEMBERS.		--	X	ACI 318: 3.8.6, 8.1.3, 21.2.8 IBC 1909.1	
4) WOOD		a) INSPECT FABRICATED WOOD STRUCTURAL MEMBERS ASSEMBLED AT FABRICATOR'S SHOP OR PLANT.	--	X	--
	b) VERIFY MATERIAL SPECIES AND GRADES OF DIMENSIONAL LUMBER AND PLYWOOD OR O.S.B.	--	X	--	
	c) VERIFY BOTTOM CHORD AND OTHER BRACING OF STRUCTURAL MEMBERS.	--	X	--	
	d) INSPECT FOR PROPER FASTENING OF WOOD COMPONENTS.	--	X	IBC TABLE 2304.9.1	
	5) LATERAL BRACING SYSTEM	a) PERIODICALLY INSPECT NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, AND HOLDOWNS.	--	X	--

6) MASONRY	a) VERIFY F'm OF CONCRETE MASONRY UNITS PRIOR TO CONSTRUCTION.	--	X	ACI 530: Art 2.6A
	b) AS MASONRY CONSTRUCTION BEGINS VERIFY THE FOLLOWING TO ENSURE COMPLIANCE: - PROPORTIONS OF SITE -- PREPARED MORTAR	--	X	ACI 530: Art 1.4B
	- CONSTRUCTION OF MORTAR JOINTS	--	X	ACI 530: Art 3.3B
	- LOCATION OF REINFORCEMENT CONNECTORS & ANCHORAGES	--	X	ACI 530: Art 3.4, 3.6A
	c) THE INSPECTION PROGRAM SHALL VERIFY: - SIZE & LOCATION OF STRUCTURAL ELEMENTS	--	X	ACI 530: Art 3.36
	- TYPE, SIZE & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS	--	X	ACI 530: SECTION 1.22(e), 7.1.4, 3.1.6
	- SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT	--	X	ACI 530: SECTION 1.13, Art 2.4, 3.4
	- WELDING OF REINFORCING BARS	X	--	ACI 530: SECTION 2.1.10.7.2, 3.3.34(B)
	- PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40°F) OR HOT WEATHER (TEMP ABOVE 90°F)	--	X	IBC 2104.3, 2104.4 ACI 530 Art 1.8C, 1.8D
	d) PRIOR TO GROUTING, VERIFY THE FOLLOWING TO ENSURE COMPLIANCE: - GROUT SPACE IS CLEAR	--	X	ACI 530: Art 3.2D
	- PLACEMENT OF REINFORCEMENT, CONNECTORS & ANCHORAGES	--	X	ACI 530: SECTION 1.13, Art 3.4
	- PROPORTIONS OF SITE PREPARED GROUT	--	X	ACI 530: Art 2.6B
	- CONSTRUCTION OF MORTAR JOINTS	--	X	ACI 530: Art 3.3B
	e) VERIFY GROUT PLACEMENT TO ENSURE COMPLIANCE WITH CODE & CONSTRUCTION DOCUMENT PROVISIONS	X	--	ACI 530: Art 3.5
	f) OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS	X	--	IBC 2105.2.2, 2105.3
g) VERIFY COMPLIANCE WITH INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND COMPLIANCE WITH THE APPROVED SUBMITTALS	--	X	ACI 530: Art 1.5	
7) STEEL	a) MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS & WASHERS - IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	APPLICABLE ASTM MATERIAL SPEC. AISC 360, SECTION A3.3
	- MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	--	X	--
	b) INSPECTION OF HIGH-STRENGTH BOLTING OF BEARING TYPE CONNECTIONS	--	X	AISC 360, SECTION M2.5 IBC SECTION 1704.3.3
	c) MATERIAL VERIFICATION OF STRUCTURAL STEEL: - IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	ASTM A6 OR A568 IBC SECTION 1708.4
	- MANUFACTURER'S CERTIFIED MILL TEST REPORTS	--	X	ASTM A6 OR A568 IBC SECTION 1708.4
	d) MATERIAL VERIFICATION OF WELD FILLER MATERIALS: - IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	AISC 360, SECTION A3.5
	- MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	--	X	--
	e) INSPECTION OF WELDING 1) COMPLETE & PARTIAL PENETRATION GROOVE WELDS	X	--	AWS D1.1 AISC 360 N5.4-N5.5
	2) MULTI-PASS FILLET WELDS	X	--	AWS D1.1 AISC 360 N5.4-N5.5
	3) SINGLE PASS FILLET WELDS > 5/16"	X	--	AWS D1.1 AISC 360 N5.4-N5.5
	4) SINGLE PASS FILLET WELDS < 5/16"	--	X	AWS D1.1 AISC 360 N5.4-N5.5
	5) FLOOR & ROOF DECK WELDS	--	X	AWS D1.3
	f) STUD SHEAR CONNECTOR SIZES, SPACING, MATERIALS & QUANTITY	X	--	AISC 360, SECTION N6
	g) WELDING OF STUD SHEAR CONNECTORS	--	X	AWS D1.1
	h) INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS	--	X	AISC 360 N5.7

8) STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	a) MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: 1) IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	APPLICABLE ASTM MATERIAL SPEC.	
	2) MANUFACTURER'S CERTIFIED TEST REPORTS	--	X	--	
	b) INSPECTION OF WELDING: 1) COLD-FORMED STEEL DECK: a) FLOOR AND ROOF DECK WELDS	--	X	AWS D1.3	
	2) REINFORCING STEEL a) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	--	X	AWS D1.4 ACI 318: SECTION 3.5.2	
	b) SHEAR REINFORCEMENT	X	--	AWS D1.4 ACI 318: SECTION 3.5.2	
	c) OTHER REINFORCING STEEL	--	X	AWS D1.4 ACI 318: SECTION 3.5.2	
	9) SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	a) STRUCTURAL STEEL - INSPECTION OF STRUCTURAL STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM	--	X	AISC 341
	b) TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE - TEST STRUCTURAL STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM IN ACCORDANCE WITH AISC QUALITY ASSURANCE REQUIREMENTS	--	X	AISC 341	
	- VERIFY STEEL REINFORCEMENT USED IN CONCRETE ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM BY CERTIFIED MILL TEST REPORTS FOR EACH SHIPMENT OF REINFORCEMENT	--	X	ACI 318, SECTION 21.1.5.2	
	- FOR WELDED REINFORCING STEEL OTHER THAN ASTM A706 IN CONCRETE ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM, PERFORM CHEMICAL TESTS TO VERIFY WELDABILITY	--	X	ACI 318, SECTION 3.5.2	
c) INSPECTION AND SEISMIC CERTIFICATION OF NON-STRUCTURAL COMPONENTS 1) INSPECT INSTALLATION AND ANCHORAGE OF MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING ANCHORAGE AGAINST SEISMIC FORCES	--	X	IBC SECTION 1705.11.6, ASCE 7, SECTION 13.6		
2) CERTIFY BY TESTING OR EXPERIENCE DATA THAT MECHANICAL AND ELECTRICAL EQUIPMENT WILL REMAIN OPERABLE FOLLOWING THE DESIGN SEISMIC GROUND MOTION	--	X	IBC SECTION 1705.11.4, IBC SECTION 1705.12.3		
a) FOR SYSTEMS REQUIRING SEISMIC CERTIFICATION, VERIFY THAT LABELS, ANCHORAGE, OR MOUNTING CONFORM TO THE CERTIFICATE OF COMPLIANCE	--	X	IBC SECTION 1705.12.3, ASCE 7, SECTION 13.2		
3) INSPECT FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES IN SEISMIC ISOLATION SYSTEMS	--	X	IBC SECTION 1705.11.8		
4) TEST SEISMIC ISOLATION SYSTEMS	--	X	ASCE 7, SECTION 17.8		



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 81505

SCHEDULE OF SPECIAL
 INSPECTIONS

FOR CONSTRUCTION

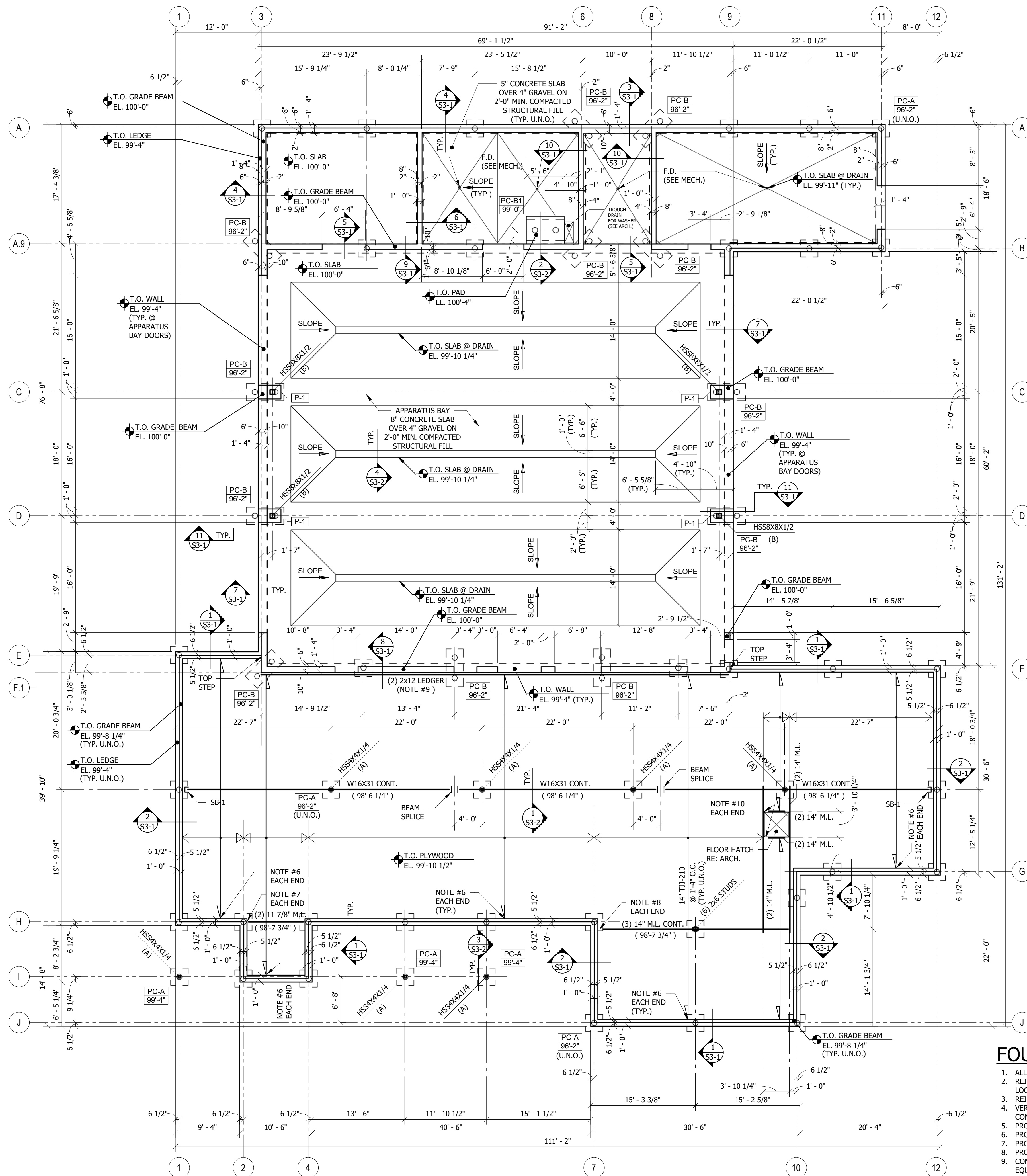
REV. DESC. DATE:

DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

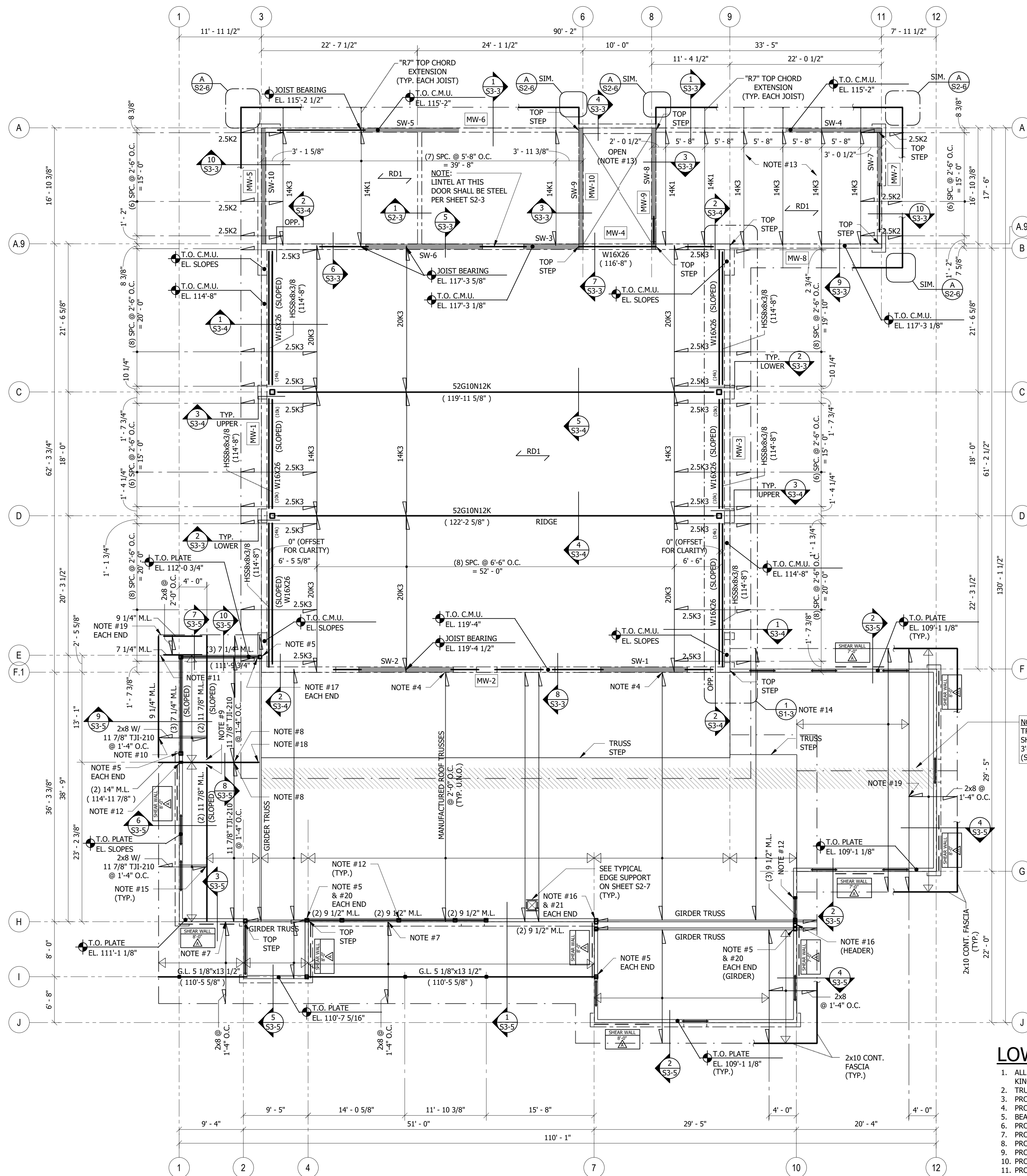
S0-2



FOUNDATION PLAN

1/8" = 1'-0" NORTH

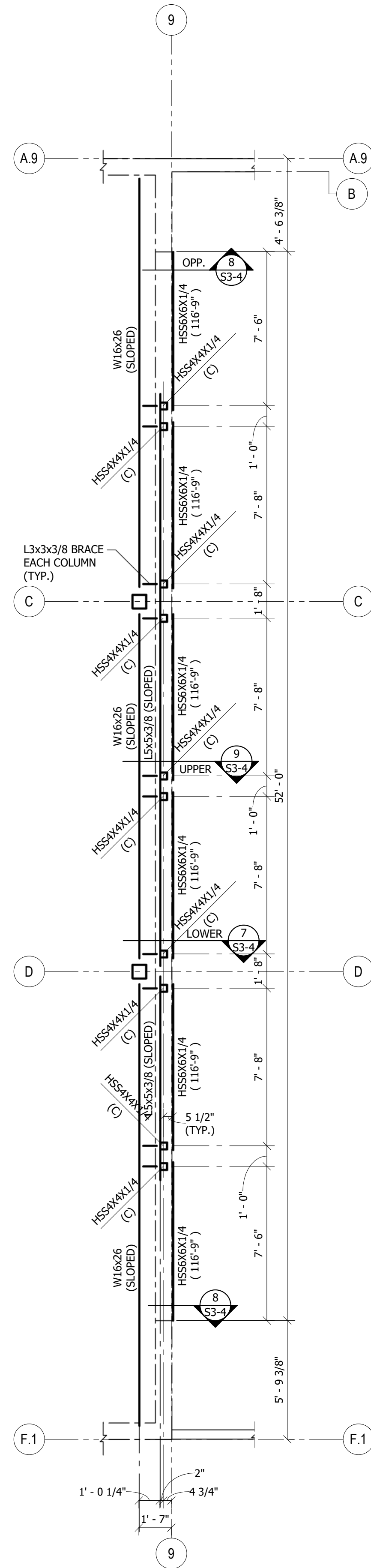
1. ALL PILE CAPS SHALL BE CENTERED ON GRADE BEAMS (TYP. U.N.O.).
2. REINFORCE 5" CONCRETE SLABS ON GRADE W/ #4 @ 16 EA. WAY. PLACE REINFORCEMENT IN TOP HALF OF SLAB ON CHAIRS. DO NOT LOCATE REINFORCEMENT BY LIFTING DURING CONCRETE PLACEMENT.
3. REINFORCE 8" CONCRETE SLAB W/ #4 @ 10 EACH WAY, TOP AND BOTTOM. OMIT CONTROL JOINTS AT 8" SLAB.
4. VERIFY DOOR OPENING LOCATIONS AND ROUGH OPENING DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
5. PROVIDE (2) #5x 2'-0" TOP AT DOOR DEPRESSIONS. PROVIDE #4x 2'-0" DOWELS @ 16" O.C. INTO INTERIOR SLABS.
6. PROVIDE TYPE "ITS2.06/14" TOP FLANGE HANGER.
7. PROVIDE TYPE "MBHU3.56" HANGER.
8. PROVIDE TYPE "HGUM5.50-SDS" HANGER.
9. CONT. (2) 2x12 LEDGER W/ (2) 3/4" HILTI HAS-E ANCHORS @ 1'-4" O.C. W/ 8" MIN. EMBEDMENT (PROVIDE HILTI HIT HY 200 OR EQUAL).
10. PROVIDE TYPE "IUS3.56/14" HANGER.



LOW ROOF FRAMING PLAN

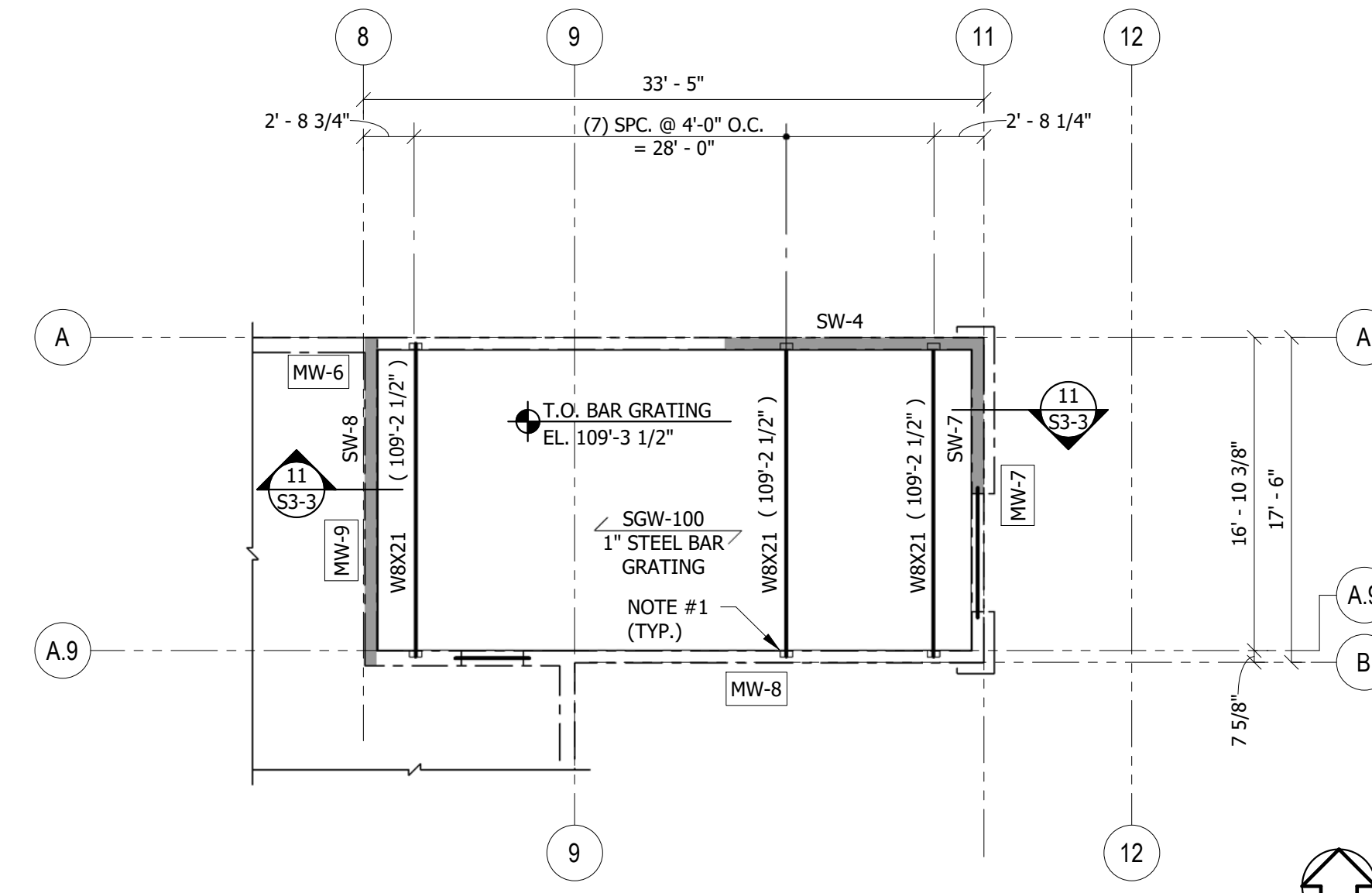
1/8" = 1'-0" NORTH

- ALL EXTERIOR WINDOW AND DOOR HEADERS IN WOOD FRAMED WALLS SHALL BE (2) 2x10. BEAR EACH END ON (1) 2x6 TRIMMER W/ (1) 2x6 KING STUD (TYP. U.N.O.).
- TRUSS MANUFACTURER SHALL SPECIFY ALL WOOD TRUSS HANGER CONNECTIONS.
- PROVIDE JOIST BRIDGING IN ACCORDANCE WITH S.J.I. SPECIFICATIONS.
- PROVIDE TYPE "HU210" HANGER. ATTACH TO C.M.U. W/ (8) 1/4"Ø x 2 3/4" TITAN MASONRY SCREWS.
- BEAR ON (4) 2x6 STUDS.
- PROVIDE BEAM POCKETS. SEE SHEET S2-3 & APPLICABLE SECTIONS. GROUT SOLID BELOW BEAM BEARING TO FOUNDATION.
- PROVIDE TYPE "LSS28" HANGER.
- PROVIDE TYPE "LSSR2.12" HANGER.
- PROVIDE TYPE "LSSR4102" HANGER.
- PROVIDE TYPE "LUS26" HANGER UPSIDE-DOWN.
- PROVIDE TYPE "HU7" HANGER UPSIDE-DOWN.
- BEAR ON (2) 2x6 STUDS.
- SEE SHEET S1-3 FOR MEZZANINE & TOWER ROOF FRAMING PLANS.
- SEE SHEET S1-3 FOR LOUVER SUPPORT FRAMING PLAN.
- PROVIDE TYPE "IUS3.56.11.88" HANGER UPSIDE-DOWN.
- BEAR ON (6) 2x6 STUDS.
- PROVIDE TYPE "HUC68" HANGER.
- PROVIDE TYPE "HUC416" HANGER.
- PROVIDE TYPE "L50" CLIP.
- PROVIDE TYPE "HTS16" STRAP TO CONNECT GIRDER TRUSS TO STUD PACK.
- PROVIDE TYPE "HTS16" STRAP EACH SIDE OF GIRDER TRUSS.



1
S1-3 **LOUVER SUPPORT FRAMING PLAN**

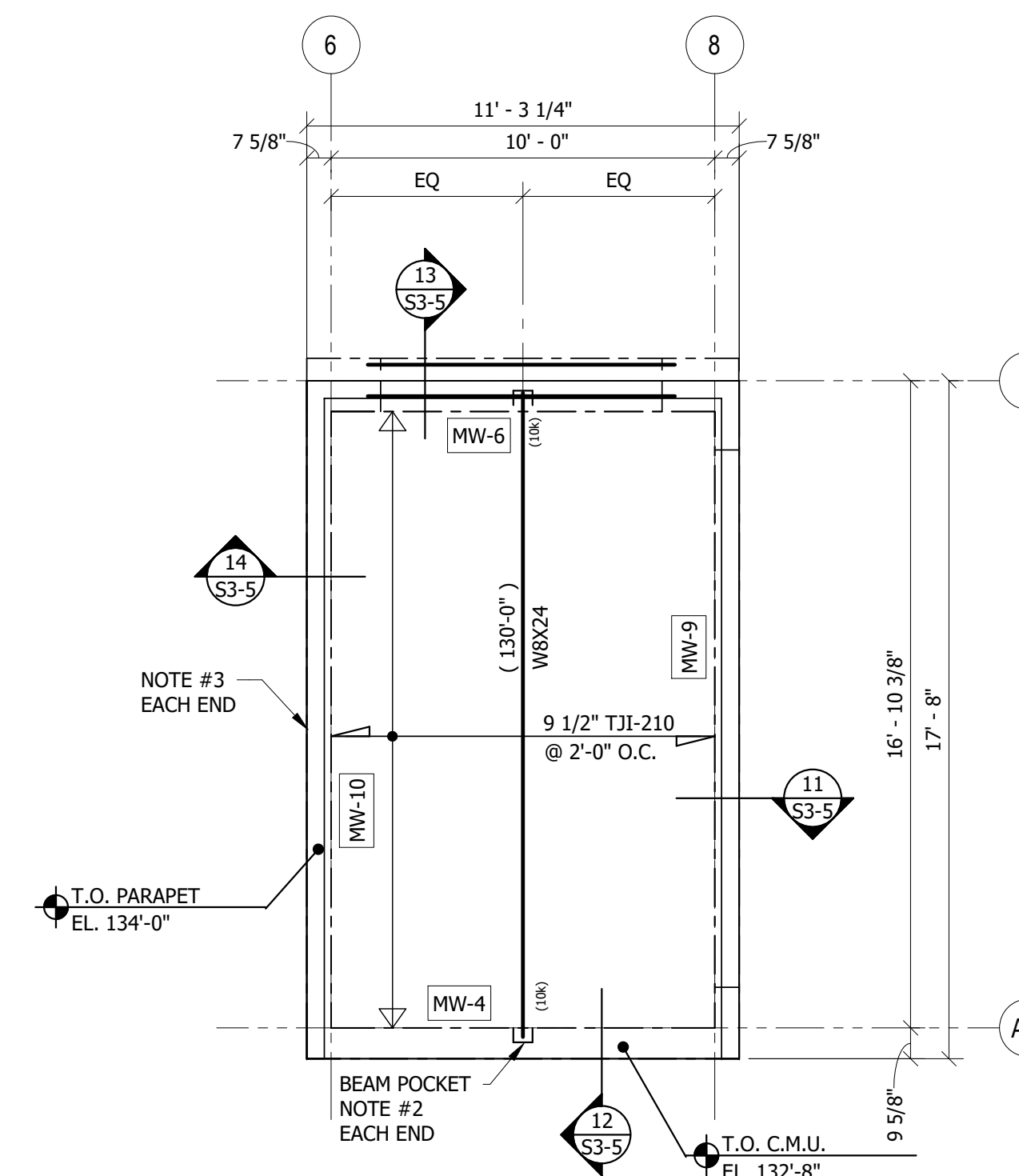
1/4" = 1'-0" NORTH



MEZZANINE FRAMING PLAN

1/8" = 1'-0" NORTH

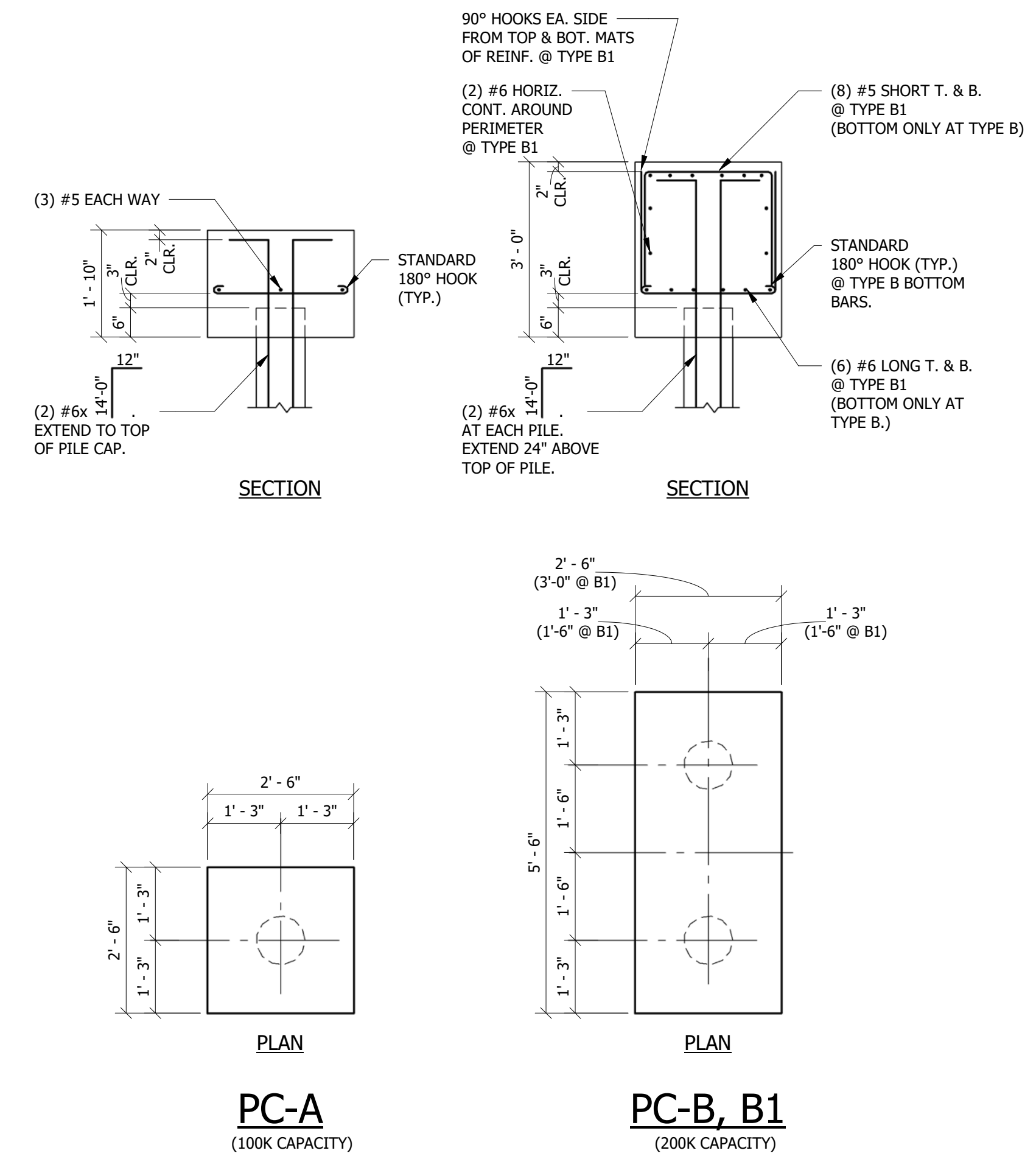
1. SEE SHEET S2-3 FOR BEAM BEARING DETAILS.
2. BAR GRATING SHALL BE 1/8" x 1" x 1 3/16" SPACING "GW-100A" BY MC NICHOLS (OR EQUAL). SPLICE AS REQUIRED AT SUPPORT BEAM CENTERS.
3. ATTACH GRATING TO STEEL SUPPORTS W/ TYPE "GGIA" SADDLE CLIPS BY MC NICHOLS (OR EQUAL). FASTENERS SHALL BE USED AT EACH EDGE OF GRATING PANEL @ EVERY SUPPORT (TYP.).



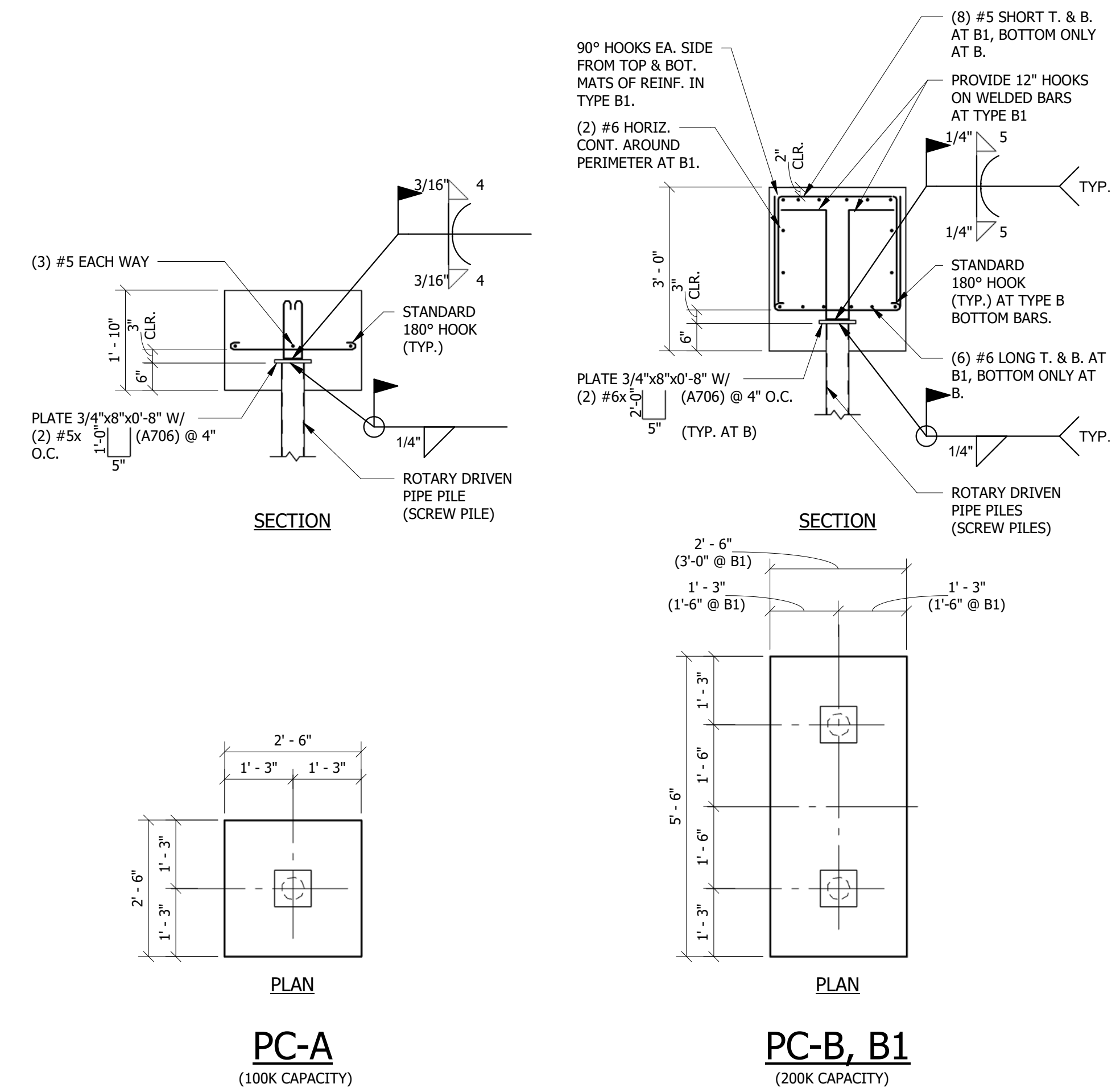
TOWER ROOF FRAMING PLAN

1/4" = 1'-0" NORTH

1. TOP OF STEEL ELEVATION NOTED THUS: (XXX'-XX").
2. SEE BEAM BEARING PLATE SCHEDULE ON SHEET S2-3.
3. PROVIDE TYPE "ITS2.06/9.5" TOP FLANGE HANGER.



TYPICAL PILE CAP DETAILS - BASE BID 1/2" = 1'-0"

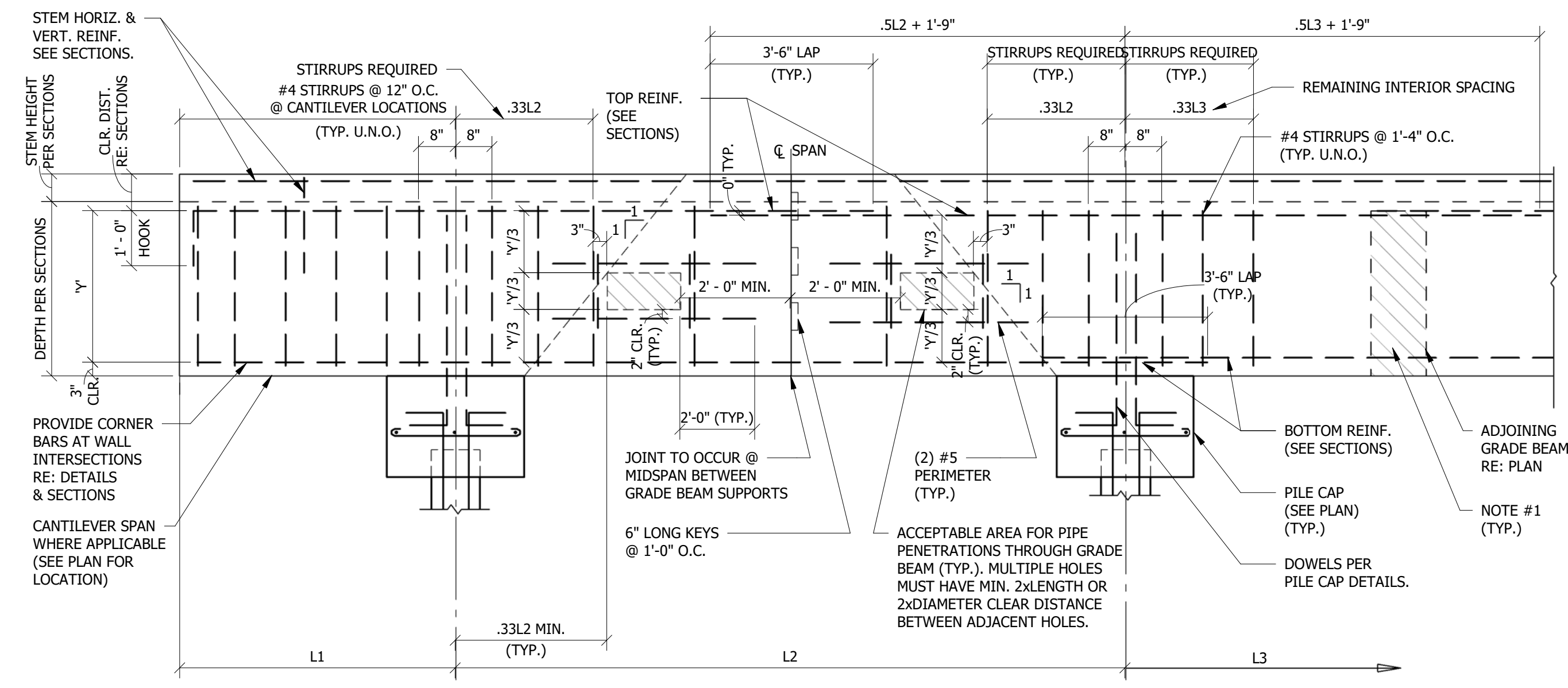


ROTARY DRIVEN PIPE PILE CAP DETAILS - BID ALTERNATE #1 1/2" = 1'-0"

BAR SIZE		F _c = 3,000						F _c = 4,000						F _c = 5,000								
		COMPRESSION		TENSION		TENSION		COMPRESSION		TENSION		TENSION		COMPRESSION		TENSION						
ENGLISH	METRIC	LCE	LCS	LDH	LTE TOP	LTE OTHER	LTS TOP	LTS OTHER	LCE	LCS	LDH	LTE TOP	LTE OTHER	LTS TOP	LTS OTHER	LCE	LCS	LDH	LTE TOP	LTE OTHER	LTS TOP	LTS OTHER
#3	#10	8	12	6	21	16	28	21	8	12	6	18	14	24	18	8	12	6	17	13	22	17
#4	#13	11	15	8	28	22	37	28	9	15	7	25	19	32	25	9	15	6	22	17	29	22
#5	#16	14	19	10	36	27	46	36	12	19	8	31	24	40	31	11	19	7	28	21	36	28
#6	#19	16	23	12	43	33	56	43	14	23	10	37	28	48	37	14	23	9	33	25	43	33
#7	#22	19	26	13	62	48	81	62	17	26	12	54	42	70	54	16	26	10	48	37	63	48
#8	#25	22	30	15	71	55	93	71	19	30	13	62	47	80	62	18	30	12	55	42	72	55
#9	#29	25	34	17	80	62	105	80	21	34	15	70	54	91	70	20	34	13	62	48	81	62
#10	#32	28	38	19	90	70	118	90	24	38	17	78	60	102	78	23	38	15	70	54	91	70
#11	#36	31	42	22	100	77	131	100	27	42	19	87	67	113	87	25	42	17	78	60	101	78

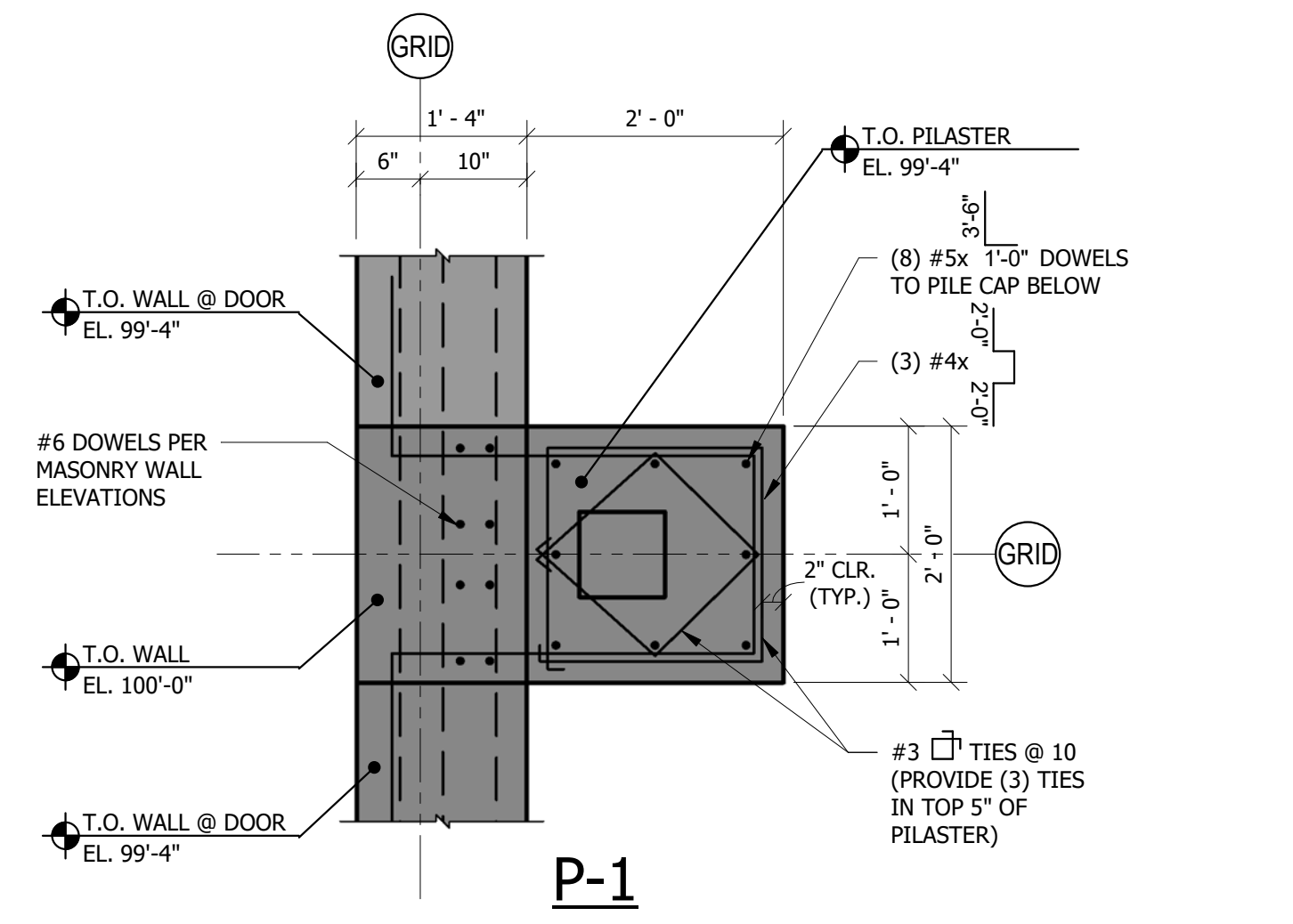
NOTES:
GENERAL:
 1. 'LCE' = COMPRESSION EMBEDMENT LENGTH
 'LCS' = COMPRESSION LAP SPlice LENGTH
 'LTE' = TENSION EMBEDMENT LENGTH
 'LTS' = TENSION LAP SPlice LENGTH
 'LDH' = HOOK DEVELOPMENT LENGTH
 2. 'TOP BARS' ARE ALL HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPlice.
 3. ALL BARS THAT ARE NOT 'TOP' BARS ARE 'OTHER' BARS.
 4. UNLESS NOTED OTHERWISE, ALL HOOK BARS SHALL EXTEND TO THE FAR FACE (LESS 2" COVER) AND HOOK.

LAP SPlice NOTES:
 1. ALL SPlices SHALL BE WIRED IN CONTACT, STACKED VERTICAL.
 2. ALL SPlices ARE 'LTS' UNLESS NOTED OTHERWISE.
 3. SMALLER BAR LENGTH SHALL BE USED WHEN SPlicing DIFFERENT SIZED BARS.
 4. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED.
 5. BUNDLED BAR SPlices:
 A. INDIVIDUAL BAR SPlices WITHIN THE BUNDLE SHALL BE STAGGERED.
 B. INCREASE LAP LENGTH 20% FOR A (3) BAR BUNDLE.
 C. INCREASE LAP LENGTH 33% FOR A (4) BAR BUNDLE.
 6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED (DEVELOPMENT LENGTH) INTO CONCRETE, THIS LENGTH SHALL CORRESPOND TO A 'LTE' LAP.
ADJUSTMENT(S) TO GIVEN LAP LENGTHS:
 1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LAP LENGTHS BY 50%.
 2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP LENGTHS BY 30%.
 3. SCHEDULED LAP LENGTHS ASSUME:
 A. CLEAR COVER IS GREATER THAN BAR DIAMETER, BUT NOT LESS THAN 3/4".
 B. CLEAR SPACING BETWEEN BARS IS GREATER THAN (2) BAR DIAMETERS.
 C. THE TRANSVERSE REINFORCEMENT INDEX K_t IS ASSUMED TO BE ZERO.
 D. IF EITHER CONDITION A OR B IS NOT MET FOR A GIVEN BAR, INCREASE LENGTHS BY 50%.
 4. SPlice LENGTHS NOTED BASED ON F_y = 60,000 PSI. FOR OTHER YIELD STRENGTHS, MULTIPLY SPlice LENGTHS NOTED BY F_y/60,000.
HOOK EMBEDMENT NOTES:
 1. SCHEDULED HOOK EMBEDMENT LENGTHS ASSUME:
 A. SIDE COVER IS 2 1/2 INCHES OR GREATER.
 B. COVER BEYOND IS 2 INCHES OR GREATER.
 2. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LAP LENGTHS BY 20%.
 3. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP LENGTHS BY 30%.
 4. IF SIDE COVER IS LESS THAN 2 1/2 INCHES, INCREASE LENGTHS BY 40%.

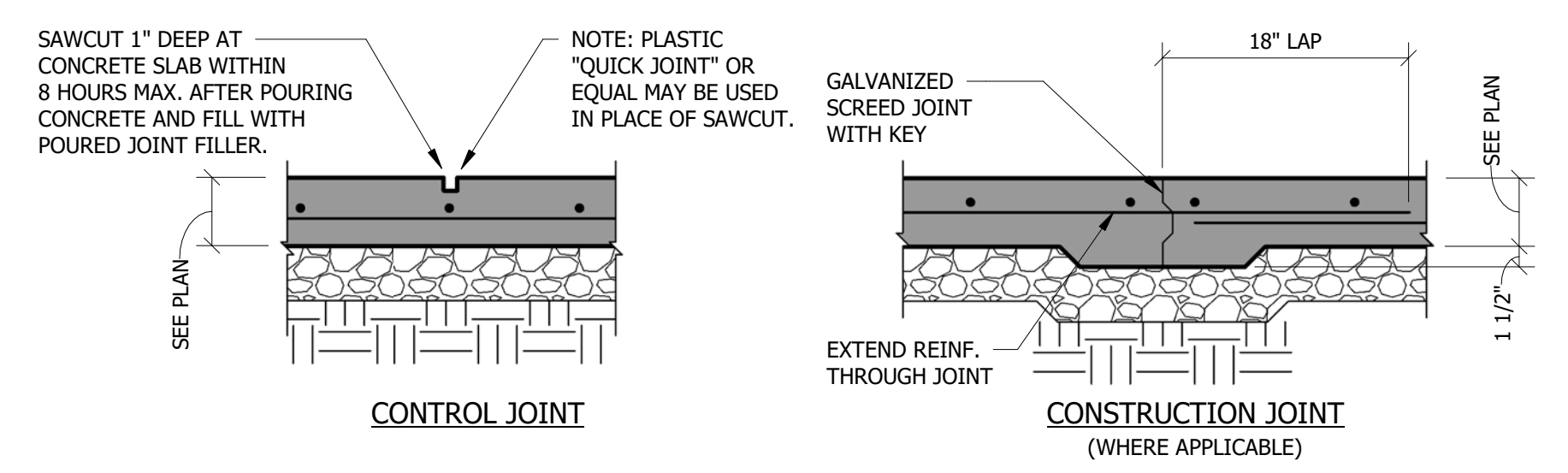


TYPICAL GRADE BEAM ELEVATION N.T.S.

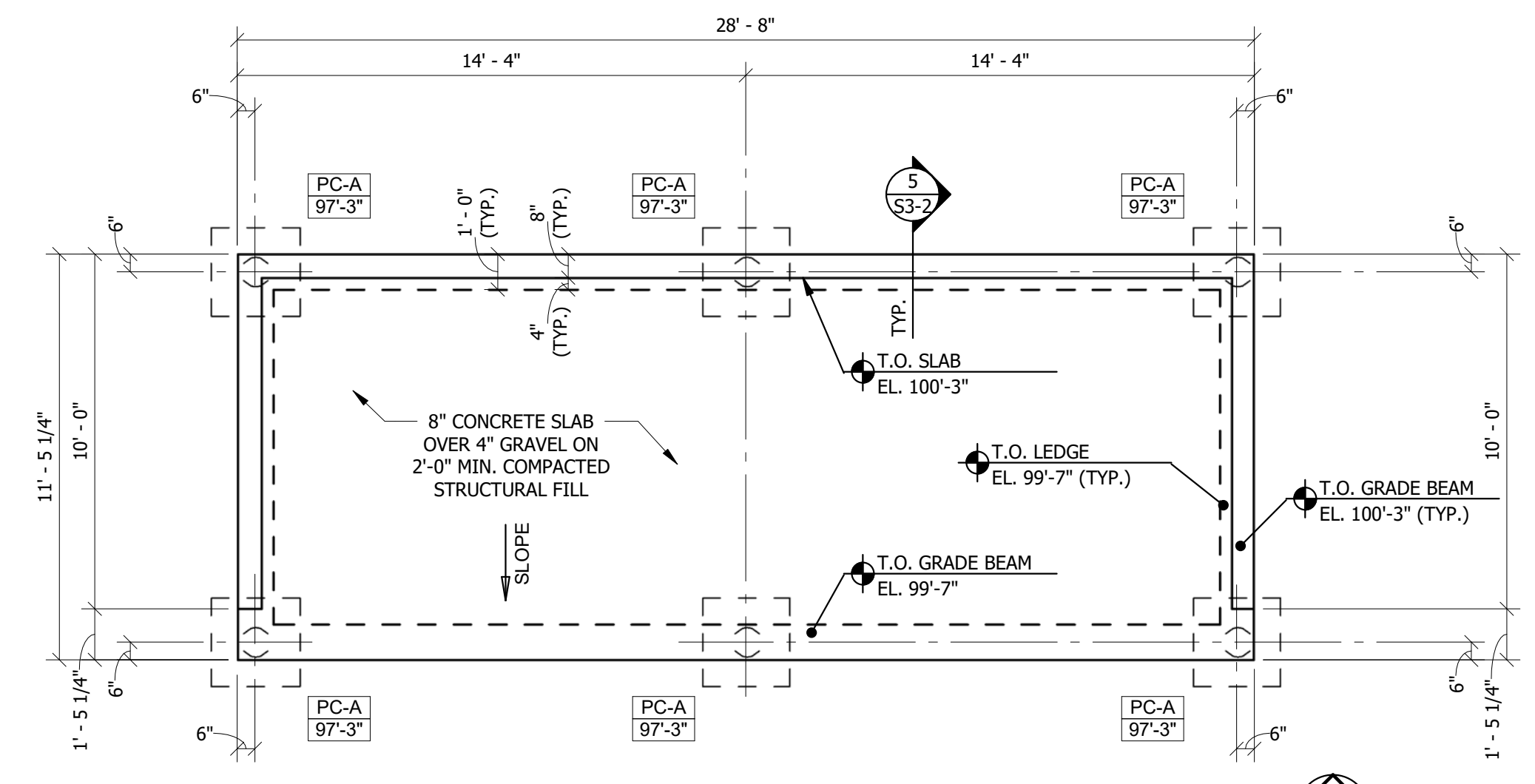
- WHERE ADJOINING PERPENDICULAR GRADE BEAM(S) ATTACH IN THE INTERIOR OF SPANS L2 OR L3 GRADE BEAM, PIPE PENETRATIONS ARE NOT PERMITTED.
- GRADE BEAM PIPE PENETRATIONS ARE NOT PERMITTED AT CANTILEVER LOCATIONS.



PILASTER DETAILS 3/4" = 1'-0"

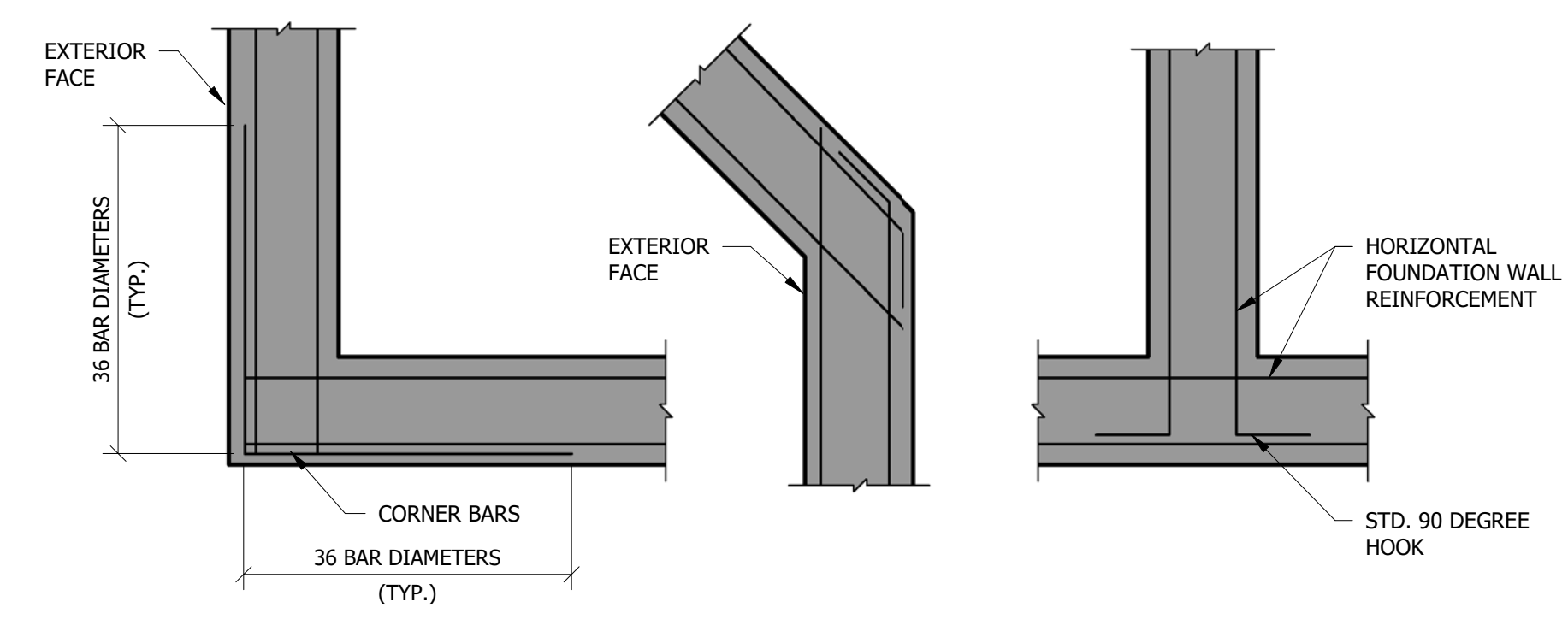


TYPICAL SLAB JOINT DETAILS 1" = 1'-0"



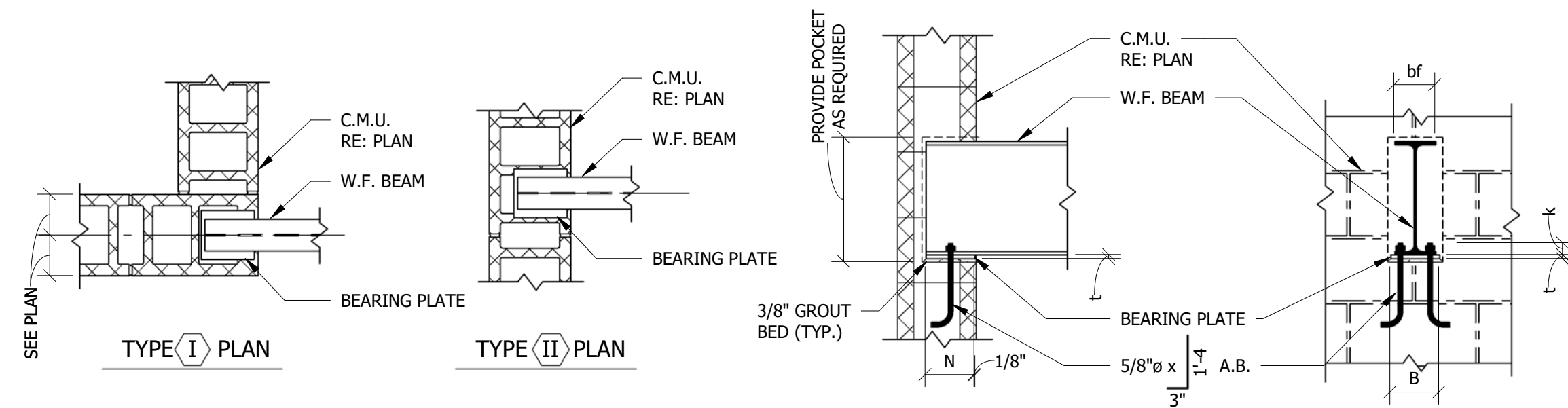
UTILITY ENCLOSURE PLAN 1/4" = 1'-0" NORTH

- SEE ARCH. & CIVIL DRAWINGS FOR LOCATION ON SITE.
- REINFORCE 8" CONCRETE SLAB W/ #4 @ 16 EACH WAY TOP & BOTTOM. DO NOT CUT CONTROL JOINTS IN SLAB.



TYPICAL CORNER DETAILS 1" = 1'-0"

BEAM BEARING PLATES ON C.M.U.



3/4" = 1'-0"

TYPE I							
BEAM DEPTH	CAPACITY (SERVICE) KIPS	MIN. k	MIN. bf	N	B	t	# BOLTS
W8, W10	10	5/8"	4"	4" / 8" / 10"	6"	1/2"	(1)
W10, W12	15	11/16"	4"	6" / 8"	7"	1/2"	(2)
W12, W14	19	7/8"	5"	6" / 8"	7"	1/2"	(2)

- NOTES:
1. CAPACITIES ARE BASED UPON $f_m' = 1,500$ psi. AND MINIMUM MASONRY BEARING (F_p) = .26 f_m' (SPECIAL INSPECTION REQUIRED).
2. F_y OF BEARING PLATES = 36 ksi.
3. SEE TYPICAL CORNER WITH BEAM BEARING FOR C.M.U. CORNER REINFORCING.

3/4" = 1'-0"

TYPE II							
BEAM DEPTH	CAPACITY (SERVICE) KIPS	MIN. k	MIN. bf	N	B	t	# BOLTS
W8, W10	10	5/8"	4"	4" / 6"	6"	1/2"	(1)
W10, W12	15	11/16"	4"	6" / 8"	7"	1/2"	(2)
W12, W14	24	7/8"	5"	6" / 8"	9"	3/4"	(2)
W16, W18	30	1 1/16"	6"	6" / 8"	11"	7/8"	(2)
W18, W21	34	15/16"	6"	6" / 8"	12 1/2"	1"	(2)
W21, W24	38	1 3/8"	7"	6" / 8"	14"	1 1/4"	(2)

- NOTES:
1. CAPACITIES ARE BASED UPON $f_m' = 1,500$ psi. AND MINIMUM MASONRY BEARING (F_p) = .26 f_m' (SPECIAL INSPECTION REQUIRED).
2. F_y OF BEARING PLATES = 36 ksi.

STEEL LOOSE LINTEL SCHEDULE

OPENING	LINTEL		BEARING EA. END	REMARKS
	4" VENEER	8" C.M.U.		
3'-6" OR LESS	L 3 1/2x3x1/4	(2) L 3 1/2x3x1/4	4"	S.L.V.
OVER 3'-6" THRU 5'-6"	L 4x3 1/2x1/4	(2) L 4x3 1/2x1/4	6"	L.L.V.
OVER 5'-6" THRU 7'-6"	L 6x3 1/2x5/16	(2) L 6x3 1/2x5/16	6"	L.L.V.
OVER 7'-6"	SEE PLAN			

1. FOR OPENINGS OVER 6'-0", PROVIDE SOLID MASONRY JAMB UNDER LINTEL EACH SIDE OF OPENING.

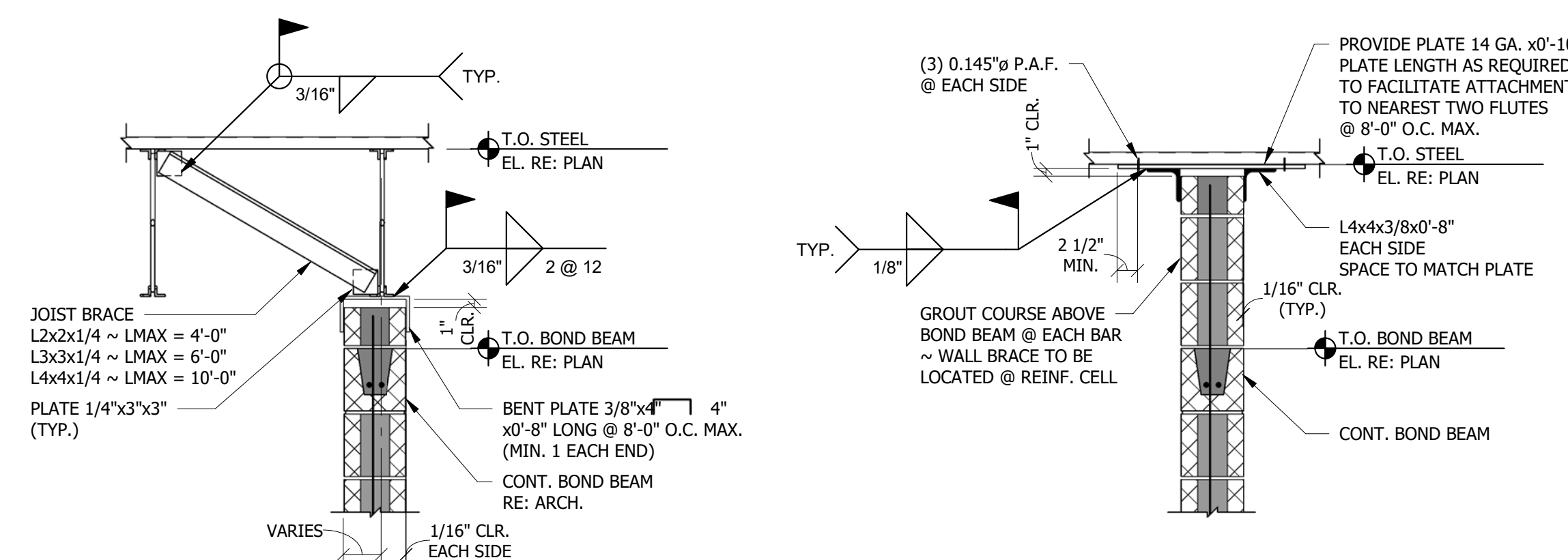
C.M.U. REINFORCING SCHEDULE

- PROVIDE #5 @ 32" VERTICAL REINFORCING AT 8" C.M.U. AND #6 @ 24" VERTICAL REINFORCING AT 10" C.M.U. GROUT ALL VERTICAL REINFORCING SOLID. VERTICAL REINFORCEMENT SHALL EXTEND THROUGH BOND BEAMS TO 2" CLR. BELOW TOP OF C.M.U. USE STANDARD LADDER TYPE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. WITH MINIMUM (2) #9 SIDE RODS AT EACH LADDER.
- PROVIDE (2) #5 CONT. EACH SIDE OF ALL OPENINGS AND CONTROL JOINTS. EXTEND 2'-0" MINIMUM EACH SIDE OF OPENING. GROUT SOLID.
- LAP ALL VERTICAL REINFORCING AS FOLLOWS:
#4 - MINIMUM OF 2'-0"
#5 - MINIMUM OF 2'-4"
#6 - MINIMUM OF 3'-4"
- PROVIDE #5 x 4'-0" DOWELS @ 24" FROM GRADE BEAMS TO 8" C.M.U. LAP 2'-4" WITH WALL VERTICAL REINFORCEMENT AND GROUT SOLID. PROVIDE #6 x 5'-2" DOWELS @ 24" FROM GRADE BEAMS TO 10" C.M.U. LAP 3'-6" WITH WALL VERTICAL REINFORCEMENT AND GROUT SOLID.

ALTERNATE REINFORCED MASONRY LINTEL SCHEDULE

TYPE	CLEAR SPAN	NOMINAL DEPTH	REINF.	TYPICAL DETAIL
A	2'-0" TO 4'-0"	16"	(2) #4 BOT.	
B	4'-4" TO 8'-0"	32"	(2) #5 T.&B.	

- NOTES:
1. CLEAR SPAN INDICATES THE ROUGH MASONRY OPENING WIDTH.
2. PROVIDE 8" MIN. BEARING FOR CLEAR SPAN 8'-0" OR LESS AND 16" MIN. BEARING FOR CLEAR SPAN GREATER THAN 8'-0".
3. EXTEND TOP & BOTTOM REINFORCEMENT 2'-0" BEYOND EDGE OF OPENING EACH SIDE. TERMINATE TOP REINFORCEMENT W/ STD. HOOK AT CONTROL JOINTS OR FREE EDGES.
4. PROVIDE SOLID GROUTED OR SOLID MASONRY JAMB UNDER LINTEL EACH SIDE OF OPENING.



@ PARALLEL TO JOIST

@ ROOF DECK

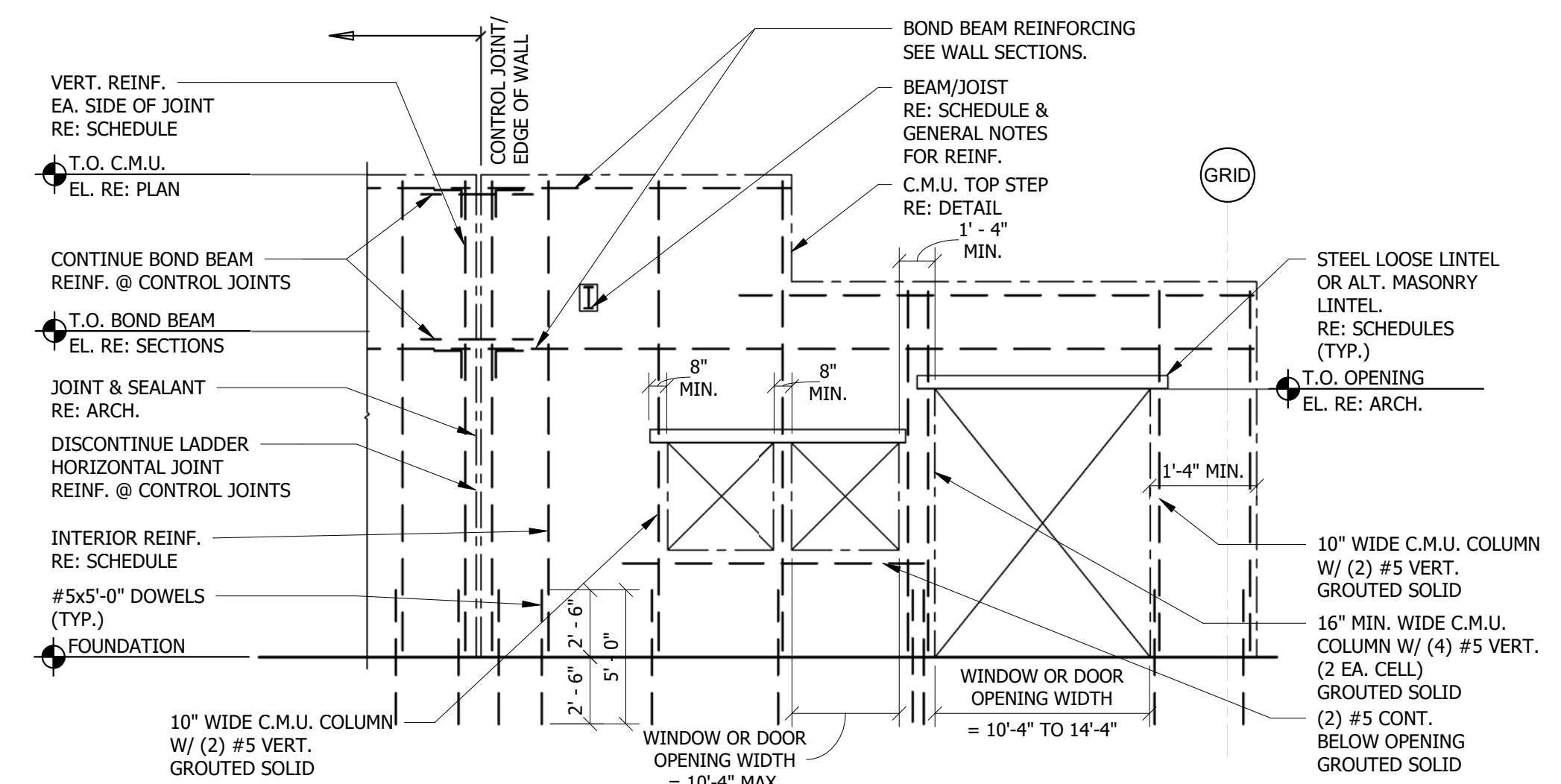
1 TYP. INT. MASONRY WALL CONNECTIONS 3/4" = 1'-0"



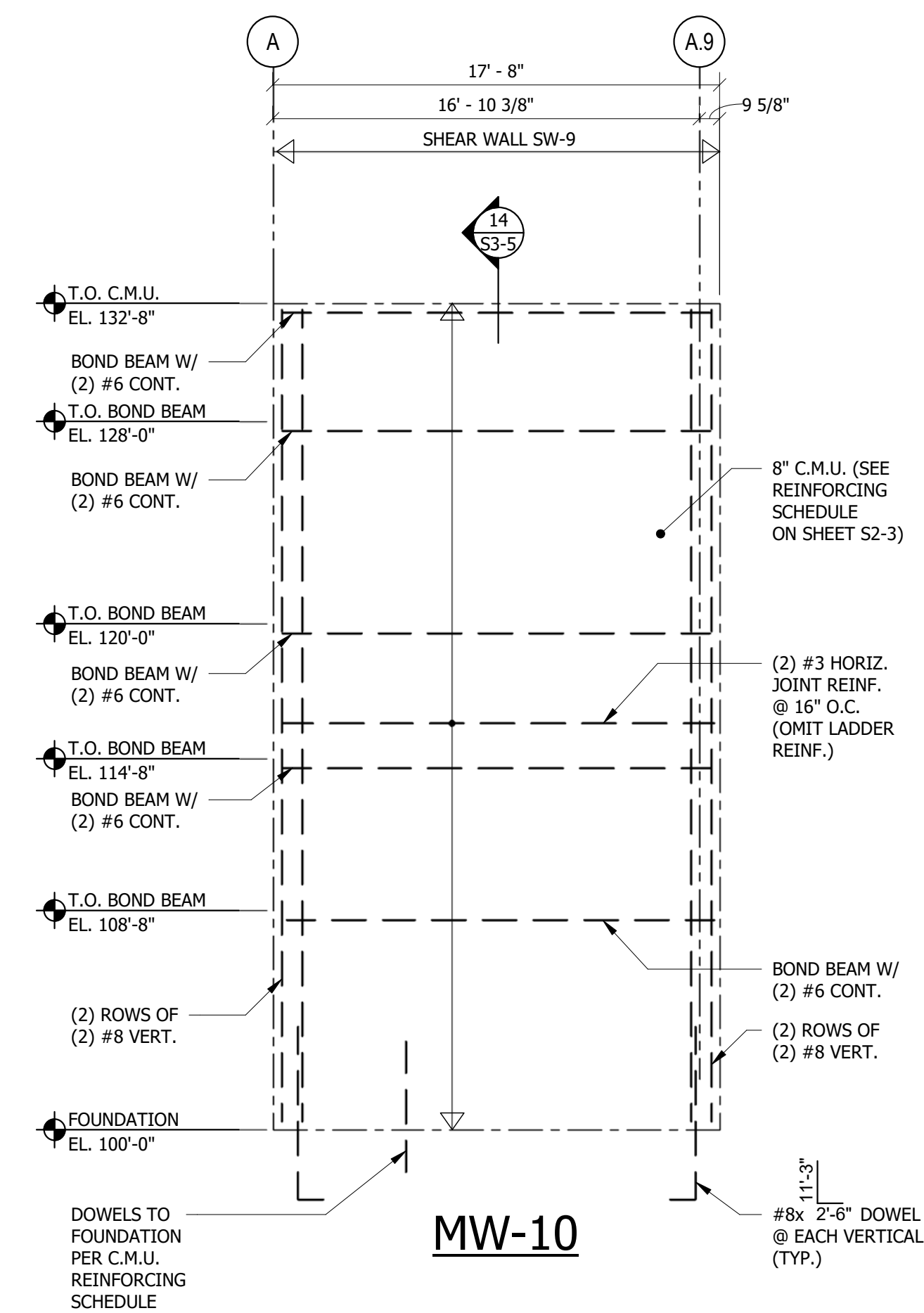
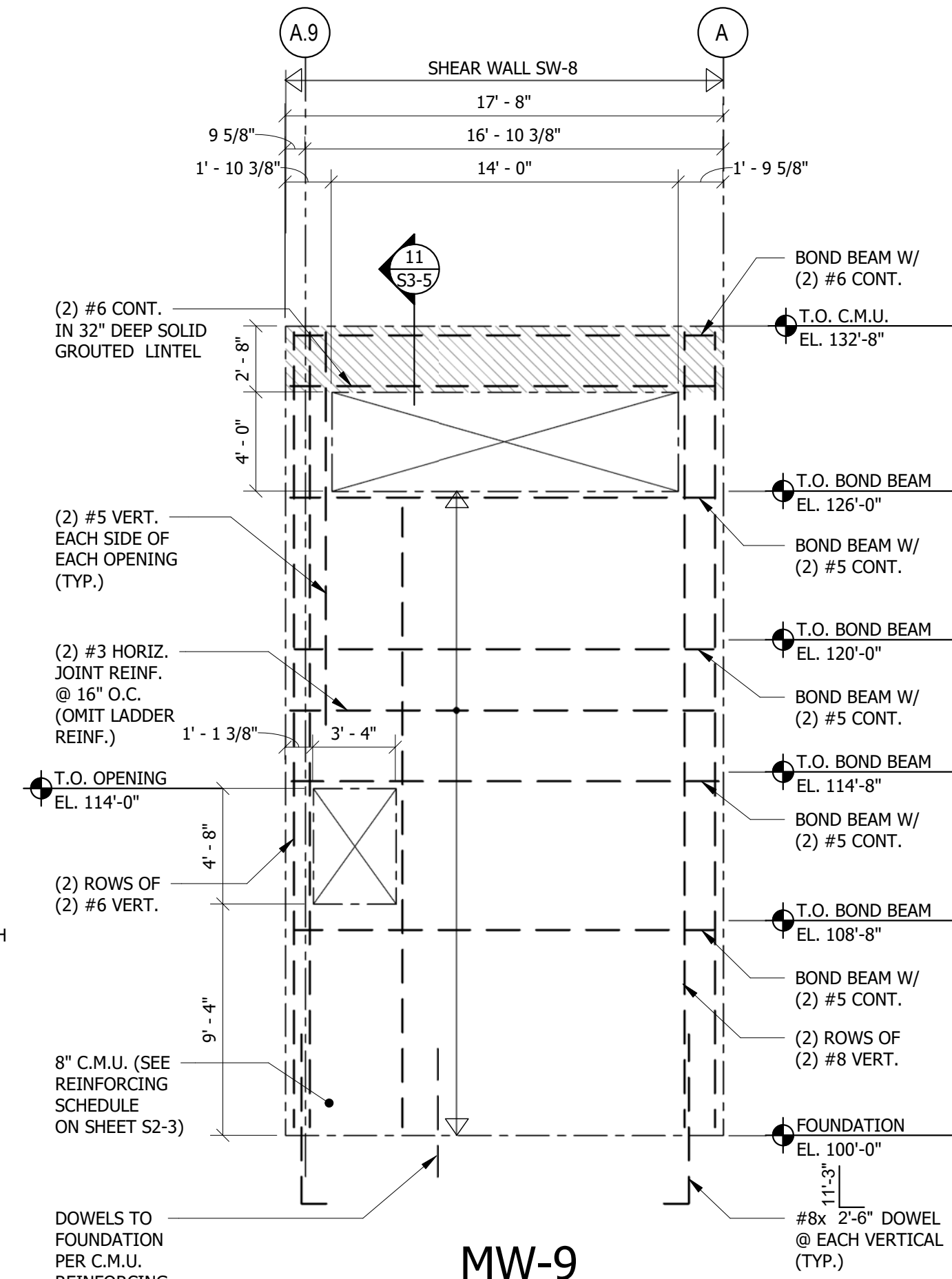
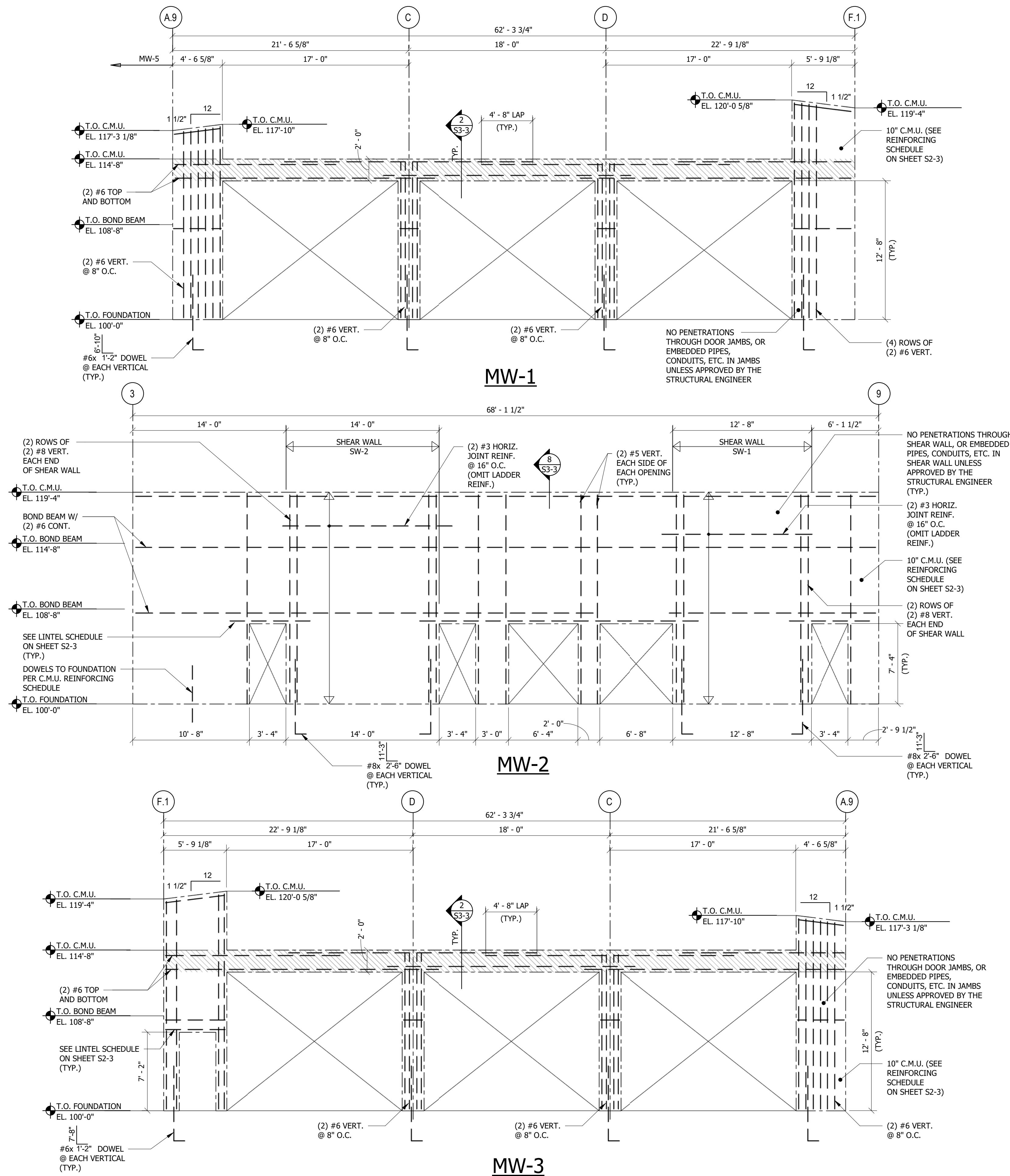
C.M.U. EDGE OPENING 3/4" = 1'-0"

C.M.U. CORNER REINF. 3/4" = 1'-0"

TYP. C.M.U. TOP STEP DETAIL 3/4" = 1'-0"

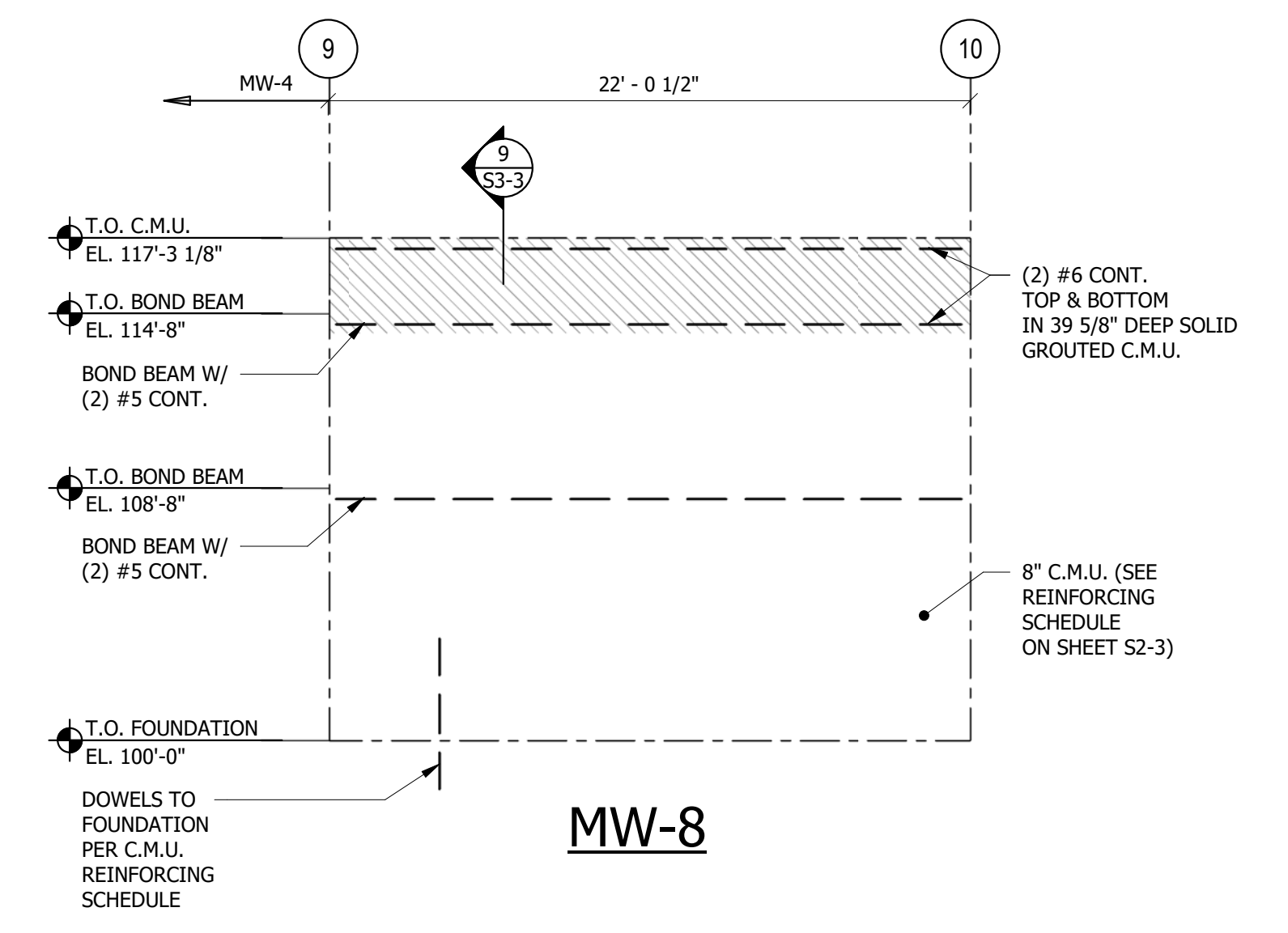
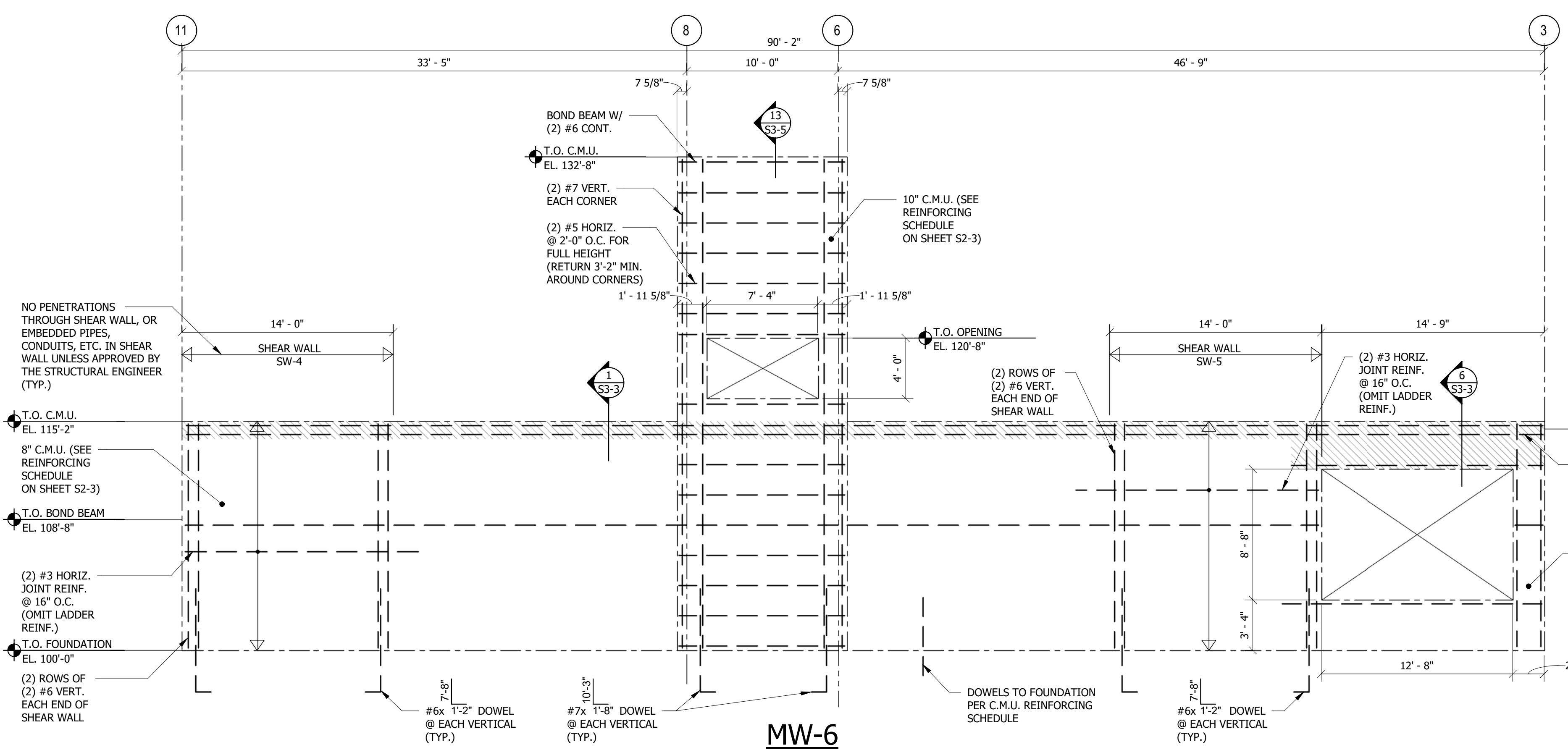
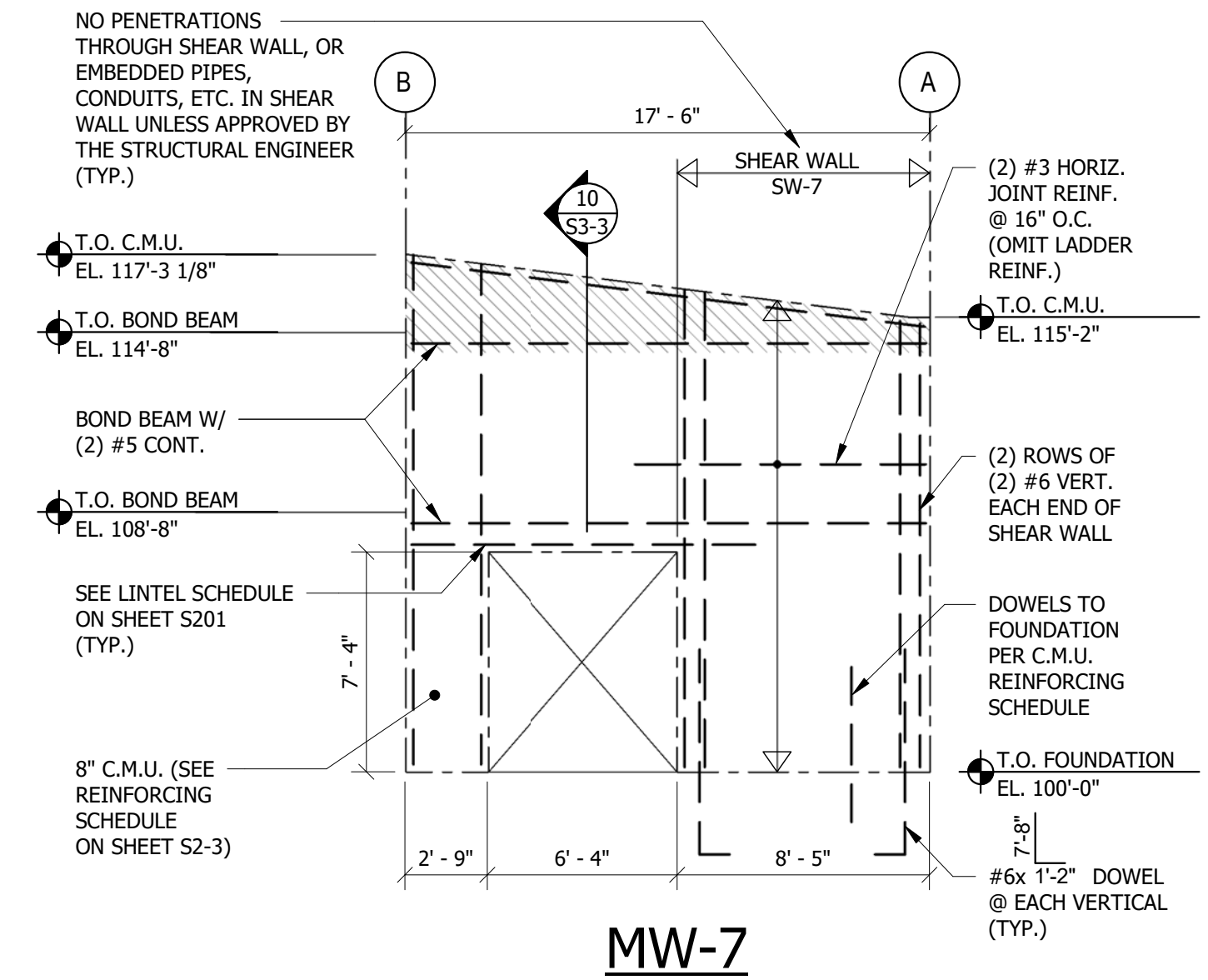
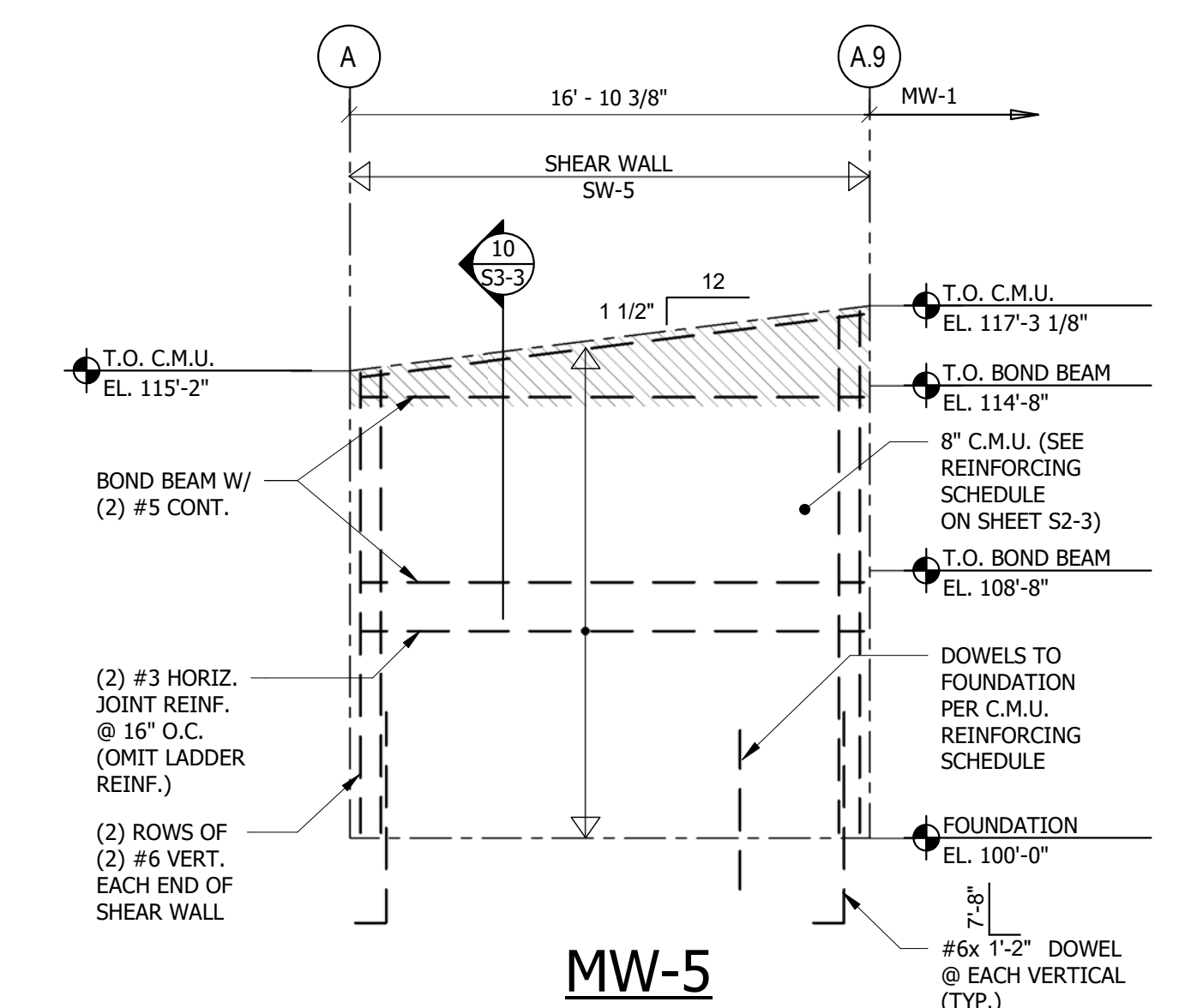
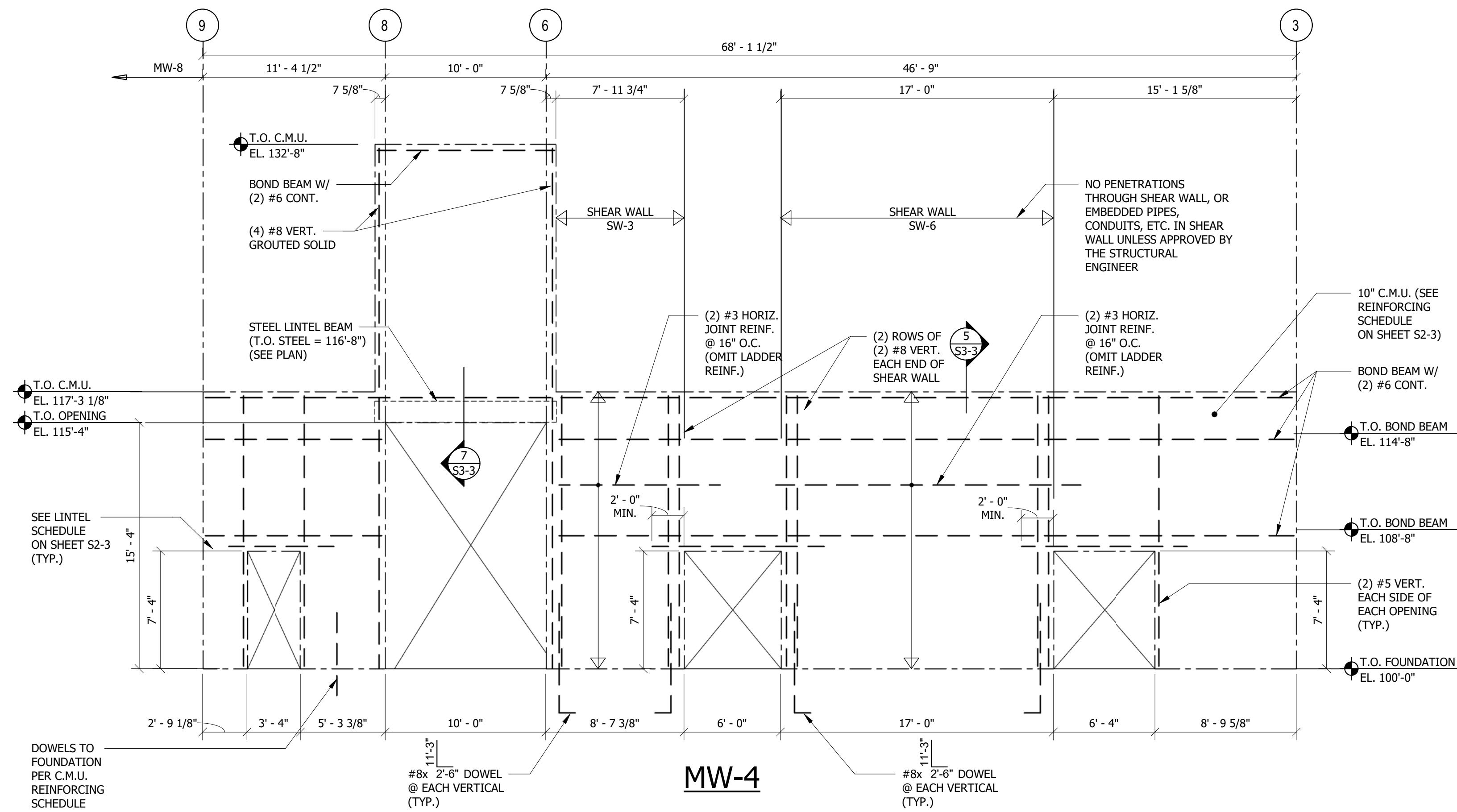


TYPICAL C.M.U. WALL ELEVATION N.T.S.



MASONRY WALL ELEVATIONS

3/16" = 1'-0"



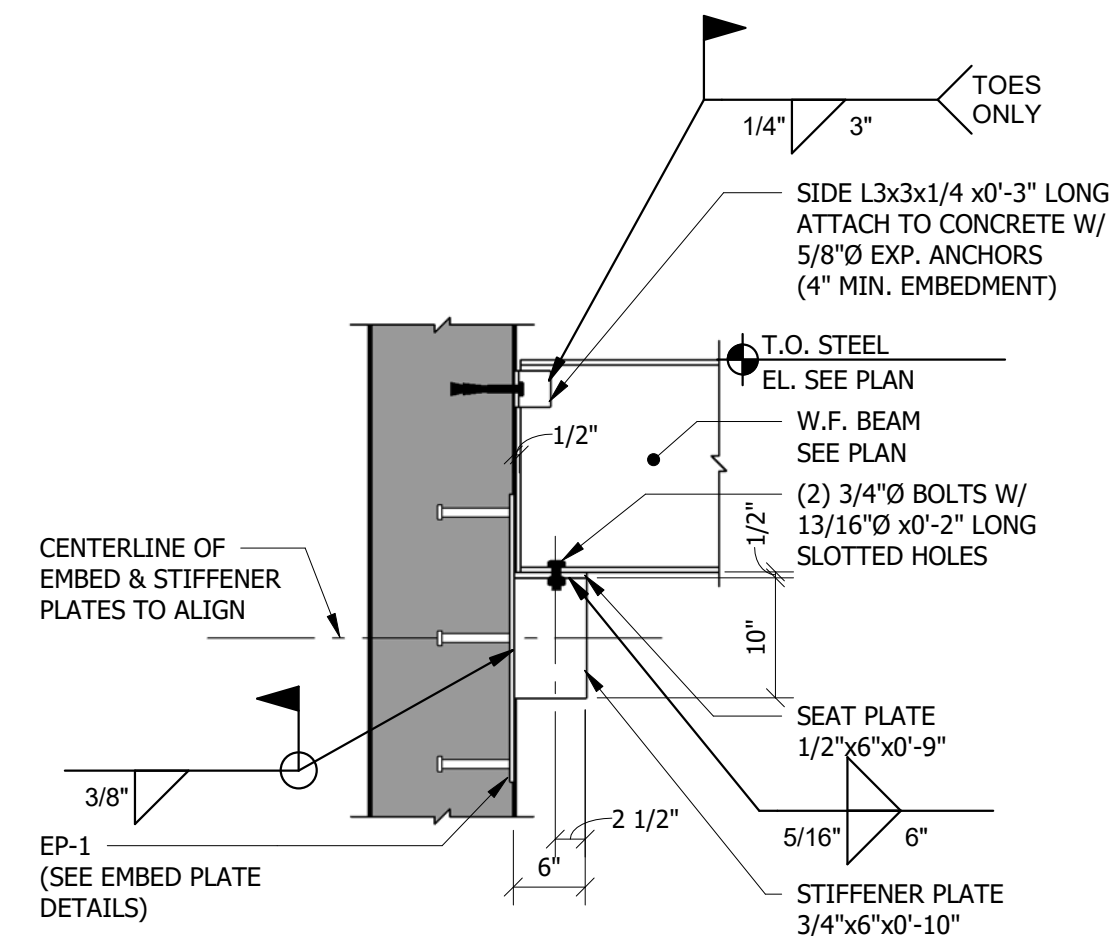
MASONRY WALL ELEVATIONS

3/16" = 1'-0"

STEEL DECK SCHEDULE

DECK				CONCRETE SLAB				DECK PROPERTIES (MINIMUMS)						FASTENERS		COMMENTS	
DECK MARK	DECK TYPE	DECK DEPTH (in.)	DECK FINISH	CONC. ABOVE DECK (in.)	TOTAL THICKNESS (in.)	CONC. TYPE	SLAB REINF.	SPAN CONDITION	DECK GAUGE	MAX. CLEAR CONST. SPAN	INT. DECK BRG. (in.)	EXT. DECK BRG. (in.)	DECK DIAPHRAGM SHEAR (PLF)	SUPERIMPOSED LOAD CAPACITY (UNIFORM OR CONCENTRATED)	SUPPORTS		SIDE LAPS
RD1	1.5B	1 1/2	SHOP PAINTED	--	--	--	--	1-2 SPAN	18	7'-8"	3	1 1/2	364	120 PSF	5/8" PUDDLE WELDS		(4) #10 TEK SCREWS EA. SPAN
								3 SPAN	18	8'-6"	3	1 1/2	364	120 PSF			

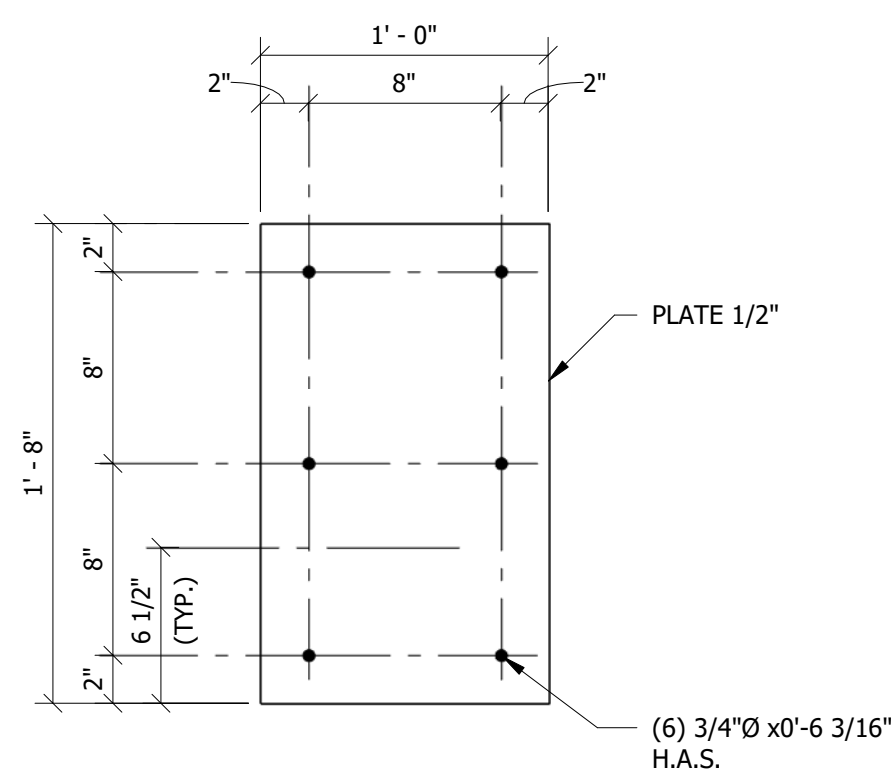
- NOTES:
 1. SEE GENERAL NOTES FOR REQUIRED DECK MATERIALS.
 2. DECK WITH HIGHER YIELD STRESS MAY BE USED WITH SP & SN REQUIRED VALUES ADJUSTED BY THE RATIO OF Fy(40)/Fy(PROVIDED).
 3. ROOF DECK CAPACITIES ARE TOTAL LOADS AND ARE BASED UPON SUPPORT CENTER TO CENTER DIMENSION.
 4. LAP EDGES AND ENDS OF ADJOINING W.W.F. SHEETS AT LEAST TWO MESH SPACINGS.
 5. NO PERMANENT SUSPENDED LOADS ARE TO BE SUPPORTED BY THE STEEL DECK.



SB-1

SEATED BEAM DETAILS

3/4" = 1'-0"

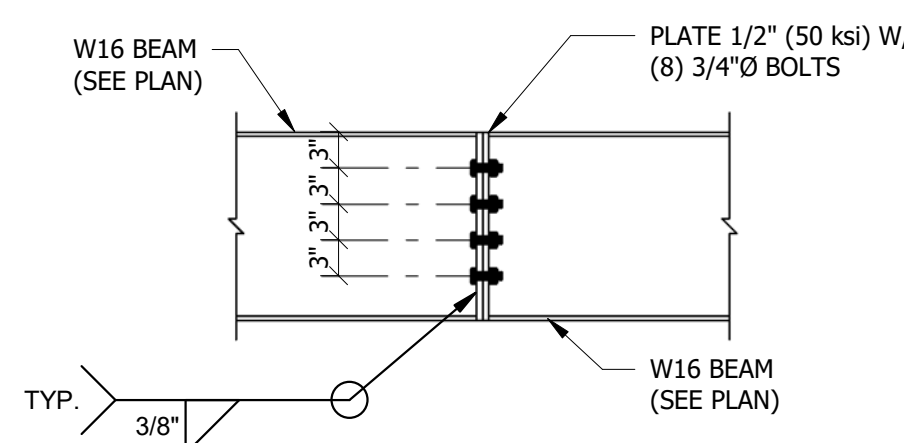


EP-1

EMBED PLATE DETAILS

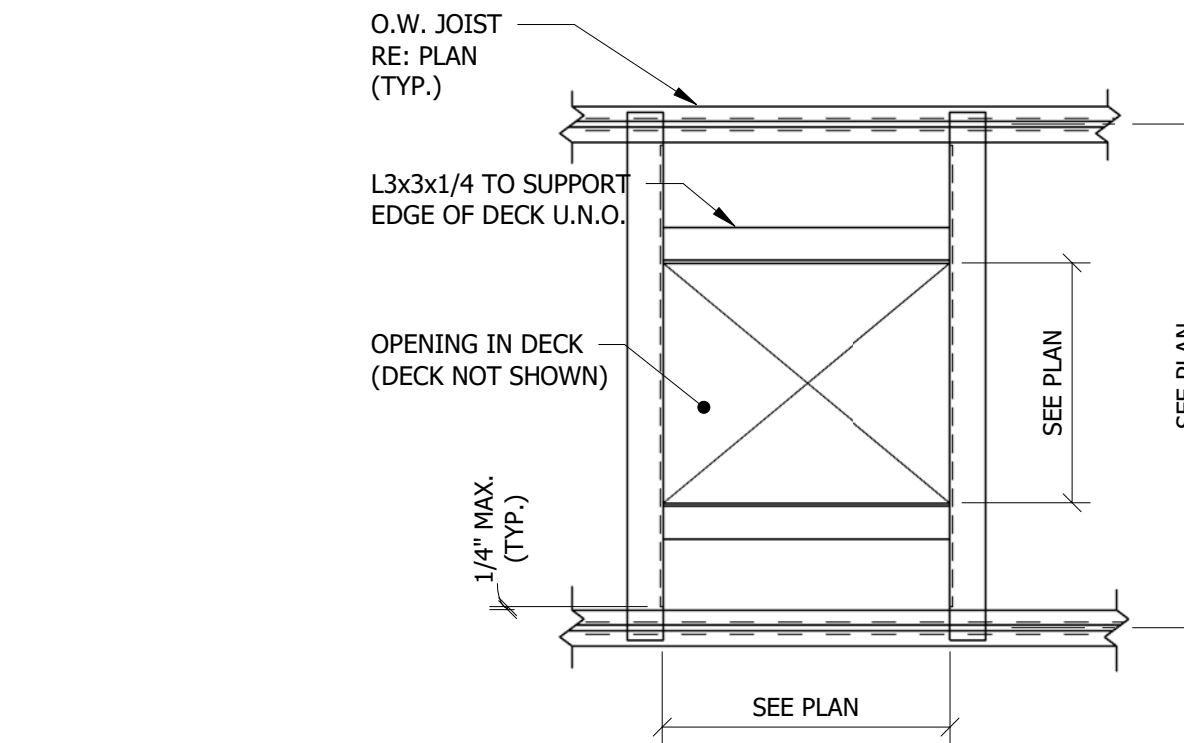
1 1/2" = 1'-0"

1. ALL REINFORCING STEEL DOWELS SHALL BE ASTM A706, GRADE 60W.
 2. H.A.S. LENGTHS SPECIFIED ARE BEFORE WELDING.



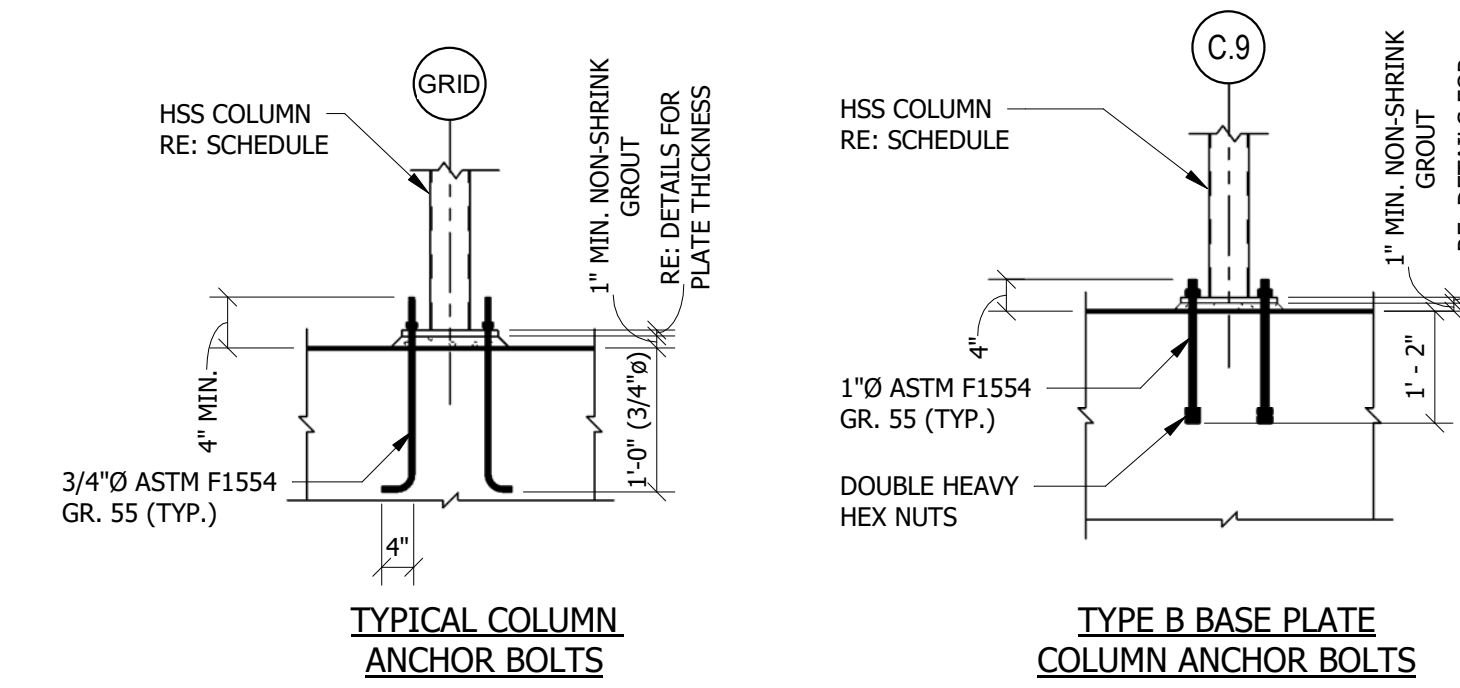
BEAM SPLICE DETAIL

3/4" = 1'-0"



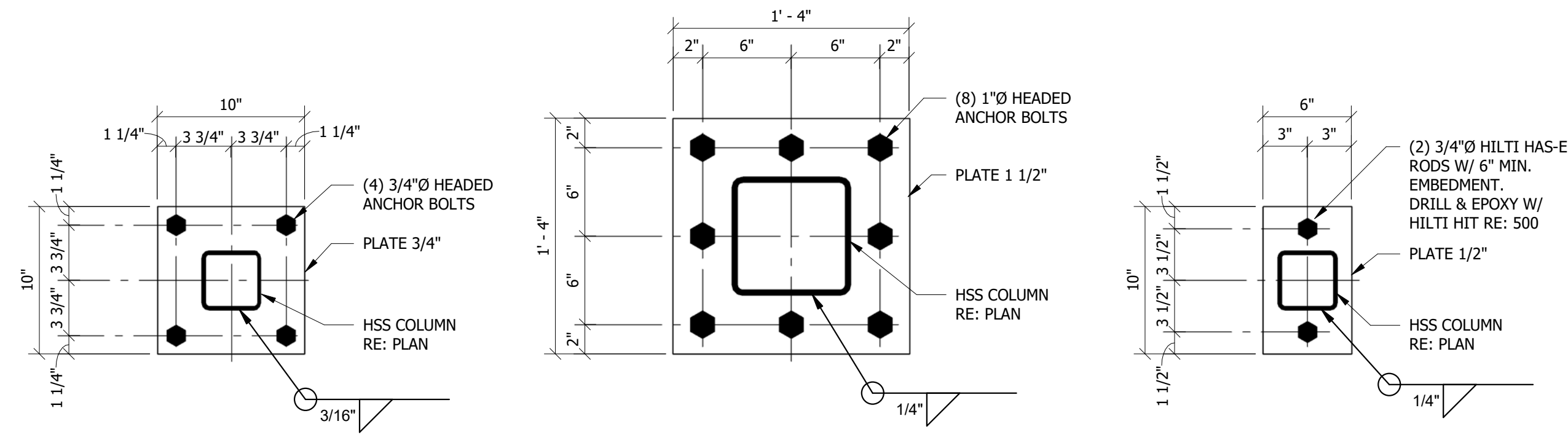
TYP. EDGE SUPPORT @ METAL ROOF DECK PEN.

N.T.S.



TYPICAL ANCHOR BOLT DETAILS

1/2" = 1'-0"



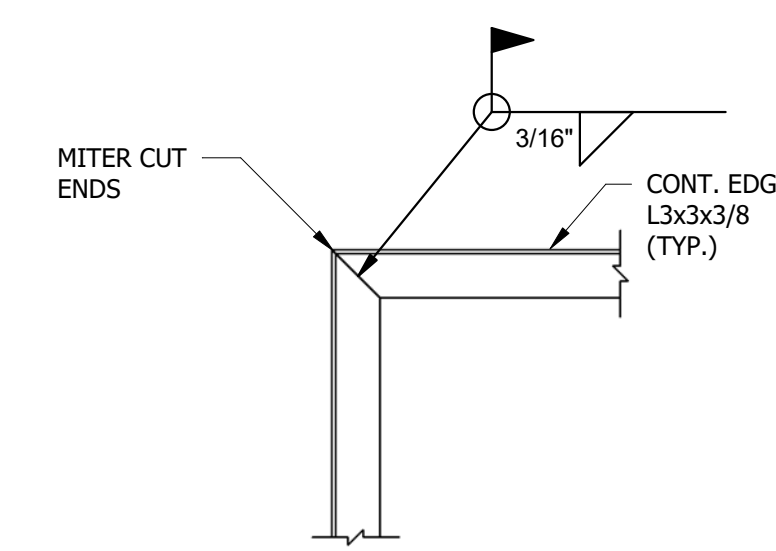
TYPE A

TYPE B

TYPE C


TYPICAL BASE PLATE DETAILS

1 1/2" = 1'-0"

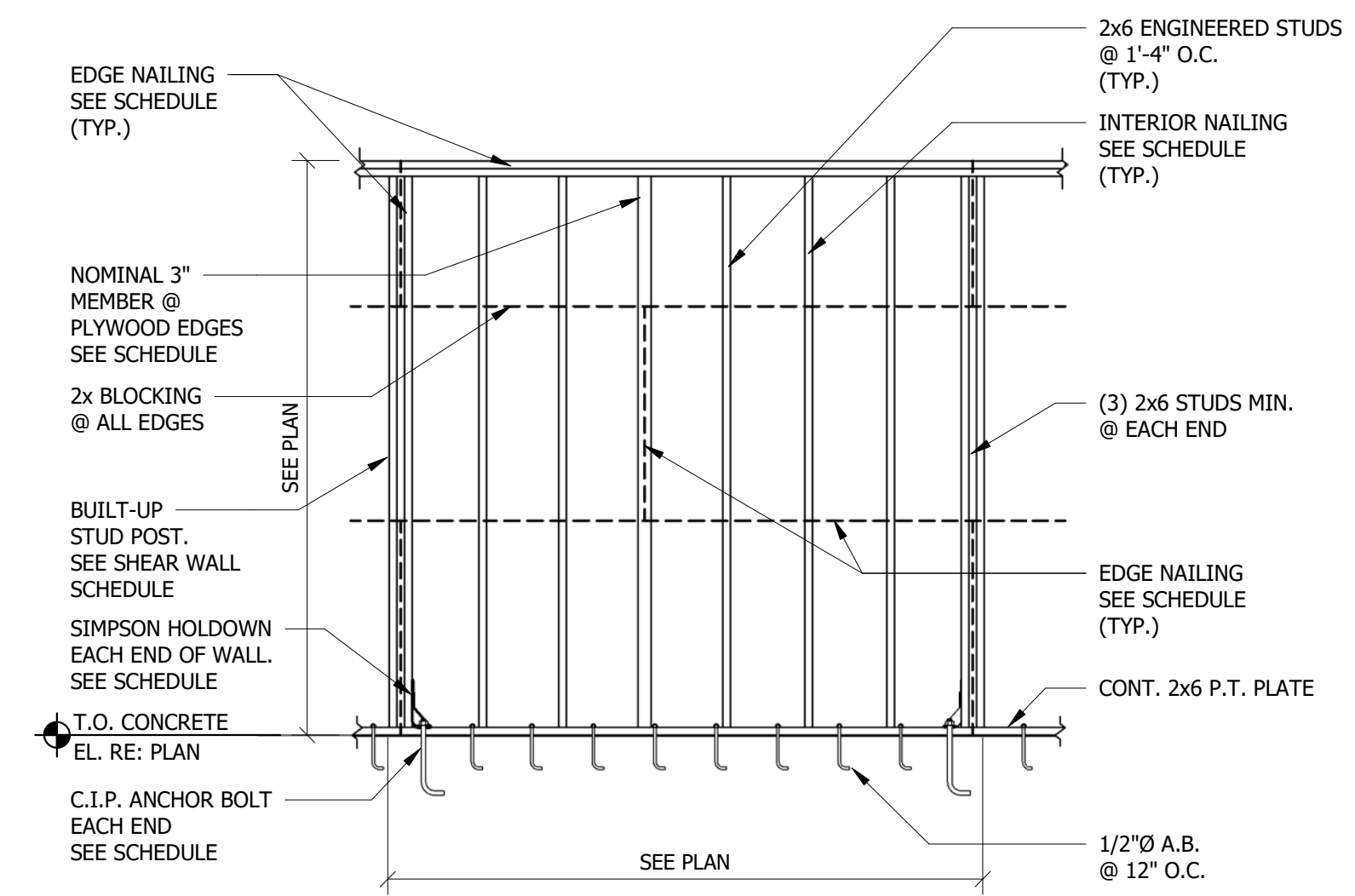


DETAIL

1" = 1'-0"

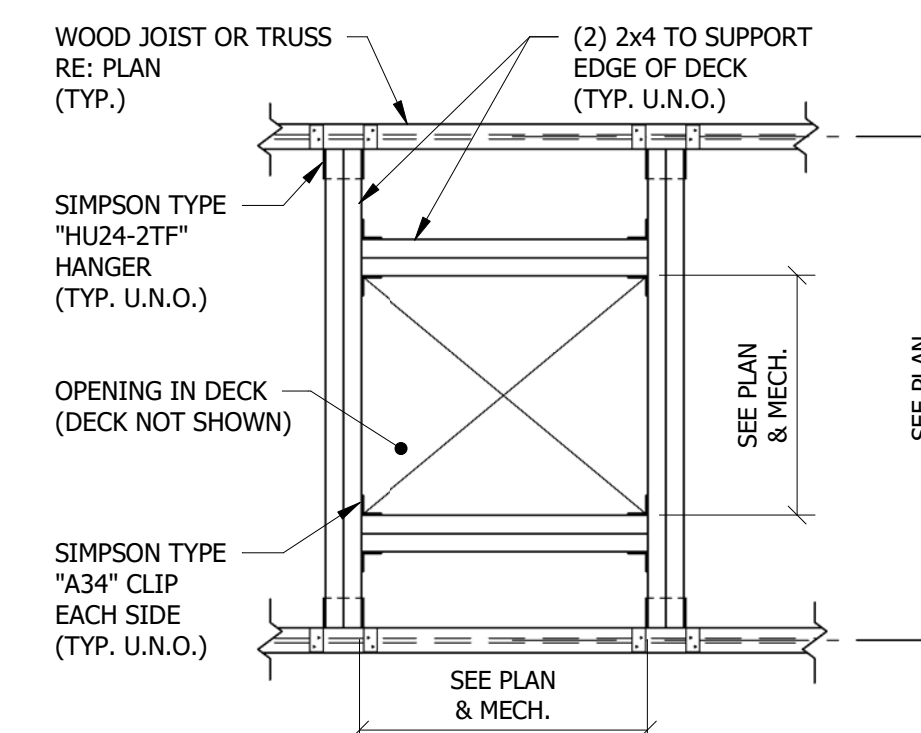
PLYWOOD/SHEAR WALL NAILING SCHEDULE						
USE	PLYWOOD THICKNESS	SPAN/INDE XRATIO	EDGE NAILING	INTERIOR NAILING	HOLD DOWN	HEADED ANCHOR BOLT
ROOF	19/32"	32/16	10d @ 4" O.C. (BOUNDARIES) 10d @ 6" O.C. (ALL OTHER EDGES)	10d @ 12" O.C.	--	--
WALL	15/32"	24/0	8d @ 6" O.C.	8d @ 12" O.C.	--	--
SHEAR WALL: 	15/32"	24/0	10d @ 2" O.C.	10d @ 12" O.C.	"HD12"	1"Ø

- PLYWOOD FOR ROOFS, FLOORS, AND SHEAR WALL SHEATHING SHALL BE APA GRADE TRADEMARKED CDX W/ EXTERIOR GLUE. LAY UP PLYWOOD W/ FACE GRAIN PERPENDICULAR TO SUPPORTS AND STAGGER JOINTS. ALL NAILS SHALL BE COMMON NAILS; RING SHANKED FOR ROOF AND FLOOR SHEATHING. REFER TO TABLE ABOVE FOR USE REQUIREMENTS.
- OSB SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD W/ PRIOR APPROVAL OF OWNER AND CONTRACTOR. OSB SHEATHING SHALL COMPLY WITH THE APA PLYWOOD DESIGN SPECIFICATION AND SHALL HAVE A SPAN RATING EQUIVALENT TO, OR BETTER, THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES.
- ALL EDGES OF ROOF SHEATHING SHALL BE BLOCKED WITH A 2" NOMINAL WOOD FRAMING MEMBER.
- AT ABUTTING SHEAR WALL PANEL EDGES, STUDS SHALL BE NO LESS THAN A SINGLE 3" NOMINAL MEMBER AND NAILS SHALL BE STAGGERED.
- PROVIDE (3) 2" NOMINAL STUDS AND HOLDDOWNS AT EACH END OF SHEAR WALL.
- HOLDOWNS LISTED ARE BY SIMPSON STRONG-TIE. ALTERNATES MUST BE EQUIVALENT AND MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
- HEADED ANCHOR BOLTS AT HOLDOWNS SHALL CONFORM TO ASTM F1554 GRADE 55. ANCHORS SHALL HAVE A MINIMUM EMBEDMENT OF 2'-0" AND SHALL HAVE A MINIMUM PROJECTION OF 6".



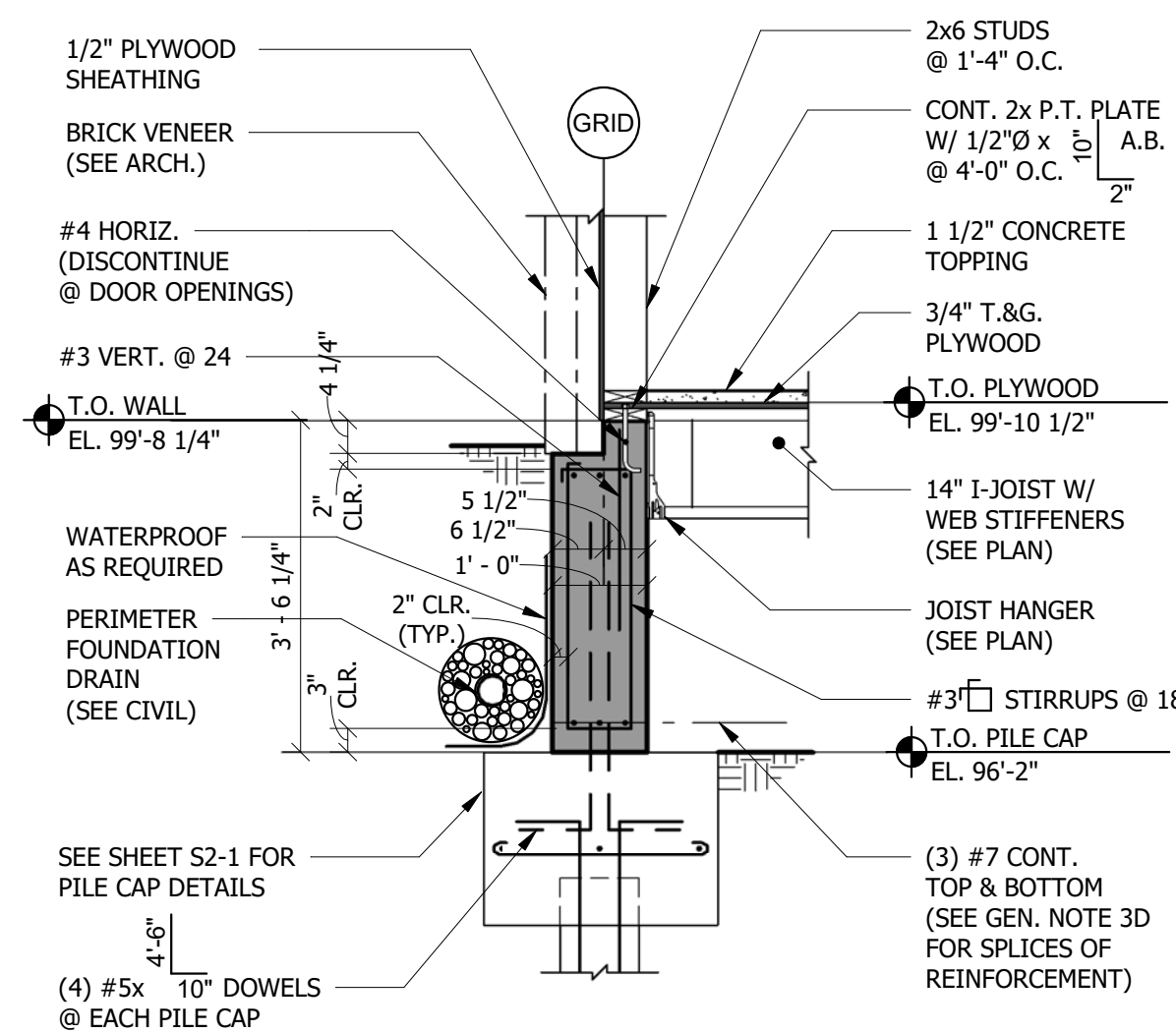
TYPICAL SHEAR WALL ELEVATION 3/8"=1'-0"

- NO OPENINGS ALLOWED IN SHEAR PANELS UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- ANCHOR BOLTS AT HOLDOWNS SHALL CONFORM TO ASTM F1554 GRADE 55.

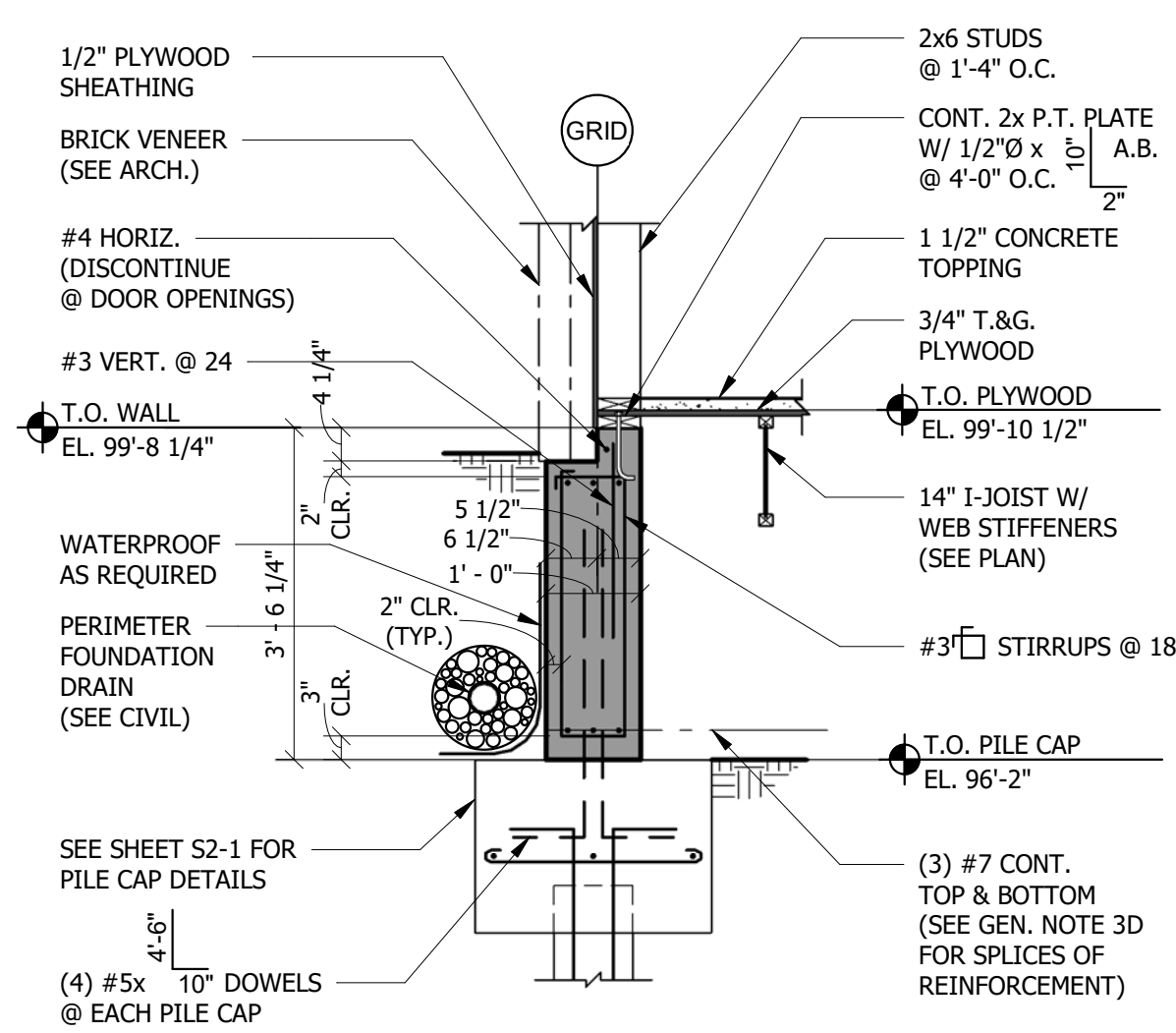


TYP. EDGE SUPPORT @ PLYWOOD ROOF DECK PEN. N.T.S.

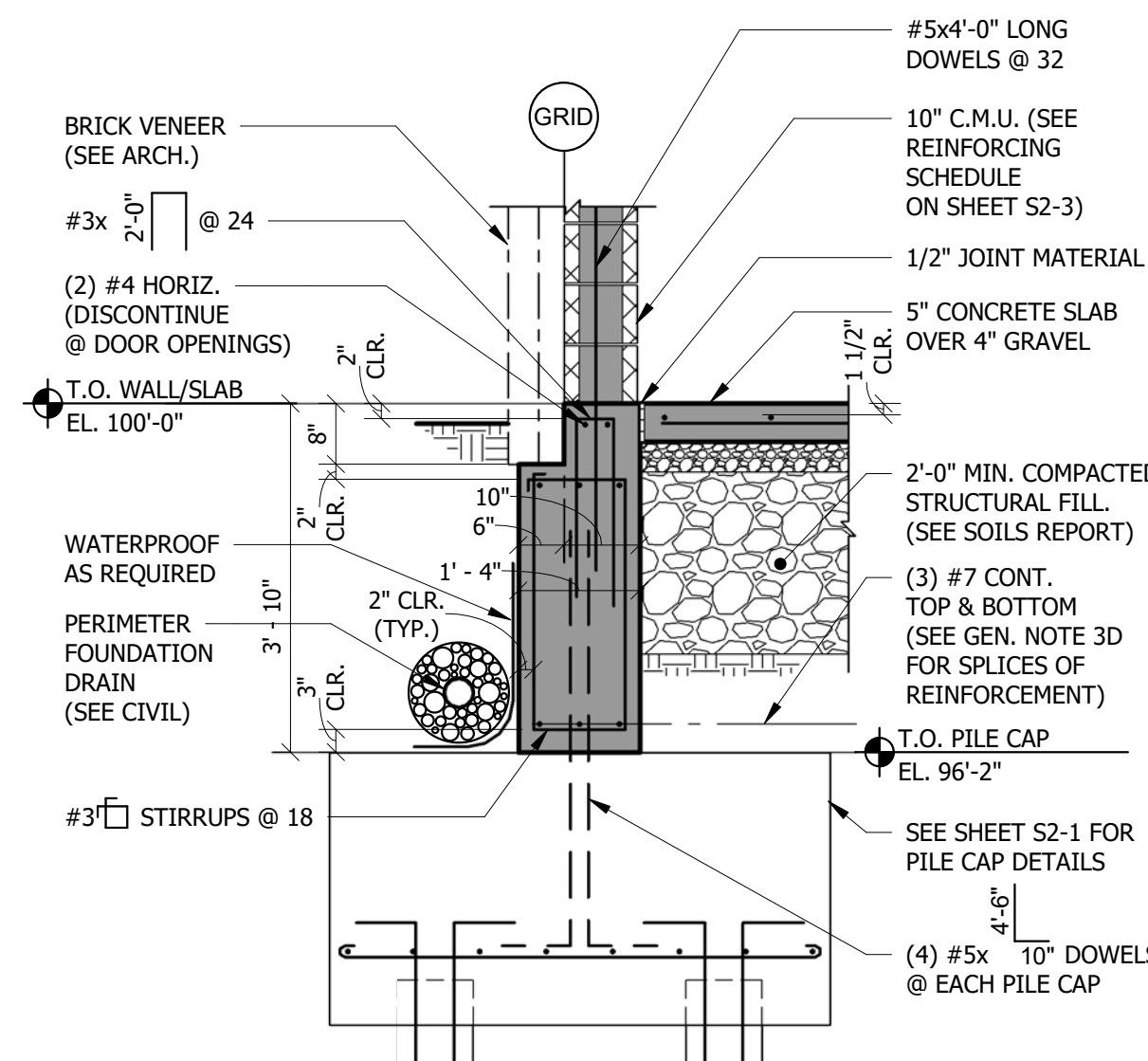
PROVIDE OPENING SUPPORTS FOR ALL ROOF PENETRATIONS 6"Ø AND LARGER.



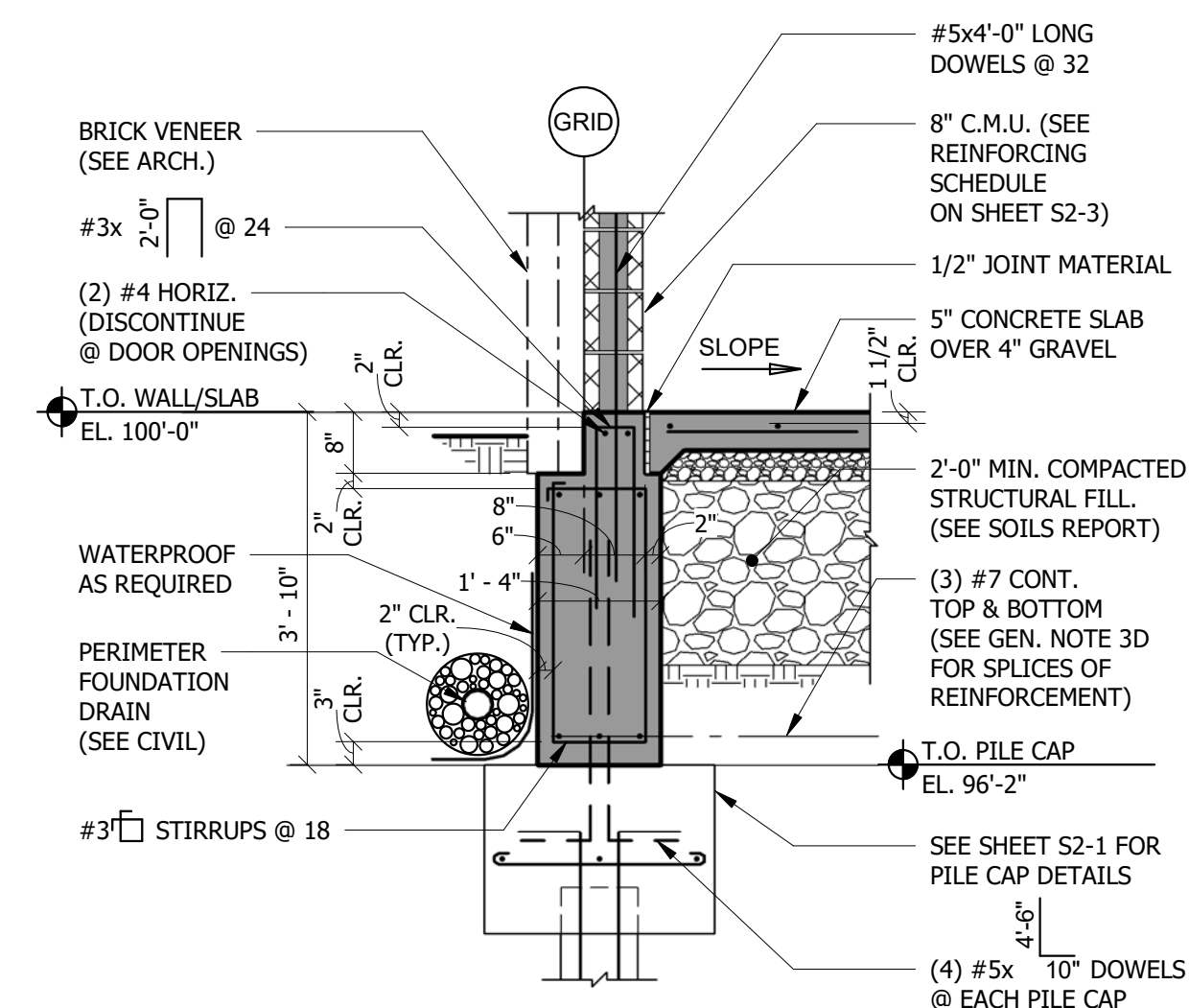
SECTION 1 1/2" = 1'-0"



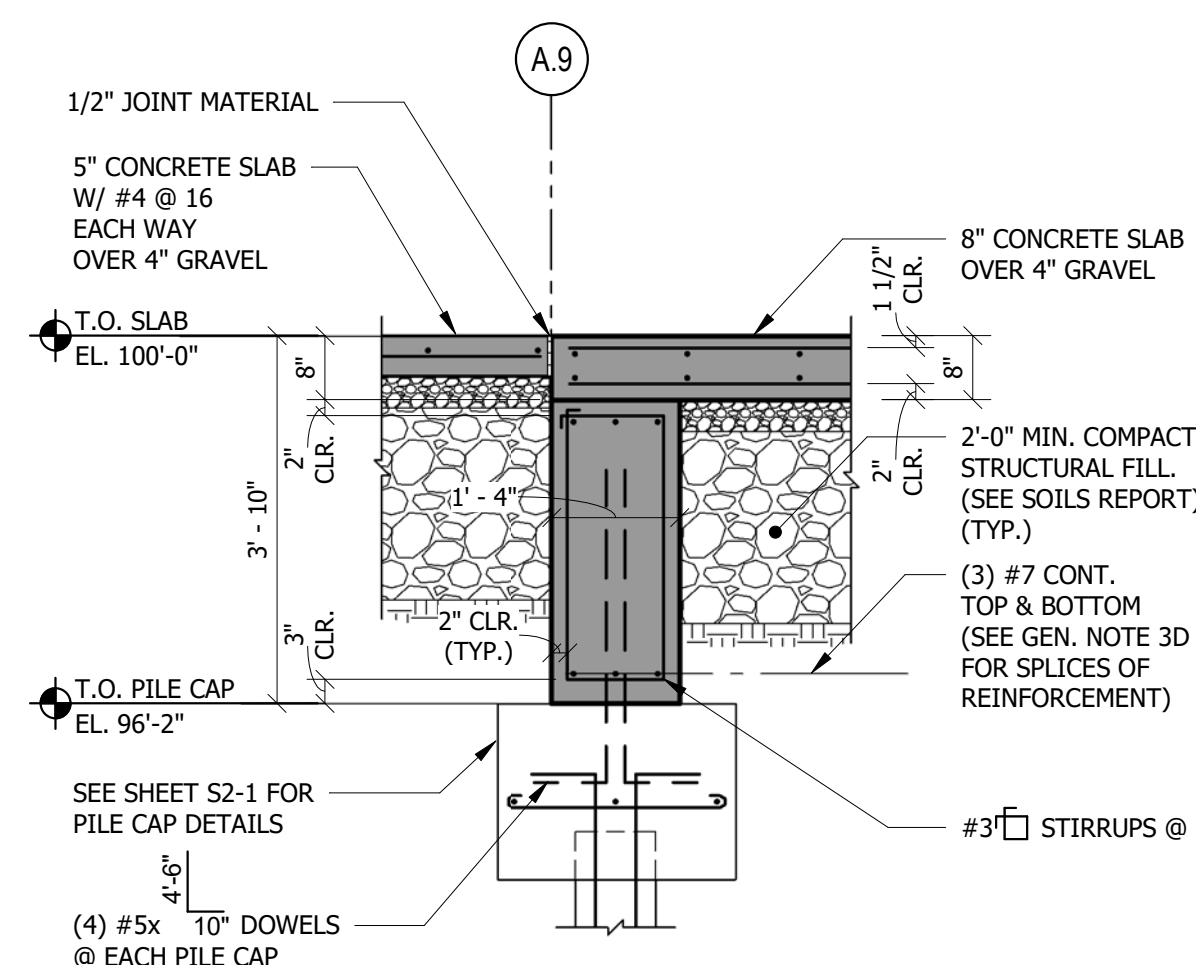
SECTION 2 1/2" = 1'-0"



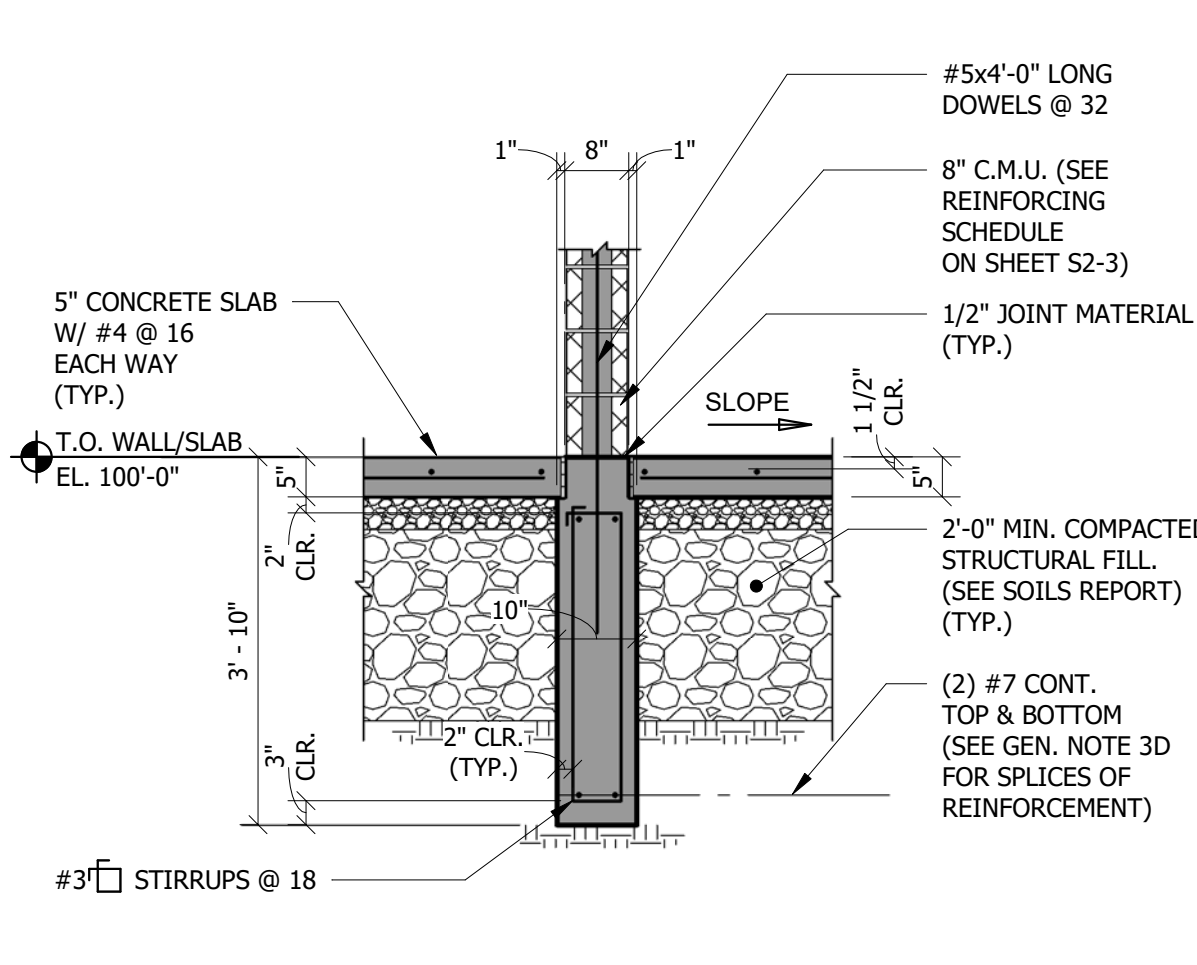
SECTION 3 1/2" = 1'-0"



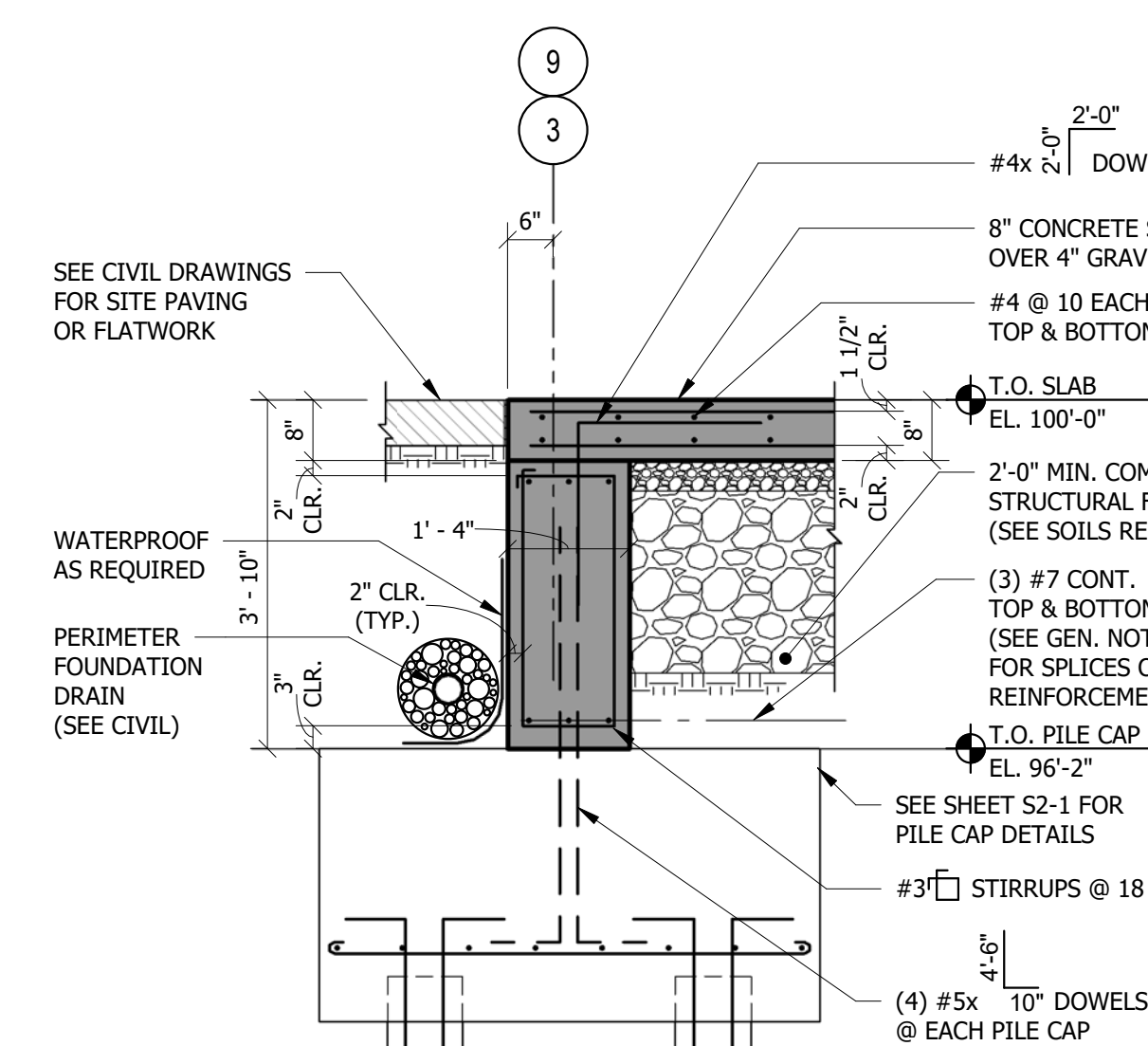
SECTION 4 1/2" = 1'-0"



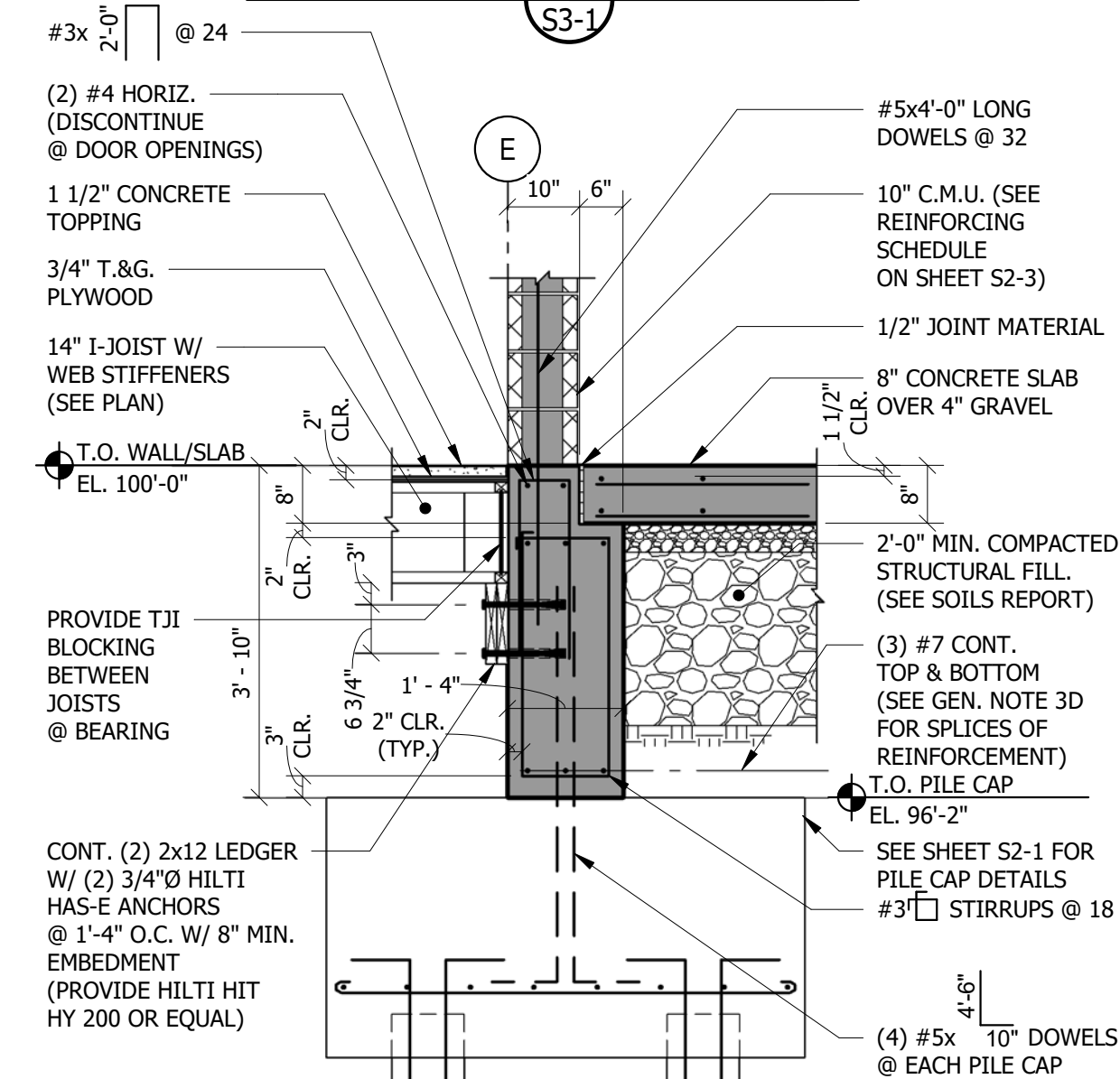
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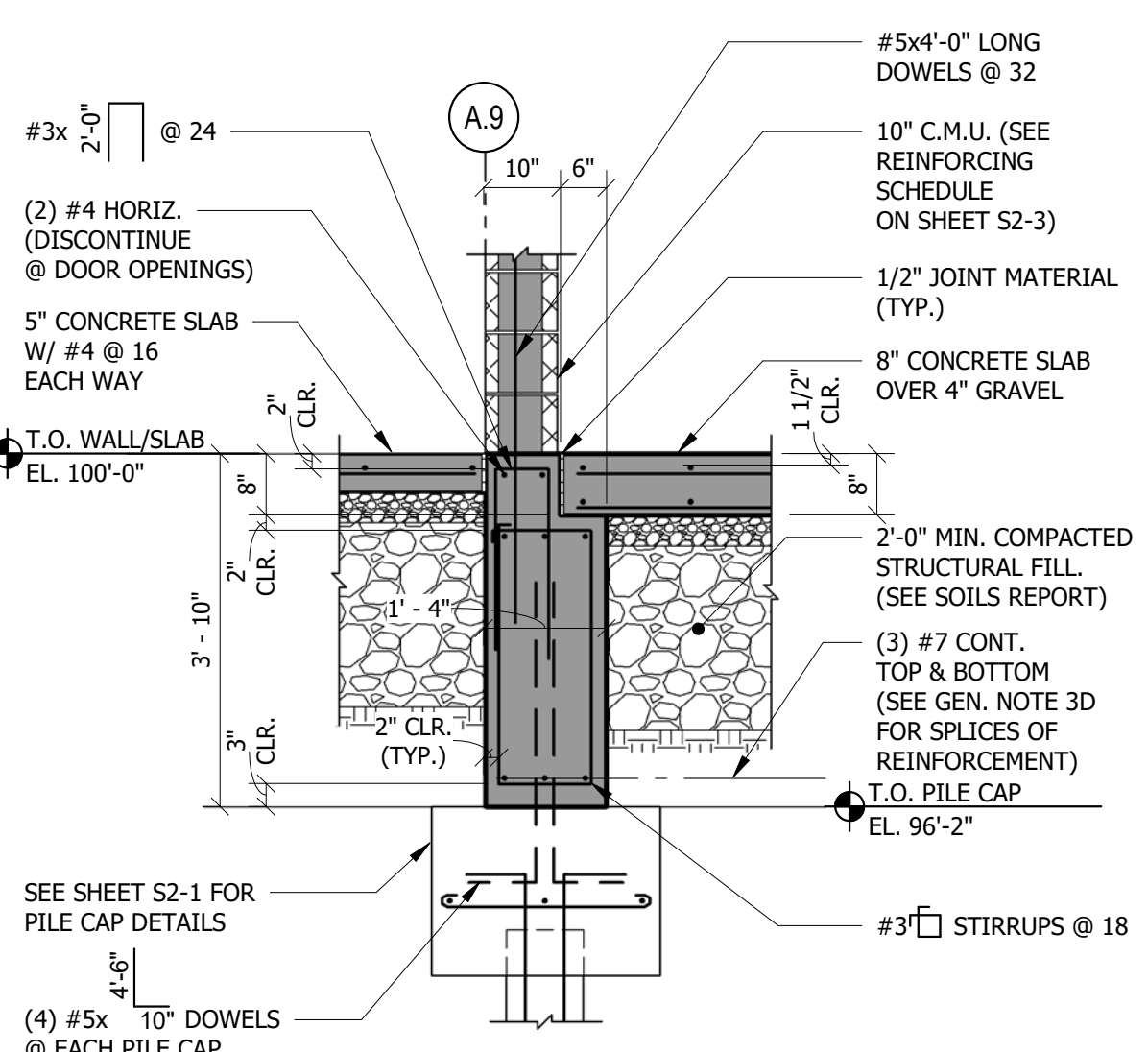
SECTION 6 1/2" = 1'-0"



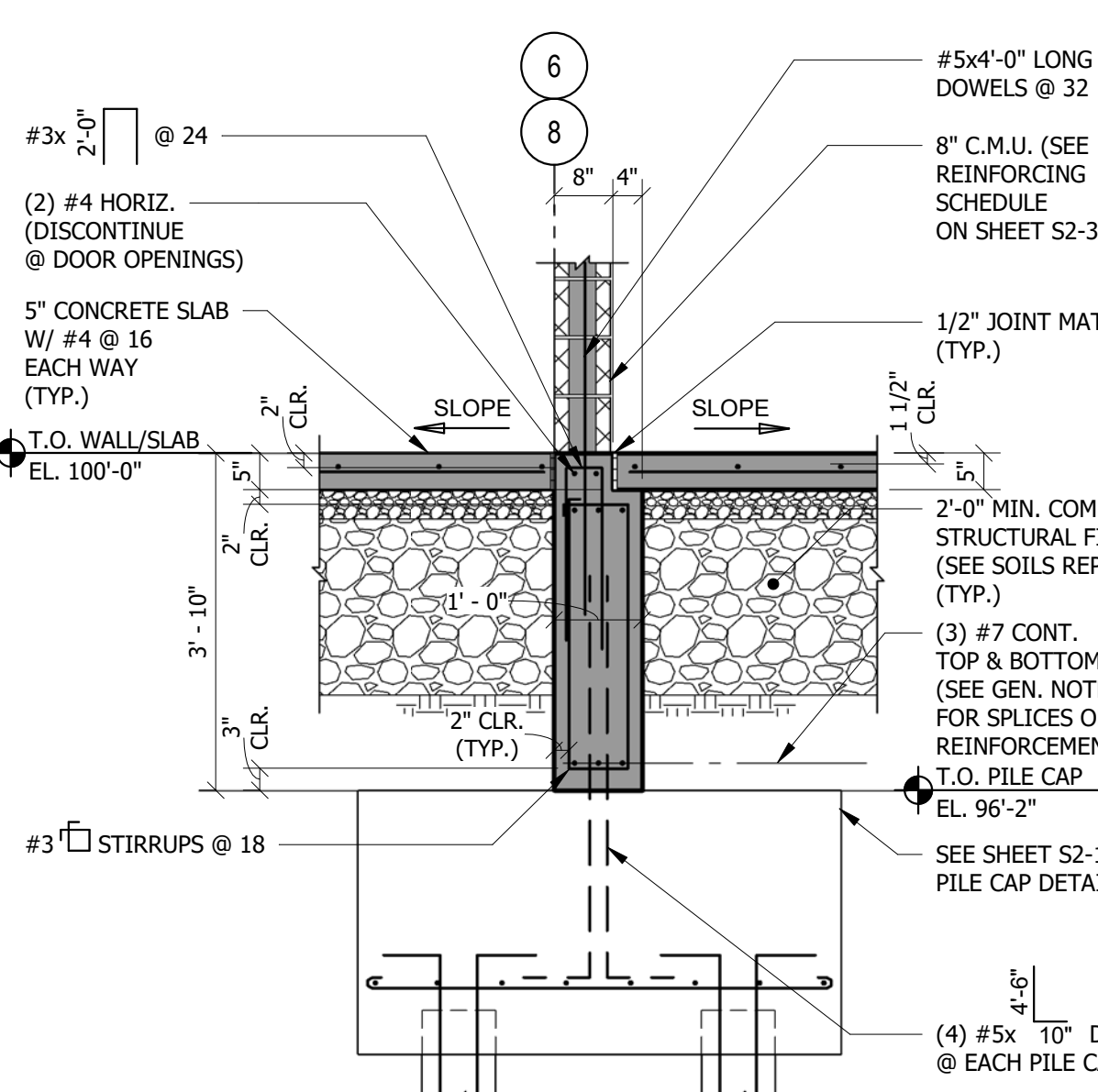
SECTION 7 1/2" = 1'-0"



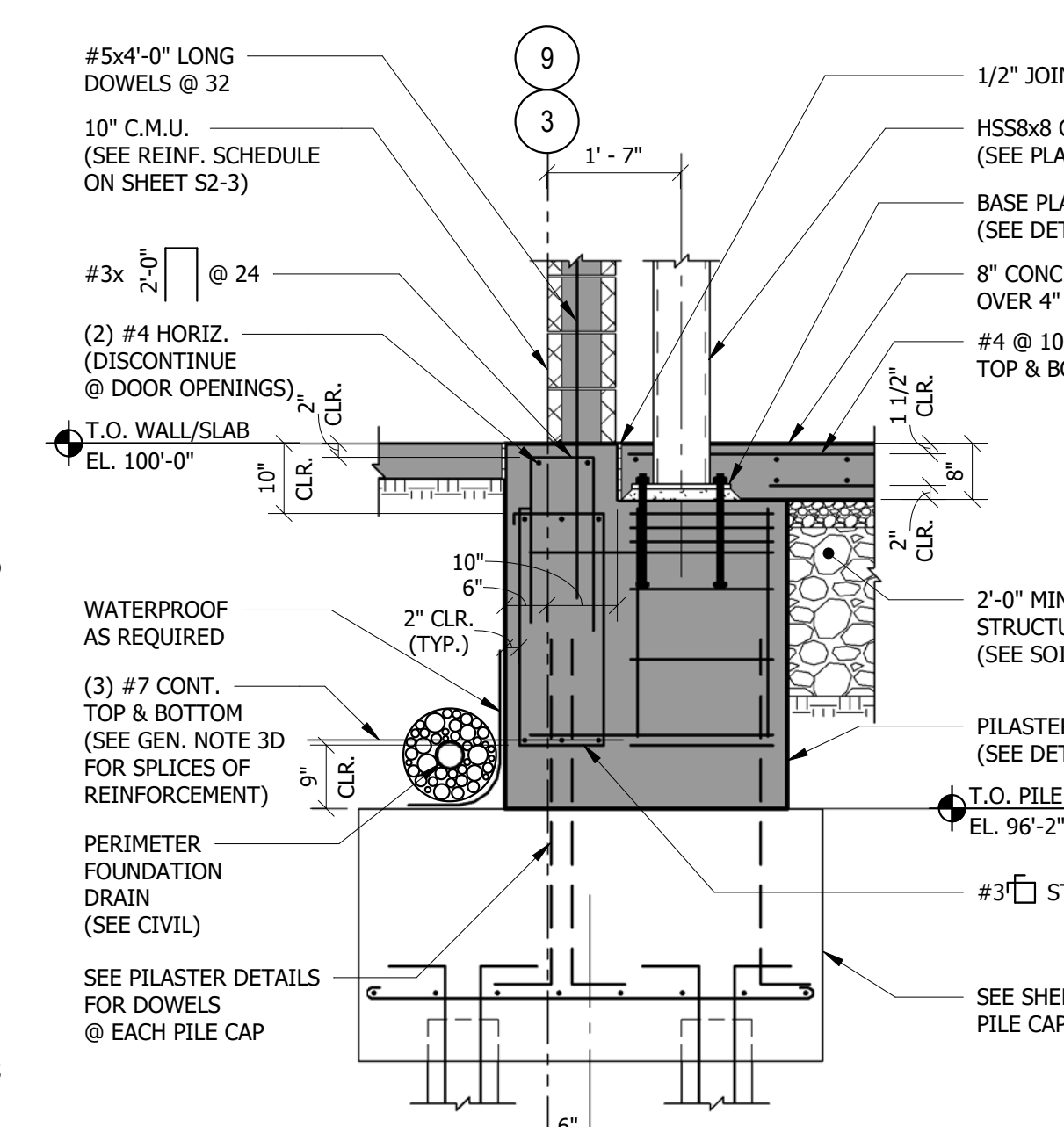
SECTION 8 1/2" = 1'-0"



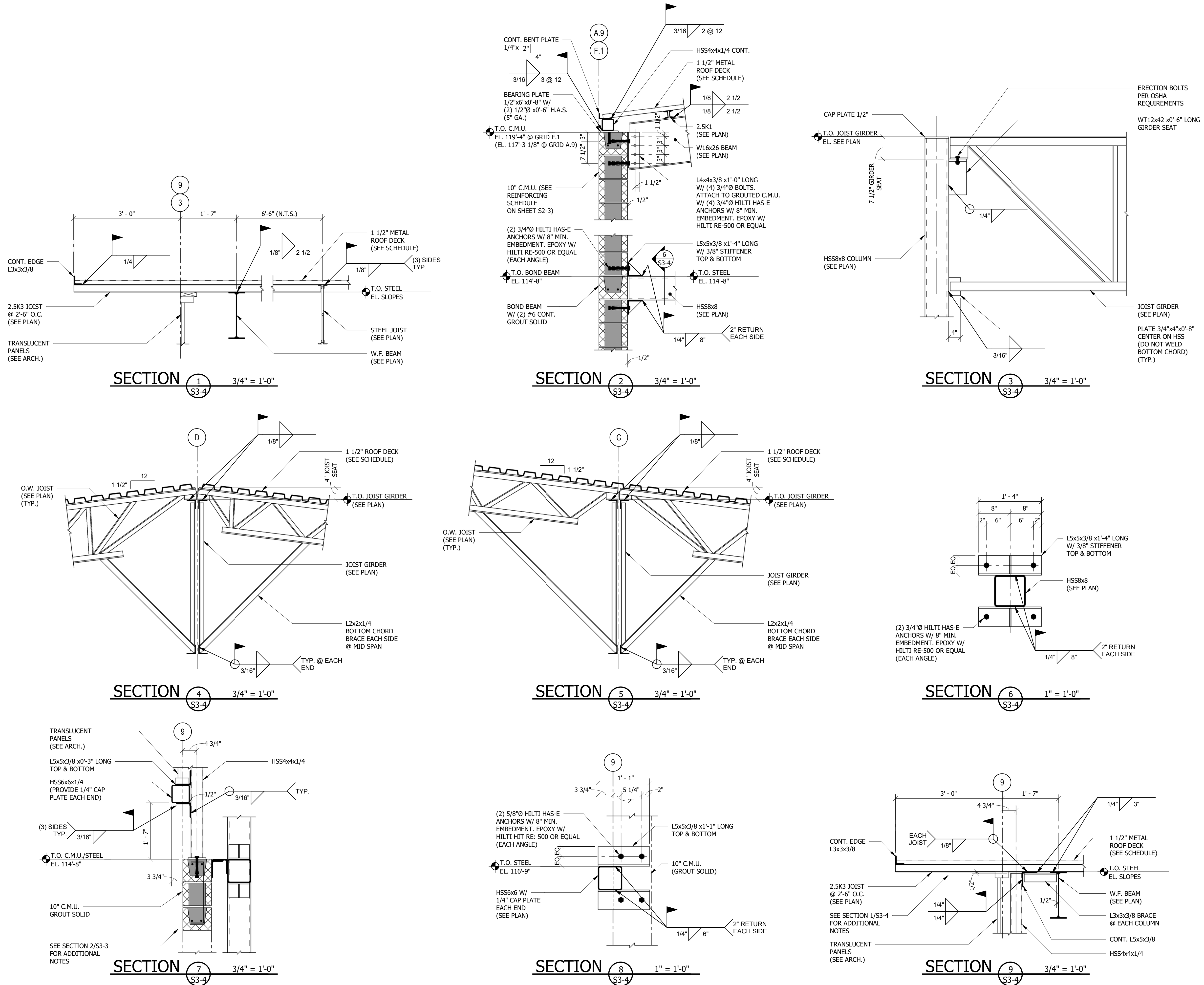
SECTION 9 1/2" = 1'-0"

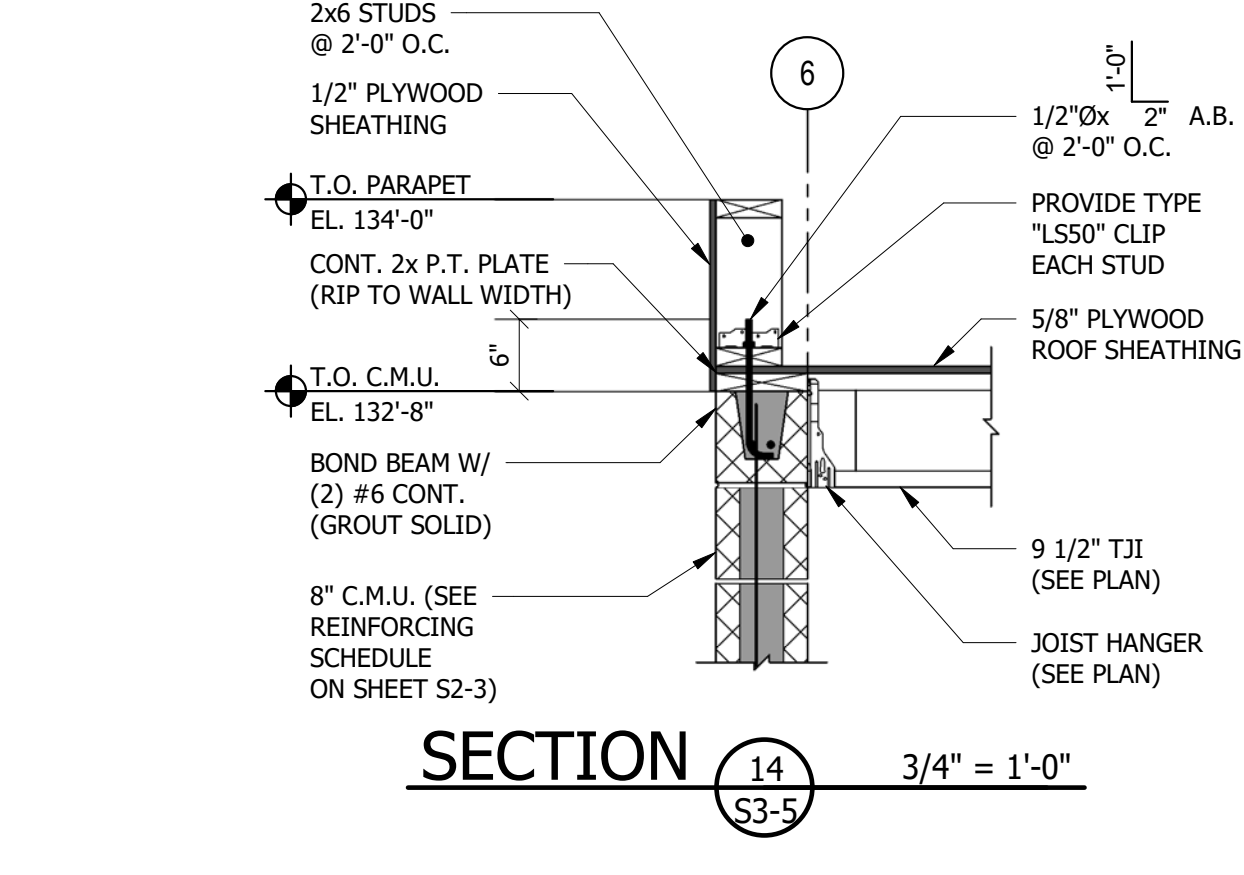
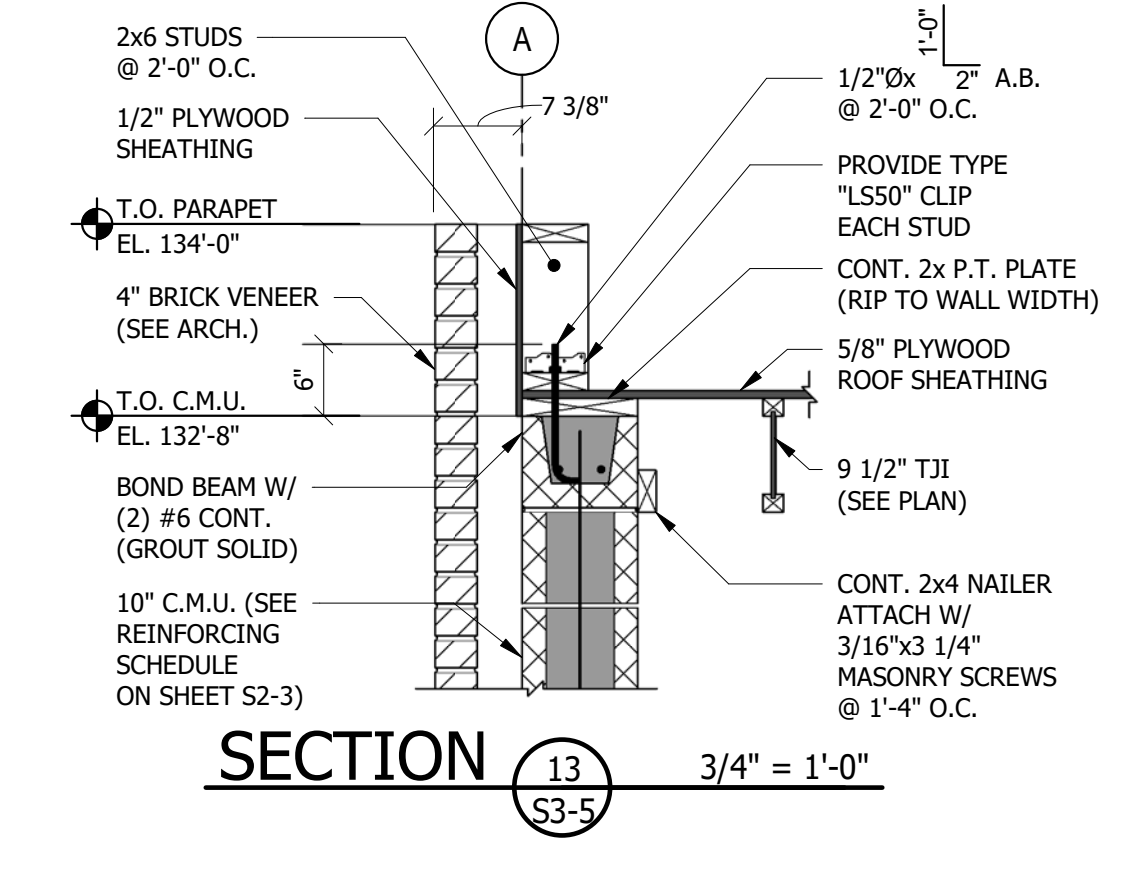
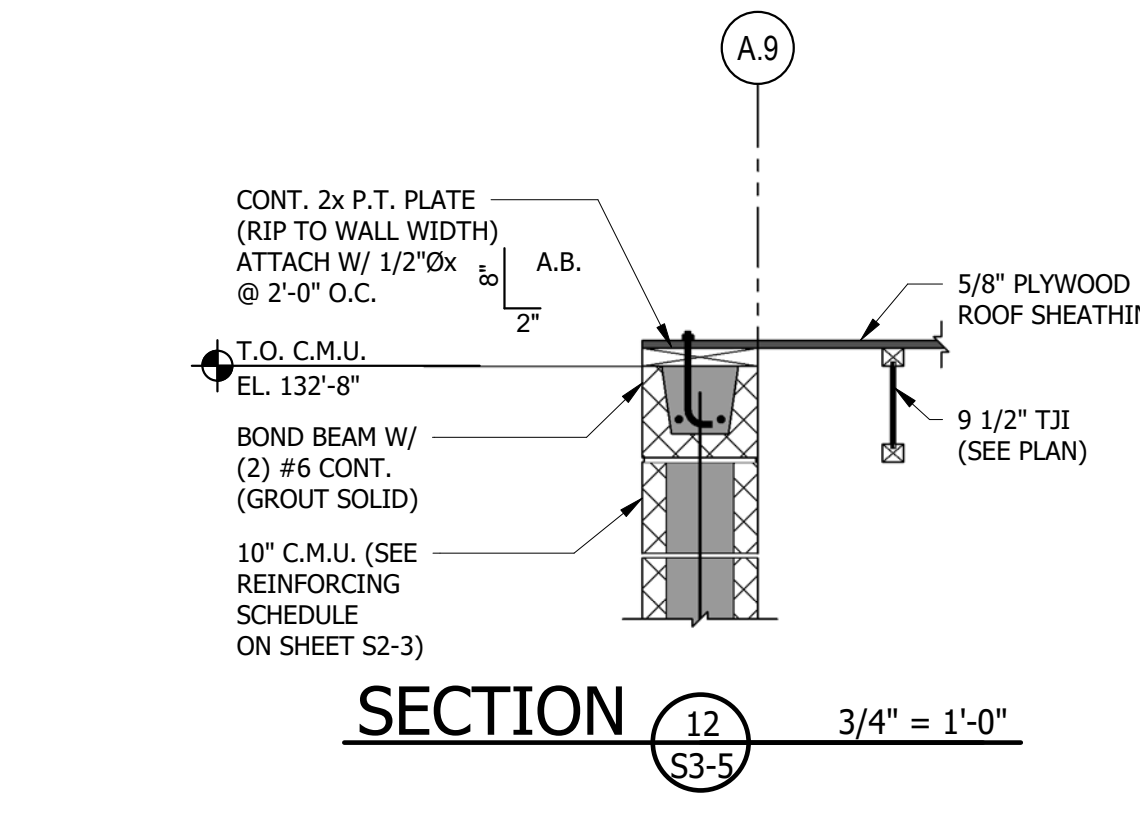
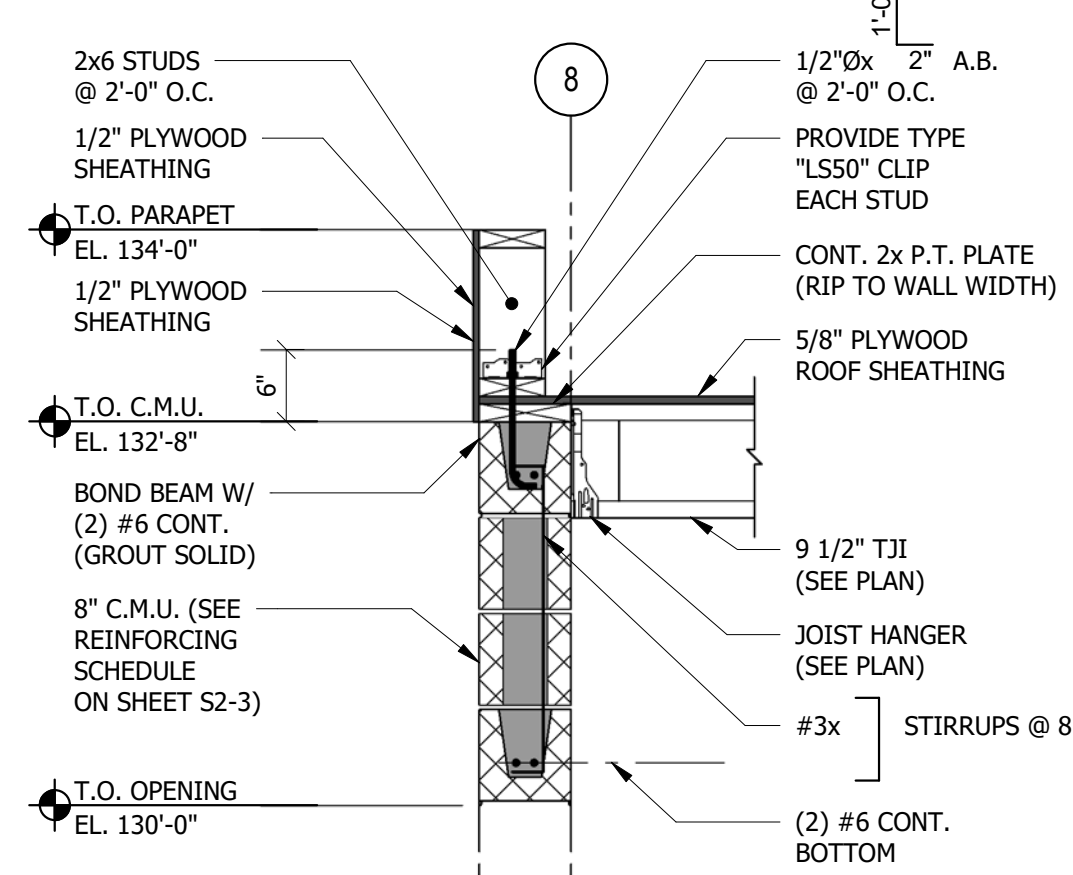
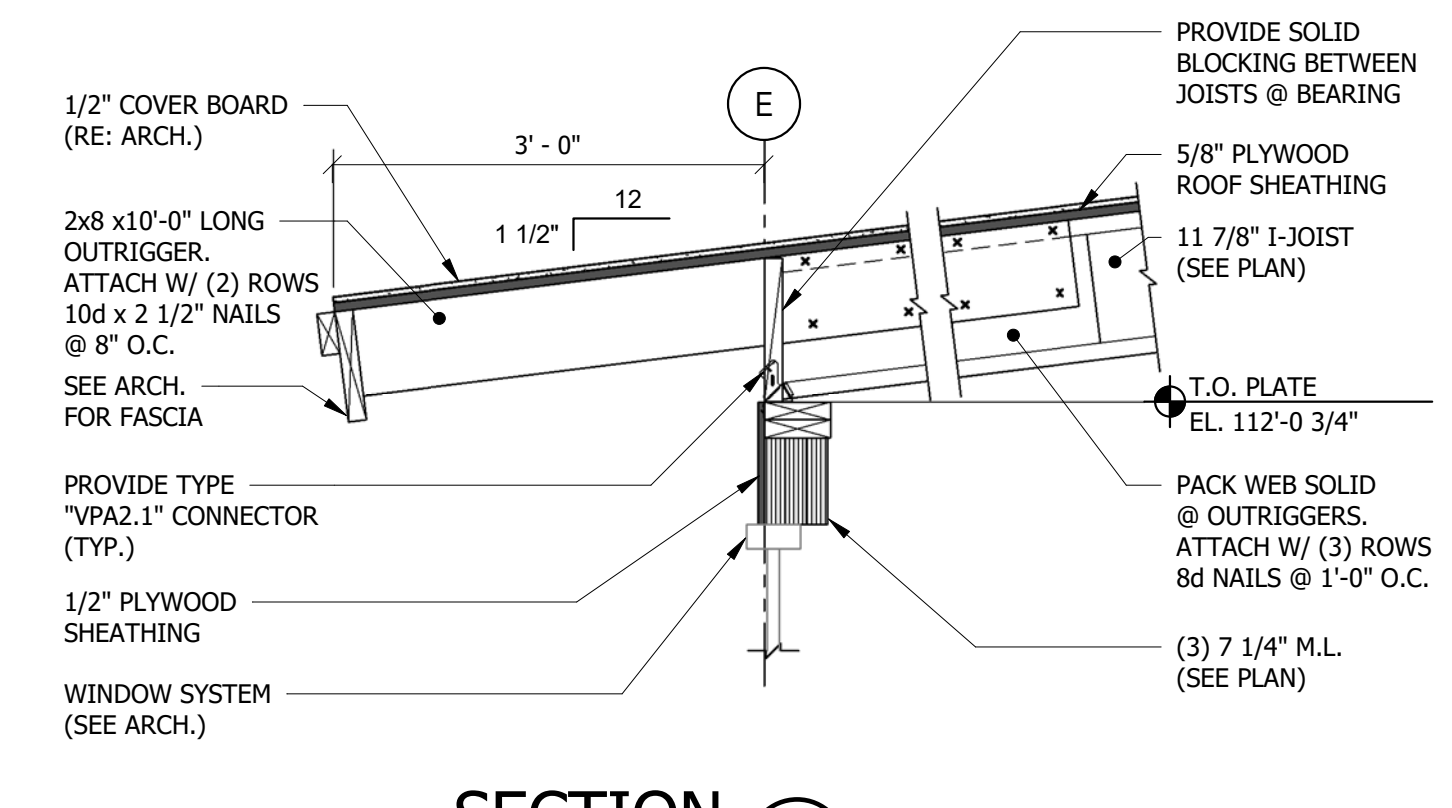
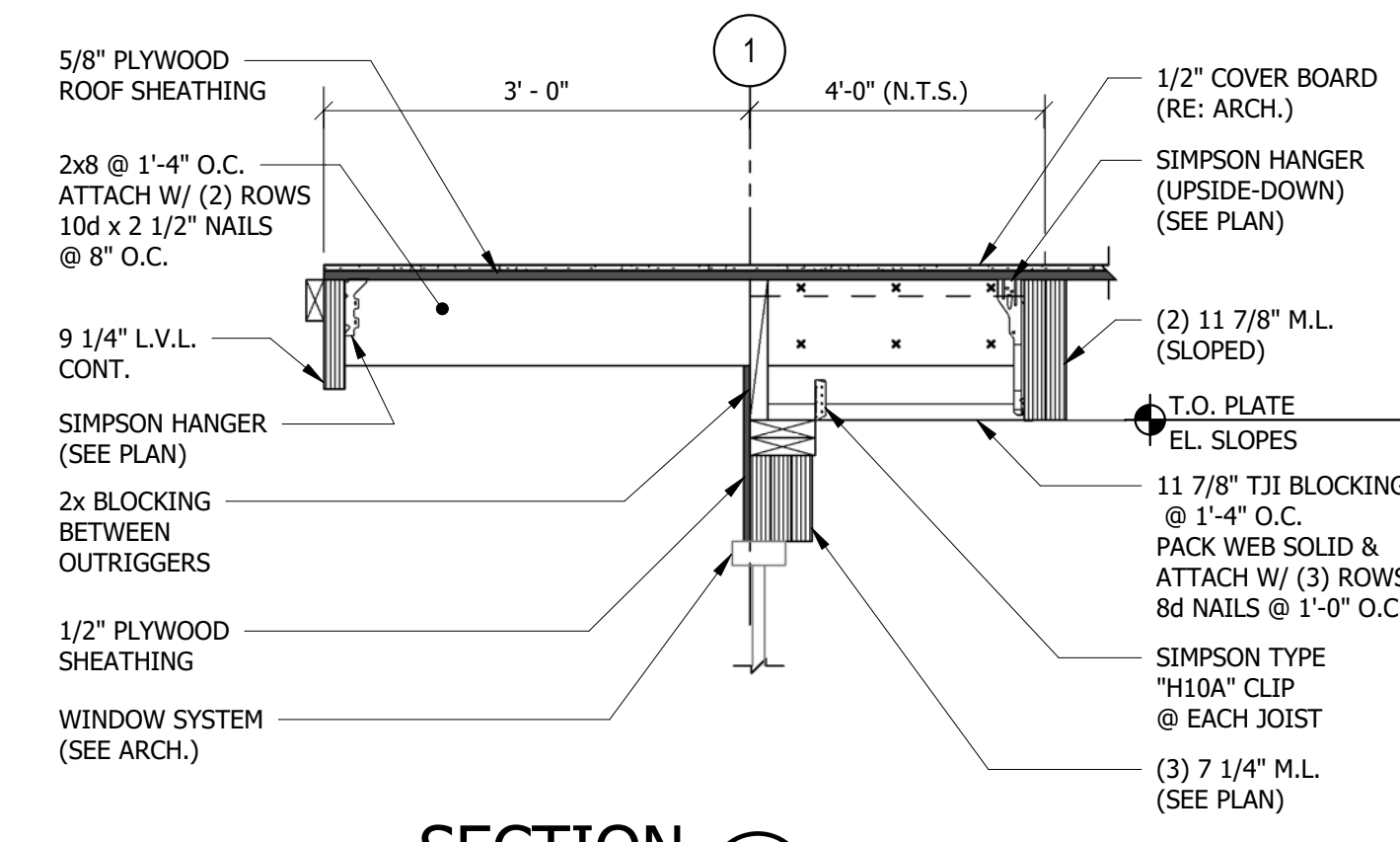
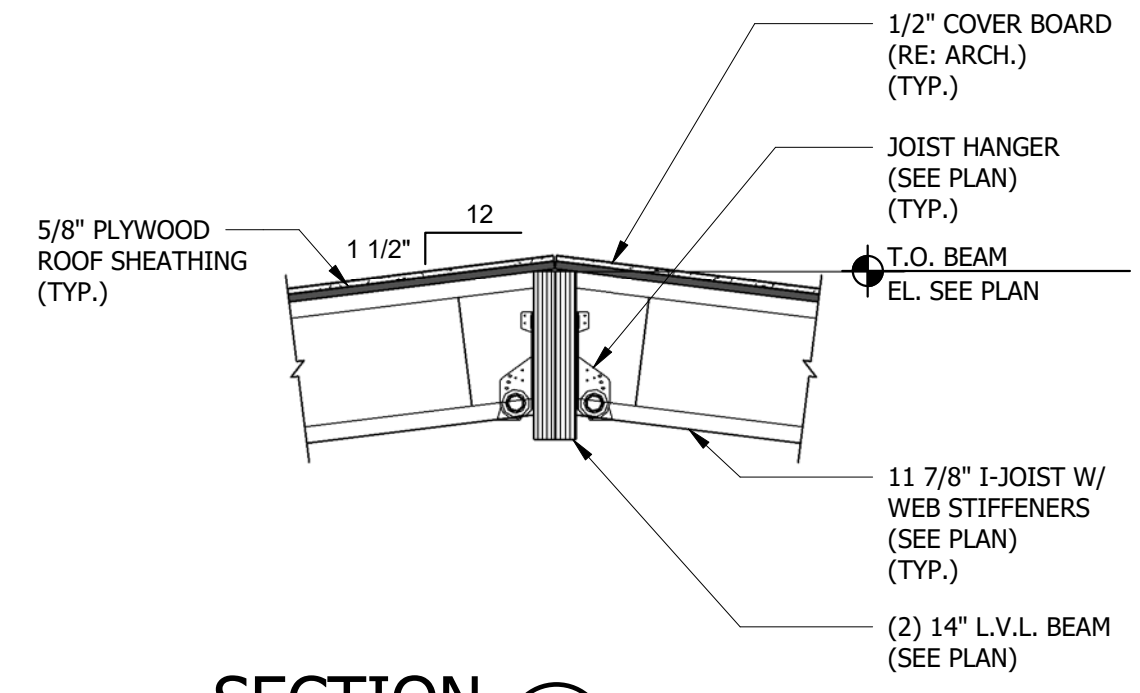
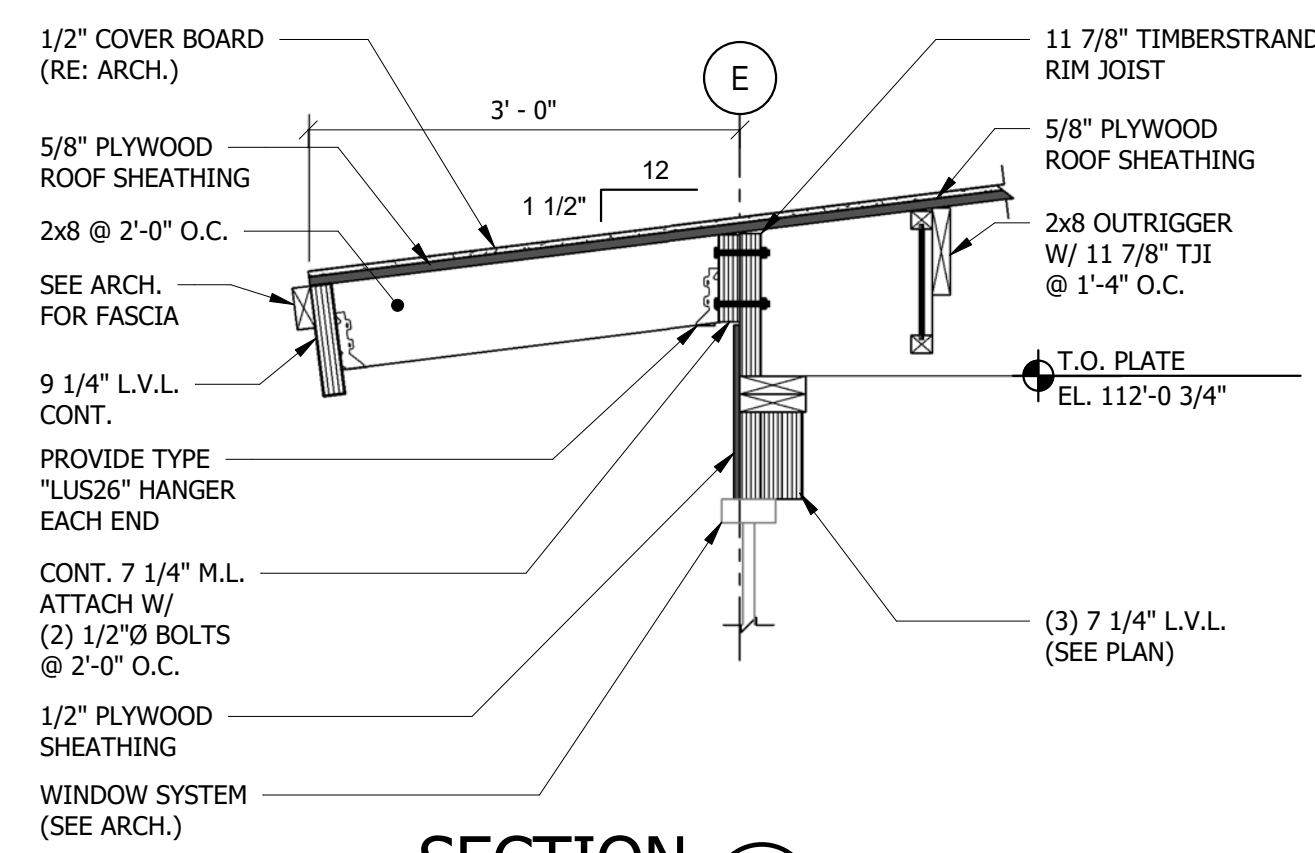
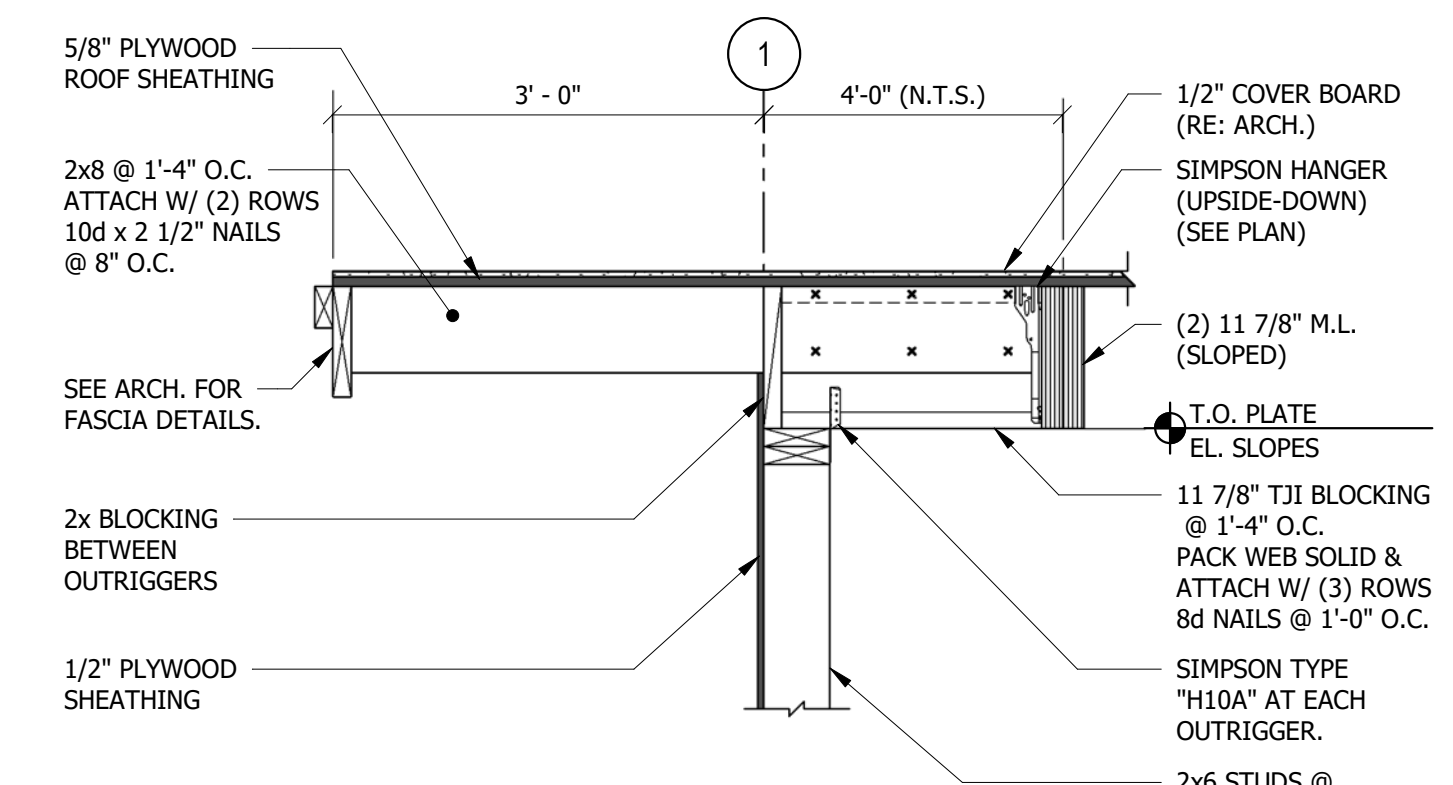
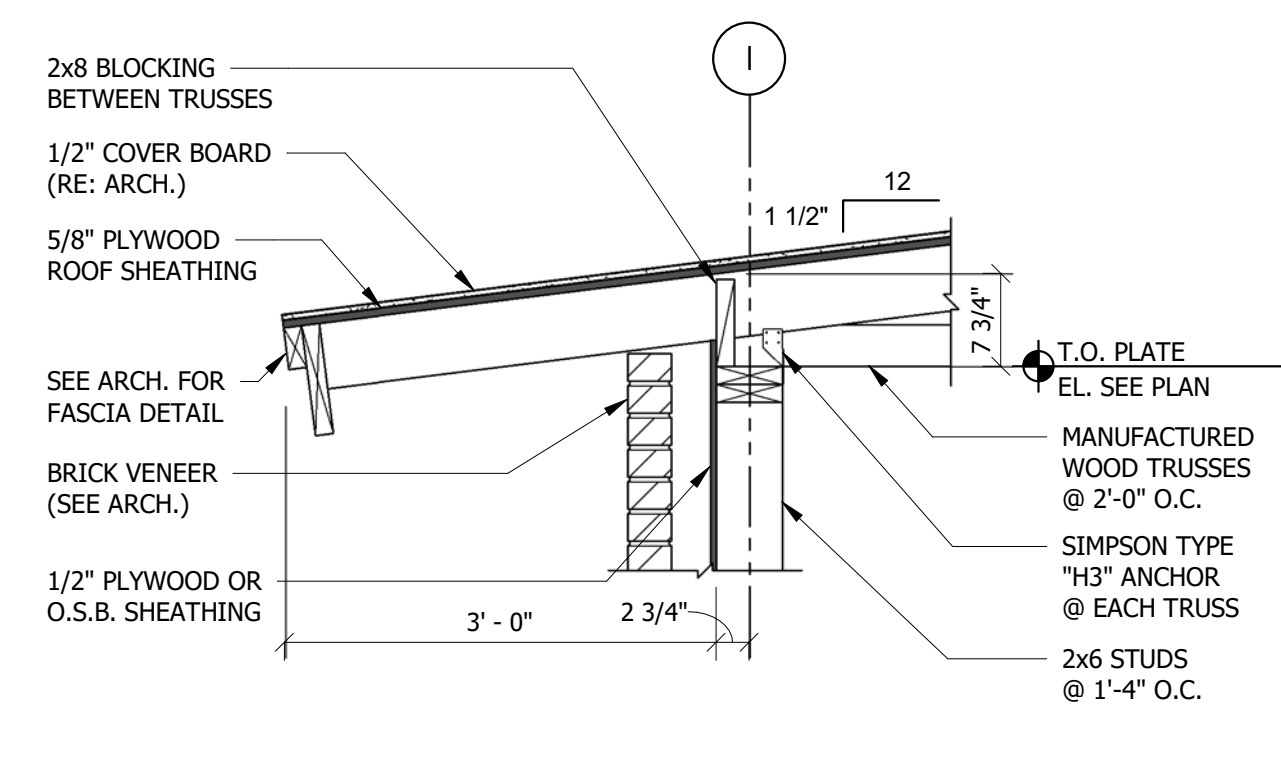
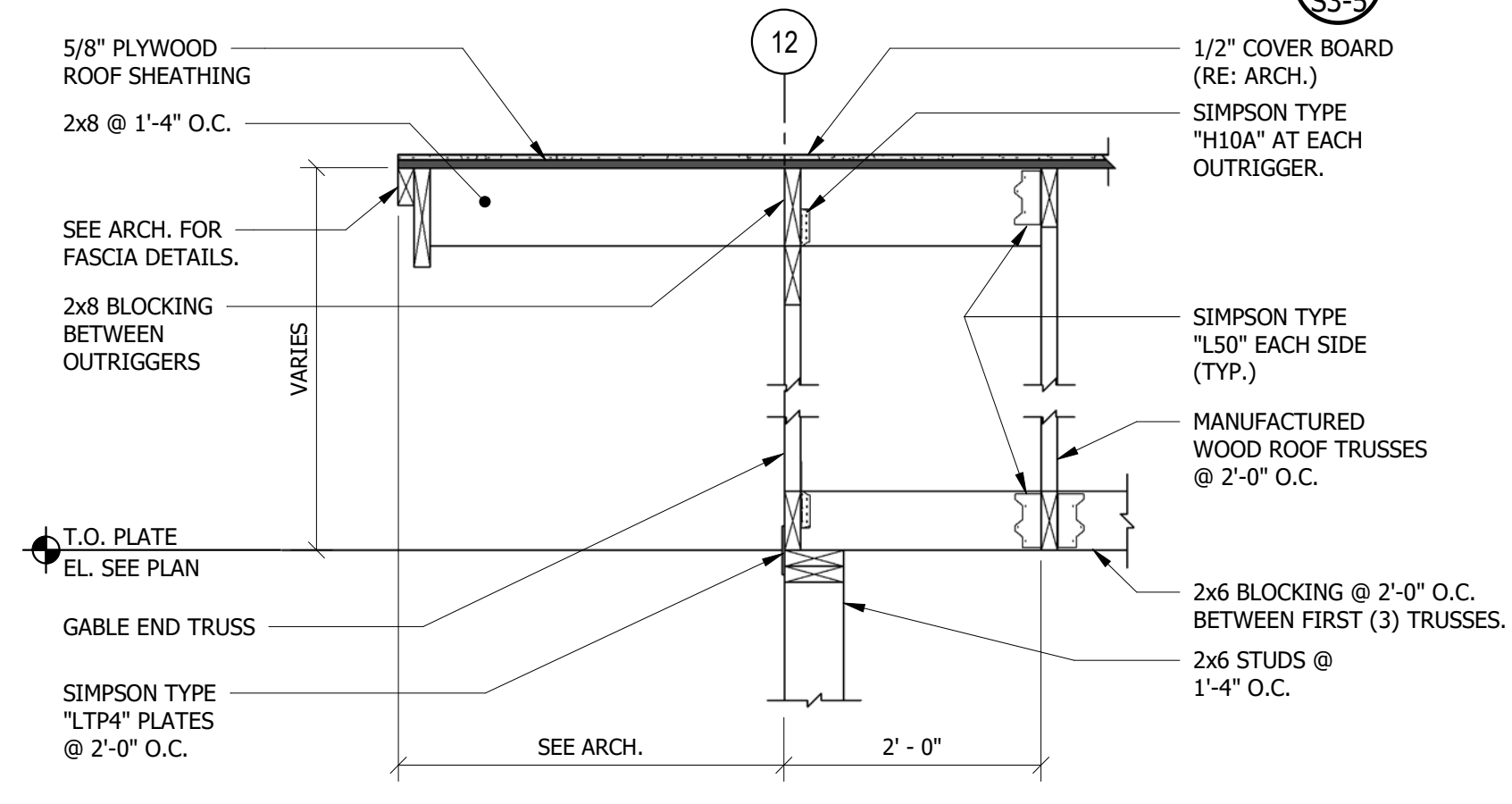
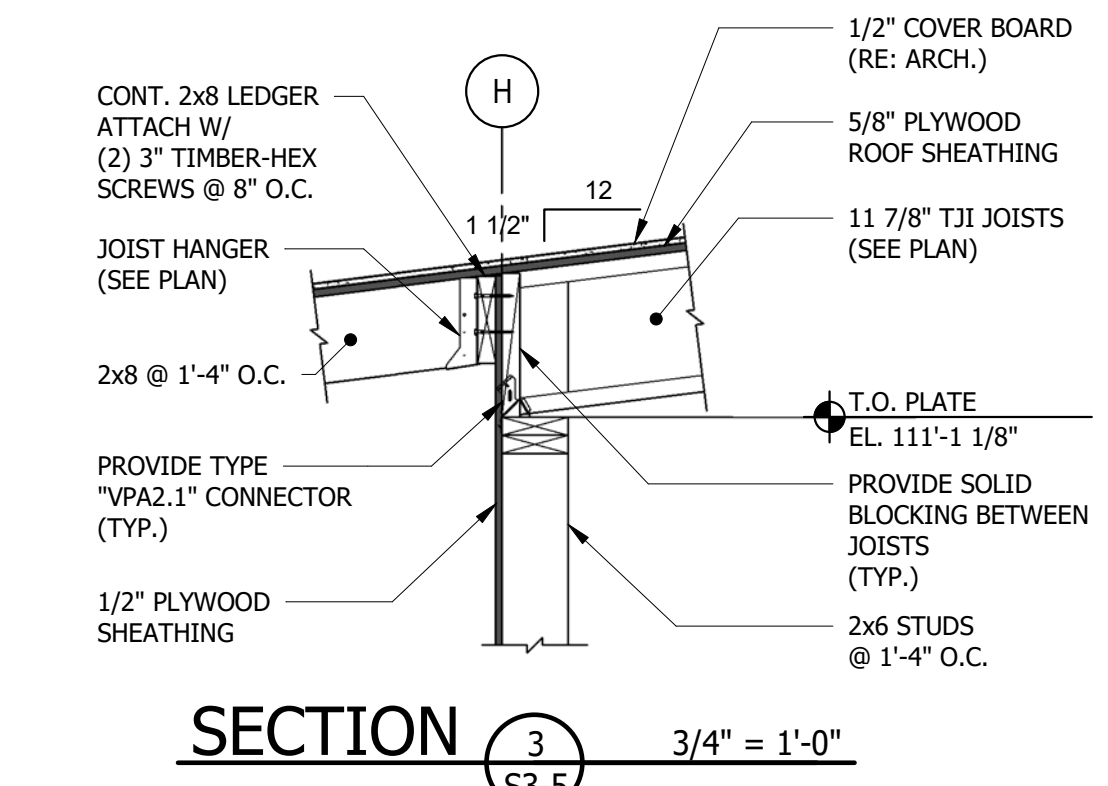
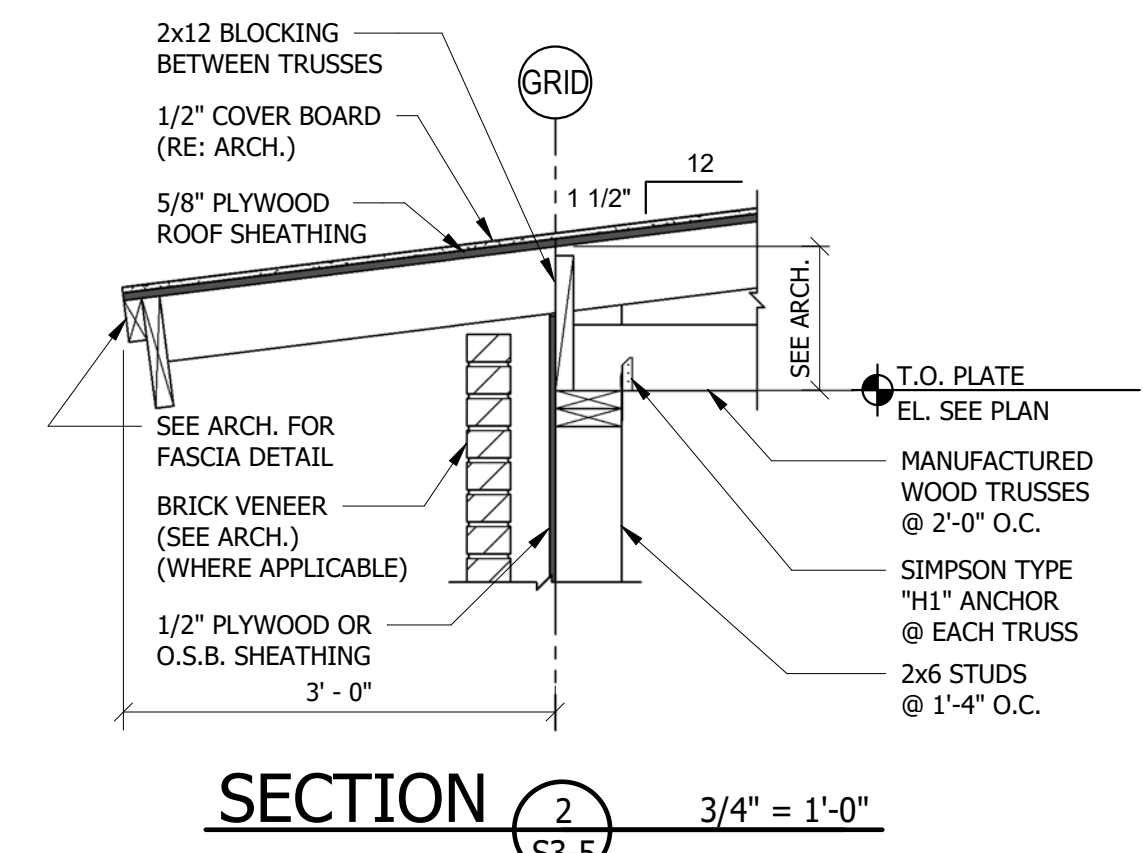
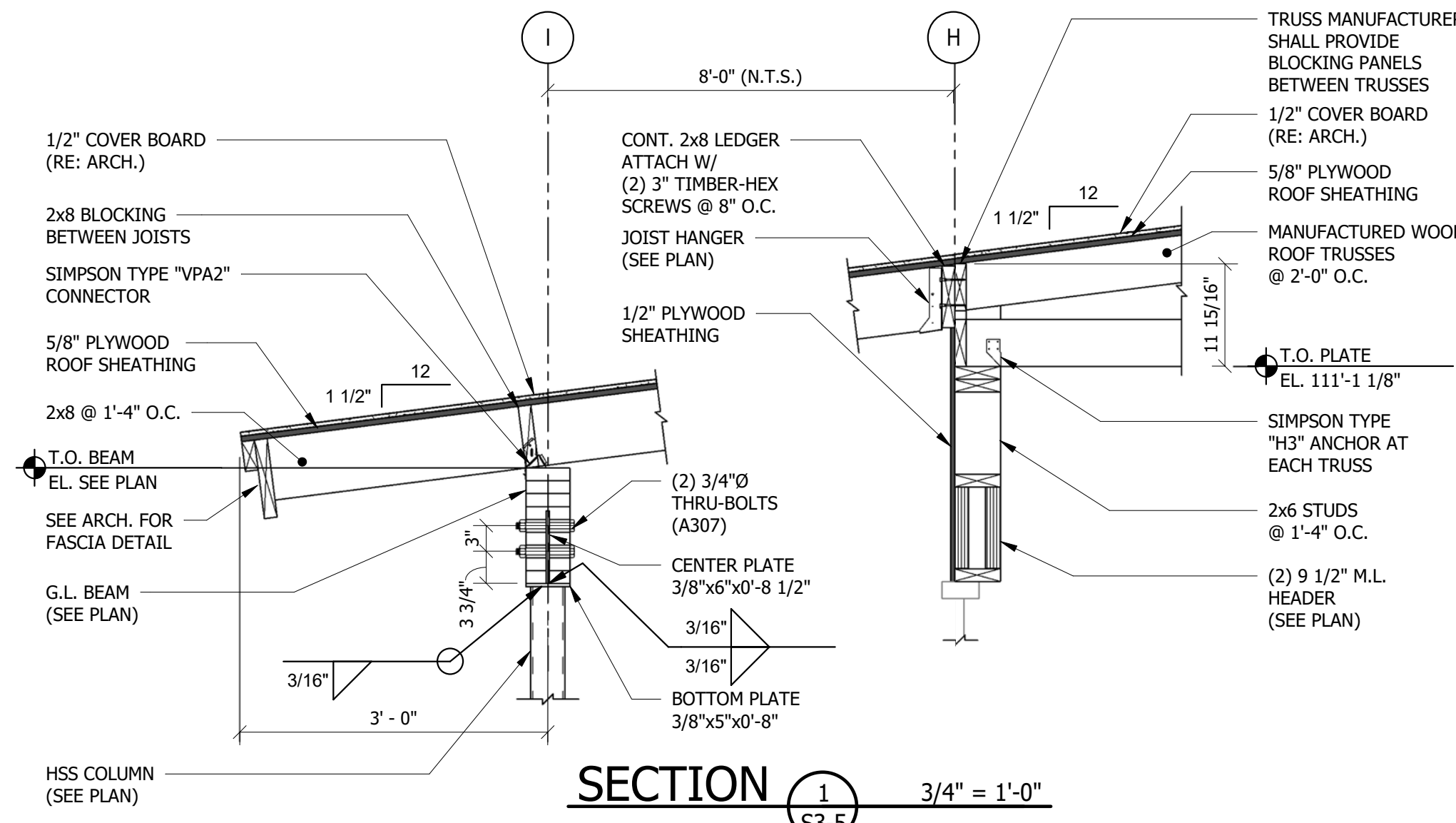


SECTION 10 1/2" = 1'-0"

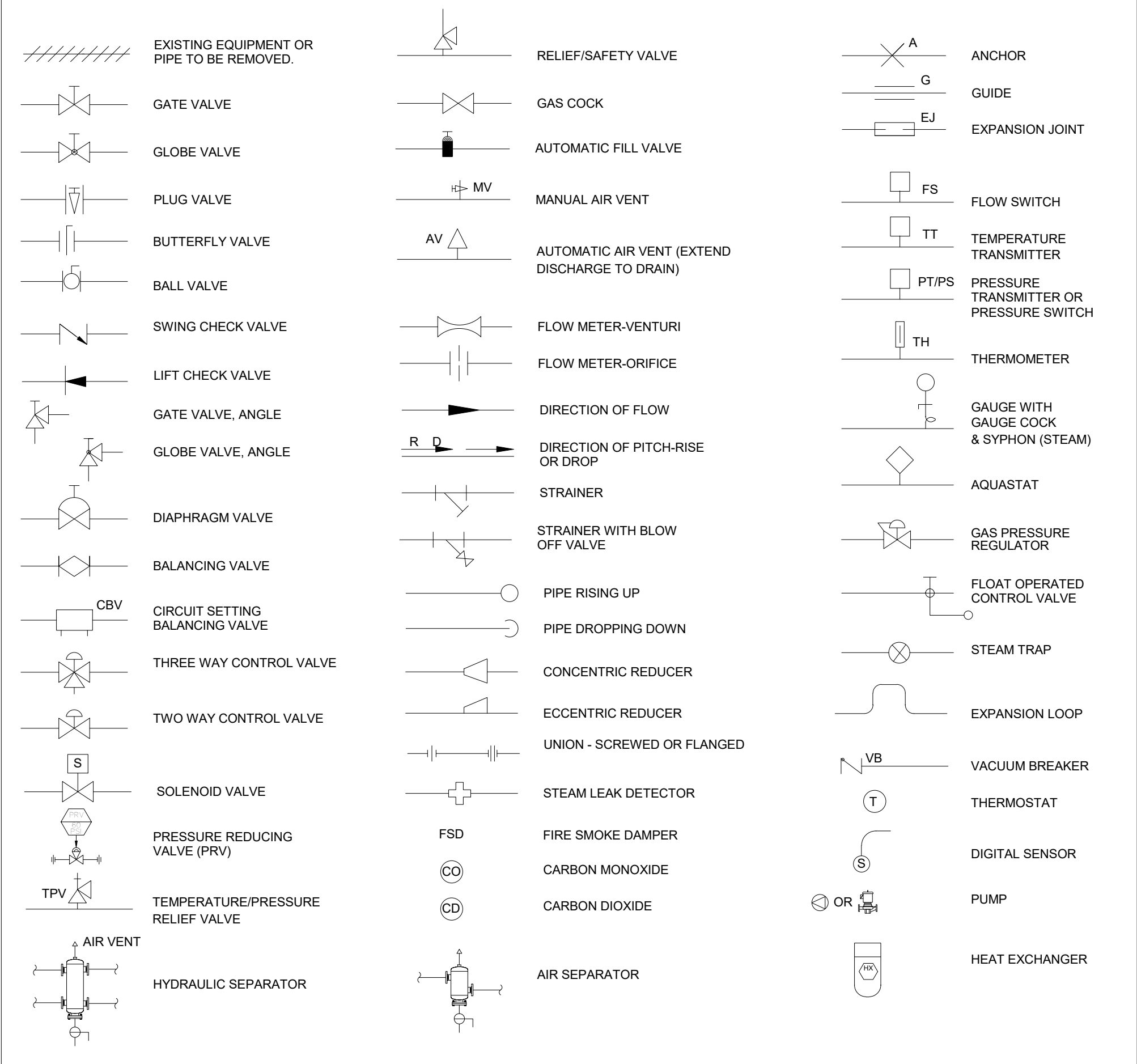


SECTION 11 1/2" = 1'-0"

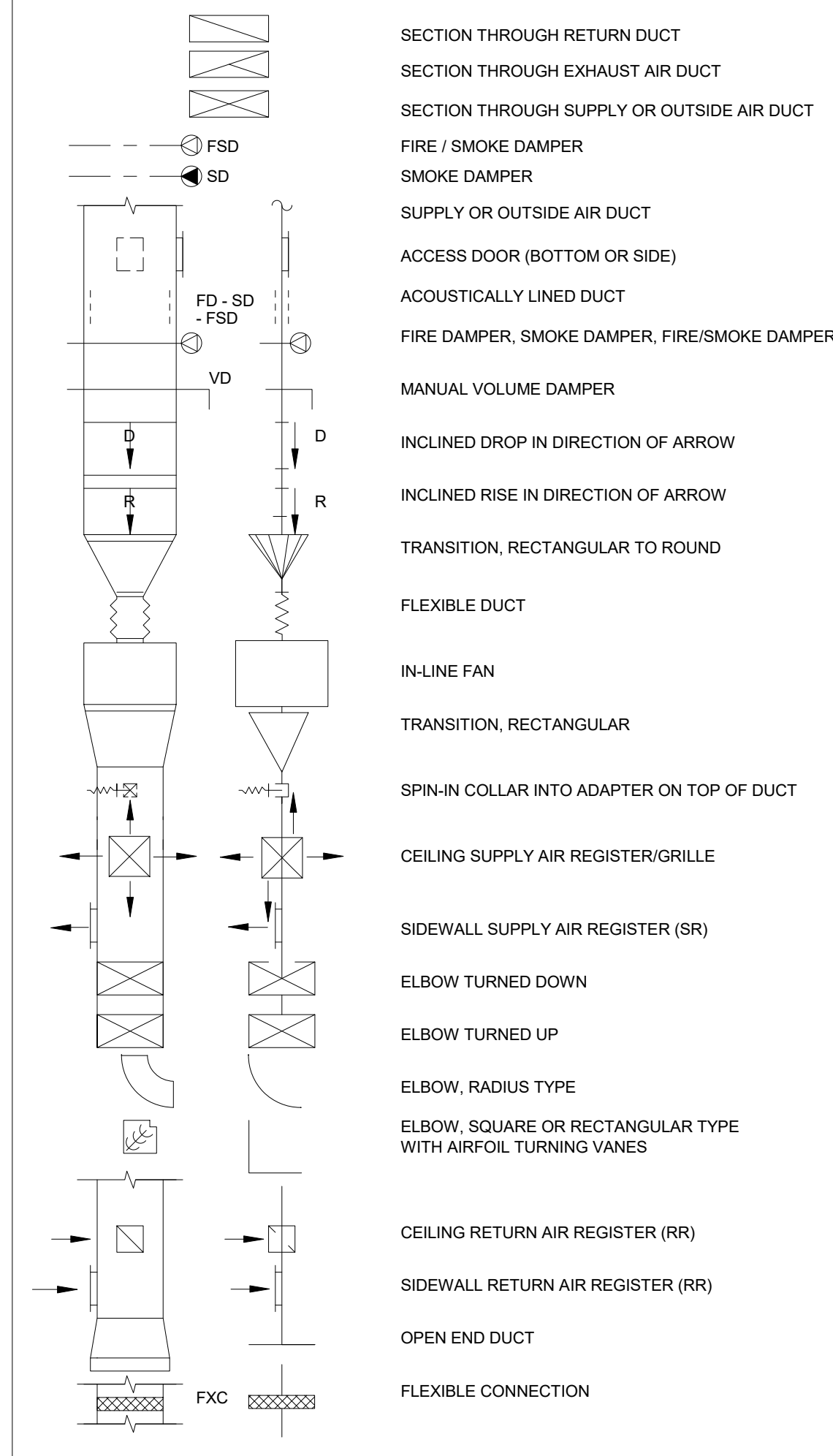




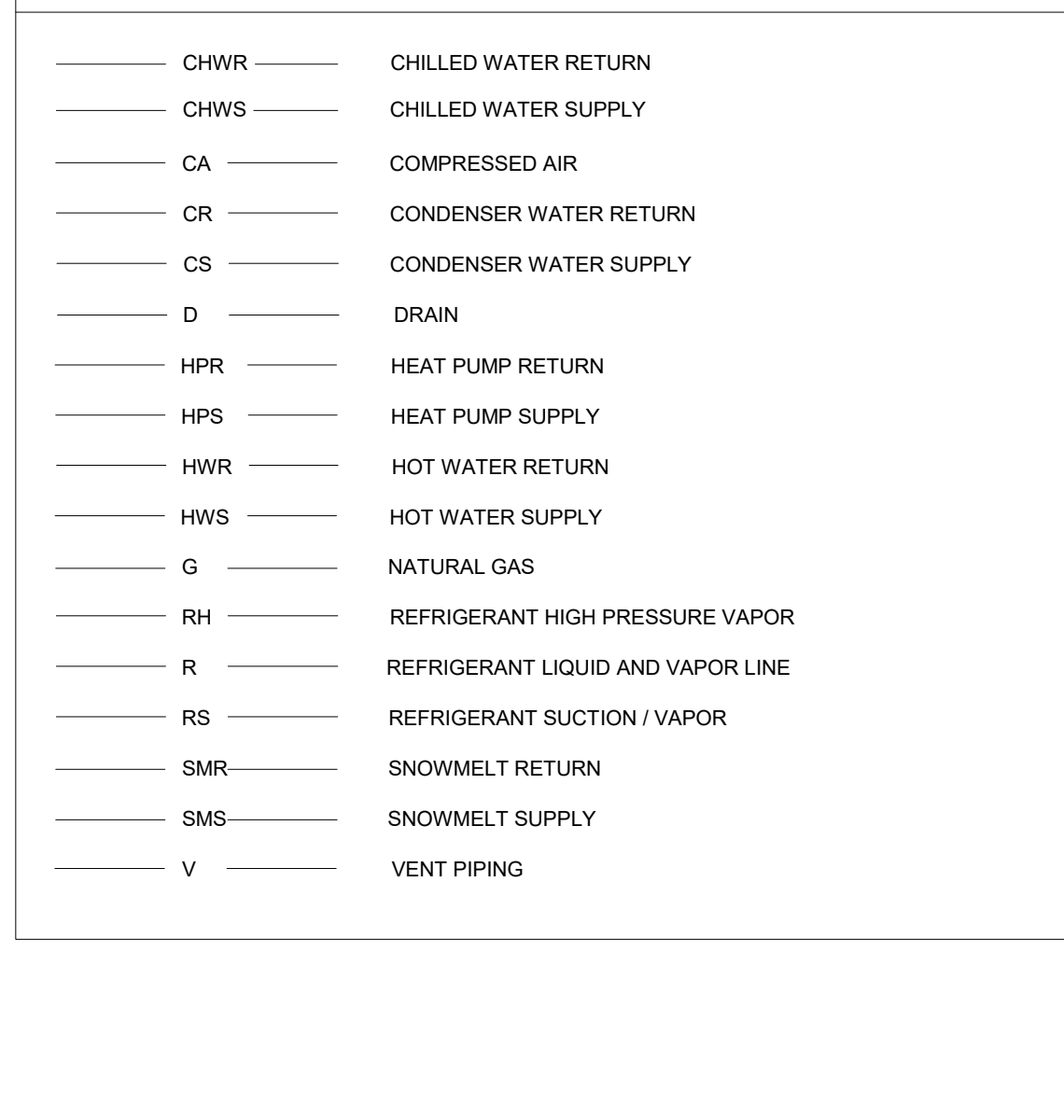
MECHANICAL ELEMENTS / VALVING



HVAC & DUCTWORK SYMBOLS



LINE DESIGNATION SYMBOLS



RESPONSIBLE DIVISION:

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN PLACE AND WIRED AS FOLLOWS:

EQUIPMENT	FURNISHED	SET	POWER WIRED	CONTROL WIRED
COMBINATION MAGNETIC MOTOR STARTERS, MAGNETIC MOTOR STARTERS, VFD'S AND CONTACTORS	23(1)	26	26(2)	23
FUSED AND UNFUSED DISCONNECT SWITCHES, THERMAL OVERLOAD SWITCHES AND HEATERS, MANUAL MOTOR STARTERS	26	26	26	--
MANUAL-OPERATING AND MULTI-SPEED SWITCHES	23	26	26	26
CONTROLS, RELAYS, TRANSFORMERS	23	23	26	23
THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
THERMOSTATS (LINE VOLTAGE)	23	23	26	26
TEMPERATURE CONTROL PANELS	23	23	26	23
MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP SWITCHES	23	23(2)	--	23(2)
PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)	--	23(2)
HEATING, COOLING, VENTILATION AND AIR CONDITIONING CONTROLS	23	23	26	23
EXHAUST FAN SWITCHES	23	26	26	23(2)

SUBSCRIPT FOOTNOTES:

- MOTOR STARTER TO INCLUDE CONTROL TRANSFORMER, HOA SWITCH, (1) NO AND (1) NC AUXILIARY CONTACT, AND "ON" AND "OFF" PILOT LIGHTS.
- IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26. WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23. CONNECT UNDER DIVISION 26.

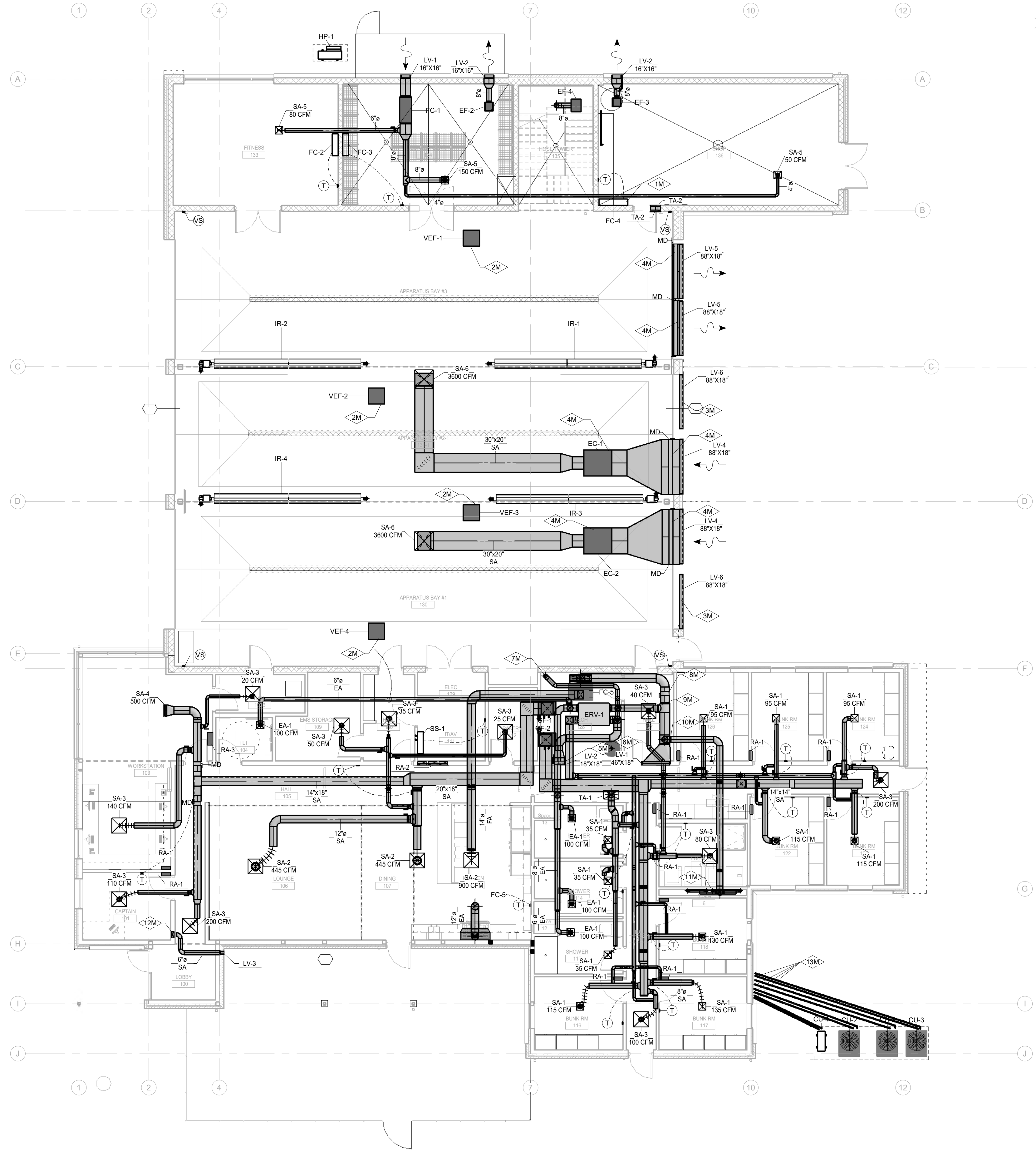
ABBREVIATIONS:

44' MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE	DIFF DIFFERENTIAL DISCHARGE	HR HOUR	PTAC PACKAGED TERMINAL AIR CONDITIONER
A AMPS	DISC DISCHARGE	HT HEIGHT	PV PLUG VALVE
A.D ACCESS DOOR	DIV DIVISION	HTR HEATER	PVC POLYVINYL CHLORIDE
AAV AIR ADMITTANCE VALVE	DN DOWN	HWR HEATING WATER RETURN	QTY QUANTITY
ABV ABOVE	DS DUCT SILENCER	HWS HEATING WATER SUPPLY	RA RETURN AIR GRILLE / REGISTER
AC AIR CONDITIONING UNIT	DWG DRAWING	HX HEAT EXCHANGER	RCP REFLECTED CEILING PLAN
AC ABOVE COUNTER	DX DIRECT EXPANSION	HZ HERTZ	RD ROOF DRAIN
AD AREA DRAIN (SEE SYMBOLS)	EA EXHAUST AIR GRILLE/REGISTER	ID INSIDE DIAMETER	REL RELIEF
A.F.C ABOVE FINISHED CEILING	EAT ENTERING AIR TEMPERATURE	IN INCHES	REQ REQUIRED
A.F.G ABOVE FINISHED GRADE	EC ELECTRICAL CONTRACTOR	INV INVERT	RF RETURN FAN
A.I.C AMPS INTERRUPTING CAPACITY	ECC ECCENTRIC	JBOX JUNCTION BOX	RH RELATIVE HUMIDITY
A.F.F ABOVE FINISHED FLOOR	EF EXHAUST FAN	K KELVIN	RHC REHEAT COIL
AHU AIR HANDLING UNIT	EFF EFFICIENCY	KW KILOWATT	RLA RATED LOAD AMPS
ALUM ALUMINUM	EA EXHAUST AIR GRILLE/REGISTER	KVA KILOVOLT - AMPS	RM ROOM
AP ACCESS PANEL OR DOOR	ELEV ELEVATOR	L LENGTH	RPM REVOLUTIONS PER MINUTE
ATS AUTOMATIC TRANSFER SWITCH	EM EMERGENCY FUNCTION	LAT LEAVING AIR TEMPERATURE	SA SUPPLY AIR GRILLE / REGISTER
AV AUDIO / VIDEO	ENT ENTERING	LF LINEAR FEET	SC SHORT CIRCUIT
AWG AMERICAN WIRE GAGE	EML ELECTRIC METALLIC TUBE	LB POUND	SCA SHORT CIRCUIT AVAILABLE
BAS BUILDING AUTOMATION SYSTEM	EQ EQUAL	LD LINEAR DIFFUSER	SCCR SHORT CIRCUIT CURRENT RATING
BB BASEBOARD	EQUI EQUIPMENT	LEAF LEAF	SCH SCHEDULE
BD BACK DRAFT DAMPER	EQUI EQUIVALENT	LIQ LIQUID	SD SMOKE DAMPER
BFP BACK FLOW PREVENTOR	ES END SWITCH	LM LUMEN	SEF SMOKE EXHAUST FAN SUPPLY FAN
BL BOILER	ESP EXTERNAL STATIC PRESSURE	LR LOCKED ROTOR AMPS	SH SENSIBLE HEAT
BLDG BUILDING	ET EXPANSION TANK	LV LOUVER	SH SHOWER
BLW BELOW	EWG ELECTRIC WATER COOLER	LWG LEAVING	SP STATIC PRESSURE
BOB BOTTOM OF BEAM	EWIT ENTERING WATER TEMPERATURE	LWT LEAVING WATER TEMPERATURE	SPD SURGE PROTECTION DEVICE
BOB BOTTOM OF DUCT	EX EXHAUST	MBH THOUSANDS OF BTU PER HOUR	MC MECHANICAL CONTRACTOR
BOP BOTTOM OF PIPE	EXPN EXPANSION	MCA MINIMUM CIRCUIT SPECIFICATION	MCB MAIN CIRCUIT BREAKER
BSTM BASEMENT	EXT EXTERNAL	MCB MAIN CIRCUIT BREAKER	MD MOTORIZED DAMPER
BTU BRITISH THERMAL UNIT	F FAHRENHEIT	MD MOTORIZED DAMPER	MDF MAIN DISTRIBUTION PANEL
C CHILLER	F FREE AREA	MDF MAIN DISTRIBUTION PANEL	MED MEDIUM
CAP CAPACITY	FC FAN COIL UNIT	MED MEDIUM	MFR MANUFACTURER
CB CIRCUIT BREAKER	FC FOOTCANDLE	MFR MANUFACTURER	MIN MINIMUM
CBV CIRCUIT BALANCING VALVE	FCV FLOW CONTROL VALVE	MIN MINIMUM	MISC MISCELLANEOUS
CCT CORRELATED COLOR TEMPERATURE	FD FIRE DAMPER	MISC MISCELLANEOUS	MLO MAIN LUG ONLY
CKT CIRCUIT	FD FLOOR DRAIN	MLO MAIN LUG ONLY	MOCOP MAXIMUM OVERCURRENT PROTECTION
CFH CUBIC FEET PER HOUR	FLA FULL LOAD AMPS	MOCOP MAXIMUM OVERCURRENT PROTECTION	MTD MOUNTED
CFM CUBIC FEET PER MINUTE	FLX FLEXIBLE	MTD MOUNTED	MJA MAKE-UP AIR UNIT
CHWR CHILLED WATER RETURN	FLR FLOOR	MJA MAKE-UP AIR UNIT	N NEUTRAL
CHWS CHILLED WATER SUPPLY	FOB FLAT ON BOTTOM	N NEUTRAL	NC NORMALLY CLOSED
CI CAST IRON	FOT FLAT ON TOP	NC NORMALLY CLOSED	NEG NEGATIVE
CL CENTER LINE	FP FIRE PROTECTION	NEG NEGATIVE	NIC NOT IN CONTRACT
CLG CEILING	FP FIRE PUMP	NIC NOT IN CONTRACT	NL NIGHT / SECURITY LIGHT - DO NOT SWITCH
CMU CONCRETE MASONRY UNIT	FPM FEET PER MINUTE	NL NIGHT / SECURITY LIGHT - DO NOT SWITCH	NO NORMALLY OPEN
CO CLEAN OUT	FPS FEET PER SECOND	NO NORMALLY OPEN	NOM NOMINAL
COL COLUMN	FS FLOW SWITCH	NOM NOMINAL	NTS NOT TO SCALE
COMP COMPRESSOR	FSD FIRE/SMOKE DAMPER	NTS NOT TO SCALE	OA OUTSIDE AIR
CONC CONCRETE	FT FEET	OA OUTSIDE AIR	OBD OPPOSED BLADE DAMPER
COND CONDENSATE	FXC FLEXIBLE CONNECTION	OBD OPPOSED BLADE DAMPER	OC ON CENTER
CONN CONNECTION	GND GROUND	OC ON CENTER	OCC OCCUPIED
CONT CONTINUATION	GA GAUGE	OCC OCCUPIED	OCP OVER CURRENT PROTECTION
CONTR CONTRACTOR	GAL GALLON	OCP OVER CURRENT PROTECTION	OD OUTSIDE DIAMETER
CR COLOR RENDERING INDEX	GALV GALVANIZED	OD OUTSIDE DIAMETER	OL OVERLOAD
CT COOLING TOWER	GEC GROUND ELECTRODE CONDUCTOR	OL OVERLOAD	ORD OVER/LOW ROOF DRAIN
CT CURRENT TRANSFORMER	GFCI / GFI GROUND FAULT CIRCUIT INTERRUPTER	ORD OVER/LOW ROOF DRAIN	WB WET BULL
CJ CONDENSING UNIT	GC GENERAL CONTRACTOR	WB WET BULL	WC WATER COLUMN
CJ COPPER	GPH GALLONS PER HOUR	WC WATER COLUMN	WD WATER GLOSET
CUH CABINET UNIT HEATER	GPM GALLONS PER MINUTE	WD WATER GLOSET	WG WATER GAUGE
CVB CONSTANT VOLUME BOX	GRSLB GRAINS PER POUND	WG WATER GAUGE	WP WEATHERPROOF
CWR CONDENSER WATER RETURN	H2O WATER	WP WEATHERPROOF	WPIU WEATHERPROOF IN-HOUSE
CWS CONDENSER WATER SUPPLY	HB HOSE BIBB	WPIU WEATHERPROOF IN-HOUSE	WSR WITHSTAND RATING
DB DRY BULB	HD HEAD (SEE SCHEDULES)	WSR WITHSTAND RATING	XPFR TRANSFORMER
DEPT DEPARTMENT	HP HEAT PUMP	XPFR TRANSFORMER	
DF DRINKING FOUNTAIN	HP HORSEPOWER		
DIA DIAMETER			
DIAG DIAGRAM			

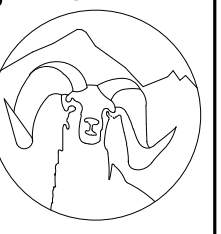
MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M0-1	MECHANICAL COVER SHEET
M1-1	MECHANICAL - FLOOR PLAN
M1-2	MECHANICAL - CRAWL SPACE PLAN
M1-3	MECHANICAL - ROOF PLAN
M3-1	MECHANICAL - SCHEDULES
M3-2	MECHANICAL - DETAILS

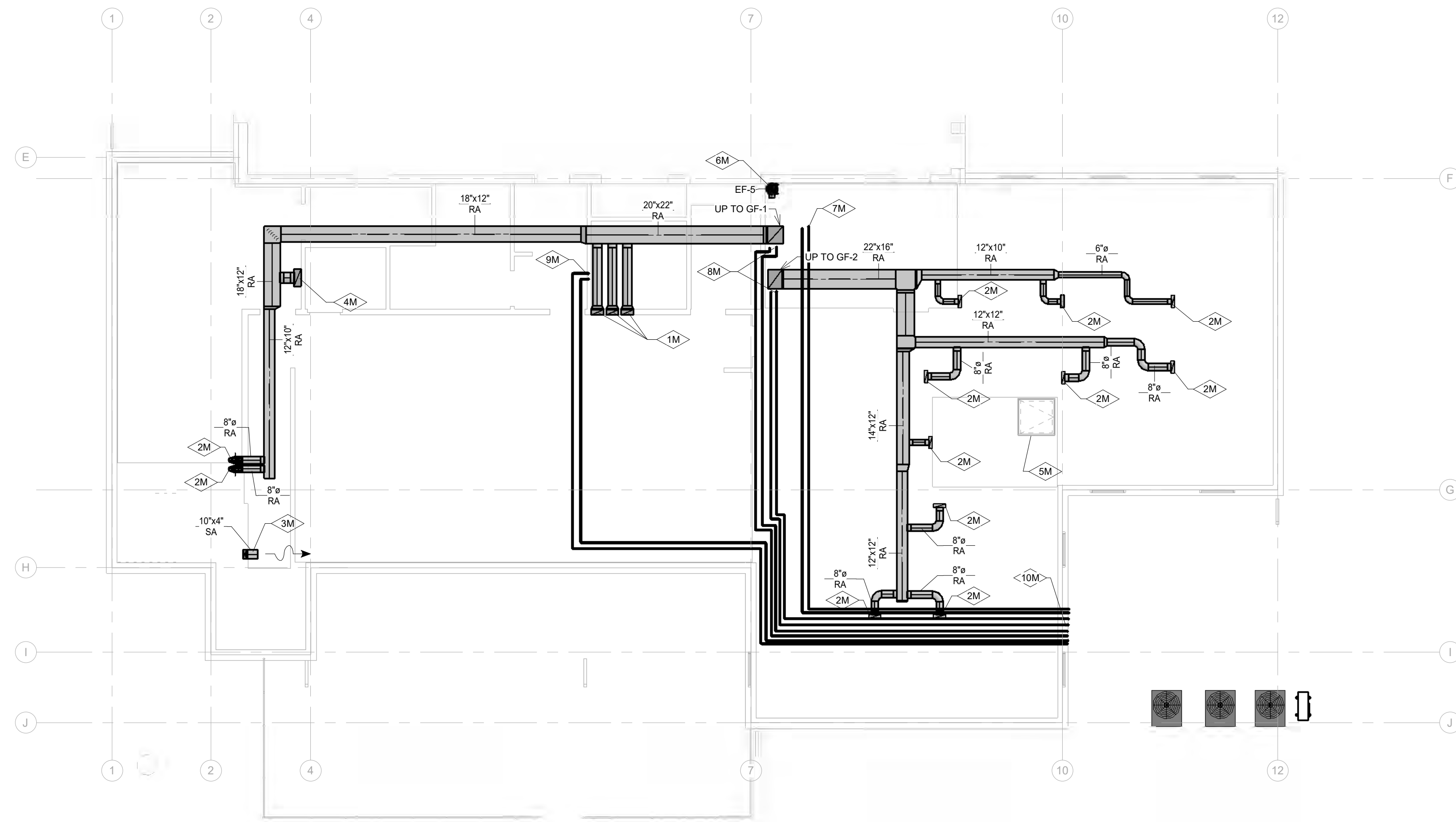
Note Number	Note Text
1M	FAN COIL WALL UNIT TO BE MOUNTED ON WALL IN SHOP SPACE BELOW MEZZANINE
2M	VEHICLE EXHAUST VENTILATION UNITS (VEF-#) TO BE ACTIVATED BY SENSORS(VS) LOCATED AT THE OVERHEAD DOORS. SENSORS TO BE LOCATED AS CLOSE TO EXTERIOR WALL AS POSSIBLE. FIELD COORDINATE EXACT LOCATIONS.
3M	NO AIR FLOW THROUGH LOUVER. PROVIDE SHEETMETAL ON INSIDE OF LOUVER. INSULATION TO BE PROVIDED BY GC.
4M	MOTORIZED DAMPER TO BE INTERLOCKED WITH OPERATION OF EVAPORATIVE COOLERS. DAMPERS TO BE IN THE OPEN POSITION WHEN EVAP IS RUNNING.
5M	EXHAUST LOUVER ON HIGH WALL TO EXTERIOR.
6M	OUTSIDE AIR INTAKE LOUVER ON HIGH WALL TO EXTERIOR.
7M	EXHAUST DUCT UP FROM EF-5 IN CRAWLSPACE TO ERV. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER. INTERLOCKED WITH OPERATION OF EF-5
8M	PROVIDE MOTORIZED BACKDRAFT DAMPER ON OUTSIDE AIR SUPPLY TO FC-5. INTERLOCK OPERATION OF MOTORIZED BACKDRAFT DAMPER TO FC-5
9M	PROVIDE MOTORIZED BACKDRAFT DAMPER ON OUTSIDE AIR SUPPLY TO ERV. INTERLOCK OPERATION IF MOTORIZED BACKDRAFT DAMPER TO ERV
10M	PROVIDE MOTORIZED BACK DRAFT DAMPER ON OUTSIDE AIR SUPPLY TO LAUNDRY ROOM. INTERLOCK OPERATION OF DAMPER WITH OPERATION OF CLOTHE DRYERS.
11M	DRYER VENT UP TO ROOF. FIELD COORDINATE EXACT LOCATION OF PENETRATION. MAINTAIN CLEARANCES FROM WALL MECHANICAL AIR INTAKES AS REQUIRED PER THE I.M.C.
12M	4"x10" FRESH AIR DUCT DROPS DOWN TO CRAWLSPACE BELOW. FIELD COORDINATE EXACT LOCATION OF DROP WITH STRUCTURE AND WALL ASSEMBLY.
13M	REFRIGERANT LIQUID AND SUCTION LINES TO BE ROUTED THROUGH SLEEVES UNDERGROUND FROM CONDENSING UNIT TO INSIDE CRAWLSPACE. ROUTE PER MANUFACTURES RECOMENDATIONS



MECHANICAL - FLOOR PLAN
1/8" = 1'-0"

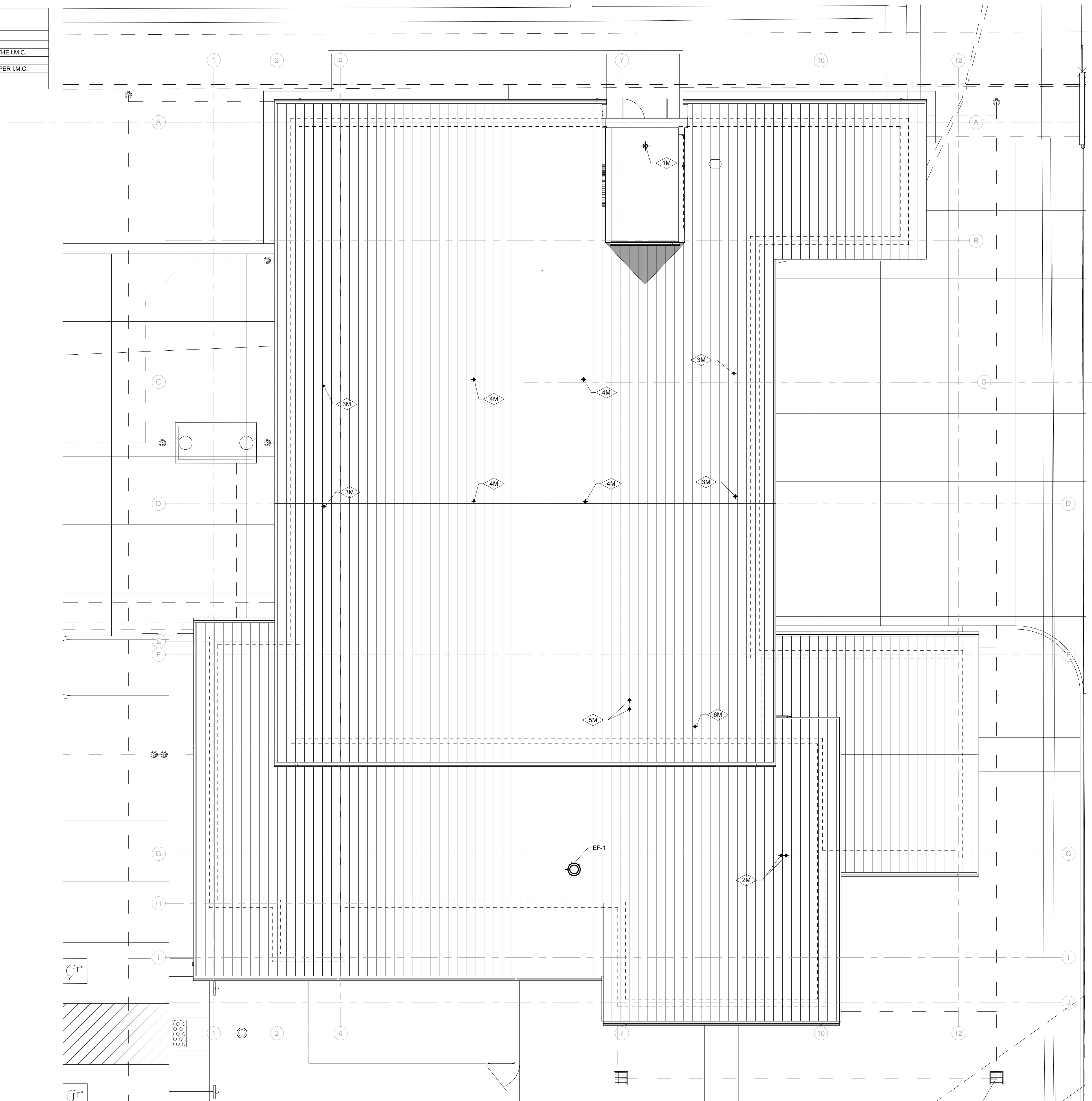


M1-2 MECHANICAL KEYNOTES	
Note Number	Note Text
1M	14"x6" RETURN DUCT DOWN FROM RETURN GRILLE ON MAIN FLOOR. COORDINATE EXACT LOCATIONS OF DROPS WITH STRUCTURE AND WALL ASSEMBLY. TYPICAL OF 3.
2M	14"x4" RETURN DUCT DOWN FROM FLOOR ABOVE.
3M	FRESH AIR SUPPLY TO CRAWL SPACE FROM ABOVE. SUPPLY DUCT TO BE OPEN ENDED IN CRAWL SPACE.
4M	8"x20" RETURN DUCT DOWN FROM FLOOR ABOVE.
5M	CRAWLSPACE ACCESS HATCH FROM LAUNDRY ROOM ABOVE. FOR REFERENCE ONLY. SEE ARCHITECTURAL PLANS FOR MORE DETAILS.
6M	EXHAUST FAN SUSPENDED FROM STRUCTURE IN CRAWLSPACE FOR VENTILATION. DUCT UP AND TIE INTO ERV ABOVE.
7M	REFRIGERENT LIQUID AND SUCTION PIPES UP FROM CRAWL SPACE TO SERVE FC-5.
8M	REFRIGERENT LIQUID AND SUCTION PIPES UP FROM CRAWL SPACE TO SERVE GF-1,GF-2.
9M	REFRIGERENT LIQUID AND SUCTION PIPES UP FROM CRAWL SPACE TO SERVE SS-1.
10M	REFRIGERENT LIQUID AND SUCTIONS LINE ROUTED THROUGH FOUNDATION WITH SLEVE.



② MECHANICAL - CRAWL SPACE PLAN
1/8" = 1'-0"

M1-3 MECHANICAL KEYNOTES	
Note Number	Note Text
1M	EXHAUST DUCT THROUGH ROOF.
2M	DRYER VENT THROUGH ROOF. MAINTAIN CLEARANCES FROM MECHANICAL AIR INTAKE AS REQUIRED BY THE I.M.C.
3M	COMBUSTION AIR FOR INFARED GAS HEATER
4M	GAS FLUE FROM INFARED GAS HEATERS. MAINTAIN 10' CLEARANCE FROM ALL MECHANICAL AIR INTAKES PER I.M.C.
5M	CONCENTRIC GAS FLUE/COMBUSTION AIR THROUGH ROOF FROM GAS FURNACE
6M	CONCENTRIC GAS FLUE/COMBUSTION AIR VENT THROUGH ROOF FROM WATER HEATER



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



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**GRAND JUNCTION FIRE
DEPARTMENT - FIRE
STATION #3**
580 25 1/2 RD GRAND
JUNCTION, COLORADO 81505

MECHANICAL - ROOF PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2-25-2021
PROJECT #: 20-213
SHEET #:

M1-3



GRILLE-REGISTER-DIFFUSER SCHEDULE

TYPE MARK	SIZE	FINISH	MANUFACTURER	MODEL #	NOTES
EA-1	12"X12"	COLOR BY OWNER/ARCH	PRICE	500	NOTE-1
RA-1	PER PLANS	COLOR BY OWNER/ARCH	PRICE	LBP	NOTE-2
RA-2	PER PLANS	COLOR BY OWNER/ARCH	PRICE	500	NOTE-3
RA-3	PER PLANS	COLOR BY OWNER/ARCH	PRICE	LBP	NOTE-2
SA-1	12"X12"	COLOR BY OWNER/ARCH	PRICE	SPD	NOTE-4
SA-2	24"X24"	COLOR BY OWNER/ARCH	PRICE	SPD	NOTE-4
SA-3	18"X12"	COLOR BY OWNER/ARCH	PRICE	SPD	NOTE-5
SA-4	18"X12"	COLOR BY OWNER/ARCH	PRICE	600	NOTE-5
SA-5	12"X12"	COLOR BY OWNER/ARCH	PRICE	SCD	NOTE-5
SA-6	30"X30"	COLOR BY OWNER/ARCH	PRICE	SPD	NOTE-5
TA-1	24"X12"	COLOR BY OWNER/ARCH	PRICE	500	NOTE-6
TA-2	8"X8"	COLOR BY OWNER/ARCH	PRICE	500	NOTE-7

- NOTES:
 1. CEILING MOUNTED EXHAUST GRILLE. COORDINATE MOUNTING WITH CEILING TYPES. FEILD COORDINATE EXACT LOCATION OF GRILLE IN SPACE. FINAL COLOR SELECTION BY OWNER/ARCHITECT.
 2. FLOOR MOUNTED RETURN GRILLE. COORDINATE MOUNTING WITH FLOOR SPACES.
 3. WALL MOUNTED RETURN GRILLE. COORDINATE MOUNTING WITH WALL ASSEMBLY.
 4. CEILING MOUNTED SUPPLY DIFFUSER. COORDINATE MOUNTING WITH CEILING TYPES. PROVIDE WITH MANUAL VOLUME DAMPER. FINAL COLOR BY OWNER/ARCHITECT.
 5. DUCT MOUNTED SUPPLY GRILLE. PROVIDE WITH MANUAL VOLUME DAMPER.
 6. WALL MOUNTED TRANSFER GRILLE. COORDINATE MOUNTING WITH WALL ASSEMBLY.
 7. CEILING MOUNTED TRANSFER GRILLE. PROVIDE WITH OFFSET BLADE DAMPER.

ENERGY RECOVERY VENTILATOR SCHEDULE

TYPE MARK	SERVICE	LOCATION	SUPPLY FAN					EXHAUST FAN					ELECTRICAL		MANUFACTURER	MODEL #	OPTIONS/ACCESSORIES				
			AIRFLOW (CFM)	E.S.P. (IN. W.G.)	MOTOR HP	TYPE	VOLTS	PHASE	FREQUENCY	E.S.P. (IN. W.G.)	AIRFLOW (CFM)	MOTOR HP	TYPE	VOLTS				PHASE	FREQUENCY	MCA (A)	MOCP (A)
ERV-1	VENTILATION	MECHANICAL ROOM	938	.08	0.5	ECM	230	1	60 Hz	0.8	938	0.5	ECM	230 V	1	60 Hz	11 A	15 A	SOLER&PALLIA	TRCE000-230	NOTE-1

- NOTES:
 1. PROVIDE WITH VIBRATION ISOLATION CEILING HANGERS, FLEXIBLE DUCT CONNECTIONS, ECM MOTOR SPEED CONTROLLER, MERV 8 FILTERS, AND HINGED ACCESS DOORS.

GAS FURNACE SCHEDULE

MARK	SERVICE	SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	SUPPLY E.S.P. (IN. W.G.)	NOM. COOLING CAPACITY (MBH)	HEATING			A.F.U.E. EFF.	SUPPLY FAN MOTOR POWER	ELECTRICAL					MANUFACTURER	MODEL #	NOTES
						GAS FLOW RATE (CFH)	INPUT (MBH)	OUTPUT (MBH)			VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)			
GF-1	KITCHEN/LIVING, DINING, OFFICES	1750	-	0.9	36	90.5	80	77	96	1	120 V	1	60 Hz	14 A	15 A	TRANE	4TXCD10DS3	NOTE-1
GF-2	BUNK ROOMS & ADJACENT	1150	-	0.9	22.5	67.9	60	58.2	96	3/4	120 V	1	60 Hz	8 A	15 A	TRANE	4PXCBU36BS3	NOTE-1

- NOTES:
 1. UPFLOW/DOWNFLOW GAS FURNACE. PROVIDE WITH VIBRATION ISOLATION, FLEXIBLE DUCT CONNECTIONS, EVAPORATOR DEFROST CONTROLS, CONCENTRIC VENT KIT, HIGH ALTITUDE KIT SIZED FOR LOCAL ELEVATION, DX COOLING COIL, THERMOSTATS, TOUCHSCREEN PROGRAMABLE CONTROLLER.

GAS FIRED INFRARED HEATER SCHEDULE

MARK	SERVICE	LENGTH	GAS FLOW RATE (CFH)	INPUT (MBH)	OUTPUT (MBH)	GAS PIPE CONNECTION SIZE	VENT OUTLET SIZE	AIR INLET SIZE	ELECTRICAL					MANUFACTURER	MODEL #	OPTIONS/ACCESSORIES	
									VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)				MOTOR HP
IR-1	APPARATUS BAY [20'-0"]	67.9	60	49	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1
IR-2	APPARATUS BAY [20'-0"]	67.9	60	49	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1
IR-3	APPARATUS BAY [20'-0"]	67.9	60	49	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1
IR-4	APPARATUS BAY [20'-0"]	67.9	60	49	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1

- NOTES:
 1. PROVIDE WITH THERMOSTAT, HEAT SHIELD, COMBUSTION AIR AND GAS FLUES ROUTED TO ROOF, AND CEILING HANGERS AND SISMEC SUPPORTS AS REQUIRED BY I.B.C.

FAN COIL SCHEDULE

TYPE MARK	SERVICE	SUPPLY AIRFLOW (CFM)	SUPPLY E.S.P. (IN. W.G.)	NOM. COOLING (BTU/H)	NOM. HEATING (BTU/H)	FILTERS	SUPPLY FAN MOTOR POWER	ELECTRICAL					UNIT WEIGHT	MANUFACTURER	MODEL #	OPTIONS/ACCESSORIES
								VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)				
FC-1	OUTSIDE AIR	650	-	5 KW	13500 BTU/H	2" MERV 8	1/6	208 V	3	60 Hz	14.90 A	20 A	118.00 lb	MARKEL	F3G7205	NOTE-1
FC-2	FITNESS	413	-	12000	15000 BTU/H	-	-	230 V	2	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFPY012MH142A	NOTE-2
FC-3	BUNKER GEAR	413	-	15000	17000 BTU/H	-	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFPY015HM142A	NOTE-2
FC-4	SHOP	413	-	15000	17000 BTU/H	-	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFPY015HM142A	NOTE-2
FC-5	KITCHEN MAKE-UP-AIR	900	.5	35000	-	2" MERV 8	1	208 V	1	60 Hz	9.66 A	15 A	230.90 lb	TRANE	BCVD036B1	NOTE-3

- NOTES:
 1. PROVIDE WITH SINGLE STAGE THERMOSTAT. ACCESS PANELS ON BOTH SIDES OF UNIT. HANGER KIT WITH VIBRATION ISOLATION, FLEXIBLE DUCT CONNECTIONS.
 2. WALL MOUNTED UNIT. PROVIDE WITH REMOTE THERMOSTAT, CONDENSATE PUMP, VARIABLE SPEED FAN, REMOVEABLE INTAKE GRILLE FILTER.
 3. FLOOR MOUNTED UNIT. PROVIDE WITH ECM MOTOR, DRAINPAN, REMOTE THERMOSTAT, FLEXIBLE DUCT CONNECTIONS, REFRIGERENT PIPING ROUTED PER MANUFACTURES SPECIFICATIONS.

EXHAUST FAN SCHEDULE

TYPE MARK	SERVICE	LOCATION	AIRFLOW (CFM)	EXHAUST FAN MOTOR POWER	EXHAUST FAN SPEED (RPM)	MOTOR		ELECTRICAL	FREQUENCY	MANUFACTURER	MODEL #	NOTES
						VOLTS	PHASE					
EF-1	KITCHEN HOOD	ROOF	900	1/3 HP	1750	115 V	1	60 Hz	S&P USA	STXDE10	NOTE-1	
EF-2	BUNKER GEAR	CEILING	195	1/6 HP	740	115 V	1	60 Hz	S&P USA	FF200S	NOTE-2	
EF-3	SHOP	CEILING	300	1/5 HP	648	115 V	1	60 Hz	S&P USA	FF400S	NOTE-2	
EF-4	STAIR TOWER	CEILING	500	2/3 HP	955	115 V	1	60 Hz	S&P USA	FF1500S	NOTE-2	
EF-5	CRAWL SPACE	INLINE	90	75 W	-	115 V	1	60 Hz	FANTECH	FG-4XL	NOTE-3	
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	-	3/4 HP	-	120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	NOTE-4	

- NOTES:
 1. ROOF MOUNTED FAN FOR KITCHEN HOOD. PROVIDE WITH ROOF CURB, SPEED CONTROL, BIRD SCREEN, MOTORIZED BACKDRAFT DAMPER
 2. PROVIDE WITH SPEED CONTROL, VIBRATION ISOLATION, CEILING GRILLE, BACKDRAFT DAMPER, 12" ACOUSTIC INSULATION
 3. INLINE FAN, PROVIDE WITH SPEED CONTROLLER, THERMAL OVERLOAD PROTECTION, MOUNTING BRACKET, ROUND DUCT CONNECTIONS.
 4. PROVIDE WITH CEILING SUSPENSION, SEISMIC BRACING. VEHICLE EXHAUST VENTILATORS TO BE ACTIVATED BY SENSORS MOUNTED AT BAY DOORS.

SPLIT SYSTEM EQUIPMENT SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (BTU/HR)	NOM. HEATING CAPACITY (BTU/HR)	SUPPLY AIRFLOW (CFM)	EER EFF.	REFRIGERANT PIPING		ELECTRICAL					MANUFACTURER	MODEL #	OPTIONS/ACCESSORIES
						LIQUID	VAPOR	VOLTS	PHASE	FREQUENCY	MCA (A)				
CJ-4	IT ROOM	12000	-	-	12	1/4"	1/2"	208 V	1	60 Hz	11 A	1	MITSUBISHI ELECTRIC	PUY-A12NKA7	NOTE-1
SS-1	IT ROOM	12000	-	425	-	1/4"	1/2"	208 V	1	60 Hz	1 A	1	MITSUBISHI ELECTRIC	PKA-A12HA77	NOTE-2

- NOTES:
 1. LOW AMBIENT COOLING, VARIABLE SPEED INVERTER, ROUTE REFRIGERENT PER MANUFACTURERS INSTRUCTIONS.
 2. WALL MOUNTED UNIT, PROVIDE WITH REMOTE THERMOSTAT, CONDENSATE PUMP, VARIABLE SPEED FAN, REMOVEABLE INTAKE GRILLE FILTER.

HEAT PUMP CONDENSING UNIT SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (TONS)	NOM. HEATING CAPACITY	REFRIG. PIPING LIQUID	REFRIG. PIPING VAPOR	ELECTRICAL					MANUFACTURER	MODEL #	OPTIONS/ACCESSORIES
						VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)			
HP-1	FC-2,3,4	3 TONS	42 MBH	3/8"	5/8"	230 V	1	60 Hz	29 A	44 A	TRANE/MITSUBISHI ELECTRIC	TUMYP0361AK42	NOTE-1

- NOTES:
 1. LOW AMBIENT COOLING, VARIABLE SPEED INVERTER, ROUTE REFRIGERENT PER MANUFACTURERS INSTRUCTIONS. PROVIDE WITH 18" STAND, HEATED PAD.

AIR COOLED CONDENSING UNIT

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (TONS)	REFRIGERANT PIPING		ELECTRICAL					MANUFACTURER	MODEL #	OPTIONS/ACCESSORIES
			LIQUID	VAPOR	VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)			
CU-1	GF-1	4 TONS	3/8"	7/8"	230 V	1	60 Hz	28 A	45 A	TRANE	4TR7048B	NOTE-1
CU-2	GF-2	3 TONS	3/8"	3/4"	230 V	1	60 Hz	24 A	35 A	TRANE	4TR7036A	NOTE-1
CU-3	FC-5	3 TONS	3/8"	3/4"	230 V	1	60 Hz	24 A	35 A	TRANE	4TR7036A	NOTE-2

- NOTES:
 1. PROVIDE WITH DEFROST CONTROLS AND SEQUENCES, HOUSEKEEPING PAD, LOW AMBIANT COOLING, REFRIGERENT PIPE TO BE ROUTED PER MANUFACTURES INSTRUCTION. TIE IN CONTROLS TO RESPECTIVE GAS FURNACE.
 2. PROVIDE WITH DEFROST CONTROLS AND SEQUENCES, HOUSEKEEPING PAD, LOW AMBIANT COOLING, REFRIGERENT PIPE TO BE ROUTED PER MANUFACTURES INSTRUCTION.

EVAPORATIVE COOLER SCHEDULE

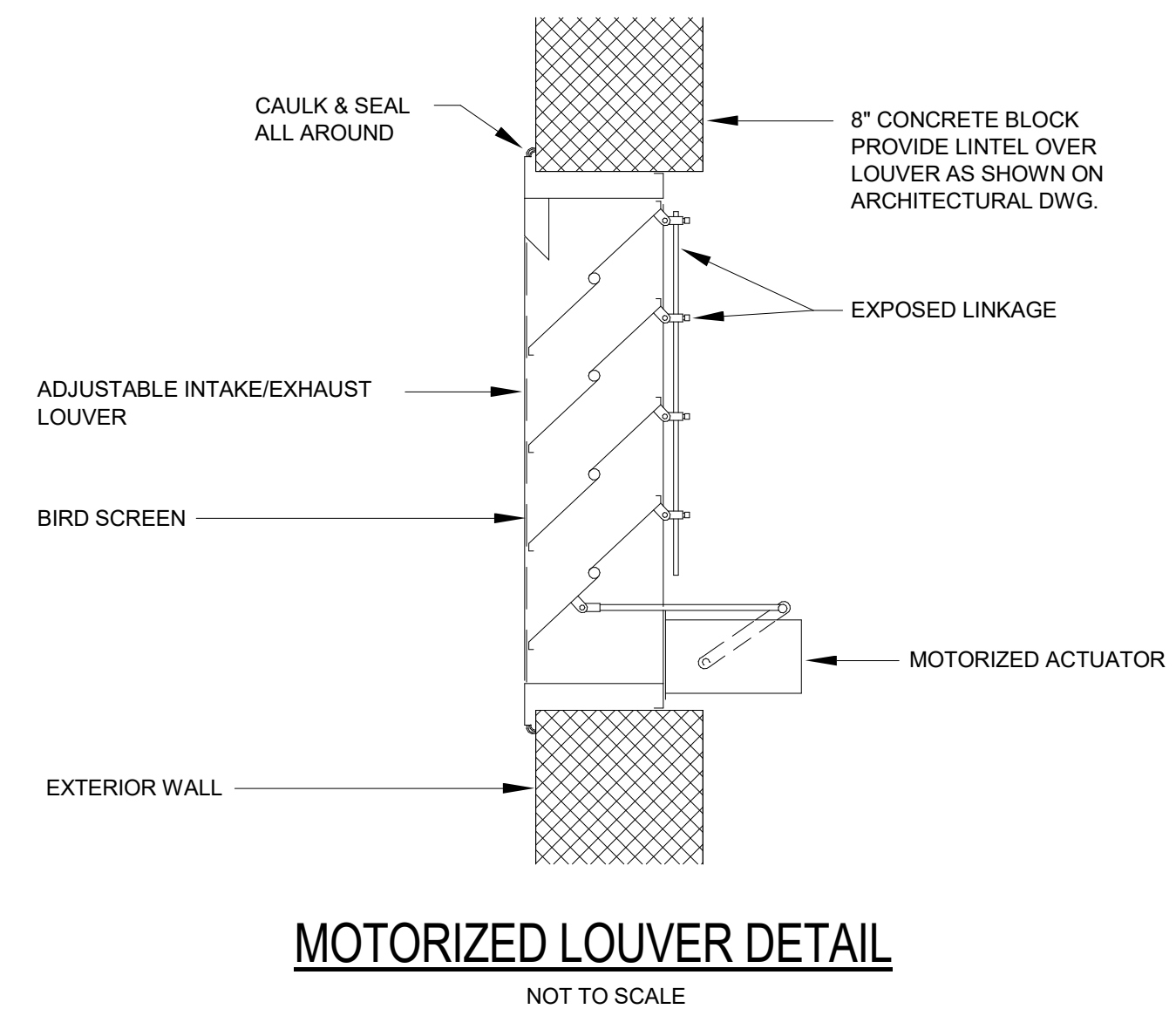
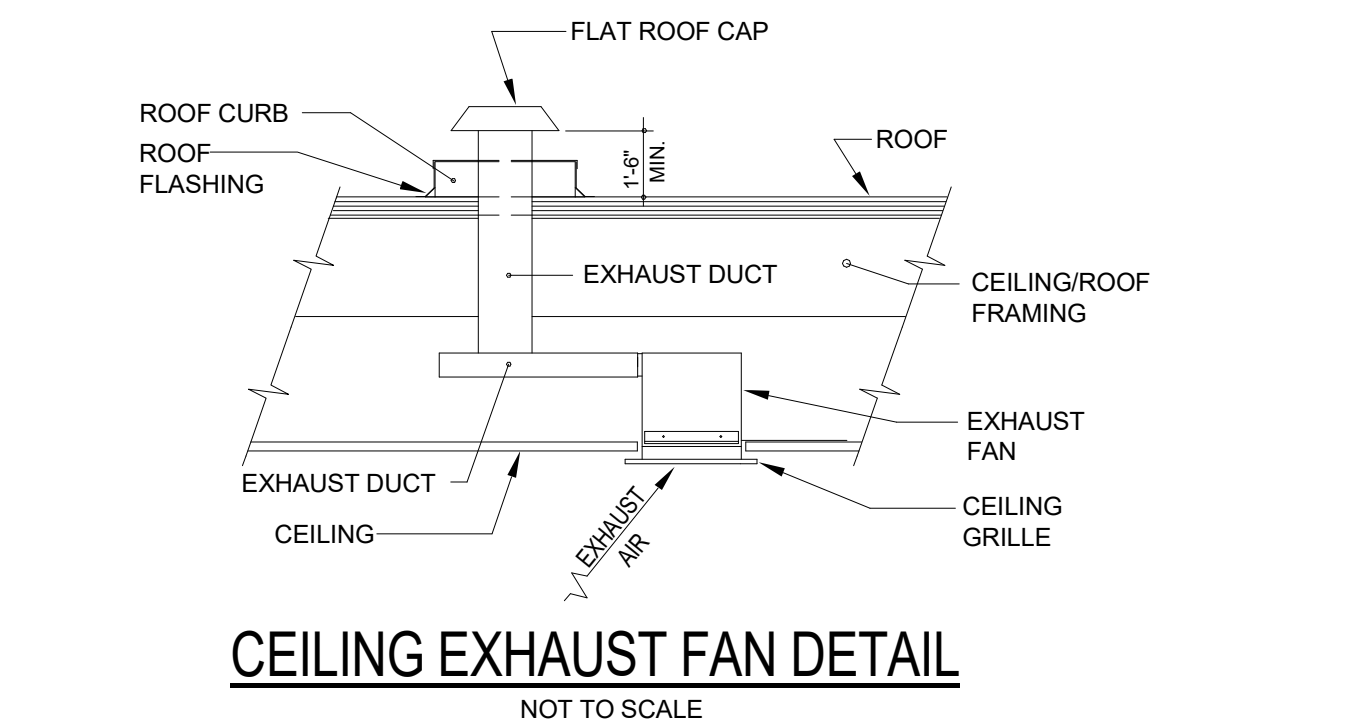
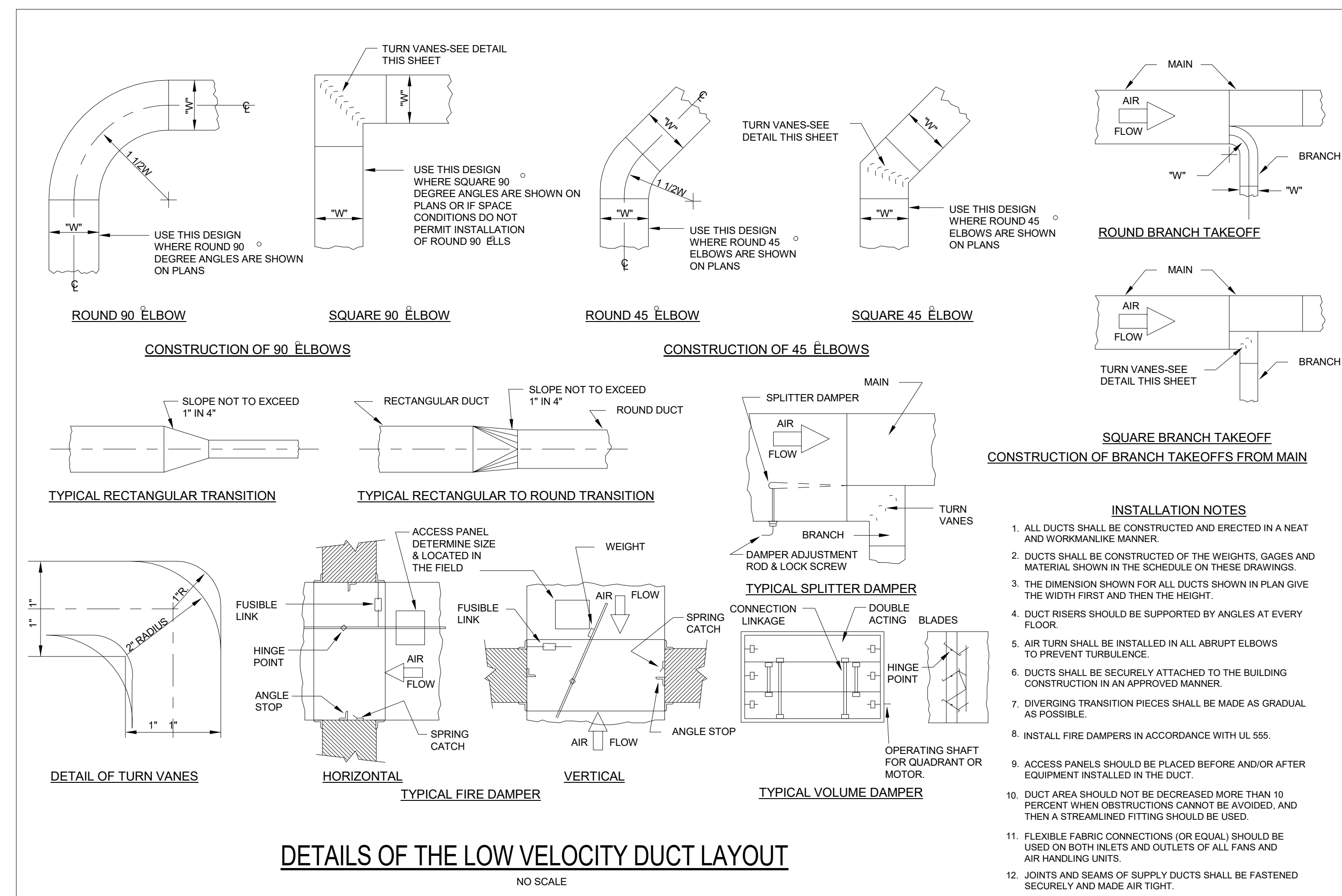
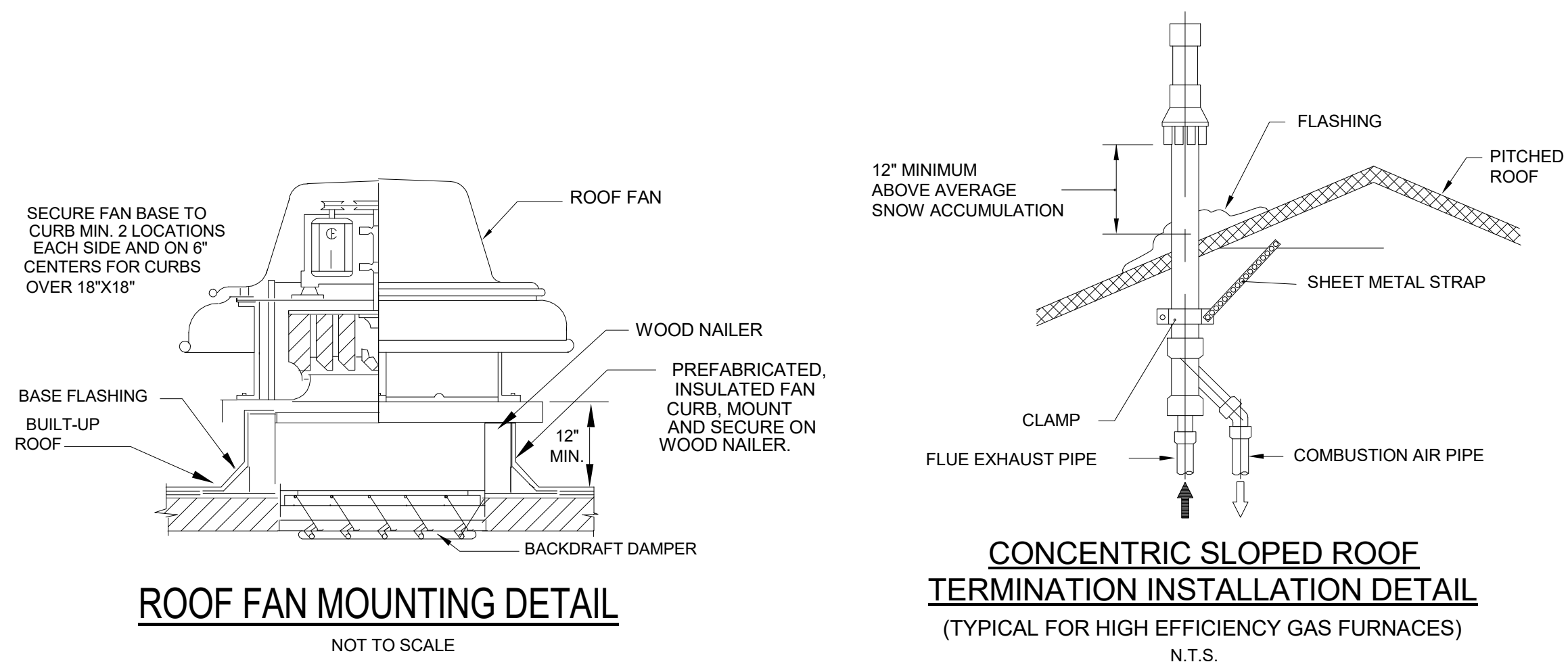
MARK	SUPPLY AIRFLOW (CFM)	SUPPLY E.S.P.	ELECTRICAL			MOTOR HP	MANUFACTURER	MODEL #	OPTIONS/ACCESSORIES
			VOLTS	PHASE	FREQUENCY				
EC-1	3600	.4	120 V	1	60 Hz	1	PHOENIX	PH6802C	NOTE-1
EC-2	3600	.4	120 V	1	60 Hz	1	PHOENIX	PH6802C	NOTE-1

- NOTES:
 1. PROVIDE THERMOSTAT, VIBRATION ISOLATION HANGERS, SEISMIC BRACING, FLEXIBLE DUCT CONNECTION, INTERLOCK TO MOTORIZED DAMPERS ON INTAKE AND EXHASUT LOUVERS.

LOUVER SCHEDULES

TYPE MARK	SERVICE	DIMENSIONS	FINISH	MANUFACTURER	MODEL #	NOTES
LV-1	INTAKE	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-1
LV-2	EXHAUST	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-2
LV-3	INTAKE	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-1
LV-4	INTAKE	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-1
LV-5	EXHAUST	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-2
LV-6	BLOCKED/NO AIR FLOW	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-3

- NOTES:
 1. PROVIDE WITH WALL FRAME COORDINATED WITH WALL ASSEMBLIES, MOTORIZED DAMPER, BIRD SCREEN, FINAL COLOR SELECTION BY OWNER/ARCHITECT.
 2. PROVIDE WITH WALL FRAME COORDINATED WITH WALL ASSEMBLIES, MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, FINAL COLOR SELECTION BY OWNER/ARCHITECT.
 3. LOUVER PROVIDED AS DECORATIVE FIXTURE. PROVIDE WITH SHEET METAL COVER ON INSIDE, INSULATION BY GC.



PLUMBING PIPE DESIGNATIONS

LINE TYPE	DESCRIPTION
140	HIGH TEMPERATURE (140°) WATER PIPE
---	COLD WATER PIPE (CW)
CA	COMPRESSED AIR
DC	DECONTAMINATION PIPING
DER	DEIONIZED WATER RETURN
DES	DEIONIZED WATER SUPPLY
DIS	DISTILLED WATER SUPPLY
DIR	DISTILLED WATER RETURN
CD	EQUIPMENT CONDENSATE DRAIN
FP	FIRE MAIN
GW	GREASE WASTE PIPE
HE	HELIUM
HPS	HIGH PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
---	HOT WATER RECIRCULATION (HWR)
---	HOT WATER PIPE (HW)
H2	HYDROGEN
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
MA	MEDICAL AIR
G	NATURAL GAS PIPE
N2	NITROGEN
N2O	NITROUS OXIDE
ORD	OVERFLOW STORM WATER PIPE
O2	OXYGEN
PG	PROPANE GAS
RD	ROOF DRAIN PIPE
---	SOIL OR WASTE PIPE
S/O	SOIL / OIL WASTE PIPE
TWR	TOWER WATER RETURN
TWS	TOWER WATER SUPPLY
VAC	VACUUM
---	VENT PIPE (V)

PLUMBING ELEMENTS / VALVING

LINE TYPE	DESCRIPTION	LINE TYPE	DESCRIPTION
	PRESSURE REDUCING VALVE (PRV)		PIPE RISING UP
	GATE VALVE		PIPE DROPPING DOWN
	GLOBE VALVE		UNION - SCREWED OR FLANGED
	PLUG VALVE		PRESSURE TRANSMITTER OR PRESSURE SWITCH
	BUTTERFLY VALVE		THERMOMETER/TEMPERATURE INDICATOR
	BALL VALVE		GAUGE WITH GAUGE COCK/PRESSURE INDICATOR
	SWING CHECK VALVE		BACKFLOW PREVENTOR (REDUCED ZONE)
	LIFT CHECK VALVE		BACKFLOW PREVENTOR (DOUBLE CHECK VALVE ASSEMBLY)
	GATE VALVE, ANGLE		WATER HAMMER ARRESTOR
	GLOBE VALVE, ANGLE		CIRCUIT SETTING
	TEMPERATURE AND PRESSURE RELIEF VALVE		HOSE BIBB
	RELIEF/SAFETY VALVE		ROOF DRAIN
	GAS COCK		FLOOR DRAIN
	GAS PRESSURE REGULATOR		AREA DRAIN
	STRAINER		FLOOR CLEAN OUT
	STRAINER WITH BLOW OFF VALVE		FLOOR SINK
	WATER HEATER		CLEAN OUT TO GRADE
	WATER METER		WALL CLEAN OUT
	PRESSURE GAGE		FLEXIBLE-CONNECTION
	TEMPERATURE GAGE		CHECK VALVE
			VACUUM BREAKER

RESPONSIBLE DIVISION:

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN PLACE AND WIRED AS FOLLOWS:

ITEM	FURNISHED	SET	POWER WIRED	CONTROL WIRED
COMBINATION MAGNETIC MOTOR STARTERS, MAGNETIC MOTOR STARTERS, VFD'S AND CONTACTORS	23	23	26	--
FUSED AND UNFUSED DISCONNECT SWITCHES, THERMAL OVERLOAD SWITCHES AND HEATERS, MANUAL MOTOR STARTERS	23(1)	26	26(2)	23
MANUAL-OPERATING AND MULTI-SPEED SWITCHES	23	26	26	26
CONTROLS, RELAYS, TRANSFORMERS	23	23	26	23
THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
THERMOSTATS (LINE VOLTAGE)	23	23	26	26
TEMPERATURE CONTROL PANELS	23	23	26	23
MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP SWITCHES	23	23(2)	--	23(2)
PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)	--	23(2)
HEATING, COOLING, VENTILATION AND AIR CONDITIONING CONTROLS	23	23	26	23
EXHAUST FAN SWITCHES	23	26	26	23(2)

SUBSCRIPT FOOTNOTES:

- MOTOR STARTER TO INCLUDE CONTROL TRANSFORMER, HOA SWITCH, (1) NO AND (1) NC AUXILIARY CONTACT, AND "ON" AND "OFF" PILOT LIGHTS.
- IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26. WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23, CONNECT UNDER DIVISION 26.

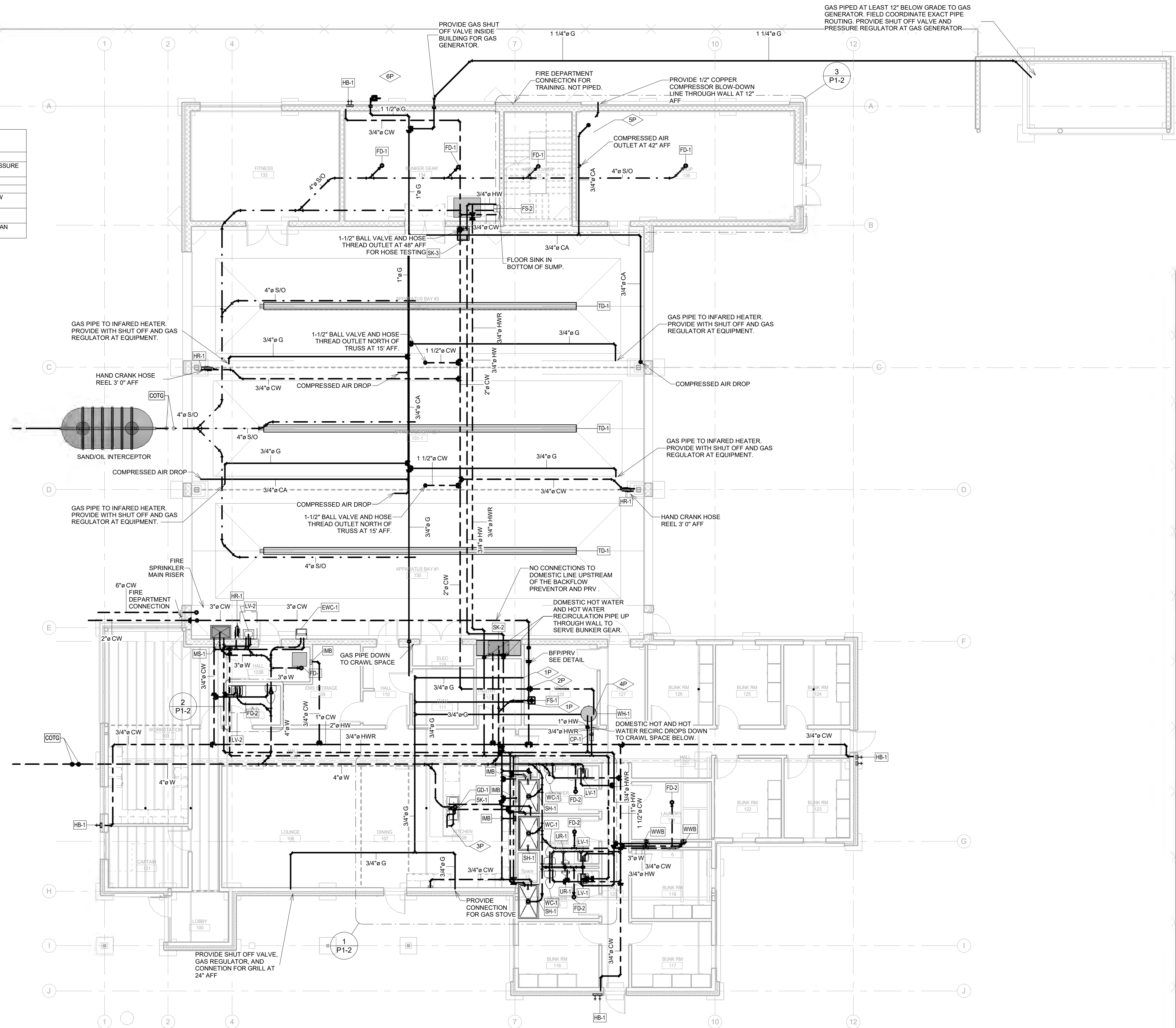
ABBREVIATIONS:

44"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE	DIFF	DIFFERENTIAL	HR	HOUR	PTAC	PACKAGED TERMINAL AIR CONDITIONER
A	AMPS	DISCH	DISCHARGE	HT	HEATER	PV	PLUG VALVE
A.D.	ACCESS DOOR	DIV	DIVISION	HTR	HEATING WATER RETURN	PVC	POLYVINYL CHLORIDE
A/V	AIR ADMITTANCE VALVE	DN	DOWN	HWS	HEATING WATER SUPPLY	QTY	QUANTITY
ABV	ABOVE	DS	DUCT SILENCER	HX	HEAT EXCHANGER	RA	RETURN AIR GRILLE / REGISTER
AC	AIR CONDITIONING UNIT	DX	DIRECT EXPANSION	HZ	HERTZ	RCP	REFLECTED CEILING PLAN
AC	ABOVE COUNTER	(A)	EXISTING	ID	INSIDE DIAMETER	RD	ROOF DRAIN
AD	AREA DRAIN (SEE SYMBOLS)	EA	EXHAUST AIR GRILLE/REGISTER	IG	ISOLATED GROUND	REL	RELIEF
A.F.C.	ABOVE FINISHED CEILING	EAT	ENTERING AIR TEMPERATURE	IN	INCHES	IN	REQUIRED
A.F.G.	ABOVE FINISHED GRADE	EC	ELECTRICAL CONTRACTOR	INV	INVERT	RF	RETURN FAN
AIC	AMPS INTERRUPTING CAPACITY	ECC	ECCENTRIC	JBOX	JUNCTION BOX	RH	RELATIVE HUMIDITY
A.F.	ABOVE FINISHED FLOOR	EF	EXHAUST FAN	K	KELVIN	RHC	REHEAT COIL
AHU	AIR HANDLING UNIT	EFF	EFFICIENCY	KW	KILOWATT	RLA	RATED LOAD AMPS
ALUM	ALUMINUM	EL	ELEVATION	KVA	KILO VOLT - AMPS	RM	ROOM
AP	ACCESS PANEL OR DOOR	ELEC	ELECTRIC	L	LENGTH	RPM	REVOLUTIONS PER MINUTE
ATS	AUTOMATIC TRANSFER SWITCH	ELEV	ELEVATOR	LAT	LEAVING AIR TEMPERATURE	SA	SUPPLY AIR GRILLE / REGISTER
AV	AUDIO / VIDEO	EM	EMERGENCY FUNCTION	LV	LAVATORY	SC	SHORT CIRCUIT
AVG	AVERAGE	ENT	ENTERING	LD	LINEAR DIFFUSER	SCA	SHORT CIRCUIT AVAILABLE
AWG	AMERICAN WIRE GAGE	EMT	ELECTRIC METALLIC TUBE	LI	LIQUOR	SCCR	SHORT CIRCUIT CURRENT RATING
BAS	BUILDING AUTOMATION SYSTEM	EO	EQUAL	LF	LINEAR FEET	SCH	SCHEDULE
BB	BASEBOARD	EQUIP	EQUIPMENT	LIN	LINEAR	SD	SMOKE DAMPER
BD	BACK DRAFT DAMPER	EQUIV	EQUIVALENT	LQ	LIQUID	SEF	SMOKE EXHAUST FAN
BFP	BACK FLOW PREVENTOR	ES	END SWITCH	LM	LUMEN	SF	SUPPLY FAN
BL	BOILER	ESP	EXTERNAL STATIC PRESSURE	LRA	LOCKED ROTOR AMPS	SH	SENSIBLE HEAT SHOWER
BLDG	BUILDING	ET	EXPANSION TANK	LTV	LEAVING WATER TEMPERATURE	SP	STATIC PRESSURE
BLW	BELOW	EWC	ELECTRIC WATER COOLER	LWG	LEAVING	SPD	SURGE PROTECTION DEVICE
BOB	BOTTOM OF BEAM	EWT	ENTERING WATER TEMPERATURE	MBH	THOUSANDS OF BTU PER HOUR	SPEC	SPECIFICATION
BOD	BOTTOM OF DUCT	EX	EXHAUST	MCA	MINIMUM CIRCUIT AMPACITY	SQ	SQUARE
BOP	BOTTOM OF PIPE	EXPN	EXPANSION	MCB	MAIN CIRCUIT BREAKER	SS	STAINLESS STEEL
BSMT	BASEMENT	EXT	EXTERNAL	MD	MOTORIZED DAMPER	SS	SAFETY SHOWER
BTU	BRITISH THERMAL UNIT	F	DEGREES FAHRENHEIT	MD	MOTORIZED DAMPER	STD	STANDARD
C	CHILLER	FA	FREE AREA	MOP	MAIN DISTRIBUTION PANEL	STL	STEEL
CAP	CAPACITY	FC	FAN COIL UNIT	MED	MEDIUM	SYS	SYSTEM
CB	CIRCUIT BREAKER	FCV	FLOW CONTROL VALVE	MFR	MANUFACTURER	TEMP	TEMPERATURE
CBV	CIRCUIT BALANCING VALVE	FD	FIRE DAMPER	MIN	MINIMUM	TR	TRANSFER GRILLE / REGISTER
CCT	CORRELATED COLOR TEMPERATURE	FD	FLOOR DRAIN	MISC	MISCELLANEOUS	TR	TAMPER RESISTANT
OKT	CIRCUIT	FIN	FINISHED	MLO	MAIN LUG ONLY	TT	TEMPERATURE TRANSMITTER
CFH	CUBIC FEET PER HOUR	FLA	FULL LOAD AMPS	MOC	MAXIMUM OVERCURRENT PROTECTION	TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
CFM	CUBIC FEET PER MINUTE	FLEX	FLEXIBLE	MTD	MOUNTED	TX	TRANSFORMER
CHWR	CHILLED WATER RETURN	FLR	FLOOR	MUA	MAKE-UP AIR UNIT	UC	UNDERCUT DOOR
CHWS	CHILLED WATER SUPPLY	FOB	FLAT ON BOTTOM	N	NEUTRAL	UH	UNIT HEATER
CI	CAST IRON	FOT	FLAT ON TOP	NC	NORMALLY CLOSED	UNO	UNLESS NOTED OTHERWISE UNOCCUPIED
CL	CENTER LINE	FP	FIRE PROTECTION	NEG	NEGATIVE	UR	URINAL
CLG	CEILING	FPM	FEET PER MINUTE	NIC	NOT IN CONTRACT	V	VOLTS
CMU	CONCRETE MASONRY UNIT	FPS	FEET PER SECOND	NL	NIGHT / SECURITY LIGHT - DO NOT SWITCH	VA	VOLT AMPERE
CO	CLEAN OUT	FS	FLOW SWITCH	NOM	NOMINAL	VA	VALVE
COL	COLUMN	FSD	FIRE/SMOKE DAMPER	NTS	NOT TO SCALE	VAV	VARIABLE AIR VOLUME UNIT
COMP	COMPRESSOR	FT	FEET	OA	OUTSIDE AIR	VFD	VARIABLE FREQUENCY DRIVE
CONC	CONCRETE	GND	GROUND	OB	OPPOSED BLADE DAMPER	VRF	VARIABLE REFRIGERANT FLOW
COND	CONDENSATE	GA	GAUGE	OC	ON CENTER	V	VOLTAGE
CONN	CONNECTION	GAL	GALLON	OCC	OCCUPIED	VTR	VENT THROUGH ROOF
CONT	CONTINUATION	GALV	GALVANIZED	OCP	OVER CURRENT PROTECTION	W	WIDTH
CONTR	CONTRACTOR	GEC	GROUND ELECTRODE CONDUCTOR	OD	OUTSIDE DIAMETER	W	WATTS
CRI	COLOR RENDERING INDEX	GFCI	GFI GROUND FAULT CIRCUIT INTERRUPTER	ORD	OVERFLOW ROOF DRAIN	W	WITH
CT	COOLING TOWER	GC	GENERAL CONTRACTOR	OZ	OUNCE	WO	WITHOUT
CU	CURRENT TRANSFORMER	GPH	GALLONS PER HOUR	PAR	PARALLEL BLADE DAMPER	WB	WET BULB
CJ	CONDENSING UNIT	GPM	GALLONS PER MINUTE	PD	PRESSURE DROP	WC	WATER COLUMN
CJ	COPPER	GRSLB	GRAINS PER POUND	PH	PHASE	WG	WATER GAUGE
CUH	CABINET UNIT HEATER	H2O	WATER	POS	POSITIVE PRESSURE	WP	WEATHERPROOF
CVB	CONSTANT VOLUME BOX	POS	POINT OF SALE	PRV	PRESSURE REDUCING VALVE	WSP	WEATHERPROOF IN-USE
CWR	CONDENSER WATER RETURN	HP	HEAD (SEE SCHEDULES)	PS	PRESSURE SWITCH	WSR	WITHSTAND RATING
CWS	CONDENSER WATER SUPPLY	HP	HEAD (SEE SCHEDULES)	PT	PRESSURE TRANSMITTER	XFMR	TRANSFORMER
DB	DRY BULB	HP	HEAD (SEE SCHEDULES)				
DEPT	DEPARTMENT	HP	HEAD (SEE SCHEDULES)				
DF	DRINKING FOUNTAIN	HP	HEAD (SEE SCHEDULES)				
DIA	DIAMETER	HP	HEAD (SEE SCHEDULES)				
DIA	DIAMETER	HP	HEAD (SEE SCHEDULES)				
DIAG	DIAGRAM	HP	HEAD (SEE SCHEDULES)				

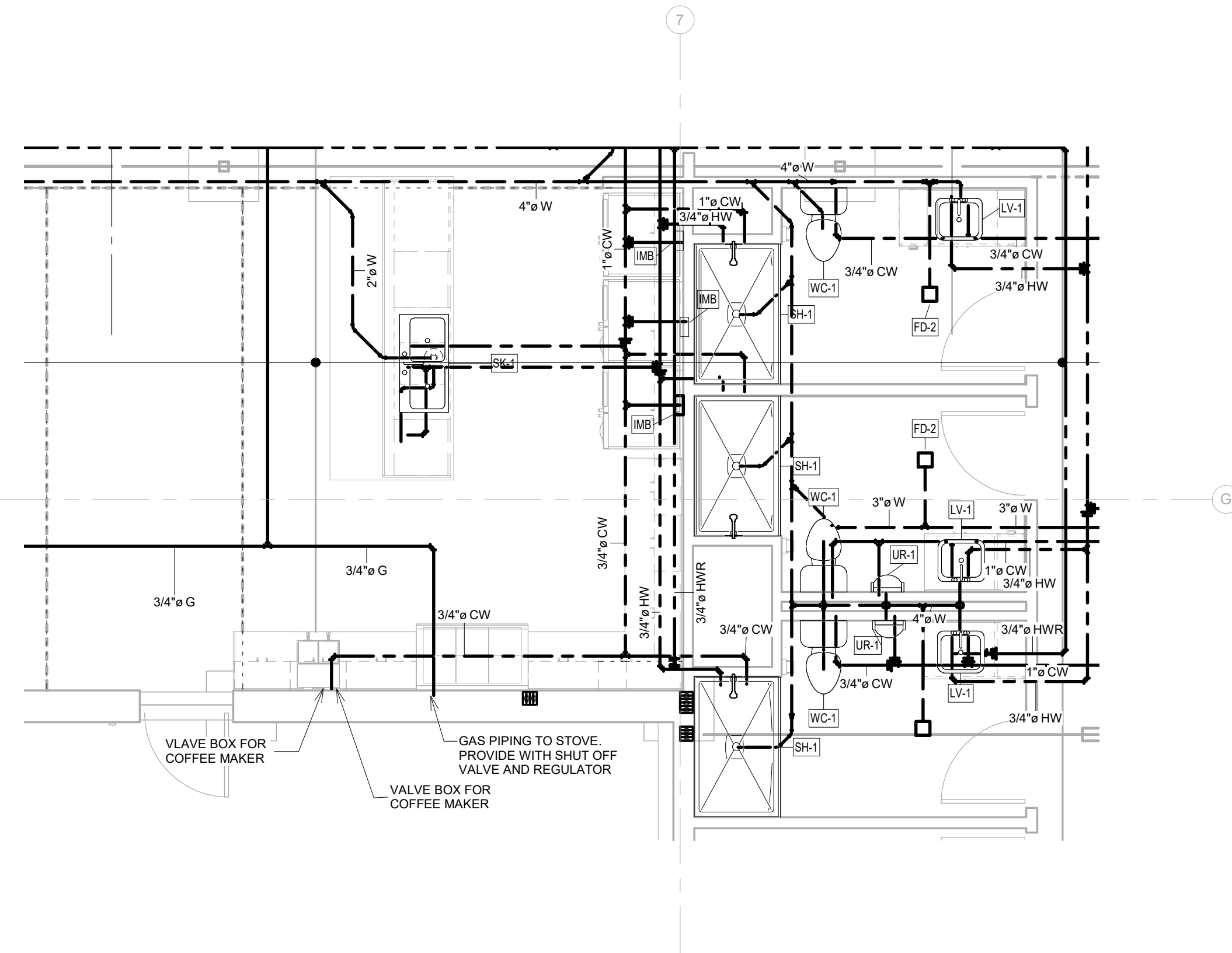
PLUMBING SHEET LIST

Sheet Number	Sheet Name
P0-1	PLUMBING COVER SHEET
P1-1	PLUMBING - FLOOR PLAN
P1-2	PLUMBING - ENLARGED FLOOR PLAN
P3-1	PLUMBING SCHEDULES
P3-2	PLUMBING DETAILS

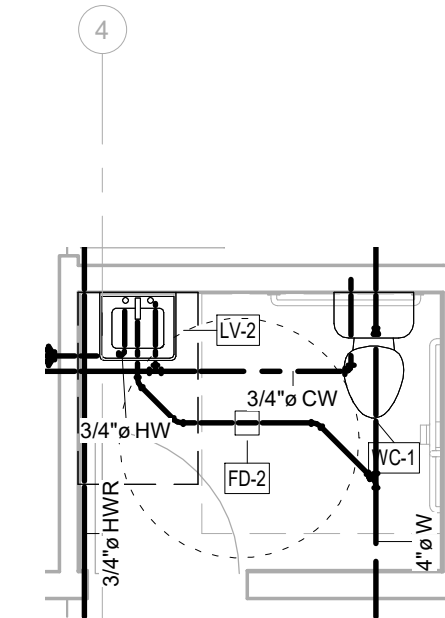
Note Number	Note Text
1P	GAS PIPE UP FROM CRAWL SPACE TO GAS FURNACE. PROVIDE WITH SHUT OFF VALVE AND MEDIUM TO LOW PRESSURE REGULATOR
2P	DOMESTIC COLD WATER PIPE UP THROUGH MECHANICAL ROOM TO SERVE VEHICLE BAYS
3P	DOMESTIC HOT WATER AND SANITARY WASTE PIPES TO SERVE DISHWASHER
4P	GAS PIPE UP FROM CRAWL SPACE TO GAS WATER HEATER. PROVIDE WITH SHUT OFF VALVE AND MEDIUM TO LOW PRESSURE REGULATOR
5P	PROVIDE WITH QUINCY MODEL QP-5 80 GALLON/5HP AIR COMPRESSOR. COORDINATE POWER WITH ELECTRICAL CONTRACTOR. 230V/3PH MOTOR.
6P	GAS METER LOCATION. GAS METER SIZED FOR MEDIUM PRESSURE. APPROXIMATE LONGEST LENGTH IS 165' WITH AN ESTIMATED TOTAL CONNECTED LOAD OF 3248 CFH. FIELD COORDINATE EXACT LOCATION OF METER.



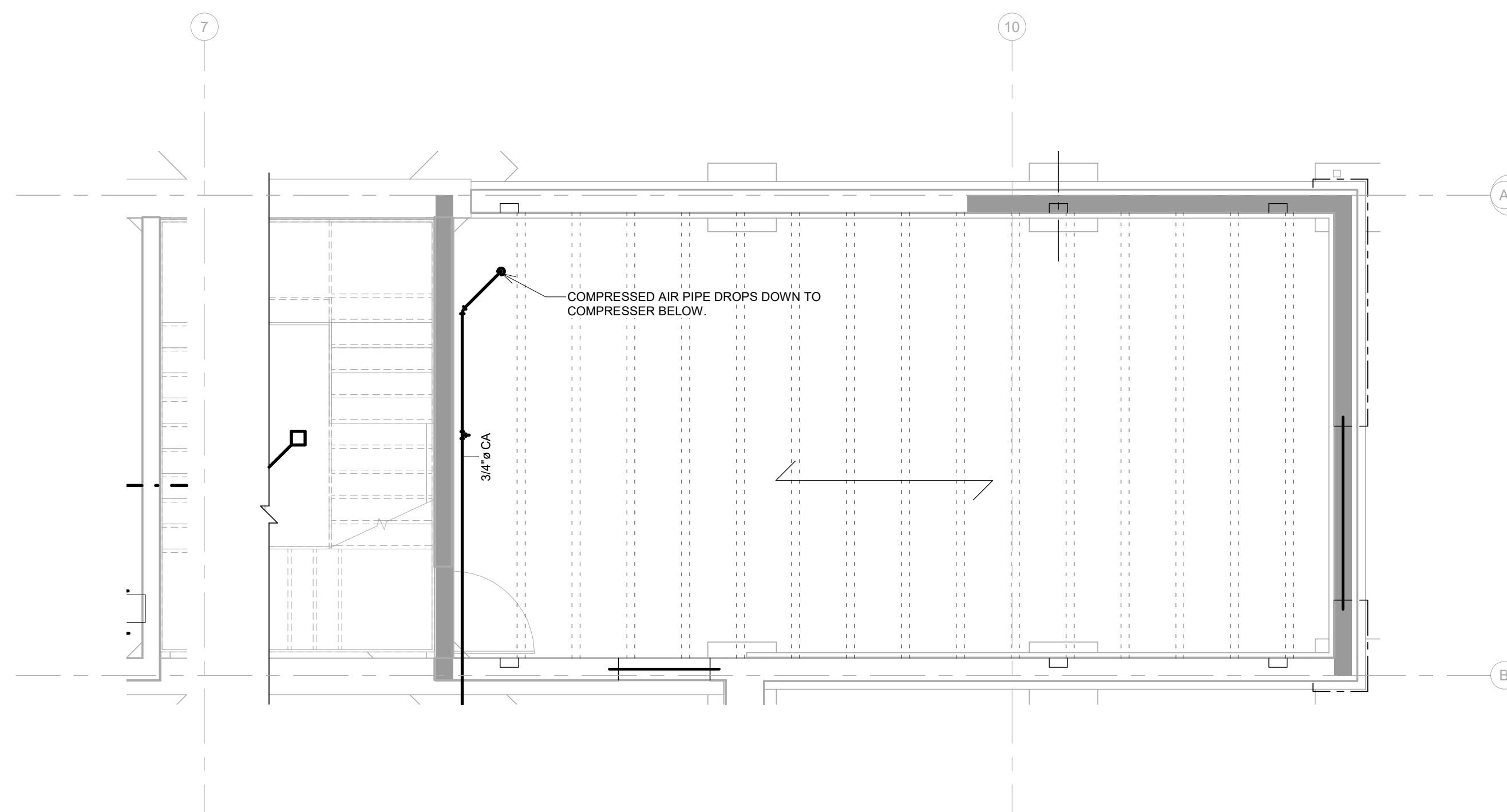
PLUMBING - FLOOR PLAN
1/8" = 1'-0"



1
P1-2
1/4" = 1'-0"
PLUMBING - ENLARGED KITCHEN FLOOR PLAN



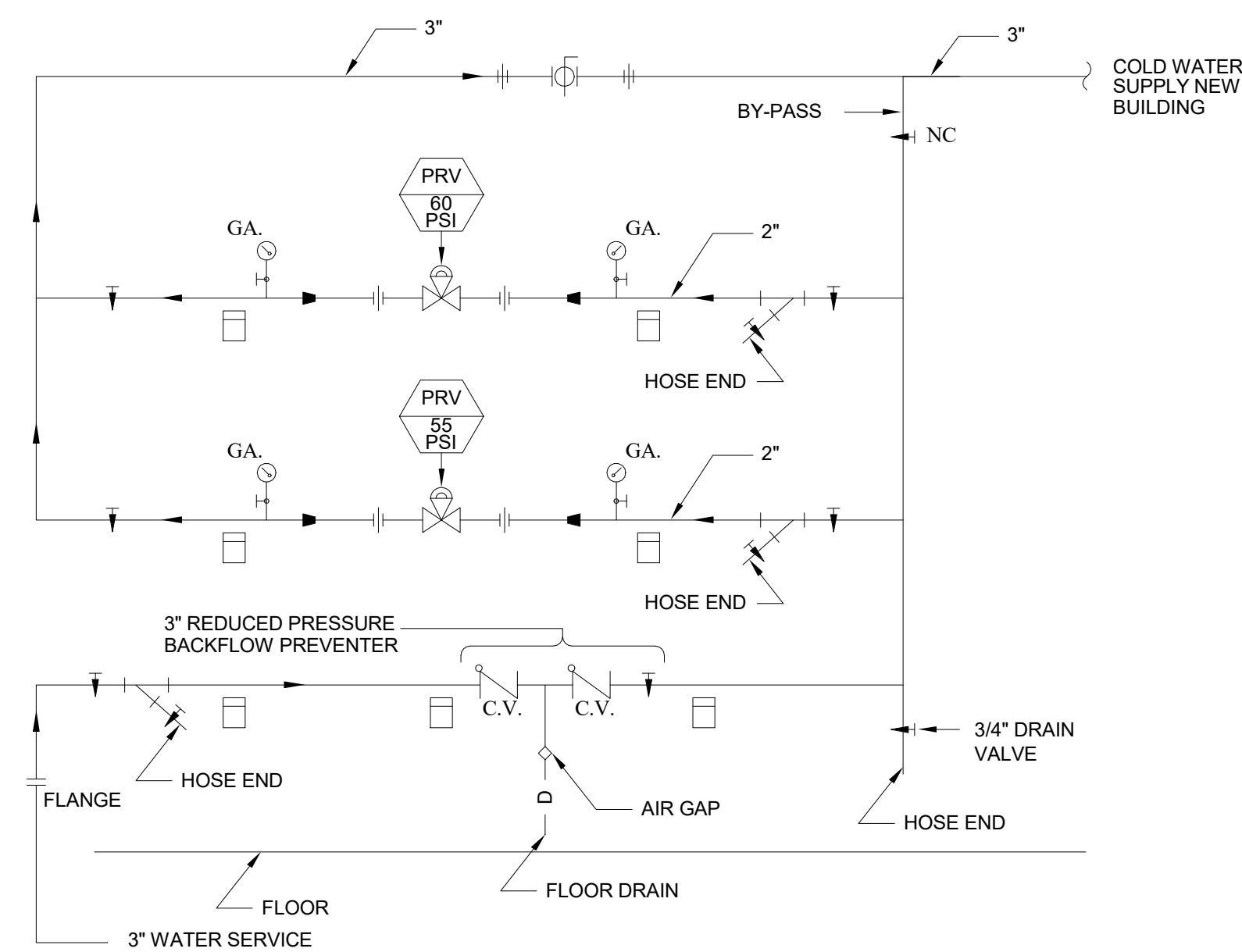
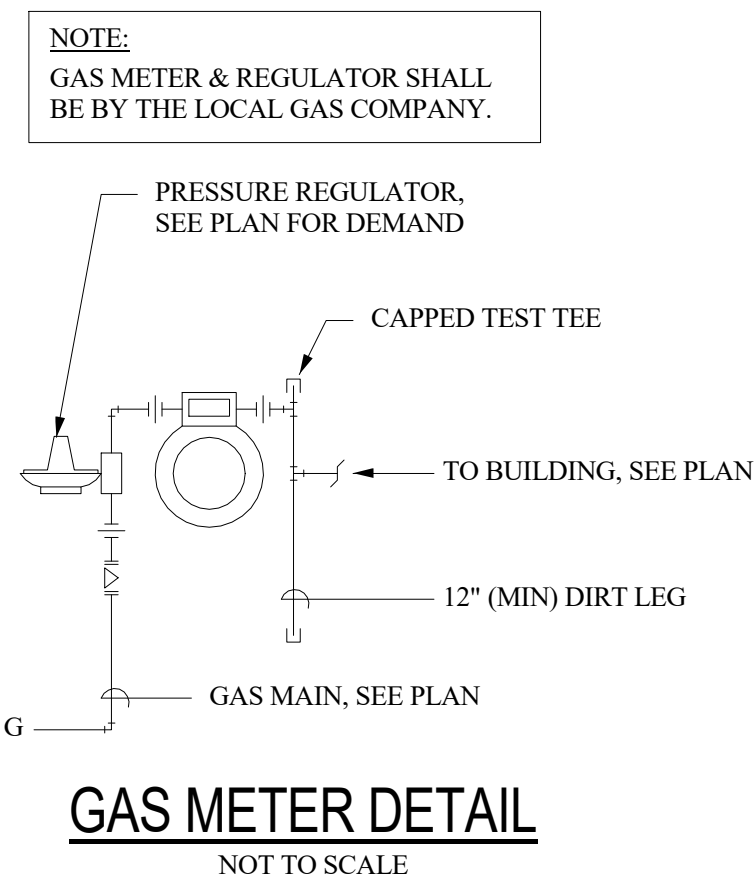
2
P1-2
1/4" = 1'-0"
PLUMBING - ENLARGED RESTROOM FLOOR PLAN



3
P1-2
1/4" = 1'-0"
PLUMBING - FLOOR PLAN - STAIR/MEZZANINE

PLUMBING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL #	TRIM	PIPE CONNECTIONS				OPTIONS/ ACCESSORIES
					S/W	VENT	CW	HW	
EWC-1	ELECTRIC WATER COOLER W/ BOTTLE FILLER	ELKAY	EMABFWSSK	STAINLESS STEEL	1 1/4"	1/2"	-	-	PROVIDE WITH HANDS-FREE BOTTLE FILLER, GREEN TICKER, LAMINAR FLOW, WALL MOUNTED ANTIMICROBIAL DRAIN, COOLER, AND MECHANICAL FRONT AND SIDE PUSHBARS
FD-1	FLOOR DRAIN	ZURN	Z415B	NICKEL BRONZE GRID	3"	2"	-	-	
FD-2	FLOOR DRAIN	ZURN	Z415S	NICKEL BRONZE GRID	3"	2"	-	-	
FS-1	FLOOR SINK	ZURN	Z1900	CAST IRON BODY	3"	2"	-	-	PROVIDE WITH 1/2 GRATE OPENING.
FS-2	FLOOR SINK	ZURN	Z1900	CAST IRON BODY	3"	2"	-	-	PROVIDE WITH FULL GRATE, QUAD CLOSE MECHANICAL TRAP SEAL, NO P-TRAP.
GD-1	GARBAGE DISPOSAL	INSINKERATOR	PRO 880LT	-	1 1/2"	-	-	-	7/8 HP MOTOR, 120V/1PH/60HZ, PROVIDE WITH SOUND SEAL, MULTIGRIND, AND AUTO-REVERSE GRIND SYSTEM
HB-1	EXTERIOR HOSE BIB	WOODFORD	B67	-	-	-	3/4"	-	PROVIDE WITH LOCKING COVER, AND FREEZEPROOF ASSEMBLY
HR-1	DOMESTIC WATER HOSE REEL	COXREELS	SLP-5100	-	-	-	3/4"	-	
IMB	ICE MAKER BOX	OATEY	ICE MAKER BOX	-	-	-	3/4"	-	
LV-1	UNDERMOUNT BATHROOM SINK	AMERICAN STANDARD	0614.000	PROVIDE WITH AMERICAN STANDARD FAUCET #2064.131	1 1/2"	1 1/2"	3/4"	3/4"	SINK TO BE WHITE VITREOUS CHINA, VERIFY COLOR WITH ARCHITECT/OWNER
LV-2	WALL MOUNT BATHROOM SINK	AMERICAN STANDARD	0955.001EC	PROVIDE WITH SLOAN FAUCET #EAF-250-BAT-0.5GPM-AER-IR-IQFCT	1 1/2"	1 1/2"	3/4"	3/4"	
MS-1	MOP SINK	FLORESTONE	MSR-3624	PROVIDE WITH ZURN FAUCET #Z842M1-XL WITH WALL BRACING	3"	2"	3/4"	3/4"	PROVIDE WITH STAINLESS STEEL GRID DRAIN
SH-1	SHOWER ENCLOSURE	EVERYDAY SHOWERS	1603SGM	PROVIDE WITH DELTA SHOWER FIXTURE #T13220H20	3"	1 1/2"	3/4"	3/4"	PROVIDE WITH MOLDED TOILETRY SHELVES, SLIP RESISTANT TEXTURED BOTTOM, CENTER DRAIN, PROFLO SHOWER DRAIN PF101PNC AND DELTA R10000UNWS MIXING VALVE.
SK-1	TWO BASIN KITCHEN SINK	INTEGRA DRAIN	UND-1842-1	PROVIDE WITH DELTA FAUCET #9113-DST	1 1/2"	1 1/2"	3/4"	3/4"	STAINLESS STEEL SINK WITH DELTA SOAP DISPENSER, # RP100736, GARBAGE DISPOSAL
SK-2	SCULLERY SINK	ELKAY	WNSF8130LR	PROVIDE WITH T&S FAUCET #B-2187	1 1/2"	1 1/2"	3/4"	3/4"	PROVIDE WITH PROFLOE PF250 BASKET STRAINER, P-TRAP.
SK-3	UTILITY SINK	ELKAY	14-1C10X29-0X	PROVIDE WITH T&S FAUCET #B-1147-04-CR	1 1/2"	1 1/2"	3/4"	3/4"	PROVIDE WITH PROFLOE PF250 BASKET STRAINER, P-TRAP.
TD-1	TRAFFIC RATED TRENCH DRAIN	ZURN	ZZ896DGE	DUCTILE IRON SLOTTED GRATE-TRAFFIC RATED	4"	2"	-	-	PROVIDE WITH 4" HUB THROAT CONNECTION, HEAVY DUTY FRAME, CLOSET END CAPS, ESTIMATED LENGTH IS 48" CONTRACTOR TO VERIFY PRIOR TO ORDERING
UR-1	WALL MOUNT URINAL	AMERICAN STANDARD	6590.001	PROVIDE WITH SLOAN #186.05 DFB FLUSH VALVE.	2"	1 1/2"	1 1/4"	-	PROVIDE WITH WALL MOUNT KIT
WC-1	ADA RIGHT HEIGHT TANK TYPE TOILET	AMERICAN STANDARD	5395A.001	-	3"	2"	3/4"	-	1.28 GPF SYSTEM, WATER HAMMER ARRESTOR, WATERSENSE RATED
WWB	WASHER WALL BOX	OATEY	WASHER WALL BOX	-	1 1/2"	1 1/2"	3/4"	3/4"	



CIRCULATION PUMP SCHEDULE

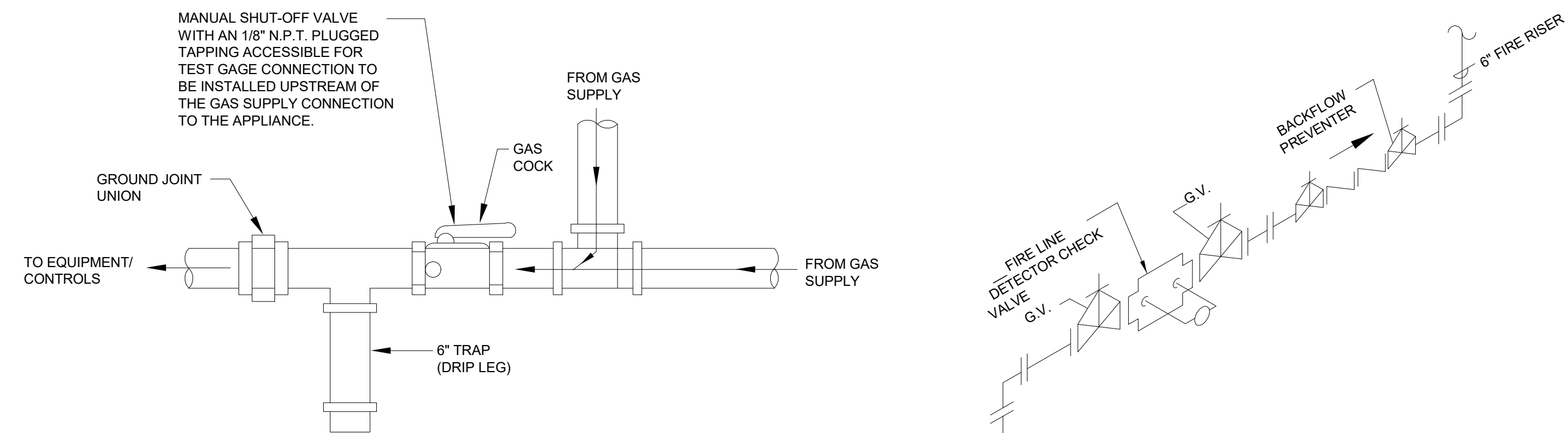
Type Mark	SERVICE	LOCATION	FLUID FLOW RATE	HEAD PRESSURE	MOTOR POWER	RPM	VOLTS	PHASE	FREQUENCY	FLA (A)	MANUFACTURER	MODEL #	NOTES
CP-1	WH-1	MECHANICAL ROOM	11.5	9.5	1/40 HP	3250	120 V	1	60 Hz	1	TACO	006	NOTE-1

NOTES:
1. PROVIDE WITH DIRECT DRIVE MOTOR, TIMER, INTEGRAL FLOW CHECK, POWER DISCONNECT. PUMP TO BE RATED FOR DOMESTIC USE.

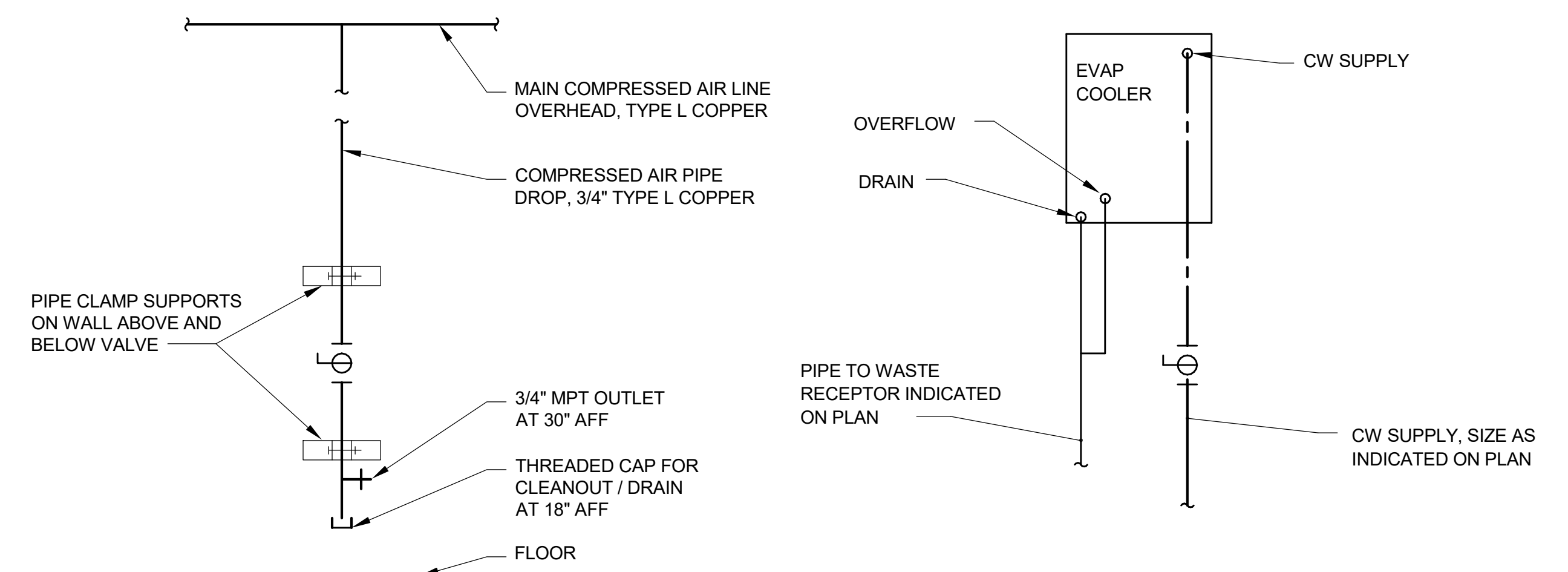
GAS FIRED TANK WATER HEATER SCHEDULE

TYPE MARK	TANK SIZE	RECOVERY 90 DEG. F RISE	BTU/HR	GAS PIPE CONNECTION SIZE	DOMESTIC CW PIPE CONNECTION SIZE	MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
WH-1	100	196	150000	3/4"	1 1/2"	BRADFORD WHITE	EF-100T-150E-EN	NOTE-1

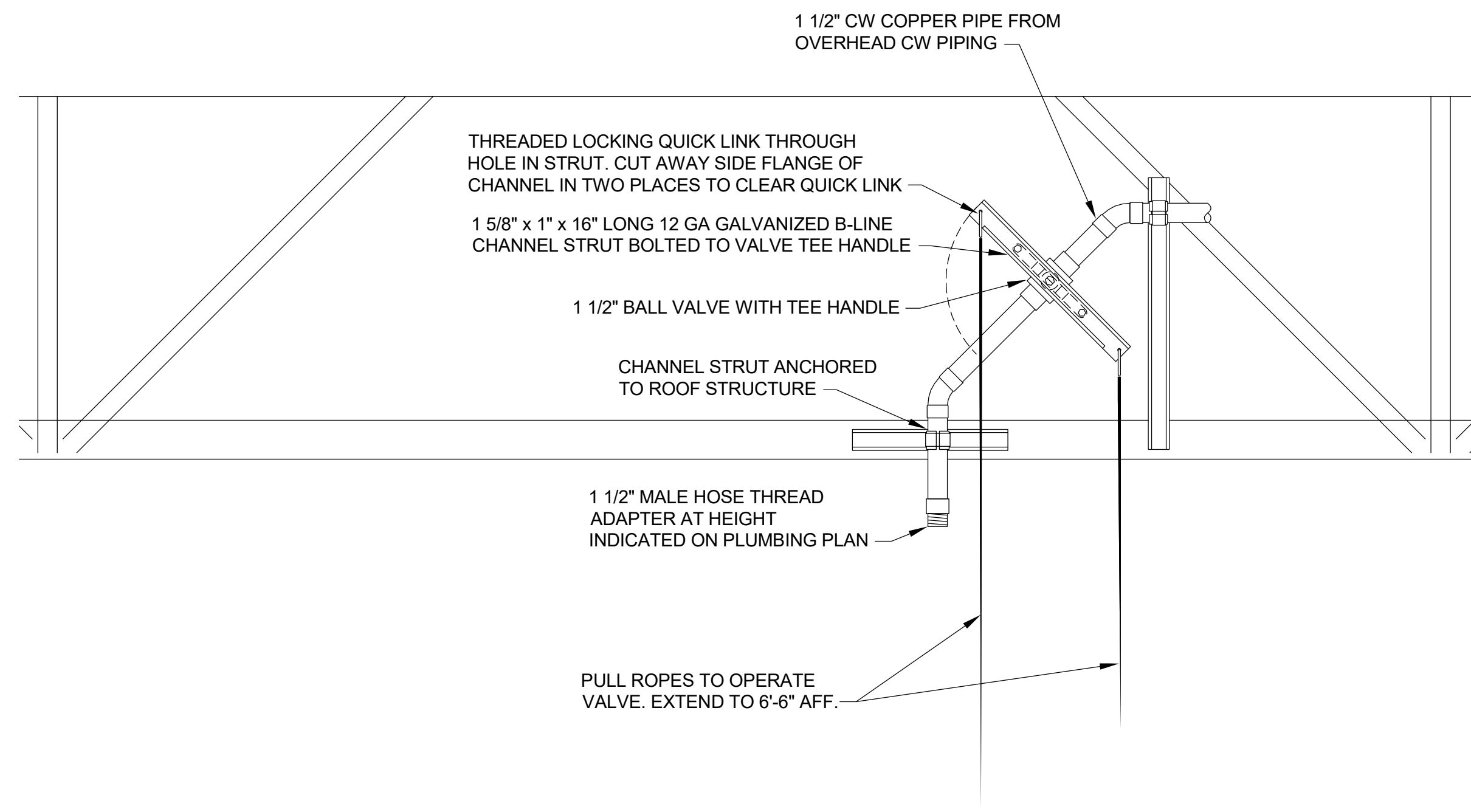
NOTES:
1. PROVIDE WITH ASME RELIEF VALVE, EXPANSION TANK, HIGH ALTITUDE KIT SIZED PER ELEVATION, CONCENTRIC VENT TERMINATION KIT, THERMOSTAT, AND CONTROLS FOR RECIRCULATION PUMP.

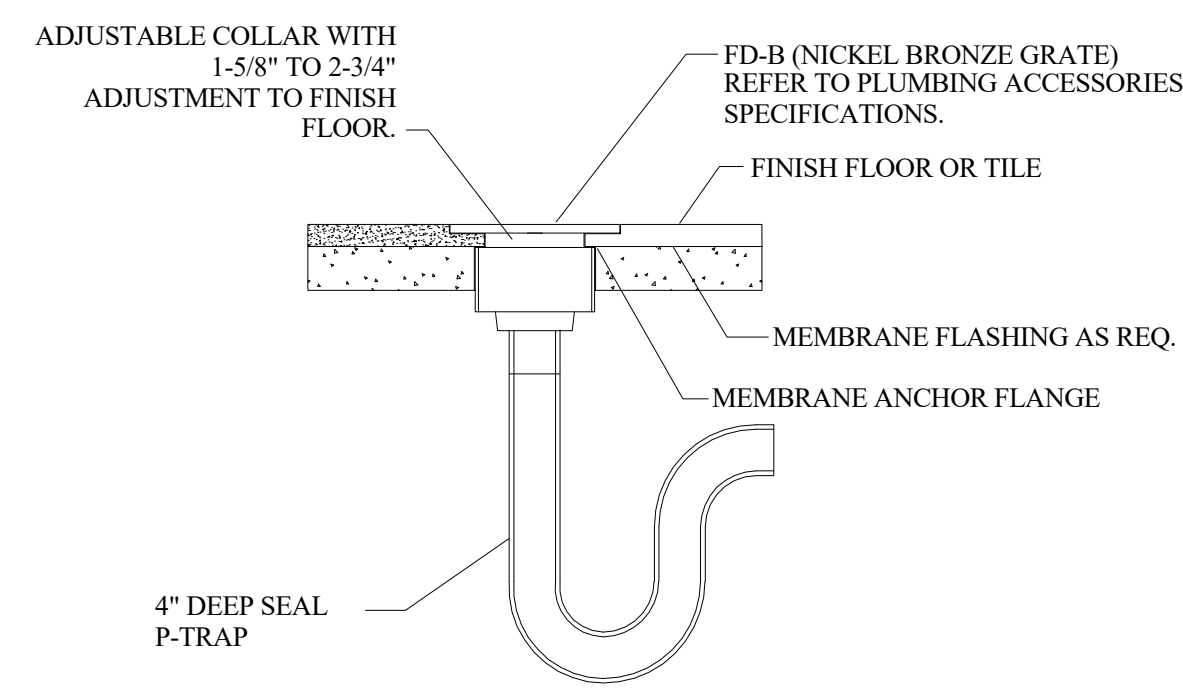
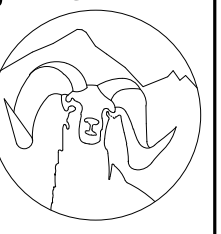


FIRE WATER INCOMING SERVICE RISER
NOT TO SCALE

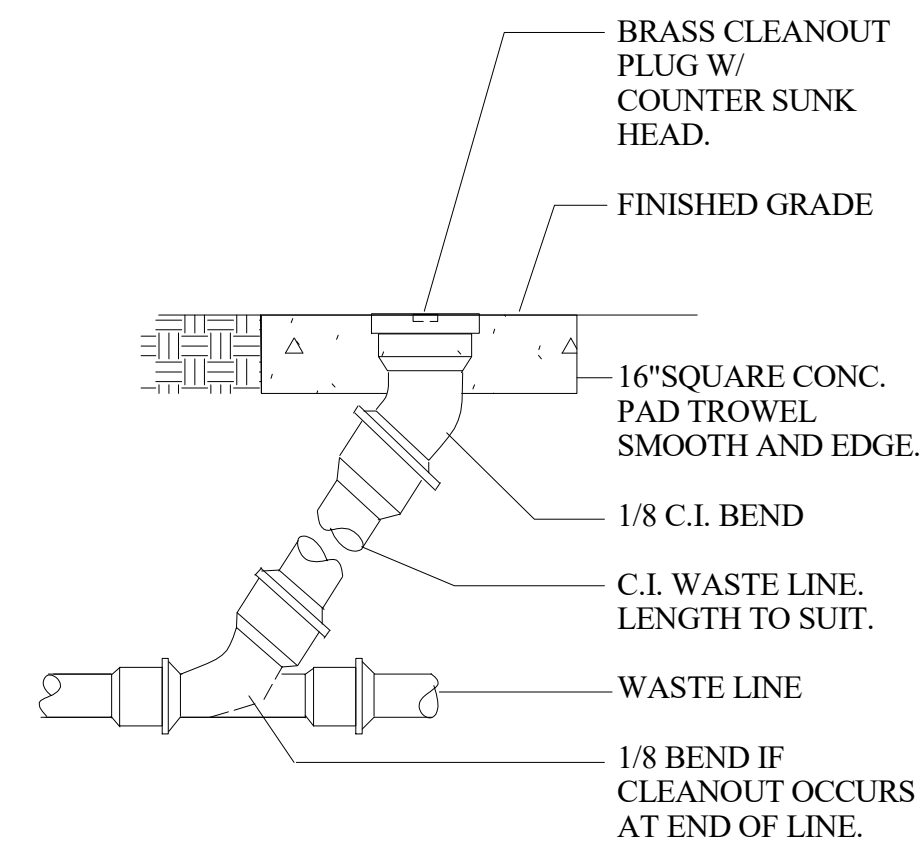


COMPRESSED AIR DROP DETAIL
NO SCALE

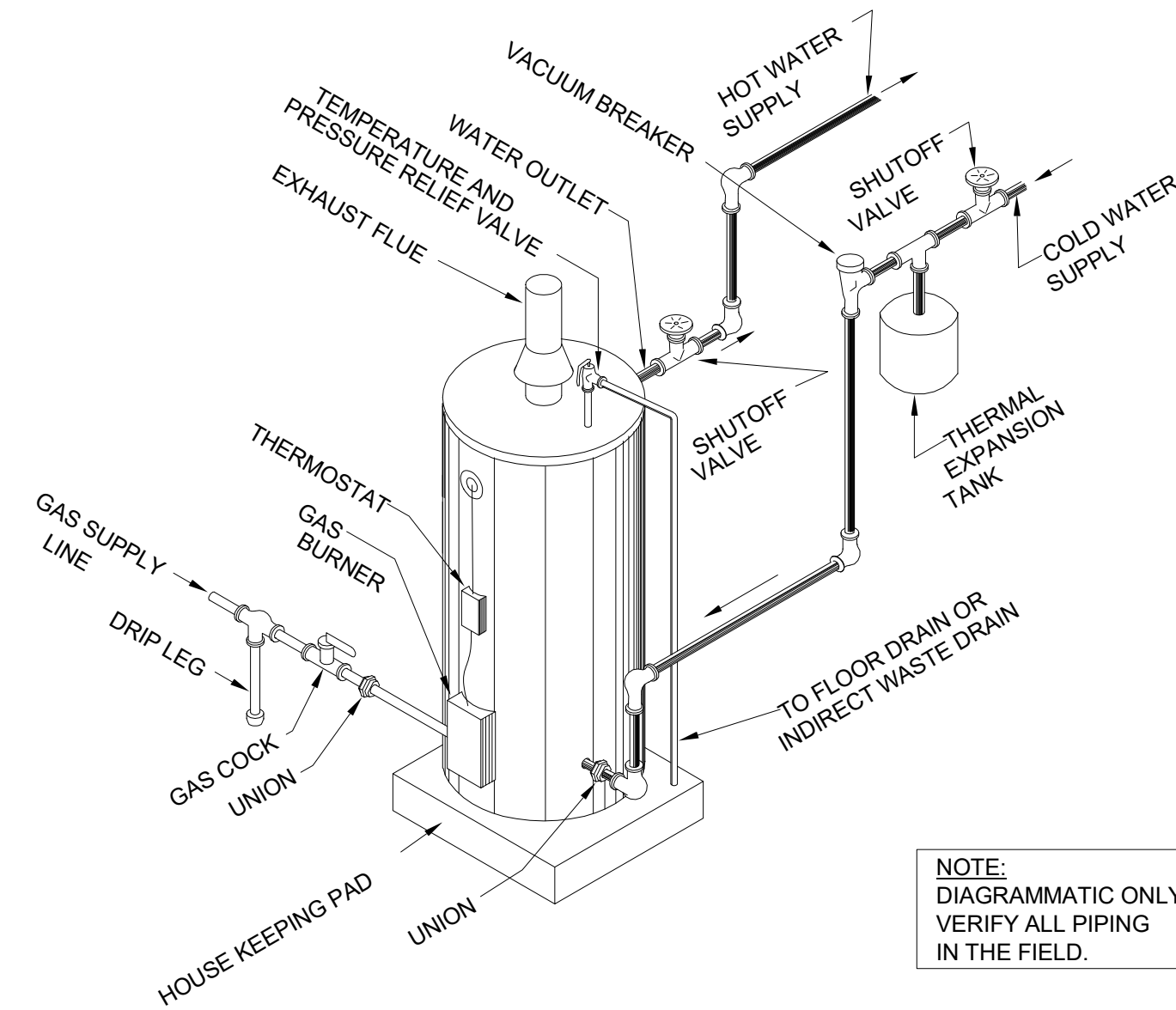




MECHANICAL AREA FLOOR DRAIN
NOT TO SCALE



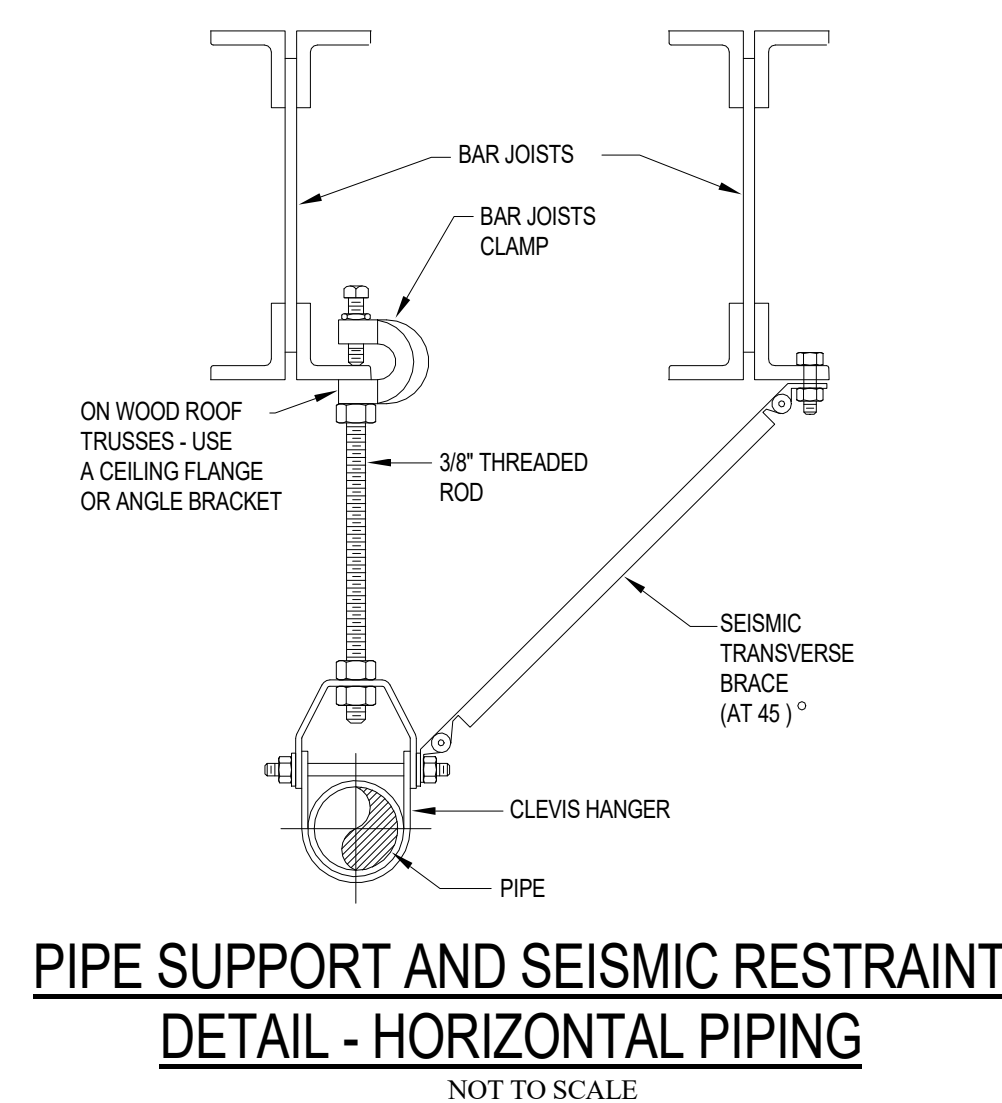
CLEANOUT TO GRADE
NOT TO SCALE



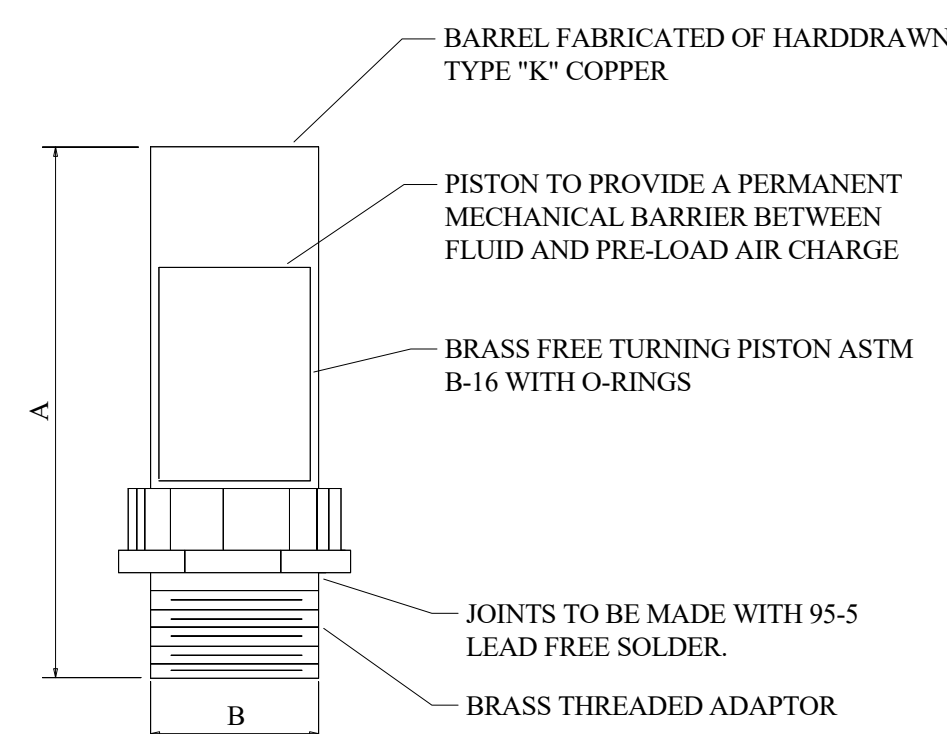
GAS FIRED WATER HEATER DETAIL
NOT TO SCALE

NOTE:
DIAGRAMMATIC ONLY.
VERIFY ALL PIPING
IN THE FIELD.

NOTE:
PROVIDE SEISMIC RESTRAINTS FOR PIPING AS FOLLOWS:
- 1" & 1-1/2" PIPES: 20 FT. ON CENTER
- 2" & 2-1/2" PIPES: 30 FT. ON CENTER
- 3", 4" & 6" PIPES: 40 FT. ON CENTER



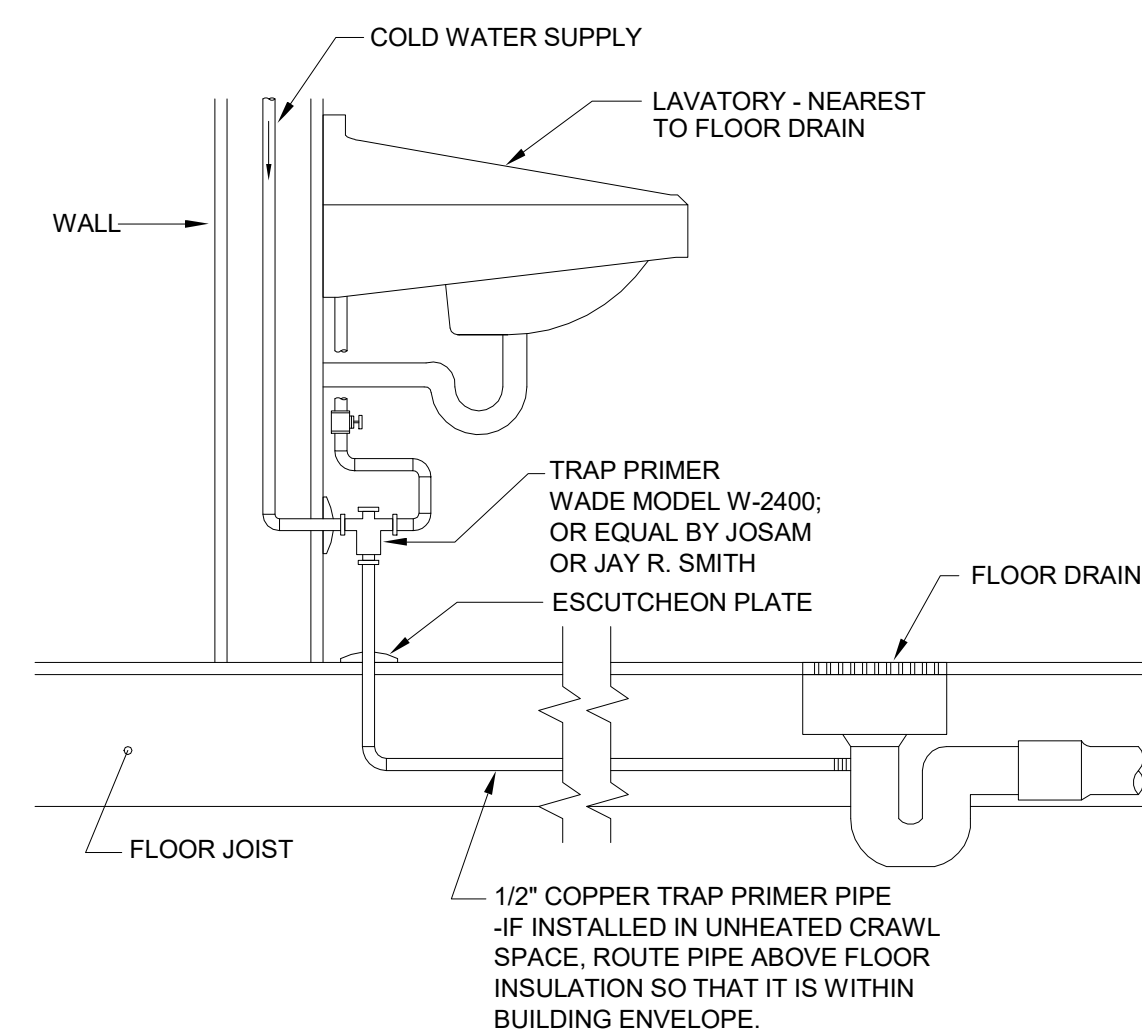
**PIPE SUPPORT AND SEISMIC RESTRAINT
DETAIL - HORIZONTAL PIPING**
NOT TO SCALE



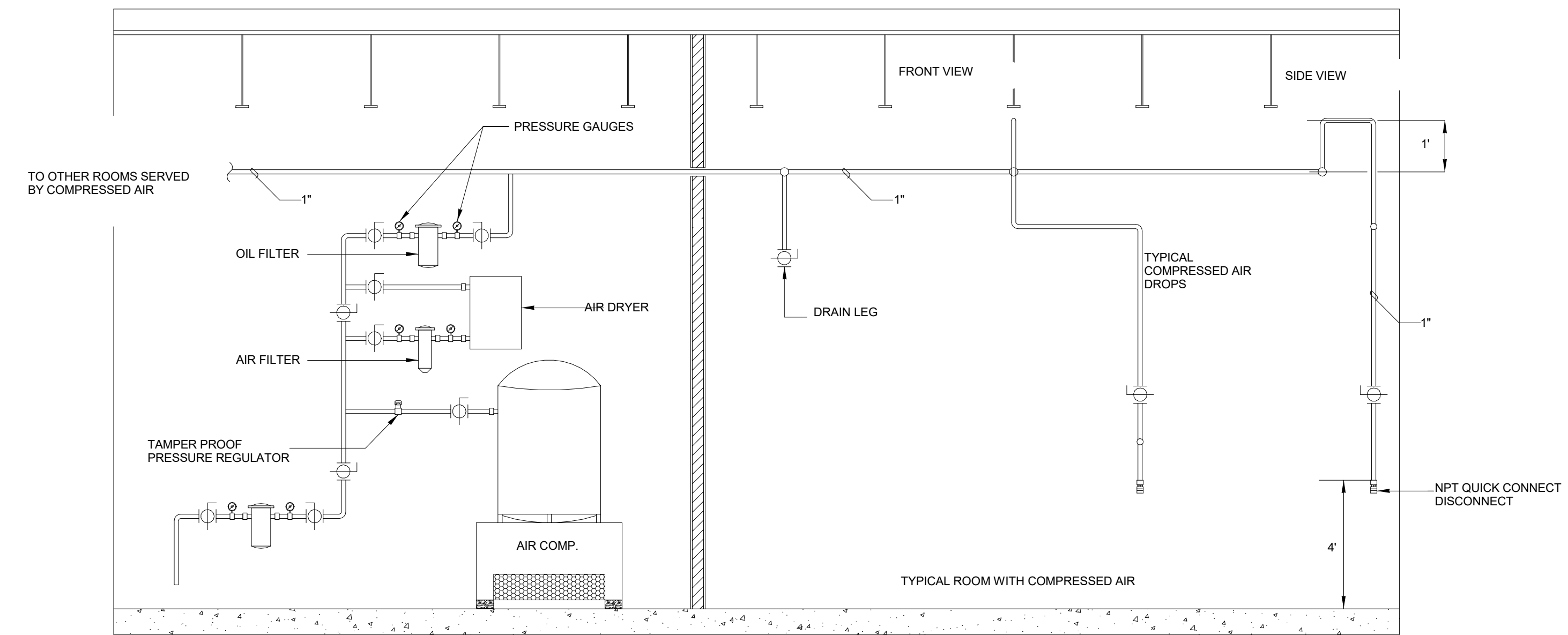
PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

NOTE: SEE WATER RISER DIAGRAMS FOR LOCATIONS OF SHOCK ABSORBERS.

WATER SHOCK ARRESTOR DETAIL
NOT TO SCALE

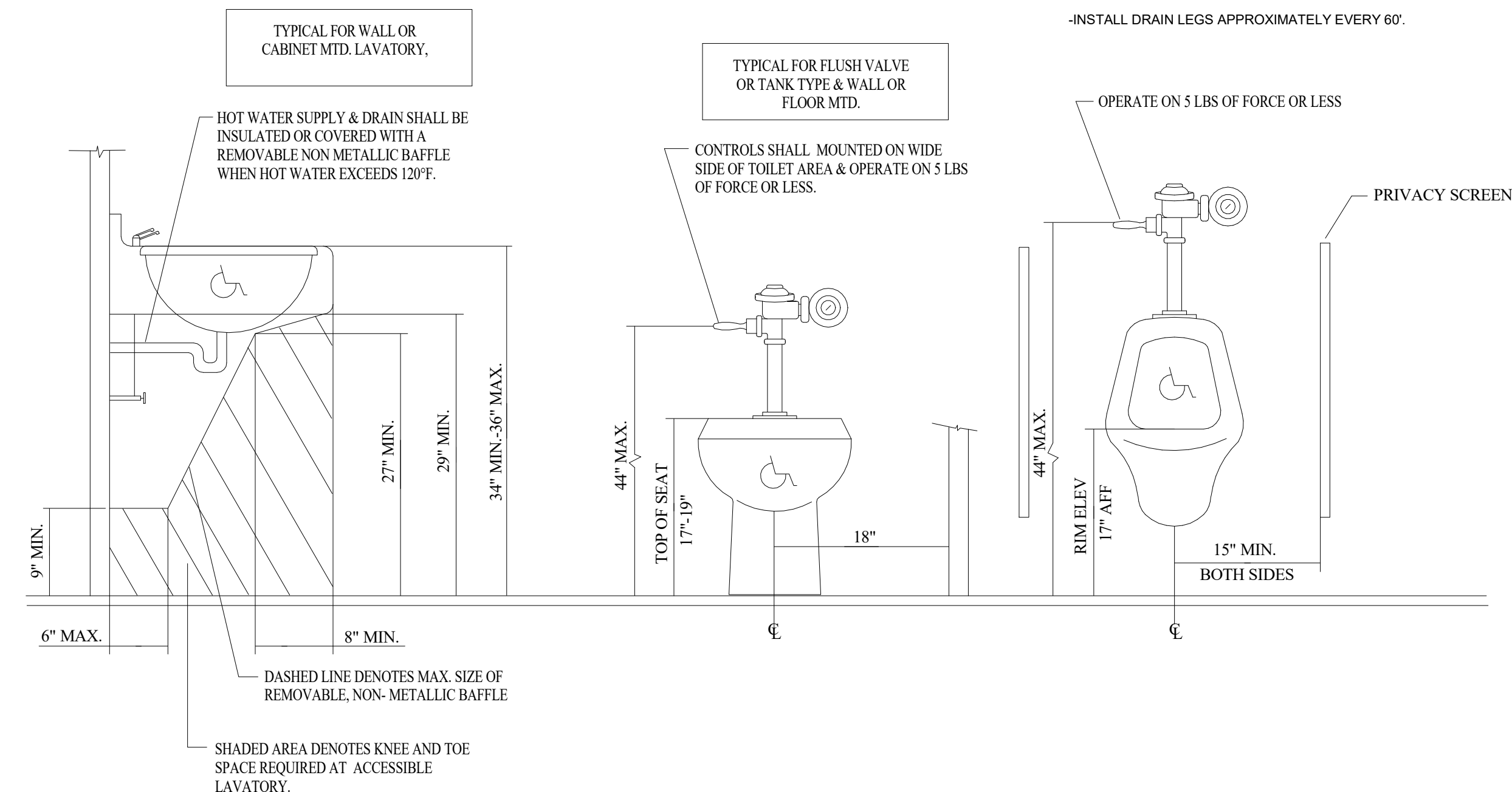


FLOOR DRAIN TRAP PRIMER DETAIL
NOT TO SCALE

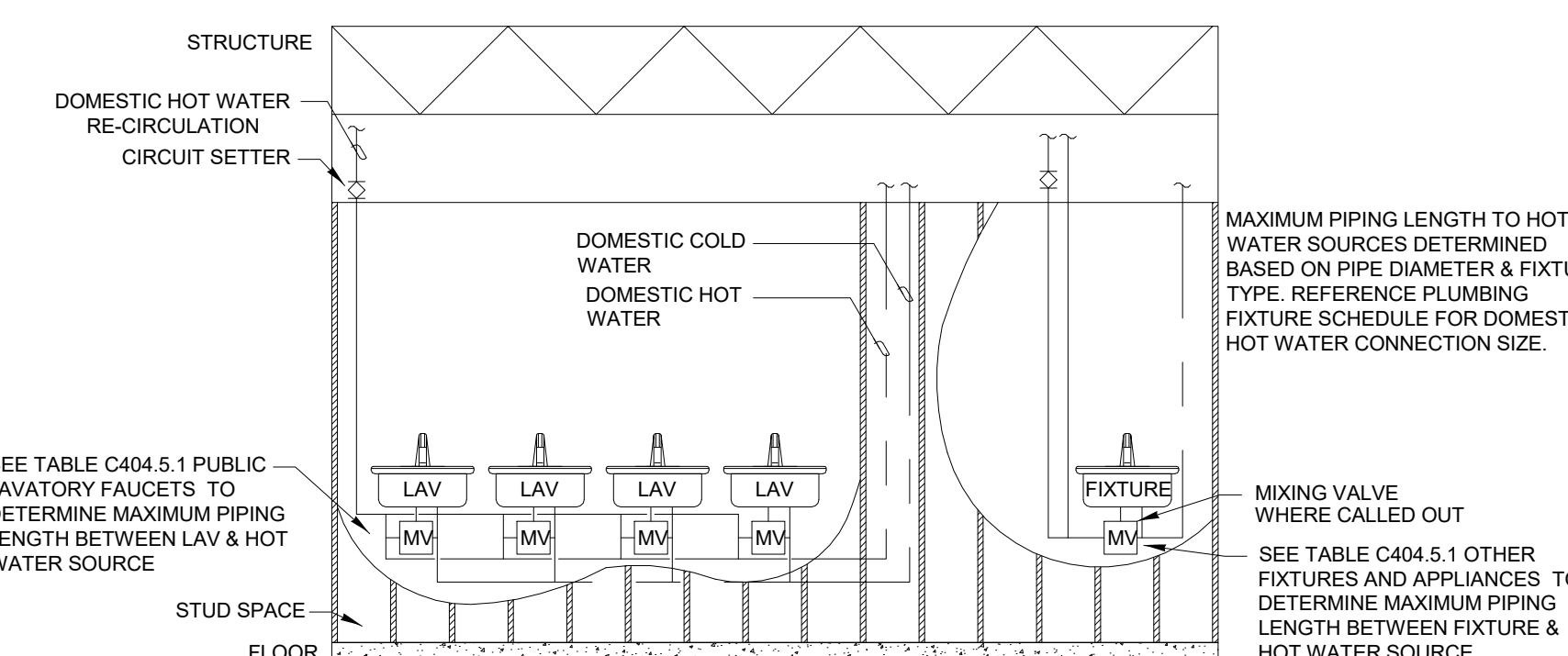


TYPICAL AIR COMPRESSOR SET UP DETAIL
N.T.S.

GENERAL NOTES:
-REQUIRED MAINTENANCE OF FILTERS WHEN PRESSURE DROP ACROSS FILTER IS 10PSI OR GREATER.
-INSTALL COMPRESSED AIR LINES AT A SLOPE OF 1/8" PER FOOT.
-INSTALL DRAIN LEGS APPROXIMATELY EVERY 60'.



ACCESSIBLE PLUMBING FIXTURE INSTALLATION
NOT TO SCALE



PLUMBING FIXTURE DOMESTIC HOT WATER RE-CIRCULATION DETAIL
NOT TO SCALE

"NOMINAL PIPE SIZE INCHES"	"MAXIMUM PERMITTED PIPE LENGTH FEET"	
	"DOMESTIC COLD WATER"	"DOMESTIC HOT WATER"
1/2"	10'	10'
3/4"	15'	15'
1"	20'	20'
1-1/4"	25'	25'
1-1/2"	30'	30'
2"	40'	40'
2-1/2"	50'	50'
3"	60'	60'
4"	80'	80'
6"	120'	120'



FIRE ALARM EQUIPMENT LEGEND

	FIRE ALARM CONTROL PANEL
	FIRE ALARM PULL STATION
	FIRE ALARM HORN
	FIRE ALARM STROBE
	FIRE ALARM HORN/STROBE
	CEILING MOUNTED SPEAKER
	DUCT DETECTOR
	SMOKE DETECTOR - PHOTOELECTRIC
	SMOKE DETECTOR - PHOTOELECTRIC W/INTERNAL CARBON MONOXIDE
	135° STANDARD HEAT DETECTOR
	PIR DETECTOR
	DOOR HOLD - MAGNETIC HOLD
	FLOW SWITCH
	TAMPER SWITCH

COMMUNICATION LEGEND

	CLOCK ONLY
	CLOCK / PA SPEAKER WALL MOUNTED
	ROUND CEILING MOUNTED SPEAKER
	SQUARE SPEAKER
	INTERCOM PUSH TO CALL SWITCH
	WIRELESS ACCESS POINT ABOVE THE CEILING
	PROJECTOR
	WALL MOUNTED HDMI
	PLAIN DATA OUTLET
	PLAIN DATA OUTLET WITH MOUNTING HEIGHT
	COMBINATION DATA/TELEPHONE
	FLOOR MOUNTED COMBINATION DATA/TELEPHONE
	CEILING MOUNTED COMBINATION DATA/TELEPHONE
	TELEVISION OUTLET
	COAX JACK
	TELEPHONE - DATA

SECURITY SYSTEM LEGEND

	SECURITY CAMERA
	ADA DOOR OPERATOR PUSH BUTTON
	ELECTRIC DOOR STRIKE
	CARD READER FOR DOOR OPERATOR

LIGHTING LEGEND

NOTES:
SYMBOLS SHOWN ARE STANDARD. VARIATION AND/OR COMBINATIONS MAY BE USED ON THE PLANS. THIS LIST SHOWS STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THE SYMBOL ON THE PROJECT DRAWINGS OCCUR, THE ITEM SHALL BE PROVIDED AND INSTALLED.
VARIATION AND/OR COMBINATION MAY BE USED ON THE PLANS.
A NUMBER NEXT TO A RECEPTACLE OR DEVICE INDICATES A CIRCUIT NUMBER.
AN UPPER CASE LETTER NEXT TO A SWITCH INDICATES THE FUNCTION OF THE SWITCH. A LOWER CASE LETTER INDICATES THE SWITCH CIRCUIT.
AN UPPER CASE LETTER NEXT TO A LIGHT FIXTURE INDICATES THE TYPE OF FIXTURE. REFER TO THE LUMINAIRE SCHEDULE FOR FIXTURE SPECIFICATIONS. A LOWER CASE LETTER NEXT TO A LIGHT CORRESPONDS TO THE SWITCH DESIGNATION.

SWITCHES

	SINGLE POLE SWITCH
	TWO POLE SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	DIMMER SWITCH
	3 WAY DIMMER SWITCH - (4D INDICATES A 4WAY DIMMER)
	DOOR ACTIVATED SWITCH
	WALL MOUNTED DUAL TECHNOLOGY MANUAL ON / AUTO OFF VACANCY SENSOR SWITCH
	LOW VOLTAGE LIGHT SWITCH
	MANUAL MOTOR STARTER
	PILOT LIGHT SWITCH
	AUTO ON / AUTO OFF LIGHT SWITCH
	DUAL TECHNOLOGY MOTION / OCCUPANCY SENSOR LIGHT SWITCH
	MANUAL ON / AUTO OFF DIMMING LIGHT SWITCH
	KEY OPERATED LIGHT SWITCH
	MANUAL ON - TIMED OFF LIGHT SWITCH
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	SCENE CONTROL STATION
	UNIT LIGHTING MANAGEMENT CONTROL STATION.

LIGHT FIXTURES

	1x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
	2x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
	2x2' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
	OPEN STRIP FIXTURE
	WALL BRACKET LINEAR FIXTURE
	RECEPTACLE MOUNTED ABOVE COUNTER
	RECEPTACLE MOUNTED IN CASEWORK
	ELECTRIC HAND DRYER
	THERMOSTAT
	OPEN/CLOSE/STOP PUSH BUTTON
	DRAWING KEY NOTES
	ROOM DESIGNATION
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH A WEATHER PROOF COVER
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNTED AT 44" ABOVE FINISHED FLOOR
	EMERGENCY EXTERIOR EGRESS FIXTURE

ELECTRICAL EQUIPMENT LEGEND

	BRANCH CIRCUIT PANELBOARD
	TELEPHONE TERMINAL BOARD
	ELECTRIC MOTOR
	FUSED SAFETY SWITCH / DISCONNECT COMBINATION
	MOTOR STARTER
	CONTACTOR
	CIRCUITRY HOMERUN: PANEL LA - CIR. #7
	CONDUIT OR WIRE CONCEALED IN WALL/CLG. (SOLID LINE TYPE)
	CONDUIT OR WIRE UNDERFLOOR/UNDERGRD. (CENTER LINE TYPE)

MAIN DISTRIBUTION GEAR

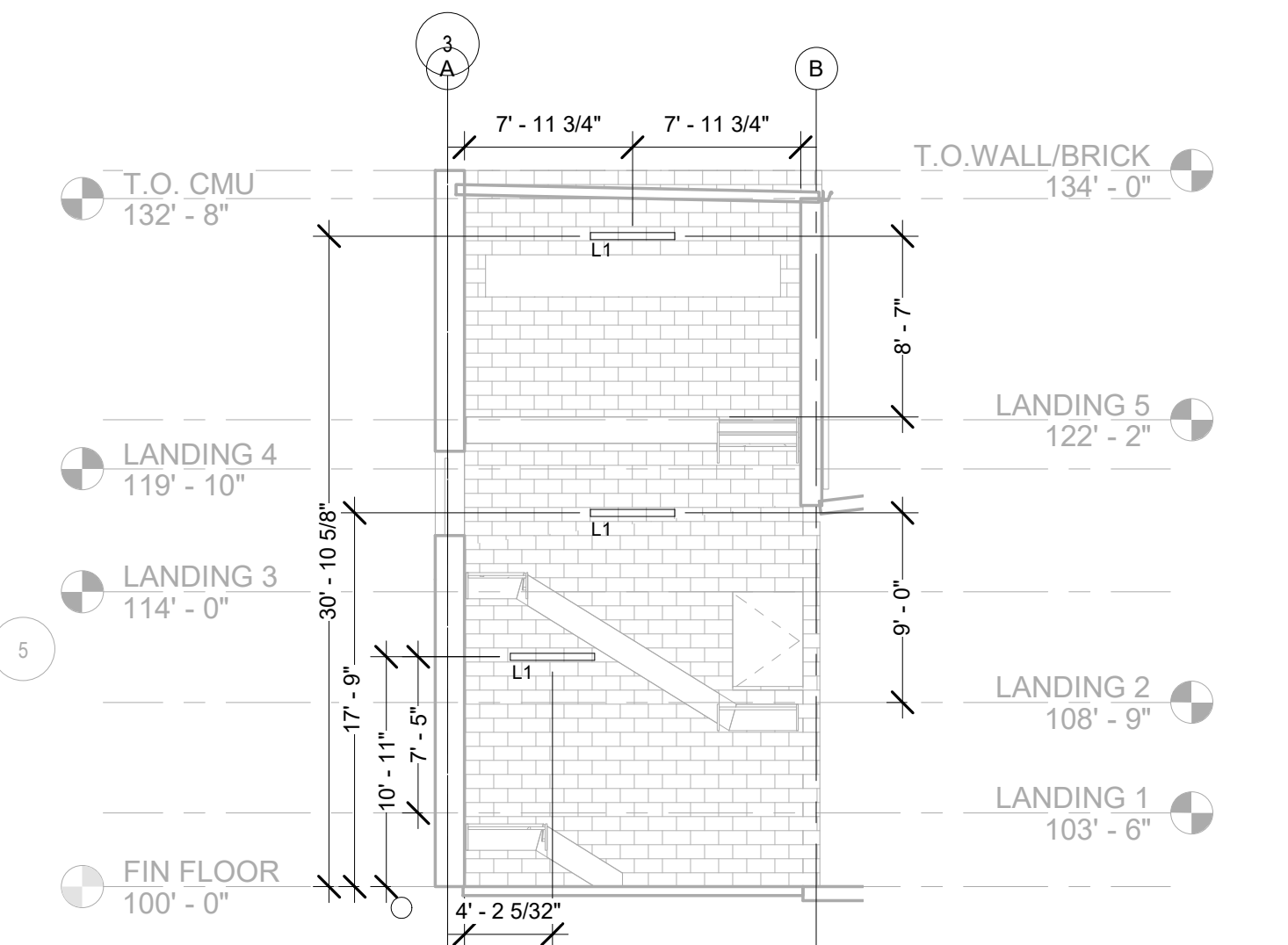
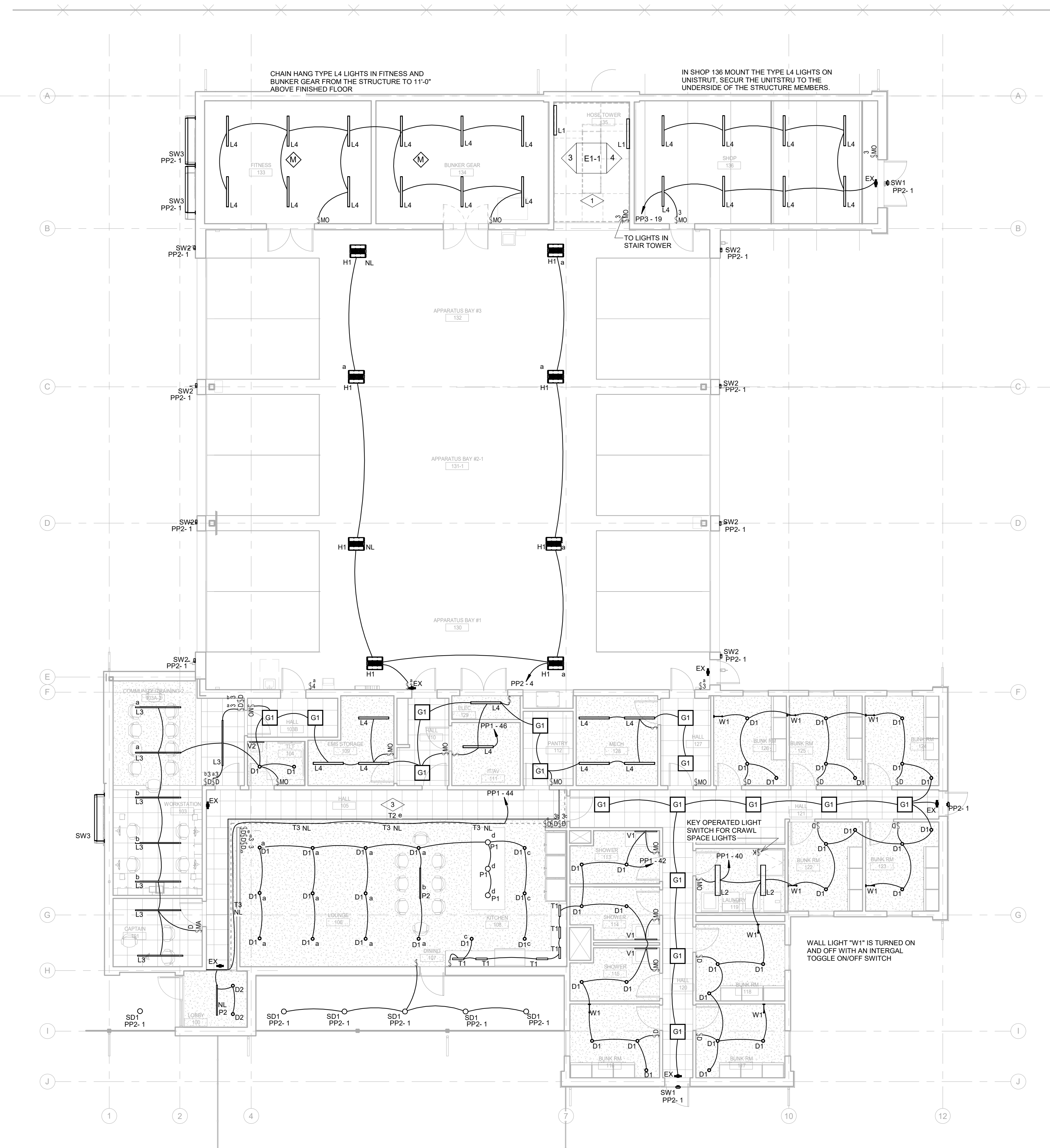
	CIRCUIT BREAKER IN A PANEL BOARD
	PAD MOUNTED UTILITY TRANSFORMER
	FUSED DISCONNECT 100A = AMP RATING 2P = NUMBER OF POLES
	FUSED DISCONNECT
	ELECTRICAL METER SHOWN ON ONE-LINE DIAGRAMS
	ELECTRICAL POWER PANEL WITH MAIN LUG OR MAIN BREAKER PP1 = PANEL NAME 225A MLO = MAIN LUG OR BREAKER SIZE 120/208V = PANEL VOLTAGE 3PH, 4 WIRE = PANEL PHASE, DISTRIBUTION TYPE
	PP1 225A MCB 120/208V 3PH, 4W
	PP1 225A MLO 120/208V 3PH, 4W

ELECTRICAL DEVICE LEGEND

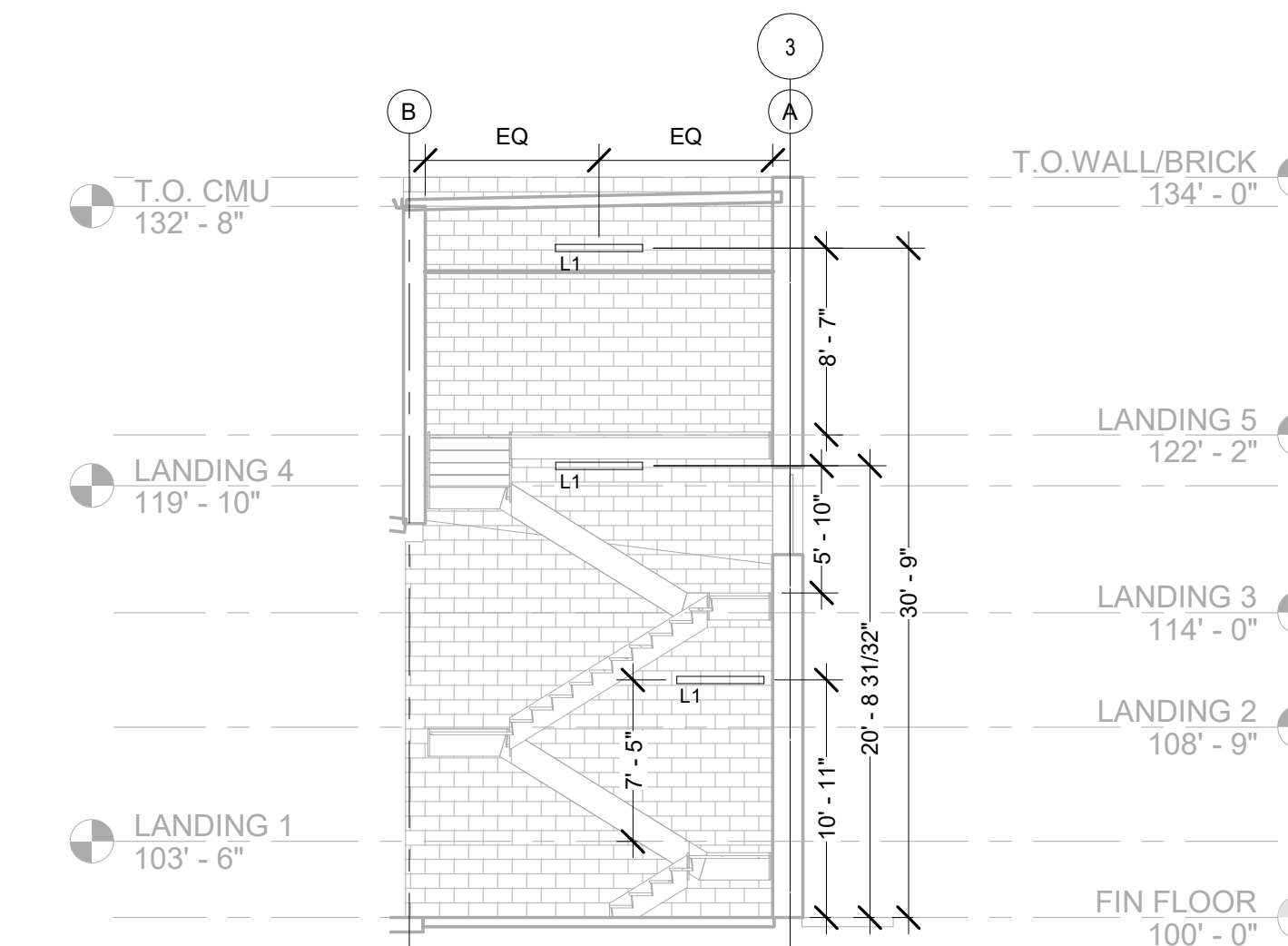
	CEILING JUNCTION BOX - SURFACE/FLUSH
	WALL JUNCTION BOX - SURFACE/FLUSH
	DUPLX RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SPLIT WIRE DUPLX RECEPTACLE
	CEILING MOUNTED DUPLX RECEPTACLE
	FOURPLEX RECEPTACLE
	FLOOR MOUNTED FOURPLEX RECEPTACLE
	APPLIANCE RECEPTACLE - 3 WIRE
	GROUND FAULT CIRCUIT INTERRUPTER
	AIR HANDLING UNIT
	ALUMINUM
	ACCESS PANEL OR DOOR
	AUTOMATIC TRANSFER SWITCH
	AUDIO / VIDEO
	AVERAGE
	AMERICAN WIRE GAGE
	BUILDING AUTOMATION SYSTEM
	BASEBOARD
	BACK DRAFT DAMPER
	BACK FLOW PREVENTOR
	BOILER
	BUILDING
	BELOW
	BOTTOM OF BEAM
	BOTTOM OF DUCT
	BOTTOM OF PIPE
	BASEMENT
	BRITISH THERMAL UNIT
	CHILLER
	CAPACITY
	CIRCUIT BREAKER
	CIRCUIT BALANCING VALVE
	CORRELATED COLOR TEMPERATURE
	CIRCUIT
	CUBIC FEET PER HOUR
	CUBIC FEET PER MINUTE
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CAST IRON
	CENTER LINE
	CEILING
	CONCRETE MASONRY UNIT
	CLEAN OUT
	COLUMN
	COMPRESSOR
	CONCRETE
	CONDENSATE
	CONNECTION
	CONTINUATION
	CONTRACTOR
	COLOR RENDERING INDEX
	COOLING TOWER
	CURRENT TRANSFORMER
	CUPPING UNIT
	COPPER
	CABINET UNIT HEATER
	CONSTANT VOLUME BOX
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	DRY BULB
	DEPARTMENT
	DRINKING FOUNTAIN
	DIAMETER
	DIAGRAM
	DIFFERENTIAL DISCHARGE
	DIVISION
	DOWN
	AIR ADMITTANCE VALVE
	ABOVE
	AIR CONDITIONING UNIT
	ABOVE COUNTER
	AREA DRAIN (SEE SYMBOLS)
	ABOVE FINISHED CEILING
	ABOVE FINISHED GRADE
	AMPS INTERRUPTING CAPACITY
	ABOVE FINISHED FLOOR
	AIR HANDLING UNIT
	ALUMINUM
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	DIVISION
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	CAPACITY
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	CIRCUIT BALANCING VALVE
	CORRELATED COLOR TEMPERATURE
	CIRCUIT
	CUBIC FEET PER HOUR
	CUBIC FEET PER MINUTE



E1-1 LIGHTING KEYNOTES	
Note Number	Note Text
1	PROVIDE TYPE "L1" LIGHT FIXTURES IN STAIR TOWER. REFER TO STAIR TOWER ELEVATIONS FOR MOUNTING HEIGHTS. FIELD ADJUST THE MOUNTING HEIGHTS TO WORK WITH THE COURSE WORK OF THE BRICKS. CIRCUIT THE LIGHTS IN THE TOWER WITH THE LIGHTS IN THE MEZZANINE.
3	PROVIDE CONTINUOUS RIBBON LIGHT IN COVE, THE 4" T3" SECTIONS WILL BE UNSWITCHED FOR NIGHT LIGHT USE.



LIGHTING - WEST WALL - STAIR TOWER
1/8" = 1'-0"

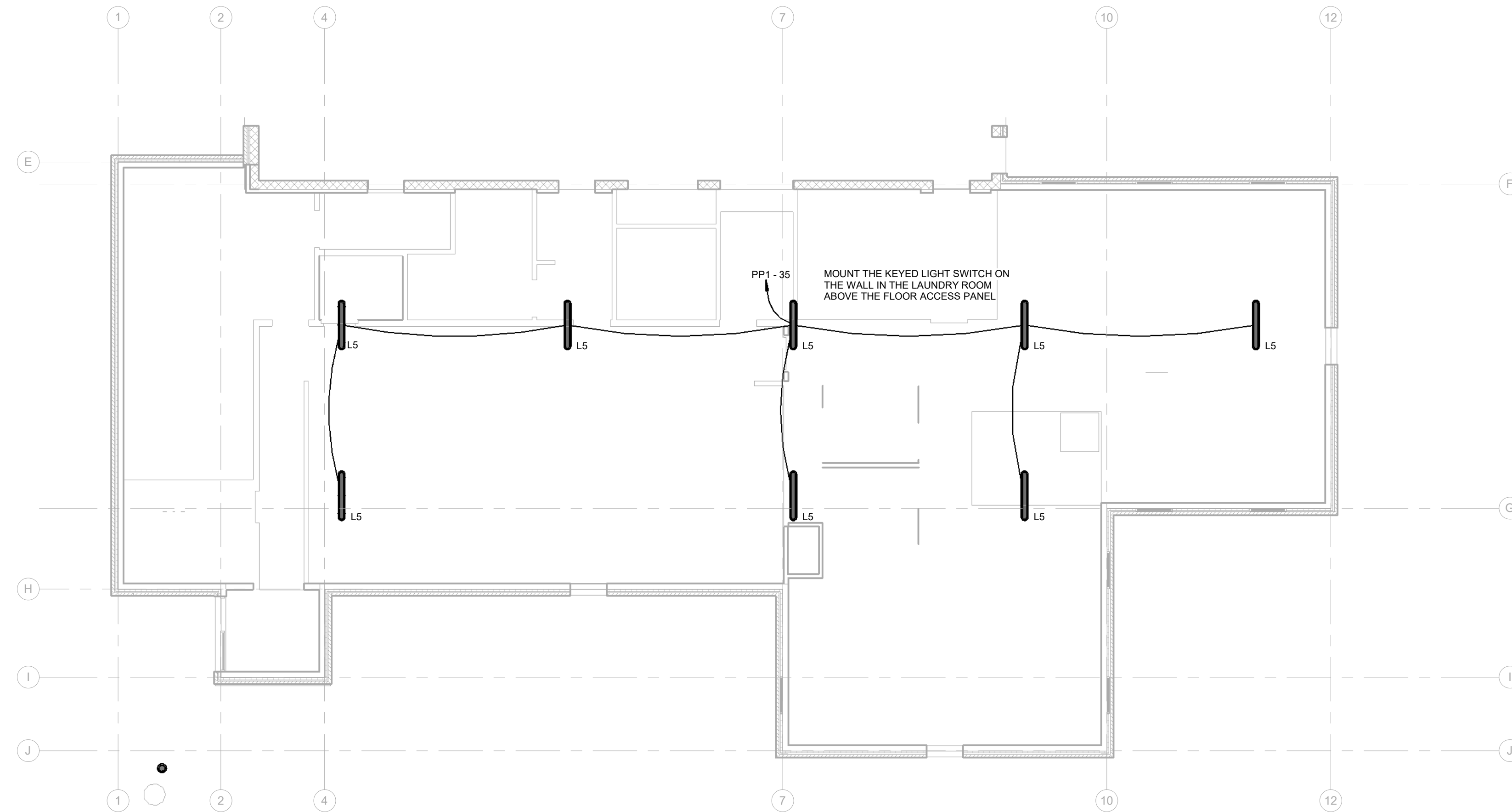


LIGHTING - EAST WALL - STAIR TOWER
1/8" = 1'-0"



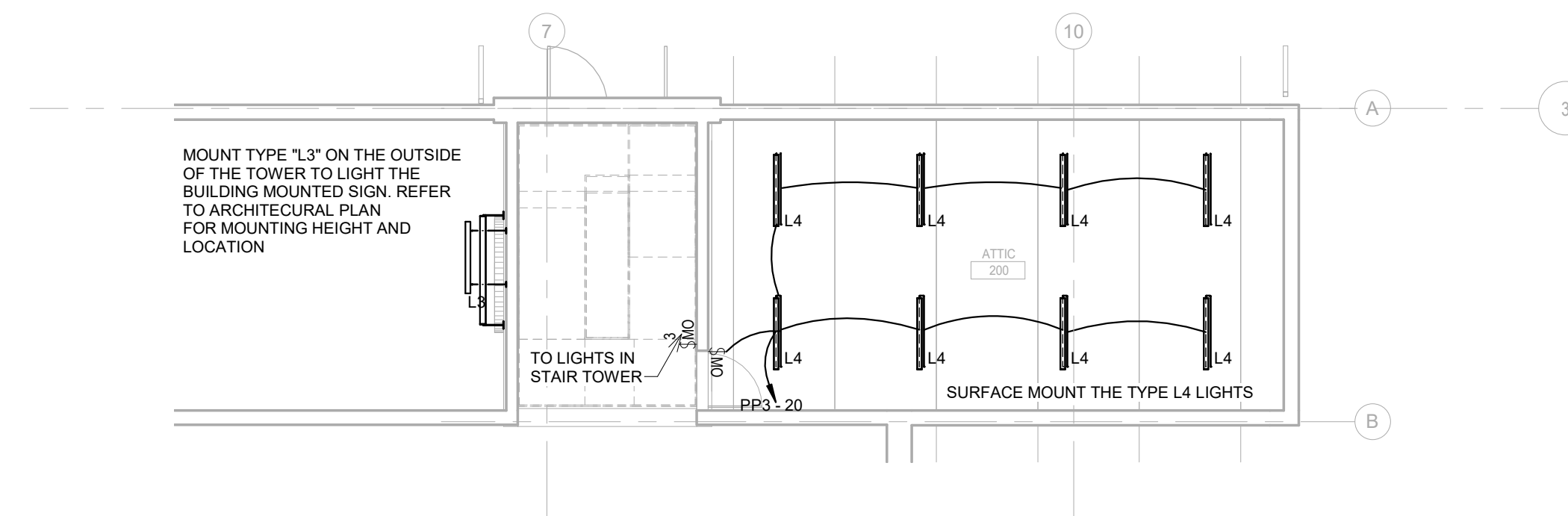
LIGHTING - FLOOR PLAN

1/8" = 1'-0"



LIGHTING - CRAWL SPACE PLAN

1/8" = 1'-0"

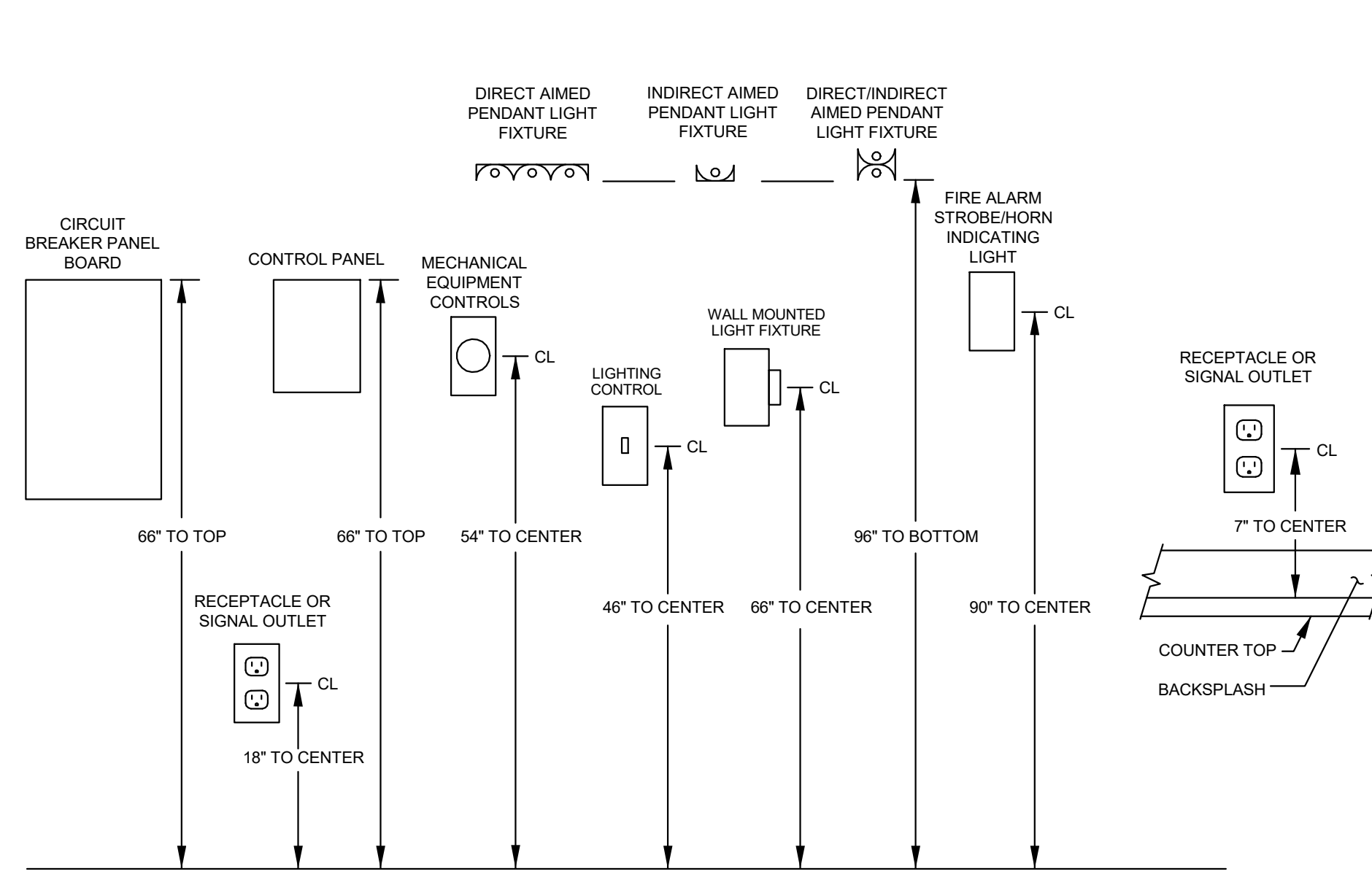


LIGHTING - MEZZANINE PLAN

1/8" = 1'-0"

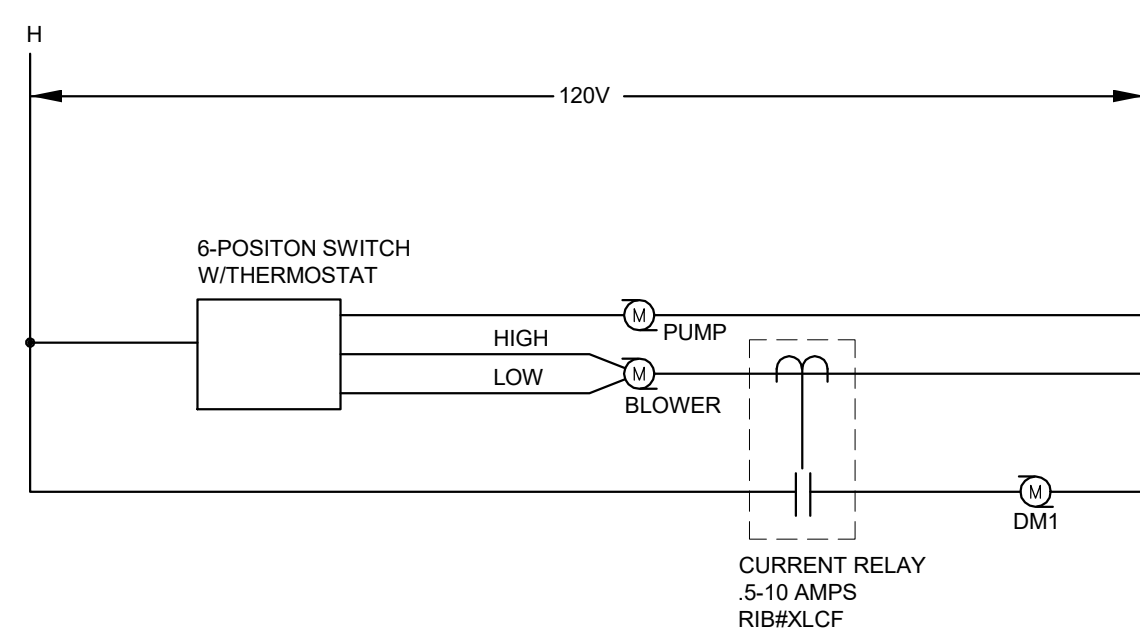
LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	LAMP	DESCRIPTION
D1	PRESCOLITE LIGHTING	LFASL-4LFSL-20L-39K-8-B6	2000LM, 3500K, 22W, 80CRI, 120V, 0-10V LED DIMMING	RECESSED LED DOWN LIGHT, 0-10V DRIVER, SEMI-DIFFUSE CLEAR ALZAK TRIM, SEMI-DIFFUSE REF. FINISH
D2	PRESCOLITE LIGHTING	LCAISL-4LFSL-20L-35K-8-WW-B6	2000LM, 3500K, 22W, 80CRI, 120V, 0-10V LED DIMMING	RECESSED LED WALL WASH DOWN LIGHT, 0-10V DRIVER, SEMI-DIFFUSE CLEAR ALZAK TRIM, SEMI-DIFFUSE REF. FINISH
EX	COMPASS LIGHTING	CE-CAG	1.5W LED	LED EXIT LIGHT, WHITE HOUSING, GREEN LETTERING, SELF-DIAGNOSTICS, NICKEL CADMIUM BATTERY
G1	COLUMBIA LIGHTING	LJT22-35VLG-FS-SFA-EDU-C588-G2	4265LM, 3500K, 42W, 80CRI, 0-10V LED DIMMING	2x2 LED RECESSED GRID TROFFER, WHITE FINISH ON STEEL HOUSING, SMOOTH FROSTED ACRYLIC SHIELDING.
H1	COLUMBIA LIGHTING	PEL-2-35-MH-FP-W-ED-U-F3C5-LHVQM5	24,320LM, 3500K, 80CRI, 0-10V LED DIMMING	PELOTON HIGH PERFORMANCE HIGH BAY LED FIXTURE, WIDE DISTRIBUTION, FROSTED POLYCARBONATE LENS, AIRCRAFT CABLE HANGER.
L1	PINNACLE ARCHITECTURAL LIGHTING	EX4D-A-N-835-4-WA-U-PL2-1	3000LM, 3500K, 26W, 80CRI, 0-10V LED DIMMING	WALL MOUNTED EDGE LINEAR FIXTURE, PROVIDE DOWN SHIELDING WHICH OBSCURES THE LED SOURCE, WHITE FINISH
L2	COLUMBIA LIGHTING	RLW-4-35-LW-4-FA-W-ED-U	4251LM, 3500K, 34W, 0-10V LED DIMMING	REVALUME™ LINEAR WRAP, WHITE FINISH, FROSTED ACRYLIC SHIELDING.
L3	PINNACLE ARCHITECTURAL LIGHTING	EX1B-A-BW-835HO-835-6-AC48-U-PL2-1-0-DIMMING	72384LM DIRECT, 2772LM INDIRECT, 79W, 80CRI, 0-10V LED DIMMING	6L EDGE BIDIRECTIONAL LINEAR FIXTURE, SATIN LENS DIRECT SHIELDING, BATHING LENS INDIRECT SHIELDING, 15/16" BEVELED GRID MOUNTING, PROVIDE JUNCTION BOX MOUNTING FOR LIGHT MOUNTED TO GY CEILINGS
L4	COLUMBIA LIGHTING	MPS-4-35-ML-C-W-ED-U	4566LM, 3500K, 40W, 0-10V LED DRIVER	4' MULTIPURPOSE LINEAR LED FIXTURE, FROSTED ACRYLIC LENS, WIDE DISTRIBUTION.
L5	COLUMBIA LIGHTING	LXEM-4-35-HL-4-RP-ED-U	12350LM, 4000K, 80CRI, 99W, 120V	4' LINEAR ROUGH SERVICE WET LISTED IP65 AND IP66 RATED, ACRYLIC LENS
P1	BRUOK LIGHTING	LLED-35K-80-830-MC-PWH	1150LM, 3500K, 90CRI, 14.9VA, 0-10V LED DIMMING	MOUTH-BLOWN GLASS PENDANT, CLEAR SHADE, MATTE CHROME FINISH, WHITE CANOPY AND CABLE.
P2	TECH LIGHTING	700LSSPA48-S-LED930	3622LM, 3000K, 90CRI, 70W, 0-10V DIMMING	SPAN LINEAR SUSPENSION FIXTURE, SATIN NICKEL FINISH, CABLE HUNG
T1	FINELITE LIGHTING	UC-E-22-S-PS-8W-CP*	380LM, 3500K, 87CRI, 6.1W, 120V, NON DIMMING LED	EDGE UNDER CABINET MOUNTED LIGHT FIXTURE, PROVIDE MOUNTING HARDWARE, DRIVERS, POWER SUPPLIES AND ALL NECESSARY COMPONENTS. SILVER FINISH.
T2	CONTECH LIGHTING	TL224V235K 12R TLP24VHW96 ENC120V; TLCP19HW TLPDM10V TLP RPT TLACD6 TLAL'D6 TLACDC4 TLACDE2	358LM/FT, 3500K, 3.5W/FT, 80CRI, 120V LED DIMMING	TL TAPELIGHT SERIES, CLEAR LENS, REFER TO THE ARCHITECT REFLCTED CEILING PLAN FOR RUN LENGTH
T3	CONTECH LIGHTING	TL224V235K 12 TLP24VHW20 ENC; TLCP19HW TLPDM10V TLP RPT TLACD6 TLAL'D6 TLACDC4 TLACDE2	358LM/FT, 3500K, 3.5W/FT, 80CRI, 120V LED DIMMING	TL TAPELIGHT SERIES, CLEAR LENS, REFER TO THE ARCHITECT REFLCTED CEILING PLAN FOR RUN LENGTH
V1	WAC LIGHTING	WS-77636-3500K-30W-2561-AL	2561LM, 3500K, 30W, 120V, ELV LED DIMMING	3L BRINK WALL MOUNTED VANITY LIGHT, BRUSHED ALUMINUM FINISH, MOUNT HORIZONTALLY OVER THE BATHROOM MIRROR.
V2	WAC LIGHTING	WS-77624-3500K-30W-2561-AL	1720LM, 3500K, 21W, 120V, ELV LED DIMMING	2L BRINK WALL MOUNTED VANITY LIGHT, BRUSHED ALUMINUM FINISH, MOUNT HORIZONTALLY OVER THE BATHROOM MIRROR.
W1	CONTECH LIGHTING	BL3JM-WW-NK	70LM, 3000K, 5W LED	LED WALL MOUNTED BED LAMP, JUNCTION BOX MOUNTED, WARM WHITE LAMP COLOR TEMPERATURE, BRUSHED NICKEL FINISH, TOGGLE SWITCH.



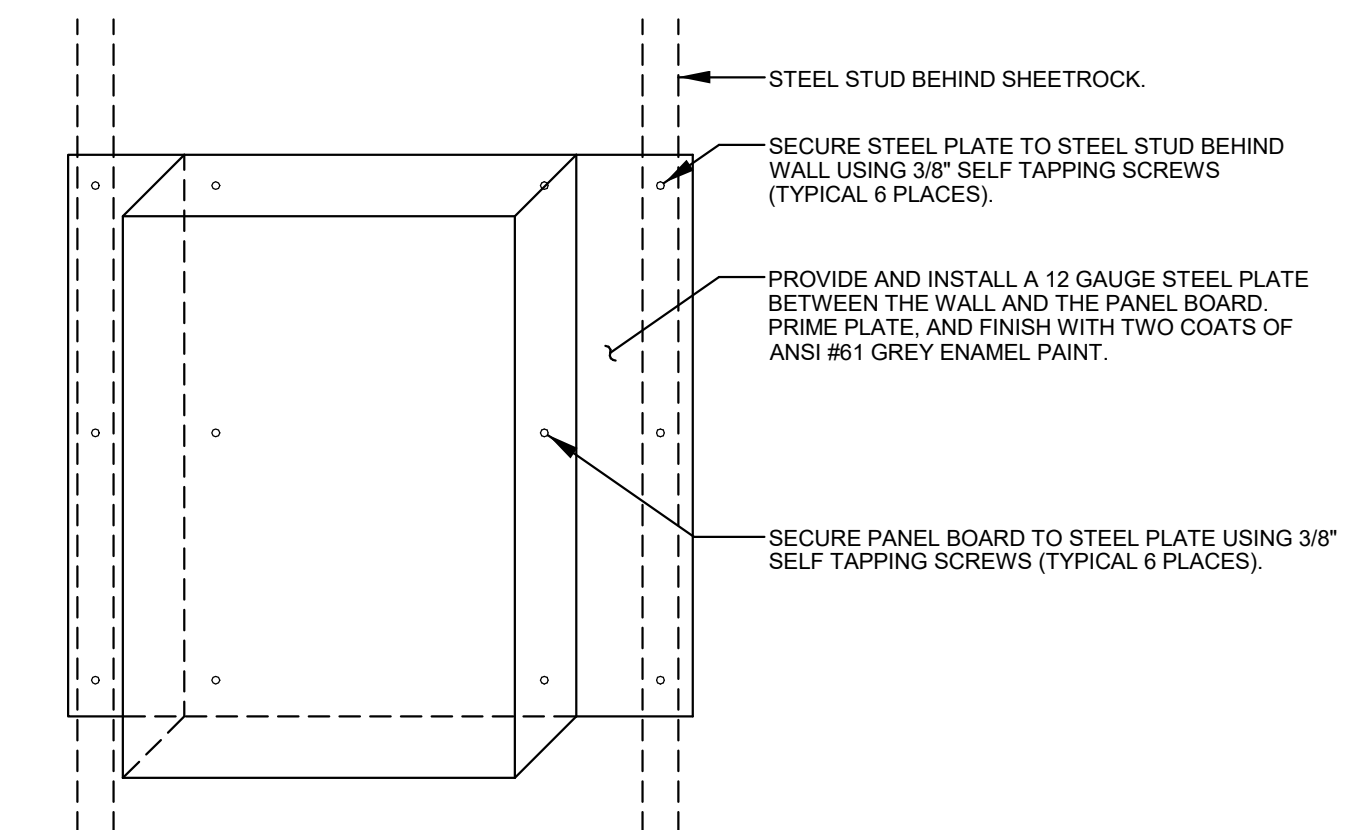
DEFAULT MOUNTING HEIGHTS

NO SCALE
CALCULATE BOX MOUNTING HEIGHT FOR WALL MOUNTED LIGHT FIXTURES USING APPROVED FIXTURE SUBMITTALS.
CALCULATE PENDANT LENGTH FOR HANGING LIGHTING FIXTURES USING APPROVED FIXTURE SUBMITTALS.
MOUNTING HEIGHTS SHOWN ON THE PLANS, IN ROOM KEYS, OR DEVICE TAGS TAKE PRECEDENCE OVER THE ABOVE.



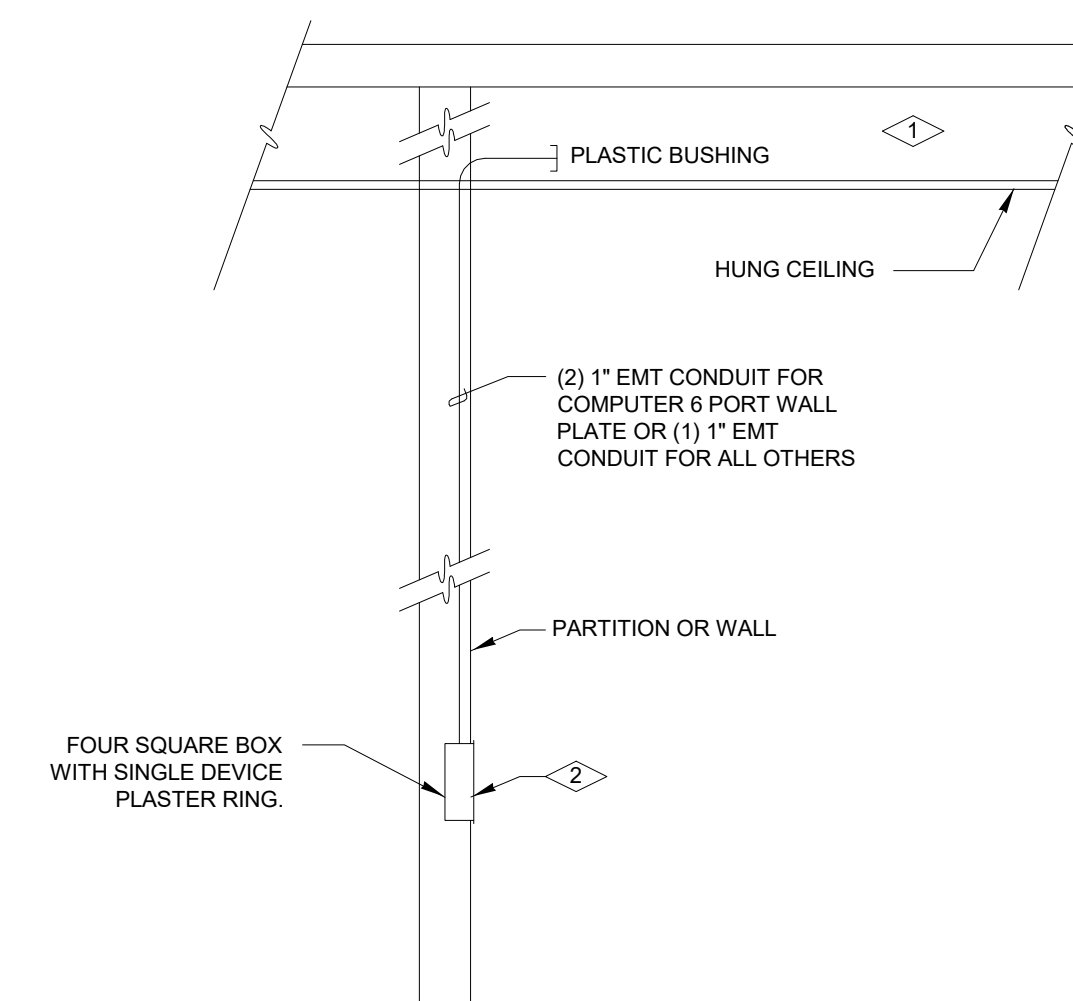
EC1 / EC2 WIRING DIAGRAM

NO SCALE
ADJUST CURRENT RELAY TO OPEN DAMPER WHEN BLOWER MOTOR IS RUNNING AT LOW SPEED.



SEISMIC SUPPORT OF PANELBOARDS

NO SCALE

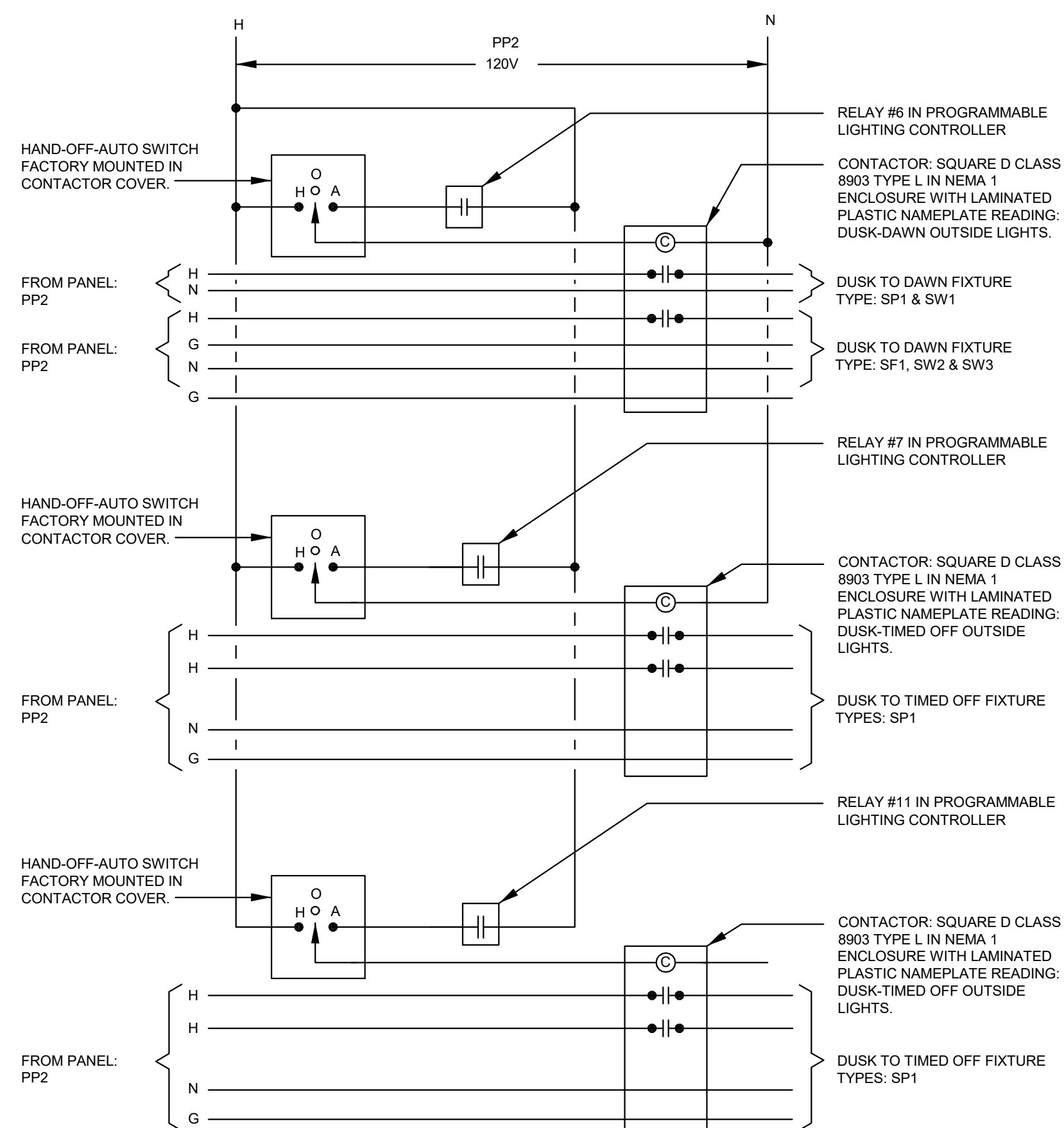


FLAG NOTES:

- ① WIRING TO BE RUN ABOVE CEILING. USE PLENUM RATED CABLE WHERE CEILING SPACE IS USED AS A RETURN PLENUM. SUPPORT FROM STRUCTURE MIN. OF EVERY 6'-0". DO NOT LAY ON CEILING TILE OR ATTACH TO CEILING SUPPORT WIRE SYSTEM UNLESS INSTALLATION CONFORMS TO 2002 NEC 300-11.
 - ② LOW VOLTAGE OUTLETS (EXAMPLE TELEPHONE, FAX, DATA, ETC.) MOUNT AT 16" A.F.F. UNLESS OTHERWISE NOTED ON THE DRAWINGS. COORDINATE LOCATIONS WITH BASEBOARD, CABINETS, WINDOWS OR OTHER ITEMS ALONG THE WALLS. REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER.
- LOCATE THERMOSTATS AT 60" A.F.F. UNLESS OTHERWISE NOTED ON THE DRAWINGS. COORDINATE LOCATIONS WITH CABINETS, WINDOWS OR OTHER ITEMS ALONG THE WALLS. REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER.

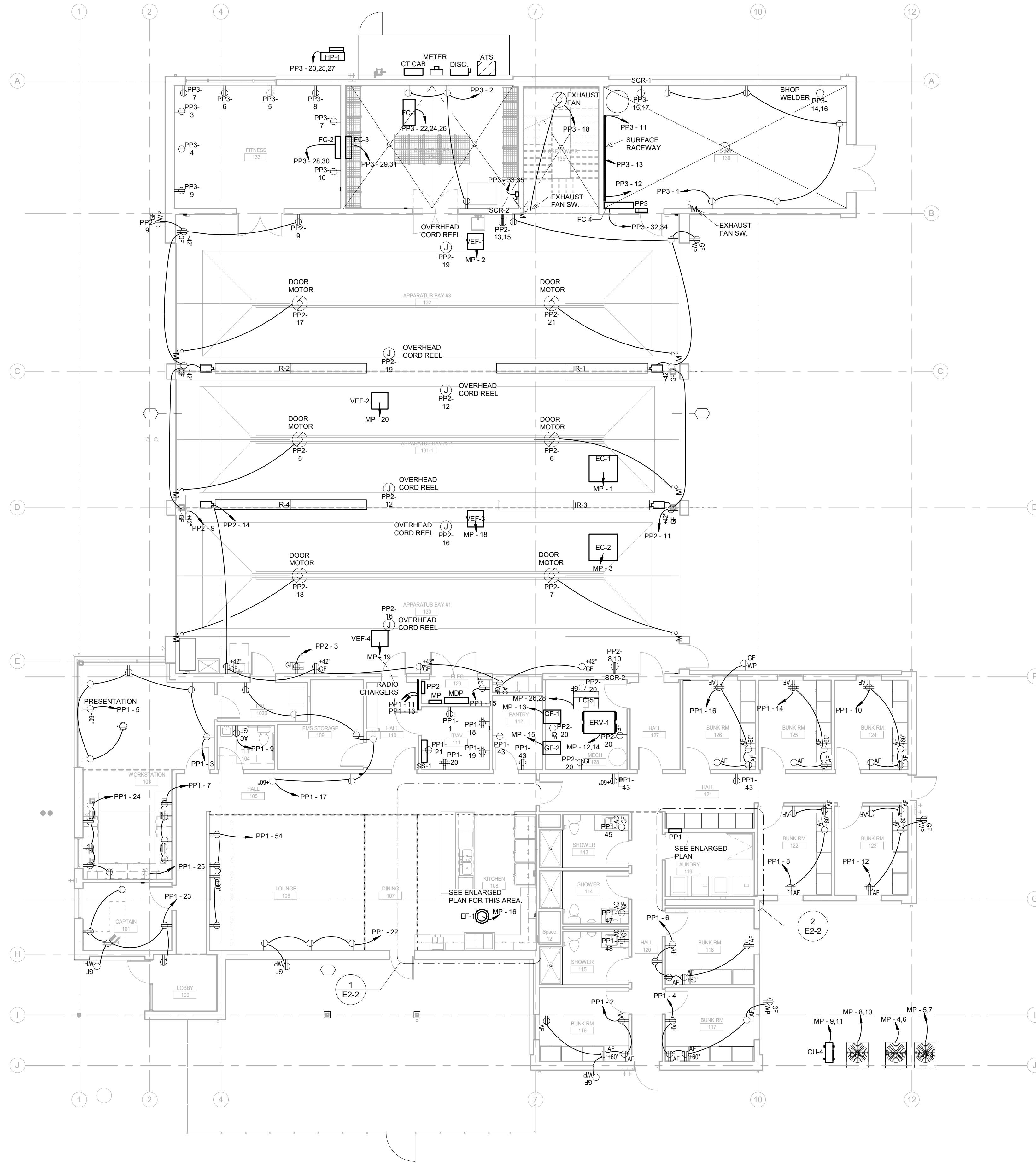
LOW VOLTAGE OUTLET WIRING DETAIL

NOT TO SCALE



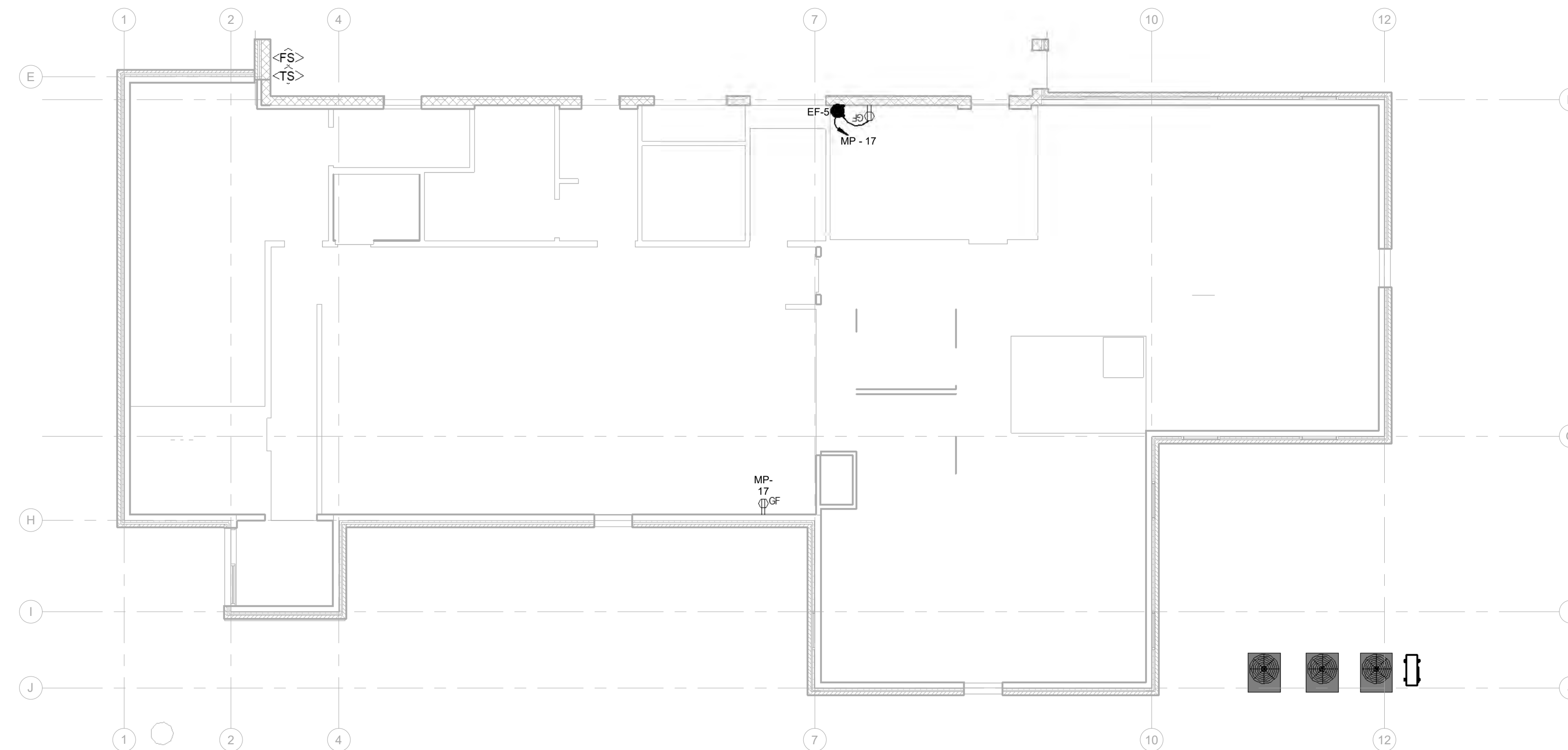
EXTERIOR LIGHTING CONTROL

NO SCALE

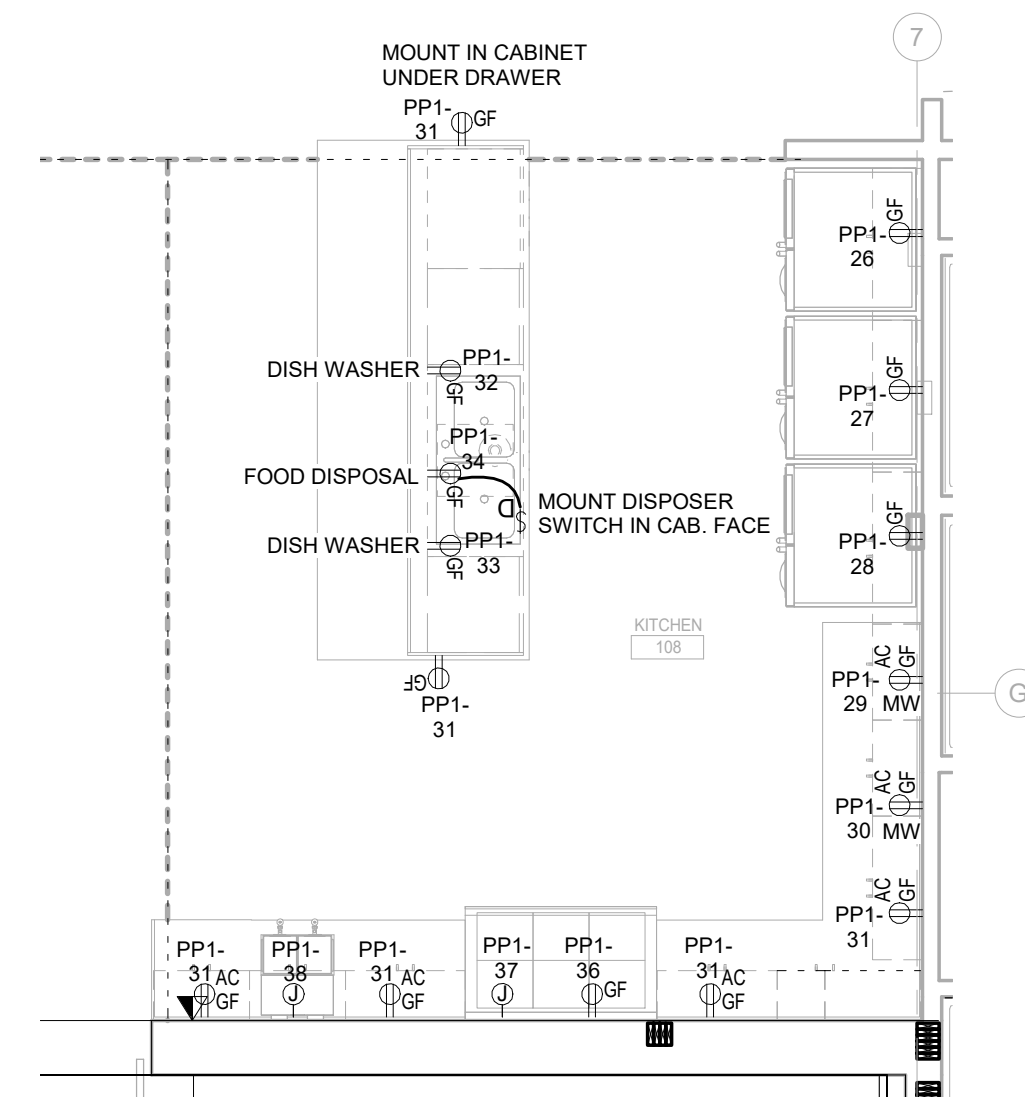


ELECTRICAL - FLOOR PLAN

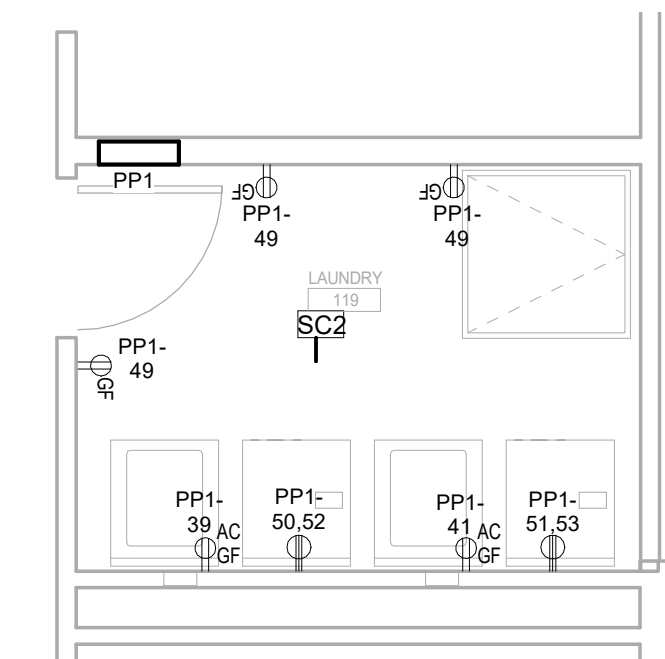
1/8" = 1'-0"



ELECTRICAL - CRAWL SPACE PLAN
1/8" = 1'-0"



ELECTRICAL - FLOOR PLAN - ENLARGED - KITCHEN AND LOUNGE
1/4" = 1'-0"



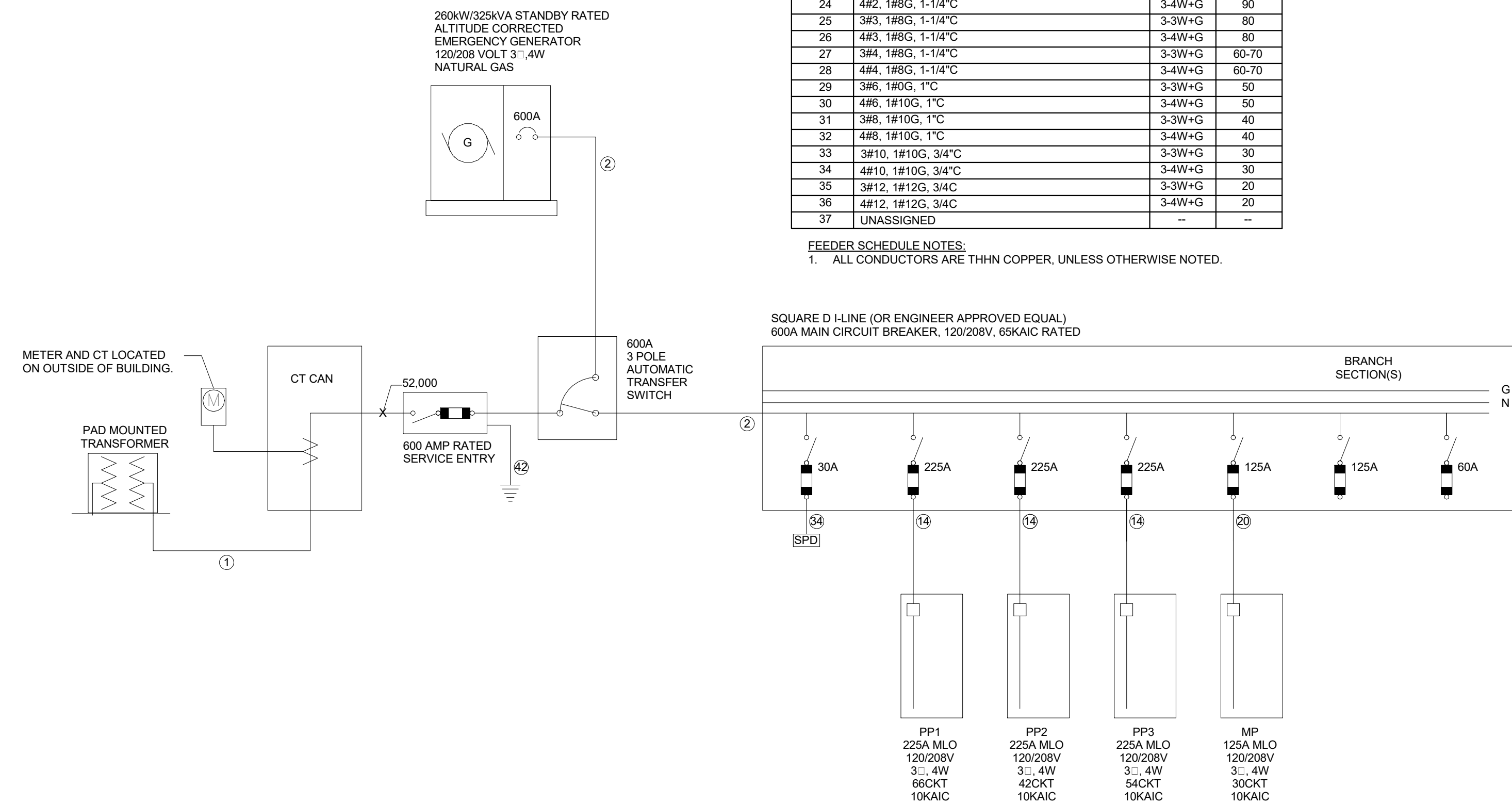
ELECTRICAL - FLOOR PLAN - LAUNDRY ROOM
1/4" = 1'-0"

CONDUIT AND FEEDER SCHEDULE			
FEEDER NO.	FEEDER NO.	PHASE	AMPS
1	2[3-350 kcmil, 1-#1G, 3°C]	3-W+G	600
2	2[4-350 kcmil, 1-#1G, 3°C]	3-W+G	600
3	2[3-250 kcmil, 1-#2G, 3°C]	3-W+G	500
4	2[4-250 kcmil, 1-#2G, 3°C]	3-W+G	500
5	2[3-30, 1#3G, 2°C]	3-W+G	400
6	2[4-30, 1#3G, 2°C]	3-W+G	400
7	2[3-20, 1#3G, 2°C]	3-W+G	350
8	2[4-20, 1#3G, 2°C]	3-W+G	350
9	3-350 kcmil, 1#4G, 3°C	3-W+G	300
10	4-350 kcmil, 1#4G, 3°C	3-W+G	300
11	3-250 kcmil, 1#4G, 3°C	3-W+G	250
12	4-250 kcmil, 1#4G, 3°C	3-W+G	250
13	3-4/0, 1#4G, 2°C	3-W+G	225
14	4-4/0, 1#4G, 2-1/2°C	3-W+G	225
15	3-3/0, 1#6G, 2°C	3-W+G	200
16	4-3/0, 1#6G, 2°C	3-W+G	200
17	3-2/0, 1#6G, 2°C	3-W+G	175
18	3-1/0, 1#6G, 2°C	3-W+G	175
19	3-1/0, 1#6G, 2°C	3-W+G	125-150
20	4-1/0, 1#6G, 2°C	3-W+G	125-150
21	3#1, 1#6G, 1-1/2°C	3-W+G	100-110
22	4#1, 1#6G, 1-1/2°C	3-W+G	100-110
23	3#2, 1#6G, 1-1/4°C	3-W+G	90
24	4#2, 1#6G, 1-1/4°C	3-W+G	90
25	3#3, 1#6G, 1-1/4°C	3-W+G	80
26	4#3, 1#6G, 1-1/4°C	3-W+G	80
27	3#4, 1#6G, 1-1/4°C	3-W+G	60-70
28	4#4, 1#6G, 1-1/4°C	3-W+G	60-70
29	3#6, 1#6G, 1°C	3-W+G	50
30	4#6, 1#10G, 1°C	3-W+G	50
31	3#8, 1#10G, 1°C	3-W+G	40
32	4#8, 1#10G, 1°C	3-W+G	40
33	3#10, 1#10G, 3/4°C	3-W+G	30
34	4#10, 1#10G, 3/4°C	3-W+G	30
35	3#12, 1#12G, 3/4°C	3-W+G	20
36	4#12, 1#12G, 3/4°C	3-W+G	20
37	UNASSIGNED	--	--

COPPER GROUNDING CONDUCTORS			
38	1#8 CU, 1/2°C	G	
39	1#6 CU, 1/2°C	G	
40	1#4 CU, 3/4°C	G	
41	1#2 CU, 3/4°C	G	
42	1#10 CU, 3/4°C	G	
43	1#20 CU, 3/4°C	G	
44	1#30 CU, 3/4°C	G	

FEEDER SCHEDULE NOTES:
1. ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.

FEEDER SCHEDULE NOTES:
1. ALL CONDUCTORS ARE THHN COPPER, UNLESS OTHERWISE NOTED.



Branch Panel: PP1

Location: LAUNDRY 119
 Supply From: MDP
 Mounting: Surface
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating:
 Mains Type:
 Mains Rating: 225 A
 MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Receptacle IT/AV 111	20 A	1	360 VA	1260...			1	20 A	Receptacle BUNK RM 116	2
3	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1		1080...	1260...		1	20 A	Receptacle BUNK RM 117	4
5	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1			180 VA	1260...	1	20 A	Receptacle BUNK RM 118	6
7	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1	720 VA	1080...			1	20 A	Receptacle BUNK RM 122	8
9	Receptacle TLT 104	20 A	1		180 VA	1080...		1	20 A	Receptacle BUNK RM 124	10
11	WIREMOLD HALL 110	20 A	1			1200...	1260...	1	20 A	Receptacle BUNK RM 123	12
13	WIREMOLD HALL 110	20 A	1	1200...	1080...			1	20 A	Receptacle BUNK RM 125	14
15	Receptacle 129 151	20 A	1		180 VA	1260...		1	20 A	Receptacle BUNK RM 126	16
17	Receptacle Space 25	20 A	1			1080...	360 VA	1	20 A	Receptacle IT/AV 111	18
19	Receptacle IT/AV 111	20 A	1	360 VA	360 VA			1	20 A	Receptacle IT/AV 111	20
21	Receptacle IT/AV 111	20 A	1		360 VA	720 VA		1	20 A	Receptacle LOUNGE 106	22
23	Receptacle CAPTAIN 101	20 A	1			1260...	900 VA	1	20 A	Receptacle WORKSTATION /TRAINING-1 103-1	24
25	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1	180 VA	180 VA			1	20 A	Receptacle KITCHEN 108	26
27	Receptacle KITCHEN 108	20 A	1		180 VA	180 VA		1	20 A	Receptacle KITCHEN 108	28
29	Receptacle KITCHEN 108	20 A	1			180 VA	180 VA	1	20 A	Receptacle KITCHEN 108	30
31	Receptacle KITCHEN 108	20 A	1	1080...	180 VA			1	20 A	Receptacle KITCHEN 108	32
33	Receptacle KITCHEN 108	20 A	1		864 VA	180 VA		1	20 A	Receptacle KITCHEN 108	34
35	Other	20 A	1			792 VA	180 VA	1	20 A	Receptacle KITCHEN 108	36
37	Receptacle KITCHEN 108	20 A	1	180 VA	180 VA			1	20 A	Receptacle KITCHEN 108	38
39	WASHER LAUNDRY 119	20 A	1		864 VA	968 VA		1	20 A	Lighting BUNK ROOMS	40
41	WASHER LAUNDRY 119	20 A	1			180 VA	768 VA	1	20 A	Lighting LOUNGE 106	42
43	Receptacle MECH 128	20 A	1	720 VA	363 VA			1	20 A	Lighting LOUNGE 106	44
45	Receptacle SHOWER 113	20 A	1		180 VA	870 VA		1	20 A	Lighting CAPTAIN 101	46
47	Receptacle SHOWER 114	20 A	1			180 VA	180 VA	1	20 A	Receptacle SHOWER 115	48
49	Receptacle LAUNDRY 119	20 A	1	540 VA	1500...			2	30 A	DRYER LAUNDRY 119	50
51	DRYER LAUNDRY 119	30 A	2		1500...	1500...		--	--	--	52
53	--	--	--	--	--	1500...	720 VA	1	20 A	Receptacle LOUNGE 106	54
55	Spare	20 A	1	0 VA							56
57	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	58
59	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	62
63	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	64
65	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	66
Total Load:				11523 VA	13406 VA	12360 VA					
Total Amps:				96 A	113 A	104 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	2837 VA	100.00%	2837 VA	
Other	3252 VA	100.00%	3252 VA	Total Conn. Load: 37289 VA
Receptacle	31128 VA	66.06%	20564 VA	Total Est. Demand: 26725 VA
Autre	72 VA	100.00%	72 VA	Total Conn.: 104 A
				Total Est. Demand: 74 A

Notes:

Branch Panel: MP

Location: ELEC 129
 Supply From: MDP
 Mounting: Surface
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating:
 Mains Type:
 Mains Rating: 125 A
 MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	EVAPORATIVE COOLER APPARATUS BAY #2-...	20 A	1	1920...	1656...			1	20 A	VEHICLE EXHAUST APPARATUS BAY #2-2...	2
3	EVAPORATIVE COOLER APPARATUS BAY #2-...	20 A	1		1920...	2912...		2	40 A	CU-1 CONDENSING UNIT	4
5	CU-3 CONDENSING UNIT	30 A	2			2496...	2912...	--	--	--	6
7	--	--	--	2496...	2496...			2	30 A	CU-2 CONDENSING UNIT	8
9	CU-4 CONDENSING UNIT	20 A	2		1144...	2496...		--	--	--	10
11	--	--	--	--	--	1144...	1144...	2	20 A	ERV-1 MECH 128	12
13	GAS FURNACE MECH 128	20 A	1	1200...	1144...			--	--	--	14
15	GF-2 GAS FURNACE MECH 128	20 A	1		1200...	864 VA		1	20 A	EF-1 EXHAUST FAN	16
17	EF-5 EXHAUST FAN	20 A	1			386 VA	1656...	1	20 A	VEHICLE EXHAUST APPARATUS BAY #2-2...	18
19	VEHICLE EXHAUST APPARATUS BAY #2-2...	20 A	1	1656...	1656...			1	20 A	VEHICLE EXHAUST APPARATUS BAY #2-2...	20
21	Spare	20 A	1		0 VA						22
23	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	1005...			2	20 A	FC-5 FAN COIL MECH 128	26
27	Spare	20 A	1		0 VA	1005...		--	--	--	28
29	Spare	20 A	1			0 VA					30
Total Load:				15229 VA	11541 VA	9737 VA					
Total Amps:				129 A	98 A	81 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Cooling	31 VA	100.00%	31 VA	
HVAC	20969 VA	100.00%	20969 VA	Total Conn. Load: 36506 VA
Other	15152 VA	100.00%	15152 VA	Total Est. Demand: 36506 VA
Receptacle	360 VA	100.00%	360 VA	Total Conn.: 101 A
				Total Est. Demand: 101 A

Notes:

Branch Panel: PP2

Location: ELEC 129
 Supply From: MDP
 Mounting: Surface
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating:
 Mains Type:
 Mains Rating: 225 A
 MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Lighting	20 A	1	408 VA	520 VA			1	20 A	Lighting - Exterior	2
3	Receptacle APPARATUS BAY #1 130	20 A	1		180 VA	1264...		1	20 A	Lighting APPARATUS BAYS	4
5	OVERHEAD DOOR	20 A	1			1012...	1012...	1	20 A	OVERHEAD DOOR	6
7	OVERHEAD DOOR	20 A	1	1012...	1905...			2	20 A	SCR-2 APPARATUS BAY #1 130	8
9	Receptacle APPARATUS BAY #3 132	20 A	1		900 VA	1905...		--	--	--	10
11	Receptacle APPARATUS BAY #3 132	20 A	1			900 VA	1000...	1	20 A	CORD REEL	12
13	SCR 2 IN APPARATUS BAY #3 132	25 A	2	1945...	900 VA			1	20 A	Receptacle APPARATUS BAY #1 130	14
15	--	--	--	--	--	1945...	1000...	1	20 A	CORD REEL	16
17	OVERHEAD DOOR	20 A	1			1012...	1012...	1	20 A	OVERHEAD DOOR	18
19	CORD REEL	20 A	1	1000...	720 VA			1	20 A	Receptacle MECH 128	20
21	OVERHEAD DOOR	20 A	1		1012...						22
23											24
25											26
27	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42
Total Load:				8410 VA	8206 VA	5948 VA					
Total Amps:				73 A	71 A	50 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	1712 VA	100.00%	1712 VA	
Lighting - Exterior	480 VA	125.00%	600 VA	Total Conn. Load: 22563 VA
Motor	6072 VA	100.00%	6072 VA	Total Est. Demand: 22034 VA
Other	0 VA	0.00%	0 VA	Total Conn.: 63 A
Power	3000 VA	100.00%	3000 VA	Total Est. Demand: 61 A
Receptacle	11299 VA	94.25%	10650 VA	

Notes:

Branch Panel: PP3

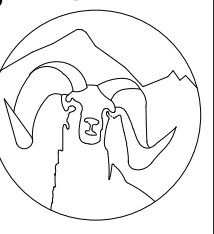
Location: SHOP 136
 Supply From: MDP
 Mounting: Surface
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating:
 Mains Type:
 Mains Rating: 225 A
 MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Receptacle SHOP 136	20 A	1	900 VA	540 VA			1	20 A	Receptacle BUNKER GEAR-1 134-1	2
3	Receptacle FITNESS-1 133-1	20 A	1		180 VA	180 VA		1	20 A	Receptacle FITNESS-1 133-1	4
5	Receptacle FITNESS-1 133-1	20 A	1			180 VA	180 VA	1	20 A	Receptacle FITNESS-1 133-1	6
7	Receptacle FITNESS-1 133-1	20 A	1	360 VA	180 VA			1	20 A	Receptacle FITNESS-1 133-1	8
9	Receptacle FITNESS-1 133-1	20 A	1		180 VA	180 VA		1	20 A	Receptacle FITNESS-1 133-1	10
11	SURFACE RACEWAY SHOP 136	20 A	1			1200...	1200...	1	20 A	SURFACE RACEWAY SHOP 136	12
13	SURFACE RACEWAY SHOP 136	20 A	1	0 VA	3000...			2	50 A	WELDER SHOP 136	14
15	SCR-1 SHOP 136	25 A	2		1945...	3000...		--	--	--	16
17	--	--	--	--	--	--	--	--	--	--	18
19	Lighting Room 133-2, 134-2, 200	20 A	1	818 VA	320 VA			1	20 A	Motor	20
21	Receptacle ATTIC 200	20 A	1		900 VA	1788...		3	20 A	FC-1 BUNKER GEAR-2 134-2	22
23	HP-1 EXTERIOR HEAT PUMP	20 A	3			1941...	1788...	--	--	--	24
25	--	--	--	1941...	1788...			--	--	--	26
27	--	--	--	--	--	1941...	40 VA	2	20 A	FC-2 FAN COIL	28
29	FC-3 FAN COIL BUNKER GEAR-2 134-2	20 A	2		40 VA	66 VA		40 VA	40 VA	--	30
31	--	--	--	40 VA	66 VA			2	20 A	FC-4 SHOP 136	32
33	EXTRACTOR BUNKER GEAR-1 134-1	20 A	2		2042...	66 VA		--	--	--	34
35	--	--	--	--	--	2042...		--	--	--	36
37	EF-2 EXHAUST FAN BUNKER GEAR-2 134-2	20 A	1	100 VA				1	20 A	EF-4 EXHAUST FAN HOSE TOWER 135	38
39	EF-3 EXHAUST FAN ATTIC 200	20 A	1		100 VA	100 VA					40
41											42
43											44
45											46
47											48
49											50
51											52
53											54
Total Load:				10033 VA	12602 VA	11567 VA					
Total Amps:				84 A	107 A	98 A					



POWER FOR ENERGY RECOVERY VENTILATOR SCHEDULE

TYPE MARK	SERVICE	LOCATION	SUPPLY FAN				EXHAUST FAN				ELECTRICAL		MANUFACTURER	MODEL #	Panel	Circuit Number		
			MOTOR HP	TYPE	VOLTS	PHASE	FREQUENCY	MOTOR HP	TYPE	VOLTS	PHASE	FREQUENCY					MCA (A)	MOCP (A)
ERV-1	VENTILATION	MECHANICAL ROOM	0.5	ECM	230	1	60 Hz	0.5	ECM	230 V	1	60 Hz	11 A	15 A	SOLER&PALUA	TRCE800-230	MP	12,14

POWER FOR FAN COIL SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING (BTU/H)	NOM. HEATING	SUPPLY FAN MOTOR POWER	ELECTRICAL				UNIT WEIGHT	MANUFACTURER	MODEL #	Panel	Circuit Number	
					VOLTS	PHASE	FREQUENCY	MCA (A)						MOCP (A)
FC-1	OUTSIDE AIR	-	5 KW	1/6	208 V	3	60 Hz	14.90 A	20 A	118.00 lb	MARKEL	F3G7205	PP3	22,24,26
FC-2	FITNESS	12000	13500 BTU/H	-	230 V	2	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFPY012HM142A	PP3	28,30
FC-3	BUNKER GEAR	15000	17000 BTU/H	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFPY015HM142A	PP3	29,31
FC-4	SHOP	15000	17000 BTU/H	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFPY015HM142A	PP3	32,34
FC-5	KITCHEN MAKEUP AIR	35000	-	1	208 V	1	60 Hz	9.66 A	15 A	230.90 lb	TRANE	BCVD036B1	MP	28,28

POWER FOR EXHAUST FAN SCHEDULE

TYPE MARK	SERVICE	LOCATION	EXHAUST FAN MOTOR POWER	MOTOR		ELECTRICAL FREQUENCY	MANUFACTURER	MODEL #	Panel	Circuit Number	
				EXHAUST FAN SPEED (RPM)	VOLTS						PHASE
EF-1	KITCHEN HOOD	ROOF	1/3 HP	1750	115 V	1	60 Hz	S&P USA	STXDE10	MP	16
EF-2	BUNKER GEAR	CEILING	1/6 HP	740	115 V	1	60 Hz	S&P USA	FF200S	PP3	37
EF-3	SHOP	CEILING	1/5 HP	648	115 V	1	60 Hz	S&P USA	FF400S	PP3	39
EF-4	STAIR TOWER	CEILING	2/3 HP	955	115 V	1	60 Hz	S&P USA	FF1500S	PP3	40
EF-5	CRAWL SPACE	INLINE	75 W	-	115 V	1	60 Hz	FANTECH	FG-4XL	MP	17
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP	-	120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	20
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP	-	120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	2
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP	-	120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	18
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP	-	120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	19

POWER FOR GAS FURNACE SCHEDULE

MARK	SERVICE	NOM. COOLING CAPACITY (MBH)	SUPPLY FAN MOTOR POWER	ELECTRICAL				MANUFACTURER	MODEL #	Panel	Circuit Number	
				VOLTS	PHASE	FREQUENCY	MCA (A)					MOCP (A)
GF-1	KITCHEN,LIVING, DINING, OFFICES	36	1	120 V	1	60 Hz	14 A	15 A	TRANE	4TXCD10DS3	MP	13
GF-2	BUNK ROOMS & ADJACENT	22.5	3/4	120 V	1	60 Hz	8 A	15 A	TRANE	4PXCBU36BS3	MP	15
GF-12												
GF-13												
GF-14												
GF-15												
GF-16												
GF-17												
GF-18												
GF-19												
GF-21												
GF-22												

POWER FOR AIR CONDITIONING EQUIPMENT SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (BTU/HR)	NOM. HEATING CAPACITY (BTU/HR)	ELECTRICAL				MANUFACTURER	MODEL #	Panel	Circuit Number	POWERED FROM
				VOLTS	PHASE	FREQUENCY	MCA (A)					
CU-4	IT ROOM	12000	-	208 V	1	60 Hz	11 A	MITSUBISHI ELECTRIC	PUY-A12NK47	MP	9,11	
SS-1	IT ROOM	12000	-	208 V	1	60 Hz	1 A	MITSUBISHI ELECTRIC	IPKA-A12HA77			CU-4 POWERS UNIT

POWER FOR GAS FIRED INFARED HEATER SCHEDULE

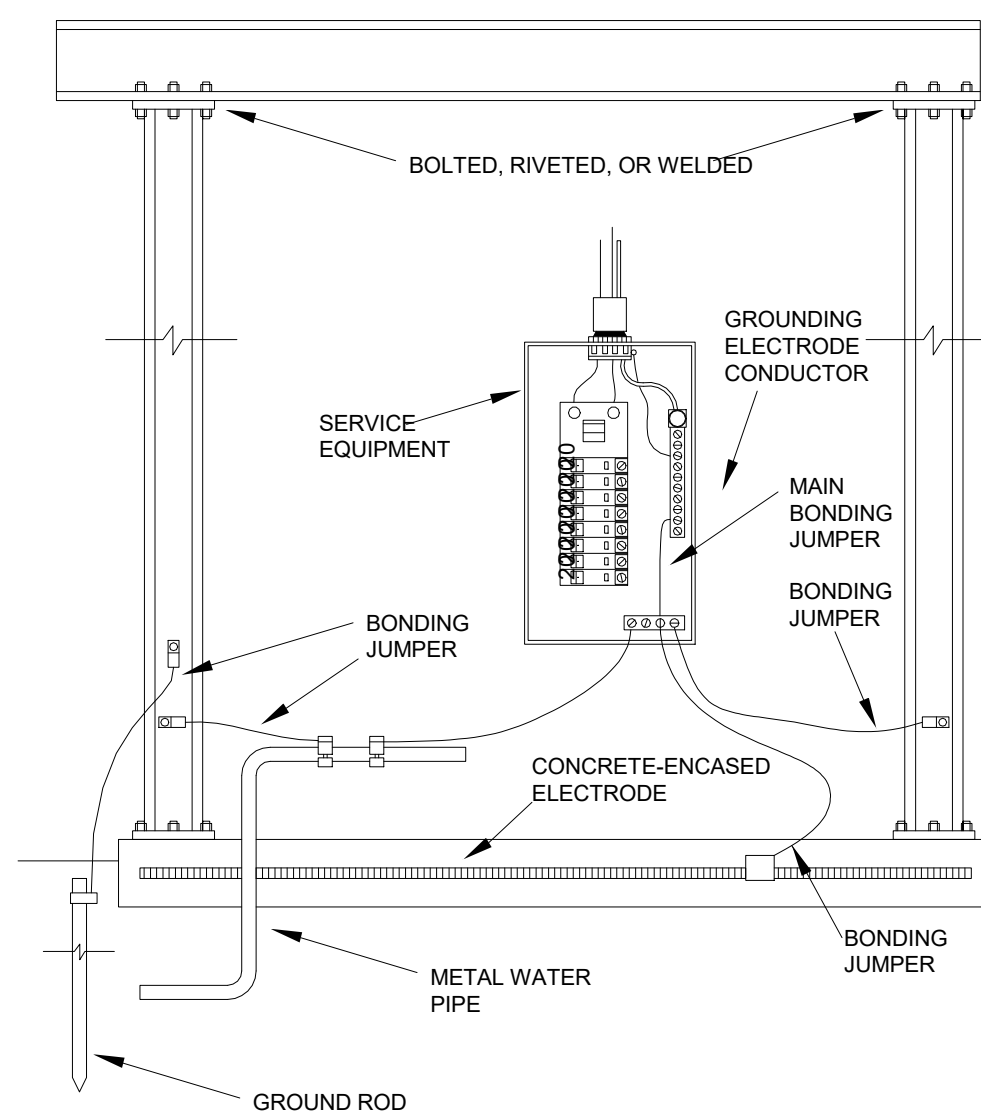
MARK	SERVICE	ELECTRICAL				MANUFACTURER	MODEL #	Panel	Circuit Number		
		VOLTS	PHASE	FREQUENCY	MCA (A)					MOCP (A)	MOTOR HP
IR-1	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	11
IR-2	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	9
IR-3	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	11
IR-4	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	14

POWER FOR AIR COOLED CONDENSING UNIT

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (TONS)	ELECTRICAL				MANUFACTURER	MODEL #	Panel	Circuit Number	
			VOLTS	PHASE	FREQUENCY	MCA (A)					MOCP (A)
CU-1	GF-1	4 TONS	230 V	1	60 Hz	28 A	45 A	TRANE	4TRR7048B	MP	4,6
CU-2	GF-2	3 TONS	230 V	1	60 Hz	24 A	35 A	TRANE	4TRR7036A	MP	8,10
CU-3	FC-5	3 TONS	230 V	1	60 Hz	24 A	35 A	TRANE	4TRR7036A	MP	5,7

POWER FOR EVAPORATIVE COOLER SCHEDULE

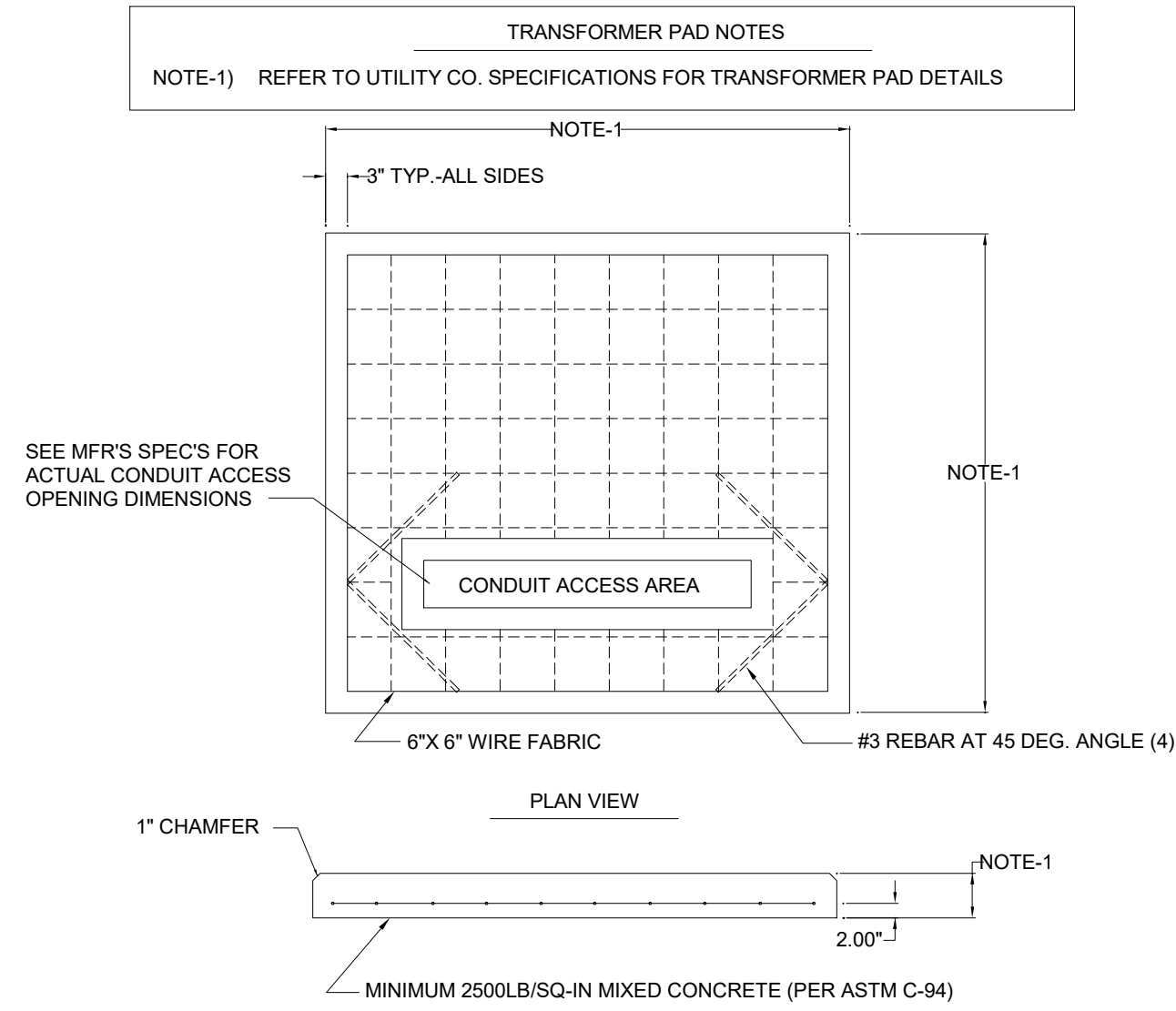
MARK	ELECTRICAL			MOTOR HP	MANUFACTURER	MODEL #	Panel	Circuit Number
	VOLTS	PHASE	FREQUENCY					
EC-1	120 V	1	60 Hz	1	PHOENIX	PH6802C	MP	1
EC-2	120 V	1	60 Hz	1	PHOENIX	PH6802C	MP	3



GROUNDING ELECTRODE SYSTEM DETAIL

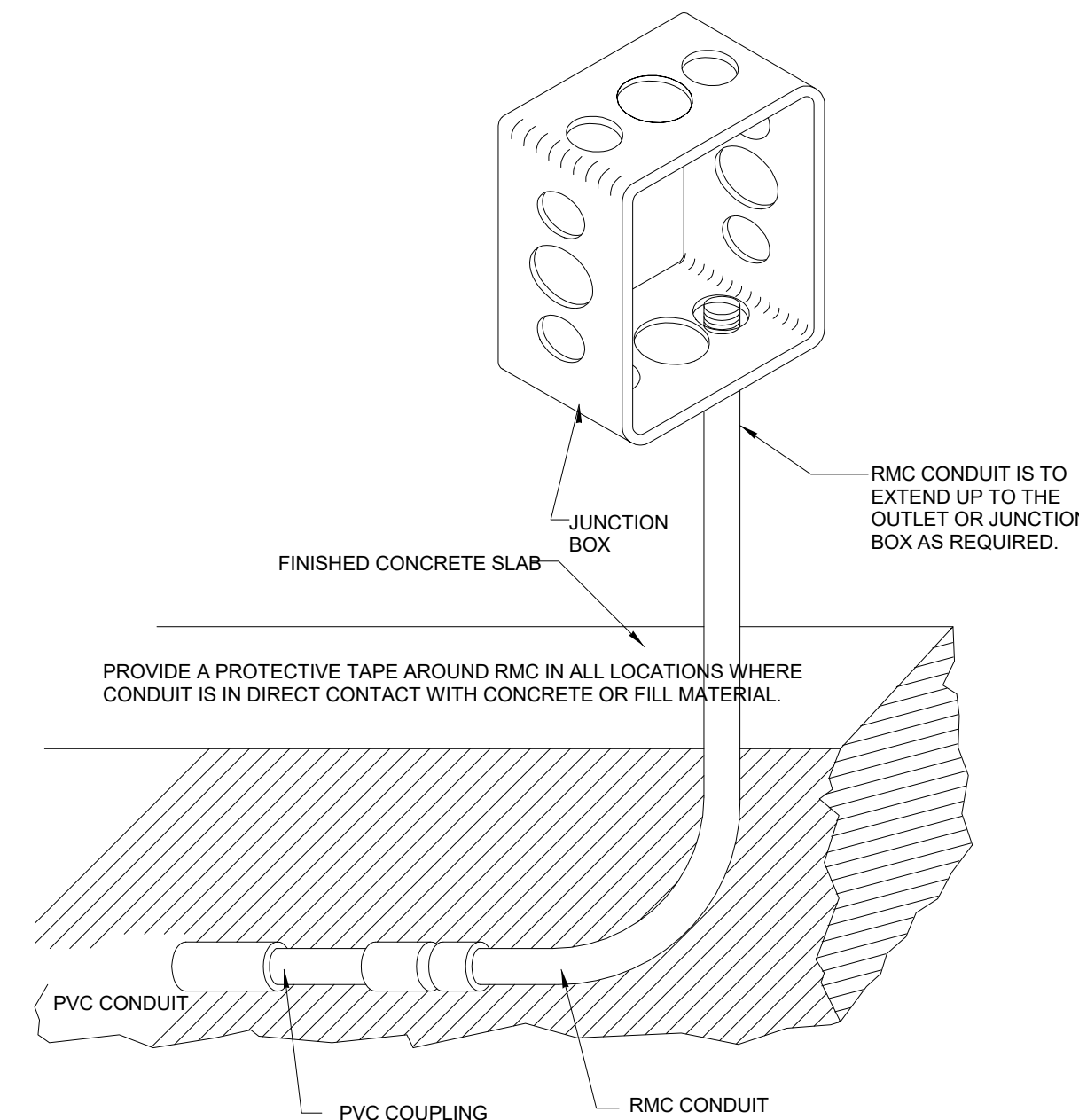
NOT TO SCALE

- NOTES:
- SEE ONE LINE DIAGRAM FOR GROUNDING CONDUCTOR SIZES REQUIRED.
 - PROVIDE A MINIMUM OF TWO SEPARATE GROUND SOURCES, U.O.N. ON ONE LINE DIAGRAM.



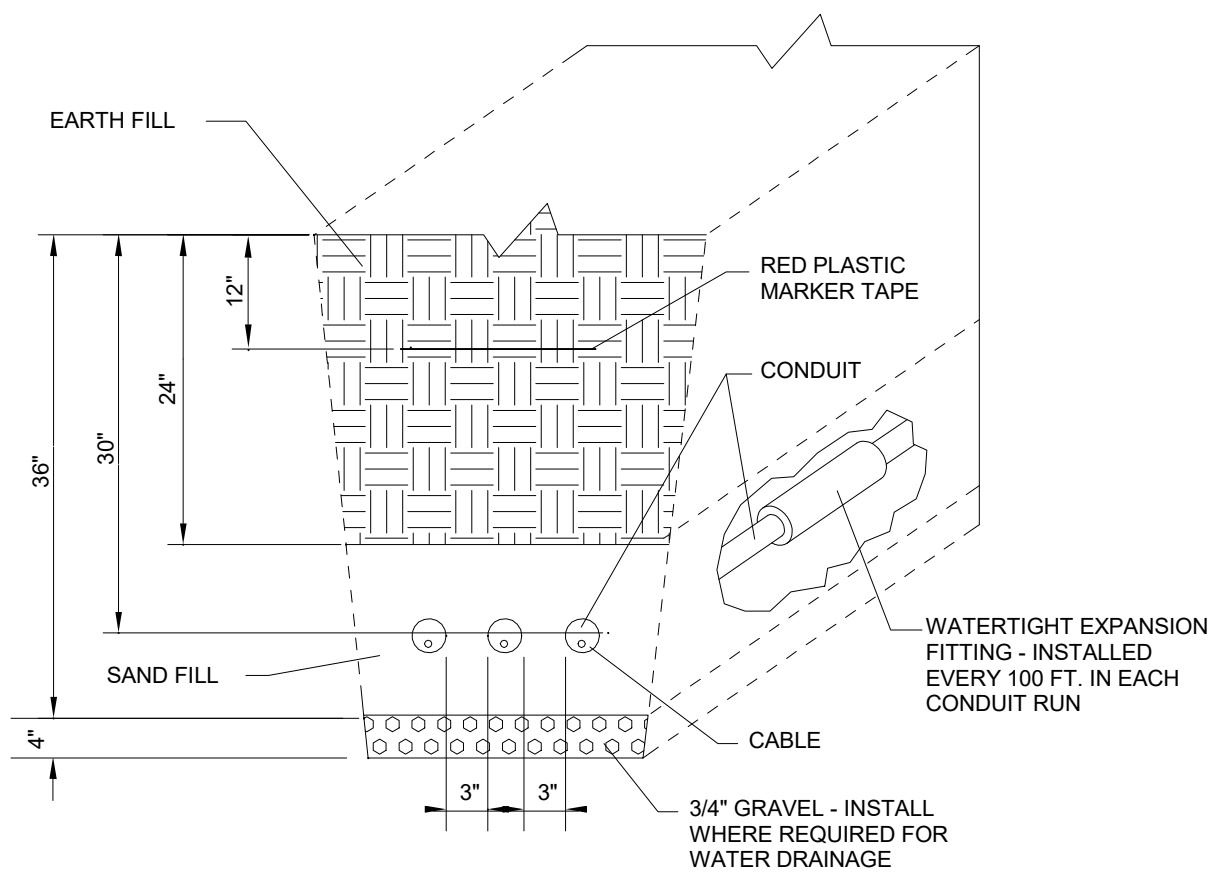
DISTRIBUTION TRANSFORMER BASE DETAIL

NOT TO SCALE



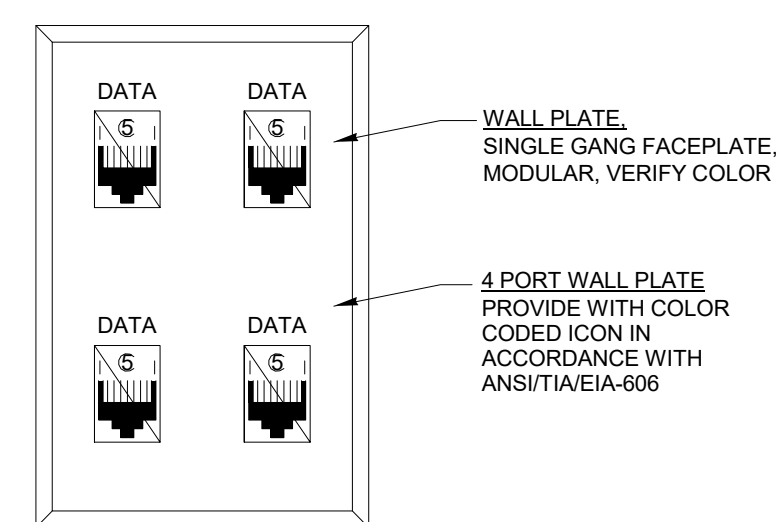
INSTALLATION OF PVC CONDUIT EMERGING FROM CONCRETE SLAB

NOT TO SCALE



INSTALLATION OF UNDERGROUND CONDUITS

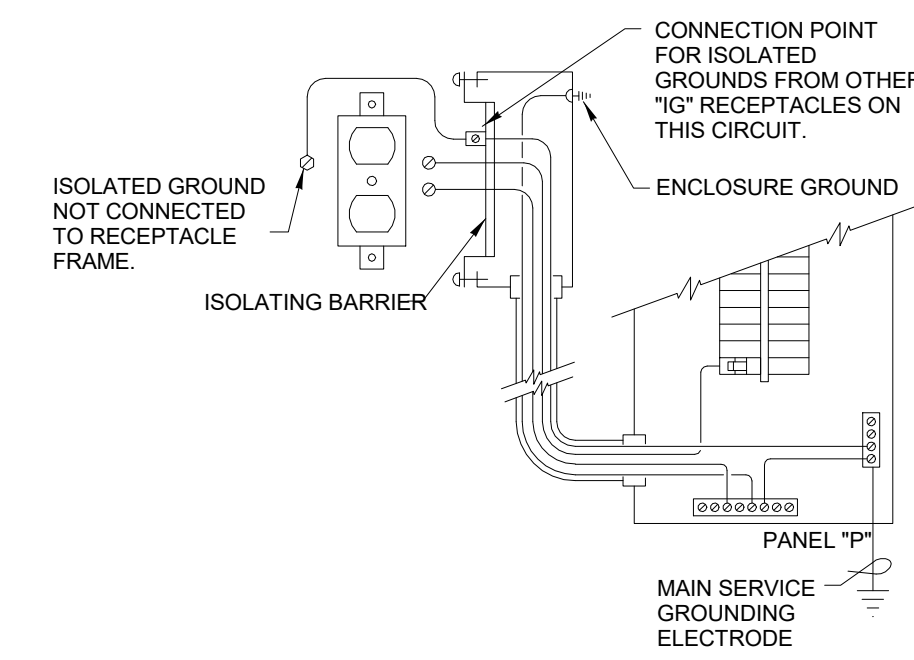
NOT TO SCALE



- NOTES:
- PROVIDE ALL DEVICES U.L. LISTED FOR USE IN CATEGORY 6 INSTALLATIONS.
 - PROVIDE INSTALLATION AND LABELLING IN ACCORDANCE WITH ANSITIA/EIA STANDARDS 568A AND 606.

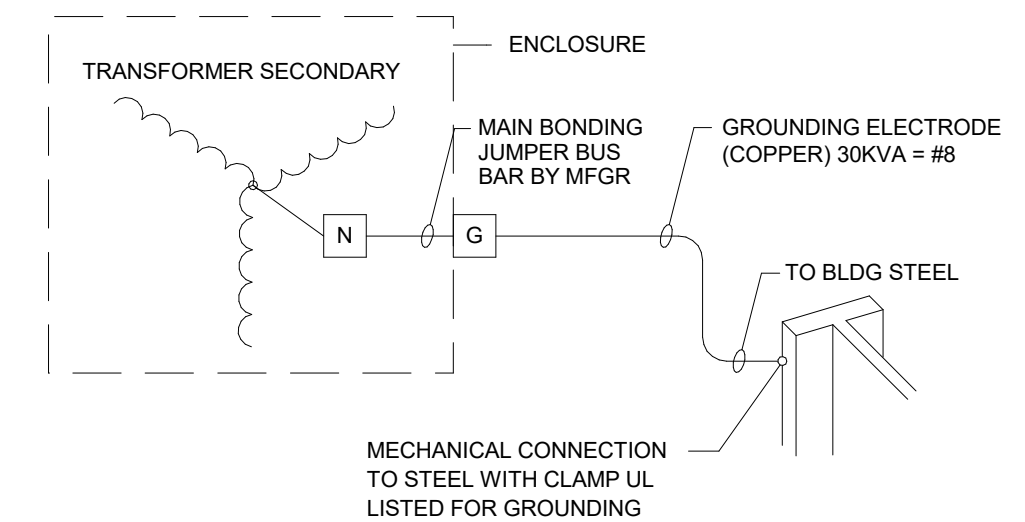
TYPICAL TELECOMMUNICATIONS OUTLET

NOT TO SCALE



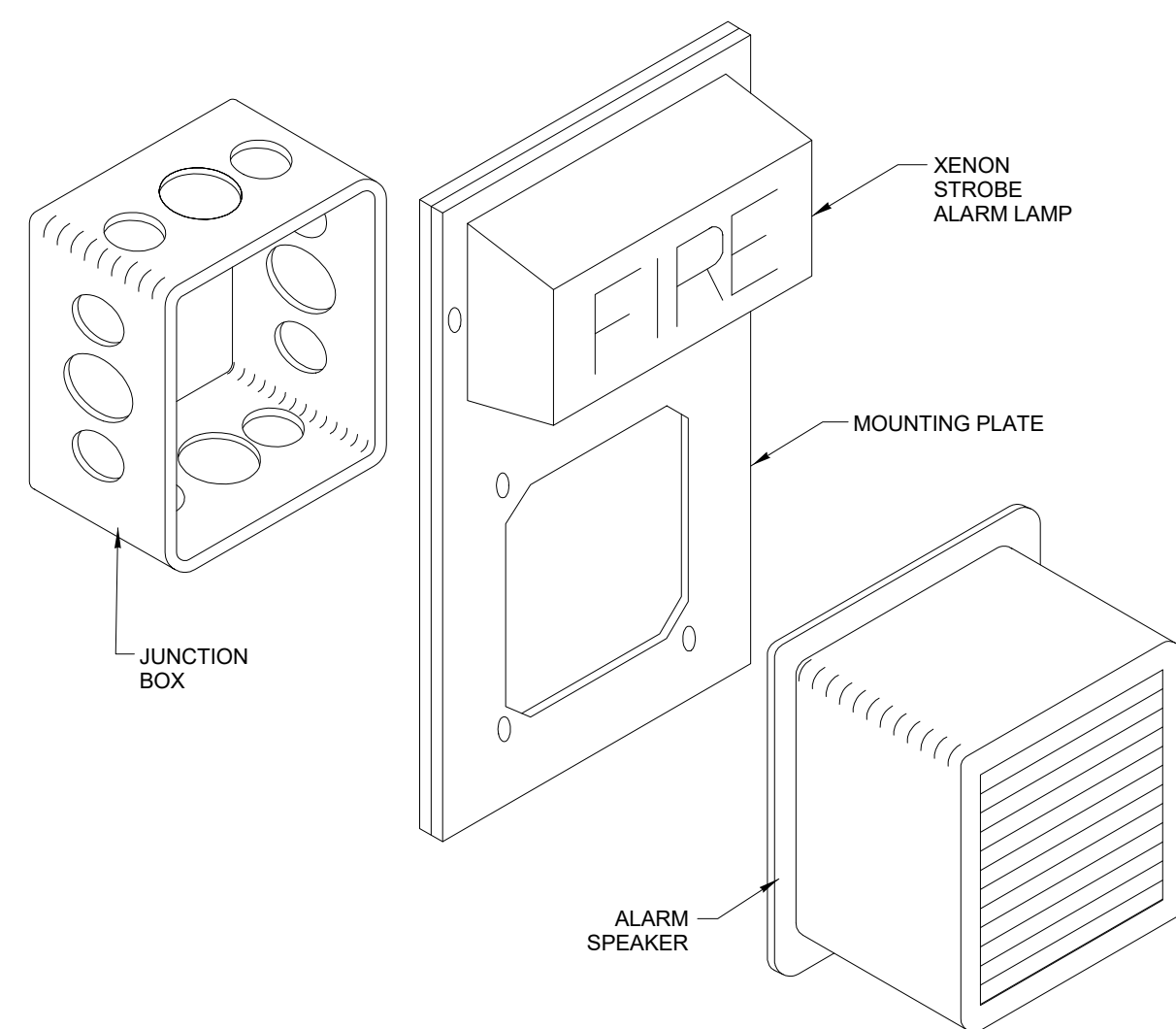
ISOLATED GROUND RECEPTACLE

NOT TO SCALE:



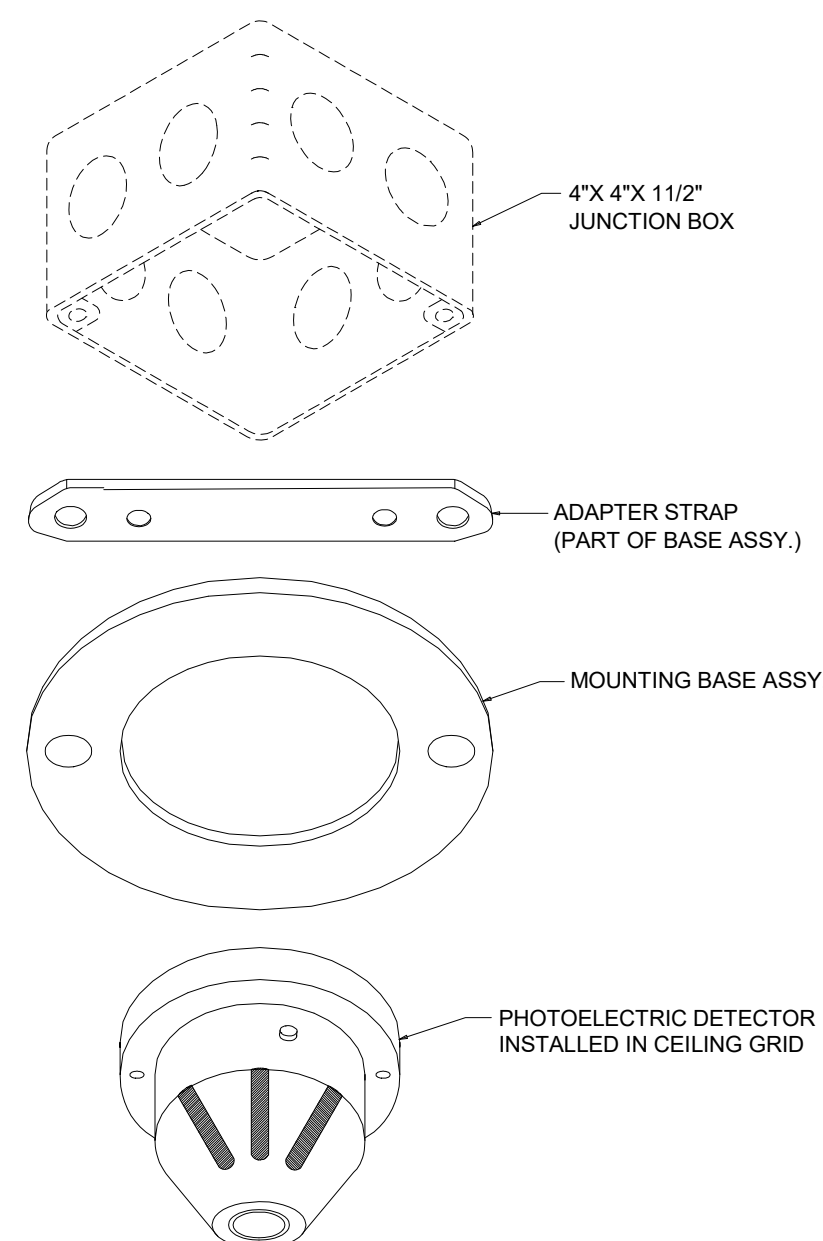
TRANSFORMER GROUNDING DETAIL

NOT TO SCALE



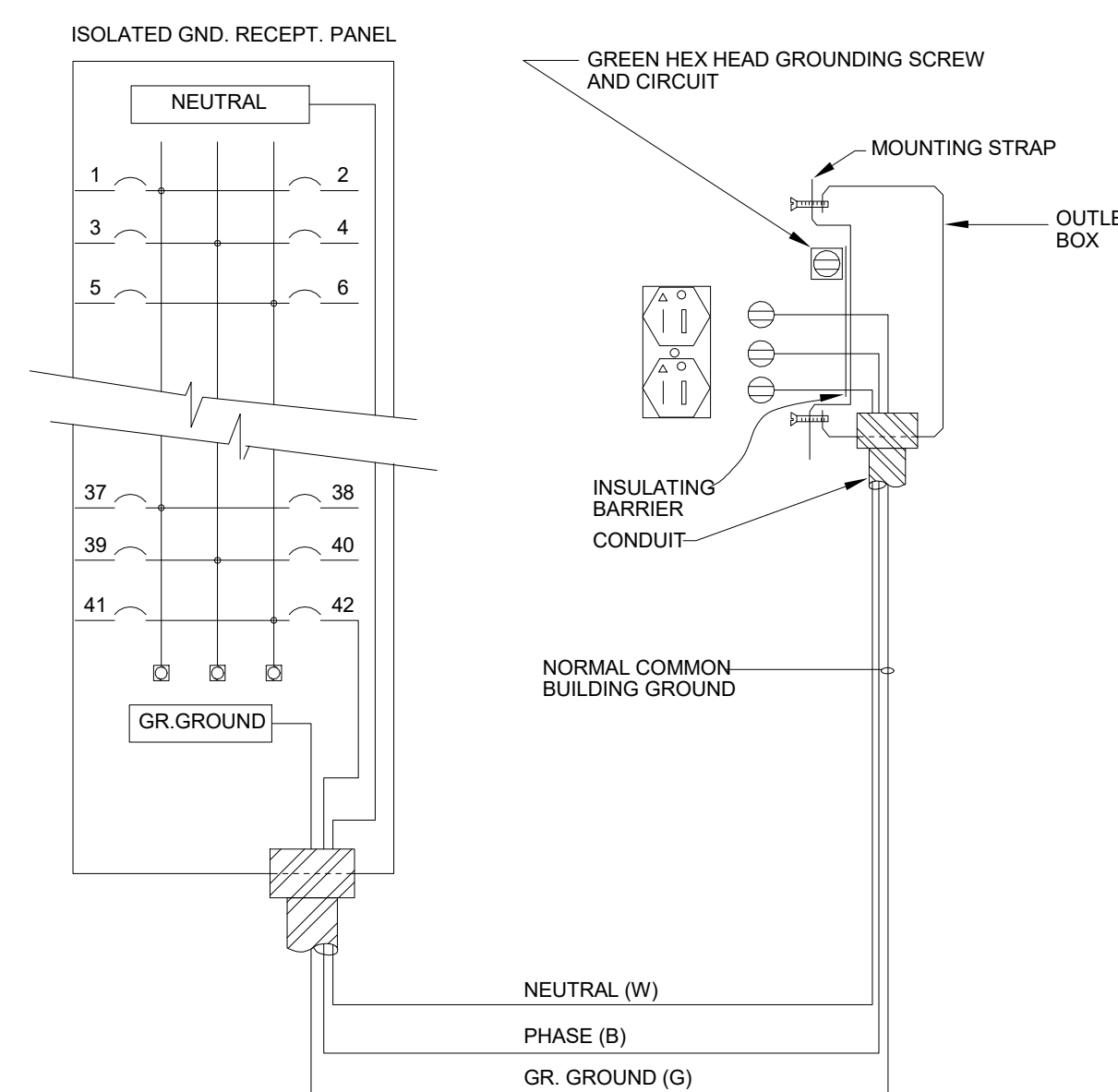
FIRE ALARM SPEAKER/STROBE LIGHT MOUNTING DETAIL

NOT TO SCALE



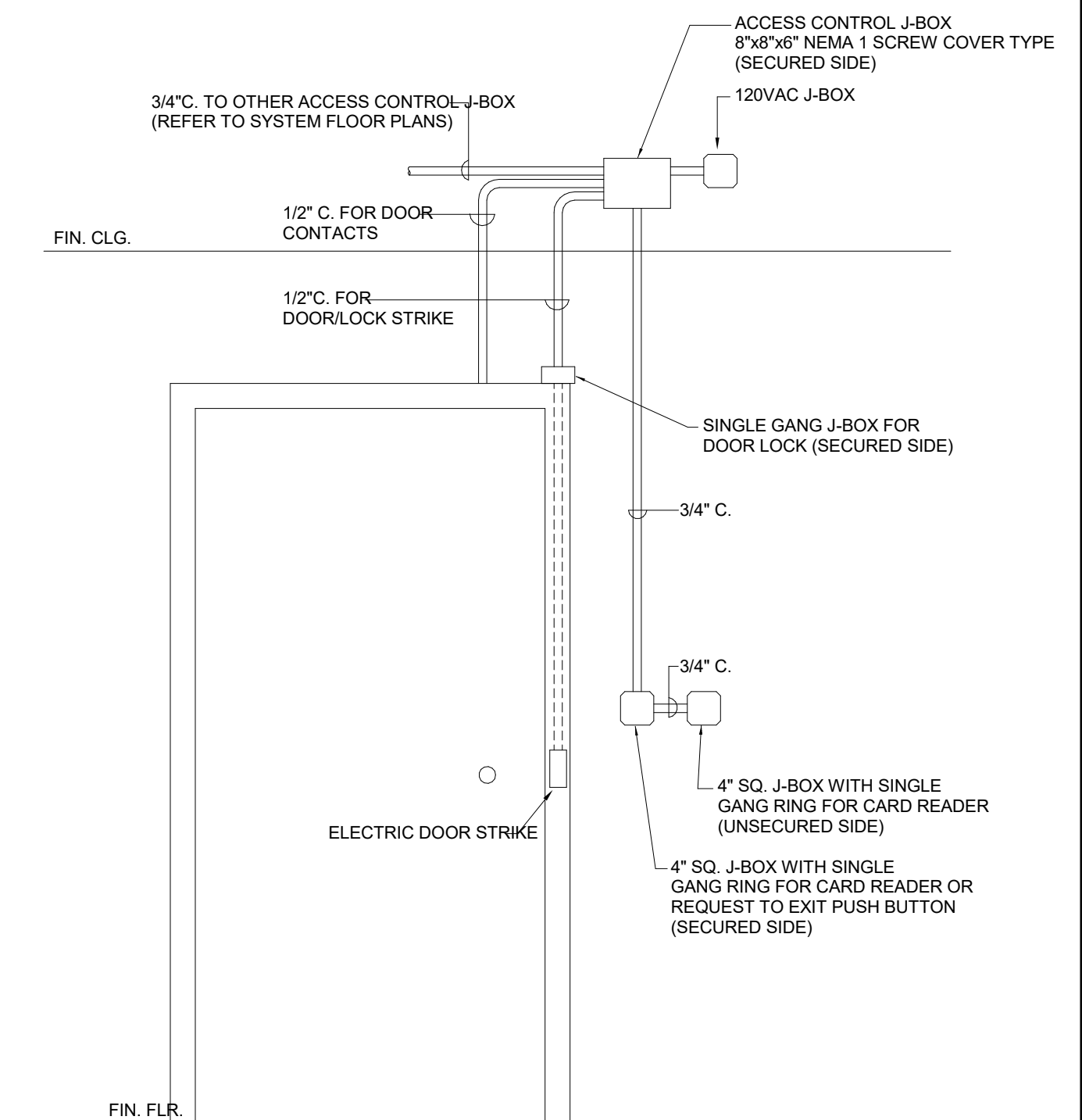
TYPICAL SMOKE DETECTOR MOUNTING DETAIL

NOT TO SCALE



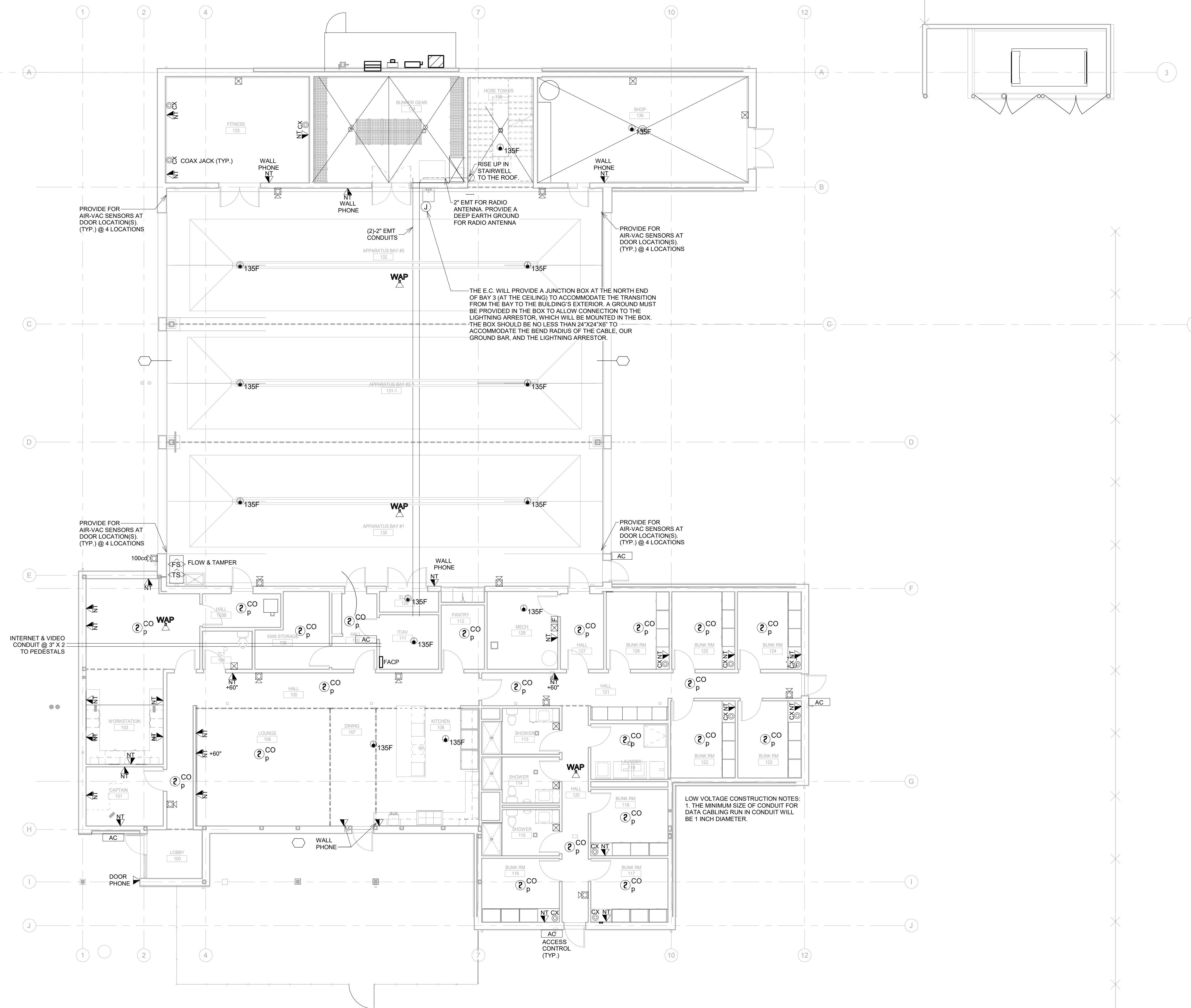
TYPICAL RECEPTACLE WIRING DIAGRAM

NOT TO SCALE

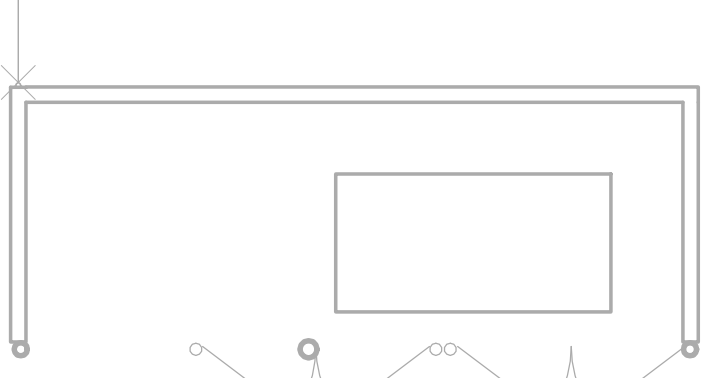


ACCESS CONTROL CONDUIT FOR CARD READER SYSTEM USING STRIKE DETAIL

NOT TO SCALE



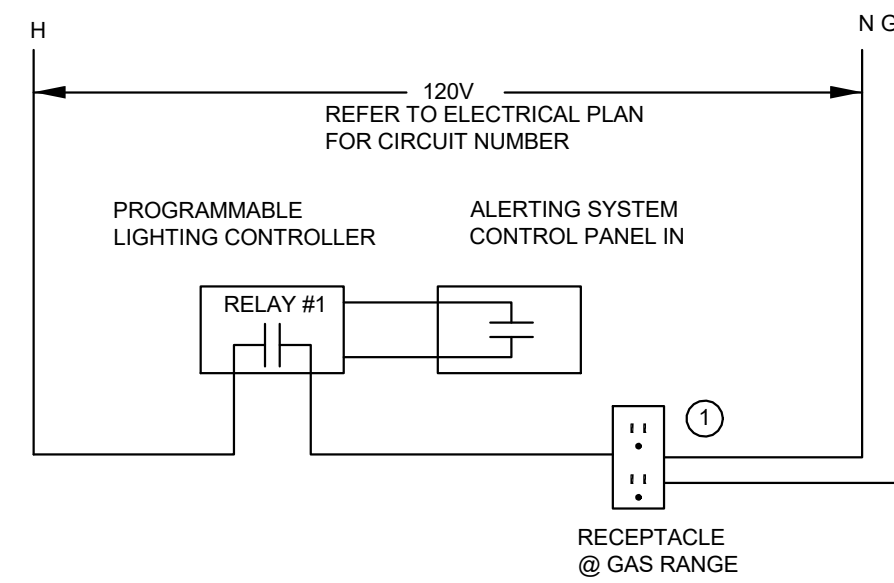
1 SYSTEMS - FLOOR PLAN
1/8" = 1'-0"



NOTES REFERENCED ON THE PLANS:

- DR (DORM REMOTE):**
RECEIVE HOFFMAN BOX - PART 43050 CAT #A-SE10X8X4 FROM WESTNET. MOUNT CENTER LINE OF BOX AT 48" AFF. CENTER BOX ON HEADBOARD OF BED. RECESS IN WALL 1/4" BELOW SHEETROCK. PROVIDE 3 - 3/4" EMT CONDUITS TO THE SPACE ABOVE THE ACCESSIBLE CEILING WITH BUSHINGS AND PULL STRINGS. WIRING SHALL BE DONE BY WESTNET.
- DL (DORM LIGHT):**
NO WORK BY ELECTRICAL SUB. LIGHT IS LINE POWERED THROUGH CAT 5 CABLE. WIRING BY WESTNET.
- SC1 (SATELLITE CONTROLLER):**
RECEIVE HOFFMAN BOX - PART 43050 CAT #A-SE10X8X4 FROM WESTNET. RECESS IN CEILING 1/4" ABOVE SHEETROCK. PROVIDE 2 - 3/4" EMT CONDUITS TO THE SPACE ABOVE THE ACCESSIBLE CEILING WITH BUSHINGS AND PULL STRINGS. WIRING SHALL BE DONE BY WESTNET.
- SC2 (SATELLITE CONTROLLER):**
BOX AND RACEWAYS NOT REQUIRED FOR ACCESSIBLE CEILING INSTALLATION. WIRING SHALL BE DONE BY WESTNET.
- SC1 (SATELLITE CONTROLLERS) & S (SATELLITE SPEAKER):**
RECEIVE HOFFMAN BOX - PART 43050 CAT #A-SE10X8X4 FROM WESTNET. MOUNT BOX ON UNDERSIDE OF TRUSS OR BAR JOIST. PROVIDE 1" EMT CONDUIT TO THE SIGNAL JUNCTION BOX AT THE CEILING OF BUNKER GEAR ROOM. WIRING SHALL BE DONE BY WESTNET.
- ASC (ALERT SYSTEM CABLES):**
PROVIDE TWO 2" EMT CONDUITS FOR THE ALERTING SYSTEM CABLES FROM THE IT ROOM TO THE TWO 6" X 12" X 12" JUNCTION BOXES ON THE UNDER SIDE OF THE ROOF TRUSSES.
- AC (APPLIANCE CONTROLLER); RB (RESET BUTTON):**
THE APPLIANCE CONTROLLER IS TO BE MOUNTED ABOVE THE CEILING. PROVIDE RECEPTACLE ABOVE THE CEILING FOR POWER. THE RESET BUTTON IS TO MOUNTED IN A SINGLE GANG DEEP BOX AT 48" AFF. PROVIDE A 1" CONDUIT TO THE SPACE ABOVE THE CEILING. SEE GAS SOLENOID WIRING DIAGRAM ON THIS SHEET. SOLENOID VALVE WIRING SHALL BE DONE BY THE ELECTRICAL SUB-CONTRACTOR.
- VMS1 (VIDEO MESSENGER):**
PROVIDE A SINGLE GANG DEEP BOX AT 84" AFF. PROVIDE A 1" CONDUIT TO THE JUNCTION BOX AT THE CEILING OF THE APPARATUS BAY. WIRING TO BE DONE BY WESTNET.
- OS (OUTSIDE SPEAKER):**
PROVIDE A FLUSH SINGLE GANG DEEP BOX AT 10'-0" AFF FOR OUTSIDE SPEAKER. PROVIDE A 3/4" CONDUIT TO A 4" SQUARE BOX FOR THE OUTSIDE SATELLITE CONTROLLER (OSC) ABOVE THE ACCESSIBLE CEILING.
- SW (SPEAKER SWITCH):**
PROVIDE A SINGLE GANG DEEP BOX AT 48" AFF. PROVIDE A 3/4" CONDUIT TO THE SPACE ABOVE THE ACCESSIBLE CEILING. COORDINATE BOX LOCATION WITH WESTNET.
- KL (NIGHT LIGHT):**
PROVIDE A SINGLE GANG DEEP BOX FLUSH WITH CEILING. DEVICE, TRIM AND WIRING BY WESTNET. DB (DOOR BELL) -
- EB (EMERGENCY BUTTON):**
PROVIDE A SINGLE GANG DEEP BOX AT 48" AFF. PROVIDE A 3/4" CONDUIT TO THE SPACE ABOVE THE ACCESSIBLE CEILING. DEVICE, TRIM AND WIRING BY WESTNET.
- FSAS (ALERTING SYSTEM STROBE):**
RECEIVE HOFFMAN BOX PART #5741, CAT #A-SE8X8X4. MOUNT ON UNDERSIDE OF TRUSS OR BAR JOIST. PROVIDE 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARATUS BAY. WIRING TO BE DONE BY WESTNET.
- FSSL (FS STROBE LIGHT):**
RECEIVE CUSTOM BACK BOX FROM WESTNET. MOUNT BOX VERTICALLY IN WALL WITH TOP AT 6'-0" AFF. PROVIDE 3/4" EMT CONDUIT TO ALERTING SYSTEM STROBE (FSAS).
- TT (TURN-OUT TIMER) AND CI (COMPANY INDICATOR):**
PROVIDE A 4" SQUARE DEEP SINGLE GANG BOX MOUNTED AT 10'-0" AFF. PROVIDE 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARATUS BAY.
- HPS (HIGH POWER PAGING AMPLIFIER & SPEAKER):**
PROVIDE A 4" SQUARE SINGLE GANG BOX MOUNTED ON THE UNDERSIDE OF THE TRUSS OR BAR JOIST. PROVIDE A 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARATUS BAY.
- APR (4-POST RACK):**
ALERTING SYSTEM UPS (4) TO BE MOUNTED IN 4-POST EQUIPMENT RACK. ALERTING SYSTEM MASTER CONTROL UNIT TO BE MOUNTED IN 4-POST EQUIPMENT RACK.
- CR (CONTROL REMOTE):**
RECEIVE 12"X18"X6" HINGED COVER JUNCTION BOX FROM WESTNET. MOUNT ON WALL AT 48" AFF. CONTROL REMOTE CONTAINS 24V RELAYS FOR CONTROL OF ELECTRICAL DEVICES IN THE BUILDING SUCH AS THE GAS RANGE CONTROL CIRCUIT. WIRE CONTROL REMOTE RELAY CONTACTS TO PROGRAMMABLE LIGHTING CONTROLLER PER WIRING DIAGRAMS ON THE PLANS.
- VMS2 (VIDEO MESSENGER):**
PROVIDE A SINGLE GANG DEEP BOX AT 72" AFF. PROVIDE A 1" CONDUIT TO THE SPACE ABOVE THE ACCESSIBLE CEILING. WIRING TO BE DONE BY WESTNET.
- DHPA (HP AMPLIFIER):**
SEE ALERTING SYSTEM DRAWINGS FOR RACEWAY REQUIREMENTS.
- TT (TURN-OUT TIMER):**
PROVIDE A 4" SQUARE SINGLE GANG BOX MOUNTED @ 10' AFF. PROVIDE A 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARATUS BAY.

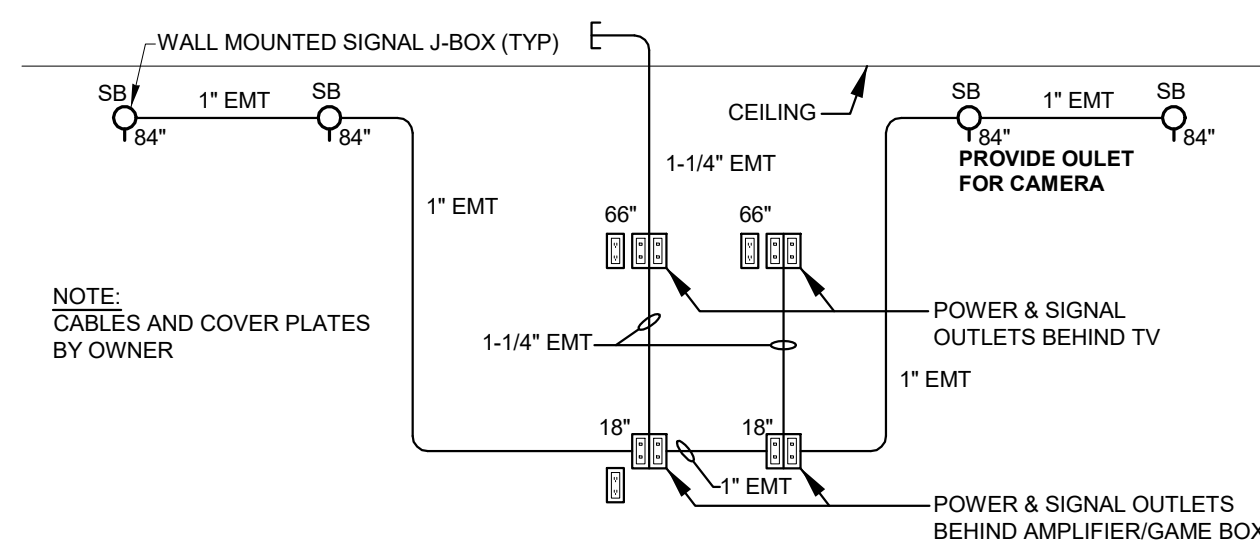
1 ALERTING SYSTEMS - FLOOR PLAN
1/8" = 1'-0"



GAS RANGE CONTROL WIRING DIAGRAM

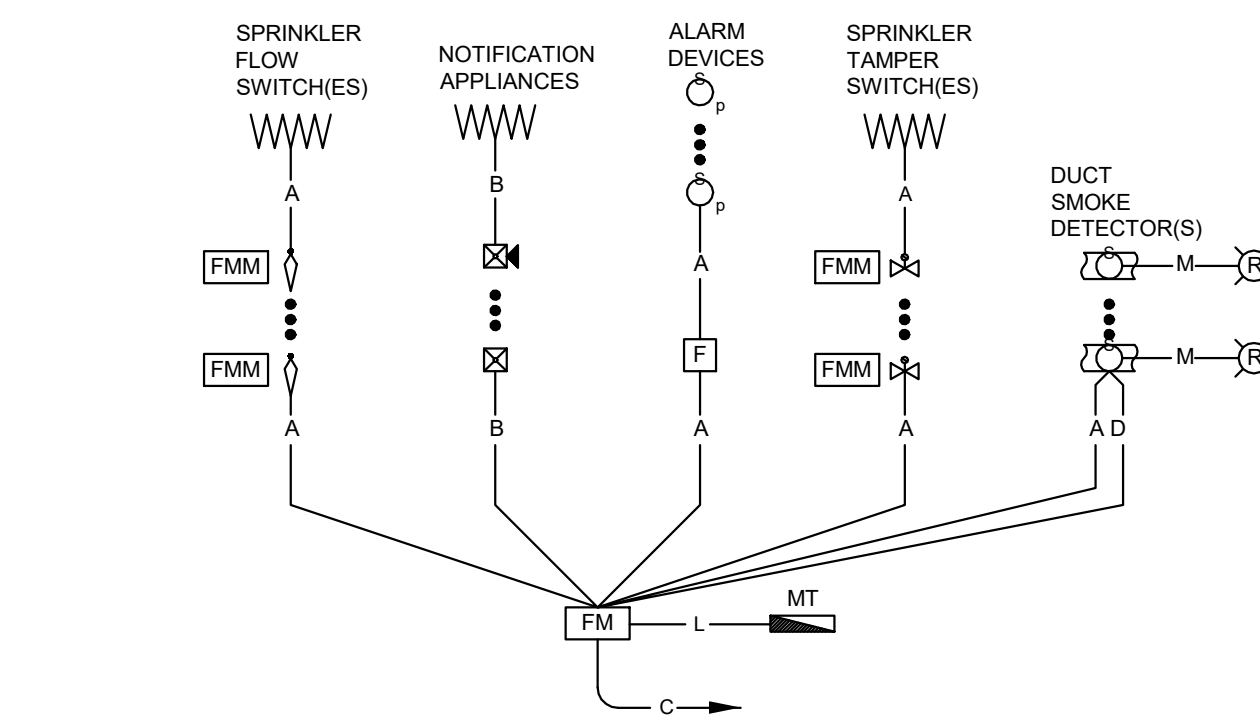
NO SCALE

1 CONTROL CIRCUIT FOR GAS RANGE TO BE DE-ENERGIZED BY ALERTING SYSTEM WHEN FIREMEN ARE ON A CALL TO PREVENT RANGE AUTO PILOT FROM CONTINUALLY LIGHTING WHEN GAS VALVE IS CLOSED.



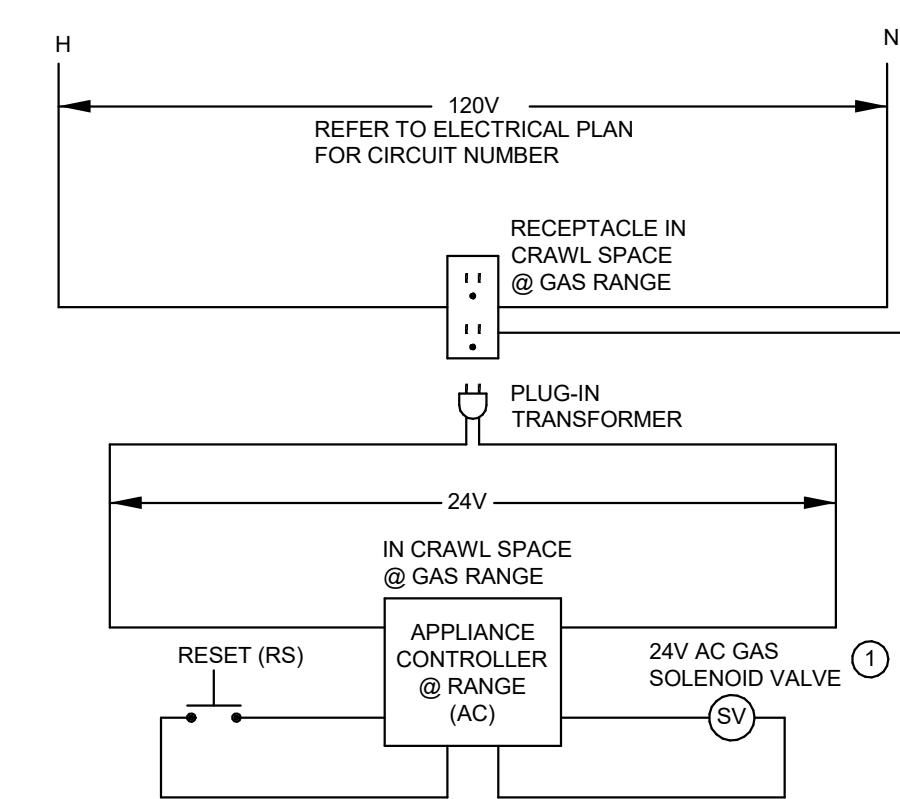
LOUNGE - TV/SURROUND SOUND

NO SCALE



FIRE ALARM SYSTEM RISER

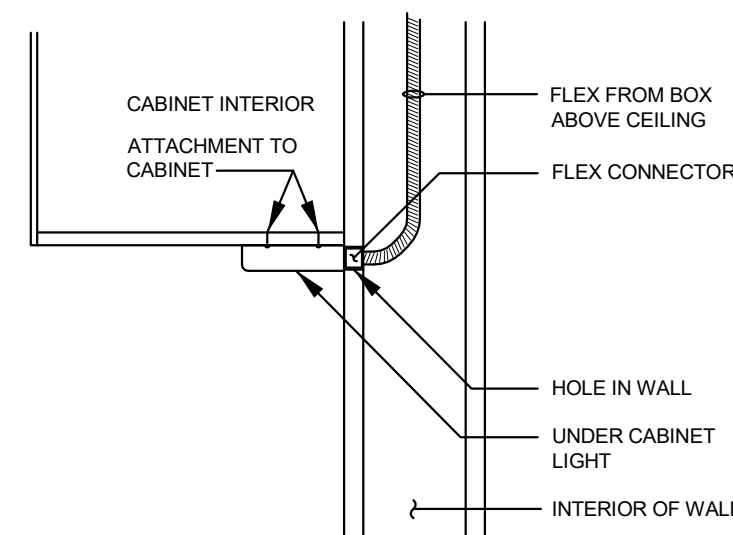
NO SCALE



GAS SOLENOID VALVE WIRING DIAGRAM

NO SCALE

1 GAS SOLENOID VALVE TO BE DE-ENERGIZED (CLOSED) BY ALERTING SYSTEM WHEN FIREMEN ARE ON A CALL.

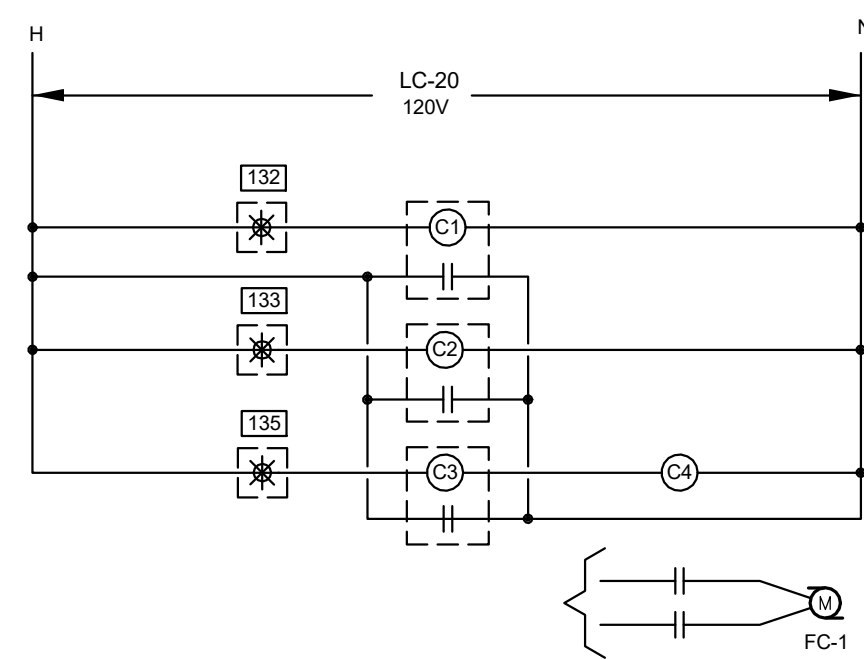


INSTALLATION DETAIL - TASK LIGHT

NO SCALE

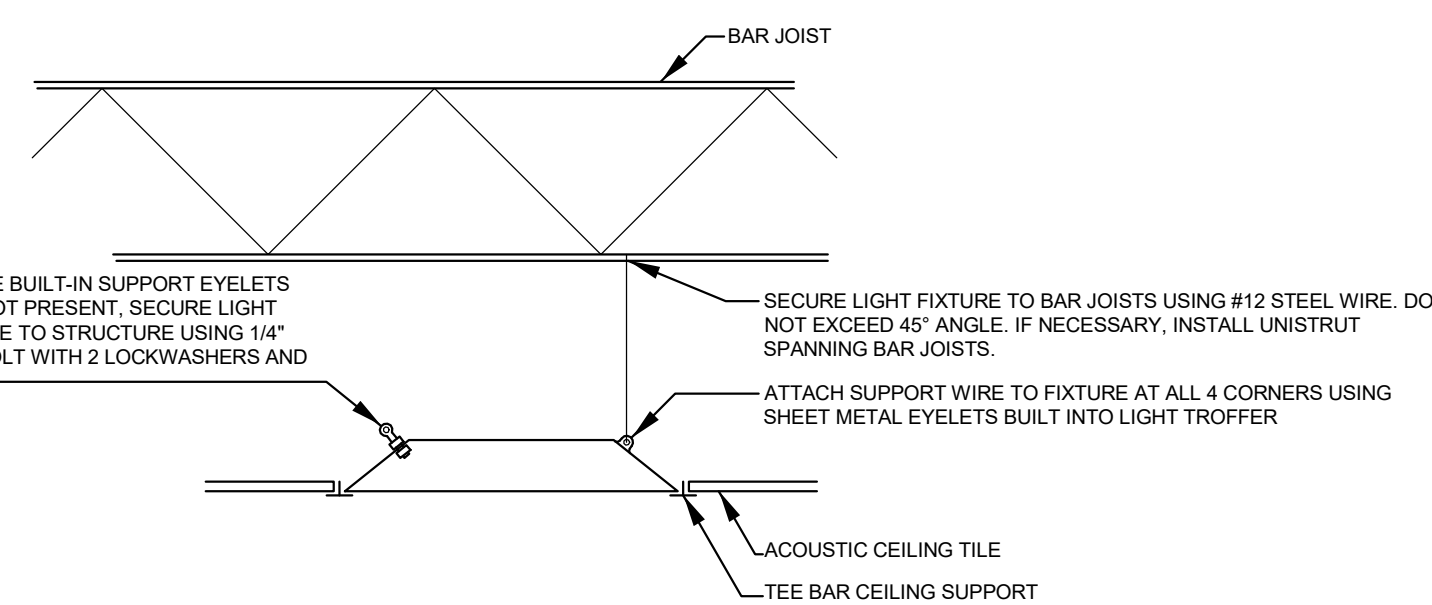
CONCEAL WIRING OF TASK LIGHTS AS FOLLOWS:

- CUT A HOLE IN THE WALL AT THE HEIGHT OF THE UNDER CABINET LIGHT LARGE ENOUGH TO ACCOMMODATE THE FLEX CONNECTOR.
- PULL 6" OF FLEX THROUGH THE WALL AND TERMINATE IT ON THE UNDER CABINET LIGHT.
- PUSH THE ASSEMBLY INTO THE WALL SO THAT THE FIXTURE IS AGAINST THE WALL AND THE FLEX AND CONNECTOR ARE CONCEALED INSIDE THE WALL. CONNECT THE UNDER CABINET LIGHT TO UNDERSIDE OF THE CABINET.



FAN COIL WIRING DIAGRAM (FC-1)

NO SCALE



SEISMIC SUPPORT OF RECESSED LIGHTS

NO SCALE

ADDRESSABLE FIRE ALARM SYSTEM

DESIG-NATION	DEVICE DESCRIPTION	MANUFACTURER CATALOG NUMBER ALTERNATE MANUFACTURERS	BOX DESCRIPTION	COVER DESCRIPTION
[FA]	ADDRESSABLE FIRE ALARM: ANNUNCIATOR, RATED 24 VDC, 80 CHARACTER BACKLIT LIQUID CRYSTOL DISPLAY WITH CONTROL SWITCHES FOR ACKNOWLEDGE, SILENCE AND RESET, TIME & DATE DISPLAY, ENABLE KEY SWITCH & LOCAL ALARM.	NOTIFIER LCD-80	9.9"H X 4.6"W X 2.5"D NOTIFIER #ABF-1B, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[FM]	ADDRESSABLE FIRE ALARM: DIGITAL TRANSMITTER, RATED 24 VDC, 14 TRANSMISSIONS PER HOUR, DUAL PHONE LINES, KEYBOARD, 4 CHARACTER LED DISPLAY, TRANSMITS ALARM & TROUBLE SOFTWARE ZONES, SYSTEM TROUBLE AND SUPERVISORY ALARMS.	NOTIFIER 411UDACT	9.9"H X 4.6"W X 2.5"D NOTIFIER #ABF-8R, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[CO]	ADDRESSABLE FIRE ALARM: SILVER COLOR, DUCT SMOKE DETECTOR, BUILT-IN DPDT RELAY, SAMPLE TUBE, PHOTOELECTRIC TYPE, RATED 24 VDC. PROVIDE SEPARATE REMOTE ALARM INDICATOR WITH TEST SWITCH.	NOTIFIER FSC-751RP & RTS-451	NONE REQUIRED	NONE REQUIRED
[X]	ADDRESSABLE FIRE ALARM: HORN/STROBE, RATED 24 VDC, CANDELA OUTPUT FIELD SELECTABLE AMONG 15, 15/75, 30, 75, AND 110, FIELD SELECTABLE HORN TONES, SYNCHRONIZABLE, AND WHITE COLOR.	NOTIFIER P1224MC	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[E]	ADDRESSABLE FIRE ALARM: PULL STATION, RATED 24 VDC, DUAL ACTION WITH BI-COLOR ALARM STATUS LED, KEY RESET, AND BRAILLE TEXT ON HANDLE.	NOTIFIER NBG-12LX	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[FMM]	ADDRESSABLE FIRE ALARM: MONITOR MODULE, RATED 24 VDC, MONITORS SPRINKLER FLOW AND TAMPER SWITCHES, GENERATING AN ALARM AT THE SET ADDRESS ON DEVICE CONTACT CLOSURE. 159 ADDRESSES AVAILABLE.	NOTIFIER FMM-101	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[FM]	ADDRESSABLE FIRE ALARM: MAIN PANEL, BATTERY BACKED, RATED 3A @ 120V, CAPABLE OF 301 TOTAL I/O POINTS, 99 INTELLIGENT DETECTORS, 99 ADDRESSABLE MODULES, 99 PROGRAMMABLE SOFTWARE ZONES AND 4 NAC CIRCUITS.	NOTIFIER AFP-200	16"H X 14.5"W X 5.5"D, STEEL, WITH KNOCKOUTS, WALL SURFACE MOUNTING.	NONE REQUIRED
[X]	ADDRESSABLE FIRE ALARM: WHITE COLOR, STROBE, RATED 24 VDC, CANDELA OUTPUT FIELD SELECTABLE AMONG 15, 15/75, 30, 75, AND 110, FIELD SELECTABLE.	S1224MC	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[O]	ADDRESSABLE FIRE ALARM: SMOKE DETECTOR, RATED 24 VDC, LASER DEVICE, WITH 2 LED ALARM STATE INDICATORS, BUILT-IN MAGNETIC TEST SWITCH, HIGH SENSATIVITY.	NOTIFIER LPX751L + P710P BASE	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[135 F]	ADDRESSABLE FIRE ALARM: WHITE COLOR, HEAT DETECTOR, NOTIFIER RATED 24 VDC, 135 DEGREE F FIXED TEMPERATURE/RATE OF RISE.	FST-851R B710LPBP BASE	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED
[200 F]	OF RISE.	FST-851H B710LPBP BASE	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING.	NONE REQUIRED

NOTES: DEVICES BY MANUFACTURERS WHICH ARE NOT LISTED IN THE SCHEDULE REQUIRE 5-DAY WRITTEN PRIOR APPROVAL.

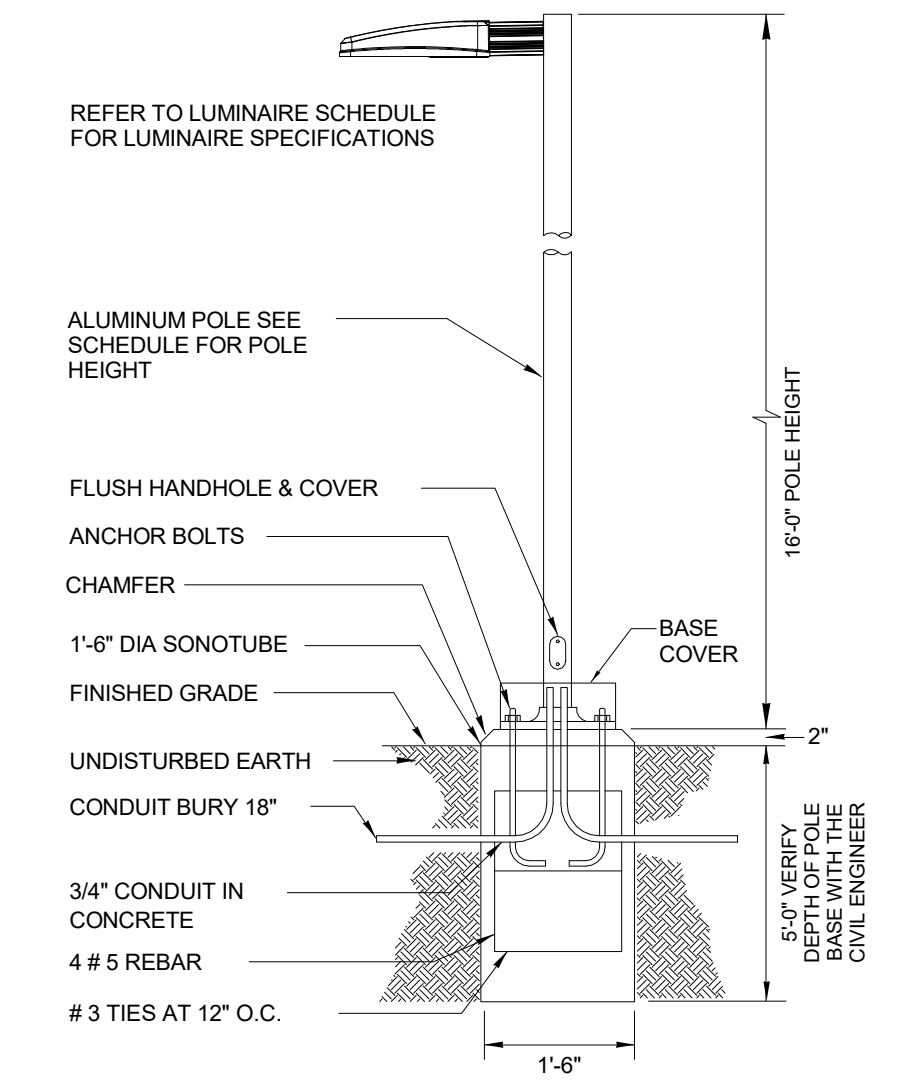
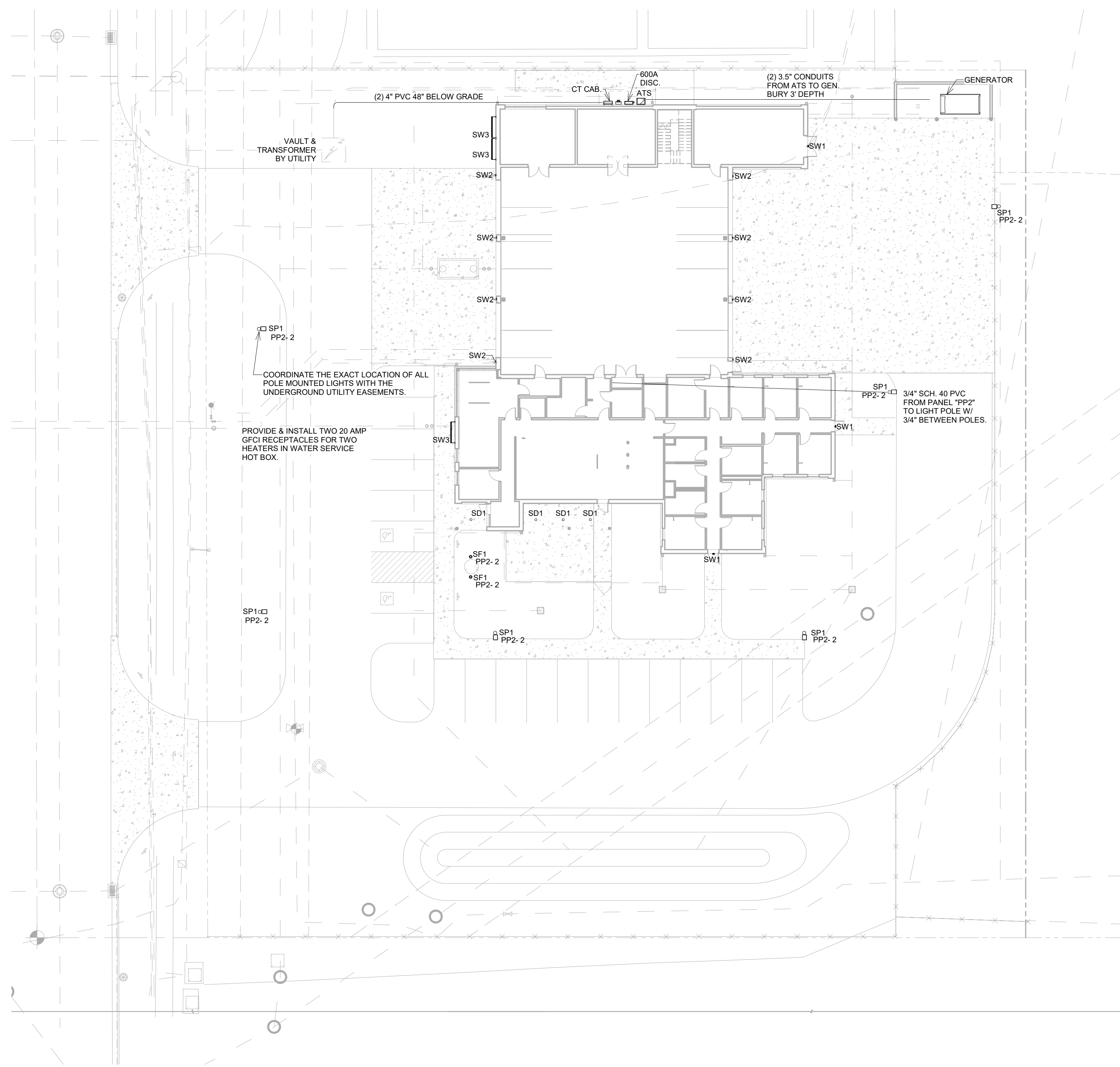
- NOTES REFERENCED ON THE PLANS**
- ROUGH-IN FOR DOOR ACCESS CONTROL CARD READER. PROVIDE 1/2" EMT RACEWAY FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE RACEWAY FROM ELECTRIC STRIKE IN DOOR FRAME TO ACCESSIBLE LOCATION ABOVE CEILING. WIRE SYSTEM PER DOOR ACCESS CONTROL SYSTEM SUBMITTAL WIRING DIAGRAM.
 - PROVIDE FLUSH SIGNAL BOX AND 1" EMT TO SPACE ABOVE THE LOBBY CEILING FOR OWNER'S TELEPHONE INTERCOM.
 - PROVIDE JUNCTION BOX AND EMPTY 1" CONDUIT WITH PULL STRINGS BETWEEN ALL JUNCTION BOXES FOR FUTURE SURROUND SOUND SYSTEM.
 - PROVIDE TWO 2" EMT CONDUITS FROM THE IT ROOM TO TWO 6" X 12" X 12" PULL BOXES ON THE UNDER SIDE OF THE ROOF TRUSSES FOR NETWORK AND TELEPHONE, AND THE RADIO ANTENNA. PROVIDE A THIRD EMT CONDUIT FROM THE IT ROOM TO BUNKER GEAR #133, BYPASSING THE PULLBOXES FOR COAXIAL CABLES. PROVIDE ADDITIONAL PULLING POINTS AS NECESSARY TO LIMIT BENDS TO THREE 90'S.
 - PROVIDE A 2" EMT CONDUIT FROM THE PULL BOX TO THE HOSE TOWER ROOF. COORDINATE RISER AND ROOF PENETRATION LOCATIONS WITH OWNER. PROVIDE ADDITIONAL PULLING POINTS AS NECESSARY TO LIMIT BENDS TO THREE 90'S.

FIRE ALARM SYSTEM CABLES

LETTER	DESCRIPTION
A	SIGNALING LINE CIRCUIT - #18/2 SOLID SHIELDED PLENUM RATED FIRE ALARM BELDEN #5220FN
B	NOTIFICATION APPLIANCE CIRCUIT - #14/2 SOLID PLENUM RATED FIRE ALARM BELDEN #5120UN
C	120 VOLT POWER CIRCUIT - 1/2 EMT 2 #12 & #12 GROUND COPPER
D	24 VOLT POWER CABLE - #16/2 SOLID PLENUM RATED FIRE ALARM BELDEN #5220UN
H	ANNUNCIATOR CABLE - 2 #16/2 SOLID SHIELDED AND 1 #16/2 SOLID UNSHIELDED PLENUM RATED FIRE ALARM TWO BELDEN #5220FN & ONE BELDEN #5220UN
L	DIALER CIRCUIT - 4 PAIR CATEGORY 5 CABLE BELDEN #1624P
M	REMOTE TEST CIRCUIT - 184 SOLID PLENUM RATED FIRE ALARM BELDEN #5320UN

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

SYSTEM ACTIONS	SMOKE DETECTOR	HEAT DETECTOR	DUCT SMOKE DETECTOR	PULL STATION	SPRINKLER FLOW SWITCH	TAMPER SWITCH
ACTIVATES SYSTEM NOTIFICATION APPLIANCES	X	X		X	X	
ACTIVATES SYSTEM SUPERVISORY ALARM						X
DISPLAYS AT MAIN FIRE ALARM PANEL	X	X	X	X	X	
RELEASES MAGNETICALLY HELD DOORS	X	X	X			
SHUTS DOWN ASSOCIATED AIR HANDLING UNIT			X			
CLOSES FIRE/SMOKE DAMPER	X		X			
ACTIVATES DIALER GENERAL ALARM SIGNAL	X	X	X			
ACTIVATES DIALER FLOW ALARM SIGNAL					X	
ACTIVATES DIALER SUPERVISORY SIGNAL						X
ACTIVATES EXTERIOR HORN/STROBE ABOVE FIRE DEPARTMENT CONNECTION	X	X			X	



LIGHT POLE DETAIL

NOT TO SCALE

- NOTES:
1. VERIFY THE BURY DEPTH AND DIAMETER OF THE SONOTUBE WITH THE CIVIL ENGINEER PRIOR TO PURCHASING THE EQUIPMENT. DEPTH WILL DEPEND ON SOIL CONDITIONS. TYPICAL CONCRETE DEPTH IS 5 FT.
 2. THE ELECTRICAL CONTRACTOR IS TO INSTALL VIBRATION DAMPERS IN ALL POLES. OBTAIN DAMPERS FROM POLE MANUFACTURER FOR EACH ALUMINUM POLE.
 3. ALL OUTSIDE LIGHT SOURCES SHALL COMPLY WITH THE LOCAL ZONING AND DEVELOPMENT CODE.
 4. NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.

LIGHTING - ELECTRICAL - SITE PLAN
1" = 20'-0"
NORTH

SITE LIGHT MOUNTING HEIGHT NOTES:

1. SD1: MOUNT IN THE BUILDING SOFFIT
2. SP1: MOUNT THE 16'-0" POLE ON A FLUSH BASE.
3. SW1: MOUNT ON THE EXTERIOR WALL AT 8'-0" ABOVE FINISHED FLOOR. CIRCUIT THIS FIXTURE TO PROVIDE EMERGENCY EGRESS LIGHT AWAY FROM THE BUILDING.
4. SW2: MOUNT ON THE EXTERIOR WALL AT 8'-0" ABOVE FINISHED FLOOR.
5. SW3: MOUNT ON THE EXTERIOR WALL ABOVE THE BUILDING SIGN AT 13'-4" ABOVE FINISHED FLOOR.
6. SF1: FLUSH MOUNT IN THE GROUND TO HIGHLIGHT THE FLAG.

SITE LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	LAMP	DESCRIPTION
SD1	PRESCOLITE LIGHTING	LF4SL-4LPSL-20L-35K-8-B6	2400LM, 4000K, 26W, 80CRI, 120V, 0-10V LED DIMMING	RECESSED LED DOWN LIGHT, 0-10V DRIVER, SEMI-DIFFUSE CLEAR ALZAK TRIM, SEMI-DIFFUSE REF. FINISH
SF1	LUMASCAPE INC.	LS853 LED 20W-W4-G-N-82-NM-29-Q-01-09 / LS9012 / LS6052-K	1719LM, 3000K, 20W,	INGRADE LED UPLIGHT, CROSS HATCH LOUVER, BRUSHED STAINLESS STEEL COVER,
SP1	BEACON LIGHTING	VSP-36L-65-4K7-4W-UNV-A-DBT	8864LM, 4000K, 70CRI, 65W, 500mA, LED DIMMING DRIVER, 120V	VIPER SMALL POLE MOUNTED LIGHT, 16' POLE HEIGHT, DARK BRONZE MATTE FINISH, TYPE 4 FORWARD THROW.
SW1	HUBBLEE OUTDOOR LIGHTING	SG1-10-4K7-FT-UNV-DBT-CS SG1-YOKE	1424LM, 4000K, 11W, 70CRI, 120V	LED EXTERIOR WALL MOUNTED FIXTURE, MOUNT ON YOKE, DARK BRONZE TEXTURED FINISH
SW2	WAC LIGHTING	WS-W15912-BK	331 DELIVERED LM, 3000K, 10W, ELV DIMMING, 90CRI, 120V	ARCHETYPE OUTDOOR WALL SCONCE, BRONZE FINISH, ALUMINUM HARDWARE WITH ETCHED GLASS DIFFUSER
SW3	ELLIPTIPAR LIGHTING	S175-R06L-HFC12-06-M-00-0-840-ZX	4588LM, 4000K, 43W, 80CRI, 0-10V LED DIMMING	SMALL OUTDOOR LED UPLIGHT, 12" LONG CANTILEVER ARM, DARK BRONZE FINISH, 0-10V LED DIMMING DRIVER.