

**HARNETT COUNTY
EMERGENCY SERVICES
NORTH CAROLINA**



Application for Fire Marshal Plan Review

Type of Review Requested:

☐ Site Plan Review

☒ Building Plan Review

Project Information

Project Name: Esensoy Medical Center / Pediatric office

Project Physical Address: 790 Hwy NC 24/87

PIN #: 9585-SU-1195

Plan Information

Plans Submitted by: JCH Architecture, PLLC

Contact Person: Julianne Hamelson

Contact Phone #: 910.876.3699

Contact Email: jcharchitect25@gmail.com

Contractor Information

Contractor/Company Name: Raywest Design/Build

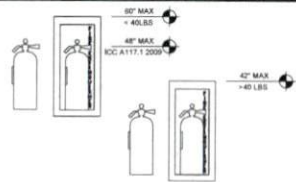
Company Mailing Address: 2818 Raeford Rd , Suite 300 Fayetteville, NC 28303

Primary Contact Name: Hector Ray

Contact Phone #: 910.309.2282

Contact EMail: hector.ray@raywestdesignbuild.com

- Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the eTrakit portal, or by calling the Harnett County Central Permitting Department (910-893-7525, Option #1) or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be obtained through Central Permitting (via centralpermitting@harnett.org email) at the time of payment; payment can be made over the phone (910-893-7525, Option #1) or at the Central Permitting Office (420 McKinney Parkway Lillington, NC 27546).
- All fees must be paid before any required inspections can be conducted.



4" MIN ABOVE THE FLOOR
FINISH FLOOR

NOTES

- SEE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE EXTINGUISHERS.
- PROVIDE RATED CABINET ENCLOSURE IN ACCORDANCE WITH RATED WALL CONSTRUCTION.
- MAX REACH HEIGHT IS 48" TO THE TOP OF THE HANDLE PER ICGA 117.1-2009.

1 FIRE EXTINGUISHER MOUNTING HTS.
N.T.S.

LIFE SAFETY LEGEND



jch
ARCHITECTURE, PLLC

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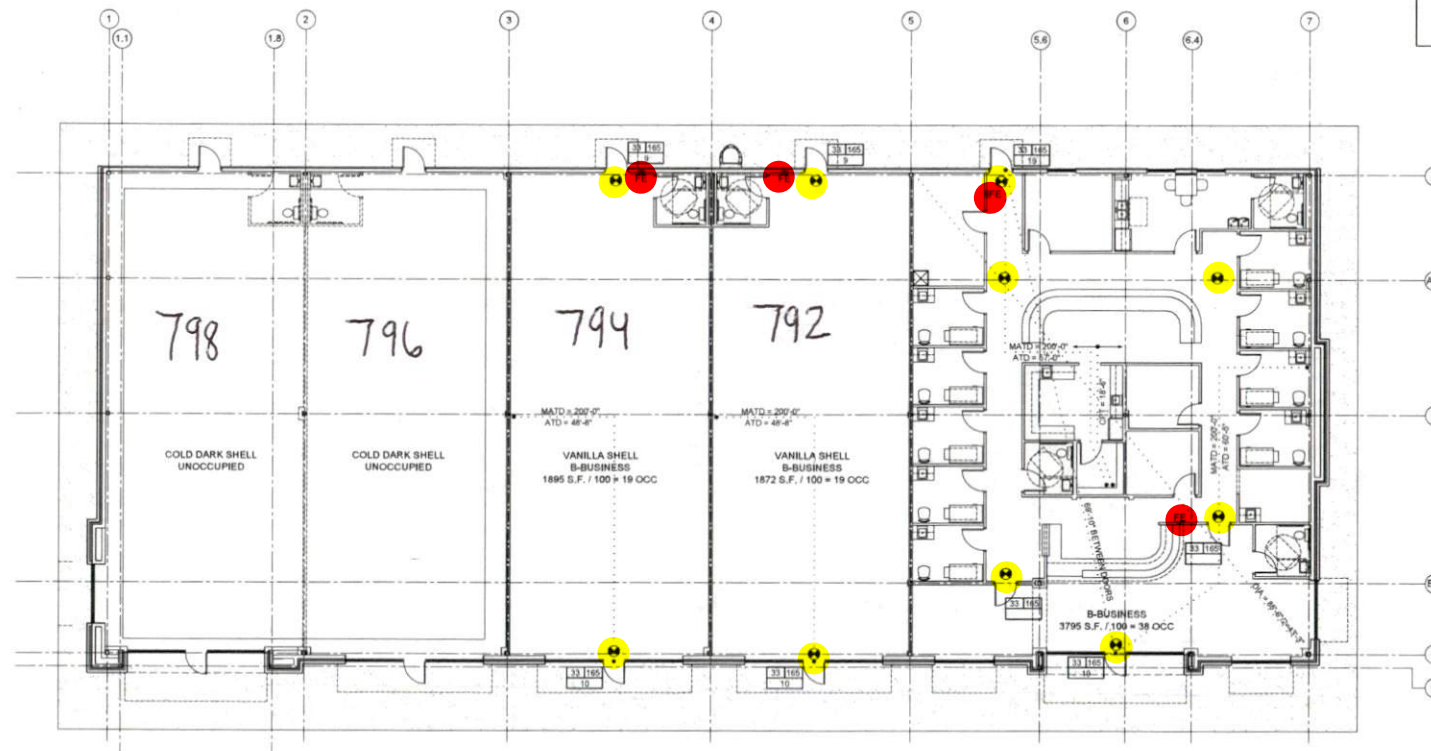
ESENSEY MEDICAL CENTER
800 HWY NC 54 RT
CAMERON, NORTH CAROLINA

REVISIONS

PROJECT # 25-121
DATE 5.9.20
DRAWN BY JCH
CHECKED BY

LIFE SAFETY PLAN

G-LS1



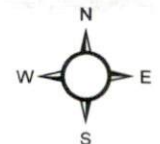
2 LIFE SAFETY PLAN
1/8" = 1'-0"

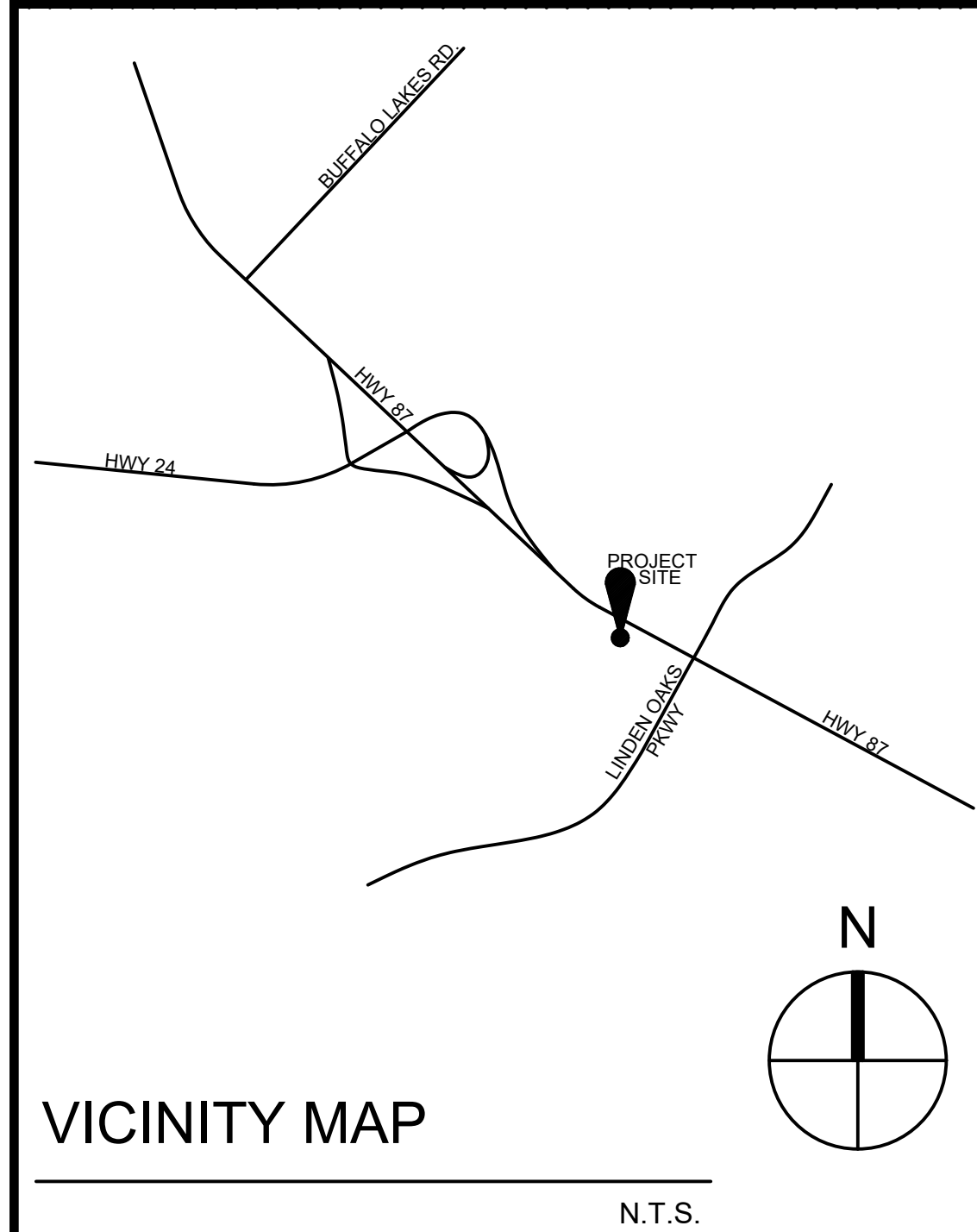


Harnett.org/GIS

August 19, 2026

- County Boundary
- NC
- Parcels
- Address Numbers
- Road Centerlines





VICINITY MAP

N.T.S.

ESENSOY MEDICAL CENTER

CAMERON, NORTH CAROLINA

Reviewed for Fire Code Compliance
Leslie Jackson
09/01/2026 6:18:28 AM

CIVIL ENGINEER:

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PM&E ENGINEER:

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STRUCTURAL ENGINEER:

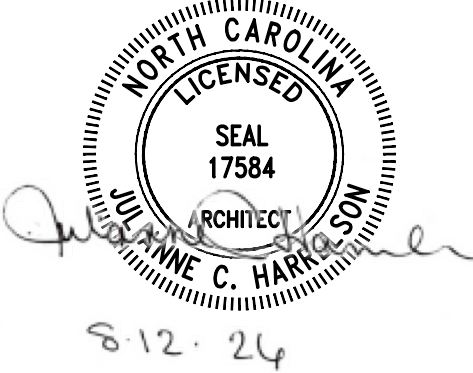
RPA ENGINEERING
MARK S. ROY, P.E.
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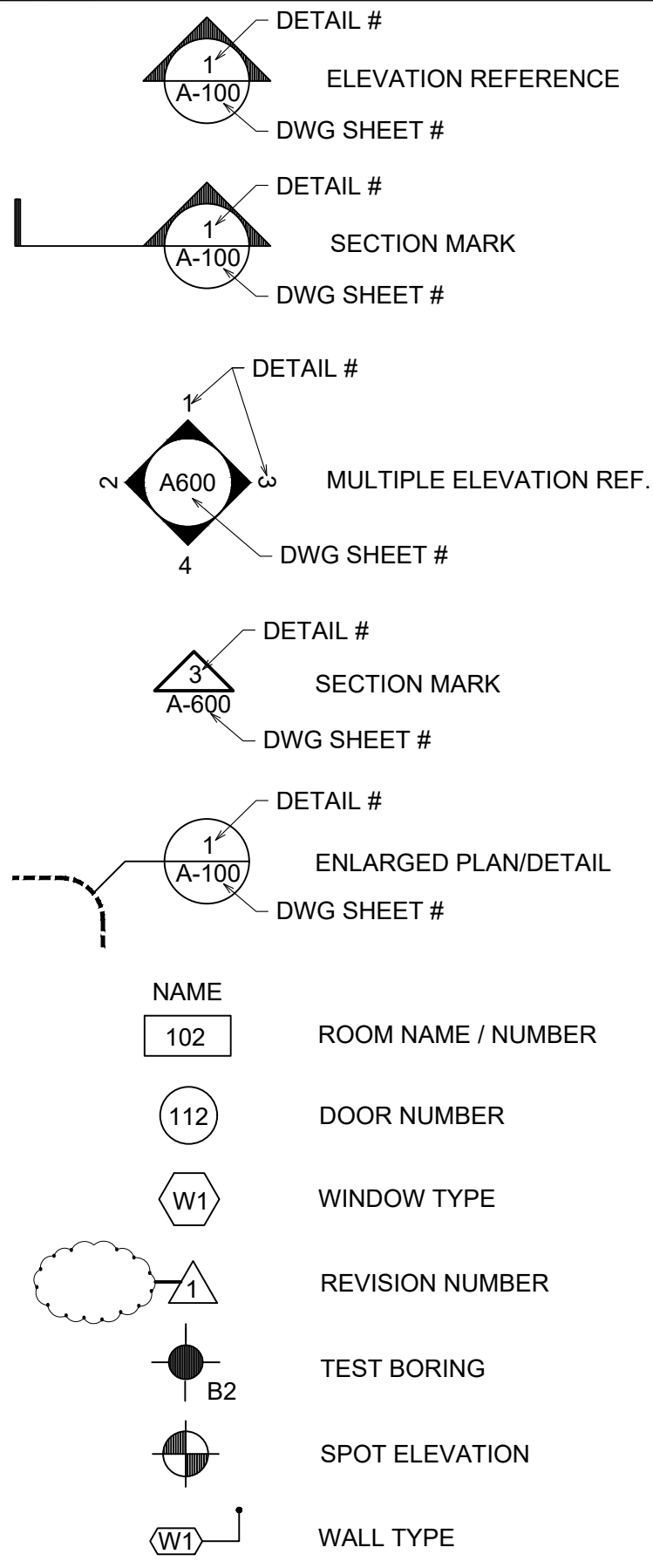


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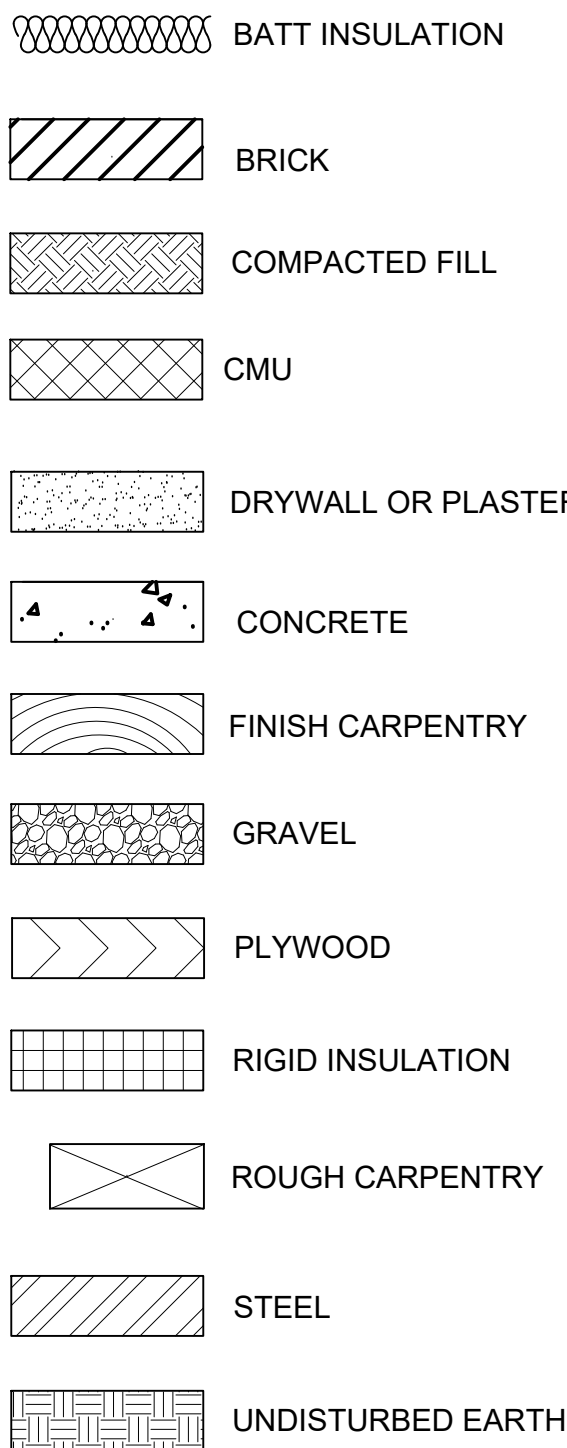
ABBREVIATIONS

AB	ANCHOR BOLT	ID	INSIDE DIAMETER
ACT	ACOUSTICAL CEILING TILE	INSUL	INSULATION
A.F.F.	ABOVE FINISHED FLOOR	INV	INVERT
<	ANGLE	JAN	JANITOR
ALUM	ALUMINUM	JST	JOIST
@	AT	MAX	MAXIMUM
BLKG	BLOCKING	MECH	MECHANICAL
BLDG	BUILDING	MFR	MANUFACTURER
BM	BENCH MARK	MIN	MINIMUM
B/O	BY OTHERS	MISC	MISCELLANEOUS
BRG	BEARING	MO	MASONRY OPENING
CLG	CEILING	MRGWB	MOISTURE RESISTANT GWB
CL	CENTER LINE	MTD.	MOUNTED
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CMU	CONC. MASONRY UNIT	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONT	CONTINUOUS	OD	OUTSIDE DIAMETER
CRS.	COURSES	OPNG	OPENING
DBL	DOUBLE	PL	PROPERTY LINE
DEMO	DEMOLITION	PLAM	PLASTIC LAMINATE
DIA	DIAMETER	PLYWD	PLYWOOD
DN	DOWN	PM&E	PLUMBING, MECHANICAL, AND ELECT.
DS	DOWN SPOUT	PREFAB	PREFABRICATED
DWG	DRAWING	PT	PRESSURE TREATED
EA	EACH	R	RADIUS
EJ	EXPANSION JOINT	REQ'D	REQUIRED
ELEC	ELECTRICAL	REV	REVISION
ELEV	ELEVATION	RO	ROUGH OPENING
EQ	EQUAL	SAN	SANITARY
EQUIP	EQUIPMENT	SF	SQUARE FOOT
EXT	EXTERIOR	SHTHG	SHEATHING
EXIST	EXISTING	SIM	SIMILAR
FE	FIRE EXTINGUISHER	SQ	SQUARE
FD	FLOOR DRAIN	STL	STEEL
FFE	FINISH FLOOR ELEVATION	SS	STAINLESS STEEL / SANITARY SEWER
FF&E	FURNITURE FIXTURES & EQUIPMENT	TEMP	TEMPORARY
FLR	FLOOR	T.O.F.	TOP OF FOOTING
FT	FOOT/FEET	T.O.J.	TOP OF JOIST
GA	GAUGE	T.O.S.	TOP OF STEEL
GALV	GALVANIZED	T.O.W.	TOP OF WINDOW
GWB	GYPSUM WALL BOARD	TYP.	TYPICAL
GYP	GYPSUM	UN	UNLESS OTHERWISE NOTED
HB	HOSE BIBB	VERT	VERTICAL
HDW	HARDWARE	WWM	WELDED WIRE MESH
HM	HOLLOW METAL	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HVAC	HEATING VENTILATION & AIR COND.	WD	WOOD

DRAWING SYMBOLS



MATERIAL LEGEND



GENERAL NOTES

- DO NOT SCALE DRAWINGS. DIRECT DIMENSIONAL DISCREPANCIES AND QUESTIONS TO THE ARCHITECT.
- DOOR ROUGH OPENINGS TO LOCATED 6" OFF ADJACENT PARTITIONS UNLESS OTHERWISE NOTED. FINAL INSTALL SHOULD HAVE 4" OF GWB BETWEEN ADJACENT PARTITION AND DOOR FRAME.
- VERIFY DIMENSIONS IN THE FIELD AS REQUIRED TO COORDINATE THE WORK.
- PROVIDE BLOCKING, ANCHORS AND MOUNTING ACCESSORIES AS NECESSARY FOR PROPER INSTALLATION OF CASEWORK, TELEVISIONS, TOILET ACCESSORIES, HANDRAILS, OR OTHER WALL MOUNTED FIXTURES SHOWN ON THESE DRAWINGS.
- WHERE A DETAIL IS INDICATED AS TYPICAL, PROVIDE THE WORK INDICATED AT ALL SIMILAR OR APPLICABLE LOCATIONS.
- ARCHITECTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS FOR THE PROJECT. DISCREPANCIES BETWEEN DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- ALL MILLWORK DIMENSIONS SHALL BE FIELD VERIFIED.
- PROVIDE SIGNAGE AS REQUIRED BY CODE.
- ALL DIMENSIONS SHOWN ON THE PLAN ARE FROM FACE OF STUD TO FACE OF STUD UNLESS OTHERWISE NOTED. MASONRY WALLS ARE DIMENSIONED FACE OF MASONRY TO FACE OF MASONRY.
- DIMENSIONS NOTED "CLEAR" ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS OTHERWISE NOTED. THEY ARE NOT TO BE ADJUSTED WITHOUT APPROVAL OF THE ARCHITECT.
- WHERE A "MIN" DIMENSION IS INDICATED ON THE PLANS, THE G.C. WILL VERIFY THAT THE DIMENSION CAN BE ACHIEVED BEFORE PROCEEDING WITH THE WORK. IF NOT, G.C. SHALL NOTIFY THE ARCHITECT OF THE DISCREPANCY.
- PAINT ALL STEEL DOOR AND WINDOW LINTELS.
- VERIFY LEVELNESS OF ALL SUB-FLOORS PRIOR TO INSTALLATION OF FINISH FLOOR MATERIALS.
- PROVIDE CONTROL JOINTS A 30'-0" O.C. MAXIMUM FOR ALL GWB WALLS.
- PROVIDE CONTROL JOINTS FOR GWB CEILINGS EXCEEDING 2500 S.F UNLESS OTHERWISE SHOWN ON THE PLAN.
- PROVIDE 3/4" 4X8 SHEET OF FIRE RETARDANT TREATED PLYWOOD AT ALL ELECTRICAL AND TELEPHONE CLOSETS. REFER TO ELECTRICAL AND TELECOM DRAWINGS FOR EXACT LOCATIONS.

ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS					
1	7.2.26 correct during pricing				
2					
3					
4					
5					

PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

COVER SHEET

G-100

APPENDIX B
2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2-Family Dwellings and Townhouses)

Reviewed for Fire Code Compliance
Leslie Jackson
09/01/2026 6:29:29 AM

Name/Project: ESENSOY MEDICAL CENTER - SHELL BLDG
Address: 790.792.794.796 HWY NC 24/87, CAMERON, NORTH CAROLINA Zip Code
Owner/Authorized Agent: JULIANNE HARRELSON Phone 910.876.3699 E-Mail jcharchitect25@gmail.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County HARNETT ☐ State

DESIGNER FIRM NAME LICENSE # TELEPHONE E-MAIL
Architectural: JCH ARCHITECTURE PLLC JULIANNE HARRELSON 17584 910.876.3699 jcharchitect25@gmail.com
Civil: GEORGE M. ROSE GEORGE ROSE 11315 910.485.5822 george@gmrpe.com
Electrical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Fire Alarm: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Mechanical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Sprinkler-Standpipe: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Structural: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Retaining Walls > 5' High: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Other: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior design, etc.)

2018 NC BUILDING CODE FOR: ☐ New Building ☐ Addition ☐ Renovation ☐ 1st Time Interior Completion
☒ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and req.
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.
2018 EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Historic Property
(Check all that apply) ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of use

CONSTRUCTED: (Date) _____ CURRENT OCCUPANCY (S): (Ch.3) _____
RENOVATED: (Date) _____ PROPOSED OCCUPANCY (S): (Ch.3) _____
RISK CATEGORY (Table 1904.5): CURRENT: ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(Check all that apply) ☐ I-B ☒ II-B ☐ III-B ☐ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE:	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		11,500 S.F.	11,500 S.F.
Basement			
TOTAL		11,500 S.F.	11,500 S.F.

Occupancy: ALLOWABLE AREA
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☒
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
Mercantile ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Residential ☐ S-1 Moderate ☐ S-2 Low ☐ High-Pile ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Storage ☐ Utility & Miscellaneous ☐

Accessory Occupancy Classification(s):
Incidental Uses (Table 509)
Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):

Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: _____
☐ Non-Separated Use (508.3)

☐ Separated Use (508.3.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$x \quad + \quad x \quad = \quad x \quad + \quad x \quad = \quad x \quad \leq \quad 1.00$$

CONTINUED ALLOWABLE AREA					
STORY NUMBER	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	B-BUSINESS	11,500	23,000	-	23,000

- 1 Frontage area increase from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = X ____ (F).
b. Total Building Perimeter = ____ (P).
c. Ratio (F/P) = ____ (F/P).
d. W = Minimum width of public way = ____ (W).
e. Percent of frontage increase $I_1 = 100(F/P - 0.25) W/30 = \quad \quad \quad \%$
2 Unlimited area applicable under conditions of Section 507
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
4 The maximum area of open parking garages must comply with 406.5.4.
5 Frontage increase is based on the unsprinkled area in Table 506.2

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Type of Construction	Type IIB	Type IIB	
Building Height in Feet (Table 504.3) ²	Feet 55'	28'-4"	
Bldg Height in Stories (Table 504.4) ³	Stories 3	Stories 1	

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
2. The maximum height of air traffic control towers must comply with Table 412.3.1.
3. The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS						
BUILD ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQD	PROVIDED w/ REDUCTION	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses						
Bearing Walls						
Exterior						
North	NA	NA				
East	NA	NA				
West	NA	NA				
South	NA	NA				
Interior	NA	NA				
Nonbearing walls and partitions						
Exterior						
North	>30'	0				
East	>30'	0				
West	>30'	0				
South	>30'	0				
Interior walls & partitions						
Floor construction						
Including supporting beams and joists	0					
Floor/Ceiling Assembly	0					
Columns Supporting Floors	0					
Roof construction including supporting beams and joists	0					
Roof/Ceiling Assembly	0					
Columns Supporting Roof	0					
Shafts Enclosure - Exit	NA					
Shafts Enclosure - Other	NA					
Corridor Separation	NA					
Occupancy/Fire Barrier Separation	NA					
Party/Fire Wall Separation	NA					
Smoke Barrier Separation	NA					
Tenant/Dwelling Unit/Sleeping Unit Separation	NA					
Incidental Use Separation	NA					

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLAN (%)
> 30'-0" ALL SIDES			

****SEE TENANT UPFITS****
LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: ☒ No ☐ Yes
Exit Signs: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial
Carbon Monoxide Detection: ☒ No ☐ Yes
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: NA FOR SHELL BLDG - SEE TENANT UPFITS
☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not shown on Site Plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupant loads for each area
☐ Exit access travel distance (1013)
☐ Common path of travel distances (Table 1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
☐ Clear exits widths for each exit door
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footages of each fire area (902)
☐ The square footages of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)						
TOTAL OF UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED
NA						

ACCESSIBLE PARKING (SECTION 1106)				
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 12' ACCESS AISLE
PARKING LOT	50	67	2	1
TOTAL				

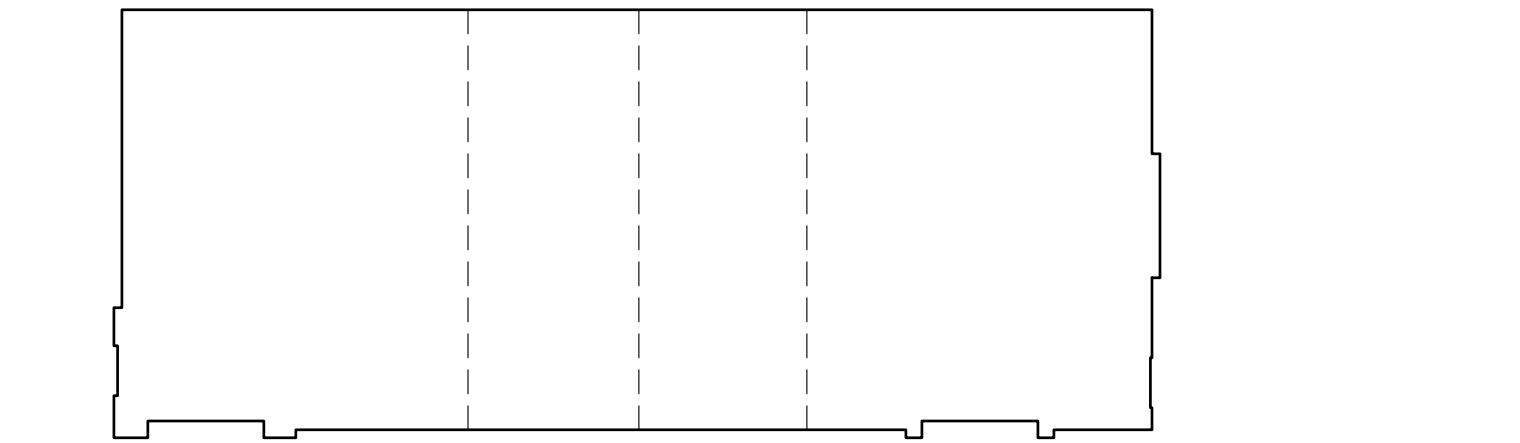
PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE	WATERCLOSETS	LAVATORIES	SERVICE SINK	DRINKING FOUNTAINS	REGULAR	ACCESSIBLE	WATERCLOSETS	LAVATORIES	SERVICE SINK
MALE	FEMALE	UNISEX	URINALS	MALE	FEMALE	UNISEX			
NA SHELL BLDG									

SPECIAL APPROVALS
Special approvals: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

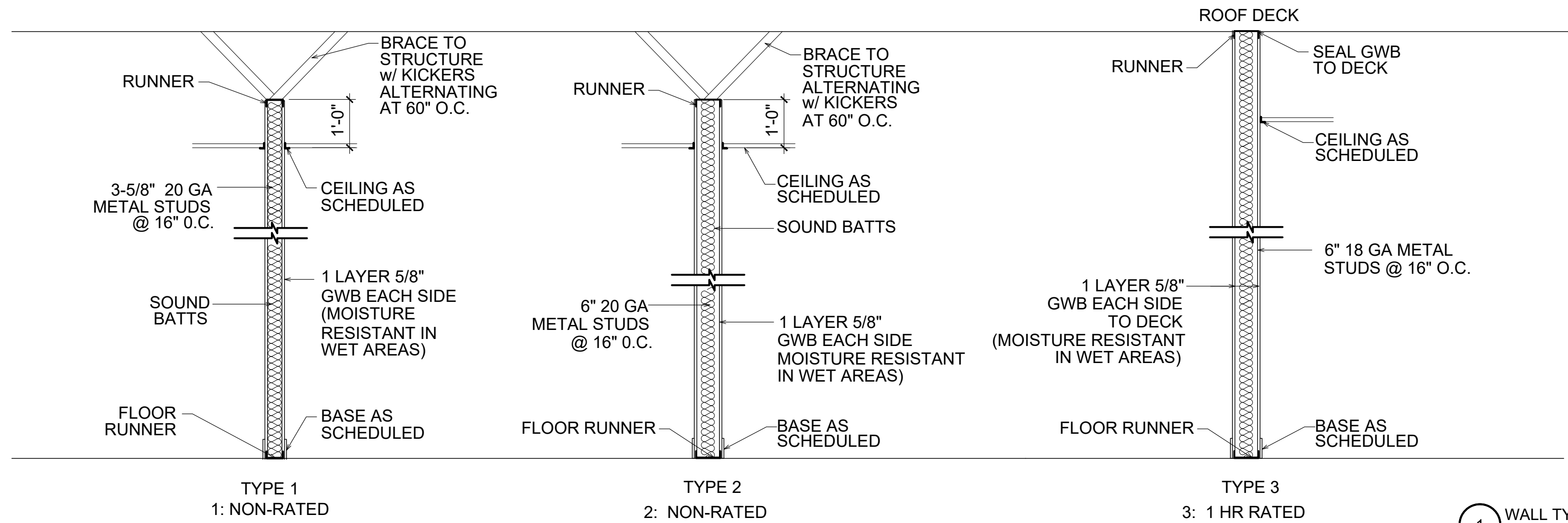
2018 North Carolina State Administrative Code and Policies

ENERGY SUMMARY
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the performance design.
EXISTING BUILDING: ☐ No ☐ Yes (The remainder of this section is not applicable)
EXISTING BUILDING: ☐ No ☐ Yes (Provide code or statutory reference):
CLIMATE ZONE: ☐ 3A ☒ 4A ☐ 5A
METHOD OF COMPLIANCE: Energy Code ☐ Performance ☒ Prescriptive
AHRAE 90.1 ☐ Performance ☐ Prescriptive
(if "Other" specify source here)
THERMAL ENVELOPE:
Roof/Ceiling Assembly (each assembly)
Description of assembly METAL DECK W/ R-30 CONTINUOUS INSULATION & MEMBRANE ROOF
U-Value of total assembly U 0.032
R-Value of insulation R-30
Skylights in each assembly NA
U-Value of skylight
total square footage of skylights in each assembly
Exterior walls (each assembly)
Description of assembly 6" METAL STUDS, R21 BATT INSULATION & R10 CONT. RIGID INSULATION
U-Value of total assembly U 0.03
R-Value of insulation R 21 + R10
Openings (windows or doors with glazing)
U-Value of assembly U 0.45 OR BETTER
Solar heat gain coefficient U 0.25 OR BETTER
projection factor VARIES
Door R-Values U 0.77 OR BETTER
Walls adjacent to unconditioned space (each assembly)
Description of assembly NA
U-Value of total assembly
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly
Solar heat gain coefficient
projection factor
Door R-Values
Walls below grade (each assembly)
Description of assembly NA
U-Value of total assembly
R-Value of insulation
Floors over unconditioned space (each assembly)
Description of assembly NA
U-Value of total assembly
R-Value of insulation
Floor slab on grade
Description of assembly 4" CONCRETE SLAB w/R-15 INSUL
U-Value of total assembly .067
R-Value of insulation
Horizontal/vertical requirements
Slab heated

STRUCTURAL SUMMARY
REFERENCE STRUCTURAL DRAWING SHEET S401 FOR STRUCTURAL DESIGN LOADS AND INFORMATION
MECHANICAL SUMMARY
REFERENCE MECHANICAL DRAWING SHEET M1 FOR MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
ELECTRICAL SUMMARY
REFERENCE ELECTRICAL DRAWING SHEET E4 FOR ELECTRICAL SYSTEMS AND EQUIPMENT



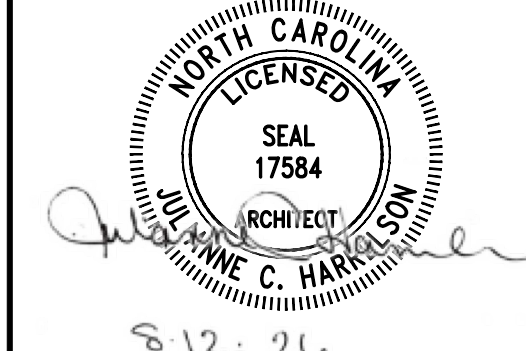
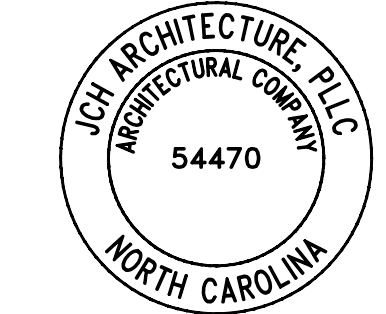
KEY PLAN
BUILDING SHELL



1 WALL TYPES
NOT TO SCALE



676 OLD HWY 41
BLADENBORO, NORTH CAROLINA 28320
PHONE: (910) 876-3699
jcharchitect25@gmail.com



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ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS
7.2.26 correct pricing
8.12.26 address correction

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

SHELL BLDG
BUILDING CODE
SUMMARY

G-101a

APPENDIX B
2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2-Family Dwellings and Townhouses)

2

Name/Project: ESENSOY MEDICAL CENTER - VANILLA SHELL ONE
Address: 794 HWY NC 24/87, CAMERON, NORTH CAROLINA Zip Code
Owner/Authorized Agent: JULIANNE HARRELSON Phone 910.876.3699 E-Mail jcharchitect25@gmail.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County HARNETT ☐ State

DESIGNER FIRM NAME LICENSE # TELEPHONE E-MAIL
Architectural: JCH ARCHITECTURE PLLC JULIANNE HARRELSON 17564 910.876.3699 jcharchitect25@gmail.com
Civil: GEORGE M. ROSE GEORGE ROSE 11315 910.485.6822 george@gmrye.com
Electrical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Fire Alarm: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Mechanical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Sprinkler-Standpipe: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Structural: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Retaining Walls > 5' High: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Other: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior design, etc.)

2018 NC BUILDING CODE FOR: ☐ New Building ☐ Addition ☐ Renovation ☒ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and req.
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Historic Property
(Check all that apply) ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of use

CONSTRUCTED: (Date) _____ CURRENT OCCUPANCY (S): (Ch. 3) _____
RENOVATED: (Date) _____ PROPOSED OCCUPANCY (S): (Ch. 3) _____
RISK CATEGORY (Table 1604.5): CURRENT: ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:
Construction Type: ☐ I-A ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(Check all that apply) ☐ I-B ☒ II-B ☐ III-B ☐ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE:
FLOOR EXISTING BLDG TENANT SPACE
3rd Floor
2nd Floor
Mezzanine
1st Floor 11,500 S.F. 1895 S.F.
Basement
TOTAL 11,500 S.F. 1895 S.F.

Occupancy: ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Assembly ☒ Business ☐ Educational ☐ Factory ☐ F-1 Moderate ☐ F-2 Low ☐ Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM ☐ Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 ☐ I-5 ☐ I-6 ☐ I-7 ☐ I-8 ☐ I-9 ☐ I-10 ☐ I-11 ☐ I-12 ☐ I-13 ☐ I-14 ☐ I-15 ☐ I-16 ☐ I-17 ☐ I-18 ☐ I-19 ☐ I-20 ☐ I-21 ☐ I-22 ☐ I-23 ☐ I-24 ☐ I-25 ☐ I-26 ☐ I-27 ☐ I-28 ☐ I-29 ☐ I-30 ☐ I-31 ☐ I-32 ☐ I-33 ☐ I-34 ☐ I-35 ☐ I-36 ☐ I-37 ☐ I-38 ☐ I-39 ☐ I-40 ☐ I-41 ☐ I-42 ☐ I-43 ☐ I-44 ☐ I-45 ☐ I-46 ☐ I-47 ☐ I-48 ☐ I-49 ☐ I-50 ☐ I-51 ☐ I-52 ☐ I-53 ☐ I-54 ☐ I-55 ☐ I-56 ☐ I-57 ☐ I-58 ☐ I-59 ☐ I-60 ☐ I-61 ☐ I-62 ☐ I-63 ☐ I-64 ☐ I-65 ☐ I-66 ☐ I-67 ☐ I-68 ☐ I-69 ☐ I-70 ☐ I-71 ☐ I-72 ☐ I-73 ☐ I-74 ☐ I-75 ☐ I-76 ☐ I-77 ☐ I-78 ☐ I-79 ☐ I-80 ☐ I-81 ☐ I-82 ☐ I-83 ☐ I-84 ☐ I-85 ☐ I-86 ☐ I-87 ☐ I-88 ☐ I-89 ☐ I-90 ☐ I-91 ☐ I-92 ☐ I-93 ☐ I-94 ☐ I-95 ☐ I-96 ☐ I-97 ☐ I-98 ☐ I-99 ☐ I-100 ☐ I-101 ☐ I-102 ☐ I-103 ☐ I-104 ☐ I-105 ☐ I-106 ☐ I-107 ☐ I-108 ☐ I-109 ☐ I-110 ☐ I-111 ☐ I-112 ☐ I-113 ☐ I-114 ☐ I-115 ☐ I-116 ☐ I-117 ☐ 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I-868 ☐ I-869 ☐ I-870 ☐ I-871 ☐ I-872 ☐ I-873 ☐ I-874 ☐ I-875 ☐ I-876 ☐ I-877 ☐ I-878 ☐ I-879 ☐ I-880 ☐ I-881 ☐ I-882 ☐ I-883 ☐ I-884 ☐ I-885 ☐ I-886 ☐ I-887 ☐ I-888 ☐ I-889 ☐ I-890 ☐ I-891 ☐ I-892 ☐ I-893 ☐ I-894 ☐ I-895 ☐ I-896 ☐ I-897 ☐ I-898 ☐ I-899 ☐ I-900 ☐ I-901 ☐ I-902 ☐ I-903 ☐ I-904 ☐ I-905 ☐ I-906 ☐ I-907 ☐ I-908 ☐ I-909 ☐ I-910 ☐ I-911 ☐ I-912 ☐ I-913 ☐ I-914 ☐ I-915 ☐ I-916 ☐ I-917 ☐ I-918 ☐ I-919 ☐ I-920 ☐ I-921 ☐ I-922 ☐ I-923 ☐ I-924 ☐ I-925 ☐ I-926 ☐ I-927 ☐ I-928 ☐ I-929 ☐ I-930 ☐ I-931 ☐ I-932 ☐ I-933 ☐ I-934 ☐ I-935 ☐ I-936 ☐ I-937 ☐ I-938 ☐ I-939 ☐ I-940 ☐ I-941 ☐ I-942 ☐ I-943 ☐ I-944 ☐ I-945 ☐ I-946 ☐ I-947 ☐ I-948 ☐ I-949 ☐ I-950 ☐ I-951 ☐ I-952 ☐ I-953 ☐ I-954 ☐ I-955 ☐ I-956 ☐ I-957 ☐ I-958 ☐ I-959 ☐ I-960 ☐ I-961 ☐ I-962 ☐ I-963 ☐ I-964 ☐ I-965 ☐ I-966 ☐ I-967 ☐ I-968 ☐ I-969 ☐ I-970 ☐ I-97

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(Except 1 and 2-Family Dwellings and Townhouses)

2

Name/Project: ESENSOY MEDICAL CENTER - VANILLA SHELL TWO

Address: 792 HWY NC 24/87, CAMERON, NORTH CAROLINA Zip Code

Owner/Authorized Agent: JULIANNE HARRELSON Phone 910.876.3699 E-Mail jcharchitect25@gmail.com

Owned By: ☐ City/County ☒ Private ☐ State

Code Enforcement Jurisdiction: ☐ City ☒ County, HARNETT ☐ State

DESIGNER

FIRM

NAME

LICENSE #

TELEPHONE

E-MAIL

Architectural: JCH ARCHITECTURE PLLC JULIANNE HARRELSON 17584 910.876.3699 jcharchitect25@gmail.com

Civil: GEORGE M. ROSE GEORGE ROSE 11315 910.485.5822 george@gmrpe.com

Electrical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

Fire Alarm: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

Plumbing: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

Mechanical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

Sprinkler-Standpipe: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

Structural: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

Retaining Walls > 5' High: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

Other: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com

(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior design, etc.)

2018 NC BUILDING CODE FOR:

☐ New Building ☐ Addition ☐ Renovation ☒ 1st Time Interior Completion

☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and req.

☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Historic Property

(Check all that apply) ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of use

CONSTRUCTED: (Date) CURRENT OCCUPANCY (S): (Ch. 3)

RENOVATED: (Date) PROPOSED OCCUPANCY (S): (Ch. 3)

RISK CATEGORY (Table 1604.5): CURRENT: ☐ I ☐ II ☐ III ☐ IV

PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A

(Check all that apply) ☐ I-B ☒ II-B ☐ III-B ☐ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes

Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE:

FLOOR

EXISTING BLDG

TENANT SPACE

3rd Floor

2nd Floor

Mezzanine

1st Floor

11,500 S.F.

1872 S.F.

Basement

TOTAL

11,500 S.F.

1872 S.F.

Occupancy:

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5

Business ☒ F-1 Moderate ☐ F-2 Low

Educational ☐ F-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM

Factory ☐ I-1 ☐ I 1 ☐ I 2

Hazardous ☐ I-2 ☐ I 1 ☐ I 2

Institutional ☐ I-3 ☐ I 1 ☐ I 2 ☐ I 3 ☐ I 4 ☐ I 5

Mercantile ☐ I-4

Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4

Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-Pile ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage

Utility & Miscellaneous ☐

Accessory Occupancy Classification(s):

Incidental Uses (Table 509):

Special Uses (Chapter 4 - List Code Sections):

Special Provisions: (Chapter 5 - List Code Sections):

Mixed Occupancy: ☒ No ☐ Yes Separation: Hr. Exception:

☐ Non-Separated Use (508.3)

The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.3.3)

See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1

Allowable Area of Occupancy A Allowable Area of Occupancy B

x + x = x + x = x ≤ 1.00

CONTINUED ALLOWABLE AREA

STORY NUMBER

DESCRIPTION AND USE

BLDG AREA PER STORY (ACTUAL)

TABLE 506.2 AREA

AREA FOR FRONTAGE INCREASE^{1,2}

ALLOWABLE AREA PER STORY OR UNLIMITED^{2,3}

1

B-VANILLA SHELL

1872

23,000

-

23,000

1

B-BUSINESS

9,628

23,000

-

23,000

1 Frontage area increase from Section 506.3 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = X (F).

b. Total Building Perimeter = X (P).

c. Ratio (F/P) = X (F/P).

d. W = Minimum width of public way = X (W).

e. Percent of frontage increase $(1 - 100(F/P - 0.25) W/30) =$ %

2 Unlimited area applicable under conditions of Section 507

3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)

4 The maximum area of open parking garages must comply with 406.5.4.

5 Frontage increase is based on the unspinkled are value in Table 506.2

ALLOWABLE HEIGHT

Type of Construction

Type IIB

Shown on Plans

Code Reference¹

Building Height in Feet (Table 504.3)²

Feet 55' 28'-4"

Bldg Height in Stories (Table 504.3)³

Stories 3

Stories 1

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

2 The maximum height of air traffic control towers must comply with Table 412.3.1.

3 The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILD ELEMENT

FIRE SEPARATION DISTANCE (FEET)

RATING REQ'D

PROVIDED (w/ REDUCTION)

DETAIL # AND SHEET

DESIGN # FOR RATED ASSEMBLY

DESIGN # FOR RATED PENETRATION

DESIGN # FOR RATED JOINTS

Structural Frame, including columns, girders, trusses

Bearing Walls

Exterior

North

NA

NA

East

NA

NA

West

NA

NA

South

NA

NA

Interior

NA

NA

Nonbearing walls and partitions

Exterior

North

>30'

0

East

>30'

0

West

>30'

0

South

>30'

0

Interior walls & partitions

Floor construction

Including supporting beams and joists

0

Floor/Ceiling Assembly

0

Columns Supporting Floors

0

Roof construction including supporting beams and joists

0

Roof/Ceiling Assembly

0

Columns Supporting Roof

0

Shafts Enclosure - Exit

NA

Shafts Enclosure - Other

NA

Corridor Separation

NA

Occupancy/Fire Barrier Separation

NA

Party/Fire Wall Separation

NA

Smoke Barrier Separation

NA

Tenant/Dwelling Unit/Sleeping Unit Separation

1 HR

1 HR

G-103

U 419

Incidental Use Separation

NA

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES

DEGREE OF OPENINGS PROTECTION (Table 705.8)

ALLOWABLE AREA (%)

ACTUAL SHOWN ON PLAN (%)

> 30'-0" ALL SIDES

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes

Exit Signs: ☐ No ☒ Yes

Fire Alarm: ☒ No ☐ Yes

Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial

Carbon Monoxide Detection: ☒ No ☐ Yes

Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-LSI

☒ Fire and/or smoke rated wall locations (Chapter 7)

NA ☐ Assumed and real property line locations (if not shown on Site Plan)

NA ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)

☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)

☒ Occupant loads for each area

☒ Exit access travel distance (1013)

☒ Common path of travel distances (Table 1006.2.1 & 1006.3.2(1))

☒ Dead end lengths (1020.4)

☒ Clear exits widths for each exit door

☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

☒ Actual occupant load for each exit door

NA ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

NA ☐ Location of doors with panic hardware (1010.1.10)

NA ☐ Location of doors with delayed egress locks and amount of delay (1010.1.9.7)

NA ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)

NA ☐ Location of doors equipped with hold-open devices

NA ☐ Location of emergency escape windows (1030)

NA ☐ The square footages of each fire area (202)

NA ☐ The square footages of each smoke compartment for Occupancy Classification I-2 (407.5)

NA ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL OF UNITS

ACCESSIBLE UNITS REQUIRED

ACCESSIBLE UNITS PROVIDED

TYPE A UNITS REQUIRED

TYPE A UNITS PROVIDED

TYPE B UNITS REQUIRED

TYPE B UNITS PROVIDED

TOTAL ACCESSIBLE UNITS PROVIDED

NA

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA

TOTAL # OF PARKING SPACES REQUIRED

OF ACCESSIBLE SPACES PROVIDED

REGULAR WITH 5' ACCESS AISLE

7'2" ACCESS AISLE

8' ACCESS AISLE

TOTAL # ACCESSIBLE PROVIDED

LOT FOR SHELL BLDG

67

2

1

3

TOTAL

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE

WATERCLOSETS MALE FEMALE UNISEX

URINALS MALE FEMALE UNISEX

LAVATORIES MALE FEMALE UNISEX

SERVICE SINK

DRINKING FOUNTAINS REGULAR ACCESSIBLE

B- VANILLA SHELL 2 - 19

1

1

-

SPECIAL APPROVALS

Special approvals: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

2018 North Carolina State Administrative Code and Policies

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

EXISTING BUILDING: ☐ No ☒ Yes (The remainder of this section is not applicable)

EXISTING BUILDING: ☐ No ☐ Yes (Provide code or statutory reference):

CLIMATE ZONE: ☐ 3A ☒ 4A ☐ 5A

METHOD OF COMPLIANCE: Energy Code ☐ Performance ☒ Prescriptive

AHRAE 90.1 ☐ Performance ☐ Prescriptive

(If "Other" specify source here)

THERMAL ENVELOPE:

Roof/Ceiling Assembly (each assembly)

Description of assembly

U-Value of total assembly

R-Value of insulation

Skylights in each assembly

U-Value of skylight

total square footage of skylights in each assembly

Exterior walls (each assembly)

Description of assembly

U-Value of total assembly

R-Value of insulation

Openings (windows or doors with glazing)

U-Value of assembly

Solar heat gain coefficient

projection factor

Door R-Values

Walls adjacent to unconditioned space (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Openings (windows or doors with glazing)

U-Value of assembly

Solar heat gain coefficient

projection factor

Door R-Values

Walls below grade (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Floors over unconditioned space (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Floor slab on grade

Description of assembly

U-Value of total assembly

R-Value of insulation

Horizontal/vertical requirements

Slab heated

STRUCTURAL SUMMARY

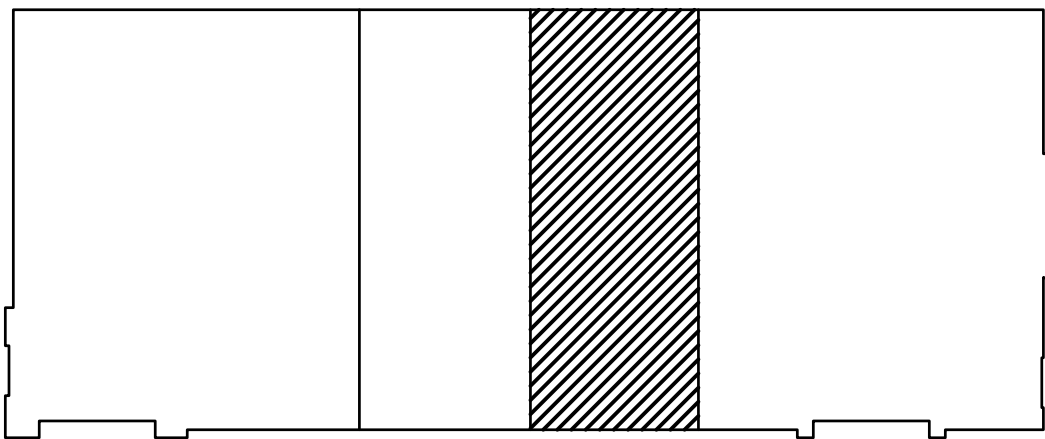
REFERENCE STRUCTURAL DRAWING SHEET NA FOR STRUCTURAL DESIGN LOADS AND INFORMATION

MECHANICAL SUMMARY

REFERENCE MECHANICAL DRAWING SHEET M1 FOR MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

ELECTRICAL SUMMARY

REFERENCE ELECTRICAL DRAWING SHEET E4 FOR ELECTRICAL SYSTEMS AND EQUIPMENT

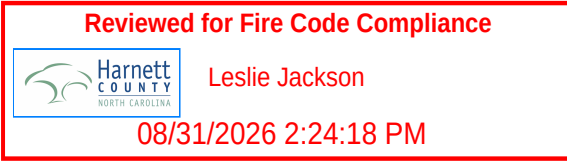


KEY PLAN
VANILLA SHELL 2

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(Except 1 and 2-Family Dwellings and Townhouses)



2

Name/Project: **ESENSOY MEDICAL CENTER - PEDIATRIC OFFICE**

Address: **790 HWY NC 24/87, CAMERON, NORTH CAROLINA** Zip Code _____

Owner/Authorized Agent: **JULIANNE HARRELSON** Phone **910.876.3699** E-Mail **jcharchitect25@gmail.com**

Owned By: ☐ City/County ☒ Private ☐ State

Code Enforcement Jurisdiction: ☐ City ☒ County **HARNETT** ☐ State

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE	E-MAIL
Architectural:	JCH ARCHITECTURE PLLC	JULIANNE HARRELSON	17584	910.876.3699	jcharchitect25@gmail.com
Civil:	GEORGE M. ROSE	GEORGE ROSE	11315	910.485.5822	george@gmrpe.com
Electrical:	COASTAL PLAINS ENG.	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Fire Alarm:					
Plumbing:	COASTAL PLAINS ENG.	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Mechanical:	COASTAL PLAINS ENG.	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Sprinkler-Standpipe:					
Structural:					
Retaining Walls > 5' High:					
Other:					
(Other should include firms and individuals such as truss, precast, pre-engineered, interior design, etc.)					

2018 NC BUILDING CODE FOR: ☐ New Building ☐ Addition ☐ Renovation ☒ 1st Time Interior Completion

☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and req.

☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Historic Property

(Check all that apply) ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of use

CONSTRUCTED: (Date) _____ CURRENT OCCUPANCY (S): (Ch.3) _____

RENOVATED: (Date) _____ PROPOSED OCCUPANCY (S): (Ch.3) _____

RISK CATEGORY (Table 1604.5): CURRENT: ☐ I ☐ II ☐ III ☐ IV

PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:

Construction Type: (Check all that apply) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A

☐ I-B ☒ II-B ☐ III-B ☐ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes

Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE:	EXISTING (SQ FT)	NEW (SQ FT)
FLOOR		
3rd Floor		
2nd Floor		
Mezzanine		
1st Floor	11,500 S.F.	3795 S.F.
Basement		
TOTAL	11,500 S.F.	3795 S.F.

Occupancy: ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5

Assembly ☒ Business ☐ Educational ☐ Factory ☐ F-1 Moderate ☐ F-2 Low

Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM

Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4

Mercantile ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4

Residential ☐ S-1 Moderate ☐ S-2 Low ☐ High-Pile ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage

Utility & Miscellaneous ☐

Accessory Occupancy Classification(s): _____

Incidental Uses (Table 509) _____

Special Uses (Chapter 4 - List Code Sections): _____

Special Provisions: (Chapter 5 - List Code Sections): _____

Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: _____

☐ Non-Separated Use (508.3) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.3.3) See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$x \quad + \quad x \quad = \quad x \quad + \quad x \quad = \quad x \leq 1.00$$

STORY NUMBER	DESCRIPTION AND USE	CONTINUED ALLOWABLE AREA			
		(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	B-PEDIATRIC OFFICE	3795	23,000	-	23,000
1	B-BUSINESS	7705	23,000	-	23,000

- Frontage area increase from Section 506.3 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = X (F).
 - Total Building Perimeter = X (P).
 - Ratio (F/P) = X (F/P).
 - W = Minimum width of public way = X (W).
 - Percent of frontage increase $1 + [100(F/P - 0.25)W/30] =$ %
- Unlimited area applicable under conditions of Section 507
- Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
- The maximum area of open parking garages must comply with 406.5.4.
- Frontage increase is based on the unsprinkled area value in Table 506.2

Type of Construction	ALLOWABLE HEIGHT		
	ALLOWABLE Type IIB	SHOWN ON PLANS Type IIB	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	Feet 55'	28'-4"	
Bldg Height in Stories (Table 504.4) ³	Stories 3	Stories 1	

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

BUILD ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	PROVIDED (w/ REDUCTION)	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North	NA	NA					
East	NA	NA					
West	NA	NA					
South	NA	NA					
Interior	NA	NA					
Nonbearing walls and partitions							
Exterior							
North	>30'	0					
East	>30'	0					
West	>30'	0					
South	>30'	0					
Interior walls & partitions							
Floor construction including supporting beams and joists	0						
Floor/Ceiling Assembly	0						
Columns Supporting Floors	0						
Roof construction including supporting beams and joists	0						
Roof/Ceiling Assembly	0						
Columns Supporting Roof	0						
Shafts Enclosure - Exit	NA						
Shafts Enclosure - Other	NA						
Corridor Separation	NA						
Occupancy/Fire Barrier Separation	NA						
Party/Fire Wall Separation	NA						
Smoke Barrier Separation	NA						
Tenant/Dwelling Unit/Sleeping Unit Separation	1 HR	1 HR	G-103	U 419			
Incidental Use Separation	NA						

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES > 30'-0" ALL SIDES	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLAN (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes

Exit Signs: ☐ No ☒ Yes

Fire Alarm: ☒ No ☐ Yes

Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial

Carbon Monoxide Detection: ☒ No ☐ Yes

Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: **G-LS1**

☒ Fire and/or smoke rated wall locations (Chapter 7)

NA ☐ Assumed and real property line locations (if not shown on Site Plan)

NA ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)

☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)

☒ Occupant loads for each area

☒ Exit access travel distance (1013)

☒ Common path of travel distances (Table 1006.2.1 & 1006.3.2(1))

☒ Dead end lengths (1020.4)

☒ Clear exits widths for each exit door

☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

☒ Actual occupant load for each exit door

NA ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

NA ☐ Location of doors with panic hardware (1010.1.10)

NA ☐ Location of doors with delayed egress locks and amount of delay (1010.1.9.7)

NA ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)

NA ☐ Location of doors equipped with hold-open devices

NA ☐ Location of emergency escape windows (1030)

NA ☐ The square footages of each fire area (202)

NA ☐ The square footages of each smoke compartment for Occupancy Classification I-2 (407.5)

NA ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)							
TOTAL OF UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NA							

ACCESSIBLE PARKING (SECTION 1108)						
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 13' ACCESS AISLE	8' ACCESS AISLE	
PARKING LOT	50	67	2		1	3
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE		WATERCLOSETS			LAVATORIES			SERVICE SINK	DRINKING FOUNTAINS
		MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		
B- PEDIATRIC OFF - 38	EXIST								
	NEW	1	1	1	1	1	1	1	1
	REQ'D	1	1	1	1	1	1	1	1

SPECIAL APPROVALS (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

2018 North Carolina State Administrative Code and Policies

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

EXISTING BUILDING: ☐ No ☒ Yes (The remainder of this section is not applicable)

EXISTING BUILDING: ☐ No ☐ Yes (Provide code or statutory reference): _____

CLIMATE ZONE: ☐ 3A ☒ 4A ☐ 5A

METHOD OF COMPLIANCE: Energy Code ☐ Performance ☒ Prescriptive

AHRAE 90.1 ☐ Performance ☐ Prescriptive

(if "Other" specify source here) _____

THERMAL ENVELOPE:

Roof/Ceiling Assembly (each assembly)

Description of assembly _____

U-Value of total assembly _____

R-Value of insulation _____

Skylights in each assembly _____

U-Value of skylight _____

total square footage of skylights in each assembly _____

Exterior walls (each assembly)

Description of assembly _____

U-Value of total assembly _____

R-Value of insulation _____

Openings (windows or doors with glazing)

U-Value of assembly _____

Solar heat gain coefficient _____

projection factor _____

Door R-Values _____

Walls adjacent to unconditioned space (each assembly)

Description of assembly **NA**

U-Value of total assembly _____

R-Value of insulation _____

Openings (windows or doors with glazing) _____

U-Value of assembly _____

Solar heat gain coefficient _____

projection factor _____

Door R-Values _____

Walls below grade (each assembly)

Description of assembly _____

U-Value of total assembly _____

R-Value of insulation _____

Floors over unconditioned space (each assembly)

Description of assembly **NA**

U-Value of total assembly _____

R-Value of insulation _____

Floor slab on grade

Description of assembly _____

U-Value of total assembly _____

R-Value of insulation _____

Horizontal/vertical requirements

Slab heated

STRUCTURAL SUMMARY

REFERENCE STRUCTURAL DRAWING SHEET **NA** FOR STRUCTURAL DESIGN LOADS AND INFORMATION

MECHANICAL SUMMARY

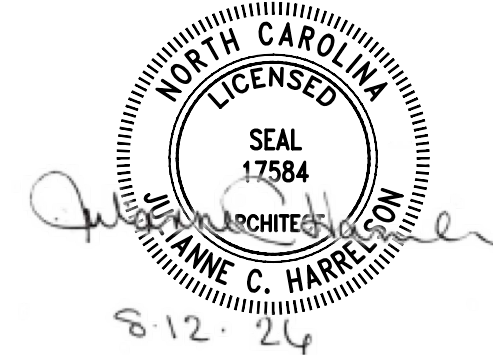
REFERENCE MECHANICAL DRAWING SHEET **M1** FOR MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

ELECTRICAL SUMMARY

REFERENCE ELECTRICAL DRAWING SHEET **E4** FOR ELECTRICAL SYSTEMS AND EQUIPMENT



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ESENSOY MEDICAL CENTER

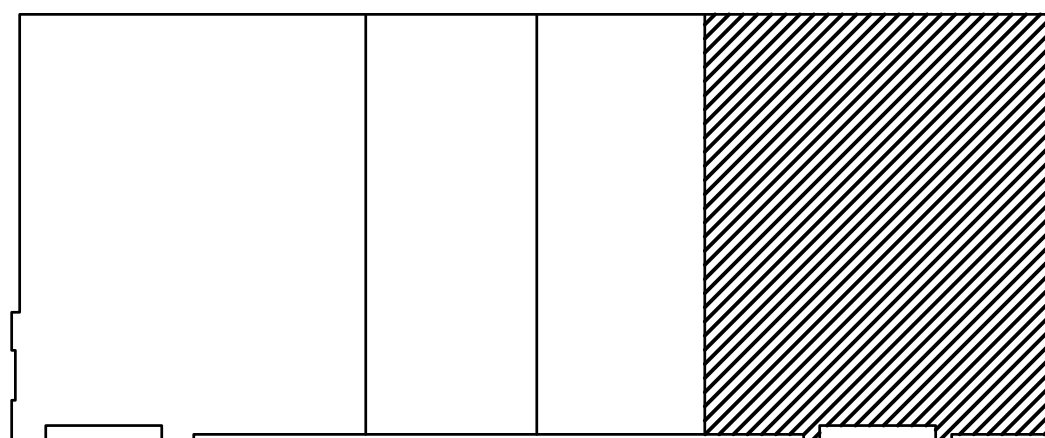
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PROJECT #: 26-121
DATE: 5/30/26
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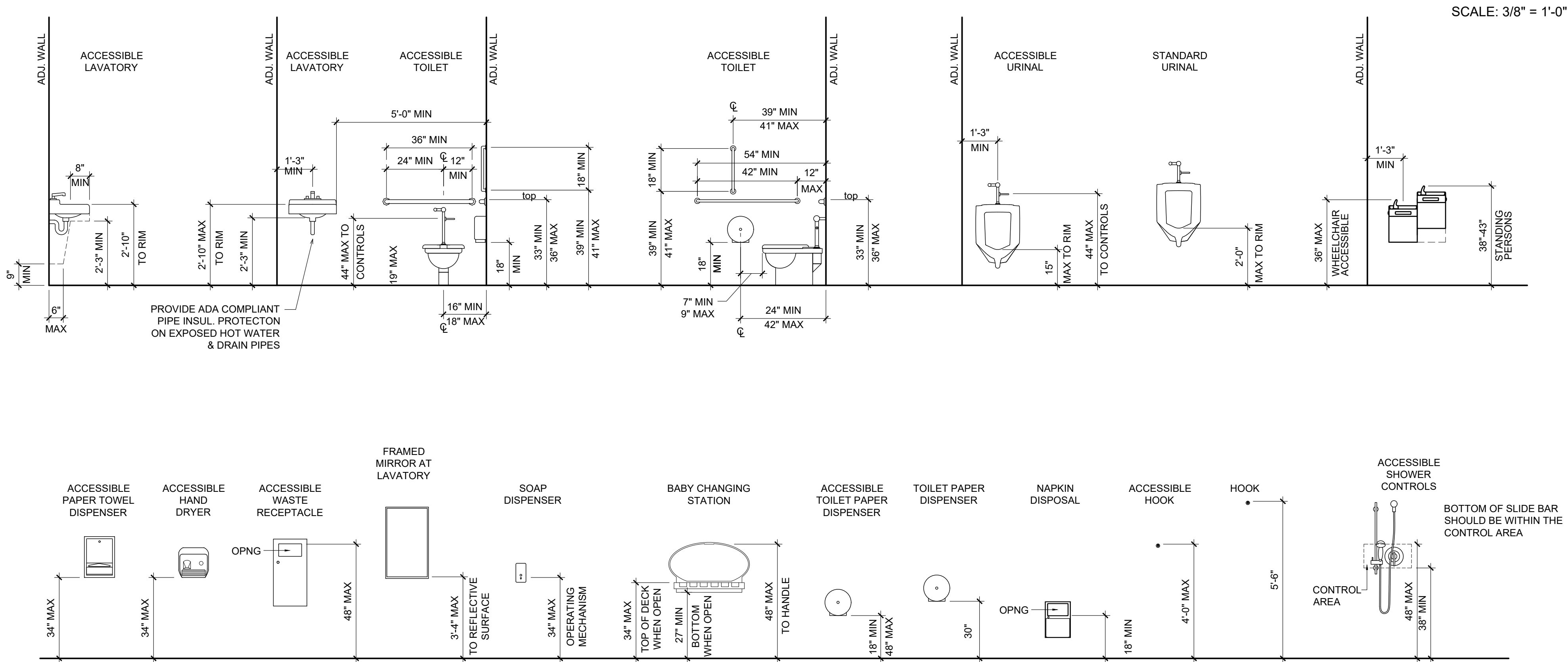
PEDIATRIC OFFICE

BUILDING CODE
SUMMARY

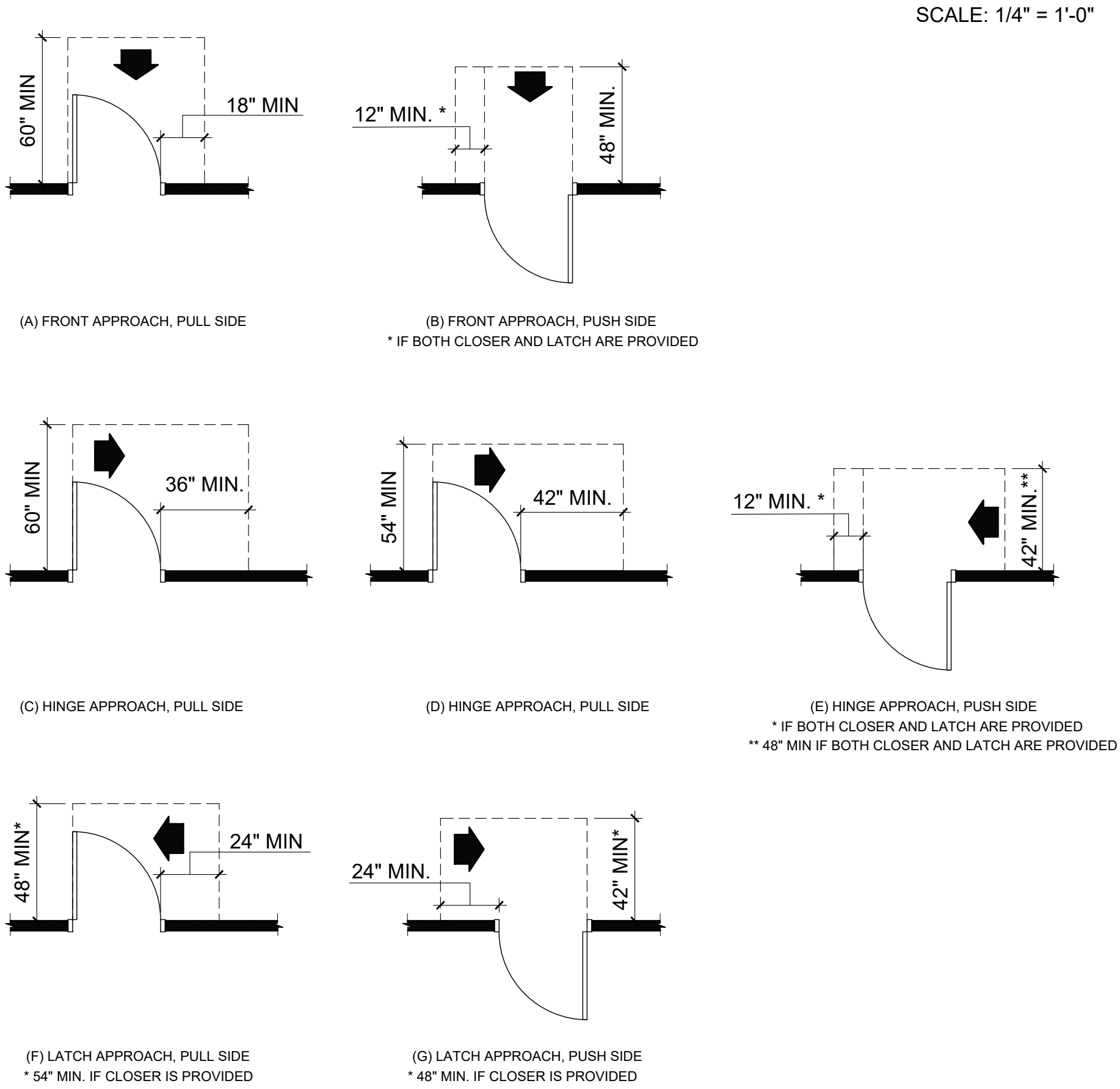
G-101d

KEY PLAN
PEDIATRIC
OFFICE

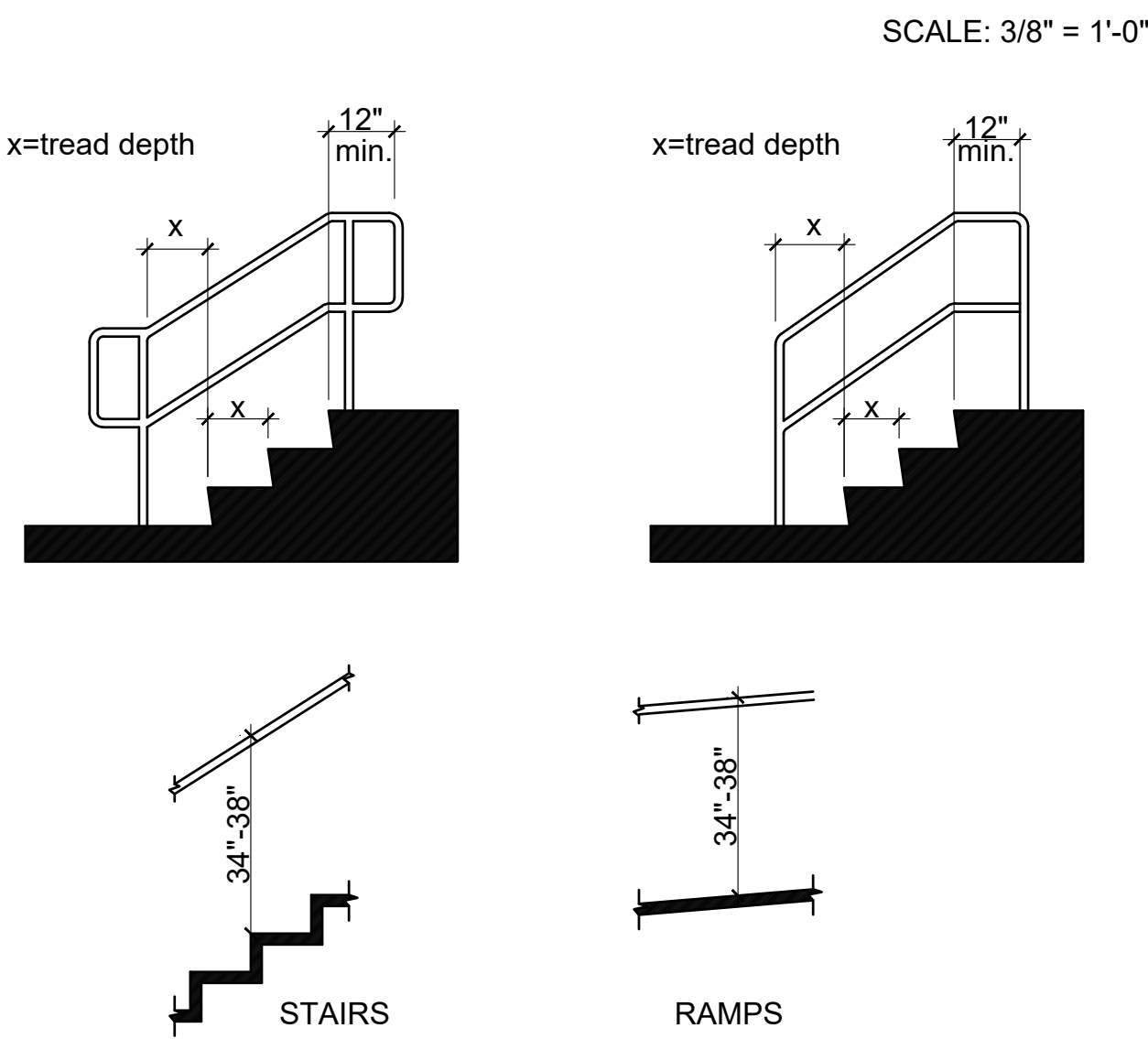
MOUNTING HEIGHTS



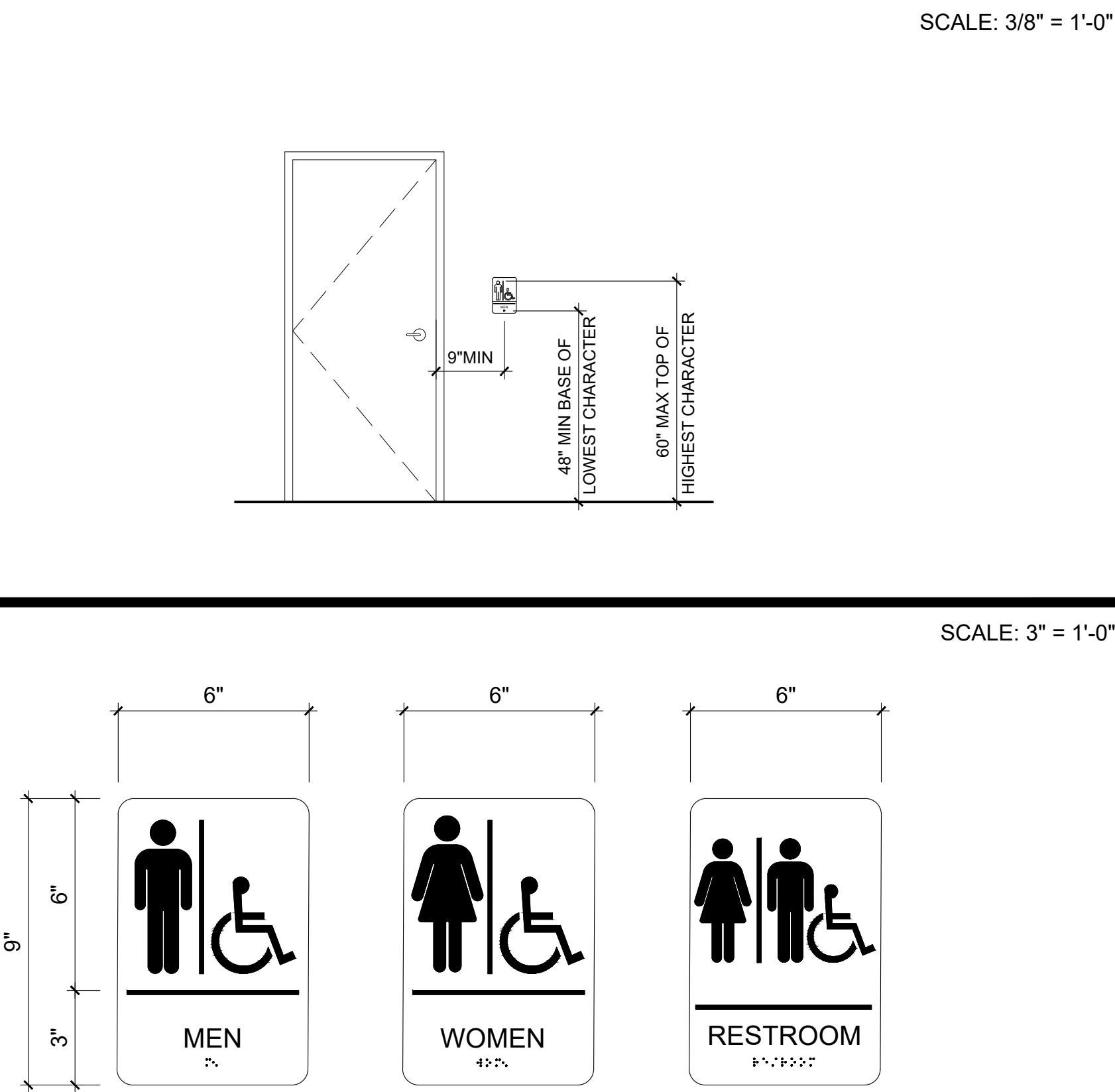
ACCESSIBLE CLEARANCES AT MANUAL SWINGING DOORS



ACCESSIBLE HANDRAILS



ACCESSIBLE SIGNAGE



- NOTES:
- CHARACTERS SHALL BE SANS SERIF.
 - CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND, OR DARK CHARACTERS ON A LIGHT BACKGROUND.
 - SIGNAGE SHALL MEET ALL OTHER REQUIREMENTS OF THE CURRENT ICC A117.1 ACCESSIBILITY CODE.
 - GENERAL CONTRACTOR TO PROVIDE ADA SIGNAGE AS REQUIRED.



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8-12-24

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ESENSOY MEDICAL CENTER

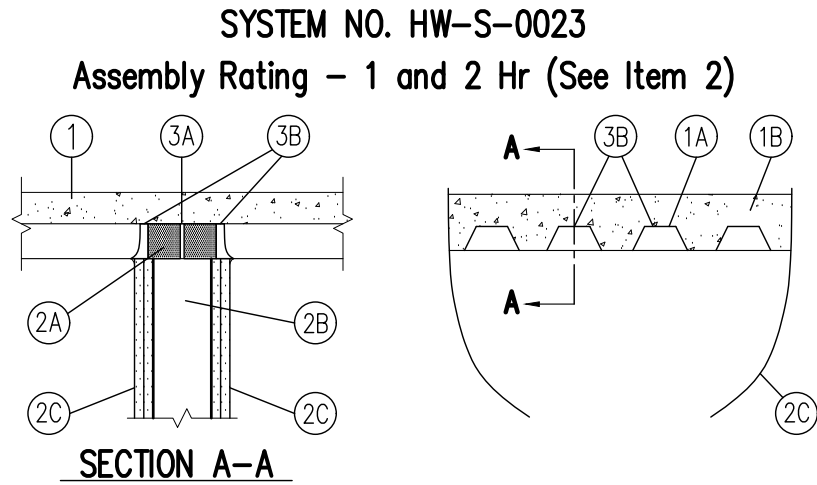
800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS

PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

GENERAL INFORMATION

G-102

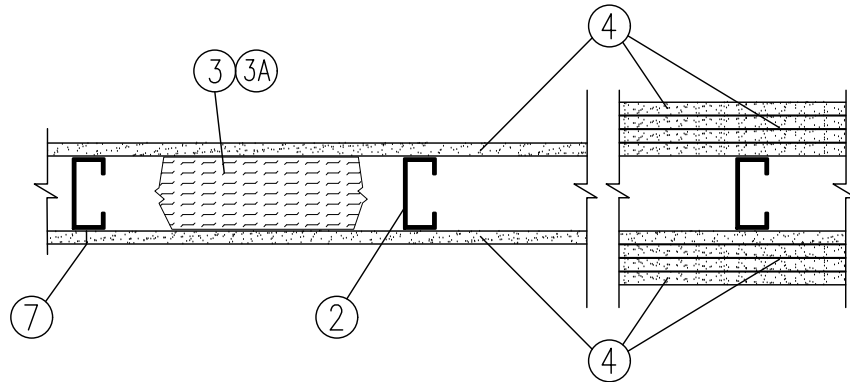


1. **FLOOR ASSEMBLY** – The fire rated fluted steel deck/concrete floor assembly shall be constructed of the materials and the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **STEEL FLOOR AND FORM UNITS *** – Composite or noncomposite max 3 in. deep min. 22 galv or phos/painted fluted units. Adjacent units button-punched or welded together max 36 in. OC along side joints.
 - B. **NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE** – Min 2-1/2 in. thick concrete of the type, density and compressive strength detailed for the specific Floor-Ceiling Design described in the UL Fire Resistance Directory.
2. **WALL ASSEMBLY** – The 1 or 2 Hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **STEEL FLOOR AND CEILING RUNNERS** – Floor and ceiling runners of wall assembly shall consist of min 25 ga galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with min 1-1/4 in. flanges. Ceiling runner secured to valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. OC.
 - B. **STUDS** – Min 3-1/2 in. wide by 1-1/4 in. deep corrosion protected min 25 MSG steel channels. Steel stud spacing not to exceed 24 in. OC.
 - C. **GYPSUM BOARD *** – 5/8 in. thick, 4 ft. wide square or tapered edges. Wallboard sheets installed vertically on both sides of stud framing with joints centered over studs. Wallboard to be butted tight to bottom of the steel deck. The gypsum wallboard type, thickness, number of layers and fastener types shall be as specified in the individual U400 Series Design in the UL Fire Resistance Directory.
3. **JOINT SYSTEM** – The joint system consist of a forming material and a fill material in the flutes of the steel floor units, as follows:
 - A. **PACKING MATERIAL** – Min 3-3/4 in. thickness of min 4.0 pcf mineral wool batt insulation, tightly packed into flutes of the steel floor units between the top of the ceiling runner and bottom of the steel floor units, and recessed from each surface of wall to accommodate the required thickness of fill material.
 - B. **FILL, VOID OR CAVITY MATERIAL *** – Min 3/8 in. thickness of fill material installed on each side of the wall in the flutes of the steel floor units. An additional min 3/8 in. bead of fill material to be installed at the wallboard/steel deck interface.

RECTORSEAL – Metacualk 835+

* Bearing the UL Classification Mark.

DESIGN NO. U419
Nonbearing Wall Rating
1,2,3 or 4 Hr (See Items 3 & 4)



1. **FLOOR AND CEILING RUNNERS** – (Not shown) – Channel shaped fabricated from 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
 2. **STEEL STUDS** – Channel shaped fabricated from 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
 3. **BATTS AND BLANKETS*** – (Required as indicated under Item 4) – Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.
 - 3A. **BATTS AND BLANKETS*** – (Optional) – Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.
 4. **GYPSUM BOARD*** – Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer/ 5/8 in. thick	Optional
1	2-1/2	1 layer/ 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer/ 3/4 in. thick	Optional
2	1-5/8	2 layer/ 1/2 in. thick	Optional
2	1-5/8	2 layer/ 5/8 in. thick	Optional
2	3-1/2	1 layer/ 3/4 in. thick	3 in.
3	1-5/8	3 layer/ 1/2 in. thick	Optional
3	1-5/8	2 layer/ 3/4 in. thick	Optional
3	3-1/2	3 layer/ 5/8 in. thick	Optional
4	1-5/8	4 layer/ 5/8 in. thick	Optional
4	1-5/8	4 layer – in. thick	Optional
4	2-1/2	2 layer/ 3/4 in. thick	2 in.
- CANADIAN GYPSUM COMPANY** – 1/2 in. thick Type C, IP-X2, or IPC-AR; WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHX or ULTRACODE WRX.
- UNITED STATES GYPSUM CO** – 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHX or ULTRACODE WRX.
- YESO PANAMERICANO S A DE C V** – 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHX or ULTRACODE WRX.
- 4A. **GYPSUM BOARD*** – (As an alternate to Item 4) – 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5.

CANADIAN GYPSUM COMPANY – Type FRX
UNITED STATES GYPSUM CO – Type FRX

- 4B. **GYPSUM BOARD*** – (As an alternate to Item 4 and 4A) – 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (item 7) not required.

CANADIAN GYPSUM COMPANY – Type SHX
UNITED STATES GYPSUM CO – Type SHX
YESO PANAMERICANO S A DE C V – Type SHX

5. **FASTENERS** – (Not shown) – Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6).
 - Single-layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 12 in. OC when panels are applied vertically.
 - Two-layer systems:** First layer – 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer – 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.
 - Three-layer systems:** First layer – 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer – 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer – 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
 - Four-layer systems:** First layer – 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer – 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer – 2-1/4 in. long for 1/2 in.; or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer – 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6. **FURRING CHANNELS** – (Optional, not shown, for single or double layer systems) Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type s-12 steel screws. Not for use with Item 4A.

7. **JOINT TAPE AND COMPOUND** – Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer panels.

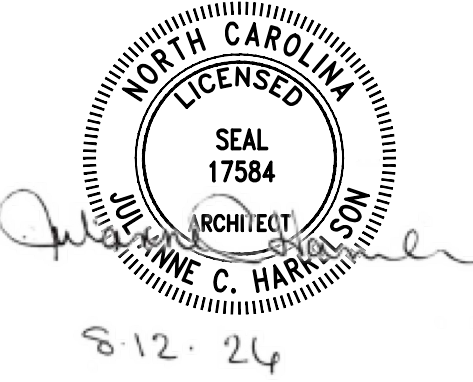
8. **CAULKING AND SEALANT*** – (Optional, Not shown) – A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO – Type AS

* Bearing the UL Classification Mark.



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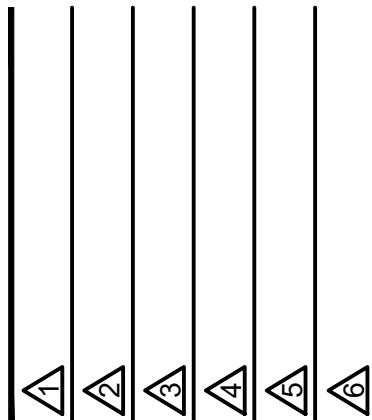


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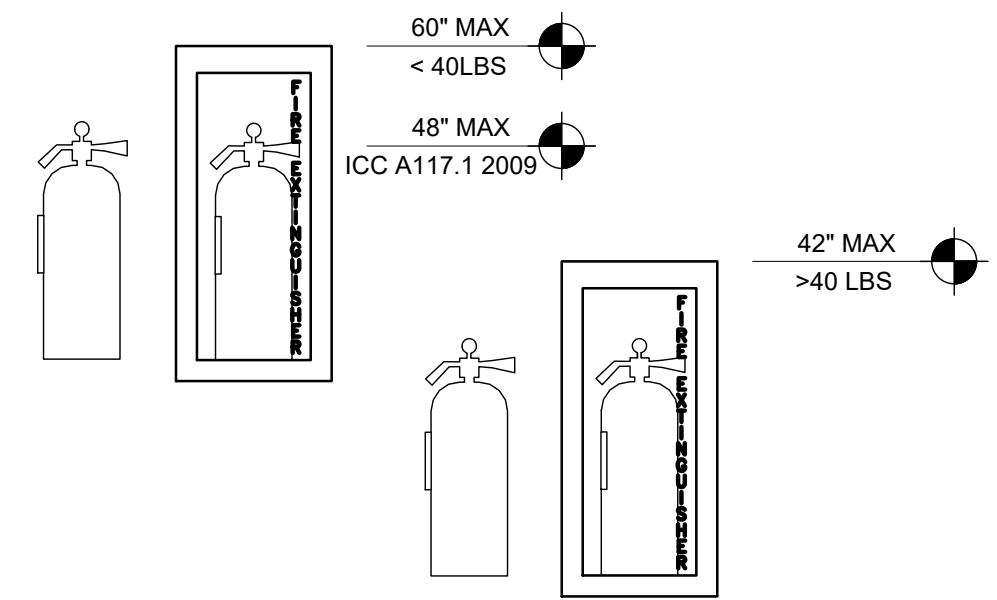
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DATE: 5.30.26
DRAWN BY: J.C.H.
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UL LISTINGS

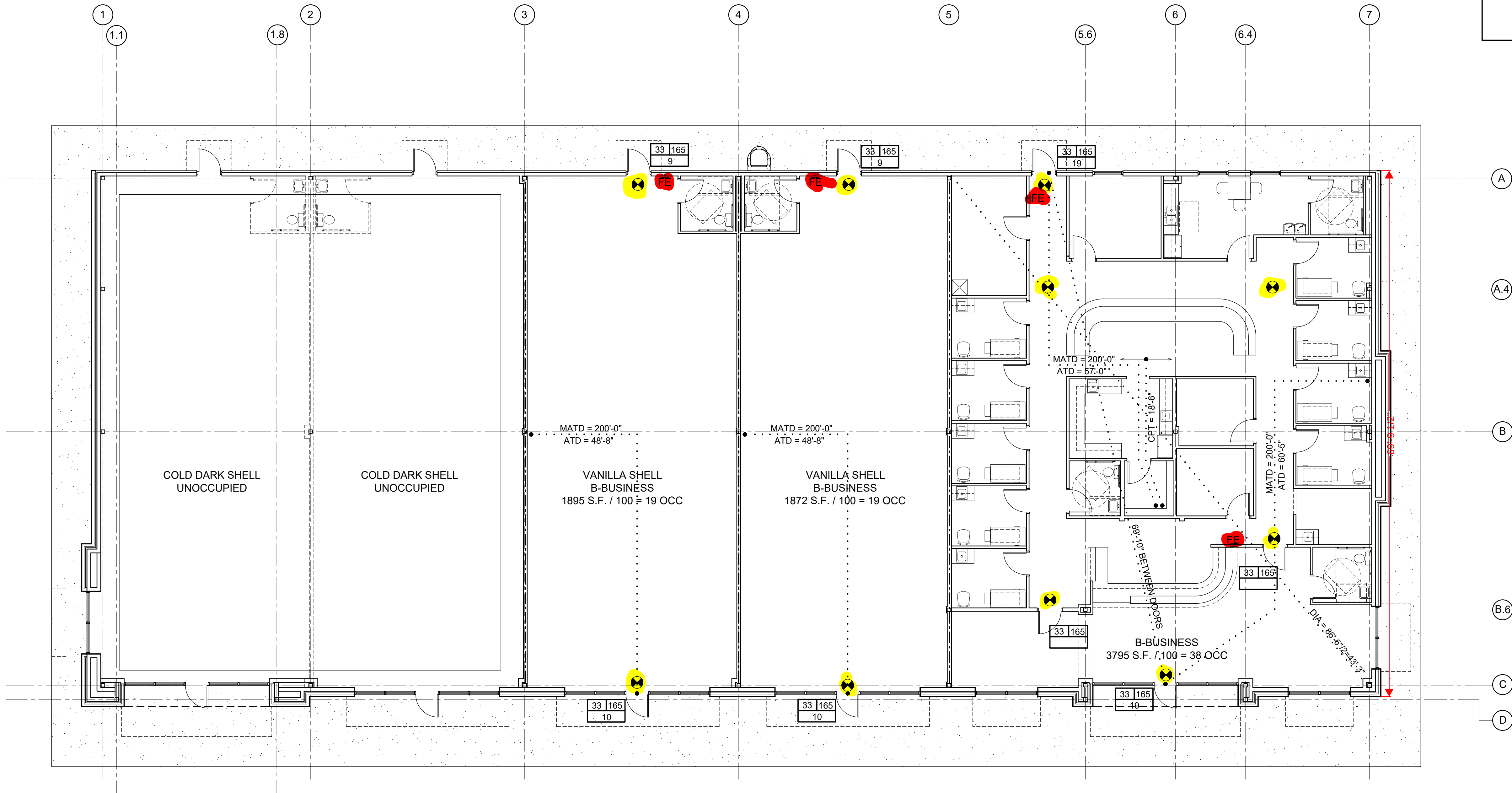
G-103



4" MIN ABOVE THE FLOOR
FINISH FLOOR

- NOTES:
- SEE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE EXTINGUISHERS.
 - PROVIDE RATED CABINET ENCLOSURE IN ACCORDANCE WITH RATED WALL CONSTRUCTION.
 - MAX REACH HEIGHT IS 48" TO THE TOP OF THE HANDLE PER ICC-A117.1-2009.

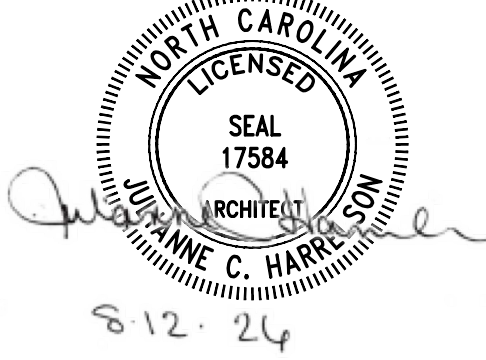
1 FIRE EXTINGUISHER MOUNTING HTS.
N.T.S.



2 LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY LEGEND

- PANIC OR ELECTROMAGNETIC LOCK
- STAIR/DOOR EGRESS WIDTH
- STAIR/DOOR EXIT CAPACITY ANTICIPATED LOAD
- 42
- MCPT = 75'-0"
CPT = 0'-0"
- MATD = 200'-0"
ATD = 0'-0"
- DEC = 18'-0"
- 1 HOUR RATED
- 2 HOUR RATED
- 4 HOUR RATED
- SEMI-RECESSED FIRE EXT. CABINET
- WALL HUNG FIRE EXT.
- EMERGENCY LIGHTS
- EXIT LIGHT
- EXIT LIGHT/EMERGENCY LIGHT



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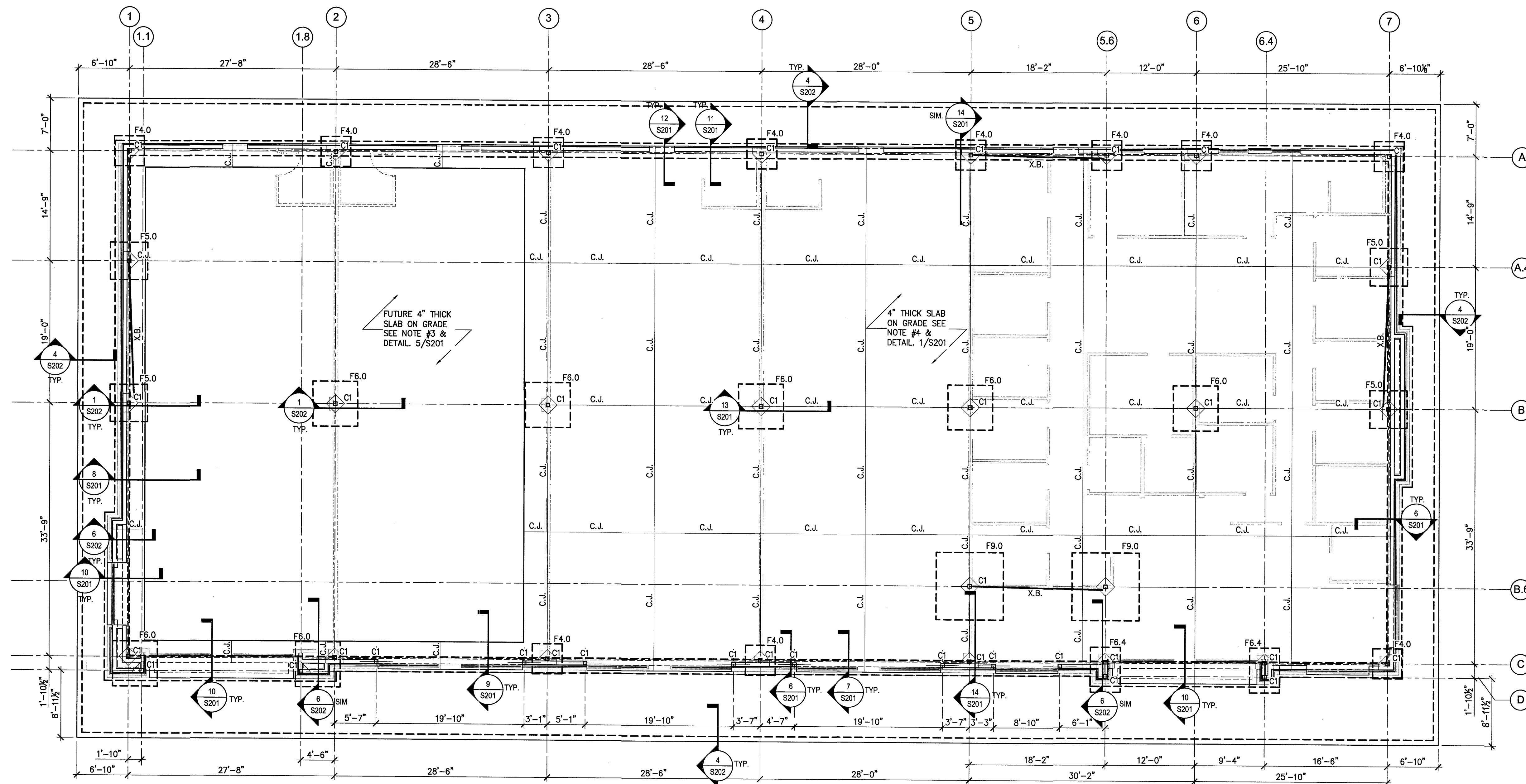
PROJECT #: 26-121
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CHECKED BY :

LIFE SAFETY PLAN

G-LS1

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FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

- SEE SHEET S401 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
- TOP OF SLAB REFERENCE ELEVATION = 0'-0" UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS.
- AT AREA WHERE INTERIOR SLAB WILL NOT BE POURED CURRENTLY, COMPACT THE GRADE AND PROVIDE 4" COMPACTED GRANULAR FILL AND 10 MIL VAPOR BARRIER BELOW. FUTURE SLAB TO BE 4" THICK CONCRETE W/ 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC. SEE DETAIL 5/S201
- CONCRETE FLOOR SLAB IS 4" THICK WITH 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC. PROVIDE 10 MIL VAPOR BARRIER AND 4" COMPACTED GRANULAR BASE UNDER SLAB. SEE DETAIL 1/S201
- ALL EXTERIOR WALL STRIP FOOTINGS SHALL BE 2'-0" WIDE UNLESS OTHERWISE NOTED ON THE PLAN.
- SEE DETAIL 5/S202 FOR TYPICAL FOOTING STEP.
- THE TOP OF ALL EXTERIOR WALL STRIP FOOTINGS SHALL BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED ON THE PLAN.
- THE TOP OF ALL EXTERIOR COLUMN SPREAD FOOTINGS SHALL BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED ON THE PLAN. THE TOP OF ALL INTERIOR COLUMN SPREAD FOOTINGS SHALL BE AT ELEVATION -0'-8" UNLESS OTHERWISE NOTED ON THE PLAN.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS.
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MASONRY OPENINGS NOT SHOWN.
- FOR FOOTING, BASE PLATE AND ANCHOR BOLT DETAIL, SEE SHEET S201.
- SEE DETAIL 4/S201 FOR SLAB CORNER REINFORCEMENT.

FOUNDATION PLAN LEGEND

F4.0	DENOTES COLUMN CONCRETE SPREAD FOOTING WITH FOOTING MARK - SEE FOOTING SCHEDULE ON S101 FOR SIZE AND REINFORCING
C1	DENOTES STEEL COLUMN WITH COLUMN MARK AND ISOLATION JOINT - SEE COLUMN SCHEDULE ON THIS SHEET FOR COLUMN SIZE, BASE PLATE SIZE AND QUANTITY, AND SIZE OF ANCHOR BOLTS. SEE DETAIL 8 & 9/S201 FOR ADDITIONAL INFORMATION
-S-	DENOTES FOOTING STEP - SEE DETAIL 5/S202 FOR ADDITIONAL INFORMATION
C.J.	DENOTES SLAB ON GRADE CONSTRUCTION OR SAWCUT CONTROL JOINT - SEE DETAILS 3/S201 AND 2/S201 FOR ADDITIONAL INFORMATION
///	DENOTES A EXTERIOR SEAR WALL - SEE DETAIL
	DENOTES A LOCATION OF A STUD-PACK COLUMN CONSISTING OF (4) GANGED STUDS
X.B.	DENOTES 'DIAGONAL BRACING SEE DETAIL 2/S302
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'
■	DENOTES HOLD DOWN LOCATIONS SEE DETAILS 1 & 2/S401. USE 'SIMPSON HDU8-SDS2.5' HOLD-DOWN ANCHOR.

COLUMN SCHEDULE

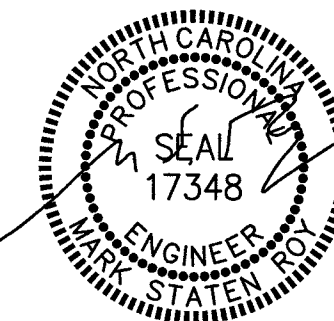
MARK	COL. SIZE	BASE PL. SIZE	ANCH. BOLT DIA.	REMARKS
C1	HSS 6 x 6 x 1/4	3/4" x 12" x 0'-12"	3/4"	4 BOLTS

FOOTING SCHEDULE

MARK	FTG. SIZE	REINFORCEMENT	REMARKS
F4.0	4'-0" x 4'-0" x 1'-0"	(5) #4 EA. WAY, TOP (5) #5 EA. WAY, BOT.	-
F5.0	5'-0" x 5'-0" x 1'-0"	(6) #4 EA. WAY, TOP (6) #5 EA. WAY, BOT.	-
F6.0	6'-0" x 6'-0" x 1'-0"	(7) #4 EA. WAY, TOP (7) #5 EA. WAY, BOT.	-
F9.0	9'-0" x 9'-0" x 1'-0"	(10) #4 EA. WAY, TOP (10) #5 EA. WAY, BOT.	-
F7.4	7'-0" x 4'-0" x 1'-0"	(8) #4 SHORT WAY, TOP (8) #5 SHORT WAY, BOT. (5) #4 LONG WAY, TOP (5) #5 LONG WAY, BOT.	-

NOTE:

- S.W.=> SHORT WAY.
- L.W.=> LONG WAY.
- E.W.=> EACH WAY



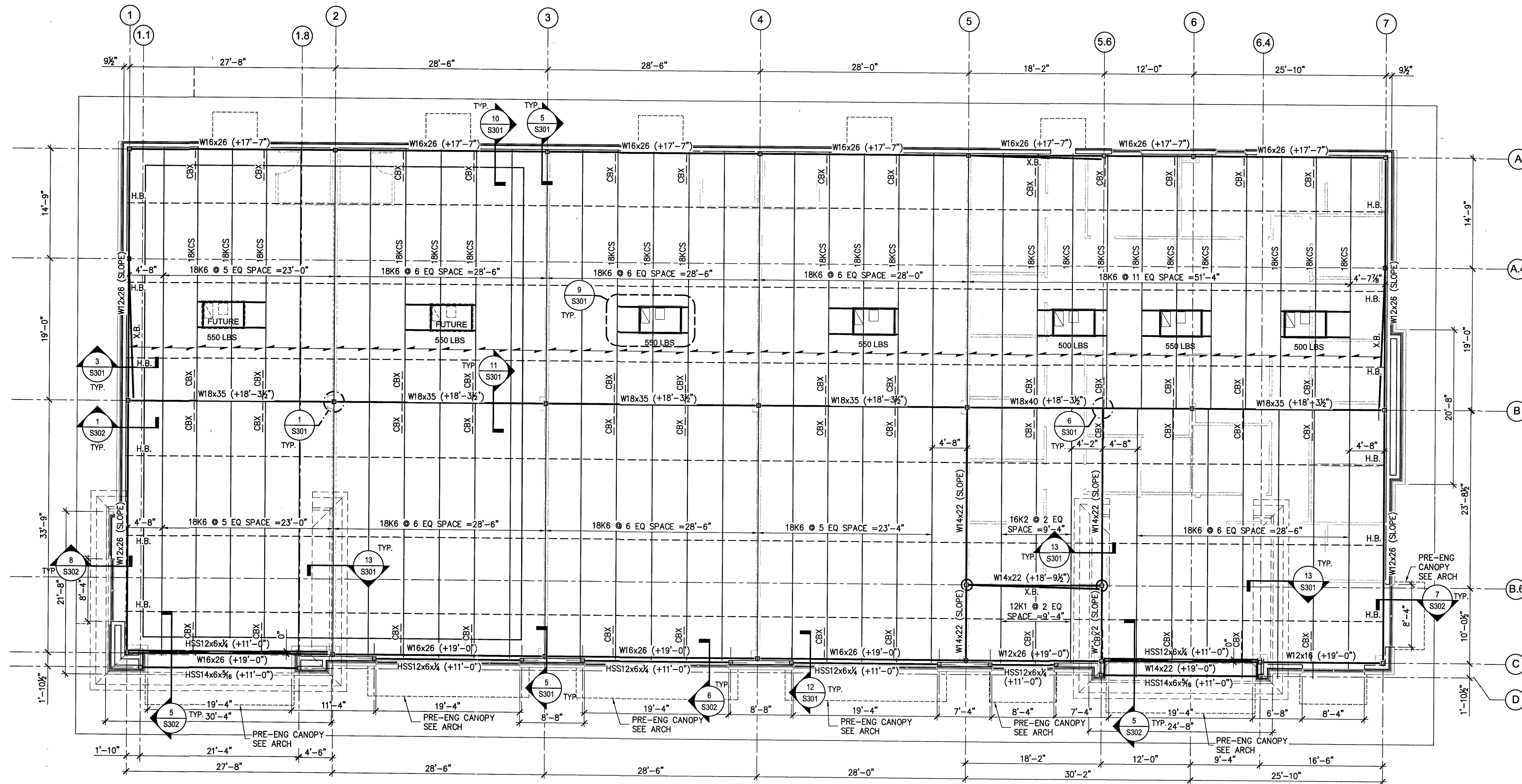
RPA ENGINEERING, P.A.
Structural Engineering Solutions
Engineering License Certificate No. C-2734
1 Commerce Square, Suite 202
Washington, NC 27889
Phone: 252-321-6027
Fax: 252-355-2179
RPA Project No.: 2026067

REVISIONS

PROJECT #: 26-121
DATE: 05-31-2026
DRAWN BY: RPA/MSR
CHECKED BY: RPA/GBP

**FOUNDATION PLAN,
PLAN NOTES &
SCHEDULES**

S101



ROOF FRAMING PLAN
3/16" = 1'-0"

ROOF FRAMING PLAN NOTES:

- SEE SHEET S401 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
- COORDINATE ROOF OPENINGS WITH MECHANICAL AND PLUMBING DRAWINGS.
- ROOF DECK IS 1/2" 20 GA. WIDE RIB (S.D.I. TYPE WR-22). SEE NOTES ON SHEET S401 FOR ADDITIONAL INFORMATION.
- SEE DETAIL 2/S301 FOR ROOF DECK CONSTRUCTION INFORMATION.
- TOP OF STEEL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR REFERENCE ELEVATION 0'-0". SEE ARCHITECTURAL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION.

ROOF FRAMING PLAN LEGEND

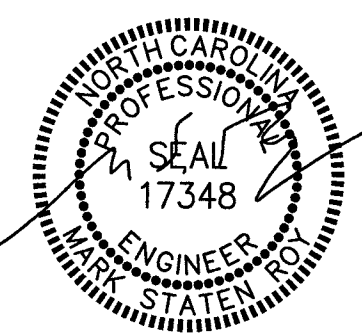
	DENOTES DIRECTION OF DECK SPAN
W 14 x 22 (+X'-X")	STEEL BEAM WITH SIZE AND TOP OF STEEL REFERENCE ELEVATION
+XX'-X"	JOIST BEARING ELEVATION SEE PLAN
X.B.	DENOTES 'DIAGONAL BRACING SEE DETAIL 2/S302
H.B.	DENOTES 'DIAGONAL BRACING SEE DETAIL 3/S301
BCX	DENOTES 'BOTTOM CHORD EXTENSION' SEE DETAIL 4 & 12/S301 TYP.
U.N.O.	DENOTES 'UNLESS NOTED OTHERWISE'

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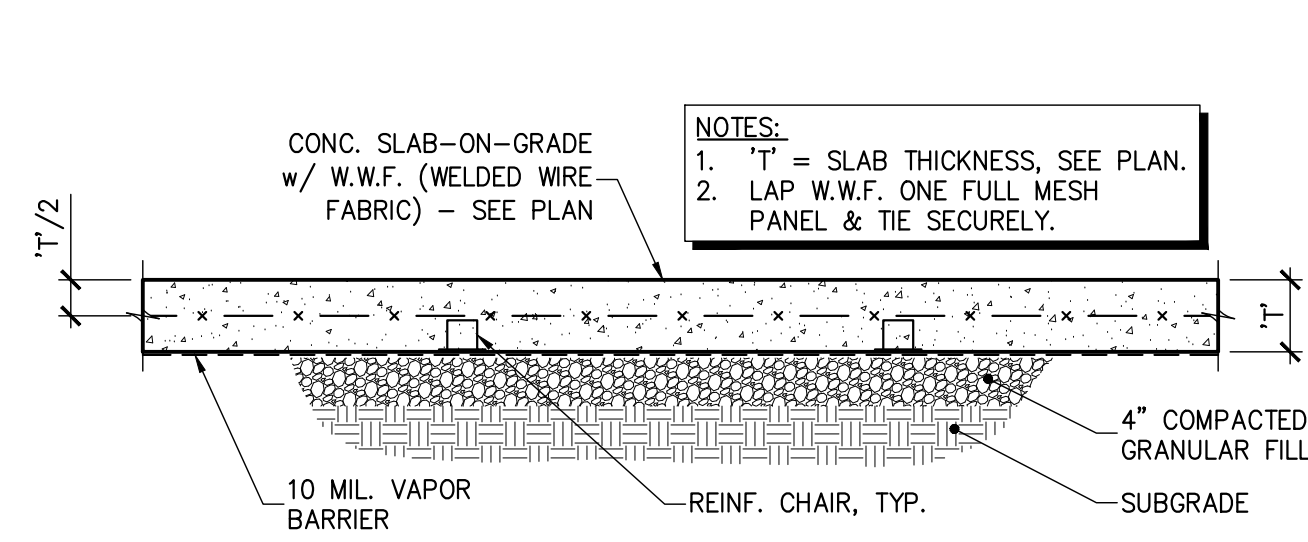
1 Commerce Square,
Suite 202
Washington, NC 27889

Phone: 252-321-6027
Fax: 252-355-2179

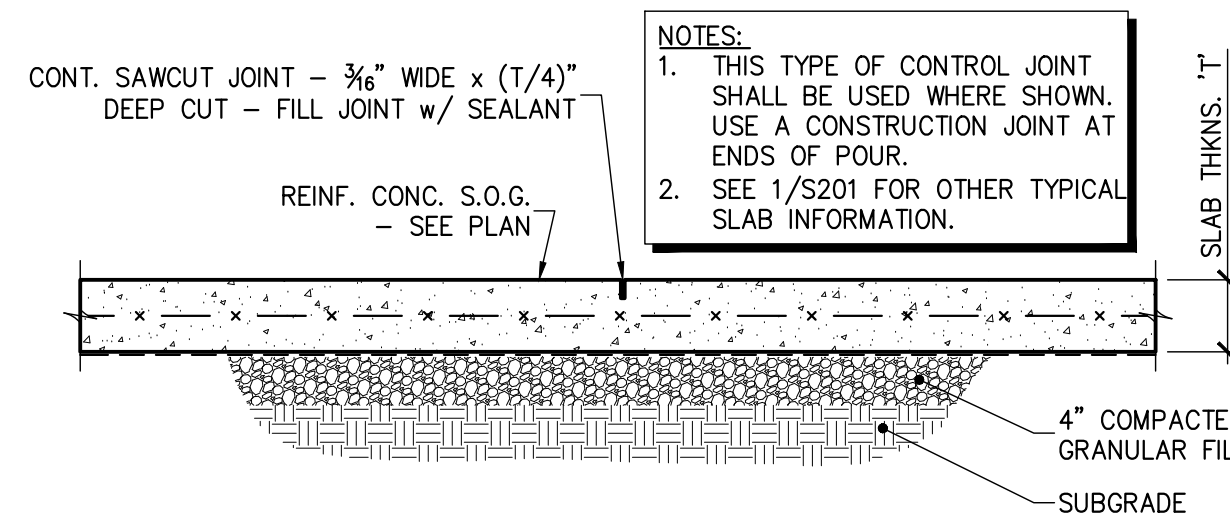
RPA Project No.: 2026067

**ROOF FRAMING
PLAN, PLAN NOTES
& SCHEDULES**

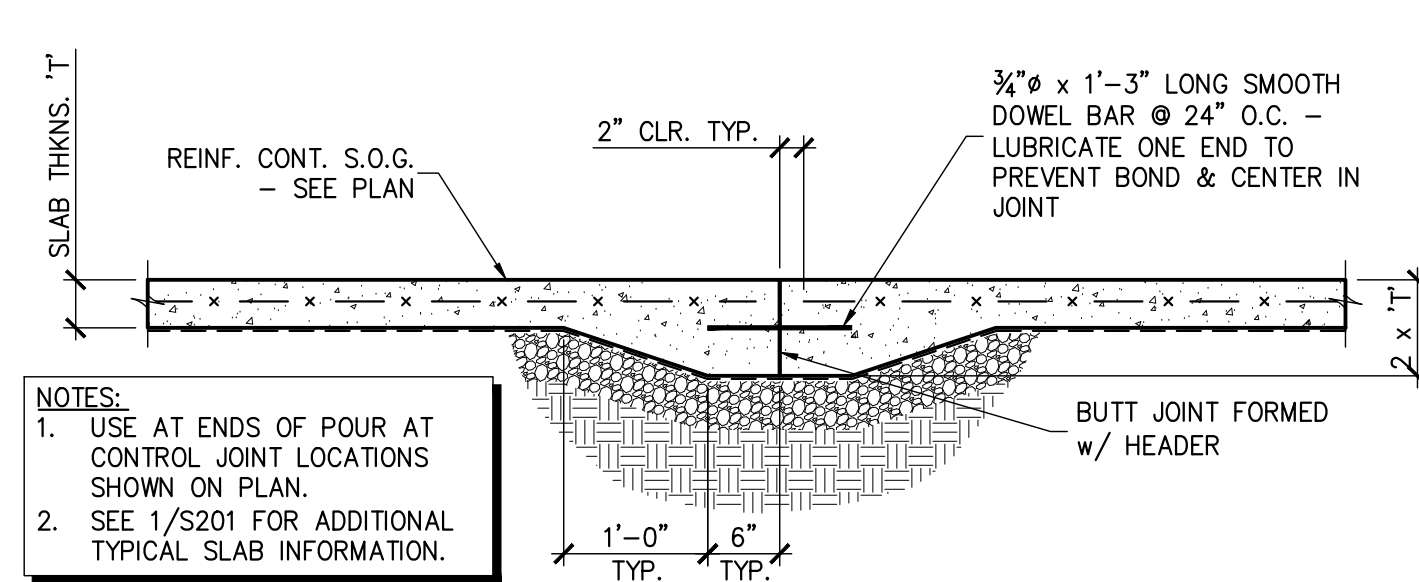
S102



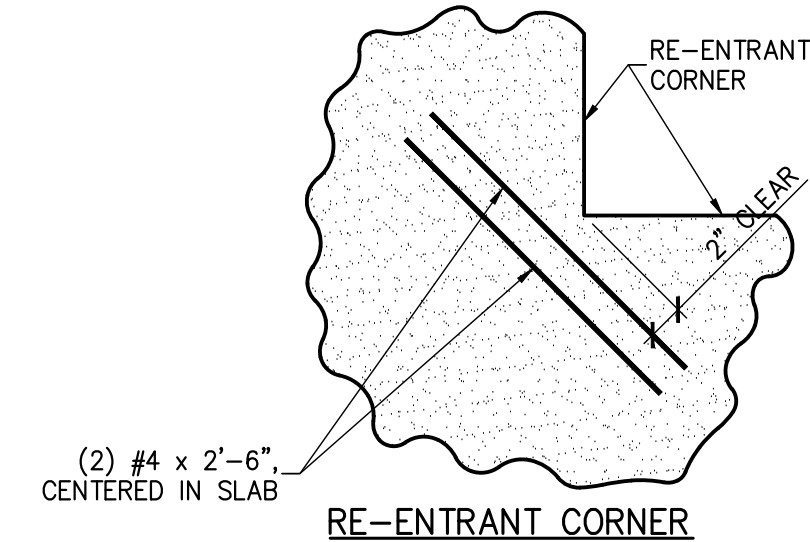
1 SECTION - TYP. SLAB ON GRADE
S201 3/4" = 1'-0"



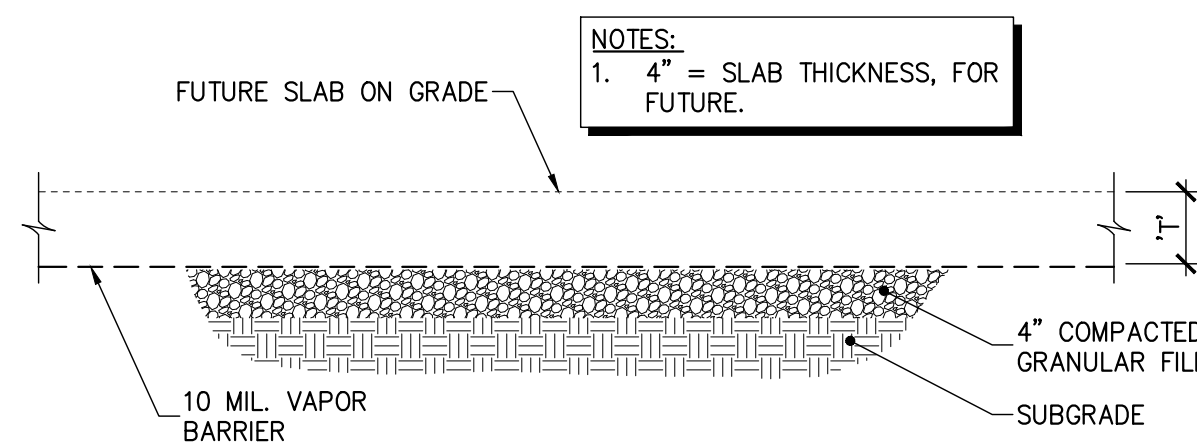
2 SECTION - TYP. CONTROL JOINT
S201 3/4" = 1'-0"



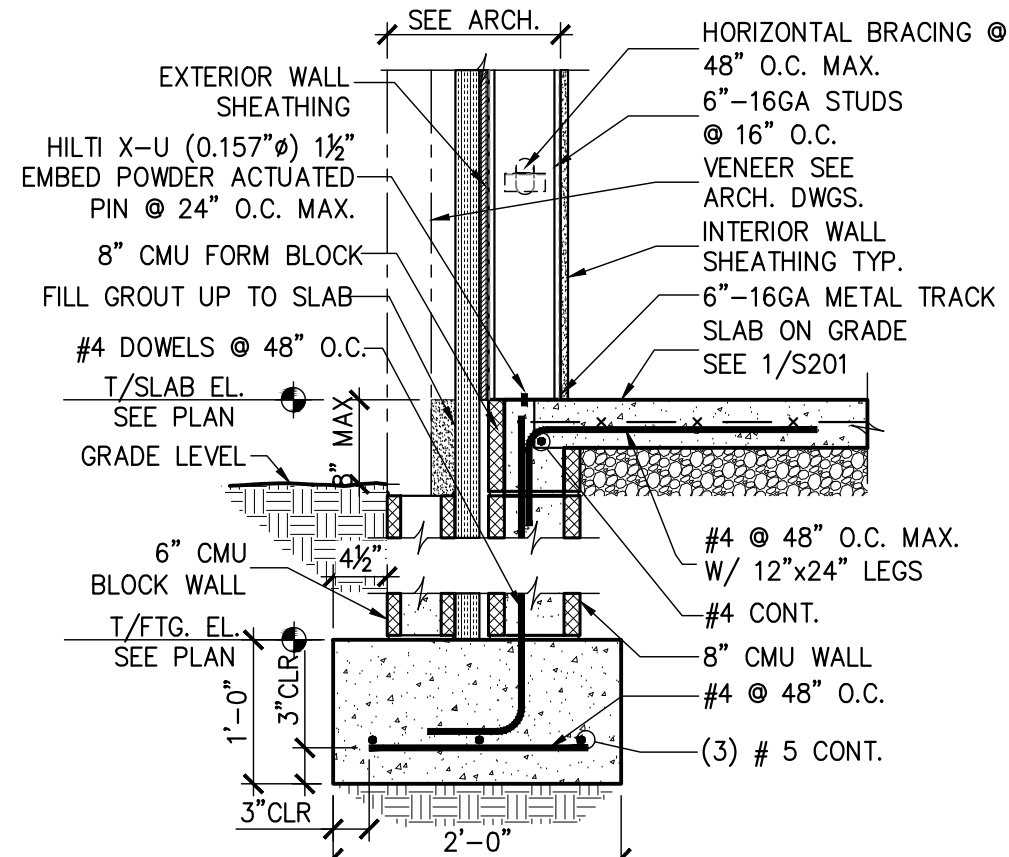
3 SECTION - TYP. CONSTRUCTION JOINT
S201 3/4" = 1'-0"



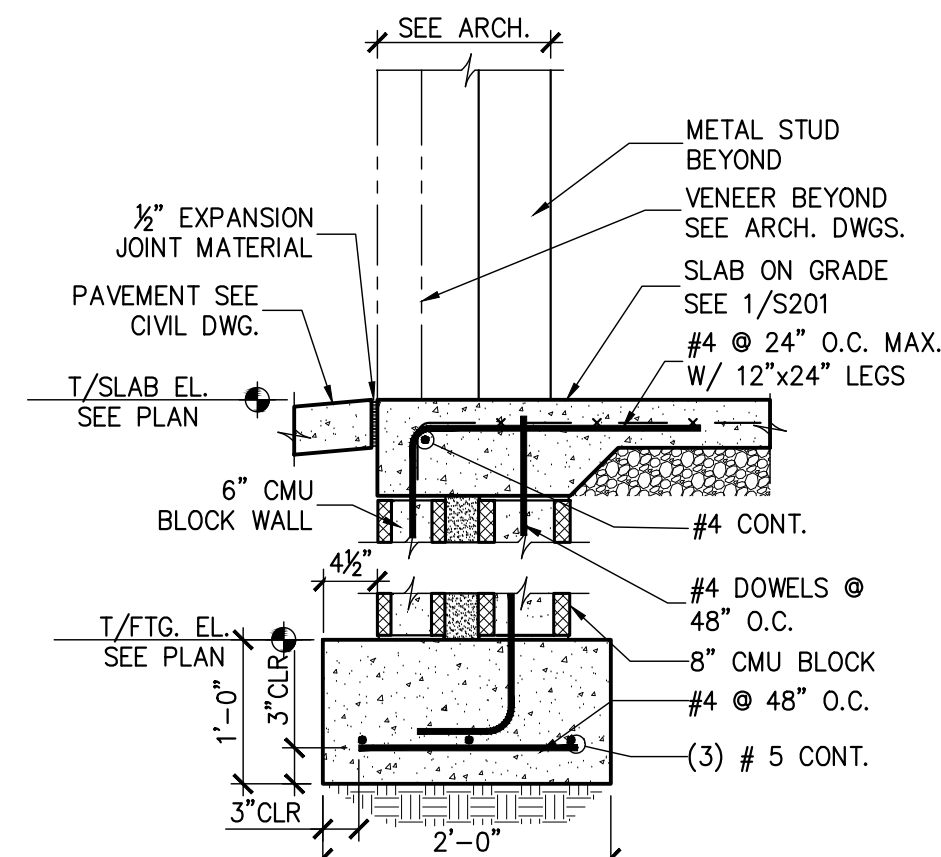
DETAIL - TYP.
4 REINF. @ SLAB CORNERS
S201 3/4" = 1'-0"



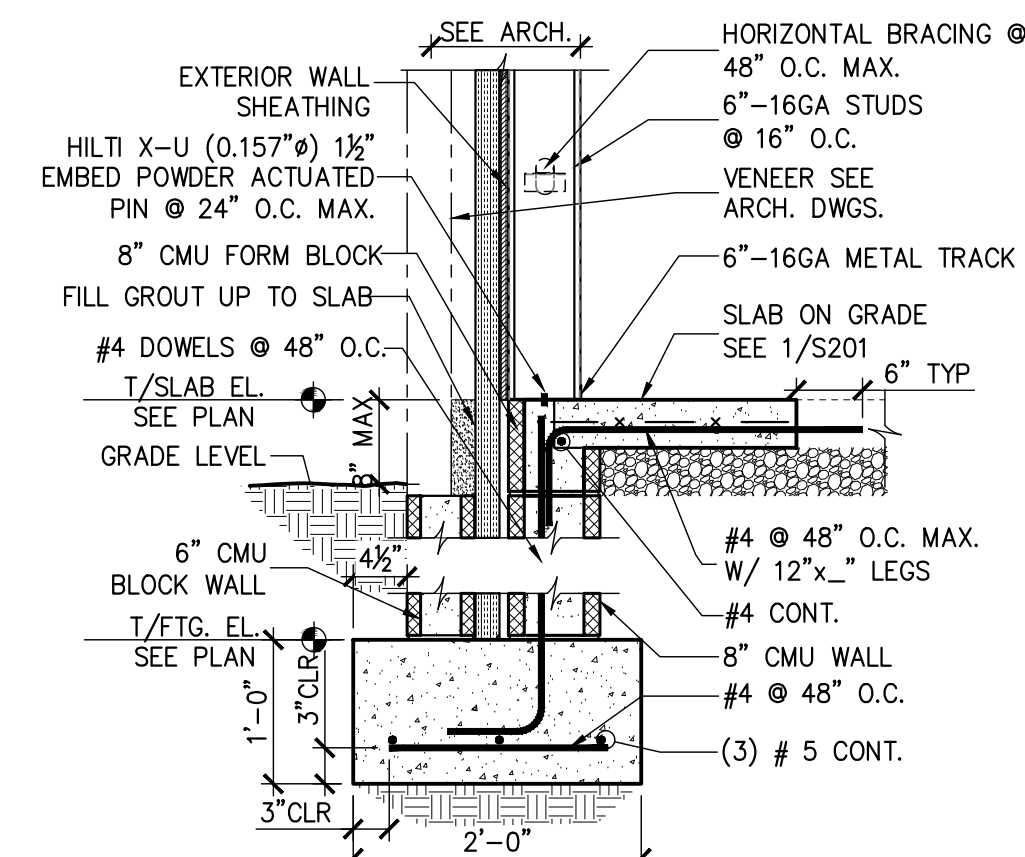
5 SECTION - TYP. SLAB ON GRADE
S201 3/4" = 1'-0"



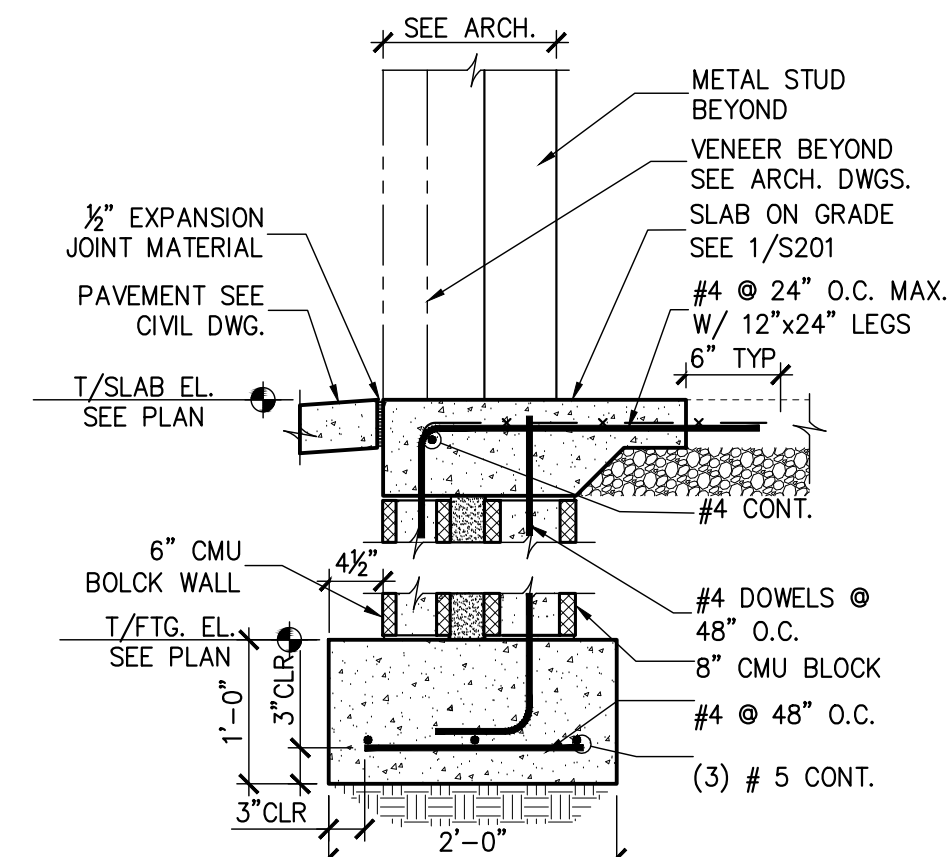
6 SECTION - TYP. EXT. WALL FTG.
S201 3/4" = 1'-0"



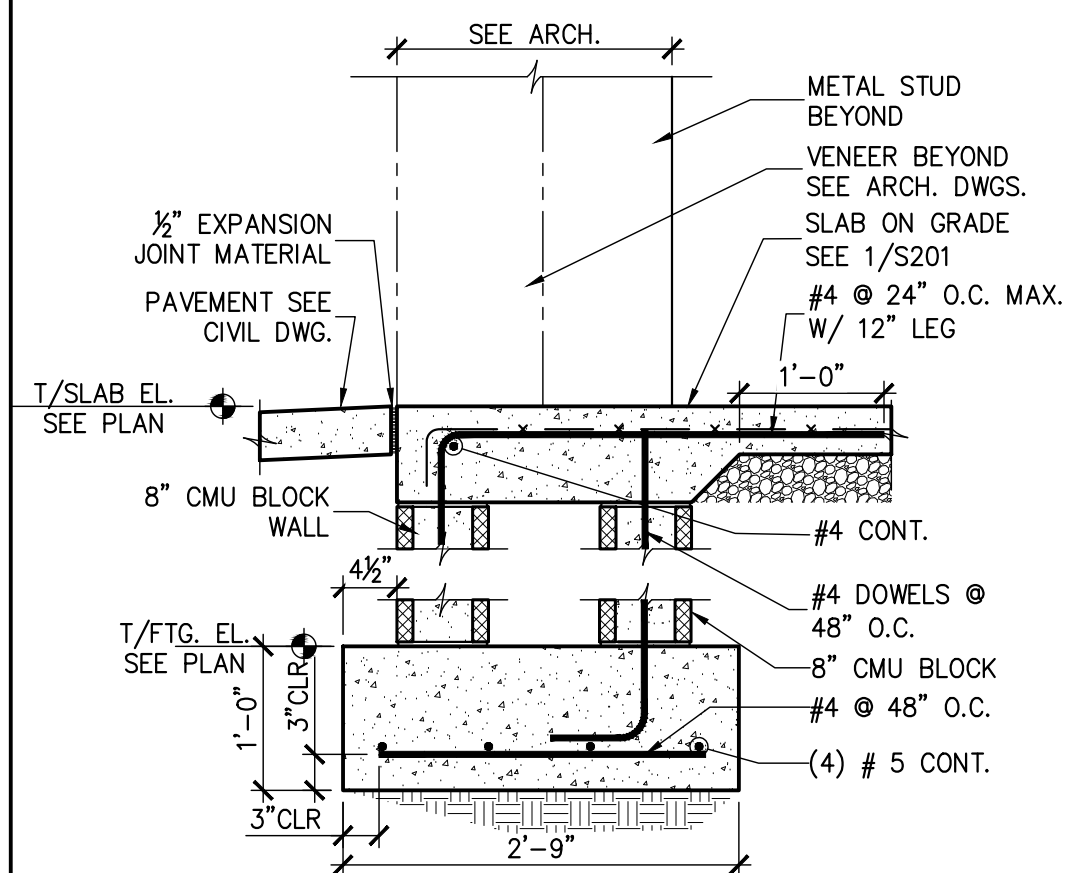
7 SECTION - TYP. WALL FTG. @ DOOR
S201 3/4" = 1'-0"



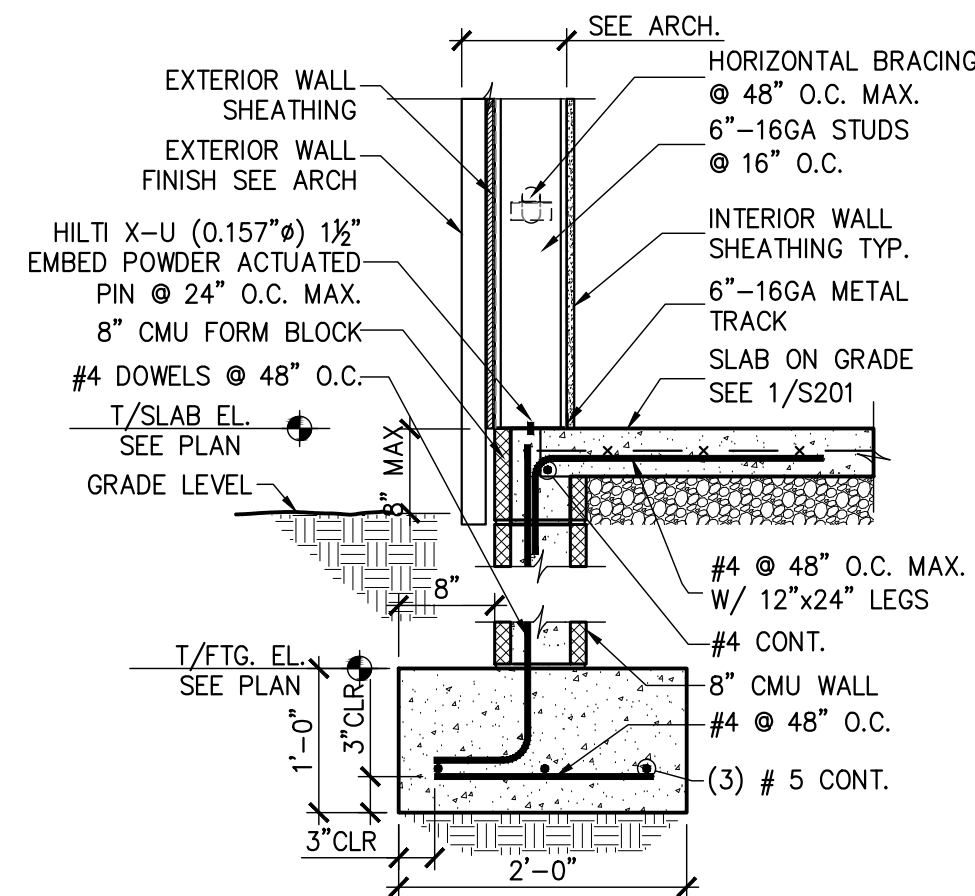
8 SECTION - TYP. EXT. WALL FTG.
S201 3/4" = 1'-0"



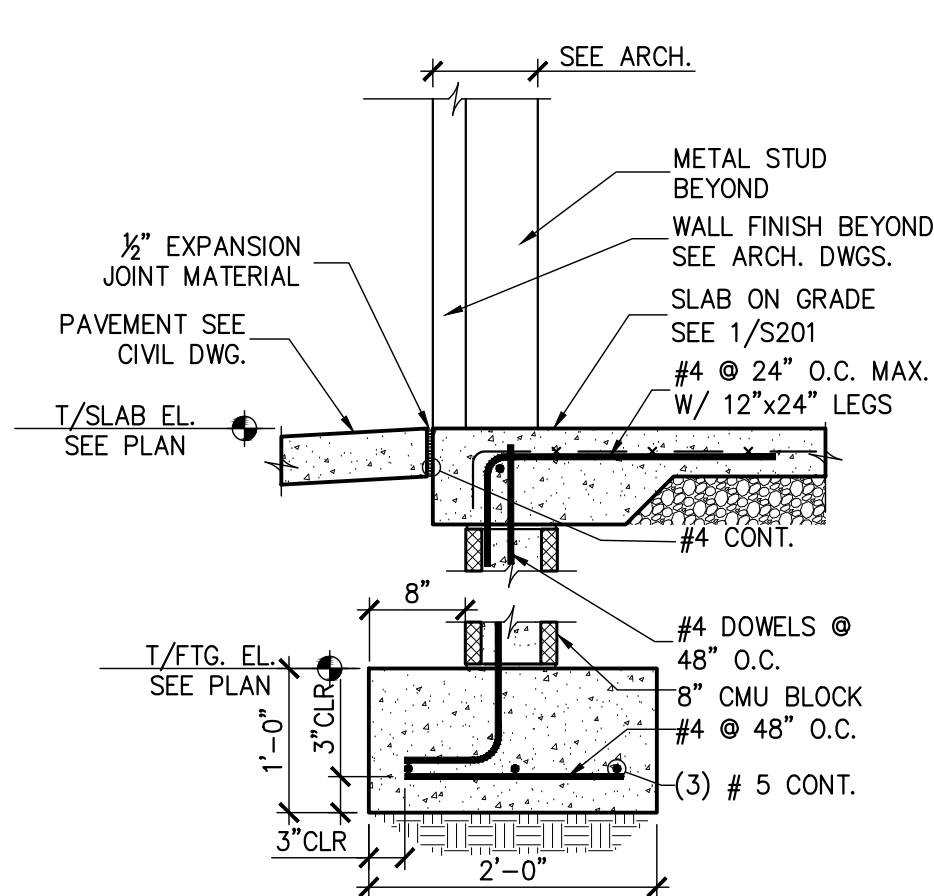
9 SECTION - TYP. WALL FTG. @ DOOR
S201 3/4" = 1'-0"



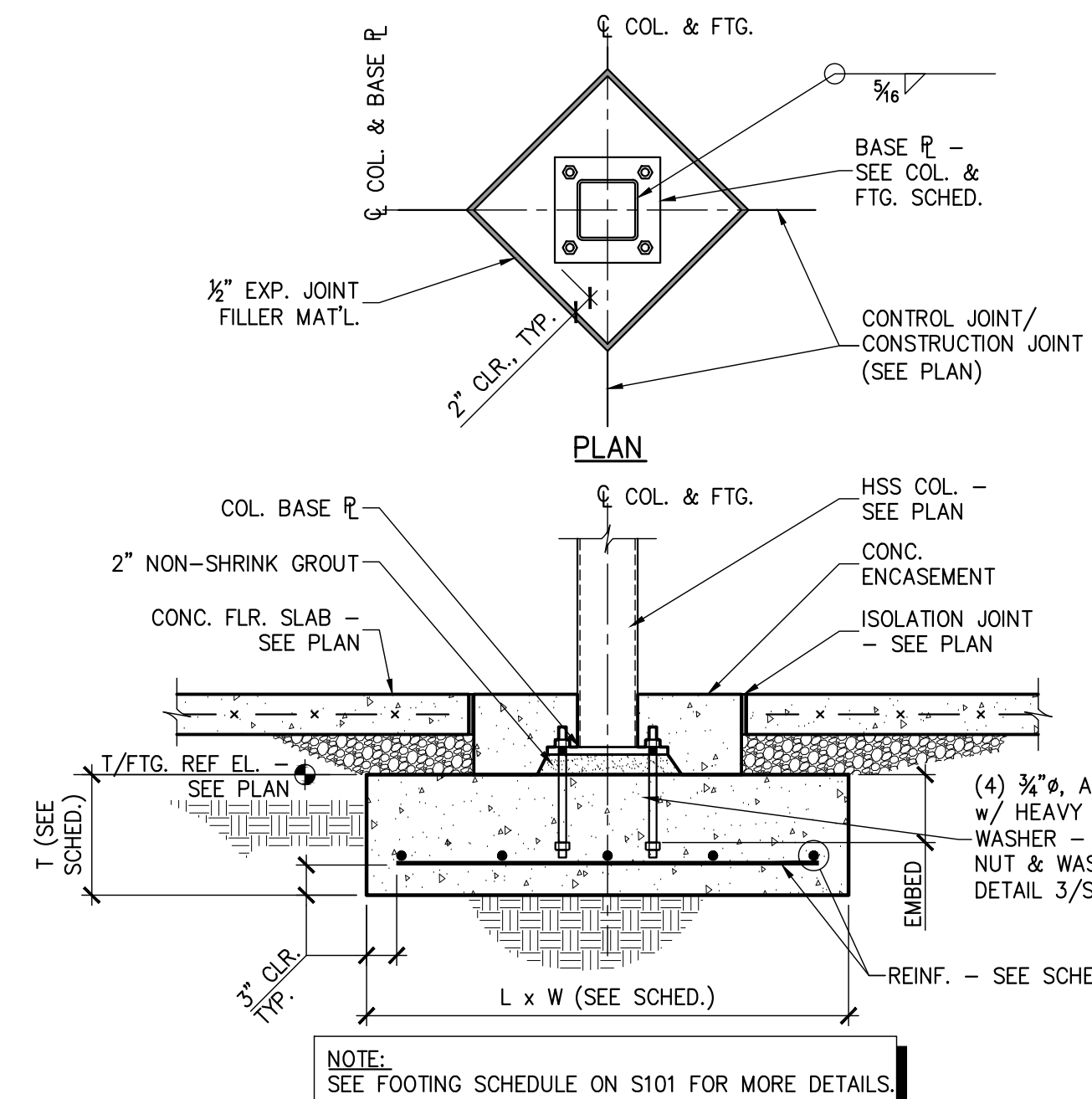
10 SECTION - TYP. WALL FTG. @ DOOR
S201 3/4" = 1'-0"



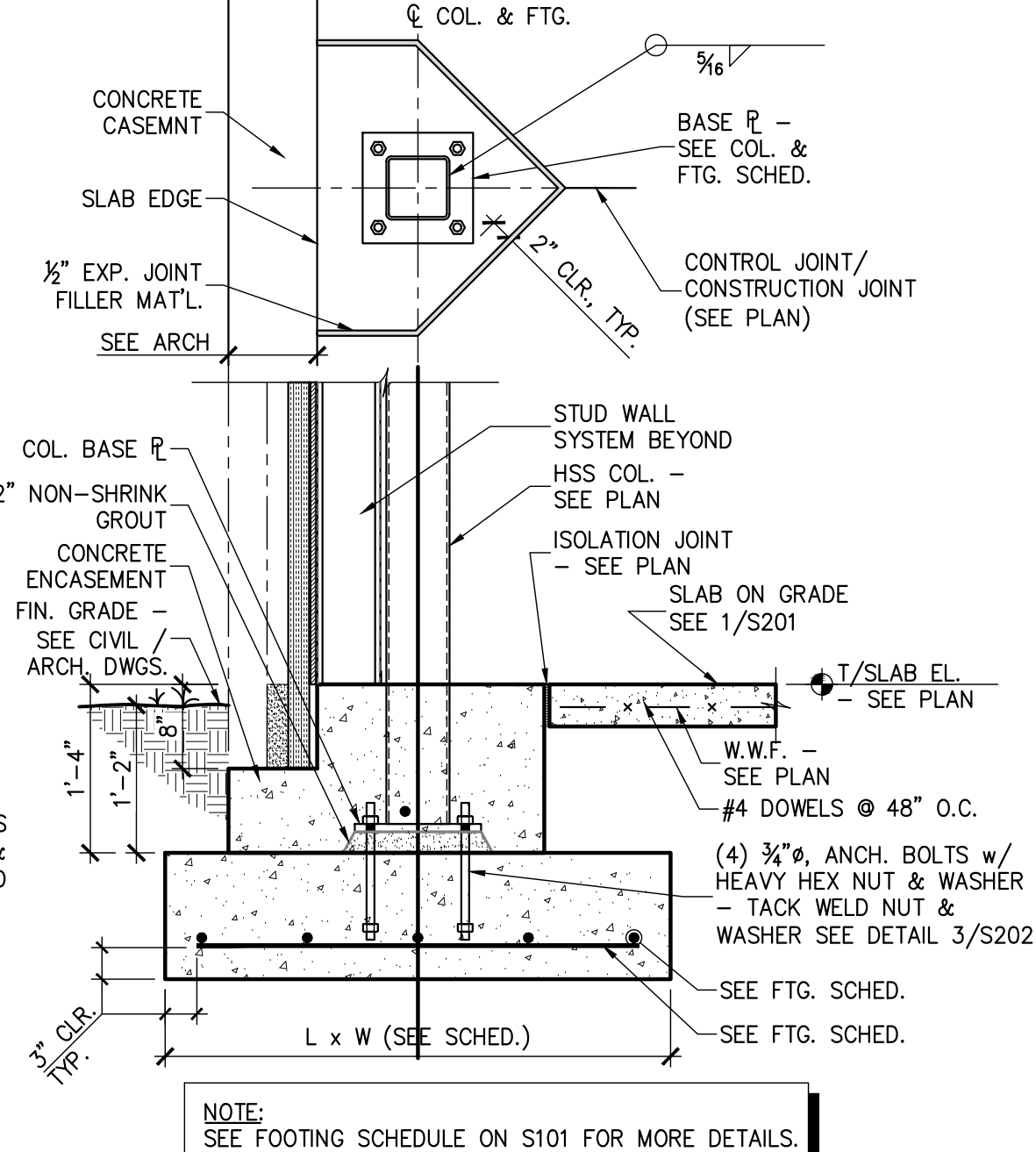
11 SECTION - TYP. EXT. WALL FTG.
S201 3/4" = 1'-0"



12 SECTION - TYP. WALL FTG. @ DOOR
S201 3/4" = 1'-0"



13 SECTION - TYP. INTERIOR HSS COL. FTG.
S201 3/4" = 1'-0"



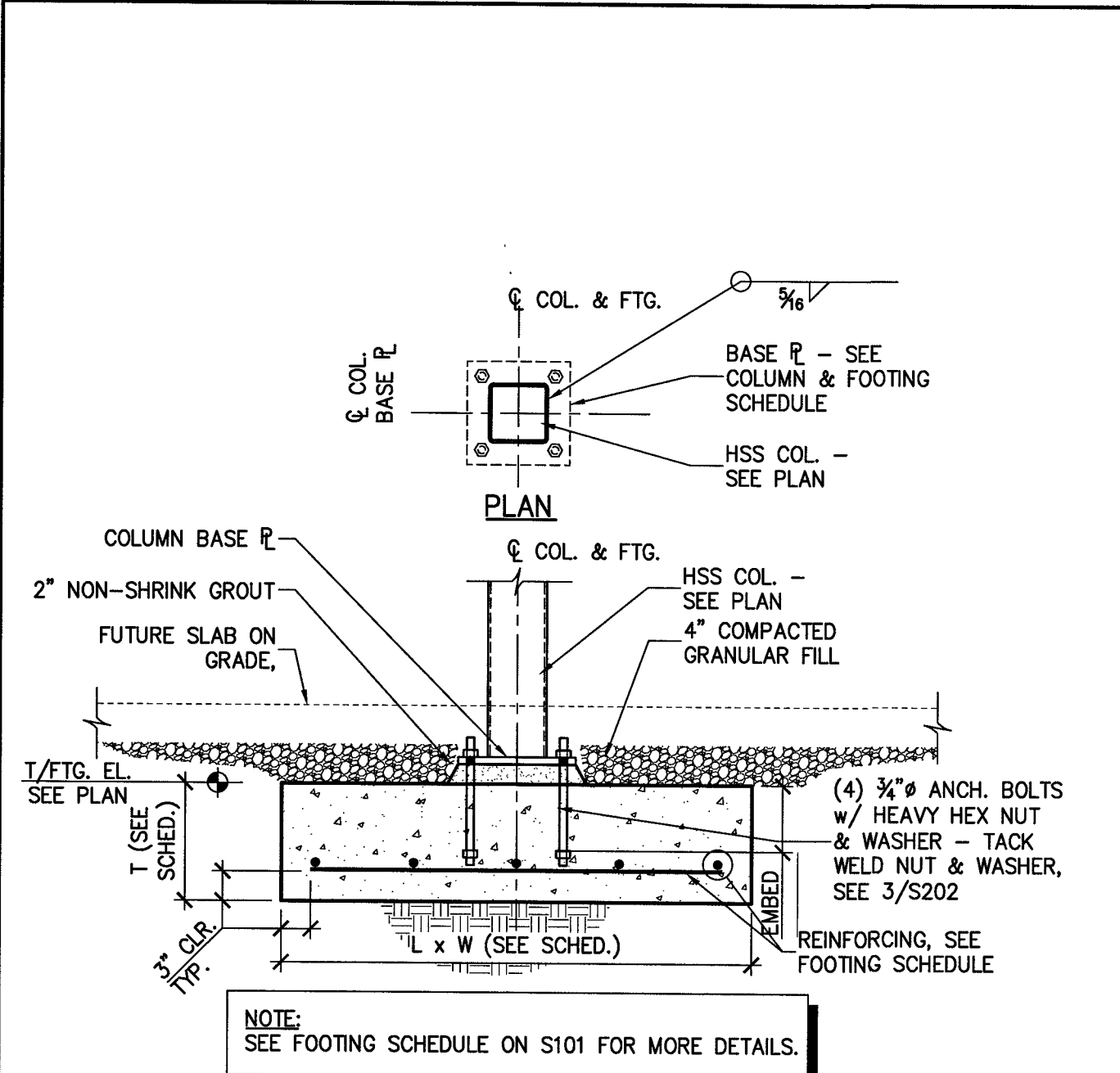
14 SECTION - TYP. EXTERIOR HSS COL. FTG.
S201 3/4" = 1'-0"

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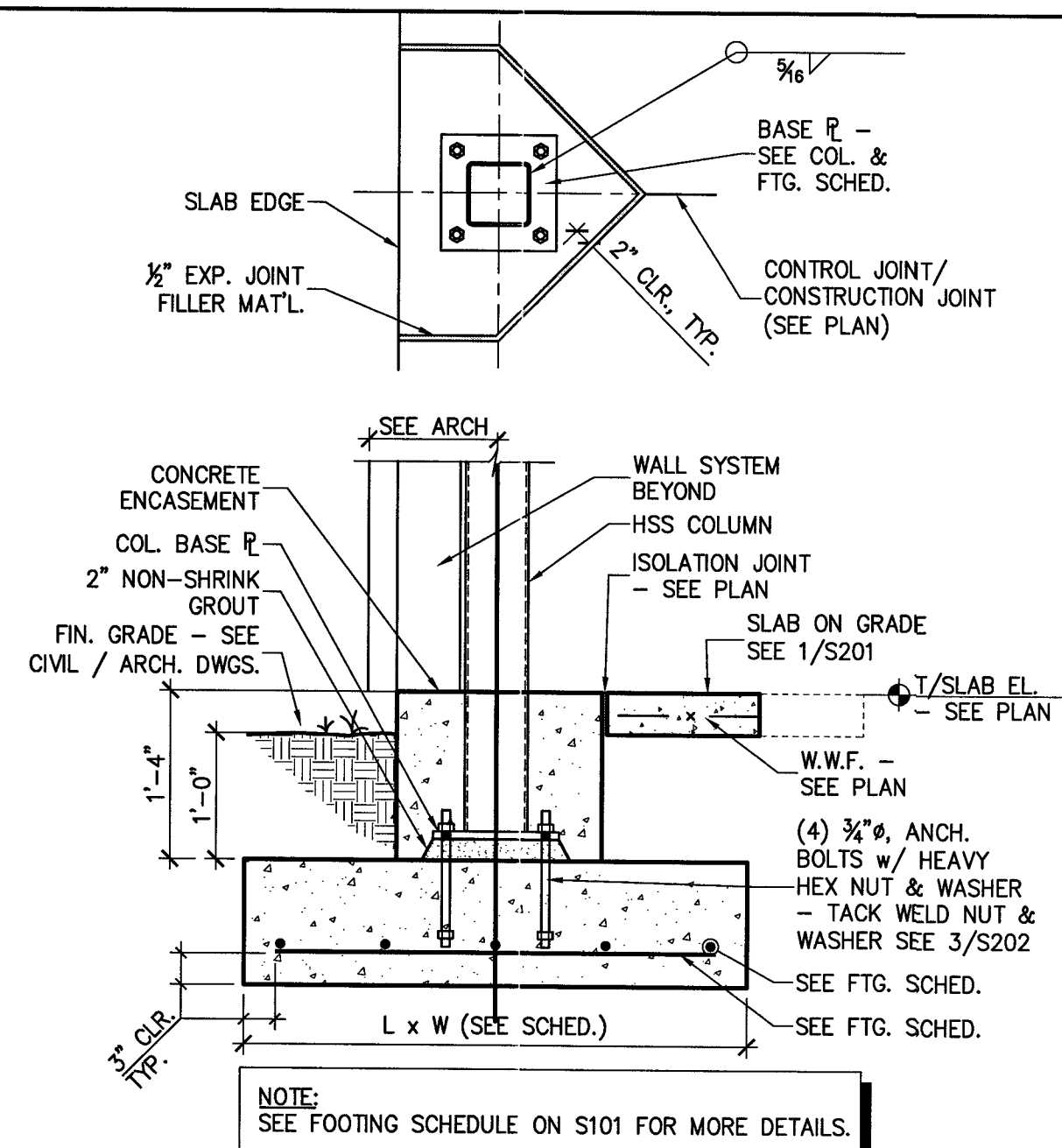
PROJECT #: 26-121
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FOOTING DETAILS
AND SECTIONS

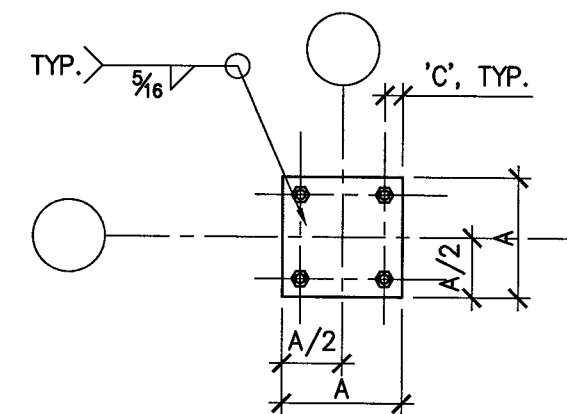
S201



1 SECTION - TYP. HSS COL. FTG.
S202 3/4" = 1'-0" INTERIOR COLUMN

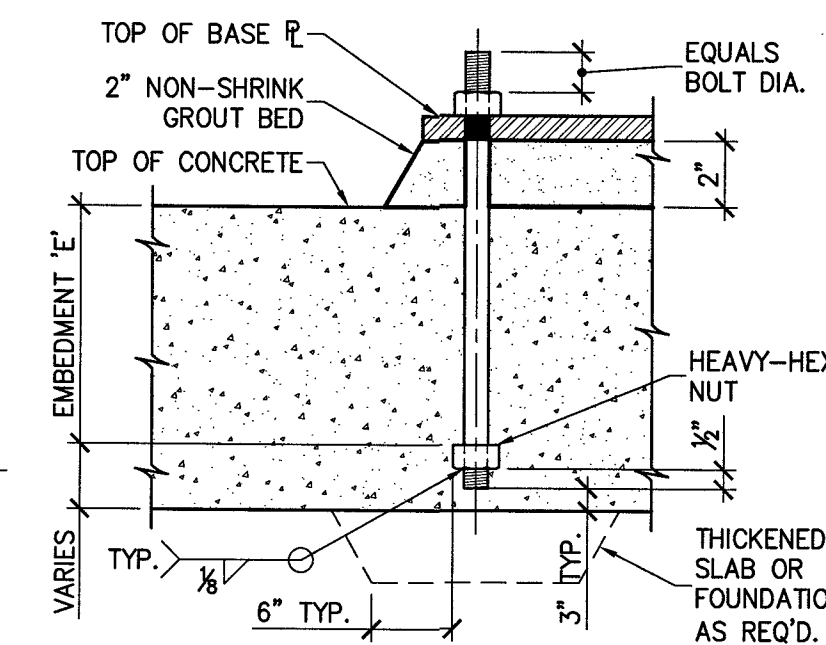


2 SECTION - TYP. EXTERIOR HSS COL. FTG.
S202 3/4" = 1'-0"



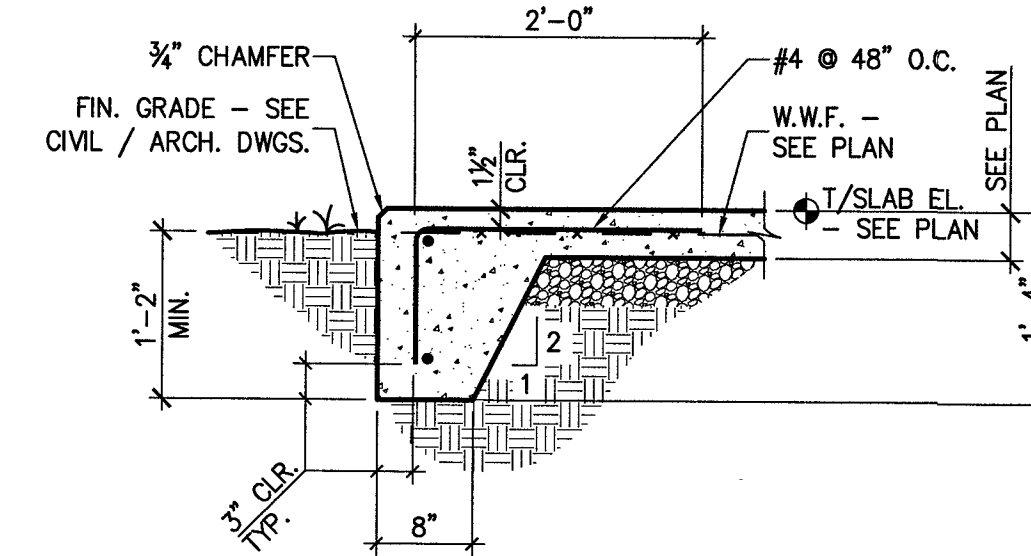
BOLT DIA.	DISTANCE 'C'
1/2" AND BELOW	1 1/2"

BASE PLATE

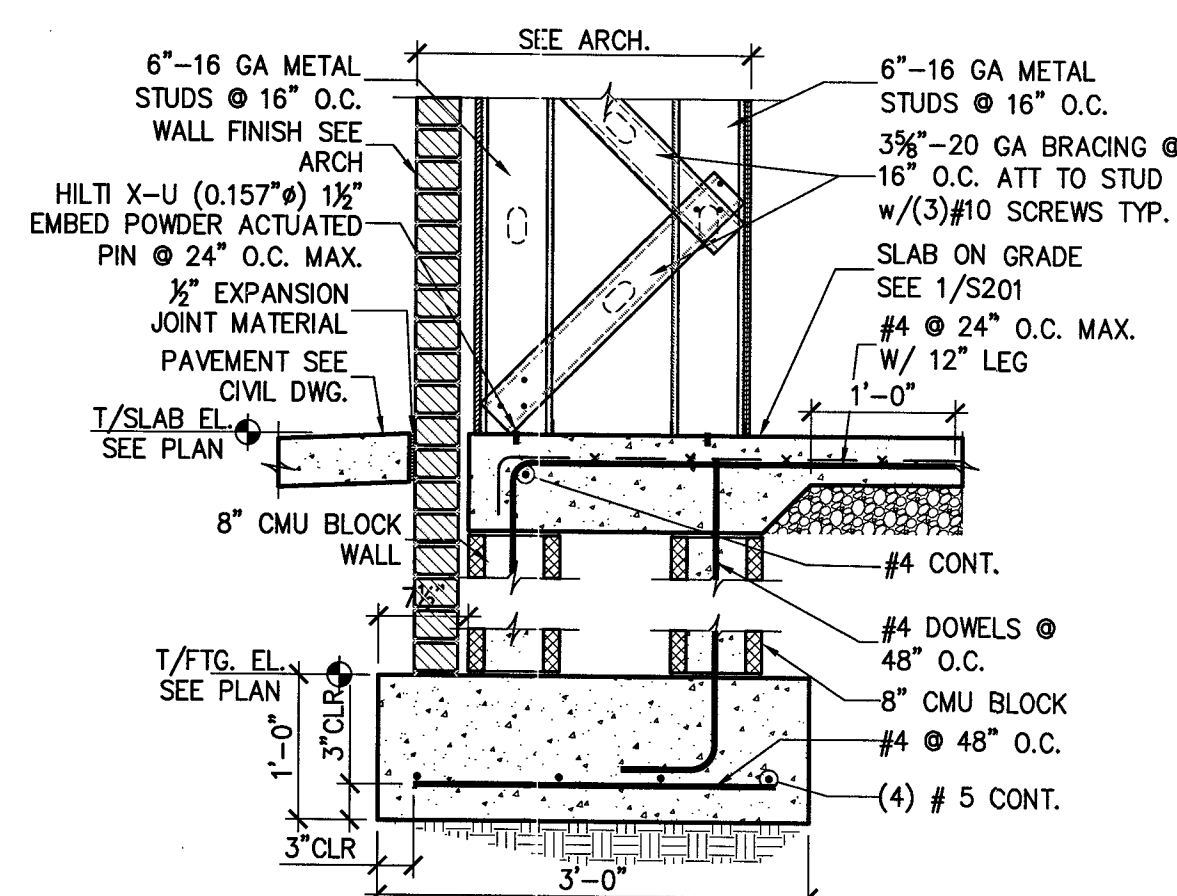


BOLT DIA. 'D'	EMBEDMENT 'E'	REMARKS
3/4"	0'-9"	-

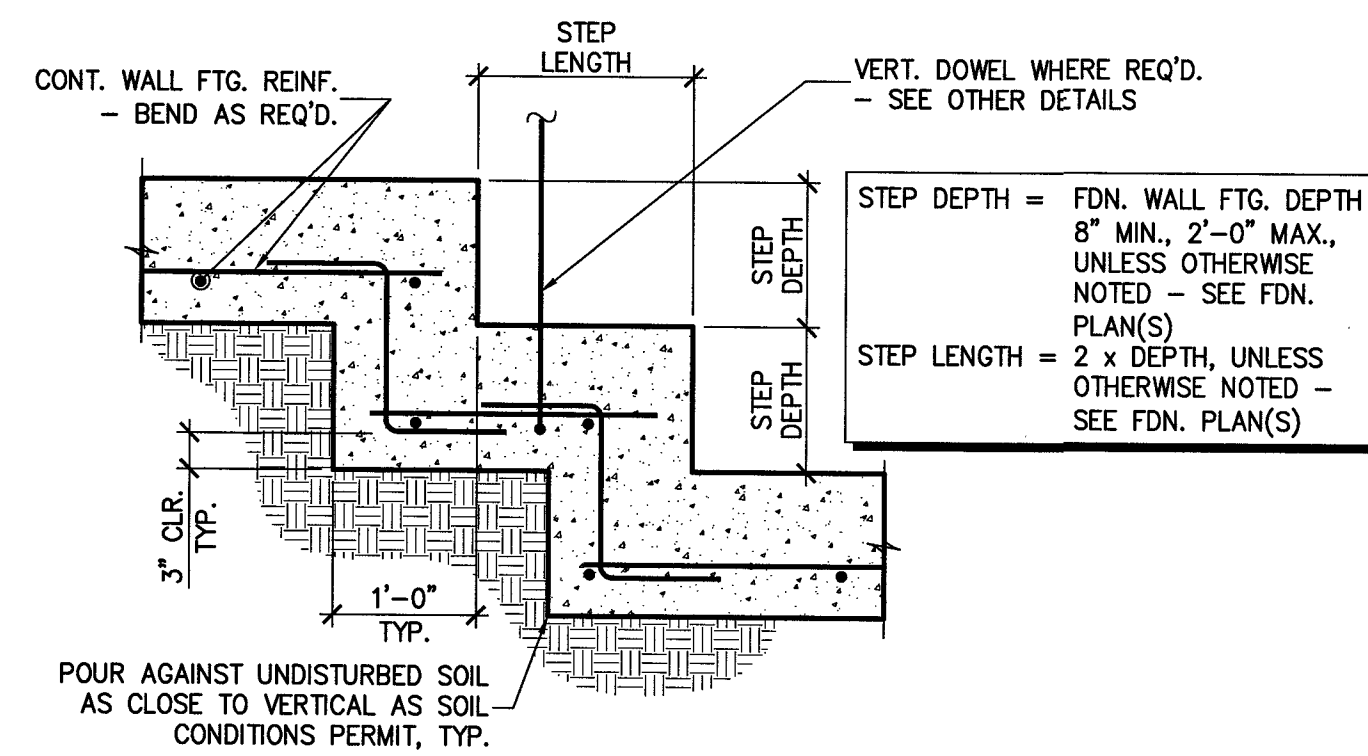
3 TYPICAL ANCHOR BOLT DETAIL
S202 3/4" = 1'-0"



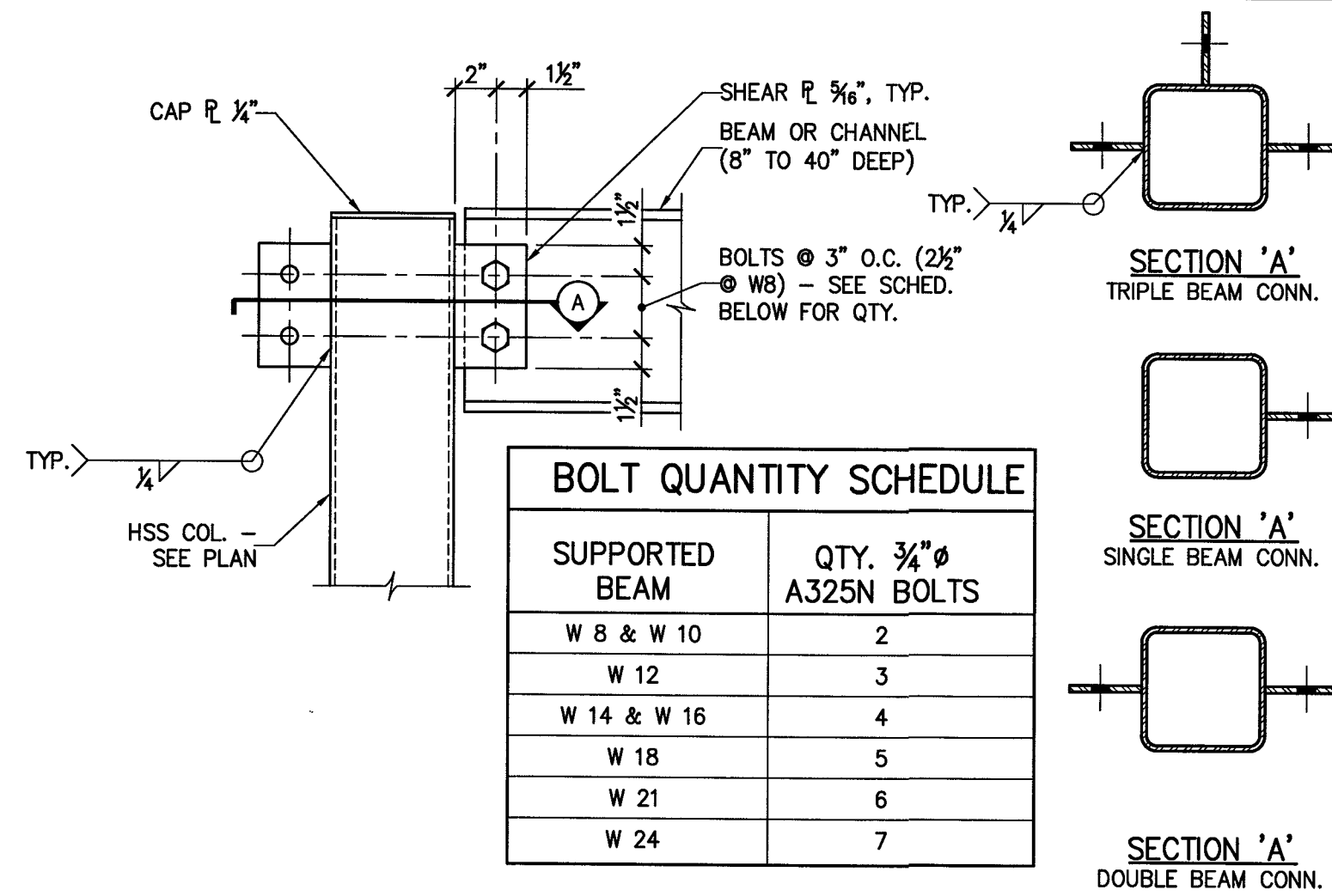
5 SECTION - TYP. STEPPED FTG.
S202 3/4" = 1'-0" USE AS NEEDED



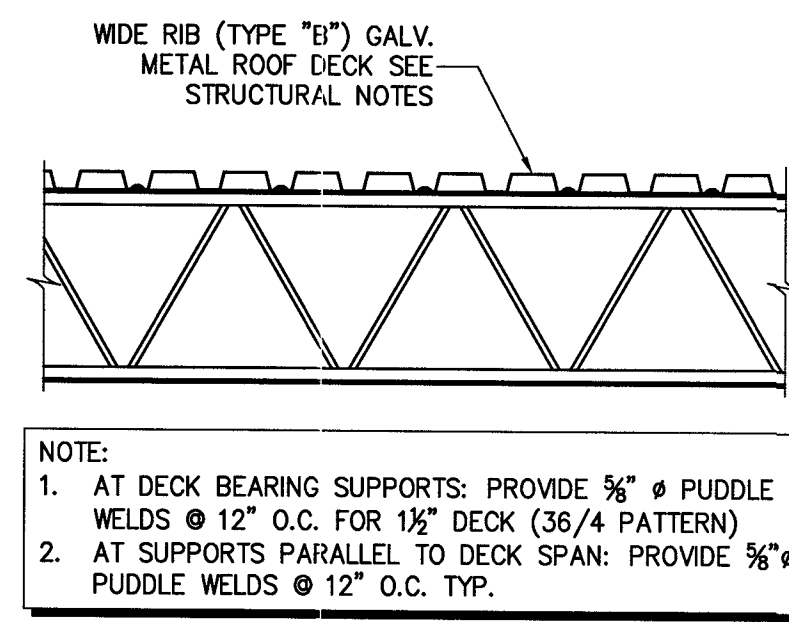
6 SECTION - TOWER WALL FTG.
S202 3/4" = 1'-0"



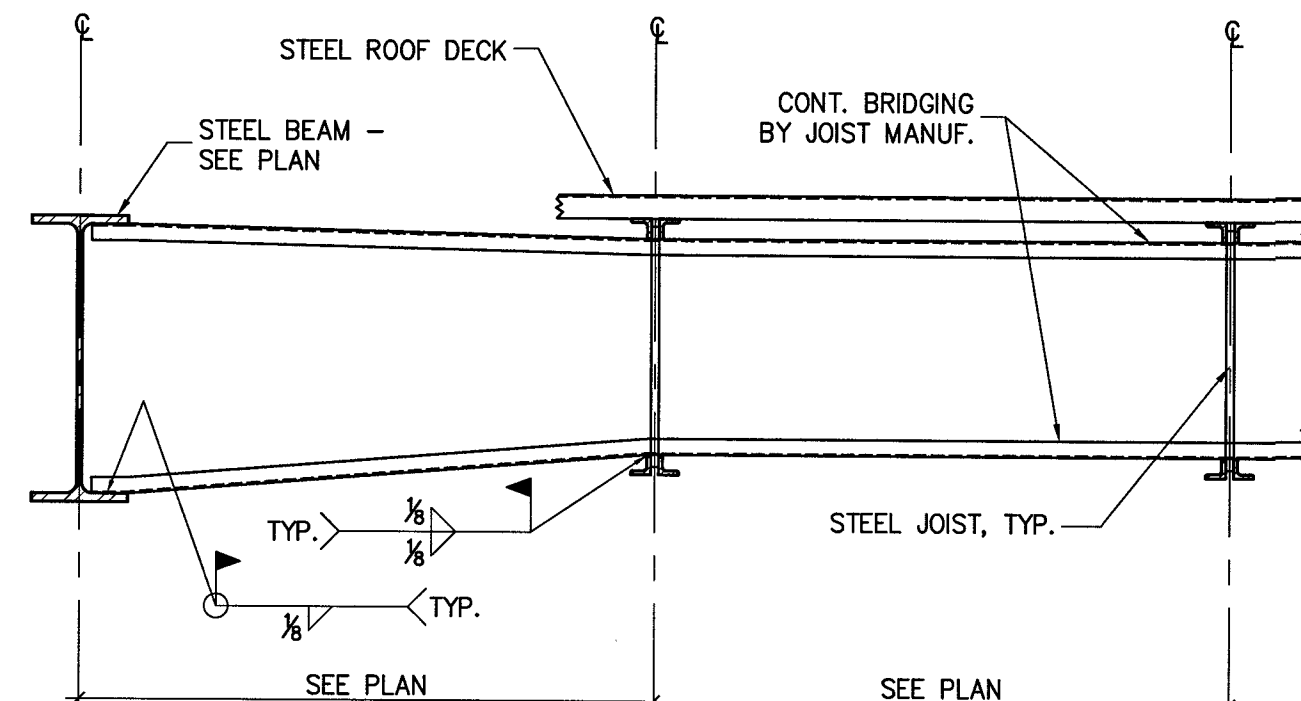
4 SECTION - TYP. SLAB
EDGE w/ TURN-DOWN
S202 3/4" = 1'-0" USE AS NEEDED



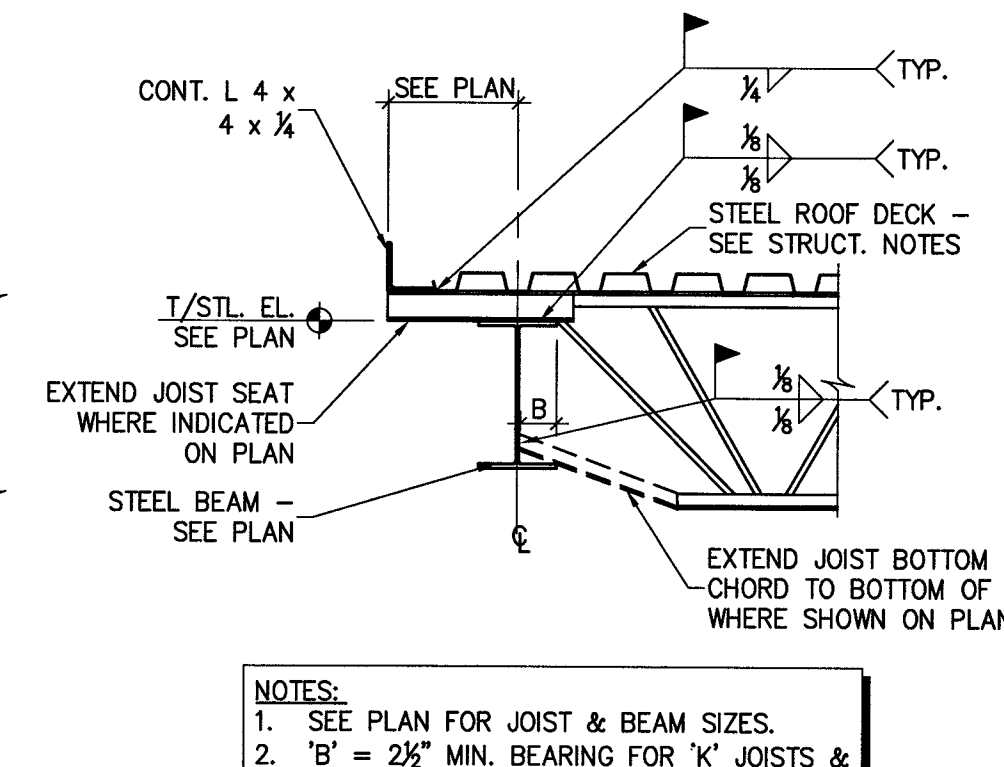
1 TYP. WF BEAM TO HSS COL. SHEAR TAB CONNECTION
S301 N.T.S.



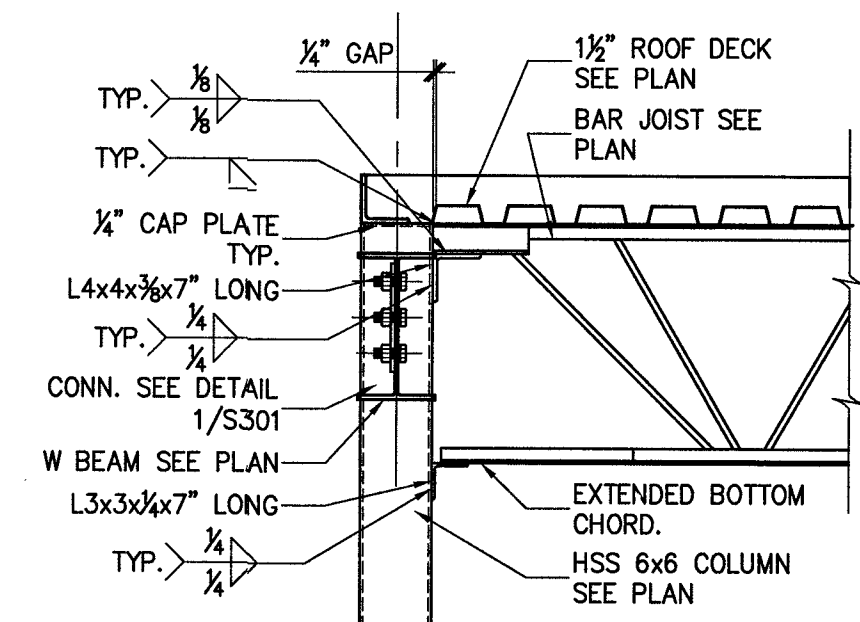
2 TYP. ROOF DECK DETAIL
S301 3/4" = 1'-0"



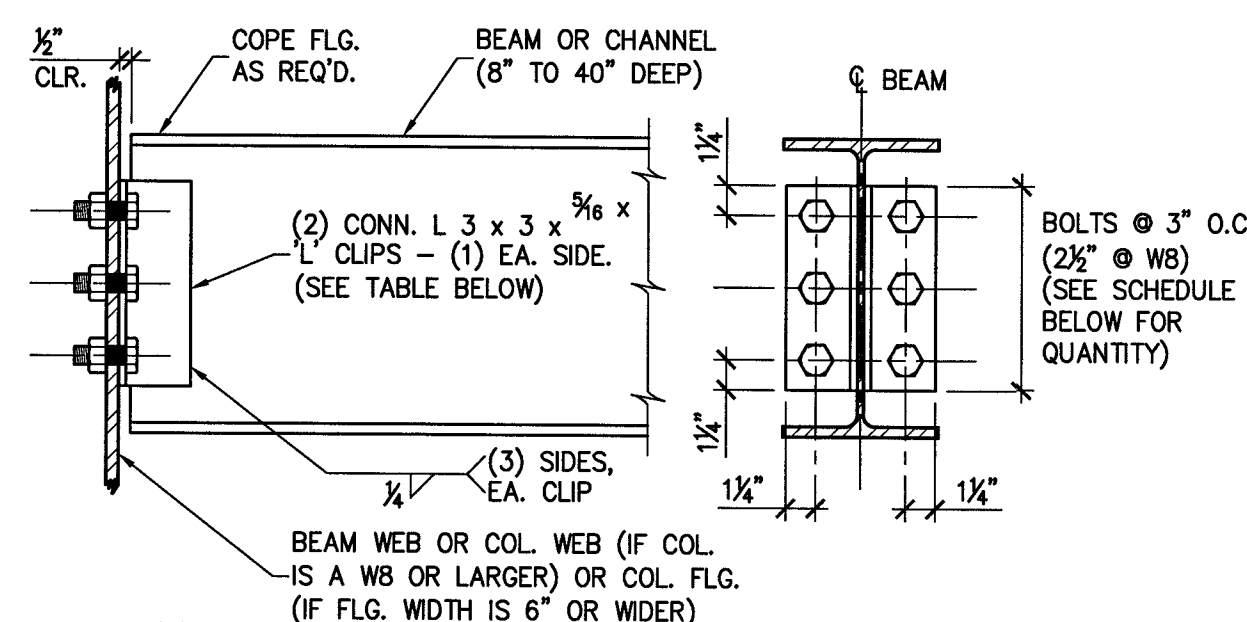
3 TYP. HORIZONTAL BRIDGING
S301 3/4" = 1'-0"



4 SECTION - TYP. EXT. JOIST BRG.
S301 3/4" = 1'-0"



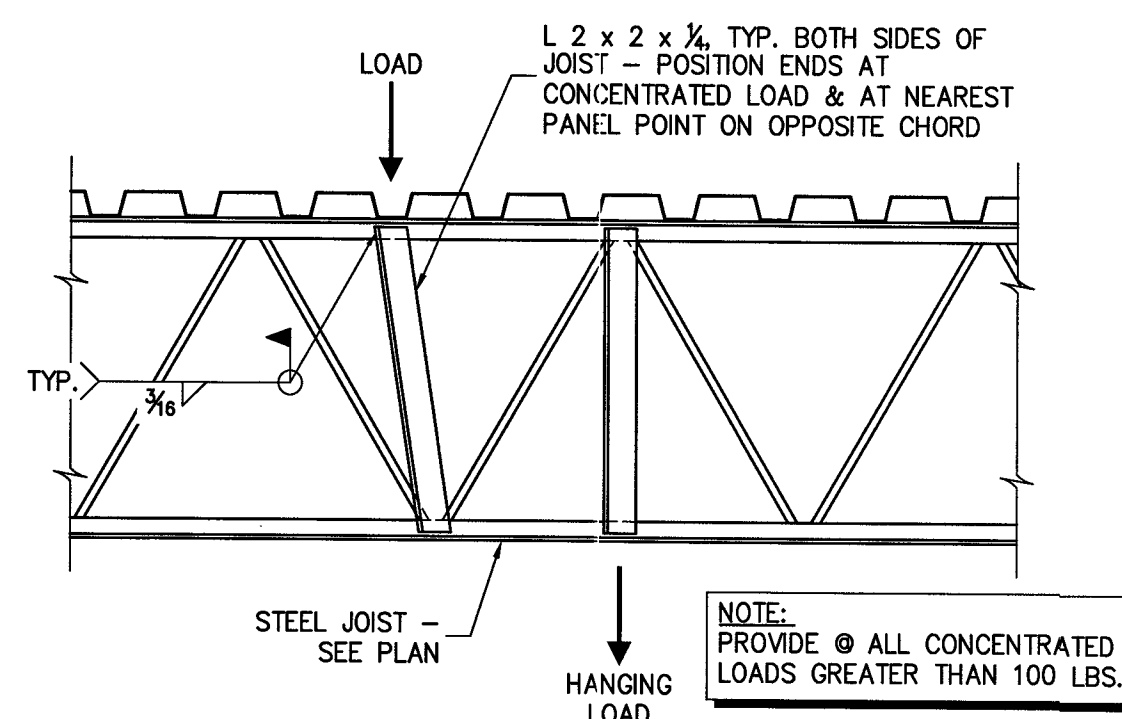
5 JOIST BEARING @ HSS COLUMN
S301 3/4" = 1'-0"



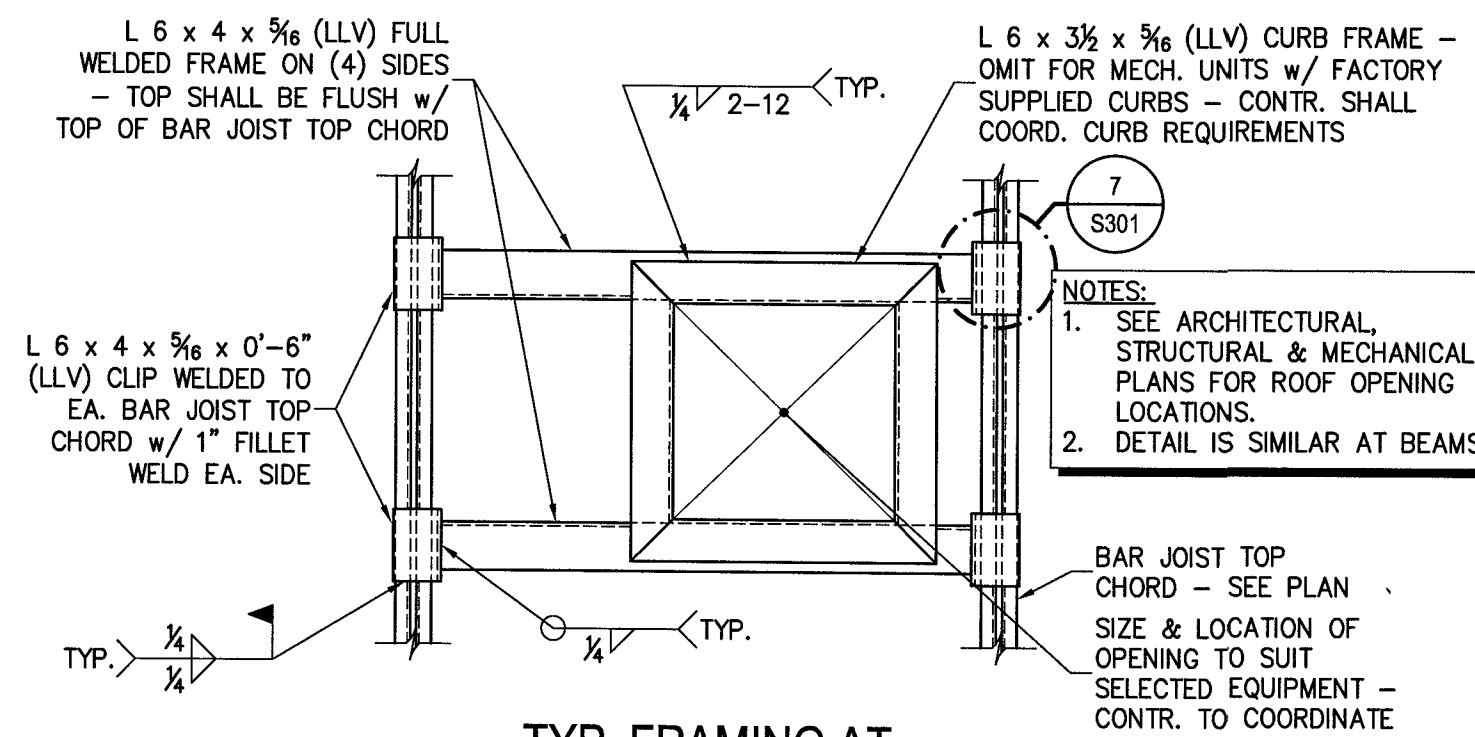
BEAM DEPTH NOMINAL	No. OF BOLTS EACH SIDE	FRAMING ANGLE LENGTH 'L'
8"	2	5"
10"	2	5 1/2"
12"	3	8 1/2"
14"	3	8 1/2"
16"	4	11 1/2"

* BOLT ROWS ARE SPACED 3" O.C. UNLESS NOTED OTHERWISE.

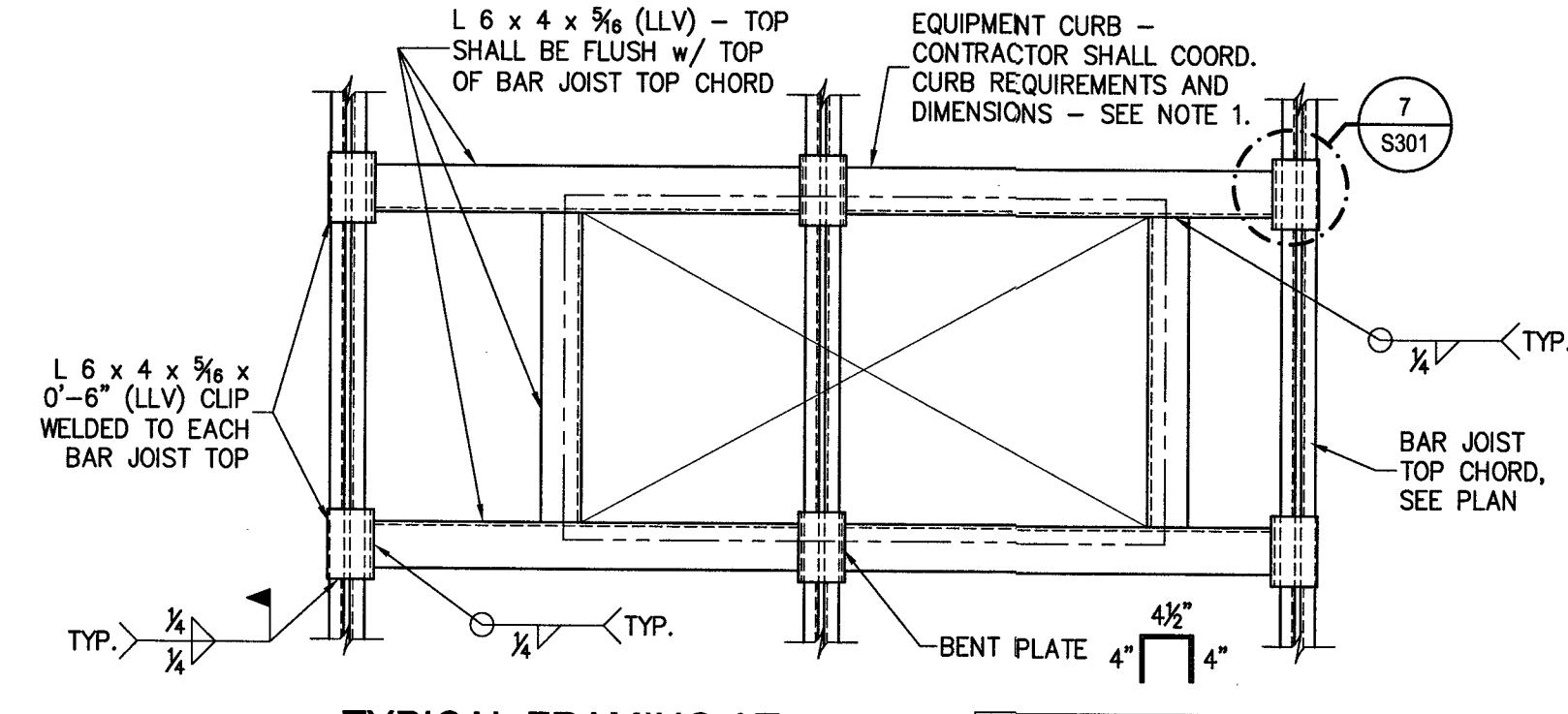
6 FRAMED BEAM CONN. DETAIL
S301 1 1/2" = 1'-0"



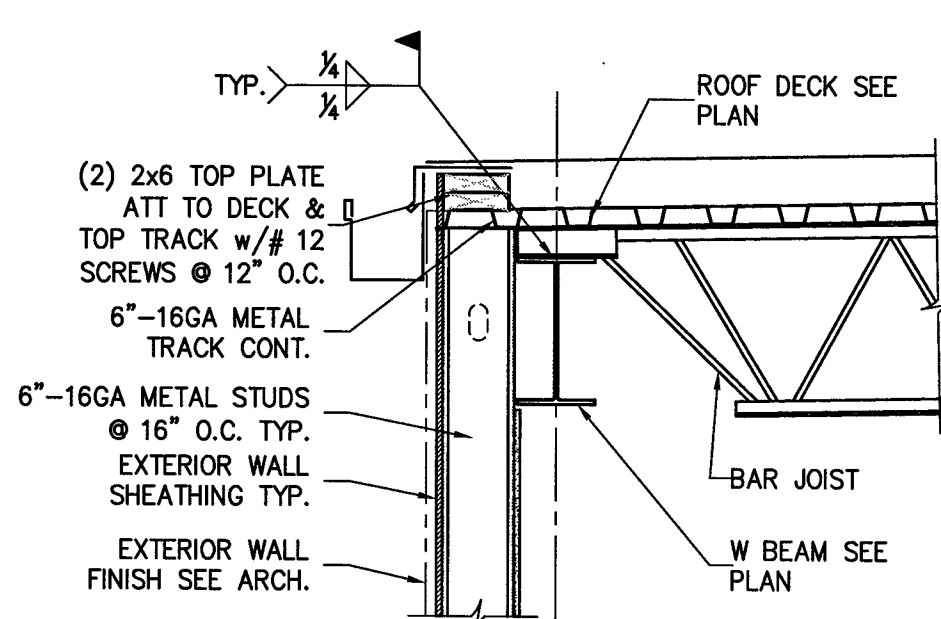
7 JOIST REINF. FOR CONCENTRATED LOAD
S301 3/4" = 1'-0"



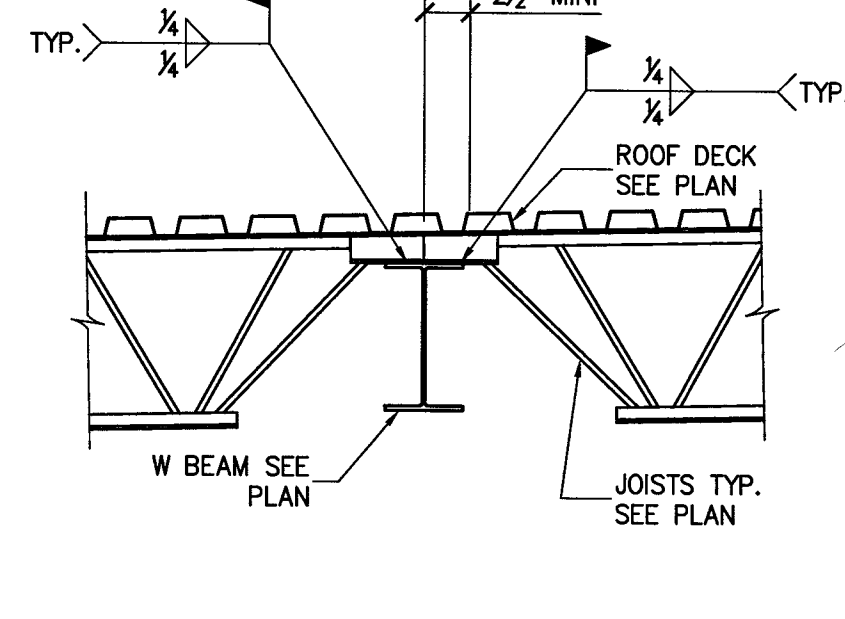
8 TYP. FRAMING AT OPENING IN ROOF DECK
S301 3/4" = 1'-0"



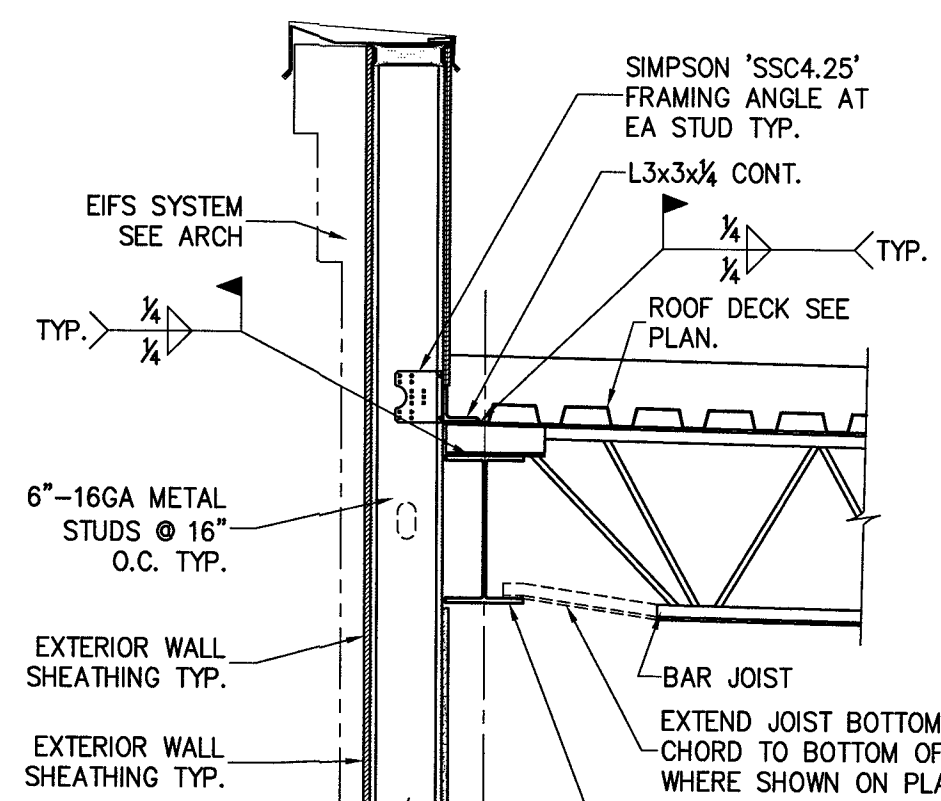
9 TYPICAL FRAMING AT ROOF TOP EQUIPMENT
S301 3/4" = 1'-0"



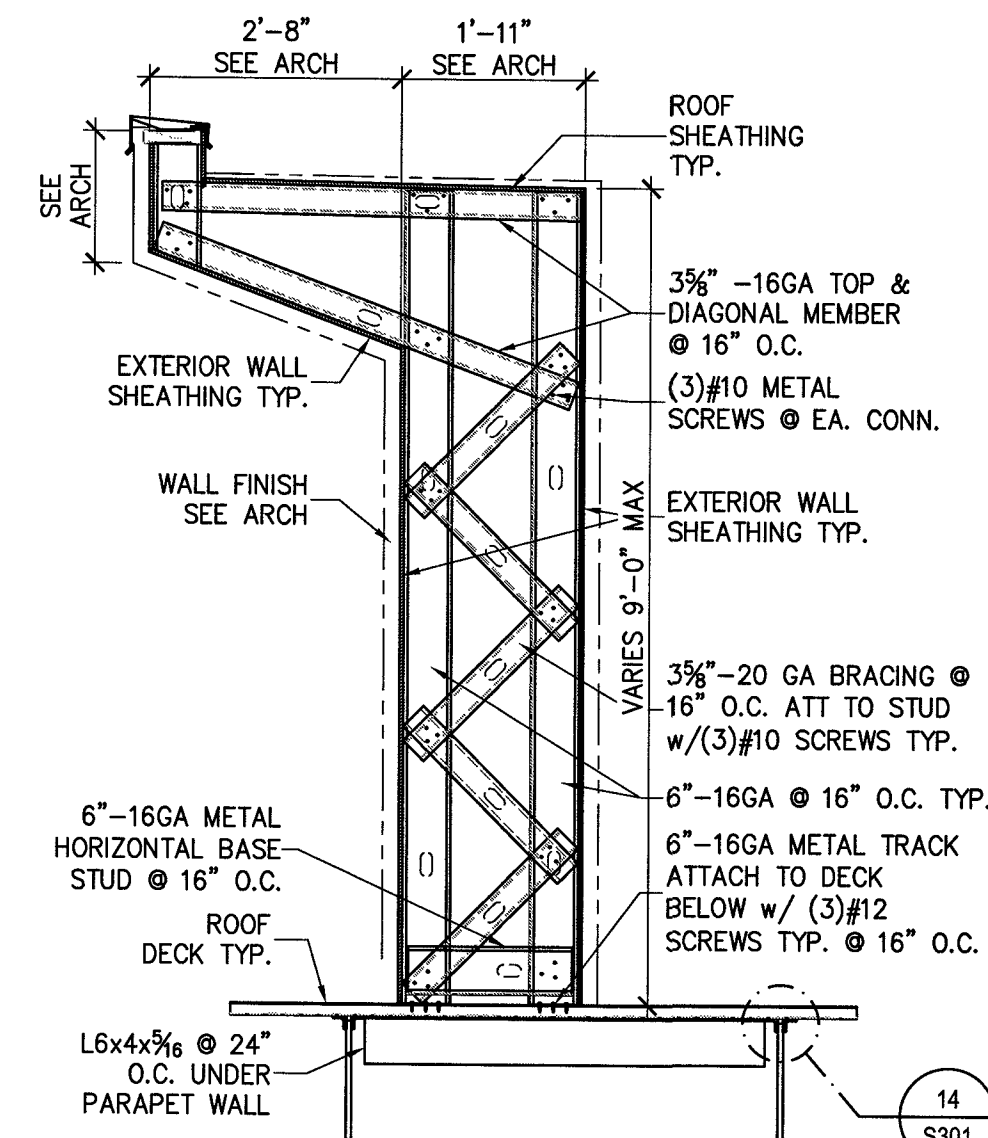
10 SECTION - TYP. EXT. JOIST BRG.
S301 3/4" = 1'-0"



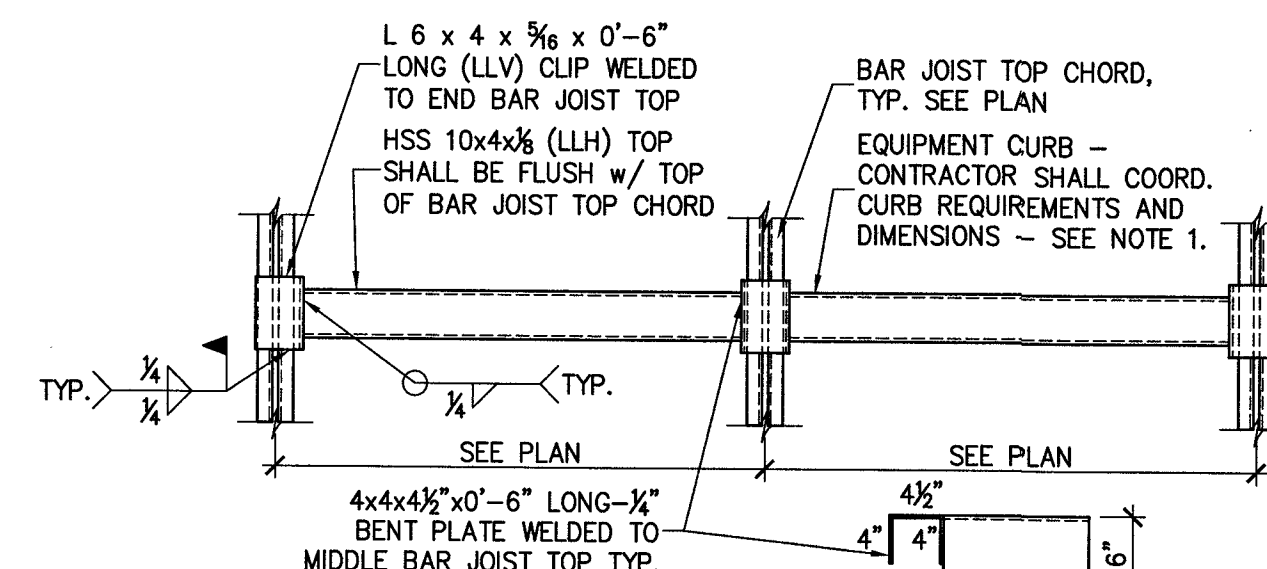
11 INTERIOR JOIST BEARING (TYP.)
S301 3/4" = 1'-0"



12 SECTION - TYP. EXT. JOIST BRG.
S301 3/4" = 1'-0"



13 SECTION - PARAPET ABOVE ROOF
S301 1/2" = 1'-0"



14 TYPICAL FRAMING AT KICKERS LOCATION
S301 3/4" = 1'-0"



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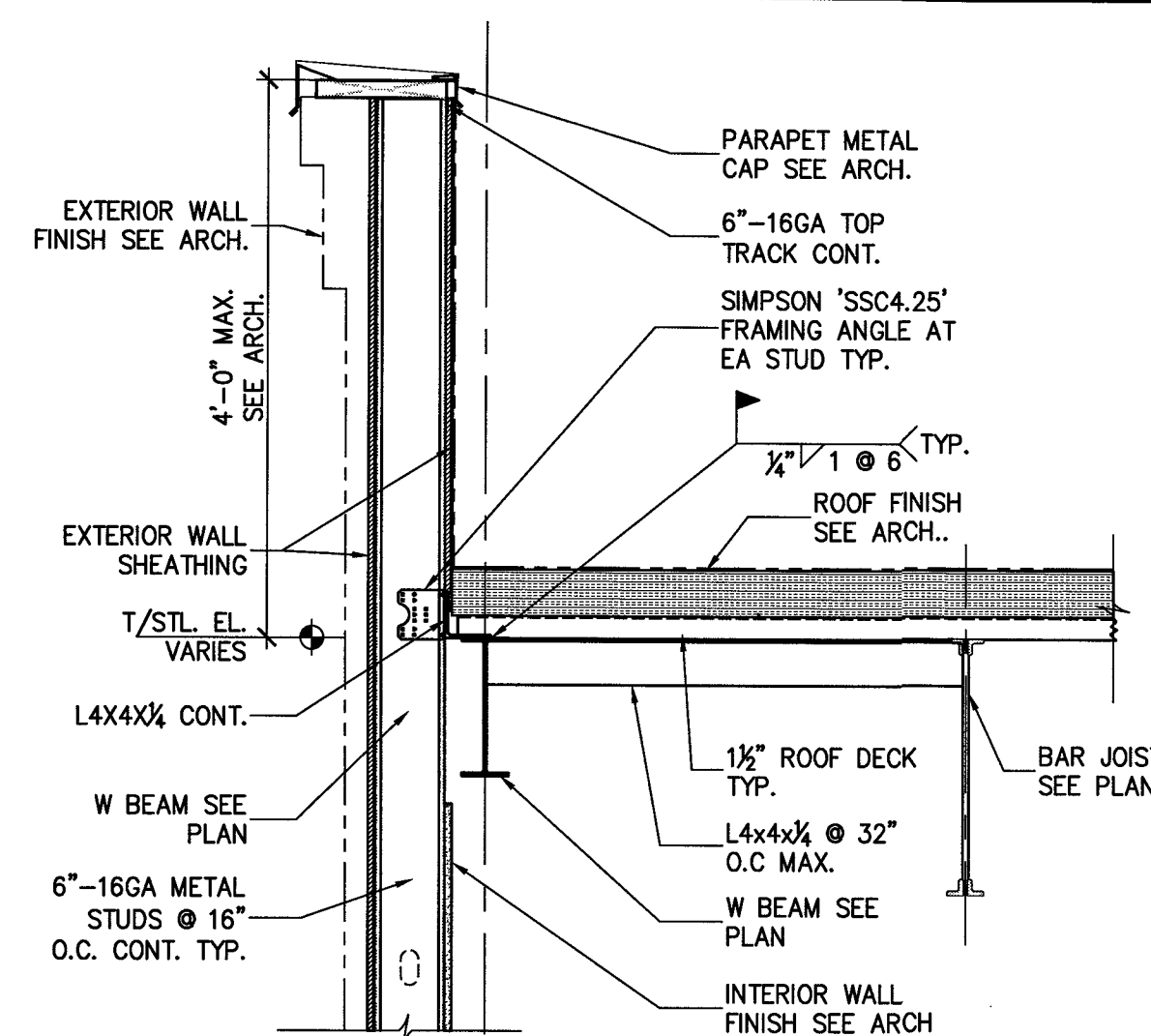
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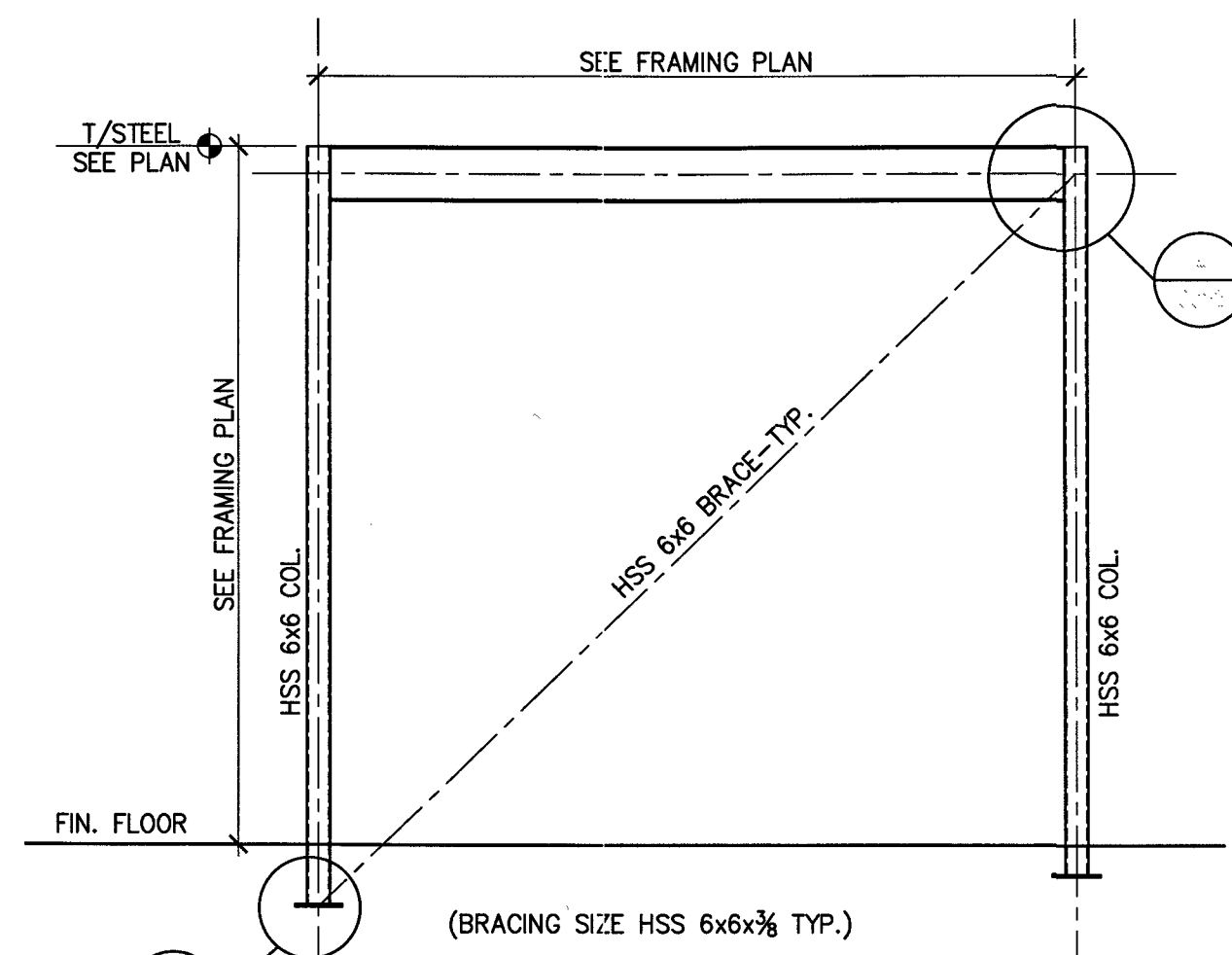
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FRAMING DETAILS AND SECTIONS

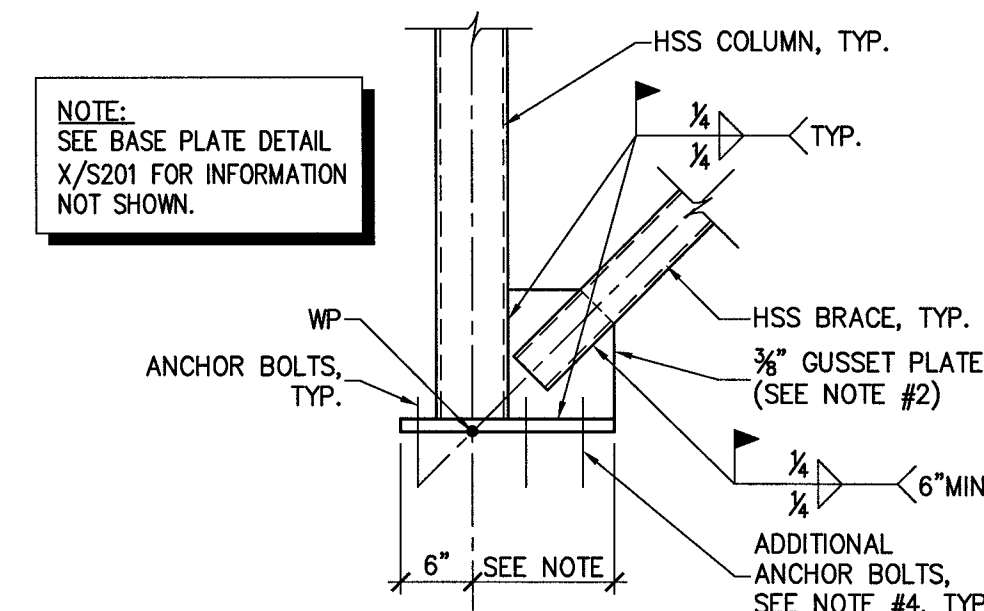
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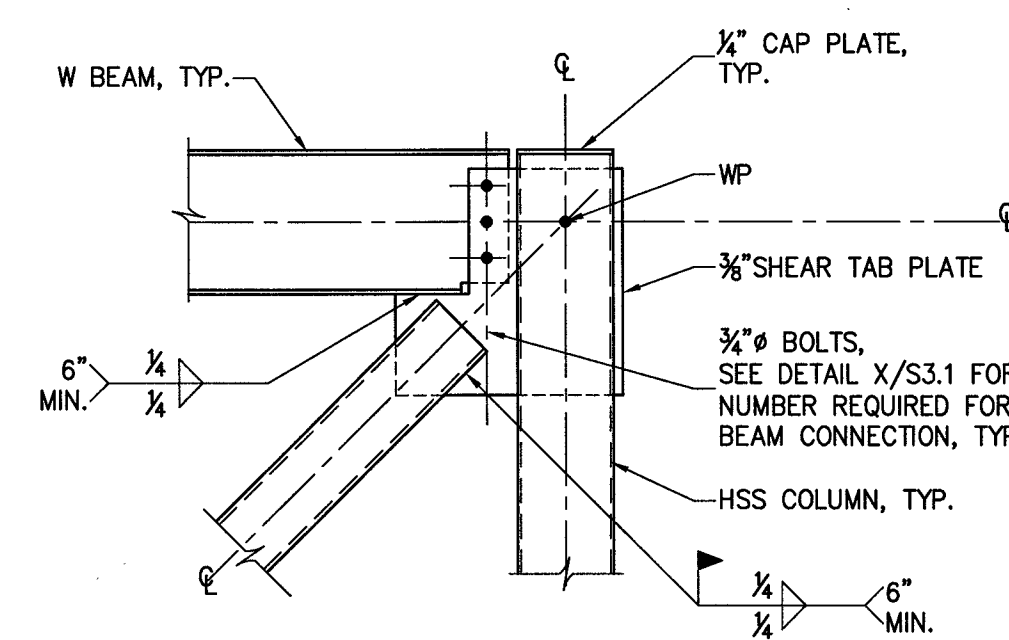
1 SECTION - SIDE WALL PARAPET
S302 3/4" = 1'-0"



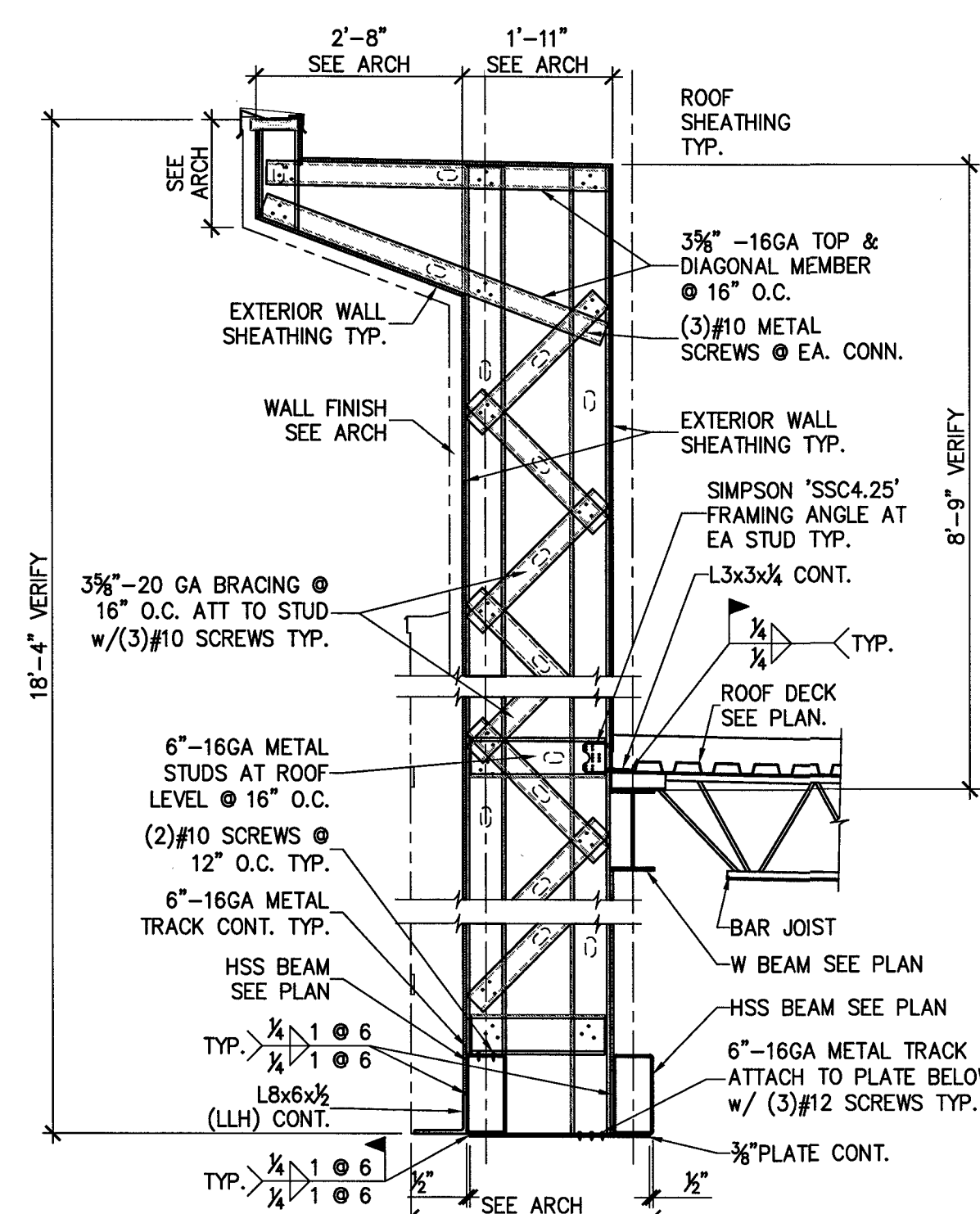
2 VERTICAL "X" BRACING ELEVATION
S302 1/4" = 1'-0"



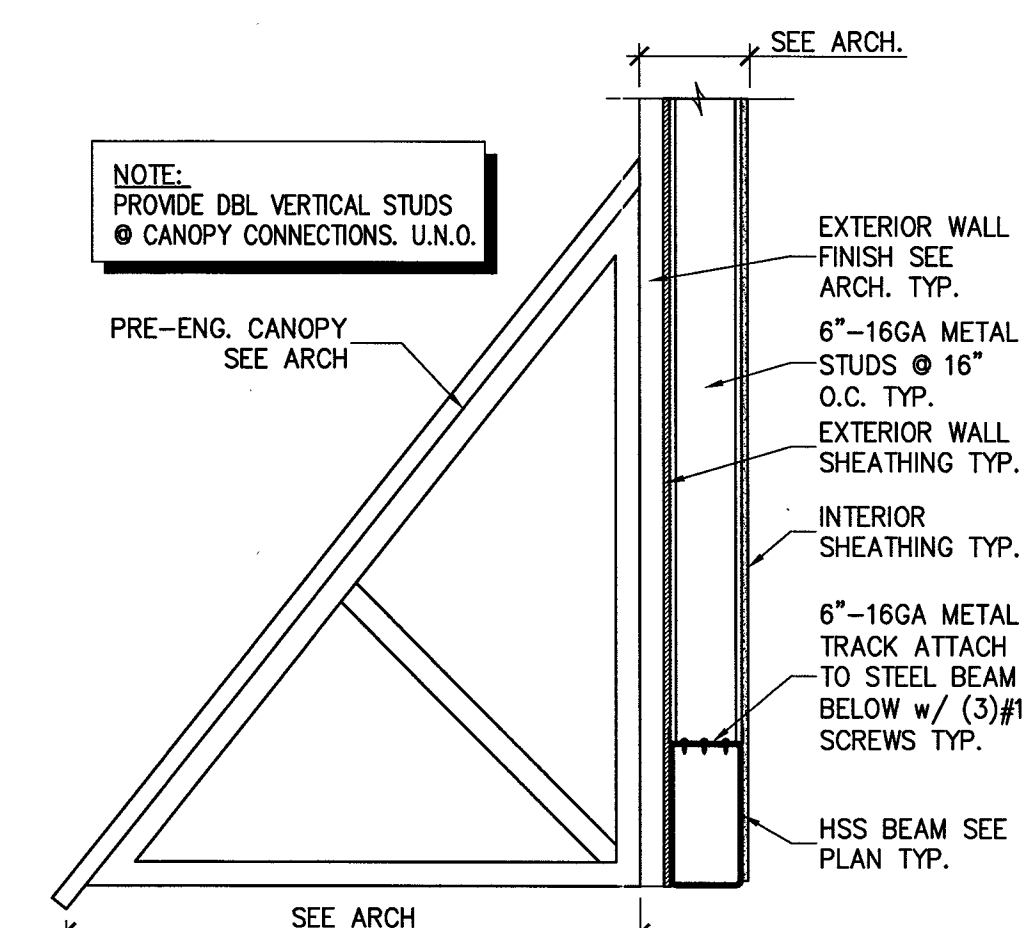
3 BRACING DETAIL AT BASE
S302 3/4" = 1'-0"



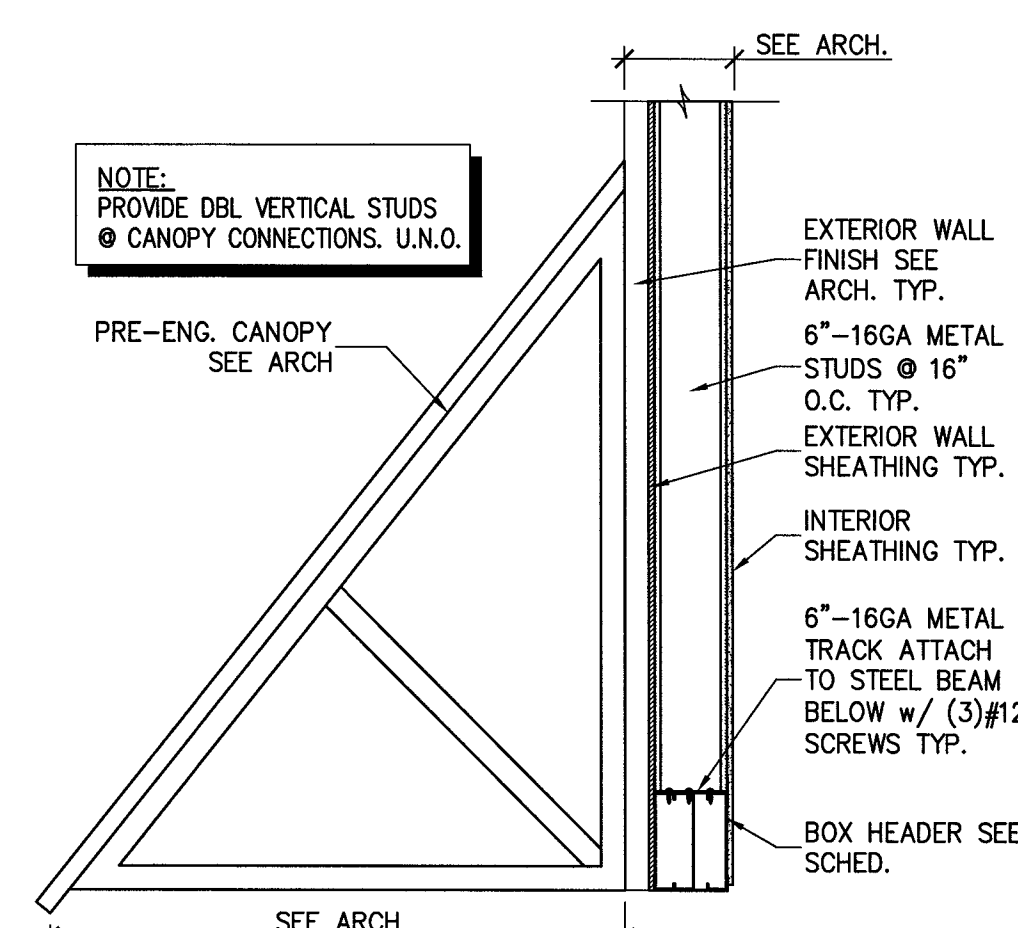
4 BRACING DETAIL AT BEAM
S302 3/4" = 1'-0"



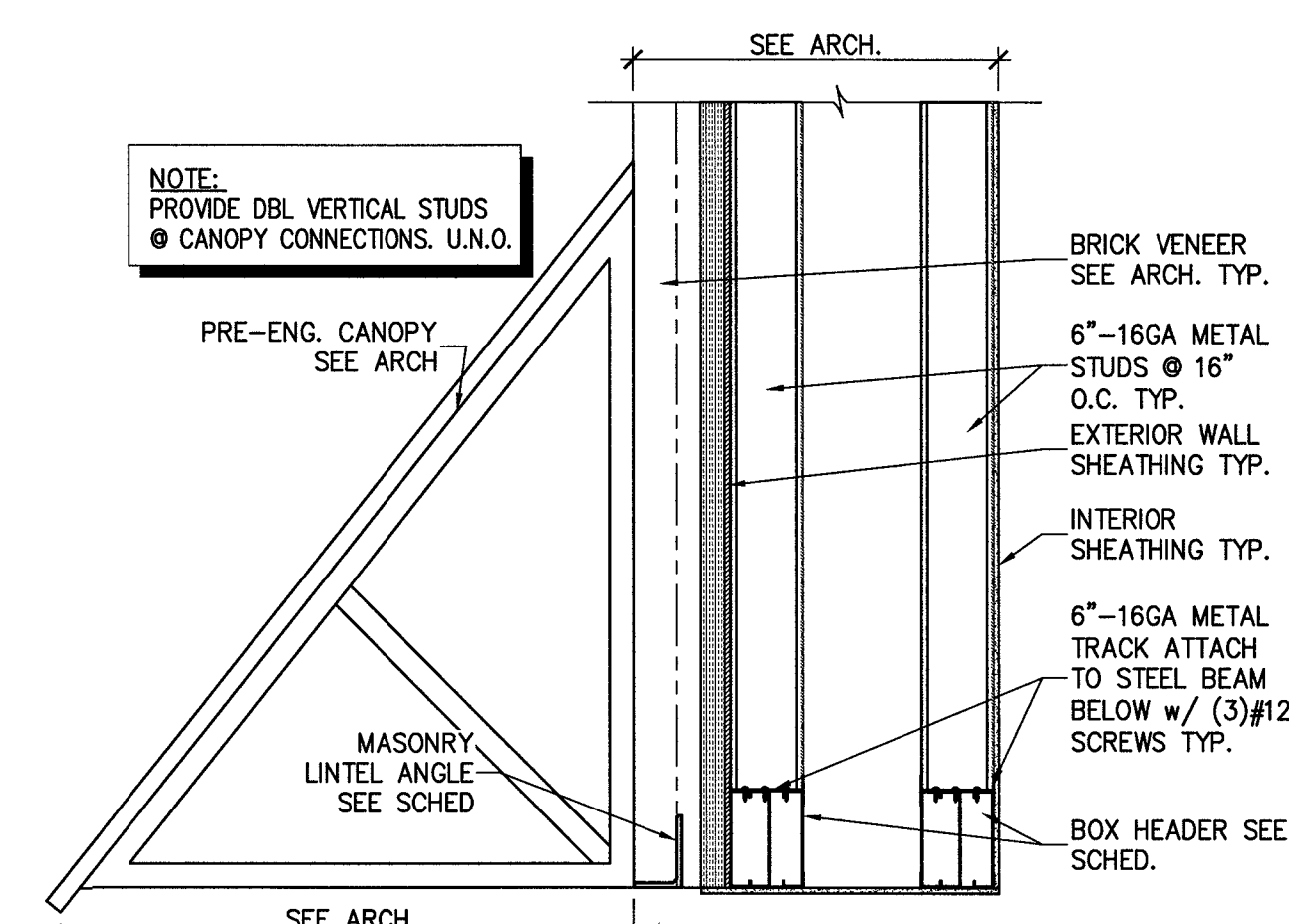
5 SECTION - TOWER AT FRONT ENTRY
S302 1/2" = 1'-0"



6 SECTION AT STOREFRONT
S302 3/4" = 1'-0"



7 SECTION AT STOREFRONT
S302 3/4" = 1'-0"



8 SECTION AT STOREFRONT
S302 3/4" = 1'-0"

NOTE:
PROVIDE DBL VERTICAL STUDS
@ CANOPY CONNECTIONS. U.N.O.

NOTE:
PROVIDE DBL VERTICAL STUDS
@ CANOPY CONNECTIONS. U.N.O.

NOTE:
PROVIDE DBL VERTICAL STUDS
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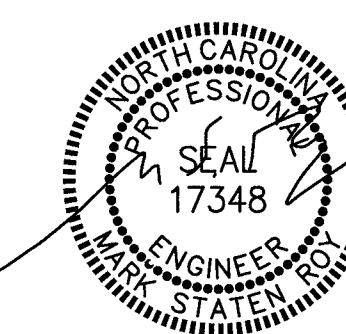
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FRAMING DETAILS
AND SECTIONS

S302

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RPA Project No.: 2026067



GENERAL STRUCTURAL NOTES:

1. **GENERAL NOTES**
 - 1.1. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
 - 1.2. THE CONTRACTOR SHALL REPORT TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
 - 1.3. COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.
 - 1.4. VERIFY ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETCETERA, WITH EQUIPMENT SELECTED.
 - 1.5. VERIFY BUILDING LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY CONSTRUCTION IS STARTED ON THE PROJECT.
 - 1.6. DO NOT CUT, NOTCH, OR OTHERWISE MODIFY ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
 - 1.7. CUTTING OF STEEL MEMBERS AND INSTALLATION OF HOLES IN STEEL MEMBERS SHALL BE DONE BY CUTTING OR DRILLING. DO NOT USE TORCHES FOR CUTTING UNLESS APPROVED BY THE ENGINEER OF RECORD.
 - 1.8. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND EXISTING STRUCTURAL ELEMENTS.
2. **FOUNDATION**
 - 2.1. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
 - 2.2. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
 - 2.3. EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
 - 2.4. ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETCETERA, SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
 - 2.5. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
3. **REINFORCED CONCRETE MASONRY**
 - 3.1. LOAD-BEARING MASONRY PIERS OR WALLS, FOUNDATION WALLS, AND ANY OTHER MASONRY SO DESIGNATED ON THE DRAWINGS, ARE CONSIDERED TO BE STRUCTURAL MASONRY.
 - 3.2. COMPRESSIVE STRENGTH OF MASONRY UNITS:
 - SOLID CLAY UNITS 8250 PSI
 - CONCRETE UNITS 1900 PSI ON NET AREA
 - 3.3. MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F_m) IS 1,900 PSI.
 - 3.4. MORTAR SHALL BE TYPE 'S' ASTM C270.
 - 3.5. GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT ASTM C476. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3000 PSI. TO WHOM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE FILLING IS 6'-0". PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.
 - 3.6. REINFORCING GRADE AND DETAILS FOR MASONRY, SHALL BE AS THAT FOR CONCRETE. TIE IN REBAR IN POSITION, AND PLACE CONCRETE AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY. TIE WYTHES WITH HORIZONTAL REINFORCING AS SPECIFIED.
 - 3.7. ALL CELLS BELOW GRADE SHALL BE FULLY GROUTED WITH MASONRY GROUT.
 - 3.8. PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C. UNLESS OTHERWISE NOTED.
 - 3.9. PLACE ALL VERTICAL REINFORCING BARS IN CENTERS OF BLOCK CELLS UNLESS OTHERWISE NOTED.
 - 3.10. FILL ALL CELLS, AT VERTICAL REINFORCING, FULL HEIGHT WITH MASONRY GROUT.
 - 3.11. CONTRACTOR SHALL COORDINATE LOCATION OF ALL OPENINGS IN MASONRY. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
 - 3.12. ALL MASONRY WORK PERFORMED SHALL BE IN ACCORDANCE WITH ACI/ASCE 530. MASONRY CONSTRUCTION AND MATERIALS USED, SHALL CONFORM TO ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
 - 3.13. UNLESS OTHERWISE SHOWN, MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 40'-0" ON CENTER FOR BRICK AND OF 25'-0" FOR CMU. THE JOINT SHALL BE FORMED USING PVC MATERIAL CONFORMING TO ASTM D2287, TYPE PVC 654-4. COORDINATE LOCATION OF JOINTS WITH THE ARCHITECTURAL ELEVATIONS.
4. **CONCRETE**
 - 4.1. ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES UNLESS OTHERWISE NOTED, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f_c) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE.
 - 4.2. GROUT FOR BASE PLATES SHALL BE NON-METALLIC, NON-SHRINKABLE GROUT, AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH, AT 28 DAYS, OF 5000 PSI.
 - 4.3. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
 - 4.4. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH $\frac{3}{4}$ " x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
 - 4.5. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS, AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED, WITH A CLASS B TENSION SPLICE, AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.
 - 4.6. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING / DAMPROOFING DETAILS.
 - 4.7. ALL DONELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - 4.8. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.
 - 4.9. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL WALL / SLAB OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - 4.10. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
 - 4.11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
 - 4.12. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
 - 4.13. AT CORNERS AND INTERSECTIONS, PROVIDE BARS OF THE SAME NUMBER AND SIZE AS THE LONGITUDINAL BARS IN THE FOOTING.
 - 4.14. CONCRETE MATERIALS SHALL BE AS FOLLOWS:
 - 4.14.1. USE TYPE I/II PORTLAND CEMENT CONFORMING TO ASTM C150
 - 4.14.2. AGGREGATE SHALL CONFORM TO ASTM C33 (FINE AND COARSE AGGREGATES)
 - 4.14.3. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260
 - 4.14.4. PLASTICIZER CAN BE USED TO IMPROVE WORKABILITY IF REQUIRED
 - 4.15. CONCRETE MIX DESIGN:
 - 4.15.1. MAXIMUM WATER/CEMENT RATIO - 0.50 FOR SLAB, 0.55 FOR FOOTINGS AND OTHER CONCRETE UNLESS OTHERWISE NOTED.
 - 4.15.2. SLUMP SHALL BE 4 INCHES TO 6 INCHES (WITHOUT PLASTICIZER)
 - 4.15.3. AIR ENTRAINMENT SHALL BE 4% TO 6% (EXTERIOR CONCRETE)
 - 4.16. CONCRETE SLAB SHALL BE CURED USING A WATER-BASED CURING COMPOUND. CURING COMPOUND SHALL BE APPLIED TO ALL HORIZONTAL SURFACES, ONCE THE SURFACE WATER DISSIPATES AND THE SURFACE IS NOT MARRED BY WALKING, APPLY PER MANUFACTURER'S SPECIFICATIONS.
 - 4.17. CONDUCT SLUMP, AIR, AND STRENGTH TESTS OF CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
 - 4.17.1. SECURE SAMPLES IN ACCORDANCE WITH "METHOD OF SAMPLING FRESH CONCRETE" (ASTM C 172). MOLD AND CURE FIVE SPECIMENS FROM EACH SAMPLE IN ACCORDANCE WITH "METHOD OF MAKING AND CURING CONCRETE COMPRESSION AND FLEXURE SPECIMENS IN THE FIELD" (ASTM C 31). FIVE SPECIMENS COMPRISE ONE TEST. TEST TWO SPECIMENS AT 7 DAYS (ASTM C 39). TEST TWO SPECIMENS AT 28 DAYS IN ACCORDANCE WITH "METHOD OF TEST FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS" (ASTM C 39). TEST EVALUATION SHALL BE CONDUCTED IN ACCORDANCE WITH PROVISIONS OF ACI 318-05. KEEP ONE SPECIMEN IN RESERVE.
 - 4.17.2. MAKE ONE STRENGTH TEST FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF FOR EACH MIX DESIGN OF CONCRETE PLACED IN ONE DAY, EXCEPT THAT IN NO CASE SHALL A GIVEN MIX DESIGN BE REPRESENTED BY LESS THAN THREE TESTS.
5. **STRUCTURAL STEEL**
 - 5.1. DETAILING OF STRUCTURAL STEEL CONNECTIONS, MUST BE CONSISTENT WITH RECOGNIZED, PUBLISHED METHODS, SUCH AS THE "AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION", "DETAILING FOR STEEL CONSTRUCTION", OR "VOLUME II CONNECTIONS MANUAL OF STEEL CONSTRUCTION".
 - 5.2. MEMBERS AND CONNECTIONS NOT FULLY DEVELOPED ON THE CONTRACT DRAWINGS, AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT SHOWN ON THE CONTRACT DRAWINGS, SHALL BE DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, AND DETAILED ON THE SHOP DRAWINGS.
 - 5.3. ALTERNATIVE CONNECTION DETAILS, MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR, ONLY IF ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS, PREPARED AND SEALED BY AN ENGINEER, LICENSED IN THE PROJECT'S JURISDICTION. FAILURE TO SUBMIT SUCH CALCULATIONS FOR REVIEW, CONCURRENT WITH SHOP DRAWING ERECTION PLANS AND DETAILS, WILL BE CAUSE FOR REJECTION OF THAT SUBMITTAL.
 - 5.4. CALCULATIONS FOR DETAILS, MUST SHOW A RATIONAL ANALYSIS OF A COMPLETE LOAD PATH, INCLUDING LOCAL EFFECTS ON WEBS, FLANGES ETC., OF THE CONNECTED MEMBERS AND THE DEVICES (PLATES, SEATS, BRACKETS, BOLTS, WEBS, ETC.) AFFECTING ALL CONNECTIONS.
 - 5.5. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION, SHALL CONFORM TO THE "AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (MARCH 9, 2005), AND THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (MARCH 18, 2006).
 - 5.6. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, AWS D1.1. ELECTRODES FOR SHOP AND FIELD WELDS, SHALL BE CLASS E70XX. ALL WELDING SHALL BE DONE BY QUALIFIED, CERTIFIED WELDERS, PER THE ABOVE STANDARD.
 - 5.7. SHOP AND FIELD TESTING OF WELDS AND BOLTS, SHALL BE PERFORMED AS OUTLINED IN THE SPECIFICATIONS.

- 5.8. ALL FILLET WELDS SHALL BE A MINIMUM OF $\frac{1}{4}$ INCH, UNLESS OTHERWISE NOTED.
- 5.9. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS, FOR THE WORK OF OTHER TRADES, WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 5.10. ALL STRUCTURAL STEEL SHAPES USED, SHALL BE IN ACCORDANCE WITH ASTM A992 SPECIFICATIONS ($F_y = 50$ KSI). ALL STRUCTURAL TUBING USED, SHALL BE IN ACCORDANCE WITH ASTM A500, GRADE B ($F_y = 48$ KSI). ALL PIPE USED, SHALL BE IN ACCORDANCE WITH ASTM A53 ($F_y = 35$ KSI). ALL MISCELLANEOUS STEEL USED, SHALL BE IN ACCORDANCE WITH ASTM A36 ($F_y = 36$ KSI).
- 5.11. ALL FIELD BOLTED CONNECTIONS, SHALL BE BEARING TYPE CONNECTIONS (THREADS INCLUDED IN THE SHEAR PLANE), WITH $\frac{3}{4}$ " DIAMETER, ASTM A325 HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED ON THE DRAWING. ALL BOLTS SHALL BE TIGHTENED TO A "SNUG-TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
- 5.12. FOR ALL FLOOR AND ROOF OPENINGS, THE CONTRACTOR SHALL VERIFY OPENING LOCATIONS WITH EQUIPMENT SELECTED, AND MAKE ANY NECESSARY MODIFICATIONS AT NO ADDITIONAL COST. IT IS THE RESPONSIBILITY OF FABRICATOR, TO RECEIVE ALL NECESSARY INFORMATION, PRIOR TO FABRICATION OF ANY STEEL.
- 5.13. ALL STRUCTURAL STEEL WHICH IS TO BE SPRAYED WITH FIREPROOFING SHALL NOT BE PRIMED OR PAINTED. STEEL WHICH IS NOT SPRAYED WITH FIREPROOFING SHALL BE PRIMED AND PAINTED. DO NOT PAINT SURFACES TO BE EMBEDDED IN CONCRETE.
- 5.14. BEAM END CONNECTIONS, SHALL BE DESIGNED FOR A MINIMUM GRAVITY LOAD OF 50% U.D.L., PER THE "AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION", UNLESS OTHERWISE INDICATED.
- 5.15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED, TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT, UNTIL ALL PERMANENT BRACING, ROOF & WALL SHEATHING, OR METAL ROOF DECK ARE IN PLACE, TO RESIST LATERAL MOVEMENT OF THE FRAME.
- 5.16. ALL ANCHOR BOLTS SHALL BE ASTM A1554 OR 36 (36KSI)

6. OPEN WEB STEEL BAR JOISTS

- 6.1. DESIGN, FABRICATION, AND ERECTION OF JOISTS, SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
- 6.2. SIZE AND SPACING OF TOP AND BOTTOM CHORD BRIDGING, SHALL BE IN ACCORDANCE WITH SJI SPECIFICATIONS. FOR ROOF JOISTS, SPACE BRIDGING TO LIMIT L/r OF BOTTOM CHORD TO 200. JOIST MANUFACTURER TO VERIFY BRIDGING REQUIREMENTS FOR UPLIFT.
- 6.3. WELD JOISTS TO STEEL SUPPORTS WITH A $\frac{3}{4}$ " x 2" LONG FILLET WELD, EACH SIDE OF THE JOIST, UNLESS OTHERWISE NOTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, AS SPECIFIED UNDER THE 'STRUCTURAL STEEL' SECTION OF THESE GENERAL STRUCTURAL NOTES.
- 6.4. CONNECT DECK TO JOISTS AS DETAILED AND SPECIFIED.
- 6.5. DESIGN JOISTS FOR A NET UPLIFT OF 20 PSF.
- 6.6. ANY LOADS ABOVE 100 POUNDS, AND UP TO 250 POUNDS SHALL BE SUPPORTED FROM A JOIST PANEL POINT. ANY LOAD IN EXCESS OF 250 POUNDS, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR, AND MOUNTED AS PER THE JOIST ERECTION APPROVAL DRAWINGS. NO LOADS IN EXCESS OF 250 POUNDS MAY BE HUNG FROM THE JOISTS, AT ANY PANEL POINT, WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

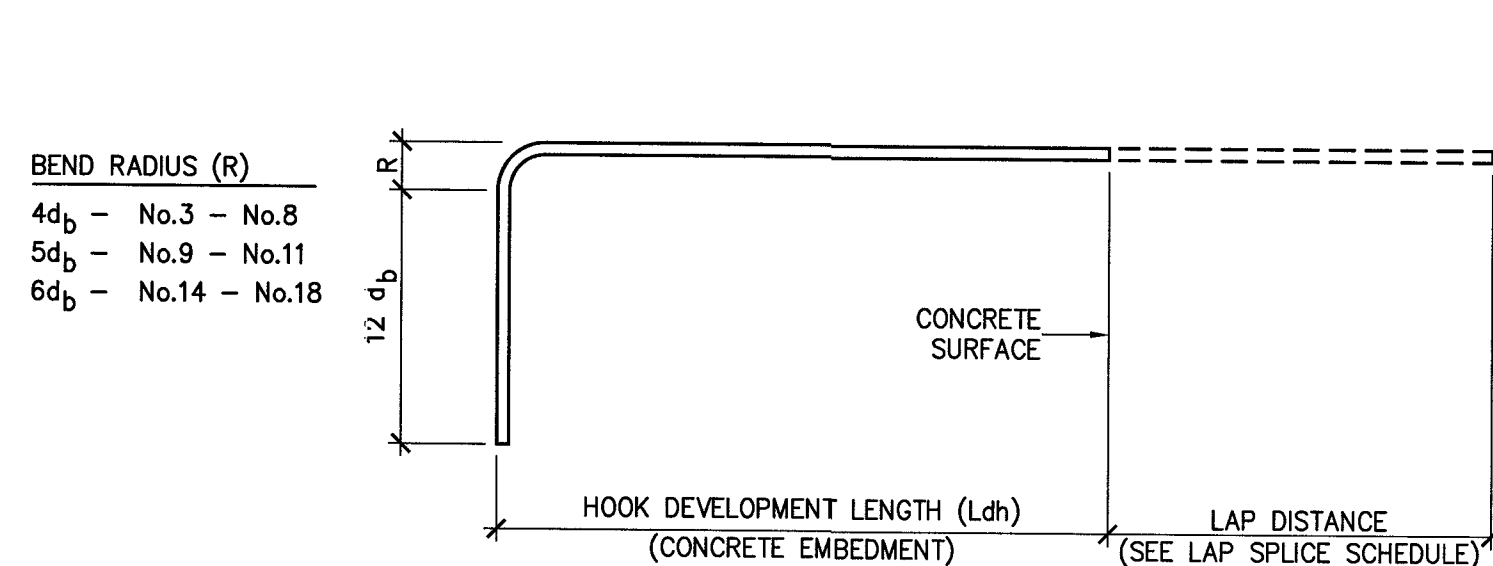
7. COLD FORMED METAL FRAMING

- 7.1. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE MANUFACTURER'S SPECIFICATIONS.
- 7.2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) 'SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS', LATEST EDITION.
- 7.3. ALL STRUCTURAL MEMBERS SHALL BE FORMED OF CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENT OF ASTM-A446, WITH A MINIMUM YIELD STRENGTH OF 40 KSI.
- 7.4. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED AND CONFORM TO ASTM-A525.
- 7.5. INSTALL JACK AND KING STUDS AT ALL WINDOW AND DOOR OPENINGS IN EXTERIOR WALLS AND INTERIOR LOAD-BEARING WALLS PER THE BOX BEAM HEADER SCHEDULE.
- 7.6. ALL EXTERIOR STUD WALLS ARE LOAD BEARING UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON CONNECTIONS. ALL EXTERIOR WALL STUDS SHALL BE 6", 16 GA., SPACED AT 16" O.C., UNLESS OTHERWISE NOTED. STUD TRACK GAUGE SHALL MATCH THE STUD GAUGE SPECIFIED UNLESS OTHERWISE NOTED.
- 7.7. BOTTOM TRACK SHALL BE ATTACHED WITH 'HILTI X-U' POWDER ACTUATED FASTENERS (0.157" SHANK DIAMETER) WITH 1 $\frac{3}{4}$ " EMBEDMENT AT 12" O.C.
- 7.8. ALL STUDS INSTALLED BELOW STEEL BEAMS OR OTHER LOAD BEARING STRUCTURAL MEMBERS SHALL BE ATTACHED WITH A CONTINUOUS DEFLECTION TRACK OR DEFLECTION CLIPS EQUIVALENT TO 'VERTITRACK' OR 'VERTICLIP' FROM 'THE STEEL NETWORK'.

8. METAL ROOF DECK

- 8.1. METAL ROOF DECK SHALL BE CUT TO PROVIDE A MINIMUM THREE-SPAN CONDITION.
- 8.2. METAL ROOF DECK SHALL BE SECURELY WELDED THROUGH THE DECK ONTO THE SUPPORTING MEMBERS WITH $\frac{3}{8}$ " DIAMETER PUDDLE WELDS AT 12" O.C. (36/4 PATTERN). WELDING WASHERS ARE REQUIRED FOR ALL DECK WITH A THICKNESS LESS THAN 22 GA. USE SPACING OF 6" O.C. AT ROOF PERIMETER.
- 8.3. IN LIEU OF WELDING, METAL ROOF DECK MAY BE ATTACHED TO SUPPORTING MEMBERS WITH #12 SCREWS USING THE SAME PATTERN AS FOR WELDING.
- 8.4. ALL METAL DECK SIDE-LAPS SHALL BE FASTENED WITH #12 SCREWS AT 12" O.C., MAXIMUM.
- 8.5. ALL METAL DECK SHALL BE FINISHED WITH A GALVANIZED COATING, CONFORMING TO ASTM A653 G60.
- 8.6. DECK EXPOSED TO WEATHER SHALL CONFORM TO ASTM A653 G90.
- 8.7. PROVIDE A MINIMUM 1 $\frac{1}{2}$ " DECK END BEARING (OR PER MANUFACTURER'S RECOMMENDATIONS IF GREATER). ROOF DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

MOMENT OF INERTIA, I_x (BOTTOM OF DECK)	0.155 in ⁴ /FT. WIDTH
SECTION MODULUS, S_x (BOTTOM OF DECK)	0.186 in ³ / FT. WIDTH
MOMENT OF INERTIA, I_y (TOP OF DECK)	0.183 in ⁴ /FT. WIDTH
SECTION MODULUS, S_y (TOP OF DECK)	0.192 in ³ /FT. WIDTH



STANDARD HOOKS IN TENSION (PER ACI 318-02)				
HOOK DEVELOPMENT LENGTH Ldh (INCHES)				
BAR SIZE	f_c 3000 psi	f_c 4000 psi	f_c 5000 psi	
#3	9	7	7	
#4	11	10	9	
#5	14	12	11	
#6	17	15	13	
#7	19	17	15	

- NOTES:
1. CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
 2. BAR YIELD STRENGTH (f_y) IS 60 KSI.
 3. SIDE COVER REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
 4. TIE OR STIRRUP REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
 5. REDUCTION OF EXCESS REINFORCEMENT IS NOT TAKEN.
 6. HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

d_b = BAR DIAMETER

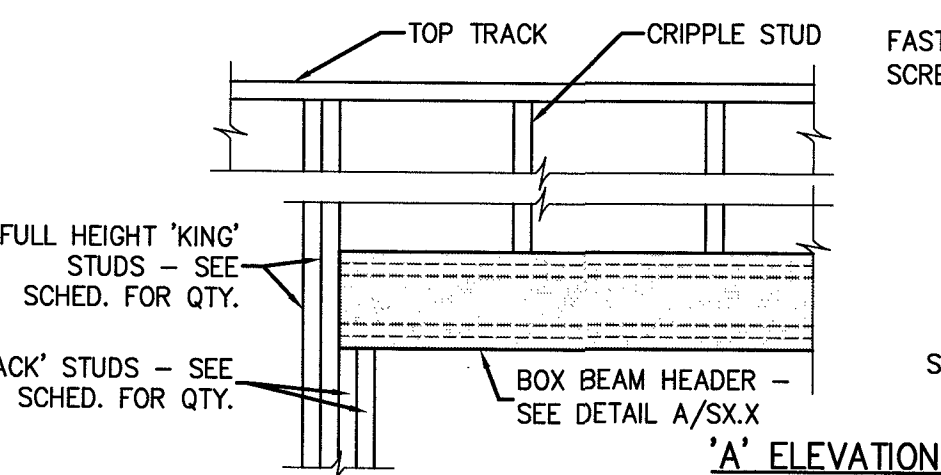
CONCRETE REBAR SPLICE SCHEDULE			
BAR SIZE	LAP LENGTH (in.)		
	f_c 3000 psi	f_c 4000 psi	f_c 5000 psi
#4	22	19	17
#5	28	24	21
#6	32	29	26
#7	48	42	37

- NOTES:
1. CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
 2. BAR YIELD STRENGTH (f_y) IS 60 KSI.
 3. BAR SPACING AND COVER REQUIREMENTS OF ACI SECTION 25.4.2.2 ARE ASSUMED TO BE MET. IF NOT, MULTIPLY LENGTHS IN TABLE BY 1.5.
 4. REDUCTION OF EXCESS REINFORCEMENT NOT TAKEN.
 5. IF MORE THAN 12" OF FRESH CONCRETE IS CAST IN MEMBER BELOW HORIZONTAL SPLICE, MULTIPLY LENGTHS IN TABLE BY 1.3.

MASONRY VENEER LINTEL SCHEDULE		
OPENING DIMENSION	ANGLE SIZE	ORIENTATION
0'-0" THRU 4'-0"	L 4 x 4 x $\frac{3}{8}$	N/A
4'-1" THRU 6'-0"	L 4 x 4 x $\frac{3}{8}$	N/A
6'-1" THRU 8'-0"	L 6 x 4 x $\frac{3}{8}$	LLV
8'-1" THRU 10'-0"	L 6 x 4 x $\frac{3}{8}$	LLV
10'-1" THRU 12'-0"	L 7 x 4 x $\frac{3}{8}$	LLV
-	-	-

- NOTES:
1. PROVIDE LOOSE STEEL ANGLE LINTELS FOR ALL MASONRY VENEER OPENINGS, PER ABOVE DATA UNLESS NOTED OTHERWISE.
 2. PROVIDE MINIMUM OF 8" BEARING FOR ALL LINTELS UNLESS NOTED OTHERWISE.
 3. COORDINATE HORIZONTAL LEG SIZE WITH ARCHITECTURAL DRAWINGS. SIZES MAY NEED TO BE CHANGED TO ACCOMMODATE AIR SPACE, INSULATION AND OTHER WALL COMPONENTS.

EXPOSED CONCRETE FINISH SCHEDULE		
AREA	FINISH	COMMENTS
ALL EXTERIOR WALLS, CURBS, UNLESS OTHERWISE NOTED	SMOOTH FORM	-
EXTERIOR CONCRETE PAVEMENT, SIDEWALKS	COARSE BROOM	-
SLAB ON GRADE	TROWEL	-
EXT. EQUIP. PADS	COARSE BROOM	-



BOX HEADER BEAM SCHEDULE			
OPENING WIDTH	JACK STUD QUANTITY	KING STUD QUANTITY	HORIZ. MEMBER QTY. & CONFIG.
0'-0" to 4'-0"	1	2	(3) 6" x 16 GA. OR (2) 8" x 16 GA.
4'-1" to 8'-0"	2	3	(3) 8" x 16 GA. OR (2) 10" x 16 GA.
8'-1" to 12'-0"	3	4	(3) 10" x 16 GA.

- NOTES:
1. USE INFORMATION IN THIS SCHEDULE UNLESS OTHERWISE NOTED ON PLAN.
 2. SEE GENERAL STRUCTURAL NOTES, SECTION FOR 'COLD FORMED METAL FRAMING' FOR ADDITIONAL INFORMATION.

1 TYP. METAL STUD BOX BEAM DETAIL
S401 3/4" = 1'-0"

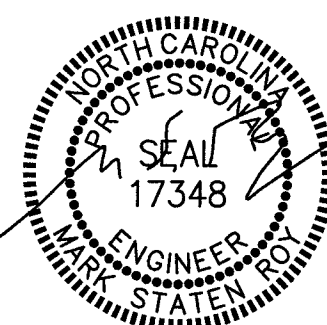
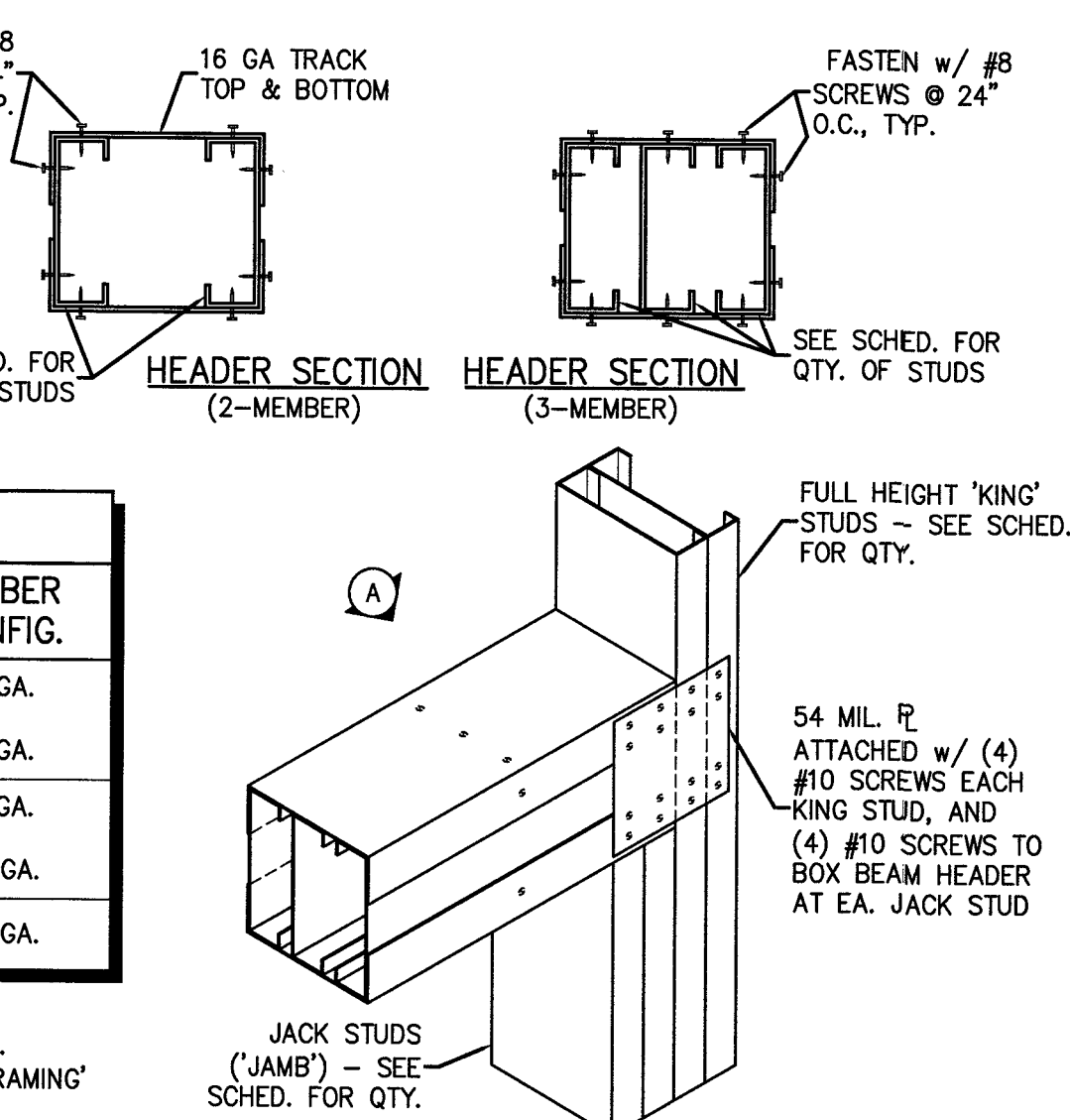
STRUCTURAL DESIGN CRITERIA:

1. **DESIGN LOADS:**
 - 1.1. ROOF DEAD LOAD MAX MIN (FOR UPLIFT)
 - ROOF MEMBRANE & INSULATION 4 PSF 2 PSF
 - SHEATHING 3 PSF 2 PSF
 - ROOF FRAMING 3 PSF 2 PSF
 - PIPING, DUCT, ETC. 3 PSF 2 PSF
 - 15 PSF 7 PSF
 - 1.2. LIVE LOADS
 - ROOF LIVE LOAD - ALL AREAS GREATER OF 20 PSF MINIMUM OR SNOW LOAD. LIVE LOAD REDUCTION CAN BE USED IN ACCORDANCE WITH 2018 NBC, SECTION 1607.10
 - 1ST FLOOR LIVE LOAD 100 PSF
 - 1.3. SNOW LOAD
 - GROUND SNOW LOAD = 10 PSF (CAMERON, NC)
 - SNOW LOAD IMPORTANCE FACTOR: I = 1.0
 - SNOW EXPOSURE FACTOR = 1.0
 - SNOW THERMAL FACTOR = 1.0
 - ROOF SNOW LOAD = 7 PSF
 - BASIC DESIGN ROOF SNOW LOAD = 7.0 PSF
 - 1.4. WIND LOAD
 - BASIC WIND SPEED: $V_{ult} = 117$ MPH (CAMERON, NC)
 - RISK CATEGORY: I X II III IV
 - WIND EXPOSURE CATEGORY: 'B' (ASCE 7-10)
 - WIND BASE SHEAR (FOR MWFRS): $V_x = 80K$ $V_y = 34K$
 - INTERNAL PRESSURE COEFFICIENT: ± 0.55
 - 1.5. SEISMIC LOADS (N.C. STATE BLDG. CODE):
 - SEISMIC IMPORTANCE FACTOR: I = 1.0
 - RISK CATEGORY: X I II III IV
 - SEISMIC DESIGN CATEGORY: A B C D
 - MAPPED SPECTRAL RESPONSE ACCELERATION: S_s 20.6 % S_1 9.4 %
 - SPECTRAL RESPONSE COEFFICIENTS: S_{DS} 22.00 % S_{D1} 15.00 %
 - SEISMIC RESPONSE COEFFICIENT: C_s 0.2865
 - RESPONSE MODIFICATION FACTOR, R 3.25 (ORDINARY CONCENTRICALLY BRACED FRAME)
 - SITE CLASSIFICATION: A B C X D E F
- BASIC STRUCTURAL SYSTEM:
- X BEARING WALL DUAL w/ SPECIAL MOMENT FRAME
 - X BUILDING FRAME DUAL w/ INTERMEDIATE R/C OR SPECIAL STEEL MOMENT FRAME INVERTED PENDULUM
- SEISMIC BASE SHEAR $V_x = 64K$ $V_y = 64K$
- ANALYSIS PROCEDURE: SIMPLIFIED X EQUIVALENT LATERAL FORCE MODAL
- LATERAL DESIGN CONTROL: EARTHQUAKE X WIND
- 1.6. ALL DESIGN LOADS ARE PER NORTH CAROLINA STATE BUILDING CODE 2018 EDITION.
 - 1.7. WIND LOADS CONTROL THE LATERAL LOAD DESIGN. THE BUILDING UTILIZES SHEAR WALLS FOR LATERAL LOAD RESISTANCE.

2. FOUNDATION DESIGN CRITERIA:

- 2.1. MINIMUM FOOTING BEARING DEPTH BELOW GRADE IS 12 INCHES.
- 2.2. FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE MAXIMUM ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF.
- 2.3. CONTRACTOR SHALL FIELD VERIFY THE SOIL BEARING CAPACITY PRIOR TO START OF CONSTRUCTION.

CONCRETE MATERIALS SCHEDULE		
LOCATION	MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS)	REMARKS
FOUNDATIONS	3000 PSI	-
SLAB ON GRADE	4000 PSI	-
CONCRETE FOR MASONRY CORES, BOND BEAMS	3000 PSI	ASTM C476 GROUT
MISCELLANEOUS	3000 PSI	-



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ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS					
1					
2					
3					
4					
5					

PROJECT #: 26-121
DATE: 05-31-2026
DRAWN BY: RP/AMSR
CHECKED BY: RPA/GBP

DESIGN CRITERIA,
STRUCTURAL NOTES
& SCHEDULES

S401

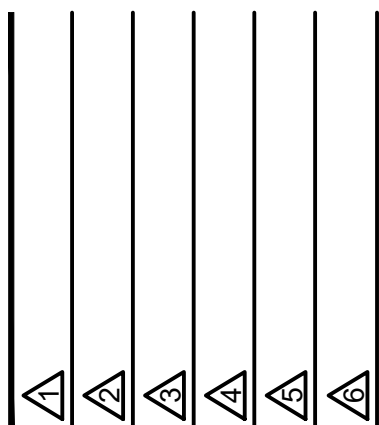
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CAMERON, NORTH CAROLINA

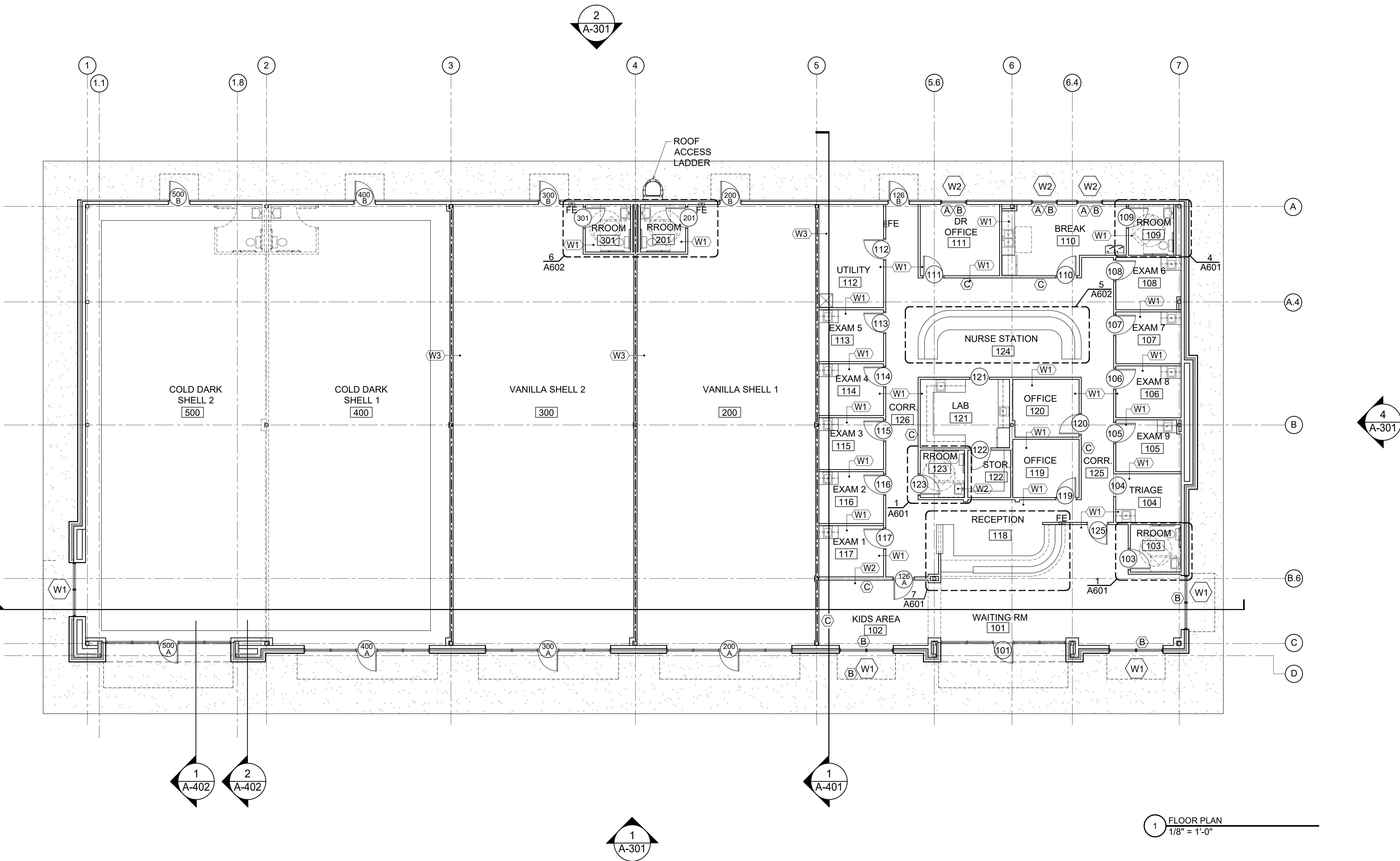
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PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

FLOOR PLAN

A-201

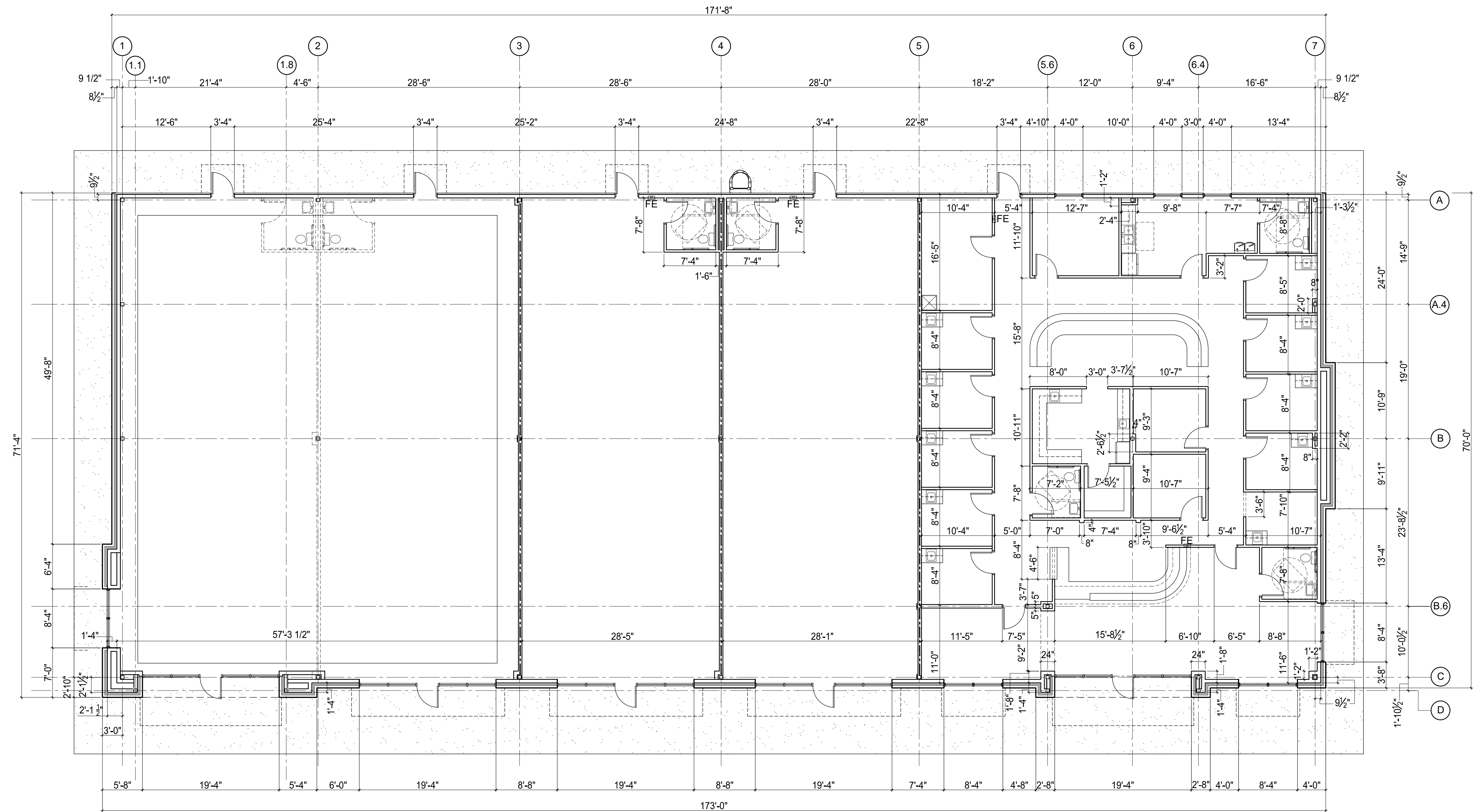


CONSTRUCTION NOTES:

- (A) PROVIDE CORIAN WINDOW SILL AT ALL WINDOWS IN PEDIATRIC DOCTOR TENANT SPACE. COLOR TO BE STANDARD WHITE.
- (B) PROVIDE WINDOW BLINDS IN PEDIATRIC DOCTOR TENANT SPACE.
- (C) PROVIDE IMAGINATIVE, ENGAGING CHILD ORIENTED PAINTED MURAL, LACEY CRIME ART. 207.485.8191. ARCHITECT TO WORK WITH ARTIST AND OWNER TO CREATE THE FINAL DESIGN.

GENERAL NOTES:

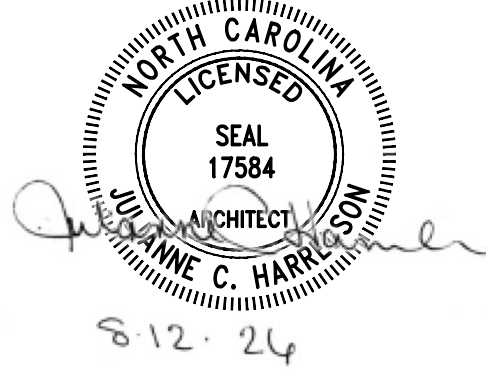
- 1) DO NOT SCALE DRAWING.
- 2) TYPICAL DIMENSIONS ARE TO FACE OF STUD, CONCRETE MASONRY UNIT, OR CENTER LINE OF COLUMN.
- 3) ALL NEW CASEWORK IS SUPPLIED BY GC.
- 4) ALL APPLIANCES PROVIDED BY GC.
- 5) DOORS 24" TO CENTERLINE FROM FACE OF CLOSEST WALL UNLESS OTHERWISE NOTED.
- 6) SOLID WOOD BLOCKING TYPICAL BEHIND ALL CASEWORK, PARTITIONS, SMART BOARDS, ACCESSORIES, SHELVEING, FIXTURES, TVS, HAND SINKS, RESTROOM ACCESSORIES AND WATER FOUNTAINS - BLOCKING TO BE SUPPLIED AND INSTALLED BY FRAMING CONTRACTOR.
- 7) B/O = BY OTHERS
- 8) TV AND ASSOCIATED WALL MOUNTS FURNISHED BY TENANT AND INSTALLED BY GC.



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



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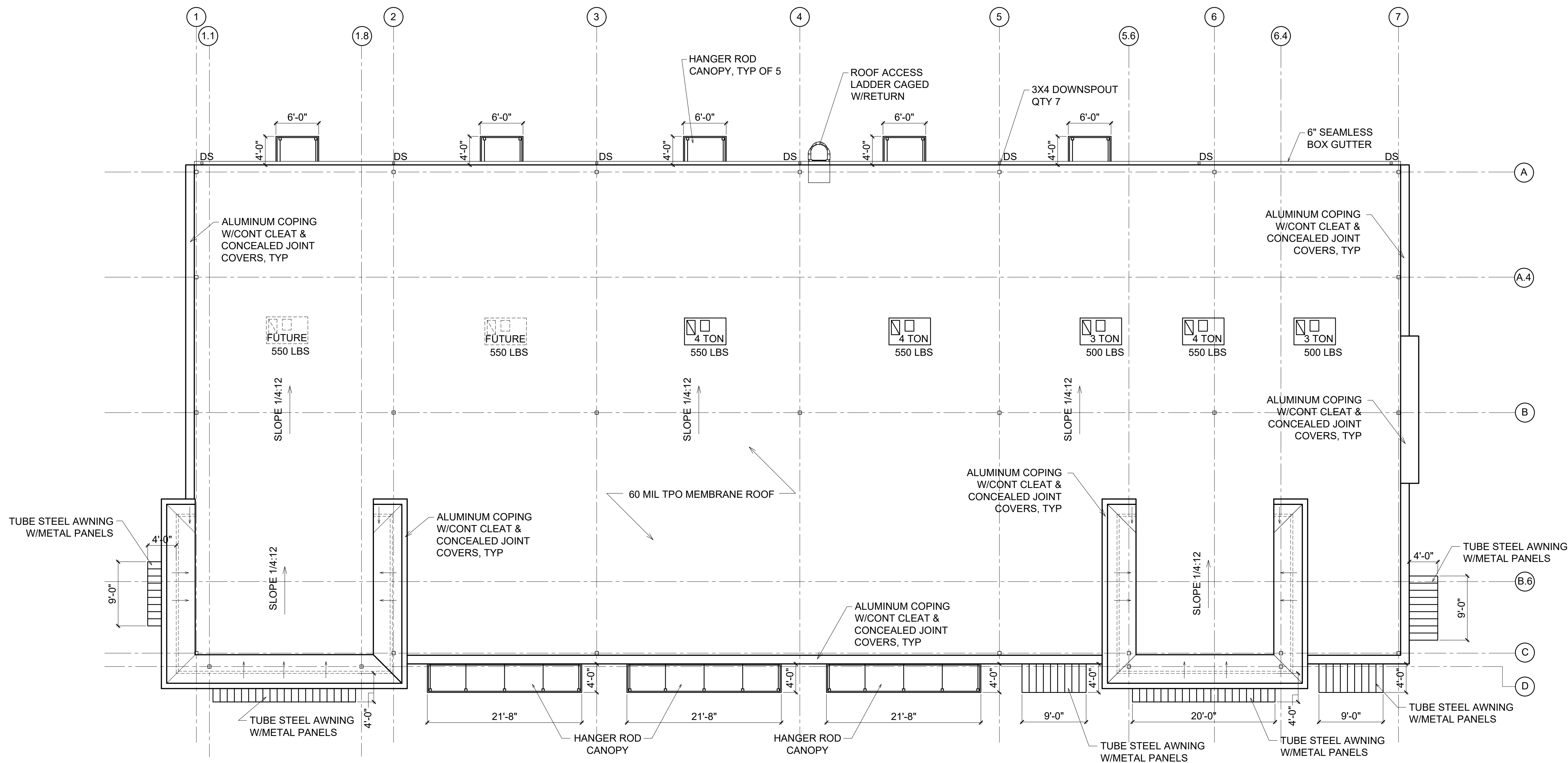
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PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

DIMENSIONED
FLOOR PLAN

A-202



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

ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

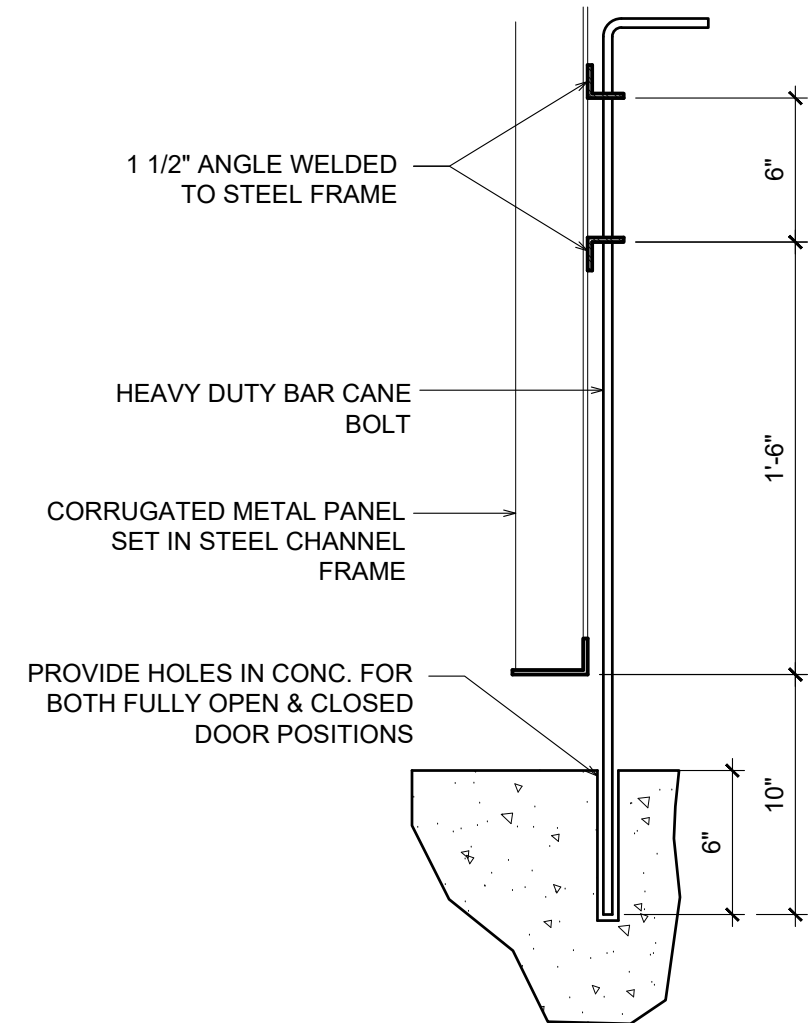
REVISIONS

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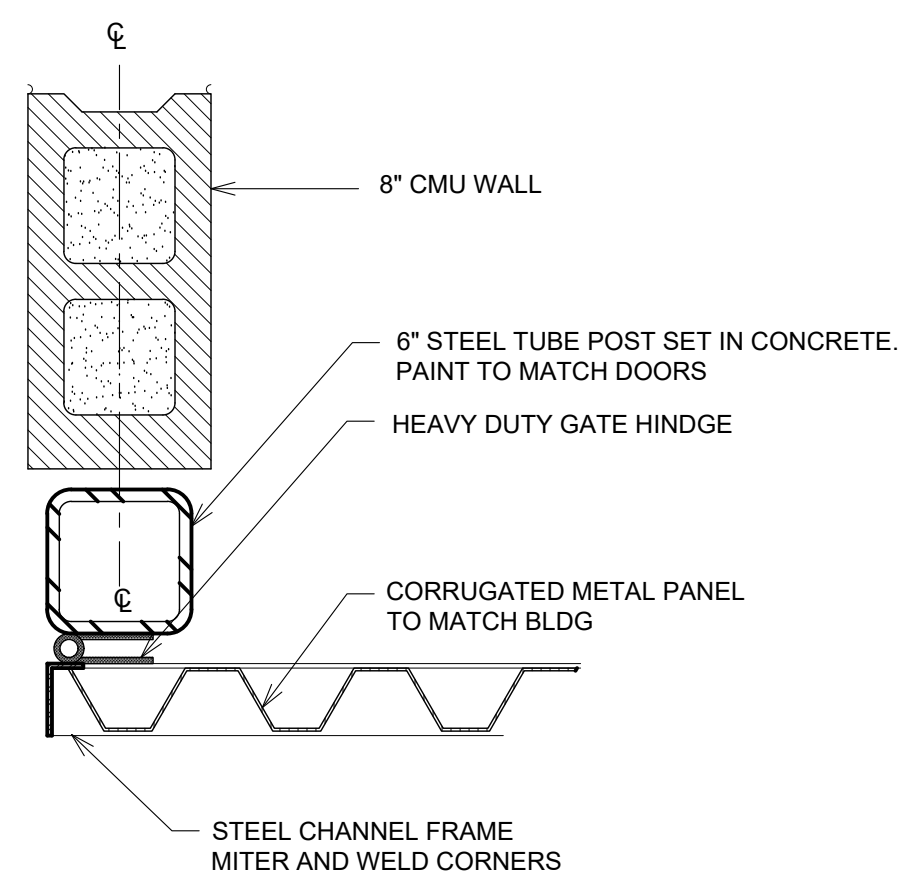
PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

ROOF PLAN

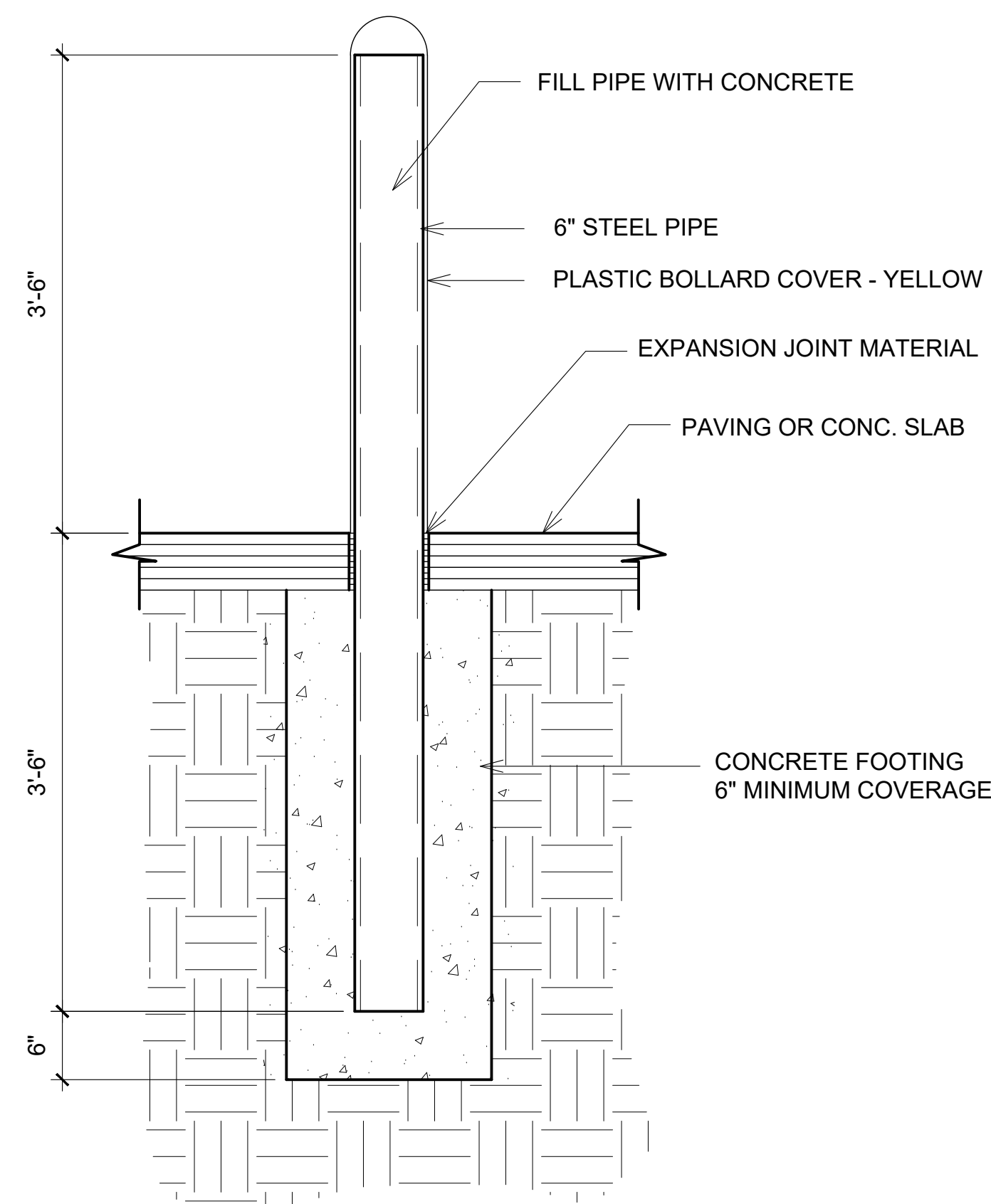
A-203



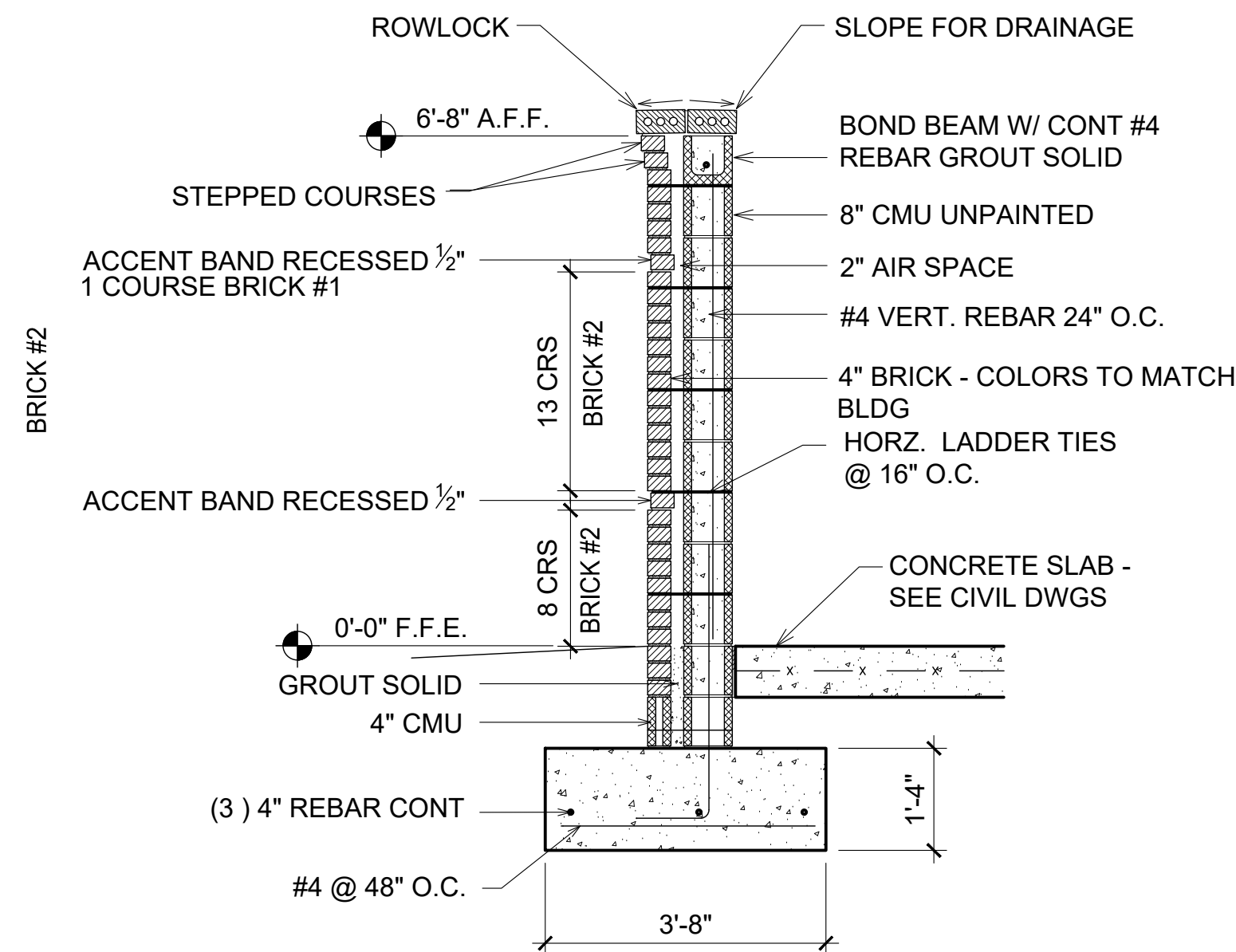
6 SECTION
1 1/2" = 1'-0"



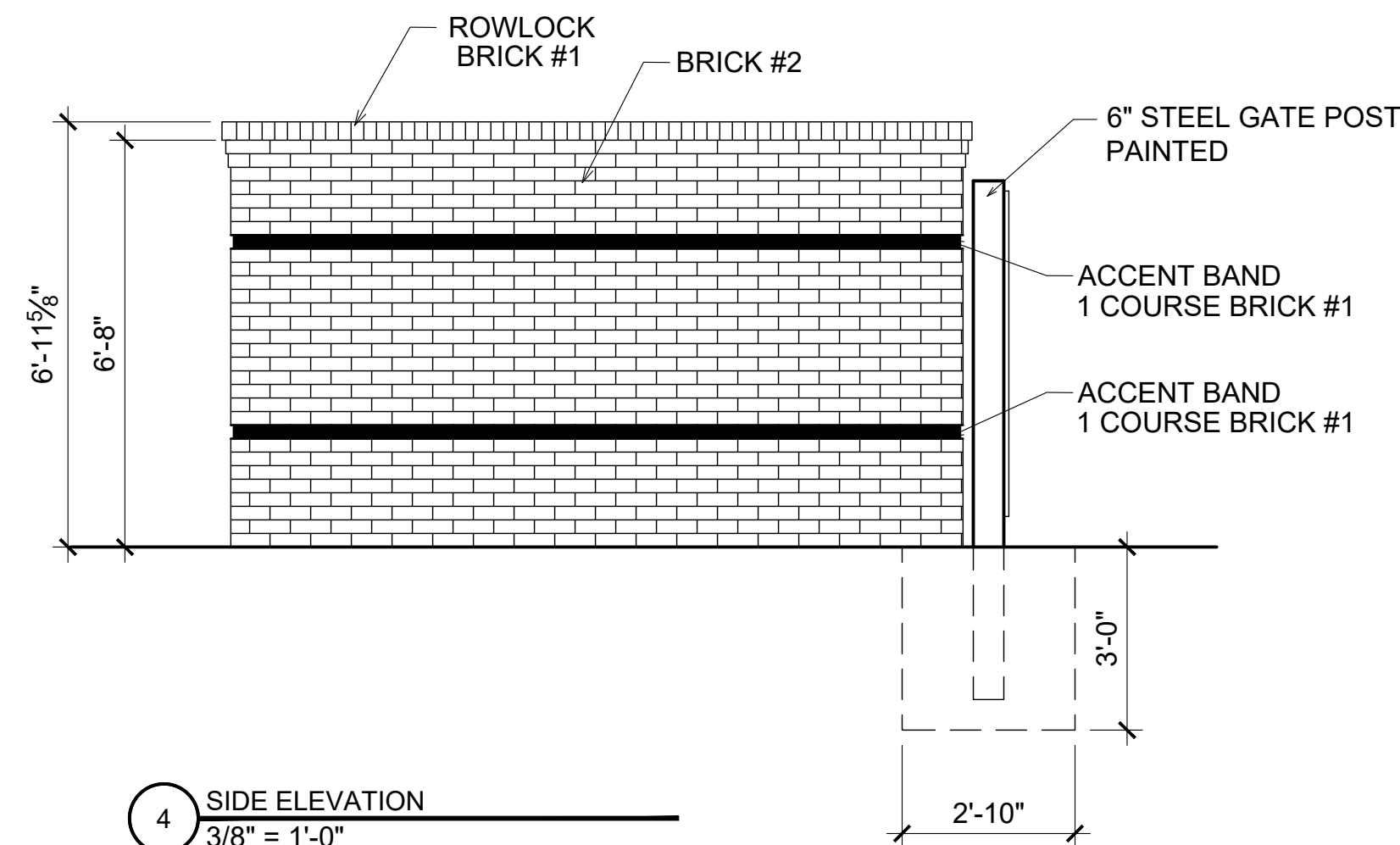
7 SECTION
1 1/2" = 1'-0"



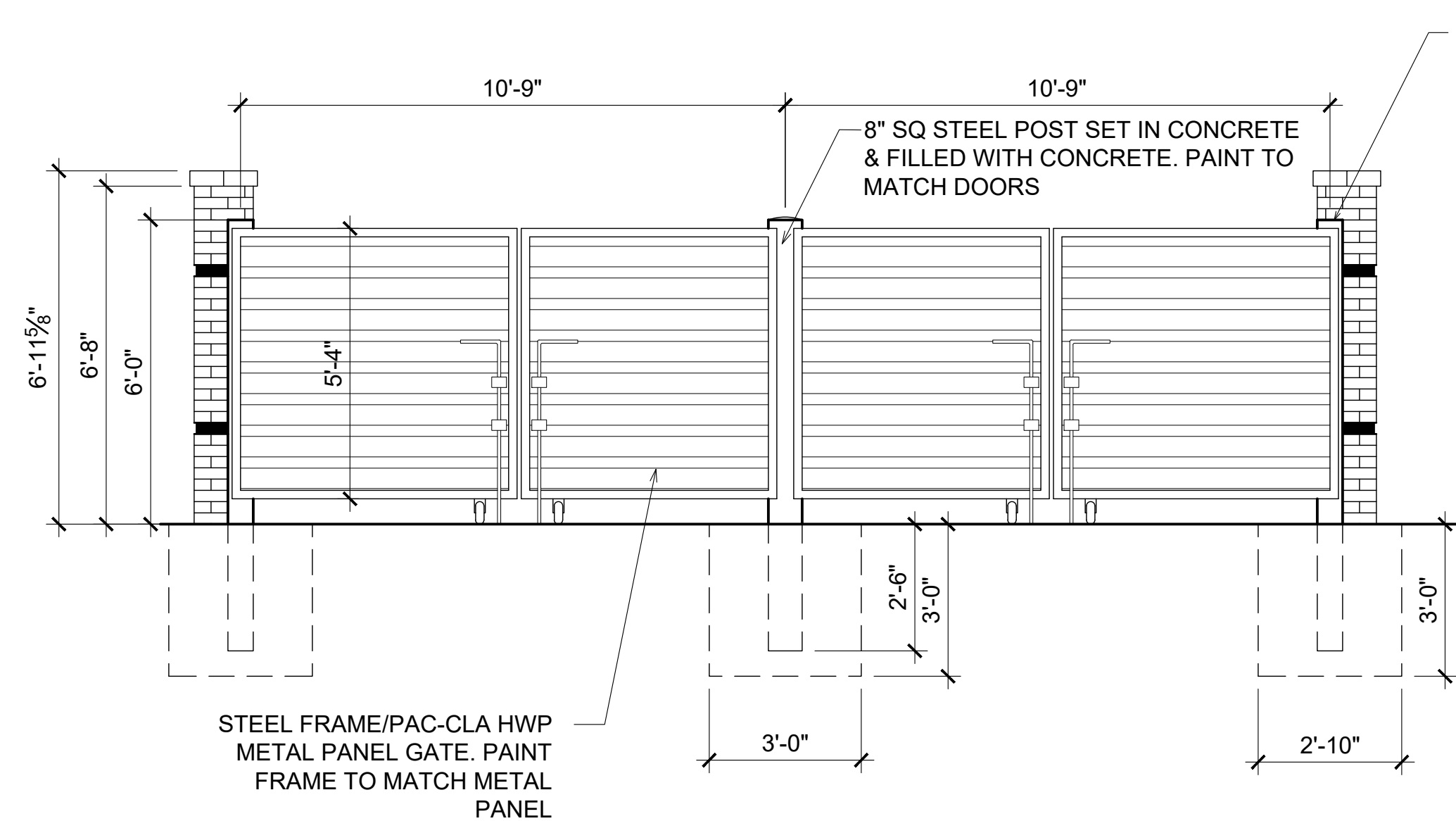
8 BOLLARD DETAIL
1" = 1'-0"



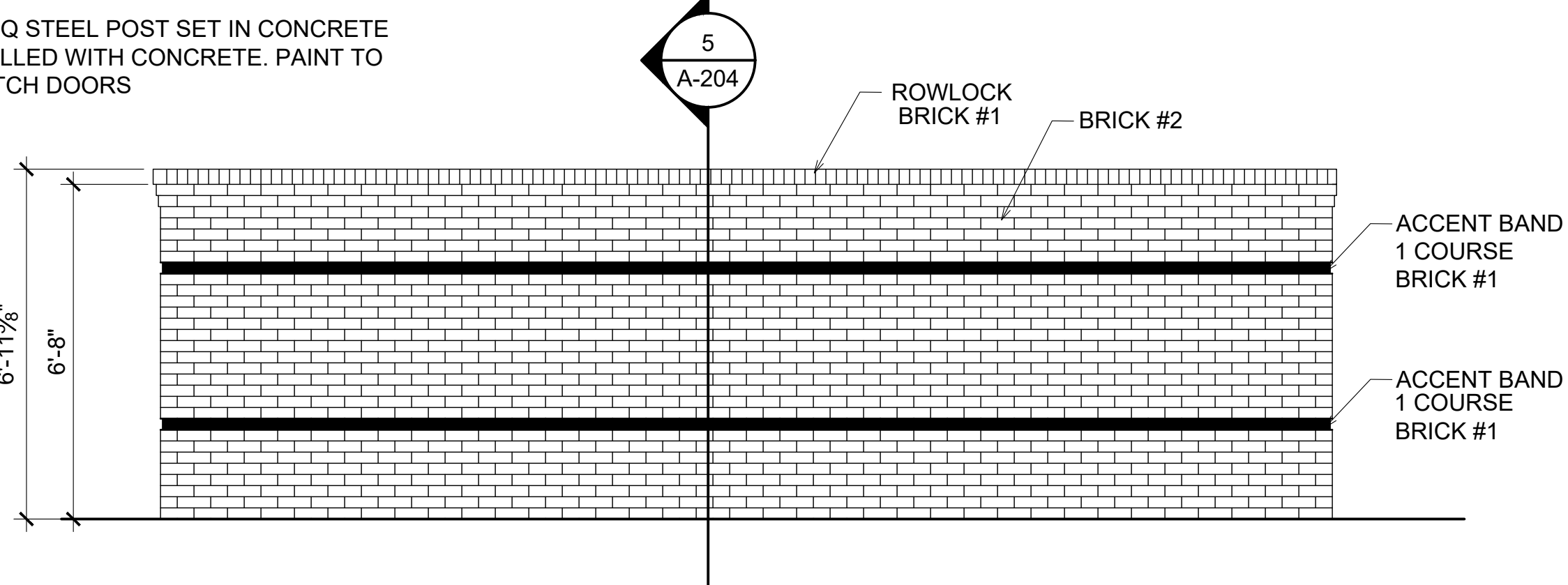
5 SECTION
1/2" = 1'-0"



4 SIDE ELEVATION
3/8" = 1'-0"



3 FRONT ELEVATION
3/8" = 1'-0"



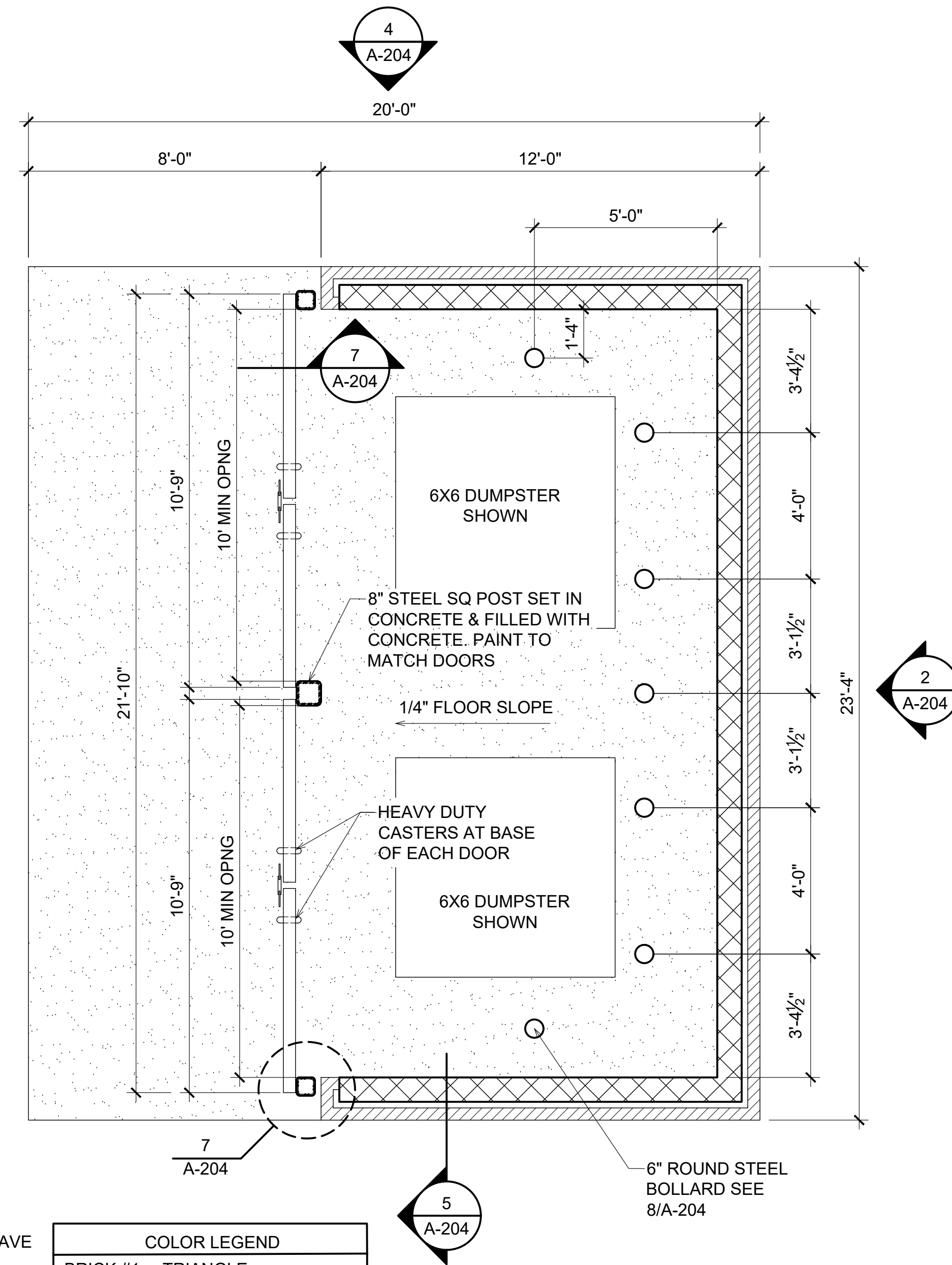
2 REAR ELEVATION
3/8" = 1'-0"

***** NOTES *****

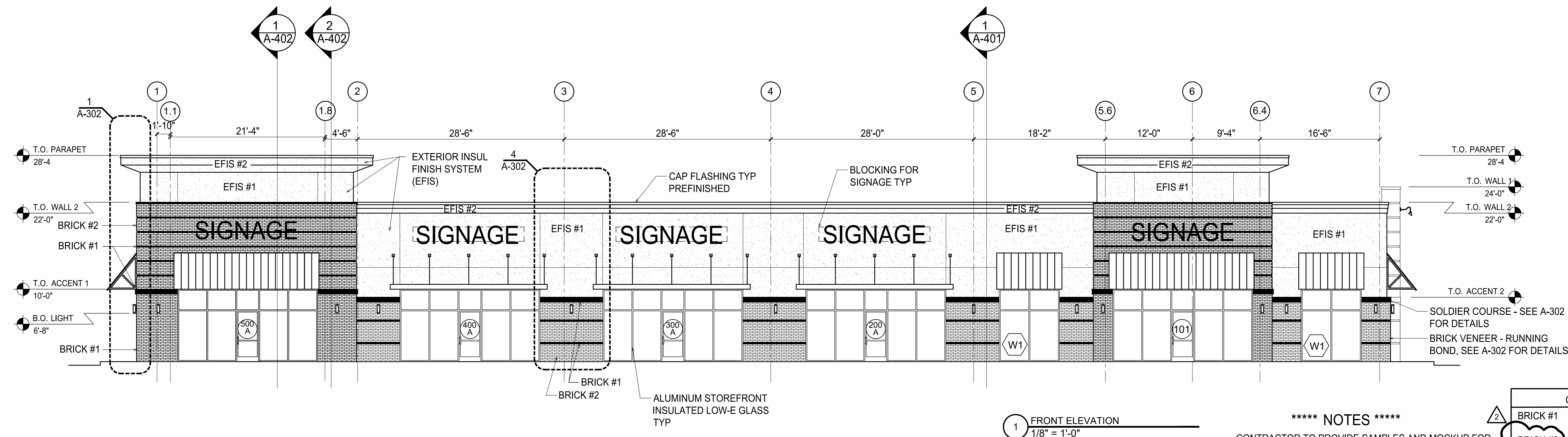
CONTRACTOR TO PROVIDE SAMPLES AND MOCKUP FOR REVIEW AND APPROVAL BY ARCHITECT AND OWNER. ARCHITECT TO HAVE FIRST APPROVAL.

MORTAR TO BE COLORED AND NOT STANDARD GRAY
COLOR CHART TO BE PROVIDED FOR FINAL SELECTION

COLOR LEGEND	
BRICK #1	TRIANGLE
BRICK #2	ASHEVILLE
	TRIANGLE
	EVELYN BAY



1 DUMPSTER CORRAL PLAN
3/8" = 1'-0"



1 FRONT ELEVATION
1/8" = 1'-0"

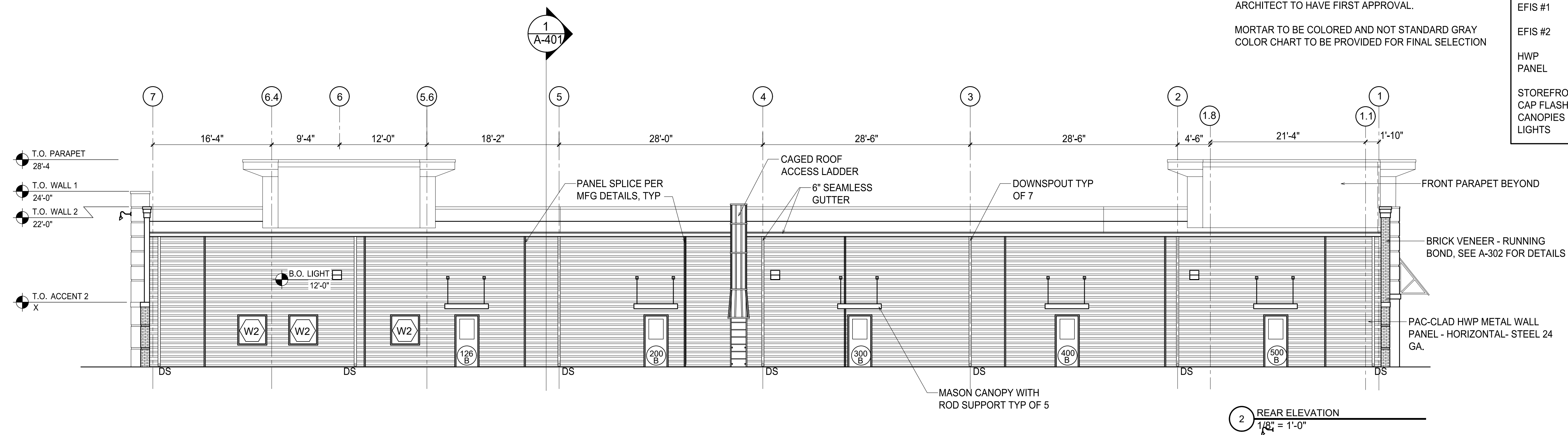
***** NOTES *****

CONTRACTOR TO PROVIDE SAMPLES AND MOCKUP FOR REVIEW AND APPROVAL BY ARCHITECT AND OWNER. ARCHITECT TO HAVE FIRST APPROVAL.

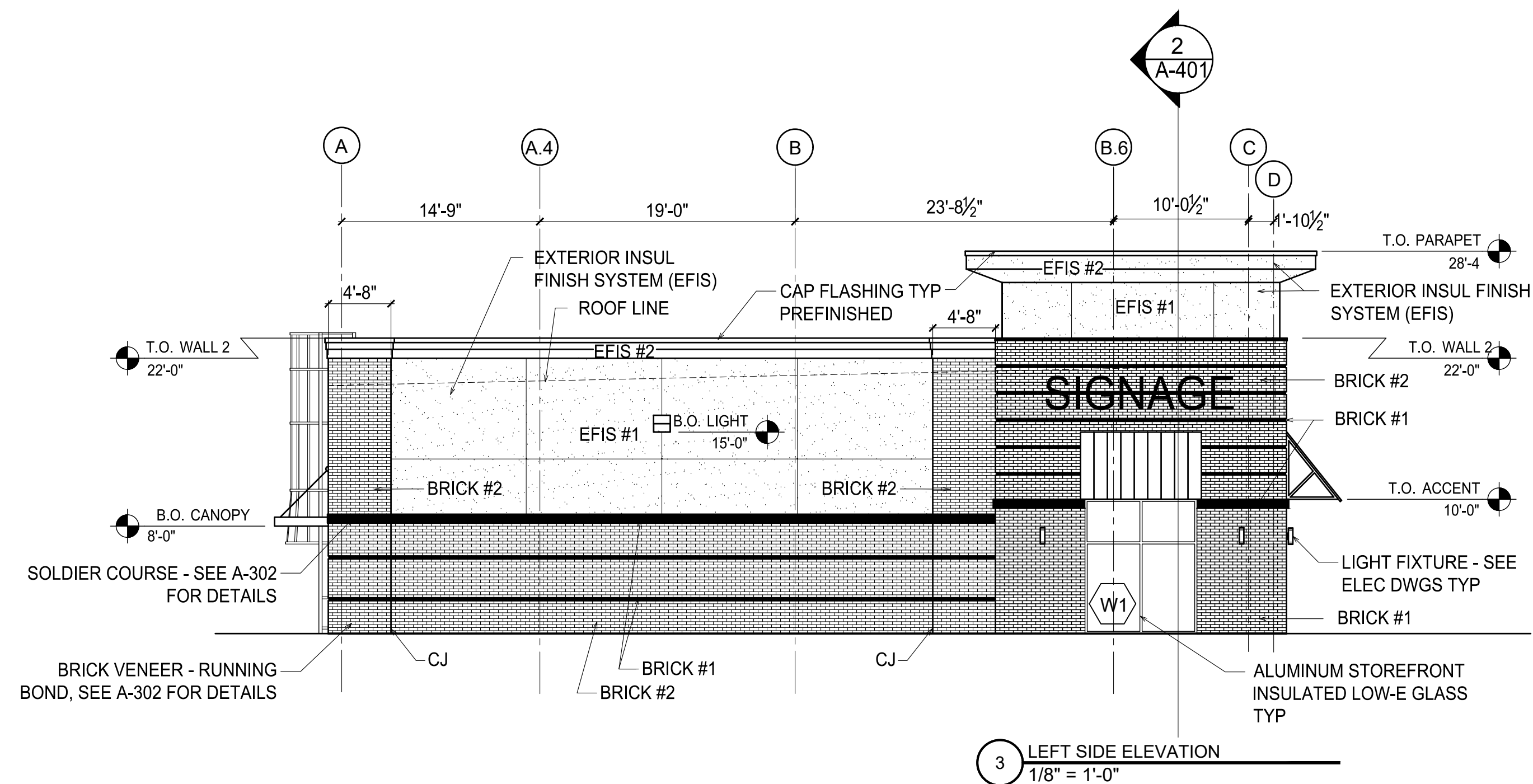
MORTAR TO BE COLORED AND NOT STANDARD GRAY
COLOR CHART TO BE PROVIDED FOR FINAL SELECTION

COLOR LEGEND

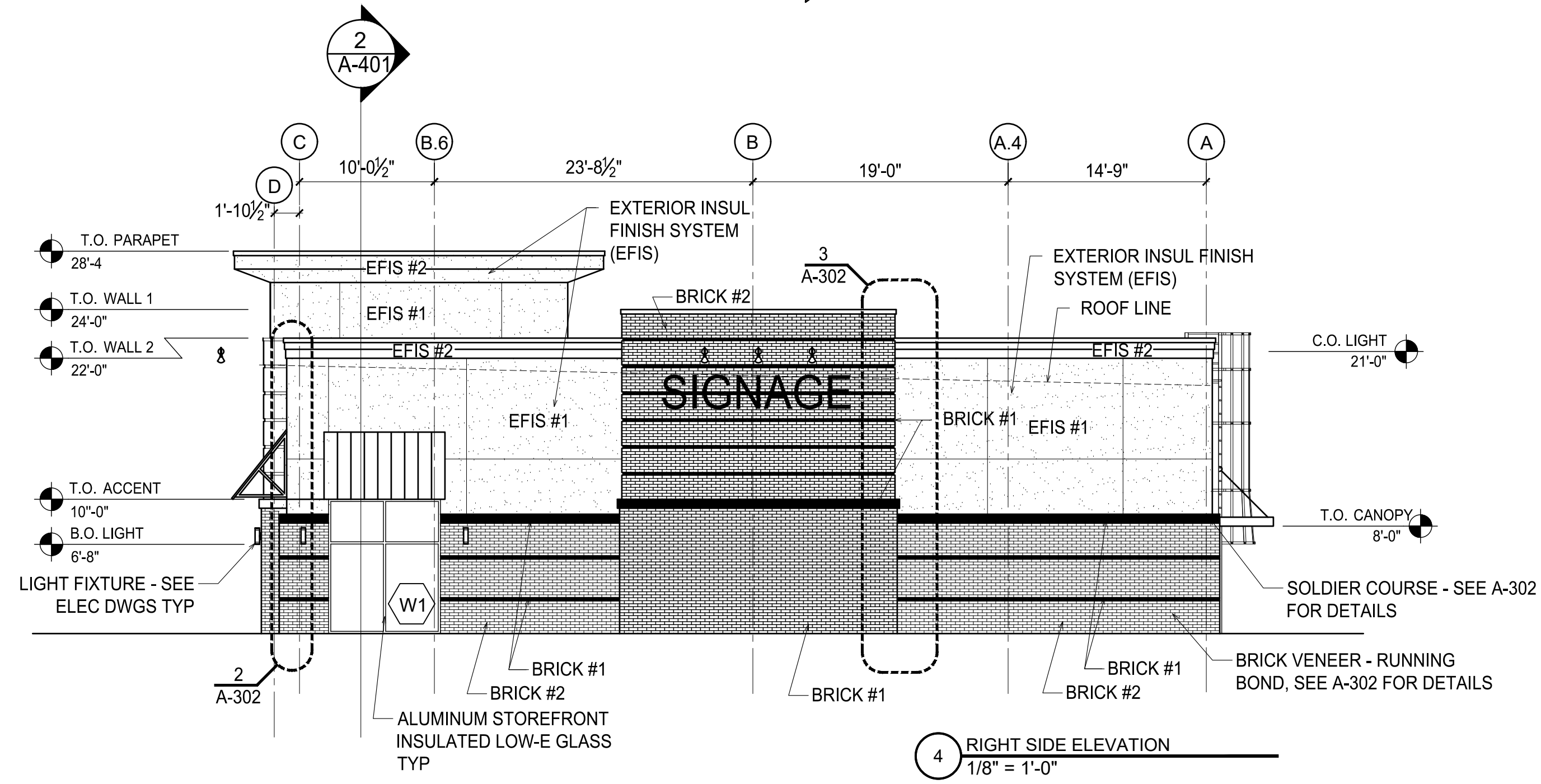
BRICK #1	TRIANGLE
BRICK #2	ASHEVILLE
EFIS #1	TRIANGLE
EFIS #2	EVELYN BAY
HWP	DRYVIT
PANEL	103 NATURAL WHITE
	DRYVIT
	452 STORMY NIGHT
	PAC-CLAD
	DARK BRONZE
STOREFRONT	BRONZE
CAP FLASHING	BRONZE
CANOPIES	BRONZE
LIGHTS	BRONZE



2 REAR ELEVATION
1/8" = 1'-0"



3 LEFT SIDE ELEVATION
1/8" = 1'-0"



4 RIGHT SIDE ELEVATION
1/8" = 1'-0"

ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS	
7.2.26 correct pricing	
7.9.26 correction brick colors	

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

ELEVATIONS

A-301

ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS
7.9.26 correction brick colors

PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

ELEVATION
DETAILS

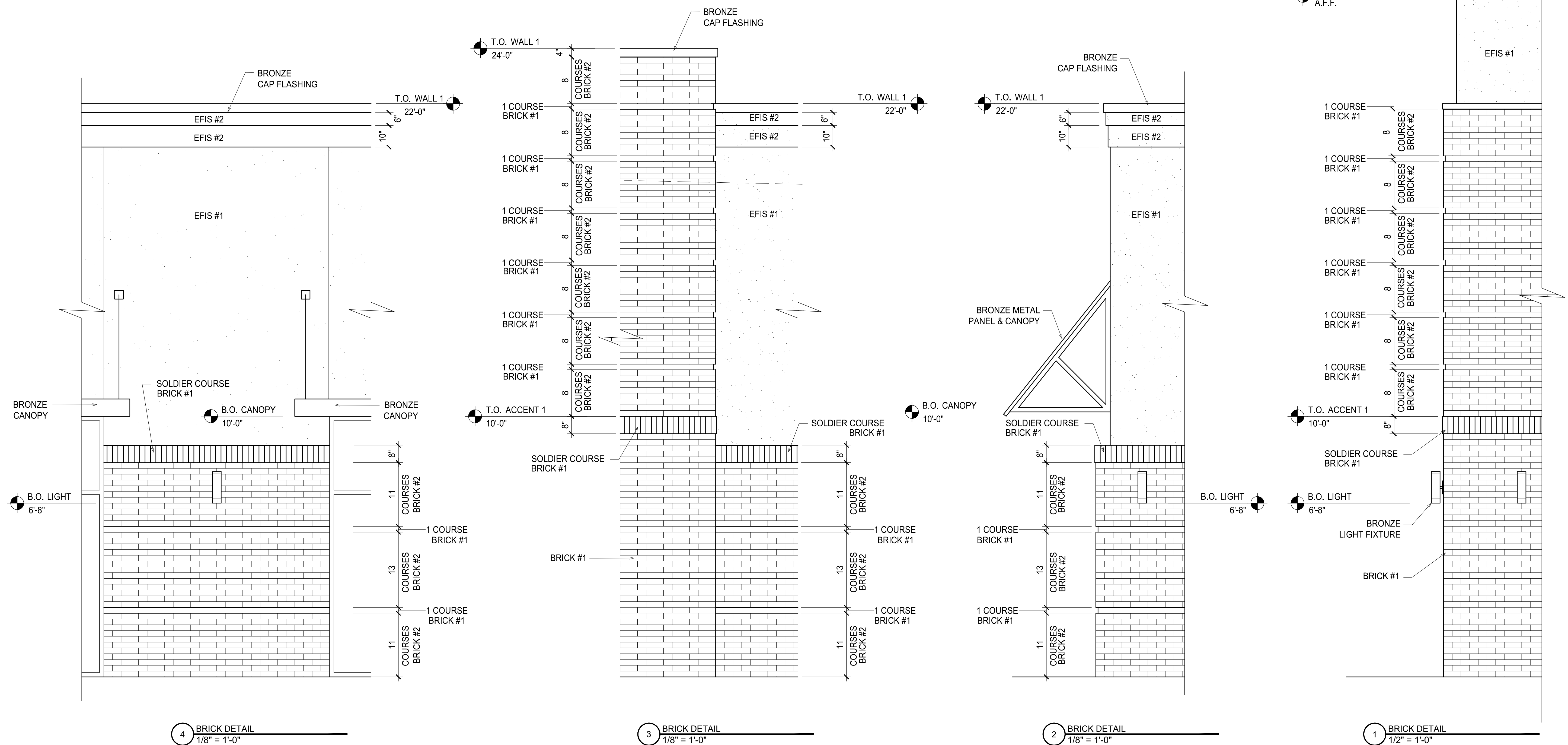
A-302

***** NOTES *****

CONTRACTOR TO PROVIDE SAMPLES AND MOCKUP FOR
REVIEW AND APPROVAL BY ARCHITECT AND OWNER.
ARCHITECT TO HAVE FIRST APPROVAL.

MORTAR TO BE COLORED AND NOT STANDARD GRAY
COLOR CHART TO BE PROVIDED FOR FINAL SELECTION

COLOR LEGEND	
BRICK #1	TRIANGLE
BRICK #2	ASHEVILLE
EFIS #1	TRIANGLE
EFIS #2	EVELYN BAY
EFIS #1	DRYVIT
EFIS #2	103 NATURAL WHITE
EFIS #1	DRYVIT
EFIS #2	452 STORMY NIGHT
HWP	PAC-CLAD
PANEL	DARK BRONZE
STOREFRONT	BRONZE
CAP FLASHING	BRONZE
CANOPIES	BRONZE
LIGHTS	BRONZE



ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

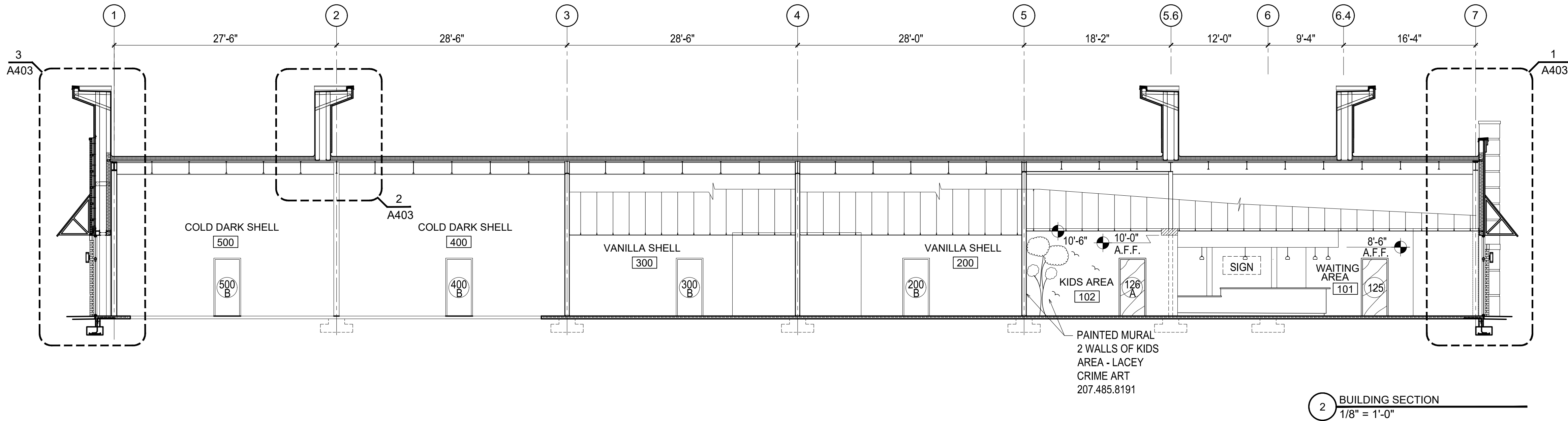
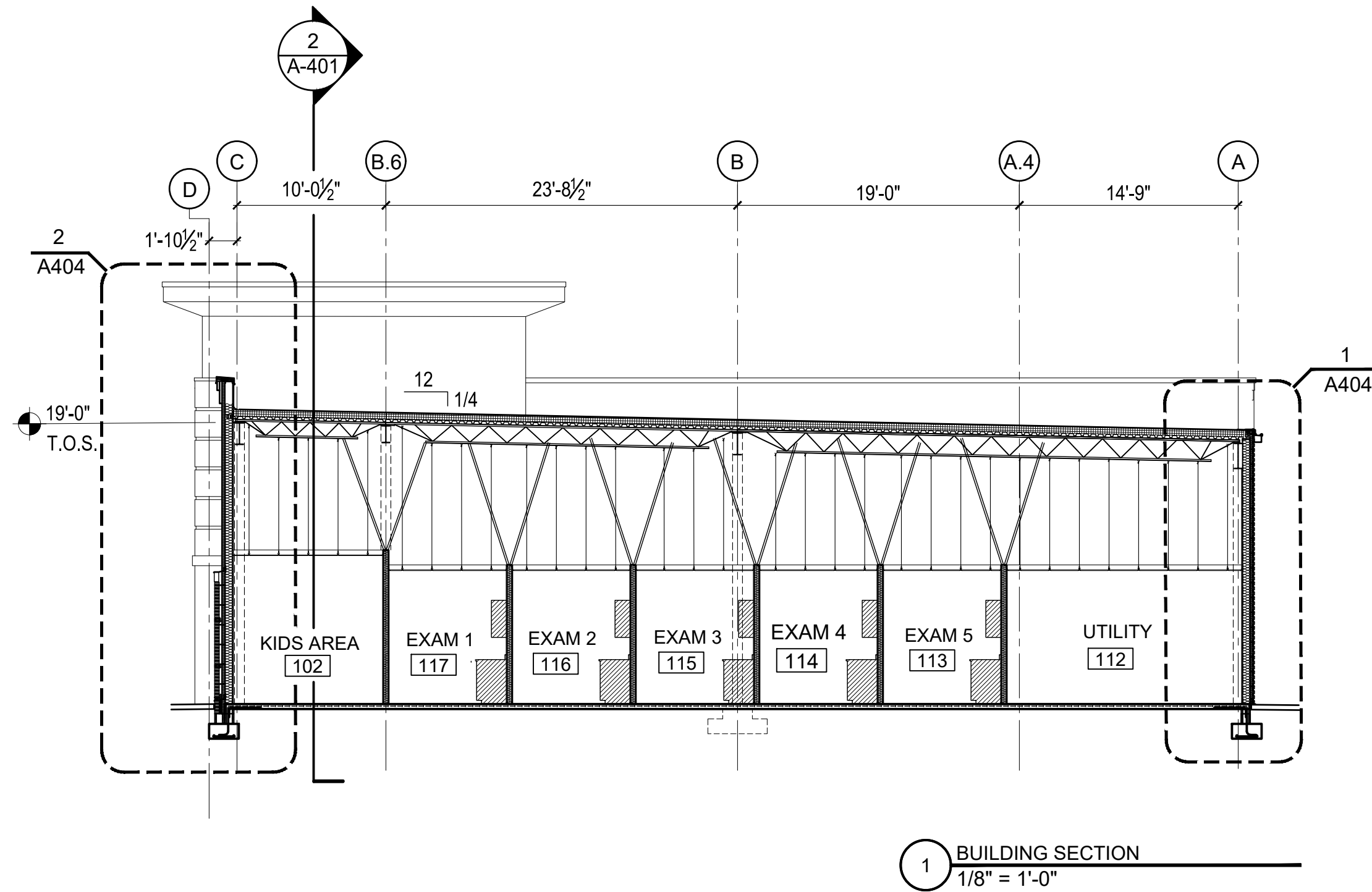
REVISIONS

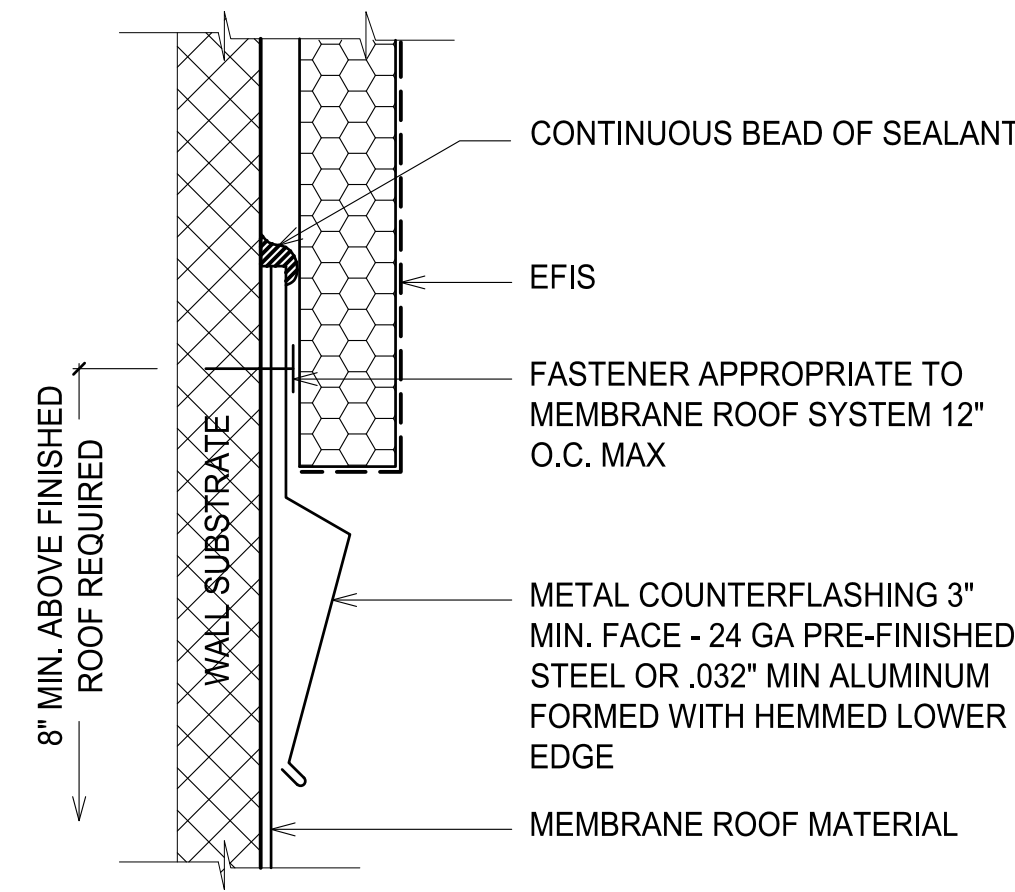
1	
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PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

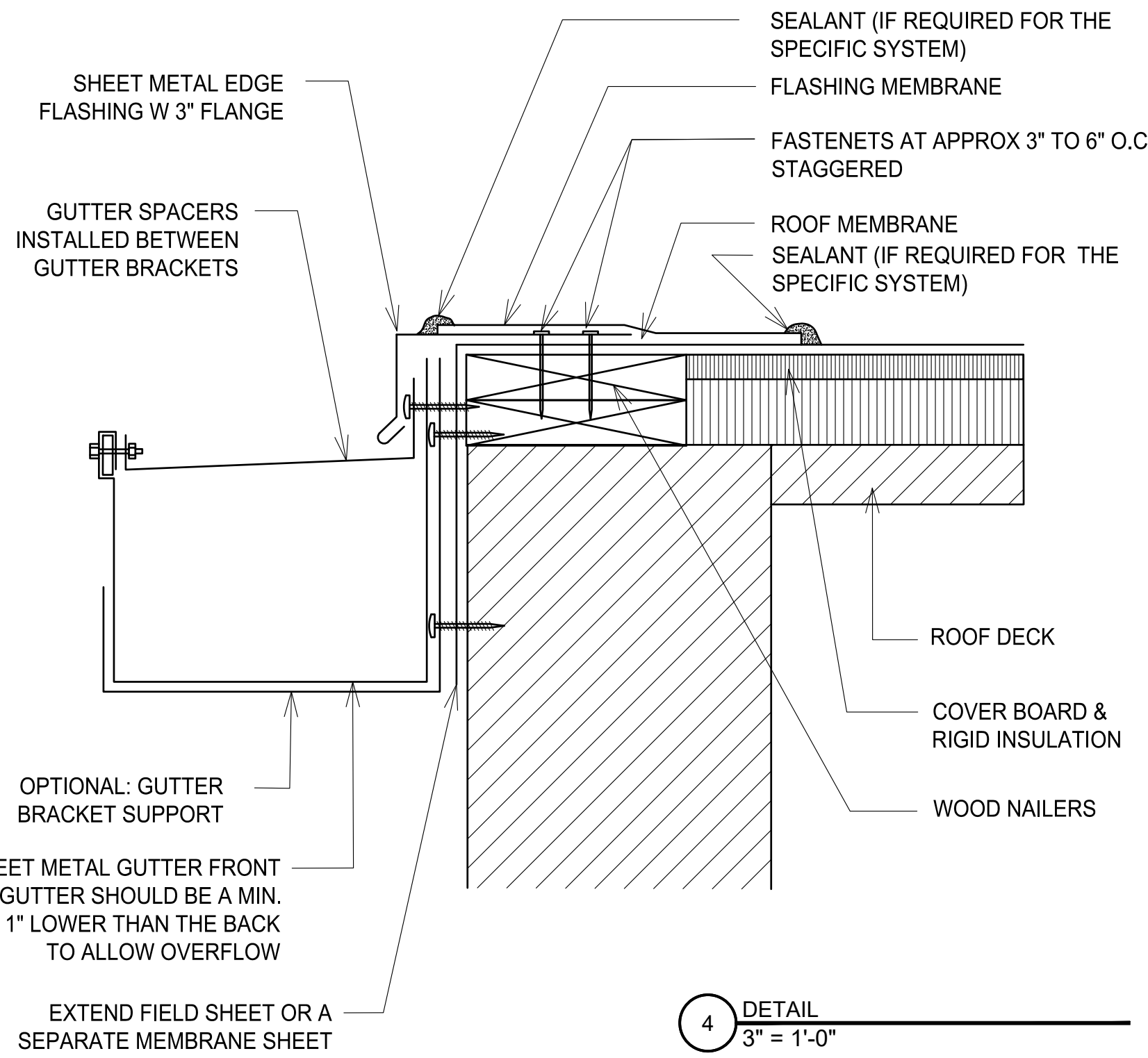
BUILDING SECTIONS

A-401

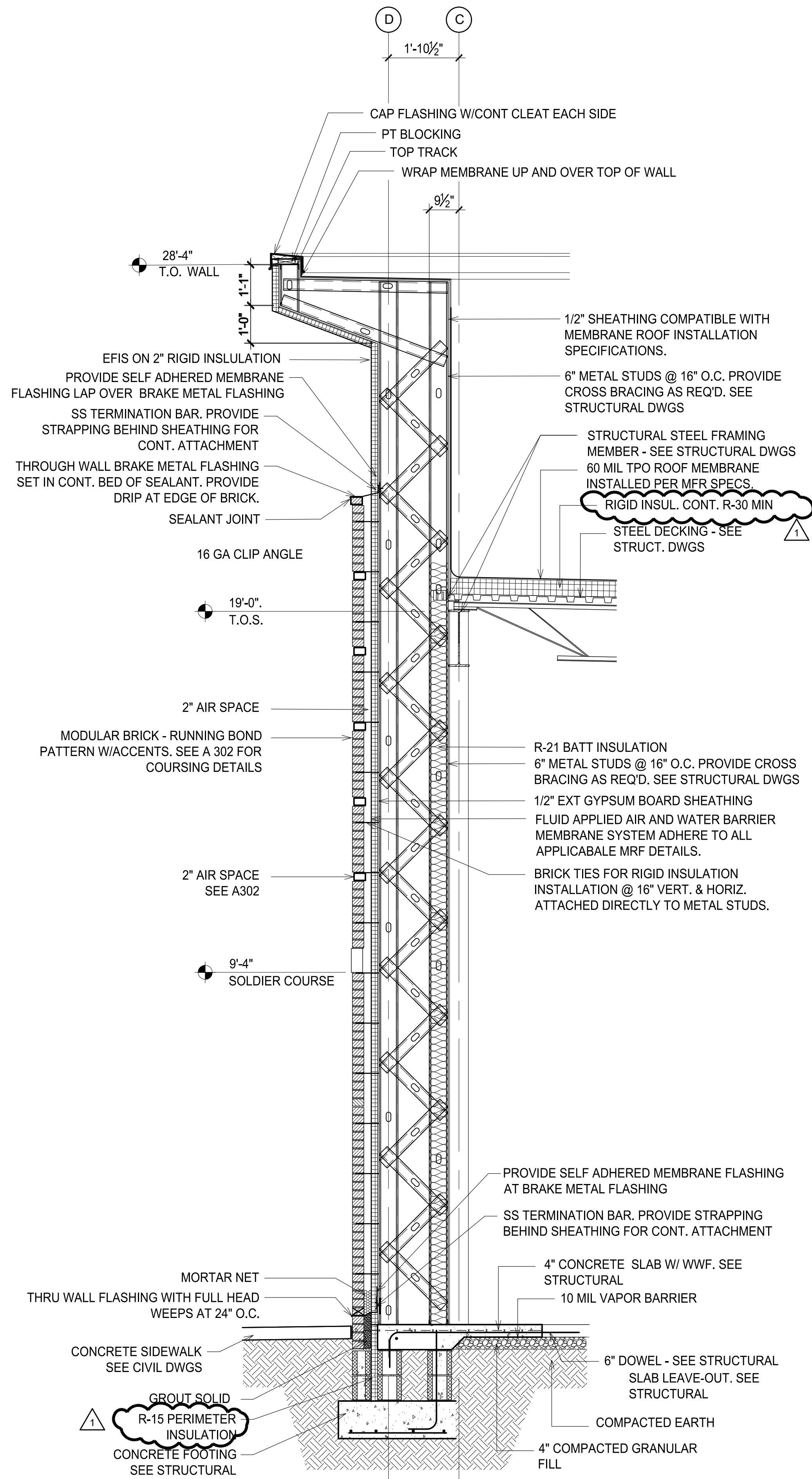




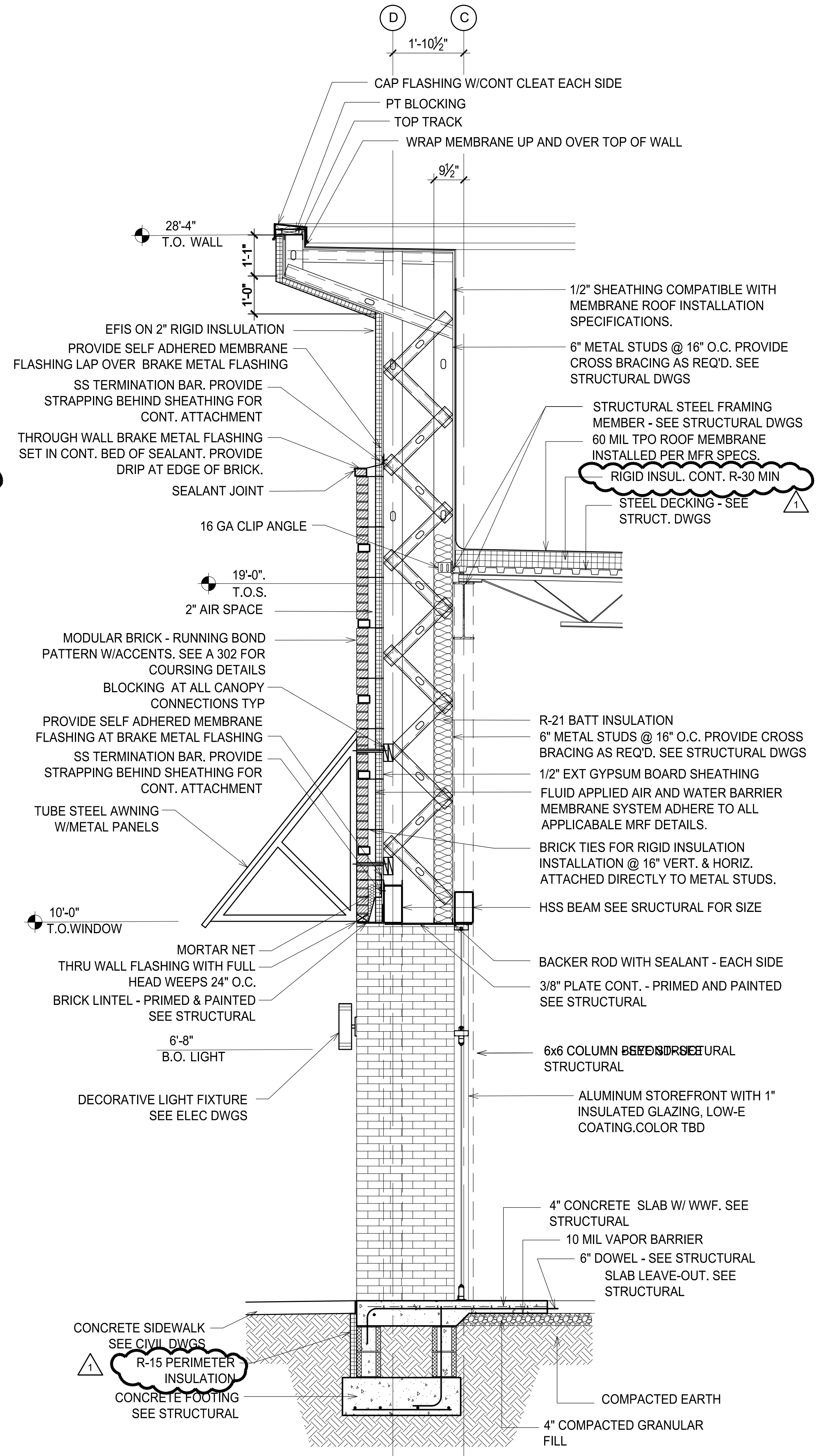
3 DETAIL
3\"/>



4 DETAIL
3\"/>



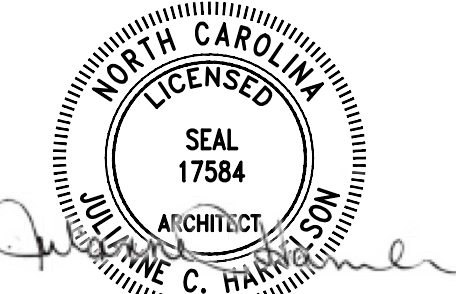
2 FLOOR PLAN
1/2\"/>



1 FLOOR PLAN
1/2\"/>

REVISIONS	
1	7.2.26 correct, during pricing
2	
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PROJECT # : 26-121
DATE: 5.30.25
DRAWN BY : J.C.H.
CHECKED BY :



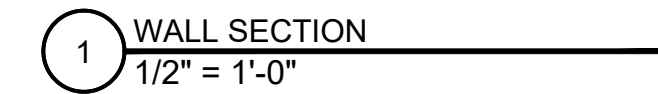
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00011W1 NC 24/07
CAMERON, NORTH CAROLINA

7. 2.26 correct, during pricing
2
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PROJECT #: 26-121
DATE: 5.30.25
DRAWN BY: J.C.H.
CHECKED BY:

A-403



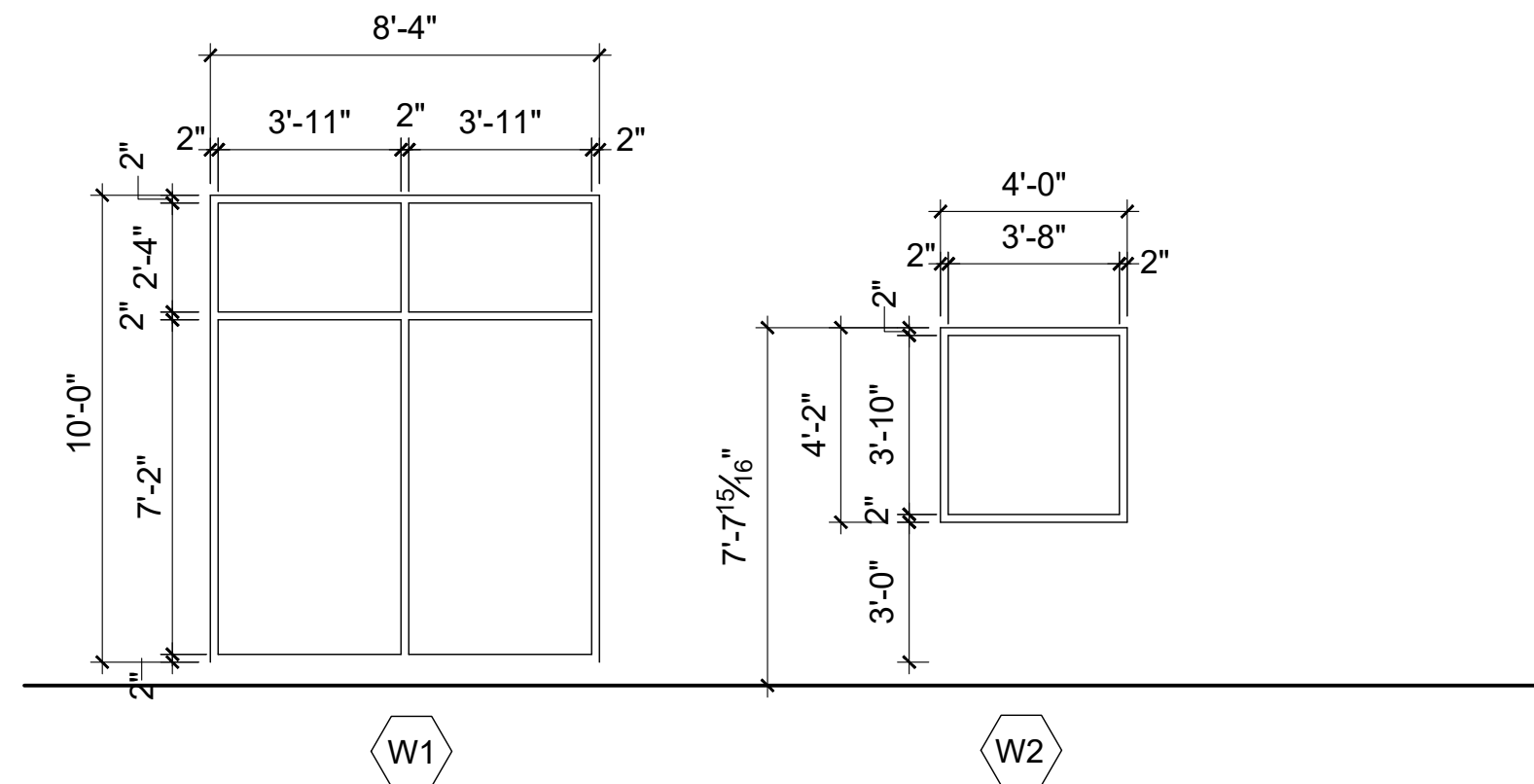
INTERIOR FINISH LEGEND				
MARK	ITEM	PRODUCT/MANUFACTURER	COLOR/FINISH	SIZE
ACT-1	CEILING TILE	ARMSTRONG REVEAL EDGE ACCOUSTICAL CLG TILE	WHITE TILE/WHITE GIRD	24X24
ACT-2	CEILING TILE	ARMSTRONG REVEAL EDGE MOISTURE RESIST ACT	WHITE TILE/WHITE GIRD	24X24
VB-1	VINYL BASE	JOHNSONITE		X
CPT T	CARPET TILE	W/ PATTERN AND 1/4 TURN OPTION	W/ PRIMARY COLOR ACCENTS AVAILABLE	
PT-1	PAINT	SHERWIN WILLIAMS	EGGSHELL	
PT-2	PAINT	SHERWIN WILLIAMS	SEMIGLOSS	
LVP-1	VINYL PLANK			

FINISH SCHEDULE								
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING FINISH	CEILING HEIGHT	FIRE RATING	COMMENTS
101	WAITING	CPT T	VB-1	PT-1	ACT-1	10'-6"	N/A	①
102	KIDS AREA	CPT T	VB-1	PT-1	ACT-1	10'-6"	N/A	①
103	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	①
104	TRIAGE	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	①
105	EXAM 9	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
106	EXAM 8	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
107	EXAM 7	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
108	EXAM 6	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
109	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
110	BREAK RM	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
111	DR. OFFICE	CPT	VB-1	PT-1	ACT-1	9'-0"	N/A	
112	UTILITY	LVP-1	VB-1	PT-2	ACT-2	9'-0"	N/A	
113	EXAM 5	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
114	EXAM 4	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
115	EXAM 3	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
116	EXAM 2	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
117	EXAM 1	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
118	RECEPTION	CPT	VB-1	PT-1	ACT-1	10'-6"	N/A	①
119	OFFICE MGR	CPT	VB-1	PT-1	ACT-1	9'-0"	N/A	
120	BILLING OFFICE	CPT	VB-1	PT-1	ACT-1	9'-0"	N/A	①
121	LAB	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
122	STORAGE	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
123	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
124	NURSES STATION	CPT T	VB-1	PT-1	ACT-1	9'-0"	N/A	
125	CORRIDOR	CPT T	VB-1	PT-1	ACT-1	9'-0"	N/A	①
126	CORRIDOR	CPT T	-	PT-1	ACT-1	9'-0"	N/A	①
200	VANILLA SHELL 1	CONC	VB1	PT-1	ACT-1	10'-6"	N/A	
201	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
300	VANILLA SHELL 2	CONC	-	PT-1	ACT-1	10'-6"	N/A	
301	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
400	COLD DK SHELL 1	-	N/A	N/A	N/A	N/A	N/A	
500	COLD DK SHELL 2	-	N/A	N/A	N/A	N/A	N/A	

FINISH SCHEDULE NOTES:
① PROVIDE ACROVYN SM SERIES CORNER GUARDS OR EQ. 2 PART CORNER GUARDS AT OUTSIDE CORNERS.

WINDOW SCHEDULE								
TYPE	MATERIAL	WIDTH	HEIGHT	② GLASS COLOR	FRAME COLOR	HEAD	SILL	JAMB
W1	ALUMINUM	8'-4"	10'-0"	GRAY	①	—	—	—
W2	ALUMINUM	4'-0"	4'-2"	GRAY	①	—	—	—

NOTES:
① CLEAR ANODIZED ALUMINUM
② 1" INSULATED LOW-E GLASS



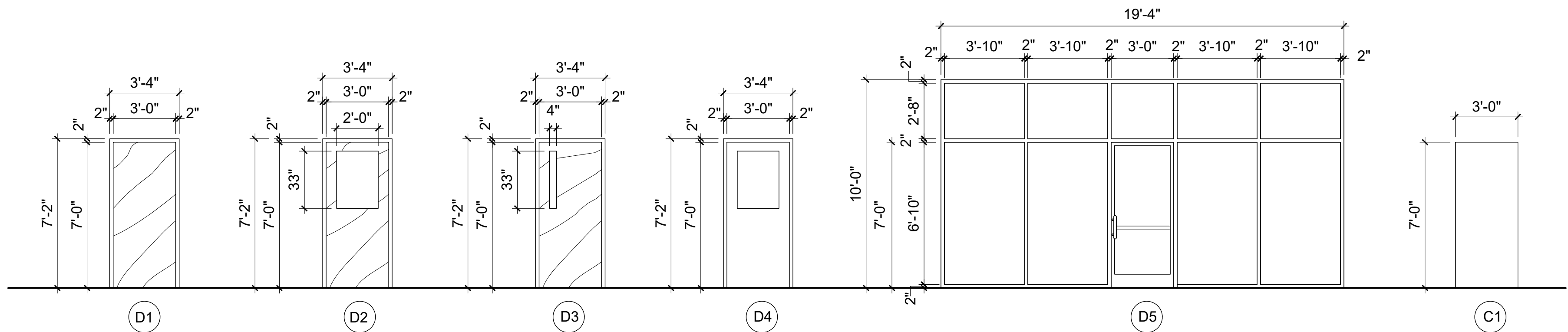
DOOR SCHEDULE										
DOOR NUMBER	LOCATION	DOOR ②					HDW SET	FRAME		COMMENTS
		TYPE	WIDTH	HEIGHT	MATERIAL	RATING		MATERIAL	FINISH	
101	WAITING	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
102	KIDS AREA									
103	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
104	TRIAGE	C1	3'-0"	7'-0"						CASED OPENING
105	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
106	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
107	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
108	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
109	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
110	BREAK	D2	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
111	OFFICE	D1	3'-0"	7'-0"	WOOD	NA	4	HM	PT-2	
112	UTILITY	D1	3'-0"	7'-0"	WOOD	NA	5	HM	PT-2	
113	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
114	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
115	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
116	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
117	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
118	NOT USED									
119	OFFICE	D2	3'-0"	7'-0"	WOOD	NA	4	HM	PT-2	
120	OFFICE	D2	3'-0"	7'-0"	WOOD	NA	4	HM	PT-2	
121	LAB	C1	3'-0"	7'-0"						CASED OPENING
122	STORAGE	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
123	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
124	NOT USED									
125	CORRIDOR	D3	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
126A	CORRIDOR	D3	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
126B	CORRIDOR	D4	3'-0"	7'-0"	HM	NA	1	HM	PT-2	
200A	VANILLA SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
200B	VANILLA SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	
201	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
300A	VANILLA SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
300B	VANILLA SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	
301	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
400A	COLD SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
400B	COLD SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	
500A	COLD SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
500B	COLD SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	

DOOR NOTES:
① STOREFRONT TO BE CLEAR ANODIZED ALUMINUM IN COLOR
② ALL WOOD DOORS TO BE PRE-FINISHED SOLID CORE WOOD DOORS

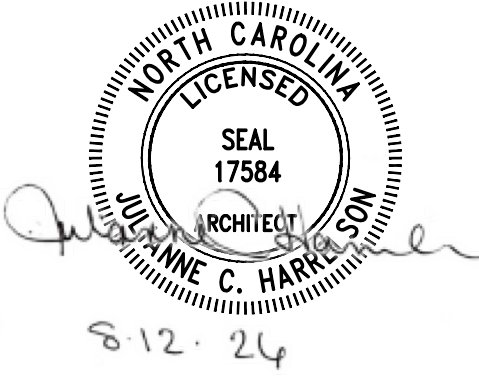
HARDWARE SETS						
SET 1 ①	SET 2	SET 3	SET 4	SET 5	SET 6	SET 7
THUMB LATCH	1 1/2 PR BUTTS	1 1/2 PR BUTTS	1 1/2 PR BUTTS	1 1/2 PR BUTTS	1 1/2 PR BUTTS	
CYLINDER	PRIVACY SET	PASSAGE SET	LOCKSET	STORE RM SET	LOCKSET	
PANIC BAR	WALL STOP	WALL STOP	WALL STOP	WALL STOP	THRESHOLD	
FLUSHBOLT ②	CLOSER	SILENCERS	SILENCERS	SILENCERS	WEATHERSTRIP	
	CLOSER				CLOSER	
THRESHOLD						
SWEEP						
WEATHERSTRIP						

GENERAL NOTES:
1. ALL CLOSER AND LOCK SETS TO MEET ACCESSIBILITY REQUIREMENTS.
2. OPERABLE PARTS OF HARDWARE SHALL BE 34" MIN TO 48" MAX ABOVE THE FLOOR.

HARDWARE NOTES:
① BY STOREFRONT MFR
② WITH CONCEALED VERTICAL RODS AND DOGGING DEVICE



676 OLD HWY 41
BLADENBORO, NORTH CAROLINA 28320
PHONE: (910) 876-3699
jcharchitect25@gmail.com



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ESENSOY MEDICAL CENTER

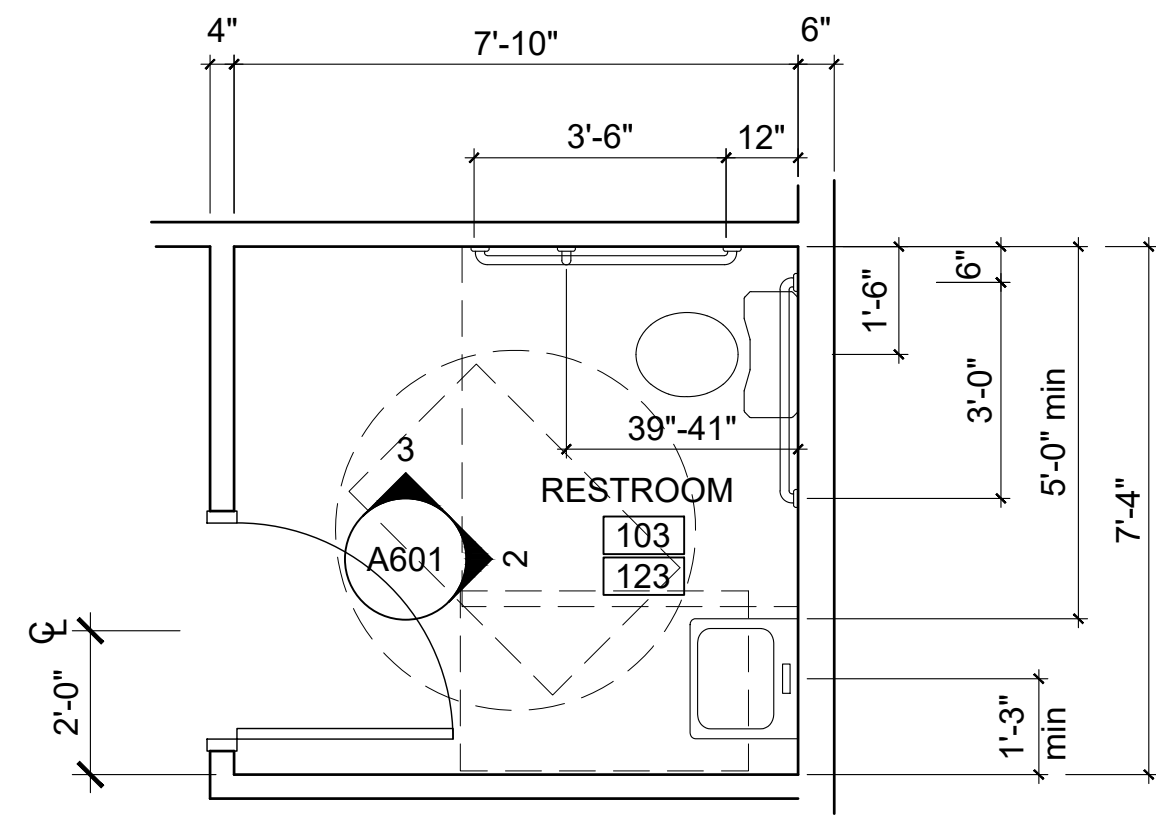
800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS	
1	7.2.26 correct. during pricing
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PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

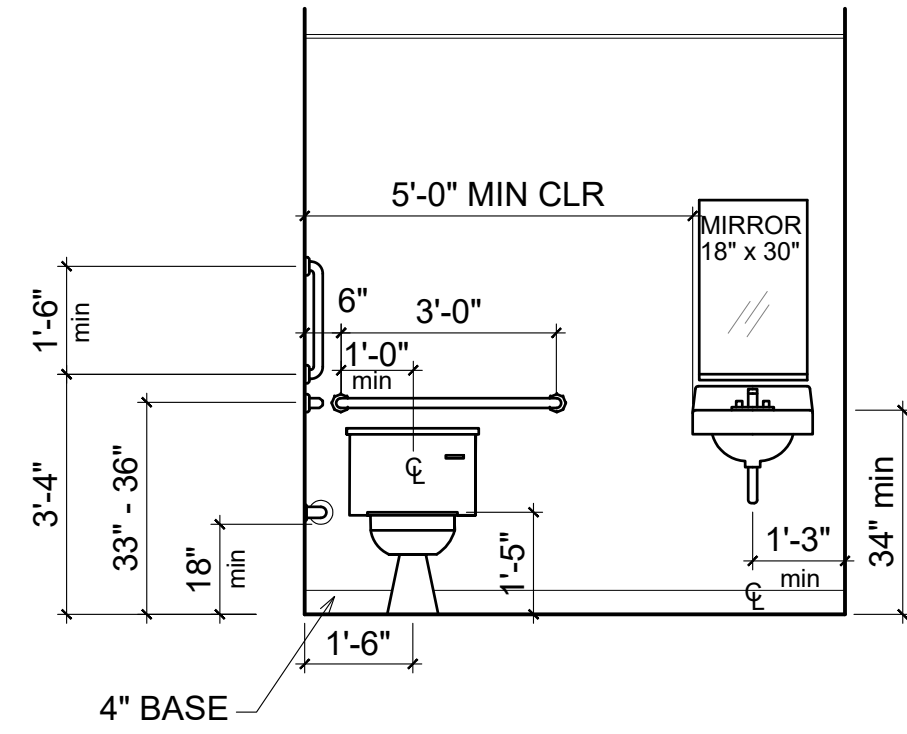
SCHEDULES

A-501



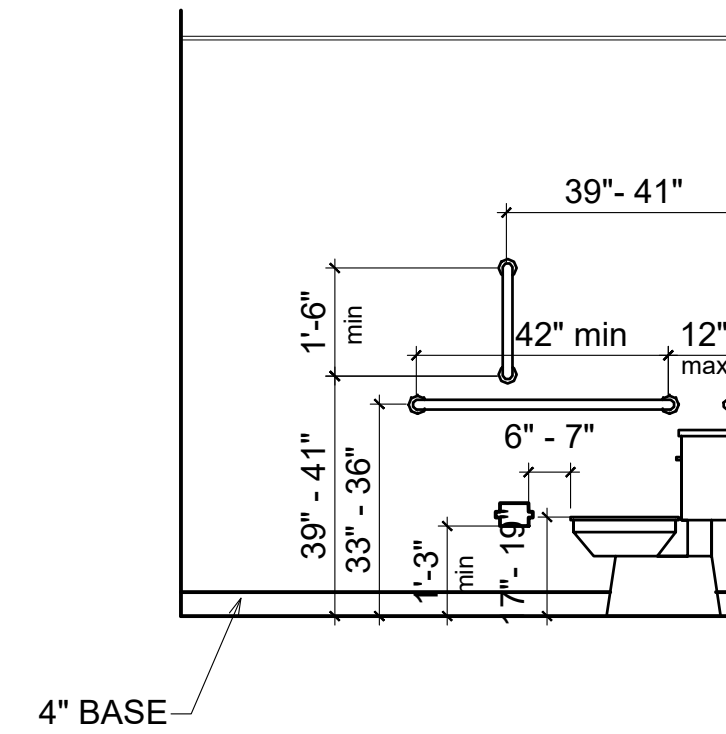
NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

1 ENLARGED PLAN
3/8" = 1'-0"



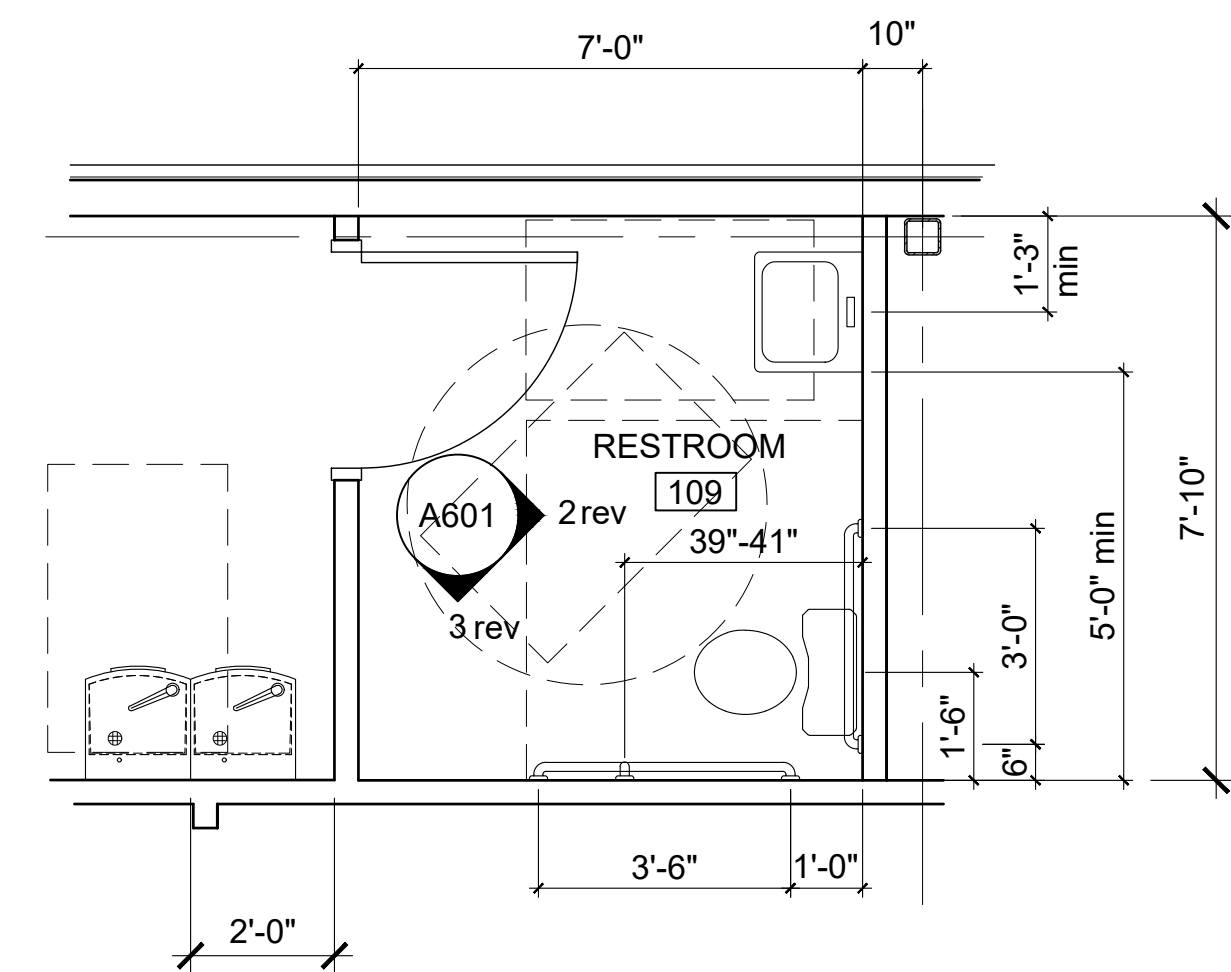
NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

2 ELEVATION
3/8" = 1'-0"



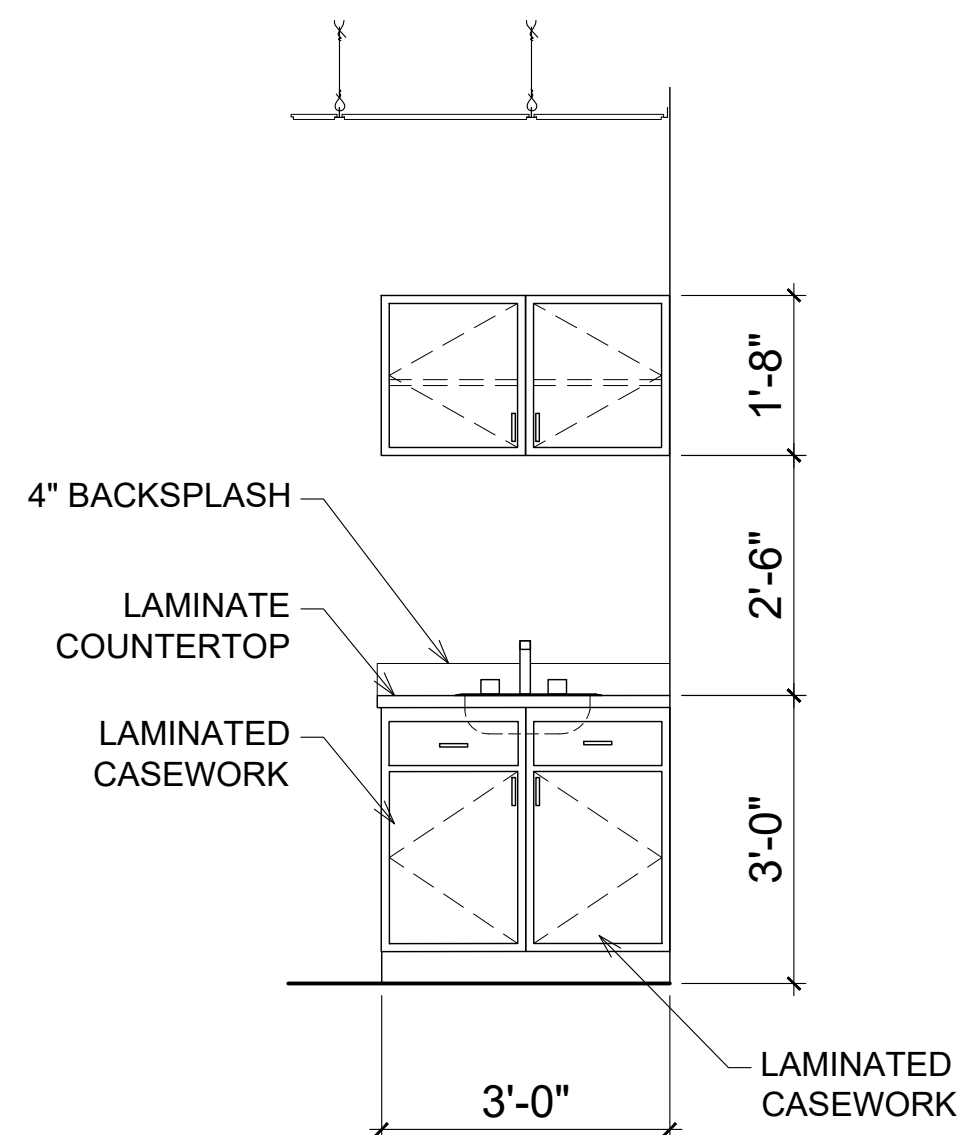
NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

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

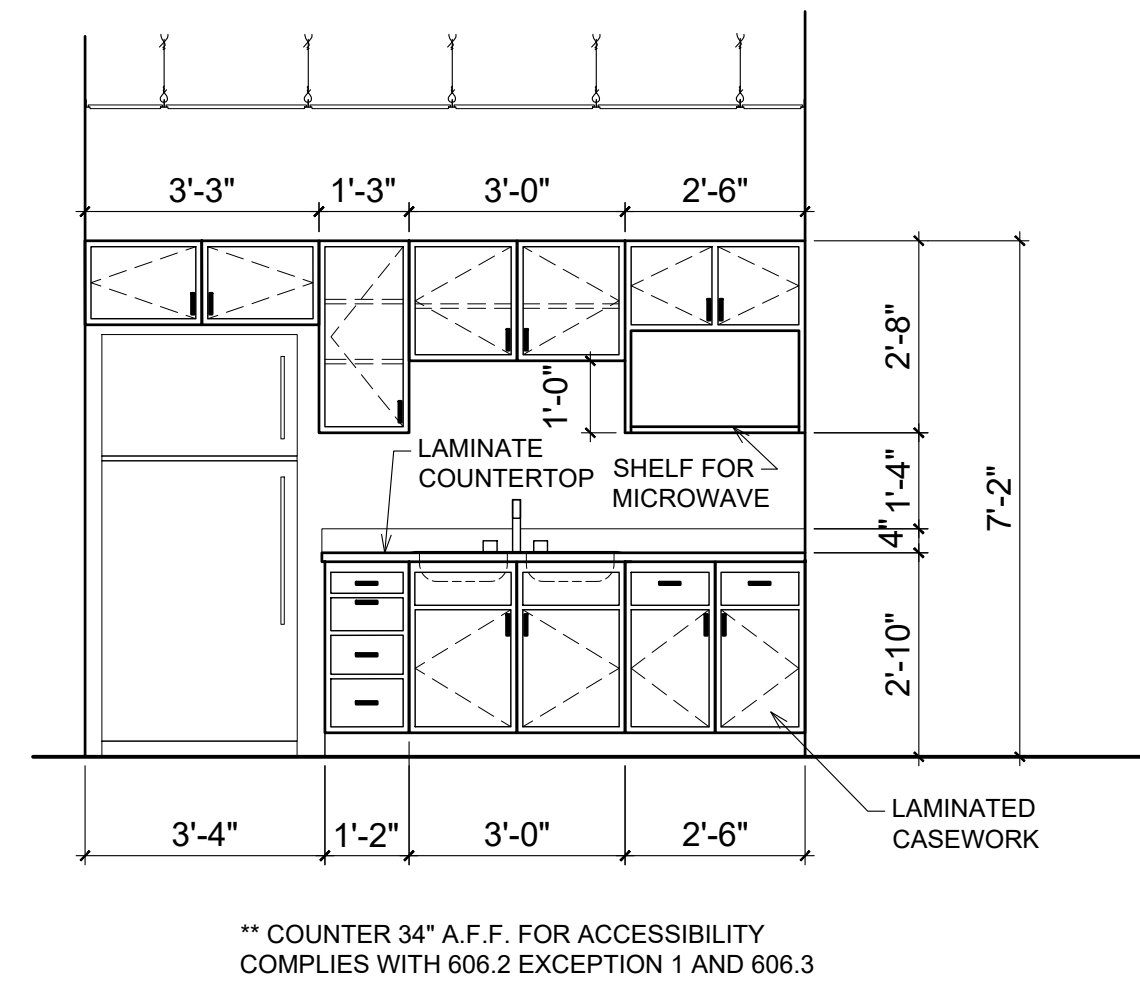


NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

4 ENLARGED PLAN
3/8" = 1'-0"

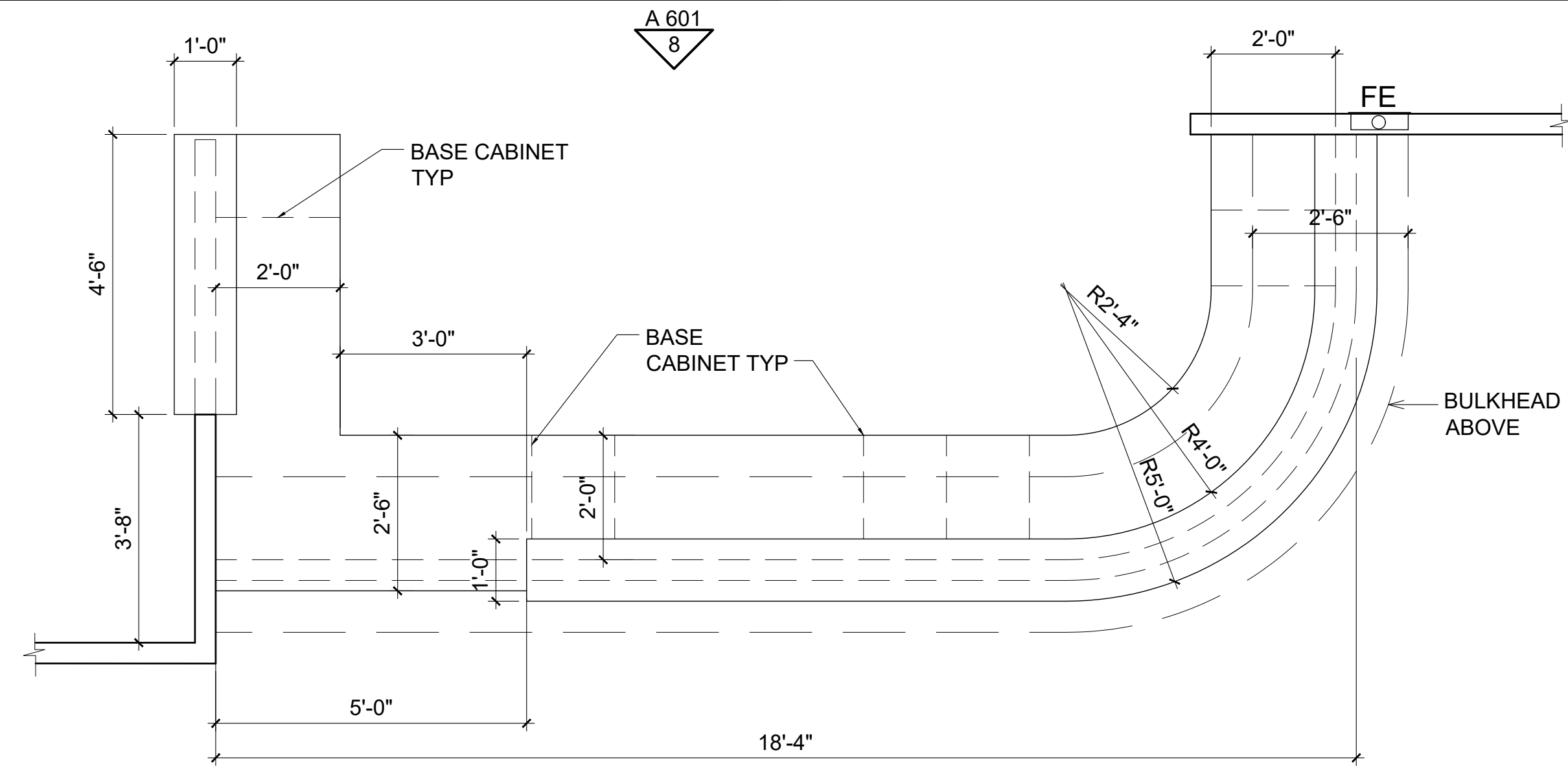


5 ELEVATION
1/2" = 1'-0"

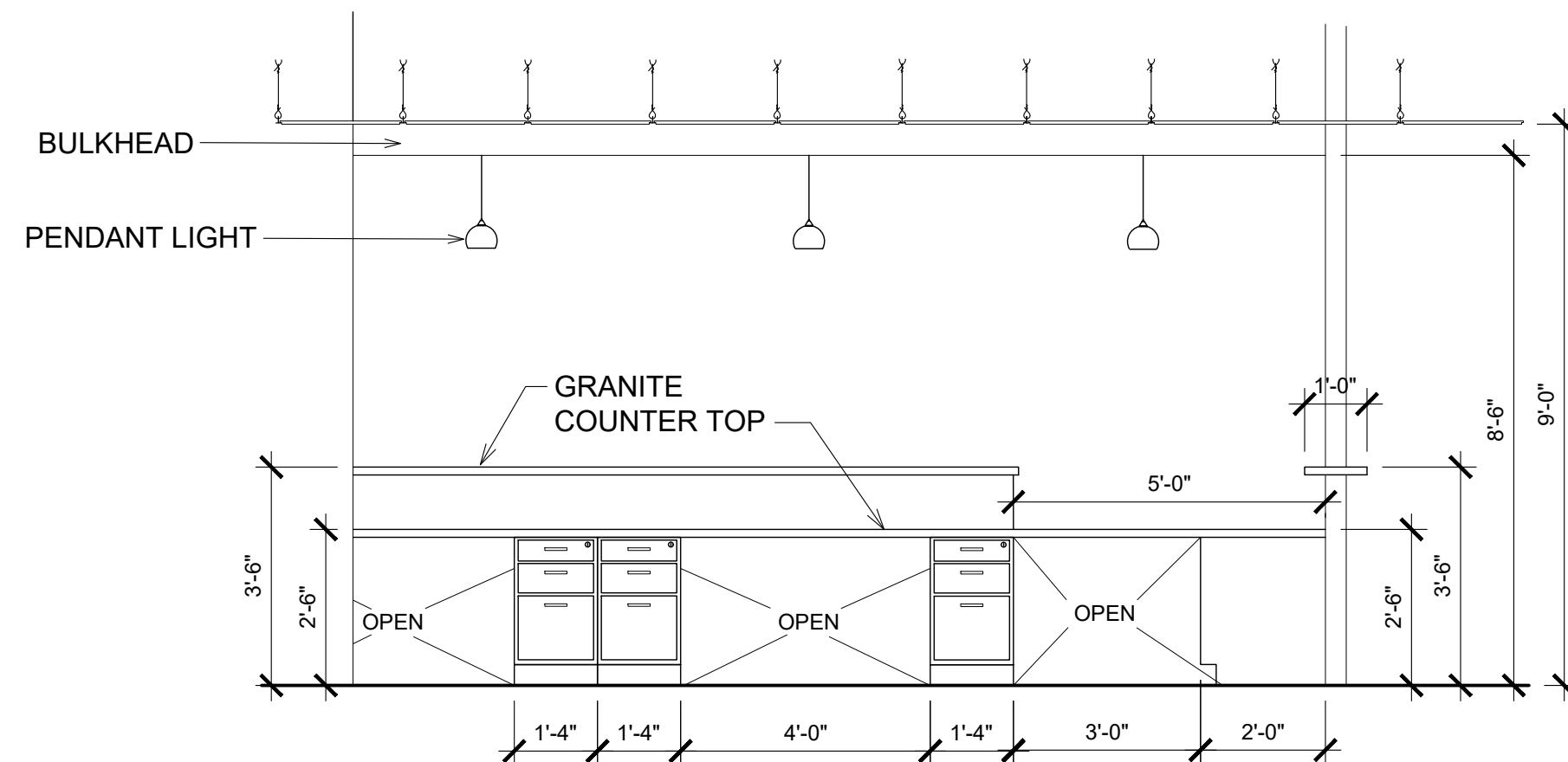


** COUNTER 34" A.F.F. FOR ACCESSIBILITY
COMPLIES WITH 606.2 EXCEPTION 1 AND 606.3

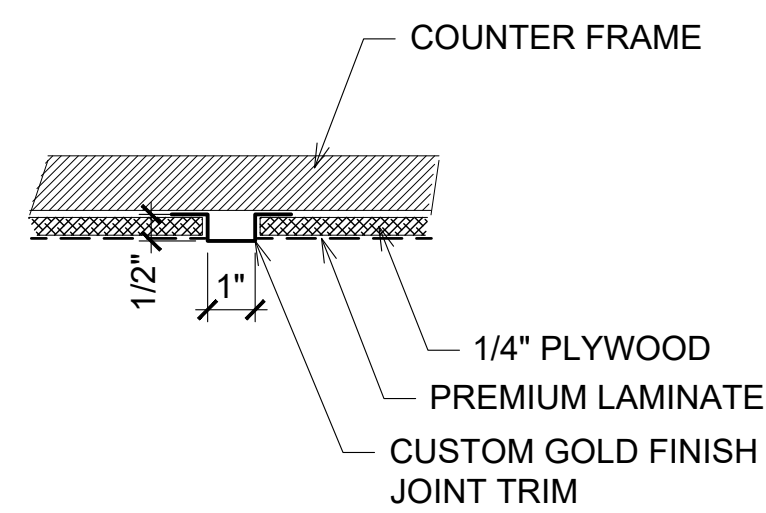
6 ENLARGED PLAN
1/2" = 1'-0"



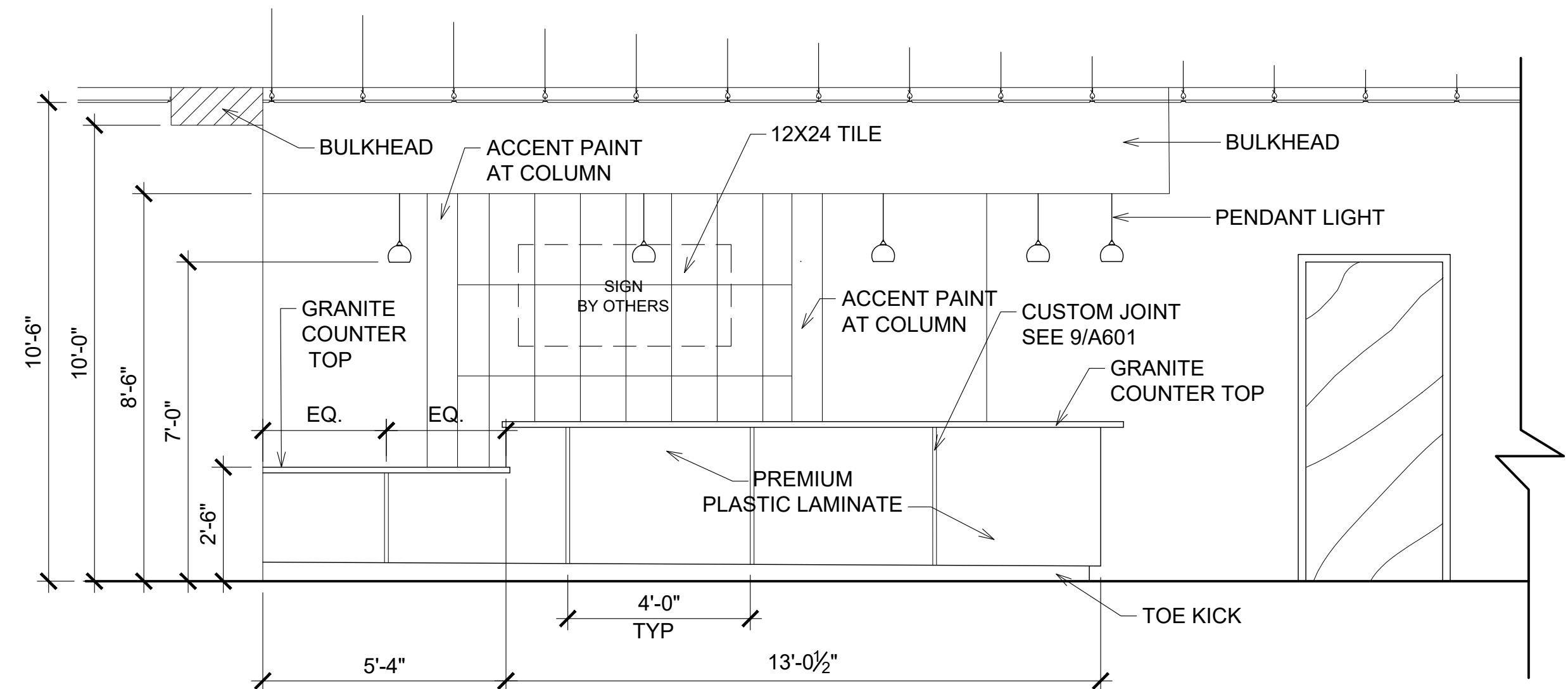
7 ENLARGED PLAN
1/2" = 1'-0"



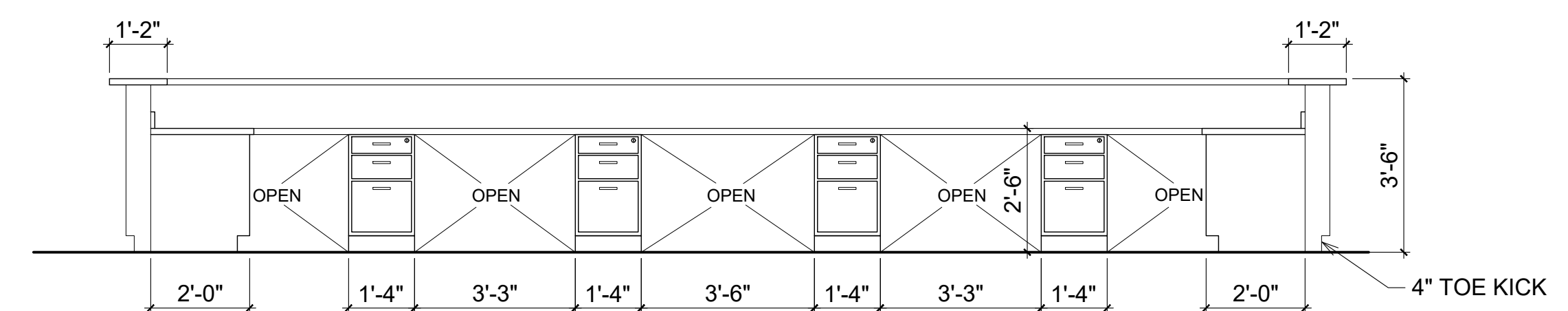
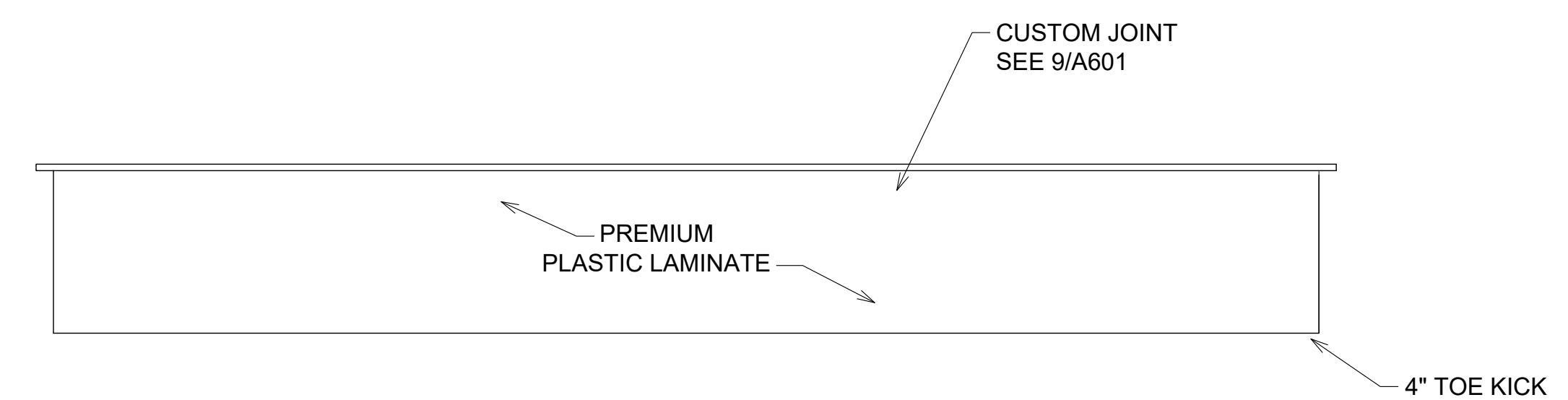
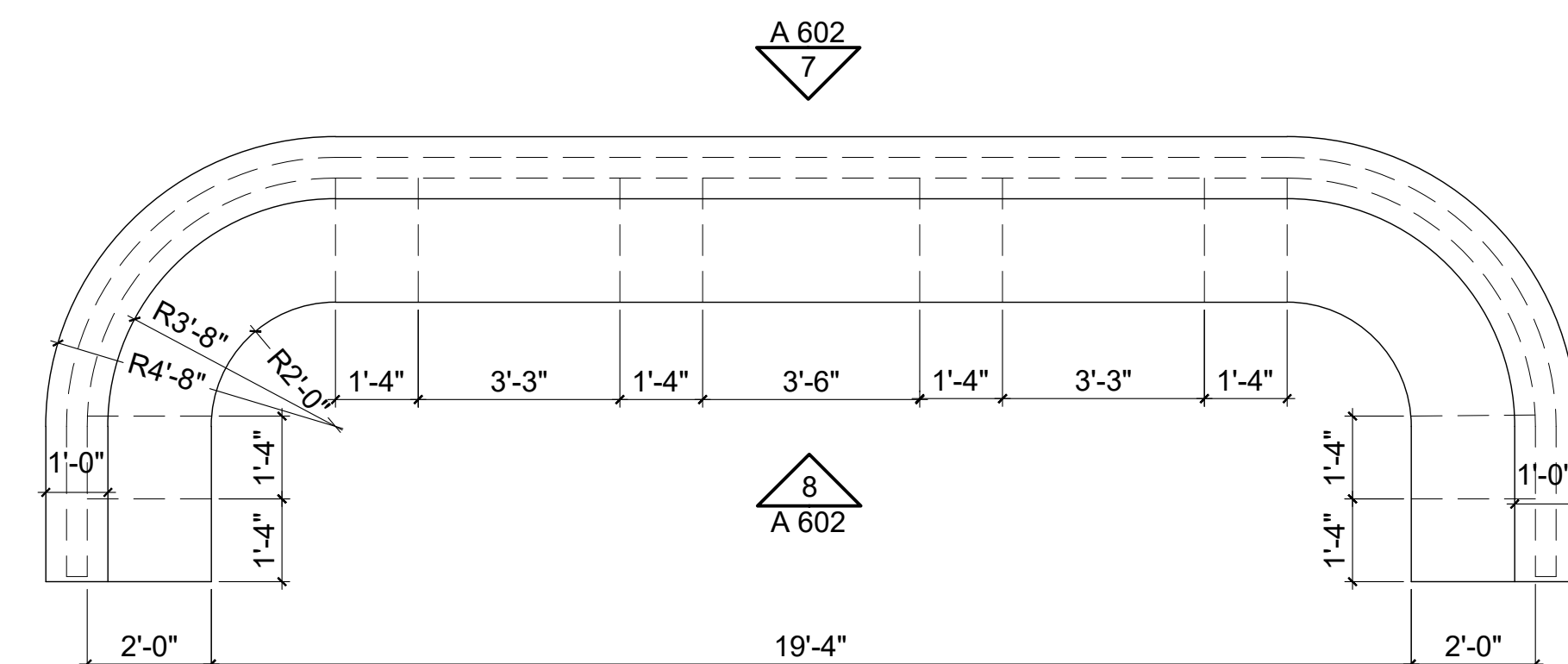
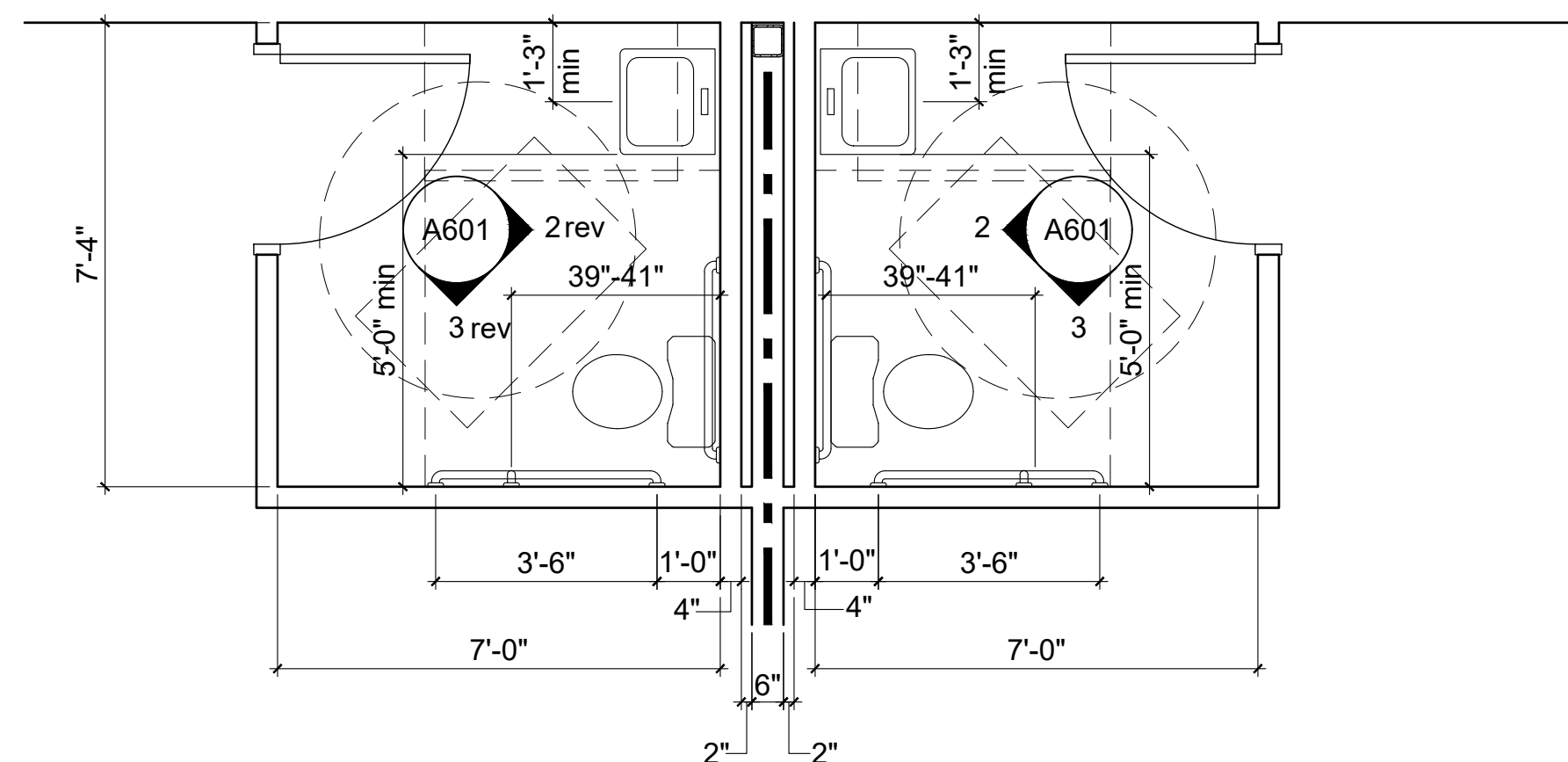
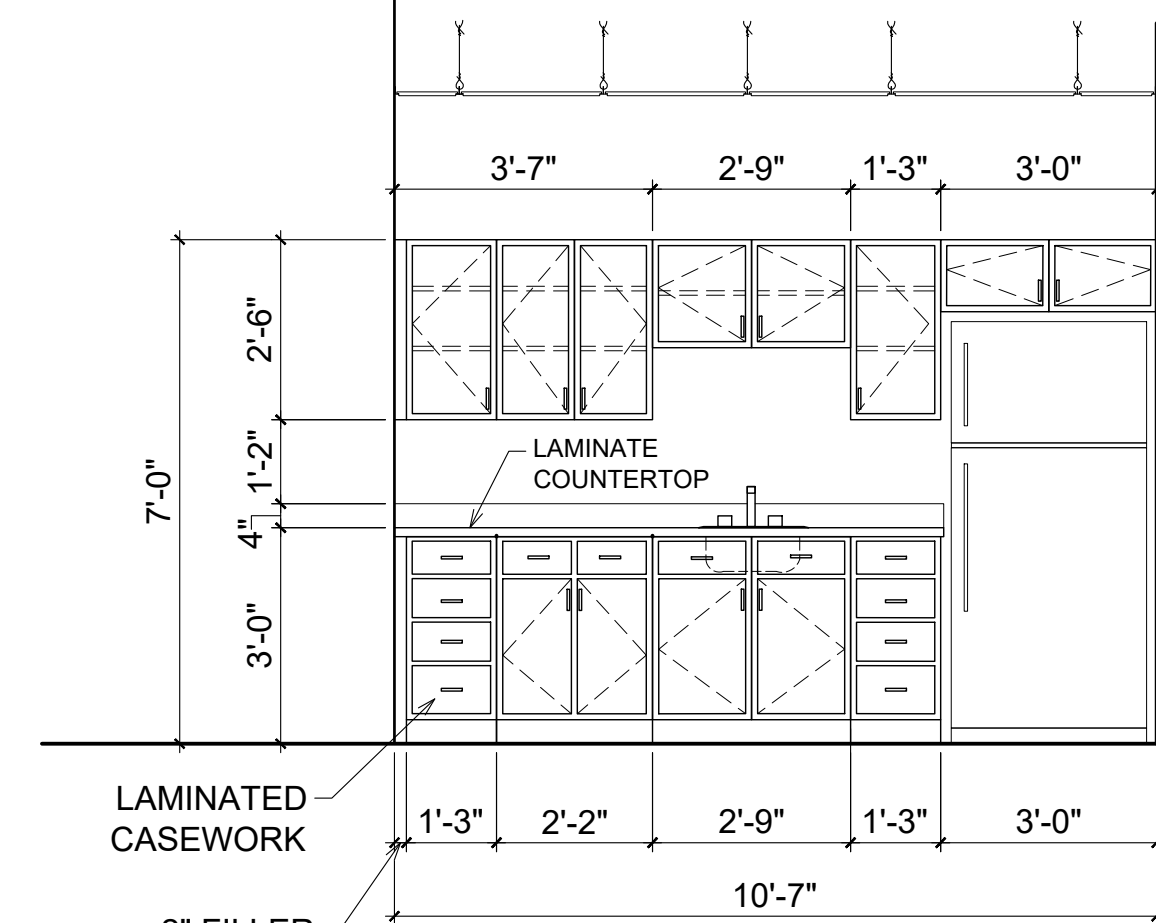
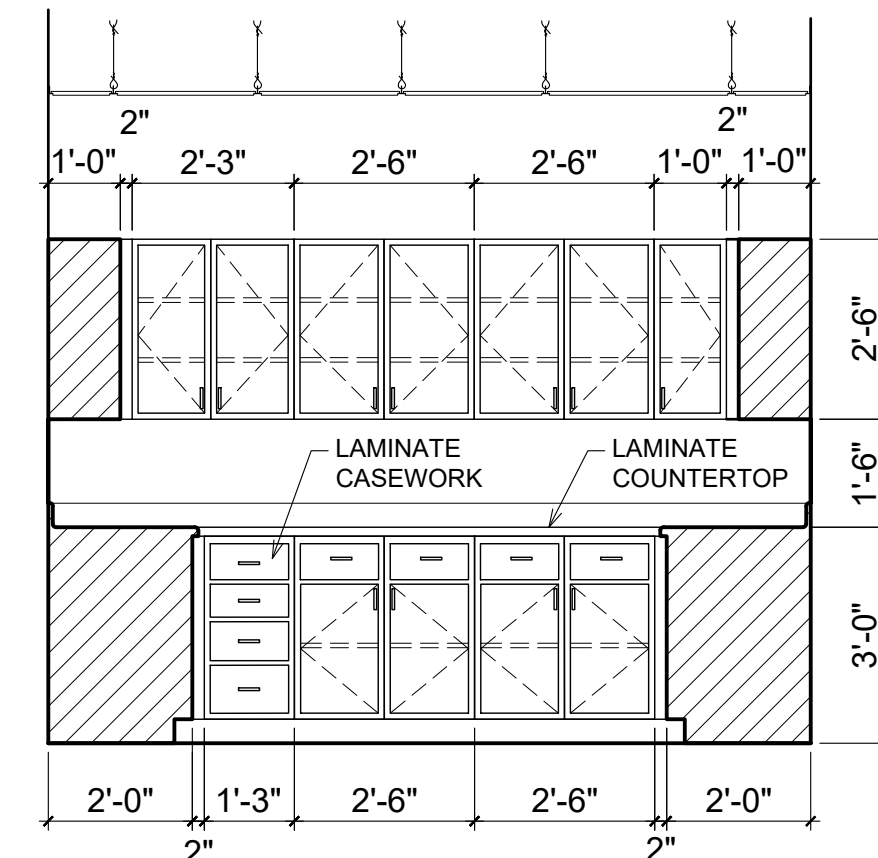
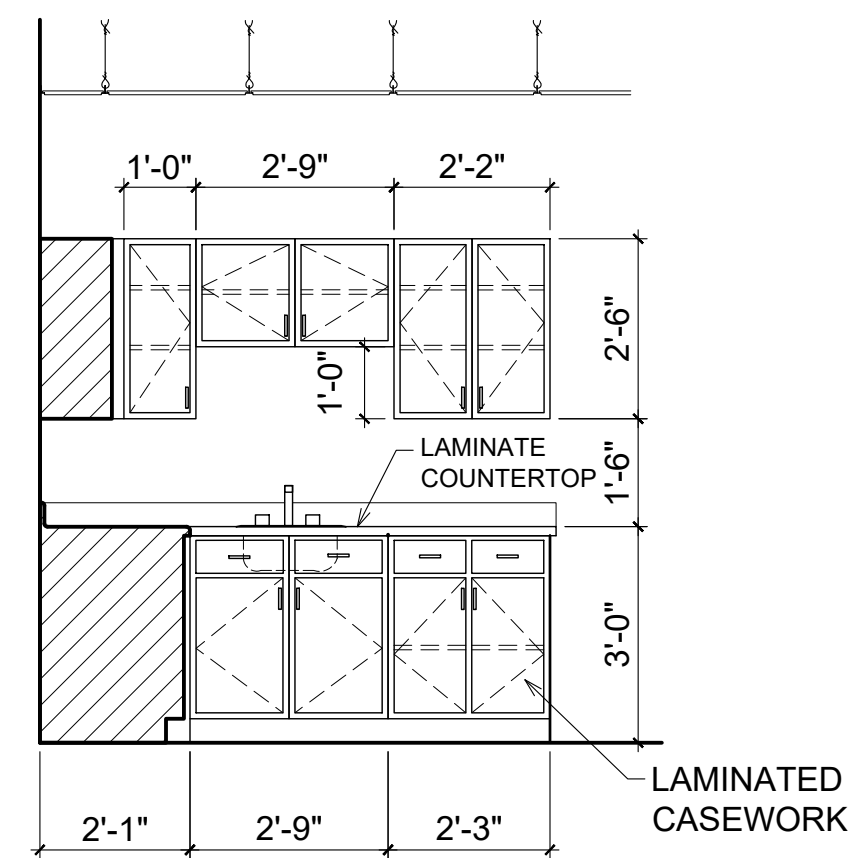
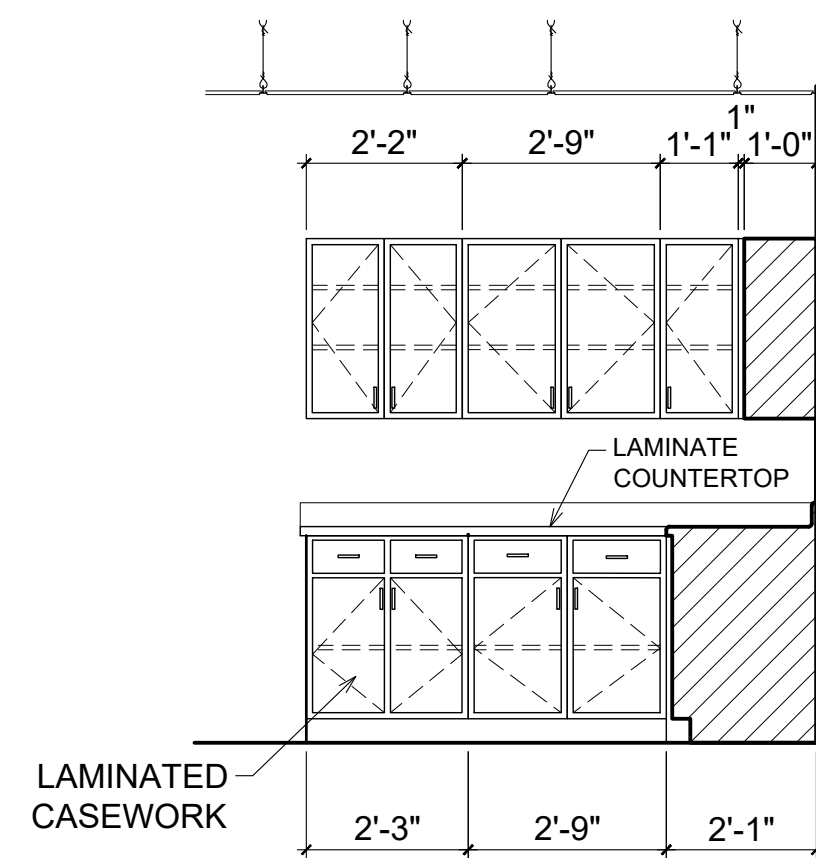
8 ELEVATION
1/2" = 1'-0"



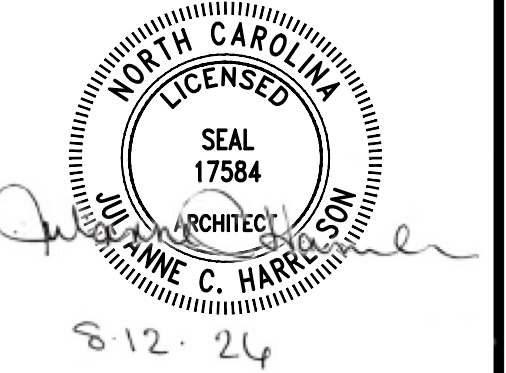
9 DETAIL
3" = 1'-0"



10 ELEVATION
3/8" = 1'-0"



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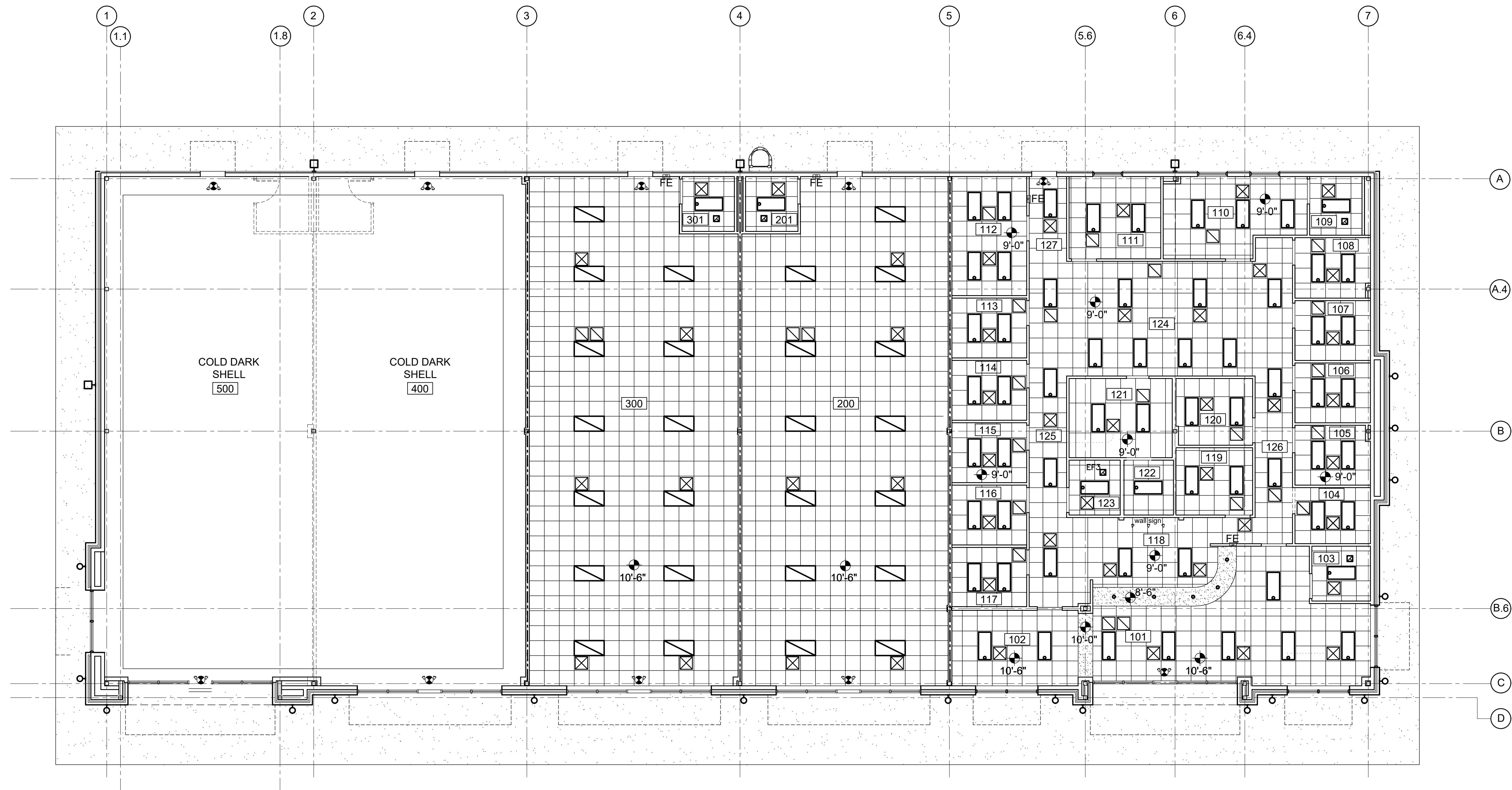
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PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

ENLARGED PLANS & ELEVATIONS

A-602



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

REFLECTED CEILING LEGEND

- GYPSUM WALL BOARD CEILING
- 2x2 REVEALED EDGE ACT
- 2'x4' LED LIGHT FIXTURE
- EXISTING 2'x4' LIGHT FIXTURE
- EXISTING REUSED 2'x4' LIGHT FIXTURE
- 1'x4' LED LIGHT FIXTURE
- 8' INDUSTRIAL LED - CHAIN HUNG
- RECESSED LED FIXTURE
- EXISTING RECESSED CAN LIGHT
- EXISTING REUSED CAN LIGHT
- KEYLESS LIGHT FIXTURE
- DECORATIVE PENDANT FIXTURE
- DIRECTIONAL LIGHT FIXTURE
- WALL MOUNTED SCONCE
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST GRILLE
- EMERGENCY LIGHTS
- EXIT LIGHT
- EXIT LIGHT/EMERGENCY LIGHT

jch
JULIANNE C. HARRELSON
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8-12-24

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REVISIONS

1					
2					
3					
4					
5					
6					

PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

REFLECTED
CEILING PLAN

A-701

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE INSPECTED PRIOR TO PLACING IN SERVICE. PVC/PEX MAYBE SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI. GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

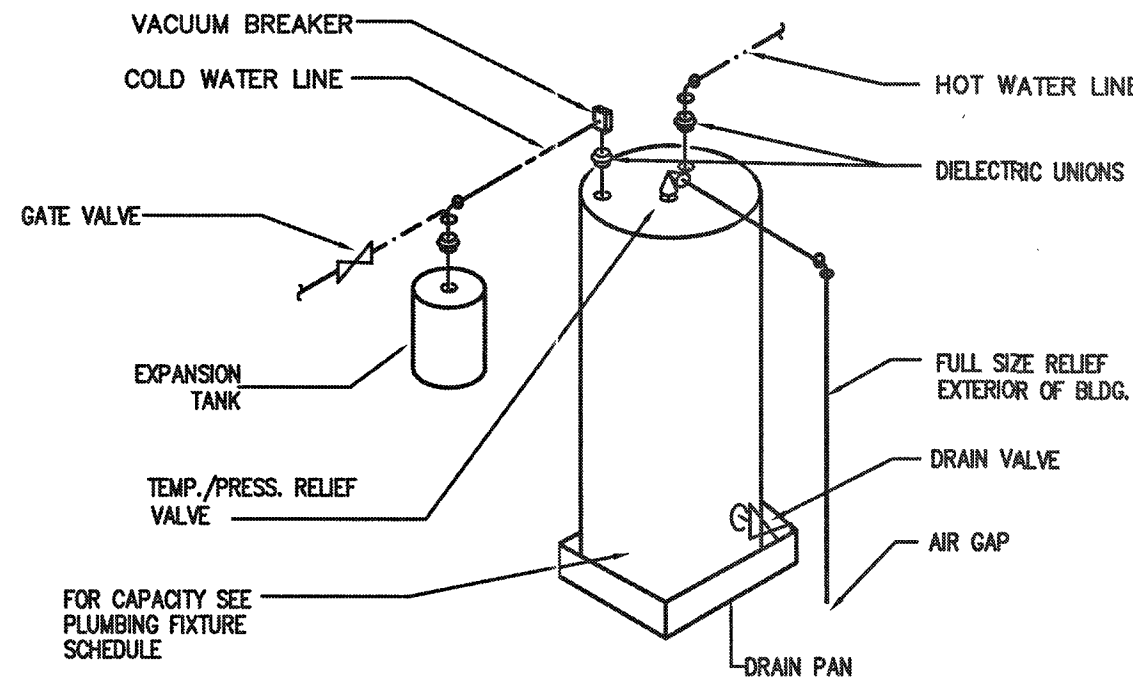
THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

LOCATION OF UTILITIES (WASTE AND WATER LINES, MAINHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS

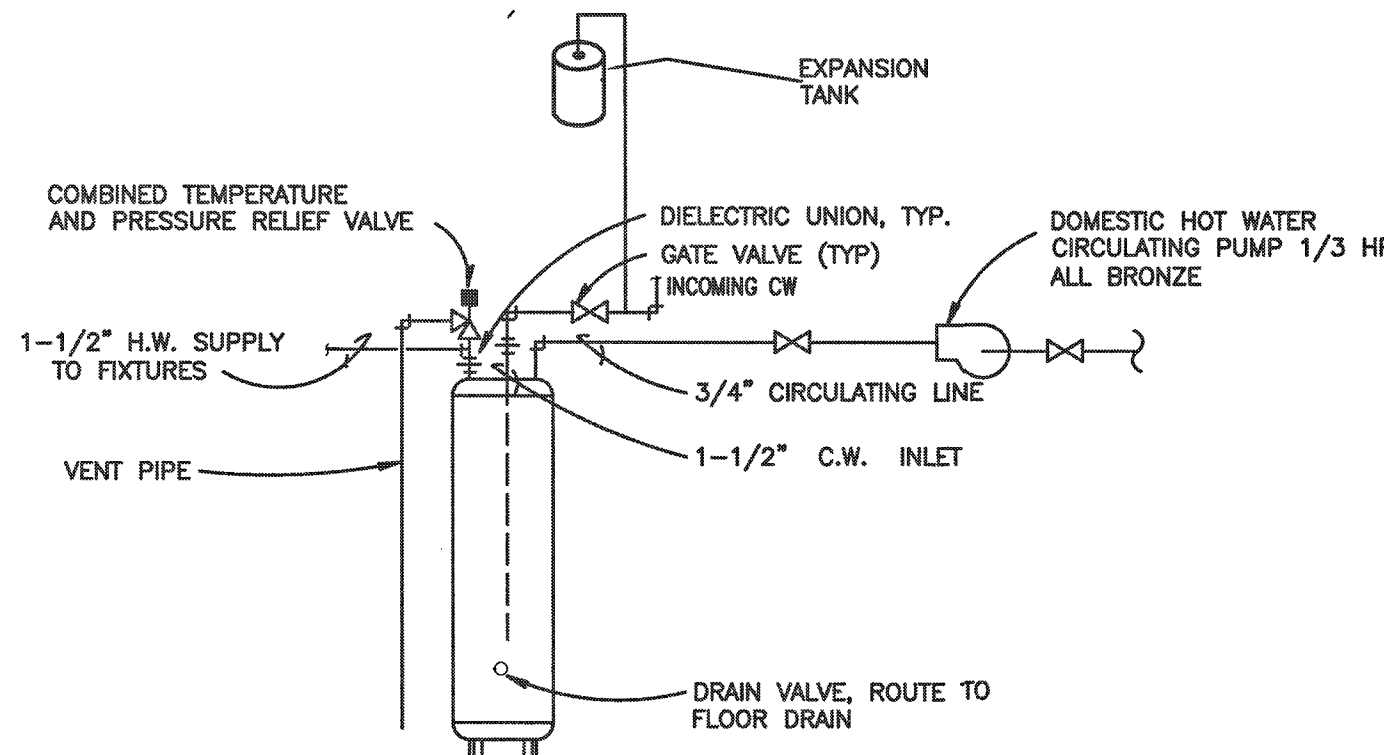
1 PLUMBING NOTES

P1 N.T.S.



2 WATER HEATER DETAIL (HWH-2,3)

P1 N.T.S.

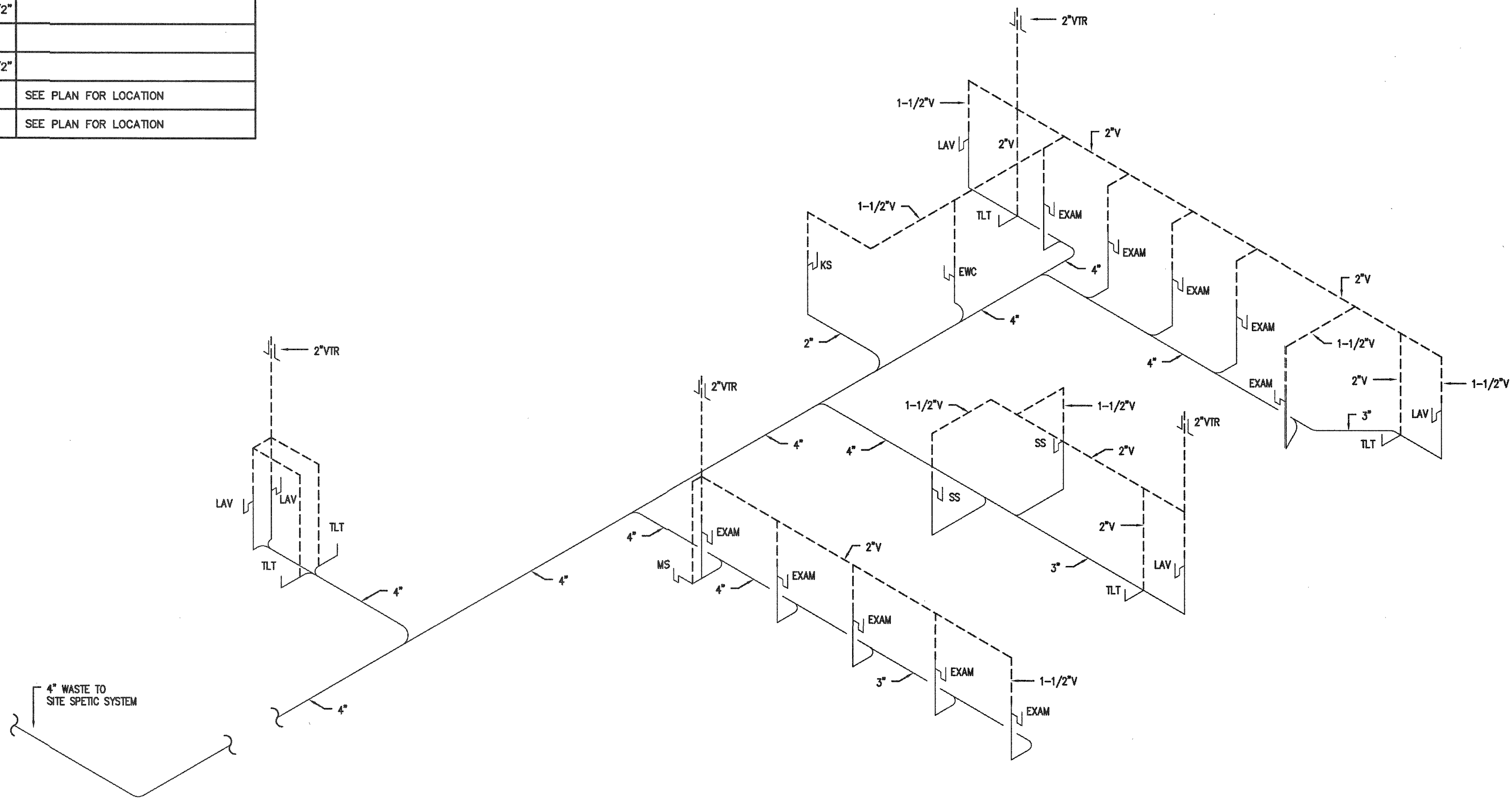


3 WATER HEATER DETAIL (HWH-1)

P1 N.T.S.

GENERAL PLUMBING SYMBOLS	
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	TEE
	ELBOW
	WALL CLEANOUT
	FLOOR CLEANOUT
	GATE VALVE
	COLD WATER
	HOT WATER
	VENT PIPING
	WASTE PIPING
	ROOF DRAIN PIPING

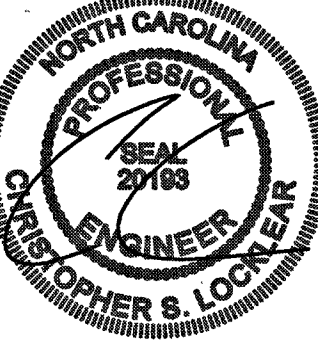
SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1	AMERICAN STD.	270AA.001	CADET 3 RIGHT HEIGHT ELONGATED TOILET VITREOUS CHINA, 1.6 GPF - ADA	CHURCH 295C ELONGATED SEAT OPEN FRONT LESS COVER	3/4" C.W.	3"	2"	
P-2	AMERICAN STD.	0321.026	LAVATORY, WALL-TYPE	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-3	SWAN	MS2424	SERVICE SINK, FLOOR-TYPE	SWAN MS-5811, SWAN MS-2437 MOP SINK FAUCET, MOP HANGER	1/2" H.W./C.W.	3"	1-1/2"	
P-4	ELKAY	LRAD1316553CU	13" X 16" X 5-1/2" STAINLESS STEEL SINGLE BOWL DROP-IN ADA SINK	LK2477CR FAUCET	1/2" H.W./C.W.	2"	1-1/2"	VERIFY COUNTER TYPE, SINK MAY NEED TO BE DIFFERENT TYPE
P-5	ELKAY	LR3322	KITCHEN SINK	DELTA MODEL 400 FAUCET, W/SPRAYER	1/2" H.W./C.W.	2"	1-1/2"	
P-6	OATEY		ICE MAKER SERVICE BOX		1/2" C.W.			
EW-1	ELKAY	EZSTLR8C	ELECTRIC WATER COOLER (TWO STATION)	-	1/2" C.W.	2"	1-1/2"	
HWH-1,2	STATE	ES8-10-SOMS-K	10 GALLON, ELECTRIC, 1650W, 120V	3/4" T & P RELIEF VALVE	1/2" H.W./C.W.	-	-	SEE PLAN FOR LOCATION
HWH-3	STATE	PCE-82-20RTA	80 GALLON, ELECTRIC, 6000W, 208V	3/4" T & P RELIEF VALVE	1/2" H.W./C.W.	-	-	SEE PLAN FOR LOCATION



4 WATER HEATER DETAIL (HWH-1)

P1 N.T.S.

May 28, 2026



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DRAWN BY: CSJ/MLL

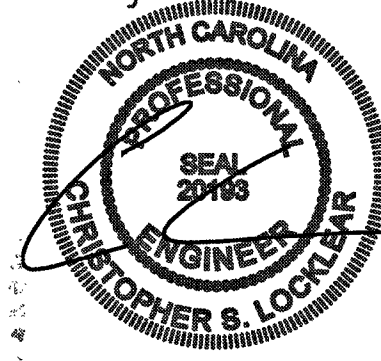
DATE: 03-24-26

REVISIONS:

SHEET NO:

P1

May 28, 2026



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License No. C-3900

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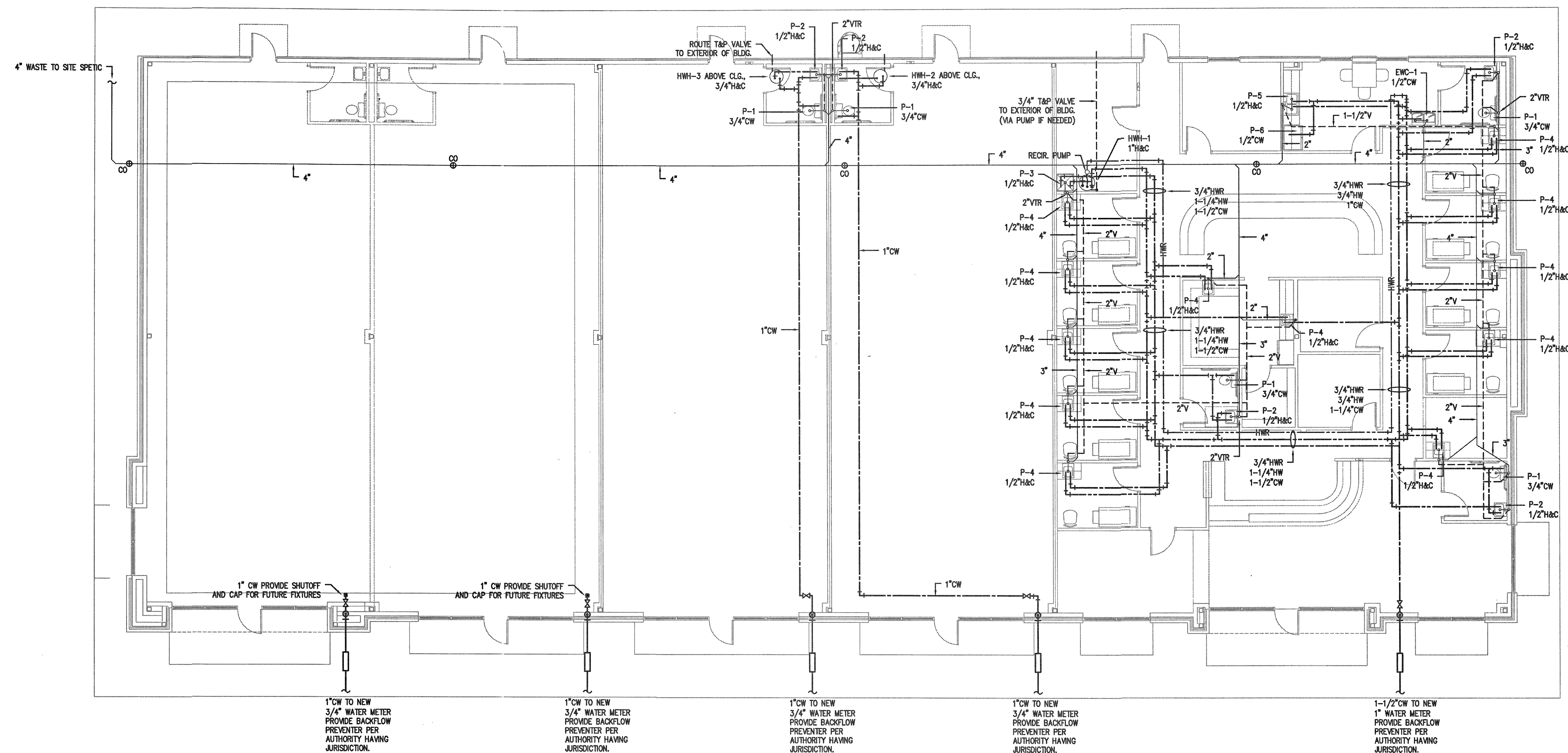
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DRAWN BY: CSJ/MLL
DATE: 03-24-26
REVISIONS:

SHEET NO:

P2



1 PLUMBING PLAN
P2 1/8"=1'-0"

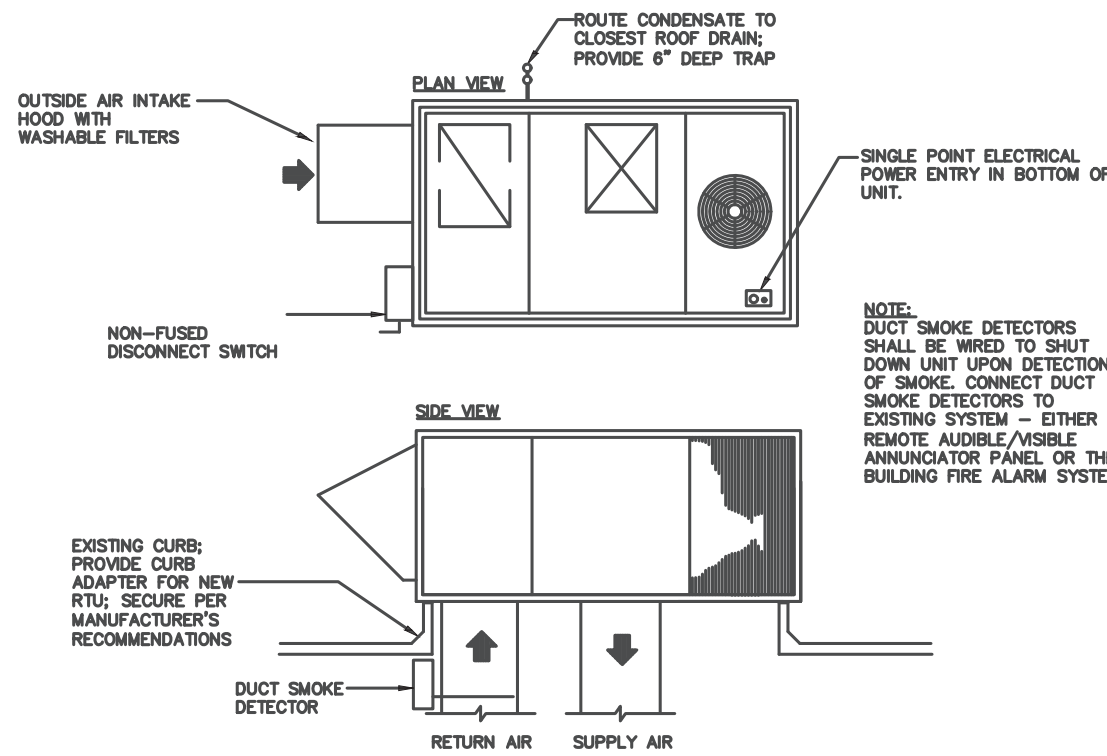
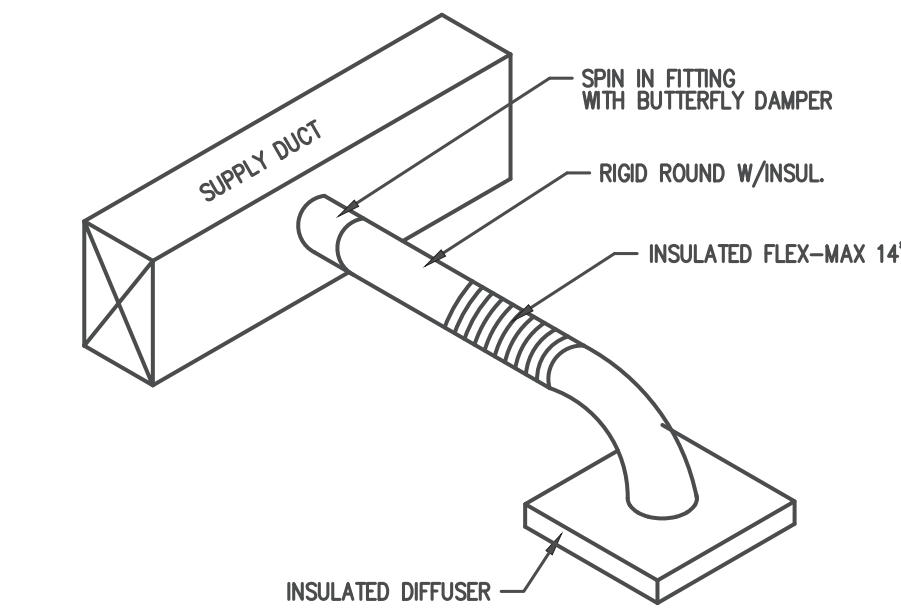
MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR CEILING MOUNTED S/A DIFFUSER
	RECTANGULAR CEILING MOUNTED R/A OR EXHAUST GRILLE
	RUNOUT TO DIFFUSER W/VOLUME DAMPER AND CONE EXTRACTOR
	90 DEG. ELBOW W/ TURNING VANES
-----C-----	CONDENSATE DRAIN PIPING
-----R-----	REFRIGERANT PIPING
	HEATING AND COOLING THERMOSTAT. MOUNT 5'-0" A.F.F. AUTOMATIC CHANGEOVER.
	SYSTEM EMERGENCY SHUT-OFF SWITCH (RED LABELED)
	DUCT SMOKE DETECTOR - FURNISHED BY M.C., INSTALLED BY M.C., WIRED BY M.C.
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
S/D	SPLITTER DAMPER
M.D.	MANUAL DAMPER WITH LOCKING QUADRANTS
B.D.D.	BACKDRAFT DAMPER
A.F.F.	ABOVE FINISHED FLOOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
	CEILING FIRE/RADIATION DAMPER
	VERTICAL FIRE DAMPER
	DUCT SMOKE DETECTOR

1

M1

HVAC NOTES

N.T.S.



2

M1

ROOF TOP UNIT DETAIL

N.T.S.

LAY-IN DIFFUSER/RETURN SCHEDULE					
MARK ON PLANS	CFM	AIR PATTERN	NECK SIZE	RUNOUT SIZE	REMARKS
	50-125	4 WAY	6 X 6	6"	PRICE SERIES ASCD OFF WHITE, ALUM.,
	150-275	4 WAY	8 X 8	8"	PRICE SERIES ASCD OFF WHITE, ALUM.,
	300-400	4 WAY	10 X 10	10"	PRICE SERIES ASCD OFF WHITE, ALUM.,
		N/A	12 X 12	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN
		N/A	20 X 20	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN

FAN SCHEDULE									
MARK	LOCATION	SERVICE	CFM	S.P.	AMPS	RPM	VOLT	PHASE	DRIVE
EF1-4	CEILING	TOILETS	70	0.125"	0.14	790	120	1	DIRECT
			GREENHECK SP-A70 OR EQ.						

ROOFTOP UNIT SCHEDULE																		
													CAPACITIES			REMARKS	REFRIG.	UNIT NET WEIGHT
UNIT NO.	TOTAL CFM	O.A. CFM	EXT. S.P.	EVAP. FLA	COMPRESSOR AMPS	NO. OF COMPR.	FAN AMPS	NO. OF FANS	UNIT MCA	UNIT MOCP	UNIT VOLT	UNIT PHASE	GROSS COOLING	SEER2/ HSPF2	HEATING INPUT			
RTU-1	1000	111	0.6"	4.3	14.6	1	0.54	1	-	-	208	1	29,600	15.2/ 7.2	28,800	TRANE 5WCZ5030 2.5 TON PACKAGED UNIT 2-STAGE ELEC. HEAT/COOLING 6KW STRIP HEAT (BAYHTRG108A)	R454B	378 LBS.
RTU-2	1600	193	0.6"	6.8	11.9	1	0.85	1	-	-	208	3	46,000	15.2/ 8.1	42,000	TRANE 5WCZ5048 4 TON PACKAGED UNIT 2-STAGE ELEC. HEAT/COOLING 7.5KW STRIP HEAT (BAYHTRV310A)	R454B	481 LBS.
RTU-3	1600	163	0.6"	6.8	11.9	1	0.85	1	-	-	208	3	46,000	15.2/ 8.1	42,000	TRANE 5WCZ5048 4 TON PACKAGED UNIT 2-STAGE ELEC. HEAT/COOLING 7.5KW STRIP HEAT (BAYHTRV310A)	R454B	481 LBS.
RTU-4	2000	431	0.6"	6.9	13.9	1	1.7	1	-	-	208	3	58,000	15.2/ 7.2	46,000	TRANE 5WCZ5060 5 TON PACKAGED UNIT 2-STAGE ELEC. HEAT/COOLING 7.5KW STRIP HEAT (BAYHTRV310A)	R454B	495 LBS.
RTU-5	2000	431	0.6"	6.9	13.9	1	1.7	1	-	-	208	3	58,000	15.2/ 7.2	46,000	TRANE 5WCZ5060 5 TON PACKAGED UNIT 2-STAGE ELEC. HEAT/COOLING 7.5KW STRIP HEAT (BAYHTRV310A)	R454B	495 LBS.

4

M1

HVAC NOTES

N.T.S.

ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NC MECHANICAL CODE.

ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-6.0 INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING.

ALL EXPOSED ROUND DUCT SHALL BE DOUBLE WALL INSULATED. EXPOSED RECTANGULAR DUCT SHALL BE INTERNALLY LINED WITH INSULATION

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW. VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THROUGH WALLS.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ARCHITECT.

MECHANICAL CONTRACTOR TO CONFIRM BREAKER/DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

FURNISH AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT OF THE A/C UNIT IN ACCORDANCE WITH 2018 NC MECHANICAL CODE. THE DETECTOR SHALL BE WIRED TO SHUT DOWN THE FAN IN THE EVENT THE DETECTOR IS ACTIVATED. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE DUCT DETECTOR AND RUN THE NECESSARY CONTROL WIRING FROM THE DETECTOR TO HIS EQUIPMENT. SMOKE DETECTORS ARE ONLY REQUIRED FOR UNITS SUPPLYING 2000 CFM OR MORE.

MECHANICAL CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT SYSTEM COMPLIANCE STATEMENT REQUIRES A WRITTEN TAB REPORT. FINAL PROJECT SIGNOFF WILL BE DENIED WITHOUT THIS REPORT

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone 4A

winter dry bulb: 27°

summer dry bulb: 94°

Interior design conditions

winter dry bulb: 40°

summer dry bulb: 75°

relative humidity: 50%

Building heating load: 101,981 BTU

Building cooling load: 95,651 BTU

Mechanical Spacing Conditioning System

Unitary

description of unit: PACKAGE HEAT PUMP

heating efficiency: 8.2 HSPF

cooling efficiency: 14.0 SEER

size category of unit: <65,000 BTU

Boiler

Size category. If oversized, state reason:.

Chiller

Size category. If oversized, state reason:.

List equipment efficiencies:

SYSTEMS USING A2L REFRIGERANT SHALL BE LISTED TO UL STANDARD 60335-2-40, CURRENT EDITION.

PER EPA SNAP 23, SYSTEMS USING A2L REFRIGERANT SHALL HAVE PERMANENTLY AFFIXED MARKINGS AND LABELING TO INDICATE REFRIGERANT INSTALLED IN THE SYSTEM AND NOTICE OF LEAK DETECTION SYSTEM INSTALLED, AND SHALL HAVE SERVICE PORTS, PIPES, HOSES AND OTHER DEVICES THROUGH WHICH REFRIGERANT FLOWS TO BE MARKED IN RED.

SYSTEMS USING A2L REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR COOL WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNITS FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.

FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.

AS PART OF SUBMITTALS, PROVIDE CALCULATED RELEASABLE REFRIGERANT CHARGE FOR EACH SYSTEM, INCLUDING CONNECTING PIPING.

3

M1

A2L REFRIGERANT NOTES

N.T.S.

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
STORAGE	159	0	0	0	0	0.12	39		
OFFICE	127	0	0	0	0	0.06	8		
CORRIDOR	186	50	9.3	10	5	0.06	61		
BREAK ROOM	54	0	0	0	0	0	0		70
TOILET	81	5	0.405	1	5	0.06	30		
EXAM 6									
TOTAL CFM REQUIRED							311		70
TOTAL CFM FURNISHED							311		70

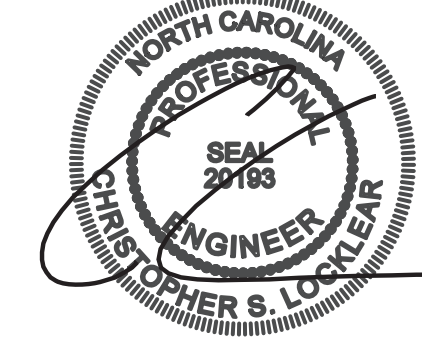
OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
EXAM 1	80	5	0.4	1	5	0.06	30		
CORRIDOR	191	0	0	0	0	0.12	29		
FRONT DESK	100	5	0.75	1	5	0.06	34		
WAITING AREA	680	30	20.4	21	5	0.06	146		
TOILET	57	0	0	0	0	0	0		70
TOTAL CFM REQUIRED							359		70
TOTAL CFM FURNISHED							359		70

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
EXAM 5	80	5	0.4	1	5	0.06	30		
EXAM 4	80	5	0.4	1	5	0.06	30		
EXAM 3	80	5	0.4	1	5	0.06	30		
EXAM 2	80	5	0.4	1	5	0.06	30		
CORRIDOR	127	0	0	0	0	0.06	8		
NURSE STATION	208	5	3.29	2	5	0.06	25		
LAB	146	5	0.75	1	5	0.06	34		
TOILET	90	5	0.45	1	5	0.06	30		
OFFICE	50	0	0	0	0	0	0		70
STORAGE	50	0	0	0	0	0.12	6		
TOILET	92	5	0.46	1	5	0.06	31		
CORRIDOR	387	0	0	0	0	0.06	11		
EXAM 7	80	5	0.4	1	5	0.06	30		
EXAM 8	80	5	0.4	1	5	0.06	30		
EXAM 9	80	5	0.4	1	5	0.06	30		
TRIAGE	75	5	0.375	1	5	0.06	30		
TOTAL CFM REQUIRED							363		70
TOTAL CFM FURNISHED							363		70

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
RETAIL	1845	15	27.675	28	7.5	0.12	431		
TOILET	51	0	0	0	0	0	0		70
TOTAL CFM REQUIRED							431		70
TOTAL CFM FURNISHED							431		70

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
RETAIL	1845	15	27.675	28	7.5	0.12	431		
TOILET	51	0	0	0	0	0	0		70
TOTAL CFM REQUIRED							431		70
TOTAL CFM FURNISHED							431		70

Jun 29, 2026



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PROJECT NO: 2026-025

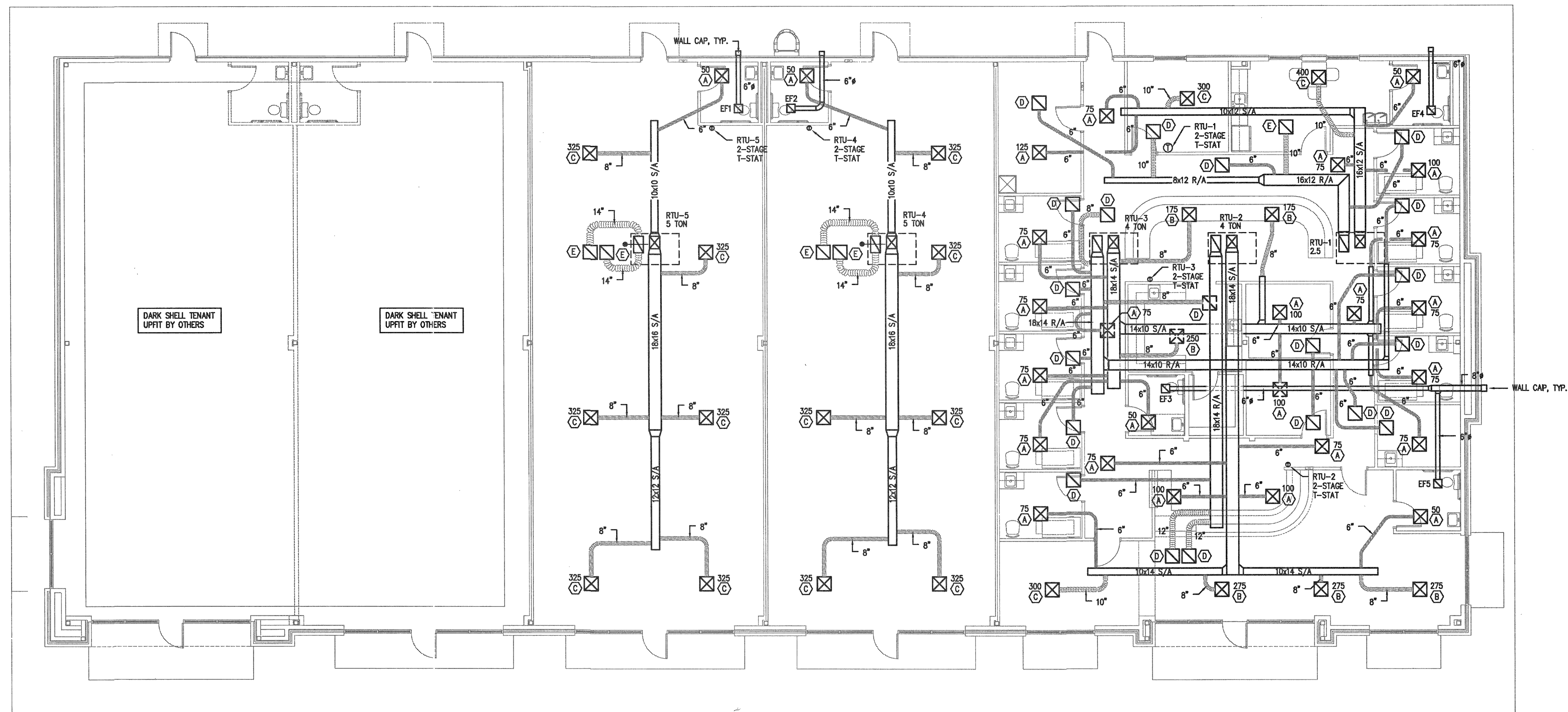
DRAWN BY: CSJ/MLL

DATE: 03-24-26

REVISIONS:

SHEET NO:

M1



1
M2 HVAC PLAN
1/8"=1'-0"



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PROJECT NO: 2026-025
DRAWING BY: CSJ/MLL
DATE: 03-24-26
REVISIONS:

SHEET NO:
M2

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN OR THWN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX PERMITTED.

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUNITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE 1 WILL BE USED FOR CONCRETE ENCASUREMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUIDTIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUIDTIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR GRILLE.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.

ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

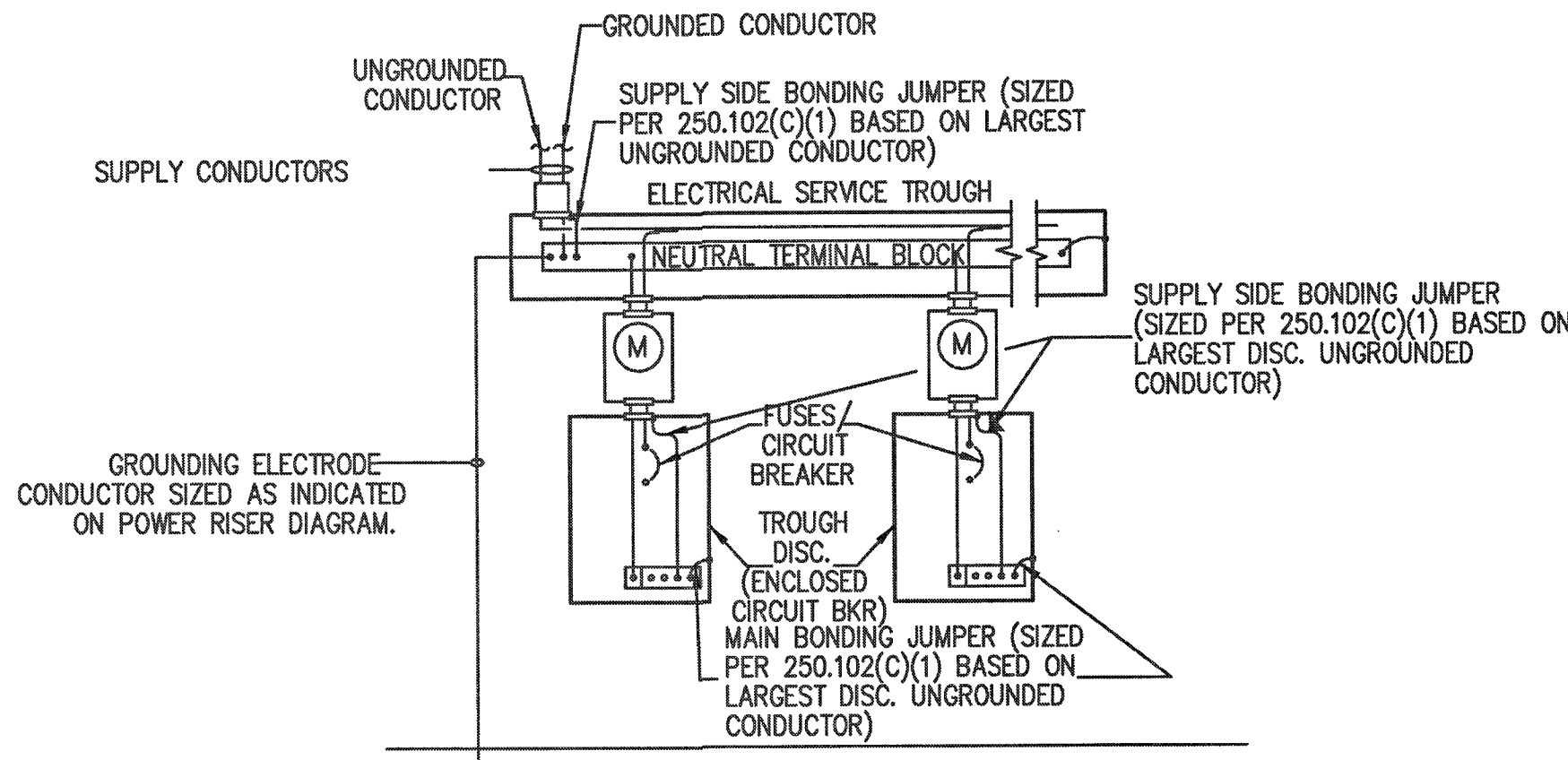
WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER.

ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES

RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF ASSEMBLY

ELECTRICAL SYMBOL LIST

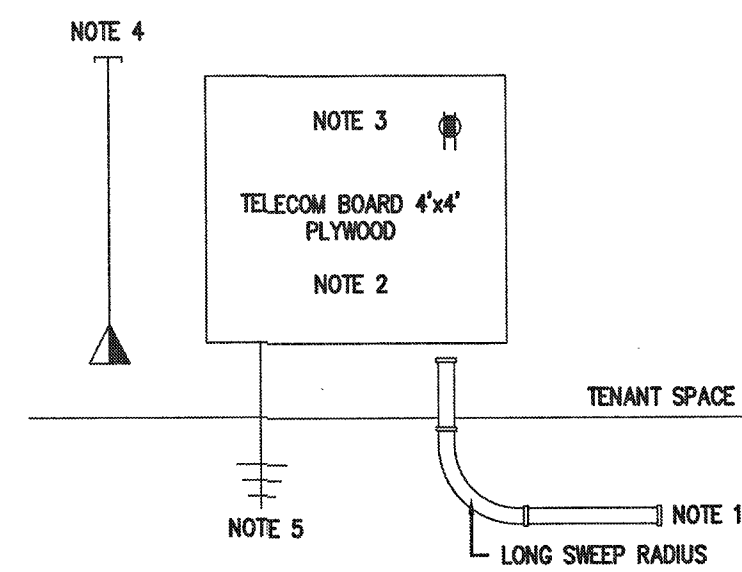
○	LIGHT FIXTURE INCANDESCENT OR H.I.D.	⊗	EXIT LIGHT FIXTURE
○	LIGHT FIXTURE WALL MOUNTED	NL	NIGHT LIGHT
□	FLOURESCENT LIGHT FIXTURE	⚡	EMERGENCY LIGHT W/ 90 MIN. BATTERY
⊕	DUPLEX REICEPTACLE (+18")	Ⓜ	GFI TYPE RECEPTACLE
⊖	ISOLATED GROUND TYPE D.R.	D.R.	DUPLEX RECEPTACLE
(+0")	CENTERLINE HEIGHT OF DEVICE BOX ABOVE FINISH FLOOR		
S	SINGLE PCLE SWITCH (+42")	⚡	SW. WITH PILOT LIGHT
S ₂	3-WAY SWITCH (+42")	⚡	3-WAY SW. W/ PILOT LIGHT(+42")
S ₄	4-WAY SWITCH (+42")	Ⓜ	SPECIAL PURPOSE OUTLET
S ₂	KEYED SINGLE POLE SWITCH (+42")	S ₂	KEYED THREE-WAY SWITCH
⊖	N/F DISCONNECT SWITCH	⊖	FUSED DISCONNECT SWITCH
RT	RAINTIGHT (NEMA 3R)	(60/50/3)	AMP SIZE/FUSE SIZE/POLES
⊕	STARTER	Ⓜ	MANUAL STARTER SWITCH
⊕	MOTOR SYMBOL	Ⓜ	MANUAL STARTER SWITCH W/ PILOT LIGHT
⊕	RELAY	⊖	PHOTOCONTROL
⊕	DIMMER SWITCH	⊖	JUNCTION BOX (J.B.)
⊕	PUSHBUTTON OR CONTROL STATION	⊖	OUTLET BOX
⊕	TELEPHONE: O.B. (3/4" C. TO CEILING SPACE)	O.B.	CHILD-PROOF
⊕	DATA O.B. (3/4" C. TO CEILING SPACE)	⊖	CHILD-PROOF
⊕	TELEPHONE & DATA O.B. (3/4" C. TO CEILING SPACE)		
□	PLAN NOTE: SYMBOL WP WEATHERPROOF	A.F.F.	ABOVE FINISH FLR.
C/B	CIRCUIT BREAKER	CKT.	CIRCUIT
---	CONCEALED CONDUIT (2#12 AWG AND APPROVED GROUND MINIMUM - TYPICAL)	---	CONDUIT
---	CONDUIT BELOW FLOOR OR GRADE	----	CONDUIT EXPOSED
HOMERUN	NUMBER OF WIRES, PANEL DESIGNATION, CIRCUIT NUMBERS		
⊕	BRANCH CIRCUIT PANELBOARD	⊕	MAIN DISTRIBUTION PANEL
⊕	QUAD RECEPTACLE	⊕	CATV OUTLET
⊕	ALARM OUTLET BOX (3/4" CONDUIT TO CEILING SPACE)		



GROUNDING DETAIL NOTES:

- GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC 250.52(A).
- GROUNDING ELECTRODES SHALL BE INSTALLED IN ACCORDANCE WITH NEC 250.53.

2
E1
GUTTER GROUNDING DIAGRAM
N.T.S.



TELECOM RISER NOTES:

- NEW 1" CONDUIT PROVIDED UNDER SLAB TO BUILDING TELECOM CABINET. EXTEND CONDUIT STUB-IN AS NEEDED TO REACH TELECOM BOARD LOCATION.
- 3/4" FINISH GRADE PLYWOOD BACKBOARD PAINTED WITH FLAME RETARDANT PAINT. MOUNT 24" AFF TO BOTTOM OF BOARD.
- PROVIDE DUPLEX RECEPTACLE ON A DEDICATED CIRCUIT FOR TELEPHONE AND OTHER COMMUNICATION EQUIPMENT.
- TELEPHONE/DATA OUTLET, +18" A.F.F. TO CENTER, W/ 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING.
- PROVIDE #6 CU GROUND TO SERVICE GROUND BAR WITH ADEQUATE SLACK FOR GROUNDING OF TELECOM EQUIPMENT.

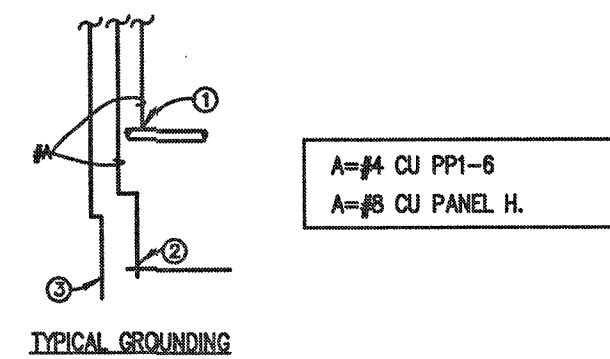
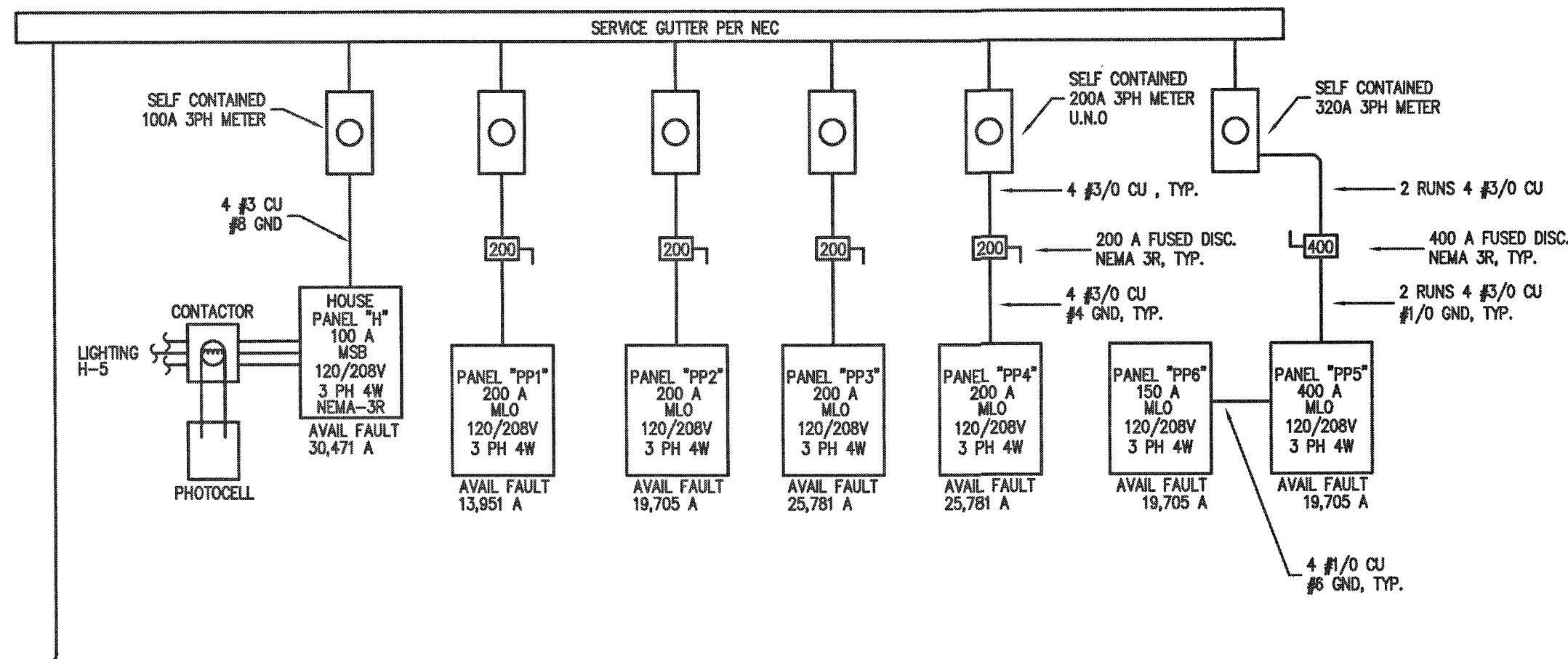
3
E1
TELECOM RISER NOTES
N.T.S.

1
E1
ELECTRICAL NOTES
N.T.S.

ROOM										VOLTS 208Y/120V 3P 4W										A/C 35,000									
MOUNTING FLUSH										BUS AMPS 100										MAIN BKR 100									
FED FROM UTILITY										NEUTRAL 100%										LUGS STANDARD									
NOTE																													
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA																				
			A	B	C				A	B	C																		
1	20/1	SITE LIGHTING	0.908	0.221	0.542	2	20/1	SPACE	0																				
3	20/1	LIGHTING				4	20/1	SPACE		0																			
5	20/1	LIGHTING				6	20/1	SPACE			0																		
7	20/1	SPACE	0			8	20/1	SPACE	0																				
9	20/1	SPACE		0		10	20/1	SPACE		0																			
11	20/1	SPACE			0	12	20/1	SPACE			0																		
13	20/1	SPACE	0			14	20/1	SPACE	0																				
15	20/1	SPACE		0		16	20/1	SPACE		0																			
17	20/1	SPACE			0	18	20/1	SPACE			0																		
19	20/1	SPACE	0			20	20/1	SPACE	0																				
						TOTAL CONNECTED KVA BY PHASE			0.908	0.221	0.542																		
			CONN KVA	CALC KVA					CALC KVA																				
LIGHTING			1.67	2.09	(125%)	TOTAL LOAD			2.09																				
						BALANCED 3-PHASE LOAD			5.8 A																				

AVAILABLE FAULT CALCULATIONS
20'-0" OF 4 RUNS OF 4 #400 TO
500 KVA PAD MOUNT 2.8052
41,952 A

FROM UTILITY



GROUNDING ELECTRODE DETAILS

GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 BARE COPPER. OTHER MATERIAL AND INSTALLATION PER NEC 250

- CONNECT TO METALLIC WATER PIPE AS REQ'D.
- #4 COPPER GROUND PLACED TO BLDG STEEL
- 3/4"x10' LONG COPPER CLAD GROUNDING ROD W/ #6 COPPER GROUND.

ELECTRICAL LOAD SUMMARY

LOAD TYPE	
HOUSE PANEL	6,190 KVA
RETAIL SPACES	25 KVA
RETAIL SPACES	25 KVA
RETAIL SPACES	25 KVA
RETAIL SPACES	25 KVA
HEALTH CARE	71 KVA
TOTAL	177.2 KVA

4
E1
ELECTRIC RISERS
N.T.S.

May 28, 2026



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PROJECT NO: 2026-1025

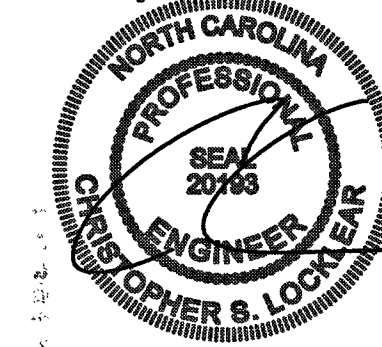
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E1



PP3

ROOM MOUNTING FLUSH FED FROM UTILITY NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC 30,000 MAIN BKR MLO LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	80/3	RTU-5***	4.77			2	20/1	EF1, LIGHTING	0.645		
3				4.77		4	20/1	SPACE		0	
5					4.77	6	20/1	SPACE			0
7	20/1	HHW-3	1.65			8	20/1	SPACE	0		
9	20/1	RECEPTACLE		0.72		10	20/1	SPACE		0	
11	20/1	SIGN			1.2	12	20/1	SPACE			0
13	20/1	RECEPTACLE	0.72			14	20/1	SPACE	0		
15	20/1	RECEPTACLE		0.18		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									7.78	5.67	5.97
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING			1.83	2.28	(125%)	CONTINUOUS			1.65	2.06	(125%)
LARGEST MOTOR			5.01	1.25	(25%)	NONCONTINUOUS			0.02	0.02	(100%)
RECEPTACLES			1.62	1.62	(50%>10)	HEATING			14.3	14.3	(100%)
						COOLING			6.8	0	(0%)
*** VERIFY W/MANF						TOTAL LOAD			21.5		
						BALANCED 3-PHASE LOAD			59.8	A	

PP4

ROOM MOUNTING FLUSH FED FROM UTILITY NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC 30,000 MAIN BKR MLO LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	80/3	RTU-4 ***	4.77			2	20/1	EF2, LIGHTING	0.645		
3				4.77		4	20/1	SPACE		0	
5					4.77	6	20/1	SPACE			0
7	20/1	HHW-2	1.65			8	20/1	SPACE	0		
9	20/1	RECEPTACLE		0.72		10	20/1	SPACE		0	
11	20/1	SIGN			1.2	12	20/1	SPACE			0
13	20/1	RECEPTACLE	0.72			14	20/1	SPACE	0		
15	20/1	RECEPTACLE		0.18		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
						TOTAL CONNECTED KVA BY PHASE			7.78	5.67	5.97

PP5

ROOM MOUNTING FLUSH FED FROM UTILITY NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%			AIC 20,000 MAIN BKR MLO LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	UTILITY RECEPTACLE	0.36			2	20/1	EXAM 7 RECEPTACLE	0.72		
3	20/1	UTILITY RECEPTACLE		0.54		4	20/1	EXAM 6 RECEPTACLE		0.72	
5	40/2	HW-1			3	6	20/1	ENC RECEPTACLE			0.18
7			3			8	20/1	BREAK RM RECEPTACLE	0.54		
9	20/1	RECIR. PUMP		0.864		10	20/1	BREAK RM RECEPTACLE		0.18	
11	20/1	EXAM 5 RECEPTACLE			0.72	12	20/1	BREAK RM RECEPTACLE			0.36
13	20/1	EXAM 4 RECEPTACLE	0.72			14	20/1	OFFICE RECEPTACLE	0.72		
15	20/1	EXAM 3 RECEPTACLE		0.72		16	20/1	NURSE STATION RECEPTACLE		0.54	
17	20/1	EXAM 2 RECEPTACLE			0.72	18	20/1	NURSE STATION RECEPTACLE			0.54
19	20/1	EXAM 1 RECEPTACLE	0.72			20	20/1	OFFICE RECEPTACLE	0.72		
21	20/1	WAITING AREA RECEPTACLE		1.08		22	20/1	NURSE STATION RECEPTACLE		0.36	
23	20/1	RECEPTION RECEPTACLE			0.72	24	80/2	RTU-1***			5.05
25	20/1	RECEPTION RECEPTACLE	1.08			26			5.05		
27	20/1	CORRIDOR RECEPTACLE		0.54		28	20/1	RECEPTACLE		0.18	
29	20/1	CORRIDOR RECEPTACLE			0.9	30	20/1	SPACE			0
31	150/3	PANEL PP6	8.62			32	20/1	SPACE	0		
33				7.73		34	20/1	SPACE		0	
35					7.44	36	20/1	SPACE			0
37	60/3	RTU-2***	4.46			38	20/1	SPACE	0		
39				4.46		40	20/1	SPACE		0	
41					4.46	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									26.7	17.9	24.1
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING			5.32	6.65	(125%)	CONTINUOUS			6	7.5	(125%)
LARGEST MOTOR			4.29	1.07	(25%)	NONCONTINUOUS			0.06	0.06	(100%)
MOTORS			0.864	0.864	(100%)	HEATING			36.9	36.9	(100%)
RECEPTACLES			19.6	14.8	(50%>10)	COOLING			15.9	0	(0%)
*** VERIFY W/MANF						TOTAL LOAD			67.8		
						BALANCED 3-PHASE LOAD			188 A		

PP6

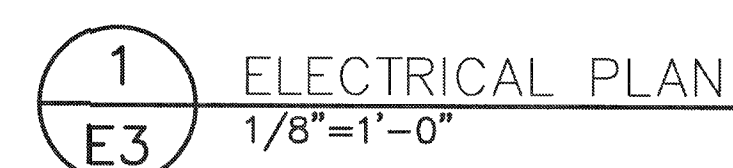
ROOM MOUNTING FLUSH FED FROM PP5 NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 150 NEUTRAL 100%			AIC 20,000 MAIN BKR MLO LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	SPACE	0			2	20/1	LIGHTING	0.617		
3	20/1	SPACE		0		4	20/1	LIGHTING		0.445	
5	20/1	SPACE			0	6	20/1	EF5, LIGHTING			0.64
7	60/3	RTU-3***	4.46			8	20/1	EF4, LIGHTING	0.726		
9				4.46		10	20/1	EF3, LIGHTING		0.549	
11					4.46	12	20/1	EXAM 8 RECEPTACLE			0.72
13	20/1	SIGN	1.2			14	20/1	EXAM 9 RECEPTACLE	0.72		
15	20/1	SIGN		1.2		16	20/1	TRIAGE RECEPTACLE		0.72	
17	20/1	LAB RECEPTACLE			0.36	18	20/1	TLT/STOR./CORR. RECEPTACLE			0.72
19	20/1	LAB RECEPTACLE	0.18			20	20/1	OFFICE RECEPTACLE	0.72		
21	20/1	LAB RECEPTACLE		0.36		22	20/1	SPACE		0	
23	20/1	LAB RECEPTACLE			0.54	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
						TOTAL CONNECTED KVA BY PHASE			8.62	7.73	7.44
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			5.32	6.65	(125%)	NONCONTINUOUS			0.06	0.06	(100%)
LARGEST MOTOR			4.29	1.07	(25%)	HEATING			13.4	13.4	(100%)
RECEPTACLES			5.04	5.04	(50%-10)	COOLING			5.88	0	(0%)
*** VERIFY W/MANF						TOTAL LOAD			26.2		
						BALANCED 3-PHASE LOAD			72.7	A	

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "CHRISTOPHER S. LOCKLEAR" at the bottom. The inner circle contains the text "PROFESSIONAL" at the top and "ENGINEER" at the bottom. In the center, it says "SEAL 20163". A stylized signature is written across the seal.

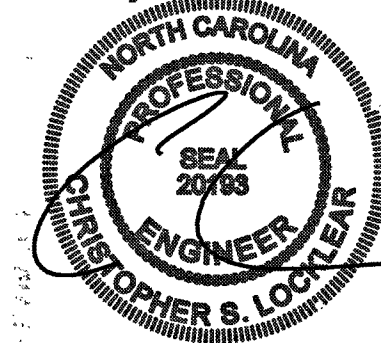
2995 LOCKLEAR RD
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Pembroke, NC 28372
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—

F



May 28, 2026



Coastal Plains Engineering, P.A.

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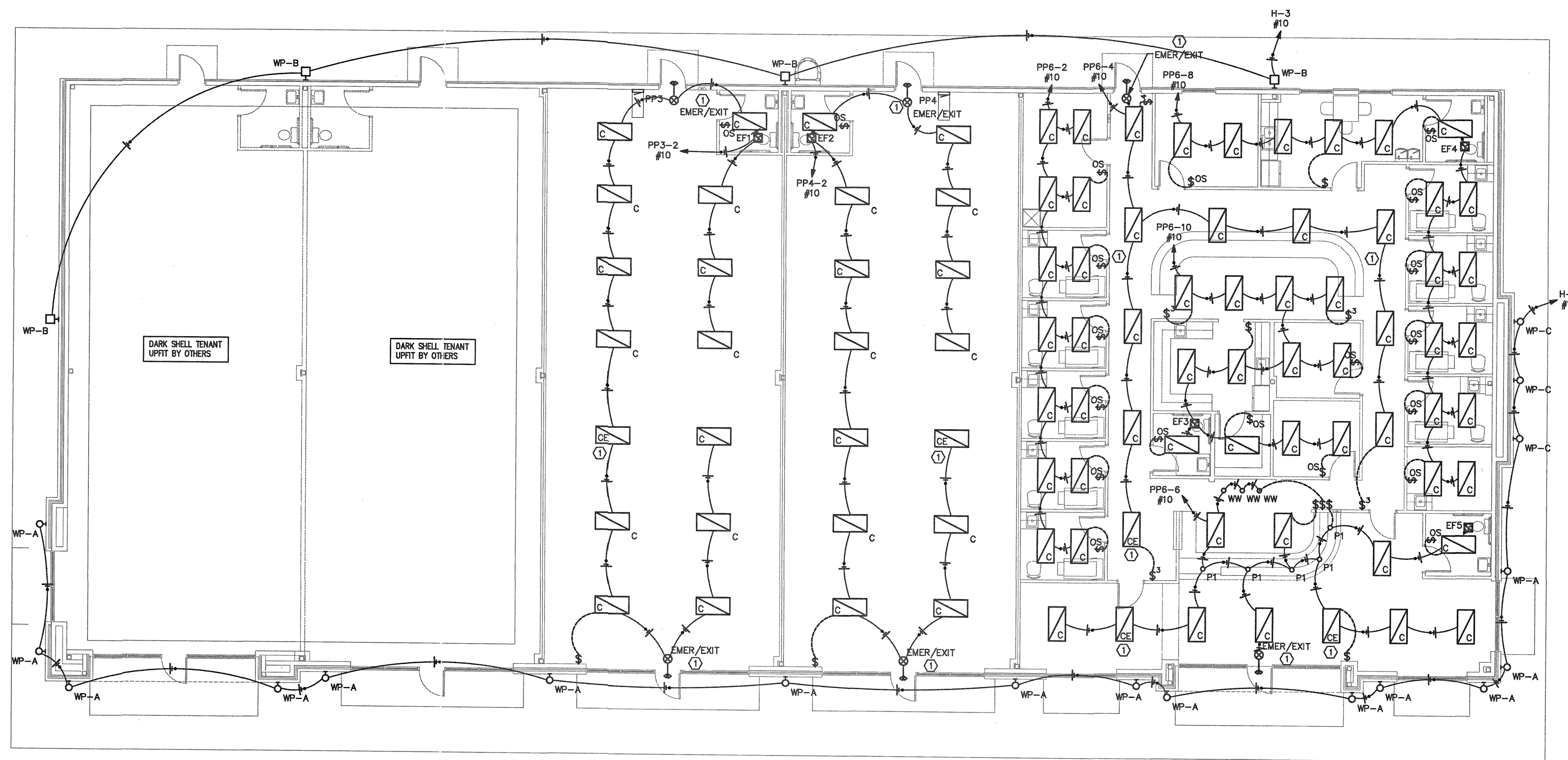
PROJECT NO: 2026-025

DATE: 03-24-26

REVISIONS

SHEET NO:

E4



APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

Energy Code: ☒ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)

lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture

SEE FIXTURE SCHEDULE

3815/7372 total interior wattage specified vs. allowed (whole building or space by space)

784/27148 total exterior wattage specified vs. allowed

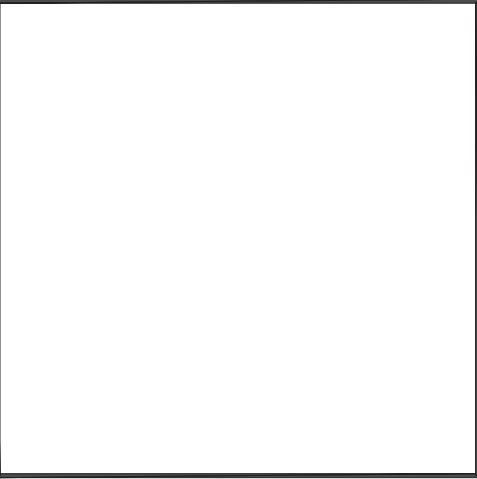
Additional Prescriptive Compliance

- ☐ 506.2.1 More Efficient HVAC Equipment
- ☒ 506.2.2 Reduced Lighting Power Density
- ☐ 506.2.3 Energy Recovery Ventilation Systems
- ☐ 506.2.4 Higher Efficiency Service Water Heating
- ☐ 506.2.5 On-Site Supply of Renewable Energy
- ☐ 506.2.6 Automatic Daylighting Control Systems

1
E4 LIGHTING PLAN
1/8"=1'-0"

BRYANT (HUBBELL) MSD1000W OR EQUAL WALL SWITCH OCCUPANCY SENSOR
DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY
1,000 SQUARE FOOT COVERAGE
800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC
ALL O.S. TO BE WALL MOUNTED TO ALLOW FOR OCCUPANT MANUAL OVERRIDE

① UNSWITCHED LEG OF CIRCUIT TO BATT PACK, SWITCHED LEG TO NORMAL LED DRIVER



Coastal Plains Engineering, P.A.

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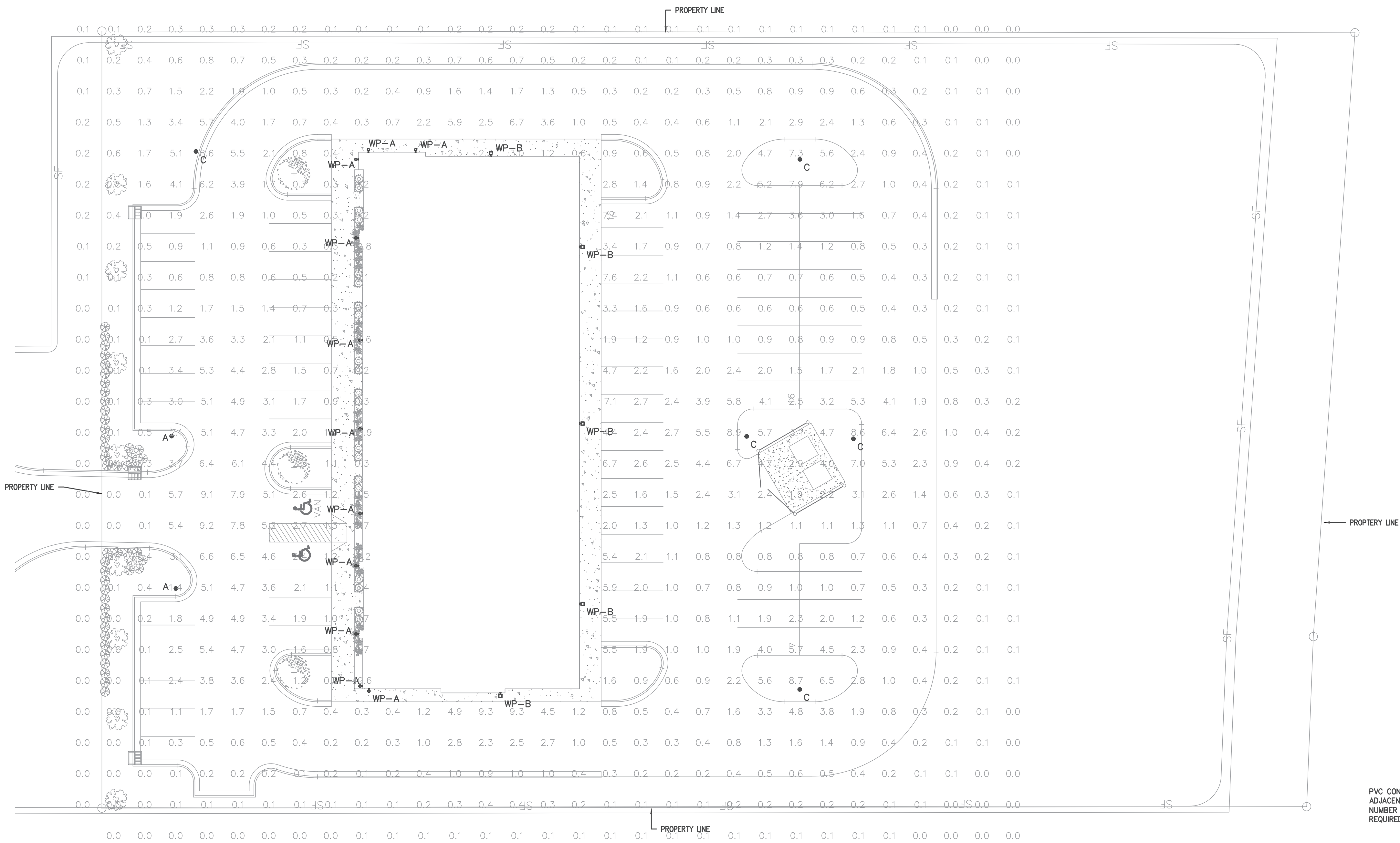
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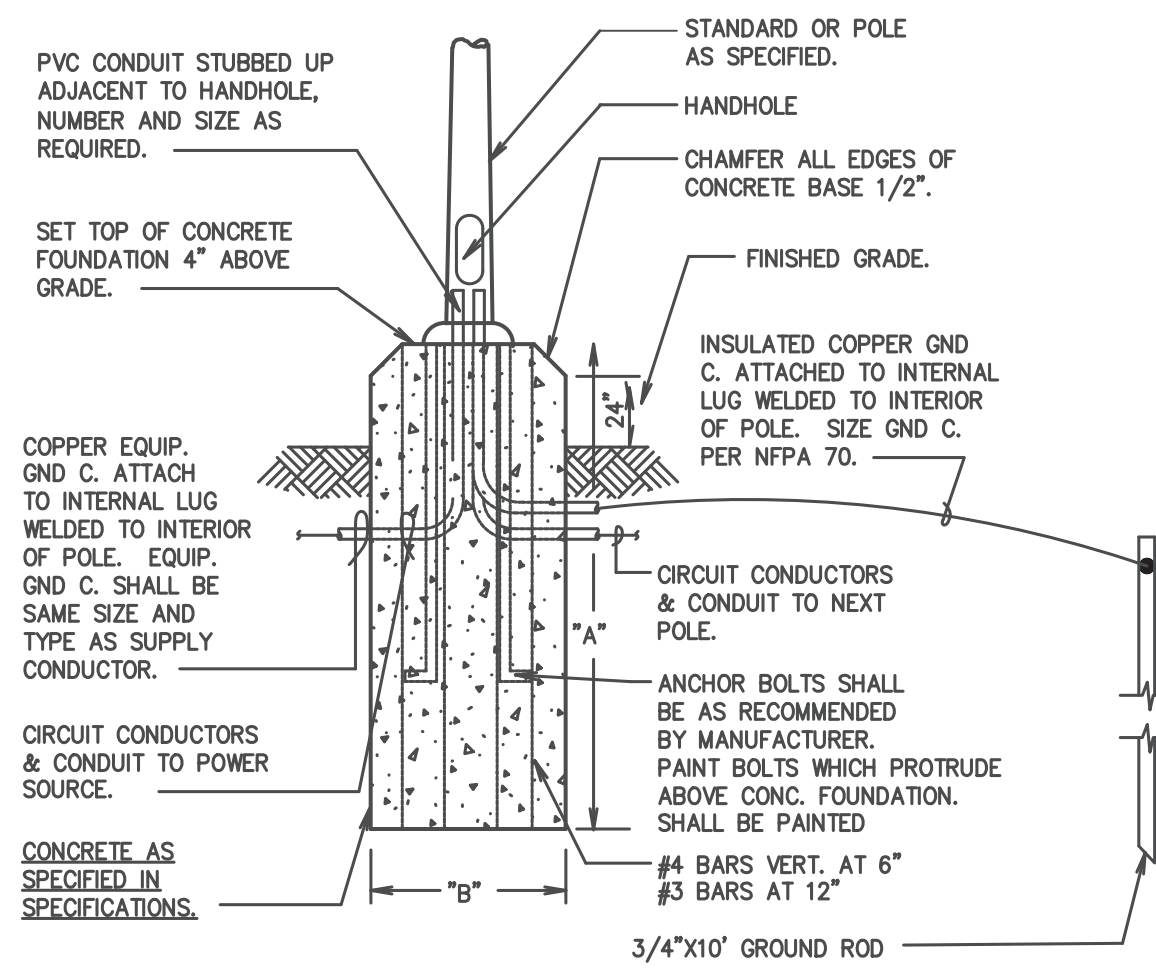
PROJECT NO: 2026-025
DRAWN BY: CSL/M/L
DATE: 03-24-26
REVISIONS:

SHEET NO:
SL1



GENERAL PHOTOMETRIC SCHEDULE	
AVERAGE FOOT-CANDLES	1.67
MAXIMUM FOOT-CANDLES	71.6
MINIMUM FOOT-CANDLES	0.0
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	18999.06
AVERAGE TO MINIMUM FC RATIO	443.80

1
SL1 SITE LIGHTING/PHOTOMETRIC PLAN
1"=30'-0"



LEGEND
GND C. - GROUNDING CONDUCTOR

POLE HT.	A	B
8' - 12'	36"	12"
13' - 19'	42"	16"
20' - 29'	72"	24"
30' - 39'	78"	30"

2
SL1 POLE BASE DETAIL
N.T.S.

LUMINAIRE SCHEDULE									
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1
A	●	(80) 80 WHITE LIGHT EMITTING DIODES (LEDs), BASE UP.	CAST BLACK PAINTED FINNED METAL HOUSING.	ELECTRONIC	POLE	U.S. ARCHITECTURAL LIGHTING, PAC24--PT2--PLED--IV--80LED--525mA--40K--HS	129.7	120V 1P 2W	20'-0" MOUNTING HEIGHT
C	●	(1) 80 WHITE LIGHT EMITTING DIODES (LEDs), BASE UP.	CAST BLACK PAINTED FINNED METAL HOUSING.	ELECTRONIC	POLE	U.S. ARCHITECTURAL LIGHTING, PAC24--PT2--PLED--AL--ASY--80LED--525mA--40K--HS	129.7	120V 1P 2W	20'-0" MOUNTING HEIGHT
WP-A	◦	(1) (1) 2700K CCT, 90 CRI LED	LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.	ELECTRONIC	WALL	COOPER LIGHTING SOLUTIONS - LUMIERE (FORMERLY EATON), 9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV	40.2	120V 1P 2W	7'-0" MOUNTING HEIGHT
WP-B	◻	(1) LED	LED WALL PACK	ELECTRONIC	WALL	EXO, PVL3--180L--60--4K	55.3	120V 1P 2W	PHOTO CONTROL - 12'-0" MOUNTING HEIGHT

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumiere Lanterra 9004

Wall Mount Cylinder Interior / Exterior Integrated LED

Typical Applications

- Hospitality • Commercial Landscape • Outdoor Area/Site • Residential • Architectural

Product Certification

cULus LISTED, ENEC, IP66, LM79, BAA, TMA

Product Features

- Interactive Menu
 - Order Information page 2
 - Product Specifications page 3
 - Mounting Details page 4
 - Lumen Table page 6
 - Photometrics page 7
 - Integrated Sensor page 8

Top Product Features

- Uplight, downlight or combined up and downlight
- Up to 2500 delivered lumens per side and 110 LPW
- Field Interchangeable Spot, Medium, Flood and Wide optics
- Integrated LED source with 80, 90, and 97 CRI options available
- Premium machined aluminum construction with stainless steel hardware
- Line voltage input with ELV, Triac and 0-10V dimming standard
- Integral and remote driver mounting options

Dimensions
WSS model shown

9004-W1-BW	9004-W2-BW	9004-W1-FL	9004-W2-FL

COOPER Lighting Solutions

AREA & ROADWAY LIGHTING

Pacifica® - PT2 PLED

CONTEMPORARY, ROUND FORM POST TOP LUMINAIRE

Luminaire
All housing components are all heavy wall cast aluminum alloy (A356 alloy, 62.2% copper). Removable internal height provides direct mounting of the LED modules and thermal control for long life and efficiency. Optical coes through the aperture of housing top. Driver is accessed through filter cap of shul base. All hardware is stainless steel.

Post Top Mounting
Luminaire filter mounts over 2-7/8" O.D. x 3.00" feron. Stainless steel set screws provided for leveling and securing luminaire over feron.

PLED™ Optics
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED reflector. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the reflector directs the house side emitter output towards the steel side, maximizing visible light. Optional house side shields are available that cover each individual optic. Reflectors are injection molded H12 acrylic. Each LED reflector is sealed to the PCB over an emitter and all reflectors are retained by an aluminum frame. Any one panel, or group of panels in a luminaire, have the same optical pattern. LED reflectors produce standard s/e/area distributions. Panels are field replaceable and field rotatable in 90° increments. Quick-disconnects are provided above each panel for fast field replacement. All future optical options will provide a "0°" no uplight optical package and are dark sky friendly.

Ambience™ Low Luminance Lens
Optional Ambience Lens (AL) provides low luminance reduced glare distributions. Lens diffuses the PLED Optics and provides a more uniform luminance across the aperture reducing glare at all angles. Lens is provided with an aluminum frame and is sealed to the housing with high temp gasketing.

LED Emitters
LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max of 150 °C for long life. High lumen maintenance and color stability. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard Warm White (2700K & 3000K), Neutral White (4000K), and Cool White (5000K). All Standard LED's have a minimum of 70 CRI. Consult factory for other LED options. Lumen Maintenance of 193 at 100,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TBA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

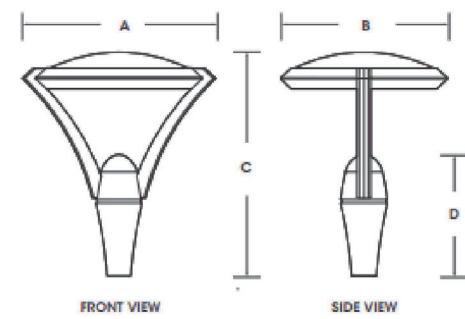
LED Driver
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical array. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50/60Hz, 0 - 10V dimmable driver is standard. Driver has a minimum of 3kV internal surge protection. Luminaire supplied with a separate 200V surge protector for field installation.

Finish
Super 160C polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.

PROJECT NAME: _____
PROJECT TYPE: _____



PAC-PT2
(PAC24-PT2 shown)



Feature	A	B	C	D
PAC24-PT2	28" 711mm	24" 609mm	32" 813mm	17.5" 443mm
PAC18-PT2	22" 559mm	14" 356mm	25" 635mm	14" 356mm



2023087



U.S. Pole Company Inc.

140 West Avenue D, Hemet, CA 93801

An Employee-Owned Company | Phone (861) 233-2500 | www.usacoy.com



U.S. ARCHITECTURAL LIGHTING



PERIMALITER®

PGM3/PGL3 LED WALL PACK

FEATURES

- Available in two sizes and four outputs up to 7100 lumens
- A specially designed polycarbonate lens provides ultimate glare control which "softens" the light for no pollution and unprecedented visual comfort
- Wireless control, motion sensor and photocell
- 10kA surge protection standard
- Dark bronze matte textured powder paint finish is standard, other finishes available
- PVL3 only available in dark bronze matte and white finishes

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____



SPECIFICATIONS

CONSTRUCTION

- The die-cast aluminum housing provides 1mm mounting over recessed junction boxes
- 3 x 1/2" threaded conduit holes (top and sides) for surface conduit wiring or Photocell for dusk-to-dawn control
- Two door options available: Cast aluminum frame with prismatic borosilicate glass (PGM3), One piece, prismatic, vandal resistant polycarbonate cover (PVL3)
- Standard finish is dark bronze textured powder paint. The PGM3 version is available in alternate finishes of black, white, grey, platinum silver and custom colors

OPTICS

- 80 high powered LEDs in produce up to 7100 lumens in PGM3 and 6528 lumens in PVL3
- CCT - 3000K, 4000K, 5000K (70 CRI)

ELECTRICAL

- 120-277V universal voltage 50/60Hz, 0-10V dimmable
- Driver RoHS and IP66
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- 10kA surge protection (parallel). Automatically takes failure off-line when device is consumed

CONTROLS

- Photocell and occupancy sensor options available for complete on/off or programmable dimming control

CERTIFICATIONS

- Listed to UL1598 for use in wet locations
- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to <http://www.designlights.org/> for the most up-to-date list.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	3516-7102
Wattage Range	275-544
Efficacy Range (LPW)	120-138
Life (Hours)	>60,000

Current™

currentlighting.com/EXO

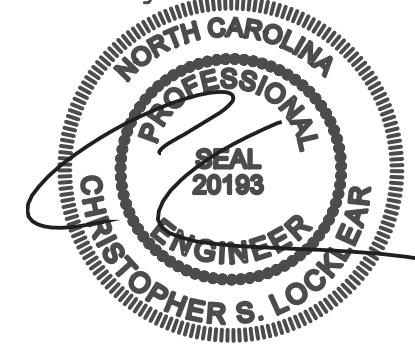
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Page 1 of 3

Rev: 10/20/2023

pgm3_pt2_led_wall_pack_PLED_2023

May 12, 2026



Coastal Plains Engineering, P.A.

Licenses No. C-2009

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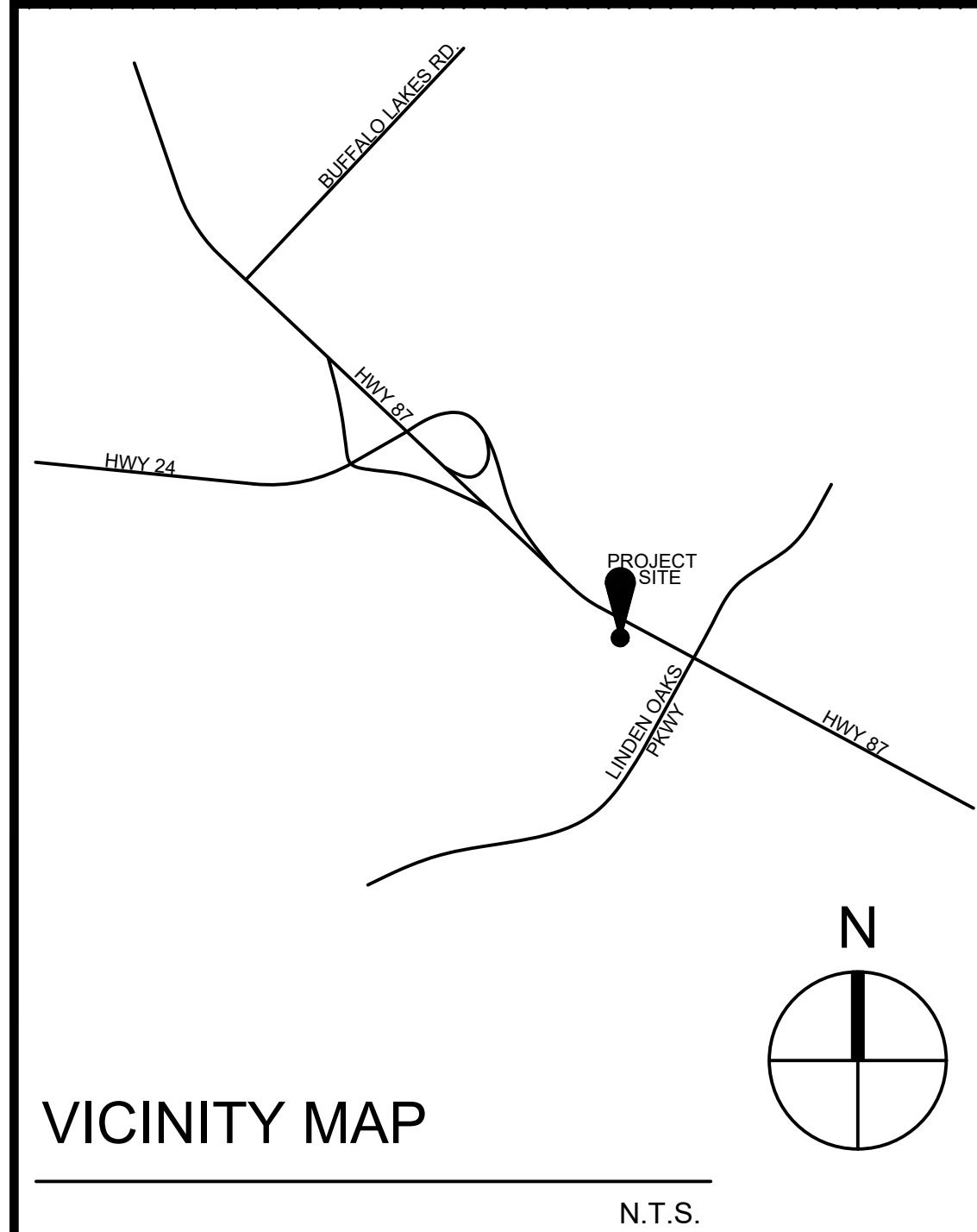
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DATE: 03-24-26

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SHEET NO:

SL2



VICINITY MAP

N.T.S.

ESENSOY MEDICAL CENTER

CAMERON, NORTH CAROLINA

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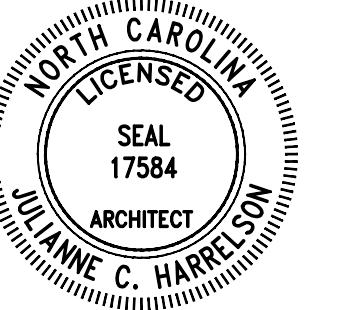
The Harnett County Development Review Board has approved this Site Plan. This project is subject to all federal, state, and local government regulations and 08/18/2026 applicable expiration periods.

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G-101c	APPENDIX B, VANILLA SHELL TWO
G-101d	APPENDIX B, PEDIATRIC DR. OFFICE
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SP3	EROSION CONTROL DETAILS
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SL2	SITE LIGHTING DETAILS



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ABBREVIATIONS

DRAWING SYMBOLS

MATERIAL LEGEND

GENERAL NOTES

AB	ANCHOR BOLT	ID	INSIDE DIAMETER
ACT	ACOUSTICAL CEILING TILE	INSUL	INSULATION
A.F.F.	ABOVE FINISHED FLOOR	INV	INVERT
<	ANGLE	JAN	JANITOR
ALUM	ALUMINUM	JST	JOIST
@	AT	MAX	MAXIMUM
BLKG	BLOCKING	MECH	MECHANICAL
BLDG	BUILDING	MFR	MANUFACTURER
BM	BENCH MARK	MIN	MINIMUM
B/O	BY OTHERS	MISC	MISCELLANEOUS
BRG	BEARING	MO	MASONRY OPENING
CLG	CEILING	MRGWB	MOISTURE RESISTANT GWB
CL	CENTER LINE	MTD.	MOUNTED
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CMU	CONC. MASONRY UNIT	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONT	CONTINUOUS	OD	OUTSIDE DIAMETER
CRS.	COURSES	OPNG	OPENING
DBL	DOUBLE	PL	PROPERTY LINE
DEMO	DEMOLITION	PLAM	PLASTIC LAMINATE
DIA	DIAMETER	PLYWD	PLYWOOD
DN	DOWN	PM&E	PLUMBING, MECHANICAL, AND ELECT.
DS	DOWN SPOUT	PREFAB	PREFABRICATED
DWG	DRAWING	PT	PRESSURE TREATED
EA	EACH	R	RADIUS
EJ	EXPANSION JOINT	REQ'D	REQUIRED
ELEC	ELECTRICAL	REV	REVISION
ELEV	ELEVATION	RO	ROUGH OPENING
EQ	EQUAL	SAN	SANITARY
EQUIP	EQUIPMENT	SF	SQUARE FOOT
EXT	EXTERIOR	SHTHG	SHEATHING
EXIST	EXISTING	SIM	SIMILAR
FE	FIRE EXTINGUISHER	SQ	SQUARE
FD	FLOOR DRAIN	STL	STEEL
FFE	FINISH FLOOR ELEVATION	SS	STAINLESS STEEL / SANITARY SEWER
FF&E	FURNITURE FIXTURES & EQUIPMENT	TEMP	TEMPORARY
FLR	FLOOR	T.O.F.	TOP OF FOOTING
FT	FOOT/FEET	T.O.J.	TOP OF JOIST
GA	GAUGE	T.O.S.	TOP OF STEEL
GALV	GALVANIZED	T.O.W.	TOP OF WINDOW
GWB	GYPSUM WALL BOARD	TYP.	TYPICAL
GYP	GYPSUM	UON	UNLESS OTHERWISE NOTED
HB	HOSE BIBB	VERT	VERTICAL
HDW	HARDWARE	WWM	WELDED WIRE MESH
HM	HOLLOW METAL	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HVAC	HEATING VENTILATION & AIR COND.	WD	WOOD

DETAIL #	1'	A-100	ELEVATION REFERENCE
DETAIL #	1'	A-100	SECTION MARK
DETAIL #	1'	A-600	MULTIPLE ELEVATION REF.
DETAIL #	3'	A-600	SECTION MARK
DETAIL #	1'	A-100	ENLARGED PLAN/DETAIL
NAME	102		ROOM NAME / NUMBER
	112		DOOR NUMBER
	W1		WINDOW TYPE
	1		REVISION NUMBER
	B2		TEST BORING
			SPOT ELEVATION
	W1		WALL TYPE

BATT INSULATION
BRICK
COMPACTED FILL
CMU
DRYWALL OR PLASTER
CONCRETE
FINISH CARPENTRY
GRAVEL
PLYWOOD
RIGID INSULATION
ROUGH CARPENTRY
STEEL
UNDISTURBED EARTH

- DO NOT SCALE DRAWINGS. DIRECT DIMENSIONAL DISCREPANCIES AND QUESTIONS TO THE ARCHITECT.
- DOOR ROUGH OPENINGS TO LOCATED 6" OFF ADJACENT PARTITIONS UNLESS OTHERWISE NOTED. FINAL INSTALL SHOULD HAVE 4" OF GWB BETWEEN ADJACENT PARTITION AND DOOR FRAME.
- VERIFY DIMENSIONS IN THE FIELD AS REQUIRED TO COORDINATE THE WORK.
- PROVIDE BLOCKING, ANCHORS AND MOUNTING ACCESSORIES AS NECESSARY FOR PROPER INSTALLATION OF CASEWORK, TELEVISIONS, TOILET ACCESSORIES, HANDRAILS, OR OTHER WALL MOUNTED FIXTURES SHOWN ON THESE DRAWINGS.
- WHERE A DETAIL IS INDICATED AS TYPICAL, PROVIDE THE WORK INDICATED AT ALL SIMILAR OR APPLICABLE LOCATIONS.
- ARCHITECTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS FOR THE PROJECT. DISCREPANCIES BETWEEN DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- ALL MILLWORK DIMENSIONS SHALL BE FIELD VERIFIED.
- PROVIDE SIGNAGE AS REQUIRED BY CODE.
- ALL DIMENSIONS SHOWN ON THE PLAN ARE FROM FACE OF STUD TO FACE OF STUD UNLESS OTHERWISE NOTED. MASONRY WALLS ARE DIMENSIONED FACE OF MASONRY TO FACE OF MASONRY.
- DIMENSIONS NOTED "CLEAR" ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS OTHERWISE NOTED. THEY ARE NOT TO BE ADJUSTED WITHOUT APPROVAL OF THE ARCHITECT.
- WHERE A "MIN" DIMENSION IS INDICATED ON THE PLANS, THE G.C. WILL VERIFY THAT THE DIMENSION CAN BE ACHIEVED BEFORE PROCEEDING WITH THE WORK. IF NOT, G.C. SHALL NOTIFY THE ARCHITECT OF THE DISCREPANCY.
- PAINT ALL STEEL DOOR AND WINDOW LINTELS.
- VERIFY LEVELNESS OF ALL SUB-FLOORS PRIOR TO INSTALLATION OF FINISH FLOOR MATERIALS.
- PROVIDE CONTROL JOINTS A 30'-0" O.C. MAXIMUM FOR ALL GWB WALLS.
- PROVIDE CONTROL JOINTS FOR GWB CEILINGS EXCEEDING 2500 S.F UNLESS OTHERWISE SHOWN ON THE PLAN.
- PROVIDE 3/4" 4X8 SHEET OF FIRE RETARDANT TREATED PLYWOOD AT ALL ELECTRICAL AND TELEPHONE CLOSETS. REFER TO ELECTRICAL AND TELECOM DRAWINGS FOR EXACT LOCATIONS.

ESENSOY MEDICAL CENTER
800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS					
	1	2	3	4	5
	7	2	26	correct	during pricing

PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

COVER SHEET

G-100

APPENDIX B
2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2-Family Dwellings and Townhouses)

Name/Project: ESENSOY MEDICAL CENTER - SHELL BLDG
Address: 800 HWY NC 24/87, CAMERON, NORTH CAROLINA Zip Code
Owner/Authorized Agent: JULIANNE HARRELSON Phone 910.876.3699 E-Mail jcharchitect25@gmail.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County HARNETT ☐ State

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE	E-MAIL
Architectural:	JCH ARCHITECTURE PLLC	JULIANNE HARRELSON	17584	910.876.3699	jcharchitect25@gmail.com
Civil:	GEORGE M. ROSE	GEORGE ROSE	11315	910.485.5822	george@gmrpe.com
Electrical:	COASTAL PLAINS ENG	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Fire Alarm:	COASTAL PLAINS ENG	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Plumbing:	COASTAL PLAINS ENG	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Mechanical:	COASTAL PLAINS ENG	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Sprinkler-Standpipe:					
Structural:					
Retaining Walls > 5' High:					
Other:					

(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior design, etc.)

2018 NC BUILDING CODE FOR: ☐ New Building ☐ Addition ☐ Renovation ☐ 1st Time Interior Completion
☒ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and req.
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Historic Property
(Check all that apply) ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of use

CONSTRUCTED: (Date) _____ CURRENT OCCUPANCY (S): (Ch.3) _____
RENOVATED: (Date) _____ PROPOSED OCCUPANCY (S): (Ch.3) _____

RISK CATEGORY (Table 1904.5): CURRENT: ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
☐ I-B ☒ II-B ☐ III-B ☐ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE:	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
FLOOR			
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		11,500 S.F.	11,500 S.F.
Basement			
TOTAL		11,500 S.F.	11,500 S.F.

Occupancy: ALLOWABLE AREA
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☒ X
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I 1 2
☐ I-2 ☐ I 1 2
☐ I-3 ☐ I 1 2 3 4 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-Pile ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility & Miscellaneous ☐

Accessory Occupancy Classification(s):
Incidental Uses (Table 509)
Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):

Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: _____
☐ Non-Separated Use (508.3)
☐ Separated Use (508.3.3)

The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$x \quad + \quad x \quad = \quad x \quad + \quad x \quad = \quad x \quad \leq \quad 1.00$$

CONTINUED ALLOWABLE AREA					
STORY NUMBER	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	B-BUSINESS	11,500	23,000	-	23,000

- Frontage area increase from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = X ____ (F).
b. Total Building Perimeter = X ____ (P).
c. Ratio (F/P) = X ____ (F/P).
d. W = Minimum width of public way = X ____ (W).
e. Percent of frontage increase $I_1 = 100(F/P - 0.25) W/30 =$ ____ %
- Unlimited area applicable under conditions of Section 507
- Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
- The maximum area of open parking garages must comply with 406.5.4.
- Frontage increase is based on the unsprinkled area value in Table 506.2

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Type of Construction	Type IIB	Type IIB	
Building Height in Feet (Table 504.3) ²	Feet 55'	28'-4"	
Bldg Height in Stories (Table 504.4) ³	Stories 3	Stories 1	

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS						
BUILD ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQD	PROVIDED w/ REDUCTION	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses						
Bearing Walls						
Exterior						
North	NA	NA				
East	NA	NA				
West	NA	NA				
South	NA	NA				
Interior	NA	NA				
Nonbearing walls and partitions						
Exterior						
North	>30'	0				
East	>30'	0				
West	>30'	0				
South	>30'	0				
Interior walls & partitions						
Floor construction						
Including supporting beams and joists	0					
Floor/Ceiling Assembly	0					
Columns Supporting Floors	0					
Roof construction including supporting beams and joists	0					
Roof/Ceiling Assembly	0					
Columns Supporting Roof	0					
Shafts Enclosure - Exit	NA					
Shafts Enclosure - Other	NA					
Corridor Separation	NA					
Occupancy/Fire Barrier Separation	NA					
Party/Fire Wall Separation	NA					
Smoke Barrier Separation	NA					
Tenant/Dwelling Unit/Sleeping Unit Separation	NA					
Incidental Use Separation	NA					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLAN (%)
> 30'-0" ALL SIDES			

****SEE TENANT UPFITS****

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: ☒ No ☐ Yes
Exit Signs: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial
Carbon Monoxide Detection: ☒ No ☐ Yes
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: NA FOR SHELL BLDG - SEE TENANT UPFITS

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not shown on Site Plan)
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distance (1013)
- Common path of travel distances (Table 1006.2.1 & 1006.3.2(1))
- Dead end lengths (1020.4)
- Clear exits widths for each exit door
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- The square footages of each fire area (902)
- The square footages of each smoke compartment for Occupancy Classification 1-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL OF UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NA							

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
PARKING LOT	50	67	2	1	3
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			LAVATORIES			SERVICE SINK	DRINKING FOUNTAINS
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		
NA SHELL BLDG								

SPECIAL APPROVALS

Special approvals: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

2018 North Carolina State Administrative Code and Policies

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

EXISTING BUILDING: ☐ No ☐ Yes (The remainder of this section is not applicable)

EXISTING BUILDING: ☐ No ☐ Yes (Provide code or statutory reference):

CLIMATE ZONE: ☐ 3A ☒ 4A ☐ 5A

METHOD OF COMPLIANCE: Energy Code ☐ Performance ☒ Prescriptive
AHRAE 90.1 ☐ Performance ☐ Prescriptive
(if "Other" specify source here)

THERMAL ENVELOPE:

Roof/Ceiling Assembly (each assembly)

Description of assembly METAL DECK W/ R-30 CONTINUOUS INSULATION & MEMBRANE ROOF

U-Value of total assembly U 0.032

R-Value of insulation R-30

Skylights in each assembly NA

U-Value of skylight

total square footage of skylights in each assembly

Exterior walls (each assembly)

Description of assembly 6" METAL STUDS, R21 BATT INSULATION & R10 CONT. RIGID INSULATION

U-Value of total assembly U 0.03

R-Value of insulation R 21 + R10

Openings (windows or doors with glazing)

U-Value of assembly U 0.45 OR BETTER

Solar heat gain coefficient U 0.25 OR BETTER

projection factor VARIES

Door R-Values U 0.77 OR BETTER

Walls adjacent to unconditioned space (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Openings (windows or doors with glazing)

U-Value of assembly

Solar heat gain coefficient

projection factor

Door R-Values

Walls below grade (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Floors over unconditioned space (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Floor slab on grade

Description of assembly 4" CONCRETE SLAB w/R-15 INSUL

U-Value of total assembly .067

R-Value of insulation

Horizontal/vertical requirements

Slab heated

STRUCTURAL SUMMARY

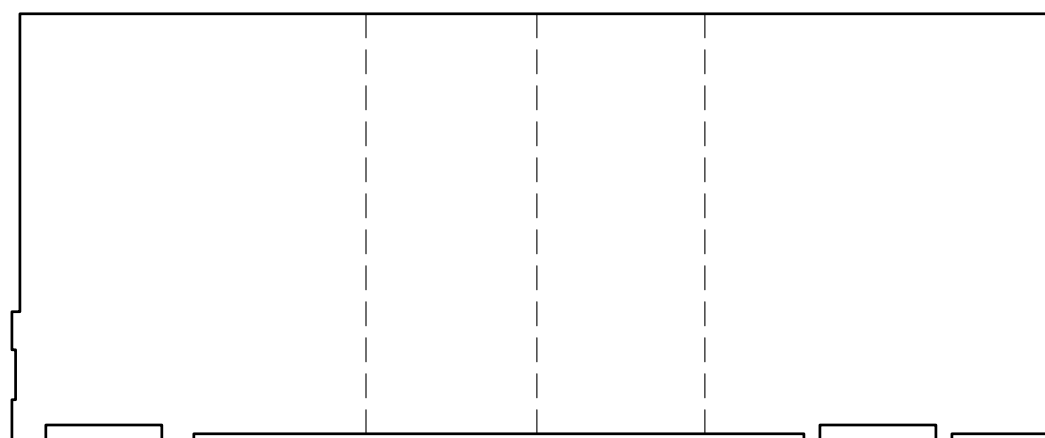
REFERENCE STRUCTURAL DRAWING SHEET S401 FOR STRUCTURAL DESIGN LOADS AND INFORMATION

MECHANICAL SUMMARY

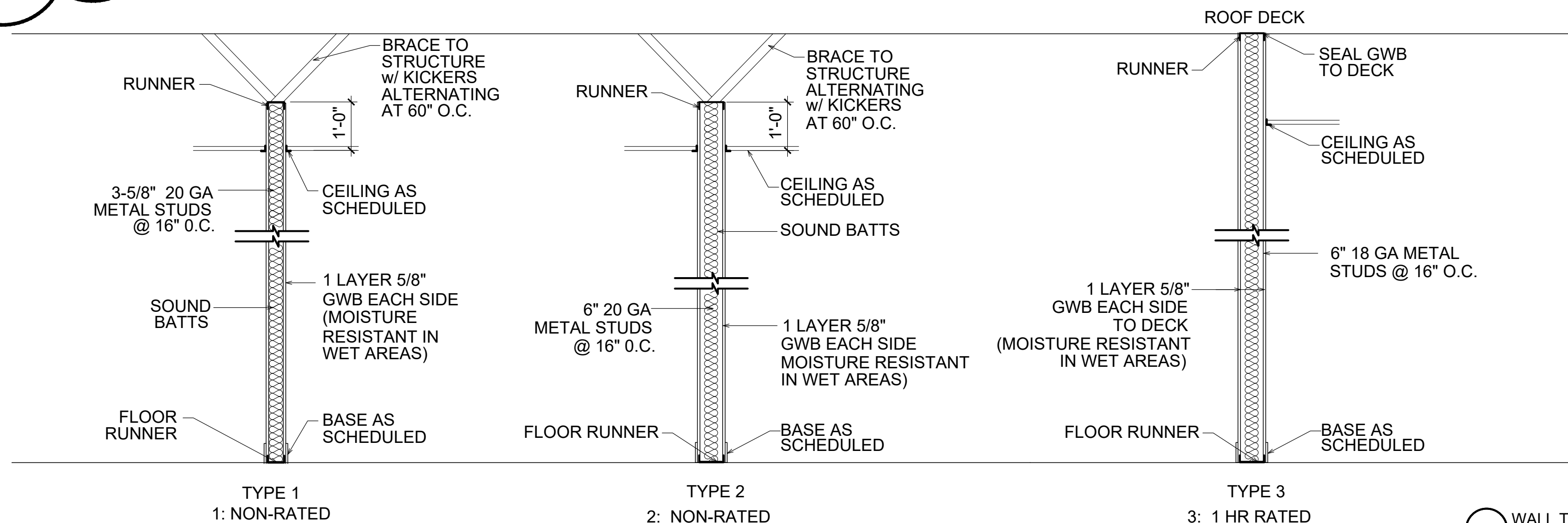
REFERENCE MECHANICAL DRAWING SHEET M1 FOR MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

ELECTRICAL SUMMARY

REFERENCE ELECTRICAL DRAWING SHEET E4 FOR ELECTRICAL SYSTEMS AND EQUIPMENT



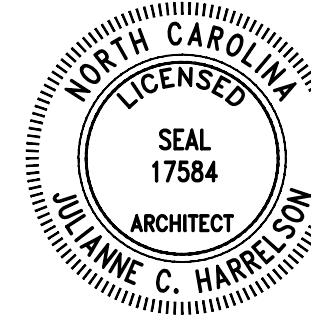
KEY PLAN
BUILDING SHELL



1 WALL TYPES
NOT TO SCALE



676 OLD HWY 41
BLACKSBORO, NORTH CAROLINA 28320
PHONE: (910) 876-3699
jcharchitect25@gmail.com



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ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS	
1	7.2.26 correct during pricing
2	
3	
4	
5	

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

SHELL BLDG

BUILDING CODE
SUMMARY

G-101a

APPENDIX B
2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2-Family Dwellings and Townhouses)

Name/Project: ESENSOY MEDICAL CENTER - VANILLA SHELL TWO
Address: 800 HWY NC 24/87, CAMERON, NORTH CAROLINA Zip Code
Owner/Authorized Agent: JULIANNE HARRELSON Phone 910.876.3699 E-Mail jcharchitect25@gmail.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County, HARNETT ☐ State

DESIGNER FIRM NAME LICENSE # TELEPHONE E-MAIL
Architectural: JCH ARCHITECTURE PLLC JULIANNE HARRELSON 17584 910.876.3699 jcharchitect25@gmail.com
Civil: GEORGE M. ROSE GEORGE ROSE 11315 910.485.5822 george@gmrpe.com
Electrical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Fire Alarm: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Plumbing: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Mechanical: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Sprinkler-Standpipe: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Structural: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Retaining Walls > 5' High: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
Other: COASTAL PLAINS ENG CHRISTOPHER LOCKLEAR 20193 910.521.7213 coastalplainseng@gmail.com
(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior design, etc.)

2018 NC BUILDING CODE FOR: ☐ New Building ☐ Addition ☐ Renovation ☒ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and req.
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Historic Property
(Check all that apply) ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of use

CONSTRUCTED (Date): CURRENT OCCUPANCY (S) (Ch.3):
RENOVATED (Date): PROPOSED OCCUPANCY (S) (Ch.3):

RISK CATEGORY (Table 1604.5): CURRENT: ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(Check all that apply) ☐ I-B ☒ II-B ☐ III-B ☐ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

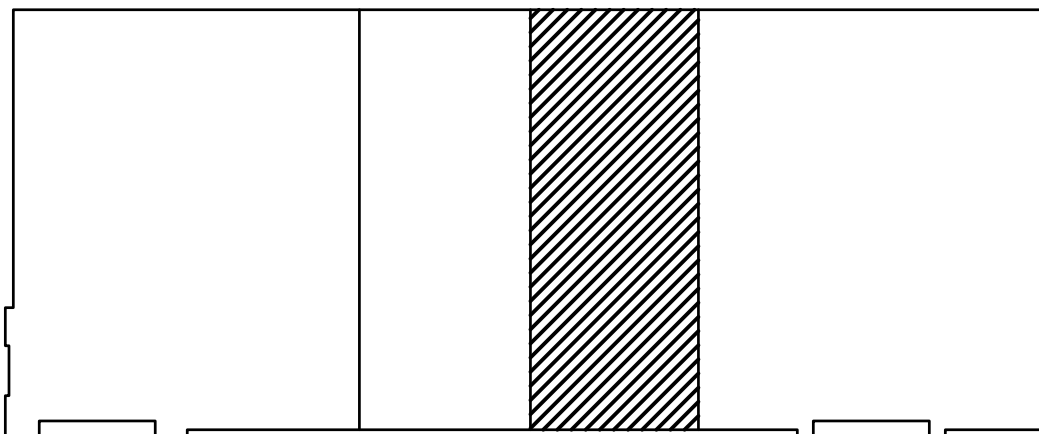
GROSS BUILDING AREA TABLE:		
FLOOR	EXISTING BLDG	TENANT SPACE
3rd Floor		
2nd Floor		
Mezzanine		
1st Floor	11,500 S.F.	1872 S.F.
Basement		
TOTAL	11,500 S.F.	1872 S.F.

Occupancy:
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☒ X
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-Pile ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility & Miscellaneous ☐

Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):

Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception:
☐ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.3.3)
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$x + x = x + x = x \leq 1.00$$



KEY PLAN
VANILLA SHELL 2

CONTINUED ALLOWABLE AREA					
STORY NUMBER	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	B-VANILLA SHELL	1872	23,000	-	23,000
1	B-BUSINESS	9,628	23,000	-	23,000

- Frontage area increase from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = X (F).
b. Total Building Perimeter = X (P).
c. Ratio (F/P) = X (F/P).
d. W = Minimum width of public way = X (W).
e. Percent of frontage increase $(I_p = 100(F/P - 0.25) W/30 = \text{ } \%$
2. Unlimited area applicable under conditions of Section 507
3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
4. The maximum area of open parking garages must comply with 406.5.4.
5. Frontage increase is based on the unspinkled are value in Table 506.2

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Type of Construction	Type IIB	Type IIB	
Building Height in Feet (Table 504.3) ²	Feet 55'	28'-4"	
Bldg Height in Stories (Table 504.4) ³	Stories 3	Stories 1	

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
2. The maximum height of air traffic control towers must comply with Table 412.3.1.
3. The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS						
BUILD ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	PROVIDED (w/ REDUCTION)	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses						
Bearing Walls						
Exterior						
North	NA	NA				
East	NA	NA				
West	NA	NA				
South	NA	NA				
Interior	NA	NA				
Nonbearing walls and partitions						
Exterior						
North	>30'	0				
East	>30'	0				
West	>30'	0				
South	>30'	0				
Interior walls & partitions						
Floor construction		0				
Including supporting beams and joists		0				
Floor/Ceiling Assembly		0				
Columns Supporting Floors		0				
Roof construction including supporting beams and joists		0				
Roof/Ceiling Assembly		0				
Columns Supporting Roof		0				
Shafts Enclosure - Exit	NA	NA				
Shafts Enclosure - Other	NA	NA				
Corridor Separation	NA	NA				
Occupancy/Fire Barrier Separation	NA	NA				
Party/Fire Wall Separation	NA	NA				
Smoke Barrier Separation	NA	NA				
Tenant/Dwelling Unit/Sleeping Unit Separation	1 HR	1 HR	G-103	U 419		
Incidental Use Separation	NA					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLAN (%)
> 30'-0" ALL SIDES			

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial
Carbon Monoxide Detection: ☒ No ☐ Yes
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-LSI

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not shown on Site Plan)
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distance (1013)
- Common path of travel distances (Table 1006.2.1 & 1006.3.2(1))
- Dead end lengths (1020.4)
- Clear exits widths for each exit door
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- The square footages of each fire area (202)
- The square footages of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL OF UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NA							

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED				TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	15' ACCESS AISLE	8' ACCESS AISLE		
LOT FOR SHELL BLDG		67	2		1		3
TOTAL							

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			LAVATORIES			SERVICE SINK	DRINKING FOUNTAINS
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		
B- VANILLA SHELL 2 - 19			1			1	-	-

SPECIAL APPROVALS

Special approvals: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

2018 North Carolina State Administrative Code and Policies

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

EXISTING BUILDING: ☐ No ☒ Yes (The remainder of this section is not applicable)

EXISTING BUILDING: ☐ No ☐ Yes (Provide code or statutory reference):

CLIMATE ZONE: ☐ 3A ☒ 4A ☐ 5A
METHOD OF COMPLIANCE: Energy Code ☐ Performance ☒ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE:

Roof/Ceiling Assembly (each assembly)

Description of assembly

U-Value of total assembly

R-Value of insulation

Skylights in each assembly

U-Value of skylight

total square footage of skylights in each assembly

Exterior walls (each assembly)

Description of assembly

U-Value of total assembly

R-Value of insulation

Openings (windows or doors with glazing)

U-Value of assembly

Solar heat gain coefficient

projection factor

Door R-Values

Walls adjacent to unconditioned space (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Openings (windows or doors with glazing)

U-Value of assembly

Solar heat gain coefficient

projection factor

Door R-Values

Walls below grade (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Floors over unconditioned space (each assembly)

Description of assembly NA

U-Value of total assembly

R-Value of insulation

Floor slab on grade

Description of assembly

U-Value of total assembly

R-Value of insulation

Horizontal/vertical requirements

Slab heated

STRUCTURAL SUMMARY

REFERENCE STRUCTURAL DRAWING SHEET NA FOR STRUCTURAL DESIGN LOADS AND INFORMATION

MECHANICAL SUMMARY

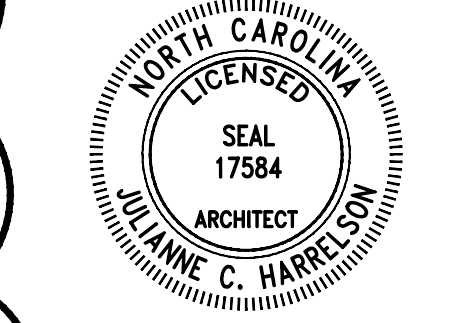
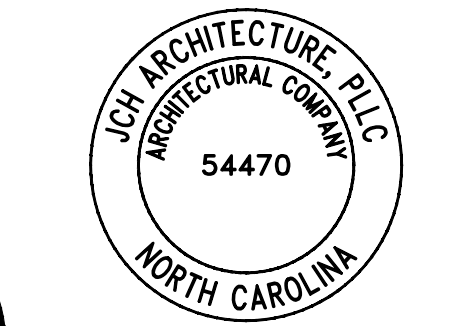
REFERENCE MECHANICAL DRAWING SHEET M1 FOR MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

ELECTRICAL SUMMARY

REFERENCE ELECTRICAL DRAWING SHEET E4 FOR ELECTRICAL SYSTEMS AND EQUIPMENT



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ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS

1	7.2.26 correct, during pricing
2	
3	
4	
5	
6	

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

VANILLA SHELL 2

BUILDING CODE
SUMMARY

G-101c

APPENDIX B
2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2-Family Dwellings and Townhouses)

Name/Project: ESENSOY MEDICAL CENTER - PEDIATRIC OFFICE
Address: 800 HWY NC 2487, CAMERON, NORTH CAROLINA Zip Code _____
Owner/Authorized Agent: JULIANNE HARRELSON Phone 910.876.3699 E-Mail jcharchitect25@gmail.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County HARNETT ☐ State

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE	E-MAIL
Architectural:	JCH ARCHITECTURE PLLC	JULIANNE HARRELSON	17584	910.876.3699	jcharchitect25@gmail.com
Civil:	GEORGE M. ROSE	GEORGE ROSE	11315	910.485.5822	george@gmrpe.com
Electrical:	COASTAL PLAINS ENG.	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Fire Alarm:					
Plumbing:	COASTAL PLAINS ENG.	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Mechanical:	COASTAL PLAINS ENG.	CHRISTOPHER LOCKLEAR	20193	910.521.7213	coastalplainseng@gmail.com
Sprinkler-Standpipe:					
Structural:					
Retaining Walls > 5' High:					
Other:					

(Other* should include firms and individuals such as truss, precast, pre-engineered, interior design, etc.)

2018 NC BUILDING CODE FOR: ☐ New Building ☐ Addition ☐ Renovation ☒ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and req.
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Historic Property
(Check all that apply) ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of use

CONSTRUCTED: (Date) _____ CURRENT OCCUPANCY (S): (Ch.3) _____
RENOVATED: (Date) _____ PROPOSED OCCUPANCY (S): (Ch.3) _____
RISK CATEGORY (Table 1604.5): CURRENT: ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(Check all that apply) ☐ I-B ☒ II-B ☐ III-B ☐ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE:	EXISTING (SQ FT)	NEW (SQ FT)
FLOOR		
3rd Floor		
2nd Floor		
Mezzanine		
1st Floor	11,500 S.F.	3795 S.F.
Basement		
TOTAL	11,500 S.F.	3795 S.F.

Occupancy: ☐ Assembly ☒ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☐ Business ☐ Educational ☐ Factory ☐ F-1 Moderate ☐ F-2 Low ☐ Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
☐ Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 ☐ I-5
☐ Mercantile ☐ Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
☐ Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-Pile ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility & Miscellaneous ☐
Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509) _____
Special Uses (Chapter 4 - List Code Sections): _____
Special Provisions: (Chapter 5 - List Code Sections): _____

Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: _____
☐ Non-Separated Use (508.3) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.3.3) See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$x \quad + \quad x \quad = \quad x \quad + \quad x \quad = \quad x \leq 1.00$$

CONTINUED ALLOWABLE AREA					
STORY NUMBER	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	B-PEDIATRIC OFFICE	3795	23,000	-	23,000
1	B-BUSINESS	7705	23,000	-	23,000

- Frontage area increase from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = X (F).
b. Total Building Perimeter = X (P).
c. Ratio (F/P) = X (F/P).
d. W = Minimum width of public way = X (W).
e. Percent of frontage increase $[1 - 100(F/P - 0.25)W/30] = \text{ } \%$
2 Unlimited area applicable under conditions of Section 507
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
4 The maximum area of open parking garages must comply with 406.5.4.
5 Frontage increase is based on the unsprinkled area value in Table 506.2

ALLOWABLE HEIGHT			
Type of Construction	ALLOWABLE Type IIB	SHOWN ON PLANS Type IIB	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	Feet 55'	28'-4"	
Bldg Height in Stories (Table 504.4) ³	Stories 3	Stories 1	

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

BUILD ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
		REQ'D	PROVIDED (w/ REDUCTION)				
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North	NA	NA					
East	NA	NA					
West	NA	NA					
South	NA	NA					
Interior	NA	NA					
Nonbearing walls and partitions							
Exterior							
North	>30'	0					
East	>30'	0					
West	>30'	0					
South	>30'	0					
Interior walls & partitions							
Floor construction including supporting beams and joists	0						
Floor/Ceiling Assembly	0						
Columns Supporting Floors	0						
Roof construction including supporting beams and joists	0						
Roof/Ceiling Assembly	0						
Columns Supporting Roof	0						
Shafts Enclosure - Exit	NA						
Shafts Enclosure - Other	NA						
Corridor Separation	NA						
Occupancy/Fire Barrier Separation	NA						
Party/Fire Wall Separation	NA						
Smoke Barrier Separation	NA						
Tenant/Dwelling Unit/Sleeping Unit Separation	1 HR	1 HR	G-103	U 419			
Incidental Use Separation	NA						

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES > 30'-0" ALL SIDES	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLAN (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial
Carbon Monoxide Detection: ☒ No ☐ Yes
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-LS1

☒ Fire and/or smoke rated wall locations (Chapter 7).
NA ☐ Assumed and real property line locations (if not shown on Site Plan)
NA ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit access travel distance (1013)
☒ Common path of travel distances (Table 1006.2.1 & 1006.3.2(1))
☒ Dead end lengths (1020.4)
☒ Clear exits widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
NA ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
NA ☐ Location of doors with panic hardware (1010.1.10)
NA ☐ Location of doors with delayed egress locks and amount of delay (1010.1.9.7)
NA ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
NA ☐ Location of doors equipped with hold-open devices
NA ☐ Location of emergency escape windows (1030)
NA ☐ The square footages of each fire area (202)
NA ☐ The square footages of each smoke compartment for Occupancy Classification I-2 (407.5)
NA ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)							
TOTAL OF UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NA							

ACCESSIBLE PARKING (SECTION 1108)						
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 13' ACCESS AISLE	8' ACCESS AISLE	
PARKING LOT	50	67	2		1	3
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE		WATERCLOSETS				LAVATORIES			DRINKING FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	
B- PEDIATRIC OFF - 38	EXIST								
	NEW	1	1	1		1	1	1	1
	REQ'D	1	1	1		1	1	1	1

SPECIAL APPROVALS (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

2018 North Carolina State Administrative Code and Policies

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

EXISTING BUILDING: ☐ No ☒ Yes (The remainder of this section is not applicable)
EXISTING BUILDING: ☐ No ☐ Yes (Provide code or statutory reference): _____

CLIMATE ZONE: ☐ 3A ☒ 4A ☐ 5A
METHOD OF COMPLIANCE: Energy Code ☐ Performance ☒ Prescriptive
AHRAE 90.1 ☐ Performance ☐ Prescriptive
(if "Other" specify source here) _____

THERMAL ENVELOPE:
Roof/Ceiling Assembly (each assembly)
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____
Skylights in each assembly _____
U-Value of skylight _____
total square footage of skylights in each assembly _____
Exterior walls (each assembly)
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____
Openings (windows or doors with glazing)
U-Value of assembly _____
Solar heat gain coefficient _____
projection factor _____
Door R-Values _____
Walls adjacent to unconditioned space (each assembly)
Description of assembly NA
U-Value of total assembly _____
R-Value of insulation _____
Floor slab on grade
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____
Horizontal/vertical requirements _____
Slab heated _____

Floors over unconditioned space (each assembly)
Description of assembly NA
U-Value of total assembly _____
R-Value of insulation _____

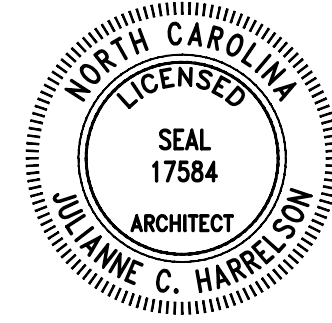
STRUCTURAL SUMMARY
REFERENCE STRUCTURAL DRAWING SHEET NA FOR STRUCTURAL DESIGN LOADS AND INFORMATION

MECHANICAL SUMMARY
REFERENCE MECHANICAL DRAWING SHEET M1 FOR MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

ELECTRICAL SUMMARY
REFERENCE ELECTRICAL DRAWING SHEET E4 FOR ELECTRICAL SYSTEMS AND EQUIPMENT



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ESENSOY MEDICAL CENTER

800 HWY NC 24187
CAMERON, NORTH CAROLINA

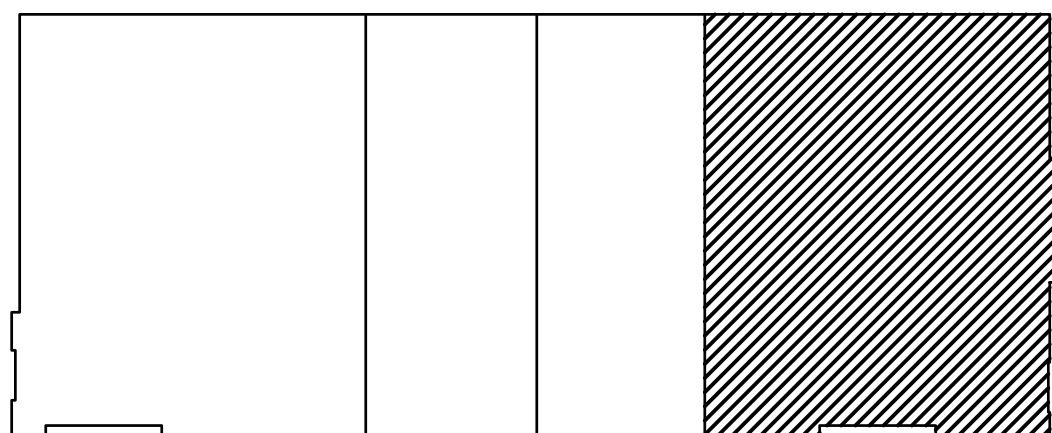
REVISIONS	DATE	DESCRIPTION
1	7.2.26	correct pricing
2		
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4		
5		

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY: _____

PEDIATRIC OFFICE

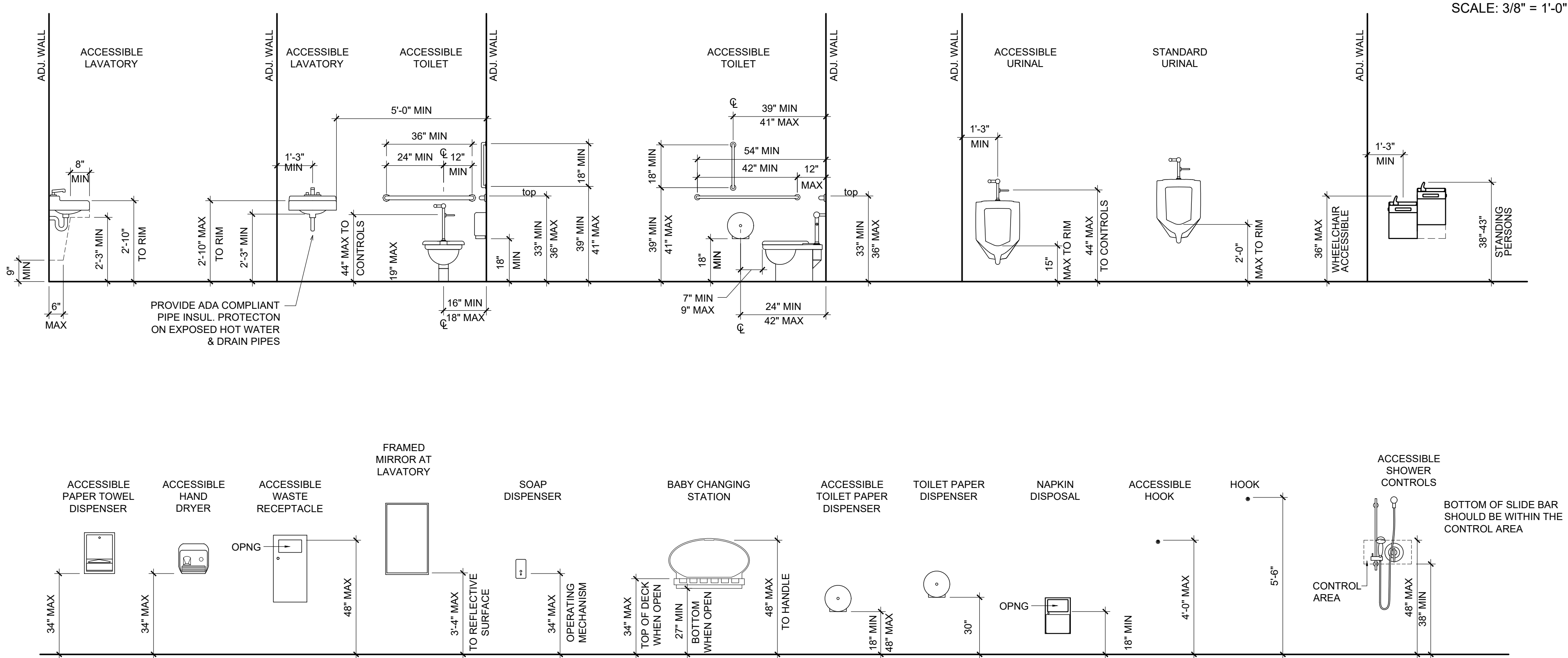
BUILDING CODE
SUMMARY

G-101d

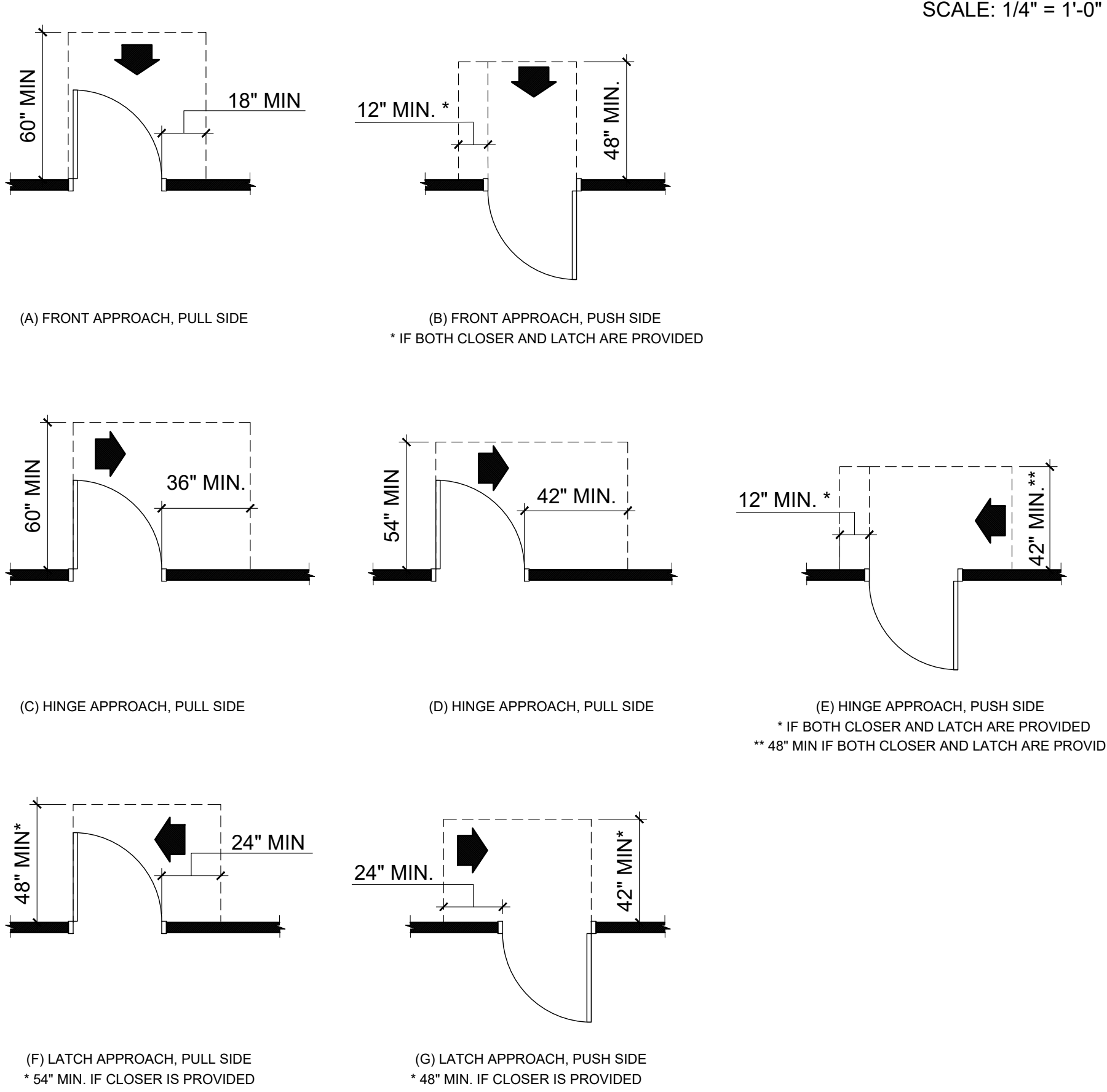


KEY PLAN
PEDIATRIC
OFFICE

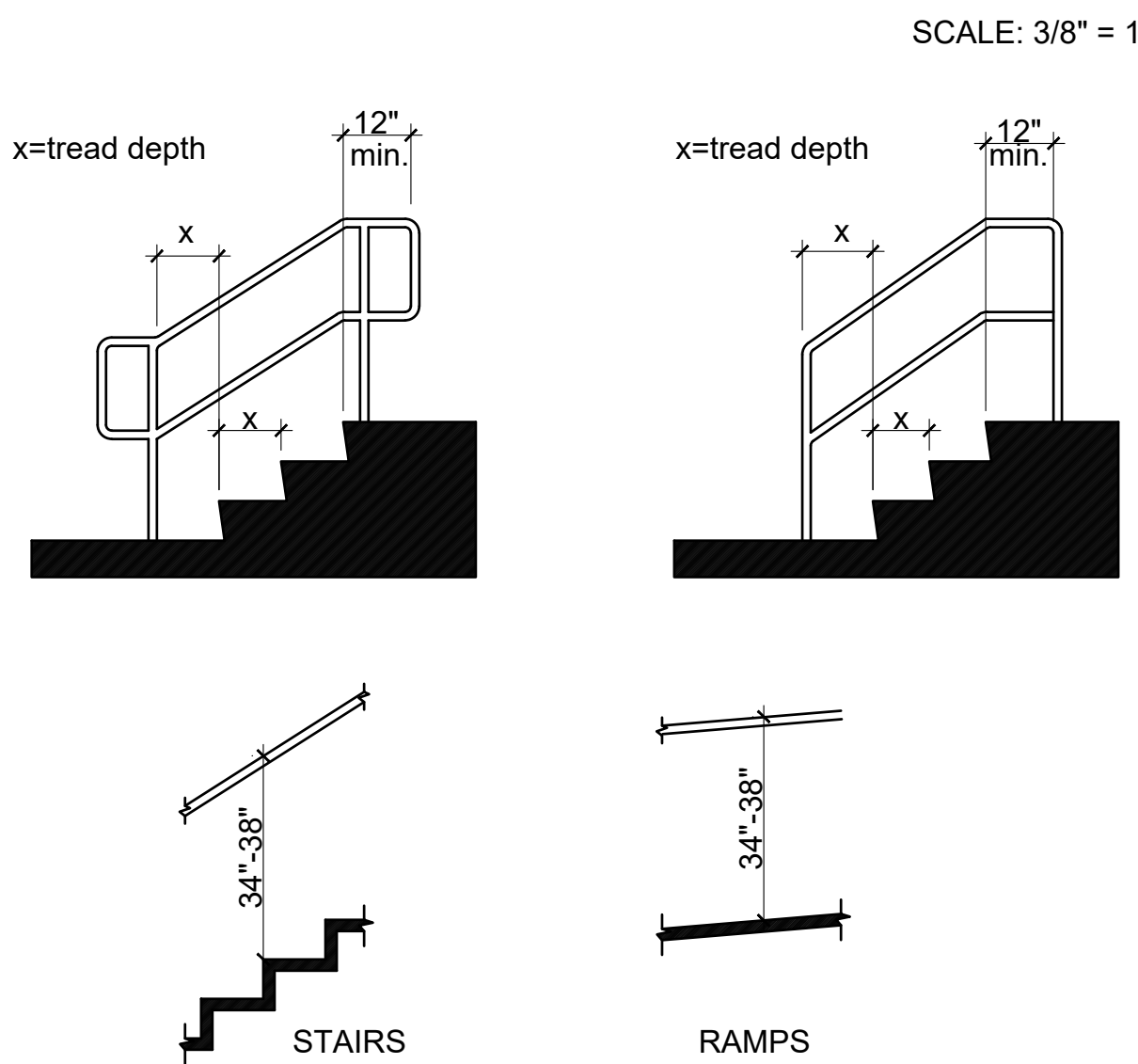
MOUNTING HEIGHTS



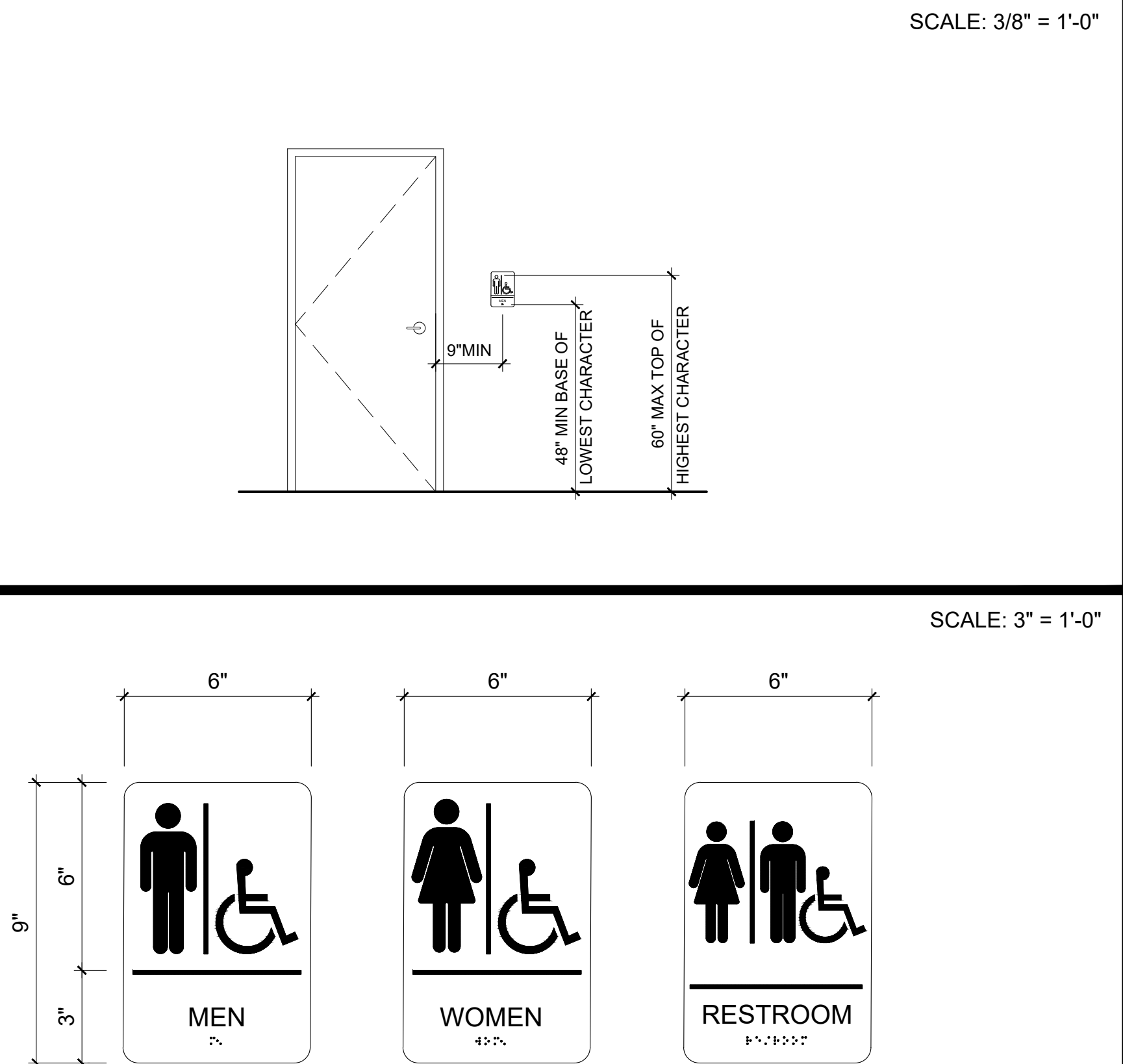
ACCESSIBLE CLEARANCES AT MANUAL SWINGING DOORS



ACCESSIBLE HANDRAILS



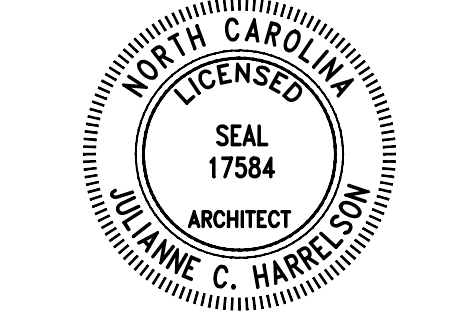
ACCESSIBLE SIGNAGE



- NOTES:
- CHARACTERS SHALL BE SANS SERIF.
 - CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND, OR DARK CHARACTERS ON A LIGHT BACKGROUND.
 - SIGNAGE SHALL MEET ALL OTHER REQUIREMENTS OF THE CURRENT ICC A117.1 ACCESSIBILITY CODE.
 - GENERAL CONTRACTOR TO PROVIDE ADA SIGNAGE AS REQUIRED.



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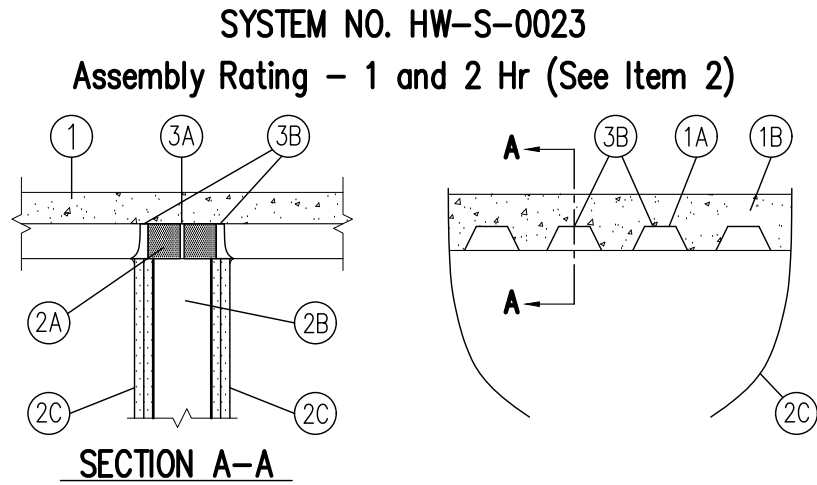
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ESENSOY MEDICAL CENTER
800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS
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PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

GENERAL INFORMATION

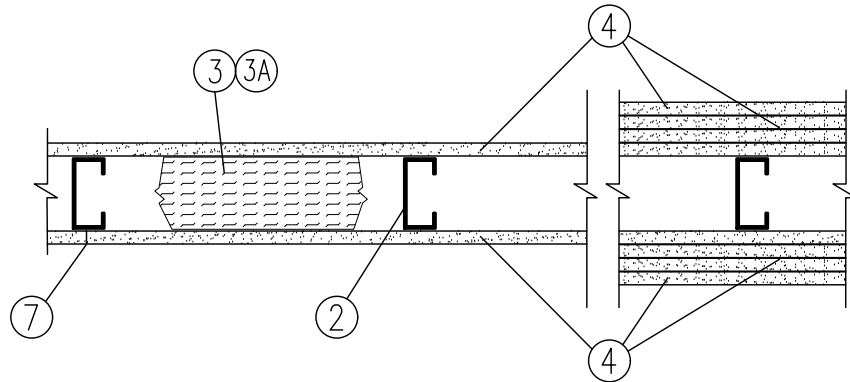


1. FLOOR ASSEMBLY – The fire rated fluted steel deck/concrete floor assembly shall be constructed of the materials and the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. STEEL FLOOR AND FORM UNITS * – Composite or noncomposite max 3 in. deep min. 22 galv or phos/painted fluted units. Adjacent units button-punched or welded together max 36 in. OC along side joints.
 - B. NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE – Min 2-1/2 in. thick concrete of the type, density and compressive strength detailed for the specific Floor-Ceiling Design described in the UL Fire Resistance Directory.
2. WALL ASSEMBLY – The 1 or 2 Hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. STEEL FLOOR AND CEILING RUNNERS – Floor and ceiling runners of wall assembly shall consist of min 25 ga galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with min 1-1/4 in. flanges. Ceiling runner secured to valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. OC.
 - B. STUDS – Min 3-1/2 in. wide by 1-1/4 in. deep corrosion protected min 25 MSG steel channels. Steel stud spacing not to exceed 24 in. OC.
 - C. GYPSUM BOARD * – 5/8 in. thick, 4 ft. wide square or tapered edges. Wallboard sheets installed vertically on both sides of stud framing with joints centered over studs. Wallboard to be butted tight to bottom of the steel deck. The gypsum wallboard type, thickness, number of layers and fastener types shall be as specified in the individual U400 Series Design in the UL Fire Resistance Directory.
3. JOINT SYSTEM – The joint system consist of a forming material and a fill material in the flutes of the steel floor units, as follows:
 - A. PACKING MATERIAL – Min 3-3/4 in. thickness of min 4.0 pcf mineral wool batt insulation, tightly packed into flutes of the steel floor units between the top of the ceiling runner and bottom of the steel floor units, and recessed from each surface of wall to accommodate the required thickness of fill material.
 - B. FILL, VOID OR CAVITY MATERIAL * – Min 3/8 in. thickness of fill material installed on each side of the wall in the flutes of the steel floor units. An additional min 3/8 in. bead of fill material to be installed at the wallboard/steel deck interface.

RECTORSEAL – Metacualk 835+

* Bearing the UL Classification Mark.

DESIGN NO. U419
Nonbearing Wall Rating
1,2,3 or 4 Hr (See Items 3 & 4)



1. FLOOR AND CEILING RUNNERS – (Not shown) – Channel shaped fabricated from 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. STEEL STUDS – Channel shaped fabricated from 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. BATTS AND BLANKETS* – (Required as indicated under Item 4) – Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.
- 3A. BATTS AND BLANKETS* – (Optional) – Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.
4. GYPSUM BOARD* – Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer/ 5/8 in. thick	Optional
1	2-1/2	1 layer/ 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer/ 3/4 in. thick	Optional
2	1-5/8	2 layer/ 1/2 in. thick	Optional
2	1-5/8	2 layer/ 5/8 in. thick	Optional
2	3-1/2	1 layer/ 3/4 in. thick	3 in.
3	1-5/8	3 layer/ 1/2 in. thick	Optional
3	1-5/8	2 layer/ 3/4 in. thick	Optional
3	3-1/2	3 layer/ 5/8 in. thick	Optional
4	1-5/8	4 layer/ 5/8 in. thick	Optional
4	1-5/8	4 layer – in. thick	Optional
4	2-1/2	2 layer/ 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY – 1/2 in. thick Type C, IP-X2, or IPC-AR; WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHX or ULTRACODE WRX.

UNITED STATES GYPSUM CO – 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHX or ULTRACODE WRX.

YESO PANAMERICANO S A DE C V – 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHX or ULTRACODE WRX.
- 4A. GYPSUM BOARD* – (As an alternate to Item 4) – 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5.

CANADIAN GYPSUM COMPANY – Type FRX

UNITED STATES GYPSUM CO – Type FRX

- 4B. GYPSUM BOARD* – (As an alternate to Item 4 and 4A) – 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (item 7) not required.

CANADIAN GYPSUM COMPANY – Type SHX
UNITED STATES GYPSUM CO – Type SHX
YESO PANAMERICANO S A DE C V – Type SHX

5. FASTENERS – (Not shown) – Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6).

Single-layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 12 in. OC when panels are applied vertically.

Two-layer systems: First layer – 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer – 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.

Three-layer systems: First layer – 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer – 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer – 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset min 6 in. from layer below.

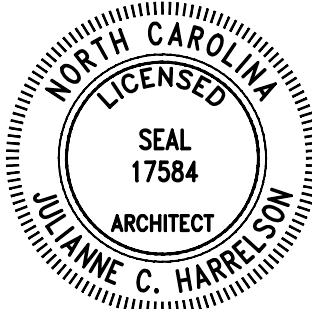
Four-layer systems: First layer – 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer – 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer – 2-1/4 in. long for 1/2 in.; or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer – 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
6. FURRING CHANNELS – (Optional, not shown, for single or double layer systems) Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type s-12 steel screws. Not for use with Item 4A.
7. JOINT TAPE AND COMPOUND – Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer panels.
8. CAULKING AND SEALANT* – (Optional, Not shown) – A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO – Type AS

* Bearing the UL Classification Mark.



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BLADENBORO, NORTH CAROLINA 28320
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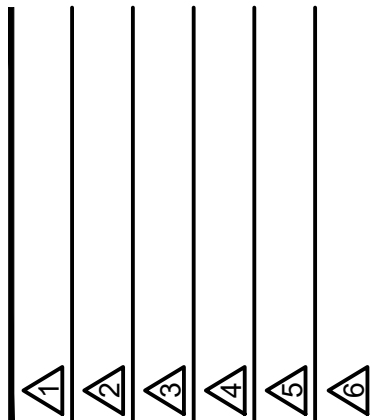


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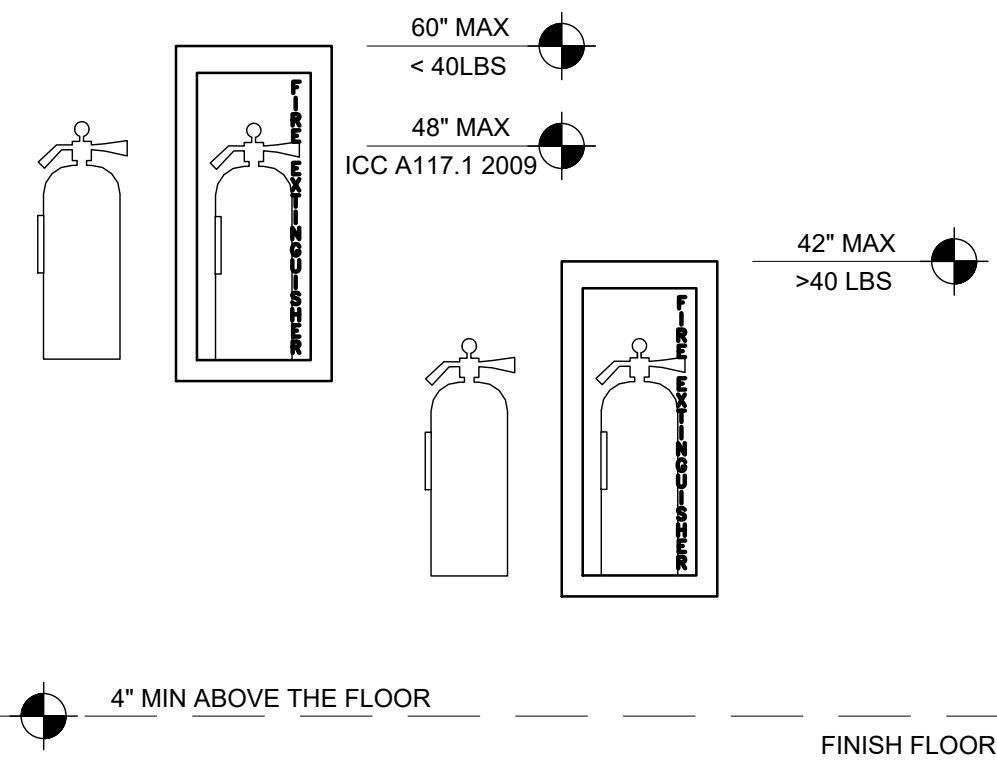
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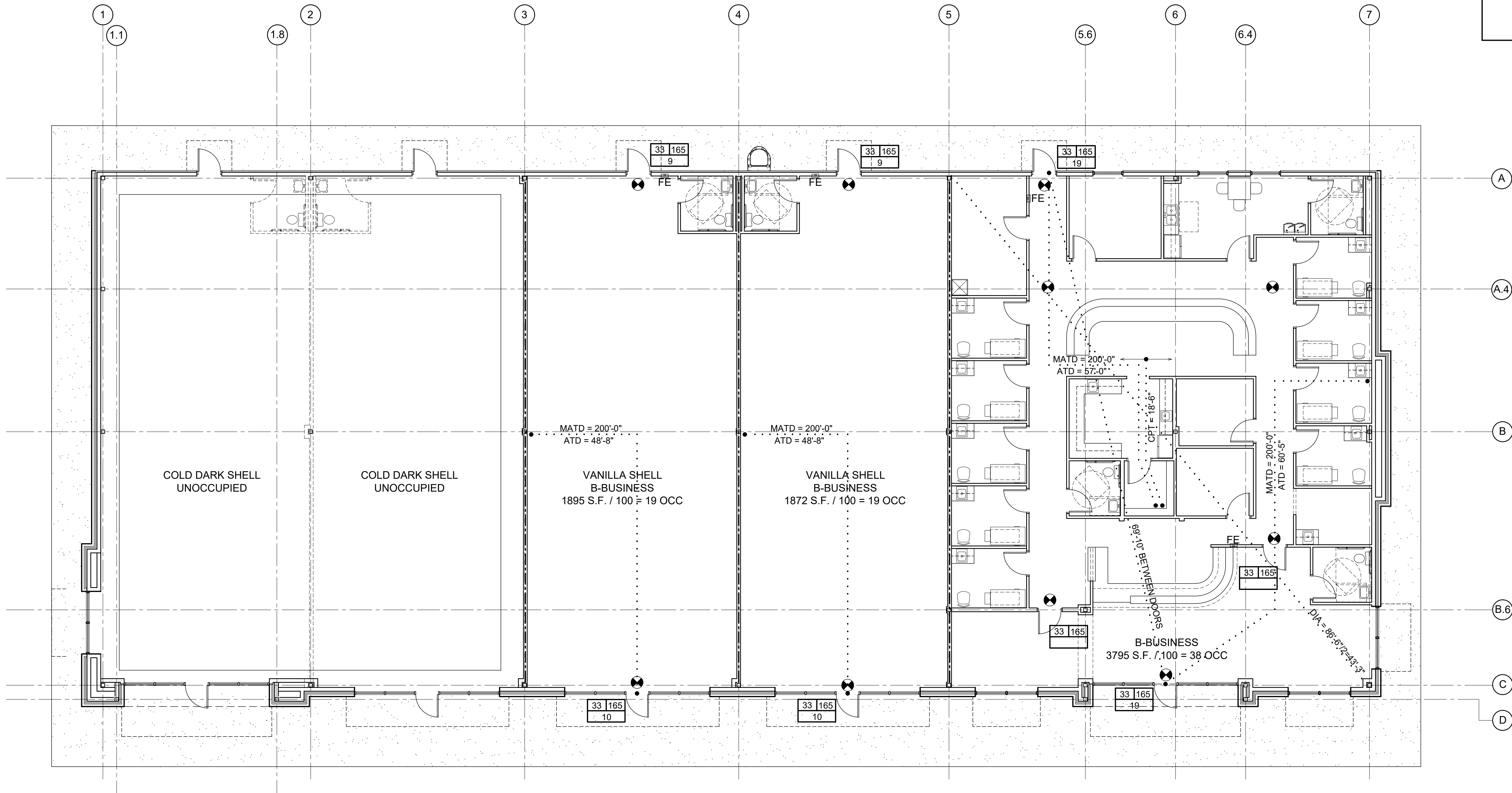
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G-103

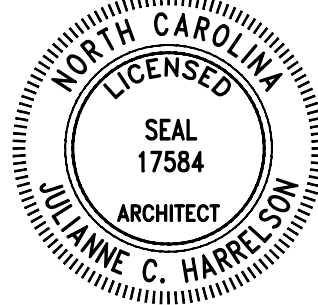


- NOTES:
- SEE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE EXTINGUISHERS.
 - PROVIDE RATED CABINET ENCLOSURE IN ACCORDANCE WITH RATED WALL CONSTRUCTION.
 - MAX REACH HEIGHT IS 48" TO THE TOP OF THE HANDLE PER ICC-A117.1-2009.

1 FIRE EXTINGUISHER MOUNTING HTS.
N.T.S.



LIFE SAFETY LEGEND	
	PANIC OR ELECTROMAGNETIC LOCK
	STAIR/DOOR EGRESS WIDTH
	STAIR/DOOR EXIT CAPACITY ANTICIPATED LOAD
	CALCULATED # OF OCCUPANTS LEAVING
	MAX COMMON PATH OF TRAVEL
	MAX ALLOWABLE TRAVEL DIST. ACTUAL TRAVEL DISTANCE
	DEAD END CORRIDOR
	1 HOUR RATED
	2 HOUR RATED
	4 HOUR RATED
	SEMI-RECESSED FIRE EXT. CABINET
	WALL HUNG FIRE EXT.
	EMERGENCY LIGHTS
	EXIT LIGHT
	EXIT LIGHT/EMERGENCY LIGHT



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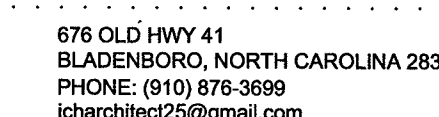
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LIFE SAFETY PLAN

G-LS1



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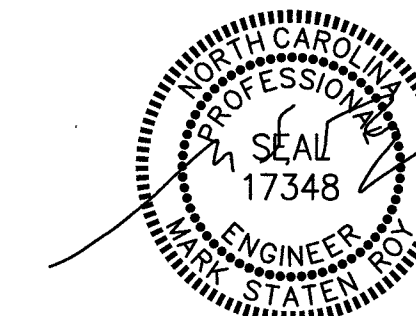


1. SEE SHEET S401 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
2. TOP OF SLAB REFERENCE ELEVATION = 0'-0" UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS.
3. AT AREA WHERE INTERIOR SLAB WILL NOT BE POURED CURRENTLY, COMPACT THE GRADE AND PROVIDE 4" COMPACTED GRANULAR FILL AND 10 MIL VAPOR BARRIER BELOW. FUTURE SLAB TO BE 4" THICK CONCRETE W/ 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC. SEE DETAIL 5/S201
4. CONCRETE FLOOR SLAB IS 4" THICK WITH 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC. PROVIDE 10 MIL VAPOR BARRIER AND 4" COMPACTED GRANULAR BASE UNDER SLAB. SEE DETAIL 1/S201.
5. ALL EXTERIOR WALL STRIP FOOTINGS SHALL BE 2'-0" WIDE UNLESS OTHERWISE NOTED ON THE PLAN.
6. SEE DETAIL 5/S202 FOR TYPICAL FOOTING STEP.
7. THE TOP OF ALL EXTERIOR WALL STRIP FOOTINGS SHALL BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED ON THE PLAN.
8. THE TOP OF ALL EXTERIOR COLUMN SPREAD FOOTINGS SHALL BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED ON THE PLAN. THE TOP OF ALL INTERIOR COLUMN SPREAD FOOTINGS SHALL BE AT ELEVATION -0'-8" UNLESS OTHERWISE NOTED ON THE PLAN.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS.
10. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MASONRY OPENINGS NOT SHOWN.
11. FOR FOOTING, BASE PLATE AND ANCHOR BOLT DETAIL, SEE SHEET S201.
12. SEE DETAIL 4/S201 FOR SLAB CORNER REINFORCEMENT.

COLUMN SCHEDULE

FOOTING SCHEDULE

NOTE:
1. S.W.=> SHORT WAY. 2. L.W.=> LONG WAY. 3. E.W.=> EACH WAY



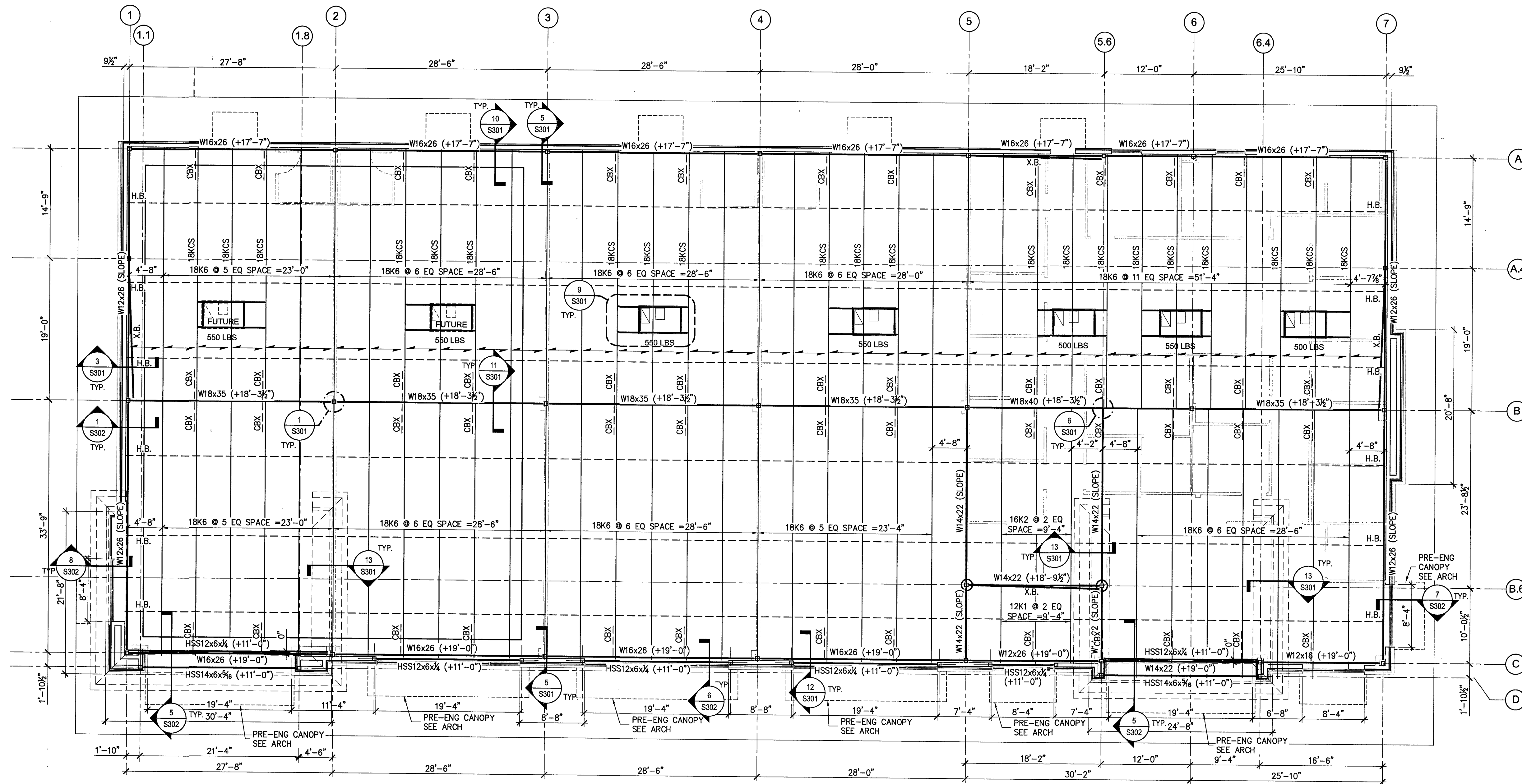
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S101

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ROOF FRAMING PLAN

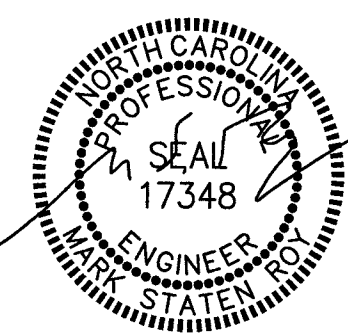
3/16" = 1'-0"

ROOF FRAMING PLAN NOTES:

- SEE SHEET S401 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
- COORDINATE ROOF OPENINGS WITH MECHANICAL AND PLUMBING DRAWINGS.
- ROOF DECK IS 1/2" 20 GA. WIDE RIB (S.D.I. TYPE WR-22). SEE NOTES ON SHEET S401 FOR ADDITIONAL INFORMATION.
- SEE DETAIL 2/S301 FOR ROOF DECK CONSTRUCTION INFORMATION.
- TOP OF STEEL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR REFERENCE ELEVATION 0'-0". SEE ARCHITECTURAL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION.

ROOF FRAMING PLAN LEGEND

	DENOTES DIRECTION OF DECK SPAN
W 14 x 22 (+X'-X")	STEEL BEAM WITH SIZE AND TOP OF STEEL REFERENCE ELEVATION
+XX'-X"	JOIST BEARING ELEVATION SEE PLAN
X.B.	DENOTES 'DIAGONAL BRACING SEE DETAIL 2/S302
H.B.	DENOTES 'DIAGONAL BRACING SEE DETAIL 3/S301
BCX	DENOTES 'BOTTOM CHORD EXTENSION' SEE DETAIL 4 & 12/S301 TYP.
U.N.O.	DENOTES 'UNLESS NOTED OTHERWISE'



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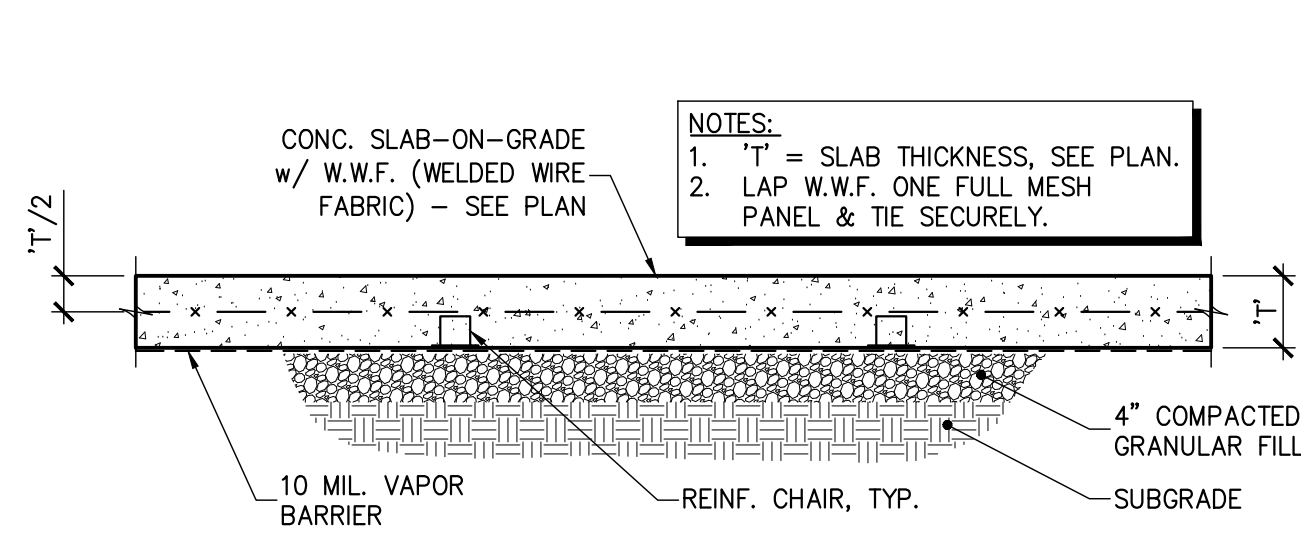
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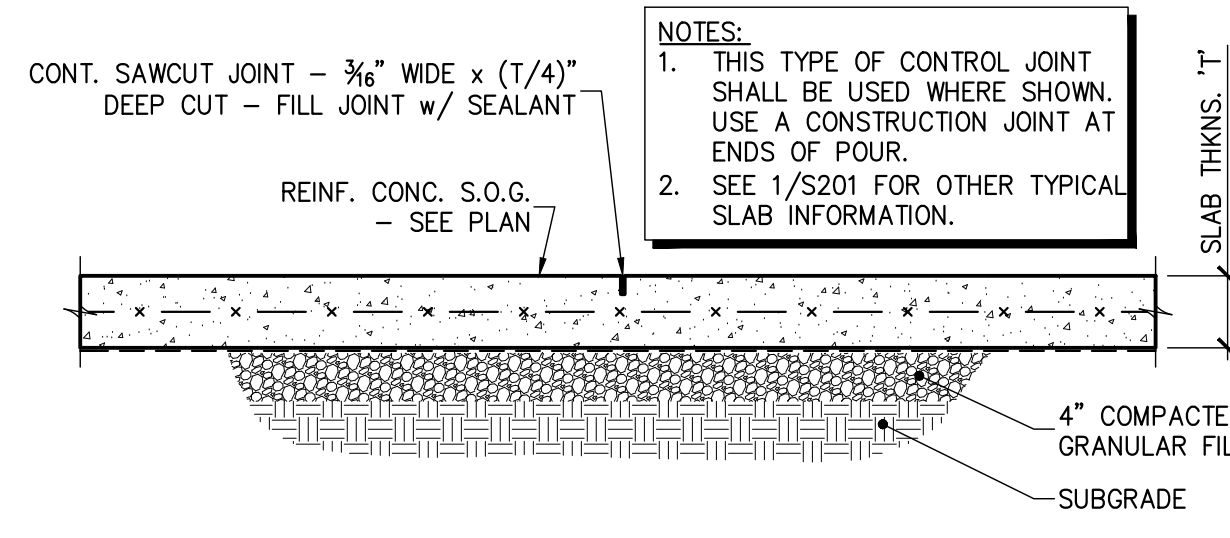
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**ROOF FRAMING
PLAN, PLAN NOTES
& SCHEDULES**

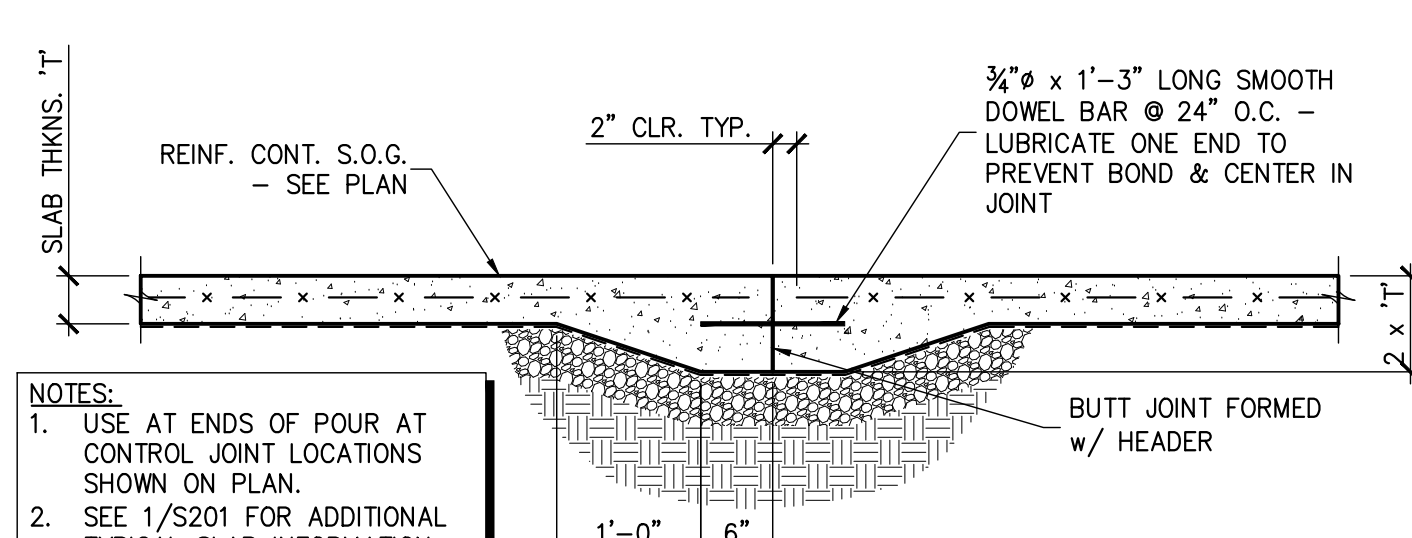
S102



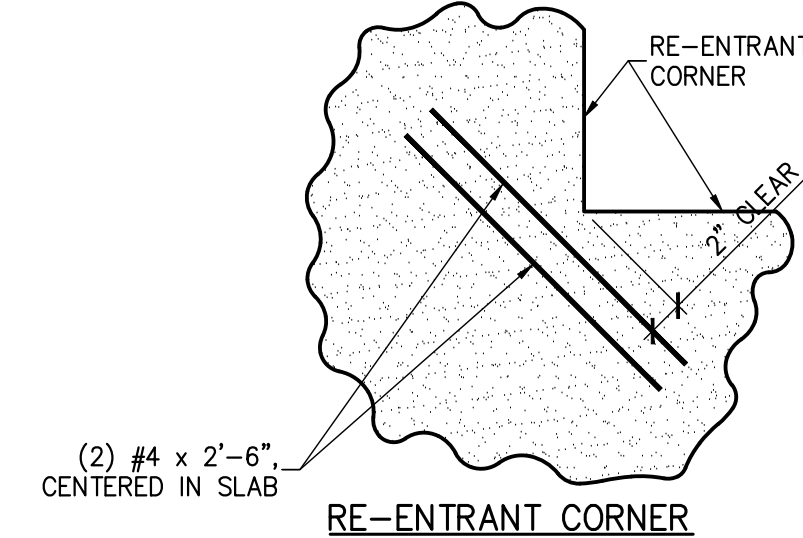
1 SECTION - TYP. SLAB ON GRADE
S201 3/4" = 1'-0"



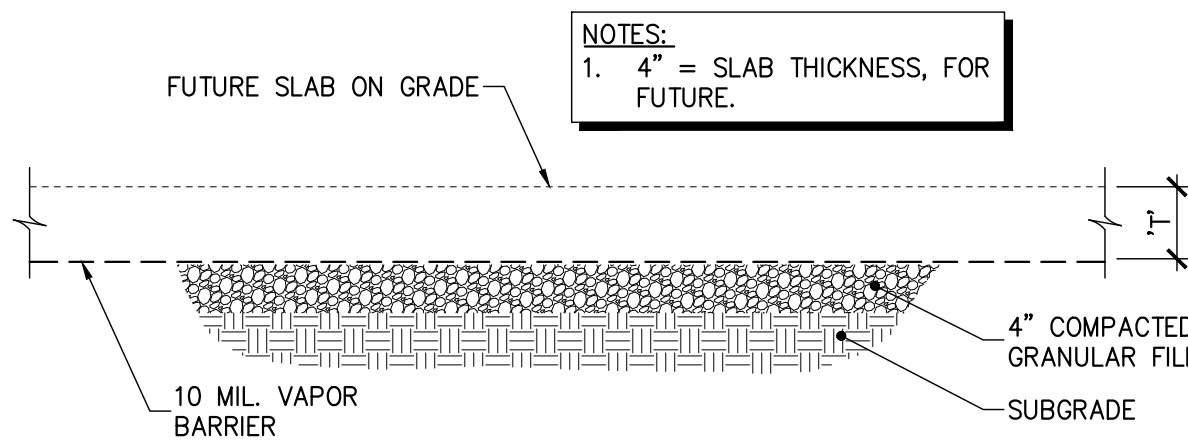
2 SECTION - TYP. CONTROL JOINT
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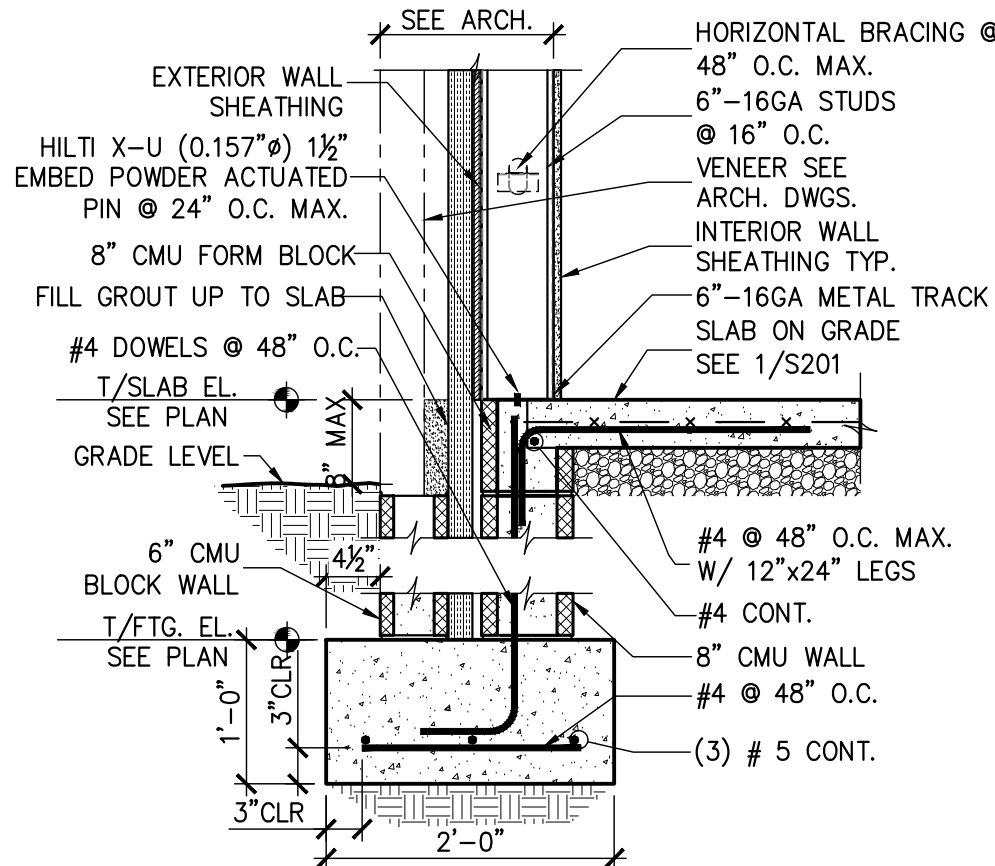
3 SECTION - TYP. CONSTRUCTION JOINT
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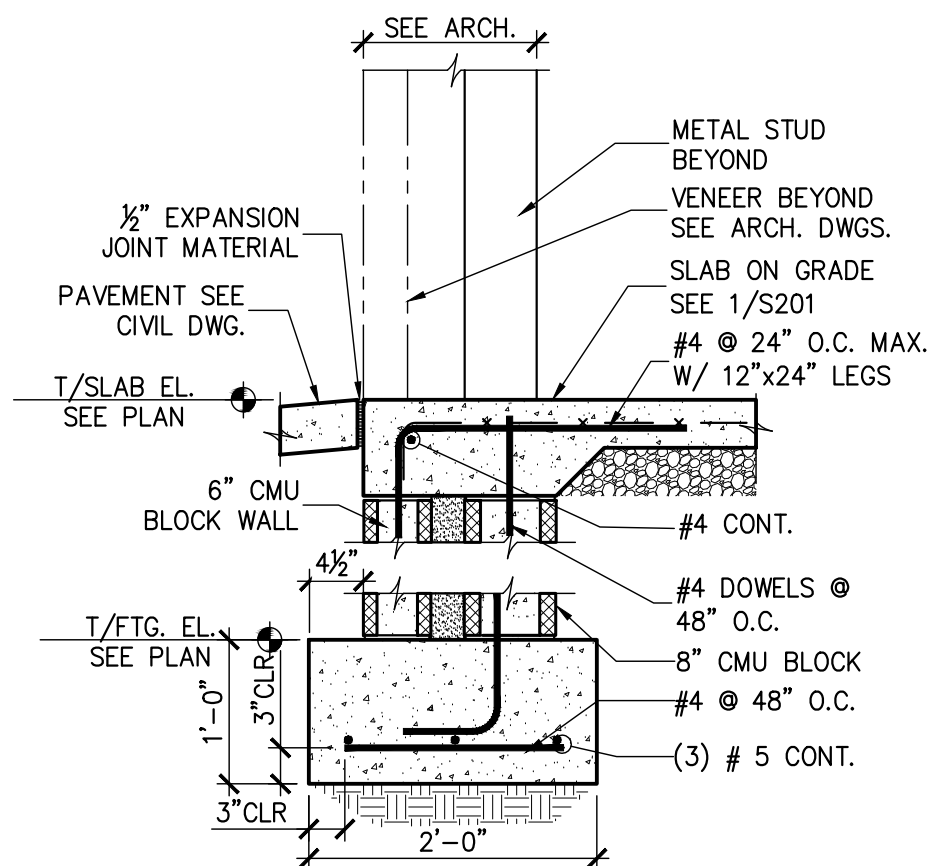
DETAIL - TYP.
4 REINF. @ SLAB CORNERS
S201 3/4" = 1'-0"



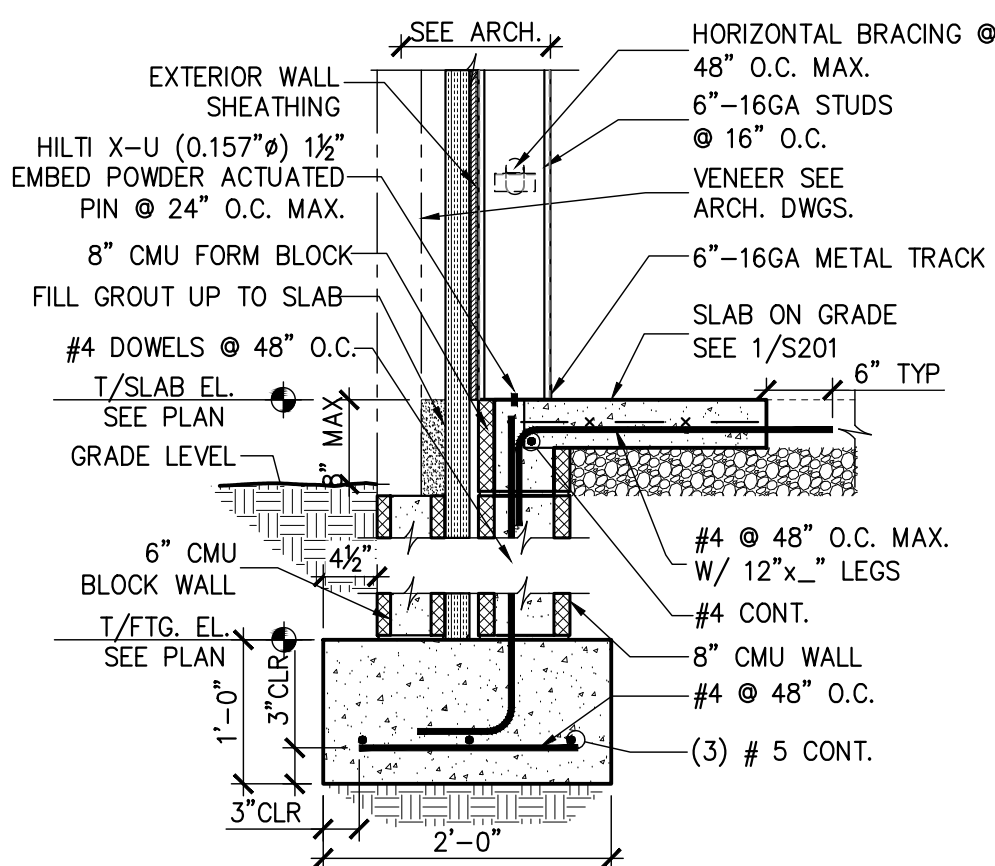
5 SECTION - TYP. SLAB ON GRADE
S201 3/4" = 1'-0"



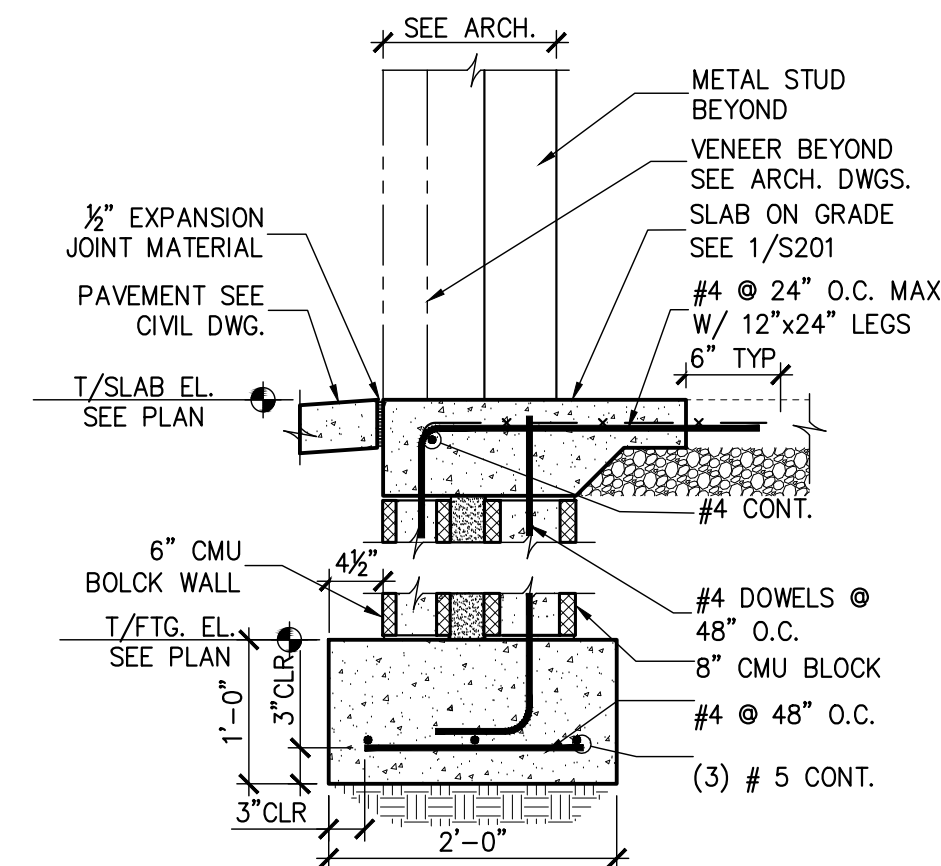
6 SECTION - TYP. EXT. WALL FTG.
S201 3/4" = 1'-0"



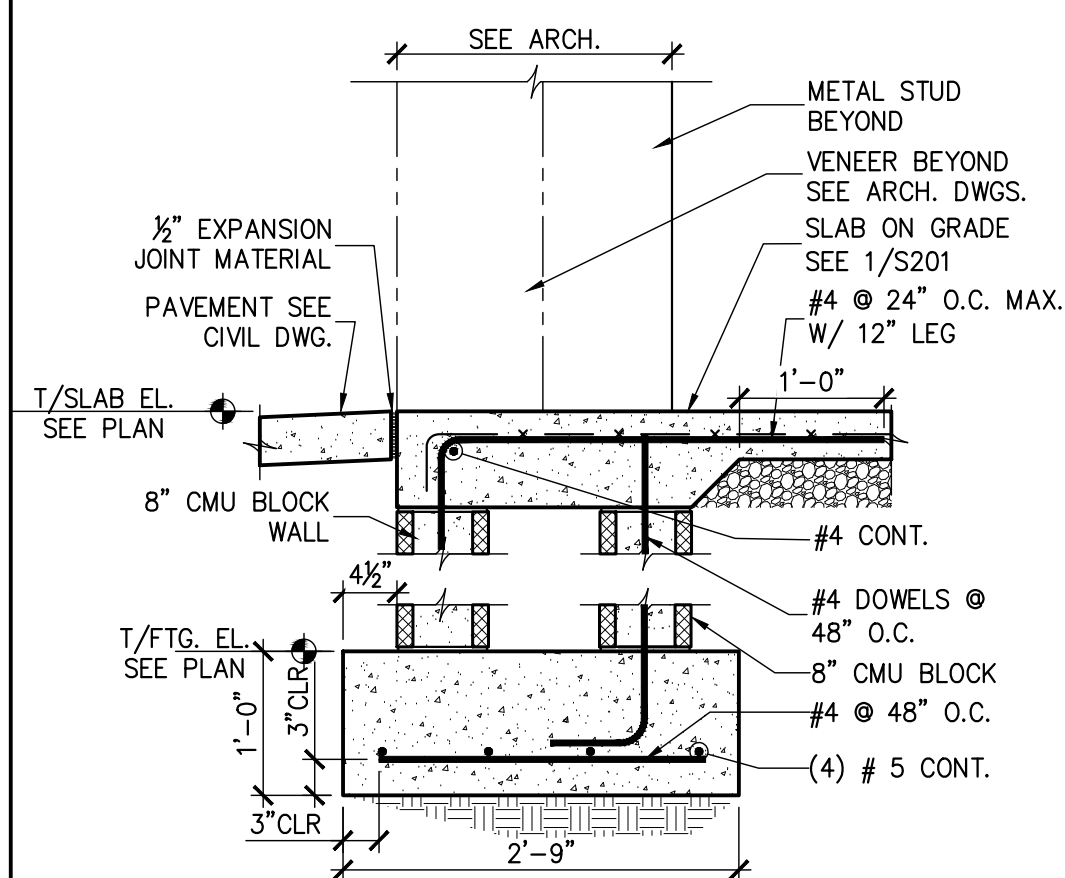
7 SECTION - TYP. WALL FTG. @ DOOR
S201 3/4" = 1'-0"



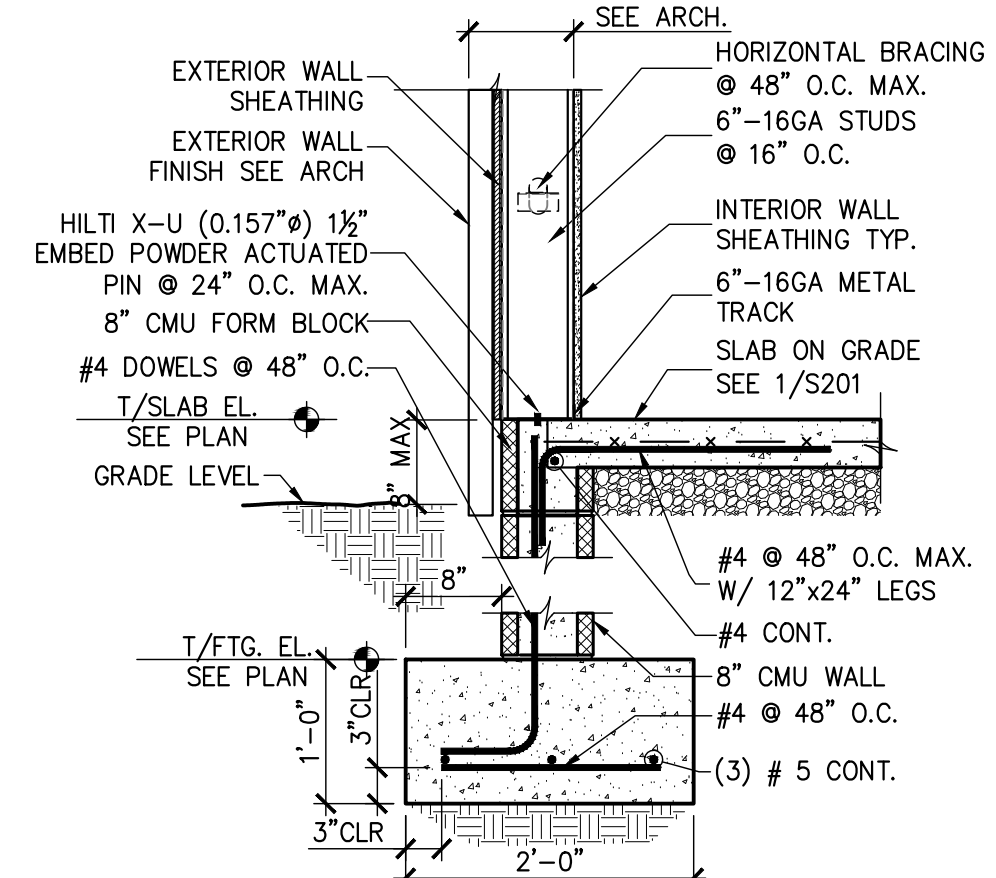
8 SECTION - TYP. EXT. WALL FTG.
S201 3/4" = 1'-0"



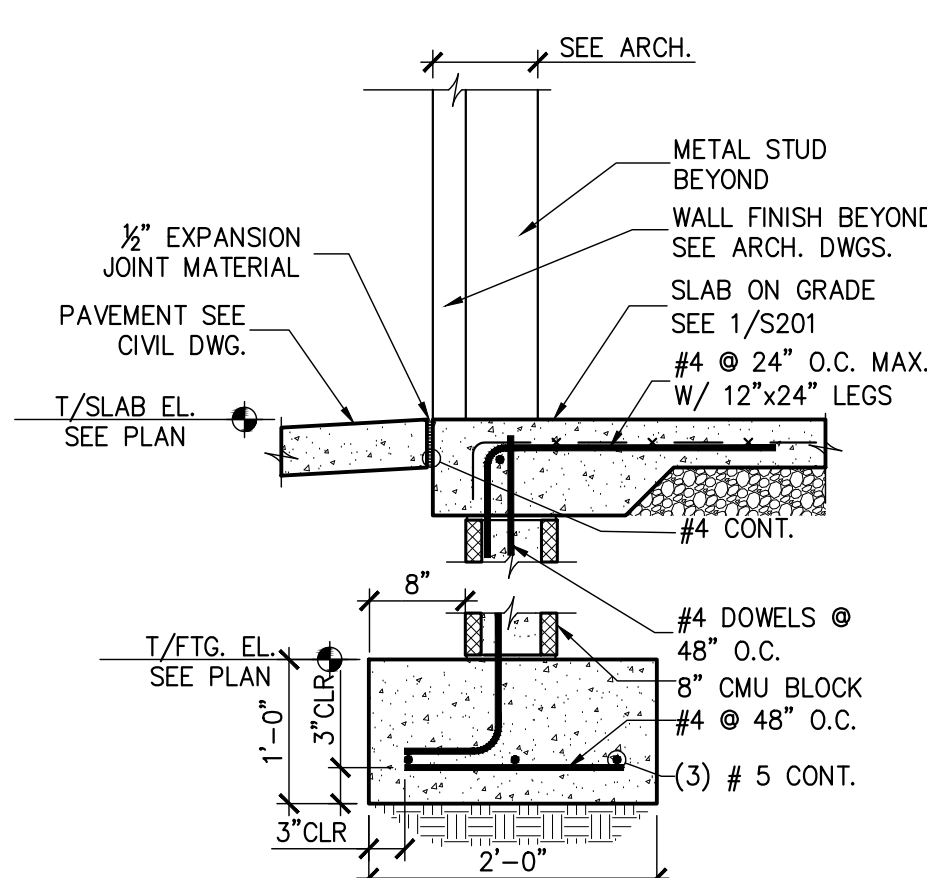
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S201 3/4" = 1'-0"



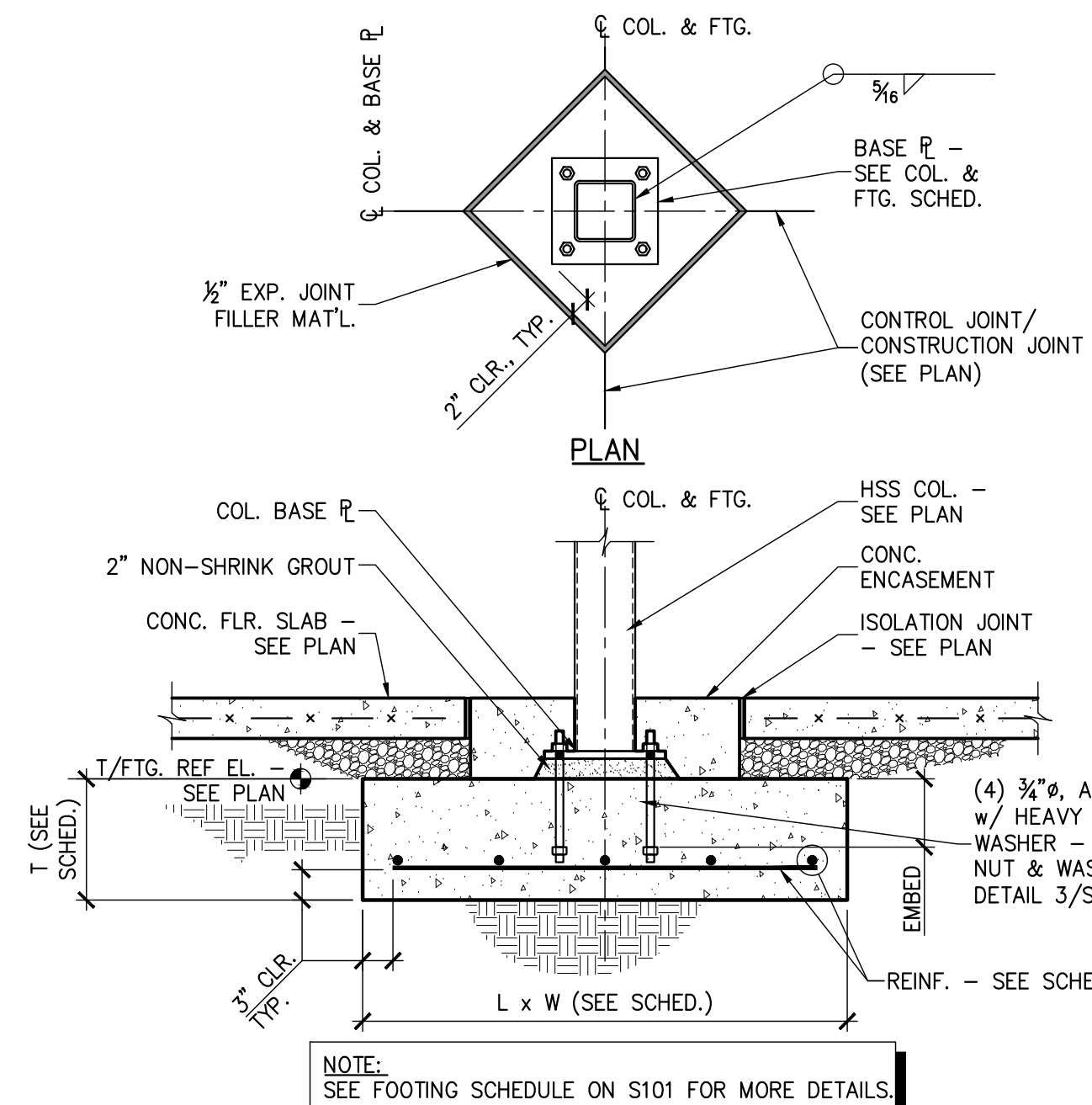
10 SECTION - TYP. WALL FTG. @ DOOR
S201 3/4" = 1'-0"



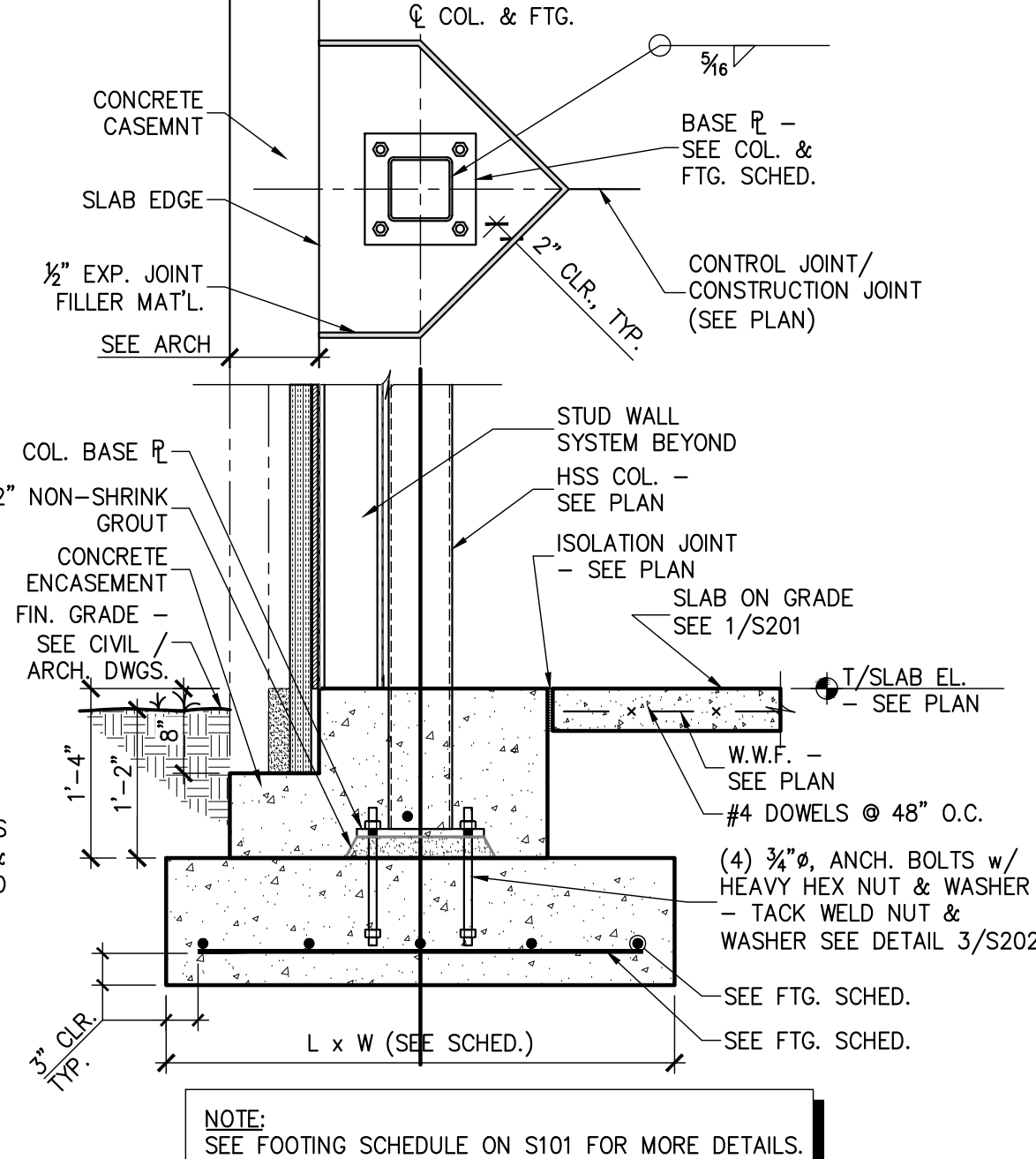
11 SECTION - TYP. EXT. WALL FTG.
S201 3/4" = 1'-0"



12 SECTION - TYP. WALL FTG. @ DOOR
S201 3/4" = 1'-0"



13 SECTION - TYP. INTERIOR HSS COL. FTG.
S201 3/4" = 1'-0"



14 SECTION - TYP. EXTERIOR HSS COL. FTG.
S201 3/4" = 1'-0"

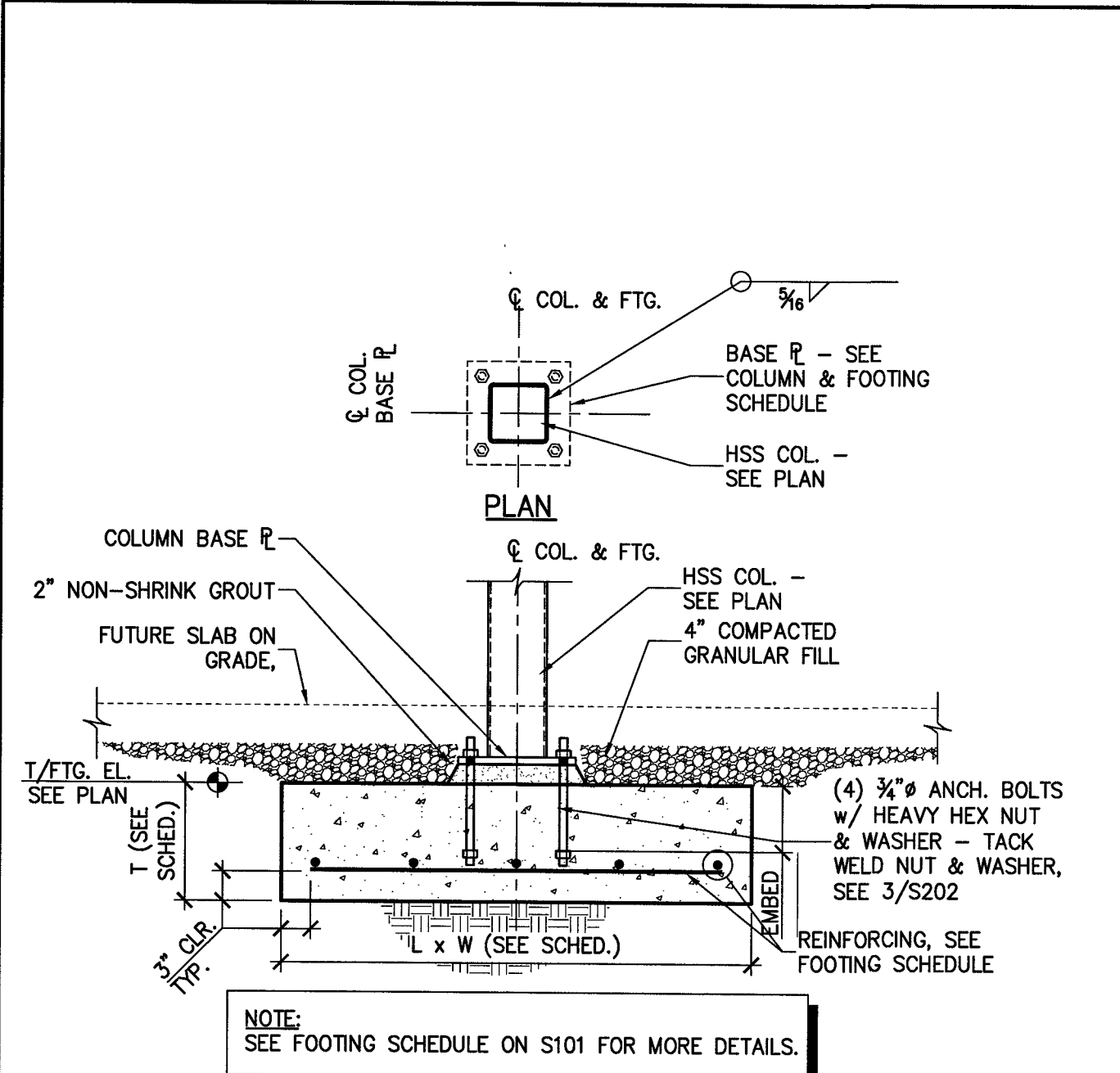
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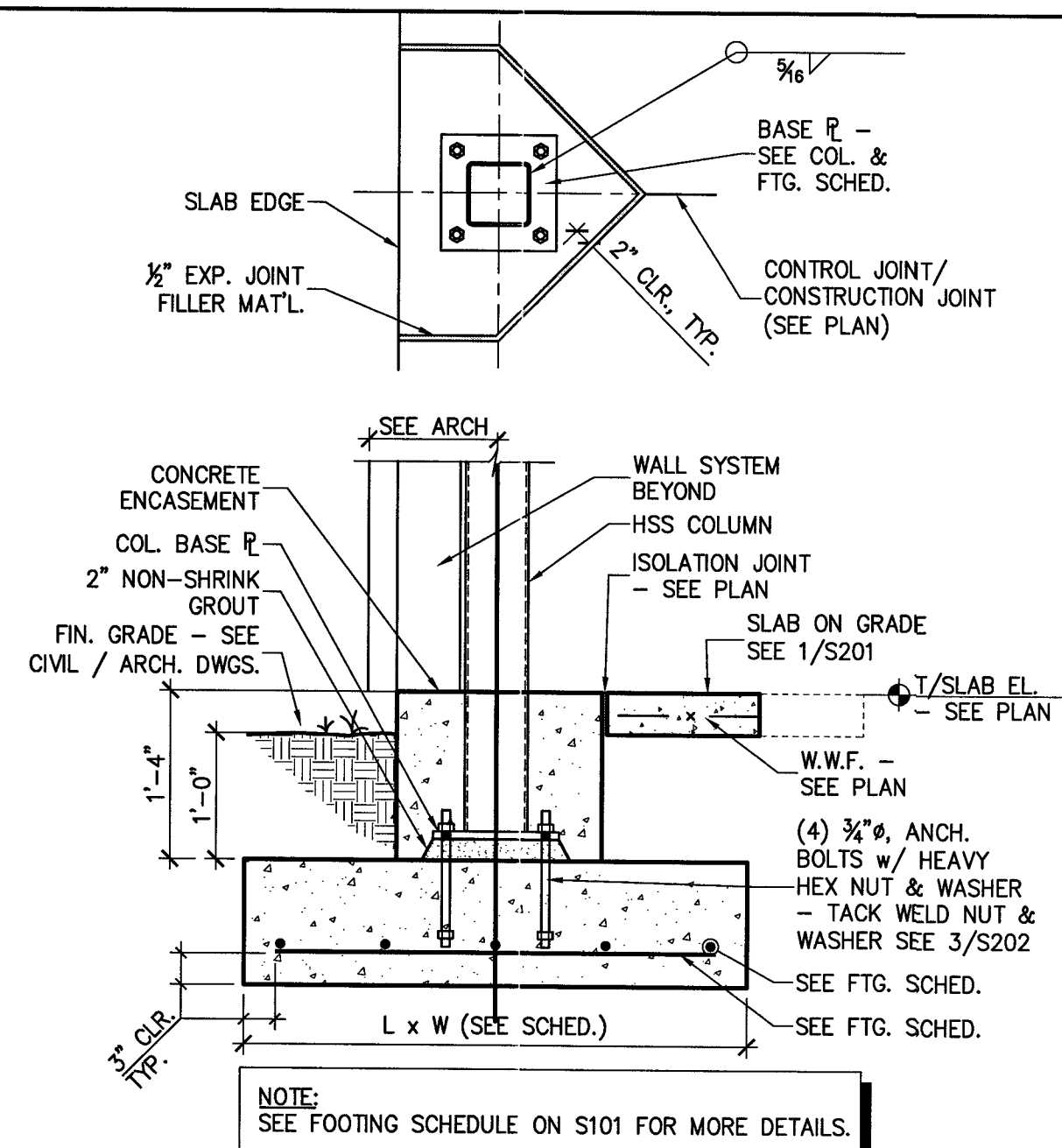
FOOTING DETAILS
AND SECTIONS

S201

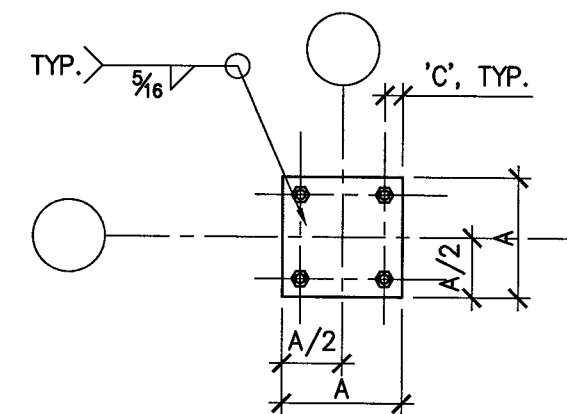
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1 SECTION - TYP. HSS COL. FTG.
S202 3/4" = 1'-0" INTERIOR COLUMN

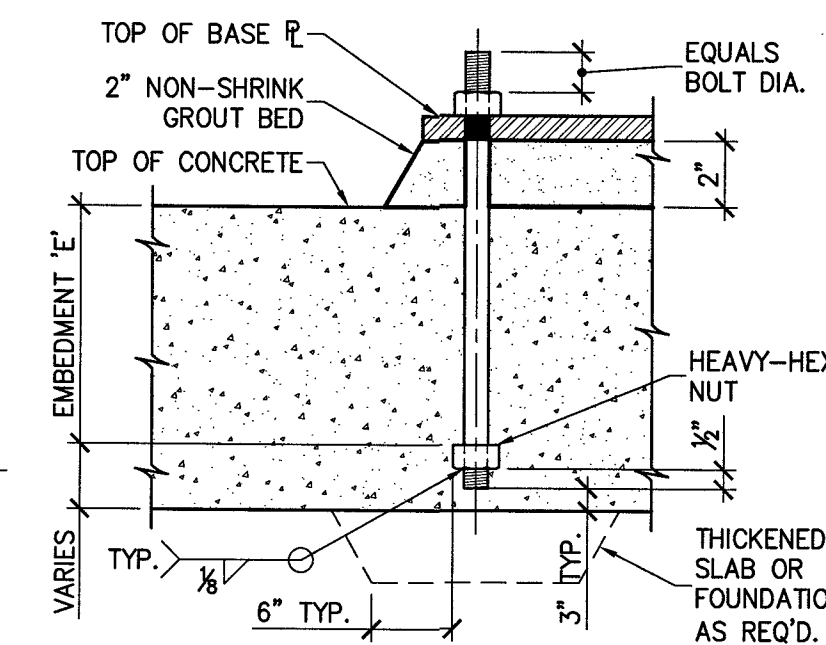


2 SECTION - TYP. EXTERIOR HSS COL. FTG.
S202 3/4" = 1'-0"

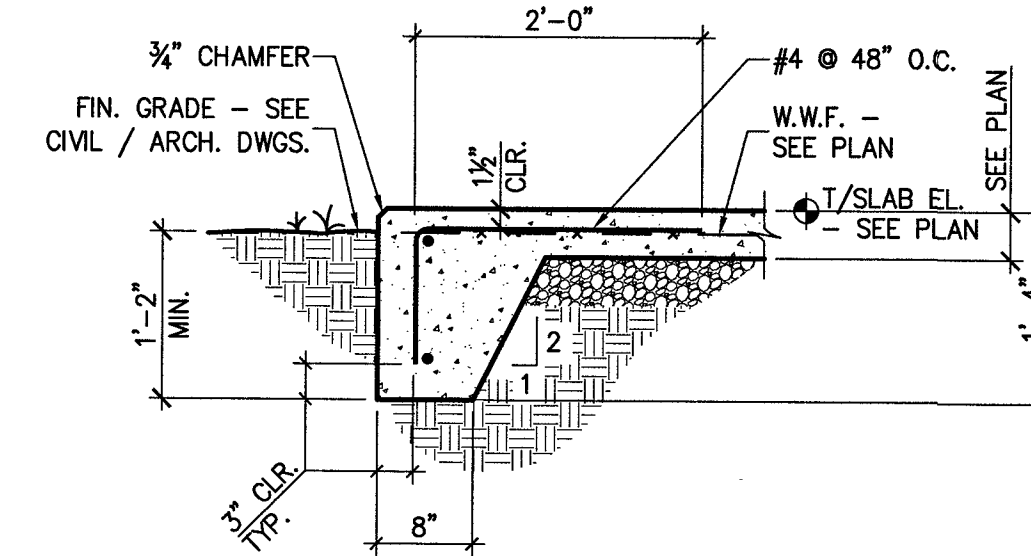


BOLT DIA.	DISTANCE 'C'
3/4" AND BELOW	1 1/2"

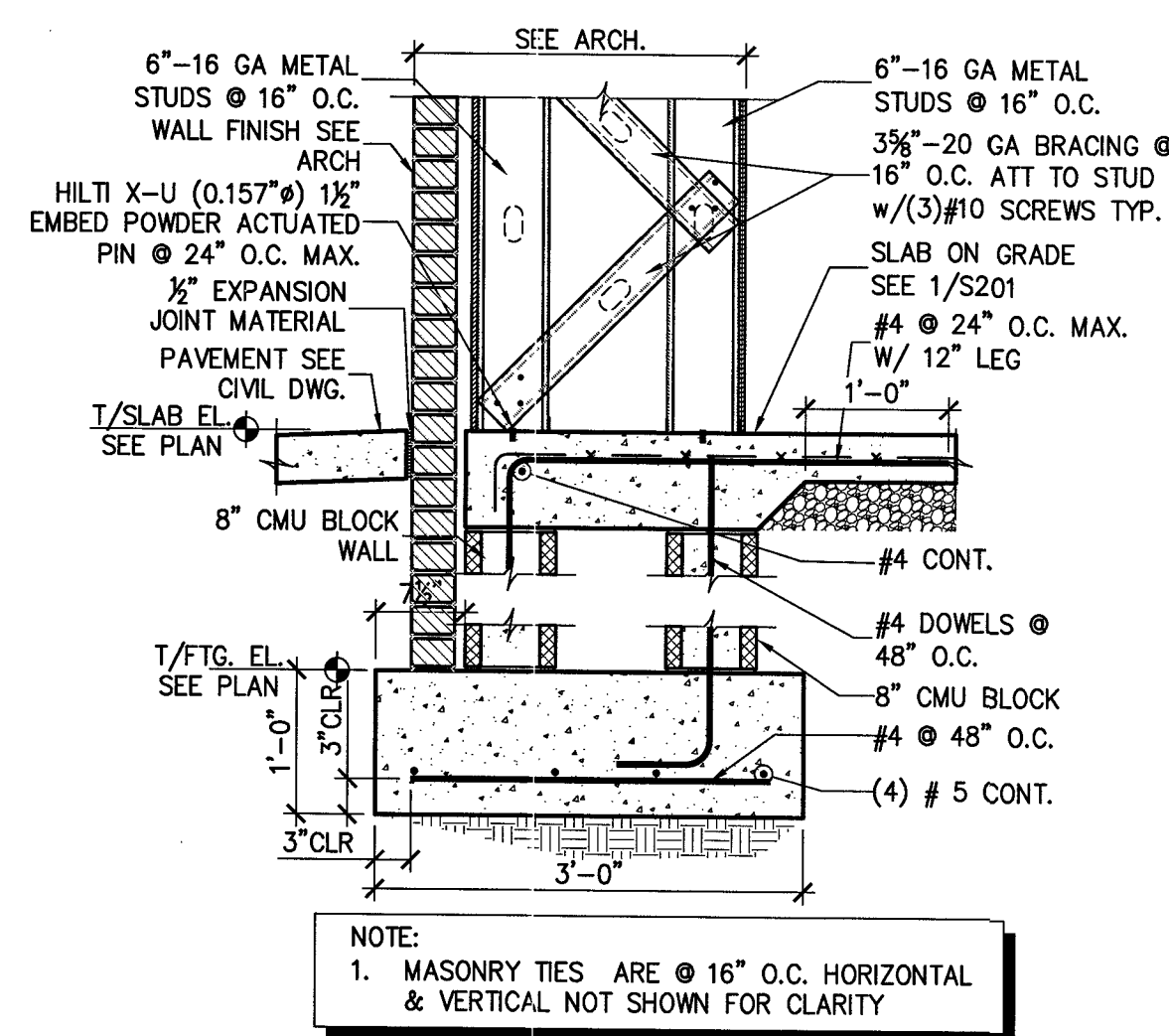
BASE PLATE



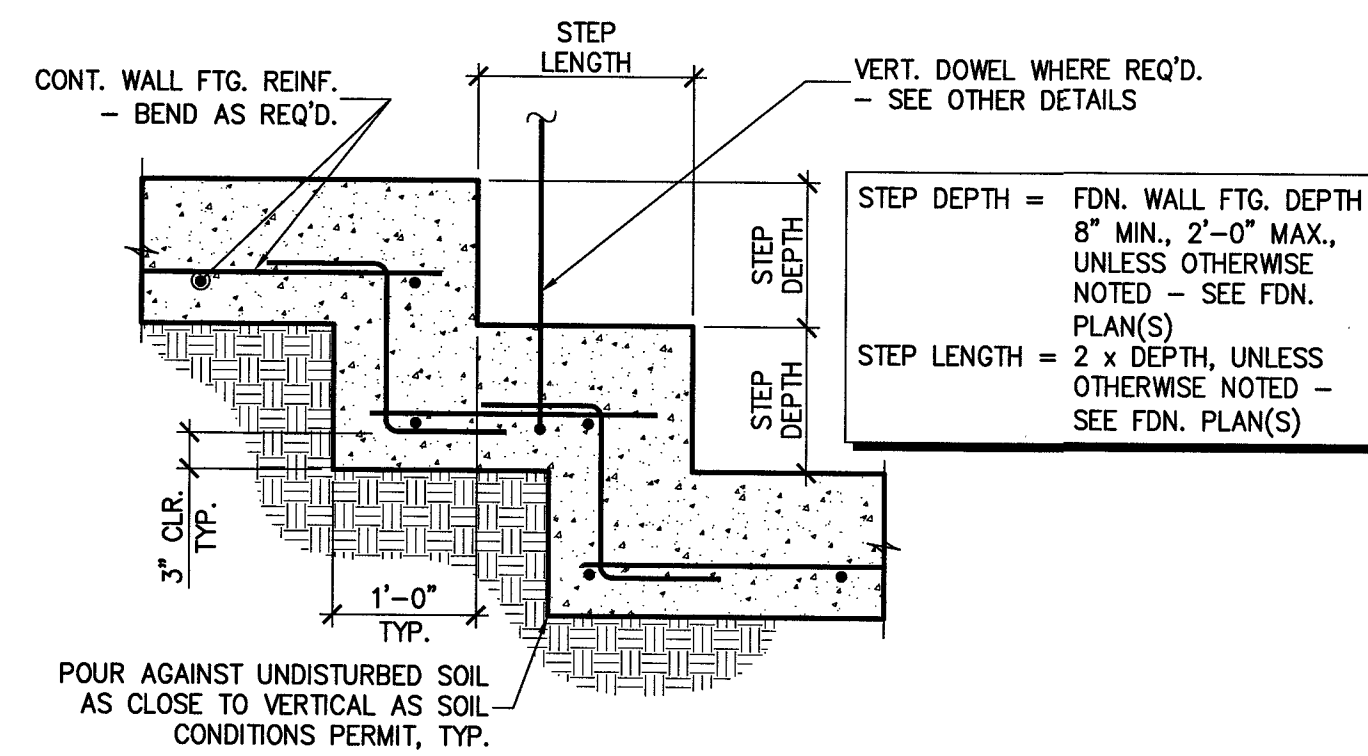
3 TYPICAL ANCHOR BOLT DETAIL
S202 3/4" = 1'-0"



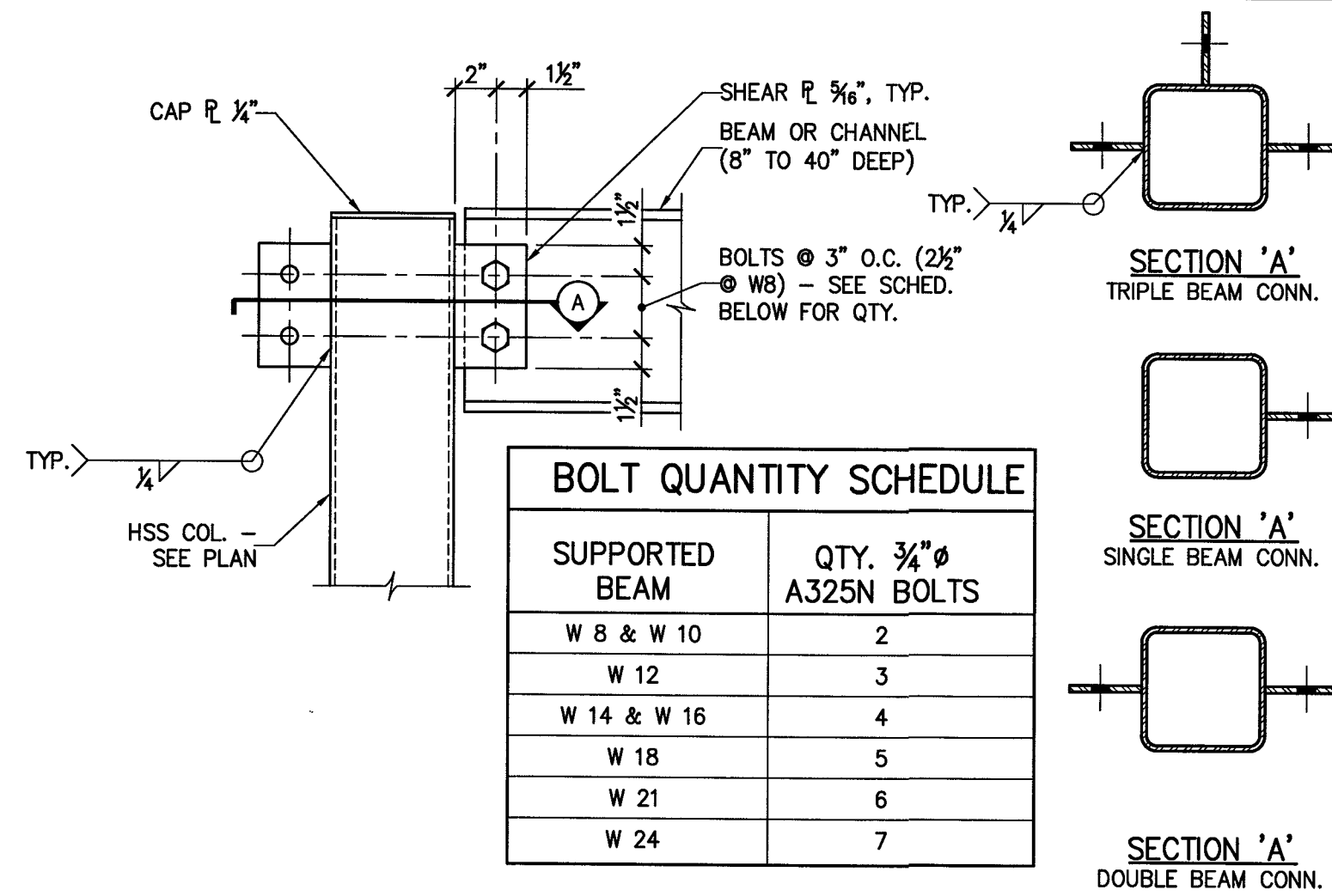
5 SECTION - TYP. STEPPED FTG.
S202 3/4" = 1'-0" USE AS NEEDED



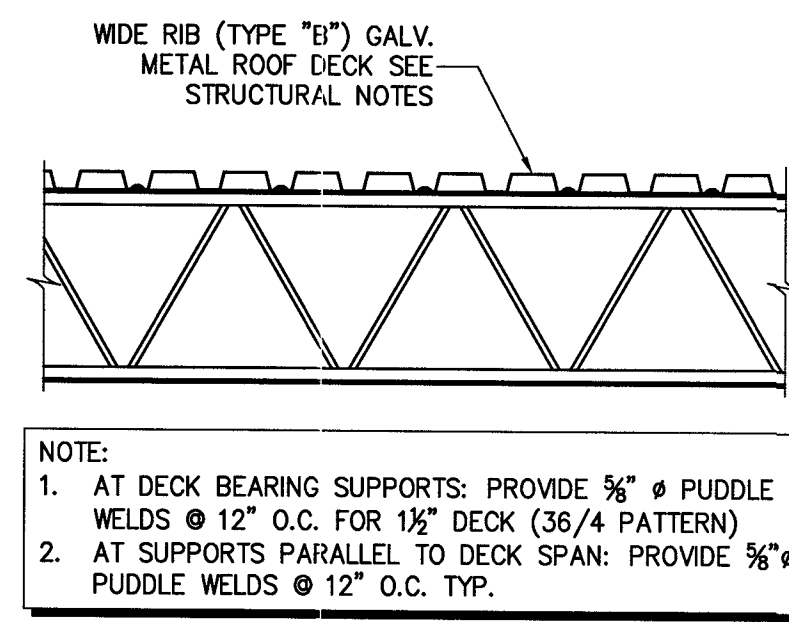
6 SECTION - TOWER WALL FTG.
S202 3/4" = 1'-0"



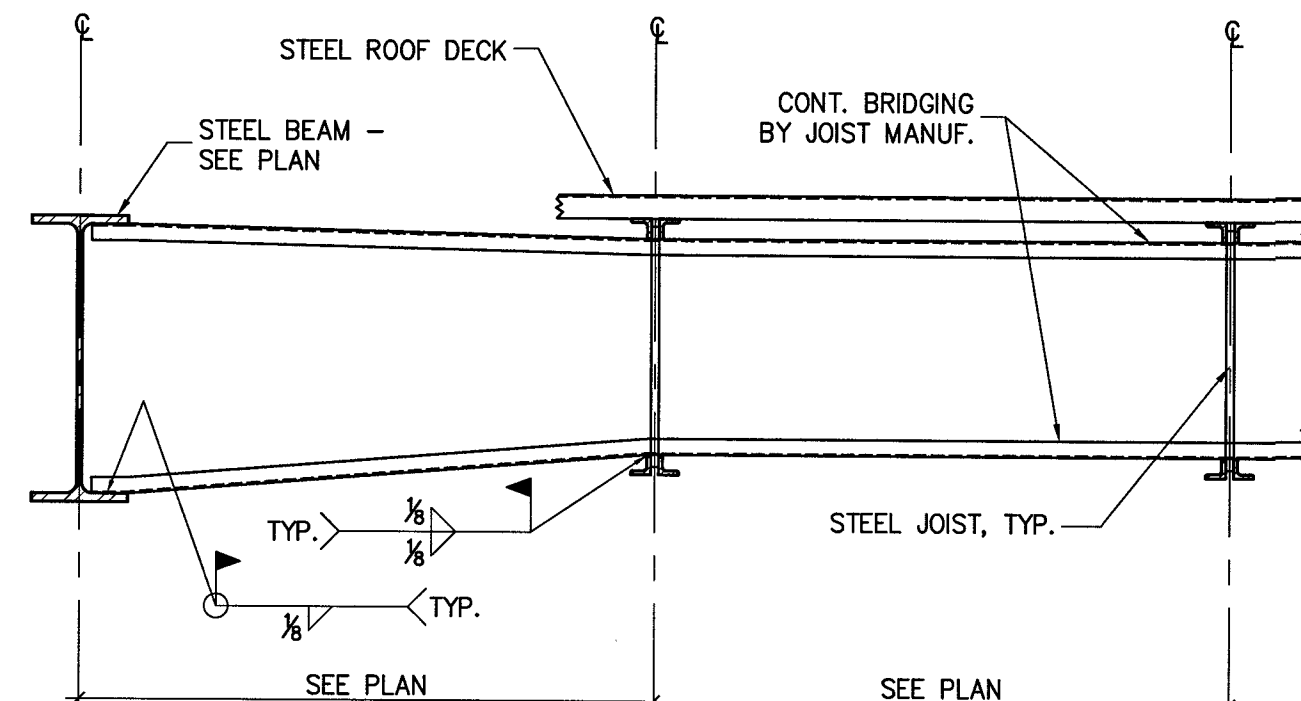
4 SECTION - TYP. SLAB
EDGE w/ TURN-DOWN
S202 3/4" = 1'-0" USE AS NEEDED



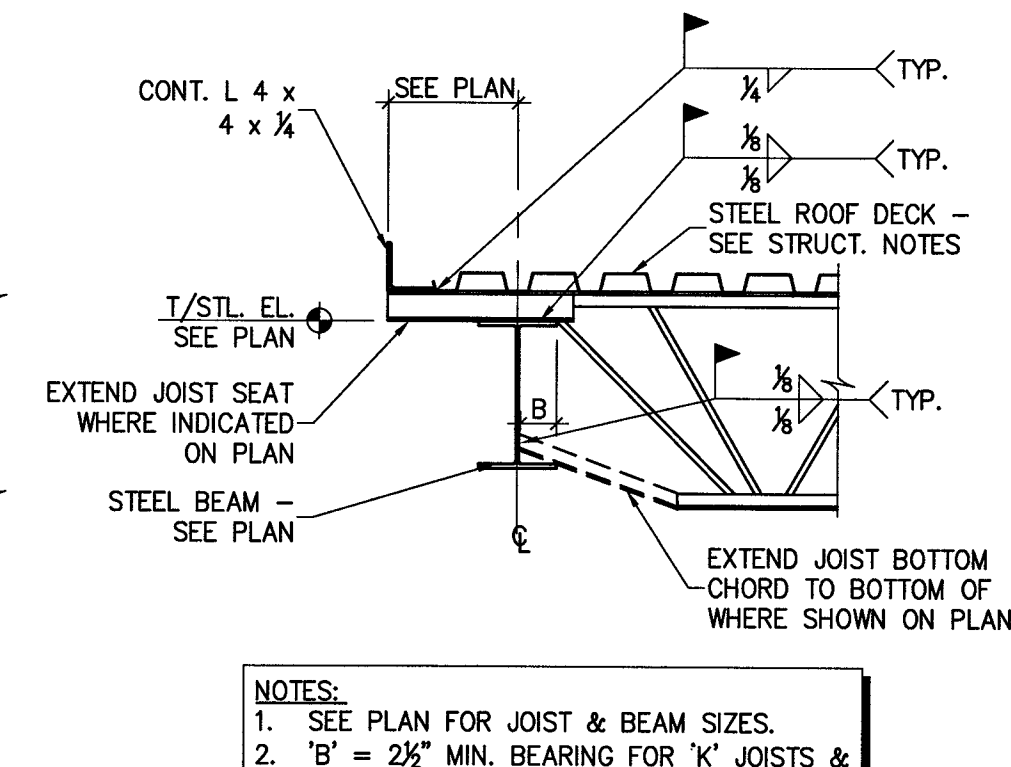
1 TYP. WF BEAM TO HSS COL. SHEAR TAB CONNECTION
S301 N.T.S.



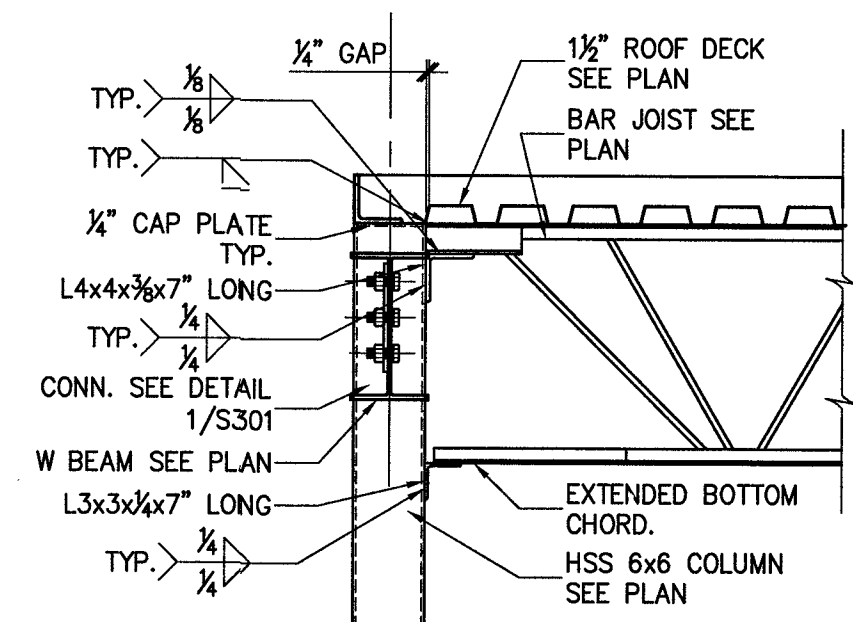
2 TYP. ROOF DECK DETAIL
S301 $\frac{3}{4}$ " = 1'-0"



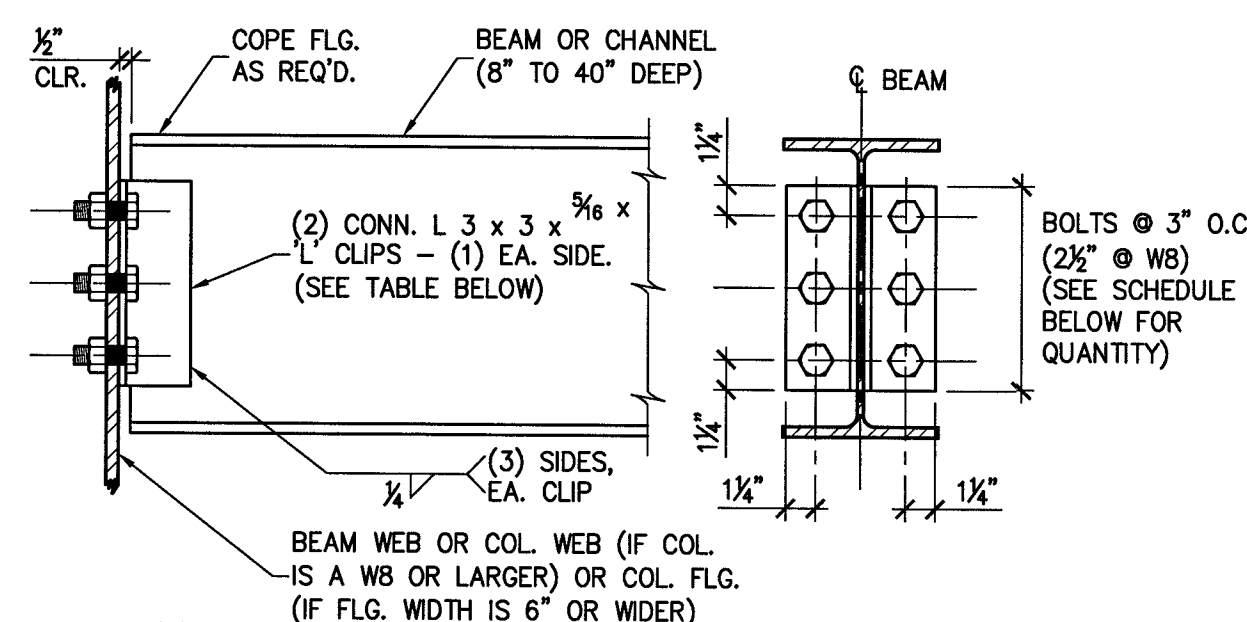
3 TYP. HORIZONTAL BRIDGING
S301 $\frac{3}{4}$ " = 1'-0"



4 SECTION - TYP. EXT. JOIST BRG.
S301 $\frac{3}{4}$ " = 1'-0"



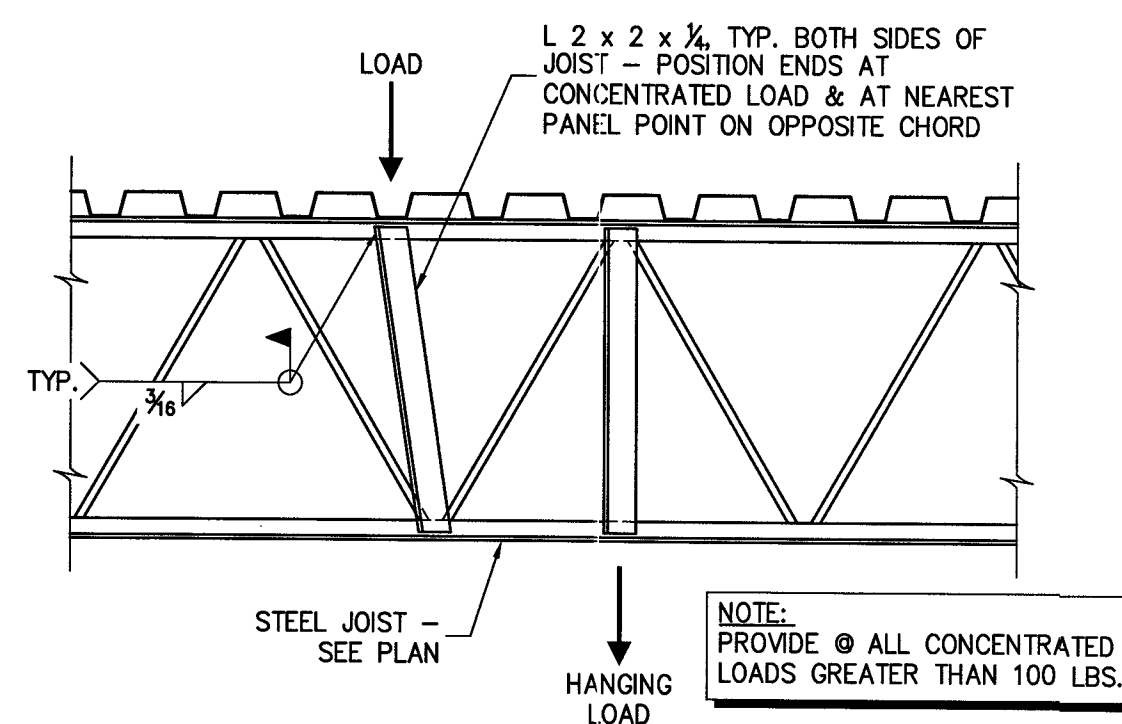
5 JOIST BEARING @ HSS COLUMN
S301 $\frac{3}{4}$ " = 1'-0"



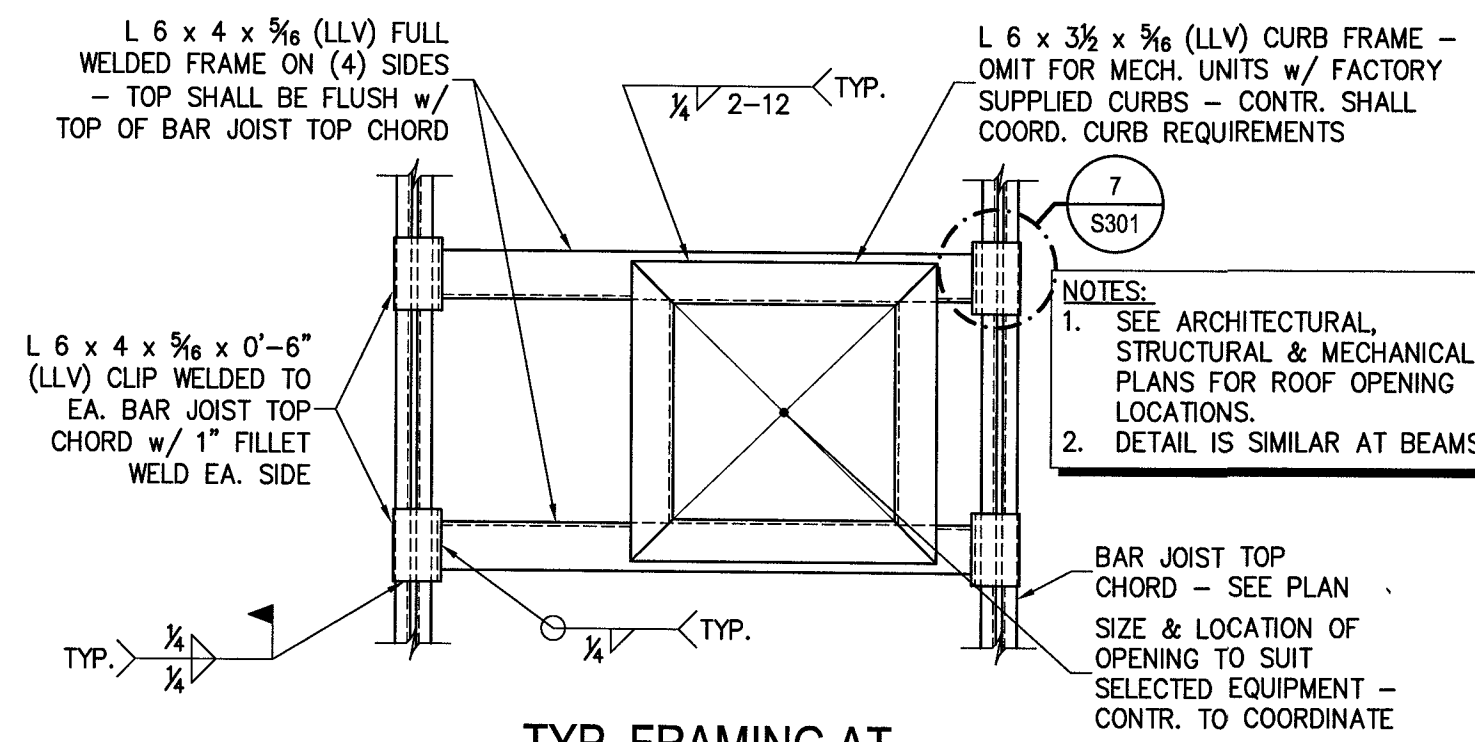
BEAM DEPTH NOMINAL	No. OF BOLTS EACH SIDE	FRAMING ANGLE LENGTH 'L'
8"	2	5"
10"	2	5 $\frac{1}{2}$ "
12"	3	8 $\frac{1}{2}$ "
14"	3	8 $\frac{1}{2}$ "
16"	4	11 $\frac{1}{2}$ "

* BOLT ROWS ARE SPACED 3" O.C. UNLESS NOTED OTHERWISE.

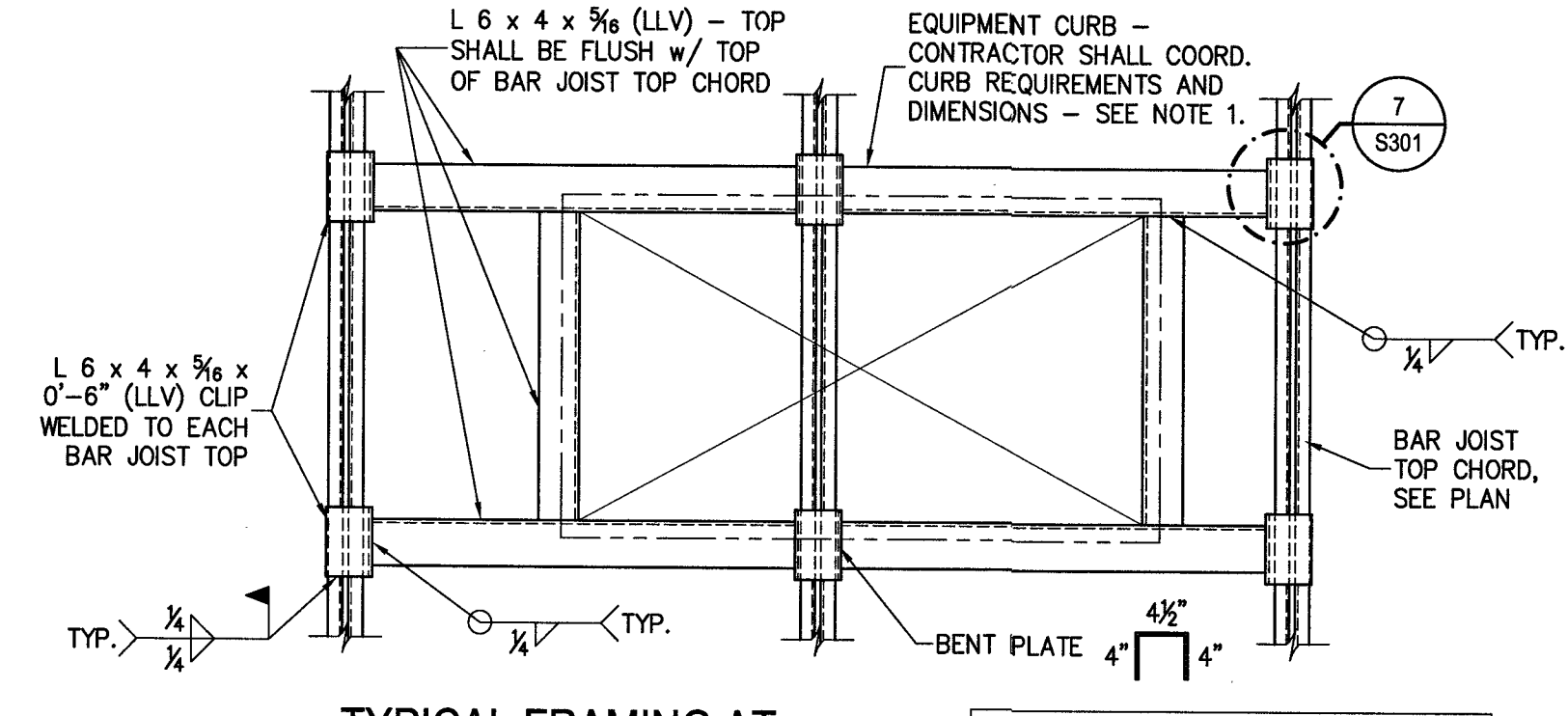
6 FRAMED BEAM CONN. DETAIL
S301 $1\frac{1}{2}$ " = 1'-0"



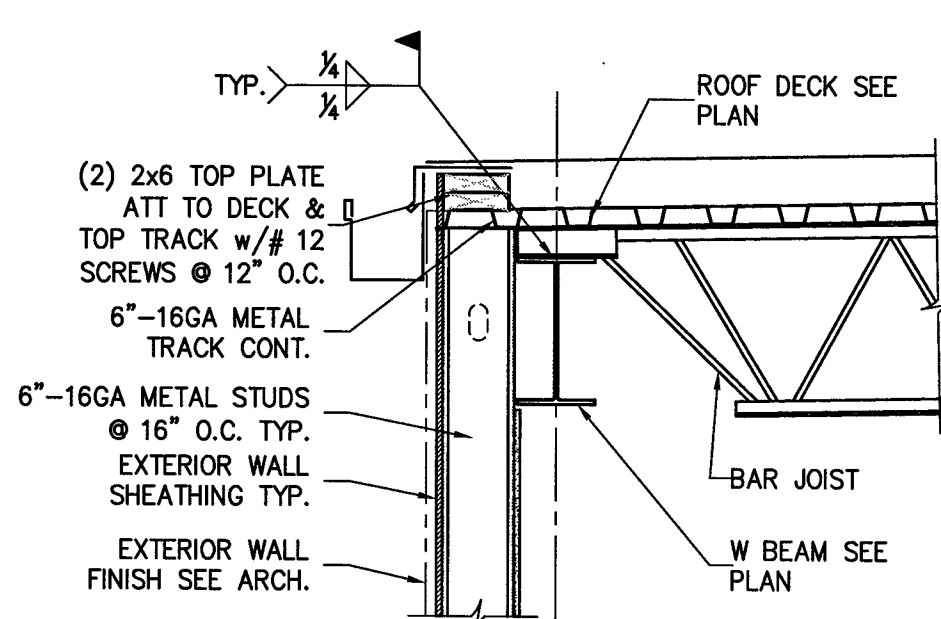
7 JOIST REINF. FOR CONCENTRATED LOAD
S301 $\frac{3}{4}$ " = 1'-0"



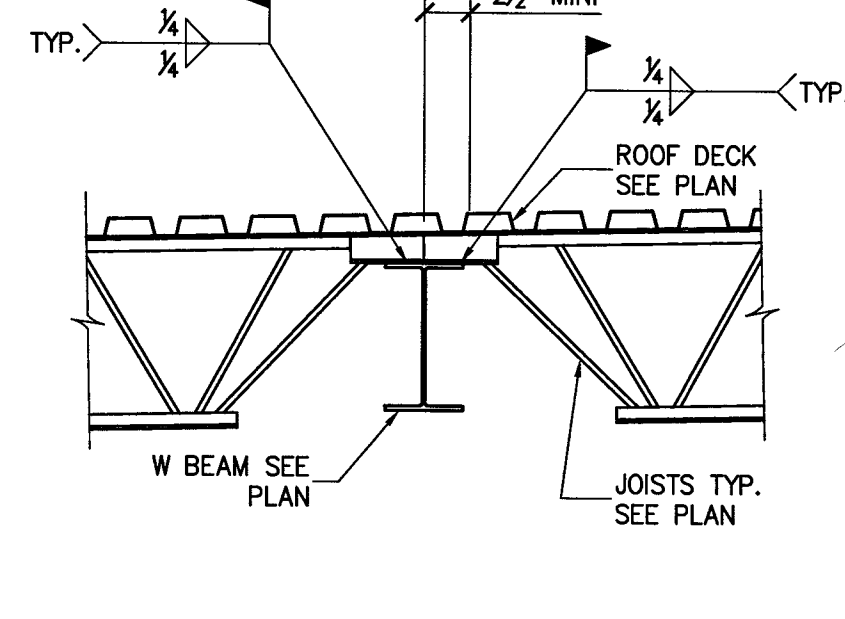
8 TYP. FRAMING AT OPENING IN ROOF DECK
S301 $\frac{3}{4}$ " = 1'-0"



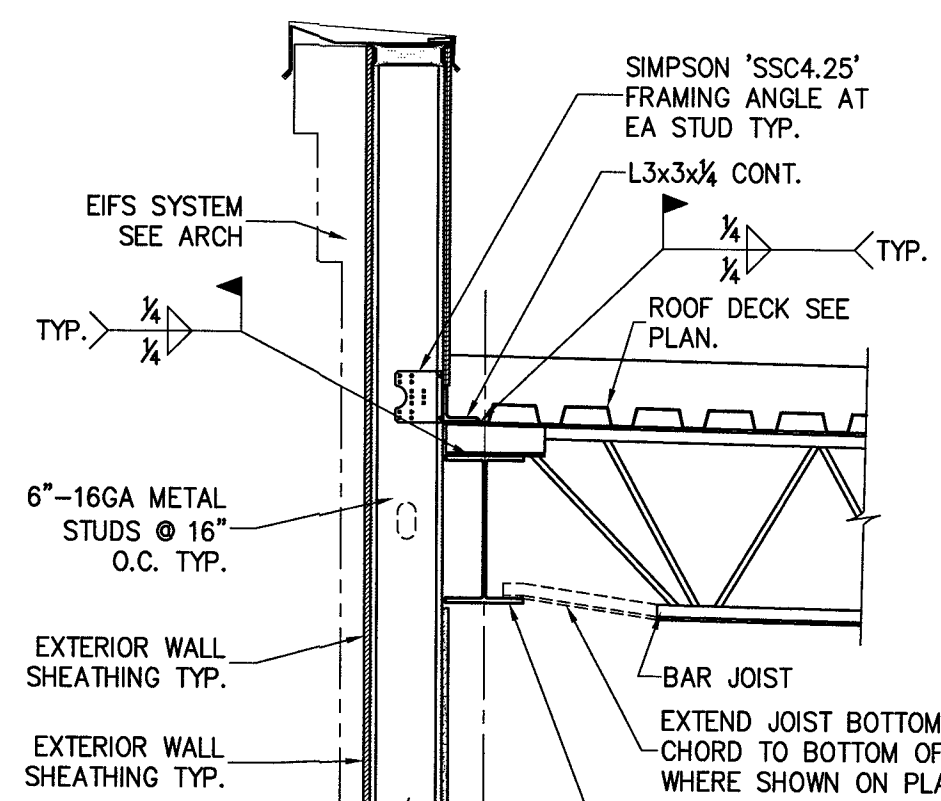
9 TYPICAL FRAMING AT ROOF TOP EQUIPMENT
S301 $\frac{3}{4}$ " = 1'-0"



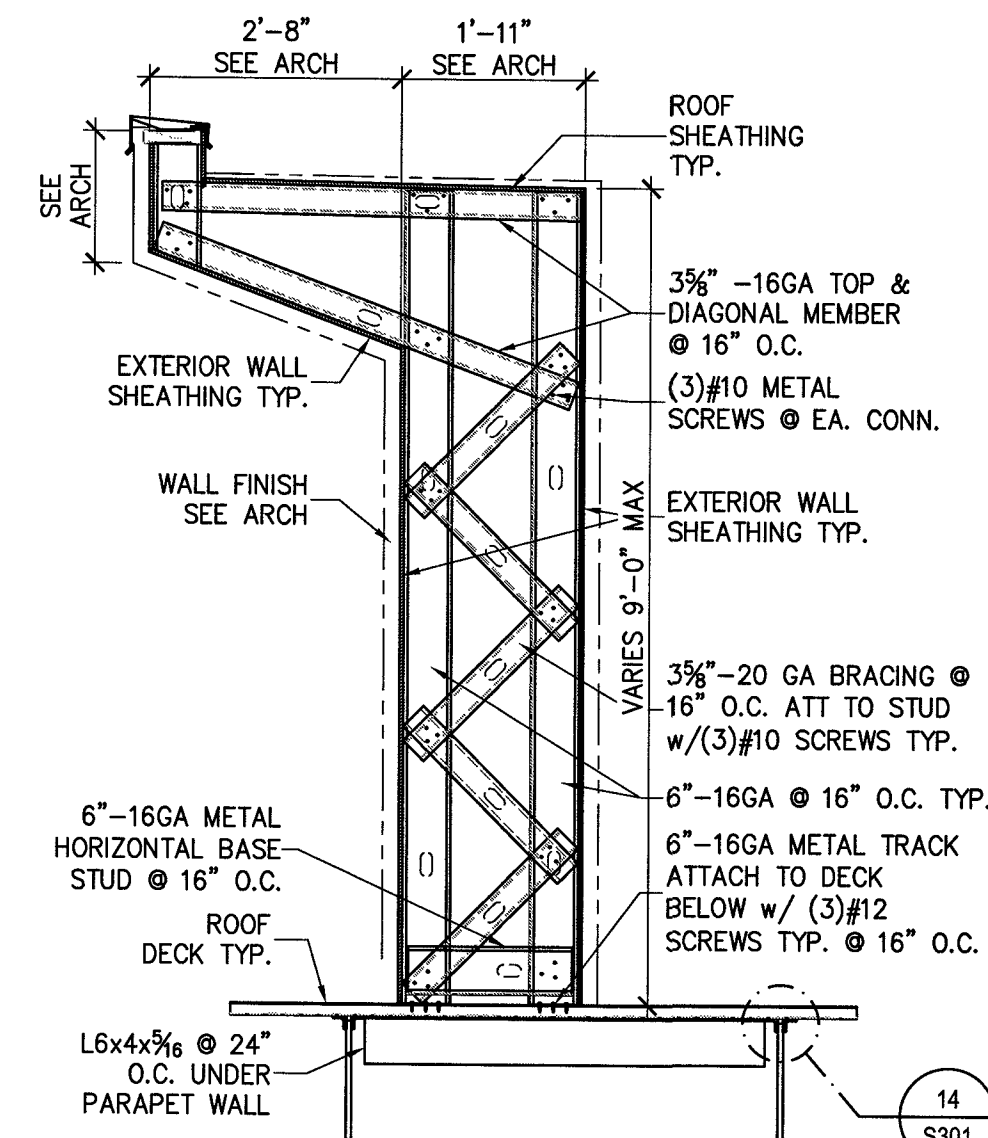
10 SECTION - TYP. EXT. JOIST BRG.
S301 $\frac{3}{4}$ " = 1'-0"



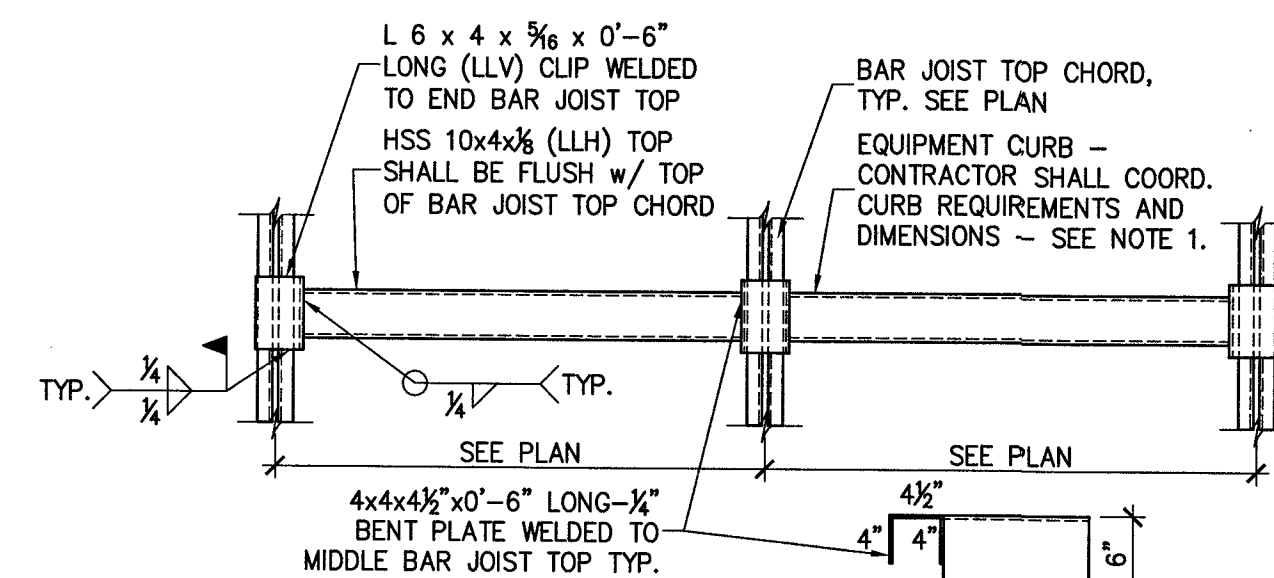
11 INTERIOR JOIST BEARING (TYP.)
S301 $\frac{3}{4}$ " = 1'-0"



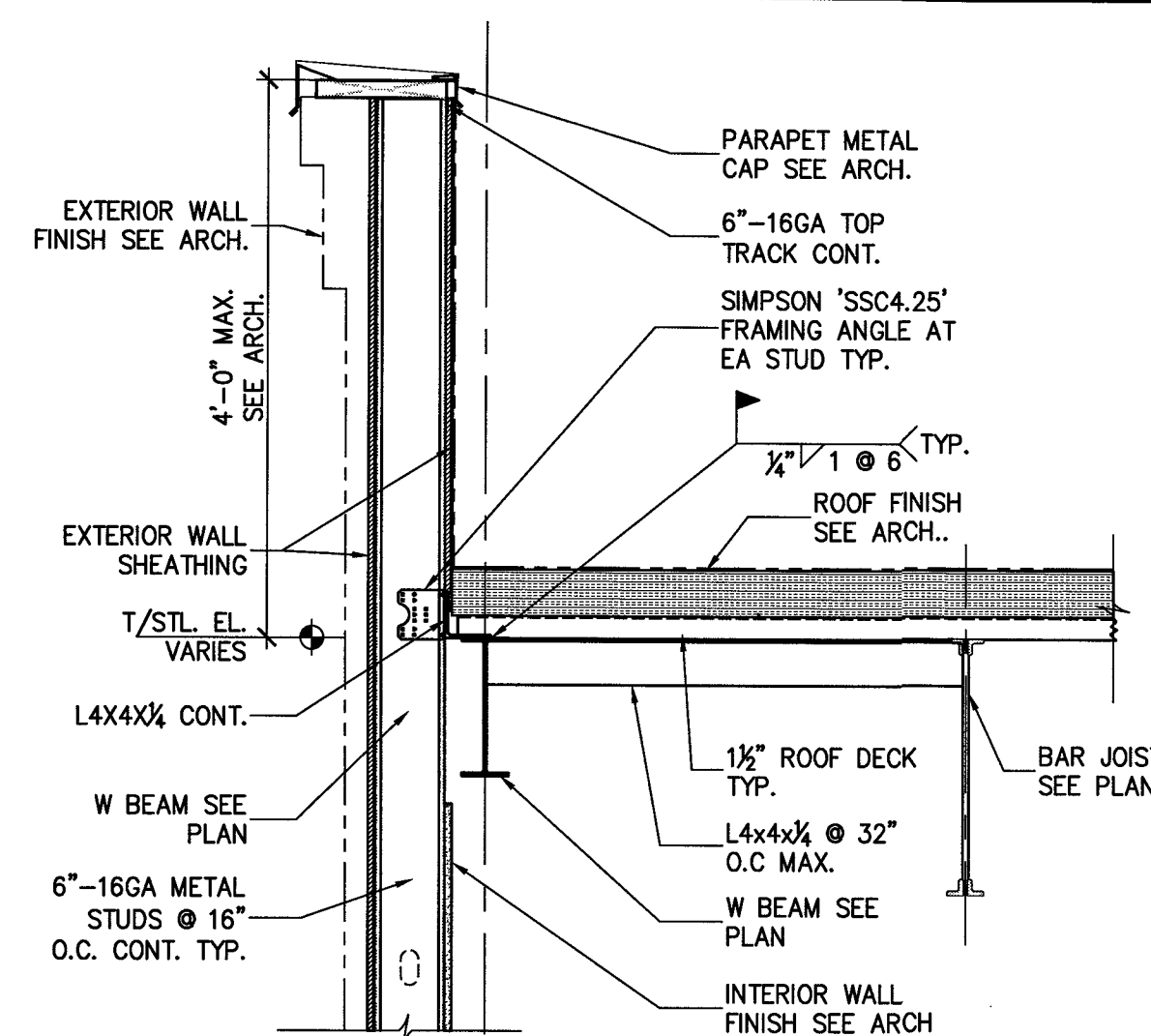
12 SECTION - TYP. EXT. JOIST BRG.
S301 $\frac{3}{4}$ " = 1'-0"



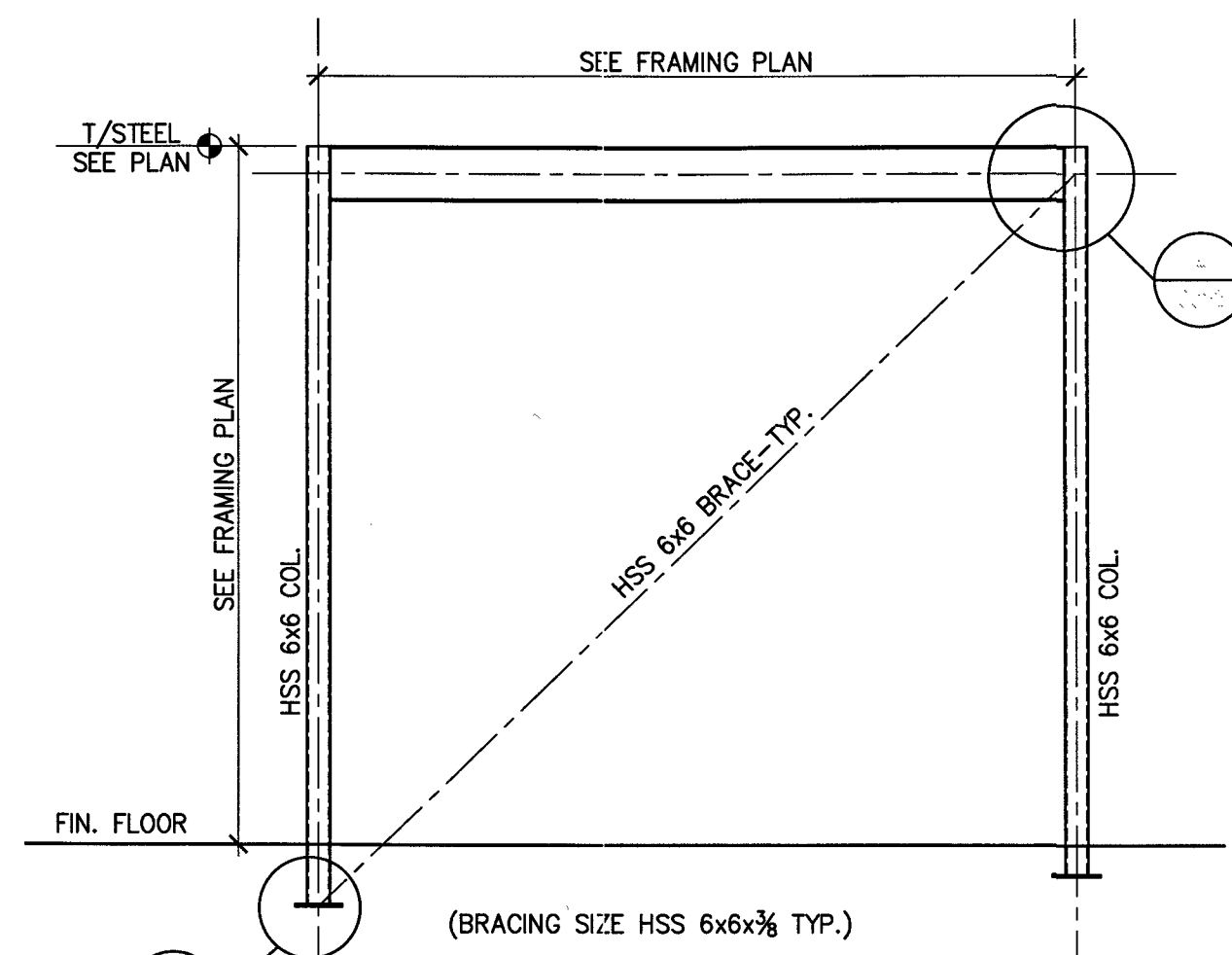
13 SECTION - PARAPET ABOVE ROOF
S301 $1\frac{1}{2}$ " = 1'-0"



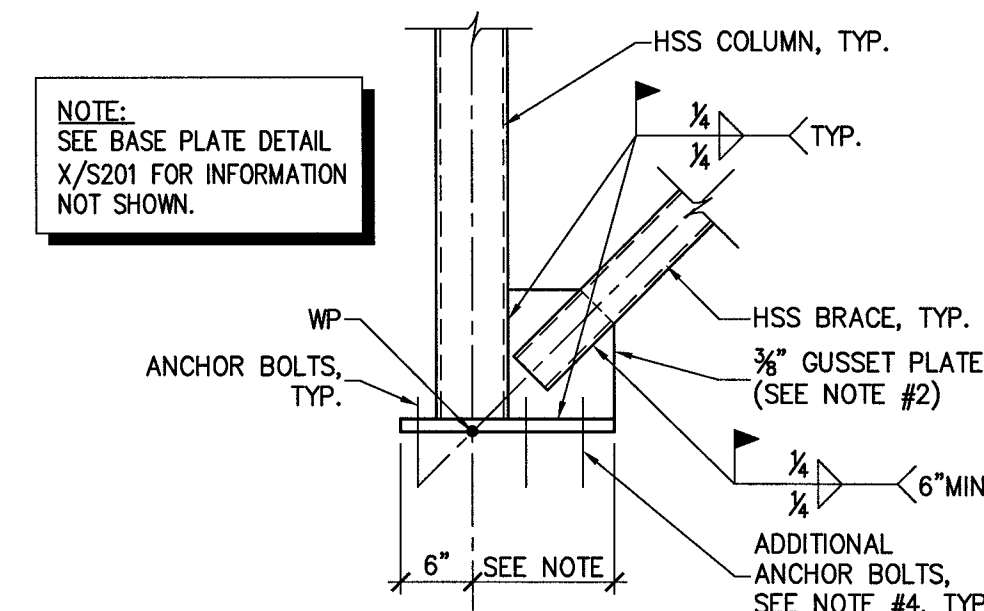
14 TYPICAL FRAMING AT KICKERS LOCATION
S301 $\frac{3}{4}$ " = 1'-0"



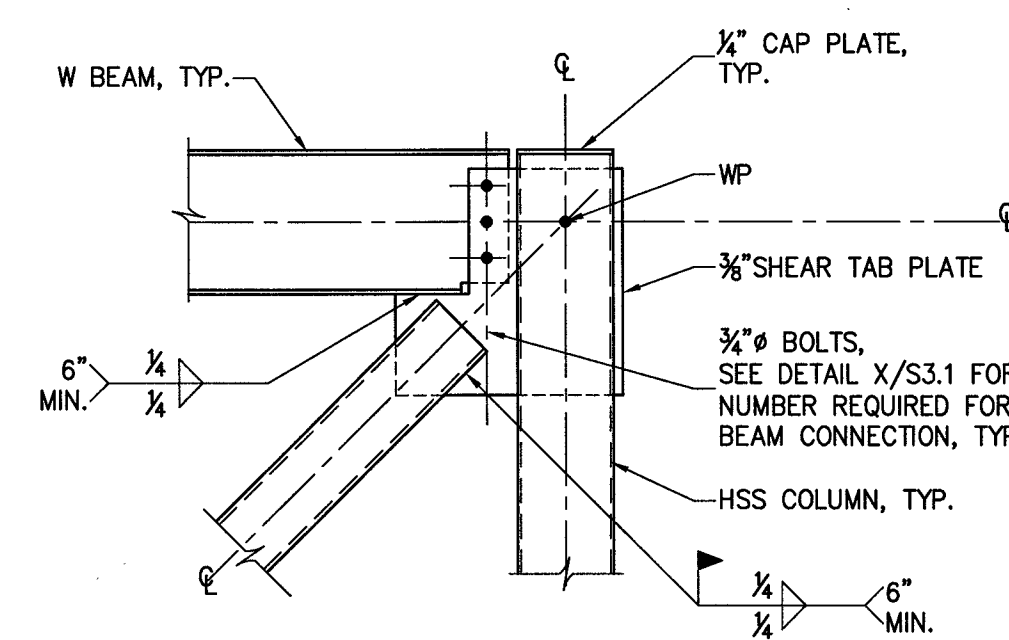
1 SECTION - SIDE WALL PARAPET
S302 3/4" = 1'-0"



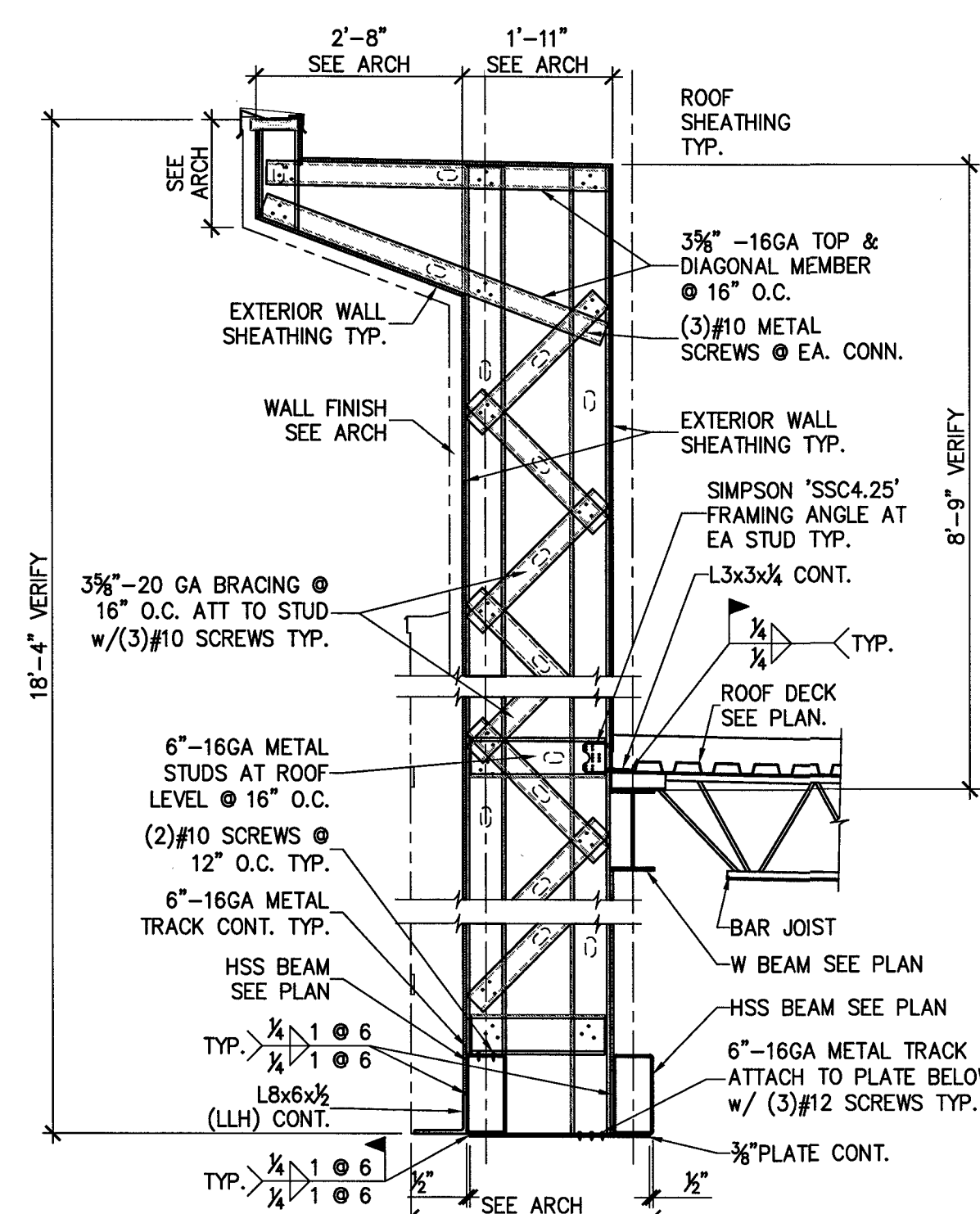
2 VERTICAL "X" BRACING ELEVATION
S302 1/4" = 1'-0"



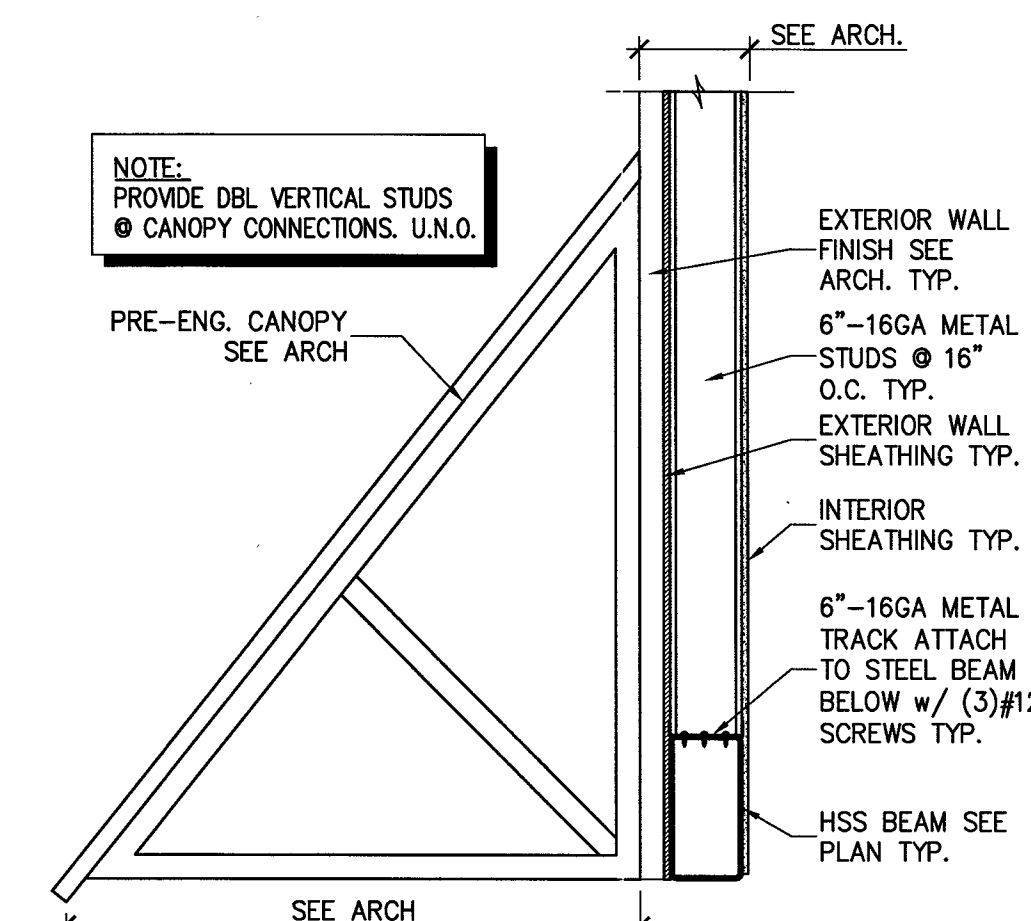
3 BRACING DETAIL AT BASE
S302 3/4" = 1'-0"



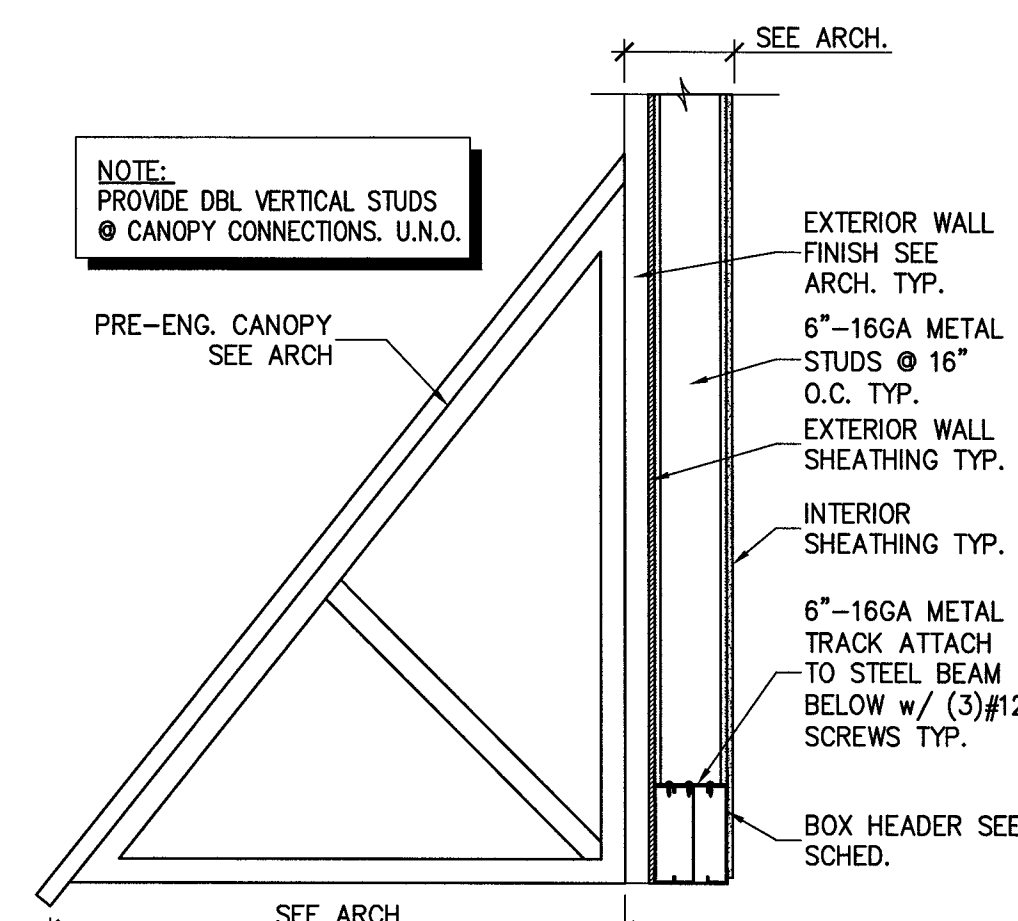
4 BRACING DETAIL AT BEAM
S302 3/4" = 1'-0"



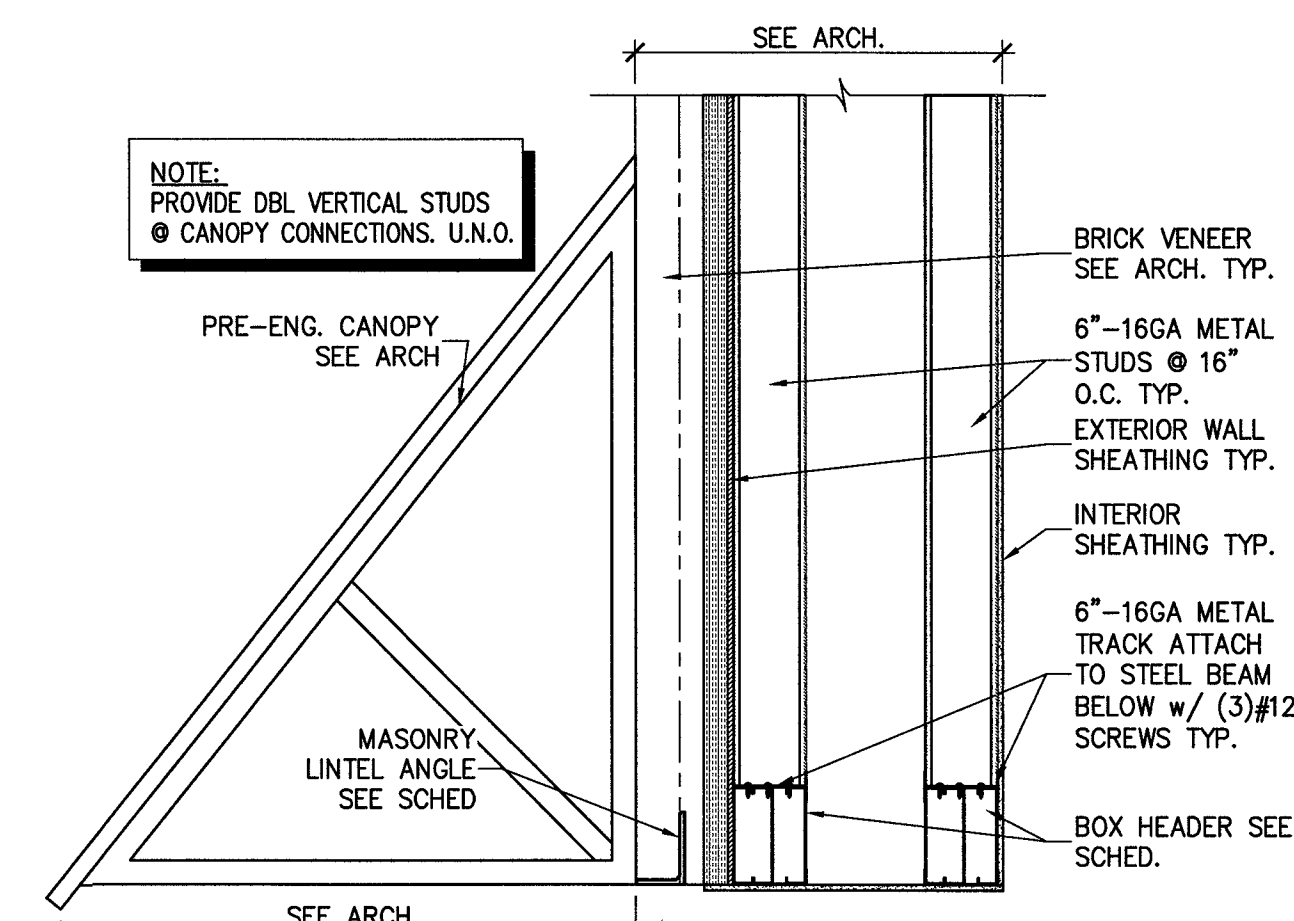
5 SECTION - TOWER AT FRONT ENTRY
S302 1/2" = 1'-0"



6 SECTION AT STOREFRONT
S302 3/4" = 1'-0"



7 SECTION AT STOREFRONT
S302 3/4" = 1'-0"



8 SECTION AT STOREFRONT
S302 3/4" = 1'-0"

GENERAL STRUCTURAL NOTES:

1. **GENERAL NOTES**
 - 1.1. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
 - 1.2. THE CONTRACTOR SHALL REPORT TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
 - 1.3. COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.
 - 1.4. VERIFY ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETCETERA, WITH EQUIPMENT SELECTED.
 - 1.5. VERIFY BUILDING LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY CONSTRUCTION IS STARTED ON THE PROJECT.
 - 1.6. DO NOT CUT, NOTCH, OR OTHERWISE MODIFY ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
 - 1.7. CUTTING OF STEEL MEMBERS AND INSTALLATION OF HOLES IN STEEL MEMBERS SHALL BE DONE BY CUTTING OR DRILLING. DO NOT USE TORCHES FOR CUTTING UNLESS APPROVED BY THE ENGINEER OF RECORD.
 - 1.8. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND EXISTING STRUCTURAL ELEMENTS.
2. **FOUNDATION**
 - 2.1. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
 - 2.2. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
 - 2.3. EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
 - 2.4. ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETCETERA, SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
 - 2.5. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
3. **REINFORCED CONCRETE MASONRY**
 - 3.1. LOAD-BEARING MASONRY PIERS OR WALLS, FOUNDATION WALLS, AND ANY OTHER MASONRY SO DESIGNATED ON THE DRAWINGS, ARE CONSIDERED TO BE STRUCTURAL MASONRY.
 - 3.2. COMPRESSIVE STRENGTH OF MASONRY UNITS:
 - SOLID CLAY UNITS 8250 PSI
 - CONCRETE UNITS 1900 PSI ON NET AREA
 - 3.3. MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F_m) IS 1,900 PSI.
 - 3.4. MORTAR SHALL BE TYPE 'S' ASTM C270.
 - 3.5. GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT ASTM C476. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3000 PSI. TO WHOM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE FILLING IS 6'-0". PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.
 - 3.6. REINFORCING GRADE AND DETAILS FOR MASONRY, SHALL BE AS THAT FOR CONCRETE. TIE IN REBAR IN POSITION, AND PLACE CONCRETE AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY. TIE WYTHES WITH HORIZONTAL REINFORCING AS SPECIFIED.
 - 3.7. ALL CELLS BELOW GRADE SHALL BE FULLY GROUTED WITH MASONRY GROUT.
 - 3.8. PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C. UNLESS OTHERWISE NOTED.
 - 3.9. PLACE ALL VERTICAL REINFORCING BARS IN CENTERS OF BLOCK CELLS UNLESS OTHERWISE NOTED.
 - 3.10. FILL ALL CELLS, AT VERTICAL REINFORCING, FULL HEIGHT WITH MASONRY GROUT.
 - 3.11. CONTRACTOR SHALL COORDINATE LOCATION OF ALL OPENINGS IN MASONRY. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
 - 3.12. ALL MASONRY WORK PERFORMED SHALL BE IN ACCORDANCE WITH ACI/ASCE 530. MASONRY CONSTRUCTION AND MATERIALS USED, SHALL CONFORM TO ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
 - 3.13. UNLESS OTHERWISE SHOWN, MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 40'-0" ON CENTER FOR BRICK AND OF 25'-0" FOR CMU. THE JOINT SHALL BE FORMED USING PVC MATERIAL CONFORMING TO ASTM D2287, TYPE PVC 654-4. COORDINATE LOCATION OF JOINTS WITH THE ARCHITECTURAL ELEVATIONS.
4. **CONCRETE**
 - 4.1. ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES UNLESS OTHERWISE NOTED, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f_c) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE.
 - 4.2. GROUT FOR BASE PLATES SHALL BE NON-METALLIC, NON-SHRINKABLE GROUT, AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH, AT 28 DAYS, OF 5000 PSI.
 - 4.3. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
 - 4.4. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH $\frac{3}{4}$ " x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
 - 4.5. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS, AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED, WITH A CLASS B TENSION SPLICE, AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.
 - 4.6. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING / DAMPROOFING DETAILS.
 - 4.7. ALL DONELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - 4.8. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.
 - 4.9. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL WALL / SLAB OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - 4.10. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
 - 4.11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
 - 4.12. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
 - 4.13. AT CORNERS AND INTERSECTIONS, PROVIDE BARS OF THE SAME NUMBER AND SIZE AS THE LONGITUDINAL BARS IN THE FOOTING.
 - 4.14. CONCRETE MATERIALS SHALL BE AS FOLLOWS:
 - 4.14.1. USE TYPE I/II PORTLAND CEMENT CONFORMING TO ASTM C150
 - 4.14.2. AGGREGATE SHALL CONFORM TO ASTM C33 (FINE AND COARSE AGGREGATES)
 - 4.14.3. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260
 - 4.14.4. PLASTICIZER CAN BE USED TO IMPROVE WORKABILITY IF REQUIRED
 - 4.15. CONCRETE MIX DESIGN:
 - 4.15.1. MAXIMUM WATER/CEMENT RATIO - 0.50 FOR SLAB, 0.55 FOR FOOTINGS AND OTHER CONCRETE UNLESS OTHERWISE NOTED.
 - 4.15.2. SLUMP SHALL BE 4 INCHES TO 6 INCHES (WITHOUT PLASTICIZER)
 - 4.15.3. AIR ENTRAINMENT SHALL BE 4% TO 6% (EXTERIOR CONCRETE)
 - 4.16. CONCRETE SLAB SHALL BE CURED USING A WATER-BASED CURING COMPOUND. CURING COMPOUND SHALL BE APPLIED TO ALL HORIZONTAL SURFACES, ONCE THE SURFACE WATER DISSIPATES AND THE SURFACE IS NOT MARRED BY WALKING, APPLY PER MANUFACTURER'S SPECIFICATIONS.
 - 4.17. CONDUCT SLUMP, AIR, AND STRENGTH TESTS OF CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
 - 4.17.1. SECURE SAMPLES IN ACCORDANCE WITH "METHOD OF SAMPLING FRESH CONCRETE" (ASTM C 172). MOLD AND CURE FIVE SPECIMENS FROM EACH SAMPLE IN ACCORDANCE WITH "METHOD OF MAKING AND CURING CONCRETE COMPRESSION AND FLEXURE SPECIMENS IN THE FIELD" (ASTM C 31). FIVE SPECIMENS COMPRISE ONE TEST. TEST TWO SPECIMENS AT 7 DAYS (ASTM C 39). TEST TWO SPECIMENS AT 28 DAYS IN ACCORDANCE WITH "METHOD OF TEST FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS" (ASTM C 39). TEST EVALUATION SHALL BE CONDUCTED IN ACCORDANCE WITH PROVISIONS OF ACI 318-05. KEEP ONE SPECIMEN IN RESERVE.
 - 4.17.2. MAKE ONE STRENGTH TEST FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF FOR EACH MIX DESIGN OF CONCRETE PLACED IN ONE DAY, EXCEPT THAT IN NO CASE SHALL A GIVEN MIX DESIGN BE REPRESENTED BY LESS THAN THREE TESTS.
5. **STRUCTURAL STEEL**
 - 5.1. DETAILING OF STRUCTURAL STEEL CONNECTIONS, MUST BE CONSISTENT WITH RECOGNIZED, PUBLISHED METHODS, SUCH AS THE "AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION", "DETAILING FOR STEEL CONSTRUCTION", OR "VOLUME II CONNECTIONS MANUAL OF STEEL CONSTRUCTION".
 - 5.2. MEMBERS AND CONNECTIONS NOT FULLY DEVELOPED ON THE CONTRACT DRAWINGS, AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT SHOWN ON THE CONTRACT DRAWINGS, SHALL BE DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, AND DETAILED ON THE SHOP DRAWINGS.
 - 5.3. ALTERNATIVE CONNECTION DETAILS, MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR, ONLY IF ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS, PREPARED AND SEALED BY AN ENGINEER, LICENSED IN THE PROJECT'S JURISDICTION. FAILURE TO SUBMIT SUCH CALCULATIONS FOR REVIEW, CONCURRENT WITH SHOP DRAWING ERECTION PLANS AND DETAILS, WILL BE CAUSE FOR REJECTION OF THAT SUBMITTAL.
 - 5.4. CALCULATIONS FOR DETAILS, MUST SHOW A RATIONAL ANALYSIS OF A COMPLETE LOAD PATH, INCLUDING LOCAL EFFECTS ON WEBS, FLANGES ETC., OF THE CONNECTED MEMBERS AND THE DEVICES (PLATES, SEATS, BRACKETS, BOLTS, WEBS, ETC.) AFFECTING ALL CONNECTIONS.
 - 5.5. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION, SHALL CONFORM TO THE "AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (MARCH 9, 2005), AND THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (MARCH 18, 2006).
 - 5.6. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, AWS D1.1. ELECTRODES FOR SHOP AND FIELD WELDS, SHALL BE CLASS E70XX. ALL WELDING SHALL BE DONE BY QUALIFIED, CERTIFIED WELDERS, PER THE ABOVE STANDARD.
 - 5.7. SHOP AND FIELD TESTING OF WELDS AND BOLTS, SHALL BE PERFORMED AS OUTLINED IN THE SPECIFICATIONS.

- 5.8. ALL FILLET WELDS SHALL BE A MINIMUM OF $\frac{1}{4}$ INCH, UNLESS OTHERWISE NOTED.
- 5.9. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS, FOR THE WORK OF OTHER TRADES, WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 5.10. ALL STRUCTURAL STEEL SHAPES USED, SHALL BE IN ACCORDANCE WITH ASTM A992 SPECIFICATIONS ($F_y = 50$ KSI). ALL STRUCTURAL TUBING USED, SHALL BE IN ACCORDANCE WITH ASTM A500, GRADE B ($F_y = 48$ KSI). ALL PIPE USED, SHALL BE IN ACCORDANCE WITH ASTM A53 ($F_y = 35$ KSI). ALL MISCELLANEOUS STEEL USED, SHALL BE IN ACCORDANCE WITH ASTM A36 ($F_y = 36$ KSI).
- 5.11. ALL FIELD BOLTED CONNECTIONS, SHALL BE BEARING TYPE CONNECTIONS (THREADS INCLUDED IN THE SHEAR PLANE), WITH $\frac{3}{4}$ " DIAMETER, ASTM A325 HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED ON THE DRAWING. ALL BOLTS SHALL BE TIGHTENED TO A "SNUG-TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
- 5.12. FOR ALL FLOOR AND ROOF OPENINGS, THE CONTRACTOR SHALL VERIFY OPENING LOCATIONS WITH EQUIPMENT SELECTED, AND MAKE ANY NECESSARY MODIFICATIONS AT NO ADDITIONAL COST. IT IS THE RESPONSIBILITY OF FABRICATOR, TO RECEIVE ALL NECESSARY INFORMATION, PRIOR TO FABRICATION OF ANY STEEL.
- 5.13. ALL STRUCTURAL STEEL WHICH IS TO BE SPRAYED WITH FIREPROOFING SHALL NOT BE PRIMED OR PAINTED. STEEL WHICH IS NOT SPRAYED WITH FIREPROOFING SHALL BE PRIMED AND PAINTED. DO NOT PAINT SURFACES TO BE EMBEDDED IN CONCRETE.
- 5.14. BEAM END CONNECTIONS, SHALL BE DESIGNED FOR A MINIMUM GRAVITY LOAD OF 50% U.D.L., PER THE "AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION", UNLESS OTHERWISE INDICATED.
- 5.15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED, TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT, UNTIL ALL PERMANENT BRACING, ROOF & WALL SHEATHING, OR METAL ROOF DECK ARE IN PLACE, TO RESIST LATERAL MOVEMENT OF THE FRAME.
- 5.16. ALL ANCHOR BOLTS SHALL BE ASTM A1554 OR 36 (36KSI)

6. OPEN WEB STEEL BAR JOISTS

- 6.1. DESIGN, FABRICATION, AND ERECTION OF JOISTS, SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
- 6.2. SIZE AND SPACING OF TOP AND BOTTOM CHORD BRIDGING, SHALL BE IN ACCORDANCE WITH SJI SPECIFICATIONS. FOR ROOF JOISTS, SPACE BRIDGING TO LIMIT L/r OF BOTTOM CHORD TO 200. JOIST MANUFACTURER TO VERIFY BRIDGING REQUIREMENTS FOR UPLIFT.
- 6.3. WELD JOISTS TO STEEL SUPPORTS WITH A $\frac{3}{4}$ " x 2" LONG FILLET WELD, EACH SIDE OF THE JOIST, UNLESS OTHERWISE NOTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, AS SPECIFIED UNDER THE 'STRUCTURAL STEEL' SECTION OF THESE GENERAL STRUCTURAL NOTES.
- 6.4. CONNECT DECK TO JOISTS AS DETAILED AND SPECIFIED.
- 6.5. DESIGN JOISTS FOR A NET UPLIFT OF 20 PSF.
- 6.6. ANY LOADS ABOVE 100 POUNDS, AND UP TO 250 POUNDS SHALL BE SUPPORTED FROM A JOIST PANEL POINT. ANY LOAD IN EXCESS OF 250 POUNDS, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR, AND MOUNTED AS PER THE JOIST ERECTION APPROVAL DRAWINGS. NO LOADS IN EXCESS OF 250 POUNDS MAY BE HUNG FROM THE JOISTS, AT ANY PANEL POINT, WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

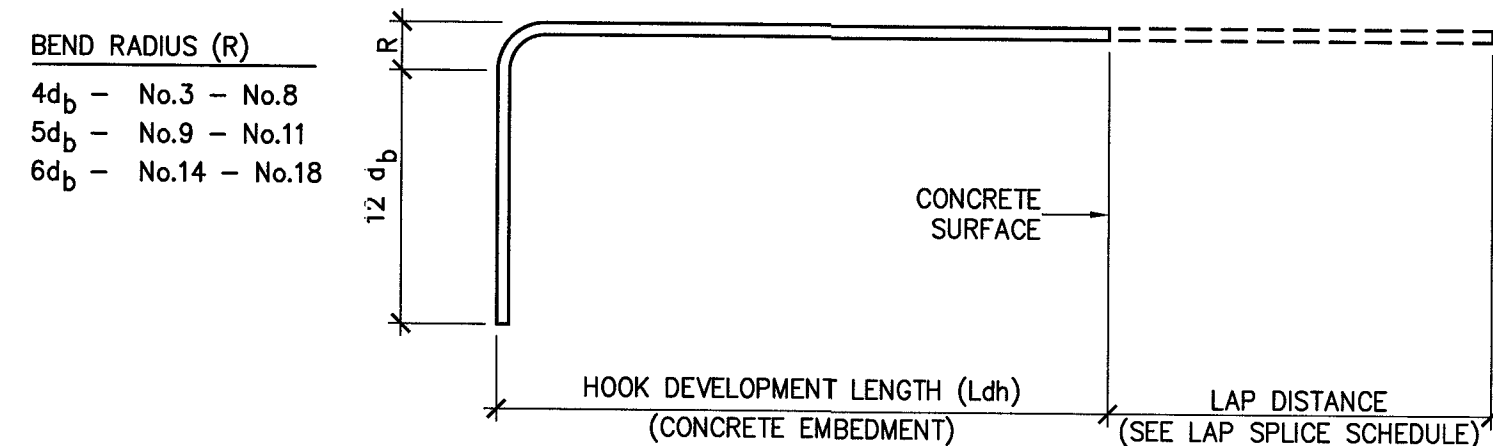
7. COLD FORMED METAL FRAMING

- 7.1. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE MANUFACTURER'S SPECIFICATIONS.
- 7.2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) 'SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS', LATEST EDITION.
- 7.3. ALL STRUCTURAL MEMBERS SHALL BE FORMED OF CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENT OF ASTM-A446, WITH A MINIMUM YIELD STRENGTH OF 40 KSI.
- 7.4. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED AND CONFORM TO ASTM-A525.
- 7.5. INSTALL JACK AND KING STUDS AT ALL WINDOW AND DOOR OPENINGS IN EXTERIOR WALLS AND INTERIOR LOAD-BEARING WALLS PER THE BOX BEAM HEADER SCHEDULE.
- 7.6. ALL EXTERIOR STUD WALLS ARE LOAD BEARING UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON CONNECTIONS. ALL EXTERIOR WALL STUDS SHALL BE 6", 16 GA., SPACED AT 16" O.C., UNLESS OTHERWISE NOTED. STUD TRACK GAUGE SHALL MATCH THE STUD GAUGE SPECIFIED UNLESS OTHERWISE NOTED.
- 7.7. BOTTOM TRACK SHALL BE ATTACHED WITH 'HILTI X-U' POWDER ACTUATED FASTENERS (0.157" SHANK DIAMETER) WITH 1 $\frac{3}{4}$ " EMBEDMENT AT 12" O.C.
- 7.8. ALL STUDS INSTALLED BELOW STEEL BEAMS OR OTHER LOAD BEARING STRUCTURAL MEMBERS SHALL BE ATTACHED WITH A CONTINUOUS DEFLECTION TRACK OR DEFLECTION CLIPS EQUIVALENT TO 'VERTITRACK' OR 'VERTICLIP' FROM 'THE STEEL NETWORK'.

8. METAL ROOF DECK

- 8.1. METAL ROOF DECK SHALL BE CUT TO PROVIDE A MINIMUM THREE-SPAN CONDITION.
- 8.2. METAL ROOF DECK SHALL BE SECURELY WELDED THROUGH THE DECK ONTO THE SUPPORTING MEMBERS WITH $\frac{3}{8}$ " DIAMETER PUDDLE WELDS AT 12" O.C. (36/4 PATTERN). WELDING WASHERS ARE REQUIRED FOR ALL DECK WITH A THICKNESS LESS THAN 22 GA. USE SPACING OF 6" O.C. AT ROOF PERIMETER.
- 8.3. IN LIEU OF WELDING, METAL ROOF DECK MAY BE ATTACHED TO SUPPORTING MEMBERS WITH #12 SCREWS USING THE SAME PATTERN AS FOR WELDING.
- 8.4. ALL METAL DECK SIDE-LAPS SHALL BE FASTENED WITH #12 SCREWS AT 12" O.C., MAXIMUM.
- 8.5. ALL METAL DECK SHALL BE FINISHED WITH A GALVANIZED COATING, CONFORMING TO ASTM A653 G60.
- 8.6. DECK EXPOSED TO WEATHER SHALL CONFORM TO ASTM A653 G90.
- 8.7. PROVIDE A MINIMUM 1 $\frac{1}{2}$ " DECK END BEARING (OR PER MANUFACTURER'S RECOMMENDATIONS IF GREATER). ROOF DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

MOMENT OF INERTIA, I_x (BOTTOM OF DECK)	0.155 in ⁴ /FT. WIDTH
SECTION MODULUS, S_x (BOTTOM OF DECK)	0.186 in ³ / FT. WIDTH
MOMENT OF INERTIA, I_y (TOP OF DECK)	0.183 in ⁴ /FT. WIDTH
SECTION MODULUS, S_y (TOP OF DECK)	0.192 in ³ /FT. WIDTH



STANDARD HOOKS IN TENSION (PER ACI 318-02)				
HOOK DEVELOPMENT LENGTH L_{dh} (INCHES)				
BAR SIZE	f_c 3000 psi	f_c 4000 psi	f_c 5000 psi	
#3	9	7	7	
#4	11	10	9	
#5	14	12	11	
#6	17	15	13	
#7	19	17	15	

NOTES:

1. CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
2. BAR YIELD STRENGTH (f_y) IS 60 KSI.
3. SIDE COVER REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
4. TIE OR STIRRUP REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
5. REDUCTION OF EXCESS REINFORCEMENT IS NOT TAKEN.
6. HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

d_b = BAR DIAMETER

CONCRETE REBAR SPLICE SCHEDULE			
BAR SIZE	LAP LENGTH (in.)		
	f_c = 3000 psi	f_c = 4000 psi	f_c = 5000 psi
#4	22	19	17
#5	28	24	21
#6	32	29	26
#7	48	42	37

NOTES:

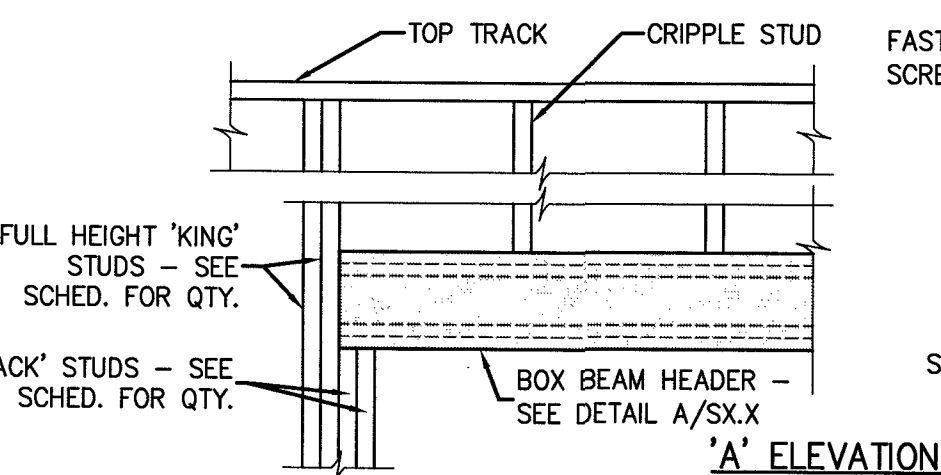
1. CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
2. BAR YIELD STRENGTH (f_y) IS 60 KSI.
3. BAR SPACING AND COVER REQUIREMENTS OF ACI SECTION 25.4.2.2 ARE ASSUMED TO BE MET. IF NOT, MULTIPLY LENGTHS IN TABLE BY 1.5.
4. REDUCTION OF EXCESS REINFORCEMENT NOT TAKEN.
5. IF MORE THAN 12" OF FRESH CONCRETE IS CAST IN MEMBER BELOW HORIZONTAL SPLICE, MULTIPLY LENGTHS IN TABLE BY 1.3.

MASONRY VENEER LINTEL SCHEDULE		
OPENING DIMENSION	ANGLE SIZE	ORIENTATION
0'-0" THRU 4'-0"	L 4 x 4 x $\frac{3}{8}$	N/A
4'-1" THRU 6'-0"	L 4 x 4 x $\frac{3}{8}$	N/A
6'-1" THRU 8'-0"	L 6 x 4 x $\frac{3}{8}$	LLV
8'-1" THRU 10'-0"	L 6 x 4 x $\frac{3}{8}$	LLV
10'-1" THRU 12'-0"	L 7 x 4 x $\frac{3}{8}$	LLV
-	-	-

NOTES:

1. PROVIDE LOOSE STEEL ANGLE LINTELS FOR ALL MASONRY VENEER OPENINGS, PER ABOVE DATA UNLESS NOTED OTHERWISE.
2. PROVIDE MINIMUM OF 8" BEARING FOR ALL LINTELS UNLESS NOTED OTHERWISE.
3. COORDINATE HORIZONTAL LEG SIZE WITH ARCHITECTURAL DRAWINGS. SIZES MAY NEED TO BE CHANGED TO ACCOMMODATE AIR SPACE, INSULATION AND OTHER WALL COMPONENTS.

EXPOSED CONCRETE FINISH SCHEDULE		
AREA	FINISH	COMMENTS
ALL EXTERIOR WALLS, CURBS, UNLESS OTHERWISE NOTED	SMOOTH FORM	-
EXTERIOR CONCRETE PAVEMENT, SIDEWALKS	COARSE BROOM	-
SLAB ON GRADE	TROWEL	-
EXT. EQUIP. PADS	COARSE BROOM	-



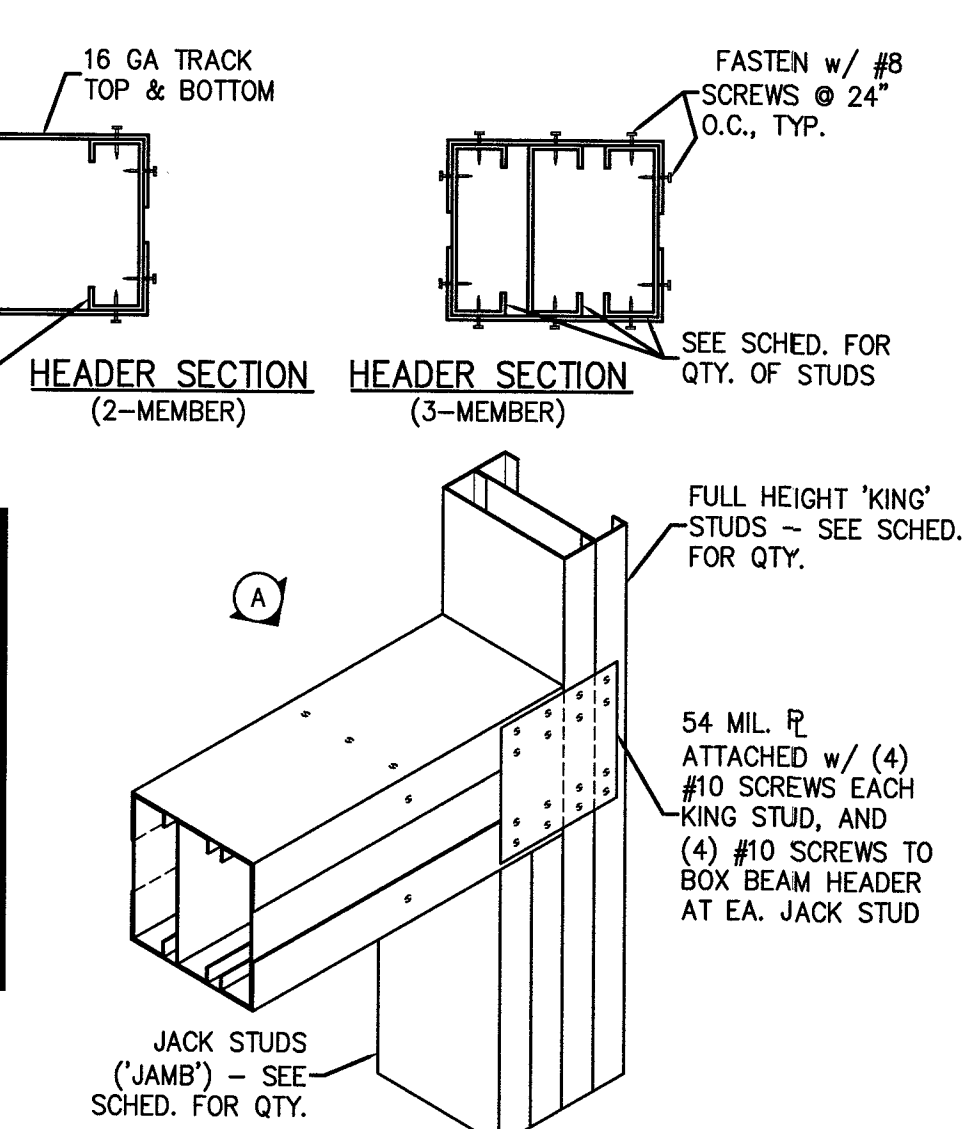
BOX HEADER BEAM SCHEDULE			
OPENING WIDTH	JACK STUD QUANTITY	KING STUD QUANTITY	HORIZ. MEMBER QTY. & CONFIG.
0'-0" to 4'-0"	1	2	(3) 6" x 16 GA. OR (2) 8" x 16 GA.
4'-1" to 8'-0"	2	3	(3) 8" x 16 GA. OR (2) 10" x 16 GA.
8'-1" to 12'-0"	3	4	(3) 10" x 16 GA.

NOTES:

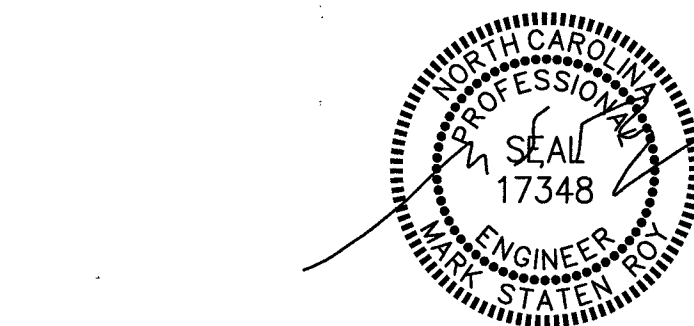
1. USE INFORMATION IN THIS SCHEDULE UNLESS OTHERWISE NOTED ON PLAN.
2. SEE GENERAL STRUCTURAL NOTES, SECTION FOR 'COLD FORMED METAL FRAMING' FOR ADDITIONAL INFORMATION.

1 TYP. METAL STUD BOX BEAM DETAIL
S401 3/4" = 1'-0"

CONCRETE MATERIALS SCHEDULE		
LOCATION	MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS)	REMARKS
FOUNDATIONS	3000 PSI	-
SLAB ON GRADE	4000 PSI	-
CONCRETE FOR MASONRY CORES, BOND BEAMS	3000 PSI	ASTM C476 GROUT
MISCELLANEOUS	3000 PSI	-



JACK STUDS ('JAMB') - SEE SCHED. FOR QTY.



RPA ENGINEERING, P.A.	
Structural Engineering Solutions	
Engineering License Certificate No. C-2734	
1 Commerce Square, Suite 202 Washington, NC 27889	Phone : 252-321-6027 Fax : 252-355-2179
RPA Project No.: 2026067	



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ESENSOY MEDICAL CENTER
800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS

PROJECT #: 26-121
DATE: 05-31-2026
DRAWN BY: RP/AMSR
CHECKED BY: RPA/GBP

DESIGN CRITERIA,
STRUCTURAL NOTES
& SCHEDULES

S401

ESENSOY MEDICAL CENTER

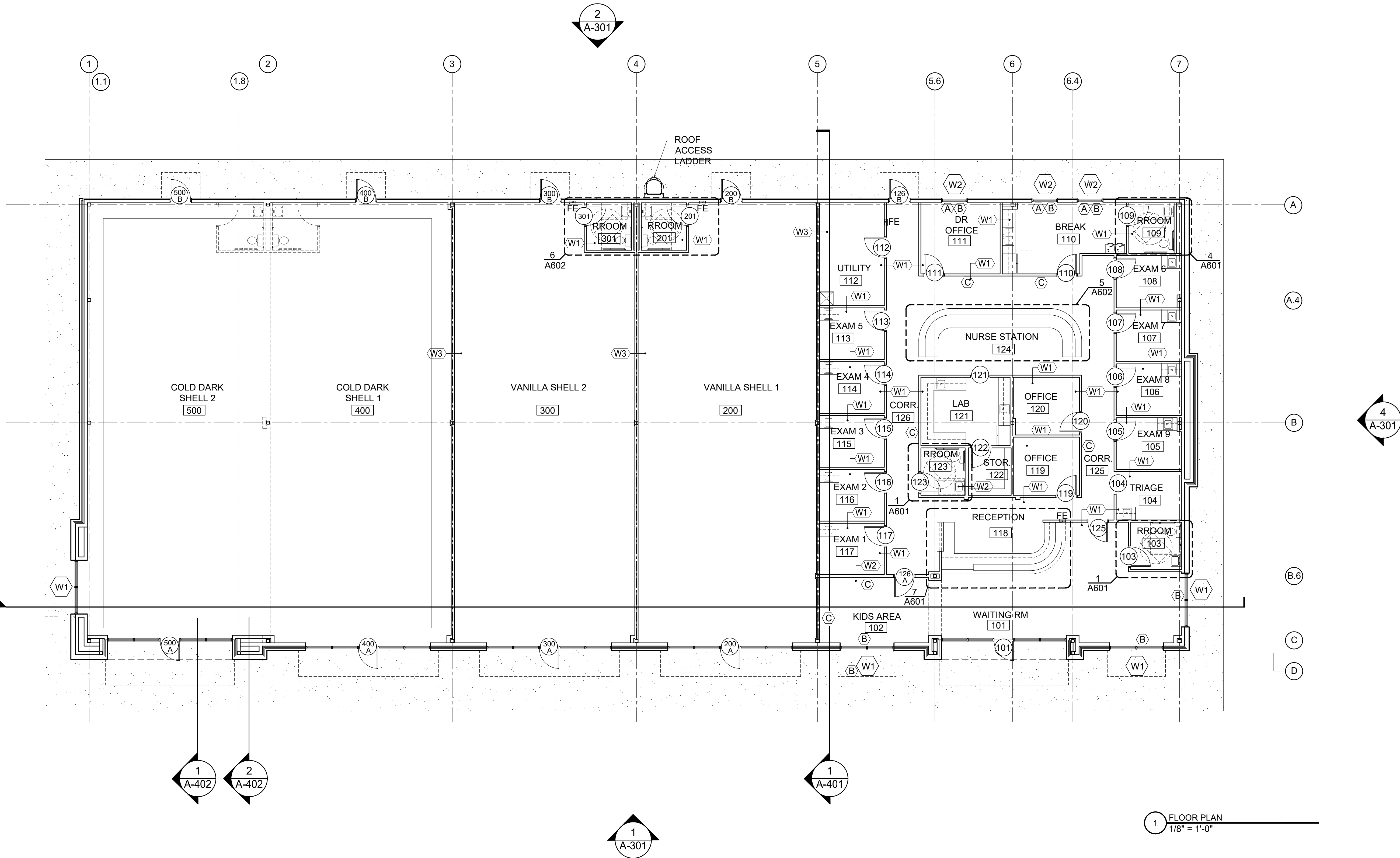
800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS					

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

FLOOR PLAN

A-201

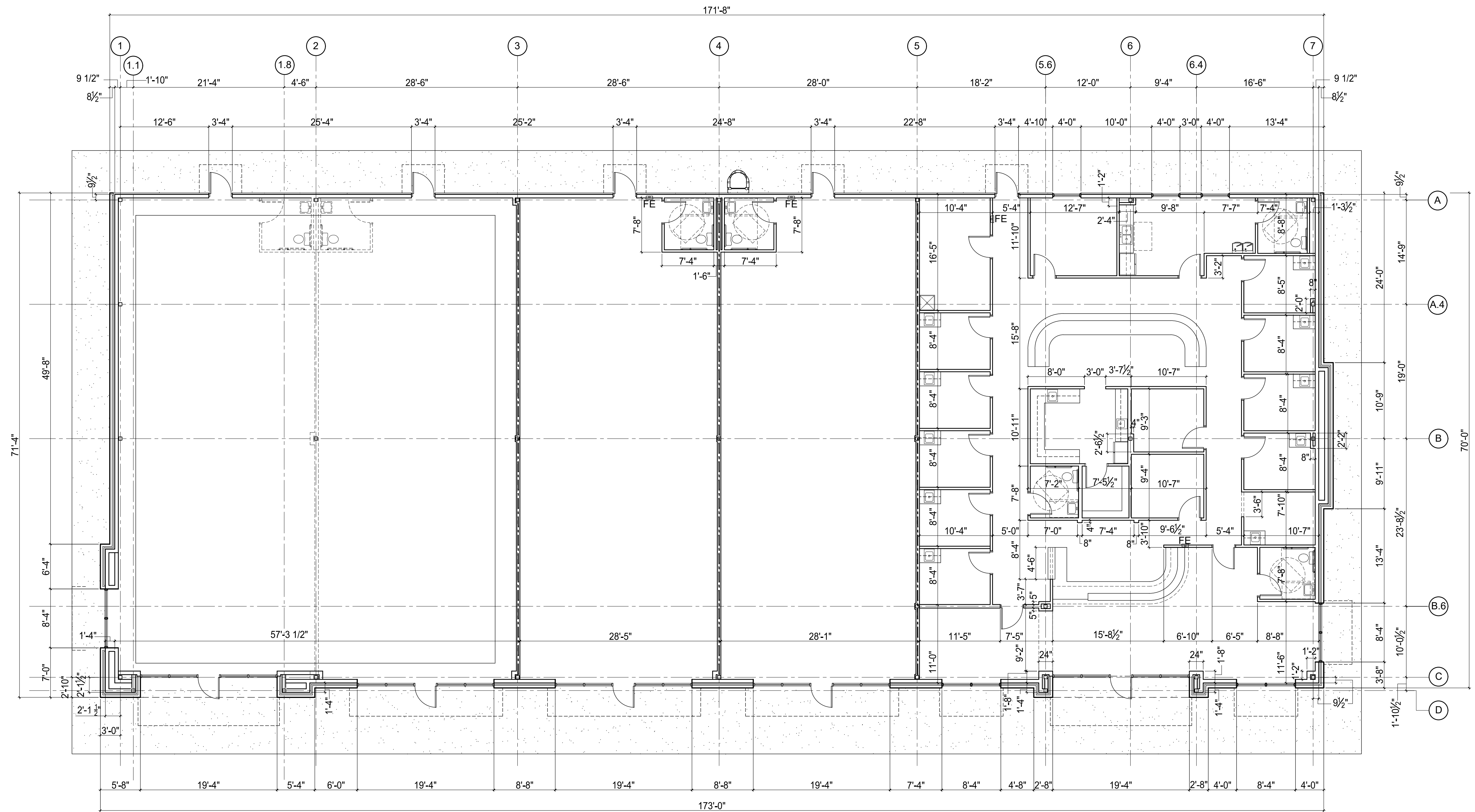


CONSTRUCTION NOTES:

- (A) PROVIDE CORIAN WINDOW SILL AT ALL WINDOWS IN PEDIATRIC DOCTOR TENANT SPACE. COLOR TO BE STANDARD WHITE.
- (B) PROVIDE WINDOW BLINDS IN PEDIATRIC DOCTOR TENANT SPACE.
- (C) PROVIDE IMAGINATIVE, ENGAGING CHILD ORIENTED PAINTED MURAL, LACEY CRIME ART. 207.485.8191. ARCHITECT TO WORK WITH ARTIST AND OWNER TO CREATE THE FINAL DESIGN.

GENERAL NOTES:

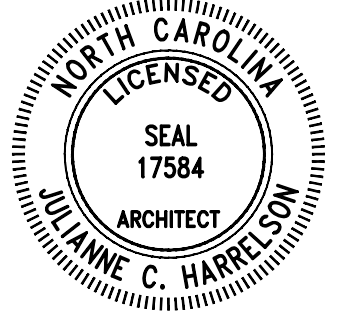
- 1) DO NOT SCALE DRAWING.
- 2) TYPICAL DIMENSIONS ARE TO FACE OF STUD, CONCRETE MASONRY UNIT, OR CENTER LINE OF COLUMN.
- 3) ALL NEW CASEWORK IS SUPPLIED BY GC.
- 4) ALL APPLIANCES PROVIDED BY GC.
- 5) DOORS 24" TO CENTERLINE FROM FACE OF CLOSEST WALL UNLESS OTHERWISE NOTED.
- 6) SOLID WOOD BLOCKING TYPICAL BEHIND ALL CASEWORK, PARTITIONS, SMART BOARDS, ACCESSORIES, SHELVING, FIXTURES, TVS, HAND SINKS, RESTROOM ACCESSORIES AND WATER FOUNTAINS - BLOCKING TO BE SUPPLIED AND INSTALLED BY FRAMING CONTRACTOR.
- 7) B/O = BY OTHERS
- 8) TV AND ASSOCIATED WALL MOUNTS FURNISHED BY TENANT AND INSTALLED BY GC.



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



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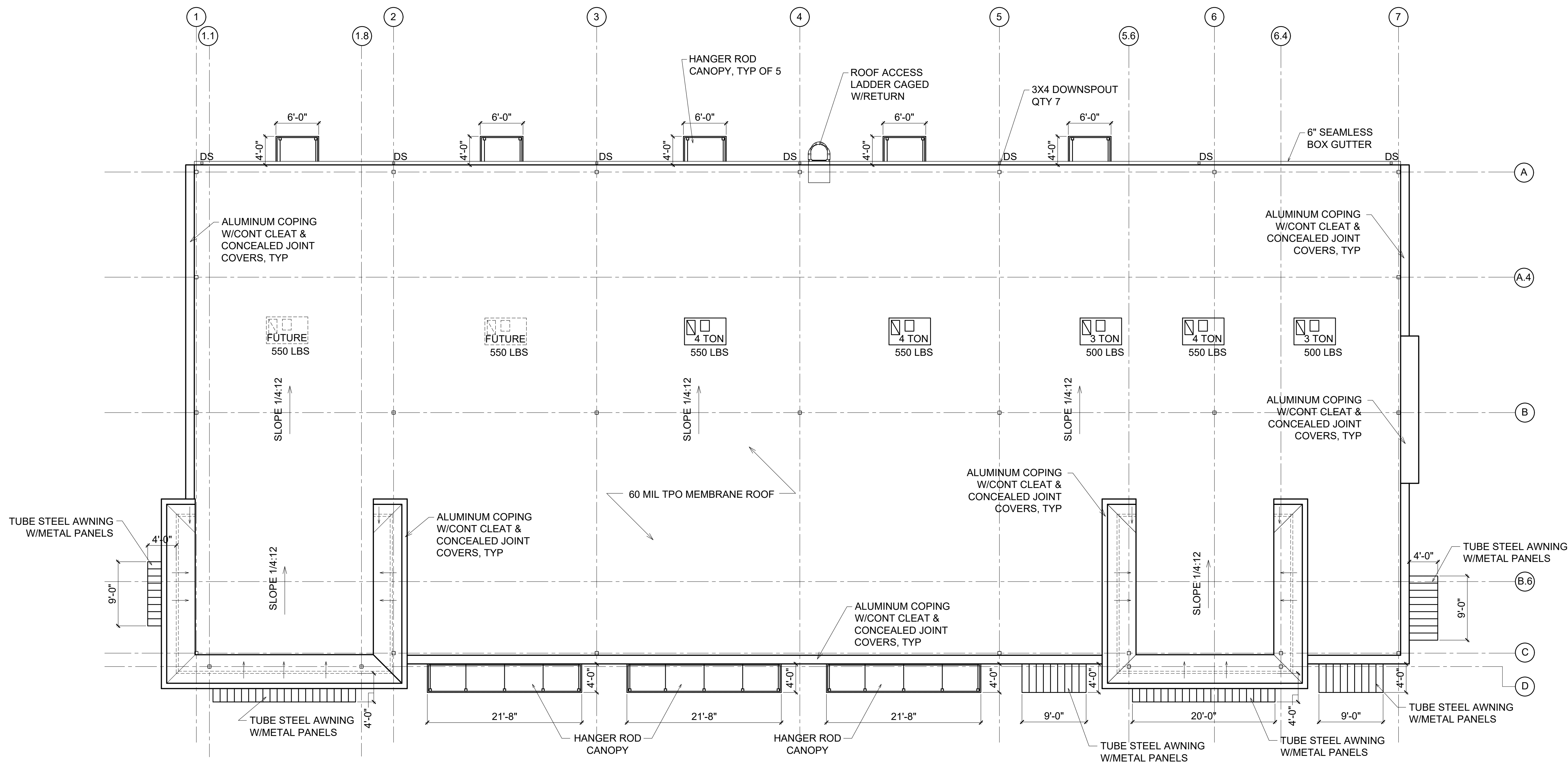
REVISIONS



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DATE: 5.30.26
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DIMENSIONED
FLOOR PLAN

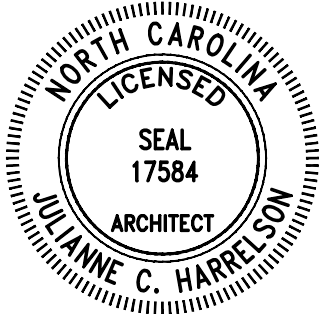
A-202



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



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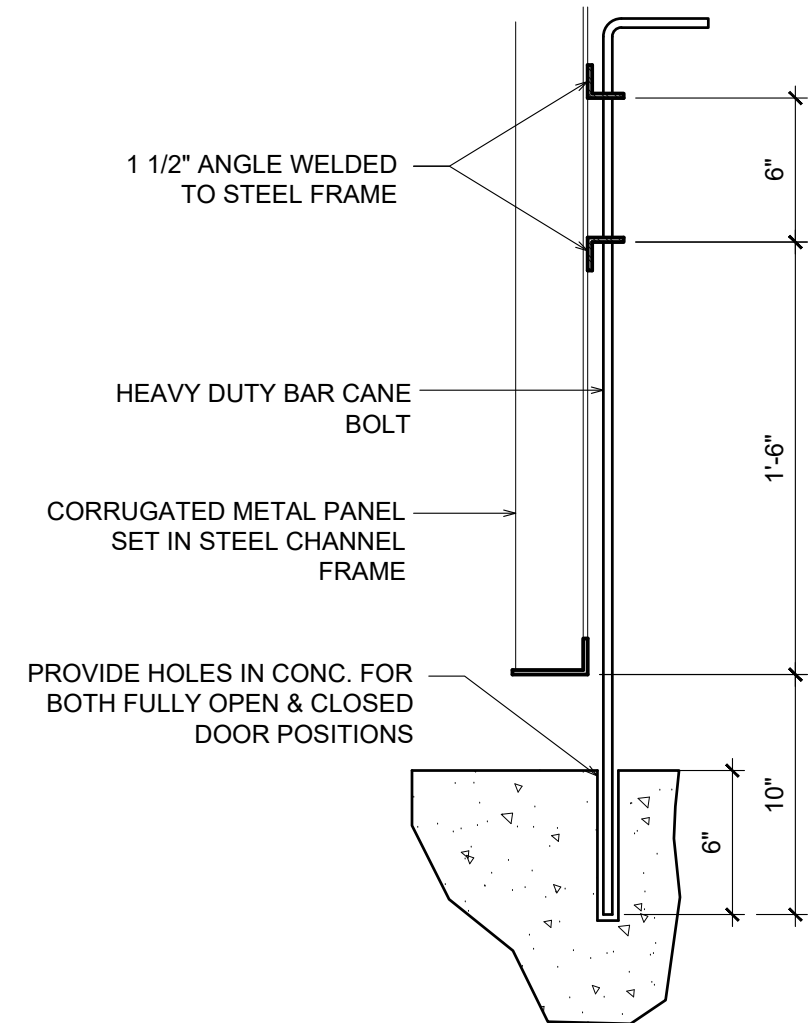
REVISIONS

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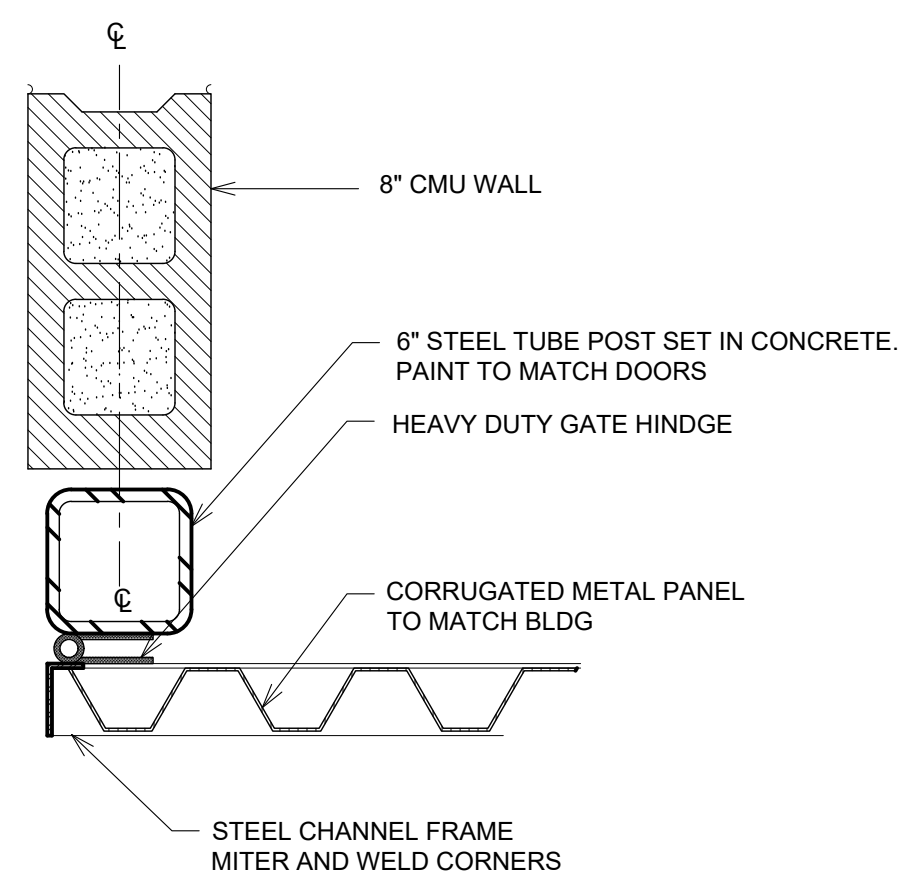
PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

ROOF PLAN

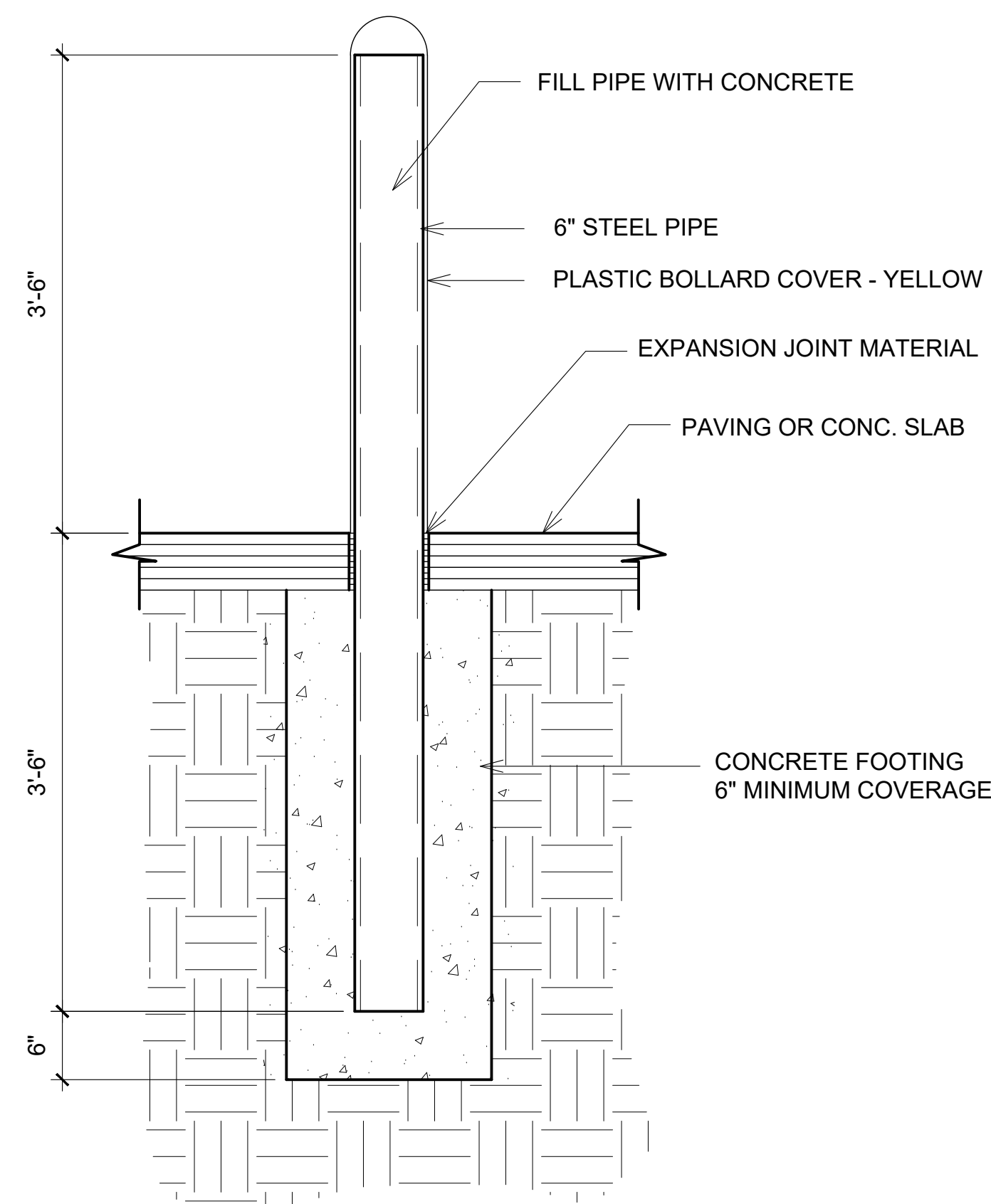
A-203



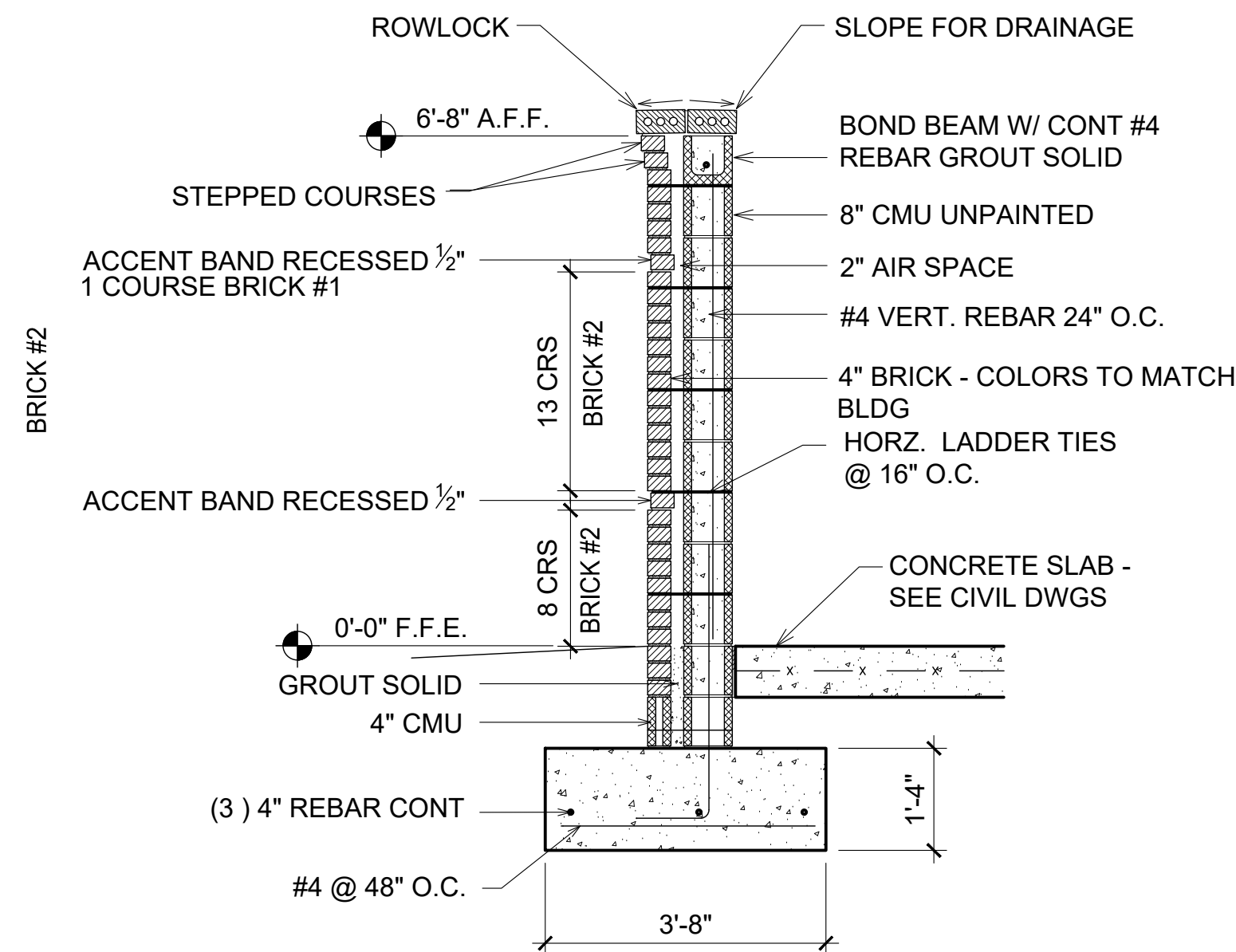
6 SECTION
1 1/2" = 1'-0"



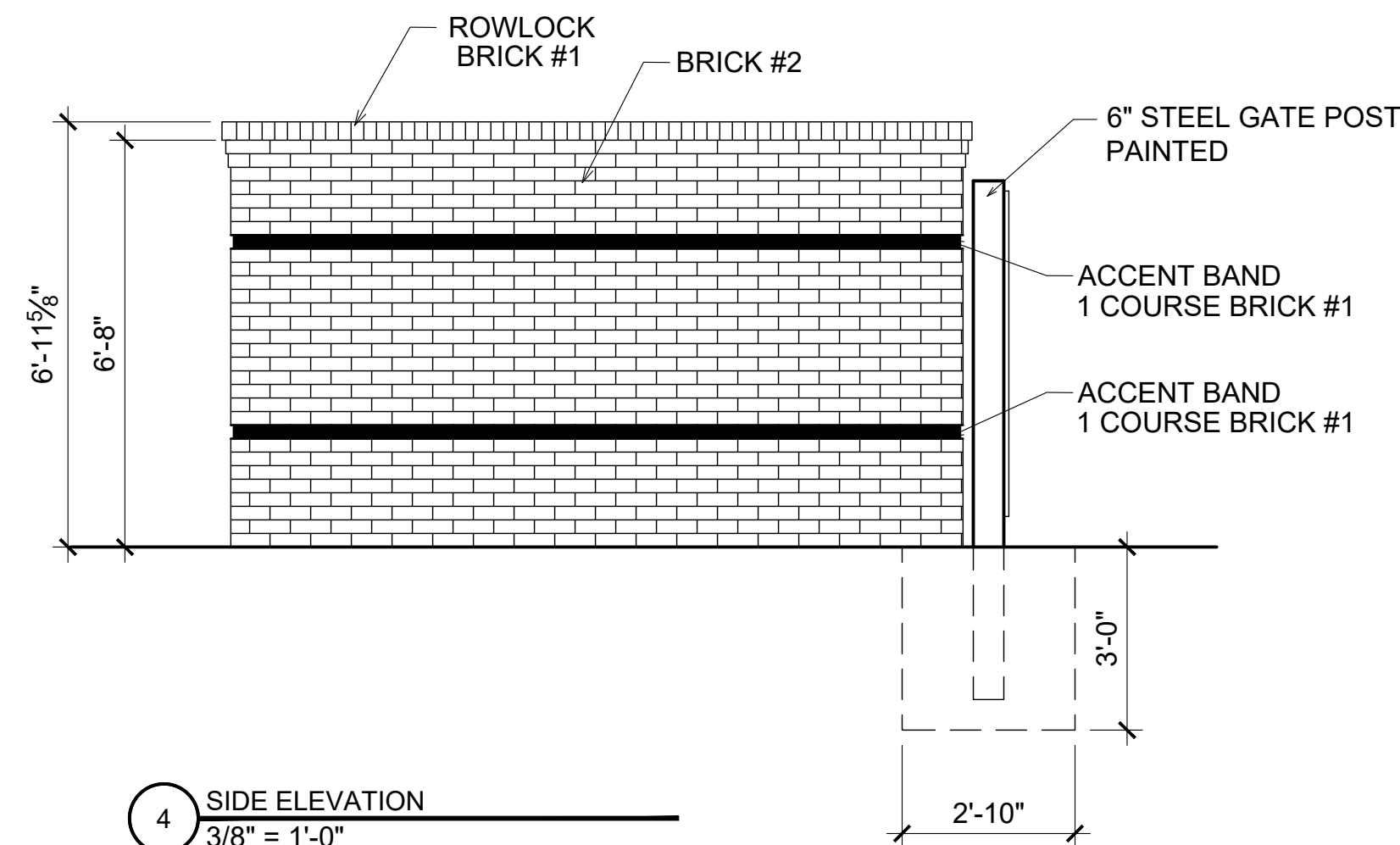
7 SECTION
1 1/2" = 1'-0"



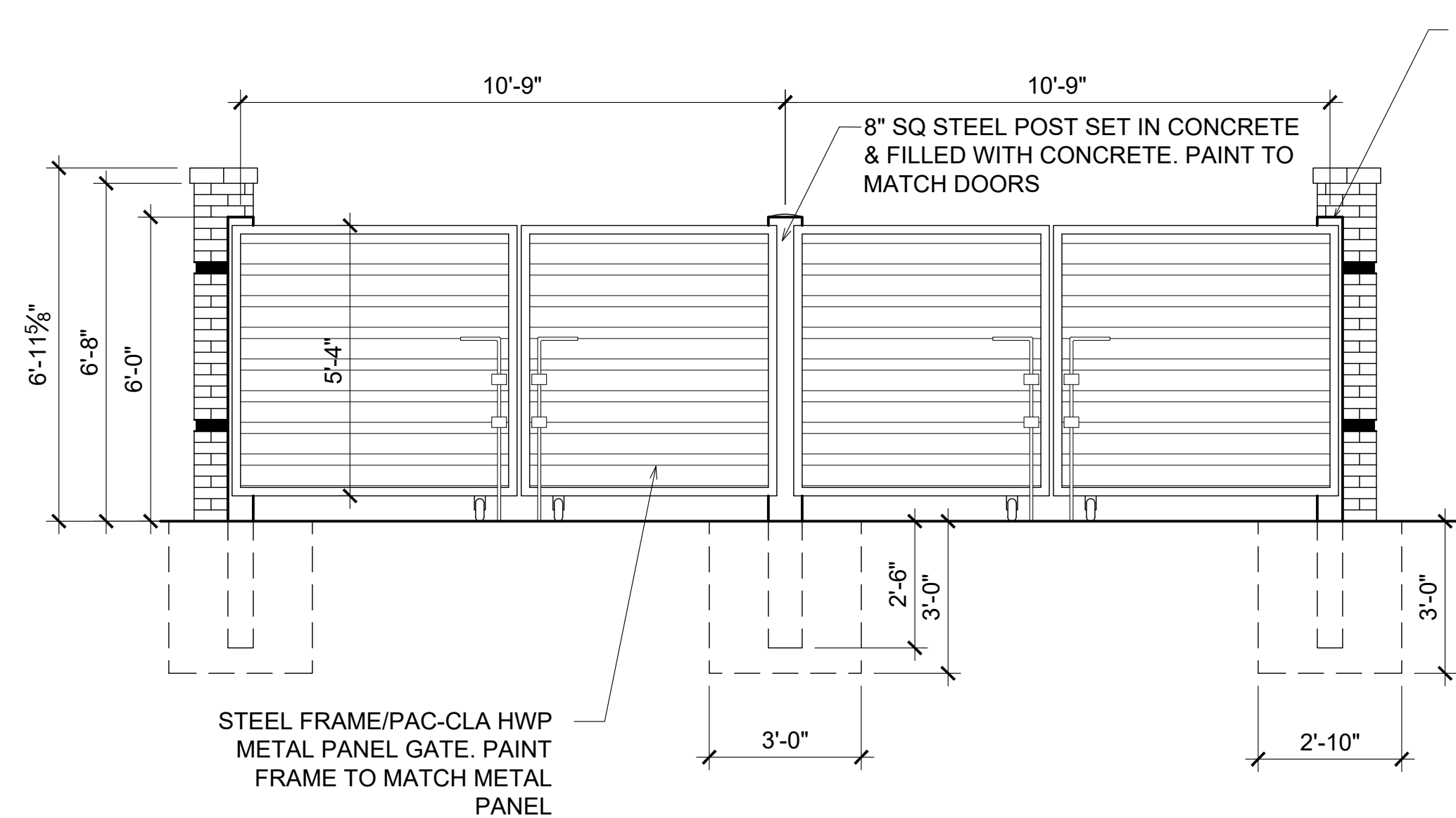
8 BOLLARD DETAIL
1" = 1'-0"



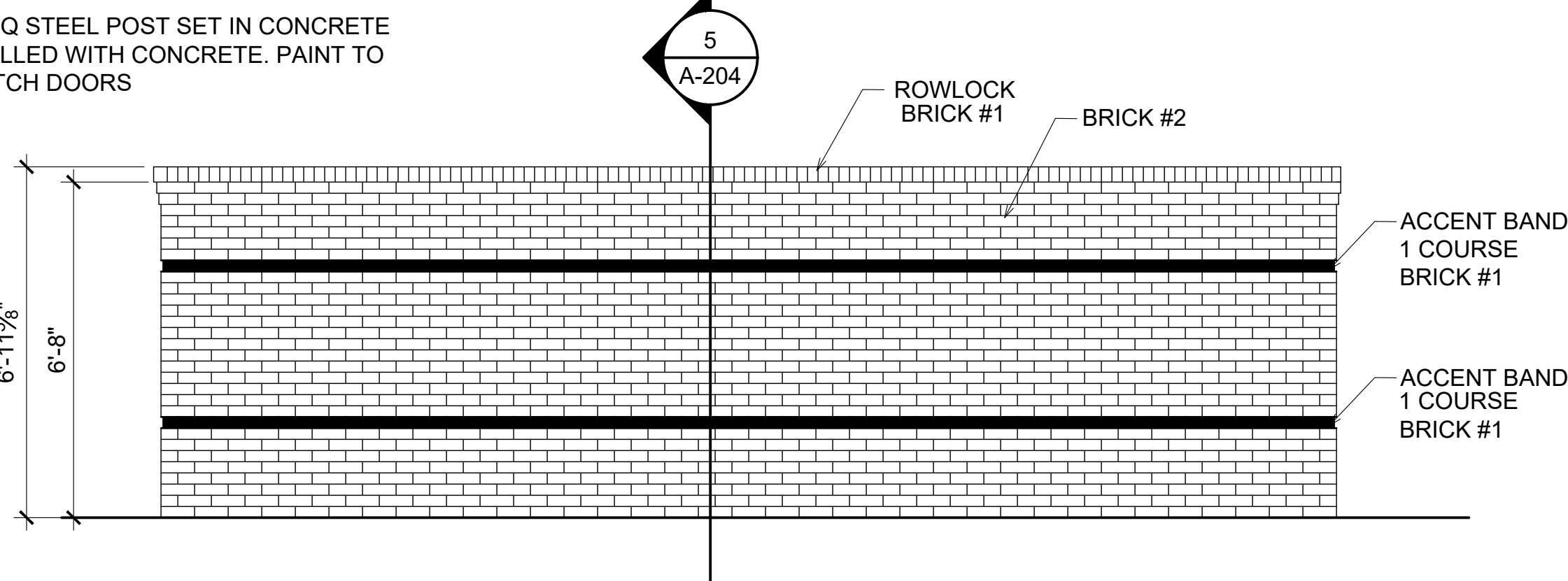
5 SECTION
1/2" = 1'-0"



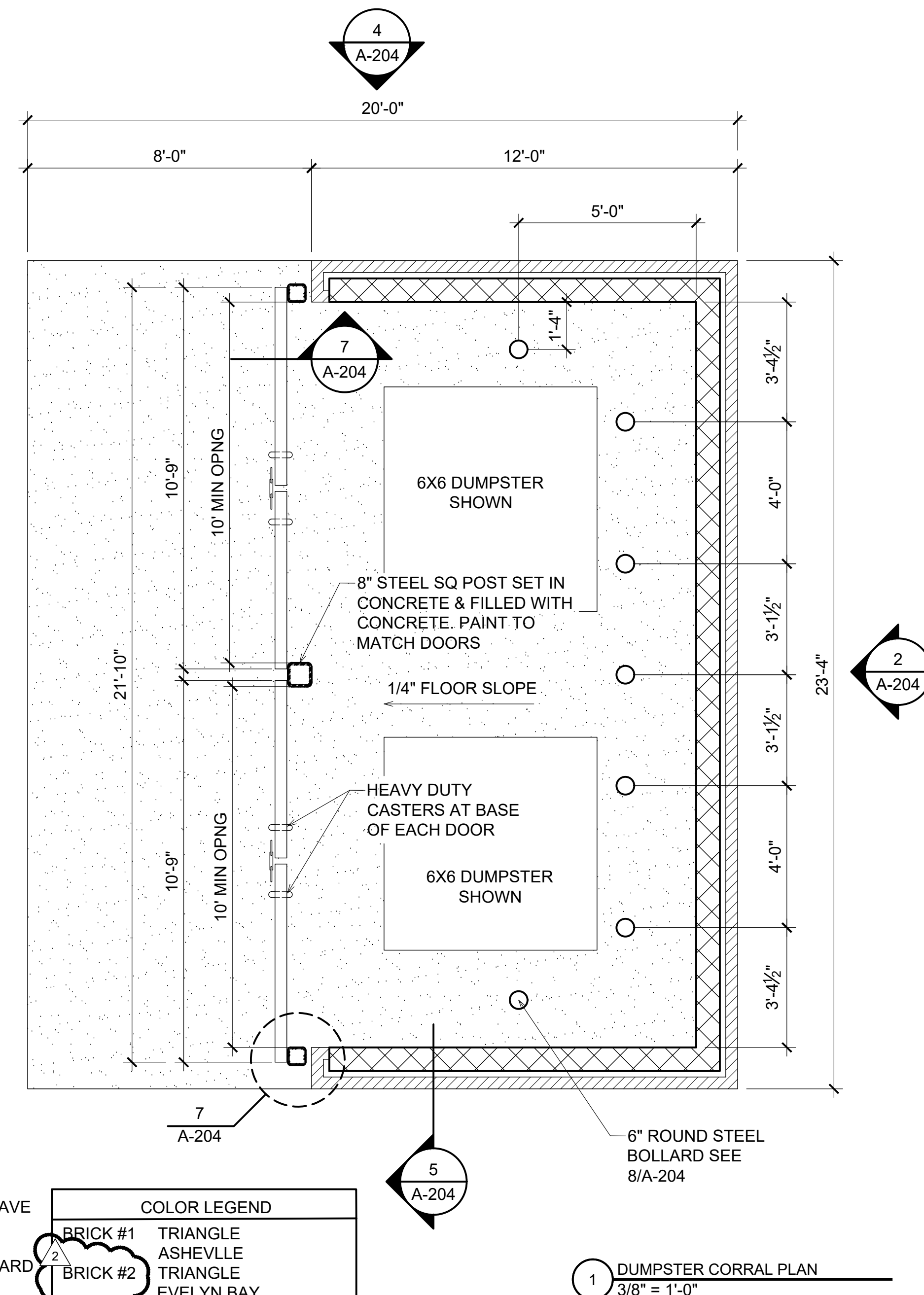
4 SIDE ELEVATION
3/8" = 1'-0"



3 FRONT ELEVATION
3/8" = 1'-0"



2 REAR ELEVATION
3/8" = 1'-0"



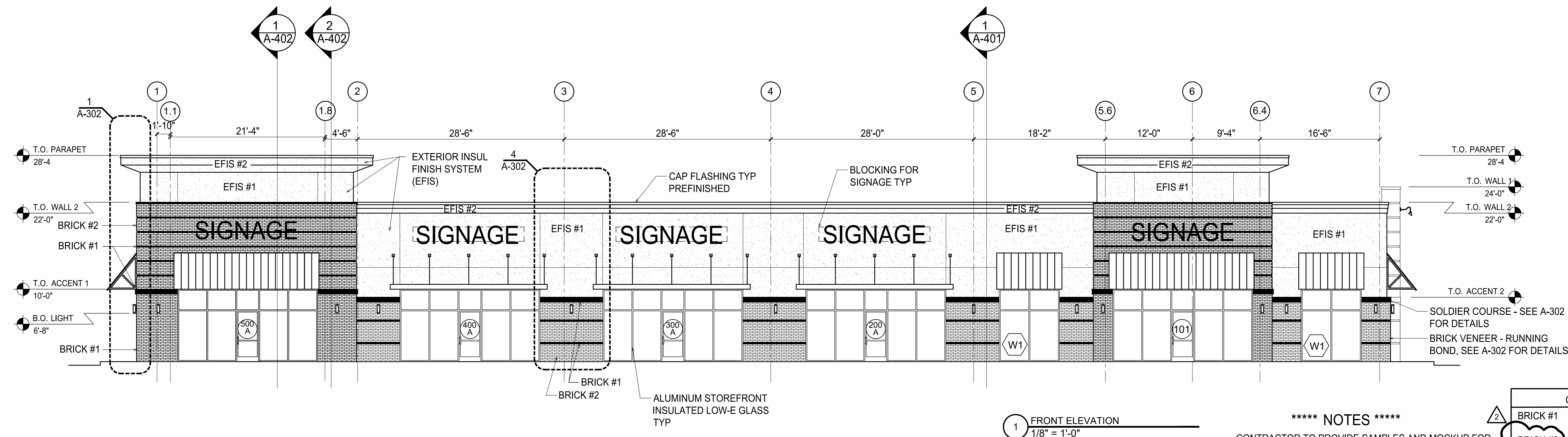
1 DUMPSTER CORRAL PLAN
3/8" = 1'-0"

***** NOTES *****

CONTRACTOR TO PROVIDE SAMPLES AND MOCKUP FOR REVIEW AND APPROVAL BY ARCHITECT AND OWNER. ARCHITECT TO HAVE FIRST APPROVAL.

MORTAR TO BE COLORED AND NOT STANDARD GRAY
COLOR CHART TO BE PROVIDED FOR FINAL SELECTION

COLOR LEGEND	
BRICK #1	TRIANGLE
BRICK #2	ASHEVILLE
	TRIANGLE
	EVELYN BAY



1 FRONT ELEVATION
1/8" = 1'-0"

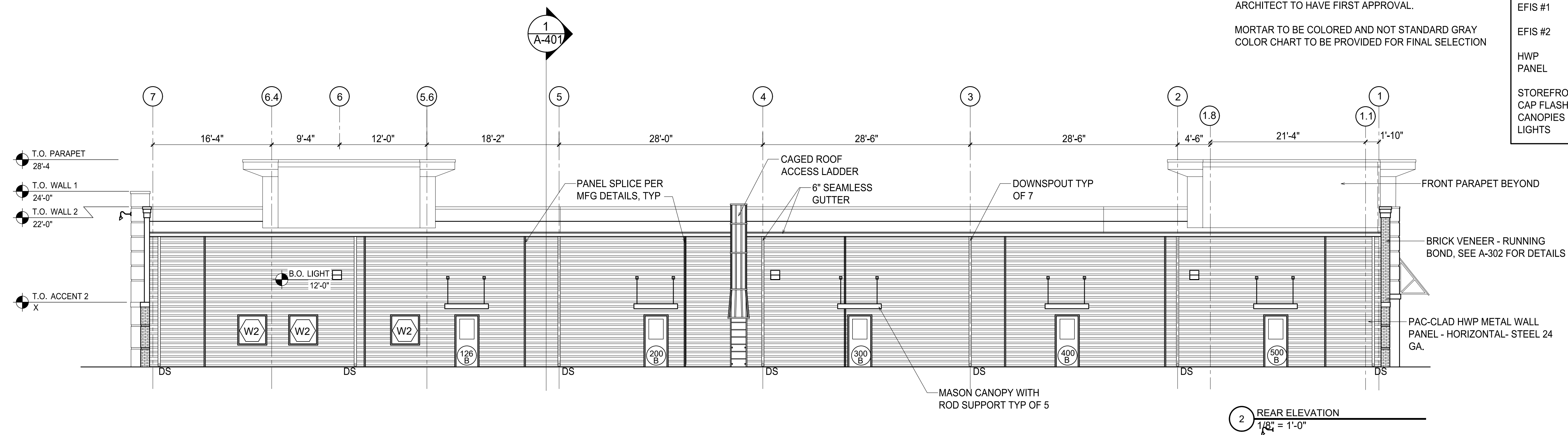
***** NOTES *****

CONTRACTOR TO PROVIDE SAMPLES AND MOCKUP FOR REVIEW AND APPROVAL BY ARCHITECT AND OWNER. ARCHITECT TO HAVE FIRST APPROVAL.

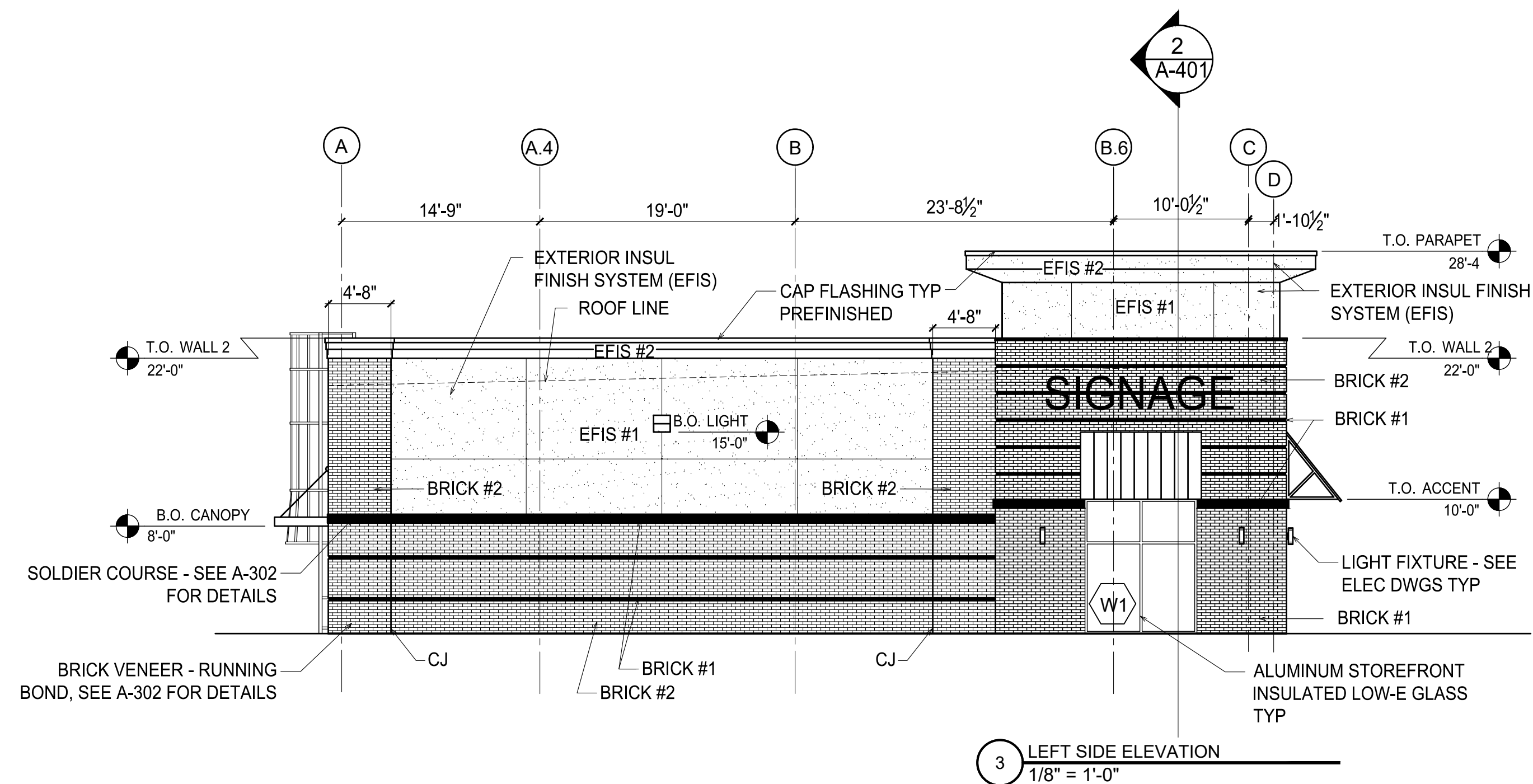
MORTAR TO BE COLORED AND NOT STANDARD GRAY
COLOR CHART TO BE PROVIDED FOR FINAL SELECTION

COLOR LEGEND

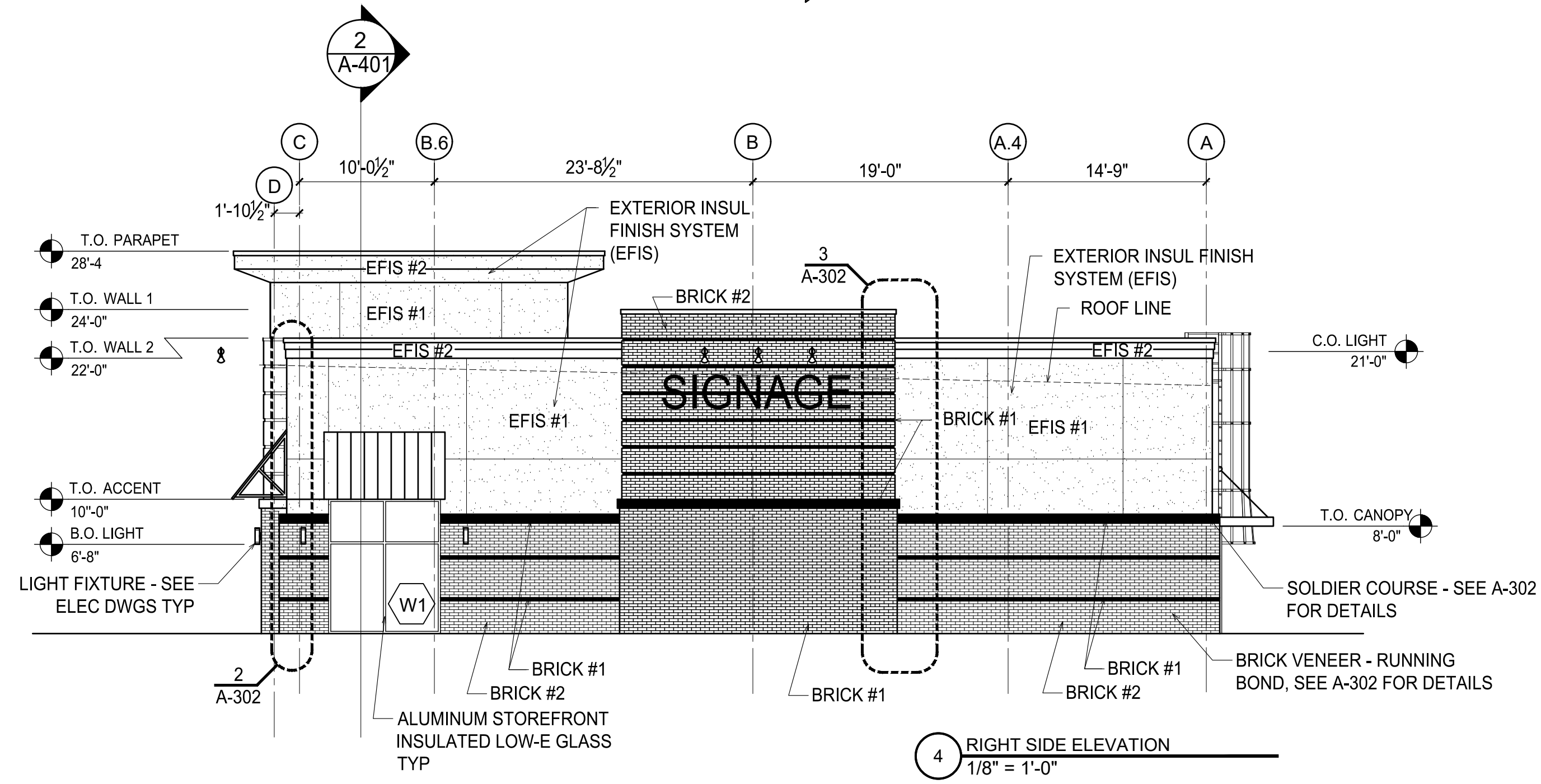
BRICK #1	TRIANGLE
BRICK #2	ASHEVILLE
EFIS #1	TRIANGLE
EFIS #2	EVELYN BAY
HWP	DRYVIT
PANEL	103 NATURAL WHITE
	DRYVIT
	452 STORMY NIGHT
	PAC-CLAD
	DARK BRONZE
STOREFRONT	BRONZE
CAP FLASHING	BRONZE
CANOPIES	BRONZE
LIGHTS	BRONZE



2 REAR ELEVATION
1/8" = 1'-0"



3 LEFT SIDE ELEVATION
1/8" = 1'-0"



4 RIGHT SIDE ELEVATION
1/8" = 1'-0"

ESENSOY MEDICAL CENTER

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS	
7.2.26 correct pricing	
7.9.26 correction brick colors	

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

ELEVATIONS

A-301



7.9.24

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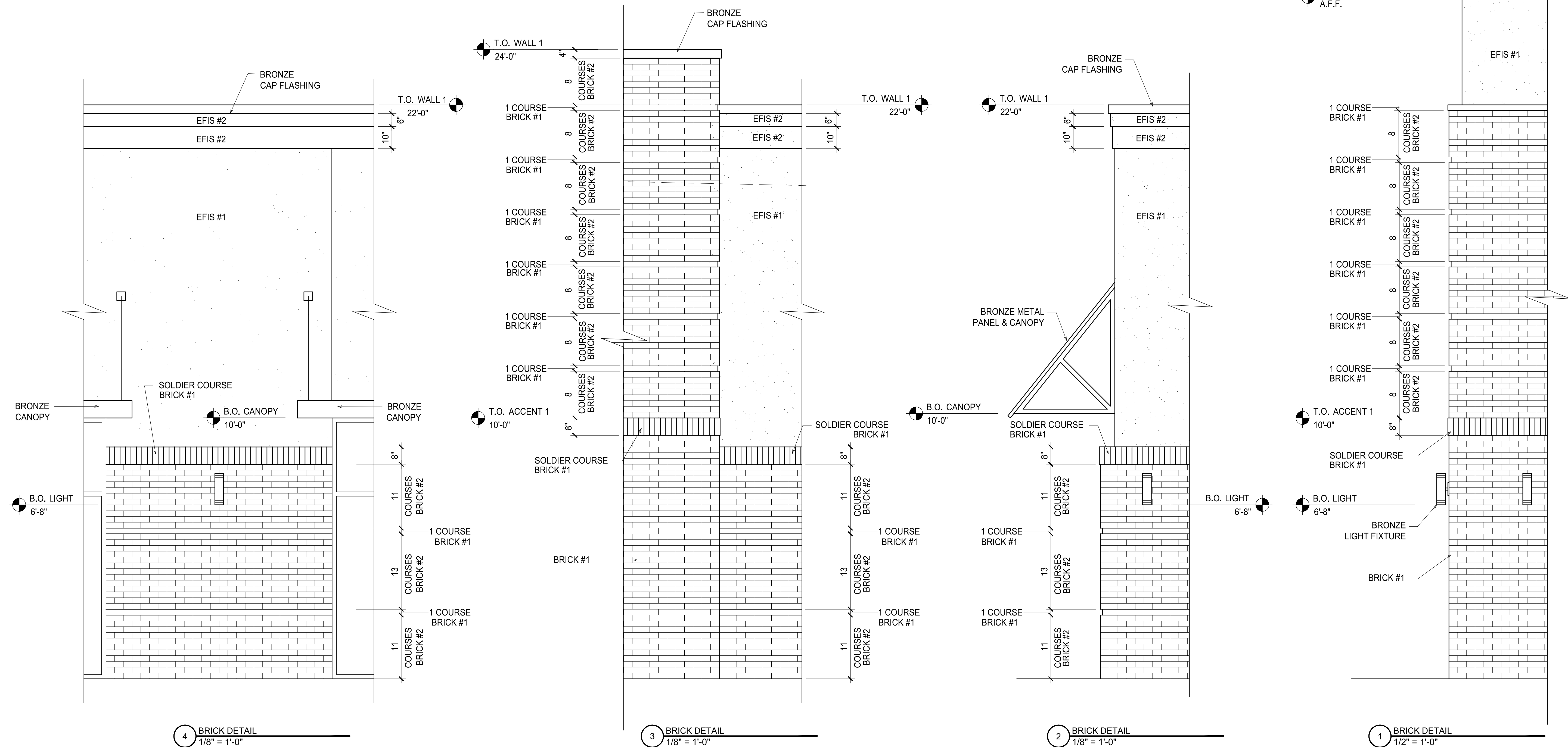
REVISIONS	7.9.26 correction brick colors
1	
2	
3	
4	
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6	

PROJECT #: 26-121
DATE: 5.30.26
DRAWN BY: J.C.H.
CHECKED BY:

A-302

MORTAR TO BE COLORED AND NOT STANDARD GRAY
COLOR CHART TO BE PROVIDED FOR FINAL SELECTION

COLOR LEGEND	
BRICK #1	TRIANGLE ASHEVILLE
BRICK #2	TRIANGLE EVELYN BAY
EFIS #1	DRYVIT 103 NATURAL WHITE
EFIS #2	DRYVIT 452 STORMY NIGHT
HWP	PAC-CLAD
PANEL	DARK BRONZE
STOREFRONT	BRONZE
CAP FLASHING	BRONZE
CANOPIES	BRONZE
LIGHTS	BRONZE



ESENSOY MEDICAL CENTER

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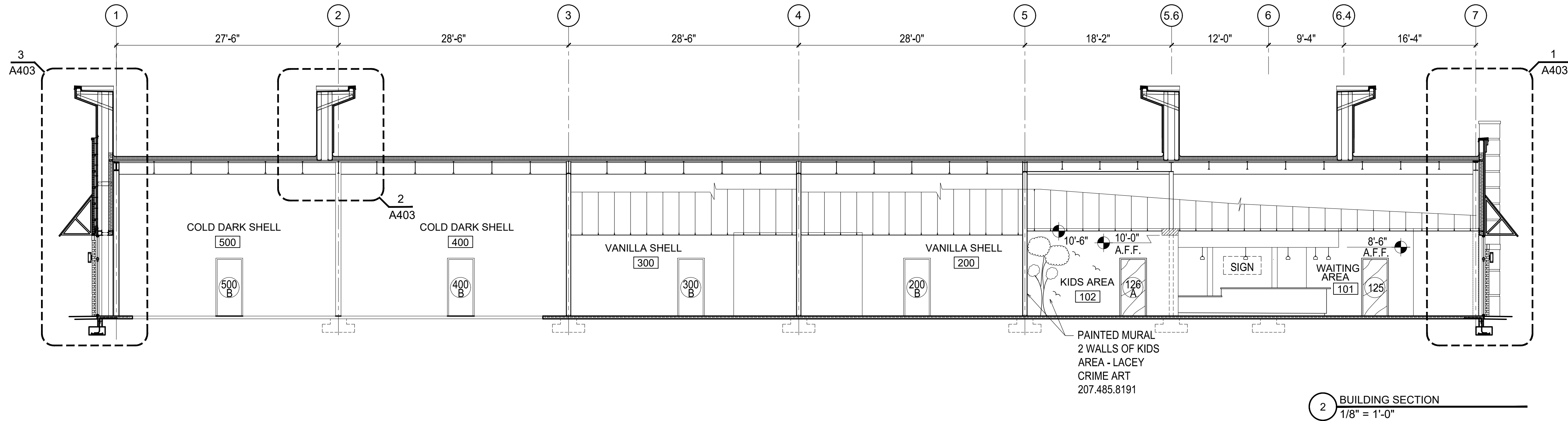
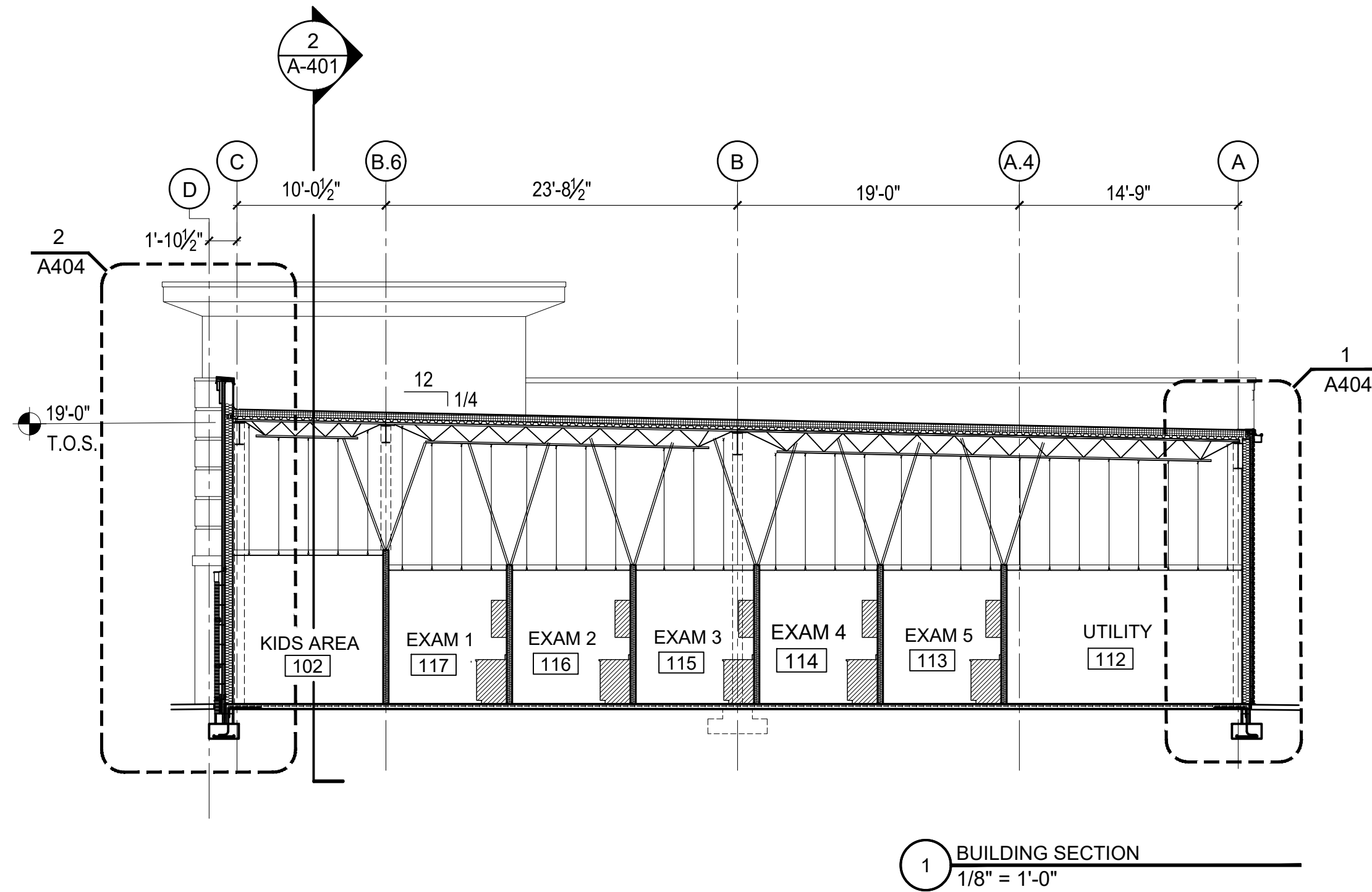
REVISIONS

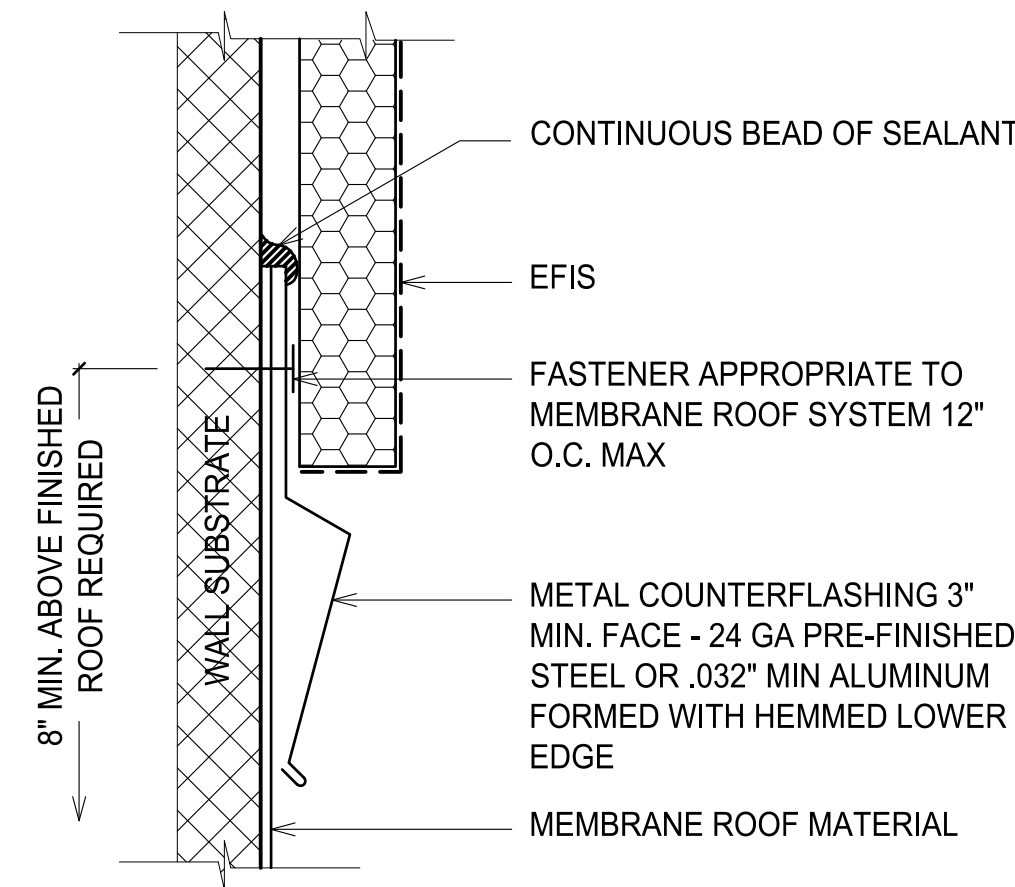
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2	
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PROJECT # : 26-121
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DRAWN BY : J.C.H.
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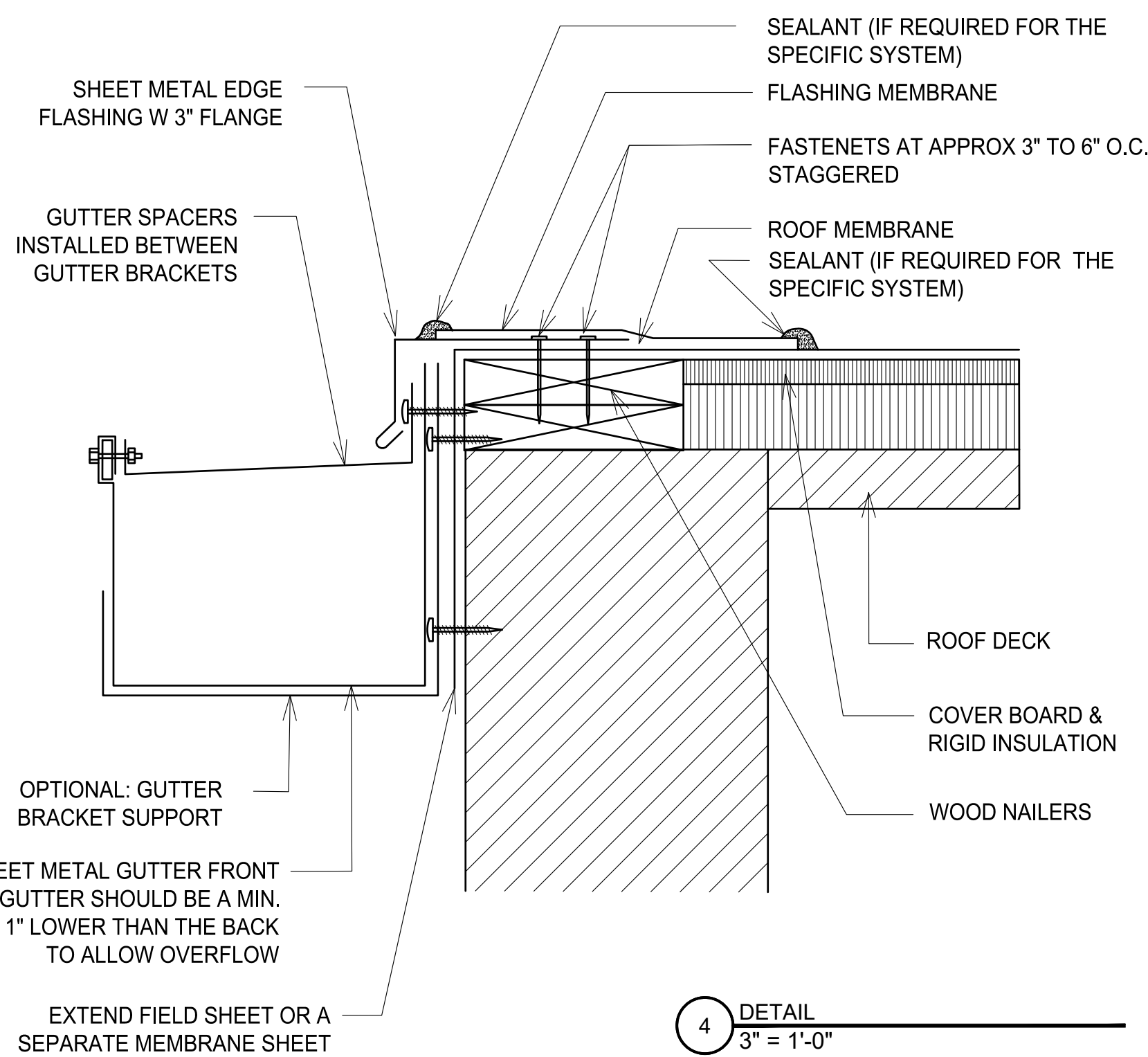
BUILDING SECTIONS

A-401

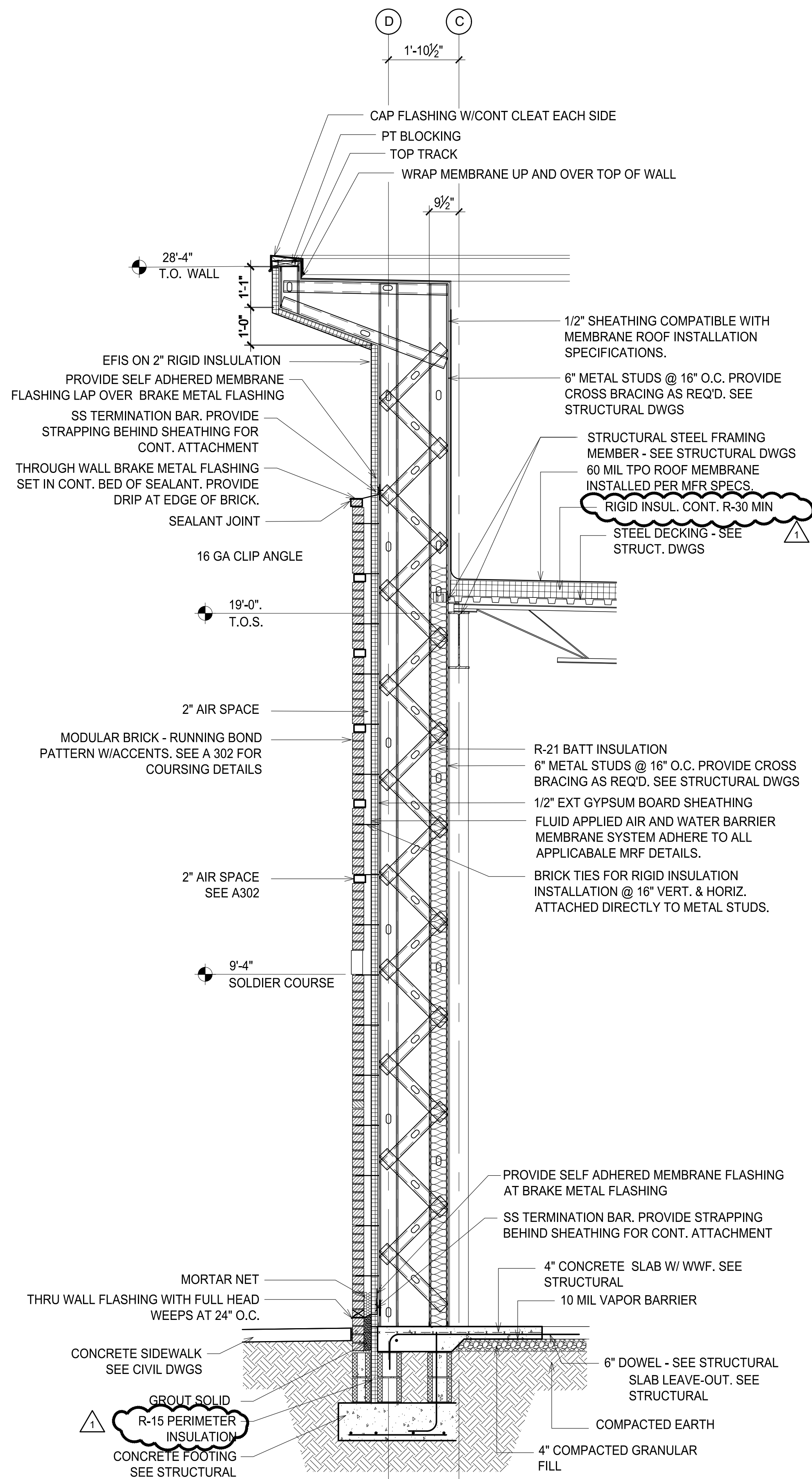




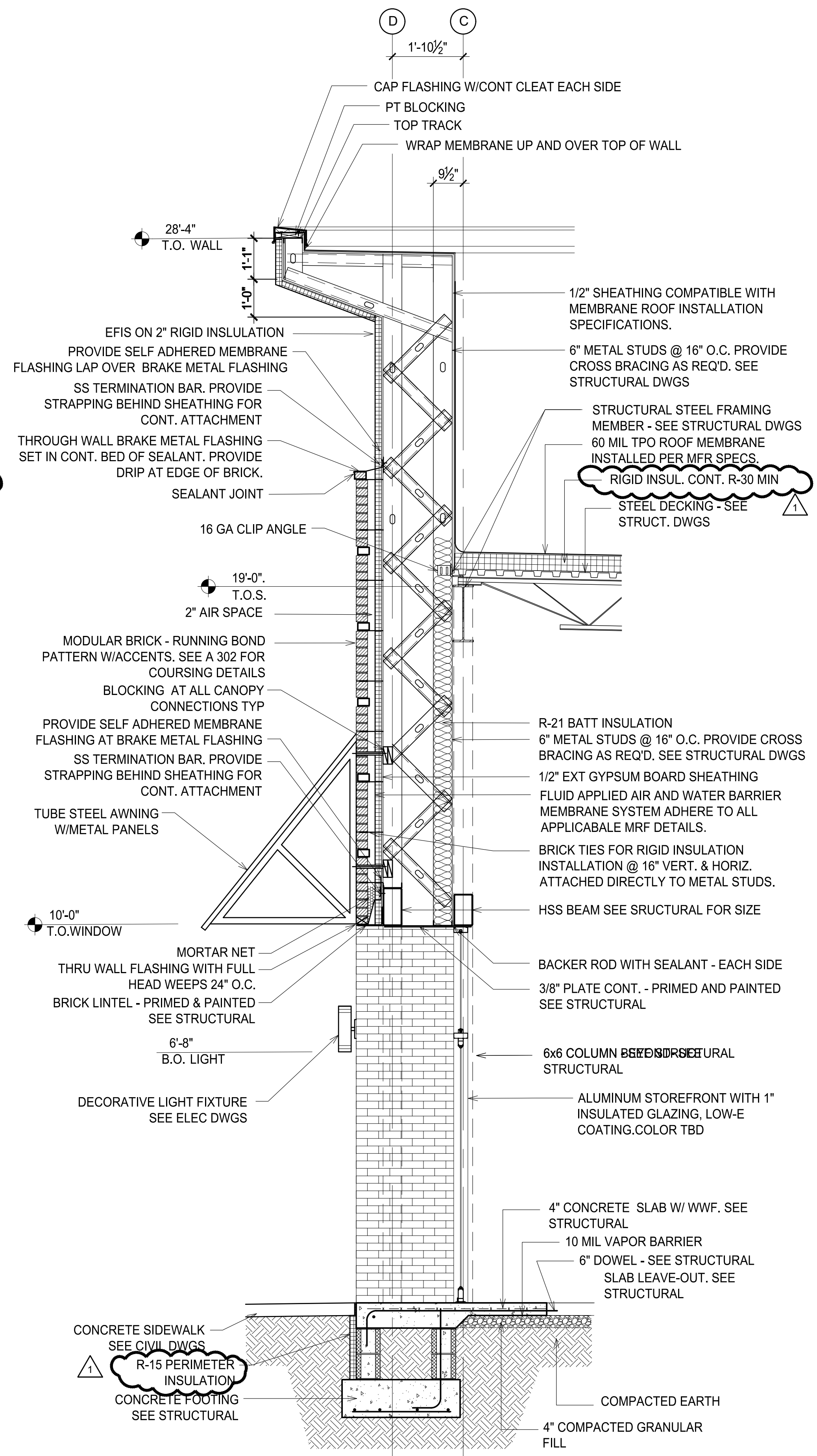
3 DETAIL
3\"/>



4 DETAIL
3\"/>



2 FLOOR PLAN
1/2\"/>



1 FLOOR PLAN
1/2\"/>

ESENSOY MEDICAL CENTER

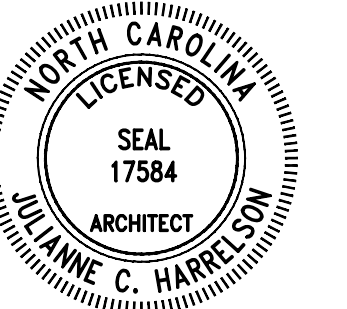
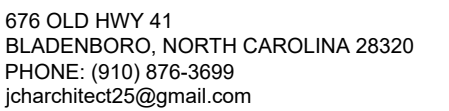
800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS	
1	7.2.26 correct, during pricing
2	
3	
4	
5	

PROJECT # : 26-121
DATE: 5.30.25
DRAWN BY : J.C.H.
CHECKED BY :

WALL SECTIONS

A-402

**ESENSOY MEDICAL CENTER**

800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS	
1	7.2.26 correct, during pricing
2	
3	
4	
5	
6	

WALL SECTIONS

A-403



*** PAC-CLAD MFR. DETAIL

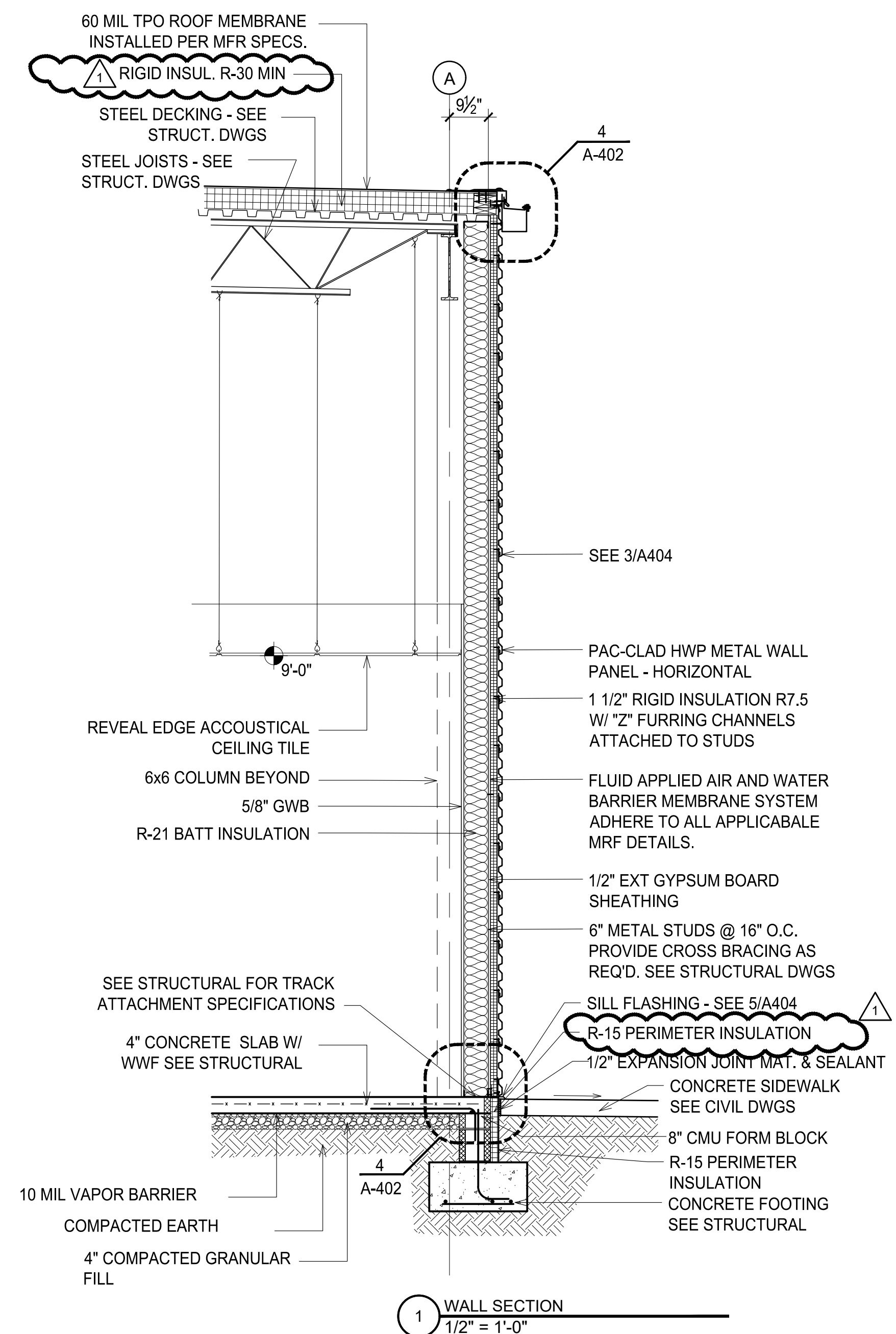
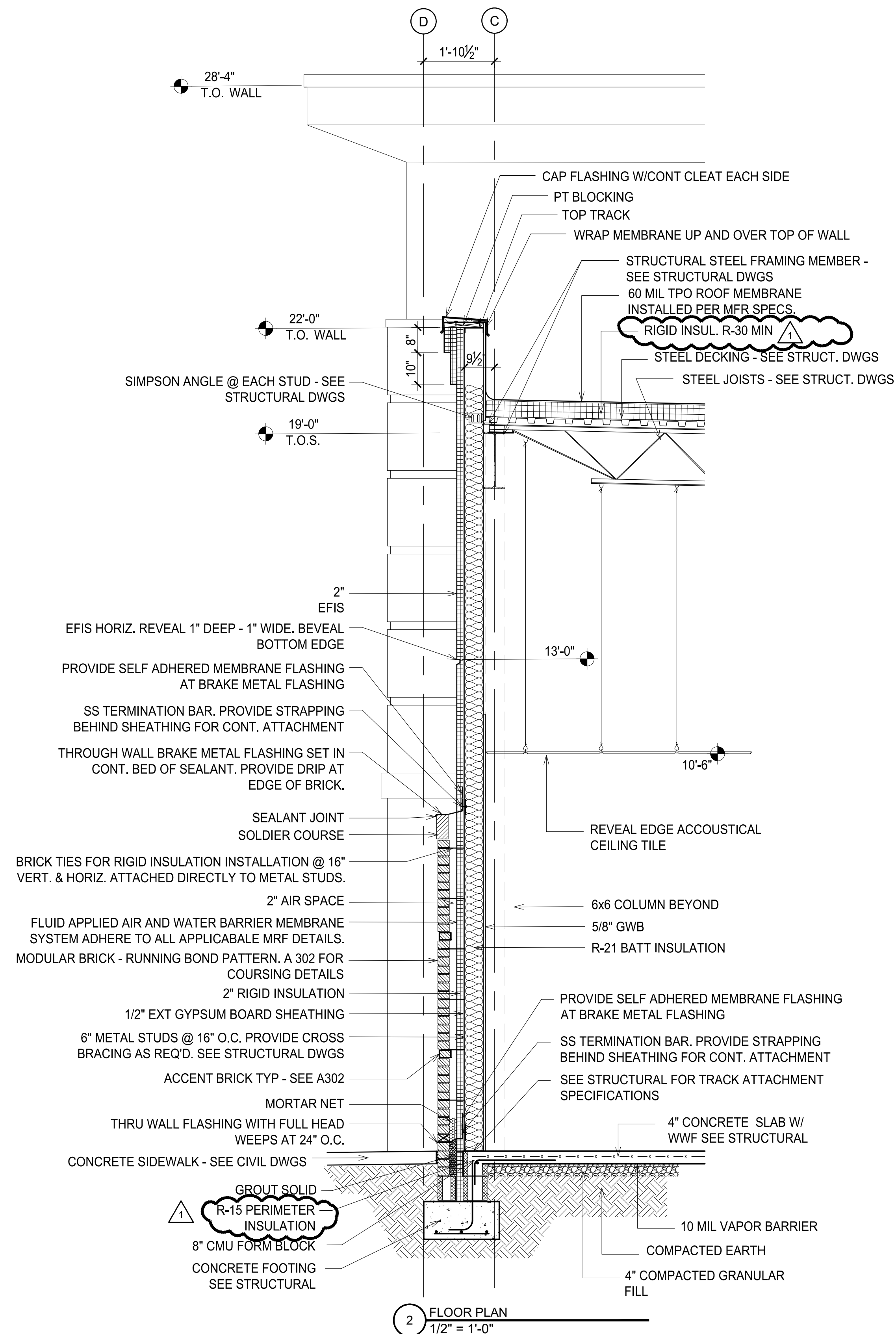
3 HWP PANEL DETAIL
N.T.S.

CONCEALED CLIP OPTION

4 HWP PANEL DETAIL
N.T.S.

*** PAC-CLAD MFR. DETAIL

1 HWP PANEL DETAIL
N.T.S.



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800 HWY NC 24/87
CAMERON, NORTH CAROLINA

REVISIONS	
1	7.2.26 correct, during pricing
2	
3	
4	
5	
6	

PROJECT # : 26-121
DATE: 5.30.26
DRAWN BY : J.C.H.
CHECKED BY :

WALL SECTIONS

A-404

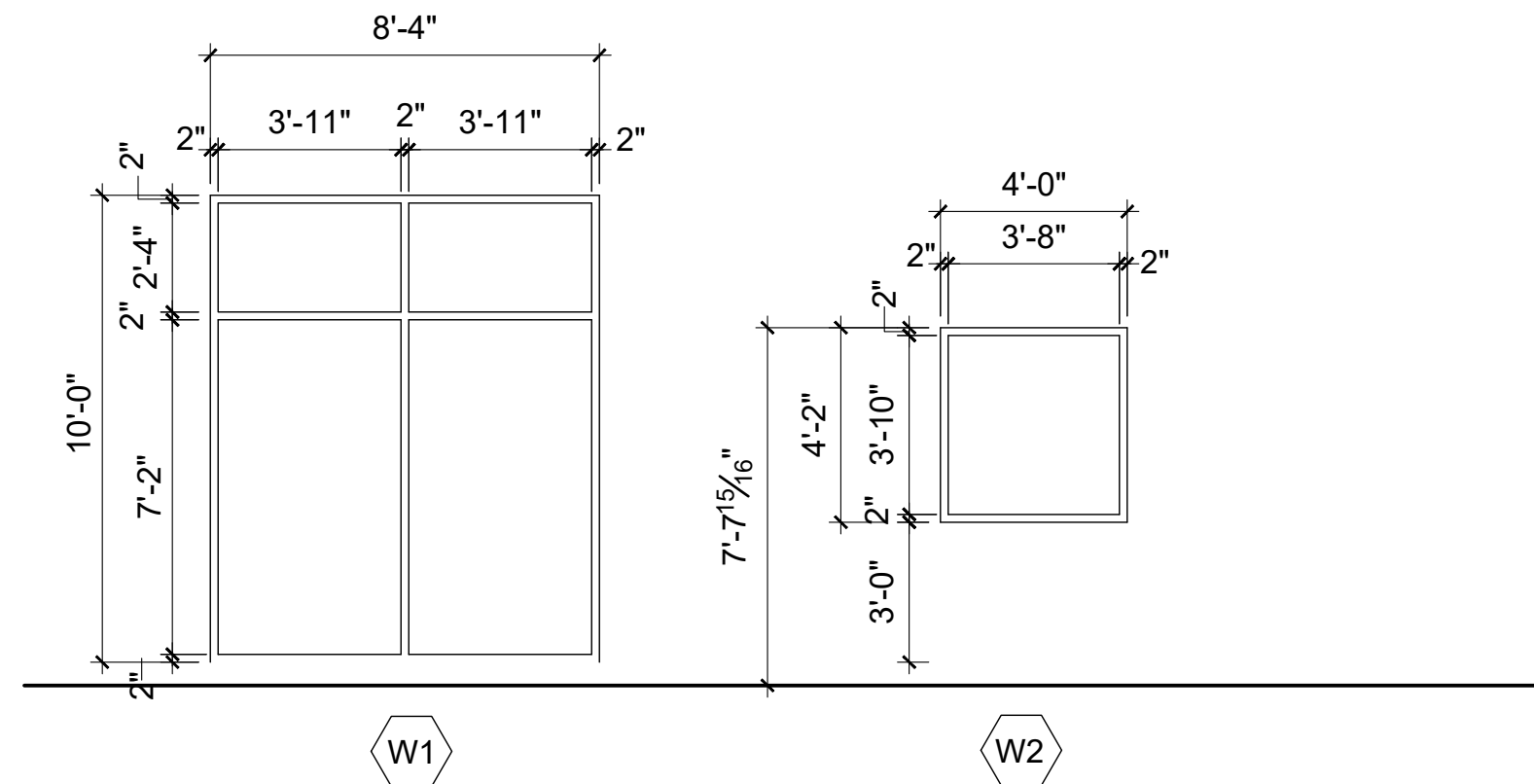
INTERIOR FINISH LEGEND				
MARK	ITEM	PRODUCT/MANUFACTURER	COLOR/FINISH	SIZE
ACT-1	CEILING TILE	ARMSTRONG REVEAL EDGE ACCOUSTICAL CLG TILE	WHITE TILE/WHITE GIRD	24X24
ACT-2	CEILING TILE	ARMSTRONG REVEAL EDGE MOISTURE RESIST ACT	WHITE TILE/WHITE GIRD	24X24
VB-1	VINYL BASE	JOHNSONITE		X
CPT T	CARPET TILE	W/ PATTERN AND 1/4 TURN OPTION	W/ PRIMARY COLOR ACCENTS AVAILABLE	
PT-1	PAINT	SHERWIN WILLIAMS	EGGSHELL	
PT-2	PAINT	SHERWIN WILLIAMS	SEMIGLOSS	
LVP-1	VINYL PLANK			

FINISH SCHEDULE								
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING FINISH	CEILING HEIGHT	FIRE RATING	COMMENTS
101	WAITING	CPT T	VB-1	PT-1	ACT-1	10'-6"	N/A	①
102	KIDS AREA	CPT T	VB-1	PT-1	ACT-1	10'-6"	N/A	①
103	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	①
104	TRIAGE	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	①
105	EXAM 9	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
106	EXAM 8	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
107	EXAM 7	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
108	EXAM 6	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
109	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
110	BREAK RM	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
111	DR. OFFICE	CPT	VB-1	PT-1	ACT-1	9'-0"	N/A	
112	UTILITY	LVP-1	VB-1	PT-2	ACT-2	9'-0"	N/A	
113	EXAM 5	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
114	EXAM 4	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
115	EXAM 3	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
116	EXAM 2	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
117	EXAM 1	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
118	RECEPTION	CPT	VB-1	PT-1	ACT-1	10'-6"	N/A	①
119	OFFICE MGR	CPT	VB-1	PT-1	ACT-1	9'-0"	N/A	
120	BILLING OFFICE	CPT	VB-1	PT-1	ACT-1	9'-0"	N/A	①
121	LAB	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
122	STORAGE	LVP-1	VB-1	PT-1	ACT-1	9'-0"	N/A	
123	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
124	NURSES STATION	CPT T	VB-1	PT-1	ACT-1	9'-0"	N/A	
125	CORRIDOR	CPT T	VB-1	PT-1	ACT-1	9'-0"	N/A	①
126	CORRIDOR	CPT T	-	PT-1	ACT-1	9'-0"	N/A	①
200	VANILLA SHELL 1	CONC	VB1	PT-1	ACT-1	10'-6"	N/A	
201	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
300	VANILLA SHELL 2	CONC	-	PT-1	ACT-1	10'-6"	N/A	
301	RESTROOM	LVP-1	VB-1	PT-2	ACT-2	8'-0"	N/A	
400	COLD DK SHELL 1	-	N/A	N/A	N/A	N/A	N/A	
500	COLD DK SHELL 2	-	N/A	N/A	N/A	N/A	N/A	

FINISH SCHEDULE NOTES:
① PROVIDE ACROVYN SM SERIES CORNER GUARDS OR EQ. 2 PART CORNER GUARDS AT OUTSIDE CORNERS.

WINDOW SCHEDULE								
TYPE	MATERIAL	WIDTH	HEIGHT	② GLASS COLOR	FRAME COLOR	HEAD	SILL	JAMB
W1	ALUMINUM	8'-4"	10'-0"	GRAY	①	—	—	—
W2	ALUMINUM	4'-0"	4'-2"	GRAY	①	—	—	—

NOTES:
① CLEAR ANODIZED ALUMINUM
② 1" INSULATED LOW-E GLASS



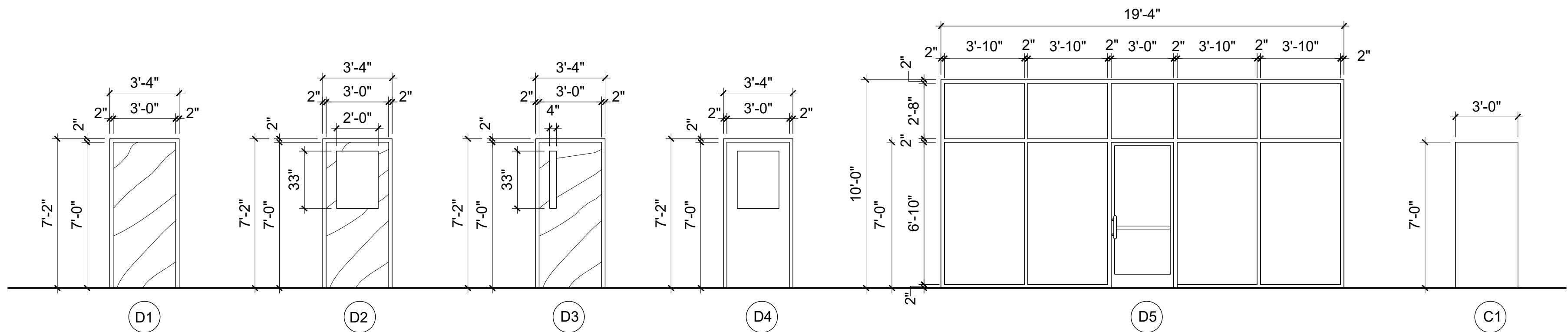
DOOR SCHEDULE										
DOOR NUMBER	LOCATION	DOOR (2)					HDW SET	FRAME		COMMENTS
		TYPE	WIDTH	HEIGHT	MATERIAL	RATING		MATERIAL	FINISH	
101	WAITING	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
102	KIDS AREA									
103	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
104	TRIAGE	C1	3'-0"	7'-0"						CASED OPENING
105	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
106	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
107	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
108	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
109	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
110	BREAK	D2	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
111	OFFICE	D1	3'-0"	7'-0"	WOOD	NA	4	HM	PT-2	
112	UTILITY	D1	3'-0"	7'-0"	WOOD	NA	5	HM	PT-2	
113	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
114	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
115	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
116	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
117	EXAM	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
118	NOT USED									
119	OFFICE	D2	3'-0"	7'-0"	WOOD	NA	4	HM	PT-2	
120	OFFICE	D2	3'-0"	7'-0"	WOOD	NA	4	HM	PT-2	
121	LAB	C1	3'-0"	7'-0"						CASED OPENING
122	STORAGE	D1	3'-0"	7'-0"	WOOD	NA	3	HM	PT-2	
123	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
124	NOT USED									
125	CORRIDOR	D3	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
126A	CORRIDOR	D3	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
126B	CORRIDOR	D4	3'-0"	7'-0"	HM	NA	1	HM	PT-2	
200A	VANILLA SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
200B	VANILLA SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	
201	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
300A	VANILLA SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
300B	VANILLA SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	
301	RESTROOM	D1	3'-0"	7'-0"	WOOD	NA	2	HM	PT-2	
400A	COLD SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
400B	COLD SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	
500A	COLD SHELL	D5	19'-4"	10'-0"	ALUM	NA	1	ALUM	①	STOREFRONT
500B	COLD SHELL	D4	3'-0"	7'-0"	HM	NA	6	HM	PT-2	

DOOR NOTES:
① STOREFRONT TO BE CLEAR ANODIZED ALUMINUM IN COLOR
② ALL WOOD DOORS TO BE PRE-FINISHED SOLID CORE WOOD DOORS

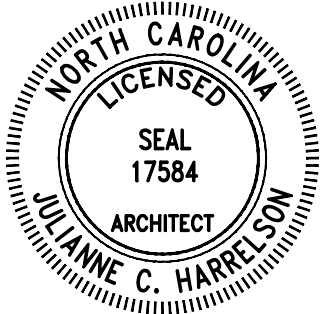
HARDWARE SETS						
SET 1 (1)	SET 2	SET 3	SET 4	SET 5	SET 6	SET 7
THUMB LATCH	1 1/2 PR BUTTS	1 1/2 PR BUTTS	1 1/2 PR BUTTS	1 1/2 PR BUTTS	1 1/2 PR BUTTS	
CYLINDER	PRIVACY SET	PASSAGE SET	LOCKSET	STORE RM SET	LOCKSET	
PANIC BAR	WALL STOP	WALL STOP	WALL STOP	WALL STOP	THRESHOLD	
FLUSHBOLT (2)	CLOSER	SILENCERS	SILENCERS	SILENCERS	WEATHERSTRIP	
	CLOSER				CLOSER	
THRESHOLD						
SWEEP						
WEATHERSTRIP						

GENERAL NOTES:
1. ALL CLOSER AND LOCK SETS TO MEET ACCESSIBILITY REQUIREMENTS.
2. OPERABLE PARTS OF HARDWARE SHALL BE 34" MIN TO 48" MAX ABOVE THE FLOOR.

HARDWARE NOTES:
① BY STOREFRONT MFR
② WITH CONCEALED VERTICAL RODS AND DOGGING DEVICE



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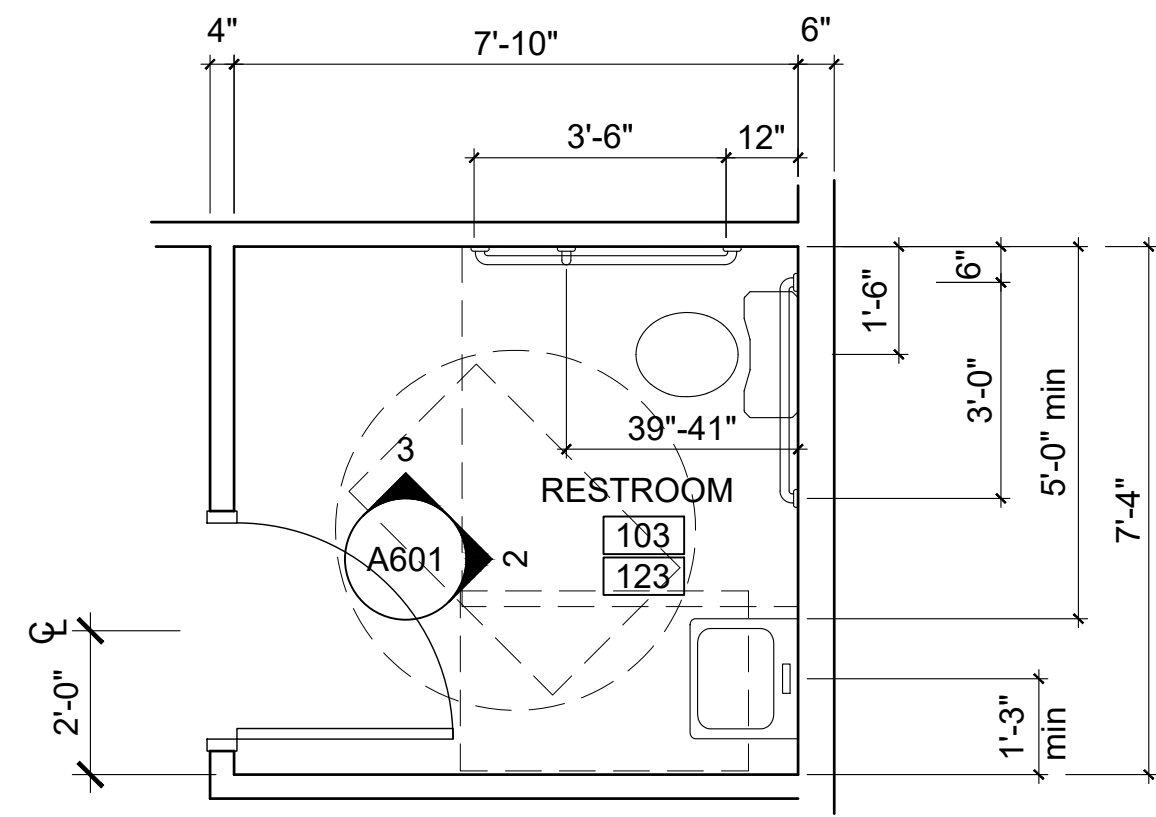
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1 7.2.26 correct during pricing

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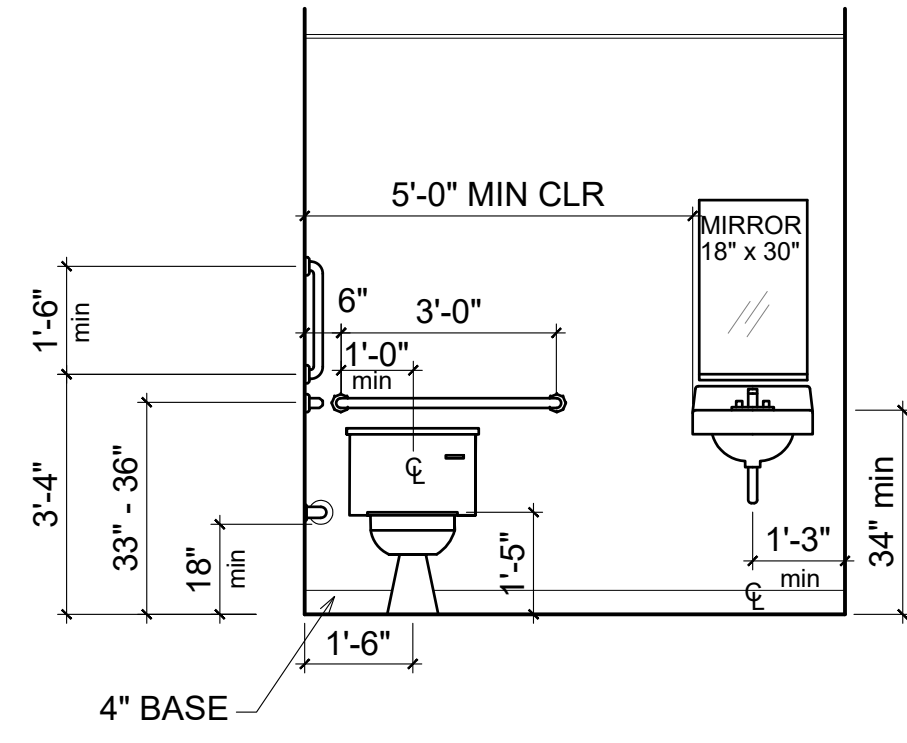
SCHEDULES

A-501



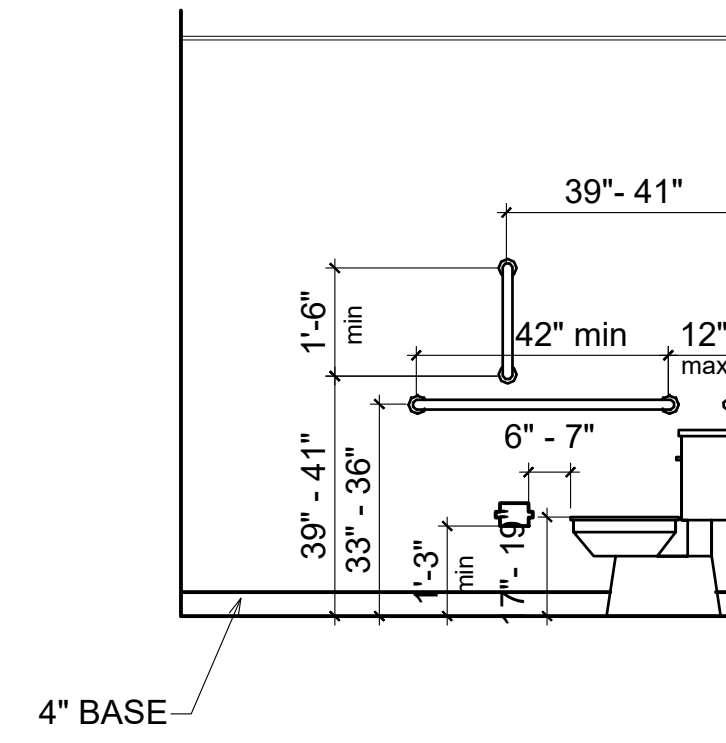
NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

1 ENLARGED PLAN
3/8" = 1'-0"



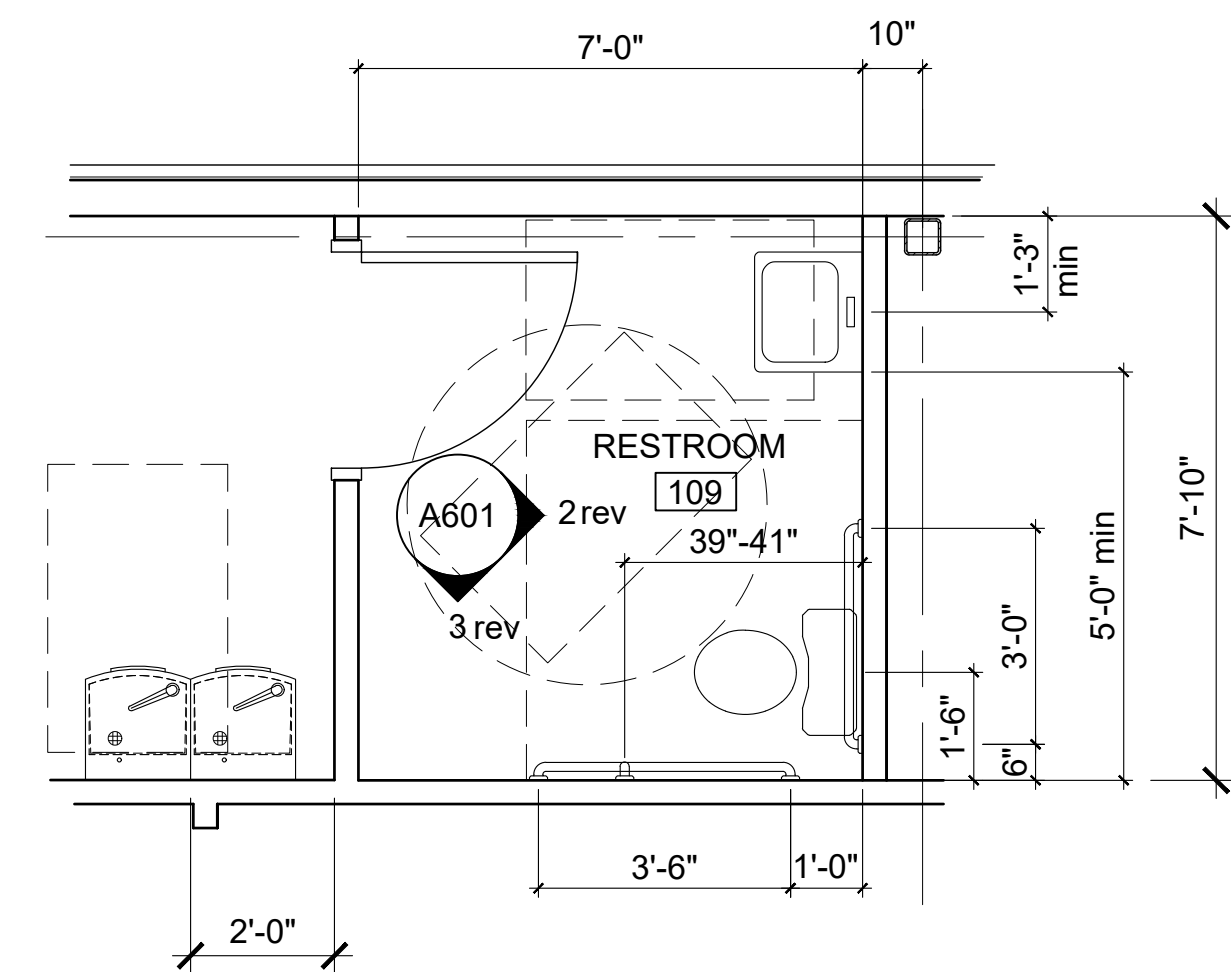
NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

2 ELEVATION
3/8" = 1'-0"



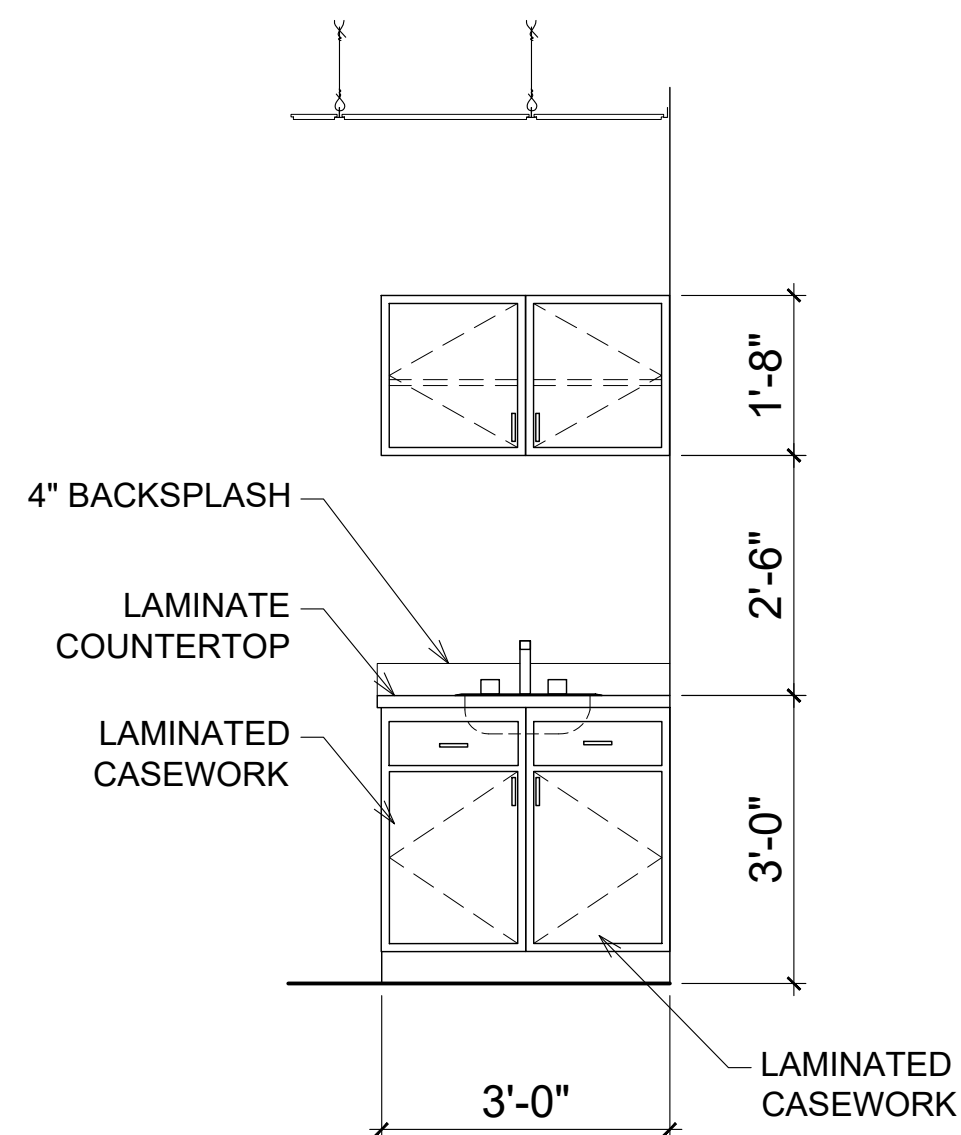
NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

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

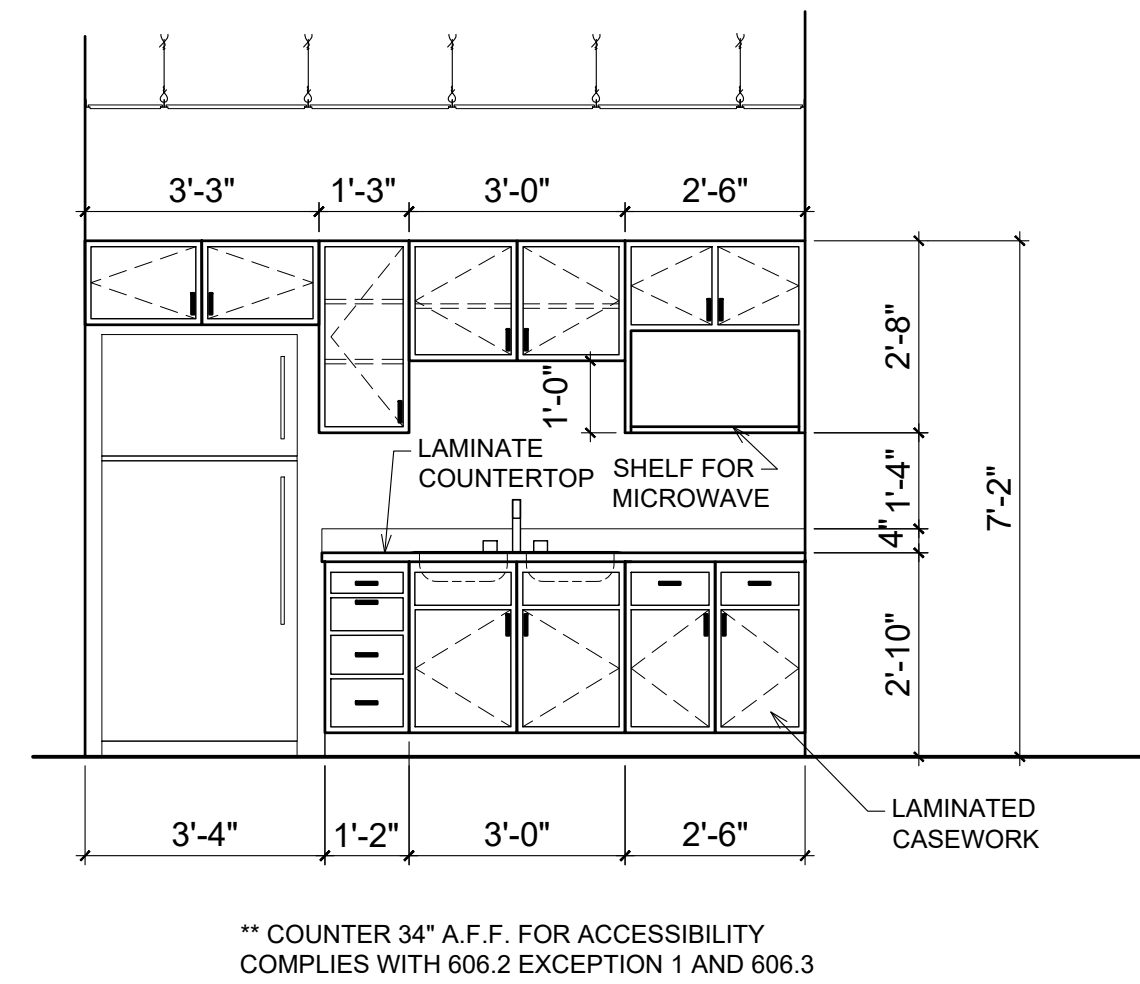


NOTE:
DIMENSIONS TO FACE OF FINISHED WALL.

4 ENLARGED PLAN
3/8" = 1'-0"

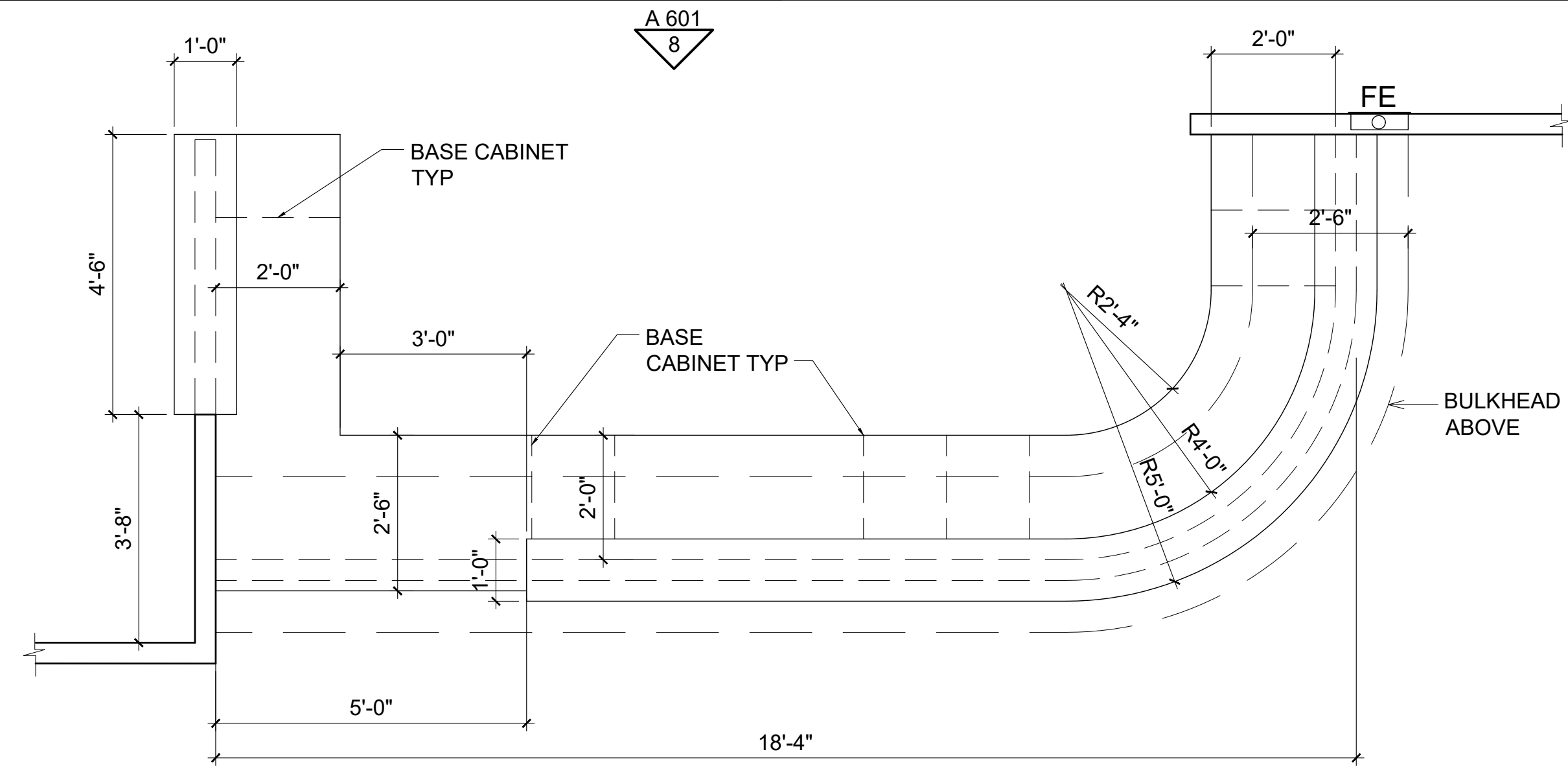


5 ELEVATION
1/2" = 1'-0"

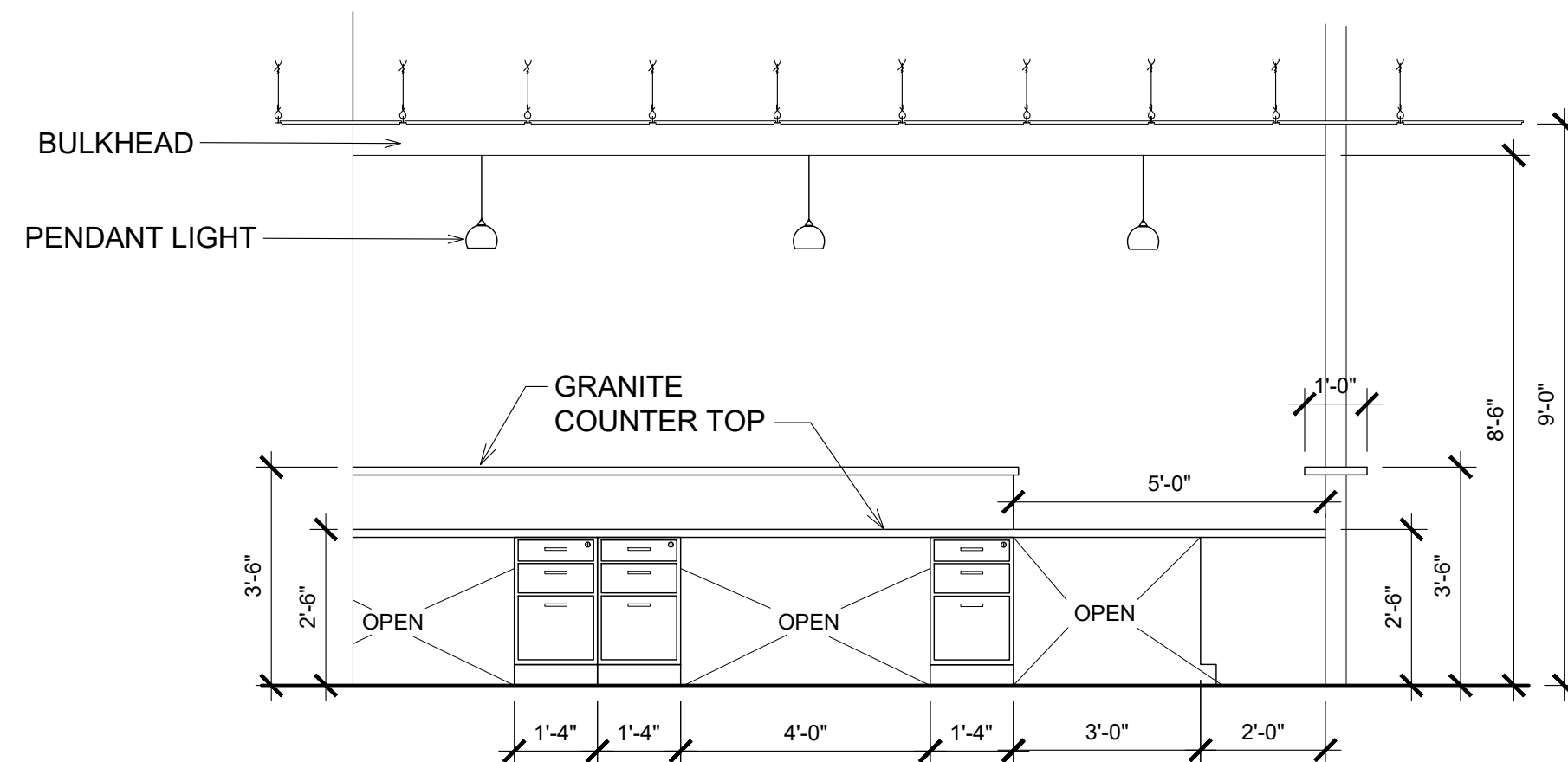


** COUNTER 34" A.F.F. FOR ACCESSIBILITY
COMPLIES WITH 606.2 EXCEPTION 1 AND 606.3

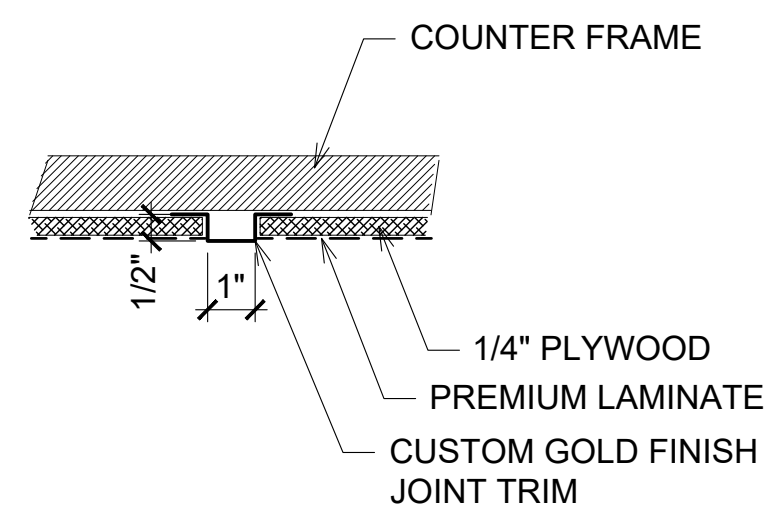
6 ENLARGED PLAN
1/2" = 1'-0"



7 ENLARGED PLAN
1/2" = 1'-0"

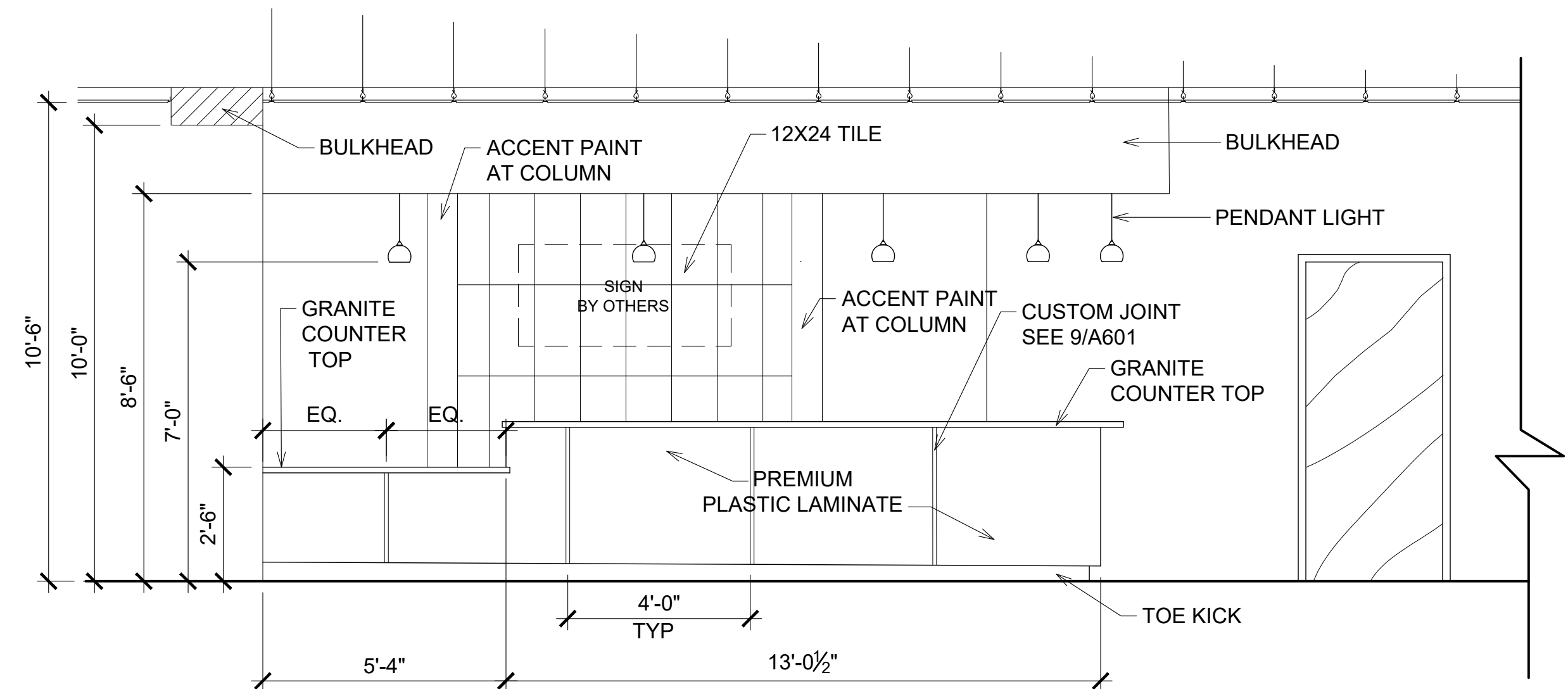


8 ELEVATION
1/2" = 1'-0"

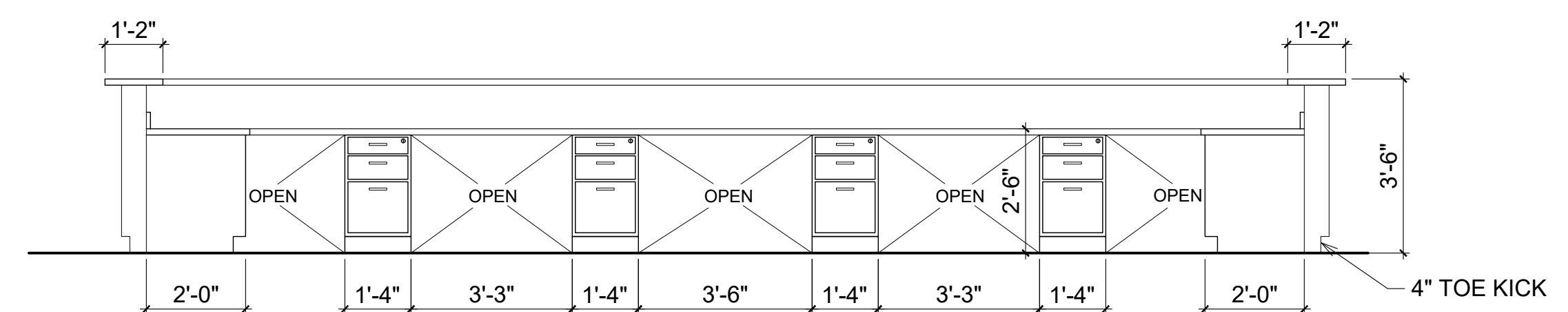
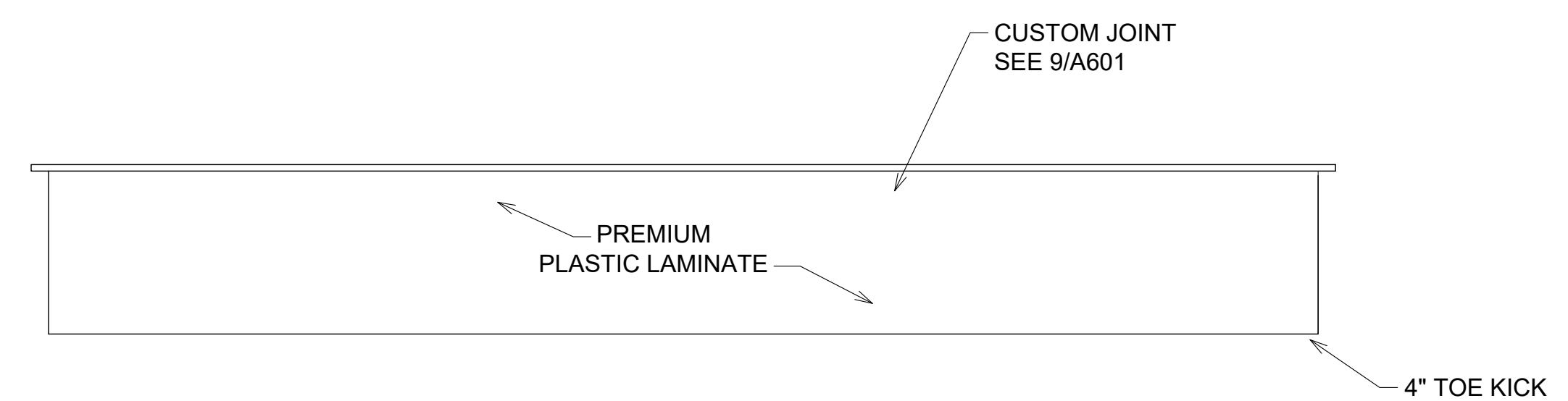
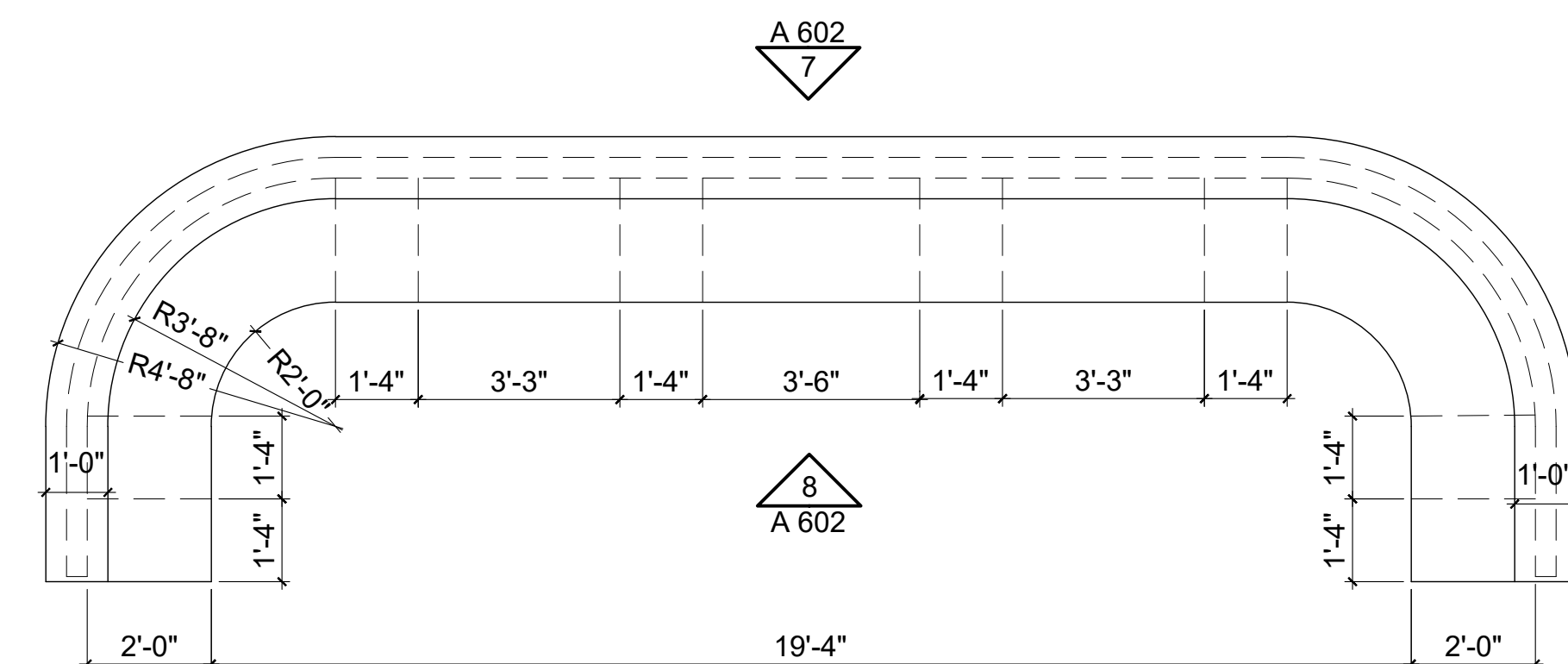
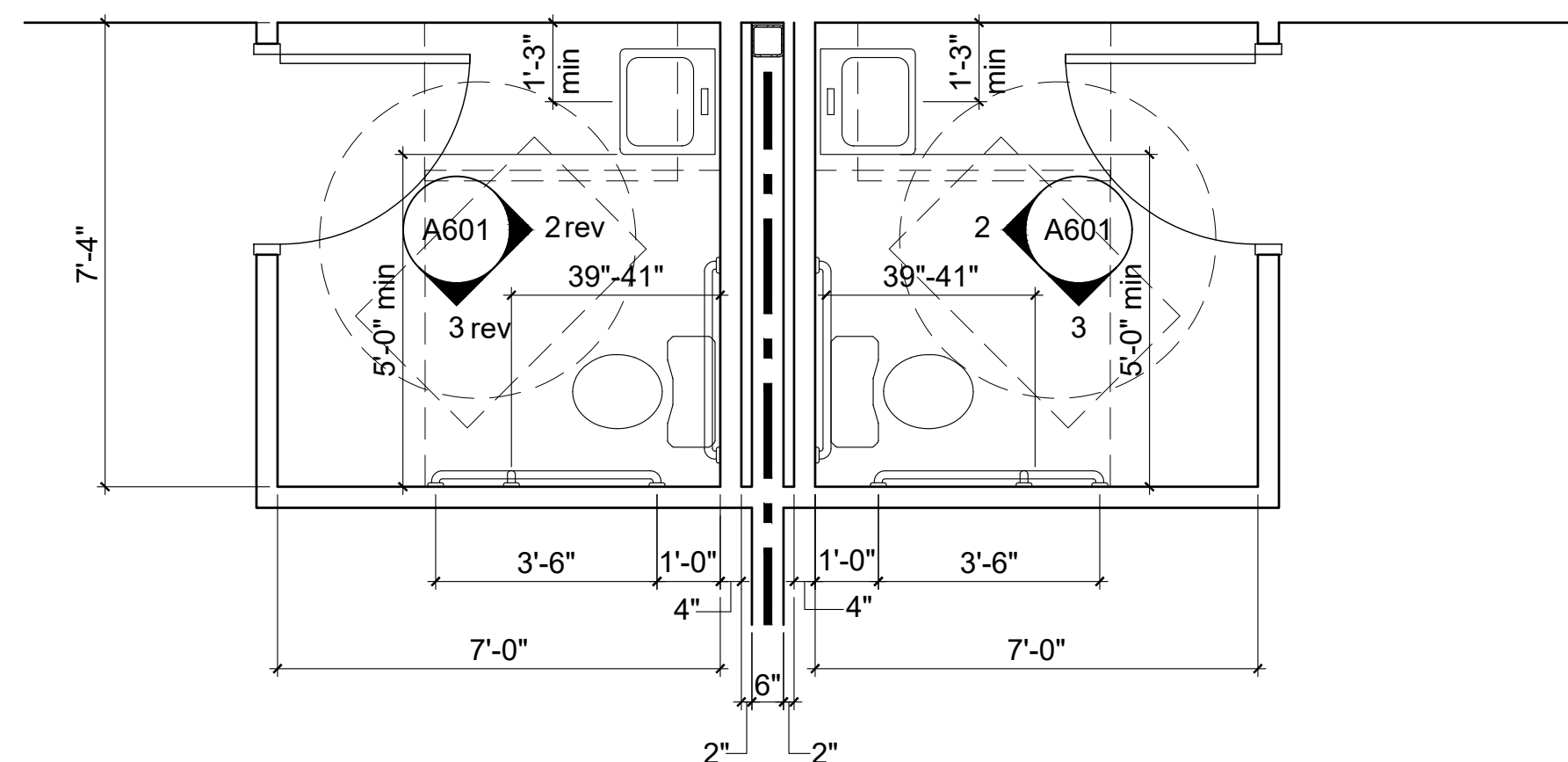
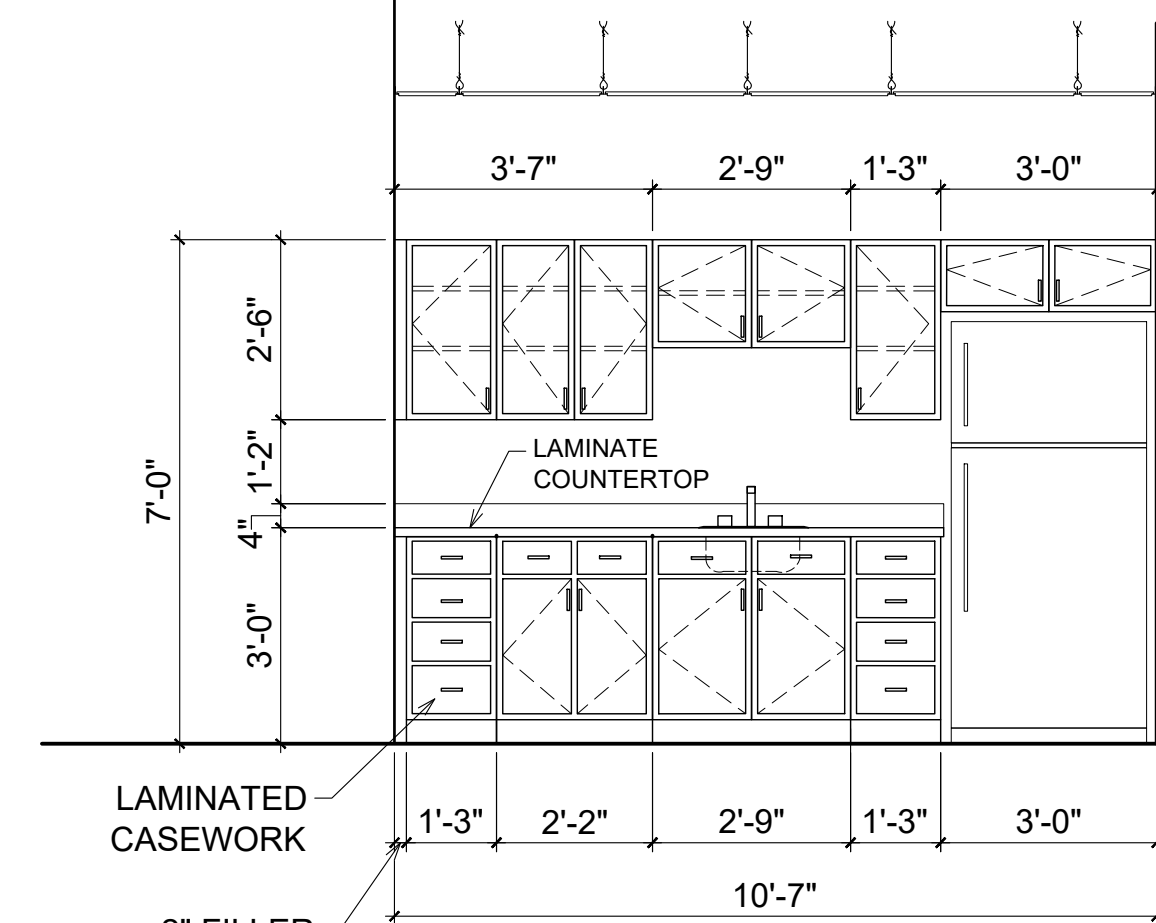
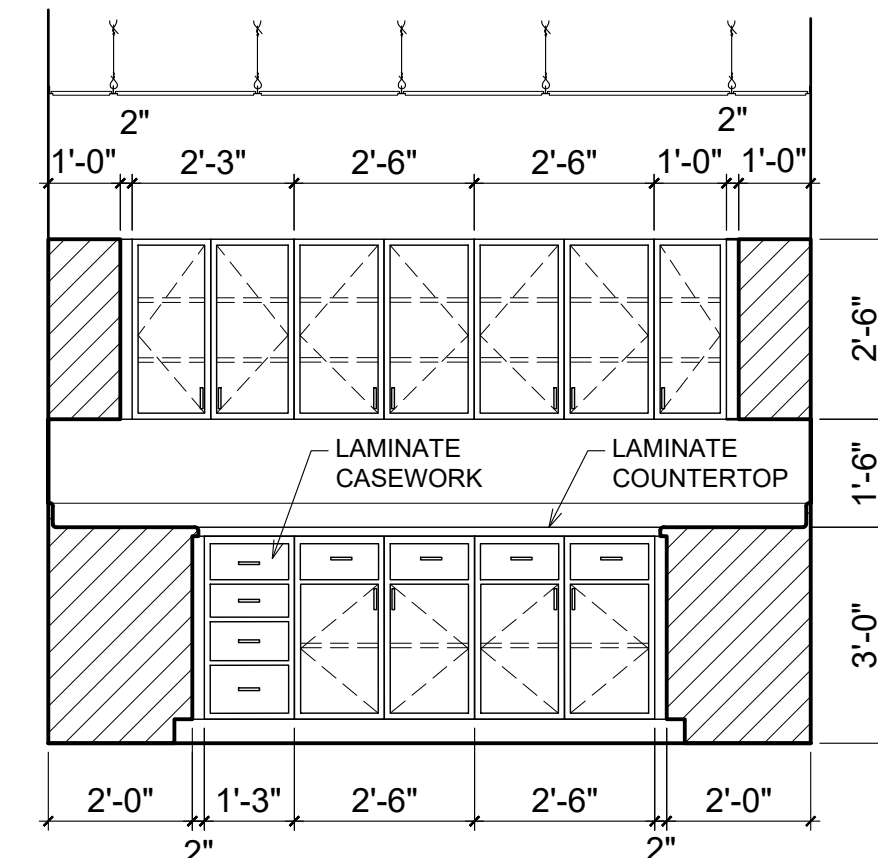
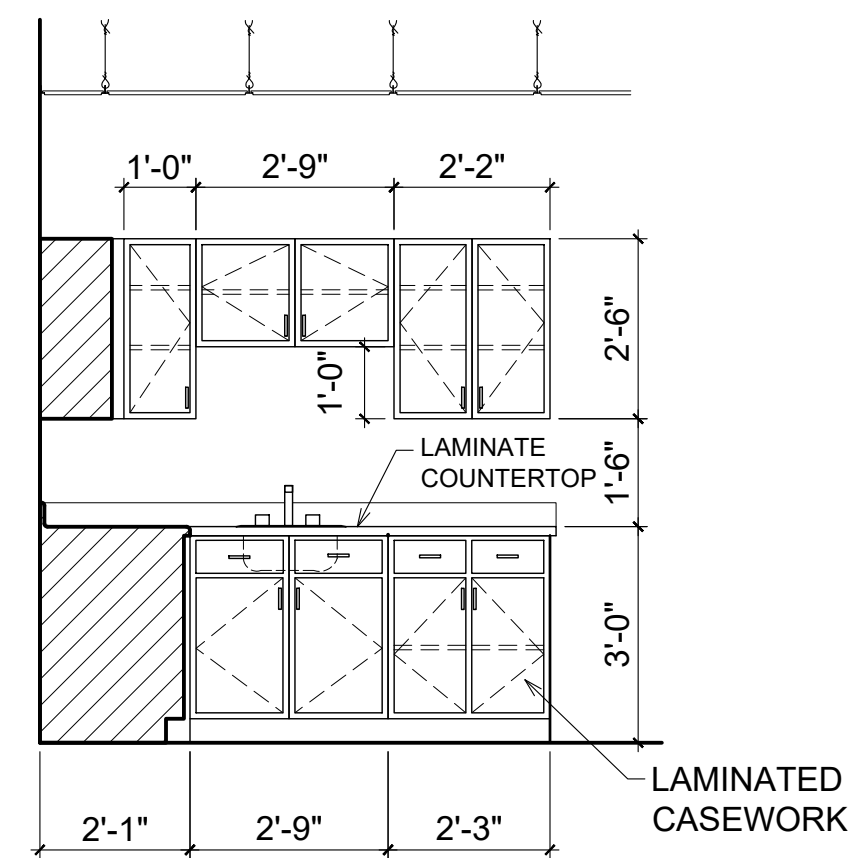
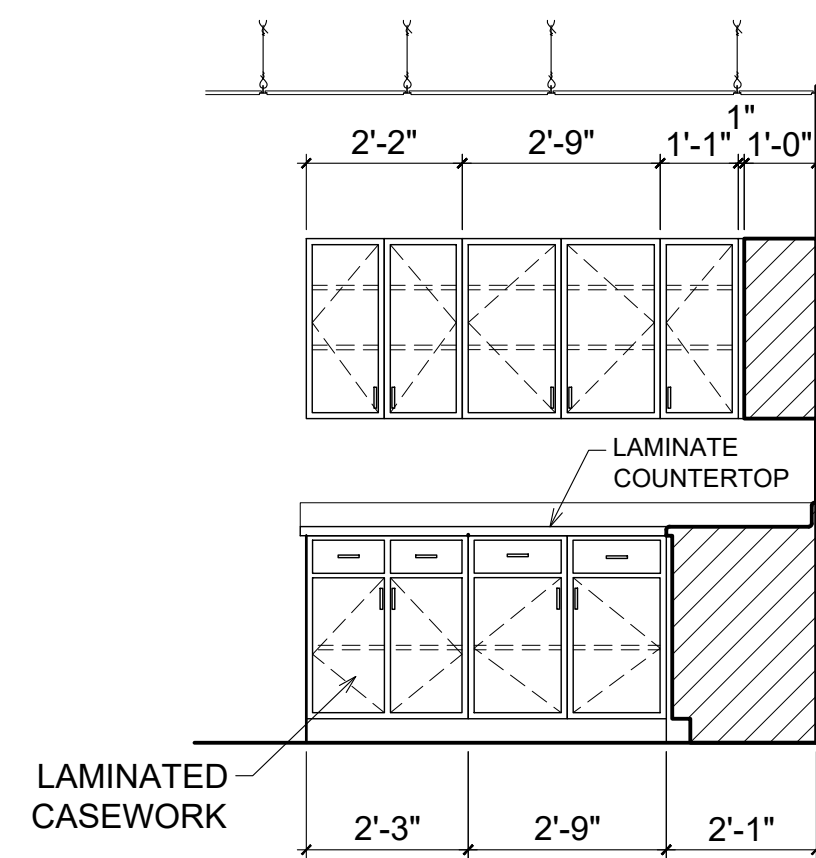


ALTERNATE:
PREFABRICATED SUBSTITUTIONS CAN BE
SUBMITTED FOR REVIEW

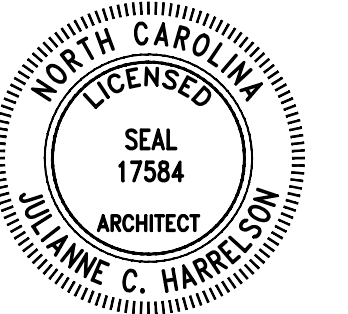
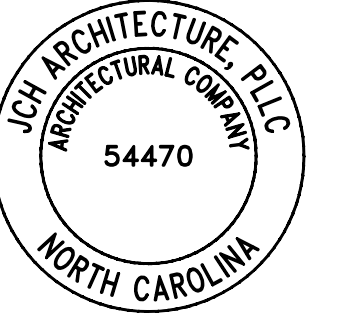
9 DETAIL
3\"/>



10 ELEVATION
3/8\"/>



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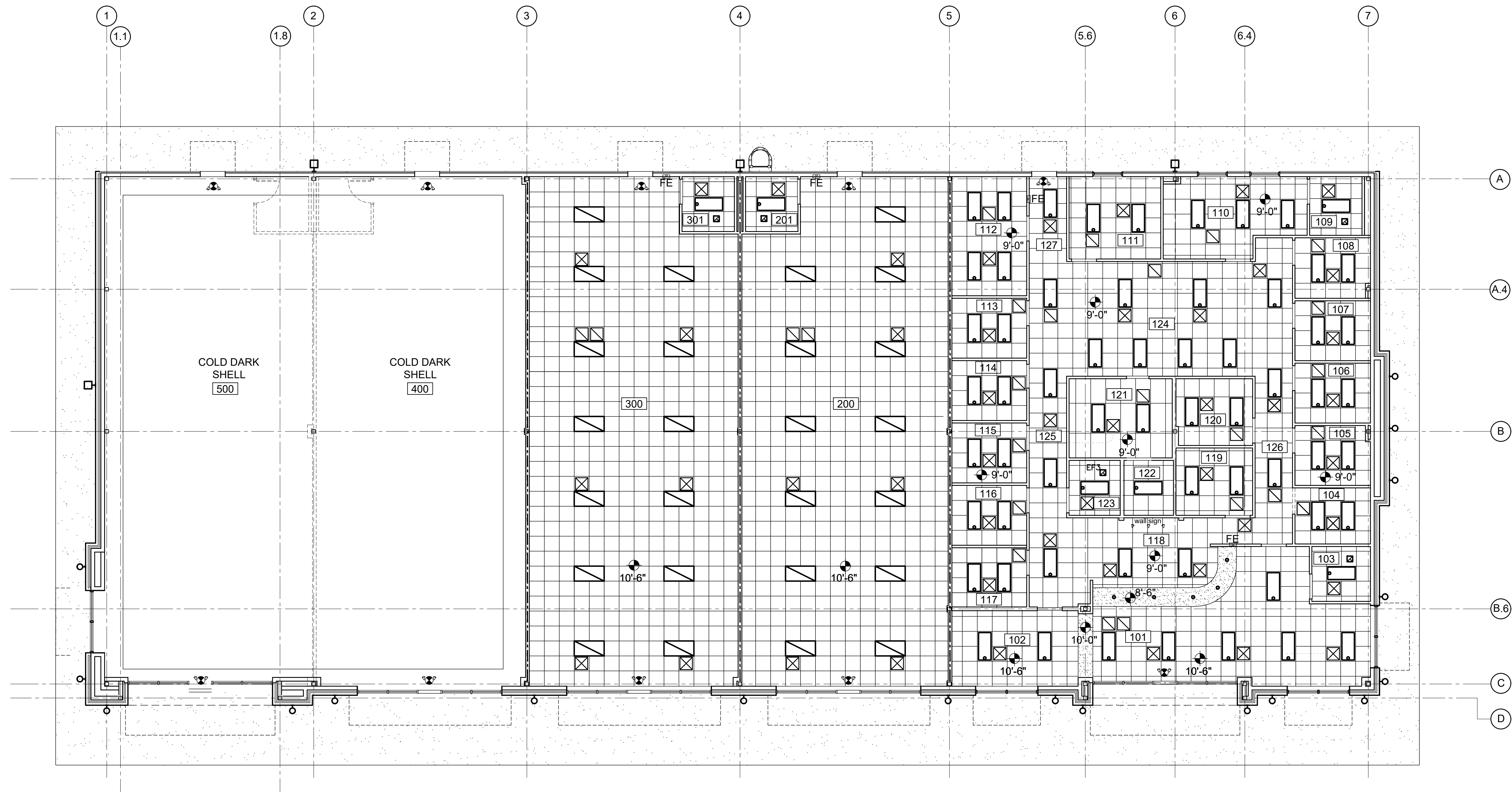
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ENLARGED PLANS & ELEVATIONS

A-602



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

REFLECTED CEILING LEGEND

- GYPSUM WALL BOARD CEILING
- 2x2 REVEALED EDGE ACT
- 2'x4' LED LIGHT FIXTURE
- EXISTING 2'x4' LIGHT FIXTURE
- EXISTING REUSED 2'x4' LIGHT FIXTURE
- 1'x4' LED LIGHT FIXTURE
- 8' INDUSTRIAL LED - CHAIN HUNG
- RECESSED LED FIXTURE
- EXISTING RECESSED CAN LIGHT
- EXISTING REUSED CAN LIGHT
- KEYLESS LIGHT FIXTURE
- DECORATIVE PENDANT FIXTURE
- DIRECTIONAL LIGHT FIXTURE
- WALL MOUNTED SCONCE
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST GRILLE
- EMERGENCY LIGHTS
- EXIT LIGHT
- EXIT LIGHT/EMERGENCY LIGHT

jch
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REFLECTED
CEILING PLAN

A-701

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE INSPECTED PRIOR TO PLACING IN SERVICE. PVC/PEX MAYBE SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

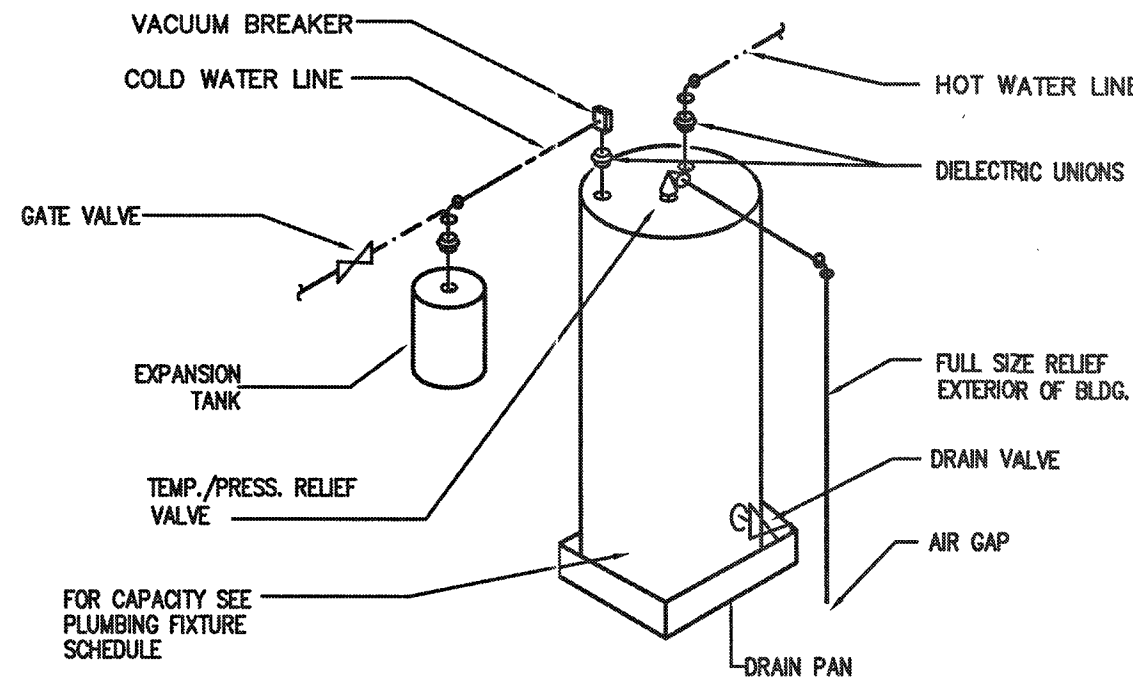
PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI. GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

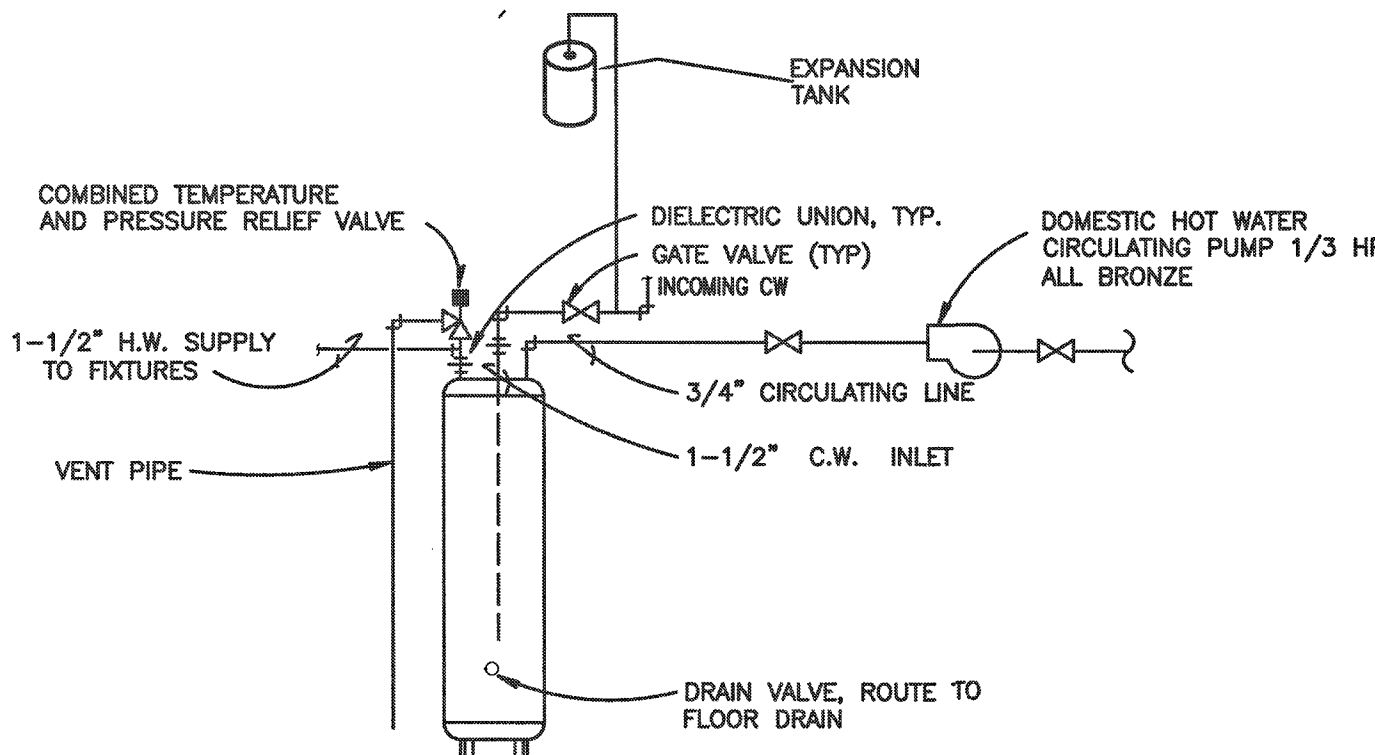
LOCATION OF UTILITIES (WASTE AND WATER LINES, MAINHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS

1 PLUMBING NOTES
P1 N.T.S.



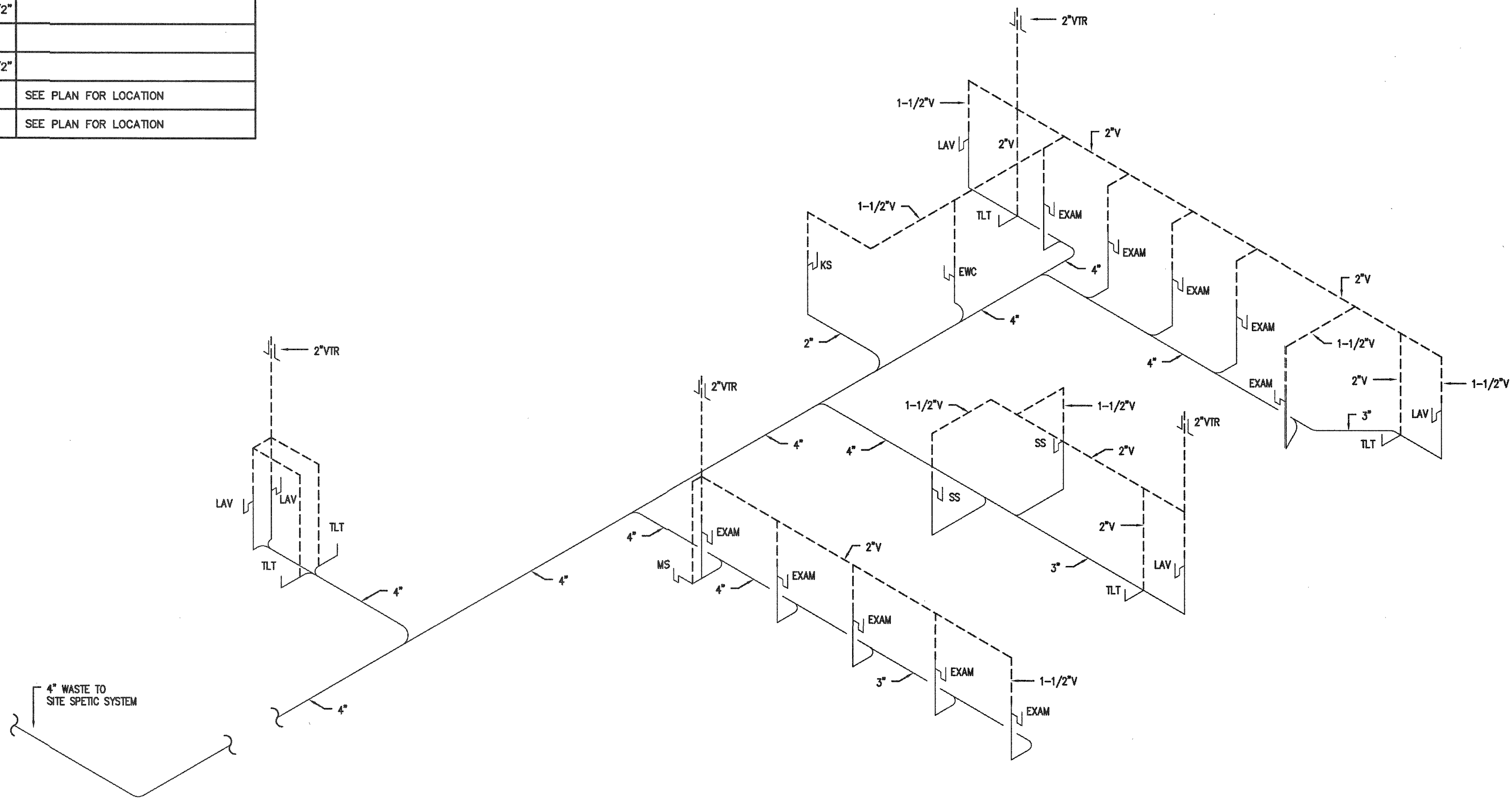
2 WATER HEATER DETAIL (HWH-2,3)
P1 N.T.S.



3 WATER HEATER DETAIL (HWH-1)
P1 N.T.S.

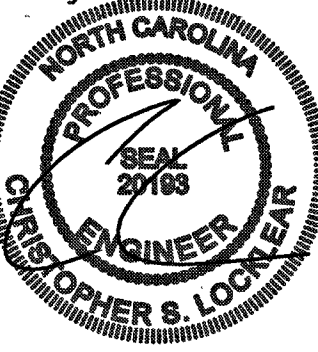
GENERAL PLUMBING SYMBOLS	
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	TEE
	ELBOW
	WALL CLEANOUT
	FLOOR CLEANOUT
	GATE VALVE
	COLD WATER
	HOT WATER
	VENT PIPING
	WASTE PIPING
	ROOF DRAIN PIPING

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1	AMERICAN STD.	270AA.001	CADET 3 RIGHT HEIGHT ELONGATED TOILET VITREOUS CHINA, 1.6 GPF - ADA	CHURCH 295C ELONGATED SEAT OPEN FRONT LESS COVER	3/4" C.W.	3"	2"	
P-2	AMERICAN STD.	0321.026	LAVATORY, WALL-TYPE	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-3	SWAN	MS2424	SERVICE SINK, FLOOR-TYPE	SWAN MS-5811, SWAN MS-2437 MOP SINK FAUCET, MOP HANGER	1/2" H.W./C.W.	3"	1-1/2"	
P-4	ELKAY	LRAD1316553CU	13" X 16" X 5-1/2" STAINLESS STEEL SINGLE BOWL DROP-IN ADA SINK	LK2477CR FAUCET	1/2" H.W./C.W.	2"	1-1/2"	VERIFY COUNTER TYPE, SINK MAY NEED TO BE DIFFERENT TYPE
P-5	ELKAY	LR3322	KITCHEN SINK	DELTA MODEL 400 FAUCET, W/SPRAYER	1/2" H.W./C.W.	2"	1-1/2"	
P-6	OATEY		ICE MAKER SERVICE BOX		1/2" C.W.			
EW-1	ELKAY	EZSTLR8C	ELECTRIC WATER COOLER (TWO STATION)	-	1/2" C.W.	2"	1-1/2"	
HWH-1,2	STATE	ES8-10-SOMS-K	10 GALLON, ELECTRIC, 1650W, 120V	3/4" T & P RELIEF VALVE	1/2" H.W./C.W.	-	-	SEE PLAN FOR LOCATION
HWH-3	STATE	PCE-82-20RTA	80 GALLON, ELECTRIC, 6000W, 208V	3/4" T & P RELIEF VALVE	1/2" H.W./C.W.	-	-	SEE PLAN FOR LOCATION



4 WATER HEATER DETAIL (HWH-1)
P1 N.T.S.

May 28, 2026



Coastal Plains Engineering, P.A.

License No. C-2009

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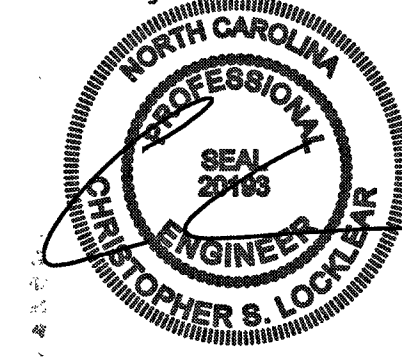
DATE: 03-24-26

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P1

May 28, 2026



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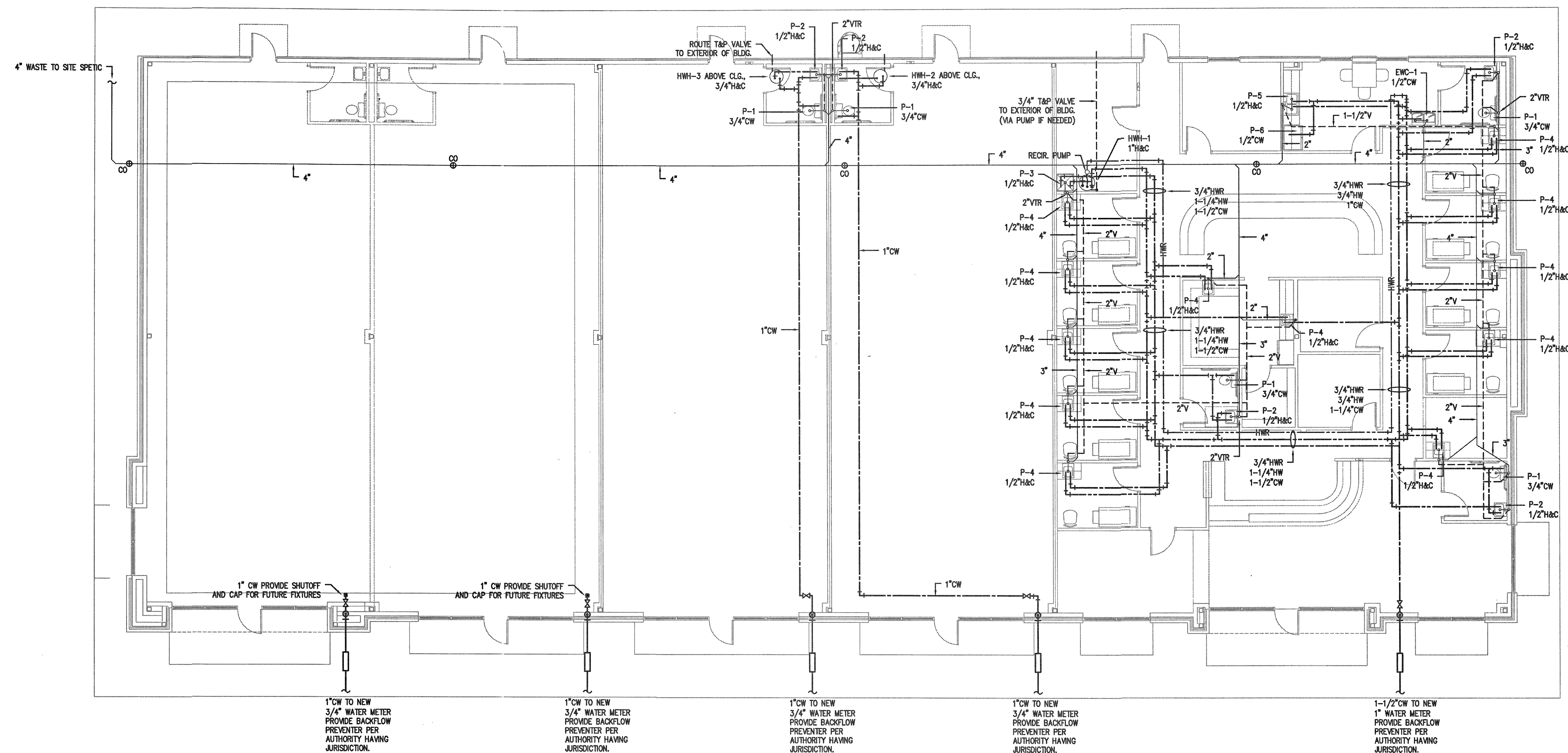
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PROJECT NO: 2026-025
DRAWN BY: CSJ/MLL
DATE: 03-24-26
REVISIONS:

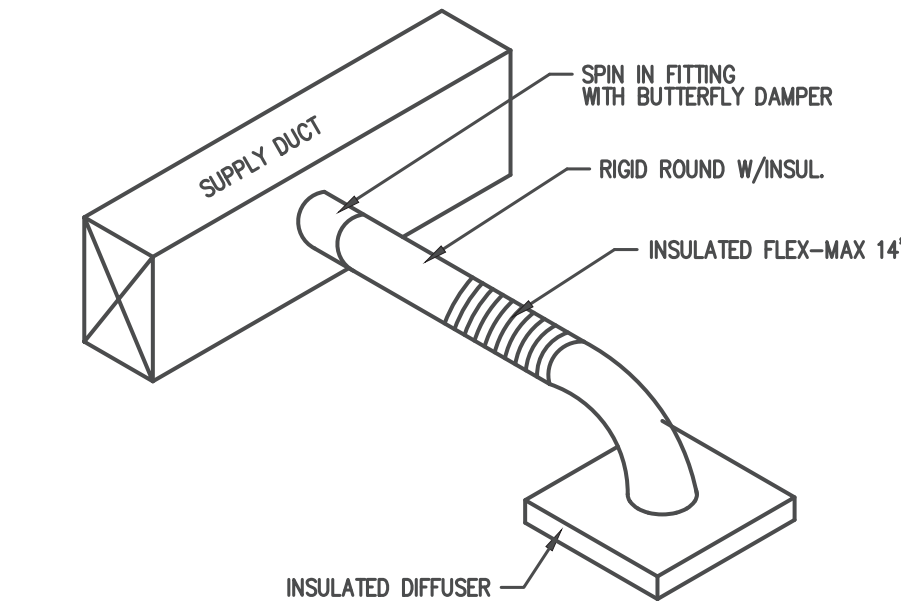
SHEET NO:

P2



1 PLUMBING PLAN
P2 1/8"=1'-0"

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR CEILING MOUNTED S/A DIFFUSER
	RECTANGULAR CEILING MOUNTED R/A OR EXHAUST GRILLE
	RUNOUT TO DIFFUSER W/VOLUME DAMPER AND CONE EXTRACTOR
	90 DEG. ELBOW W/ TURNING VANES
-----C-----	CONDENSATE DRAIN PIPING
-----R-----	REFRIGERANT PIPING
	HEATING AND COOLING THERMOSTAT. MOUNT 5'-0" A.F.F. AUTOMATIC CHANGEOVER.
	SYSTEM EMERGENCY SHUT-OFF SWITCH (RED LABELED)
	DUCT SMOKE DETECTOR - FURNISHED BY M.C., INSTALLED BY M.C., WIRED BY M.C.
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
S/D	SPLITTER DAMPER
M.D.	MANUAL DAMPER WITH LOCKING QUADRANTS
B.D.D.	BACKDRAFT DAMPER
A.F.F.	ABOVE FINISHED FLOOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
	CEILING FIRE/RADIATION DAMPER
	VERTICAL FIRE DAMPER
	DUCT SMOKE DETECTOR



1

M1

HVAC NOTES

N.T.S.

LAY-IN DIFFUSER/RETURN SCHEDULE					
MARK ON PLANS	CFM	AIR PATTERN	NECK SIZE	RUNOUT SIZE	REMARKS
	50-125	4 WAY	6 X 6	6"	PRICE SERIES ASCD OFF WHITE, ALUM.,
	150-275	4 WAY	8 X 8	8"	PRICE SERIES ASCD OFF WHITE, ALUM.,
	300-400	4 WAY	10 X 10	10"	PRICE SERIES ASCD OFF WHITE, ALUM.,
		N/A	12 X 12	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN
		N/A	20 X 20	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN

FAN SCHEDULE									
MARK	LOCATION	SERVICE	CFM	S.P.	AMPS	RPM	VOLT	PHASE	DRIVE
EF1-4	CEILING	TOILETS	70	0.125"	0.14	790	120	1	DIRECT
			GREENHECK SP-A70 OR EQ.						

ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NC MECHANICAL CODE.

ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-6.0 INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING.

ALL EXPOSED ROUND DUCT SHALL BE DOUBLE WALL INSULATED. EXPOSED RECTANGULAR DUCT SHALL BE INTERNALLY LINED WITH INSULATION

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW. VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THROUGH WALLS.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ARCHITECT.

MECHANICAL CONTRACTOR TO CONFIRM BREAKER/DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

FURNISH AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT OF THE A/C UNIT IN ACCORDANCE WITH 2018 NC MECHANICAL CODE. THE DETECTOR SHALL BE WIRED TO SHUT DOWN THE FAN IN THE EVENT THE DETECTOR IS ACTIVATED. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE DUCT DETECTOR AND RUN THE NECESSARY CONTROL WIRING FROM THE DETECTOR TO HIS EQUIPMENT. SMOKE DETECTORS ARE ONLY REQUIRED FOR UNITS SUPPLYING 2000 CFM OR MORE.

MECHANICAL CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT SYSTEM COMPLIANCE STATEMENT REQUIRES A WRITTEN TAB REPORT. FINAL PROJECT SIGNOFF WILL BE DENIED WITHOUT THIS REPORT

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

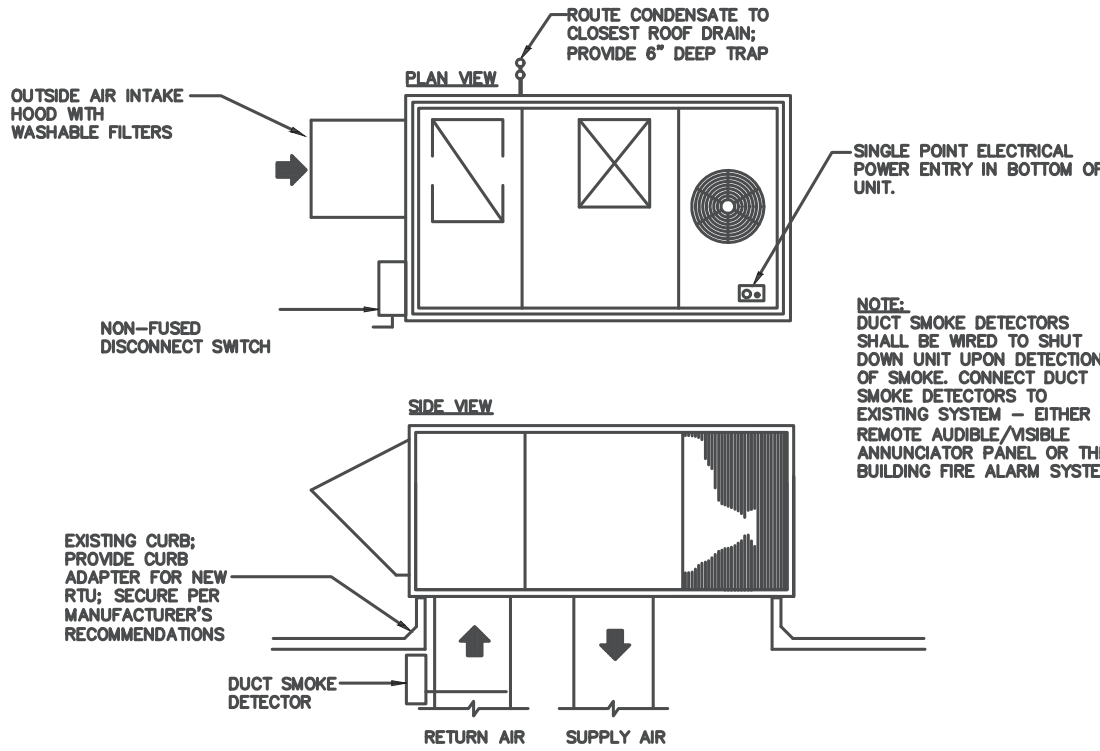
BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.

4

M1

HVAC NOTES

N.T.S.



2

M1

ROOF TOP UNIT DETAIL

N.T.S.

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone 4A

winter dry bulb: 27°

summer dry bulb: 94°

Interior design conditions

winter dry bulb: 40°

summer dry bulb: 75°

relative humidity: 50%

Building heating load: 101,981 BTU

Building cooling load: 95,651 BTU

Mechanical Spacing Conditioning System

Unitary

description of unit: PACKAGE HEAT PUMP

heating efficiency: 8.2 HSPF

cooling efficiency: 14.0 SEER

size category of unit: <65,000 BTU

Boiler

Size category. If oversized, state reason:.

Chiller

Size category. If oversized, state reason:.

List equipment efficiencies:

SYSTEMS USING A2L REFRIGERANT SHALL BE LISTED TO UL STANDARD 60335-2-40, CURRENT EDITION.

PER EPA SNAP 23, SYSTEMS USING A2L REFRIGERANT SHALL HAVE PERMANENTLY AFFIXED MARKINGS AND LABELING TO INDICATE REFRIGERANT INSTALLED IN THE SYSTEM AND NOTICE OF LEAK DETECTION SYSTEM INSTALLED, AND SHALL HAVE SERVICE PORTS, PIPES, HOSES AND OTHER DEVICES THROUGH WHICH REFRIGERANT FLOWS TO BE MARKED IN RED.

SYSTEMS USING A2L REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR COOL WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNITS FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.

FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.

AS PART OF SUBMITTALS, PROVIDE CALCULATED RELEASABLE REFRIGERANT CHARGE FOR EACH SYSTEM, INCLUDING CONNECTING PIPING.

3

M1

A2L REFRIGERANT NOTES

N.T.S.

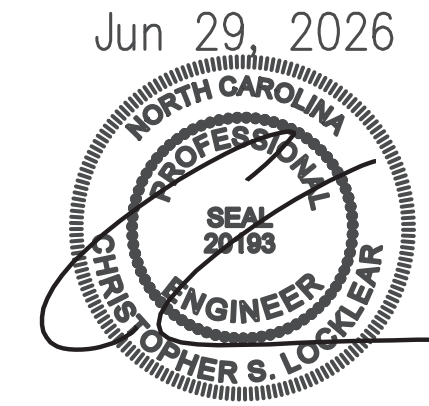
OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
STORAGE	159	0	0	0	0	0.12	39		
OFFICE	127	0	0	0	0	0.06	8		
CORRIDOR	186	50	9.3	10	5	0.06	61		
BREAK ROOM	54	0	0	0	0	0	0		70
TOILET	81	5	0.405	1	5	0.06	30		
EXAM 6									
TOTAL CFM REQUIRED							311		70
TOTAL CFM FURNISHED							311		70

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
EXAM 1	80	5	0.4	1	5	0.06	30		
CORRIDOR	191	0	0	0	0	0.12	29		
FRONT DESK	100	5	0.75	1	5	0.06	34		
WAITING AREA	680	30	20.4	21	5	0.06	146		
TOILET	57	0	0	0	0	0	0		70
TOTAL CFM REQUIRED							359		70
TOTAL CFM FURNISHED							359		70

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
EXAM 5	80	5	0.4	1	5	0.06	30		
EXAM 4	80	5	0.4	1	5	0.06	30		
EXAM 3	80	5	0.4	1	5	0.06	30		
EXAM 2	80	5	0.4	1	5	0.06	30		
CORRIDOR	127	0	0	0	0	0.06	8		
NURSE STATION	208	5	3.29	2	5	0.06	25		
LAB	146	5	0.75	1	5	0.06	34		
TOILET	90	5	0.45	1	5	0.06	30		
OFFICE	50	0	0	0	0	0	0		70
STORAGE	50	0	0	0	0	0.12	6		
TOILET	92	5	0.46	1	5	0.06	31		
CORRIDOR	387	0	0	0	0	0.06	11		
EXAM 7	80	5	0.4	1	5	0.06	30		
EXAM 8	80	5	0.4	1	5	0.06	30		
EXAM 9	80	5	0.4	1	5	0.06	30		
TRIAGE	75	5	0.375	1	5	0.06	30		
TOTAL CFM REQUIRED							363		70
TOTAL CFM FURNISHED							363		70

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
RETAIL	1845	15	27.675	28	7.5	0.12	431		
TOILET	51	0	0	0	0	0	0		70
TOTAL CFM REQUIRED							431		70
TOTAL CFM FURNISHED							431		70

OUTSIDE AIR CALCULATION -NC 2024 MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz									
OCCUPANCY TYPE:	SF (A)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS ROUGH	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED	
RETAIL	1845	15	27.675	28	7.5	0.12	431		
TOILET	51	0	0	0	0	0	0		70
TOTAL CFM REQUIRED							431		70
TOTAL CFM FURNISHED							431		70



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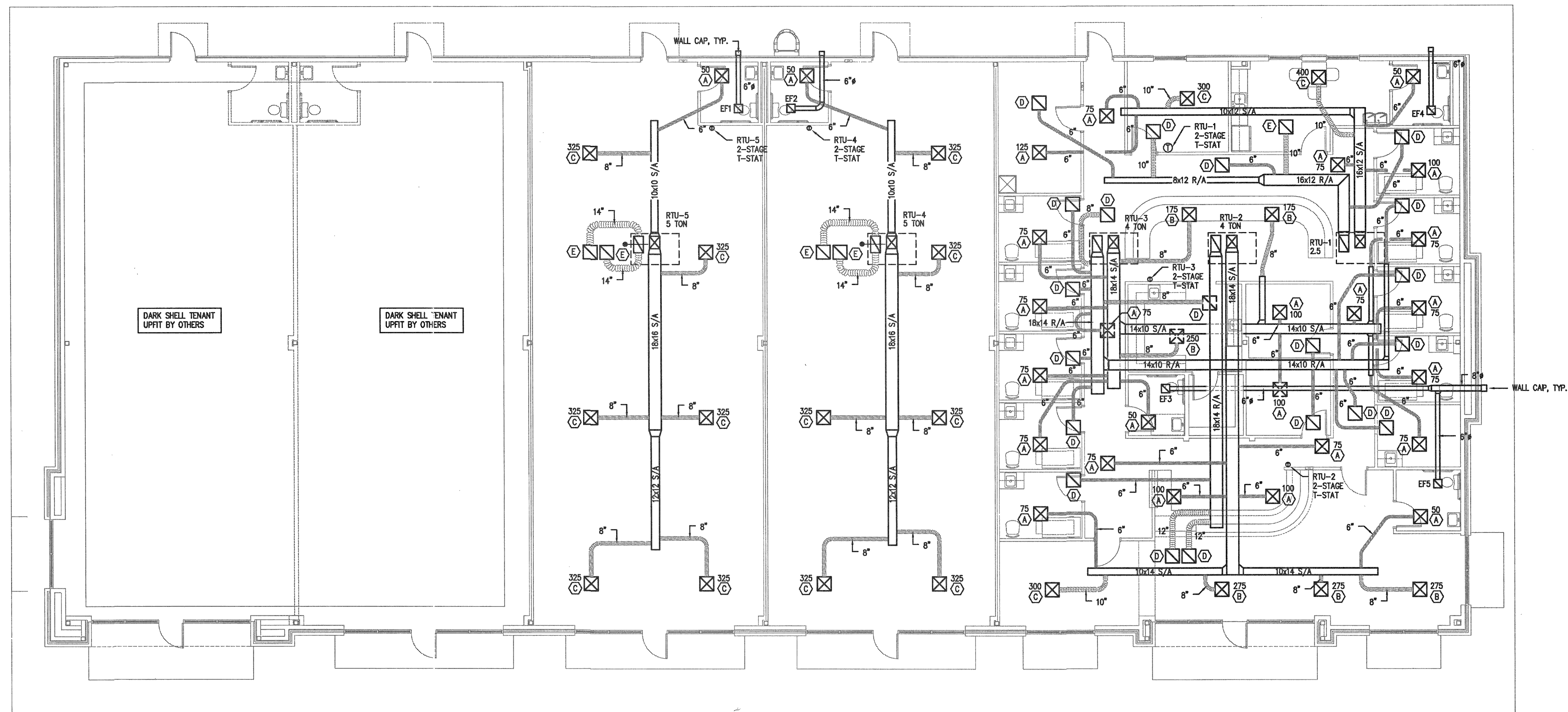
DRAWN BY: CSJ/MLL

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SHEET NO:

M1



1
M2 HVAC PLAN
1/8"=1'-0"



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SHEET NO:
M2

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN OR THWN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX PERMITTED.

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUNITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE 1 WILL BE USED FOR CONCRETE ENCASUREMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUIDTIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUIDTIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR GRILLE.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.

ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

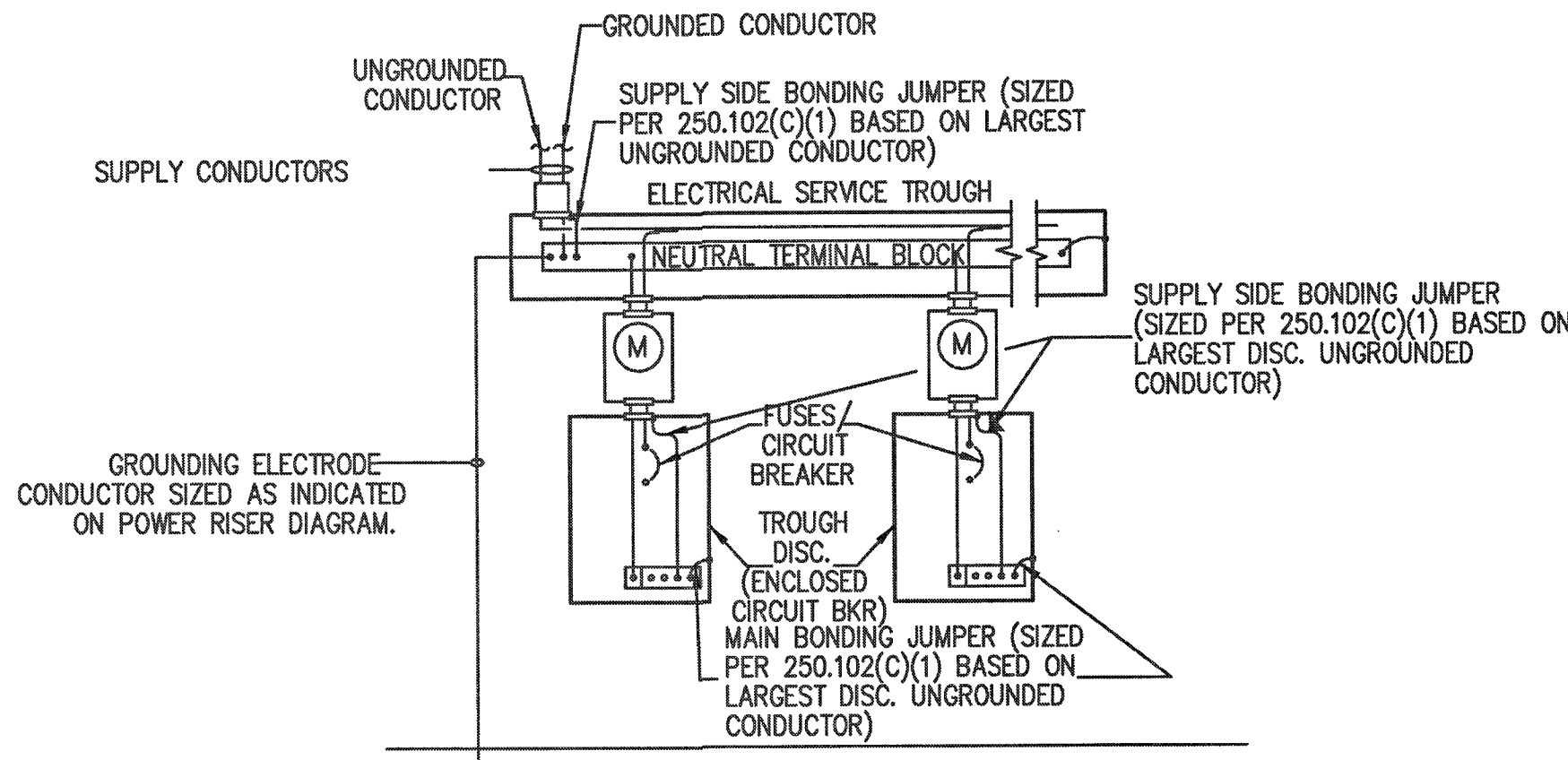
WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER.

ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES

RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF ASSEMBLY

ELECTRICAL SYMBOL LIST

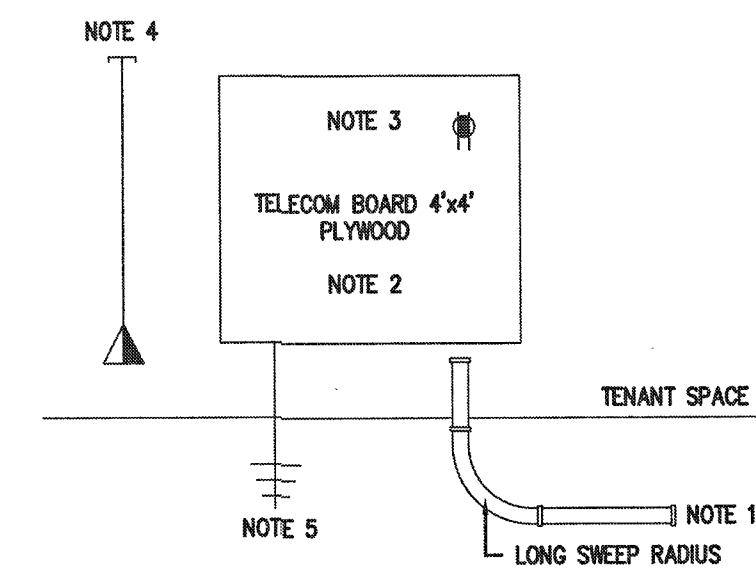
○	LIGHT FIXTURE INCANDESCENT OR H.I.D.	⊗	EXIT LIGHT FIXTURE
○	LIGHT FIXTURE WALL MOUNTED	NL	NIGHT LIGHT
○	FLOURESCENT LIGHT FIXTURE	⚡	EMERGENCY LIGHT W/ 90 MIN. BATTERY
⊕	DUPLEX REICEPTACLE (+18")	⊕	GFI TYPE RECEPTACLE
⊕	ISOLATED GROUND TYPE D.R.	D.R.	DUPLEX RECEPTACLE
(+0")	CENTERLINE HEIGHT OF DEVICE BOX ABOVE FINISH FLOOR		
S	SINGLE PCLE SWITCH (+42")	⚡	SW. WITH PILOT LIGHT
S ₂	3-WAY SWITCH (+42")	⚡	3-WAY SW. W/ PILOT LIGHT(+42")
S ₄	4-WAY SWITCH (+42")	⊕	SPECIAL PURPOSE OUTLET
S ₂	KEYED SINGLE POLE SWITCH (+42")	S ₂	KEYED THREE-WAY SWITCH
⊕	N/F DISCONNECT SWITCH	⊕	FUSED DISCONNECT SWITCH
RT	RAINTIGHT (NEMA 3R)	(60/50/3)	AMP SIZE/FUSE SIZE/POLES
⊕	STARTER	⊕	DUPLEX RECEPT. FLOOR MTD.
⊕	MOTOR SYMBOL	⚡	MANUAL STARTER SWITCH
⊕	RELAY	⊕	DIMMER SWITCH
⊕	PUSHBUTTON OR CONTROL STATION	⊕	PHOTOCONTROL
⊕	TELEPHONE: O.B. (3/4" C. TO CEILING SPACE)	O.B.	OUTLET BOX
⊕	DATA O.B. (3/4" C. TO CEILING SPACE)	⊕	CHILD-PROOF
⊕	TELEPHONE & DATA O.B. (3/4" C. TO CEILING SPACE)		
⊕	PLAN NOTE: SYMBOL WP WEATHERPROOF	A.F.F.	ABOVE FINISH FLR.
C/B	CIRCUIT BREAKER	CKT.	CIRCUIT
---	CONCEALED CONDUIT (2#12 AWG AND APPROVED GROUND MINIMUM - TYPICAL)	---	CONDUIT
---	CONDUIT BELOW FLOOR OR GRADE	---	CONDUIT EXPOSED
HOMERUN	NUMBER OF WIRES, PANEL DESIGNATION, CIRCUIT NUMBERS		
⊕	BRANCH CIRCUIT PANELBOARD	⊕	MAIN DISTRIBUTION PANEL
⊕	QUAD RECEPTACLE	⊕	CATV OUTLET
⊕	ALARM OUTLET BOX (3/4" CONDUIT TO CEILING SPACE)		



GROUNDING DETAIL NOTES:

- GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC 250.52(A).
- GROUNDING ELECTRODES SHALL BE INSTALLED IN ACCORDANCE WITH NEC 250.53.

2
E1
GUTTER GROUNDING DIAGRAM
N.T.S.



TELECOM RISER NOTES

- NEW 1" CONDUIT PROVIDED UNDER SLAB TO BUILDING TELECOM CABINET. EXTEND CONDUIT STUB-IN AS NEEDED TO REACH TELECOM BOARD LOCATION.
- 3/4" FINISH GRADE PLYWOOD BACKBOARD PAINTED WITH FLAME RETARDANT PAINT. MOUNT 24" AFF TO BOTTOM OF BOARD.
- PROVIDE DUPLEX RECEPTACLE ON A DEDICATED CIRCUIT FOR TELEPHONE AND OTHER COMMUNICATION EQUIPMENT.
- TELEPHONE/DATA OUTLET, +18" A.F.F. TO CENTER, W/ 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING.
- PROVIDE #6 CU GROUND TO SERVICE GROUND BAR WITH ADEQUATE SLACK FOR GROUNDING OF TELECOM EQUIPMENT.

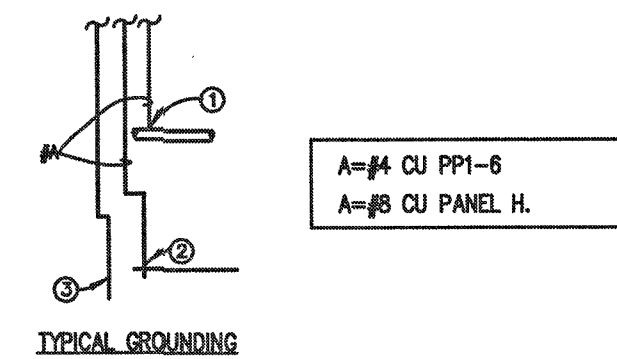
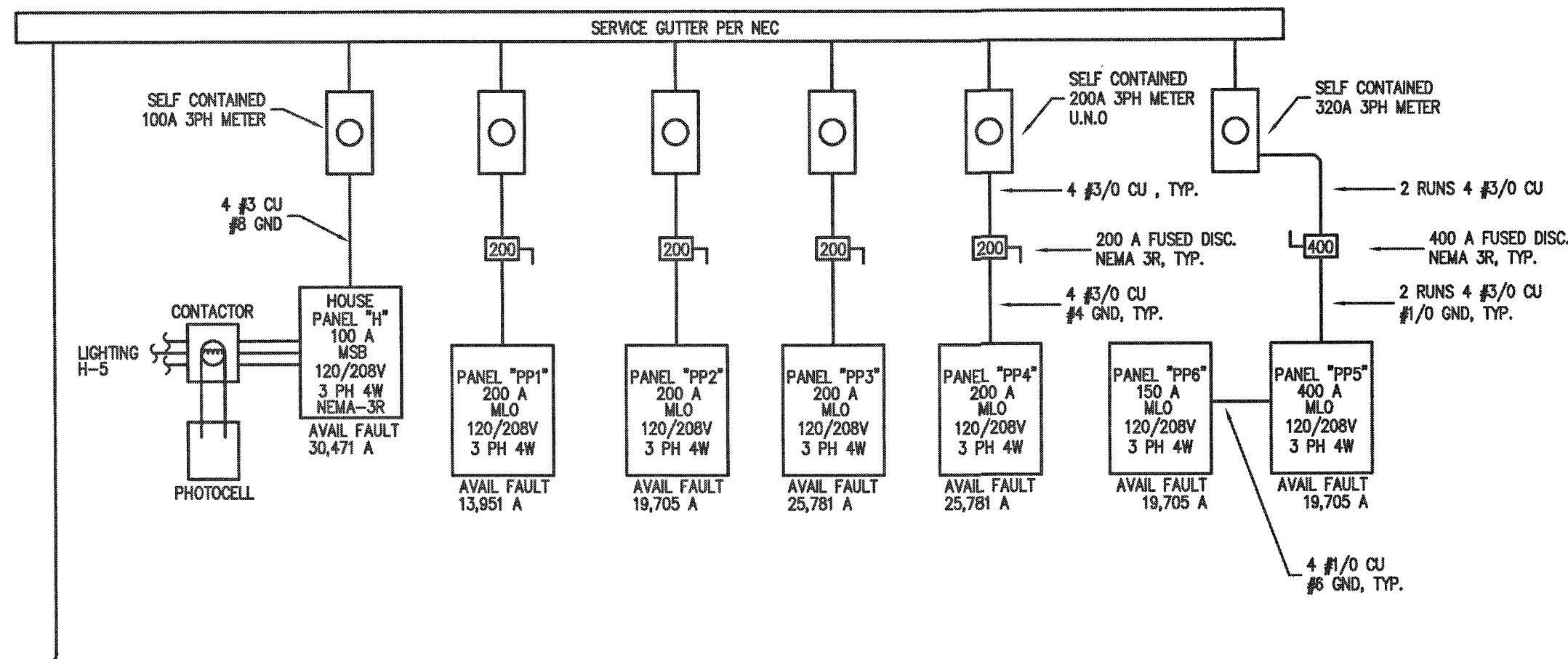
3
E1
TELECOM RISER NOTES
N.T.S.

1
E1
ELECTRICAL NOTES
N.T.S.

ROOM MOUNTING FLUSH FED FROM UTILITY NOTE										VOLTS 208Y/120V 3P 4W BUS AMPS 100 NEUTRAL 100%				A/C 35,000 MAIN BKR 100 LUGS STANDARD			
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA								
			A	B	C				A	B	C						
1	20/1	SITE LIGHTING	0.908	0.221	0.542	2	20/1	SPACE	0								
3	20/1	LIGHTING				4	20/1	SPACE		0							
5	20/1	LIGHTING				6	20/1	SPACE			0						
7	20/1	SPACE	0			8	20/1	SPACE	0								
9	20/1	SPACE		0		10	20/1	SPACE		0							
11	20/1	SPACE			0	12	20/1	SPACE			0						
13	20/1	SPACE	0			14	20/1	SPACE	0								
15	20/1	SPACE		0		16	20/1	SPACE		0							
17	20/1	SPACE			0	18	20/1	SPACE			0						
19	20/1	SPACE	0			20	20/1	SPACE	0								
						TOTAL CONNECTED KVA BY PHASE			0.908	0.221	0.542						
			CONN KVA	CALC KVA					CALC KVA								
LIGHTING			1.67	2.09	(125%)	TOTAL LOAD BALANCED 3-PHASE LOAD			2.09 5.8 A								

AVAILABLE FAULT CALCULATIONS
20'-0" OF 4 RUNS OF 4 #400 TO
500 KVA PAD MOUNT 2.8052
41,952 A

FROM UTILITY



GROUNDING ELECTRODE DETAILS

GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 BARE COPPER. OTHER MATERIAL AND INSTALLATION PER NEC 250

- CONNECT TO METALLIC WATER PIPE AS REQ'D.
- #4 COPPER GROUND PLACED TO BLDG STEEL
- 3/4"x10' LONG COPPER CLAD GROUNDING ROD W/ #6 COPPER GROUND.

ELECTRICAL LOAD SUMMARY

LOAD TYPE	
HOUSE PANEL	6,190 KVA
RETAIL SPACES	25 KVA
RETAIL SPACES	25 KVA
RETAIL SPACES	25 KVA
RETAIL SPACES	25 KVA
RETAIL SPACES	25 KVA
HEALTH CARE	71 KVA
TOTAL	177.2 KVA

4
E1
ELECTRIC RISERS
N.T.S.

May 28, 2026



Coastal Plains Engineering, P.A.

License No. C-2069

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PROJECT NO: 2026-1025

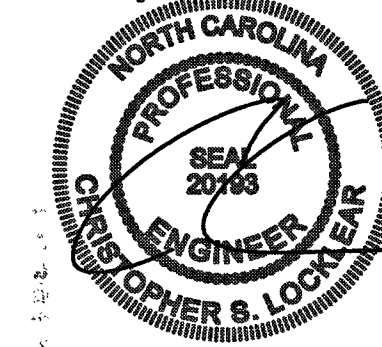
DRAWN BY: CS/MLL

DATE: 03-24-26

REVISIONS:

SHEET NO:

E1



PP3

ROOM			VOLTS 208Y/120V 3P 4W			AIC 30,000					
MOUNTING FLUSH			BUS AMPS 200			MAIN BKR MLO					
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD					
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	80/3	RTU-5***	4.77			2	20/1	EF1, LIGHTING	0.645		
3				4.77		4	20/1	SPACE		0	
5					4.77	6	20/1	SPACE			0
7	20/1	HHW-3	1.65			8	20/1	SPACE	0		
9	20/1	RECEPTACLE		0.72		10	20/1	SPACE		0	
11	20/1	SIGN			1.2	12	20/1	SPACE			0
13	20/1	RECEPTACLE	0.72			14	20/1	SPACE	0		
15	20/1	RECEPTACLE		0.18		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									7.78	5.67	5.97
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING			1.83	2.28	(125%)	CONTINUOUS			1.65	2.06	(125%)
LARGEST MOTOR			5.01	1.25	(25%)	NONCONTINUOUS			0.02	0.02	(100%)
RECEPTACLES			1.62	1.62	(50%>10)	HEATING			14.3	14.3	(100%)
						COOLING			6.8	0	(0%)
*** VERIFY W/MANF						TOTAL LOAD			21.5		
						BALANCED 3-PHASE LOAD			59.8 A		

PP4

ROOM			VOLTS 208Y/120V 3P 4W			AIC 30,000					
MOUNTING FLUSH			BUS AMPS 200			MAIN BKR MLO					
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD					
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	80/3	RTU-4 ***	4.77			2	20/1	EF2, LIGHTING	0.645		
3				4.77		4	20/1	SPACE		0	
5					4.77	6	20/1	SPACE			0
7	20/1	HHW-2	1.65			8	20/1	SPACE	0		
9	20/1	RECEPTACLE		0.72		10	20/1	SPACE		0	
11	20/1	SIGN			1.2	12	20/1	SPACE			0
13	20/1	RECEPTACLE	0.72			14	20/1	SPACE	0		
15	20/1	RECEPTACLE		0.18		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									7.78	5.67	5.97
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING			1.83	2.28	(125%)	CONTINUOUS			1.65	2.06	(125%)
LARGEST MOTOR			5.01	1.25	(25%)	NONCONTINUOUS			0.02	0.02	(100%)
RECEPTACLES			1.62	1.62	(50%>10)	HEATING			14.3	14.3	(100%)
						COOLING			6.8	0	(0%)
*** VERIFY W/MANF						TOTAL LOAD			21.5		
						BALANCED 3-PHASE LOAD			59.8 A		

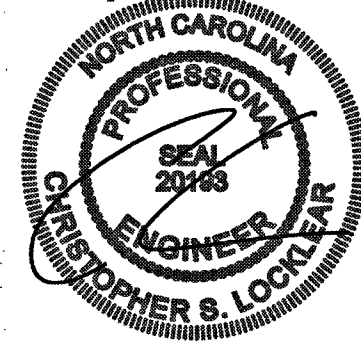
PP5

ROOM			VOLTS 208Y/120V 3P 4W			AIC 20,000					
MOUNTING FLUSH			BUS AMPS 400			MAIN BKR MLO					
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD					
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	UTILITY RECEPTACLE	0.36			2	20/1	EXAM 7 RECEPTACLE	0.72		
3	20/1	UTILITY RECEPTACLE		0.54		4	20/1	EXAM 6 RECEPTACLE		0.72	
5	40/2	HHW-1			3	6	20/1	ENC RECEPTACLE			0.18
7			3			8	20/1	BREAK RM RECEPTACLE	0.54		
9	20/1	RECIR. PUMP		0.864		10	20/1	BREAK RM RECEPTACLE		0.18	
11	20/1	EXAM 5 RECEPTACLE			0.72	12	20/1	BREAK RM RECEPTACLE			0.36
13	20/1	EXAM 4 RECEPTACLE	0.72			14	20/1	OFFICE RECEPTACLE	0.72		
15	20/1	EXAM 3 RECEPTACLE		0.72		16	20/1	NURSE STATION RECEPTACLE		0.54	
17	20/1	EXAM 2 RECEPTACLE			0.72	18	20/1	NURSE STATION RECEPTACLE			0.54
19	20/1	EXAM 1 RECEPTACLE	0.72			20	20/1	OFFICE RECEPTACLE	0.72		
21	20/1	WAITING AREA RECEPTACLE		1.08		22	20/1	NURSE STATION RECEPTACLE		0.36	
23	20/1	RECEPTION RECEPTACLE			0.72	24	80/2	RTU-1***			5.05
25	20/1	RECEPTION RECEPTACLE	1.08			26			5.05		
27	20/1	CORRIDOR RECEPTACLE		0.54		28	20/1	RECEPTACLE		0.18	
29	20/1	CORRIDOR RECEPTACLE			0.9	30	20/1	SPACE			0
31	150/3	PANEL PP6	8.62			32	20/1	SPACE	0		
33				7.73		34	20/1	SPACE		0	
35					7.44	36	20/1	SPACE			0
37	60/3	RTU-2***	4.46			38	20/1	SPACE	0		
39				4.46		40	20/1	SPACE		0	
41					4.46	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									26.7	17.9	24.1
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING			5.32	6.65	(125%)	CONTINUOUS			6	7.5	(125%)
LARGEST MOTOR			4.29	1.07	(25%)	NONCONTINUOUS			0.06	0.06	(100%)
MOTORS			0.864	0.864	(100%)	HEATING			36.9	36.9	(100%)
RECEPTACLES			19.6	14.8	(50%>10)	COOLING			15.9	0	(0%)
*** VERIFY W/MANF						TOTAL LOAD			67.8		
						BALANCED 3-PHASE LOAD			188 A		

PP6

ROOM			VOLTS 208Y/120V 3P 4W			AIC 20,000					
MOUNTING FLUSH			BUS AMPS 150			MAIN BKR MLO					
FED FROM PP5			NEUTRAL 100%			LUGS STANDARD					
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	SPACE	0			2	20/1	LIGHTING	0.617		
3	20/1	SPACE		0		4	20/1	LIGHTING		0.445	
5	20/1	SPACE			0	6	20/1	EF5, LIGHTING			0.64
7	60/3	RTU-3***	4.46			8	20/1	EF4, LIGHTING	0.726		
9				4.46		10	20/1	EF3, LIGHTING		0.549	
11					4.46	12	20/1	EXAM 8 RECEPTACLE			0.72
13	20/1	SIGN	1.2			14	20/1	EXAM 9 RECEPTACLE	0.72		
15	20/1	SIGN		1.2		16	20/1	TRIAGE RECEPTACLE		0.72	
17	20/1	LAB RECEPTACLE			0.36	18	20/1	TLT/STOR./CORR. RECEPTACLE			0.72
19	20/1	LAB RECEPTACLE	0.18			20	20/1	OFFICE RECEPTACLE	0.72		
21	20/1	LAB RECEPTACLE		0.36		22	20/1	SPACE		0	
23	20/1	LAB RECEPTACLE			0.54	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE		0	0.36	36	20/1	SPACE			0
37	20/1	SPACE				38	20/1	SPACE	0		
39	20/1	SPACE	0	0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
						TOTAL CONNECTED KVA BY PHASE			8.62	7.73	7.44
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			5.32	6.65	(125%)	NONCONTINUOUS			0.06	0.06	(100%)
LARGEST MOTOR			4.29	1.07	(25%)	HEATING			13.4	13.4	(100%)
RECEPTACLES			5.04	5.04	(50%-10)	COOLING			5.88	0	(0%)
*** VERIFY W/MANF						TOTAL LOAD			26.2		
						BALANCED 3-PHASE LOAD			72.7 A		

May 28, 2026



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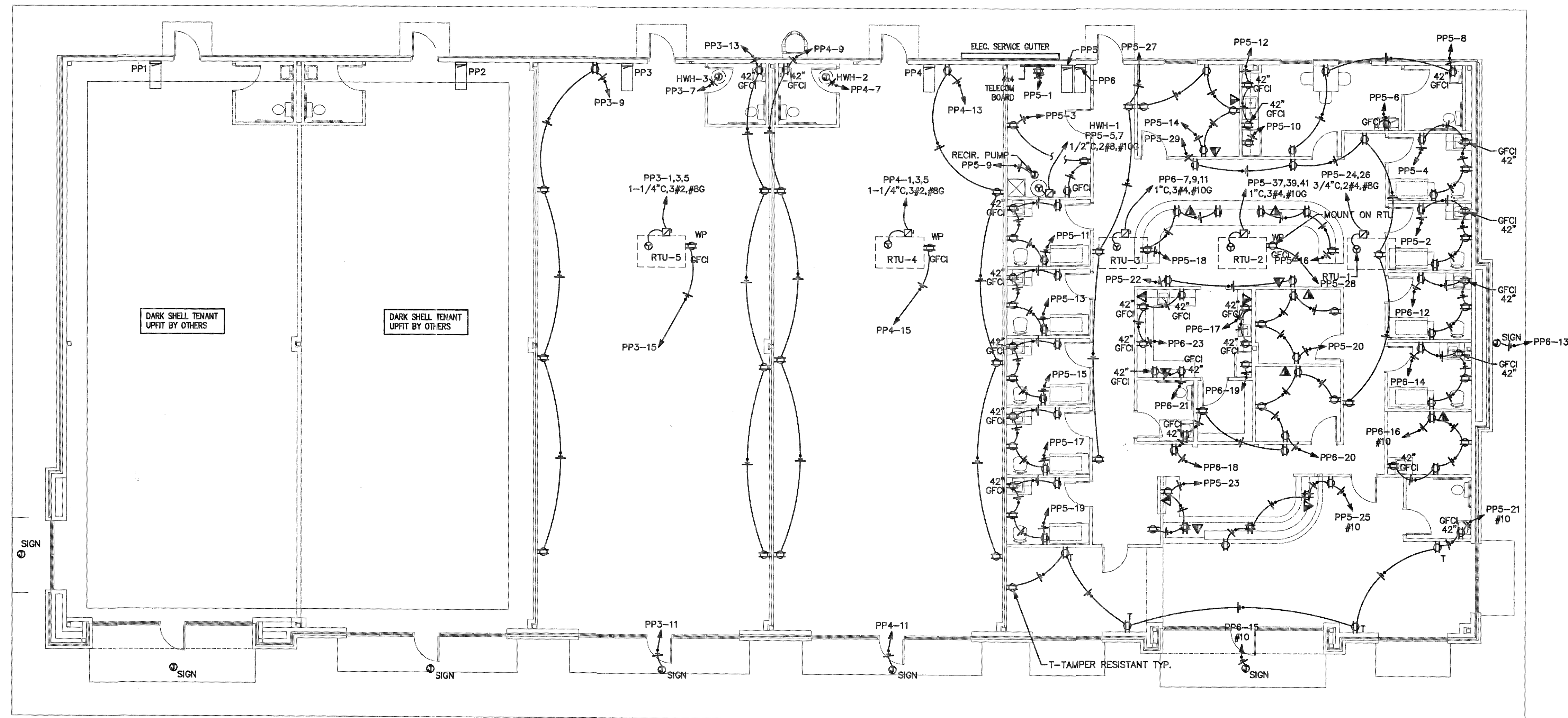
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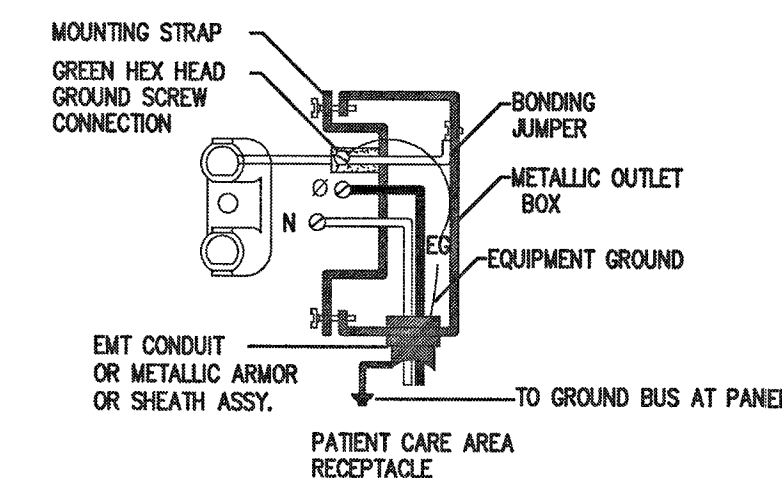
PROJECT NO: 2026-025
DRAWN BY: CSJ/MJL
DATE: 05-24-26
REVISIONS:

SHEET NO:

E3

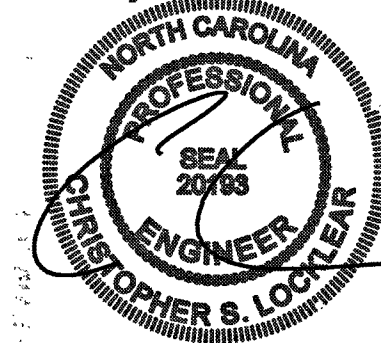


1 ELECTRICAL PLAN
E3 1/8"=1'-0"



2 PATIENT CARE RECEPTACLE
E3 NTS

May 28, 2026



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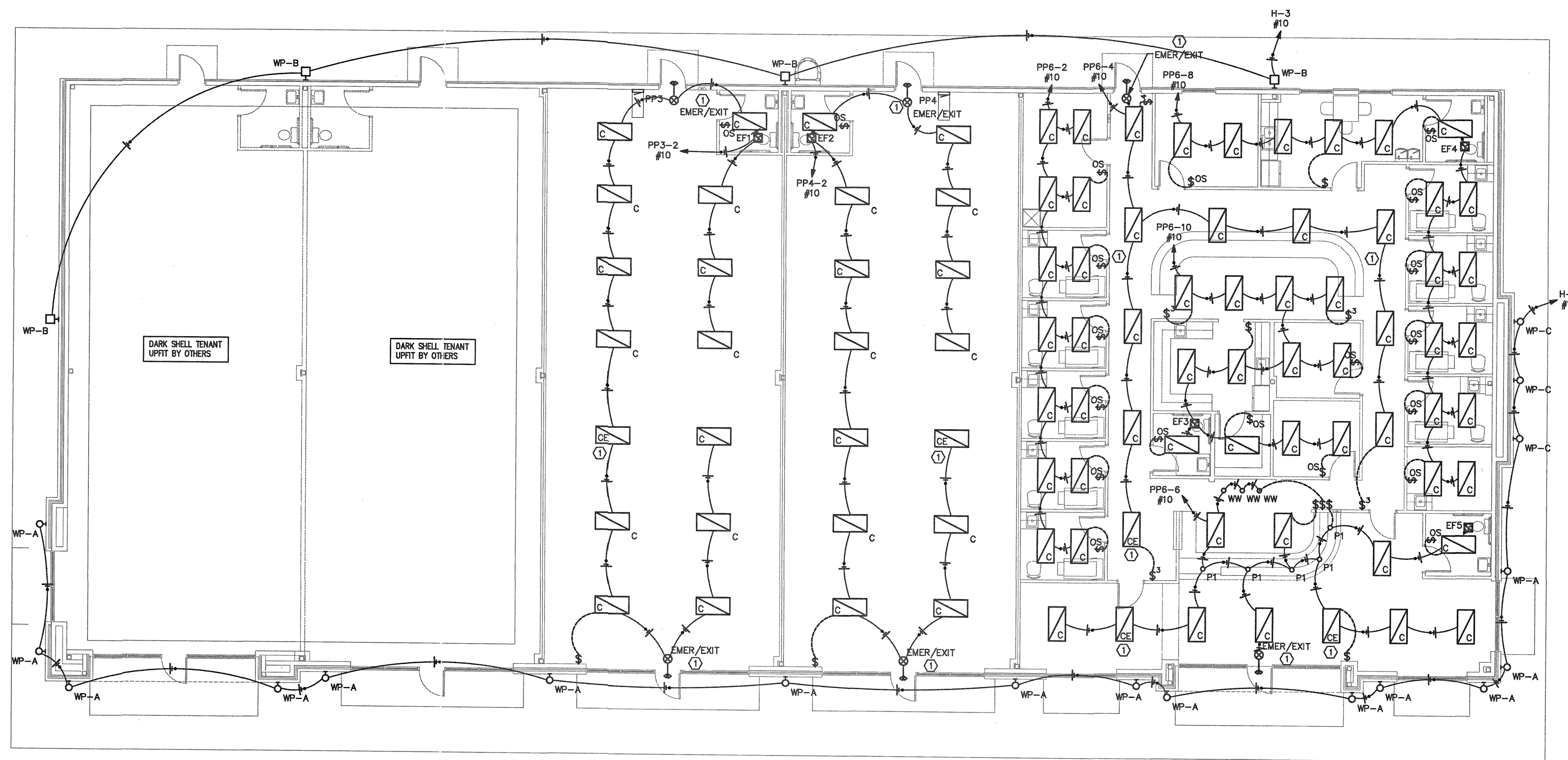
PROJECT NO: 2026-025

DATE: 03-24-26

REVISIONS

SHEET NO:

E4



APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

Energy Code: ☒ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)

lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture

SEE FIXTURE SCHEDULE

3815/7372 total interior wattage specified vs. allowed (whole building or space by space)

784/27148 total exterior wattage specified vs. allowed

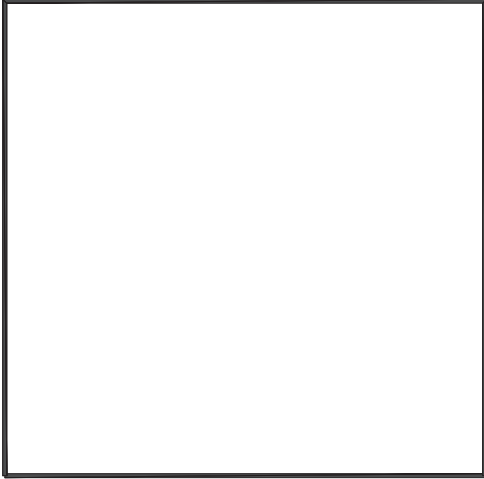
Additional Prescriptive Compliance

- ☐ 506.2.1 More Efficient HVAC Equipment
- ☒ 506.2.2 Reduced Lighting Power Density
- ☐ 506.2.3 Energy Recovery Ventilation Systems
- ☐ 506.2.4 Higher Efficiency Service Water Heating
- ☐ 506.2.5 On-Site Supply of Renewable Energy
- ☐ 506.2.6 Automatic Daylighting Control Systems

1 LIGHTING PLAN
E4 1/8"=1'-0"

BRYANT (HUBBELL) MSD1000W OR EQUAL WALL SWITCH OCCUPANCY SENSOR
DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY
1,000 SQUARE FOOT COVERAGE
800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC
ALL O.S. TO BE WALL MOUNTED TO ALLOW FOR OCCUPANT MANUAL OVERRIDE

① UNSWITCHED LEG OF CIRCUIT TO BATT PACK, SWITCHED LEG TO NORMAL LED DRIVER



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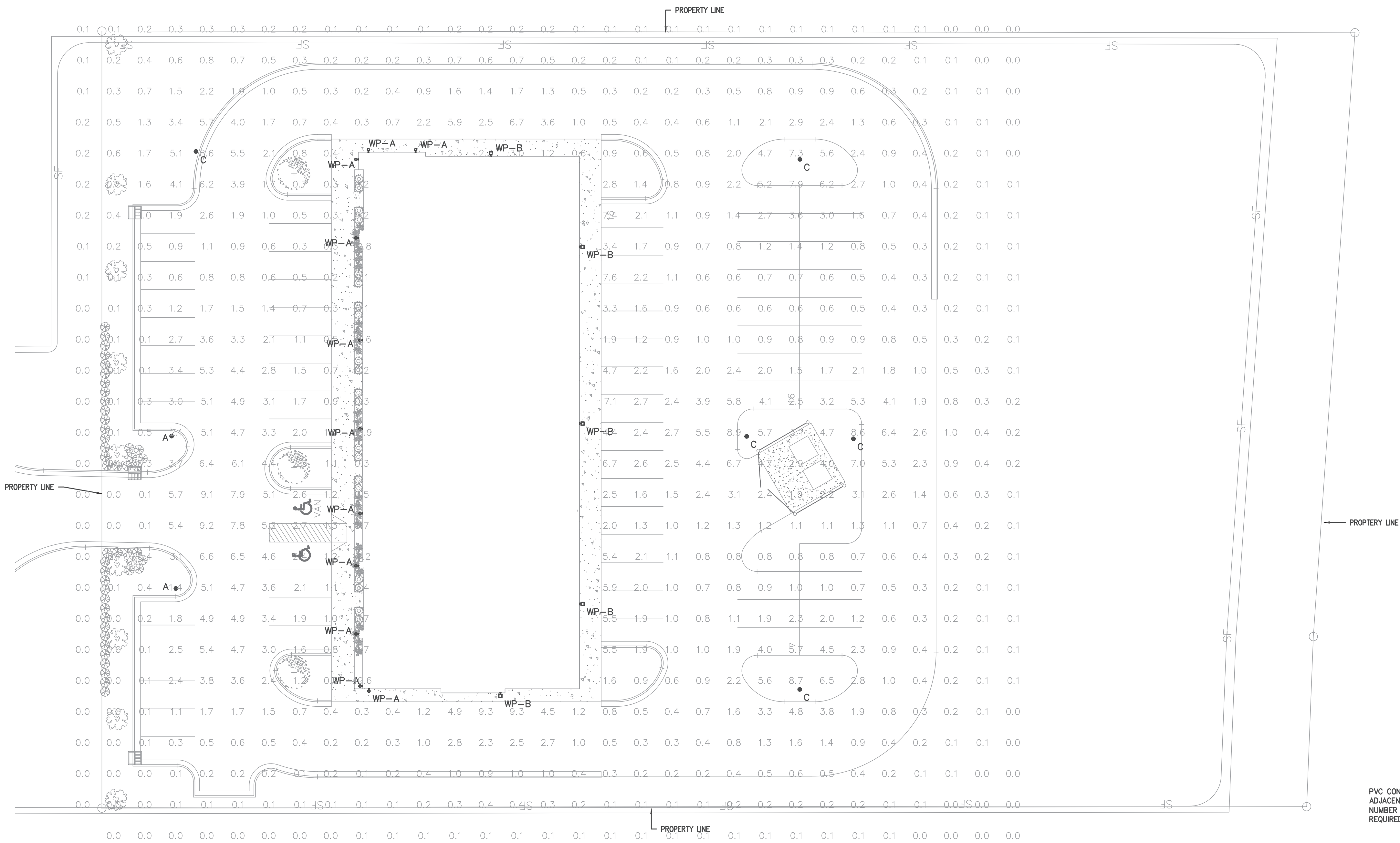
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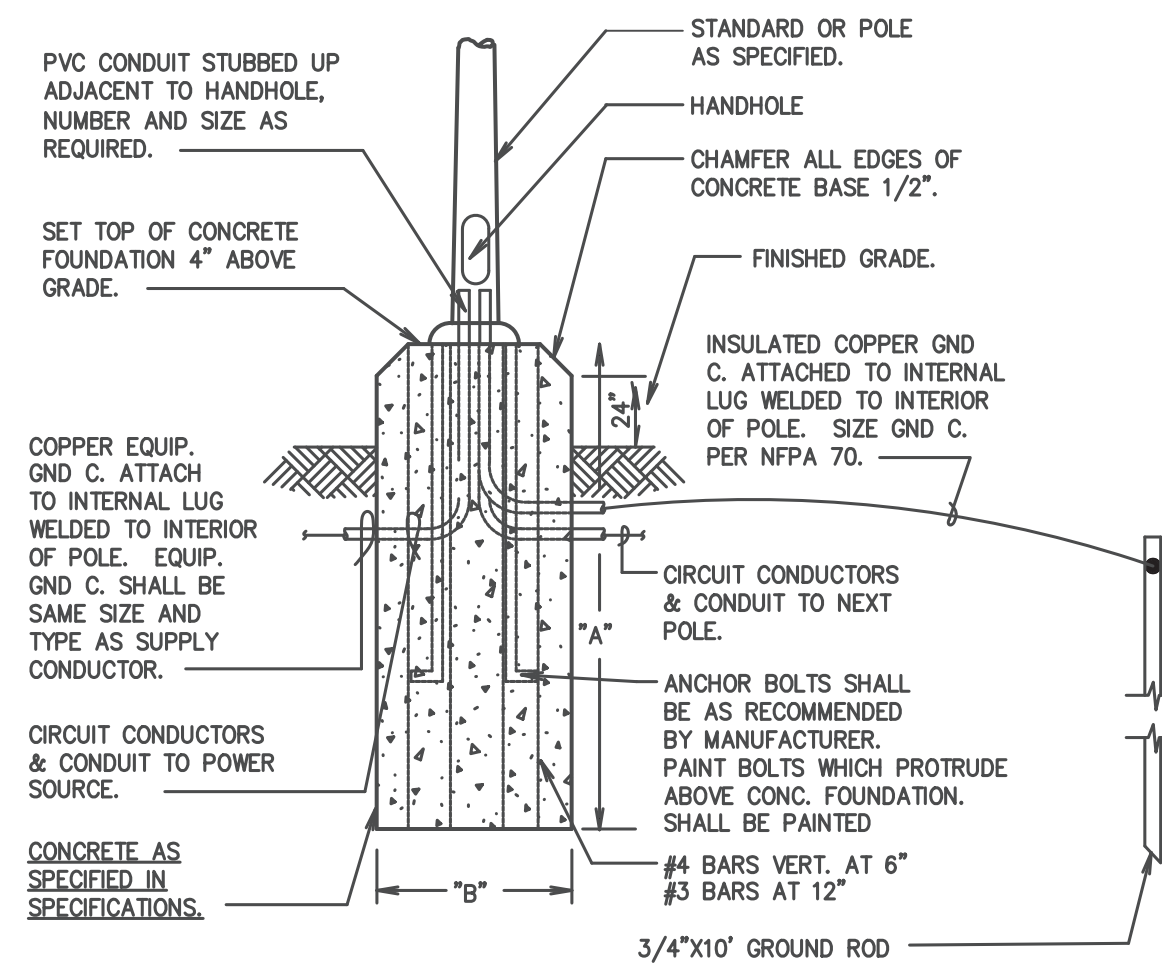
PROJECT NO: 2026-025
DRAWN BY: CSL/M/L
DATE: 03-24-26
REVISIONS:

SHEET NO:
SL1



GENERAL PHOTOMETRIC SCHEDULE	
AVERAGE FOOT-CANDLES	1.67
MAXIMUM FOOT-CANDLES	71.6
MINIMUM FOOT-CANDLES	0.0
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	18999.06
AVERAGE TO MINIMUM FC RATIO	443.80

1 SITE LIGHTING/PHOTOMETRIC PLAN
1"=30'-0"



LEGEND
GND C. - GROUNDING CONDUCTOR

POLE HT.	A	B
8' - 12'	36"	12"
13' - 19'	42"	16"
20' - 29'	72"	24"
30' - 39'	78"	30"

2 POLE BASE DETAIL
N.T.S.

LUMINAIRE SCHEDULE									
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1
A	●	(80) 80 WHITE LIGHT EMITTING DIODES (LEDs), BASE UP.	CAST BLACK PAINTED FINNED METAL HOUSING.	ELECTRONIC	POLE	U.S. ARCHITECTURAL LIGHTING, PAC24--PT2--PLED--IV--80LED--525mA--40K--HS	129.7	120V 1P 2W	20'-0" MOUNTING HEIGHT
C	●	(1) 80 WHITE LIGHT EMITTING DIODES (LEDs), BASE UP.	CAST BLACK PAINTED FINNED METAL HOUSING.	ELECTRONIC	POLE	U.S. ARCHITECTURAL LIGHTING, PAC24--PT2--PLED--AL--ASY--80LED--525mA--40K--HS	129.7	120V 1P 2W	20'-0" MOUNTING HEIGHT
WP-A	◦	(1) (1) 2700K CCT, 90 CRI LED	LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.	ELECTRONIC	WALL	COOPER LIGHTING SOLUTIONS - LUMIERE (FORMERLY EATON), 9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV	40.2	120V 1P 2W	7'-0" MOUNTING HEIGHT
WP-B	◻	(1) LED	LED WALL PACK	ELECTRONIC	WALL	EXO, PVL3--180L--60--4K	55.3	120V 1P 2W	PHOTO CONTROL - 12'-0" MOUNTING HEIGHT

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumiere Lanterra 9004

Wall Mount Cylinder Interior / Exterior Integrated LED

Typical Applications

- Hospitality • Commercial Landscape • Outdoor Area/Site • Residential • Architectural

Product Certification

eULus, UL, IP66, LM79, BAA, IESNA, DLC, Energy Star

Product Features

- Interactive Menu
 - Order Information page 2
 - Product Specifications page 3
 - Mounting Details page 4
 - Lumen Table page 6
 - Photometrics page 7
 - Integrated Sensor page 8

Top Product Features

- Uplight, downlight or combined up and downlight
- Up to 2500 delivered lumens per side and 110 LPW
- Field Interchangeable Spot, Medium, Flood and Wide optics
- Integrated LED source with 80, 90, and 97 CRI options available
- Premium machined aluminum construction with stainless steel hardware
- Line voltage input with ELV, Triac and 0-10V dimming standard
- Integral and remote driver mounting options

Dimensions
WSS model shown

9004-W1-BW	9004-W2-BW	9004-W1-FL	9004-W2-FL

COOPER Lighting Solutions

AREA & ROADWAY LIGHTING

Pacifica® - PT2 PLED

CONTEMPORARY, ROUND FORM POST TOP LUMINAIRE

Luminaire
All housing components are all heavy wall cast aluminum alloy (A356 alloy, 62.2% copper). Removable internal height provides direct mounting of the LED modules and thermal control for long life and efficiency. Optical cove through the aperture of housing top. Driver is accessed through filter cap of shul base. All hardware is stainless steel.

Post Top Mounting
Luminaire filter mounts over 2-7/8" O.D. x 3.00" feron. Stainless steel set screws provided for leveling and securing luminaire over feron.

PLED™ Optics
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED reflector. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the reflector directs the house side emitter output towards the steel side, maximizing visible light. Optional house side shields are available that cover each individual optic. Reflectors are injection molded H12 acrylic. Each LED reflector is sealed to the PCB over an emitter and all reflectors are retained by an aluminum frame. Any one panel, or group of panels in a luminaire, have the same optical pattern. LED reflectors produce standard area/area distributions. Panels are field replaceable and field rotatable in 90° increments. Quick-connects are provided above each panel for fast field replacement. All future optical options will provide a "0°" no uplight optical package and are dark sky friendly.

Ambience™ Low Luminance Lens
Optional Ambience Lens (AL) provides low luminance reduced glare distributions. Lens diffuses the PLED Optics and provides a more uniform luminance across the aperture reducing glare at all angles. Lens is provided with an aluminum frame and is sealed to the housing with high temp gasketing.

LED Emitters
LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturer's thermal max of 150 °C for long life. High lumen maintenance and color stability. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard Warm White (2700K & 3000K), Neutral White (4000K), and Cool White (5000K). All Standard LED's have a minimum of 70 CRI. Consult factory for other LED options. Lumen Maintenance of 193 at 100,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TBA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

LED Driver
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical array. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50/60Hz, 0 - 10V dimmable driver is standard. Driver has a minimum of 3kV internal surge protection. Luminaire supplied with a separate 200V surge protector for field installation.

Finish
Super 180C polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.

PROJECT NAME: _____
PROJECT TYPE: _____

PAC-PT2
(PAC24-PT2 shown)

Feature	A	B	C	D
PAC24-PT2	28" 711mm	24" 609mm	32" 813mm	17.5" 443mm
PAC18-PT2	22" 559mm	18" 457mm	25" 635mm	14" 354mm

2023087

U.S. Pole Company Inc. 140 West Avenue D, Hemet, CA 93881
An Employee-Owned Company | Phone (861) 233-2500 | www.uspole.com

PERIMALITER®

PGM3/PGL3 LED WALL PACK

FEATURES

- Available in two sizes and four outputs up to 7100 lumens
- A specially designed polycarbonate lens provides ultimate glare control which "softens" the light for no pollution and unprecedented visual comfort
- Wireless control, motion sensor and photocell control
- 10kA surge protection standard
- Dark bronze matte textured powder paint finish is standard, other finishes available
- PVL3 only available in dark bronze matte and white finishes

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

SPECIFICATIONS

CONSTRUCTION

- The die-cast aluminum housing provides 1mm mounting over recessed junction boxes
- 3 x 1/2" threaded conduit holes (top and sides) for surface conduit wiring or Photocell for dusk-to-dawn control
- Two door options available: Cast aluminum frame with prismatic borosilicate glass (PGM3), One piece, prismatic, vandal resistant polycarbonate cover (PVL3)
- Standard finish is dark bronze textured powder paint. The PGM3 version is available in alternate finishes of black, white, grey, platinum silver and custom colors

OPTICS

- 80 high powered LEDs in produce up to 7100 lumens in PGM3 and 6528 lumens in PVL3
- CCT - 3000K, 4000K, 5000K (70 CRI)

ELECTRICAL

- 120-277V universal voltage 50/60Hz, 0-10V dimmable
- Driver RoHS and IP66
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- 10kA surge protection (parallel). Automatically takes failure off-line when device is consumed

CONTROLS

- Photocell and occupancy sensor options available for complete on/off or programmable dimming control

CERTIFICATIONS

- Listed to UL1598 for use in wet locations
- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to <http://www.designlights.org> for the most up-to-date list.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	3516-7102
Wattage Range	275-544
Efficacy Range (LPW)	120-138
Life (Hours)	>60,000

currentlighting.com/EXO

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Rev: 10/20/2023

pgm3_pt2_led_wall_pack_PLED_2023

May 12, 2026

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ENSENOY MEDICAL AND RETAIL CENTER

CAMERON, NC

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PROJECT NO: 2026-025

DRAWN BY: CSJ/MIL

DATE: 03-24-26

REVISIONS:

SHEET NO:

SL2