



**Village Council
Agenda for Work Session Meeting of November 12, 2024
Assembly Hall
395 Magnolia Road, Pinehurst, NC 28374
Pinehurst, North Carolina
4:30 PM**

1. Call to Order
2. General Business
 - A. Discussion on Residents-Proposed Improvements to the Pinehurst Traffic Circle
 - B. Discussion on the Social District
 - C. Feedback on the Given Memorial Library Design
3. Other Business
4. Motion to Adjourn

Vision: The Village of Pinehurst is a charming, vibrant community which reflects our rich history and traditions.
Mission: Promote, enhance, and sustain the quality of life for residents, businesses, and visitors.
Values: Service, Initiative, Teamwork, and Improvement.



Discussion on Residents-Proposed Improvements to the Pinehurst Traffic Circle

ADDITIONAL AGENDA DETAILS:

FROM: Shannon Konstantinou, Village Clerk
CC: Village Council; Doug Willardson
DATE OF MEMO: 11/05/2024

MEMO DETAILS

ATTACHMENTS

1. Reduced_Traffic Circle Discussion Work Session 11-12-24 V4 - Read-Only



Alternative Traffic Circle Design Discussion

Alternative Traffic Circle Design Discussion

Objectives:

- Find traffic circle improvements that improve flow and safety while maintaining the special nature of the Circle and Midland Road
- Maintain to the extent possible circle character / trees and streetscape of the Midland Road iconic entry to Pinehurst
- Find solutions implementable in a reasonable timeframe and less expensive than wholesale rebuild / destruction of the circle
- Minimize above grade structures inconsistent with historic environment
- Minimize or require no additional property acquisition



Alternatives

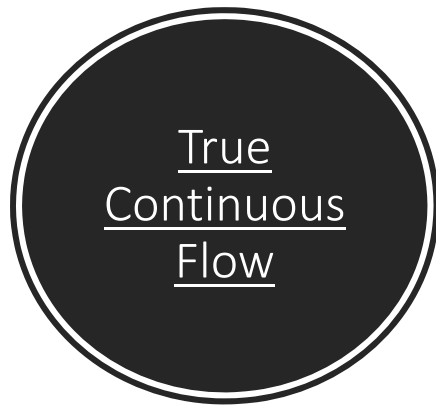
- True Continuous Flow
- Straight Through Express
- Mamuzic Express



True Continuous Flow

1. NO TRAFFIC LIGHTS
2. NO ADDITIONAL LAND REQUIRED
3. ALL MERGING IS:
 - OUTBOARD OF THE CIRCLE
 - PARALLEL LONG MERGES
 - ALL MERGES ARE LEFT
 - 3 LANES INTO 2 LANES (SOLID RED ARROWS)
4. ONLY 1 OF 4 POSSIBLE DESTINATIONS REQUIRES A LANE CHANGE (OUTLINE RED ARROWS)





Traffic Routes

(15/501 HEADED NORTH)

FOR EACH OF THE FIVE ENTRANCES TO THE CIRCLE, THERE ARE FOUR POSSIBLE EXITS.

THE FIRST EXIT REQUIRES A PARALLEL MERGE UPON EXITING.



THE SECOND EXIT IS **FREE** OF MERGES OR LANE CHANGES.



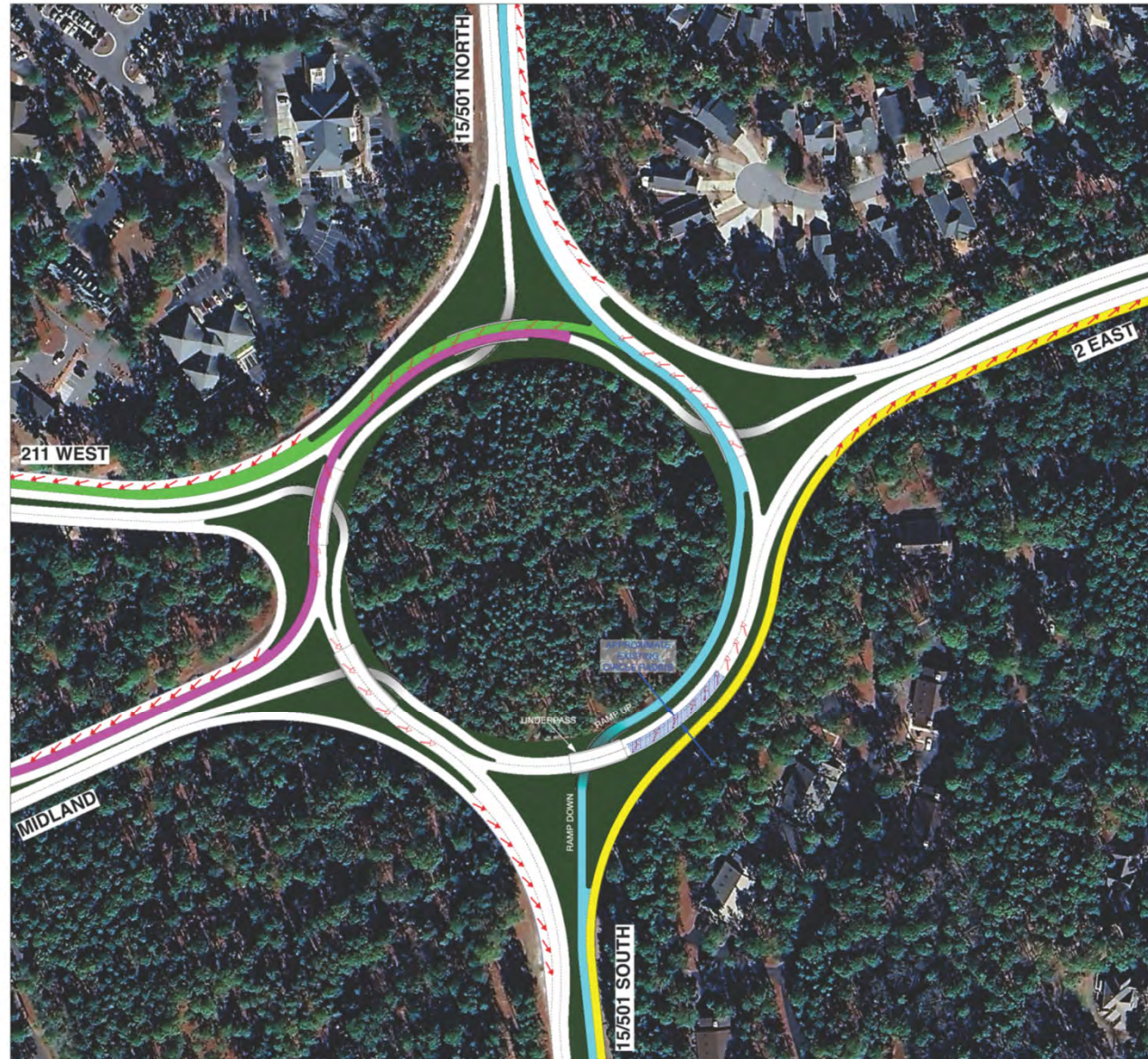
THE THIRD EXIT IS **FREE** OF MERGES OR LANE CHANGES.

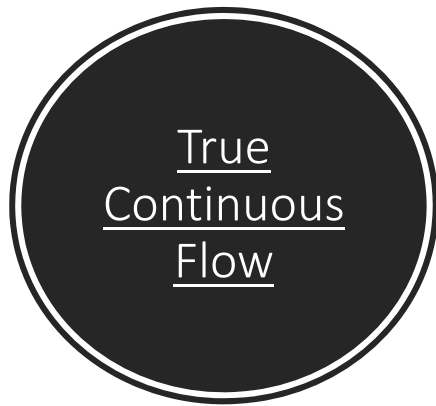


THE FOURTH EXIT REQUIRES A LANE CHANGE.



EACH ENTRY NOT TAKING THE RIGHT TURN EXIT, STARTS WITH A TRAFFIC SLOWING UNDERPASS FROM THE LEFT LANE. THESE CONDITIONS ARE THE SAME FOR ALL FIVE ENTRANCES.





ENTRANCE LEG TO EXIT LEG

FOR EACH OF THE FIVE ENTRANCES TO THE CIRCLE, THERE ARE FOUR POSSIBLE EXITS.

THE FIRST EXIT REQUIRES A PARALLEL MERGE UPON EXITING.



THE SECOND EXIT IS **FREE** OF MERGES OR LANE CHANGES.



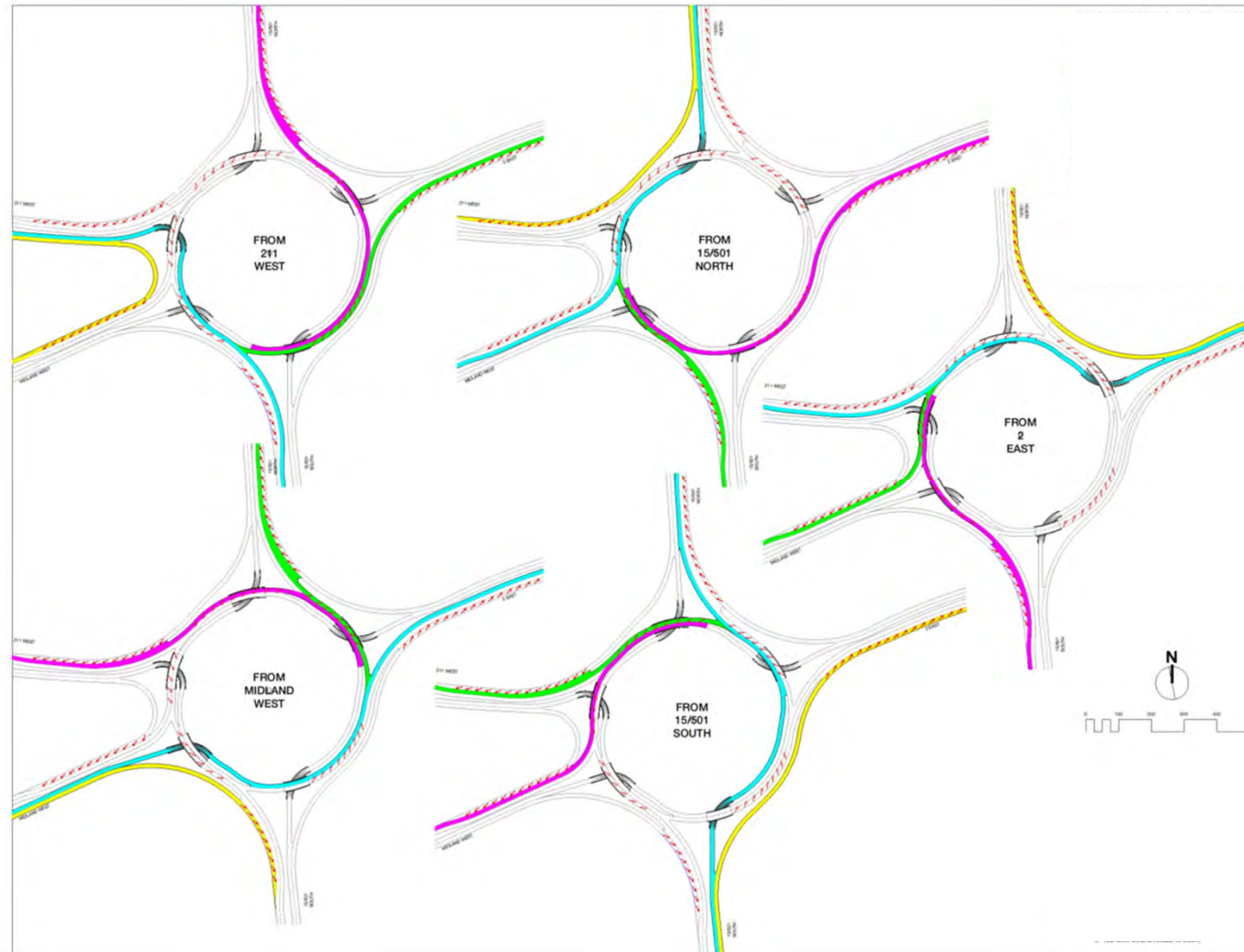
THE THIRD EXIT IS **FREE** OF MERGES OR LANE CHANGES.

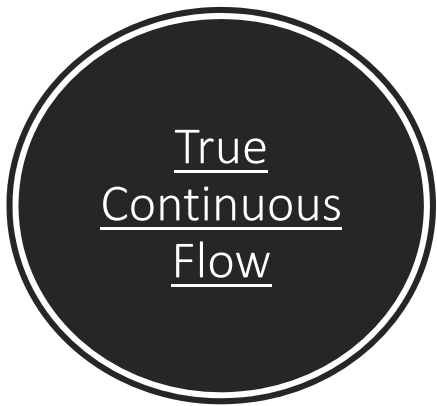


THE FOURTH EXIT REQUIRES A LANE CHANGE.

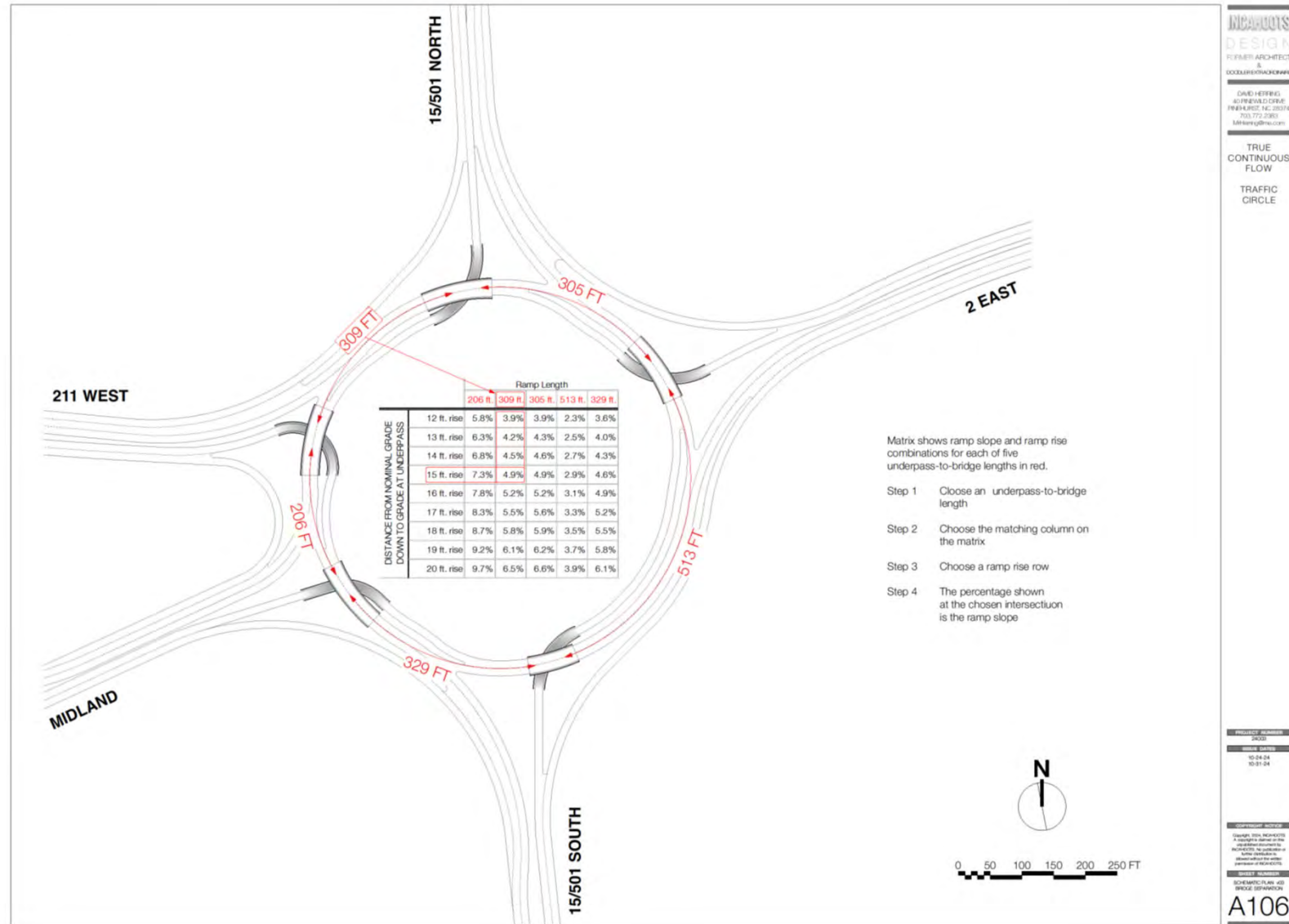


EACH ENTRY NOT TAKING THE RIGHT TURN EXIT, STARTS WITH A TRAFFIC SLOWING UNDERPASS FROM THE LEFT LANE. THESE CONDITIONS ARE THE SAME FOR ALL FIVE ENTRANCES.



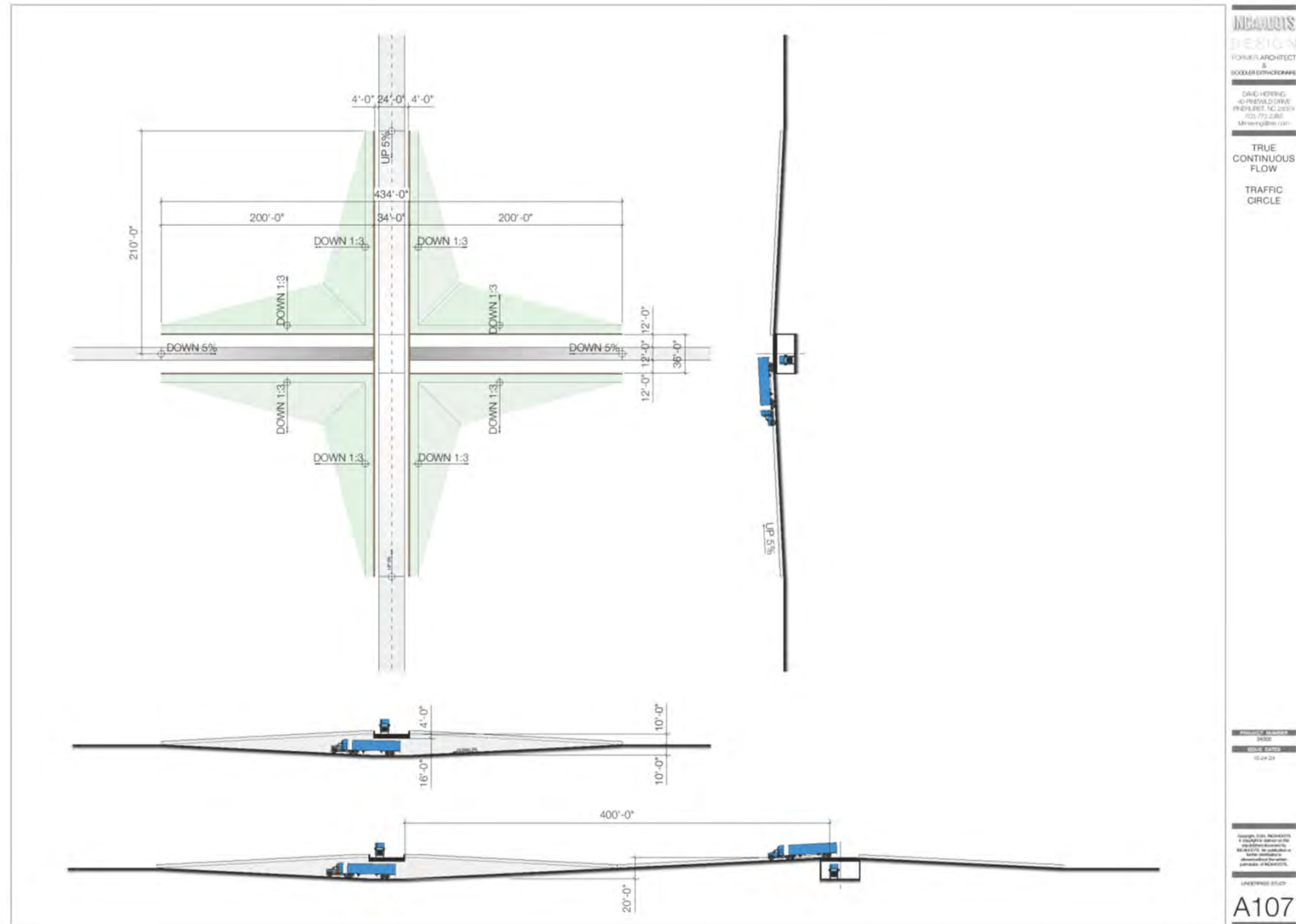


BRIDGE/SLOPE SEPARATION ANALYSIS



True
Continuous
Flow

SLOPE / BRIDGE CLEARANCE ANALYSIS



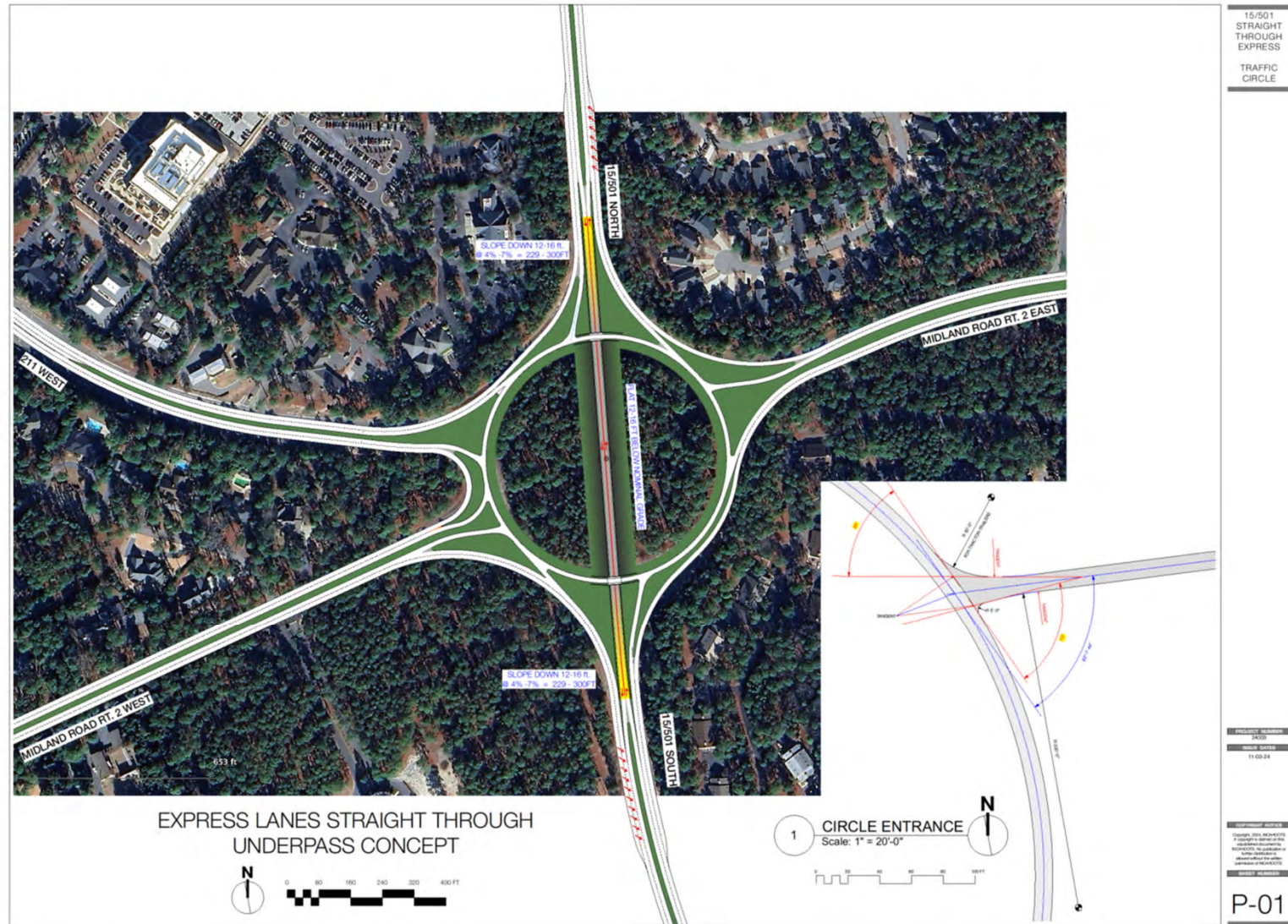
Straight Through Express

15/501 through traffic uses Underpass(s) bypassing circle

No merges for express lanes

Serves as dedicated express lanes for Rte 15/501 north And south traffic

Addresses 2nd highest circle traffic entry / exit volume

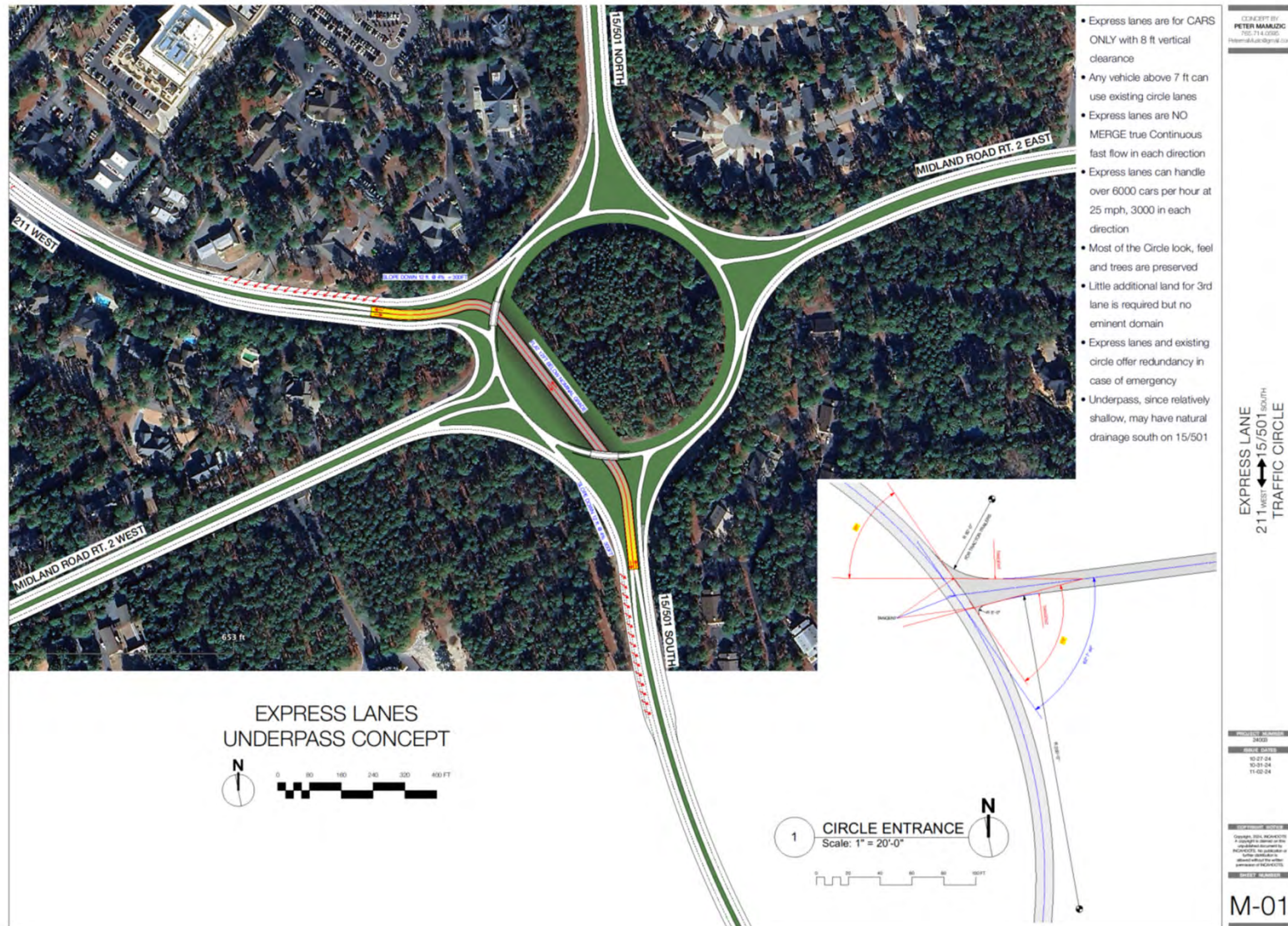




EXPRESS LANE

UNDERPASS CONCEPT

Route 211 to/from
15/501 SOUTH





EXPRESS LANE UNDERPASS CONCEPT Route 211 to/from 15/501 SOUTH

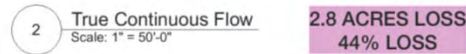


- Express lanes are for CARS ONLY with 8 ft vertical clearance
- Any vehicle above 7 ft can use existing circle lanes
- Express lanes are NO MERGE true Continuous flow in each direction
- Most of the circle look, feel and 75% of trees are preserved
- Little additional land for 3rd lane is required but no eminent domain condemnation
- Express lanes and existing circle offer redundancy in case of emergency
- Underpass, since relatively shallow, may have natural drainage south on 15/501
- Some express lanes construction can be done while circle is operating
- 2050 peak load is 6,000 cars/hr. through all 5 tributaries to circle
- 2 Express lane capacities are over 6,000 cars/hr. at 25 mph, 3,000 in each direction (157,000 cars / day)
- 15/501 south to/from 211 west load is 66,000 cars/day, curved express lane relieves 49% of total circle load
- 15/501 north to/from 15/501 south load is 54,000 cars/day, straight express lane capacity relieves 43% of total circle load
- AI controlled traffic lights can be used for existing circle metered flow optimization

Circle
Tree
Impact

**INCANOTS
DESIGN**
LANDSCAPE ARCHITECT
&
HEDGECROFT EXTERIOR
DAVID HERFING
40 PINEHILL DRIVE
WEHURST, NC 28374
703.772.2580
MH-herfing@msi.com

**TREE LOSS
ANALYSIS**



PROJECT NUMBER	24022
ISSUE DATES	11-04-24

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Alternative Traffic Circle Design Discussion

Factors Considered

- Traffic volume between legs
- Merges (number and left vs right, inside circle or external)
- Underpass / bridge clearances
- Road slope / road distance required for bridge / underpass
- Underpass walls (Sloped vs Retaining Walls)
- Travel lane separations
- Separating vehicles by type into different travel lanes
- Road width / shoulders required
- Road turn radius
- Alternative routing potential (road closure / emergency vehicles)
- Impact on neighboring properties
- Circle approach angles (optimum for reduced accidents / safe merge)
- Cost / time to build
- Lifetime of improvements

A large orange shape on the left side of the slide, consisting of a rectangle on the left and a quarter-circle on the right.

Alternative Traffic Circle Design Discussion

Concerns / Discussion

Next Steps





Discussion on the Social District ADDITIONAL AGENDA DETAILS:

FROM: Shannon Konstantinou, Village Clerk
CC: Village Council;
DATE OF MEMO: 10/30/2024

MEMO DETAILS

In August, staff informed the Council that we had received positive feedback regarding the open alcohol container "social district" during the U.S. Open in June. Local business owners expressed interest in expanding the social district to include additional events and times. We presented the following options for the Council's consideration, and Council directed staff to extend the social district for special events through October and then revisit the topic to evaluate whether or not to continue.

Participation from the business community was lower than anticipated. To gauge their preferences and experiences, staff surveyed local businesses. The feedback indicates that the social district is overall seen as positive. Please see the attached survey results. Staff has also received some comments from residents suggesting that it does not align with the atmosphere or character of Pinehurst.

1. **Permanent Social District:** This option would be the easiest to administer, with permanent signage and eliminating confusion about when the social district is active. However, while there were no issues during the U.S. Open, community support for this may not be fully established yet.
2. **Weekends, Holidays, and Special Events:** Instead of a permanent social district, this option suggests allowing open containers each weekend (Friday through Sunday), on specified holidays, and during certain special events (listed separately).
 - **Holidays:** Martin Luther King Jr. Day, Presidents Day, Memorial Day, Independence Day*, Labor Day, Columbus Day, Veterans Day*, Thanksgiving Day*, Day before Christmas Eve through New Year. (*Includes the preceding day if not already on a weekend.)
3. **Special Events Only:** This option restricts the social district to specific special events scheduled through the end of the year. Reevaluation could occur annually.

In addition, the Village provided social district stickers for cups during the U.S. Open. Going forward, staff will either provide graphics for direct printing or guide license holders on how to order stickers independently.

ATTACHMENTS

1. Social District Survey Results

First Name	Last Name	Business Name	Email	Did you participate in the social district?	How satisfied are you with your experience in the Social District? (scale 1 to 5)	Has your participation in the Social District positively impacted your business?	How likely are you to continue participating in the Social District if continued? (scale 1 to 5)	What challenges, if any, have you faced while participating in the Social District?	What improvements or changes would you like to see in the Social District?	Please share any additional comments or suggestions regarding the Social District.
				Yes, as a retail/other business		1 Yes		1 Pretty seamless so far.	We would not be opposed if the social district was designated everyday and not just for special events.	
Courtney	Kilpatrick	Courtney's Shoes	courtneysshoe@courtneysshoes.com	Yes, as a retail/other business		5 Yes		5		
Debbie	Davis	Cooper & Bailey's	info@cooperandbaileys.com	Yes, as a retail/other business		5 Yes		5 None		
				Yes, as a retail/other business		5		I have not seen positive nor negative impact from participating in the Social District. It's likely positive for other businesses, especially F&B, and certainly for patrons, so I'm happy to continue supporting it!	5 Thanks for all your hard work!	NA
				Yes, as an ABC licensed establishment		3 No		Need more advertising and marketing.	3	More available dates!
Cara	Mathis	Given Tufts Bookshop	hello@giventuftsfoundation.com	No, as a retail/other business		5 Yes		5		Keep it up! :)
				Yes, as a retail/other business		4 Yes		4 Parking	More/better entertainment	The district created a very jovial and friendly environment amongst the participants.
Bob	Barmore	Coldwell Banker	rbarmore@gmail.com	Yes, as an ABC licensed establishment		4 Yes		5		Good fun was had by all.
Joan	Tishman	Veteran Golfers Association	info@vgagolf.org	Yes, as a retail/other business		4 Yes		5		
Deb	Pennucci	CoolSweats	pinehurstcoolsweats@gmail.com	Yes, as a retail/other business		3 No		No challenges however it it helps other business that's great	3	



Feedback on the Given Memorial Library Design ADDITIONAL AGENDA DETAILS:

FROM: Doug Willardson, Village Manager
CC: Village Council;
DATE OF MEMO: 11/05/2024

MEMO DETAILS

Please find attached the current status of the construction drawings for the library. A few important updates: The architects are currently waiting for the civil engineers to revise the front driveway design to reflect a drop-off area instead of angled parking spaces. Additionally, two requested changes—the addition of a handicapped ramp at the rear entrance and handicapped parking along the driveway with a ramp to the front door—could not be included. The steep slope of the lot prevents the ramps from meeting ADA specifications.

The next steps include a review by the Technical Review Committee, followed by further development of the specifications. We expect the full bid package to be ready for release in January 2025. Please note, projects bid during the holiday season typically receive less interest and can result in less competitive pricing.

ATTACHMENTS

1. 22038 Pinehurst_Given Memorial Library - COMBINED 2024-1107 update

NEW CONSTRUCTION FOR
GIVEN MEMORIAL LIBRARY
MAGNOLIA ROAD
PINEHURST, NC



ABBREVIATIONS

AT ACC ACOUS ACT ACW AD ADJ AE AFF AFL AHU ALUM ANOD ANSI ATTEN AWP	ACCENT COLOR ACOUSTIC ACOUSTICAL CEILING TILE ACOUSTICAL WALL PANELS AREA DRAIN ADJUSTABLE APPROVED EQUAL ABOVE FINISH FLOOR ATHLETIC FLOORING AIR HANDLING UNIT ALUMINUM ANODIZED AMERICAN NATIONAL STANDARDS INSTITUTE ATTENUATION ACRYLIC WALL PANELS	ELEV EN EPT EPOXY EQ ES EST EXP EXT EW EWC	ELEVATION ENAMEL HIGH PERFORMANCE EPOXY PAINT EQUAL EXPOSED STRUCTURE EXISTING EXPOSED CEILING EXTERIOR EACH WAY ELECTRIC WATER COOLER	MTL MWM MWT N/A NIC NOM	METAL METAL WALK-OFF MAT MARBLE WALL TILE NOT APPLICABLE NOT IN CONTRACT NORMAL	OC OD OF OFO OFI OPP OSC OZ	ON CENTER OUTSIDE DIAMETER OWNER FURNISHED CONTRACTOR INSTALLED OWNER INSTALLED OPPOSITE OVERFLOW SCUPPER OUNCE	P PC PERF PFT PIV PL P-LAM P-LAM WD WOOD DOORS	PAINT POLISHED CONCRETE PERFORATED PORCELAIN FLOOR TILE POST INDICATOR VALVE PLATE PLASTIC LAMINATE PLASTIC LAMINATE PLYWOOD PAINT POLYETHYLENE POWER POLE PAIR PORCELAIN TILE BASE PAINTED PLASTIC TOILET PARTITIONS PORCELAIN WALL TILE POLYVINYL CHLORIDE	SSG SSM ST STAR STD SUSP	STRUCTURAL SILICON GLAZING SOLID SURFACE STEEL STAIR TREADS AND RISERS STANDARD SUSPENDED
BBT BF BFC CONC BL BLDG BLKG BOT BPG	BIODEGRADED TILE BLOCK FILL BROOMED FINISHED CONCRETE BLINDS BUILDING BLOCKING BOTTOM BULLET PROOF GLASS	FC FD FE FEG FF FH FLU FOF FOM FT FTG FV	FIRE CODE FLOOR DRAIN FIRE EXTINGUISHER SURFACE MOUNTED FIRE EXTINGUISHER SEMI-RECESSED FINISH FLOOR FIRE HYDRANT FLOURESCENT FACE OF FRAME FACE OF MASONRY FLOOR TILE FOOTING FLOOR VENT	GA GALV GC GCT GEN GFT GL GMT GT GWB GYP	GAGE GALVANIZED GENERAL CONTRACTOR GRANITE COUNTERTOP GENERATOR GRANITE FLOOR TILE GLASS GLASS MOSAIC TILE GROUT GYPSUM WALL BOARD GYPSUM BOARD	T&G TB TC TCA TELE TEMP TEXT TFT	TONGUE AND GROOVE TILE BASE TERRAZZO TILE COUNCIL OF AMERICA TELEPHONE TEMPERED TEXTURED TERRAZZO FLOOR TILE	UL TOS TP TS TV TVB TYP	UNDERWRITERS LABORATORY UTILITY LIGHTS UNLESS NOTED OTHERWISE VINYL ACOUSTICAL TILE VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD VINYL WALL COVERING	W WC WD WF WT WWF WWM	WITH WATER CLOSET WOOD WOOD FLOORING WALL TILE - SEE ELEVATION WELDED WIRE FABRIC WELDED WIRE MESH
CB CEM CF CFT CG CI CH CJ CL CLG CLR CMU CO COL CONC CONSTR CONTR CORR CPT CPTT CRC CRF CS CSC CTB CWT	CATCH BASIN CEMENTIOUS SIDING CORK FLOORING GENERATOR FLOOR TILE CURVED CEILING GRID CAST IRON CURB INLET CONTROL JOINT CENTERLINE CEILING CLEAR CONCRETE MASONRY UNIT CLEAN OUT COLUMN CONCRETE CONSTRUCTION CONTRACTOR CORRUGATED CARPET CARPET TILE COLD ROLLED CHANNEL CORK RUBBER FLOORING COUNTERSUNK CONTRACTOR SUPPLIED CONTRACTOR INSTALLED CERAMIC TILE BASE CURTAIN WALL CERAMIC WALL TILE	HB HC HDC HDWD HM HORZ HR	HOSE BIB HOLLOW CORE HANDICAP HARDWOOD HOLLOW METAL HORIZONTAL HOUR	ID IMP INST INSUL INT INV	INSIDE DIAMETER INSULATED METAL PANEL INSTALLATION INSULATION INTERIOR INVERT	R R&S RB RBT RCP RDL REC REC REQ RES RM RO ROW RSF RTF	RADIUS ROD AND SHELF RESILIENT BASE RUBBER TILE RUBBER TILE ROOF DRAIN ROOF DRAIN LEADER RECEPTACLE RECYCLED FLOORING REQUIRED RESILIENT RUBBER MAT ROUGH OPENING RIGHT OF WAY RESINOUS FLOORING RESILIENT TILE FLOORING	SAT TREATMENT SEALED CONCRETE SCHEDULE SCHEDULE SOLID CORE WOOD STATIC DISSIPATIVE TILE STOREFRONT SHEATHING SHEATHING SIMILAR SPACES SQUARE SQUARE FEET SLIP RESISTANT TILE STAINLESS STEEL STAINED SEALED CONCRETE			
EDG EES EFC EFS EPI EJ	EDGE BANDING EMERGENCY EYE WASH AND SHOWER EPOXY FLOOR COATING EXTERIOR INSULATION FINISH SYSTEM EXISTING IRON PIPE EXPANSION JOINT	L LFT LP LST LVS LVT	LONG LFTINOLEUM FLOOR TILE LIGHT POLE LFTINOLEUM SHEET FLOORING LEAVES (DOOR) LUXURY VINYL TILE	MATL MAX MB MBL MC MCT MECH MFR MFT MIN MO MTB MTD	MATERIAL MAXIMUM MASONRY - BRICK MARBLE METAL CANOPY METAL CEILING TILE MECHANICAL MANUFACTURER MARBLE FLOOR TILE MINIMUM MASONRY OPENING MARBLE TILE BASE MOUNTED						

SYMBOL LEGEND

DRAWING NO.	DRAWING NAME
1	View Name
1/8" = 1'-0"	SCALE
SHEET NO.	BUILDING SECTION MARK
2	WALL SECTION MARK
2	CALLOUT DETAIL
2	EXTERIOR ELEVATION MARK
2	INTERIOR ELEVATION MARK
15' - 4"	CONTROL / ELEVATION MARK
DOOR MARK	WINDOW MARK
CASEWORK MARK	WALL MARK
ACCESSORIES MARK	DEMO MARK
REVISION AREA / NUMBER	ROOM MARK
CARD READER	

SHEET NAMING LEGEND

SECTION	DISCIPLINE	PAGE NUMBER
0 GENERAL	G COVER	
1 PLANS	G CODE SUMMARY	
2 EXTERIOR ELEVATIONS	G LIFE SAFETY	
3 BUILDING / WALL SECTIONS	G CIVIL	
4 VERTICAL CIRCULATION	L LANDSCAPE	
5 DETAILS	S STRUCTURAL	
6 WINDOW & DOOR SCHEDULES	D DEMOLITION	
7 INTERIOR ELEV / CASEWORK	A ARCHITECTURAL	
	Q FIRE PROTECTION	
	P PLUMBING	
	M MECHANICAL	
	E ELECTRICAL	
	FA FIRE ALARM	
	X MISCELLANEOUS	

CONSULTANTS

CIVIL ENGINEER:
STOCKS ENGINEERING
801 EAST WASHINGTON STREET, PO BOX 1108 NASHVILLE, NC 27856 PHONE: 252-459-8196
STRUCTURAL ENGINEER:
STEWART
223 S. WEST STREET, SUITE 1100 RALEIGH, NC 27603 PHONE: 919-380-8750
PLUMBING, MECHANICAL, & ELECTRICAL ENGINEER:
ATLANTEC ENGINEERS, PA
3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 PHONE: 919-571-1111

INDEX OF DRAWINGS

05 ARCHITECTURAL
A1.1 FLOOR PLAN
A1.2 ROOF PLAN
A1.3 REFLECTED CEILING PLAN - FIRST FLOOR
A1.4 FINISH PLAN - FIRST FLOOR
A1.5 ENLARGED PLANS
A2.0 BUILDING ELEVATIONS
A2.1 BUILDING ELEVATIONS
A3.1 BUILDING SECTIONS
A3.2 WALL SECTIONS
A5.1 DETAILS
A6.1 DOOR SCHEDULE & DETAILS
A6.2 WINDOW SCHEDULE & DETAILS
A7.1 CASEWORK ELEVATIONS
A7.2 CASEWORK ELEVATIONS

2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: GIVEN MEMORIAL LIBRARY
Address: MAGNOLIA DRIVE, PINEHURST, NC Zip Code 28374
Owner/Authorized Agent: DOUG WILLARDSON
Phone # 910-295-1900 E-Mail DWILLARDSON@VOPNC.ORG
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City PINEHURST ☐ County ☐ State

CONTACT: JASON GABLE, AIA - OAKLEY COLLIER ARCHITECTS | JGABLE@OAKLEYCOLLIER.COM, 919.696.9591 m.
DESIGNER FIRM NAME LICENSE# TELEPHONE# E-MAIL
Architectural OAKLEY COLLIER ARCHITECTS TIM OAKLEY 5967 252-937-2500 TOAKLEY@OAKLEYCOLLIER.COM
Civil STOCKS ENGINEERING J. MICHAEL STOCKS 19843 252-459-8196 MSTOCKS@STOCKSENGINEERING.COM
Electrical ATLANTEC ENGINEERING DAVID WHITNEY 17382 919-855-2030 DAVID@ATLANTECENGINEERS.COM
Fire Alarm ATLANTEC ENGINEERING DAVID WHITNEY 17382 919-855-2030 DAVID@ATLANTECENGINEERS.COM
Plumbing ATLANTEC ENGINEERING HARRISON HOLT 49754 919-855-2032 HARRISON@ATLANTECENGINEERS.COM
Mechanical ATLANTEC ENGINEERING PATRICK MCCABE 51195 919-855-2024 PATRICK@ATLANTECENGINEERS.COM
Sprinkler-Standpipe
Structural STEWART ENGINEERING BRYAN COVINGTON 45141 919-866-4754 BCOVINGTON@STEWARTINC.COM
Retaining Walls >5' High
Other
("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

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

2018 NC EXISTING BUILDING CODE: Existing ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) N/A CURRENT OCCUPANCY(S) (Ch.3): N/A
RENOVATED: (date) N/A PROPOSED OCCUPANCY(S) (Ch.3): A3
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
☐ 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 (SQ FT)	ADDITION (SQ FT)	SUB-TOTAL
6th Floor	N/A	N/A	N/A
5th Floor	N/A	N/A	N/A
4th Floor	N/A	N/A	N/A
3rd Floor	N/A	N/A	N/A
2nd Floor	N/A	N/A	N/A
1st Floor	9,303	N/A	9,303
Basement	N/A	N/A	N/A
TOTAL	9,303	N/A	9,303

ALLOWABLE AREA
Primary Occupancy Classification(s):
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 Condition ☐ I 2
☐ I-2 Condition ☐ I 2
☐ I-3 Condition ☐ I 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions: (Chapter 5 - List Code Sections): N/A
Mixed Occupancy: ☒ No ☐ Yes Separation: N/A Hr. Exception: N/A
☐ 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 (508.4) - 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.

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

$$\frac{\cdot}{\cdot} + \frac{\cdot}{\cdot} + \dots = \cdot \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ^a AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³
1	A3	9,303	38,000	N/A	38,000
2					
3					
4					
5					
6					

- Frontage area increases from Section 506.3 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = N/A (F)
 - Total Building Perimeter = N/A (P)
 - Ratio (F/P) = N/A (F/P)
 - W = Minimum width of public way = N/A (W)
 - Percent of frontage increase $I_f = 100[(F/P - 0.25) \times W/30] = N/A$ (%)
- 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 Table 406.5.4.
- Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) 2	75	40	N/A
Building Height in Stories (Table 504.4) 3	3	1	N/A

- 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 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						
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQD	RATING PROVIDED (W/ REDUCTION)	DETAIL# AND SHEET#	DESIGN# FOR RATED ASSEMBLY	SHEET# FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses	>30	0	0	N/A	N/A	N/A
Bearing Walls						
Exterior						
North	N/A	N/A	N/A	N/A	N/A	N/A
East	N/A	N/A	N/A	N/A	N/A	N/A
West	N/A	N/A	N/A	N/A	N/A	N/A
South	N/A	N/A	N/A	N/A	N/A	N/A
Interior	N/A	N/A	N/A	N/A	N/A	N/A
Nonbearing Walls and Partitions						
Exterior walls						
North	>30	0	0	N/A	N/A	N/A
East	>30	0	0	N/A	N/A	N/A
West	>30	0	0	N/A	N/A	N/A
South	>30	0	0	N/A	N/A	N/A
Interior walls and partitions	N/A	0	0	N/A	N/A	N/A
Floor Construction Including supporting beams and joists	0	0	0	N/A	N/A	N/A
Floor Ceiling Assembly	0	0	0	N/A	N/A	N/A
Columns Supporting Floors	N/A	N/A	N/A	N/A	N/A	N/A
Roof Construction, including supporting beams and joists	0	0	0	N/A	N/A	N/A
Roof Ceiling Assembly	0	0	0	N/A	N/A	N/A
Columns Supporting Roof	0	0	0	N/A	N/A	N/A
Shaft Enclosures - Exit	N/A	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Other	N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation	N/A	N/A	N/A	N/A	N/A	N/A
Occupancy/Fire Barrier Separation	N/A	N/A	N/A	N/A	N/A	N/A
Party/Fire Wall Separation	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Partition	N/A	N/A	N/A	N/A	N/A	N/A
Tenant/Dwelling Unit/Sleeping Unit Separation	N/A	N/A	N/A	N/A	N/A	N/A
Incidental Use Separation	N/A	N/A	N/A	N/A	N/A	N/A

* 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 PLANS (%)
30 OR GREATER	UP, NS	NO LIMIT	N/A
-	-	-	-
-	-	-	-

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

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: LSI
☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit access travel distances (1017)
☐ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
☒ Clear exit 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 the 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 footage of each fire area (202)
☐ The square footage 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 UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED
N/A	N/A	N/A	N/A	N/A	N/A	N/A

ACCESSIBLE PARKING					
(SECTION 1108)					
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED		
			REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE
	-	-	-	-	-
TOTAL	-	-	-	-	-

PLUMBING FIXTURE REQUIREMENTS									
(TABLE 2902.1)									
USE	EXIST/STG	WATER CLOSETS		URINALS		LAVATORIES		SHOWERS	
		MALE	FEMALE	UNISEX	UNISEX	MALE	FEMALE	UNISEX	UNISEX
NEW	3	4	N/A	1	3	5	N/A	N/A	1
REQD	4	4	N/A	N/A	3	3	N/A	N/A	0

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

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 envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)
Exempt 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 here)

THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
Skylights in each assembly:
U-Value of skylight: N/A
Total square footage of skylights in each assembly: N/A
Exterior Walls (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
Openings (windows or doors with glazing)
U-Value of assembly: N/A
Solar heat gain coefficient: -
Projection factor: N/A
Door R-Values: N/A
Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of total assembly: N/A
Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of total assembly: N/A
Floors slab on grade
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
Horizontal/vertical requirement: N/A
Slab heated: N/A

STRUCTURAL DESIGN
DESIGN LOADS:
Importance Factors: Snow (I_s) N/A
Seismic (I_e) N/A
Live Loads: Roof N/A psf
Mezzanine N/A psf
Floor N/A psf
Ground Snow Load: N/A psf
Wind Load: Ultimate Wind Speed N/A mph (ASCE-7)
Exposure Category N/A
SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1004.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration S_s N/A % S₁ N/A %
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data
Bearing Wall ☐ Dual w/Special Moment Frame
Building Frame ☐ Dual w/Intermediate R/C or Special Steel
Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No
LATERAL DESIGN CONTROL: ☐ Earthquake ☐ Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) N/A psf
Presumptive Bearing capacity N/A psf
Pile size, type, and capacity N/A

MECHANICAL DESIGN
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone
winter dry bulb: -
summer dry bulb: -
Interior design conditions
winter dry bulb: -
summer dry bulb: -
relative humidity: -
Building heating load: -
Building cooling load: -
Mechanical Spacing Conditioning System
Unitary
description of unit: -
heating efficiency: -
cooling efficiency: -
size of unit: -
Boiler
Size category, if oversized, state reason: -
chiller
Size category, if oversized, state reason: -
List equipment efficiencies: -

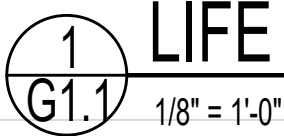
ELECTRICAL DESIGN
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance
Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified (for whole building or space by space)
total exterior wattage specified (for whole building or space by space)
Additional Efficiency Package Options
(When using the 2018 ASCE, not required for ASHRAE 90.1)
☐ C406.4 More Efficient HVAC Equipment Performance
☐ C406.5 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating



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Date Project No.
11/15/2024 22038
Drawn By RL Sheet No.
Checked By JG G0.2
Sheet Title
BUILDING CODE SUMMARY



SPACE	SF / AREA PER OCCUPANT (PER TABLE 1004.1.2)	LOAD
BUSINESS	22,983 SF / 100 GROSS	225
ASSEMBLY: A3	13,410 SF / 15 NET	885
STORAGE	3,288 SF / 300 GROSS	11
LAB	12,894 SF / 50 NET	254
CLASSROOM	6,861 SF / 20 NET	340
TOTAL	59,436 SF GROSS	1,711

The diagram illustrates the formula for calculating occupancy load. It features a table representing the room's characteristics and a large arrow representing the final calculation.

Table: Room Characteristics

X	XXX
XX	XX

Labels for Table:

- OCCUPANCY (points to 'X')
- SQUARE FEET OF ROOM (points to 'XXX')
- OCCUPANT LOAD (points to 'XX')
- OCCUPANT LOAD FACTOR (points to 'XX')

Diagram: Occupancy Load Calculation

A large arrow points from the table to the right, representing the calculation. The arrow contains the following text:

- XXX' DOOR / 0.2' (points to the arrow's body)
- EGRESS WIDTH (points to the arrow's body)
- XXX OCC. ALLOWED (points to the arrow's body)
- EGRESS CAPACITY ALLOWED (points to the arrow's body)
- XXX ACTUAL (points to the arrow's body)
- ANTICIPATED EGRESS LOAD (points to the arrow's body)

- NOTES:
1. SEE ELECTRICAL PLANS FOR COMPLETE DESCRIPTION OF DEVICES AND ADDITIONAL DETAILS INCLUDING MOUNTING AND PLACEMENT.

FRONT APPROACH - PULL SIDE 60" MIN 18" MIN	FRONT APPROACH - PUSH SIDE 12" MIN * 48" MIN * IF BOTH CLOSER AND LATCH ARE PROVIDED
HINGE APPROACH - PULL SIDE 68" MIN 36" MIN	HINGE APPROACH - PUSH SIDE 54" MIN 42" MIN
HINGE APPROACH - PUSH SIDE 12" MIN * 22" MIN 42" MIN 48" MIN * IF BOTH CLOSER AND LATCH ARE PROVIDED	LATCH APPROACH - PULL SIDE 12" MIN * 24" MIN 48" MIN 54" MIN * * IF CLOSER IS PROVIDED
LATCH APPROACH - PUSH SIDE 24" MIN 42" MIN 48" MIN * IF CLOSER IS PROVIDED	

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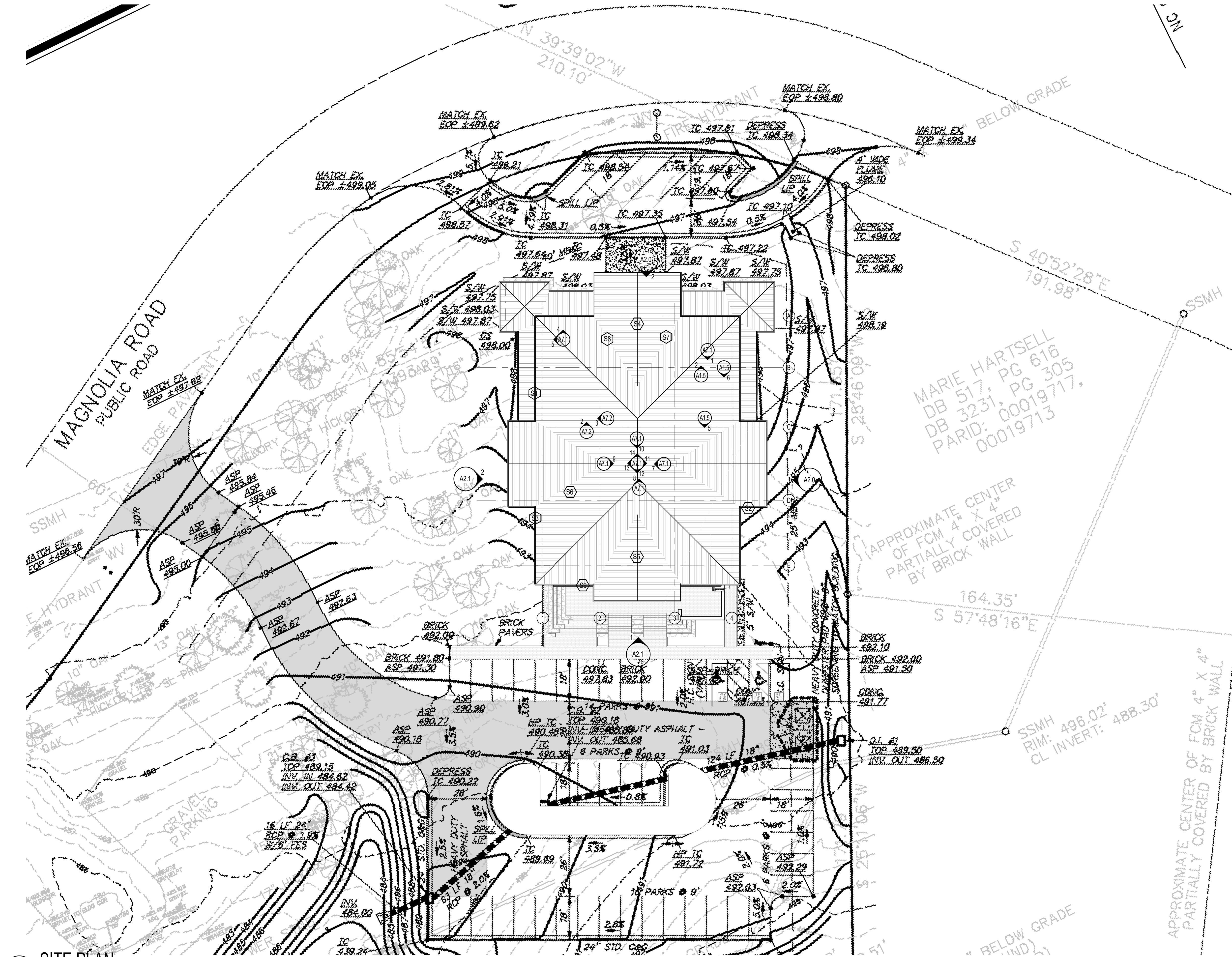
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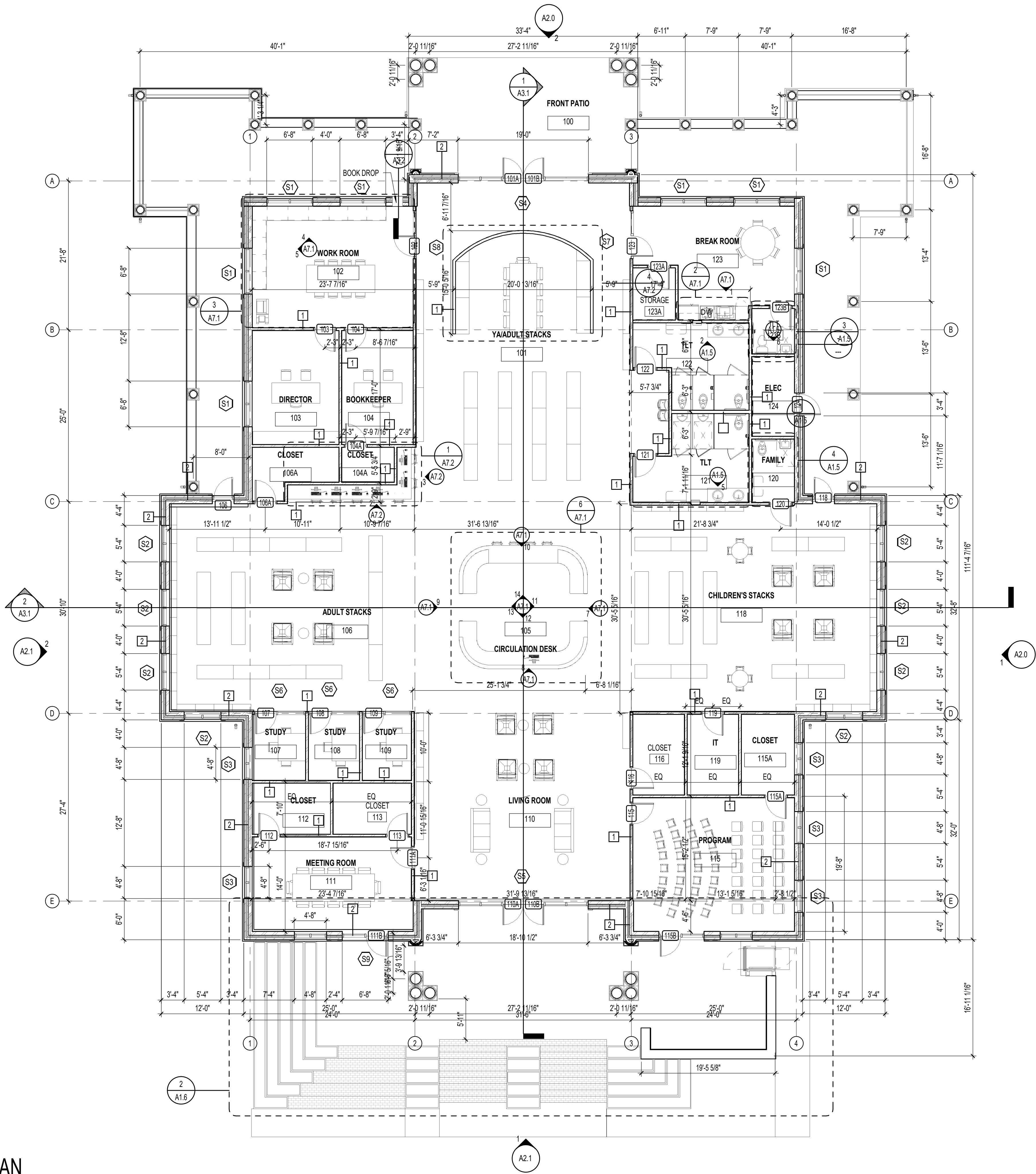
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Checker	
Sheet Title SITE PLAN	



1 SITE PLAN
A1.0 1" = 20'-0"

1
A1.1 FLOOR PLAN
1/8" = 1'-0"



WALL LEGEND

INTERIOR STUD WALL - 3 5/8"			EXTERIOR BRICK VENEER STUD WALL		
MARK	PLAN VIEW	REMARKS	MARK	PLAN VIEW	REMARKS
1		TOP OF WALL = TIGHT TO DECK	2		TOP OF WALL = SEE WALL SECTIONS

GENERAL FLOOR PLAN NOTES

1. DIMENSIONS ON THIS PLAN ARE FROM: FACE OF BRICK TO INTERIOR FACE OF EXTERIOR WALL, CENTERLINE TO CENTERLINE OF INTERIOR WALLS.
2. PROVIDE BRACING BACK TO STRUCTURE FOR INTERIOR WALLS. TYPICAL.
3. ALL DRYWALL SHALL BE 5/8" AND SHALL EXTEND 4" MINIMUM ABOVE FINISH CEILING (U.N.O.)
4. INSTALL SOUND ATTENUATION BATT INSULATION FULL HEIGHT IN ALL INTERIOR STUD FRAMED WALLS.
5. INSTALL SOUND ATTENUATION BATT INSULATION 4" WIDE AROUND CEILING PERIMETER OF ALL ROOMS WITH SOUND BATT IN WALLS.
6. VERIFY ALL DIMENSIONS AND SIZES PRIOR TO CONSTRUCTION.
7. SCHEDULE AND COORDINATE ALL INSPECTIONS REQUIRED.
8. OBTAIN ALL PERMITS REQUIRED.
9. COORDINATE ALL SCHEDULES WITH THE OWNER PRIOR TO CONSTRUCTION.
10. REFER TO STRUCTURAL PLANS FOR ALL STRUCTURAL HEADERS.
11. SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW SIZES.

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Sheet Title
FLOOR PLAN

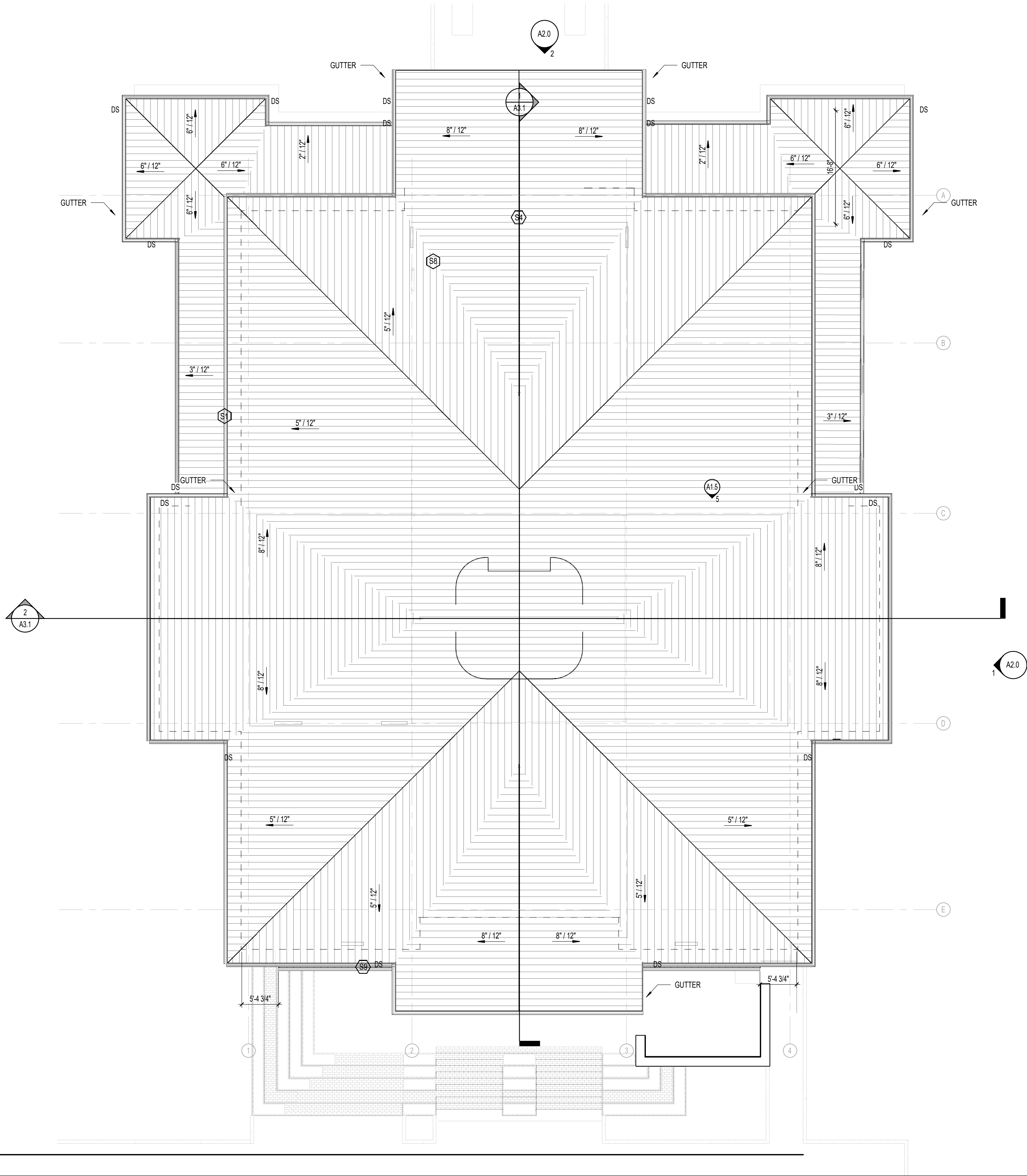
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1
A1.2

ROOF PLAN

1/8" = 1'-0"



ROOF LEGEND

- INDICATES DIRECTION OF ROOF SLOPE ACHIEVED THRU STRUCTURE AND TAPERED INSULATION
- INDICATES THICKNESS OF TAPERED INSULATION ABOVE PRIMARY ROOF INSULATION AND UNDERLAYMENT BOARD IF REQUIRED - REFER TO WALL SECTIONS AND STRUCTURAL FOR ACTUAL ELEVATIONS
- RD PRIMARY ROOF DRAIN, REFER TO PLUMBING PLANS FOR DESCRIPTION, TYPICAL
- OD SECONDARY (EMERGENCY) ROOF DRAIN, REFER TO PLUMBING PLANS FOR DESCRIPTION, TYPICAL
- SC THROUGH WALL SCUPPER SECONDARY (EMERGENCY) ROOF DRAIN, TYPICAL

GENERAL ROOF NOTES

- GUTTER AND DOWNSPOUTS SHALL BE FURNISHED AND INSTALLED BY ROOFING CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS REQUIRED AND MAKE ALL NECESSARY PROVISIONS FOR SAME.
- GUTTERS, DOWNSPOUTS AND COMPONENTS SHALL BE PREFINISHED ALUMINUM COLOR - PER ARCHITECT.
- ALL DOWNSPOUTS SHALL TURN INTO STORM DRAIN. REFER TO FLOOR PLAN MORE INFORMATION.
- ALL ROOF MOUNTED ITEMS SHALL BE PAINTED, CLEAN PREPARE AND PRIME SURFACES AS REQUIRED - COLOR PER ARCHITECT.
- FURNISH AND INSTALL 36" WIDE X LENGTH REQUIRED SELF ADHERED ICE AND WATER SHIELD ROOFING UNDERLAYMENT AT ALL EDGES, RIDGES, HIPS, AND VALLEYS.

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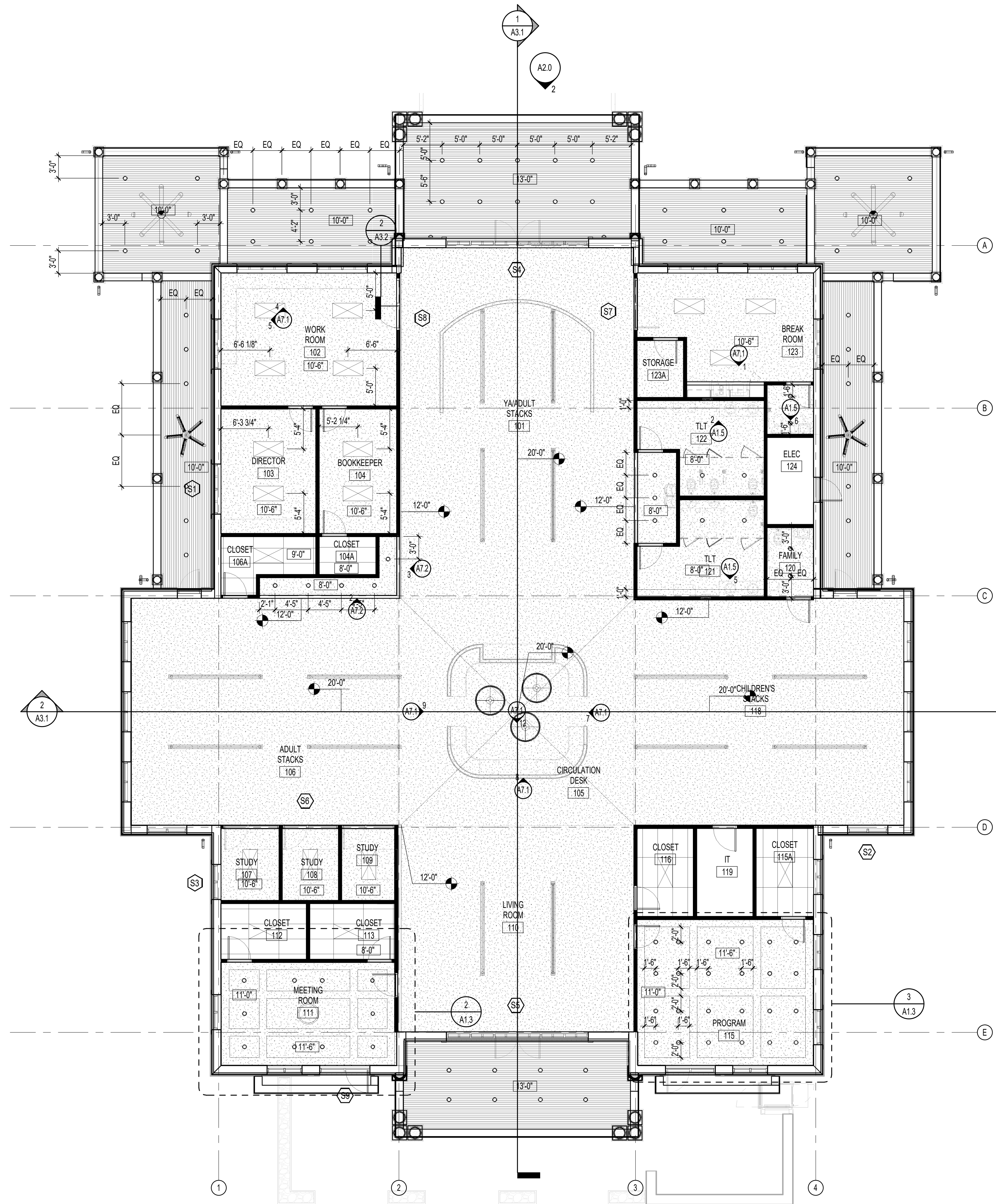
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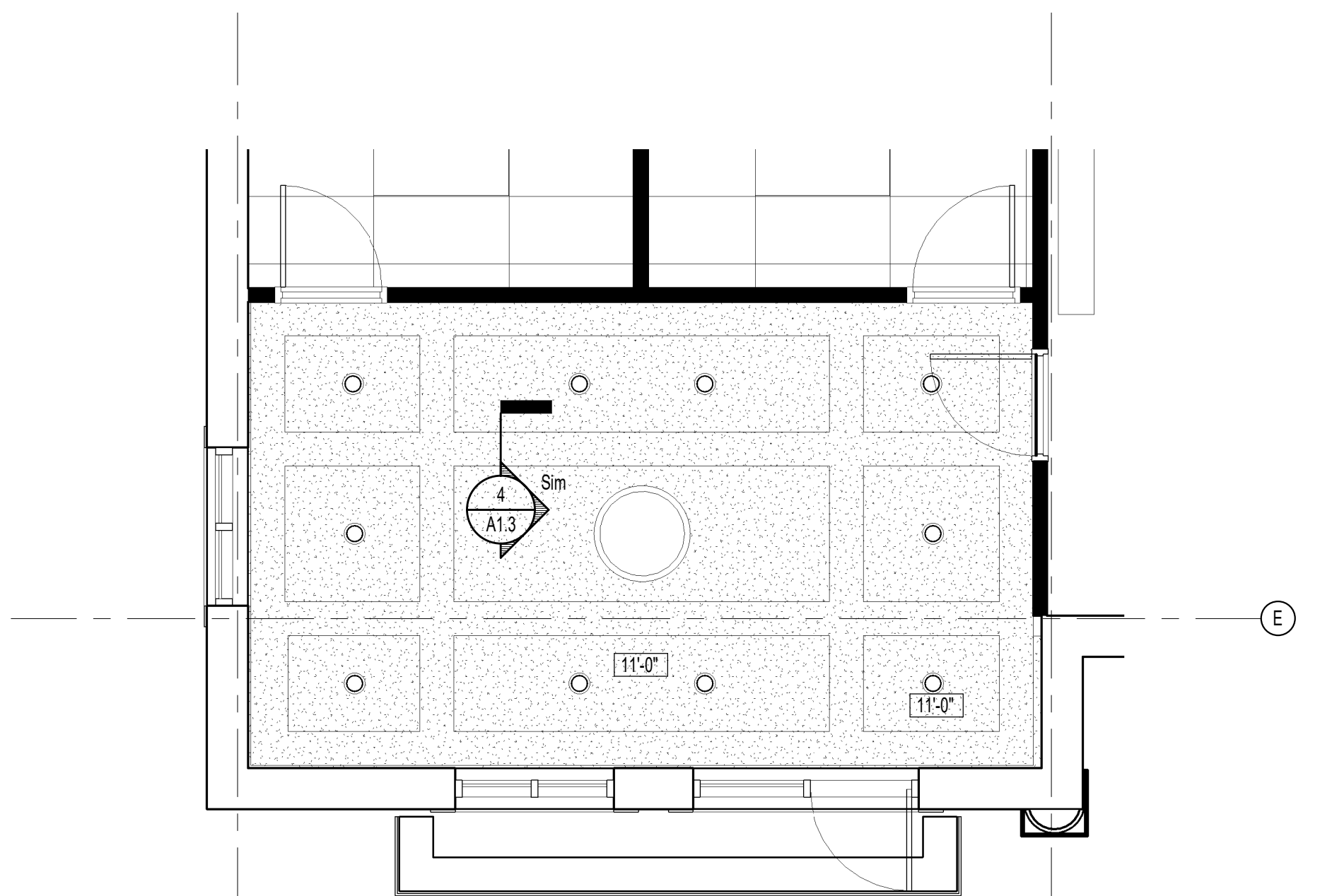
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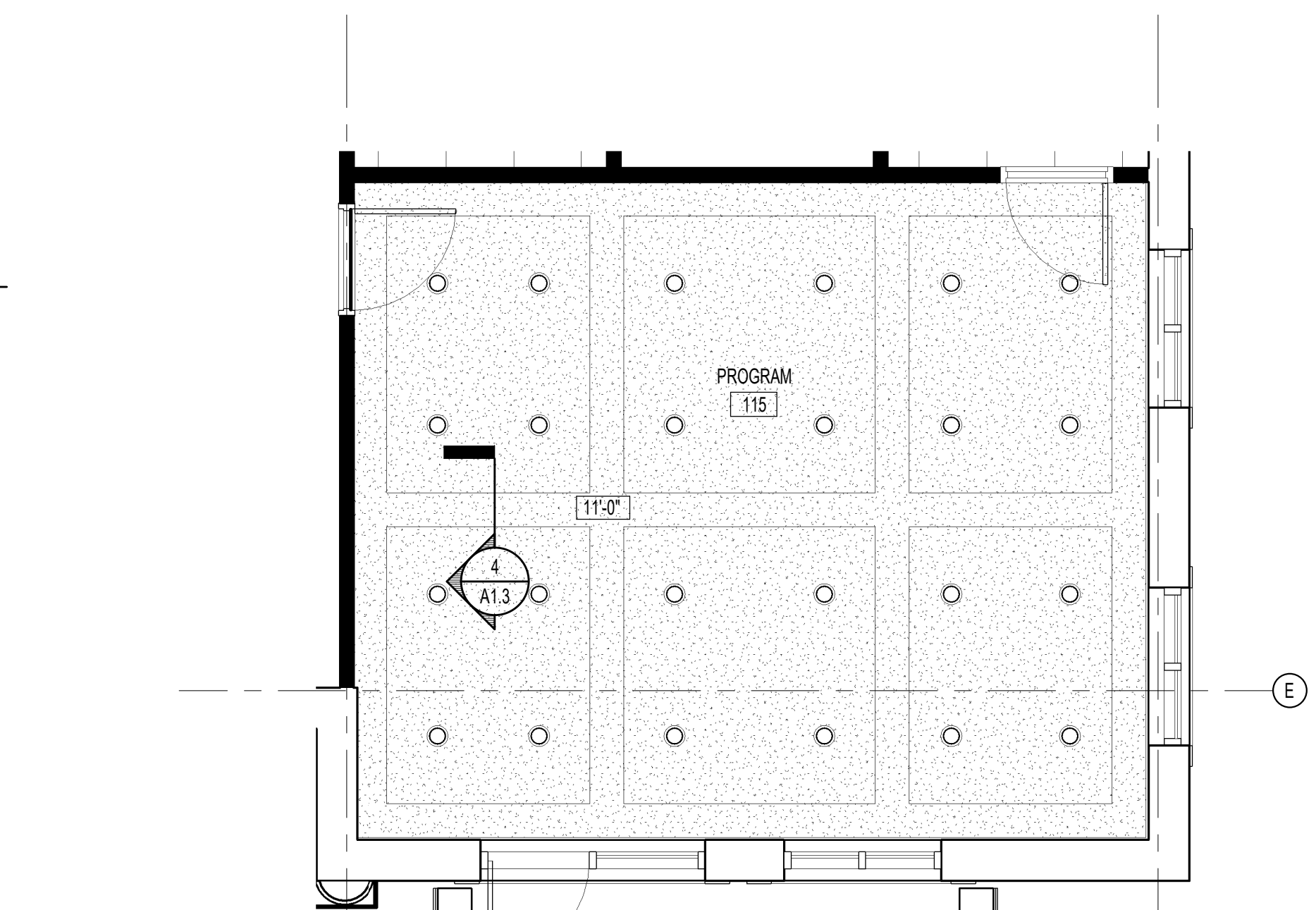
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1 REFLECTED CEILING PLAN
1/8" = 1'-0"



2 111 ENLARGED RCP
1/4" = 1'-0"



3 115 ENLARGED RCP
1/4" = 1'-0"

LEGEND

2X2 LAY-IN CEILING SYSTEM

2X2 LAY-IN CEILING SYSTEM (VINYL COATED) TYP IN WET LOCATIONS

5/8" GYPSUM BOARD

EXISTING CEILING TO REMAIN, MINOR CEILING MOUNTED EQUIPMENT ADJUSTMENTS MAY BE REQUIRED.

X-X"

CEILING HEIGHT KEY

2 x 4 RECESSED LIGHT FIXTURE

HIGH BAY LED LIGHTING FIXTURE

WALL WASH

DECORATIVE PENDANT LIGHTING FIXTURE

CAN LIGHT FIXTURE

WALL MOUNTED TELEVISION

CEILING NOTES

A. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR FULL DESCRIPTION OF CEILING MOUNTED ITEMS/DEVICES

B. ALL GRIDS ARE CENTERED IN A ROOM UNLESS NOTED OTHERWISE

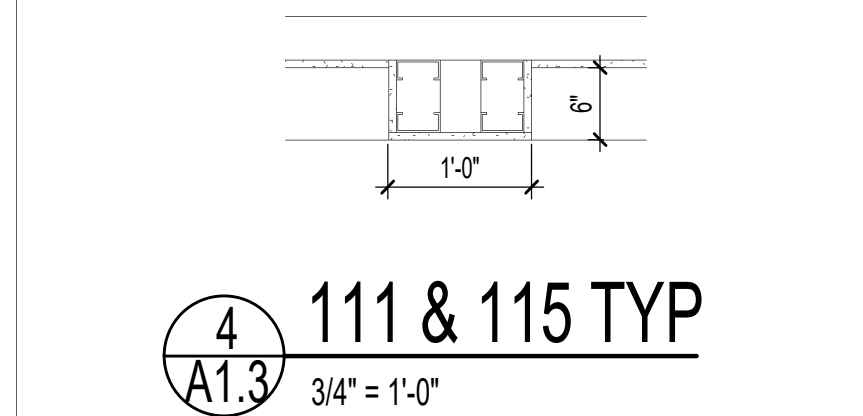
C. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISH PLANS FOR CEILING TYPES

D. CONTRACTOR TO REVIEW LAYOUT AND NOTIFY ARCHITECT OF ACOUSTICAL CEILING PANELS THAT ARE LESS THAN 3" IN WIDTH OR LENGTH

E. ALL NEW LIGHT FIXTURES, EXIT SIGNS, SPRINKLER HEADS AND TERMINAL DEVICES TO BE CENTERED IN CEILING PANELS, UNLESS OTHERWISE INDICATED

F. NOT ALL MEP DEVICES ARE SHOWN IN CEILING PLANS, SEE MEP DRAWINGS FOR LOCATIONS AND QUANTITIES

G. FOR PENDANT MOUNTING HEIGHT REFER TO ELEVATIONS AND REFLECTED CEILING PLAN LEGEND



4 111 & 115 TYP
3/4" = 1'-0"

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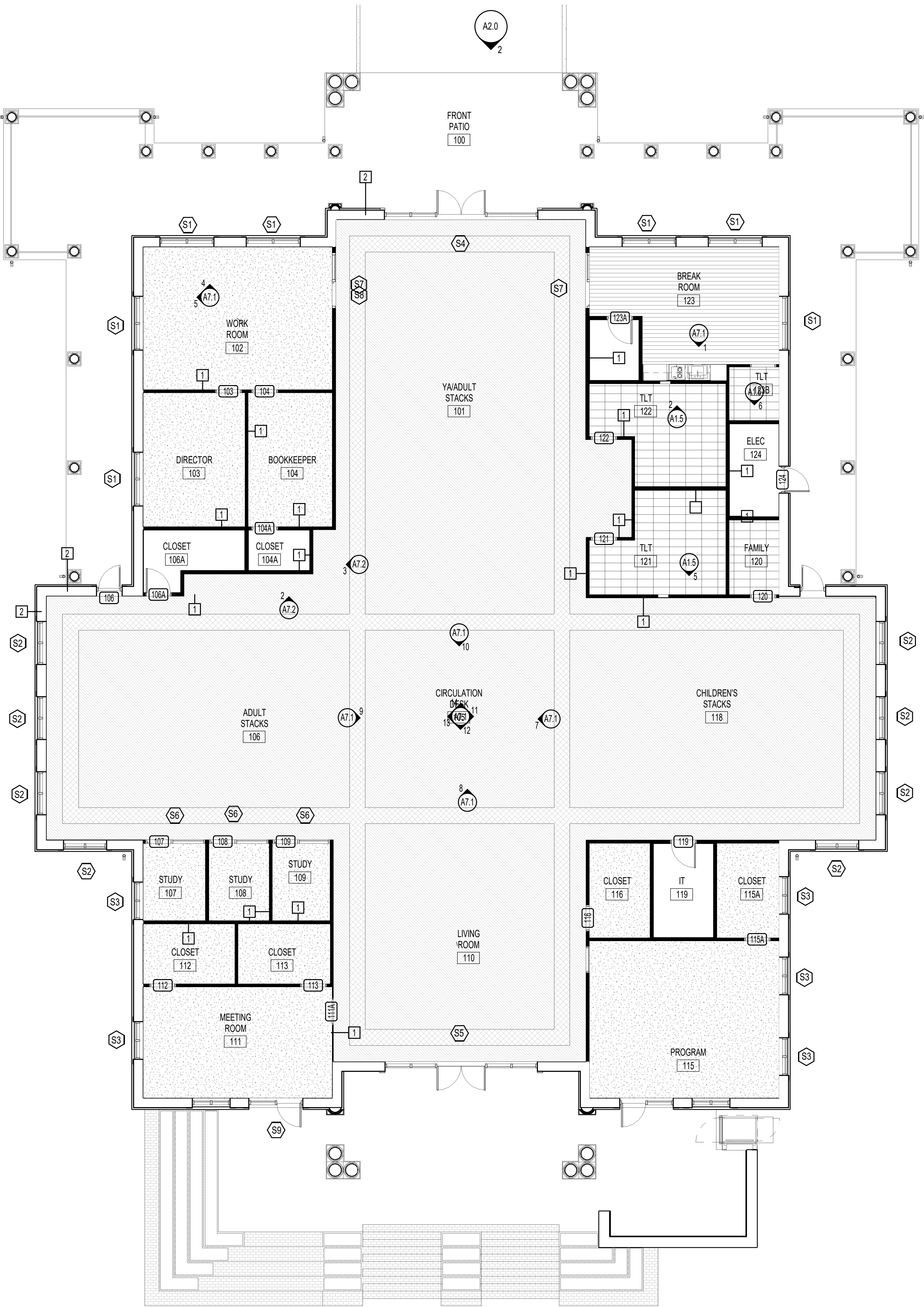
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Sheet Title
REFLECTED CEILING PLAN
- FIRST FLOOR

1
A1.4

FINISH PLAN

1/8" = 1'-0"



FINISH PLAN NOTES

1. ALL EXISTING HM DOOR AND WINDOW FRAMES TO RECEIVE NEW PAINT. COLOR PER ARCHITECT.
2. ALL EXISTING COVER PLATES FOR DEVICES TO BE REPLACED WITH ALL NEW SS COVER PLATES.
3. SEE INTERIOR ELEVATIONS FOR FULL EXTENT OF WALL FINISHES AS KEED IN PLANS.
4. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO INSTALLATION OF FINISHES.
5. TS = FURNISH AND INSTALL TRANSITION STRIP AT ALL FLOOR MATERIAL CHANGES AS SHOWN OR AS REQUIRED.
6. HEIGHT AND PROFILE OF ALL TRANSITIONS STRIPS SHALL COMPLY WITH HANDICAP CODE.
7. COLOR FOR ALL TRANSITION STRIPS SHALL BE AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
8. COORDINATE LOCATION OF ALL TRANSITION STRIPS WITH EXISTING AND NEW CONDITIONS. WHERE POSSIBLE, LOCATE TRANSITION STRIPS UNDER DOOR SLABS. NO EXPOSED SLAB PERMITTED IN FINISHED AREAS.
9. COORDINATE SIZE OF ALL TRANSITION STRIPS WITH FINISH MATERIALS.

FINISH LEGEND

ROOM NAME ROOM NUMBER		WALL FINISHES BASED ON PLAN DIRECTION (PLAN N.E.S.W) **PLAN DIRECTION REFERS TO ORIENTATION ON THIS SHEET	
NORTH	EAST	BASE	BRAND
WALL FINISH		FLOOR FINISH	
PT-1 INTERIOR FIELD PAINT 1 PT-2 INTERIOR FIELD PAINT 2 PT-3 INTERIOR ACCENT PAINT 3 PT-4 INTERIOR ACCENT PAINT 4 PT-5 INTERIOR ACCENT PAINT 5 PT-6 INTERIOR ACCENT PAINT 6 PT-7 INTERIOR ACCENT PAINT 7		PAV BRICK PAVERS FT-1 FLOOR TILE PATTERN 1 CPT-1 CARPET TILE PATTERN 1 CPT-2 CARPET TILE PATTERN 2 CPT-3 CARPET TILE PATTERN 3 WC-1 WALL COVERING 1 WC-2 WALL COVERING 2 WT-1 WALL TILE 1 WT-2 WALL TILE 2 WT-3 WALL TILE 3	
SURFACE FINISH		WALL BASE	
PL-1 P-LAM 1 PL-2 P-LAM 2 PL-3 P-LAM 3		RB-1 RUBBER BASE TB-1 TILE BASE WB-1 WOOD BASE	
QS-1 QUARTZ 1 SS-1 SOLID SURFACE 1 SS-2 SOLID SURFACE 2 SS-3 SOLID SURFACE 3		CEILING FINISH	
		ACT-1 ACOUSTICAL CEILING TILE GWB GYPSUM WALL BOARD EXP EXPOSED STRUCTURE TNG PAINTED TONGUE AND GROOVE	

FLOOR FINISH FILL LEGEND

CPT-1: CARPET TILE 1	FT-1: FLOOR TILE 1
CPT-2: CARPET TILE 2	LVT-1: LUXURY VINYL TILE
CPT-3: CARPET TILE 3	SC: SEALED CONCRETE

- NOTES:
1. PATTERNS IN THIS LEGEND APPLY TO FLOOR FINISH PLAN ONLY.
 2. SEE FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING	SIGNAGE	COMMENTS
100	FRONT PATIO	PAV	N/A	N/A	N/A	N/A	N/A	TNG		
101	YAADULT STACKS	CPT-1/CPT-2	WB-1	PT-1	PT-1	N/A	PT-1	GWB		
102	WORK ROOM	CPT-3	WB-1	PT-2	PT-2	PT-2	PT-2	GWB		
103	DIRECTOR	CPT-3	WB-1	PT-2	PT-2	PT-2	PT-2	GWB		
104	BOOKKEEPER	CPT-3	WB-1	PT-2	PT-2	PT-2	PT-2	GWB		
104A	CLOSET	CPT-3	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1		
105	CIRCULATION DESK	CPT-1/CPT-2	WB-1	PT-1	PT-1	PT-1	PT-1	GWB		
106	ADULT STACKS	CPT-1/CPT-2	WB-1	PT-1	N/A	PT-1	PT-1	GWB		
106A	CLOSET	CPT-3	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1		
107	STUDY	CPT-3	WB-1	PT-3	PT-3	PT-3	WC-1	GWB		
108	STUDY	CPT-3	WB-1	PT-3	PT-3	PT-3	WC-1	GWB		
109	STUDY	CPT-3	WB-1	PT-3	PT-3	PT-3	WC-1	GWB		
110	LIVING ROOM	CPT-1/CPT-2	WB-1	N/A	PT-1	PT-1	PT-1	GWB		
111	MEETING ROOM	CPT-3	RB-1	PT-5	PT-5	PT-5	PT-5	GWB		
112	CLOSET	CPT-3	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1		
113	CLOSET	CPT-3	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1		
115	PROGRAM	CPT-3	WB-1	PT-4	PT-4	PT-4	PT-4	GWB		
115A	CLOSET	CPT-3	RB-1	PT-2	PT-2	PT-2	PT-2	GWB		
116	CLOSET	CPT-3	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1		
118	CHILDREN'S STACKS	CPT-1/CPT-2	WB-1	PT-1	PT-1	PT-1	N/A	GWB		
119	IT	SC	RB-1	PT-2	PT-2	PT-2	PT-2	EXP		
120	FAMILY	FT-1	TB-1	WC-1	PT-7	PT-7	PT-7	ACT-1		
121	TLT	FT-1	TB-1	PT-7	PT-7	PT-7	PT-7	GWB		
122	TLT	FT-1	TB-1	WT-2	PT-6	PT-6	PT-6	GWB		
123	BREAK ROOM	LVT	WB-1	PT-2	PT-2	PT-2	PT-2	GWB		
123A	STORAGE	CPT-3	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1		
123B	TLT	FT-1	TB-1	PT-6	WT-2	PT-6	PT-6	GWB		
124	ELEC	SC	RB-1	PT-2	PT-2	PT-2	PT-2	EXP		
124	BACK PATIO	PAV	N/A	N/A	N/A	N/A	N/A	TNG		

NEW CONSTRUCTION FOR:

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VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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303 W. Nantux Street, Raleigh, NC 27601

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GENERAL NOTE:
Prior to construction
start. Contractor shall
verify & be responsible
for all Dimensions.

Revisions
Description Date

Date
11/15/2024

Project No.
22038

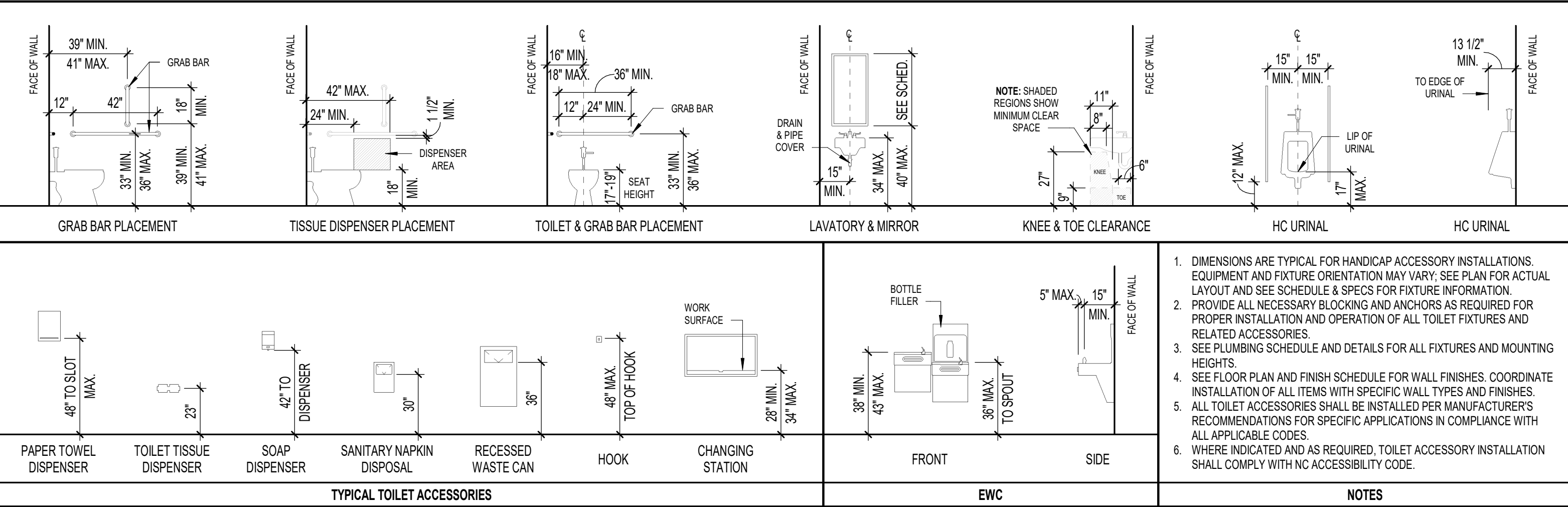
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RL

Sheet No.
A1.4

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JG

Sheet Title
FINISH PLAN - FIRST
FLOOR

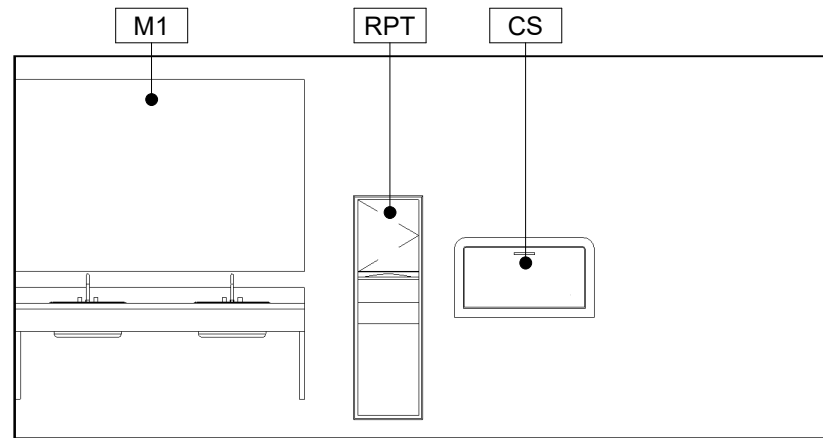
HC ACCESSORIES LEGEND



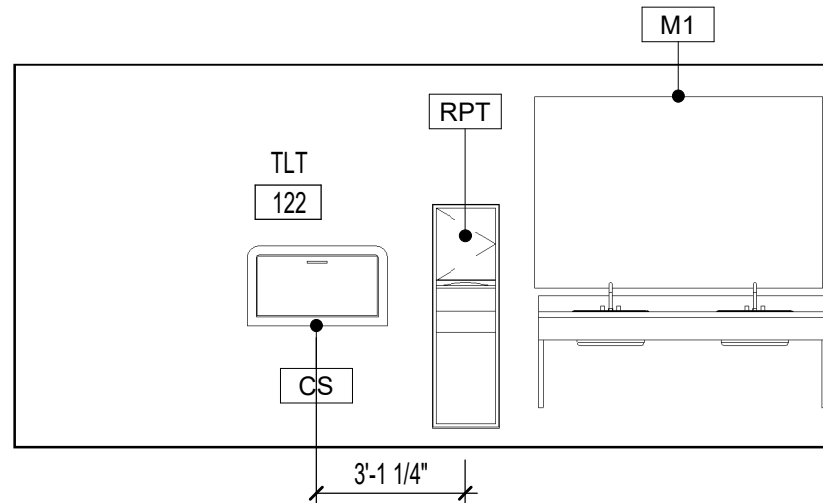
TOILET ACCESSORIES SCHEDULE

TAG	DESCRIPTION	MANUF.	MODEL NO.	MOUNTING HEIGHT
PD	PAPER TOWEL DISPENSER	A.S.I.	20210	48" TO SLOT
T2	SURFACE MOUNTED SOAP DISPENSER	-	-	50 7/8" TO TOP
M1	72" X 48" FRAMED MIRROR	-	-	40" TO BOTTOM
TP	SINGLE ROLL TISSUE DISPENSER	A.S.I.	7305-S-R009	27" C.L.
GB36	1 1/2" DIA. X 36" S.S. GRAB BAR - PEENED	A.S.I.	3800-36P	34" C.L.
GB42	1 1/2" DIA. X 42" S.S. GRAB BAR - PEENED	A.S.I.	3800-42P	34" C.L.
GB18	1 1/2" DIA. X 18" S.S. (VERTICAL) GRAB BAR - PEENED	A.S.I.	3800-18P	39" TO BOTTOM
TS	SOLID PLASTIC TOILET PARTITION	ACCURATE	-	-
RPT	RECESSED PAPER TOWEL AND TRASH	-	-	-
CS	CHANGING STATION	-	-	30 1/2" TO BOTTOM
SN	SANITARY NAPKIN DISPOSAL	-	-	-

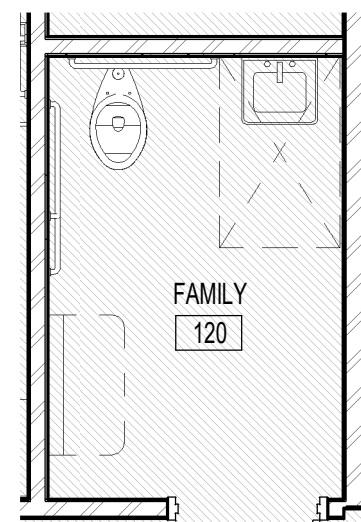
- ALL TOILET ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS IN COMPLIANCE WITH ALL APPLICABLE CODES.
- WHERE INDICATED AND AS REQUIRED, TOILET ACCESSORY INSTALLATION SHALL COMPLY WITH NC ACCESSIBILITY CODE.
- FURNISH AND INSTALL ALL NECESSARY FRAMING AND BLOCKING AS REQUIRED FOR PROPER INSTALLATION AND OPERATION OF ALL ACCESSORIES.
- MANUFACTURER AND MODEL NUMBERS INDICATED REPRESENT BASIS OF DESIGN. APPROVED EQUALS WILL BE ACCEPTED.



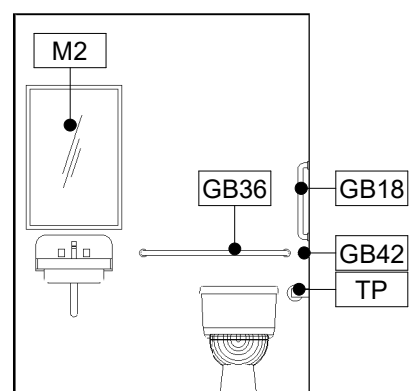
5
A1.5
TLT 122
1/4" = 1'-0"



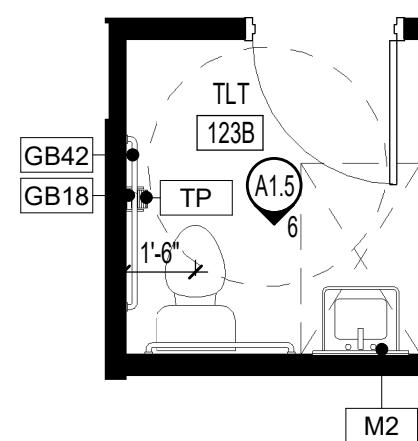
2
A1.5
TLT 121
1/4" = 1'-0"



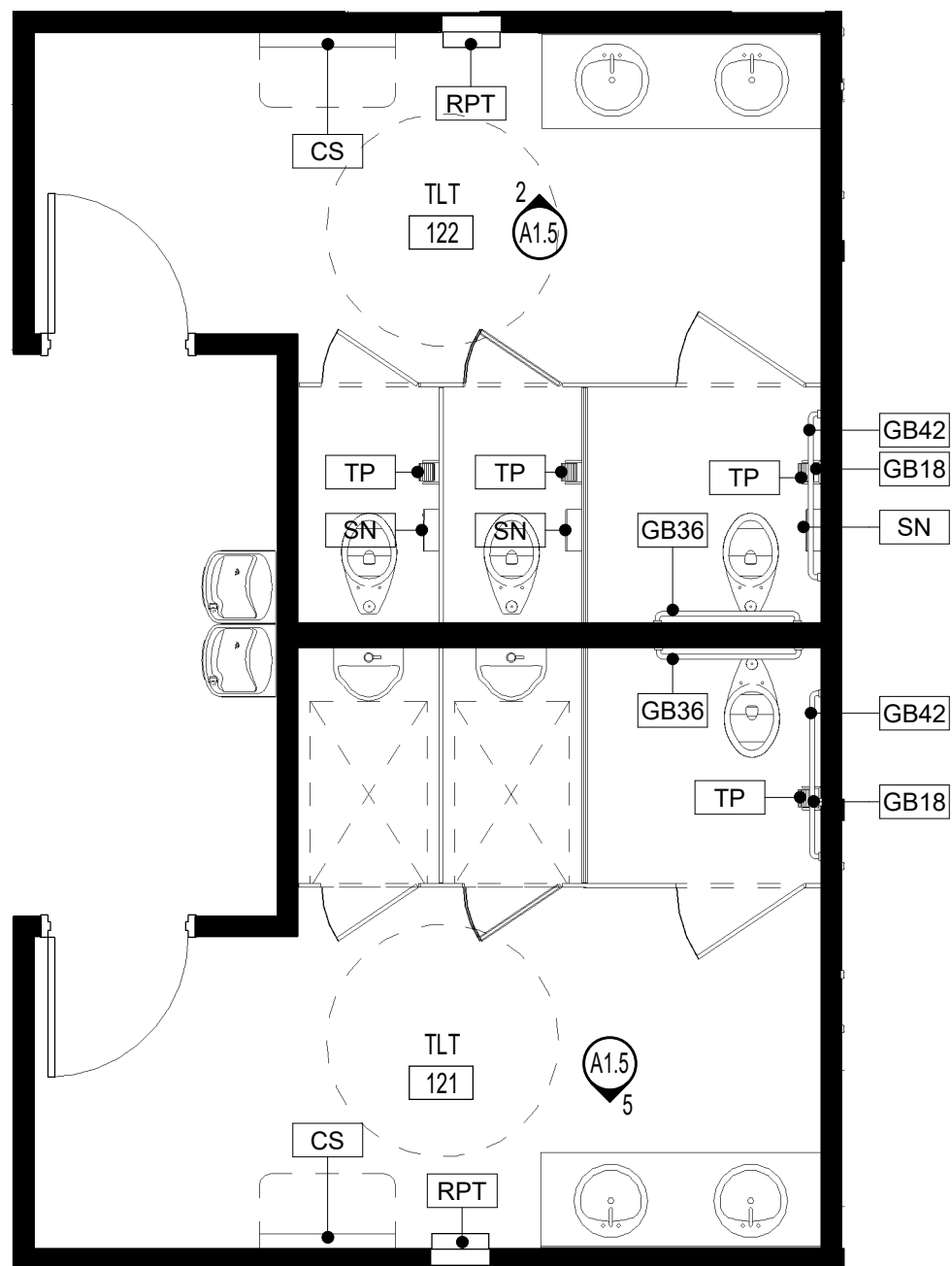
4
A1.5
FAMILY 120
1/4" = 1'-0"



6
A1.5
TLT 123B
1/4" = 1'-0"



3
A1.5
TLT 123B
1/4" = 1'-0"



1
A1.5
TLT 121 & 122
1/4" = 1'-0"

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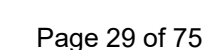
VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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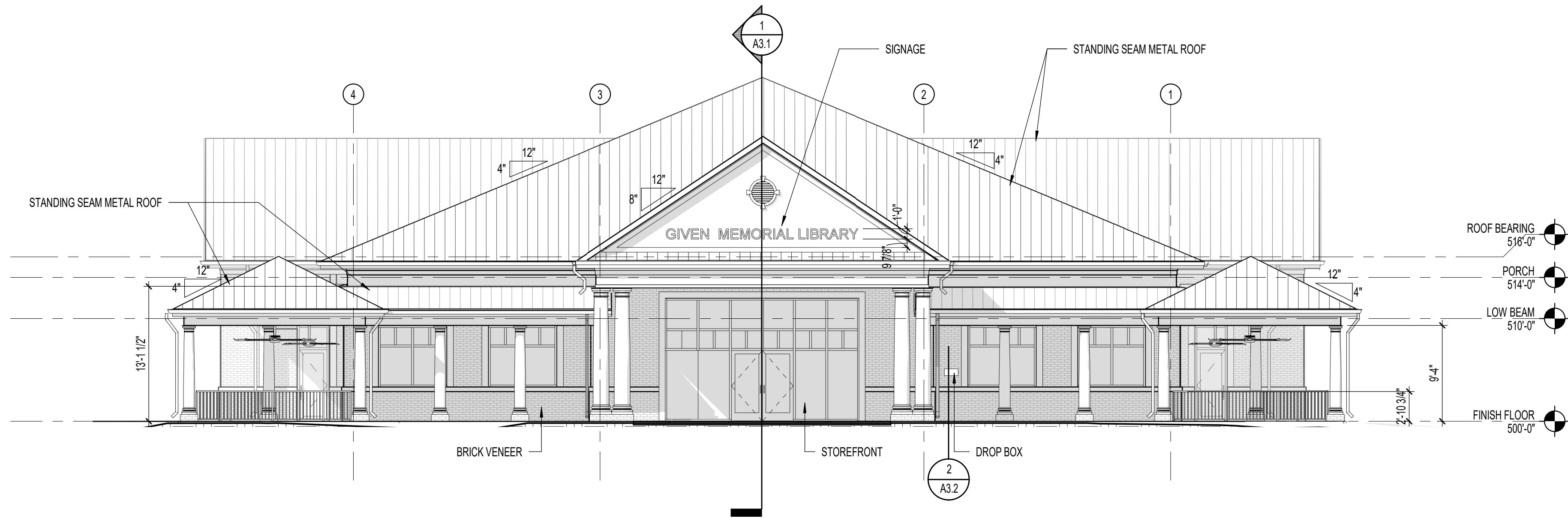
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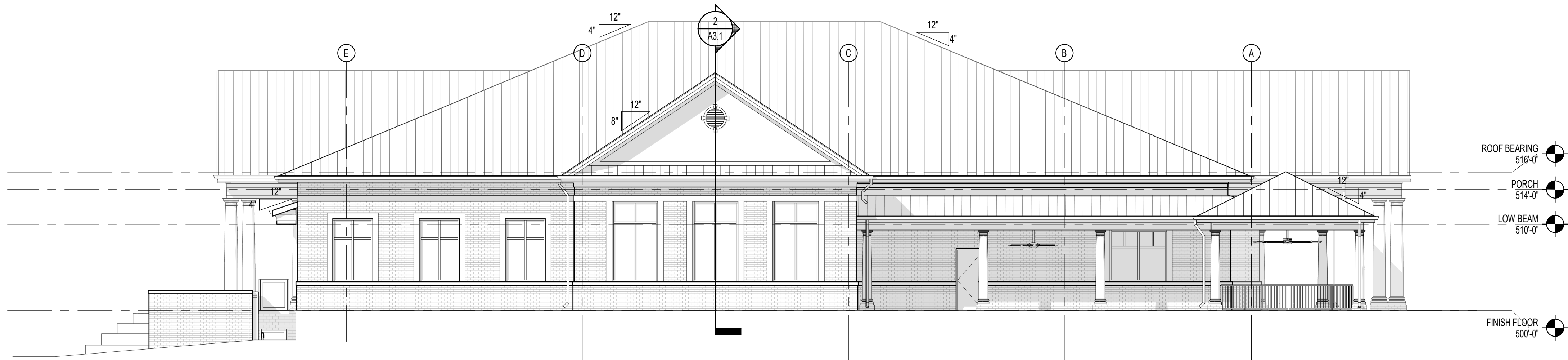
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Revisions	Description	Date
#		
Date	Project No.	
11/15/2024	22038	
Drawn By	Sheet No.	
RL		
Checked By	A1.5	
JG		
Sheet Title ENLARGED PLANS		



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2 FRONT ELEVATION
A2.0 1/8" = 1'-0"



1 LEFT SIDE ELEVATION
A2.0 1/8" = 1'-0"

GENERAL NOTE:
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start, Contractor shall
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for all Dimensions.

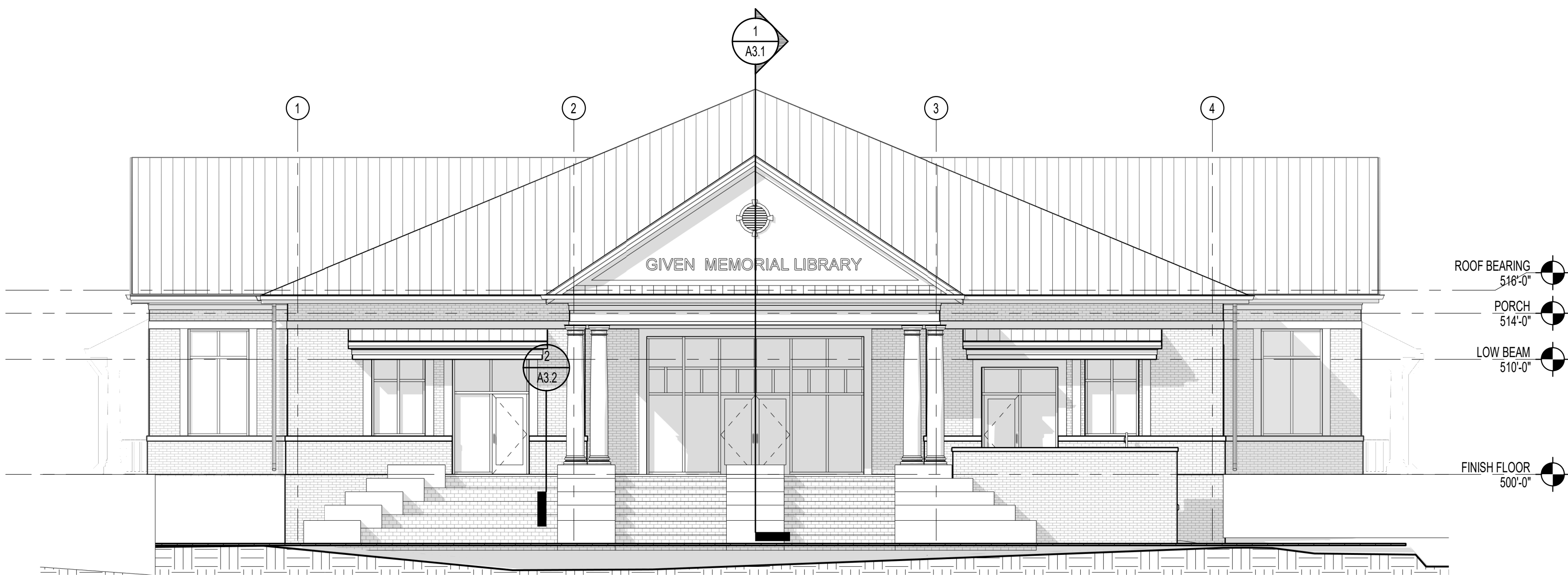
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Description Date

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11/15/2024	22038
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RL	A2.0
Checked By	
JG	

Sheet Title
BUILDING ELEVATIONS

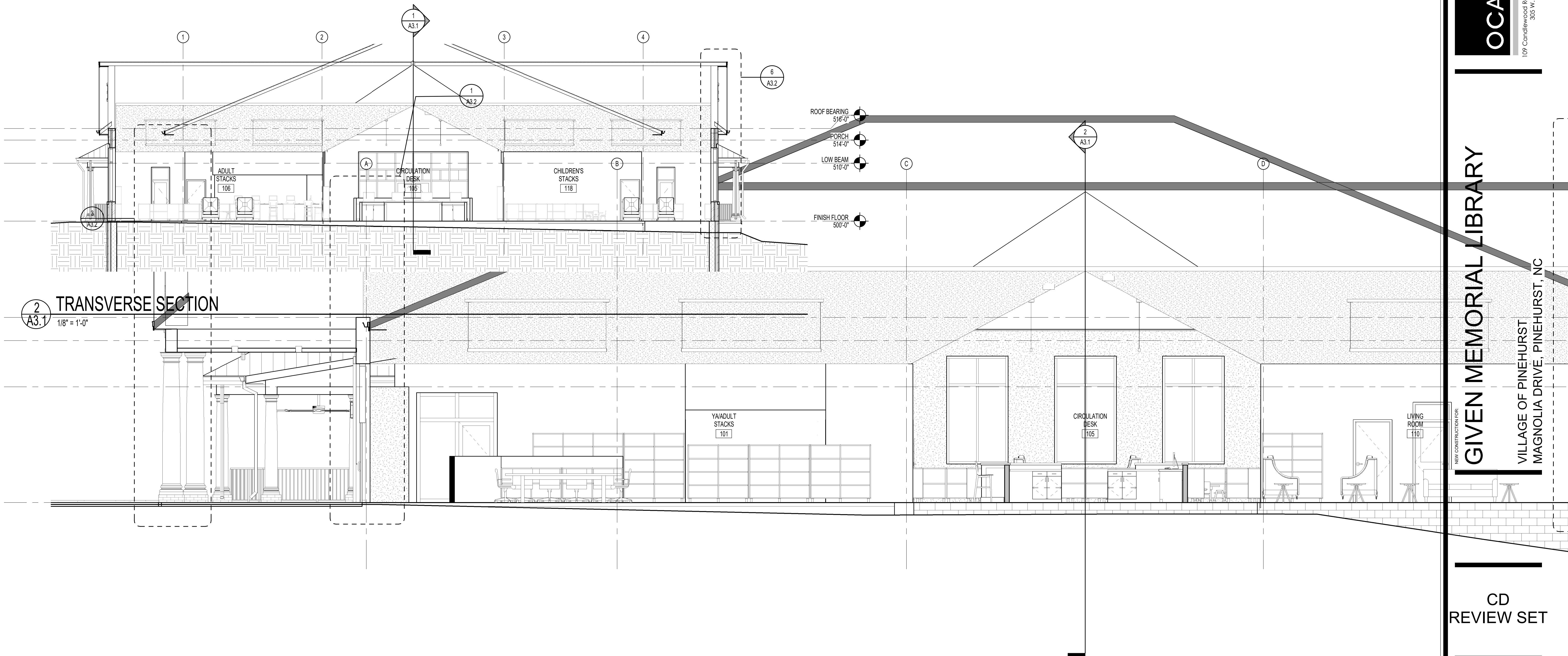


2
A2.1
RIGHT SIDE ELEVATION
1/8" = 1'-0"



1
A2.1
REAR ELEVATION
1/8" = 1'-0"

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Date	Project No.	
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RL	A2.1	
Checked By		
JG		
Sheet Title BUILDING ELEVATIONS		



2
A3.1
TRANSVERSE SECTION
1/8" = 1'-0"

1
A3.1
LONGITUDINAL SECTION
1/4" = 1'-0"

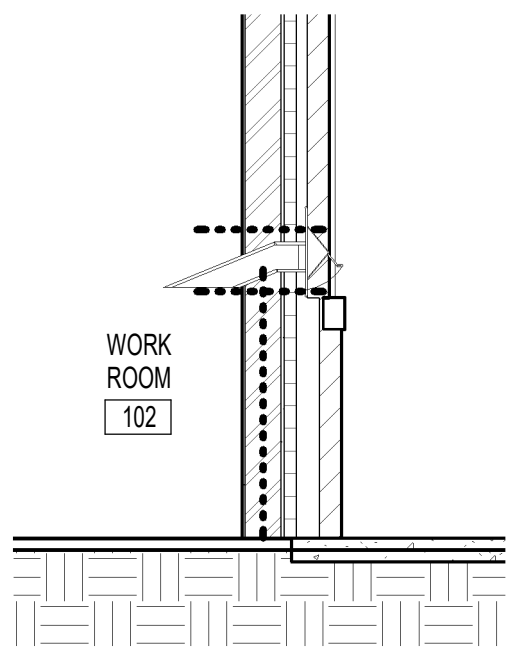
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VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

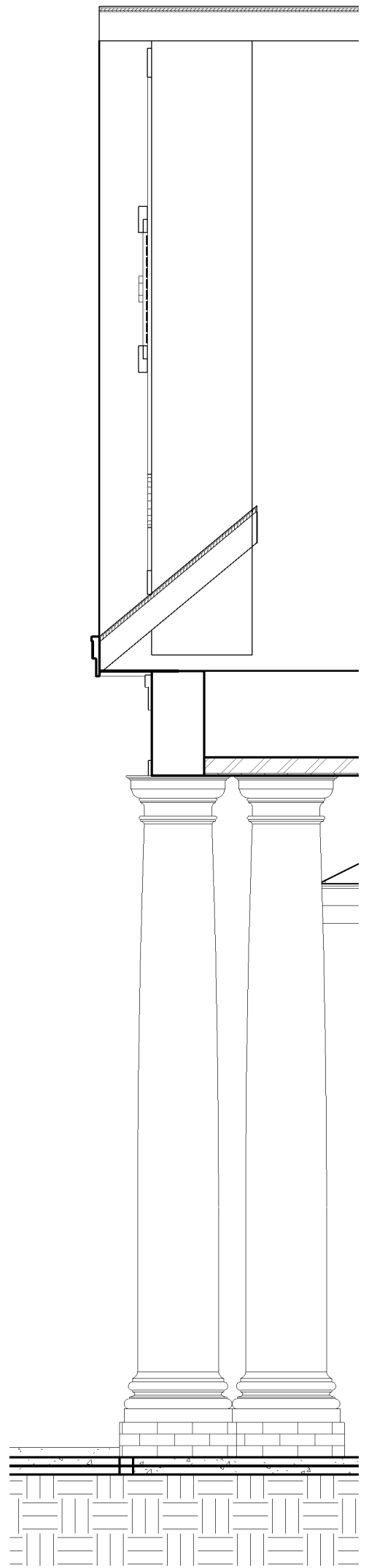
NEW CONSTRUCTION FOR:

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REVIEW SET

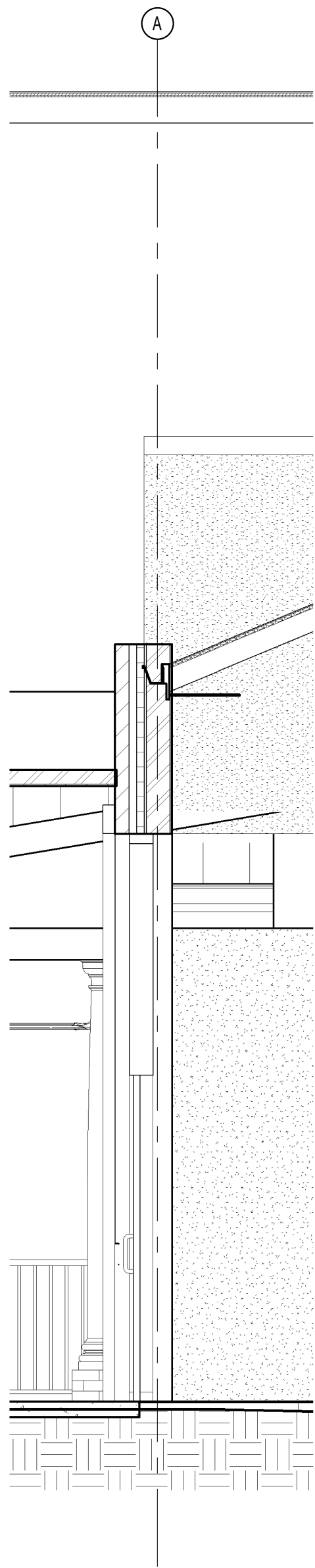
GENERAL NOTE: Prior to construction start, Contractor shall verify & be responsible for all Dimensions.		
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#	Description	Date
Date	Project No.	
11/15/2024	22038	
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RL	A3.1	
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Checker		
Sheet Title		
BUILDING SECTIONS		



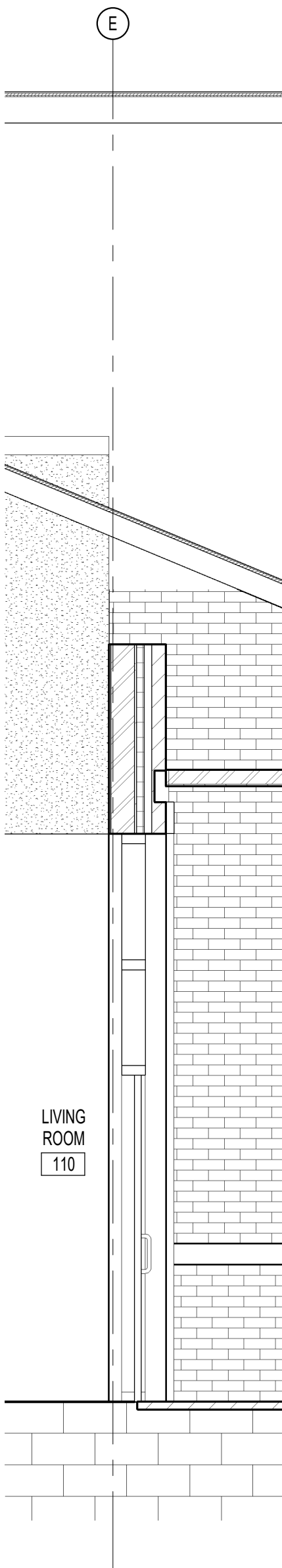
2 WS 102 - BOOK DROP
A3.2 3/8" = 1'-0"



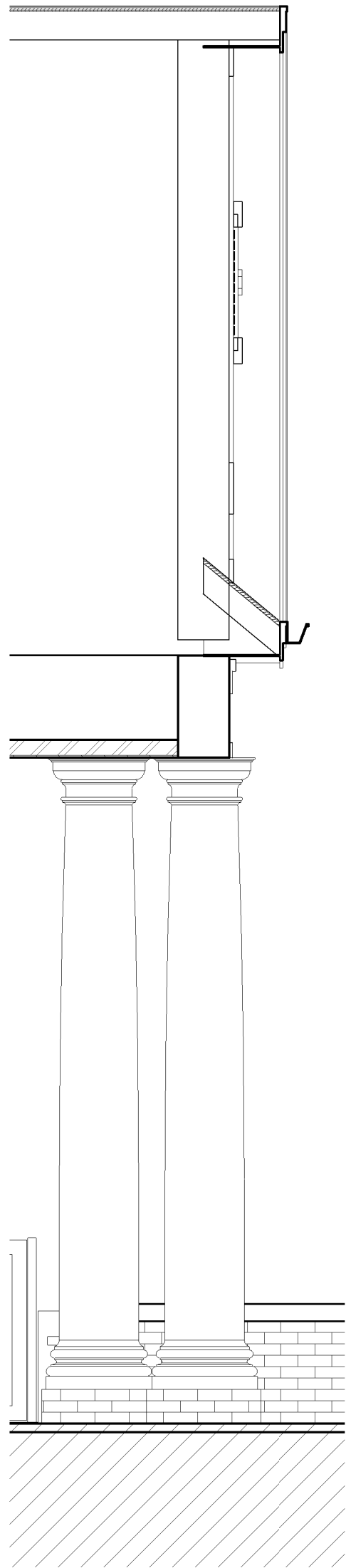
3 WS FRONT PORCH
A3.2 3/8" = 1'-0"



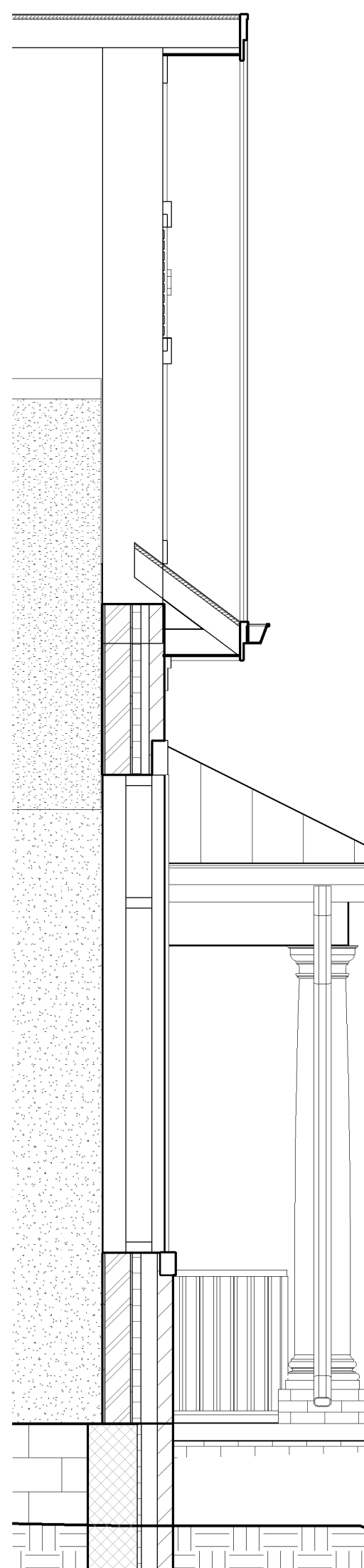
1 WS 101
A3.2 3/8" = 1'-0"



4 WS 110
A3.2 3/8" = 1'-0"



5 WS PATIO
A3.2 3/8" = 1'-0"



6 WS 116
A3.2 3/8" = 1'-0"

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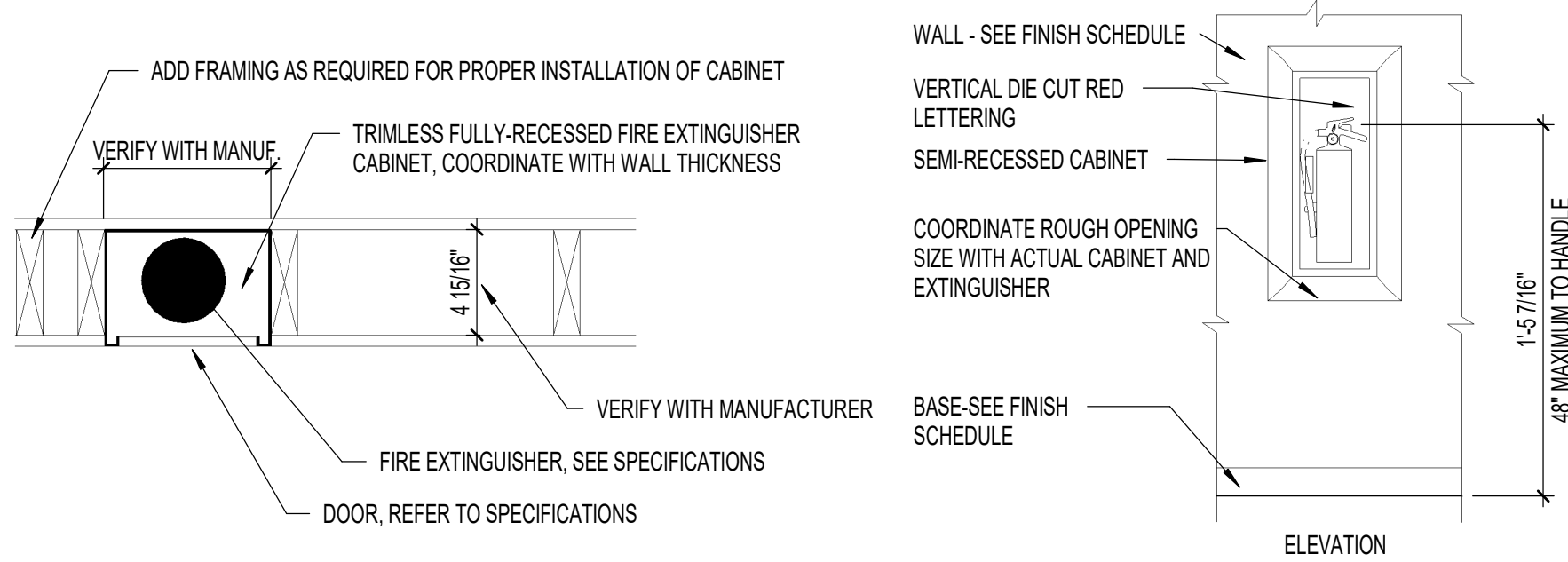
VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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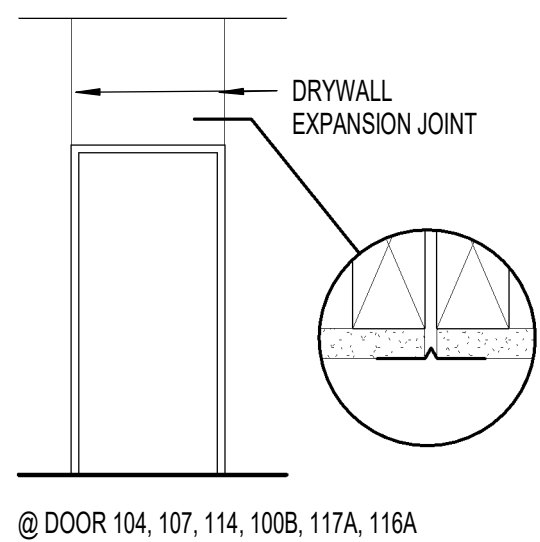
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RL		A3.2	
Checked By		Sheet Title	
JG		WALL SECTIONS	



2 RECESSED FEC
1 1/2" = 1'-0"



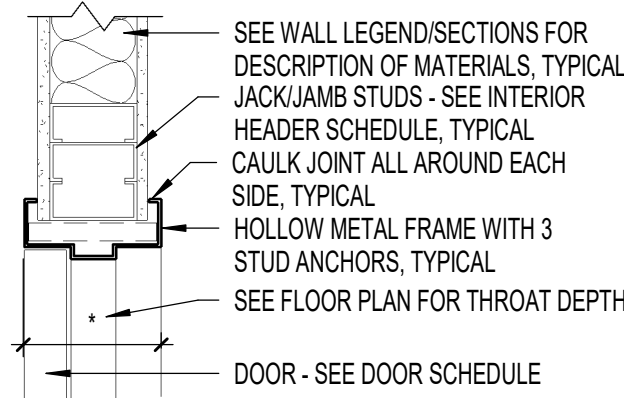
1 DETAIL
3" = 1'-0"

NEW CONSTRUCTION FOR:

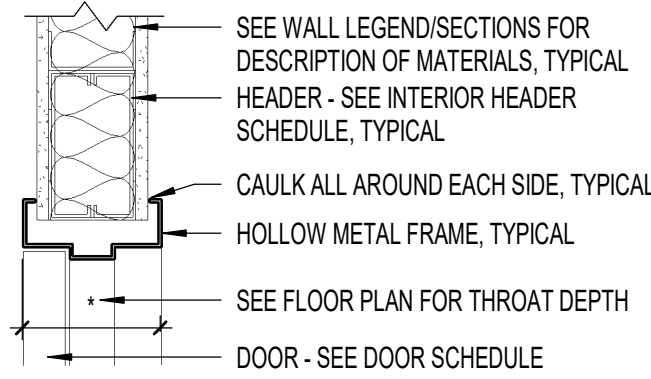
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VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

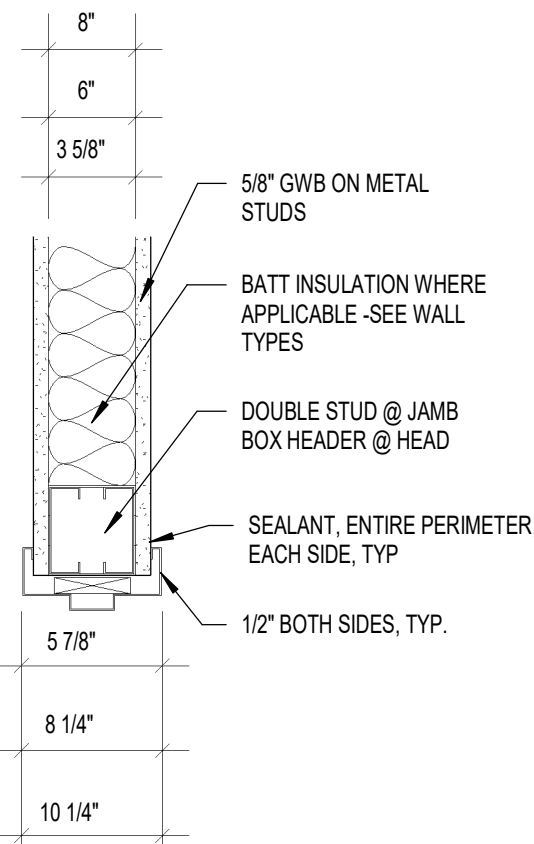
GENERAL NOTE: Prior to construction start, Contractor shall verify & be responsible for all Dimensions.		
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Checked By	A5.1	
Checker		
Sheet Title		
DETAILS		



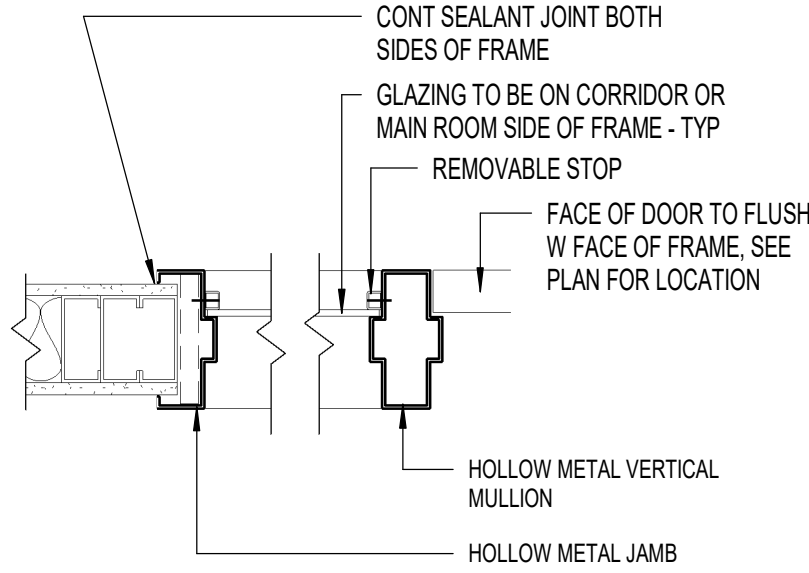
6
A6.1 JAMB DETAIL - HM DOOR
1 1/2" = 1'-0"



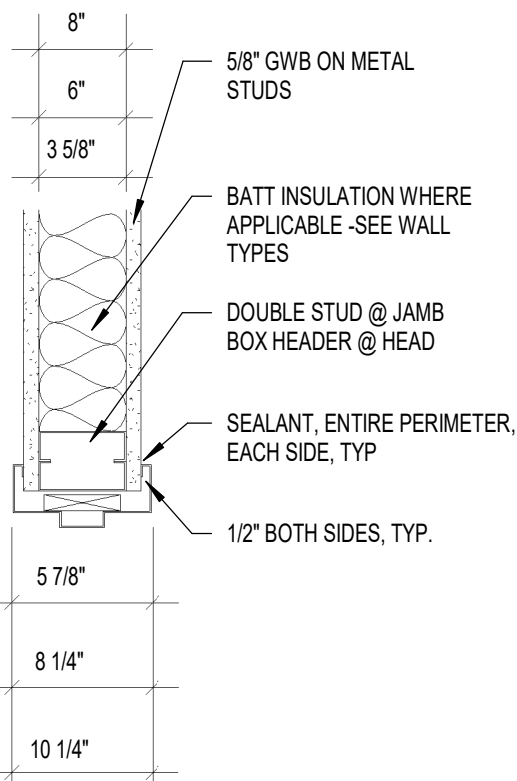
4
A6.1 HEAD - INT - H.M.
1 1/2" = 1'-0"



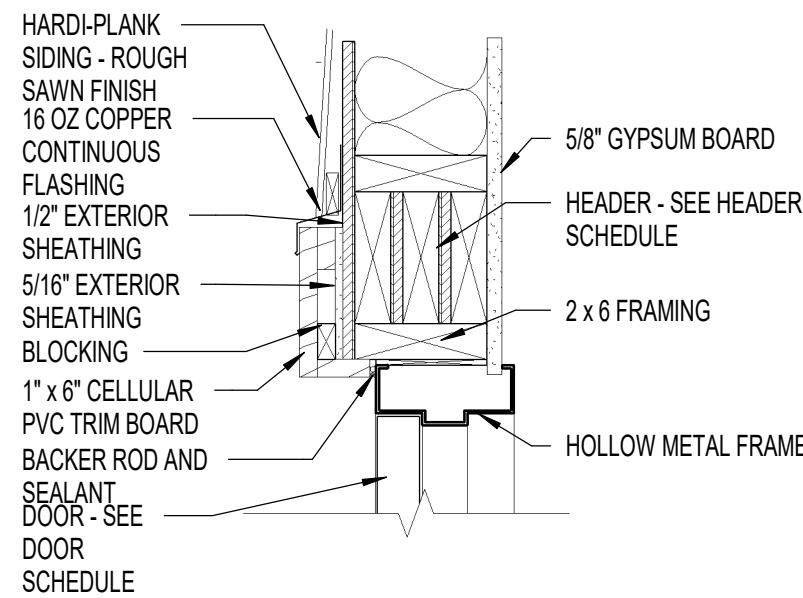
2
A6.1 HM HEAD @ STUD WALL
1 1/2" = 1'-0"



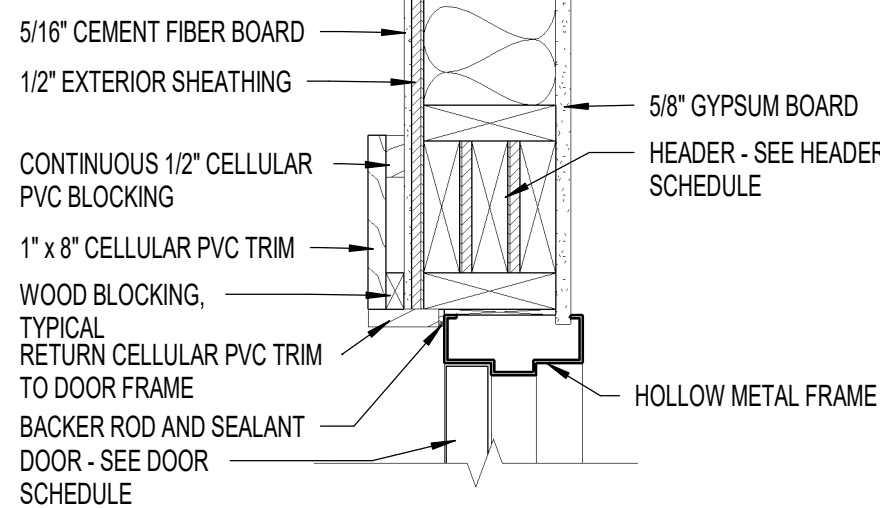
5
A6.1 JAMB - INT - H.M. AT SIDELIGHT
1 1/2" = 1'-0"



3
A6.1 JAMB @ STUD WALL - H.M.
1 1/2" = 1'-0"

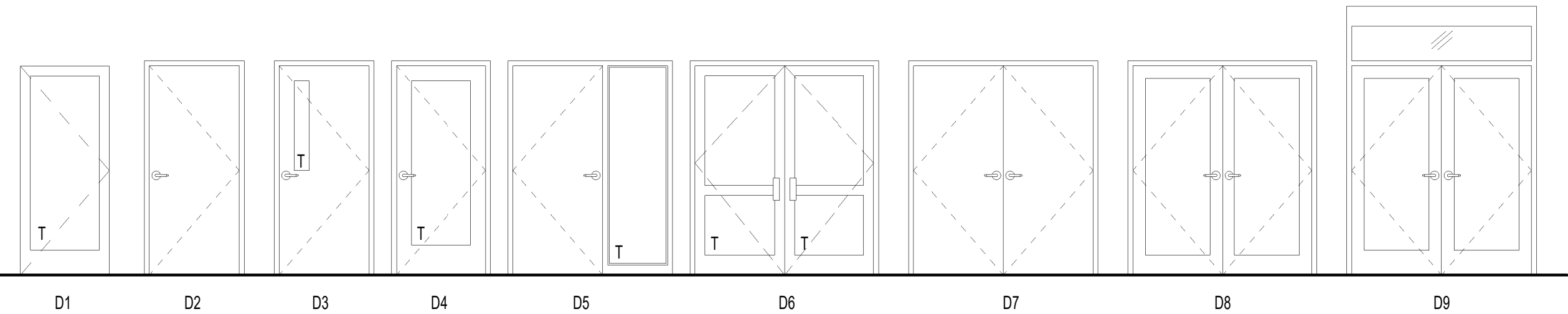


1
A6.1 HEAD - EXT - H.M.
1 1/2" = 1'-0"



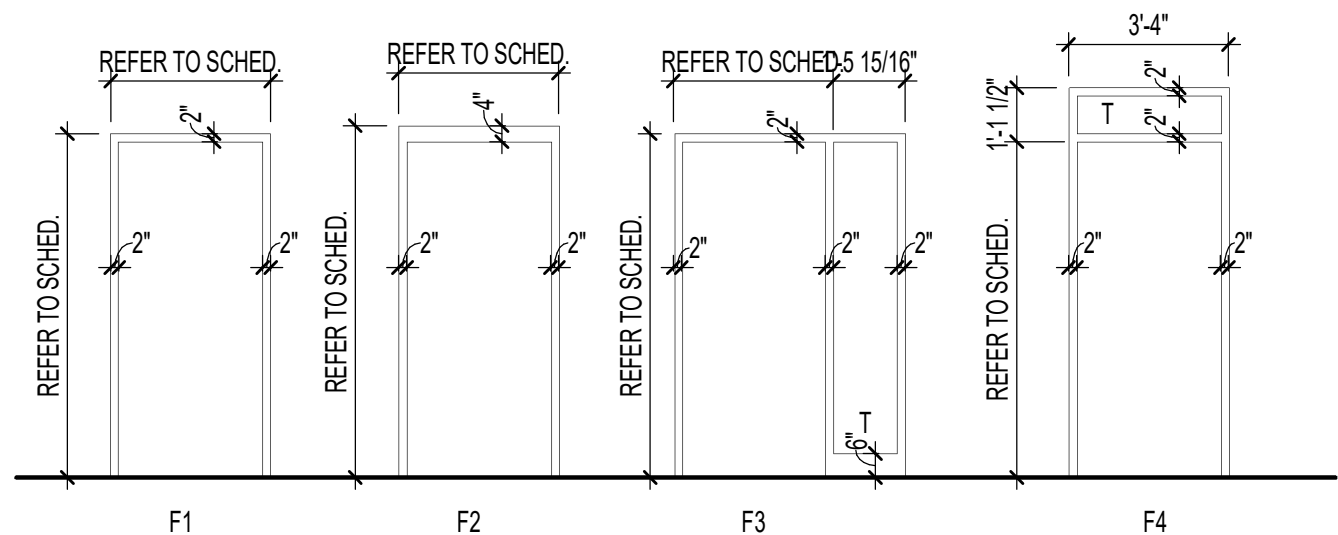
DOOR SCHEDULE

DOOR NUMBER	SIZE			DOOR					FRAME				REMARKS
	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLAZING	ELEVATION	RATING	MATERIAL	FINISH	ELEVATION	RATING	
101A	3'-0"	6'-10 3/4"	1 3/4"	ALUMINUM	PREFINISHED	5/8" INSULATING TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S4	N/A	
101B	3'-0"	6'-10 3/4"	1 3/4"	ALUMINUM	PREFINISHED	5/8" INSULATING TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S4	N/A	
102	3'-0"	7'-0"	1 3/4"	ALUMINUM	PREFINISHED	5/8" INSULATING TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S8	N/A	
103	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	1/4" TEMPERED	D3	N/A	H.M.	PAINTED	F1	N/A	
104	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	1/4" TEMPERED	D3	N/A	H.M.	PAINTED	F1	N/A	
104A	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
106	2'-9"	6'-11 3/4"	0"	H.M.	PAINTED	5/8" INSULATING TEMPERED	D9	N/A	H.M.	PAINTED	F2	N/A	
106A	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
107	Z-11 249/256"	6'-11 7/8"	1 3/4"	ALUMINUM	PREFINISHED	1/4" TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S6	N/A	
108	Z-11 249/256"	6'-11 7/8"	1 3/4"	ALUMINUM	PREFINISHED	1/4" TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S6	N/A	
109	Z-11"	6'-11 7/8"	1 3/4"	ALUMINUM	PREFINISHED	1/4" TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S6	N/A	
110A	3'-0"	6'-10 3/4"	1 3/4"	ALUMINUM	PREFINISHED	5/8" INSULATING TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S5	N/A	
110B	3'-0"	6'-10 3/4"	1 3/4"	ALUMINUM	PREFINISHED	5/8" INSULATING TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S5	N/A	
111A	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2		H.M.	PAINTED	F1	N/A	
111B	3'-0"	7'-0"	1 3/4"	ALUMINUM	PREFINISHED	5/8" INSULATING TEMPERED		N/A			S9	N/A	
112	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
113	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
115	3'-0"	7'-0"	1 3/4"										
115A	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
115B	3'-0"	6'-10 3/4"	1 3/4"					N/A					
116	3'-0"	7'-0"	1 3/4"					N/A					
118	2'-9"	6'-11 3/4"	0"	H.M.	PAINTED	5/8" INSULATING TEMPERED	D9	N/A	H.M.	PAINTED	F2	N/A	
119	3'-0"	7'-0"	1 3/4"					N/A					
120	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
121	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
122	3'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F1	N/A	
123	3'-0"	6'-11 7/8"	1 3/4"	ALUMINUM	PREFINISHED	5/8" INSULATING TEMPERED	D1	N/A	ALUMINUM	PREFINISHED	S10	N/A	
123A	3'-0"	7'-0"	1 3/4"					N/A					
123B	3'-0"	7'-0"	1 3/4"					N/A					
124	3'-0"	7'-0"	1 3/4"	H.M.	PAINTED	N/A	D2	N/A	H.M.	PAINTED	F2	N/A	



DOOR - ELEVATIONS

1/4" = 1'-0"



FRAME - ELEVATIONS

1/4" = 1'-0"

GENERAL DOOR NOTES

- ALL HARDWARE SHALL MEET ALL APPLICABLE HANDICAP CODES.
- TEMPERED GLAZING SHALL BE USED AS NOTED AND AS REQUIRED BY CODE.
- EXTERIOR DOOR GLAZING SHALL BE 5/8" TEMPERED INSULATING, TYPICAL, U.N.O.
- EXTERIOR DOOR GLAZING SHALL BE TINTED TO MATCH STOREFRONT GLAZING.
- FURNISH AND INSTALL DOOR CLOSERS AS SCHEDULED IN COMPLIANCE WITH ALL APPLICABLE CODES.
- ALL HOLLOW METAL DOOR FRAMES SHALL BE FULLY WELDED TYPE, FACTORY PRIMED, AND FIELD PAINTED. COLOR PER ARCHITECT. INSTALL PER MANUFACTURER FOR PROPER INSTALLATION AND OPERATION FOR SPECIFIC APPLICATIONS.
- ALL WOOD DOORS SHALL BE STAIN GRADE, SPECIES, AND COLOR PER ARCHITECT.
- ALL ALUMINUM STOREFRONT AND DOORS SHALL BE PREFINISHED COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
- DOOR THRESHOLDS SHALL BE 1/2" MAXIMUM HEIGHT.
- ALL EXISTING DOORS, ASSOCIATED DOOR HARDWARE, AND FRAMES TO REMAIN SHALL BE ACCESSED PRIOR TO RENOVATION. ALL EXISTING DOORS, DOOR HARDWARE, AND FRAMES TO REMAIN SHALL BE CLEANED & REFURBISHED TO MATCH PROJECT STANDARDS.

NEW CONSTRUCTION FOR:

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GENERAL NOTE:
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Revisions
Description Date

Date
11/15/2024

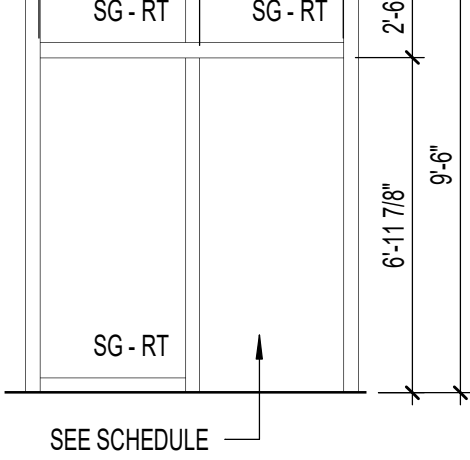
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Sheet No.
A6.1

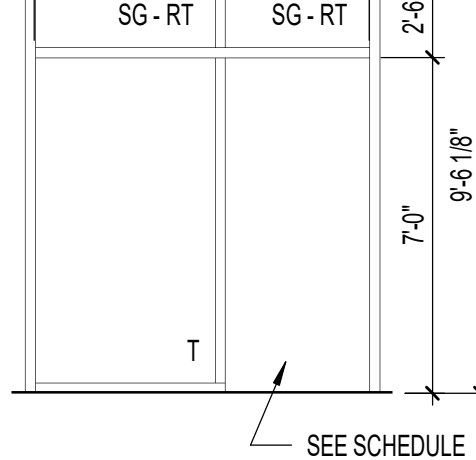
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DG

Sheet Title
DOOR SCHEDULE & DETAILS



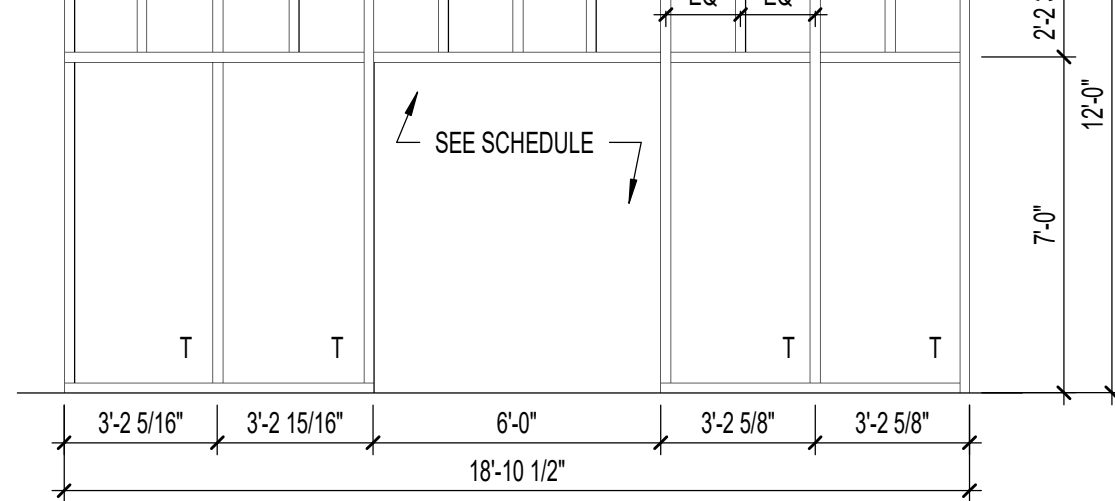
S7

1/4" = 1'-0"



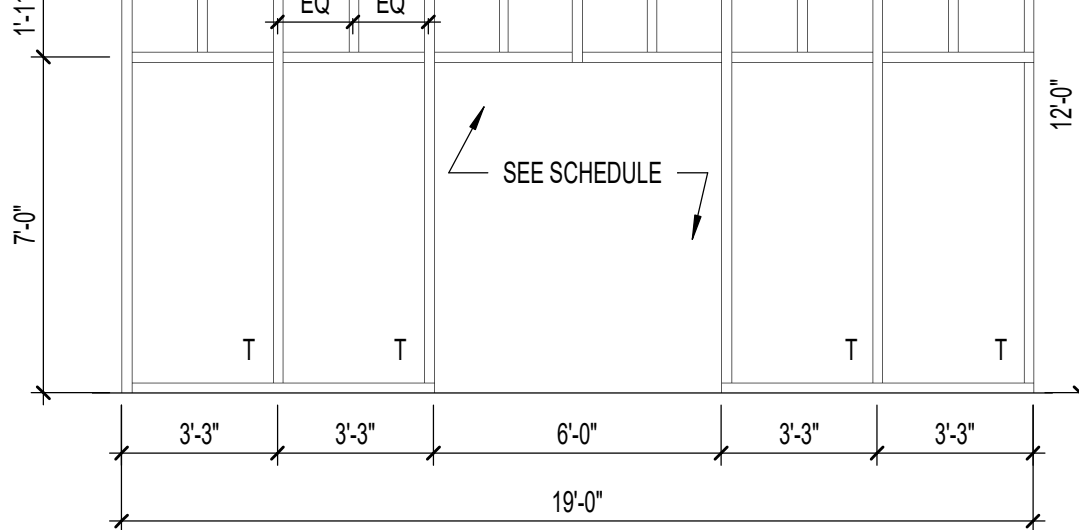
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1/4" = 1'-0"



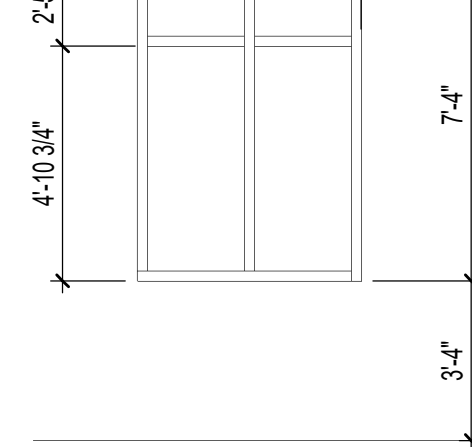
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1/4" = 1'-0"



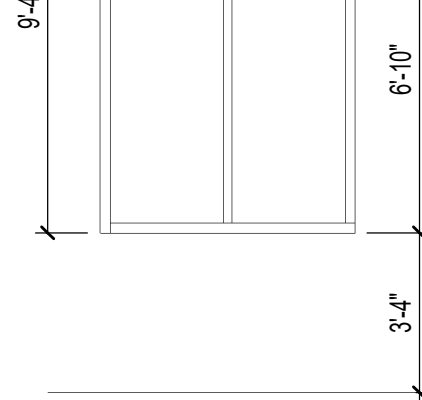
S4

1/4" = 1'-0"



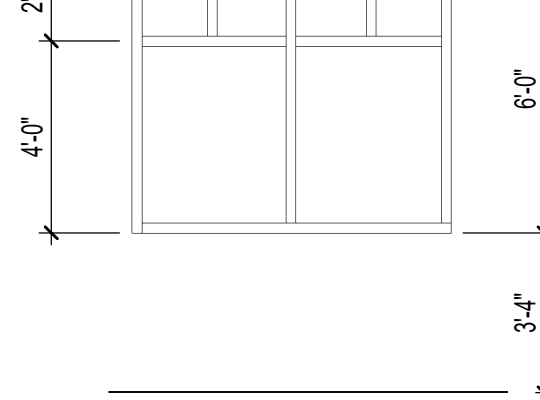
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1/4" = 1'-0"



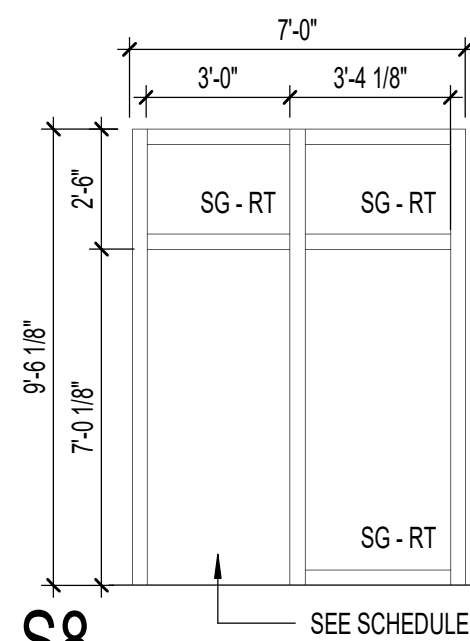
S2

1/4" = 1'-0"



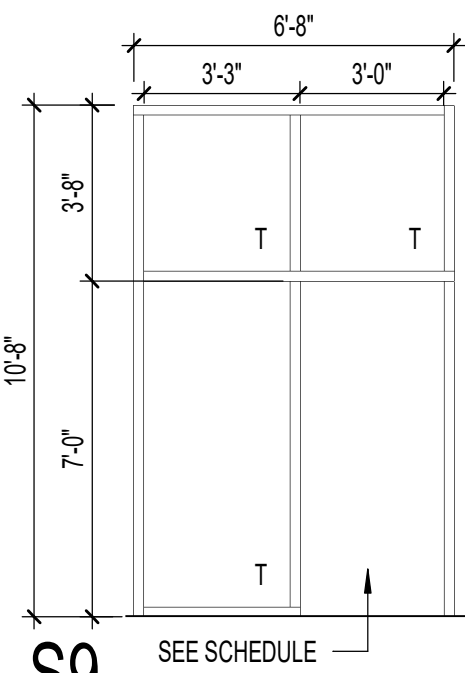
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1/4" = 1'-0"



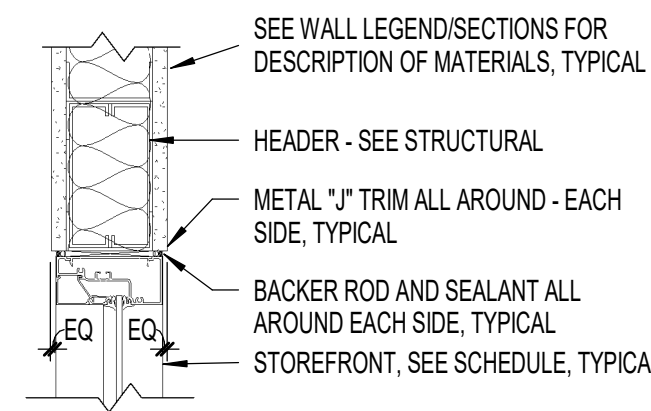
S8

1/4" = 1'-0"



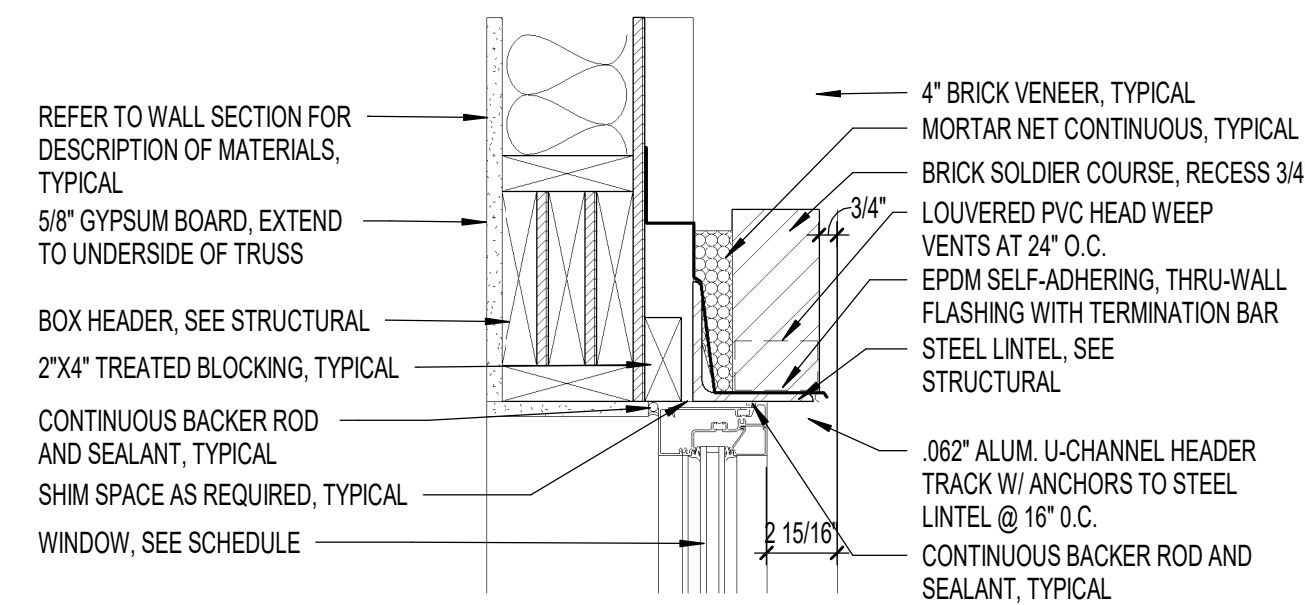
S9

1/4" = 1'-0"



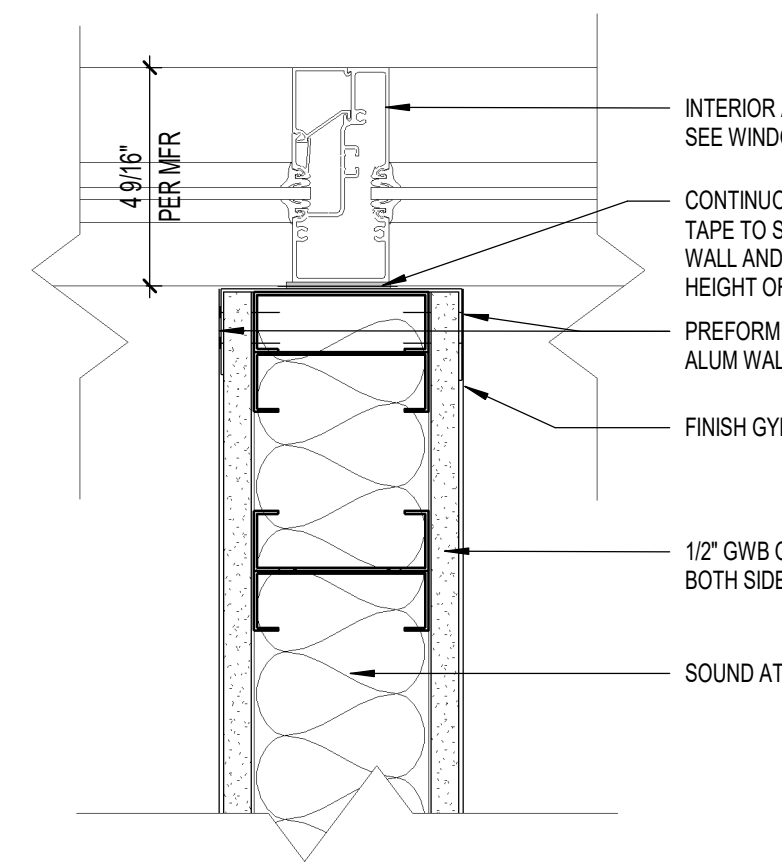
8 WINDOW - HEAD - INT

1 1/2" = 1'-0"



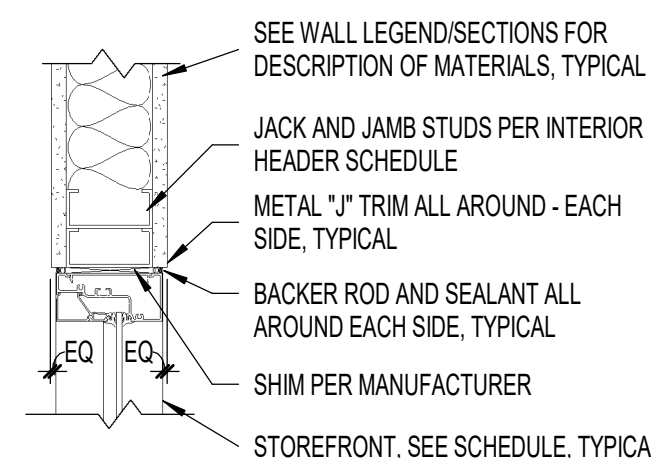
7 HEAD - EXT

1 1/2" = 1'-0"



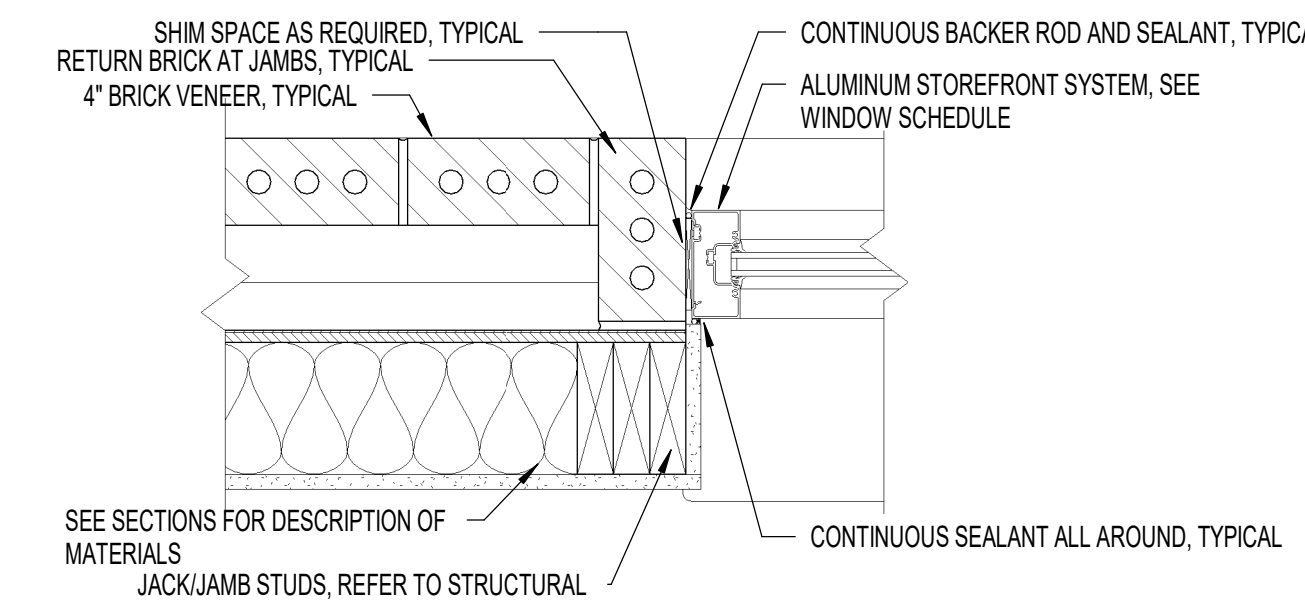
6 INTERIOR WALL TO SF DETAIL

3" = 1'-0"



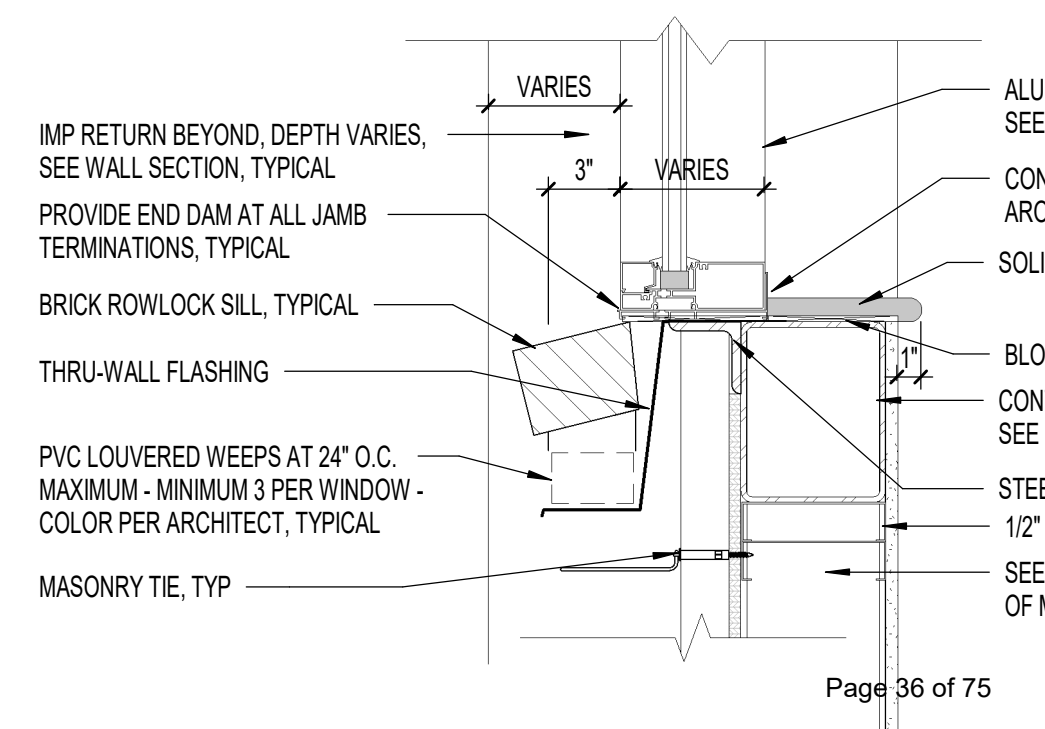
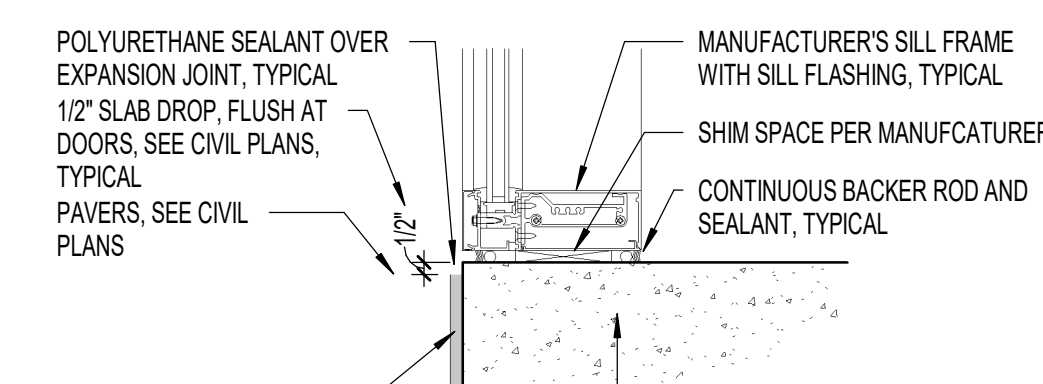
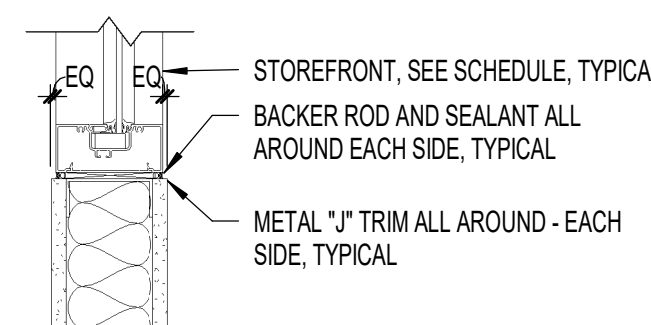
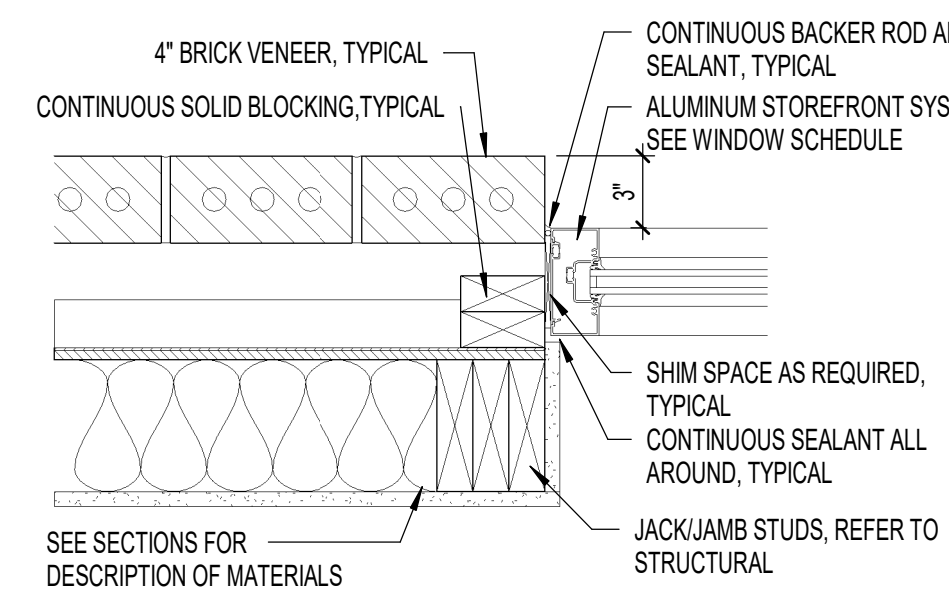
5 WINDOW - JAMB - INT

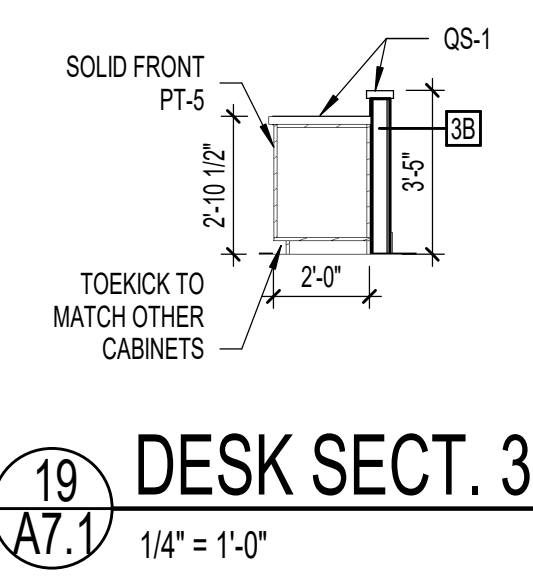
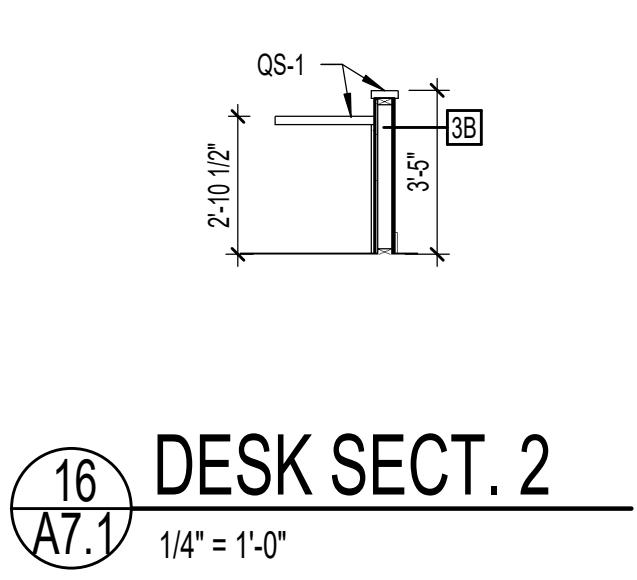
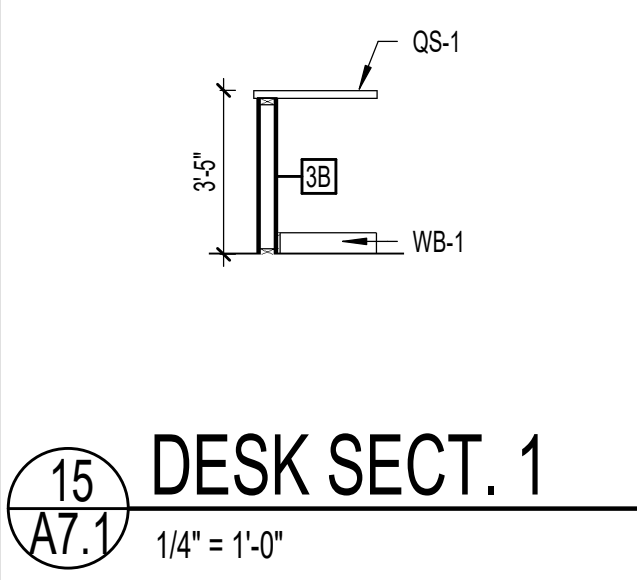
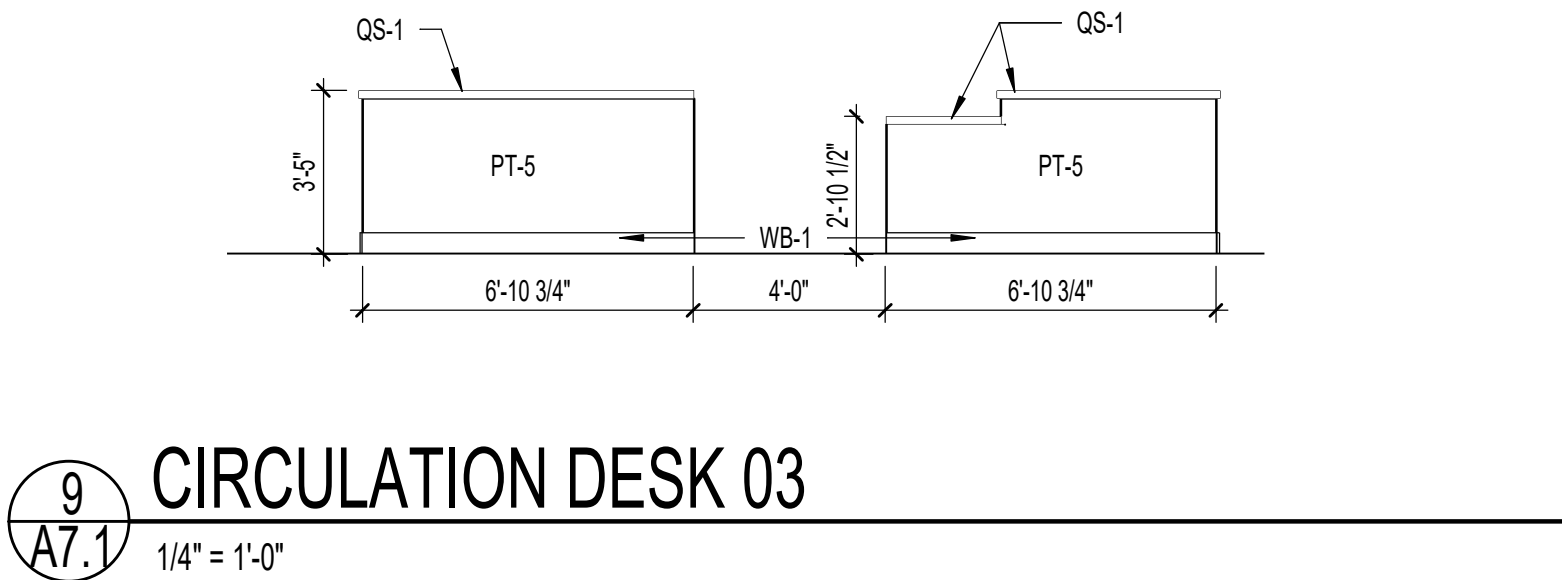
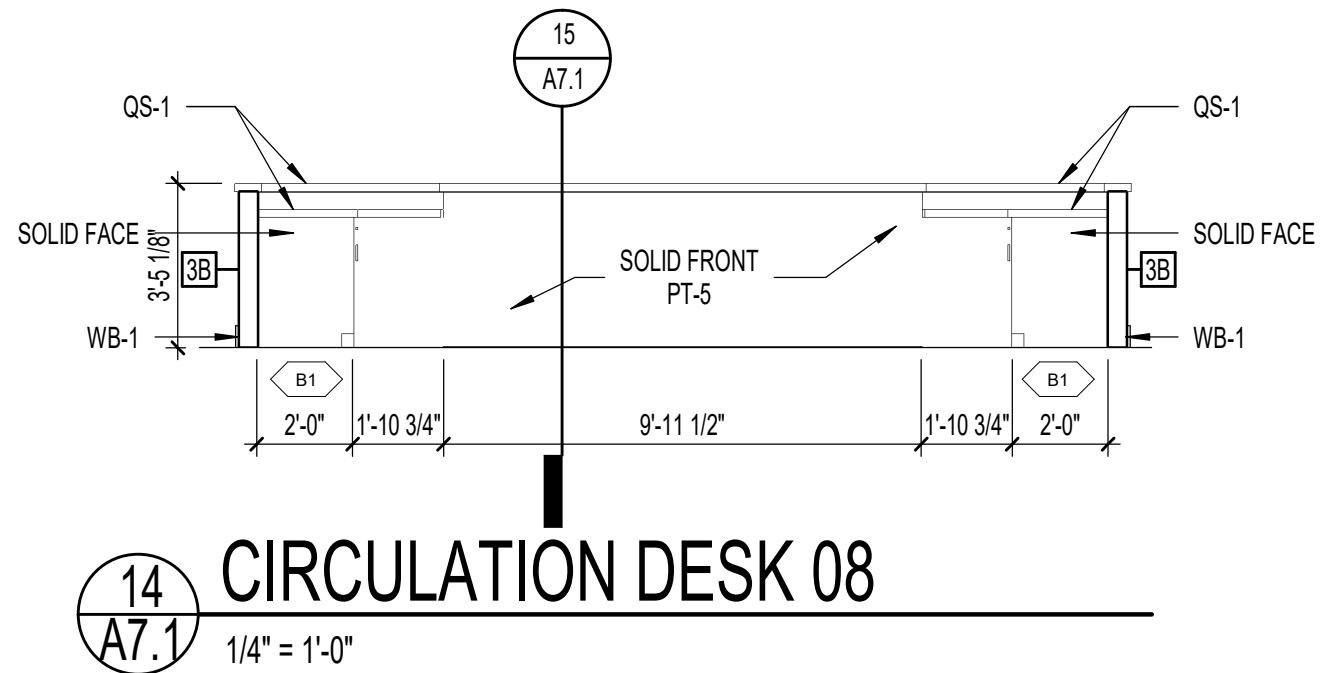
1 1/2" = 1'-0"



4 JAMB - EXT

1 1/2" = 1'-0"





CABINETY NOTES

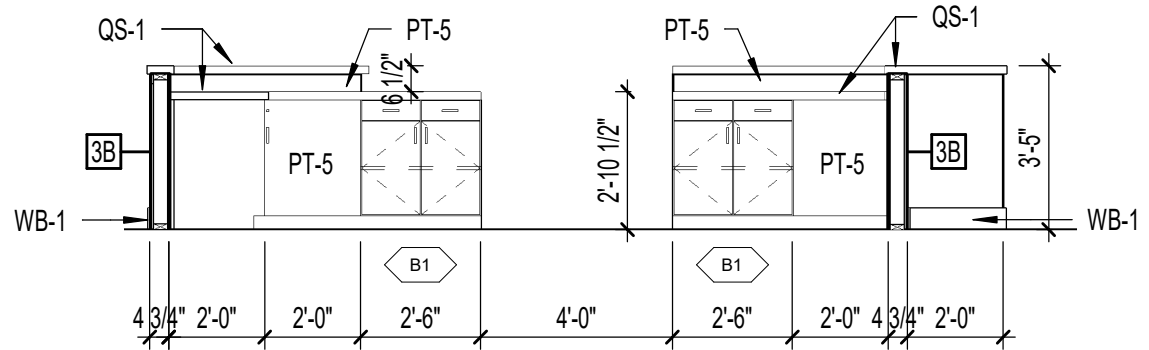
1. PROVIDE PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES INCLUDING DOOR AND DRAWER EDGES. COLOR AND PATTERN AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
2. PROVIDE HIGH PRESSURE PLASTIC LAMINATE FINISH ON ALL COUNTER TOPS UNLESS NOTED OTHERWISE. COLOR AND PATTERN AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
3. PROVIDE MELAMINE FINISH ON ALL INTERIOR SURFACES AS SPECIFIED. COLOR AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
4. PROVIDE STANDARD "WIRE" DOOR AND DRAWER PULLS, TYPICAL.
5. PROVIDE CONCEALED HINGES FOR ALL DOORS, TYPICAL.
6. PROVIDE FULL EXTENSION SLIDES ON ALL DRAWERS.
7. PROVIDE 3/4" MELAMINE FINISH ADJUSTABLE SHELVING FOR ALL UPPER AND BASE CABINETS AS INDICATED, TYPICAL. PRE DRILL HOLES AT 1 1/4" O.C. AND PROVIDE METAL SHELF CLIPS.
8. PROVIDE 3/4" THICK DRAWER AND DOOR FACES, TYPICAL.
9. FIELD VERIFY ALL DIMENSIONS, SQUARE AND PLUMB OF WALLS TO ENSURE PROPER FIT OF ALL CABINETRY, TYPICAL.
10. SUBMIT SHOP DRAWINGS PER SPECIFICATIONS OF ALL CABINETRY AND RELATED ITEMS FOR REVIEW PRIOR TO FABRICATION, TYPICAL.
11. FURNISH AND INSTALL ALL BLOCKING AS REQUIRED FOR PROPER INSTALLATION OF ALL CABINETRY, COORDINATE INSTALLATION OF BLOCKING WITH CABINET SUPPLIER.
12. ALL APPLICANCES WILL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. VERIFY APPLIANCE SIZES WITH MANUFACTURER'S CUT SHEETS. CUT SHEETS SHALL BE PROVIDED BY THE OWNER.

CASEWORK NOTES & LEGENDS

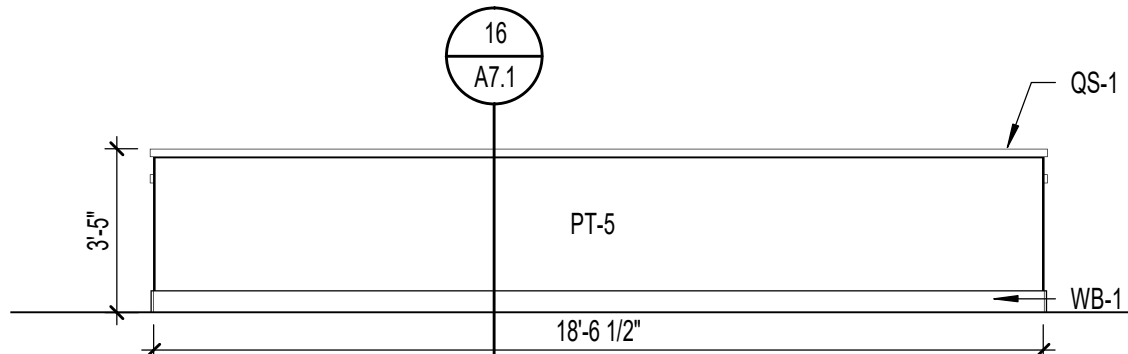
MARK	DESCRIPTION
B1	2'-0" DEEP BASE CABINET; TWO HINGED DOORS AND TWO 6" HIGH DRAWERS AND ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
B2	2'-0" DEEP BASE CABINET; TWO DRAWERS, ONE FILE DRAWER. HEIGHT/WIDTH VARIES.
B3	2'-0" DEEP BASE CABINET; ONE HINGED DOOR WITH ONE ADJUSTABLE SHELF, ONE 6" HIGH DRAWER. HEIGHT/WIDTH VARIES.
B4	2'-0" SINK CABINET; TWO HINGED DOORS WITH ATTACHED BASEBOARD. SEE SECTION THROUGH TYPICAL ADA SINK CABINETRY, DETAIL.
B5	2'-0" DEEP BASE CABINET; FOUR DRAWERS. HEIGHT/WIDTH VARIES.
W1	1'-0" DEEP WALL CABINET; TWO HINGED DOORS & TWO ADJUSTABLE SHELVES. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES. FOR HEIGHTS OVER 4'-0" INCREASE TO THREE ADJUSTABLE SHELVES.
W2	1'-0" DEEP WALL CABINET; TWO HINGED DOORS & ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
W3	1'-0" DEEP OPEN SHELVING; TWO ADJUSTABLE SHELVES. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES. FOR HEIGHTS OVER 4'-0" INCREASE TO THREE ADJUSTABLE SHELVES.
T3	2'-0" DEEP, 7'-0" TALL STORAGE CABINET; ONE HINGED DOOR WITH FIVE ADJUSTABLE SHELVES. WIDTH VARIES.

1. ALL CASEWORK SHOWN IS MANUFACTURED PLASTIC LAMINATE CASEWORK, TYPICAL UNLESS NOTED OTHERWISE.
2. PROVIDE SUPPORT BRACKETS AS REQUIRED/RECOMMENDED BY MANUFACTURER.
3. GC TO PROVIDE ALL BLOCKING REQUIRED BY CASEWORK MANUFACTURER.
4. PROVIDE LOCKS ON CASEWORK WHERE NOTED IN ELEVATIONS.

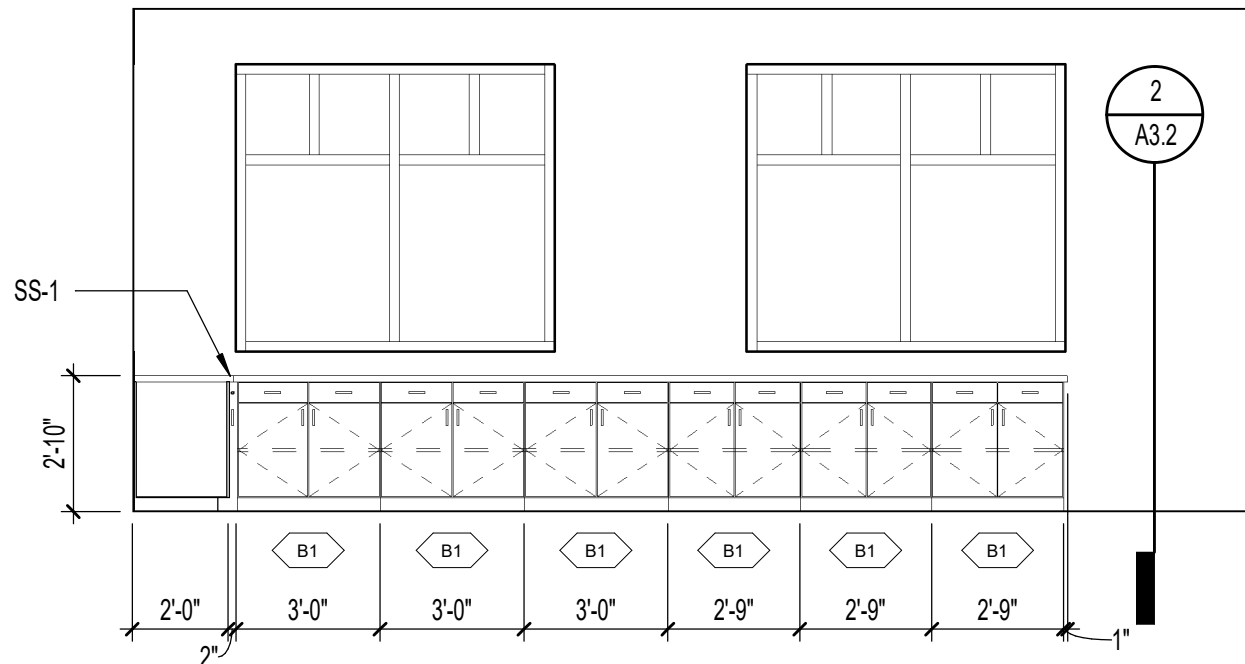
13 CIRCULATION DESK 07
1/4" = 1'-0"



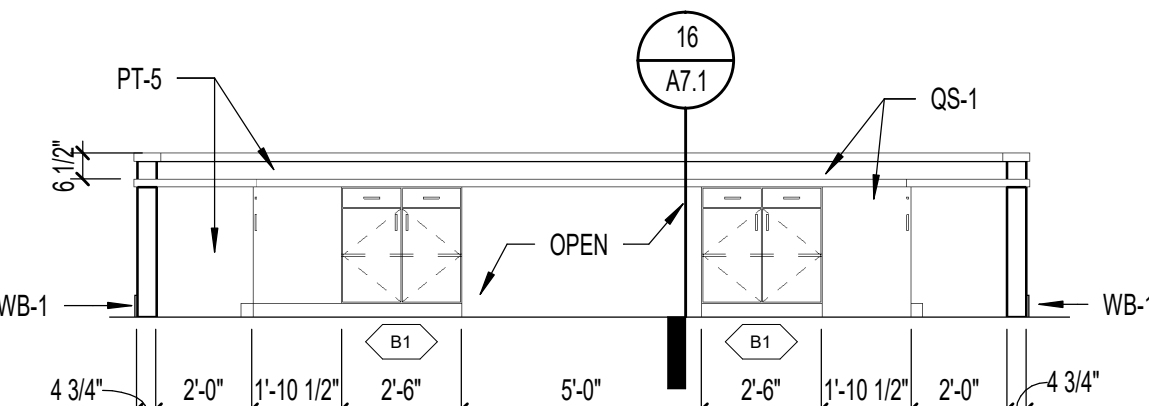
8 CIRCULATION DESK 02
1/4" = 1'-0"



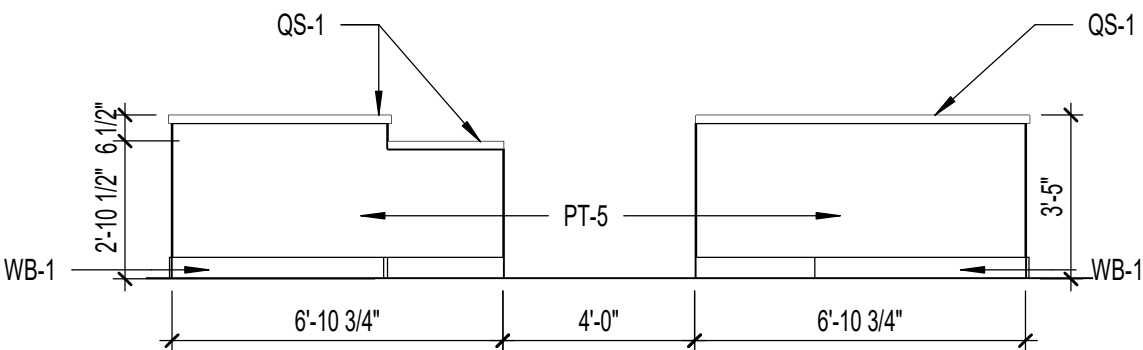
4 WORK 102 - NORTH
1/4" = 1'-0"



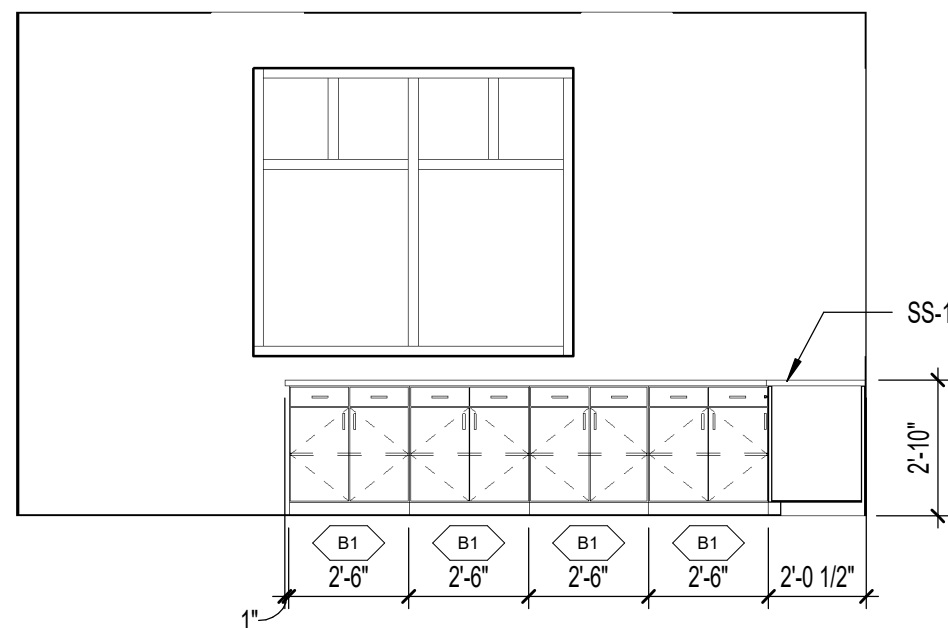
12 CIRCULATION DESK 06
1/4" = 1'-0"



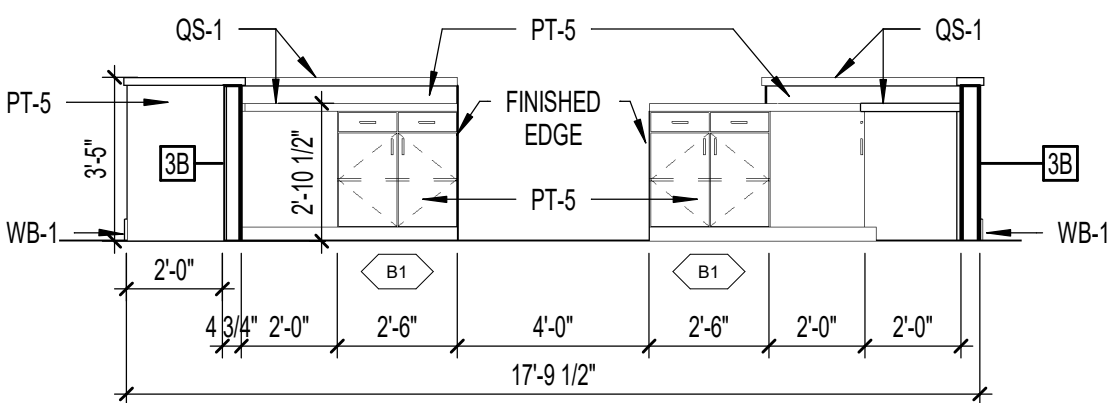
7 CIRCULATION DESK 01
1/4" = 1'-0"



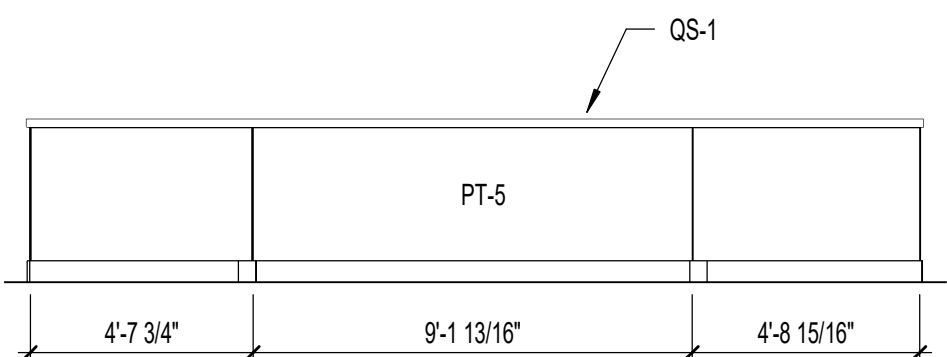
5 WORK 102 - WEST
1/4" = 1'-0"



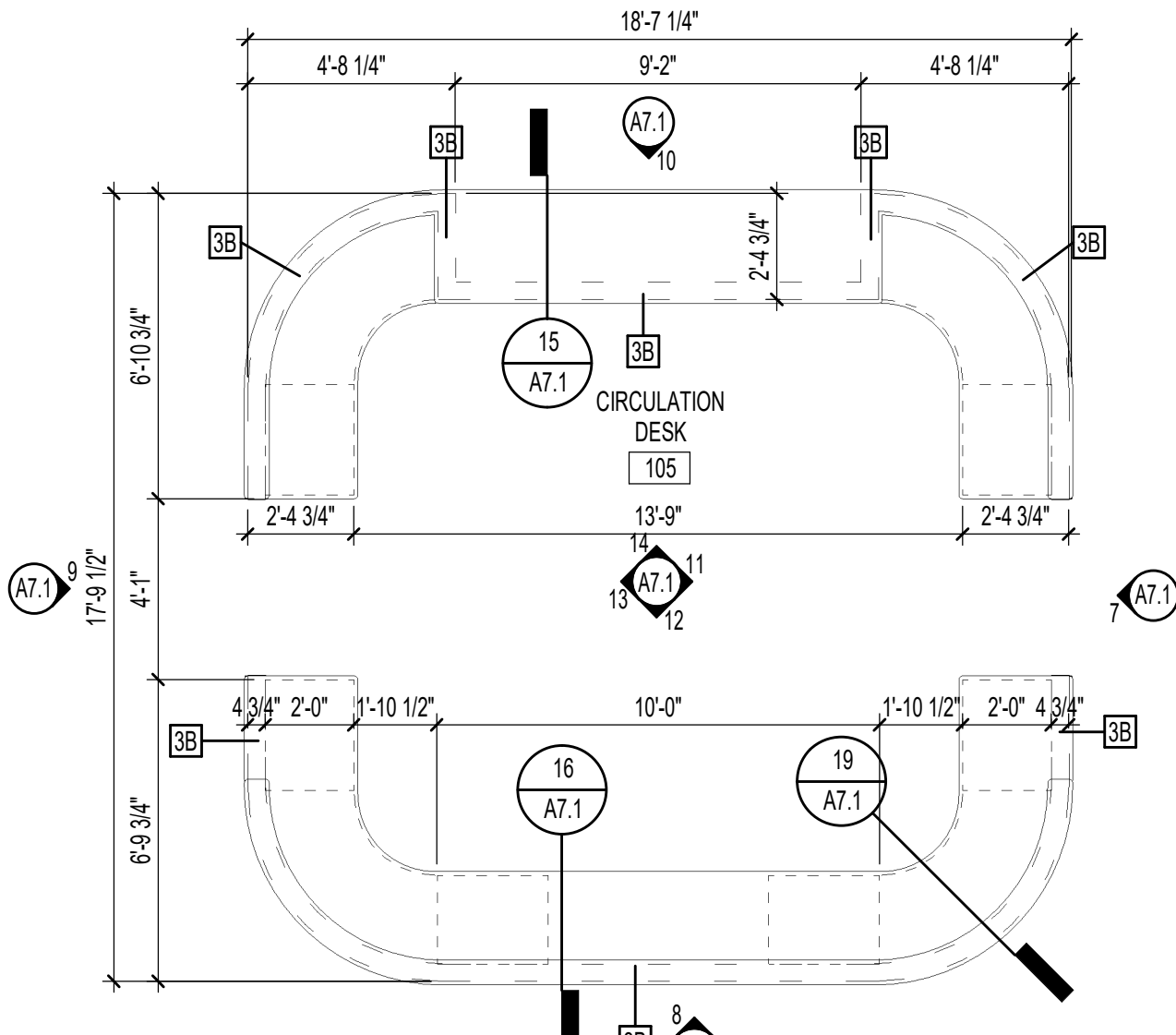
11 CIRCULATION DESK 05
1/4" = 1'-0"



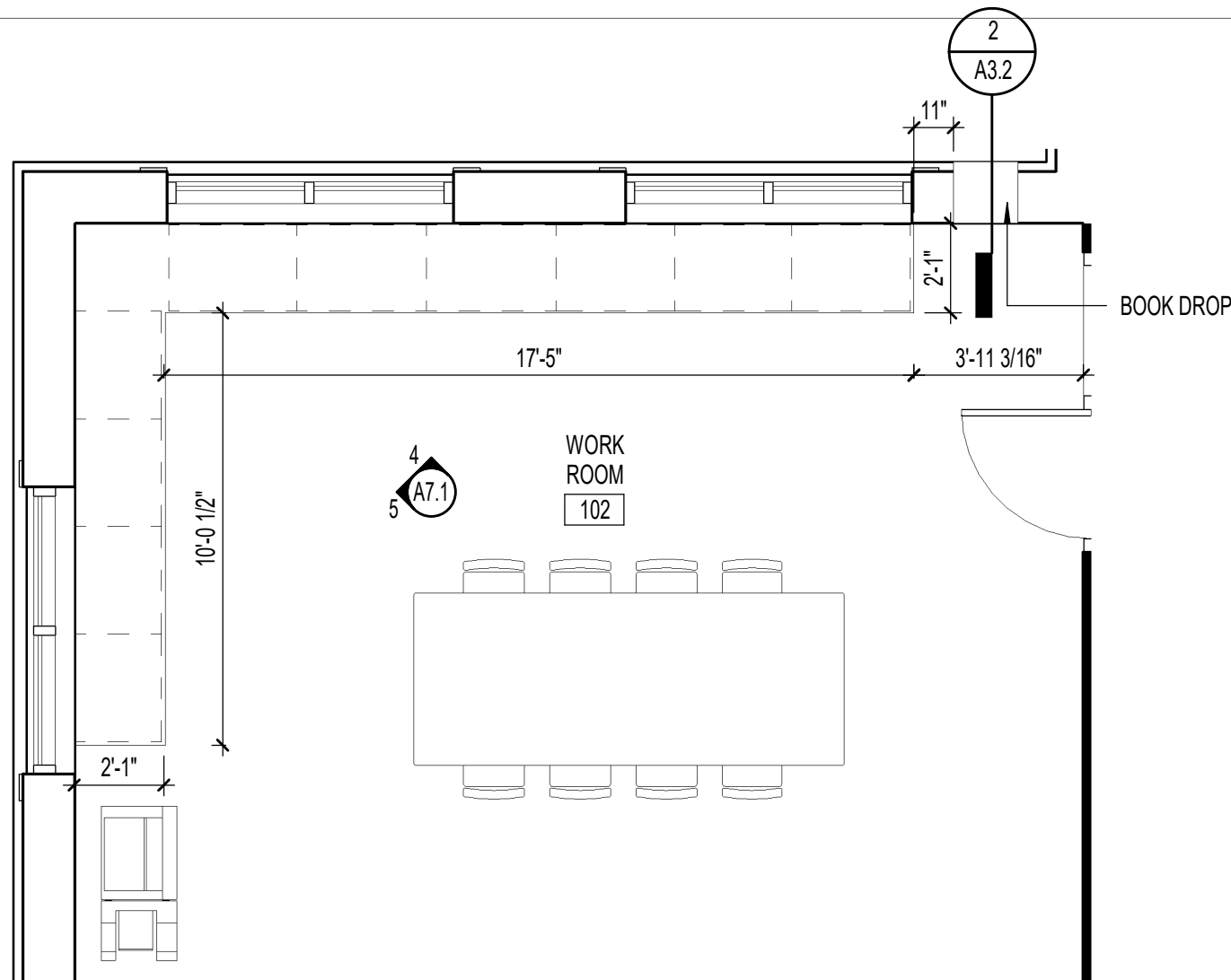
10 CIRCULATION DESK 04
1/4" = 1'-0"



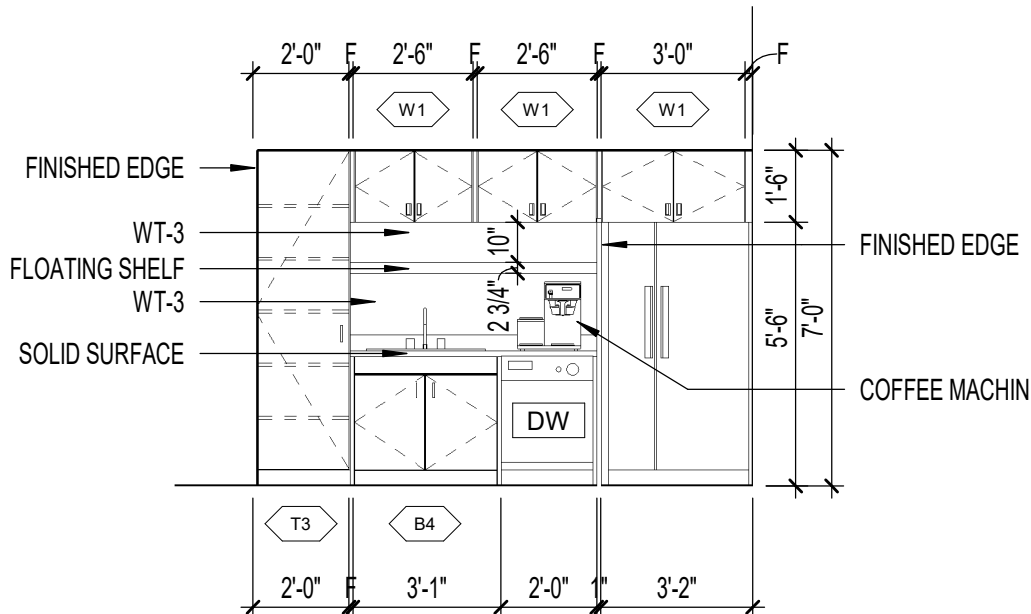
6 CIRCULATION DESK
1/4" = 1'-0"



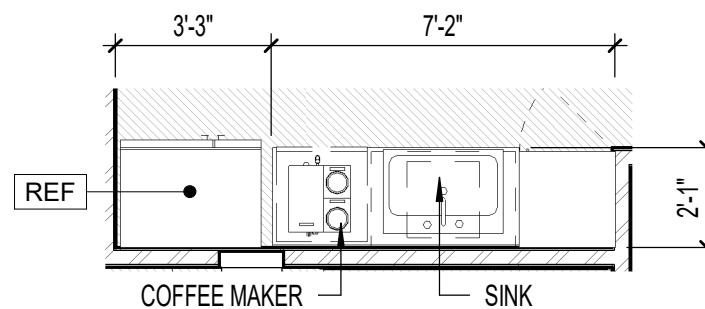
3 WORK ROOM 102
1/4" = 1'-0"



1 BREAK 111 - CASEWORK
1/4" = 1'-0"



2 BREAK 111
1/4" = 1'-0"



NEW CONSTRUCTION FOR:

GIVEN MEMORIAL LIBRARY

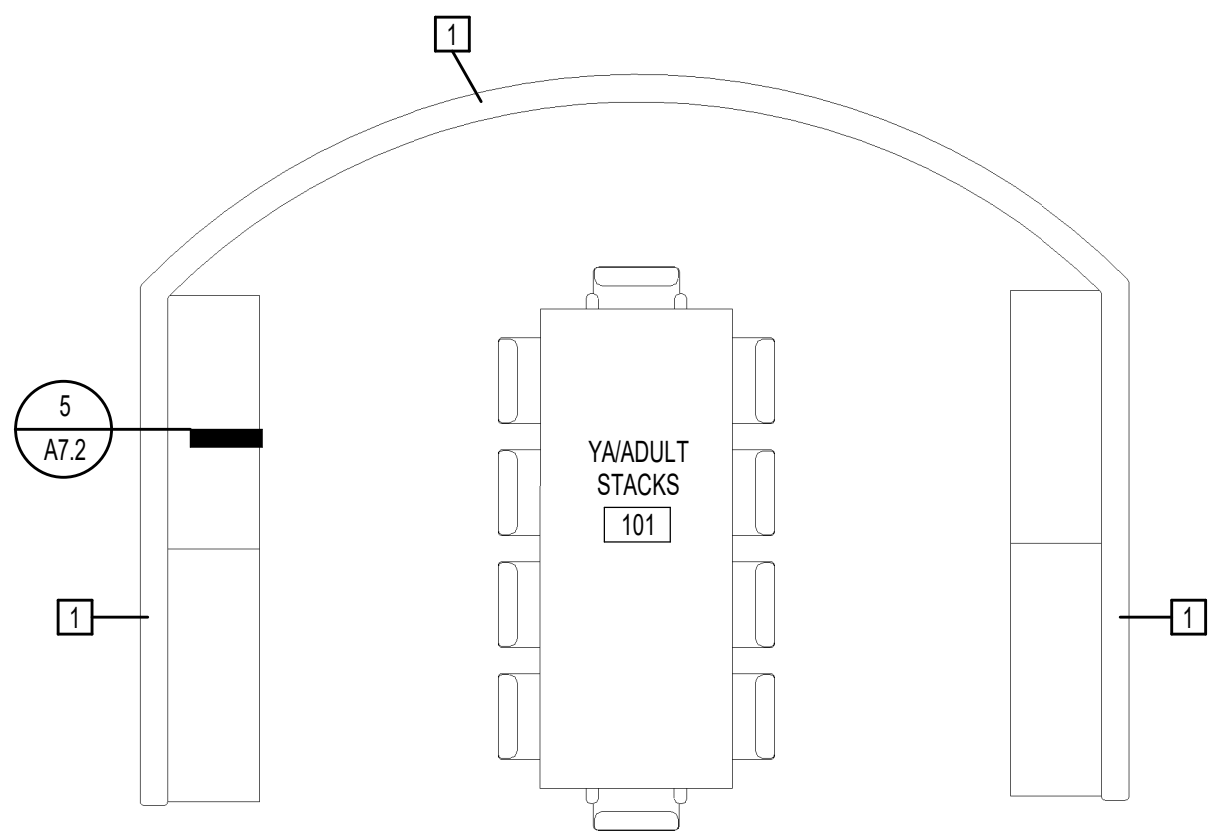
VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

OAKLEY
COLLIER
ARCHITECTS
OCA

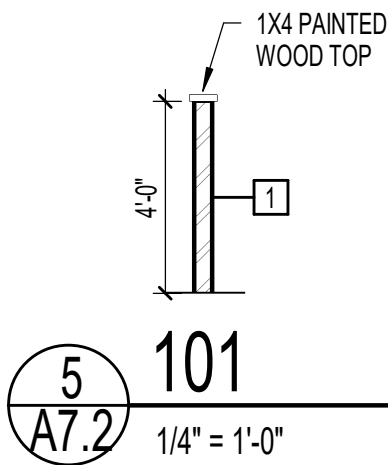
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
303 W. Nott Street, Raleigh, NC 27601

CD
REVIEW SET

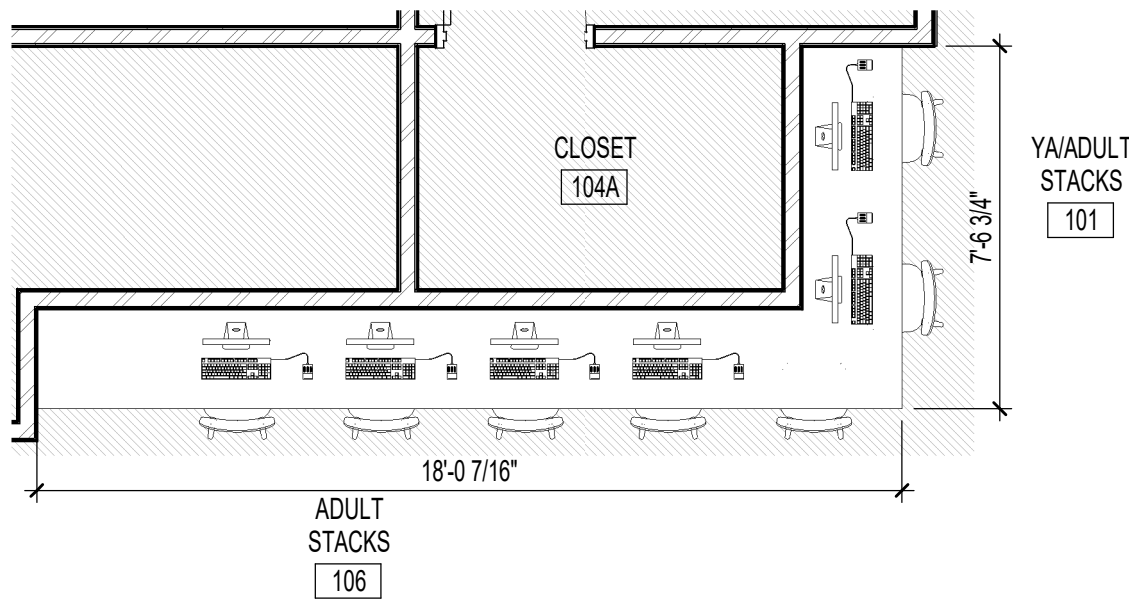
GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions.		
Revisions	Description	Date
#		
Date	Project No.	
11/15/2024	22038	
Drawn By	Sheet No.	
RL	A7.1	
Checked By		
JG		
Sheet Title CASEWORK ELEVATIONS		



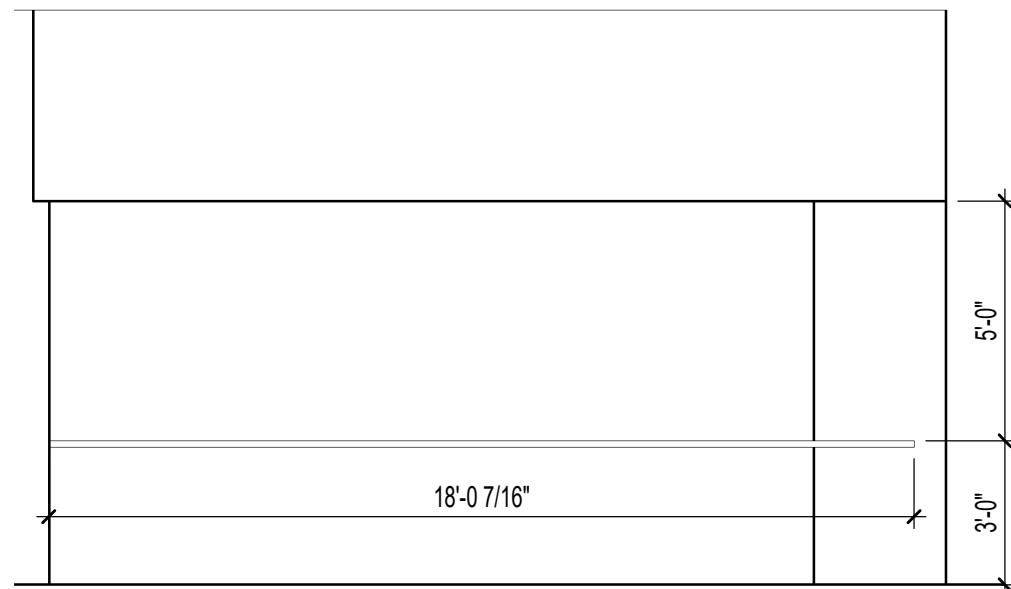
4
A7.2
STACKS 101
1/4" = 1'-0"



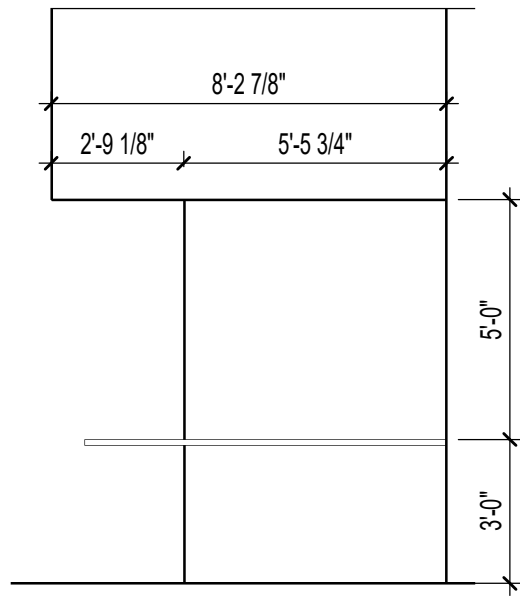
5
A7.2
101
1/4" = 1'-0"



1
A7.2
COMPUTER NOOK 106/105/101
1/4" = 1'-0"



2
A7.2
COMPUTER NOOK ELEV. 1
1/4" = 1'-0"



3
A7.2
COMPUTER NOOK ELEV. 2
1/4" = 1'-0"

CABINETRY NOTES

1. PROVIDE PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES INCLUDING DOOR AND DRAWER EDGES. COLOR AND PATTERN AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
2. PROVIDE HIGH PRESSURE PLASTIC LAMINATE FINISH ON ALL COUNTER TOPS UNLESS NOTED OTHERWISE. COLOR AND PATTERN AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
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CASEWORK NOTES & LEGENDS

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B1	2'-0" DEEP BASE CABINET; TWO HINGED DOORS AND TWO 6" HIGH DRAWERS AND ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
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NEW CONSTRUCTION FOR:

GIVEN MEMORIAL LIBRARY

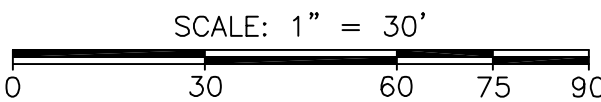
VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

CD
REVIEW SET

GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions.		
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11/15/2024	22038	
Drawn By	Sheet No.	
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OAKLEY
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ARCHITECTS
OCA

109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
303 W. Martin Street, Raleigh, NC 27601



BLN=C-1874



Sheet Title
GRADING PLAN

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

GENERAL	
1.	THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS (IF PROVIDED). SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.
2.	DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.
3.	WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE DRAWINGS.
4.	WHERE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS OCCURS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
5.	IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE DRAWINGS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION IN WRITING PRIOR TO THE SCHEDULED BID DATE.
6.	THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
7.	THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
8.	SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.

CONTRACTOR RESPONSIBILITY	
1.	THE STRUCTURAL DRAWINGS AND SPECIFICATIONS (IF PROVIDED) REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.
2.	THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS UNTIL THE STRUCTURAL WORK IS COMPLETE.
3.	ALL INTERIOR HANGING COMPONENTS (CEILING, DUCTWORK, PIPING, EQUIPMENT, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR TO ENSURE LOADS APPLIED TO THE STRUCTURE DO NOT EXCEED THE LIMITS SHOWN IN THE DESIGN CRITERIA OR ELSEWHERE IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE CONNECTIONS TO THE SUPPORTING STRUCTURAL ELEMENTS AND THE ADEQUACY OF THE HANGING SYSTEM TO SUPPORT THE COMPONENTS.
4.	ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT FRAME TO THE UNDERSIDE OF STRUCTURE ABOVE, SHALL BE DETAILED AND FRAMED BY THE CONTRACTOR TO ALLOW FOR DEFLECTION OF THE STRUCTURAL FRAMING. SEE THE DESIGN CRITERIA FOR THE LIMITS USED IN THE DESIGN.
5.	PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL REQUIRED OPENINGS. SUPPORT FRAMING FOR ALL OPENINGS SHALL BE PROVIDED AND INSTALLED PER TYPICAL DETAILS HEREIN WHETHER SHOWN ON THESE DRAWINGS OR NOT. THE CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUBCONTRACTORS AND THEIR APPROVED SHOP DRAWINGS PRIOR TO CONSTRUCTION.
6.	ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS NOTED IN THE DESIGN CRITERIA.
7.	ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13, "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.
8.	SEVERAL ITEMS NOTED HEREIN (WHERE CHECKED) AND IN THE SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVIDUAL NOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: ☐ SPECIALTY FOUNDATION SYSTEM ☐ POST-TENSIONED CONCRETE (LAYOUT AND STRESSING) ☐ STRUCTURAL PRECAST CONCRETE ☐ ARCHITECTURAL PRECAST CONCRETE ☐ STRUCTURAL STEEL (CONNECTIONS) ☐ PREFABRICATED METAL BUILDING ☐ STEEL STAIRS AND RAILINGS ☐ STEEL JOISTS AND STEEL JOIST GIRDERS ☐ ROOF ANCHORS ☐ NON-LOAD BEARING COLD-FORMED STEEL ☐ LOAD BEARING COLD-FORMED STEEL ☒ LIGHT GAUGE COLD-FORMED STEEL TRUSSES ☐ PREFABRICATED WOOD TRUSSES ☐ ANCHOR TIE-DOWN SYSTEM FOR WOOD SHEAR WALLS
9.	THIS PROJECT REQUIRES SPECIAL INSPECTIONS AS DESCRIBED IN CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. SEE STATEMENT OF SPECIAL INSPECTIONS FOR REQUIRED INSPECTIONS. CONTRACTOR SHALL COORDINATE WITH SPECIAL INSPECTOR ALL WORK REQUIRING SPECIAL INSPECTIONS AND TESTING.

DESIGN CRITERIA

1. PROJECT LOCATION: 150 CHEROKEE RD | PINEHURST, NC 28374

2. APPLICABLE CODES:

2018 NORTH CAROLINA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH REVISIONS)

MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-10)

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)

BUILDING CODE REQUIREMENTS/SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530/530.1-13)

SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10)

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2015)

NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-12)

3. RISK CATEGORY: III

4. DEFLECTION:

ROOF FRAMING L/180 FOR TOTAL LOADING (2.00" FOR 30' SPAN), L/240 FOR LIVE LOADING (1.50" FOR 30' SPAN)

MEMBERS SUPPORTING BRICK L/600 FOR LIVE LOADING (0.60" FOR 30' SPAN)

WIND, H/400 (USING V = 0 MPH AND MEAN RECURRENCE INTERVAL OF 50 YEARS)

STRUCTURAL DRIFT LIMITS SEISMIC, PER ASCE 7 12.12

5. LIVE LOADS:

UNIFORM (PSF) CONCENTRATED (LB)

READING ROOMS 60 1,000

CORRIDORS (GROUND) 100 2,000

OFFICE 65* 2,000

PUBLIC AREAS, LOBBIES 100 2,000

ROOF 20 300

STACK ROOMS 150 1,000

* ADDITIONAL 15 PSF PARTITION LOAD INCLUDED

6. SNOW LOAD:

GROUND SNOW LOAD $p_g = 10$ PSF

IMPORTANCE FACTOR $I_s = 1.1$

SNOW EXPOSURE FACTOR $C_e = 1.0$

THERMAL FACTOR $p_t = 1.0$ PSF

FLAT SNOW ROOF LOAD

7. WIND LOAD:

V = 123 MPH (ALLOWABLE STRESS DESIGN WIND SPEED, $V_{ad} = 96$ MPH)

EXPOSURE CATEGORY B

INTERNAL PRESSURE COEFFICIENTS ± 0.18

BASE SHEAR (1.0xW) $V_b = 62k$ $V_p = 58k$

COMPONENTS AND CLADDING - ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS AS DETERMINED PER THE GOVERNING BUILDING CODE FOR THE ULTIMATE DESIGN WIND SPEED AND EXPOSURE CATEGORY LISTED ABOVE. ALTERNATIVELY, THE COMPONENT MANUFACTURER MAY USE THE WORST-CASE PRESSURES (PSF) BELOW:

	ZONE	EFFECTIVE WIND AREA (SF)			
		10	50	100	500
ROOF	1	+16 -50	+16 -30	+16 -16	+16 -16
	2	+16 -73	+16 -50	+16 -40	+16 -27
	3	+16 -87	+16 -58	+16 -46	+16 -46
WALL	4	+27 -30	+25 -27	+23 -25	+20 -23
	5	+27 -36	+25 -31	+23 -28	+20 -23

8. SEISMIC LOAD:

DESIGN METHOD - EQUIVALENT LATERAL FORCE PROCEDURE

S_s 23.5 %g

S_1 10.1 %g

S_{DS} 25.1 %g

S_{D1} 16.1 %g

IMPORTANCE FACTOR $I_a = 1.25$

SITE CLASS D

SEISMIC DESIGN CATEGORY C

SEISMIC FORCE-RESISTING SYSTEM - LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING

RESPONSE MODIFICATION COEFFICIENT $R_u = R_v = 4$

DEFLECTION AMPLIFICATION FACTOR $C_{dx} = C_{dy} = 3.5$

SEISMIC RESPONSE COEFFICIENT $C_{sx} = C_{sy} = 0.078$

BASE SHEAR (1.0xV) $V_u = V_v = 38k$

9. FUTURE LOADS:

UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.

FOUNDATIONS	
1.	FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT BY: SOUTHERN ENGINEERING, PC., DATED JULY 2, 2024 THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE IS 2,500 PSF BASED ON THIS REPORT.
2.	ALL RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT AND AS NOTED ON THE DRAWINGS MUST BE FOLLOWED IN PREPARATION OF THE SUBGRADE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL OBTAIN THE REPORT FROM THE OWNER AND BE FAMILIAR WITH THE RECOMMENDATIONS CONTAINED THEREIN PRIOR TO THE START OF CONSTRUCTION. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFER FROM THOSE DESCRIBED IN THE REPORT, THE OWNER SHALL NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD SO THE RECOMMENDATIONS CAN BE REEVALUATED.
3.	FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE. ALL EXPANSIVE AND/OR LOOSE SOILS BELOW STRUCTURAL FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED HEREIN.
4.	MINIMUM SUBGRADE PREPARATION REQUIREMENTS ARE AS FOLLOWS: 1. PREPARE SUBGRADE AND UNDERFLOOR FILL TO A POINT THAT EXTENDS 3'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS. 2. COMPACT ALL FILL UNDER BUILDING TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698, .98% WITHIN 12" OF FINISHED SUBRAGE ELEVATION. 3. PLACE IN LIFTS OF 8" (MAXIMUM) LOOSE THICKNESS WHEN USING LARGE RIDING COMPACTORS (REDUCE THICKNESS AS NECESSARY FOR SMALLER EQUIPMENT). 4. SLABS ON GRADE SHALL BE SUPPORTED ON A BASE LAYER OF POROUS FILL (WASHED STONE OR CLEAN SAND) WITH A MINIMUM THICKNESS OF 4". FIELD COMPACTION SHALL BE VERIFIED WITH AT LEAST ONE TEST PER 2,000 SQUARE FEET PER LIFT (AT LEAST ONE PER LIFT), IN ACCORDANCE WITH ASTM D1556 (SAND-CONE METHOD), ASTM D6938 (NUCLEAR METHODS, SHALLOW DEPTH), ASTM D2167 (RUBBER BALLOON METHOD), AND/OR ASTM D2937 (DRIVE-CYLINDER METHOD). SEE SPECIFICATIONS FOR OTHER TESTING REQUIREMENTS.
6.	WALLS RETAINING SOIL SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND ARE AT DESIGN STRENGTH UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
7.	WALLS RETAINING SOIL HAVE BEEN DESIGNED UTILIZING THE FOLLOWING PARAMETERS: MOIST SOIL UNIT WEIGHT 125 PCF ACTIVE PRESSURE COEFFICIENT 0.33 AT-REST PRESSURE COEFFICIENT 0.55 PASSIVE PRESSURE COEFFICIENT 3.00 COEFFICIENT OF FRICTION 0.50
8.	UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION.

CONCRETE REINFORCING STEEL	
1.	ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).
2.	CONCRETE MIXTURES AS REQUIRED (BASED ON CLASS DESIGNATION): CLASS A - FOOTINGS NWC 3,000 PSI CLASS B - FOUNDATION WALLS NWC 4,500 PSI CLASS C - INTERIOR SLABS ON GRADE NWC 3,000 PSI CLASS F - EXTERIOR SLABS ON GRADE, PADS, TOPPINGS NWC 4,500 PSI CLASS J - EXTERIOR RETAINING WALLS NWC 4,500 PSI
3.	REINFORCING: TYPICAL - ASTM A615, GRADE 60 CONCRETE EXPOSED TO BE WELDED - ASTM A706 DEFORMED BAR ANCHORS - ASTM A496 WELDED WIRE FABRIC - ASTM A1064 (FLAT SHEETS ONLY)
4.	GROUT UNDER BASE PLATES TO BE HIGH STRENGTH (5,000 PSI), NON-SHRINK.
5.	REFER TO THE DRAWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP PER ACI 318 OR CRSI STANDARDS.
6.	LAP WELDED WIRE FABRIC SHEETS 8" MINIMUM.
7.	CLEAR COVER FROM FACE OF CONCRETE: CAST IN PLACE CONCRETE (MEASURE TO OUTERMOST REINFORCING) - CONCRETE CAST AGAINST AND EXPOSED TO EARTH 3" CONCRETE EXPOSED TO EARTH/WEATHER 2" FOR #6 BARS AND LARGER, 1 1/2" ELSE CONCRETE NOT EXPOSED TO EARTH/WEATHER 3/4" FOR SLABS AND WALLS, 1 1/2" (TO TIES) FOR BEAMS AND COLUMNS
8.	PROVIDE REINFORCING IN SLABS ON GRADE, 1-1/2" FROM TOP OF SLAB: 4" SLABS 6x6-W2.1W2.1 5" SLABS 6x6-W2.9xW2.9 6" SLABS #3@12"OC EACH WAY 8" SLABS #4@12"OC EACH WAY
9.	WHERE SCHEDULED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT STIRRUPS AS REQUIRED FOR THE LENGTH OF THE STIRRUP SPACING IN ALL BEAMS.
10.	WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS.
11.	BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANIZED AFTER FABRICATION. HEADED CONCRETE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108, GRADES 1010, 1015, 1017, OR 1020. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
13.	FOR SLABS ON GRADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SAND PLATES, OR PRECAST CONCRETE BAR SUPPORTS AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 4'-0"OC BOTH WAYS. ROCKS, CMU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS.
14.	REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.
15.	THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.

CONCRETE CONSTRUCTION JOINTS	
1.	CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
2.	THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE MADE WITH BULKHEADS. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER. SEE TYPICAL CONSTRUCTION JOINT DETAILS.

STRUCTURAL MASONRY	
1.	ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (TMS 402/602).
2.	LOAD BEARING MASONRY WALLS, PLASTERS, PIERS, RETAINING WALLS, FOUNDATION WALLS AND ANY OTHER MASONRY SO DESIGNATED ON DRAWINGS IS CONSIDERED HERE TO BE STRUCTURAL MASONRY.
3.	REQUIRED COMPRESSIVE STRENGTH OF MASONRY UNITS: SOLID CLAY UNITS - 6,200 PSI CONCRETE UNITS - 2,000 PSI ON NET AREA
4.	CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHT WEIGHT (105 PCF) CONFORMING TO ASTM C90. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR UNIT SIZE, FACE, COLOR, JOINTING, ETC.
5.	MORTAR SHALL BE TYPE S, ASTM C270.
6.	GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT, ASTM C476. MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 2,000 PSI.
7.	MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_m') OF THE MASONRY WALLS SHALL BE 2,000 PSI. MASONRY STRENGTH SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD OR THE PRISM TEST METHOD AS DESCRIBED BY ACI 530.
8.	REINFORCING: TYPICAL - ASTM A615, GRADE 60 ALL REINFORCING TO BE WELDED - ASTM A706
9.	REFER TO THE DRAWINGS FOR REINFORCING LAP TYPICAL DETAIL AND SCHEDULE REQUIREMENTS.
10.	MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE GROUTING IS 5 FEET ABOVE CONSTRUCTION SURFACE OR PREVIOUSLY GROUTED MASONRY. IF GROUT POUR HEIGHT EXCEEDS 5 FEET, THEN "HIGH LIFT" GROUTING PROCEDURE MUST BE FOLLOWED. PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT POUR HEIGHT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.
11.	ALL GROUT PLACED OVER 12" IN HEIGHT SHALL BE MECHANICALLY CONSOLIDATED DURING GROUTING. GROUT SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
12.	MAXIMUM GROUT LIFT (GROUT POURED IN ONE CONTINUOUS OPERATION) IS 5 FEET. THIS LIMIT ALSO APPLIES TO "HIGH LIFT" GROUTING.
13.	REINFORCE MASONRY WHERE SHOWN ON STRUCTURAL DRAWINGS. TIE REINFORCING IN POSITION AND PLACE GROUT AROUND REINFORCING. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY.
14.	TIE MASONRY WYTHES WITH HORIZONTAL REINFORCING AS SPECIFIED.
15.	PROVIDE VERTICAL BARS, SIZE MATCHING WALL REINFORCING, AT ALL CORNERS, ENDS OF WALLS, EACH SIDE OF CONTROL JOINTS AND EACH SIDE OF WALL OPENINGS. TIE EACH BAR TO THE FOUNDATION WITH A MATCHING DOVEL.
16.	ALL CORNERS OF STRUCTURAL MASONRY WALLS SHALL BE CONSTRUCTED BY INTERLOCKING COURSES. AT INTERSECTIONS WHERE SEQUENCING OR BLOCK COURSING PROHIBITS INTERLOCKED CONSTRUCTION SEE ALTERNATE DETAILS HEREIN.
17.	ALL LINTELS TO BEAR 8" MINIMUM EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE.
18.	GROUT ALL MASONRY WALLS AND CAVITY BELOW GRADE SOLID. GROUT ALL WALLS ABOVE GRADE AT THE REINFORCED CELLS (MINIMUM) OR AS INDICATED IN SPECIFIC SECTIONS.
19.	ONE 3/4"Ø (MAXIMUM) VERTICAL CONDUIT ALLOWED IN ANY REINFORCED CELL PROVIDED 1" CLEAR IS MAINTAINED BETWEEN REINFORCING AND CONDUIT. NO OTHER VERTICAL OR HORIZONTAL CONDUITS, PIPES, OR SLEEVES SHALL BE LOCATED IN REINFORCED CELLS UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL COORDINATE LAYOUT TO AVOID REINFORCED CELLS.

NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

	Description	Date

Date	Project No.
Issue Date	22038
Drawn By	Sheet No.
VNA	S0.1
Checked By	
MBC	

Sheet Title

GENERAL NOTES



109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
300 W. Warren Street, Raleigh, NC 27601

STRUCTURAL STEEL	
1.	DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360).
2.	STRUCTURAL STEEL MATERIALS: WIDE FLANGE SHAPES (W SECTIONS) - ASTM A992, GRADE 50 (FY=50 KSI) CHANNELS AND ANGLES - ASTM A36 (FY=36 KSI) PLATES AND BARS - ASTM A36 (FY=36 KSI) OR ASTM A572, GRADE 50 (FY=50 KSI) AS INDICATED ON THE DRAWINGS. SQUARE AND RECTANGULAR TUBES - ASTM A500, GRADE B (FY=46 KSI) PIPES OR ROUND TUBES - ASTM A53, GRADE B (FY=35 KSI) OR ASTM A500, GRADE B (FY=42 KSI)
3.	A QUALIFIED FABRICATOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN FABRICATING STRUCTURAL STEEL LIKE THAT INDICATED FOR THIS PROJECT AND SUFFICIENT CAPACITY TO FABRICATE THE STRUCTURAL STEEL WITHOUT DELAYING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING: A. FABRICATOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY (BU) OR IS ACCREDITED BY THE IAS FABRICATOR INSPECTION PROGRAM FOR STRUCTURAL STEEL (ACCREDITATION CRITERIA 172). B. FABRICATOR HAS AN ESTABLISHED AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS IN ANSI/AISC 303, ANSI/AISC 360, AND THE CONTRACT DOCUMENTS. PROGRAM SHALL AT A MINIMUM ADDRESS INSPECTION OF THE ITEMS NOTED IN ANSI/AISC 360 N2.
4.	A QUALIFIED ERECTOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN ERECTING STRUCTURAL STEEL LIKE THAT INDICATED FOR THIS PROJECT AND SUFFICIENT CAPACITY TO ERECT THE STRUCTURAL STEEL WITHOUT DELAYING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING: A. ERECTOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED ERECTOR, CATEGORY (CSE). B. ERECTOR HAS AN ESTABLISHED AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS IN ANSI/AISC 303, ANSI/AISC 360, AND THE CONTRACT DOCUMENTS. PROGRAM SHALL AT A MINIMUM ADDRESS INSPECTION OF THE ITEMS NOTED IN ANSI/AISC 360 N2.
5.	BEAM SIMPLE SHEAR, BRACED FRAME, AND ALL MOMENT CONNECTIONS NOT DETAILED ON STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE STEEL SUPPLIER AND REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CONNECTION ENGINEER SHALL SUBMIT A SIGNED AND SEALED LETTER STATING THEY HAVE REVIEWED THE STEEL SHOP DRAWINGS AND THE CONNECTIONS ARE CONSISTENT WITH THEIR CALCULATIONS AND INTENT.
6.	THE CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR FOR REACTIONS DETERMINED BY USING THE MAXIMUM TOTAL UNIFORM LOAD TABULATED IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL FOR THE SECTION, SPAN, AND STRENGTH OF STEEL SPECIFIED.
7.	SIMPLE SHEAR CONNECTIONS SHALL BE MADE WITH ASTM A325 3/4"Ø BOLTS (MINIMUM), TIGHTENED TO A SNUG-TIGHT CONDITION PER AISC REQUIREMENTS.
8.	ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. USE E70 SERIES ELECTRODES FOR ALL STRUCTURAL STEEL WELDS. WHERE STEEL MEMBERS ARE WELDED AND NO SIZE IS SPECIFIED, PROVIDE FULL LENGTH FILLET WELDS BOTH SIDES OF MEMBER. SIZE OF FILLETS SHALL BE 3/16" FOR MEMBER THICKNESS UP TO 5/16", AND THE MEMBER THICKNESS MINUS 3/16" FOR ALL THICKER MATERIALS.
9.	ANCHOR AND THREADED RODS SHALL CONFORM TO ASTM F1554, GRADE 36, 55, OR 105 AS INDICATED ON THE DRAWINGS. CONTRACTOR TO COORDINATE INSTALLATION OF ITEMS TO BE EMBEDDED IN OR ATTACHED TO OTHER CONSTRUCTION WITHOUT DELAYING THE WORK.
10.	STEEL SHALL BE PRIMED WITH FABRICATOR'S STANDARD LEAD- AND CHROMATE-FREE, NON-ASPHALTIC, RUST-INHIBITTING PRIMER COMPLYING WITH MPPF79 (MINIMUM COAT OF 3 MILS, MAXIMUM OF 5 MILS). CONTRACTOR TO COORDINATE SELECTION OF PRIMER WITH TOPCOATS TO BE APPLIED TO ENSURE THE TWO ARE COMPATIBLE. MEMBERS TO BE EMBEDDED IN CONCRETE SHALL NOT BE PRIMED.
11.	SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL ITEMS REQUIRED TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
12.	STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING, NAILERS, CLIPS AND TIES IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
13.	CAP ALL OPEN HSS OR PIPE MEMBERS OUTSIDE THE BUILDING ENVELOPE WITH A 1/4" (MINIMUM) FITTED PLATE, UNO.
14.	ERECTOR SHALL SET STRUCTURAL STEEL IN LOCATIONS AND TO ELEVATIONS IN ACCORDANCE WITH ANSI/AISC 303 AND 360. MAINTAIN THE FRAME WITHIN ERECTION TOLERANCES PER ANSI/AISC 303.
15.	PROMPTLY PACK SHRINKAGE-RESISTANT GROUT SOLIDLY BETWEEN BEARING SURFACES AND PLATES SO NO VOIDS REMAIN.
16.	SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED. THERMAL CUTTING MAY NOT BE USED IN THE FIELD DURING ERECTION.
17.	QUALITY CONTROL INSPECTION TASKS SHALL BE PERFORMED BY BOTH THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH ANSI/AISC 360 N5. NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING FABRICATION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY OR THE FABRICATOR'S QCI. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.
18.	AT THE COMPLETION OF FABRICATION AND ERECTION, THE FABRICATOR AND ERECTOR SHALL EACH SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER STATING THE MATERIALS SUPPLIED AND WORK PERFORMED ARE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
19.	NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING ERECTION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.

LOAD BEARING COLD-FORMED STEEL (METAL STUDS)	
1.	ALL STRUCTURAL MEMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REFERENCED EDITION OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE.
2.	ALL COLD-FORMED LIGHT GAUGE METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER. ALL METAL STUDS, JOISTS, AND ACCESSORIES SHALL BE MADE OF THE MINIMUM TYPE, SIZE, GAUGE, AND SPACING SHOWN ON DRAWINGS. AT ARCHITECT'S OR ENGINEER'S REQUEST CONTRACTOR SHALL SUBMIT CALCULATIONS FOR ALL COLD-FORMED METAL FRAMING USED TO SUPPORT CEILING.
3.	MINIMUM YIELD STRENGTH (FY) FOR STUDS IS 33 KSI FOR 18 GA (43 MILS) AND 20 GA (33 MILS) MATERIALS, AND 50 KSI FOR 12 GA (97 MILS), 14 GA (68 MILS), AND 16 GA (54 MILS) MATERIALS.
4.	ALL THE COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL COME FROM A SINGLE SOURCE MANUFACTURER. ONLY MANUFACTURERS WHO ARE MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) WILL BE ACCEPTED. THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
5.	SUBMIT SHOP DRAWINGS FOR ALL COLD-FORMED METAL FRAMING. SHOP DRAWINGS SHALL INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, GAUGE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
6.	SHOP DRAWINGS SHALL SHOW SIZE AND LENGTH OF WELDS FOR ALL WELDED CONNECTIONS AND TYPE, SIZE AND NUMBER OF SCREWS FOR ALL SCREWED CONNECTIONS. SUBMIT MANUFACTURER'S DATA GIVING STRENGTH VALUES FOR SCREWS USED.
7.	SHOP DRAWINGS SUBMITTED MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
8.	ALL STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653 AND C955. ALL ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI.
9.	A MINIMUM LENGTH OF 10" OF UNPUNCHED STEEL IS REQUIRED AT BOTH ENDS OF STUDS. NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10". NO CUTTING OF THE STUD FLANGE IS PERMITTED.
10.	LOAD BEARING WALLS MAY BE PRE-FABRICATED OFFSITE IN A PRE-PANELIZATION SHOP IN A CONTROLLED ENVIRONMENT WITH A CERTIFIED QUALITY CONTROL PROGRAM. THE FACILITY MUST HAVE A MINIMUM OF 2 YEARS OF OPERATION EXPERIENCE.
11.	THE PANELIZER MUST SUBMIT FULLY DIMENSIONED WALL PANEL SHOP DRAWINGS OF EACH INDIVIDUAL WALL PANEL WITH THE MATERIALS EXPLICITLY CALLED OUT, AS WELL AS A FULLY DIMENSIONED PANEL LAYOUT DRAWING LOCATING EACH PANEL. THESE DRAWINGS MUST BE SUBMITTED FOR APPROVAL, AND WALL PANEL CONSTRUCTION SHALL NOT BEGIN UNTIL THE ENGINEER'S APPROVAL IS RECEIVED.
12.	WALL PANELS MUST BE FABRICATED IN SHOP OR IN FIELD WITH WELDED CONNECTIONS. FIELD WELDING OF MATERIALS LESS THAN 18 GA (43 MILS) SHALL NOT BE PERMITTED. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S "STRUCTURAL WELDING CODE - SHEET STEEL" (AWS D1.3).
13.	BOTH STUD FLANGES SHALL BE ATTACHED TO THE TOP AND BOTTOM TRACK WITH A 1" MINIMUM LENGTH OF WELD AT BEARING WALLS AND (2)#10 SCREWS EACH SIDE AT NON-LOAD BEARING WALLS.
14.	ALL WELDS SHALL BE TOUCHED UP WITH ZINC-RICH PAINT.
15.	SPLICES IN STUDS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
16.	STUDS SHALL HAVE FULL BEARING AGAINST THE INSIDE TRACK WEB TOP AND BOTTOM. STUDS MUST BE CUT SQUARE. THE PANELIZATION FACILITY MUST UTILIZE A COMPRESSION MECHANIZATION IN THEIR JIGS (HYDRAULIC RAMS) TO FULLY SEAT THE STUDS IN THE TRACK PRIOR TO WELDING.
17.	MULTIPLE STUD "COLUMNS" SHALL BE WELDED TOGETHER IN GROUPS OF AT LEAST TWO STUDS WITH 2" WELD TOP AND BOTTOM AND 1" WELD AT 24"OC BOTH SIDES IN BETWEEN.
18.	TRACK SPLICES WITHIN A PANEL/WALL MUST BE SECURELY ANCHORED TO A COMMON ELEMENT (I.E. STUD, HEADER, ETC.), BUTT-WELDED TOGETHER, OR SPLICED WITH STUD MATERIAL SECURELY FASTENED TO TRACK ON BOTH SIDES OF SPLICE.
19.	LIGHT GAUGE STRAPS ON BOTH SIDES OF THE WALL ARE REQUIRED TO PROVIDE SHEAR RESISTANCE FOR SHEAR WALL FRAMING.
20.	LATERAL BRIDGING SHALL BE USED TO RESIST TORSIONAL FORCES IN THE METAL STUDS. BRIDGING SHALL BE 2 1/2"-18 GA (43 MILS) FLAT STRAPS, SCREW ATTACHED TO BOTH FLANGES OF EACH STUD WITH SOLID BLOCKING REQUIRED AT 8"OC (MAX) AND ADJACENT TO EACH OPENING. BLOCKING MAY BE MADE FROM MATCHING GAUGE STUDS ATTACHED WITH 16 GA (54 MILS) CLIP ANGLES WITH (2)#10 SCREWS INTO EACH FLANGE.
21.	ACCEPTABLE BRIDGING ALTERNATE IS COLD-FORMED CHANNELS (1 1/2" CHANNEL IN 3 5/8" OR 4" STUDS AND 2 1/2" CHANNEL IN 6" STUDS) WELDED TO THE OUTER EDGE OF PUNCHOUTS WITH 1/4" MINIMUM WELD.
22.	BRIDGING IS TO BE PLACED AT NO MORE THAN 4'-0"OC VERTICALLY.
23.	INSTALL DOUBLE STUDS AT EVERY INTERRUPTION (I.E. PLUMBING CHASES, ETC.).
24.	MINIMUM TRACK FASTENINGS SHALL BE 0.138"Ø POWDER ACTUATED FASTENERS (PAFS) SPACED 12"OC FOR BEARING WALLS AND 16"OC FOR NON-LOAD BEARING WALLS (UNO), WITH 1 1/4" MINIMUM PENETRATION INTO CONCRETE. AT STRAP WALLS, TRACK FASTENINGS SHALL BE SPACED 3"OC (MINIMUM UNO).
25.	VOIDS BENEATH TRACK SHALL NOT BE PERMITTED. CONTRACTOR SHALL PROVIDE A LEVEL SLAB WITHIN ACT 117 TOLERANCES. WHERE UNEVENNESS OF SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY PLACING MORTAR OR GROUT BENEATH TRACK.
26.	HEADERS SHALL BE CONSTRUCTED OF UNPUNCHED STUDS. SHEAR SHALL BE TRANSFERRED BY FULL BEARING ON JACK STUDS OR BY SHEAR PLATES. SHEAR PLATES SHALL BE 16 GA (54 MILS) MINIMUM.
27.	CUTTING OF LOAD BEARING STUDS, TRACK, OR STRAPPING IS NOT PERMITTED WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER OF RECORD.
28.	MULTIPLE STUD COLUMNS WITHOUT LATERAL BRACING MUST BE 12 GA (97 MILS) MINIMUM, REGARDLESS OF GAUGES INDICATED ON FRAMING PLANS.
29.	REFER TO ARCHITECTURAL PLANS FOR NON-LOAD BEARING WALLS AND TO VERIFY ALL DIMENSIONS SHOWN FOR LOAD BEARING WALLS.

NON-LOAD BEARING COLD-FORMED STEEL (METAL STUDS)	
1.	ALL STRUCTURAL MEMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REFERENCED EDITION OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE.
2.	ALL METAL STUDS, HEADERS, AND ACCESSORIES SHALL BE MADE OF THE MINIMUM TYPE, SIZE, GAUGE, AND SPACING SHOWN ON DRAWINGS.
3.	MINIMUM YIELD STRENGTH (FY) FOR STUDS IS 33 KSI FOR 18 GA (43 MILS) AND 20 GA (33 MILS) MATERIALS, AND 50 KSI FOR 12 GA (97 MILS), 14 GA (68 MILS), AND 16 GA (54 MILS) MATERIALS.
4.	ALL THE COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL COME FROM A SINGLE SOURCE MANUFACTURER. ONLY MANUFACTURERS WHO ARE MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) WILL BE ACCEPTED. THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
5.	SUBMIT SHOP DRAWINGS FOR ALL COLD-FORMED METAL FRAMING USED TO SUPPORT CEILINGS AND EXTERIOR CLADDING. SHOP DRAWINGS SHALL INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, GAUGE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
6.	SHOP DRAWINGS SHALL SHOW SIZE AND LENGTH OF WELDS FOR ALL WELDED CONNECTIONS AND TYPE, SIZE AND NUMBER OF SCREWS FOR ALL SCREWED CONNECTIONS. SUBMIT MANUFACTURER'S DATA GIVING STRENGTH VALUES FOR SCREWS USED.
7.	ALL STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653 AND C955. ALL ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI.
8.	A MINIMUM LENGTH OF 10" OF UNPUNCHED STEEL IS REQUIRED AT BOTH ENDS OF STUDS. NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10". NO CUTTING OF THE STUD FLANGE IS PERMITTED.
9.	BOTH STUD FLANGES SHALL BE ATTACHED TO THE TOP AND BOTTOM TRACK WITH (2)#10 SCREWS EACH SIDE.
10.	SPLICES IN STUDS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
11.	MULTIPLE STUD "COLUMNS" SHALL BE WELDED TOGETHER IN GROUPS OF AT LEAST TWO STUDS WITH 2" WELD TOP AND BOTTOM AND 1" WELD AT 24"OC BOTH SIDES IN BETWEEN.
12.	TRACK SPLICES WITHIN A PANEL/WALL MUST BE SECURELY ANCHORED TO A COMMON ELEMENT (I.E. STUD, HEADER, ETC.), BUTT-WELDED TOGETHER, OR SPLICED WITH STUD MATERIAL SECURELY FASTENED TO TRACK ON BOTH SIDES OF SPLICE.
13.	LATERAL BRIDGING SHALL BE USED TO RESIST TORSIONAL FORCES IN THE METAL STUDS. BRIDGING SHALL BE 2 1/2"-18 GA (43 MILS) FLAT STRAPS, SCREW ATTACHED TO BOTH FLANGES OF EACH STUD WITH SOLID BLOCKING REQUIRED AT 8"OC (MAX) AND ADJACENT TO EACH OPENING. BLOCKING MAY BE MADE FROM MATCHING GAUGE STUDS ATTACHED WITH 16 GA (54 MILS) CLIP ANGLES WITH (2)#10 SCREWS INTO EACH FLANGE.
14.	ACCEPTABLE BRIDGING ALTERNATE IS COLD-FORMED CHANNELS (1 1/2" CHANNEL IN 3 5/8" OR 4" STUDS AND 2 1/2" CHANNEL IN 6" STUDS) WELDED TO THE OUTER EDGE OF PUNCHOUTS WITH 1/4" MINIMUM WELD.
15.	BRIDGING IS TO BE PLACED AT NO MORE THAN 4'-0"OC VERTICALLY.
16.	INSTALL DOUBLE STUDS AT EVERY INTERRUPTION (I.E. PLUMBING CHASES, ETC.).
17.	MINIMUM TRACK FASTENINGS SHALL BE 0.138"Ø POWDER ACTUATED FASTENERS (PAFS) SPACED 16"OC FOR WALLS (UNO), WITH 1 1/4" MINIMUM PENETRATION INTO CONCRETE.
18.	VOIDS BENEATH TRACK SHALL NOT BE PERMITTED. CONTRACTOR SHALL PROVIDE A LEVEL SLAB WITHIN ACT 117 TOLERANCES. WHERE UNEVENNESS OF SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY PLACING MORTAR OR GROUT BENEATH TRACK.
19.	VERTICAL DEFLECTION CLIPS ARE REQUIRED TO BE CAPABLE OF ACCOMMODATING UPWARD AND DOWNWARD VERTICAL DISPLACEMENT OF THE STRUCTURE THROUGH POSITIVE MECHANICAL ATTACHMENT TO STUD WEB. MECHANICAL ATTACHMENT TO STRUCTURE AND SCREW ATTACHMENT TO STUD WEB USING STEP-BUSHINGS TO PERMIT FRICTIONLESS VERTICAL MOVEMENT. CONNECTORS TO BE TESTED IN ACCORDANCE TO ICC AC621 CRITERIA AND HOLD A VALID ICC-ES EVALUATION SERVICE REPORT TO BE ACCEPTABLE.
20.	HEADERS SHALL BE CONSTRUCTED OF UNPUNCHED STUDS. SHEAR SHALL BE TRANSFERRED BY FULL BEARING ON JACK STUDS OR BY SHEAR PLATES. SHEAR PLATES SHALL BE 16 GA (54 MILS) MINIMUM.
21.	REFER TO ARCHITECTURAL PLANS FOR NON-LOAD BEARING WALLS.

LIGHT GAUGE COLD-FORMED STEEL TRUSSES	
1.	ALL TRUSSES AND STRUCTURAL MEMBERS SHALL CONFORM TO THE REFERENCED BUILDING CODE AND SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REFERENCED EDITION OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE.
2.	ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS: TOP CHORD DL = 10 PSF (AT ROOF) LL = SEE DESIGN CRITERIA BOTTOM CHORD DL = 10 PSF DL = 250 LB AT ANY POINT (NPPA-13)
3.	TRUSS SUPPLIER SHALL CALCULATE UPLIFT LOADS BASED ON THE WIND LOAD CRITERIA LISTED IN THESE GENERAL NOTES. AT A MINIMUM THE TRUSSES SHALL BE DESIGNED FOR A NET WIND UPLIFT LOAD OF -- PSF UNLESS NOTED OTHERWISE.
4.	GABLE END WALL TRUSSES SHALL BE DESIGNED FOR THE COMPONENTS AND CLADDING LOADS OF -- PSF. DEFLECTION OF THE VERTICAL SUPPORT MEMBERS SHALL BE LESS THAN L/360. SUPPLY BRACING AS REQUIRED FOR LOADS AND DEFLECTION. SEALED CALCULATIONS SHALL BE PROVIDED BY THE TRUSS ENGINEER FOR ALL GABLE END WALL TRUSSES.
5.	ALL STEEL SHALL CONFORM TO ASTM A446 WITH G-60 GALVANIZING.
6.	ALL REQUIRED BRIDGING SHALL BE DESIGNED AND SUPPLIED BY THE TRUSS MANUFACTURER.
7.	SUBMIT SHOP DRAWINGS FOR ALL COLD-FORMED STEEL TRUSSES. SHOP DRAWINGS SHALL INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, GAUGE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
8.	SHOP DRAWINGS SHALL SHOW SIZE AND LENGTH OF WELDS FOR ALL WELDED CONNECTIONS AND TYPE, SIZE AND NUMBER OF SCREWS FOR ALL SCREWED CONNECTIONS. SUBMIT MANUFACTURER'S DATA GIVING STRENGTH VALUES FOR SCREWS USED.
9.	SHOP DRAWINGS SUBMITTED MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
10.	ALL LIGHT GAUGE COLD-FORMED STEEL TRUSSES AND CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER.
11.	TEMPORARY BRACING, WHERE REQUIRED, SHALL BE PROVIDED UNTIL THE ERECTION IS COMPLETE.

SHEATHING	
1.	ALL SHEATHING SHALL BE PLYWOOD OR OSB. ALL PLYWOOD SHEATHING, DIAPHRAGMS, AND SHEAR WALL PANELS SHALL CONFORM TO U.S. PRODUCT STANDARD PS-1-07 WITH EXTERIOR GLUE. ALL OSB SHEATHING, DIAPHRAGMS, AND SHEAR WALL PANELS SHALL CONFORM TO U.S. PRODUCT STANDARD PS-2-04. A. WALL SHEATHING SHALL BE 7/16" EXTERIOR GRADE (SPAN RATING 24/16) UNO IN SHEAR WALL SCHEDULE. B. ROOF SHEATHING SHALL BE 19/32" EXTERIOR GRADE (SPAN RATING 40/20).
2.	SHEATHING SHEETS SHALL BE LAID WITH LONG DIMENSION PERPENDICULAR TO THE SUPPORTING FRAMING.
3.	PREPARE SHEATHING PER GYPCRETE MANUFACTURER'S REQUIREMENTS BEFORE CASTING GYPCRETE.

ADHESIVE AND MECHANICAL POST-INSTALLED ANCHORS	
1.	ANCHOR BOLTS, REINFORCING STEEL, THREADED RODS, STAIR HANDRAILS, AND OTHER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED CONCRETE WITH ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS ONLY WHERE DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE ENGINEER OF RECORD.
2.	PRE-APPROVED MANUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND DEWALT. WHERE DETAILS INDICATE SPECIFIC ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S OPTION TO SUBMIT AN ALTERNATE SIMILAR PRODUCT PROVIDED BY A DIFFERENT MANUFACTURER AS LONG AS THE MANUFACTURER'S DATA PROVIDES EQUIVALENT LOAD CAPACITY TO THE ANCHOR SPECIFIED. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS THAT DEMONSTRATE THE ALTERNATE PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE SPECIFIED ANCHOR. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ESR SHOWING COMPLIANCE WITH THE GOVERNING BUILDING CODE FOR SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND THE AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE, AND DRILLING METHODS.
3.	BASIS OF DESIGN FOR ADHESIVE ANCHORS DETAILED ON THE DRAWINGS INCLUDES THE FOLLOWING PARAMETERS: CRACKED CONCRETE; WATER-SATURATED CONCRETE; BASE MATERIAL BETWEEN 25 AND 100 DEGREES FAHRENHEIT; AND HOLES MADE BY HAMMER DRILL, HOLLOW DRILL BIT SYSTEM, OR CORE-DRILLING.
4.	INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING. HEED ALL LABEL WARNINGS. INSTALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS. ALL HOLES SHALL BE DRILLED WITH A DIAMETER NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE ANCHOR BEING INSTALLED. ALL HOLES SHALL BE CLEANED WITH COMPRESSED AIR AND SHALL BE DRY PRIOR TO INSTALLATION OF ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOUS MATERIAL SUCH AS LAITANCE, DUST, DIRT, AND OIL.
5.	ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6.	WHERE ADHESIVE ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIAL WITH UNKNOWN CAPACITY, THE CONTRACTOR SHALL INSTALL THE ANCHOR IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE ADHESIVE SHALL BE INSTALLED IN THE HOLLOW BASE MATERIAL USING SCREEN TUBES SUPPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL BE CAPABLE OF SUSTAINING MINIMUM TENSION AND SHEAR LOAD CAPACITIES NOTED ON THE DRAWINGS MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARDWARE AND MATERIAL SHALL BE SUPPLIED BY THE ANCHOR MANUFACTURER.
7.	CONTRACTOR PERFORMING ADHESIVE WORK SHALL BE AN APPROVED CONTRACTOR BY THE MANUFACTURER FURNISHING THE ADHESIVE MATERIALS, AND SHALL HAVE NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIOUS TYPES OF ADHESIVE RELATED WORK REQUIRED IN THIS PROJECT. ALTERNATIVELY, THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. DOCUMENTATION THAT ALL PERSONNEL INSTALLING ANCHORS ARE TRAINED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
8.	THE ULTIMATE TENSION AND SHEAR CAPACITIES SHALL BE DETERMINED BY A JOB SITE TEST PERFORMED ON A MINIMUM OF FIVE INSTALLED SAMPLES WHICH ARE REPRESENTATIVE OF THE ACTUAL INSTALLATIONS. TESTING SHALL BE PERFORMED BY THE ADHESIVE ANCHOR MANUFACTURER OR HIS APPROVED REPRESENTATIVE AND SHALL BE DOCUMENTED FOR THE DESIGN PROFESSIONAL.

REPRODUCTION
1. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HERE ON.

GENERAL NOTE: Prior to construction start, Contractor shall verify & be responsible for all Dimensions.		
Revisions		
#	Description	Date
Date Issue Date		Project No. 22038
Drawn By VNA		Sheet No. S0.2
Checked By MBC		
Sheet Title GENERAL NOTES		

SYMBOL LEGEND	
	SPOT ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.
<No>	TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER. ELEVATION RELATIVE TO REFERENCE ELEVATION.
	STEP IN TOP OF FOOTING ELEVATION, SEE "TYPICAL STEP IN WALL FOOTING" DETAIL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
	DEPRESSED OR RAISED SLAB ELEVATION, SEE "TYPICAL STEP IN SLAB ON GRADE" DETAIL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
[No]	TOP OF WALL OR PEDESTAL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
(No) [+No]	TOP OF STEEL/JOIST BEARING ELEVATION TOP OF STEEL ABOVE STEEL/JOIST BEARING ELEVATION.
	SLOPED STEPPED SLAB.
F#	SPREAD FOOTING TYPE, SEE SCHEDULE.
P#	CONCRETE PEDESTAL TYPE, SEE SCHEDULE.
PC#	PILE CAP TYPE, SEE SCHEDULE.
GB# WxD	CONCRETE GRADE BEAM TYPE, SEE SCHEDULE. "W" INDICATES BEAM WIDTH AND "D" INDICATES BEAM DEPTH (IN INCHES).
CB# WxD	CONCRETE BEAM TYPE, SEE SCHEDULE. "W" INDICATES BEAM WIDTH AND "D" INDICATES BEAM DEPTH (IN INCHES).
CJ# WxD	CONCRETE JOIST TYPE, SEE SCHEDULE. "W" INDICATES NOMINAL JOIST WIDTH AND "D" INDICATES JOIST DEPTH (IN INCHES).
PCB WxD	PRECAST CONCRETE BEAM. "W" INDICATES ASSUMED BEAM WIDTH AND "D" INDICATES ASSUMED BEAM DEPTH (IN INCHES).
PT# WxD	POST-TENSIONED CONCRETE BEAM TYPE, SEE SCHEDULE. "W" INDICATES BEAM WIDTH AND "D" INDICATES BEAM DEPTH (IN INCHES).
	STUD RAIL REINFORCING TYPE, SEE "ELEVATED SLABS STUD RAILS" DETAIL.
CSW#	CONCRETE SHEAR WALL TYPE, SEE SCHEDULE.
MP#	MASONRY PILASTER TYPE, SEE "TYPICAL MASONRY PILASTERS" DETAIL.
ML#	MASONRY LINTEL TYPE, SEE "TYPICAL LOAD BEARING LINTELS" DETAIL.
BP#	STEEL BEARING PLATE TYPE, SEE "TYPICAL STEEL BEAM BEARING" DETAIL.
MSW#	MASONRY SHEAR WALL TYPE, SEE SCHEDULE.
	SPAN DIRECTION OF METAL ROOF DECK, SEE "TYPICAL 1 1/2" METAL ROOF DECK" DETAIL. CONSTRUCTION SHALL BE 1 1/2"-22GA METAL ROOF DECK.
	SPAN DIRECTION OF METAL ROOF DECK, SEE "TYPICAL 3" METAL ROOF DECK" DETAIL. CONSTRUCTION SHALL BE 3"-18GA METAL ROOF DECK.
	SPAN DIRECTION OF COMPOSITE SLAB, SEE "TYPICAL COMPOSITE SLAB" DETAIL. CONSTRUCTION SHALL BE 3 1/4" LIGHT WEIGHT CONCRETE ON 2"-20GA COMPOSITE METAL DECK (5 1/4" TOTAL THICKNESS). TOP OF STEEL ELEVATION 5 1/4" BELOW FINISHED FLOOR ELEVATION, UNO.
	SPAN DIRECTION OF COMPOSITE SLAB, SEE "TYPICAL COMPOSITE SLAB" DETAIL. CONSTRUCTION SHALL BE 4 1/2" NORMAL WEIGHT CONCRETE ON 2"-20GA COMPOSITE METAL DECK (6 1/2" TOTAL THICKNESS). TOP OF STEEL ELEVATION 6 1/2" BELOW FINISHED FLOOR ELEVATION, UNO.
W10	COMPOSITE W10x15 STEEL BEAM WITH HEADED STUDS @24"OC.
W12	COMPOSITE W12x16 STEEL BEAM WITH HEADED STUDS @24"OC.
V#, M#, L#, A#, T#	STEEL BEAM DESIGN END REACTIONS (WHERE APPLICABLE). "V" INDICATES VERTICAL SHEAR, "M" INDICATES BENDING MOMENT, "H" INDICATES LATERAL SHEAR, "A" INDICATES AXIAL TENSION/COMPRESSION, AND "T" INDICATES TORSION. ALL LOADS ARE FACTORED FOR STRENGTH DESIGN IN UNITS OF KIP AND KIP-FT. ALL LOADS SHALL BE CONSIDERED REVERSIBLE, UNO.
	STEEL BEAM MOMENT CONNECTION.
	VERTICAL FRAME TYPE, SEE ELEVATIONS.
SSW#	METAL STUD SHEAR WALL TYPE, SEE SCHEDULE.
C#	WOOD COLUMN TYPE, SEE SCHEDULE. ALL COLUMNS ARE TO BE EXTENDED TO THE FOUNDATION WHETHER SHOWN ON PLAN OR NOT.
H#	WOOD HEADER TYPE, SEE SCHEDULE.
WSW#	WOOD SHEAR WALL TYPE, SEE SCHEDULE.

ABBREVIATIONS			
@	AT	GT	GIRDER TRUSS
&	AND	HD	HEADED
Ø	DIAMETER	HI	HIGH
AB	ANCHOR BOLTS	HORIZ	HORIZONTAL
ACI	AMERICAN CONCRETE INSTITUTE	HSS	HOLLOW STRUCTURAL SECTION
ADDL	ADDITIONAL	INT	INTERIOR
ADH	ADHESIVE	JT	JOINT
AFF	ABOVE FINISHED FLOOR	K	KIP(S)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	KB	KNEE BRACE
AISI	AMERICAN IRON AND STEEL INSTITUTE	KSI	KIPS PER SQUARE INCH
ALT	ALTERNATE	LB	LONG BAR
ARCH	ARCHITECT'S / ARCHITECTURAL	LBS	POUNDS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LLH	LONG LEG HORIZONTAL
AWS	AMERICAN WELDING SOCIETY	LLV	LONG LEG VERTICAL
B/ or BOT	BOTTOM	LOW	LOW
BCX	BOTTOM CHORD EXTENSION	LOC	LOCATION
BFB	BOTTOM FLANGE BRACE	LSH	LONG SIDE HORIZONTAL
BFF	BELOW FINISHED FLOOR	LSV	LONG SIDE VERTICAL
BLDG	BUILDING	LWC	LIGHT WEIGHT CONCRETE
BM	BEAM	MAX	MAXIMUM
BOS	BOTTOM OF STEEL	MC	MOMENT CONNECTION
BRG	BEARING	MCJ	MASONRY CONTROL JOINT
BTWN	BETWEEN	MECH	MECHANICAL
CANT	CANTILEVER	MFR	MANUFACTURER
CJ	CONTROL JOINT	MID	MIDDLE
CLR	CENTERLINE	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
COL	COLUMN	MOW	MIDDLE OF WALL
CONC	CONCRETE	MP	MASONRY PILASTER
CONN	CONNECTION	No or #	NUMBER
CONST JT	CONSTRUCTION JOINT	NS	NEAR SIDE
CONT	CONTINUOUS	NTS	NOT TO SCALE
CONTR	CONTRACTOR	NWC	NORMAL WEIGHT CONCRETE
COORD	COORDINATE	OC	ON CENTER
CTRD	CENTERED	OPNG	OPENING
d	NAILS (PENNY)	OPP	OPPOSITE HAND
DBA	DEFORMED BAR ANCHOR	PAF	POWDER ACTUATED FASTENER
DEFL	DEFLECTION	PED	PEDESTAL
DEPR	DEPRESSION / DEPRESSED	PL	PLATE
DET	DETAIL	PSF	POUNDS PER SQUARE FOOT
DIAG	DIAGONAL	PSI	POUNDS PER SQUARE INCH
DIM	DIMENSION	PT	PRESSURE TREATED
DIST	DISTANCE	P-T	POST-TENSIONED
DWG(S)	DRAWING(S)	REF	REFERENCE
DWL(S)	DOWEL(S)	REINF	REINFORCING
EA	EACH	REQD	REQUIRED
EE	EACH END	SB	SHORT BAR
EF	EACH FACE	SCHD	SCHEDULE
EJ	EXPANSION JOINT	SIM	SIMILAR
EL	ELEVATION	SOG	SLAB ON GRADE
ELEV	ELEVATOR	SPEC(S)	SPECIFICATION(S)
EMBED	EMBEDDED / EMBEDMENT	SQ	SQUARE
ENGR	ENGINEER	STD	STANDARD
EOD	EDGE OF DECK	STIFF	STIFFENER
EOS	EDGE OF SLAB	STIRR	STIRRUP(S)
EQ	EQUAL	STL	STEEL
EQUIP	EQUIPMENT	STR	STRUCTURAL
EW	EACH WAY	TJ	TOP
EXIST	EXISTING	TCX	TOP CHORD EXTENSION
EXP	EXPANSION	TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOF	TOP OF FOOTING
FDN	FOUNDATION	TOS	TOP OF STEEL
FFE	FINISHED FLOOR ELEVATION	TOW	TOP OF WALL
FOM	FACE OF MASONRY	TYP	TYPICAL
FOW	FACE OF WALL	UNO	UNLESS NOTED OTHERWISE
FS	FACE SIDE	VERT	VERTICAL
FTG	FOOTING	VIF	VERIFY IN FIELD
GA	GAUGE	W/	WITH
GALV	GALVANIZED	WWF	WELDED WIRE FABRIC
		WP	WORK POINT

NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

	Description	Date

Date Issued	Project No. 22038
Drawn By VNA	Sheet No. S0.3
Checked By MBC	
Sheet Title ABBREVIATION LIST AND SYMBOLS LEGEND	

STATEMENT OF SPECIAL INSPECTIONS

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE DESIGNERS OF RECORD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL FURNISH REPORTS TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. REPORTS SHALL INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

MONTHLY INTERIM REPORTS SHALL BE SUBMITTED TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

PROJECT INFORMATION
CODE ENFORCEMENT PROJECT #: ---
PERMIT #: ---
PROJECT NAME: GIVEN MEMORIAL LIBRARY
PROJECT ADDRESS: 150 CHEROKEE RD | PINEHURST NC 28374
OWNER: NAME
OWNER ADDRESS: STREET ADDRESS | CITY, STATE ZIP
SPECIAL INSPECTOR OF RECORD: TBD
SPECIAL INSPECTOR ADDRESS: STREET ADDRESS | CITY, STATE ZIP

DESIGN TEAM
STRUCTURAL (RDP/IRC) FIRM: STEWART ENGINEER OF RECORD: M. BRYAN COVINGTON IV, PE
ARCHITECTURAL FIRM: OAKLEY COLLIER ARCHITECT OF RECORD: JASON GABLE, AIA
MECHANICAL FIRM: --- ENGINEER OF RECORD: NAME, PE

SCHEDULE OF SPECIAL INSPECTIONS				
THE INSPECTION AND TESTING AGENTS SHALL BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE OWNER, PRIOR TO COMMENCING WORK.				
PRIOR TO STARTING WORK THE OWNER SHALL BE PROVIDED WITH THE NAME AND RESUME FOR THE DESIGNATED SPECIAL INSPECTOR FOR THE PROJECT. THE DESIGNATED SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND BE APPROVED BY THE OWNER. INDIVIDUALS PROVIDING INSPECTIONS SHALL MEET THE FOLLOWING MINIMUM CRITERIA OF CERTIFICATION AND/OR DOCUMENTED EXPERIENCE. WORK EXPERIENCE MUST BE RELATED TO THE FIELD FOR WHICH THE INSPECTOR IS BEING UTILIZED. WORK EXPERIENCE MAY BE GAINED BY WORKING FOR AN INSPECTION/TESTING AGENCY, AN ENGINEERING FIRM, OR A CONTRACTOR AS A TECHNICIAN, INSPECTOR OR ENGINEER.				
THE DESIGNATED SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR COLLECTING AND APPROVING DOCUMENTATION OF QUALIFICATIONS FOR ALL INSPECTORS. COPIES OF DOCUMENTATION OF QUALIFICATIONS, INCLUDING THE QUALIFICATIONS OF THE INDEPENDENT TESTING LABORATORY IF THEY ARE PROVIDING SPECIAL INSPECTION SERVICES, SHALL BE MAINTAINED BY THE SPECIAL INSPECTOR AND BE MADE AVAILABLE FOR OWNER REVIEW AS REQUESTED.				
THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE INSPECTION FREQUENCY INDICATED ON THE TABLES ARE "C" CONTINUOUS, "P" PERIODIC, AND "O" RANDOMIZED ON A DAILY BASIS. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS:				
REQD	ITEM	DIVISION	PRIMARY INSPECTOR/SUPERVISOR	
✗	IT-1	SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED	AS IDENTIFIED BY THE RDP/IRC	
✗	IT-2A	STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
	IT-2B	WELDING OF STRUCTURAL STEEL	ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR AWS D1.1 CERTIFIED WELDING INSPECTOR, OR NDT LEVEL III CERTIFICATE	
	IT-2C	COLD-FORMED STEEL DECKING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
	IT-2D	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
✗	IT-2E	COLD-FORMED STEEL FRAMING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
✗	IT-3	CONCRETE CONSTRUCTION	ICC REINFORCED CONCRETE SPECIAL INSPECTOR CERTIFICATE AND ACI CONCRETE FIELD TESTING TECHNICIAN CERTIFICATE, GRADE 1, OR ACI CONCRETE CONSTRUCTION SPECIAL INSPECTOR CERTIFICATE, OR NICET CONCRETE TECHNICIAN LEVEL III CERTIFICATE IN CONSTRUCTION MATERIALS TESTING	
✗	IT-4	MASONRY CONSTRUCTION	ICC STRUCTURAL MASONRY SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
	IT-5	WOOD CONSTRUCTION	ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
✗	IT-6	SOILS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR GENERALIST CERTIFICATE, OR ICC SOILS SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE	
	IT-7	DRIVEN DEEP FOUNDATIONS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR GENERALIST CERTIFICATE, OR ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE	
	IT-8	CAST-IN-PLACE DEEP FOUNDATIONS	SEE IT-7	
	IT-9A	HELICAL PILE FOUNDATIONS	SEE IT-7	
	IT-9B	RAMMED AGGREGATE PIERS AND STONE COLUMNS	SEE IT-7	
	IT-10	FABRICATED ITEMS	AS NOTED HEREIN FOR EACH COMPONENT TYPE	
	IT-11	WIND RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE	
	IT-12	SEISMIC RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE	
	IT-13A	SEISMIC RESISTANCE, STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING	AS NOTED HEREIN FOR EACH COMPONENT TYPE	
	IT-13B	SEISMIC RESISTANCE, WELDING OF STRUCTURAL STEEL	AS NOTED HEREIN FOR EACH COMPONENT TYPE	
	IT-13C	SEISMIC RESISTANCE, NON-DESTRUCTIVE TESTING OF WELDED JOINTS	AS NOTED HEREIN FOR EACH COMPONENT TYPE	
	IT-13D	SEISMIC RESISTANCE, STEEL DRIVEN DEEP FOUNDATIONS (H-PILES)	AS NOTED HEREIN FOR EACH COMPONENT TYPE	
	IT-14	SPRAYED FIRE-RESISTANT MATERIALS	ICC SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR CERTIFICATE, OR ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
	IT-15	MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	SEE IT-14	
	IT-16	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	AWCI EIFS INSPECTOR CERTIFICATE	
✗	IT-17	FIRE-RESISTANT PENETRATIONS AND JOINTS	ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)	
	IT-18	SMOKE CONTROL	REGISTERED PROFESSIONAL ENGINEER (MECHANICAL OR FIRE PROTECTION) AND CERTIFICATION AS AIR BALANCER, OR AABC TECHNICIAN CERTIFICATION (PLUS ONE YEAR OF RELATED EXPERIENCE)	

IT-1: SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED			
INSPECTION TASK		FREQ	REFERENCE
☐	1. CONSTRUCTION MATERIALS AND SYSTEMS THAT ARE ALTERNATIVES TO MATERIALS AND SYSTEMS PRESCRIBED BY THE IBC.	P	IBC 1705.1.1.1
☐	2. UNUSUAL DESIGN APPLICATIONS OF MATERIALS DESCRIBED IN THE IBC.	P	IBC 1705.1.1.2
☐	3. MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE IBC OR IN STANDARDS REFERENCED BY THE IBC.	P	IBC 1705.1.1.3
☐	4. PILES, PIERS, AND SPECIAL FOUNDATIONS	P	IBC 1705.1.2.1
☐	5. SPRAYED FIRE-RESISTANT MATERIALS	P	IBC 1705.1.2.2
☐	6. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	P	IBC 1705.1.2.3
☐	7. SMOKE CONTROL AND SMOKE EXHAUST SYSTEMS	P	IBC 1705.1.2.4
☒	8. RETAINING WALLS (>5' IN HEIGHT OF UNBALANCED BACKFILL)	P	IBC 1705.1.2.5
	A. VERIFY FOUNDATION SUPPORT SYSTEM IS ADEQUATE FOR THE INTENDED SITE CONDITIONS.	P	IBC 1807.2.5.1
	B. VERIFY THAT RETAINING WALL MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.	P	IBC 1807.2.5.2
	C. VERIFY THAT ACTUAL SOIL CONDITIONS ARE SIMILAR TO THOSE ANTICIPATED BY THE APPROVED ENGINEERED DESIGN.	P	IBC 1807.2.5.3
	D. EXAMINE BACKFILL MATERIALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.	P	IBC 1807.2.5.4
	E. CONFIRM THAT ALL SUBSOIL DRAINAGE PIPING IS UNDAMAGED, DRAINS FREELY TO THE DESIGNATED OUTLET OR STRUCTURE, AND HAS BEEN INSTALLED PER THE APPROVED ENGINEERED DESIGN.	P	IBC 1807.2.5.4
FOR SOILS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.6 AND THE APPLICABLE SCHEDULES HEREIN. FOR CONCRETE WALLS AND FOOTINGS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.3 AND THE APPLICABLE SCHEDULES HEREIN. FOR MASONRY WALLS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.4 AND THE APPLICABLE SCHEDULES HEREIN.			

IT-2A: STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING			
INSPECTION TASK	FREQ	REFERENCE	
1. FABRICATOR CERTIFICATION/VERIFICATION OF QUALITY CONTROL PROCEDURES			
A. VERIFY FABRICATOR QUALIFICATIONS.	C	IBC 1704.2.5.1	
B. REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS.	C	AISC 360 N5.2	
C. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION.	C	IBC 1704.5	
2. INSPECTIONS PRIOR TO HIGH-STRENGTH BOLTING AT PRE-TENSIONED AND SLIP-CRITICAL JOINTS:			
A. COLLECT MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS.	C	AISC 360 TABLE N5.6-1	
B. VERIFY FASTENERS ARE MARKED PER ASTM REQUIREMENTS.	P	AISC 360 TABLE N5.6-1	
C. ENSURE CORRECT FASTENERS AND BOLTING PROCEDURES ARE SELECTED FOR JOINT DETAILS. VERIFY GRADE, TYPE, AND BOLT LENGTH (IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	P	AISC 360 TABLE N5.6-1	
D. VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION (WHEN SPECIFIED), COMPLY WITH THE CONTRACT DOCUMENTS.	P	AISC 360 TABLE N5.6-1	
E. OBSERVE AND DOCUMENT PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL FOR FASTENER ASSEMBLIES AND METHODS.	P	AISC 360 TABLE N5.6-1	
F. VERIFY THE PROTECTED STORAGE FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	P	AISC 360 TABLE N5.6-1	
3. INSPECTIONS DURING HIGH-STRENGTH BOLTING AT PRE-TENSIONED AND SLIP-CRITICAL JOINTS:	P	AISC 360 TABLE N5.6-2	
A. ENSURE CORRECT FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS/NUTS (WHEN SPECIFIED) ARE POSITIONED AS REQUIRED.	P	AISC 360 TABLE N5.6-2	
B. VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRE-TENSIONING.	P	AISC 360 TABLE N5.6-2	
C. VERIFY FASTENER COMPONENTS NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	P	AISC 360 TABLE N5.6-2	
D. ENSURE FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH RSCC, PROGRESSING FROM THE MOST RIGID POINT TOWARDS FREE EDGES.	P	AISC 360 TABLE N5.6-2	
4. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER HIGH-STRENGTH BOLTING IS COMPLETE.	C	AISC 360 TABLE N5.6-3	
5. VISUALLY INSPECT FOR CRACKS THE EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF GALVANIZED RECTANGULAR HSS MEMBERS.	P	AISC 360 N5.7	
6. STRUCTURAL DETAILS			
A. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR RODS AND OTHER EMBEDDED ITEMS. THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE.	P	AISC 360 N5.8	
B. INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONTRACT DOCUMENTS.	P	AISC 360 N5.8	

IT-2B: WELDING OF STRUCTURAL STEEL			
INSPECTION TASK	FREQ	REFERENCE	
1. INSPECTIONS PRIOR TO WELDING:			
A. COLLECT AND REVIEW WELDING PROCEDURE SPECIFICATION (WPS) AND VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES.	C	AISC 360 N5.4	
B. CONFIRM WELD MATERIAL TYPE AND GRADE.	P	AISC 360 TABLE N5.4-1	
C. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND YEAR OF RELATED EXPERIENCE.	P	AISC 360 TABLE N5.4-1	
D. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY.	P	AISC 360 TABLE N5.4-1	
E. INSPECT FIT-UP FOR CIP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY.	P	AISC 360 TABLE N5.4-1	
F. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES.	P	AISC 360 TABLE N5.4-1	
2. INSPECTIONS DURING WELDING:			
A. VERIFY WELDER QUALIFICATIONS.	P	AISC 360 TABLE N5.4-2	
B. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE.	P	AISC 360 TABLE N5.4-2	
C. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS.	P	AISC 360 TABLE N5.4-2	
D. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION.	P	AISC 360 TABLE N5.4-2	
E. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS.	P	AISC 360 TABLE N5.4-2	
F. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	C	AISC 360 TABLE N5.4-2	
3. INSPECTIONS AFTER WELDING:			
A. VERIFY WELDS HAVE BEEN CLEANED.	P	AISC 360 N5.4, N5.5	
B. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS.	C	AISC 360 TABLE N5.4-3	
C. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY.	C	AISC 360 TABLE N5.4-3	
D. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1.	C	AISC 360 TABLE N5.4-3	
E. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES, AND STIFFENERS.	C	AISC 360 TABLE N5.4-3	
F. INSPECT WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES FOR CRACKS.	C	AISC 360 TABLE N5.4-3	
G. CONDUCT ULTRASONIC TESTING (UT) OF CIP GROOVE WELDS IN MATERIALS ≥ 5/16":			
100% OF WELDS WHERE PRIMARILY SUPPORTING GRAVITY LOADS (I.E. CANTILEVERS)	C	AISC 360 N5.5	
100% OF WELDS SUBJECT TO FATIGUE	C	AISC 360 N5.5c, TABLE A-3.1	
100% OF REMAINING WELDS IN RISK CATEGORY II STRUCTURES	C	AISC 360 N5.5	
100% OF REMAINING WELDS IN RISK CATEGORY III AND IV STRUCTURES.	C	AISC 360 N5.5	
H. VERIFY BACKING AND WELD TABS ARE REMOVED (AS REQUIRED) PER CONTRACT DOCUMENTS.	C	AISC 360 TABLE N5.4-3	
I. OBSERVE AND INSPECT WELD REPAIR ACTIVITIES.	C	AISC 360 TABLE N5.4-3	
J. DOCUMENT ACCEPTANCE/REJECTION OF WELDED JOINTS AND MEMBERS.	C	AISC 360 TABLE N5.4-3, N5.5g	

IT-2E: COLD-FORMED STEEL FRAMING			
INSPECTION TASK	FREQ	REFERENCE	
1. FABRICATOR CERTIFICATION/VERIFICATION OF QUALITY CONTROL PROCEDURES			
A. VERIFY FABRICATOR QUALIFICATIONS.	C	IBC 1704.2.5.1	
B. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION.	C	IBC 1704.5	
2. FOR TRUSSES CLEAR SPANNING 60 FEET OR MORE, VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACINGS AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	P	IBC 1705.2.4	

IT-3: CONCRETE CONSTRUCTION			
INSPECTION TASK	FREQ	REFERENCE	
✗ 1. INSPECT REINFORCEMENT, INCLUDING POST-TENSIONING TENDONS (IF APPLICABLE), AND VERIFY PLACEMENT.	P	IBC 1908.4 ACI 318 20, 25.2, 25.3, 26.6.1-26.6.3	
✗ 2. REINFORCING BAR WELDING:			
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 AND COLLECT REPORTS.	P	IBC 1704.5 ACI 318 26.6.4	
B. INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16".	P	ACI 318 26.6.4	
C. INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS ≤ 5/16".	C	ACI 318 26.6.4	
✗ 3. CONCRETE ANCHORS:			
A. INSPECT ANCHORS CAST IN CONCRETE.	P	ACI 318 17.8.2	
B. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION LOADS. PERIODIC INSPECTION REQUIRED FOR ALL OTHER CONDITIONS.	C	ACI 318 17.8.2, 17.8.2.4	
C. INSPECT MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE.	P	ACI 318 17.8.2	
✗ 4. COLLECT MIX DESIGNS AND VERIFY THE CORRECT MIX USED DURING INSTALLATION.	P	IBC 1904.1, 1904.2, 1908.2, 1908.3	
✗ 5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	C	ACI 318 19, 26.4.3, 26.4.4	
✗ 6. INSPECT CONCRETE AND SHOTCRETE (IF APPLICABLE) PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	C	IBC 1908.10 ACI 318 26.4, 26.12	
□ 7. COLLECT REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE WHEN RECONSTRUCTION TESTS ARE REQUIRED BY IBC 1908.4.	C	IBC 1908.6-1908.8 ACI 318 26.5	
✗ 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	P	IBC 1704.5, 1908.5	
□ 9. INSPECTIONS FOR POST-TENSIONED CONCRETE:			
A. OBSERVE APPLICATION OF POST-TENSIONING FORCE.	P	IBC 1908.9 ACI 318 26.5.3-26.5.5	
B. INSPECT GROUTING OF BONDED POST-TENSIONING TENDONS.	C	ACI 318 26.10	
□ 10. VERIFY CONCRETE STRENGTH PRIOR TO STRESSING OF POST-TENSIONING TENDONS AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM POST-TENSIONED/MILD BEAMS AND STRUCTURAL SLABS.	C	ACI 318 26.10	
□ 11. INSPECT ERECTION OF PRECAST MEMBERS.	P	ACI 318 26.11.2	
✗ 12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	P	ACI 318 26.9	
□ 13. COLLECT MILL TEST REPORTS FOR ASTM A615 REBAR USED IN SPECIAL REINFORCED CONCRETE MOMENT FRAMES AND SPECIAL REINFORCED CONCRETE SHEAR WALLS.	P	ACI 318 26.11.1.2(b)	
	C	IBC 1704.5 ACI 318 20.2.2.5	

IT-4: MASONRY CONSTRUCTION (LEVEL A)			
<u>INSPECTION TASK</u>		<u>FREQ</u>	<u>REFERENCE</u>
1. PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION.		P	ACI 530 TABLE 3.1.1 ACI 530.1 1.5
LEVEL A INSPECTION IS REQUIRED FOR EMPIRICALLY/PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY I, II, OR III STRUCTURES.			

IT-6: SOILS			
INSPECTION TASK	FREQ	REFERENCE	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	P	IBC 1705.6	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	P	IBC 1705.6	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	P	IBC 1705.6	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT HEIGHTS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	C	IBC 1705.6	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.	P	IBC 1705.6	

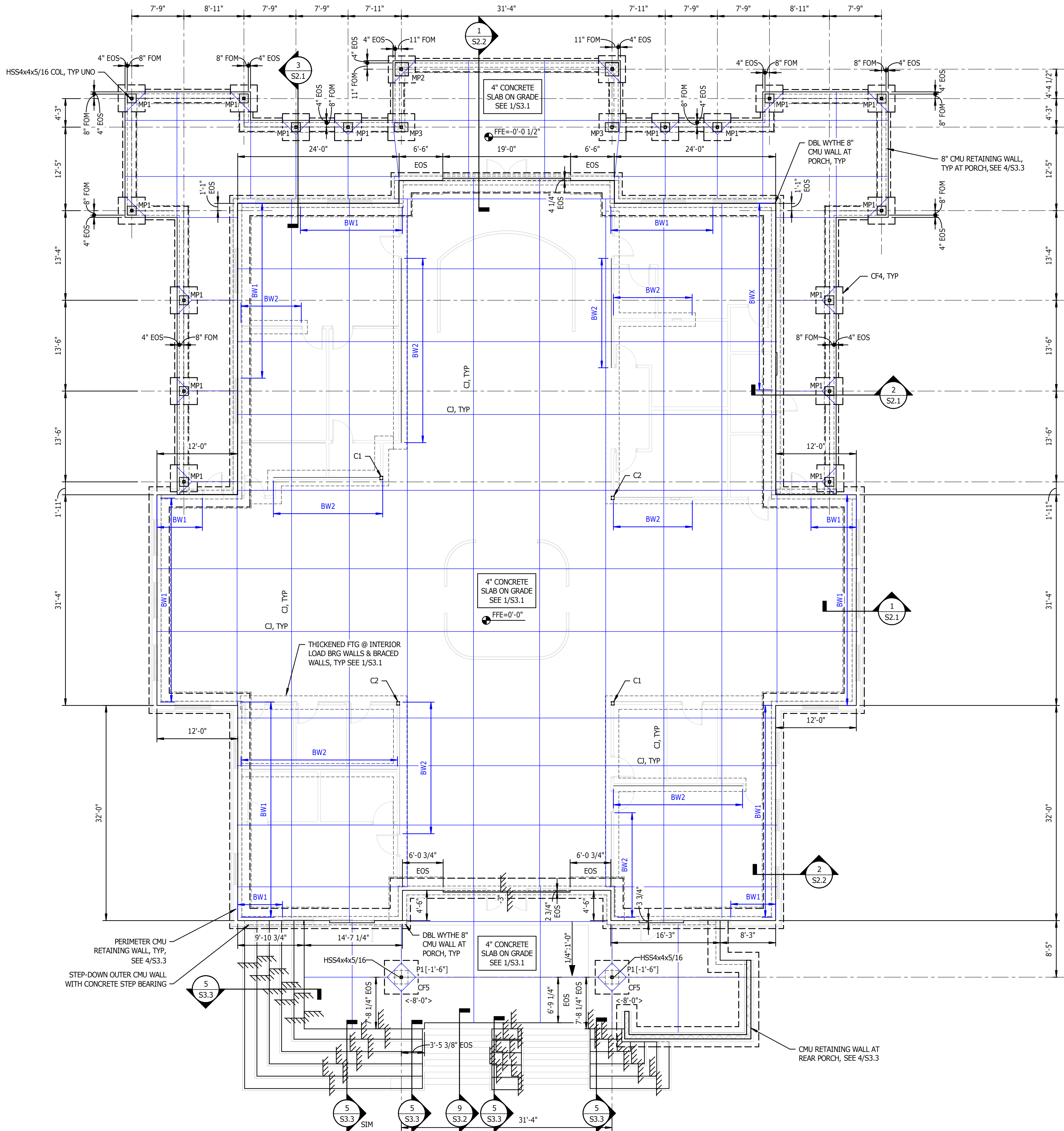
IT-17: FIRE-RESISTANT PENETRATIONS AND JOINTS			
INSPECTION TASK	FREQ	REFERENCE	
1. INSPECT THROUGH-PENETRATION FIRESTOP SYSTEMS AT FIRE WALLS, FIRE BARRIERS, SMOKE BARRIERS AND FIRE PARTITION WALLS IN ACCORDANCE WITH ASTM E2174.	P	IBC 714.4.1.2, 1705.17.1	
2. INSPECT PENETRATION FIRESTOP SYSTEMS AT PENETRATIONS THROUGH MEMBRANES THAT ARE PART OF A HORIZONTAL ASSEMBLY IN ACCORDANCE WITH ASTM E2174.			
A. VERIFY MATERIALS BEFORE INSTALLATION.	P	IBC 714.5.2, 1705.17.1	
B. VERIFY INSTALLATION AGAINST THE CONTRACT DOCUMENTS AND APPROVED MATERIAL/INSTALLATION SUBMITTALS.	P	IBC 714.5.2, 1705.17.1	
C. FOR EACH TYPE OF FIRESTOP, WITNESS 10% OF INSTALLATIONS - OR DESTRUCTIVE TESTING ON 2% OF INSTALLATIONS FOR 10,000 SF FLOOR AREA.	P	IBC 714.5.2, 1705.17.1	
3. INSTALLATION OF FIRE-RESISTANT JOINT SYSTEMS IN ACCORDANCE WITH ASTM E2393			

1
S1.1

FOUNDATION PLAN

- 1/8" = 1'-0"
- FOUNDATION PLAN NOTES:
- SEE S0.1, S0.2 & S0.3 FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOL LEGEND.
 - REFERENCE FINISHED FLOOR ELEVATION 0'-0". ACTUAL ELEVATION IS 500.00'
 - SEE S3.1 FOR TYPICAL SLAB CONSTRUCTION DETAILS.
 - DIMENSIONS ARE TO OUTSIDE FACE OF FRAMING, UNO. REFER TO ARCHITECTURAL DRAWINGS FOR ALL WALL LOCATIONS AND DIMENSIONS.
 - SLOPE EXTERIOR SLABS, SIDEWALKS, AND PAVING AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

SPREAD FOOTING SCHEDULE					
MARK	SIZE			REINFORCEMENT (EACH WAY)	
	WIDTH	LENGTH	DEPTH	TOP	BOTTOM
CF4	4'-0"	4'-0"	1'-4"	(5)#5	(5)#5



NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions	Description	Date
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Date Issue Date	Project No. 22038
Drawn By VNA	Sheet No. S1.1
Checked By MBC	Sheet Title FOUNDATION PLAN

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

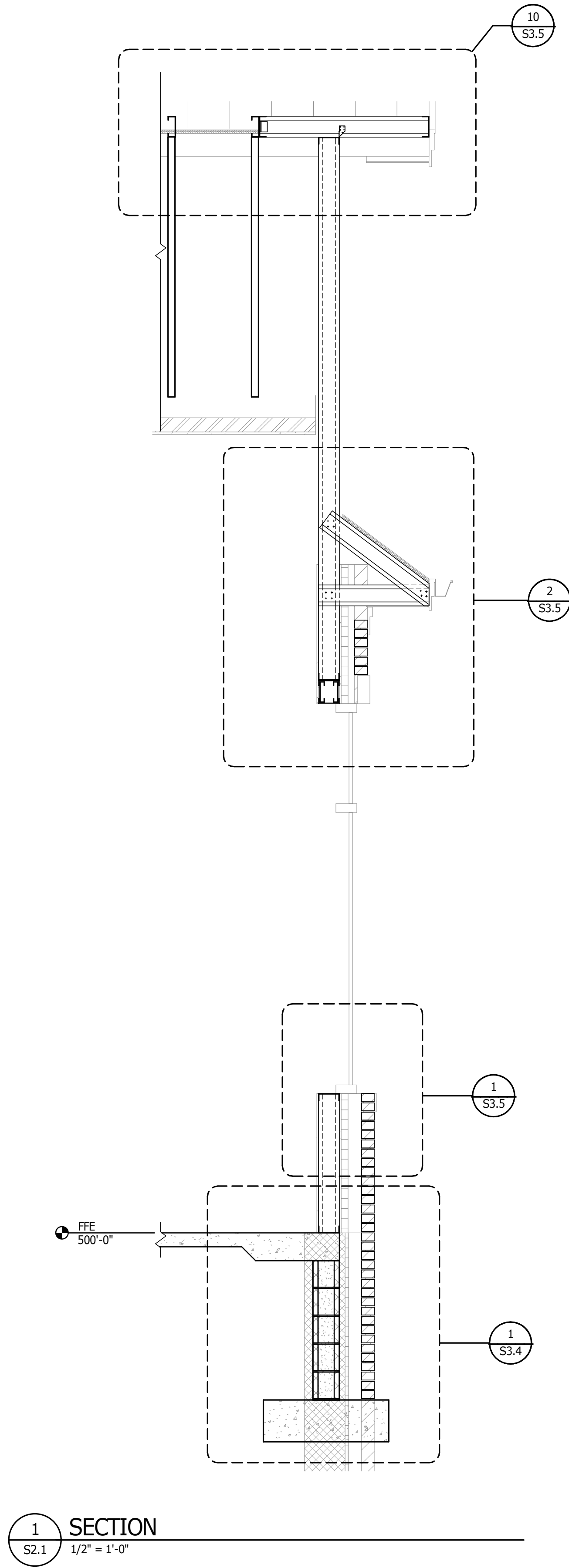
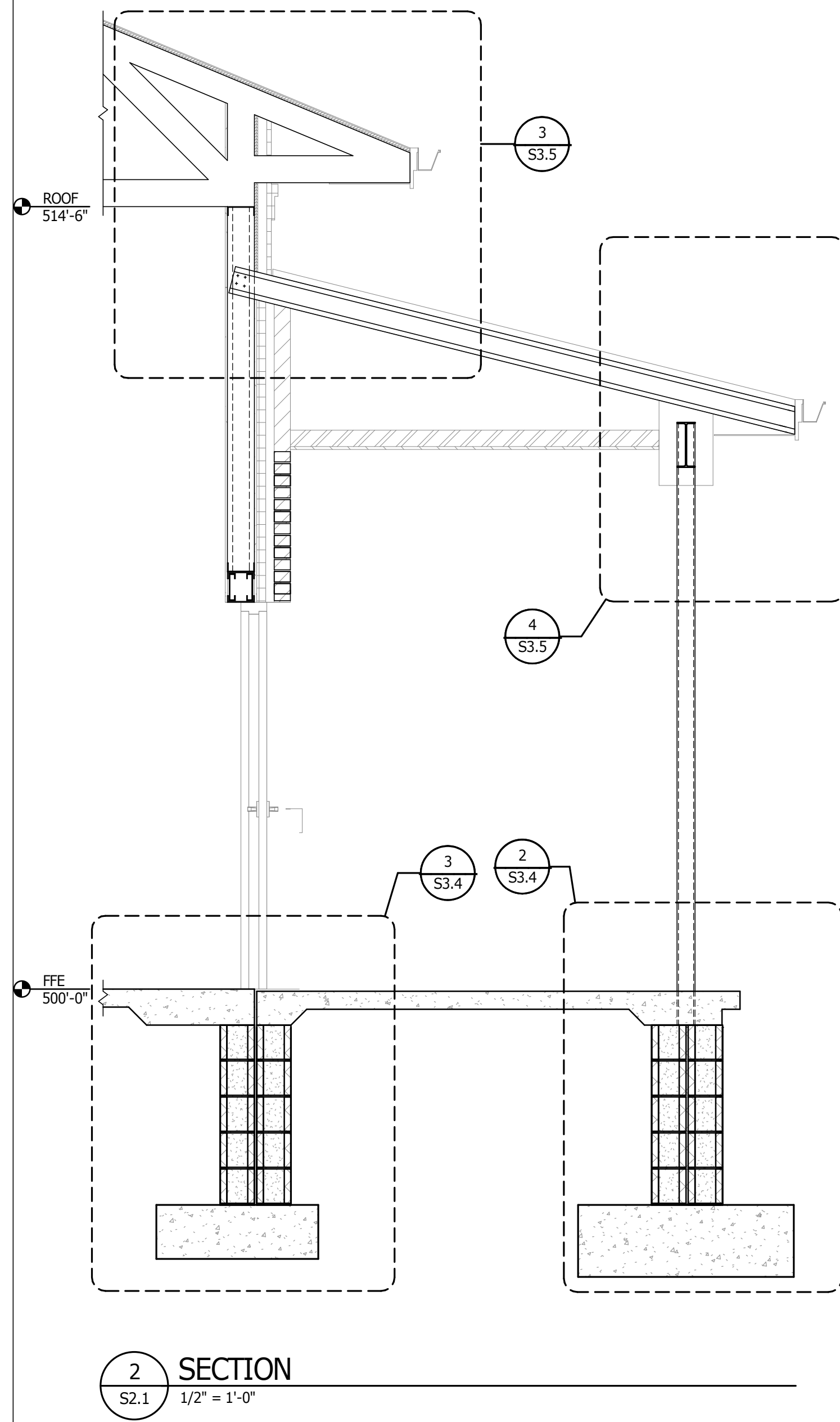
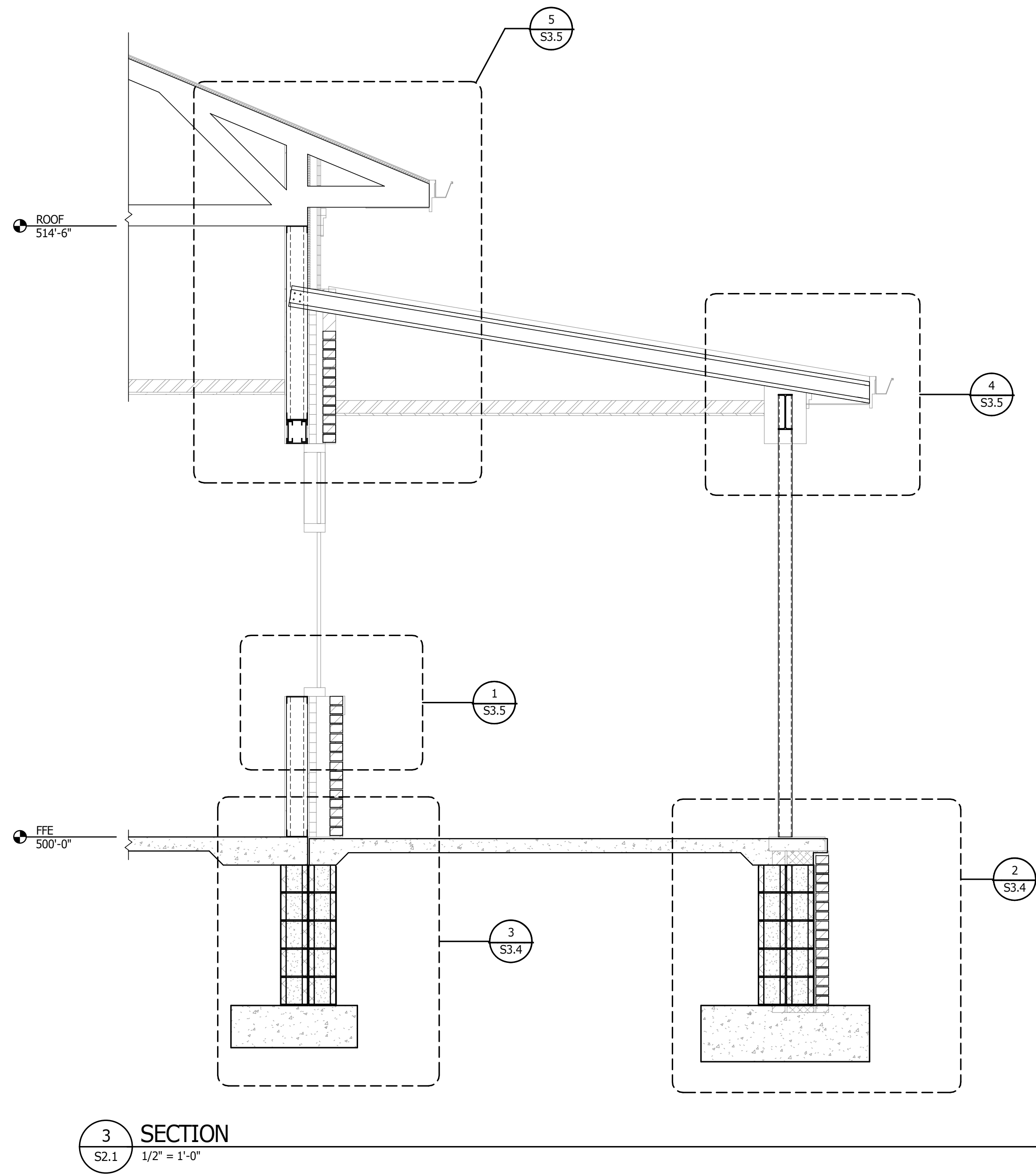
NEW CONSTRUCTION FOR

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

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for all Dimensions.

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#			
Date	Project No.		
Issue Date	22038		
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VNA	S1.2		
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MBC	Sheet Title		
ROOF FRAMING PLAN			



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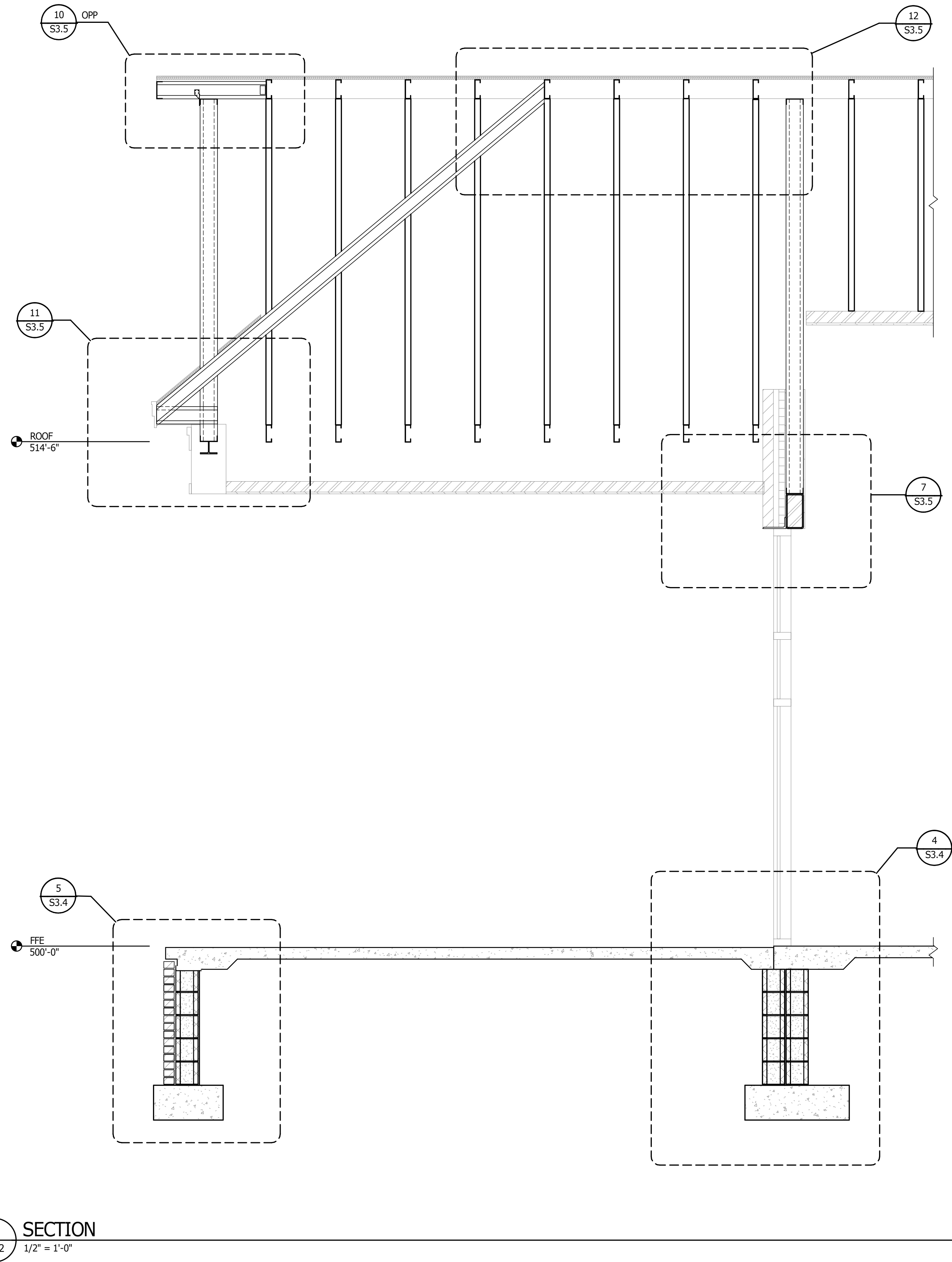
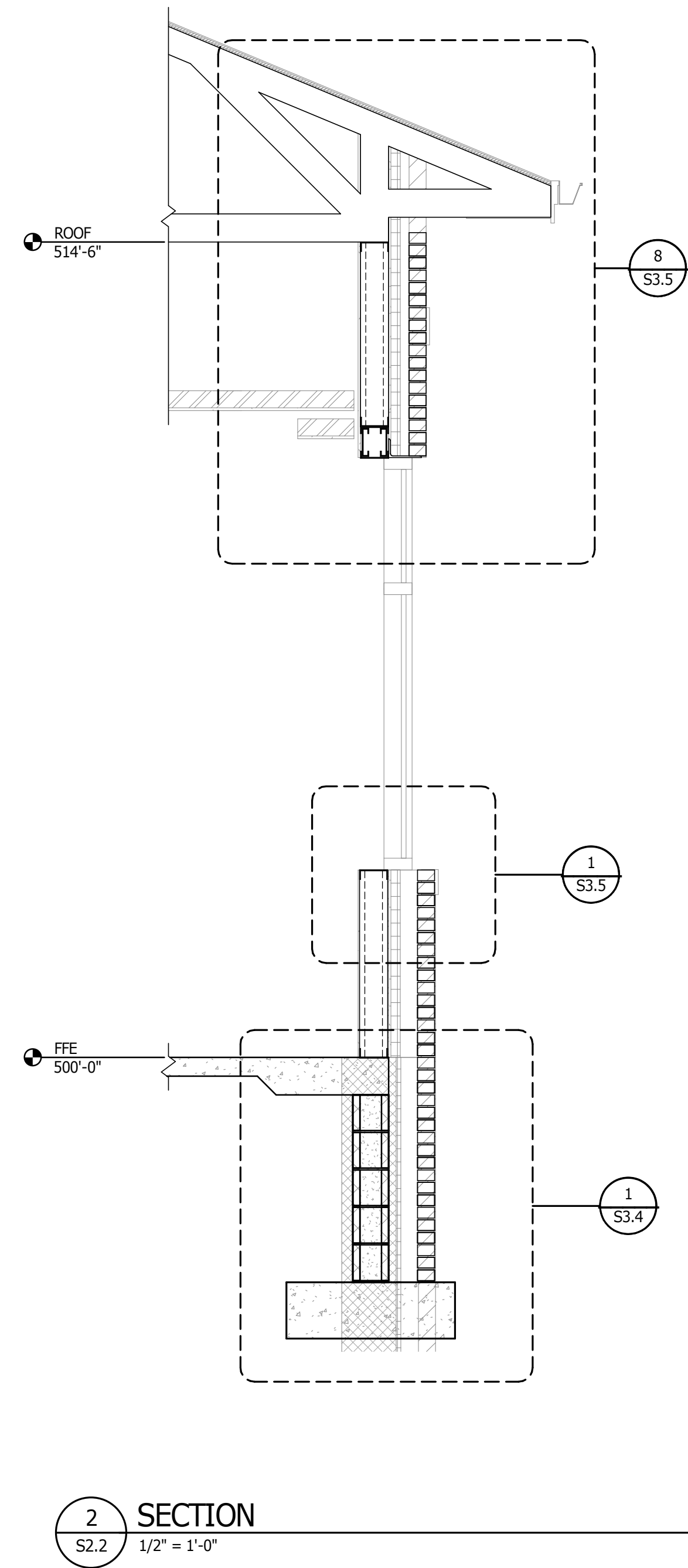
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start. Contractor shall
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for all Dimensions.

Revisions
1/ Description Date

Date Issue Date	Project No. 22038
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Checked By MBC	

Sheet Title
BUILDING SECTION



NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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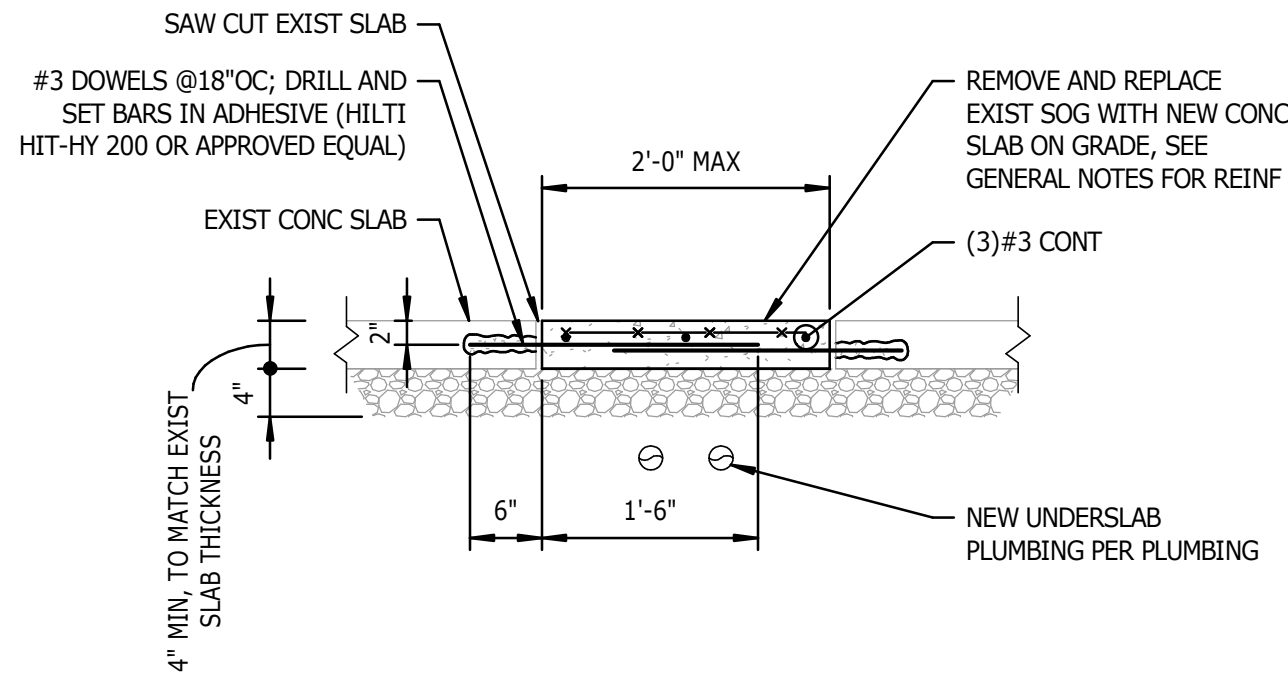
PRELIMINARY NOT FOR CONSTRUCTION

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start. Contractor shall
verify & be responsible
for all Dimensions.

Revisions
Description Date

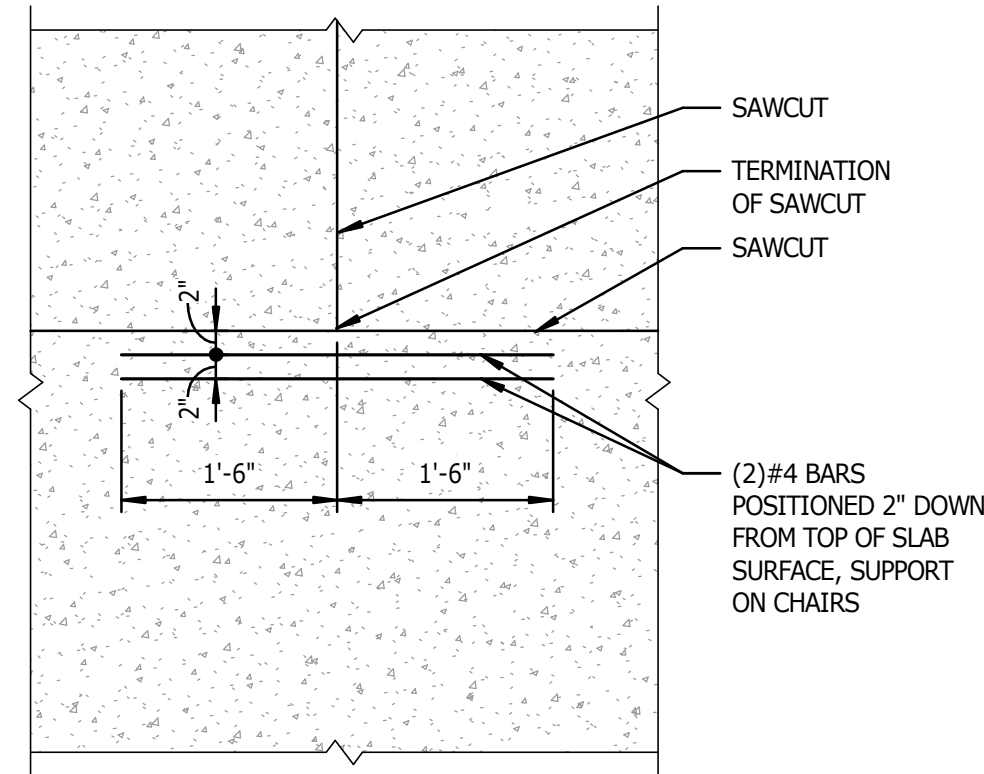
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Drawn By VNA	Sheet No. S2.2
Checked By MBC	

Sheet Title
BUILDING SECTION

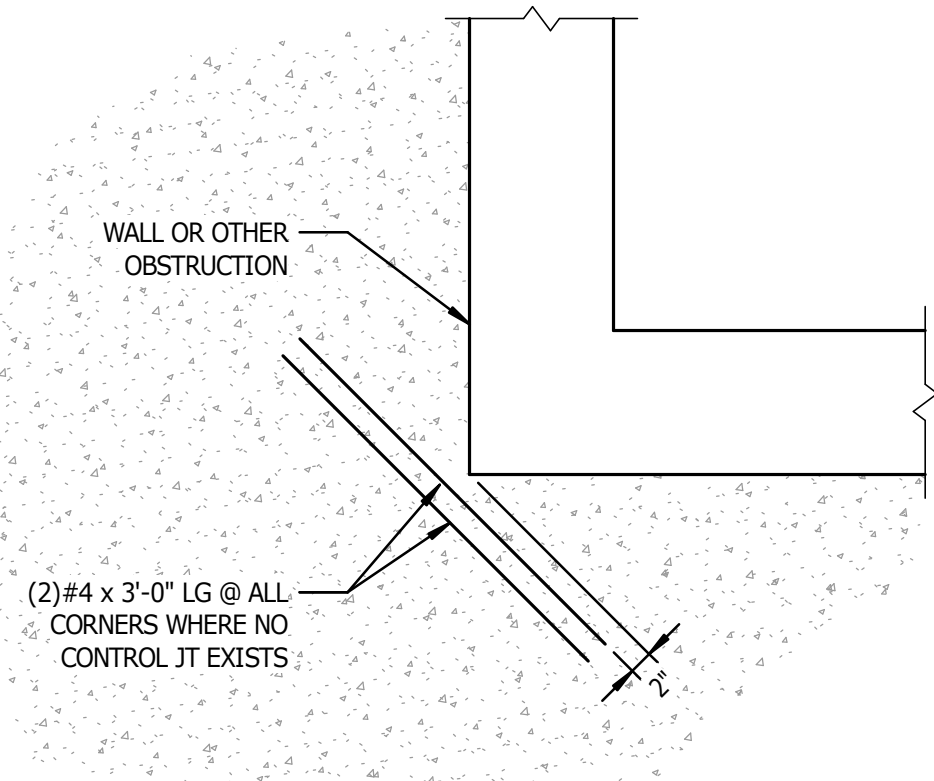


- NOTES:
1. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR LOCATIONS WHERE EXISTING SLAB REMOVAL AND REPLACEMENT IS REQUIRED.
 2. INFILL ANY TRENCHES REQUIRED FOR UPFIT WITH COMPACTED #57 STONE PRIOR TO REPLACING SLAB ON GRADE.
 3. SEAL JOINT IN NEW VAPOR BARRIER WITH EXISTING.

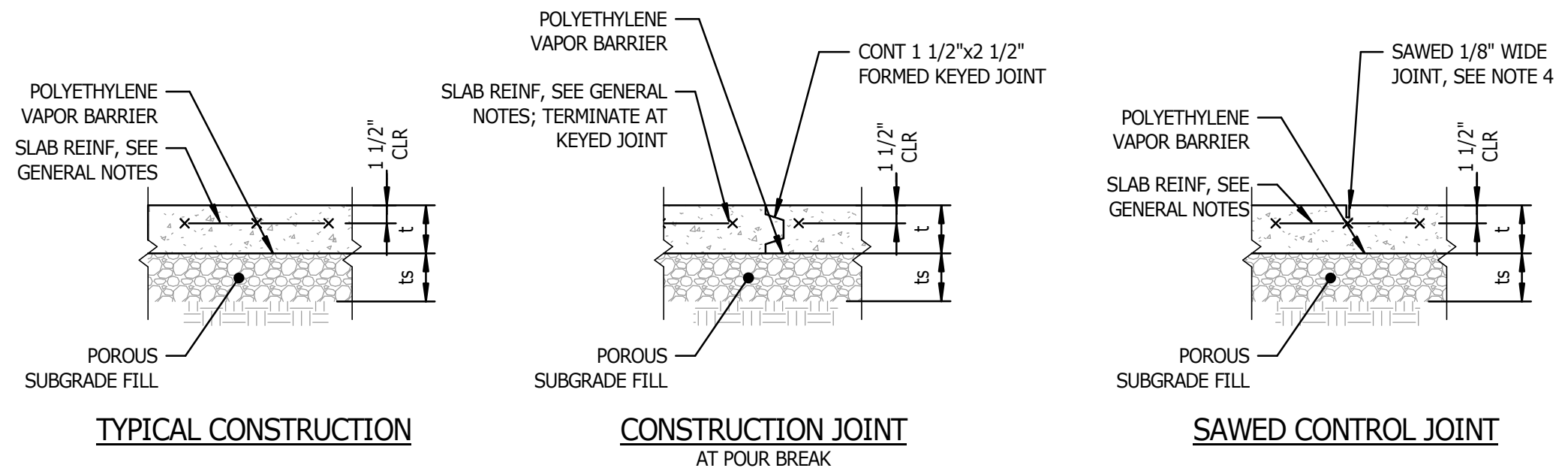
10 TYPICAL SLAB ON GRADE REPAIR
S3.1 NTS



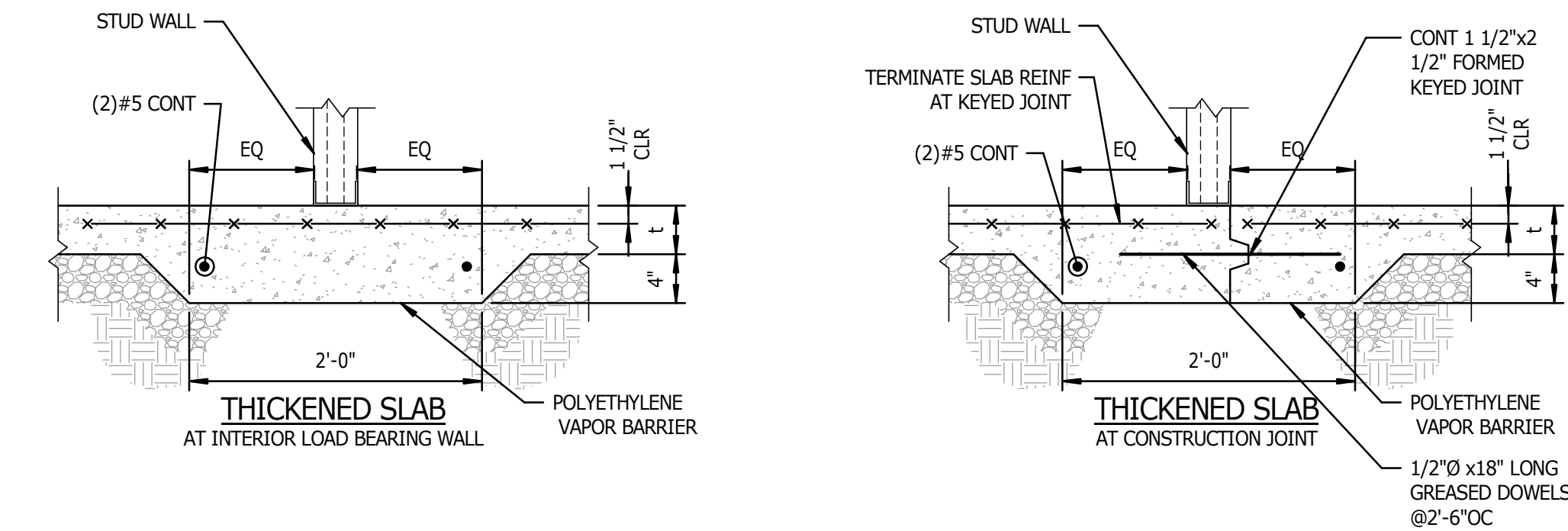
7 TYPICAL AT CONTROL JOINT TERMINATION
S3.1 NTS



8 TYPICAL SLAB AT CORNERS
S3.1 NTS

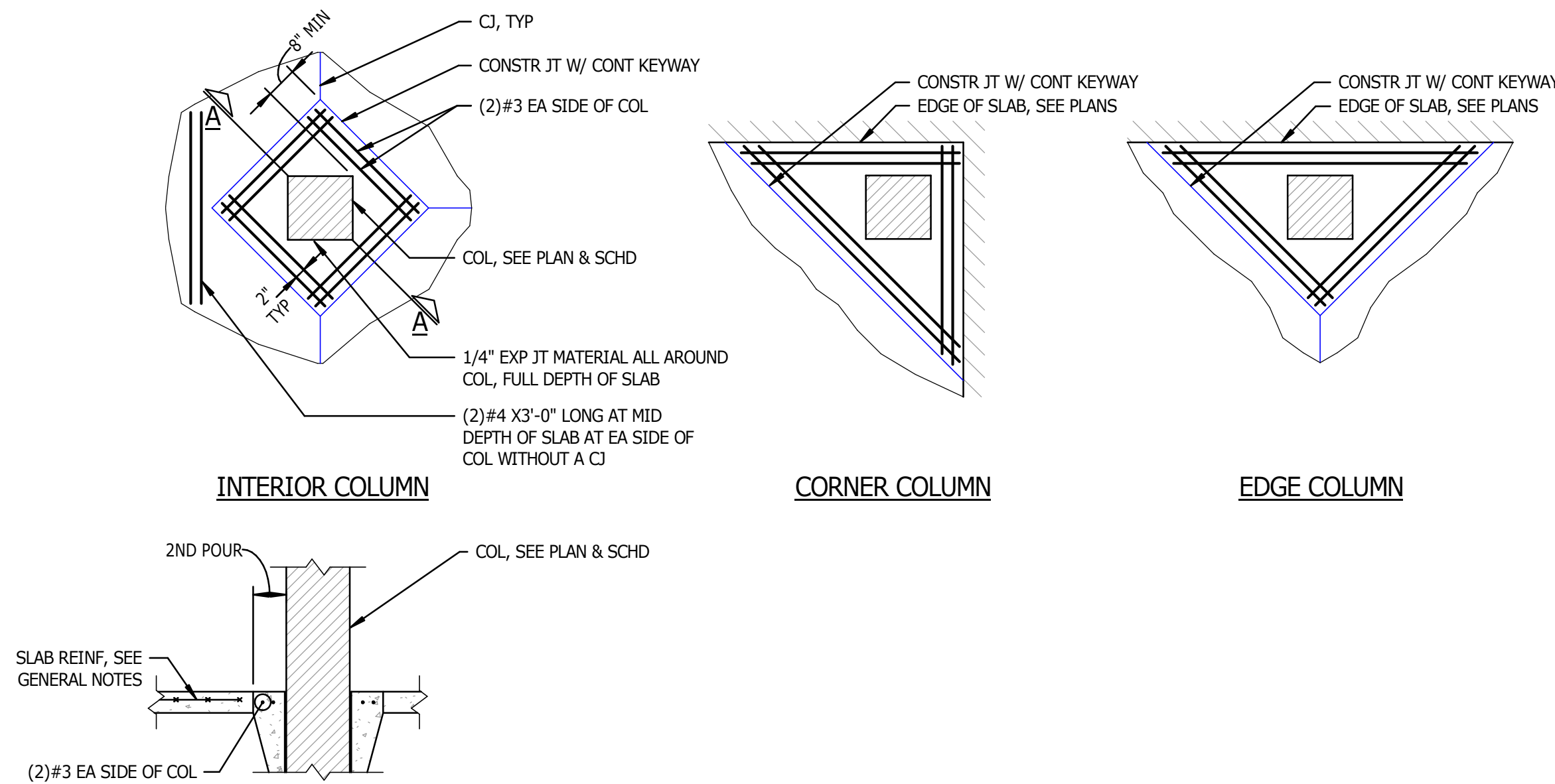


TYPICAL CONSTRUCTION CONSTRUCTION JOINT AT POUR BREAK SAWED CONTROL JOINT

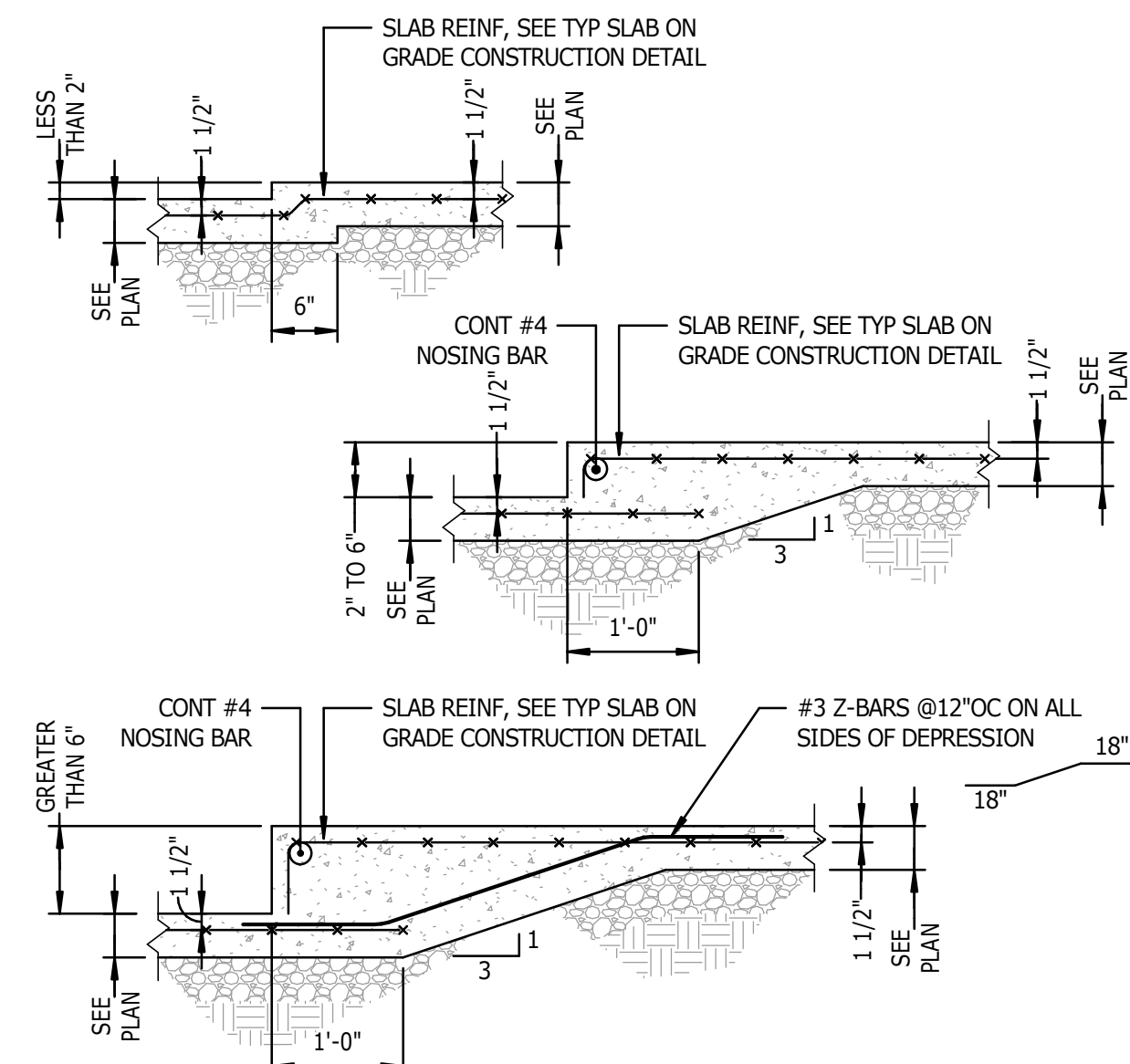


- NOTES:
1. 't' DENOTES SLAB THICKNESS, SEE PLANS. 'ts' DENOTES POROUS SUBGRADE FILL THICKNESS, SEE "FOUNDATION" GENERAL NOTES.
 2. SEE PLANS FOR LOCATION OF CONTROL JOINTS. WHERE NOT SHOWN ON PLAN, CONTACT THE ENGINEER.
 3. CUT JOINTS SHALL BE 1/4t (1/3t FOR FIBER-REINFORCED SLABS) OR 1" DEEP WHICHEVER IS GREATER. SAW CUT CONTROL JOINTS WITHIN 8 HOURS OF SLAB POUR.
 4. 15ML-THICK POLYETHYLENE VAPOR BARRIER TO BE PLACED UNDER ALL SLABS, TURNDOWNS, TRENCHES, TRENCH DRAINS, GRADE BEAMS, ETC.

1 TYPICAL SLAB ON GRADE
S3.1 NTS



6 TYPICAL COLUMN ISOLATION JOINTS
S3.1 NTS



3 TYPICAL STEP IN SLAB ON GRADE
S3.1 NTS

NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

OAKLEY
COLLIER
ARCHITECTS
OCA

109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
300 W. Warren Street, Raleigh, NC 27601

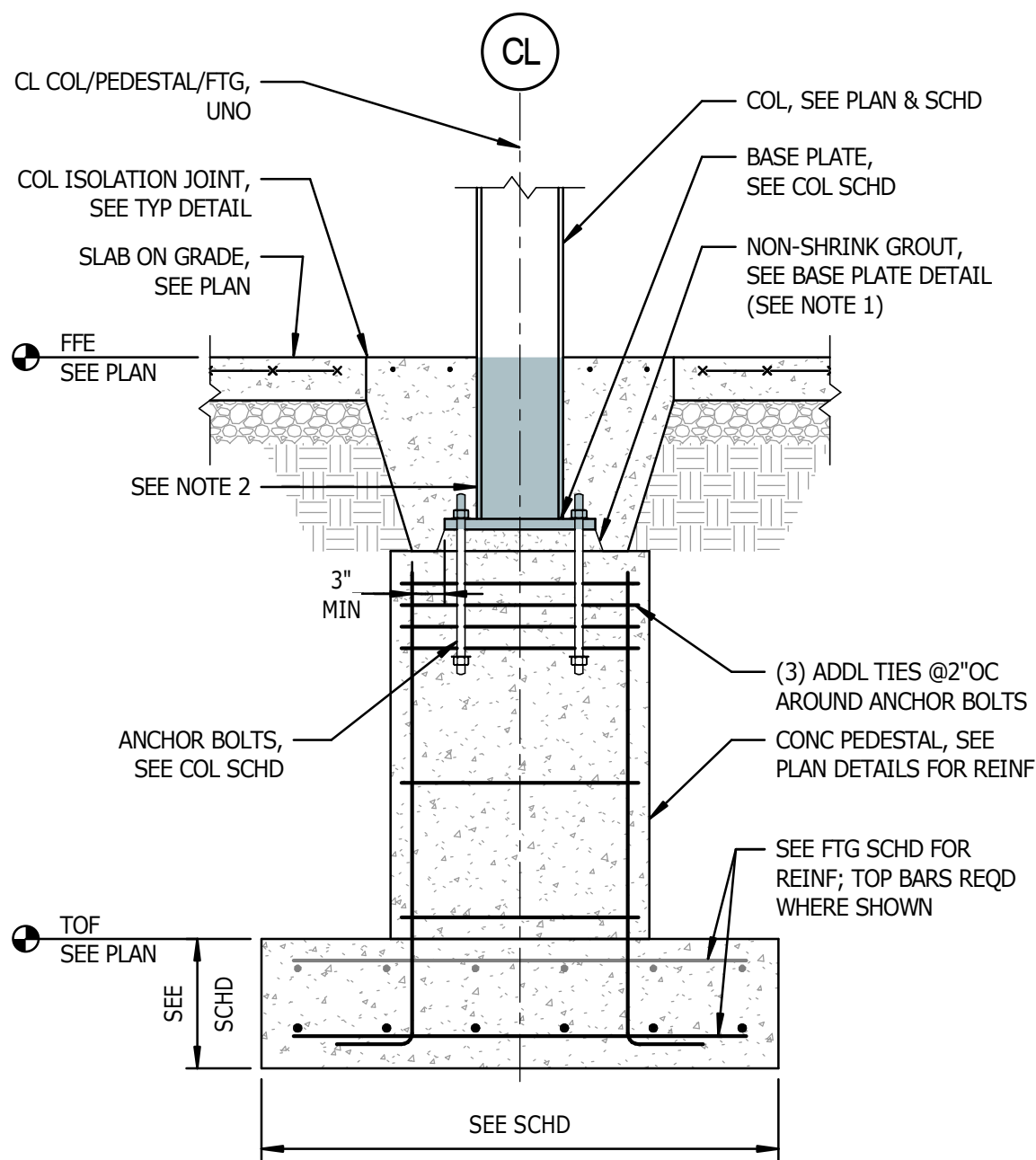
PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
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Revisions
Description Date

Date
Issue Date
Project No.
22038
Drawn By
VNA
Sheet No.
S3.1
Checked By
MBC
Sheet Title
SLAB ON GRADE DETAILS



- NOTES:
1. ALL BASE PLATES TO BE FULLY LEVELED AND GROUTED PRIOR TO ANY ELEVATED SLAB POUR.
 2. WHERE COLUMN BASE IS OUTSIDE THE BUILDING ENVELOPE OR WHERE SECONDARY SLAB ISOLATION JOINTS ARE NOT EMPLOYED, COAT ALL STEEL BELOW GRADE WITH AN APPROVED ASPHALTIC PAINT.
 3. PROVIDE STANDARD ACI 90° HOOK AT BOTTOM END OF ALL VERTICAL BARS IN PEDESTAL.

10
S3.2
3/4" = 1'-0"

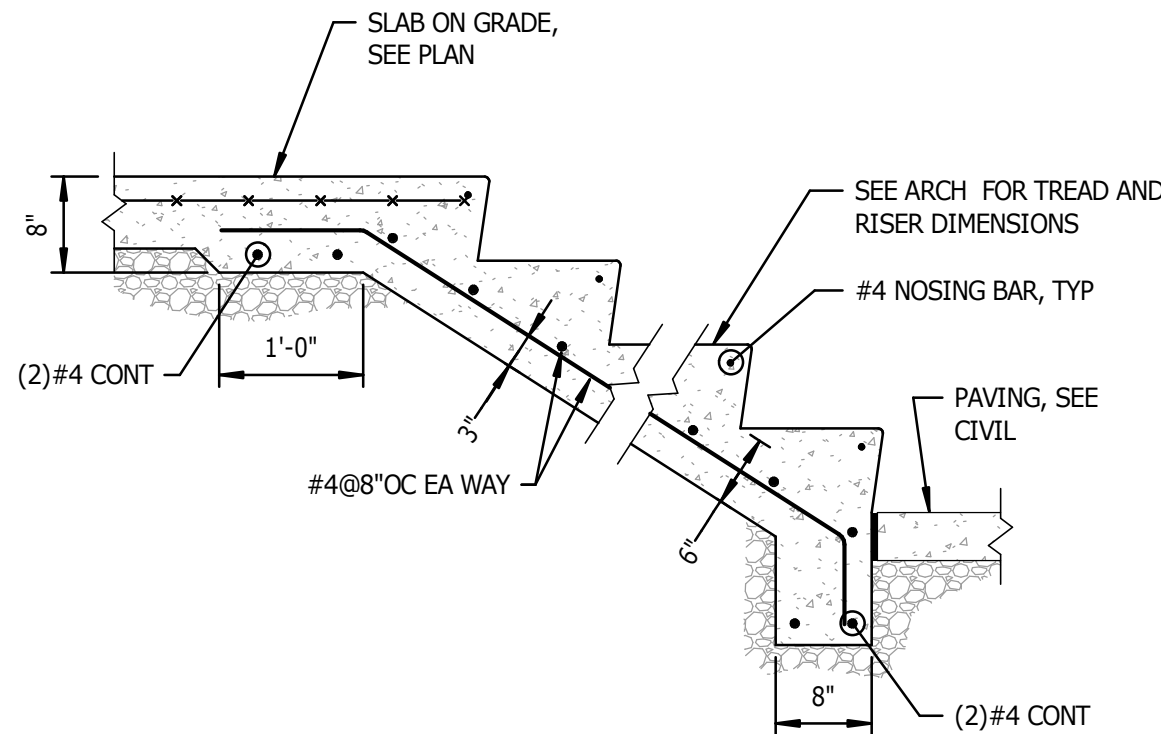
TYPICAL FOOTING AT PEDESTAL

CONCRETE REINFORCING SPLICE LENGTH SCHEDULE												
BAR SIZE	f'c = 3,000 PSI						f'c = 4,000 PSI					
	HORIZ BARS		OTHER BARS		HORIZ BARS		OTHER BARS		HORIZ BARS		OTHER BARS	
	CASE		CASE		CASE		CASE		CASE		CASE	
	I	II	I	II	I	II	I	II	I	II	I	II
#3	28"	42"	22"	32"	24"	36"	19"	28"	22"	33"	17"	25"
#4	37"	56"	29"	43"	32"	48"	25"	37"	29"	43"	22"	33"
#5	47"	70"	36"	54"	40"	60"	31"	47"	36"	54"	28"	42"
#6	56"	84"	43"	64"	48"	72"	37"	56"	43"	65"	33"	50"
#7	81"	122"	63"	94"	70"	106"	54"	81"	63"	94"	49"	73"
#8	93"	139"	72"	107"	80"	121"	62"	93"	72"	108"	55"	83"
#9	105"	157"	81"	121"	91"	136"	70"	105"	81"	122"	63"	94"
#10	118"	177"	91"	136"	102"	153"	79"	118"	91"	137"	70"	105"
#11	131"	196"	101"	151"	113"	170"	87"	131"	101"	152"	78"	117"
CATEGORY			CASE I			CASE II						
BEAMS AND COLUMNS			clr ≥ d _b , s ≥ 2d _b , AND STIRRUPS PROVIDED OVER ENTIRE SPLICE LENGTH			clr < d _b AND s < 2d _b						
OTHER MEMBERS			clr > d _b AND s ≥ 3d _b			clr < d _b OR s < 3d _b						

- NOTES:
1. FOR CONCRETE STRENGTHS NOT PROVIDED, USE THE SPLICE LENGTH FOR THE LOWER CONCRETE STRENGTH AS SHOWN IN THE TABLE.
 2. SPLICE LENGTHS BASED ON NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT, INCREASE SPLICE LENGTH BY 30%.
 3. AVOID SPLICES IN REGIONS OF MAXIMUM MOMENT. IF THIS IS NOT POSSIBLE STAGGER SPLICES SO THAT NOT MORE THAN 50% OF THE BARS ARE SPLICED WITHIN A REQUIRED SPLICE LENGTH. OTHERWISE INCREASE SPLICE LENGTH BY 30%.
 4. "HORIZ" BARS ARE ANY HORIZONTAL BARS PLACED WITH MORE THAN 12" OF CONCRETE IN THE MEMBER BELOW THE SPLICE.
s = C-C SPACING OF BARS BEING DEVELOPED OR SPLICED.
clr = CLEAR COVER OF BARS.

7
S3.2
NTS

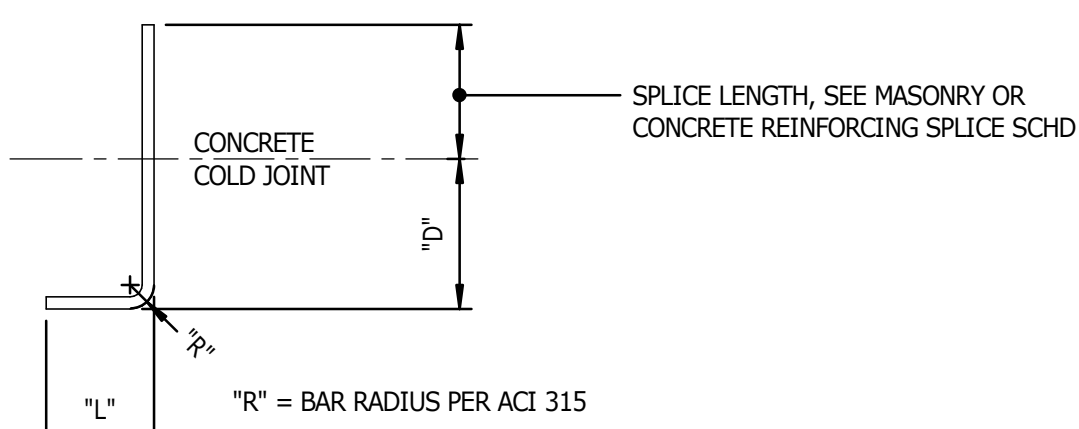
SPLICE AND EMBEDMENT LENGTH SCHEDULE



9
S3.2
3/4" = 1'-0"

TYPICAL STEPS ON GRADE

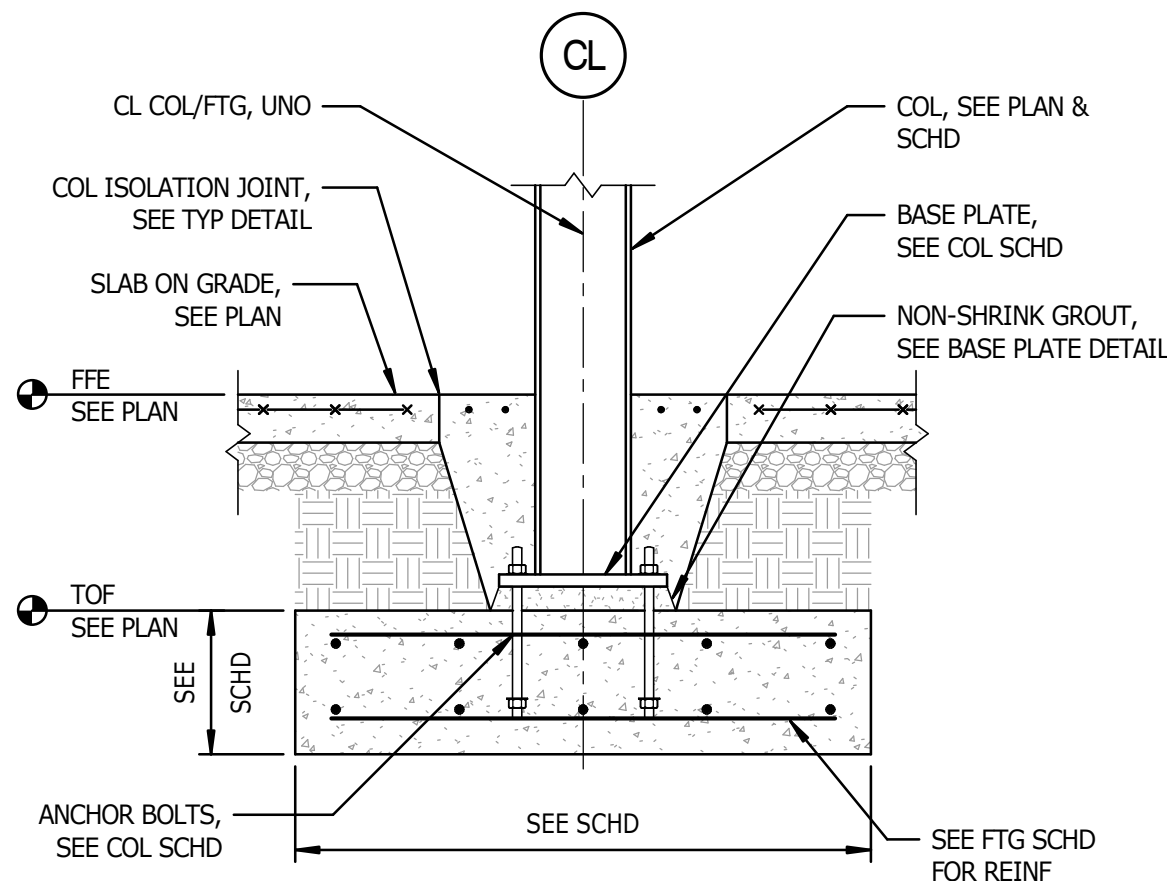
CONCRETE REINFORCING DOWEL EMBEDMENT				
BAR SIZE	LEG DIM, "L"	EMBEDMENT, "D"		
		f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI
#3	6"	6"	6"	6"
#4	8"	8"	7"	6"
#5	10"	10"	9"	8"
#6	12"	12"	10"	9"
#7	14"	14"	12"	11"
#8	16"	16"	14"	12"
#9	19"	18"	15"	14"
#10	22"	20"	17"	15"
#11	24"	22"	19"	17"



- NOTES:
1. FOR CONCRETE STRENGTHS NOT PROVIDED, USE THE EMBEDMENT LENGTH FOR THE LOWER CONCRETE STRENGTH AS SHOWN IN THE TABLE.
 2. DOWEL LENGTHS BASED ON NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT, INCREASE DOWEL LENGTH "D" BY 30%.
 3. SIDE COVER ON BARS MUST BE GREATER THAN 2 1/2". END COVER ON 90° HOOKED BARS MUST BE GREATER THAN 2".
 4. FOR EPOXY-COATED BARS, INCREASE THE DOWEL LENGTH "D" BY 20%.

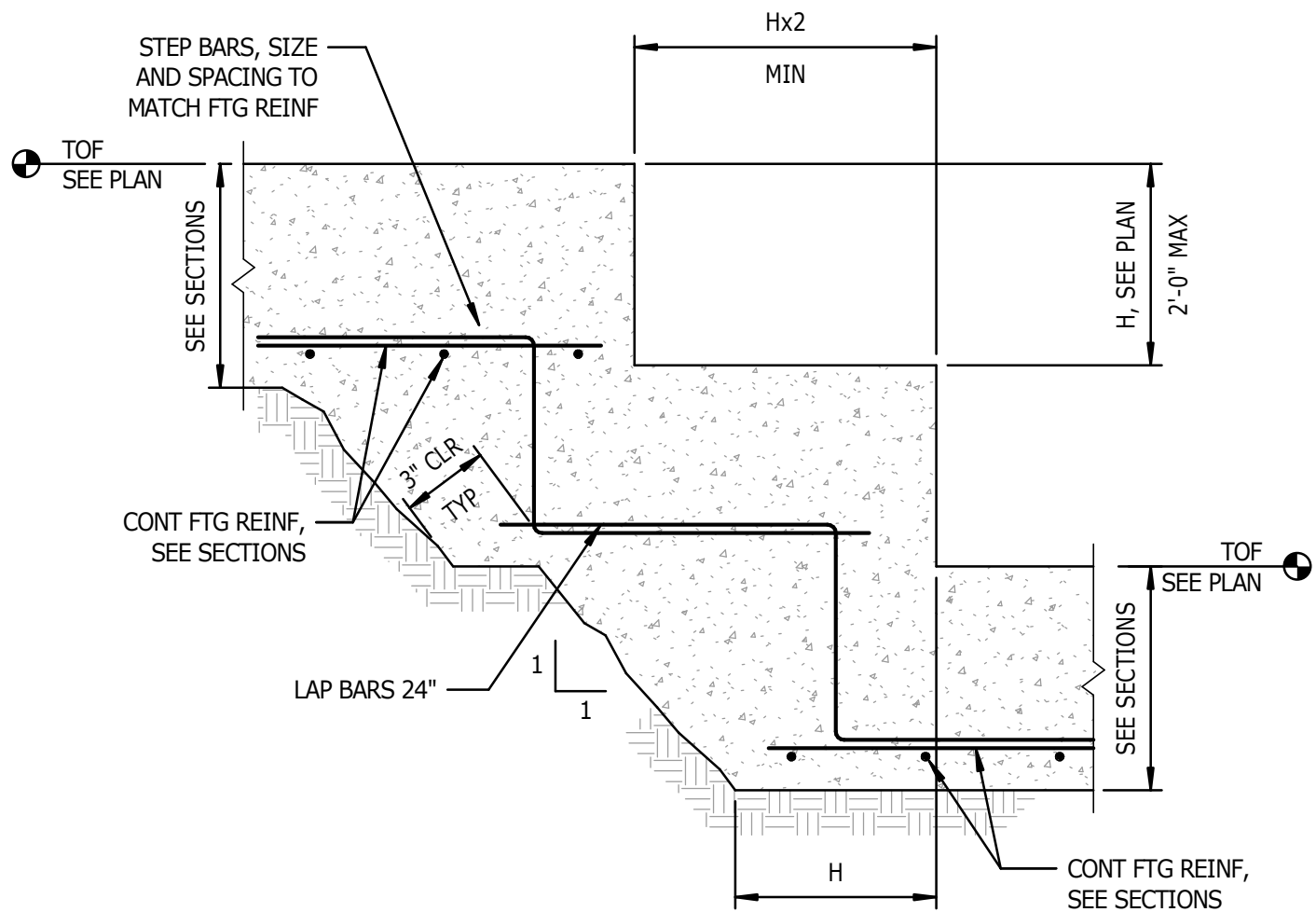
1
S3.2
NTS

DOWEL EMBEDMENT LENGTH SCHEDULE



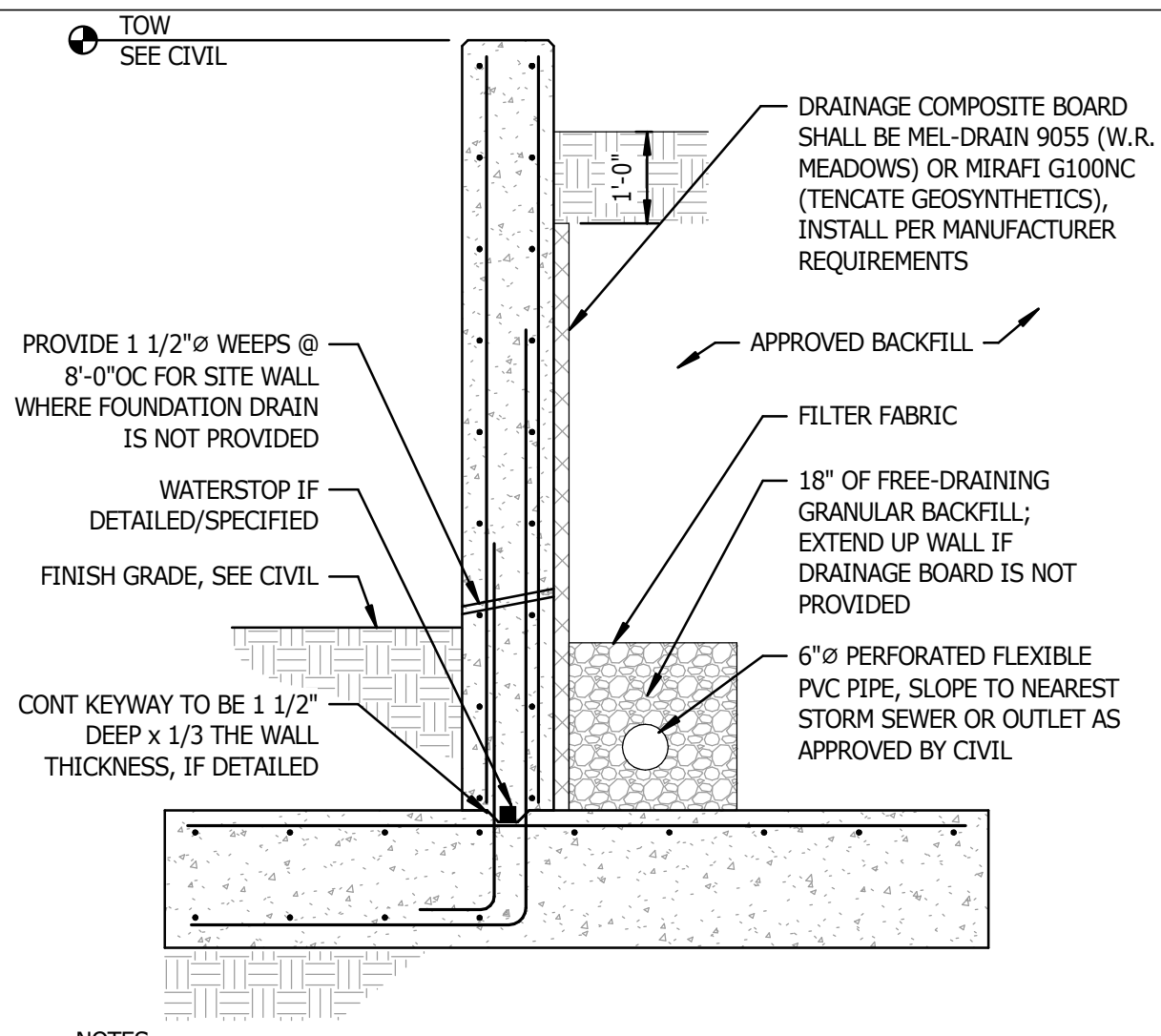
5
S3.2
NTS

TYPICAL FOOTING AT STEEL COLUMN



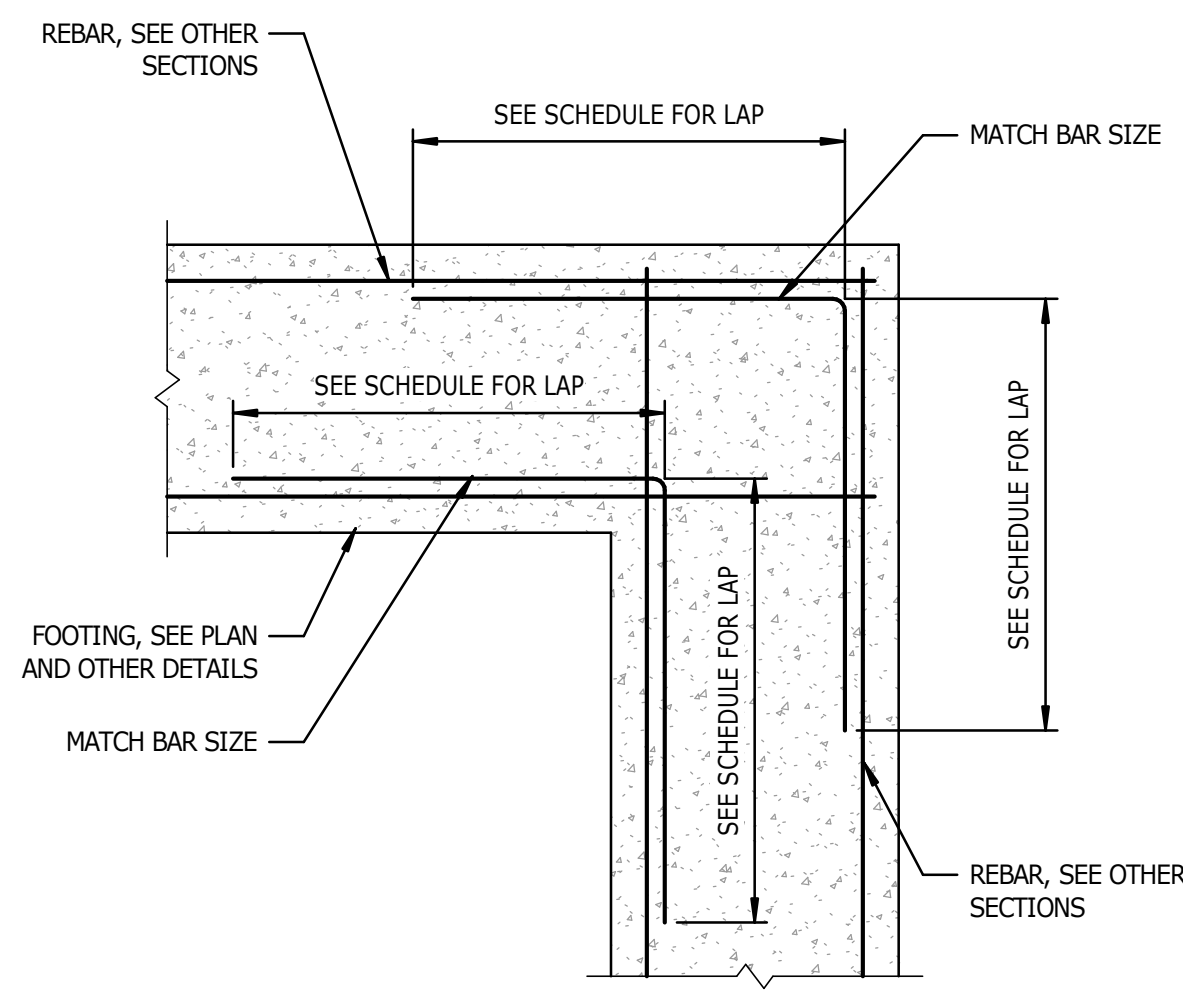
2
S3.2
NTS

TYPICAL STEP IN WALL FOOTING



6
S3.2
NTS

TYP SITE RETAINING WALL DRAINAGE SYSTEM



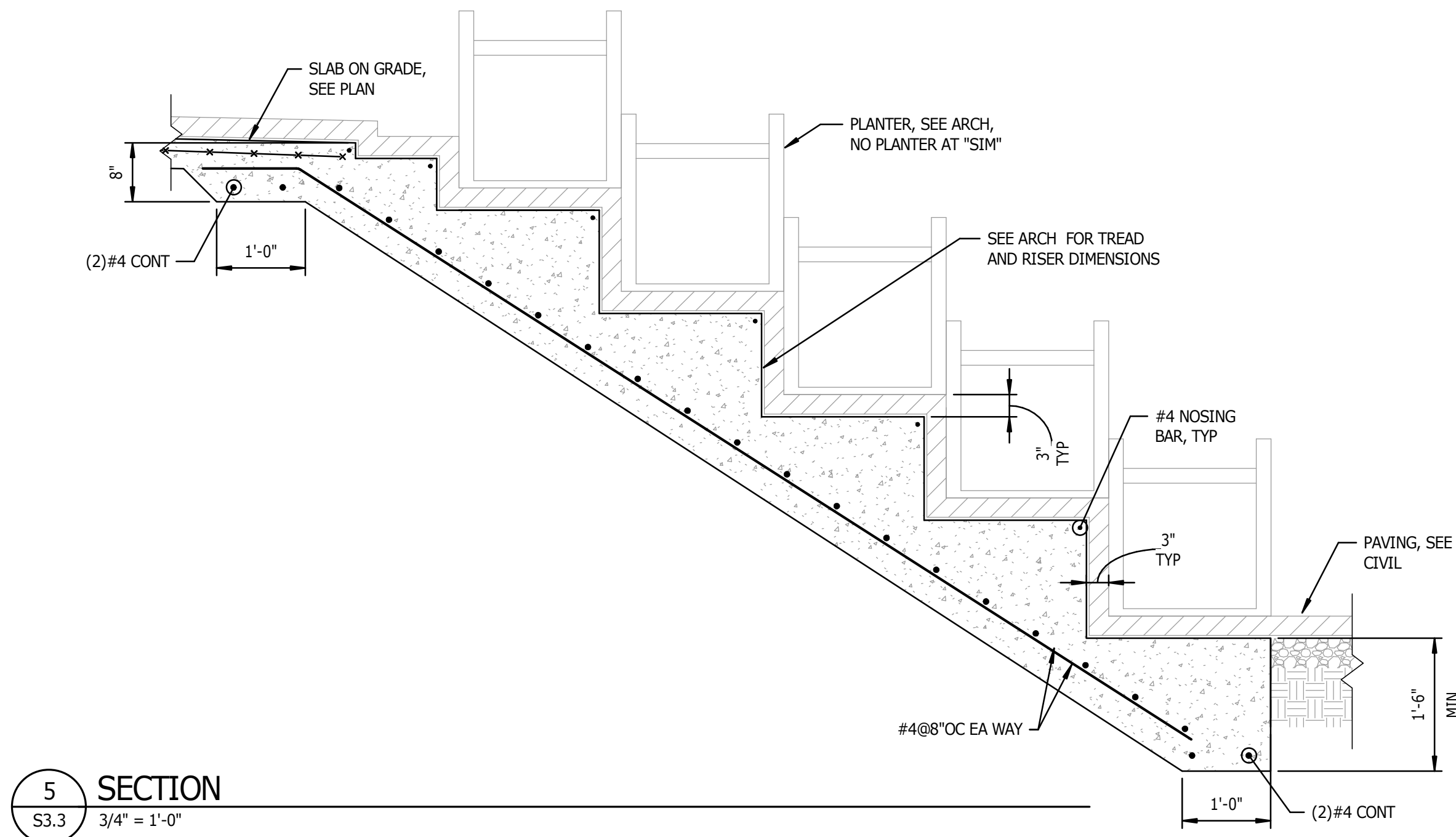
3
S3.2
NTS

TYPICAL FOOTING CORNER

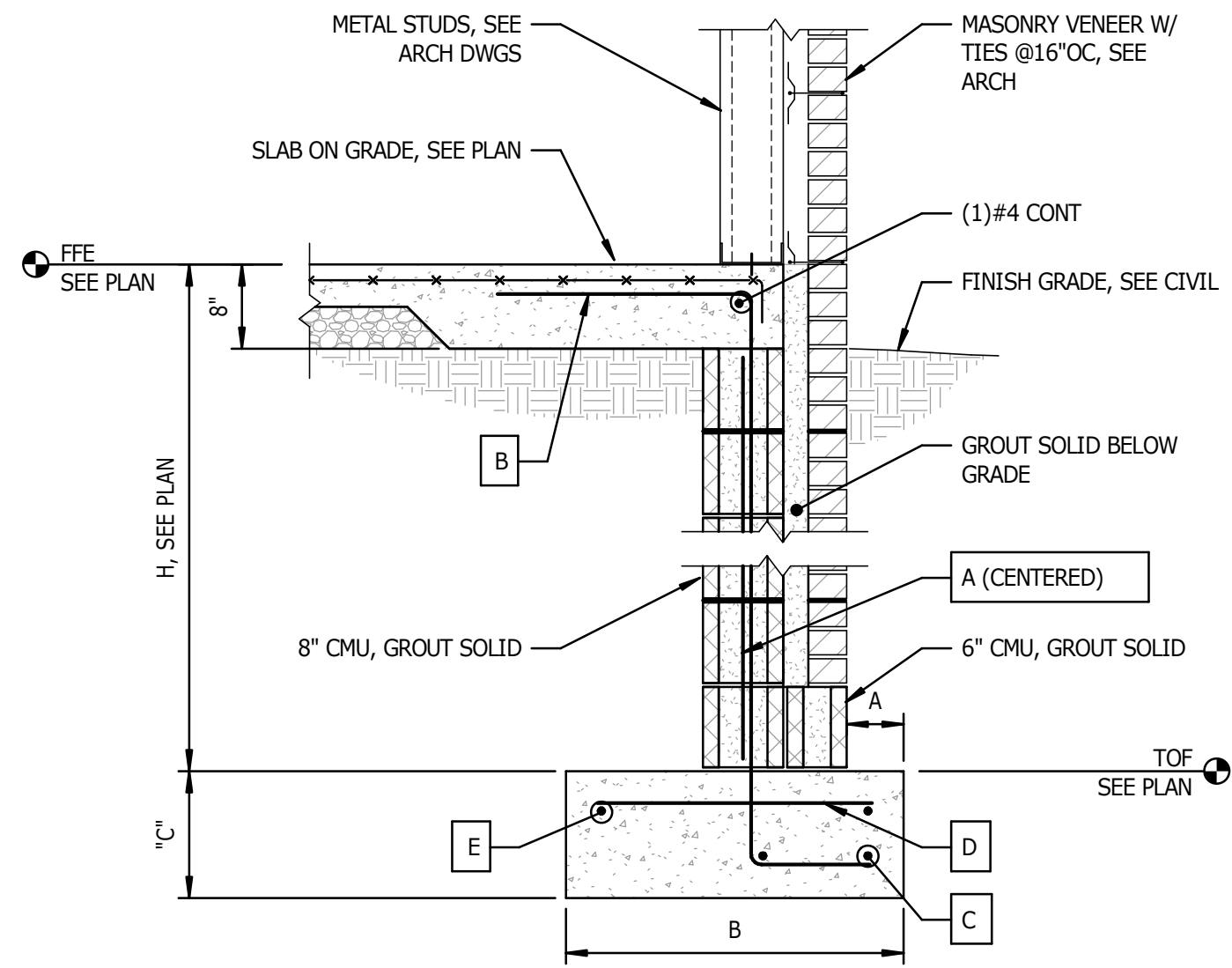
GENERAL NOTE:
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Revisions	Description	Date
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Date Issue Date	Project No. 22038
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Checked By MBC	Sheet Title FOUNDATION DETAILS



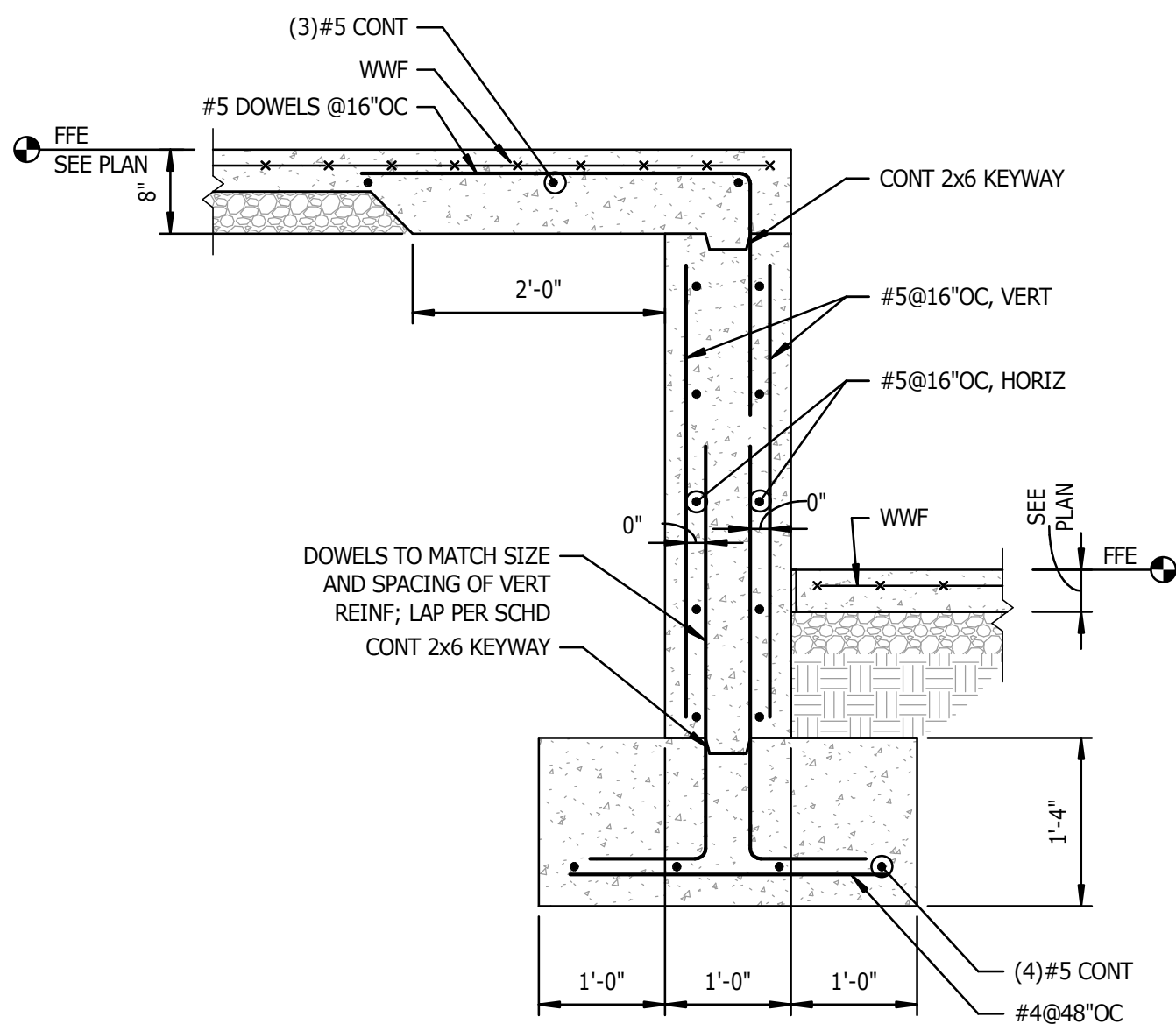
5 SECTION
S3.3 3/4" = 1'-0"



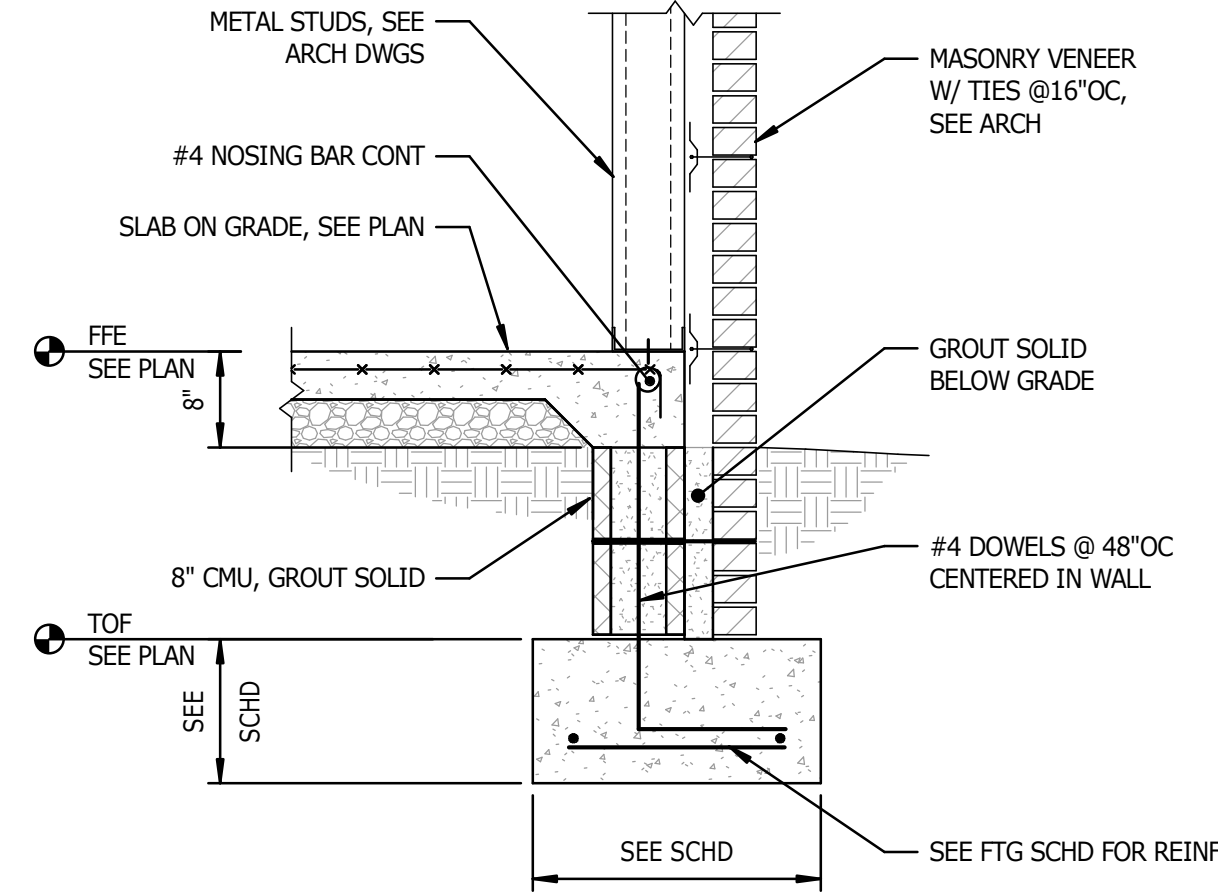
H	A	B	C	A	B	C	D	E
4'-0"	10"	3'-0"	1'-2"	#5@16"OC	NA	(2)#5	#4@16"OC	(3)#5
6'-0"	1'-3"	4'-0"	1'-2"	#5@16"OC	#5@16"OC	(2)#5	#4@16"OC	(4)#5
8'-0"	1'-3"	5'-0"	1'-2"	#5@16"OC	#5@16"OC	(2)#5	#4@16"OC	(4)#5
10'-0"	1'-3"	6'-0"	1'-6"	#7@8"OC	#7@8"OC	(2)#5	#5@16"OC	(4)#5

NOTES:
1. WHEN "H" IS GREATER THAN OR EQUAL TO 6'-0", WALL MUST BE Laterally BRACED UNTIL SLAB IS POURED.

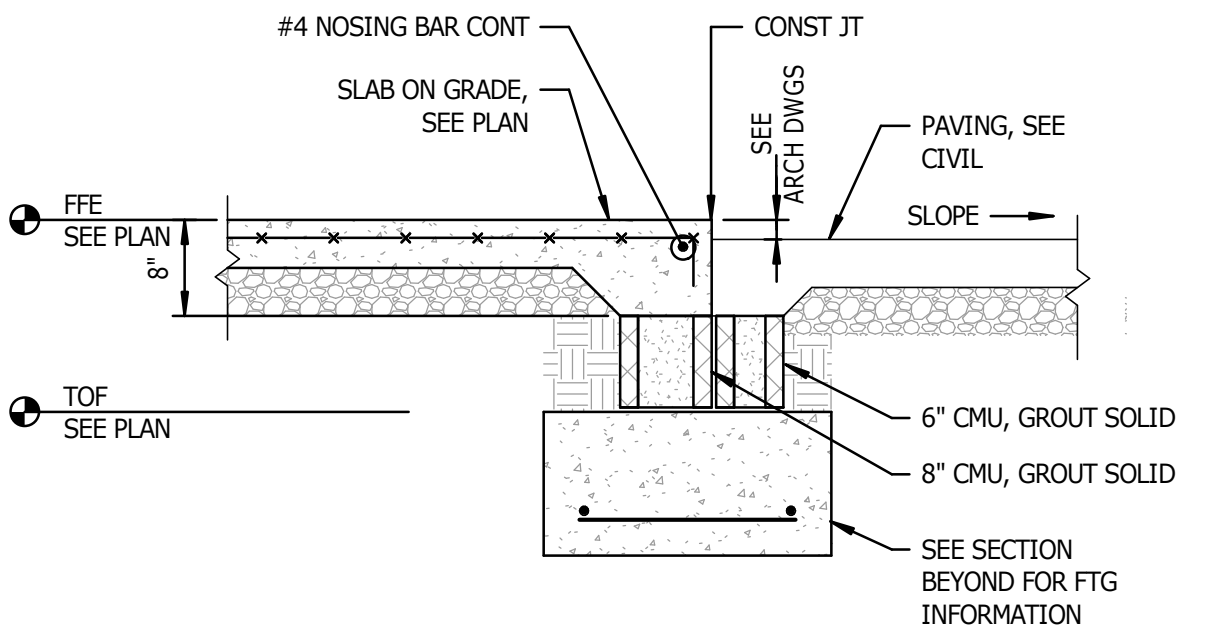
4 TYPICAL RETAINING WALL FOOTING
S3.3 NTS



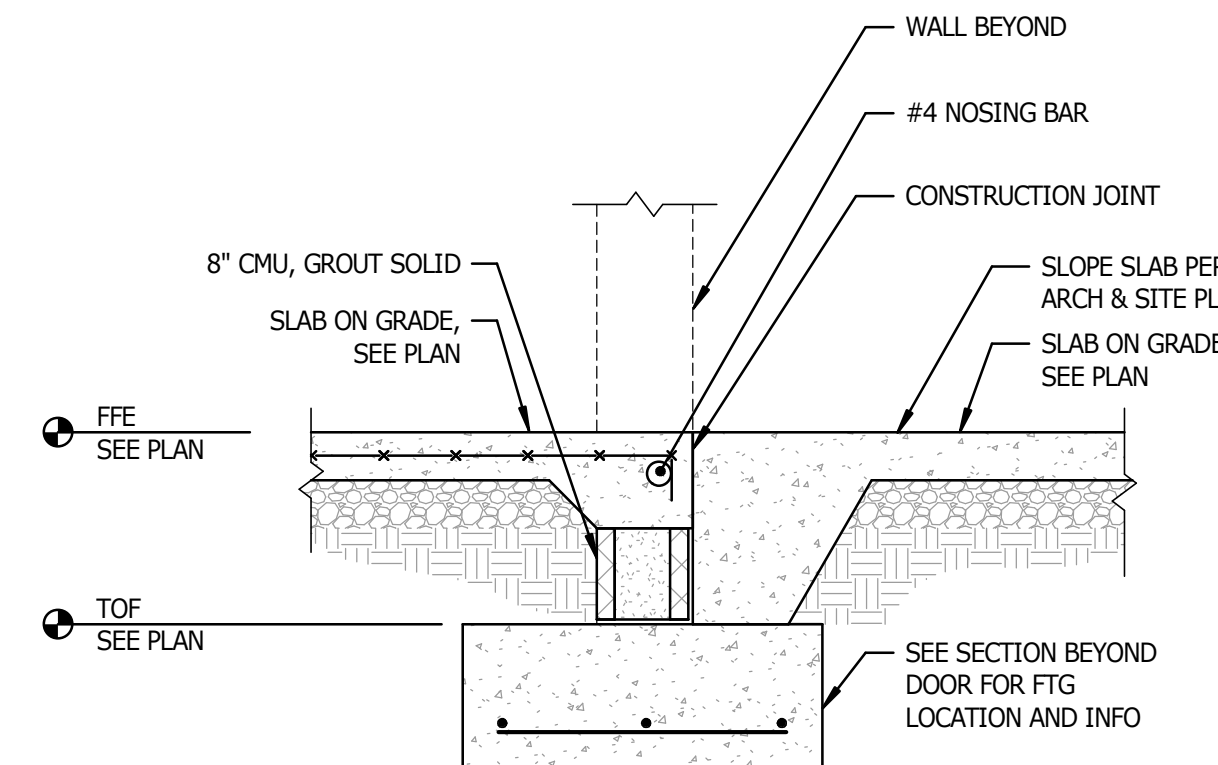
6 TYPICAL RETAINING WALL AT SLAB STEP
S3.3 NTS



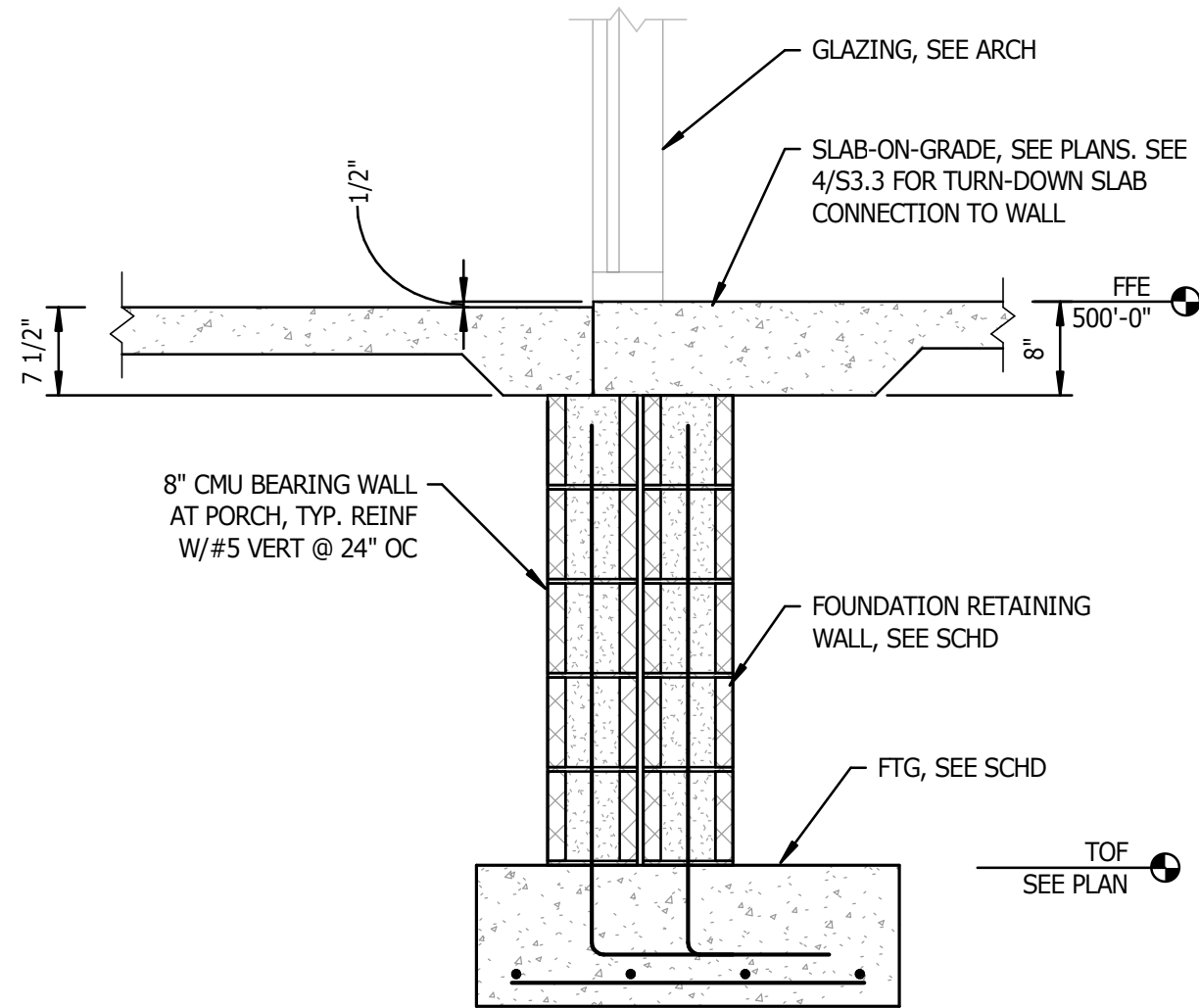
1 TYPICAL EXTERIOR WALL FOOTING
S3.3 NTS



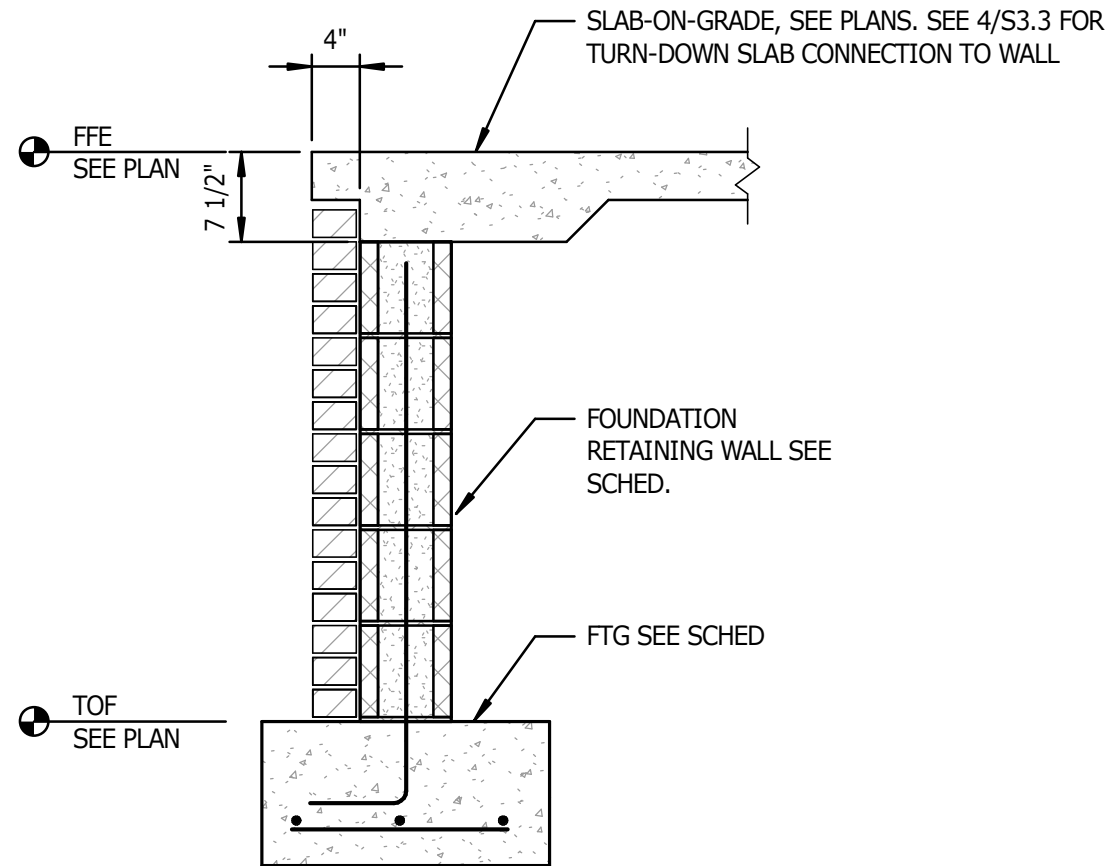
2 TYPICAL SLAB ON GRADE AT DOOR
S3.3 NTS



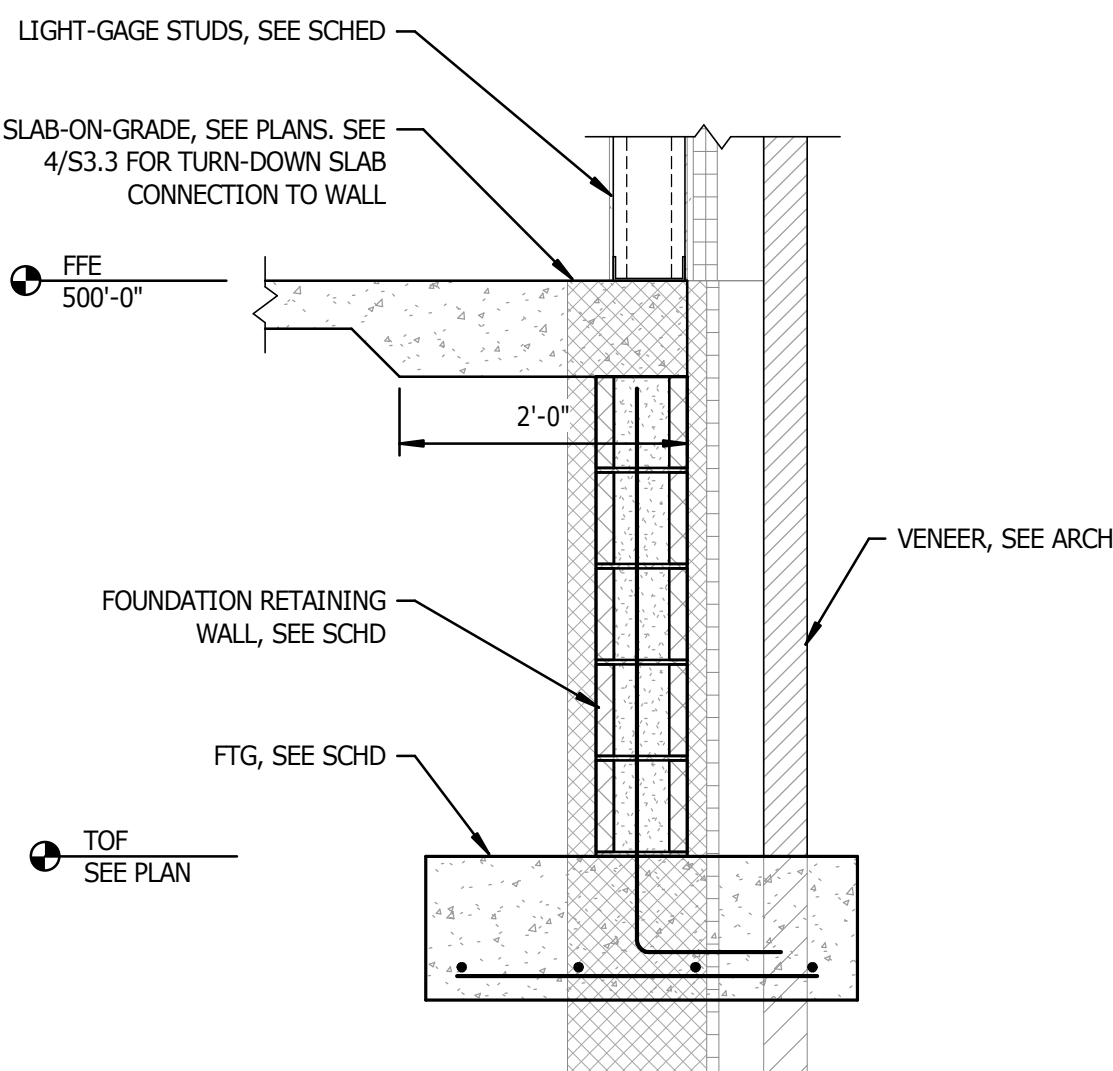
3 TYPICAL SLAB ON GRADE AT PAVING
S3.3 NTS



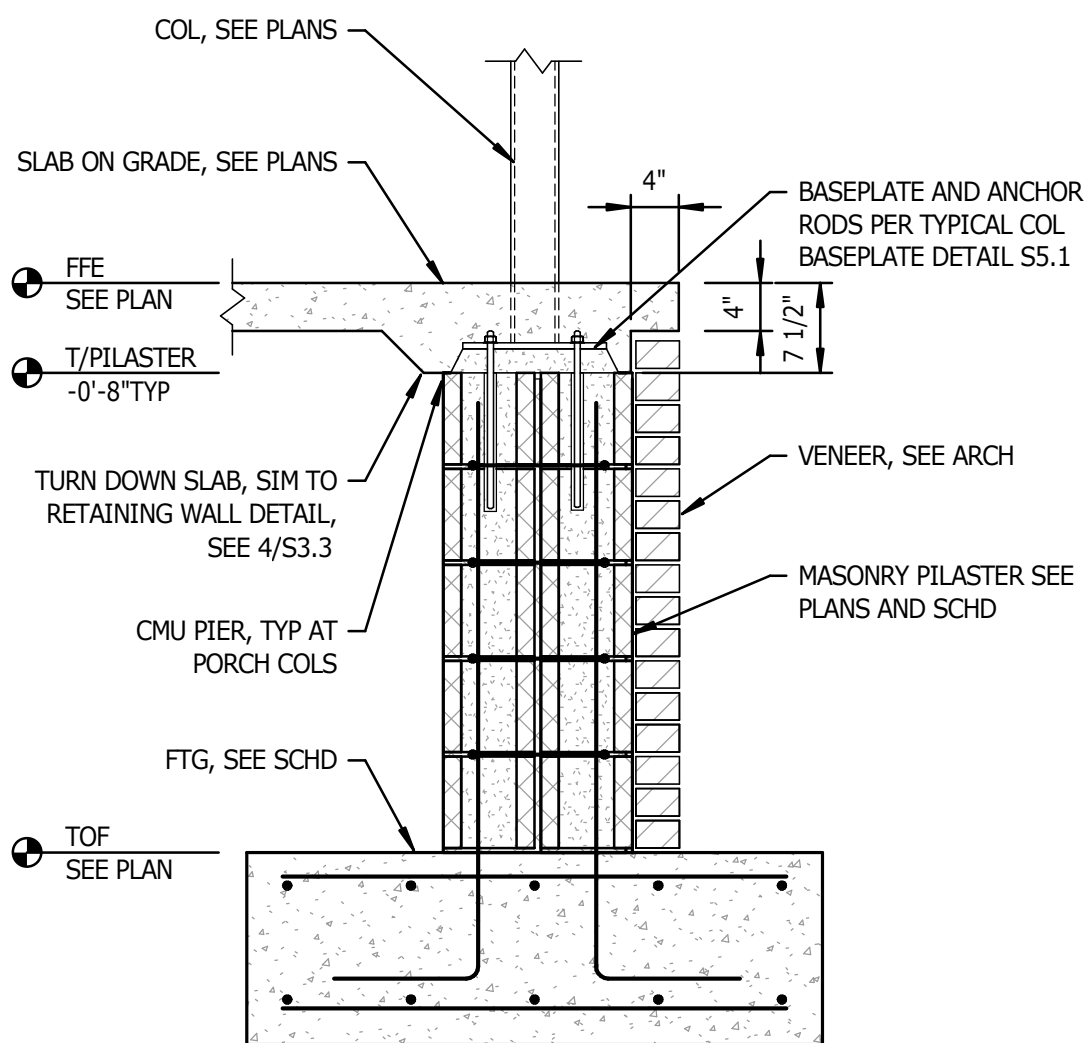
4 SECTION
S3.4 3/4" = 1'-0"



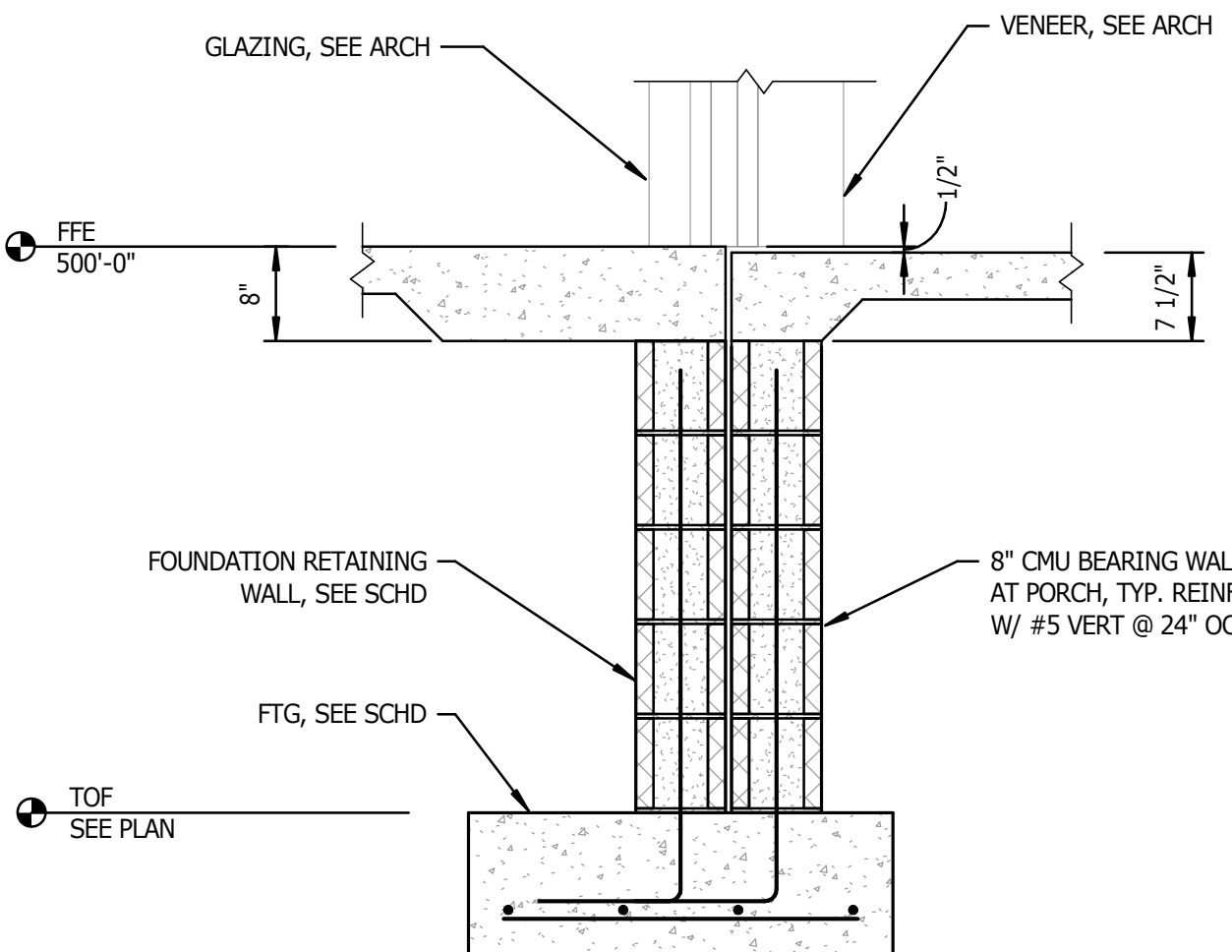
5 SECTION
S3.4 3/4" = 1'-0"



1 SECTION
S3.4 3/4" = 1'-0"



2 SECTION
S3.4 3/4" = 1'-0"



3 SECTION
S3.4 3/4" = 1'-0"

NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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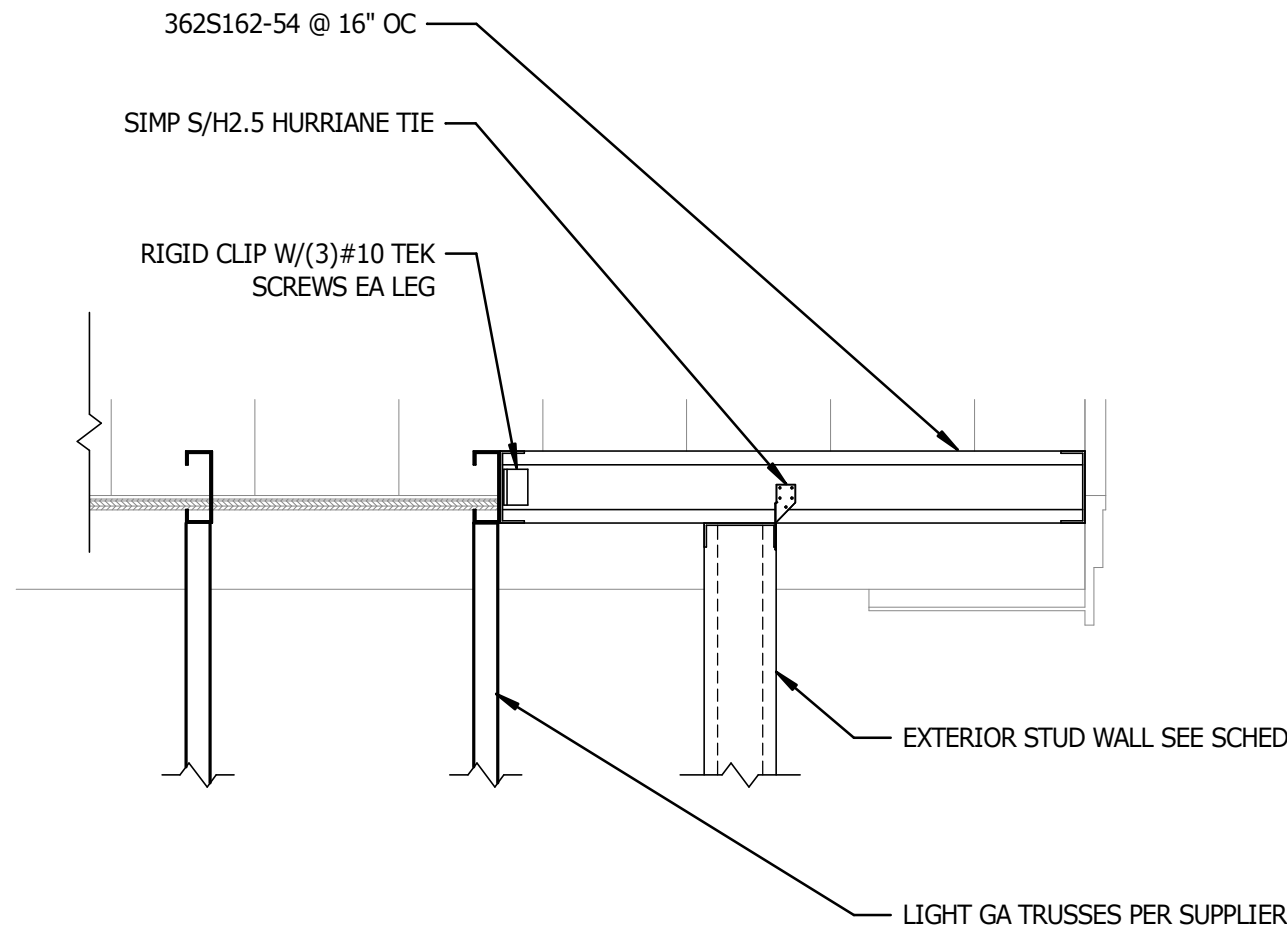
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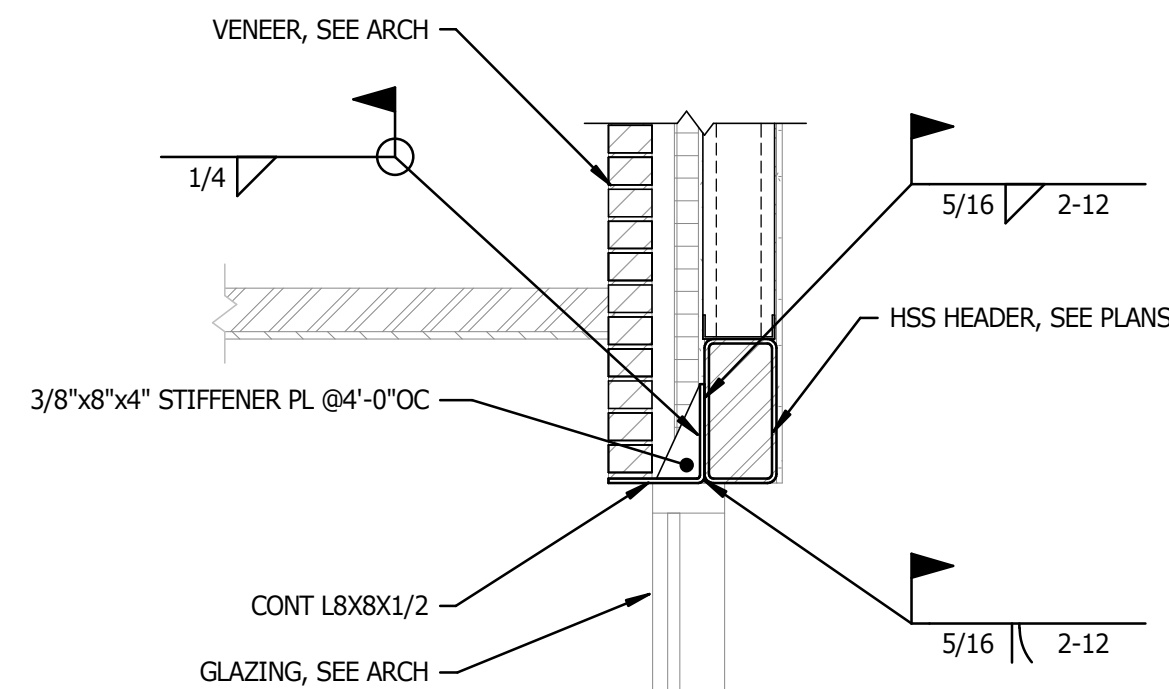
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1		

Date Issue Date	Project No. 22038
Drawn By VNA	Sheet No. S3.4
Checked By MBC	Sheet Title SECTIONS

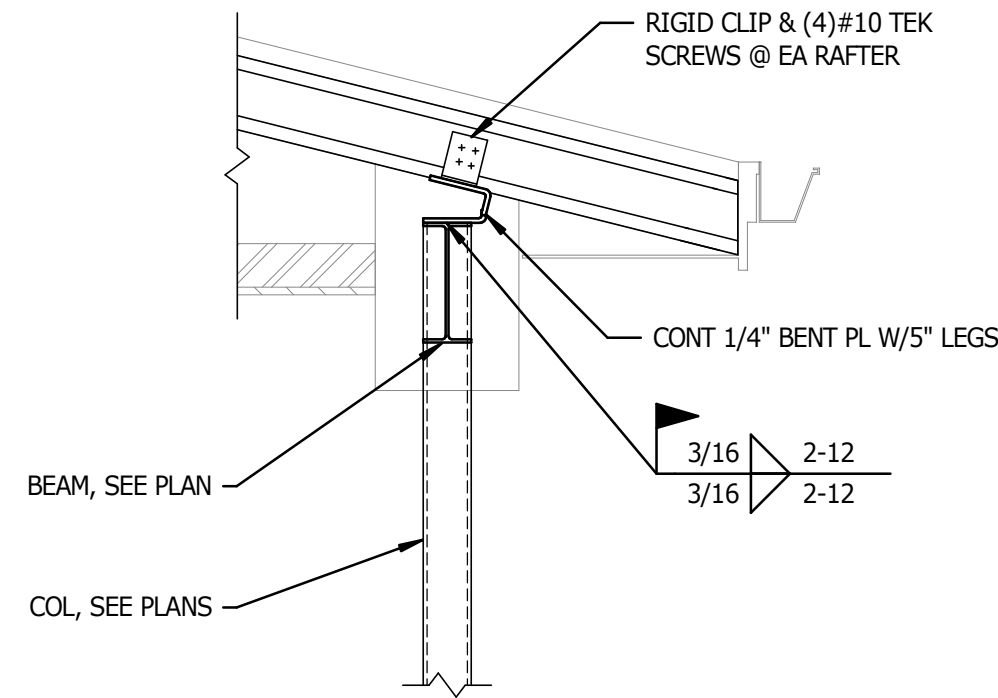
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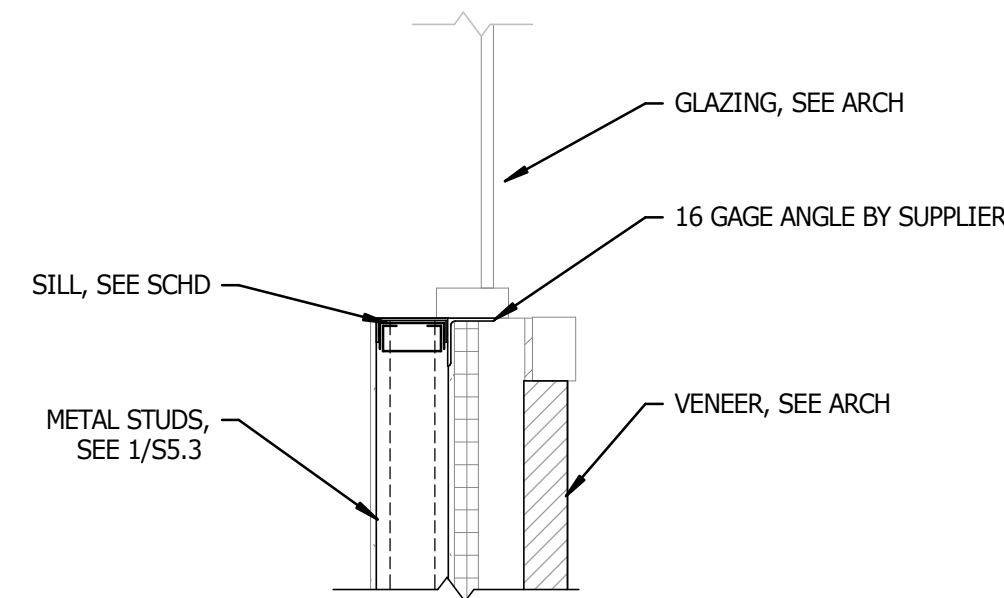
10 SECTION
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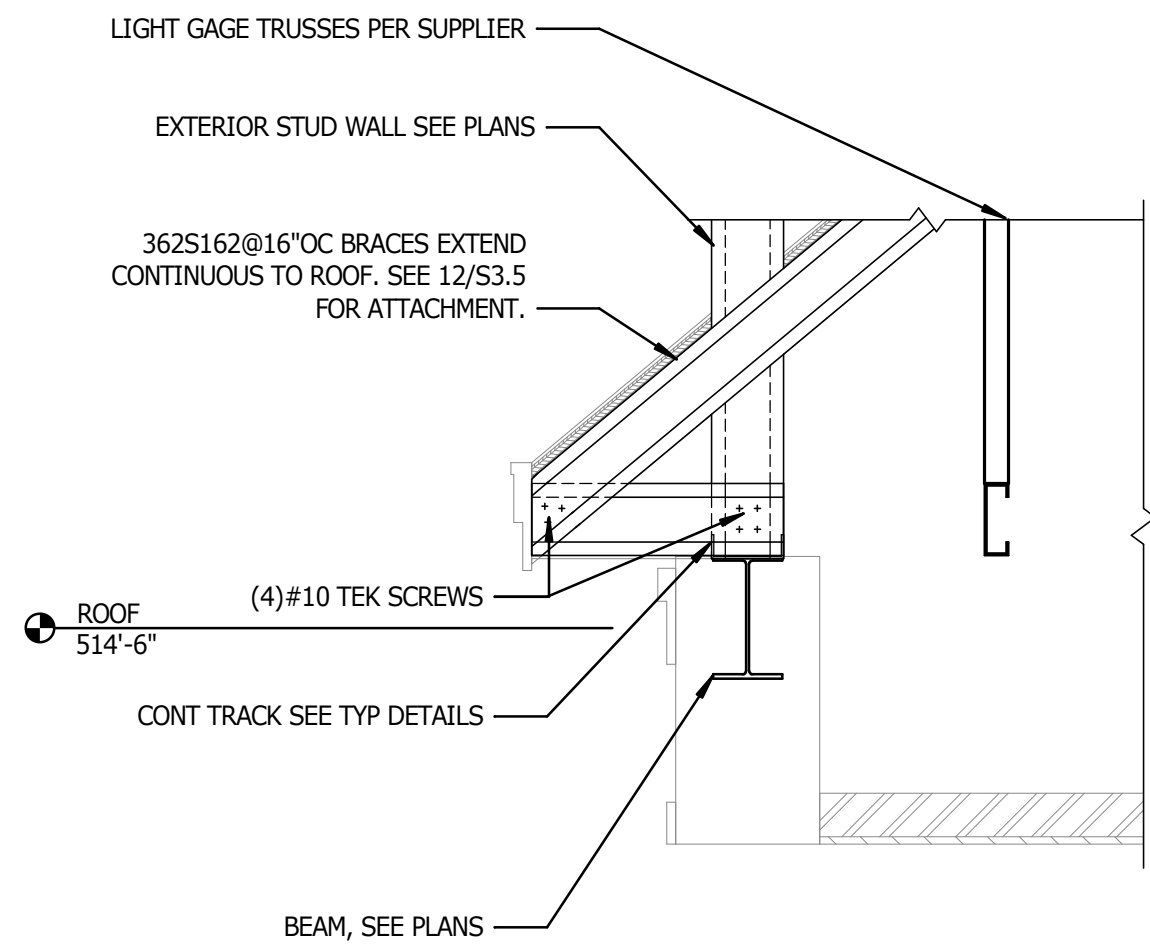
7 SECTION
S3.5 3/4" = 1'-0"



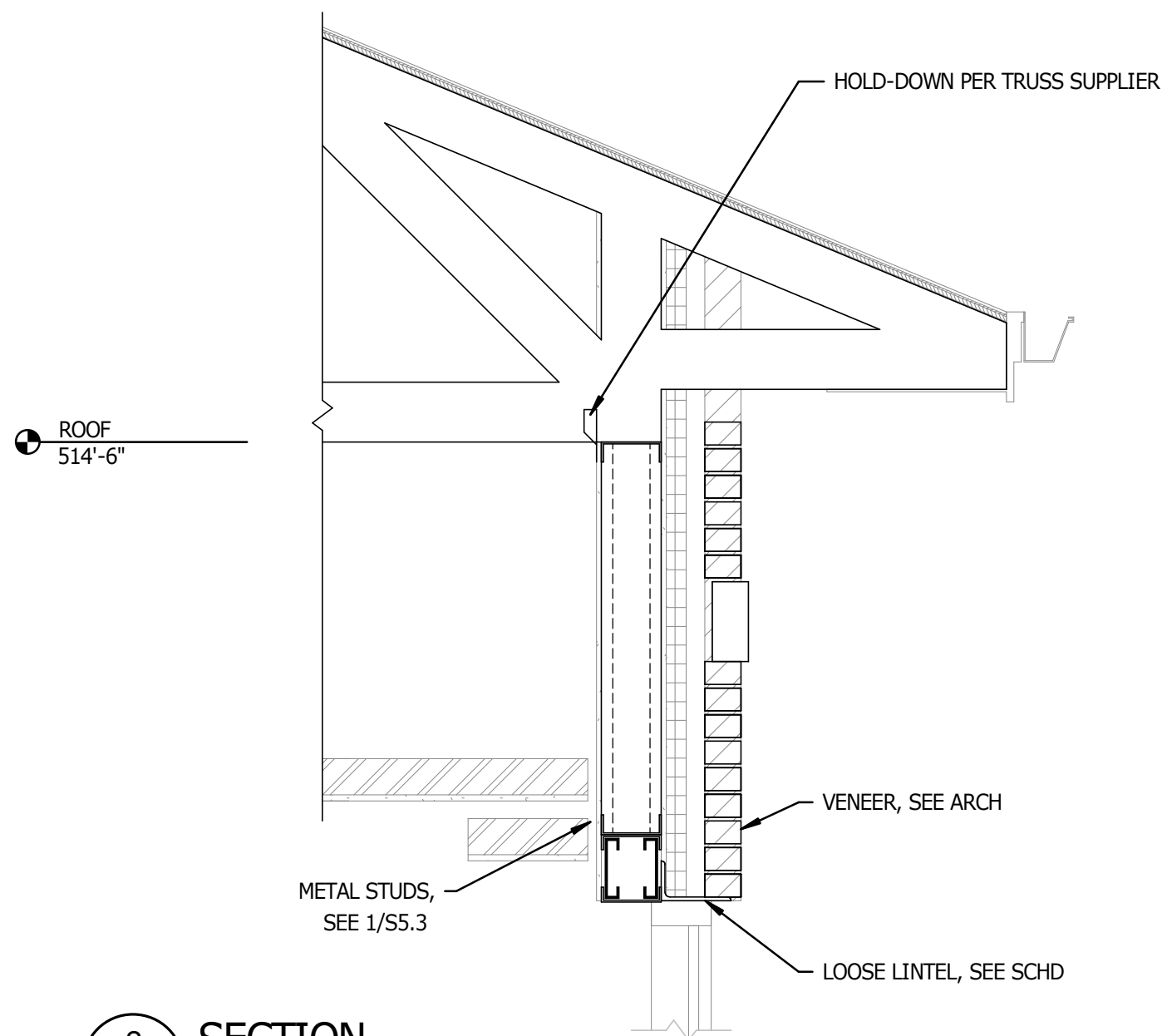
4 SECTION
S3.5 3/4" = 1'-0"



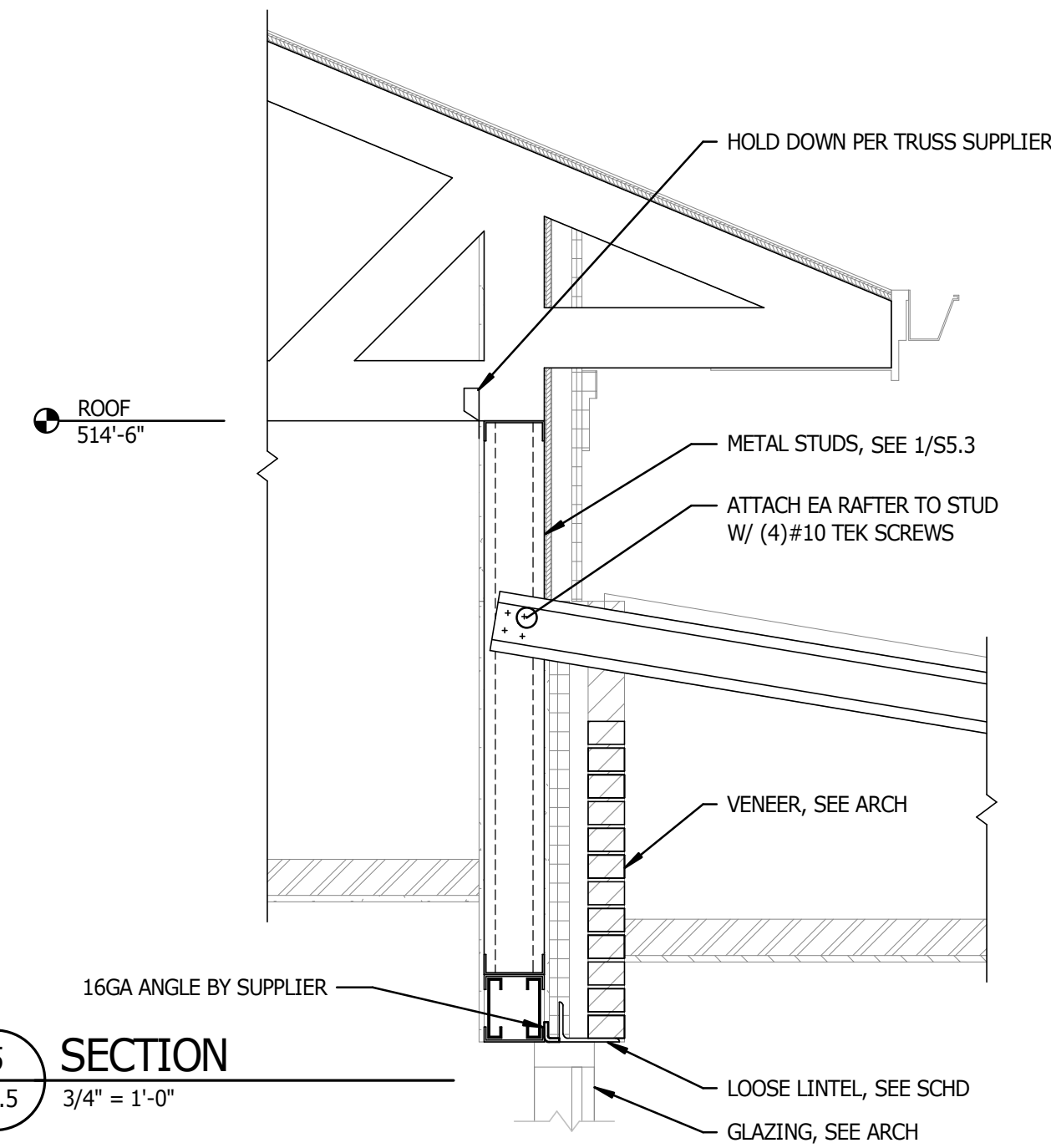
1 SECTION
S3.5 3/4" = 1'-0"



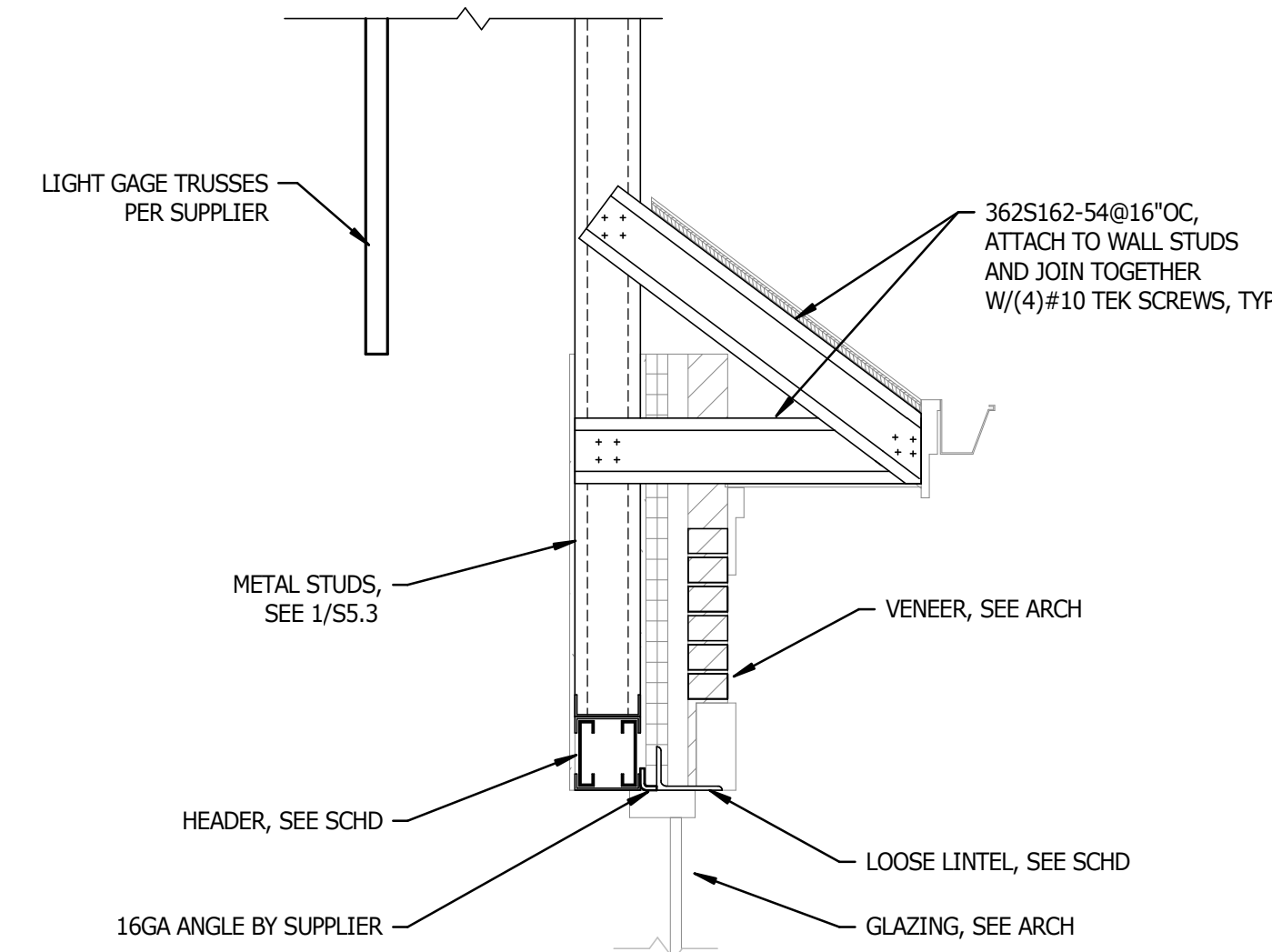
11 SECTION
S3.5 3/4" = 1'-0"



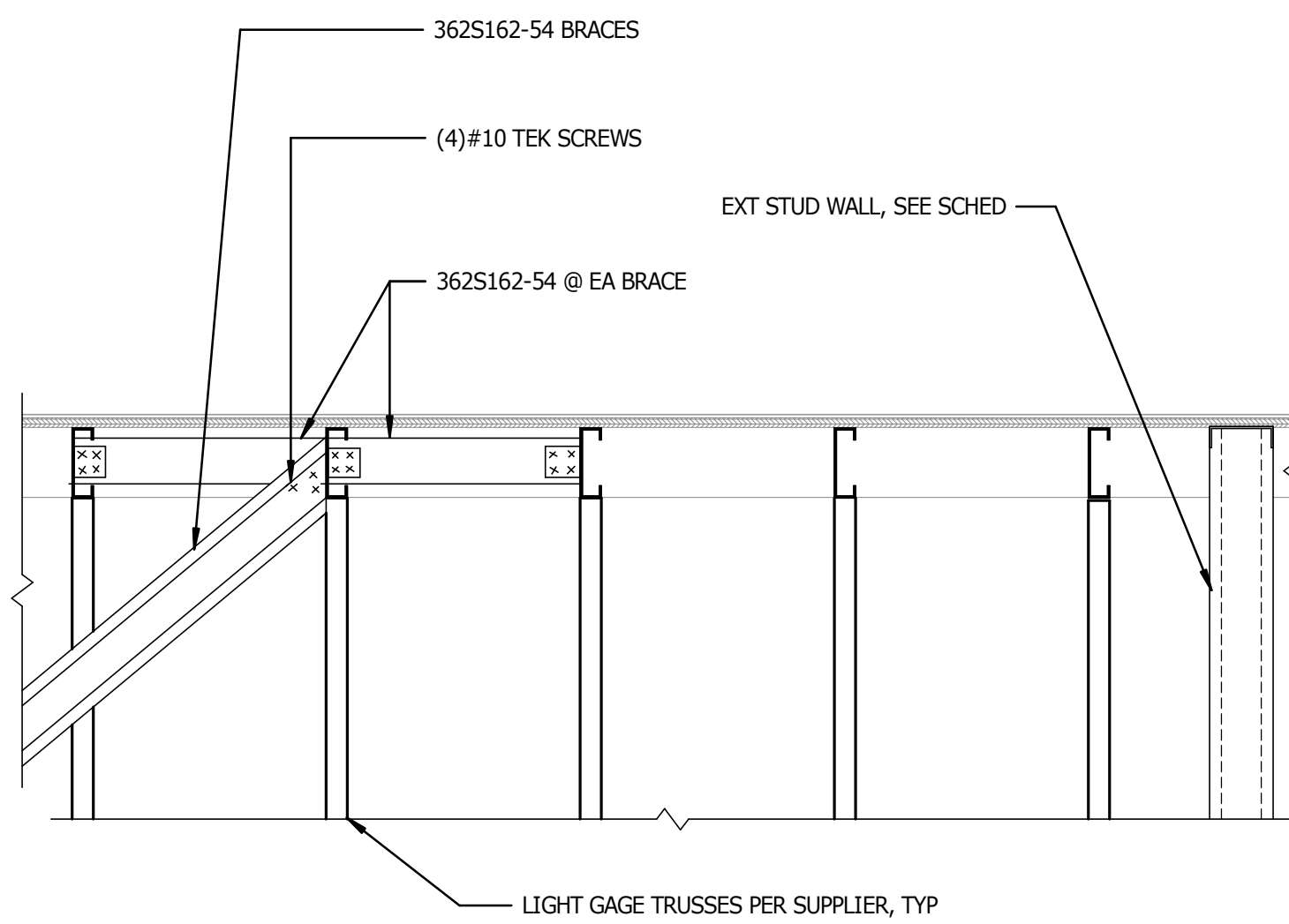
8 SECTION
S3.5 3/4" = 1'-0"



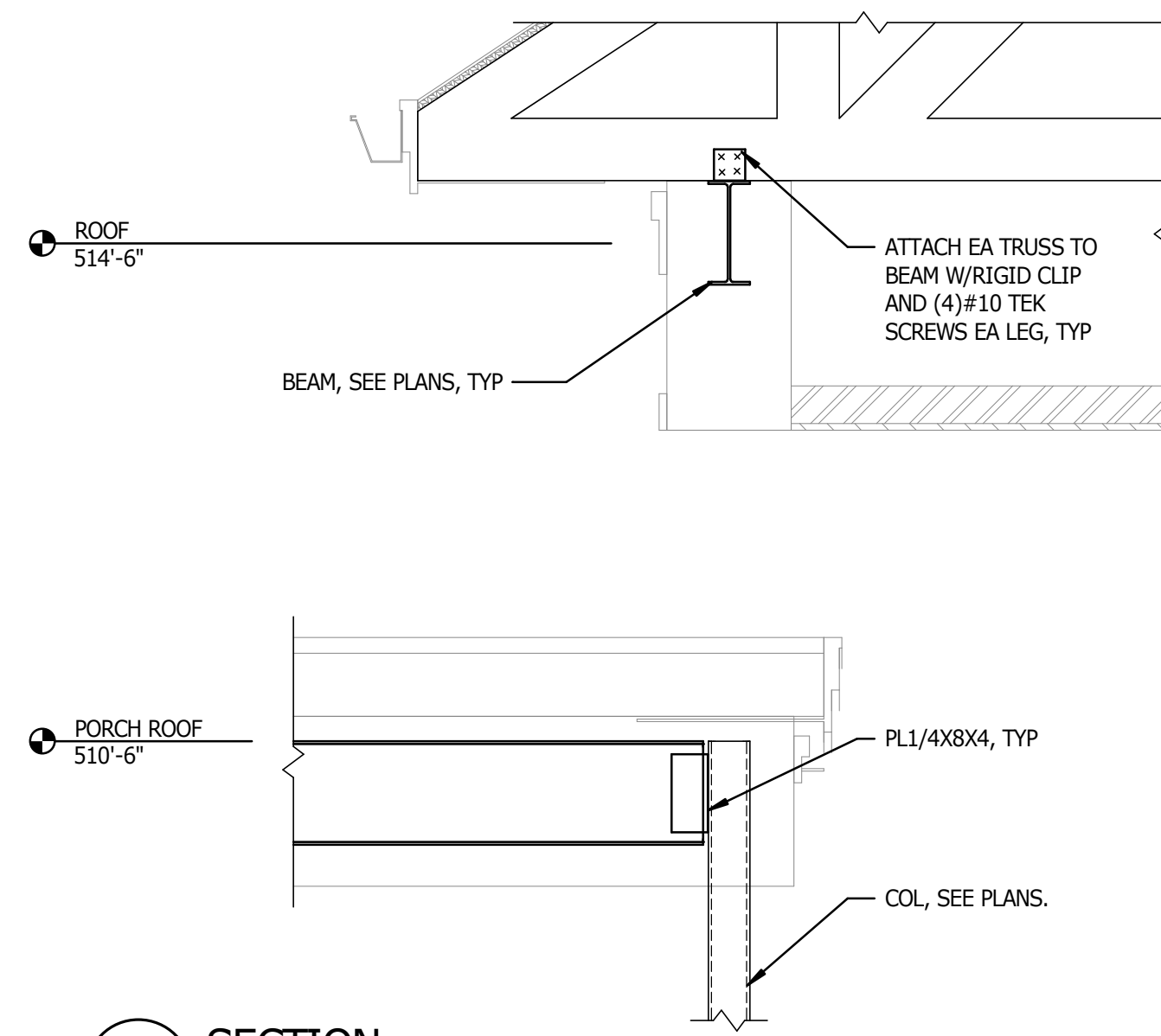
5 SECTION
S3.5 3/4" = 1'-0"



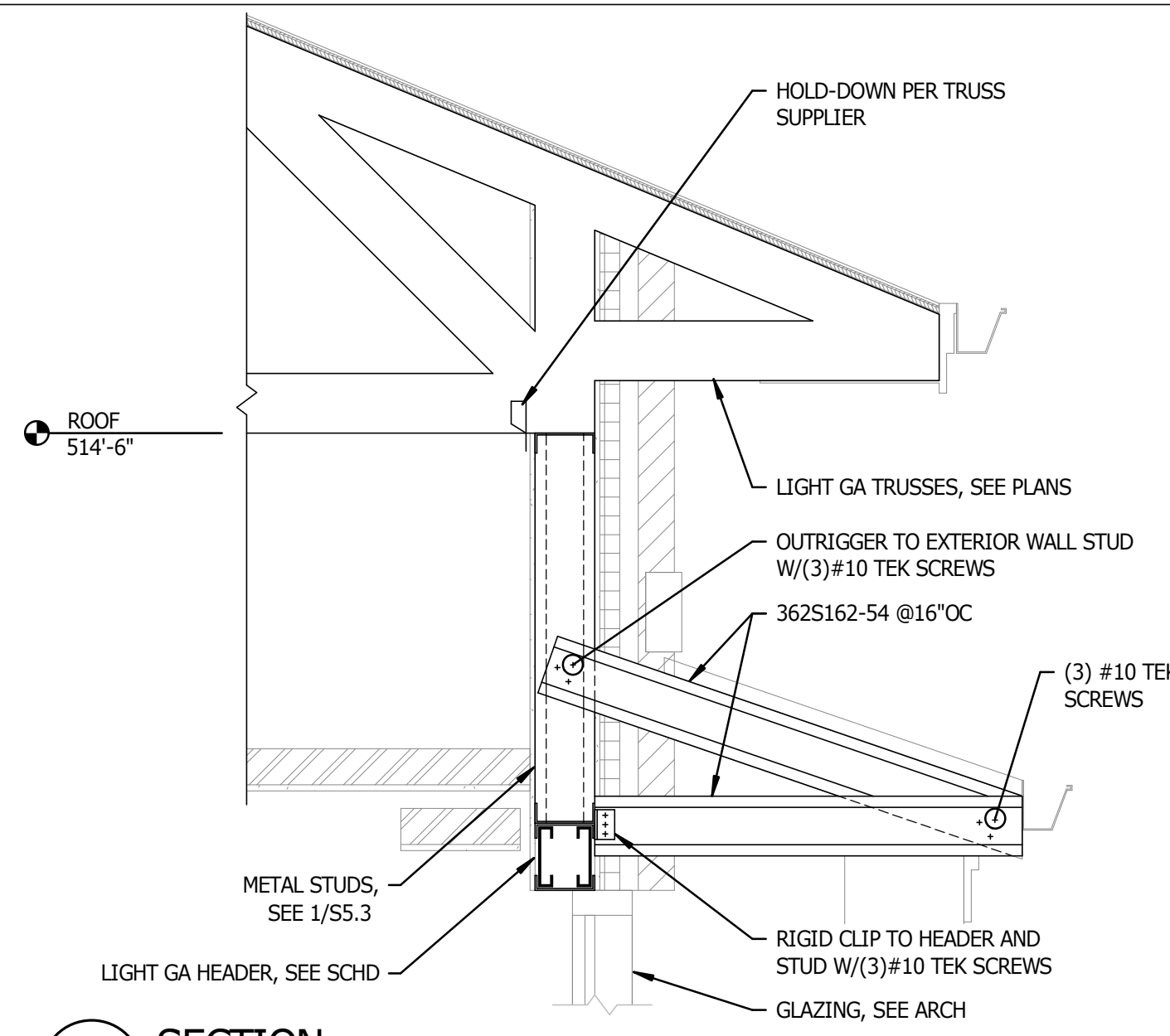
2 SECTION
S3.5 3/4" = 1'-0"



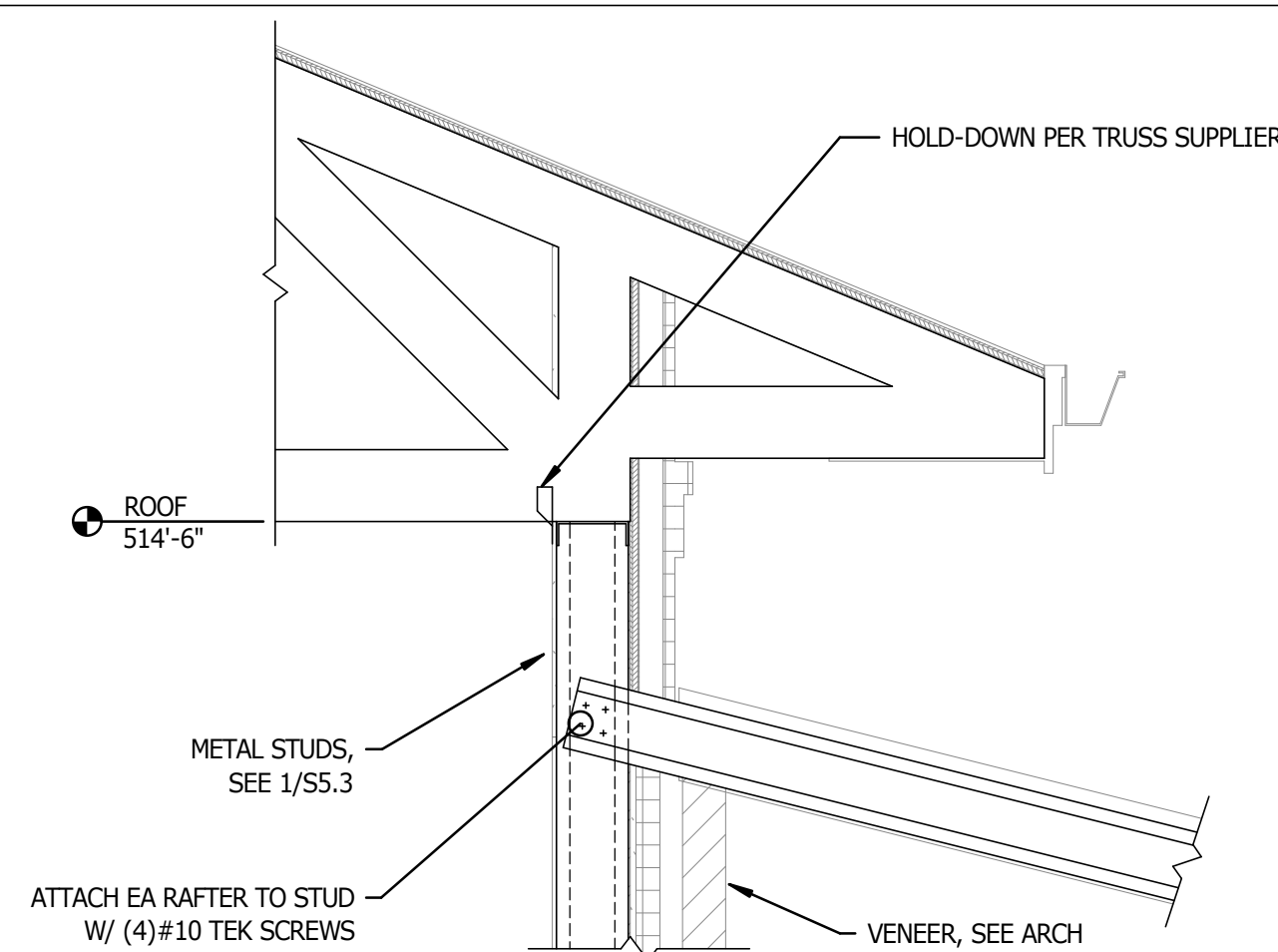
12 SECTION
S3.5 3/4" = 1'-0"



9 SECTION
S3.5 3/4" = 1'-0"



6 SECTION
S3.5 3/4" = 1'-0"



3 SECTION
S3.5 3/4" = 1'-0"

NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

OAKLEY
COLLIER
ARCHITECTS
OCA

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300 W. Warren Street, Raleigh, NC 27601

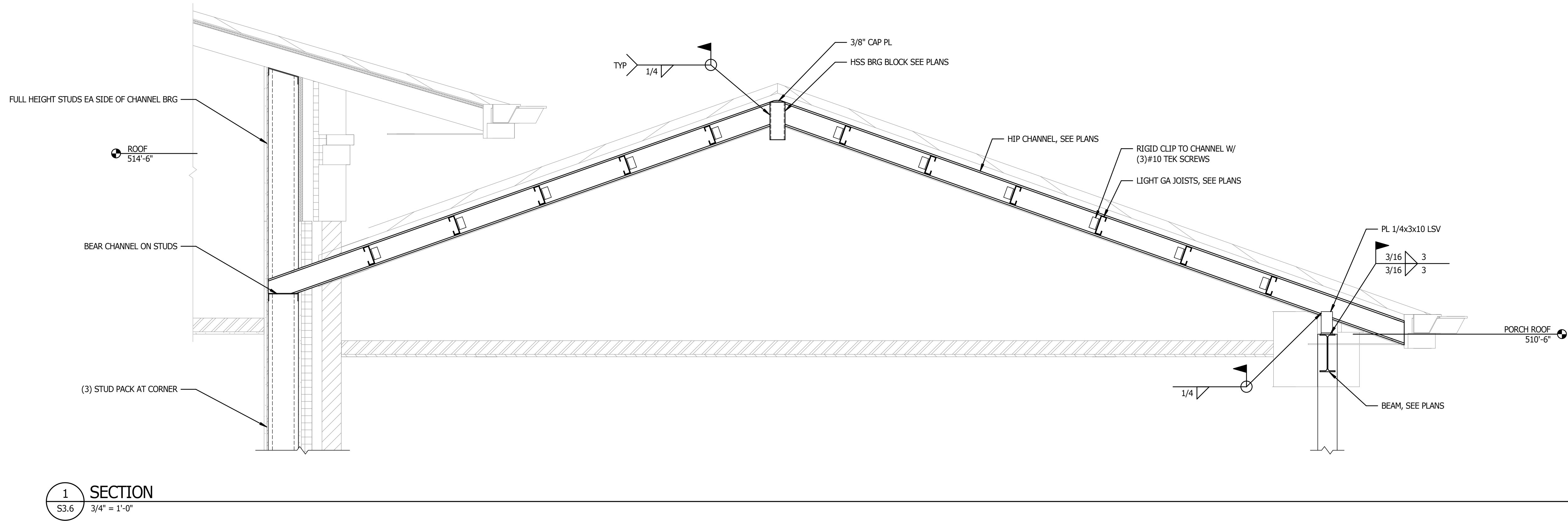
PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions	Description	Date
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Date Issue Date	Project No. 22038
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Checked By MBC	Sheet Title SECTIONS



NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC



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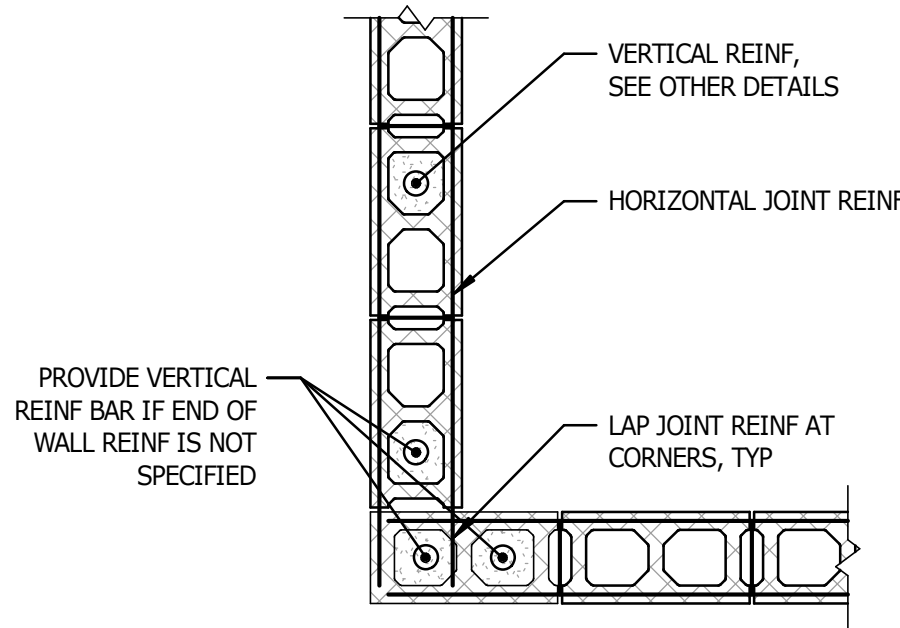
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Revisions	Description	Date
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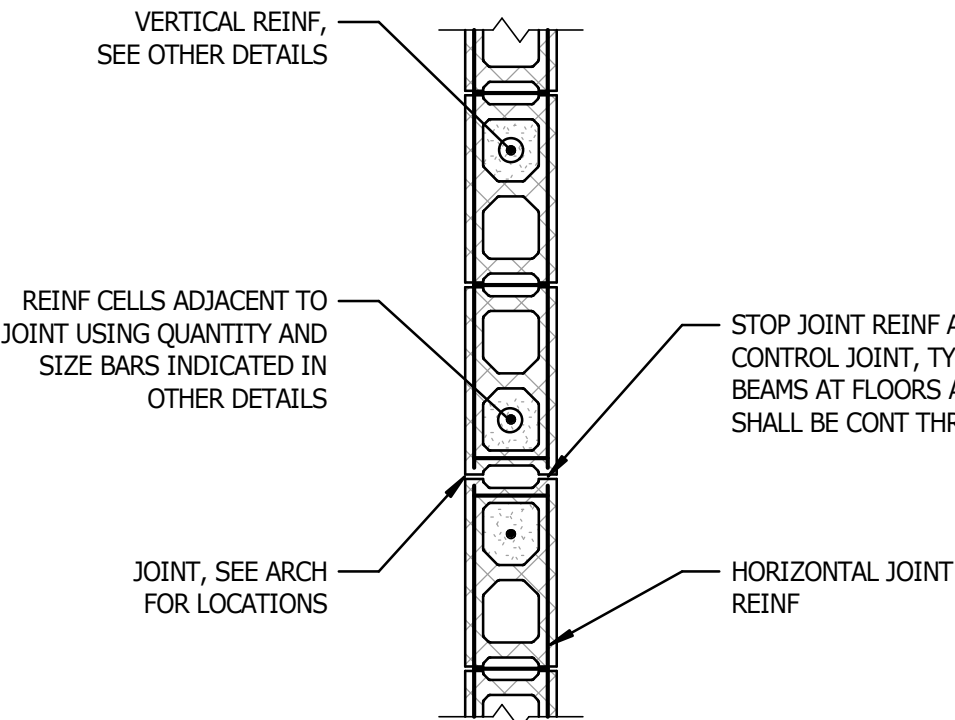
Date Issue Date	Project No. 22038
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Sheet Title
SECTIONS



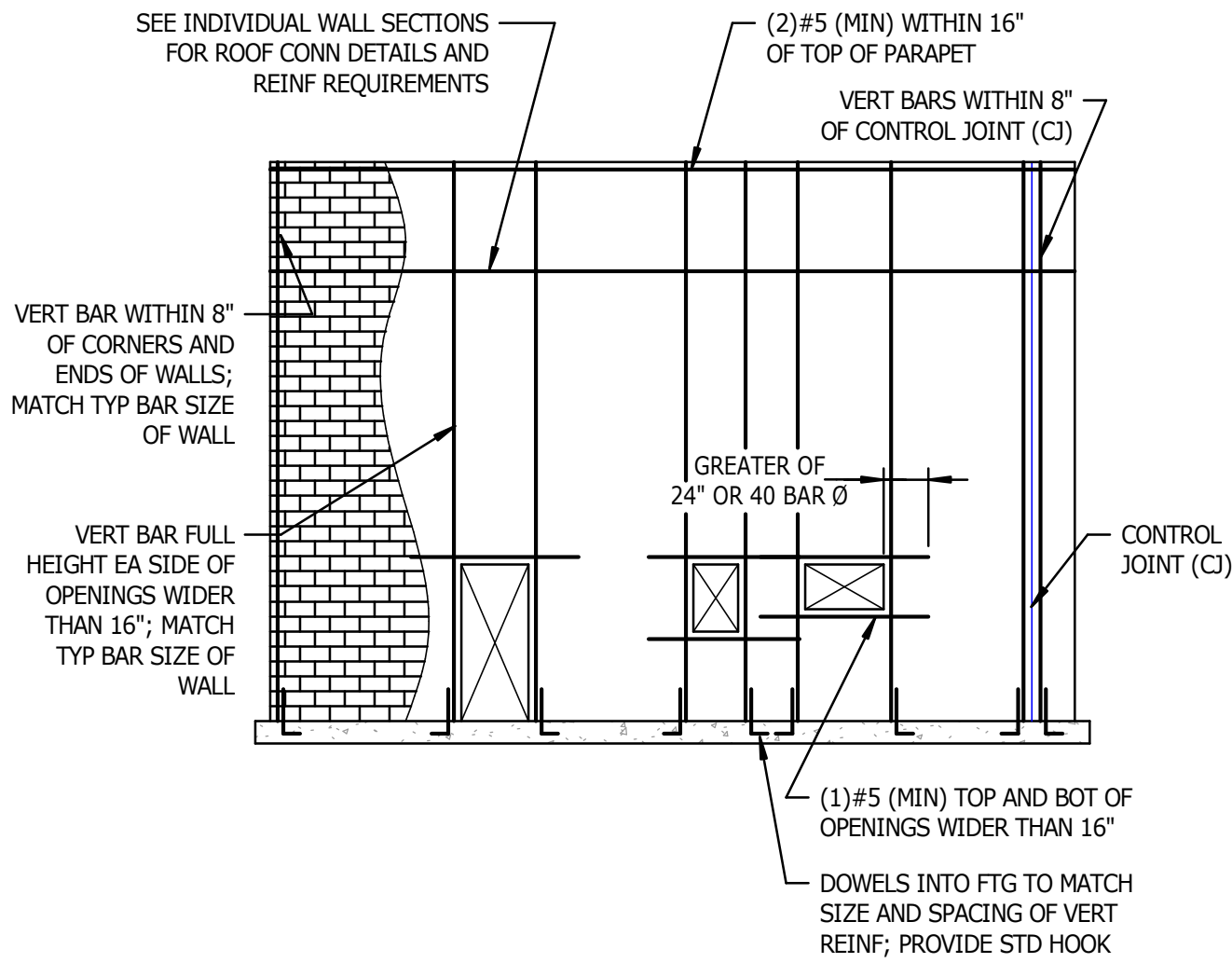
NOTES:
1. PROVIDE DOWELS TO FOUNDATION MATCHING SIZE OF VERTICAL REINFORCING, TYPICAL. SEE GENERAL NOTES OR MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE FOR LAP REQUIREMENTS.

7 TYPICAL WALL CORNER
S4.1 3/4" = 1'-0"



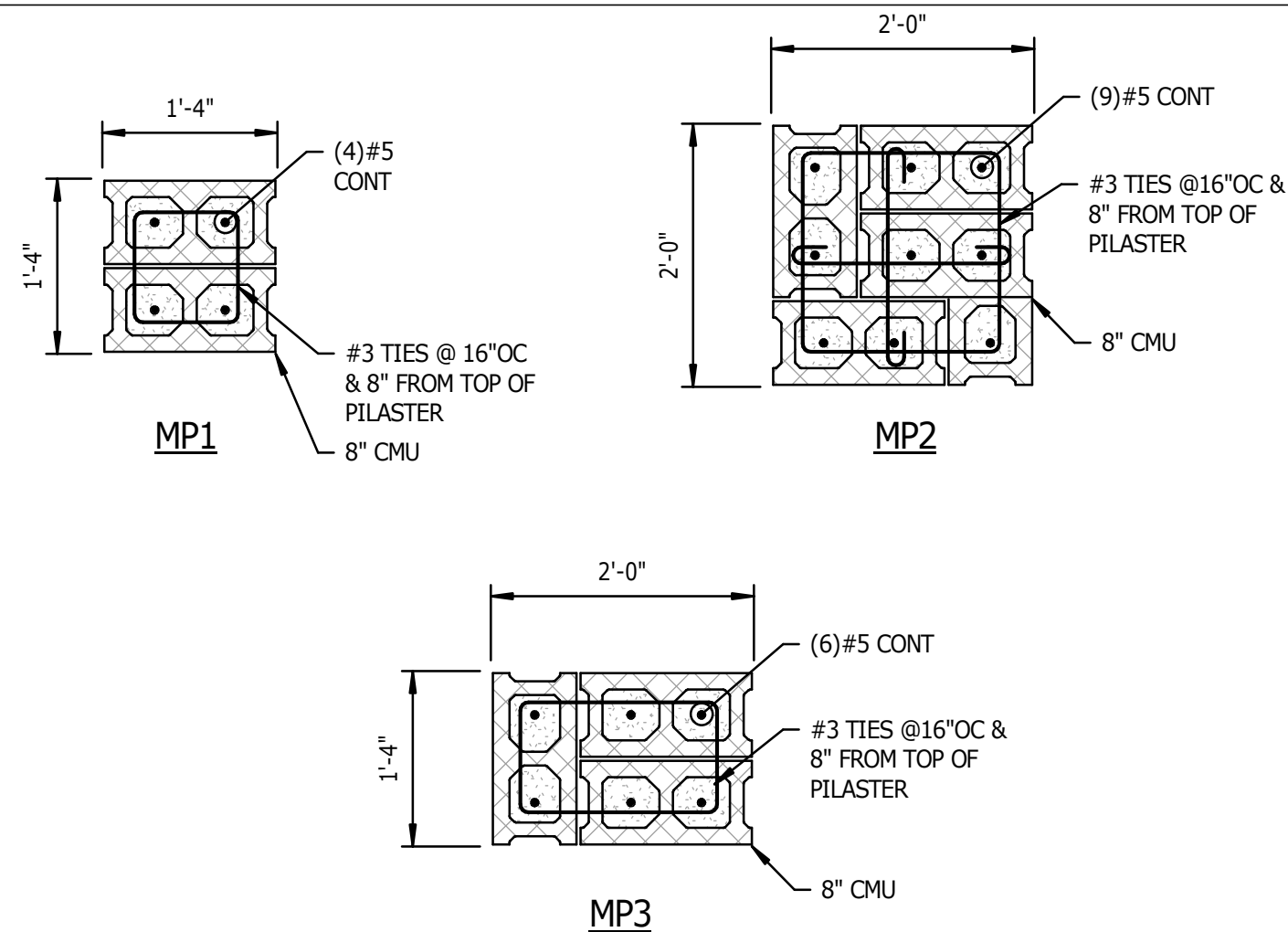
NOTES:
1. PROVIDE DOWELS TO FOUNDATION MATCHING SIZE OF VERTICAL REINFORCING, TYPICAL. SEE GENERAL NOTES OR MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE FOR LAP REQUIREMENTS.
2. ALL CONTROL JOINT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. FOR INTERIOR PARTITION WALLS, JOINTS SHALL HAVE A MAXIMUM SPACING DETERMINED FROM THE LESSER OF 1 1/2 TIMES THE WALL HEIGHT AND 25 FEET. FOR STRUCTURAL WALLS, CONTACT THE ENGINEER OF RECORD IF JOINTS ARE NOT LOCATED ON PLAN.
3. MASONRY WALL CONTROL JOINTS SHALL NOT BE LOCATED WITHIN 24" OF THE EDGES OF WALL OPENINGS.
4. DO NOT INSTALL CONTROL JOINTS IN STAIR OR ELEVATOR CORE WALLS.
5. MASONRY WALL CONTROL JOINTS DO NOT NECESSARILY ALIGN WITH VENEER CONTROL JOINT LOCATIONS. DO NOT INSTALL MASONRY WALL CONTROL JOINTS ONLY AT VENEER JOINT LOCATIONS.
6. WHERE A CONTROL JOINT OCCURS WITHIN A MASONRY SHEAR WALL, END WALL REINFORCING MUST BE INSTALLED ON EACH SIDE OF THE JOINT.

8 TYPICAL MASONRY WALL CONTROL JOINT
S4.1 3/4" = 1'-0"



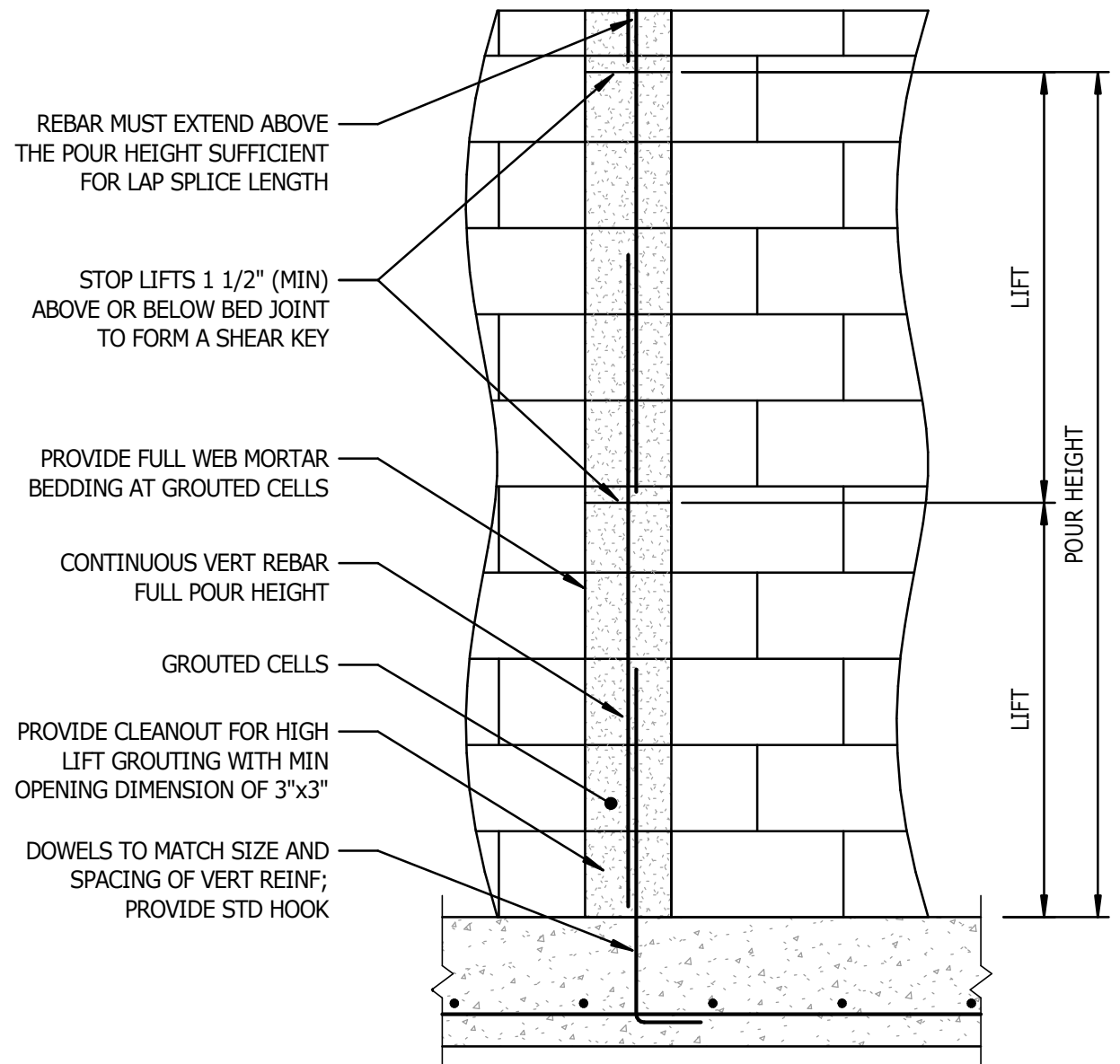
NOTES:
1. REINFORCING SHOWN IS A MINIMUM REQUIREMENT, INDIVIDUAL WALL SECTION REINFORCING REQUIREMENTS (SUCH AS NUMBER OR SIZE OF BARS) SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS SHOWN HEREIN. SEE INDIVIDUAL WALL SECTIONS AND SCHEDULES FOR VERTICAL REINFORCING REQUIREMENTS.
2. ALL DISCONTINUOUS REINFORCEMENT SHALL BE LAPPED PER MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE.
3. VERTICAL STEEL MUST BE SECURED IN PLACE BEFORE THE BLOCKS ARE LAID. ALL VERTICAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH MASONRY LINTELS AND BOND BEAMS, UNO.
4. AT OPENINGS WHERE STEEL BEAM LINTELS ARE PROVIDED, REINFORCE THE JAMB CELL TO THE BEARING ELEVATION OF THE LINTEL, AND REINFORCE THE NEXT ADJACENT CELL PAST THE END OF THE BEAM FULL HEIGHT AS SHOWN IN THIS DETAIL.
5. DETAIL DOES NOT APPLY TO INTERIOR NON-LOAD BEARING PARTITION WALLS.
6. PROVIDE MINIMUM (2) LEGS OF W1.7 HORIZONTAL JOINT REINFORCING @ 16"OC VERTICALLY.

4 MINIMUM WALL REINFORCING
S4.1 3/4" = 1'-0"



NOTES:
1. ALL DIMENSIONS SHOWN ARE NOMINAL DIMENSIONS.
2. SEE MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE FOR LAP REQUIREMENTS.
3. GROUT CELLS SOLID.

6 TYPICAL MASONRY PILASTERS
S4.1 3/4" = 1'-0"



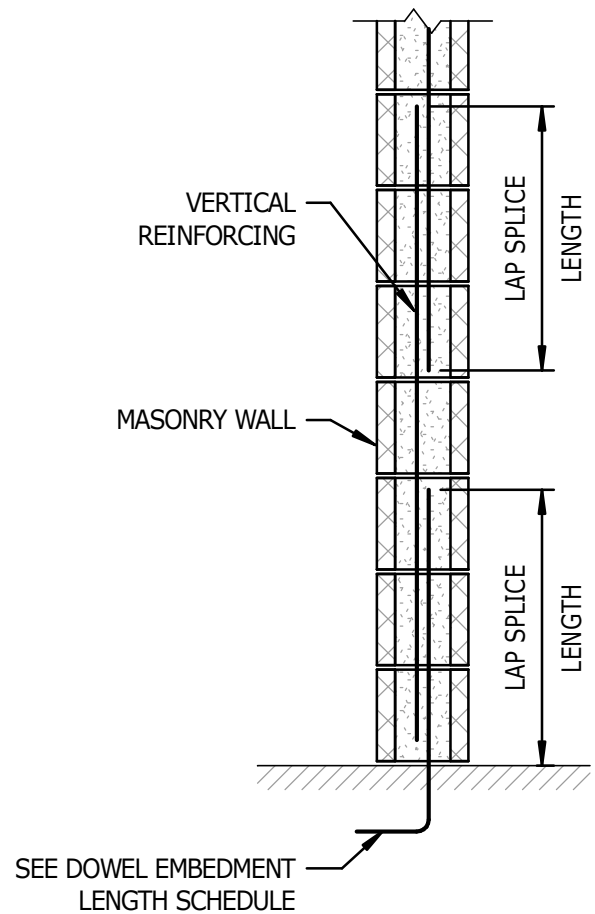
GENERAL GROUTING REQUIREMENTS:
1. ALL REINFORCED CELLS SHALL BE GROUTED SOLID.
2. REINFORCING BARS SHALL BE IN PROPER POSITION PRIOR TO PLACEMENT OF GROUT, NOT PUSHED DOWN INTO PREVIOUSLY PLACED GROUT. SAME REQUIREMENT APPLIES FOR EMBEDDED BOLTS AND FASTENERS.
3. MORTAR BEDDING UNDER THE FIRST COURSE OF BLOCK CELLS TO BE GROUTED SHALL PERMIT GROUT TO COME INTO DIRECT CONTACT WITH FOUNDATION.
4. PLACE MORTAR ON CROSS WEBS ADJACENT TO ALL GROUTED CELLS.
5. MORTAR THAT PROJECTS MORE THAN 1/2" INTO CELLS THAT ARE TO BE GROUTED SHALL BE REMOVED.
6. GROUTED CELLS SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT OF GROUT. TEN MINUTES AFTER PLACING GROUT, EACH GROUTED CELL SHALL BE RECONSOLIDATED WITH A VIBRATOR.
7. METAL LATH SHALL BE PLACED UNDER ALL BOND BEAMS IN ORDER TO CONTAIN GROUT, FELT OR OTHER BOND BREAKING MATERIAL IS NOT PERMITTED. AS AN ALTERNATIVE TO THIS, "U"-SHAPED LINTEL BLOCKS MAY BE USED FOR BOND BEAMS.
8. EITHER LOW LIFT GROUTING OR HIGH LIFT GROUTING PROCEDURES MAY BE UTILIZED, AT THE CONTRACTOR'S OPTION.

LOW LIFT GROUTING PROCEDURE:
1. LAY WALL TO MAXIMUM OF 5'-0".
2. CLEAN MORTAR AND OTHER DEBRIS FROM CELLS TO BE GROUTED.
3. PLACE REINFORCING BARS IN PROPER POSITION.
4. PLACE GROUT UP TO LIFT HEIGHT AND VIBRATE.

HIGH LIFT GROUTING PROCEDURE:
1. CLEANOUT OPENINGS SHALL BE PROVIDED IN THE FACE SHELLS OF THE BOTTOM COURSE OF ALL CELLS TO BE GROUTED. OPENINGS SHALL BE LARGE ENOUGH TO ALLOW REMOVAL OF DEBRIS.
2. LAY WALL TO MAXIMUM POUR HEIGHT AND CLEAN DEBRIS FROM OPENINGS. PLACE REINFORCING BARS IN PROPER POSITION.
3. CLEAN MORTAR AND OTHER DEBRIS FROM CELLS TO BE GROUTED.
4. MASONRY SHALL CURE A MINIMUM OF 4 HOURS PRIOR TO GROUTING.
5. PLACE GROUT TO THE FOLLOWING HEIGHTS: MAXIMUM LIFT HEIGHT IS 5'-0"; MAXIMUM POUR HEIGHT IS 12'-0" UNLESS EXPRESSLY COORDINATED WITH THE STRUCTURAL ENGINEER.
6. AFTER THE LIFT IS POURED, VIBRATE TO ELIMINATE ALL AIR VOIDS. WAIT BETWEEN 3 AND 10 MINUTES, THEN RECONSOLIDATE BY VIBRATING AGAIN. CONTINUE THIS PROCEDURE FOR FULL POUR HEIGHT. RECONSOLIDATE THE PRIOR LIFT BY EXTENDING THE VIBRATOR THROUGH THE CURRENT LIFT INTO THE PREVIOUS LIFT.
7. GROUT SLUMP MUST BE MAINTAINED BETWEEN 10 AND 11 INCHES FOR HIGH LIFT GROUTING.

1 TYPICAL MASONRY GROUT REQUIREMENTS
S4.1 3/4" = 1'-0"

MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE	
BAR SIZE	LAP SPLICE
#3	27"
#4	36"
#5	45"
#6	54"
#7	63"
#8	72"



3 MASONRY REINFORCING SPLICE SCHEDULE
S4.1 3/4" = 1'-0"

NEW CONSTRUCTION FOR

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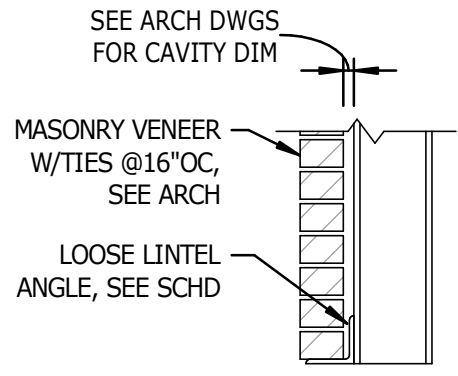
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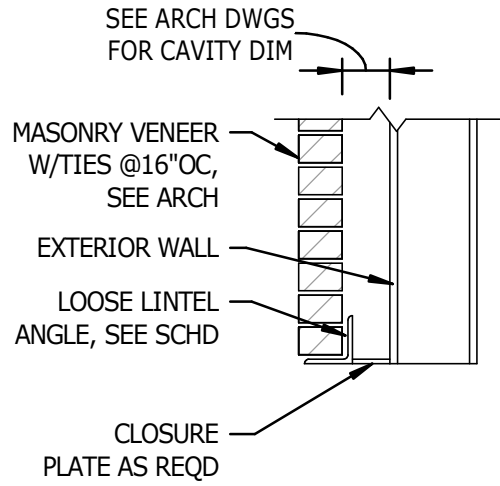
Revisions
Description Date

Date
Issue Date
22038
Drawn By
VNA
Sheet No.
S4.1
Checked By
MBC
Sheet Title
TYPICAL MASONRY DETAILS

STEEL LOOSE LINTEL ANGLE SUPPORTING MASONRY VENEER	
CLEAR OPENING	LOOSE LINTEL ANGLE
UP TO 5'-0"	L4x4x3/8
5'-1" TO 8'-0"	L6x4x3/8 (LLV)
8'-1" TO 10'-0"	L7x4x3/8 (LLV)
10'-1" TO 12'-0"	L8x4x1/2 (LLV)



WITHOUT CLOSURE PLATE



WITH CLOSURE PLATE

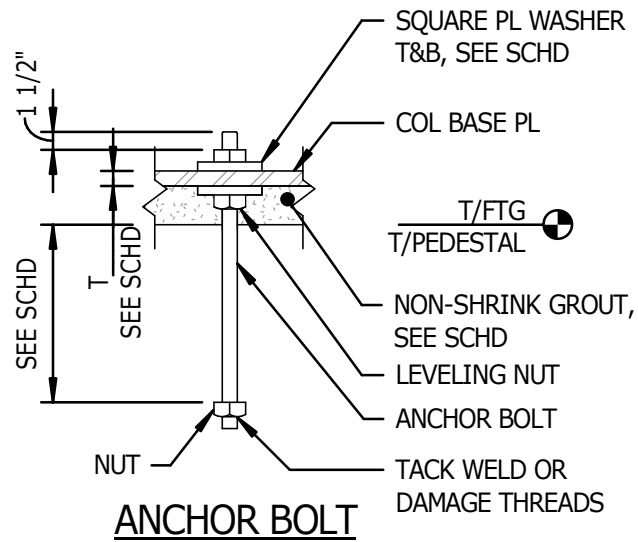
- NOTES:
1. ALL LOOSE LINTELS SHALL BE PAINTED OR GALVANIZED, SEE ARCHITECTURAL DRAWINGS.
 2. PROVIDE 6" MINIMUM BEARING FOR OPENINGS UP TO 8'-0" WIDE. PROVIDE 8" MINIMUM BEARING FOR OPENINGS OVER 8'-0" WIDE.
 3. SEE ARCHITECTURAL DRAWINGS FOR ANGLE PLACEMENT AND FLASHING.
 4. LOOSE LINTEL ANGLES ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF OPENINGS REQUIRING ANGLES.
 5. FOR CLEAR OPENING DIMENSIONS GREATER THAN THOSE SHOWN IN THE SCHEDULE, SEE OTHER DETAILS OR CONTACT THE ENGINEER OF RECORD.

1

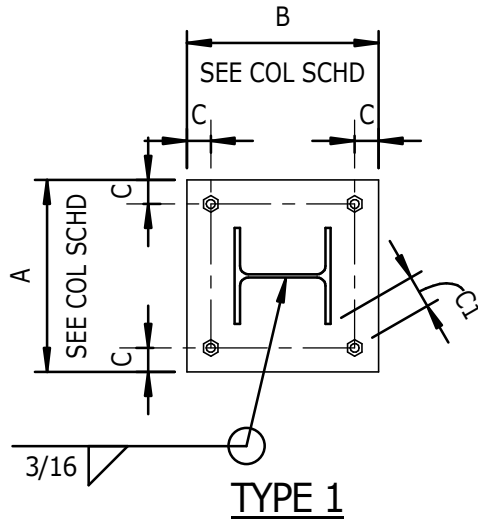
S5.1

STEEL LOOSE LINTEL SCHEDULE

NTS



ANCHOR BOLT



TYPE 1

BOLT SIZE	3/4\"
BOLT GRADE (KSI)	36
DIMENSION "C"	1 1/2\"
SQUARE PL WASHER SIZE	1/4"x2"
GROUT THICKNESS	2"
TIGHTENING CLEARANCE "C1"	1 3/16"

- NOTES:
1. "C1" DIMENSION IS MINIMUM FOR BASE PLATE SIZE. DETAILER TO LAYOUT ANCHOR BOLTS BASED ON "C" DIMENSION FROM EDGE OF BASE PLATE DIMENSION IN COLUMN SCHEDULE.

2

S5.1

STEEL COLUMN BASE PLATE SCHEDULE

NTS

NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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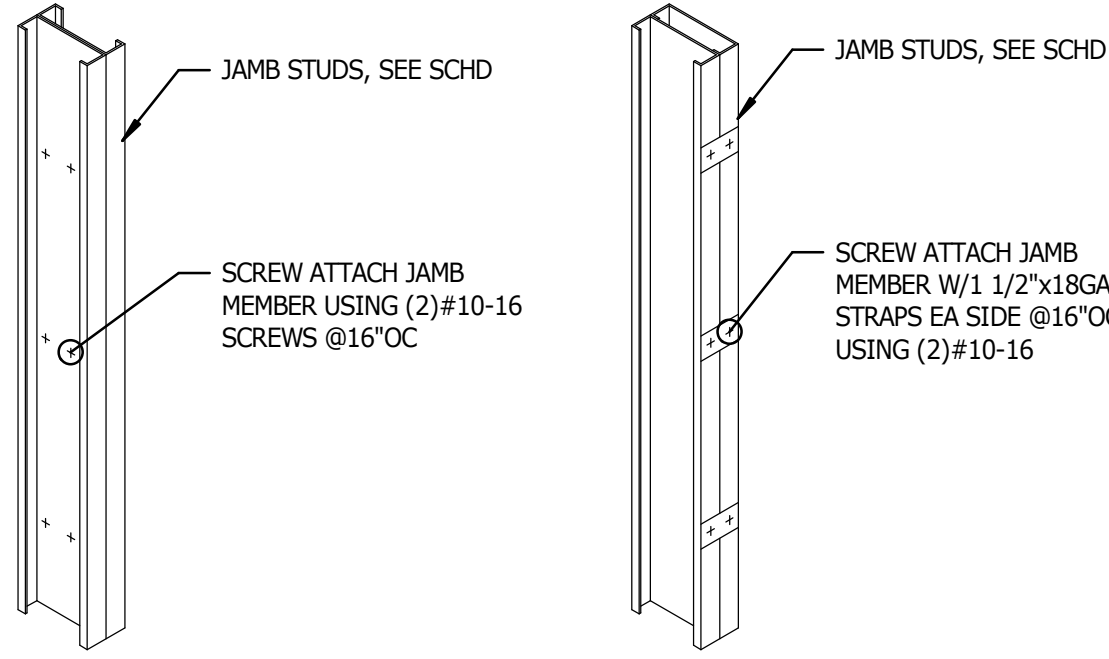
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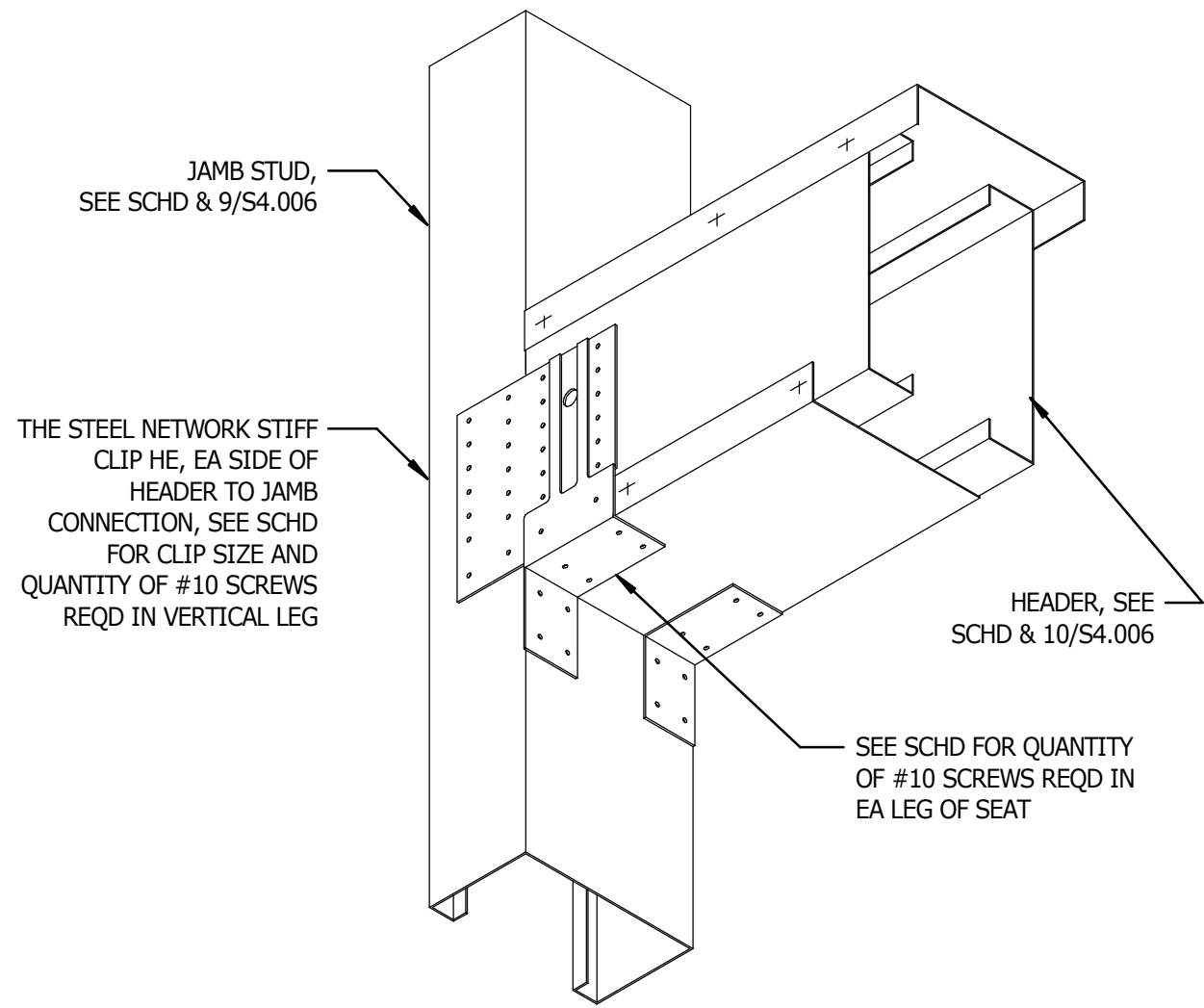
Date Issue Date	Project No. 22038
Drawn By VNA	Sheet No. S5.1
Checked By MBC	

Sheet Title
STEEL FRAMING DETAILS



NOTE:
1. IN LIEU OF SCREWS/STRAPS SHOWN, MULTIPLE STUDS CAN BE WELDED TOGETHER PER GENERAL NOTES.

10
S5.3 NTS
MULTIPLE STUD CONNECTION DETAIL



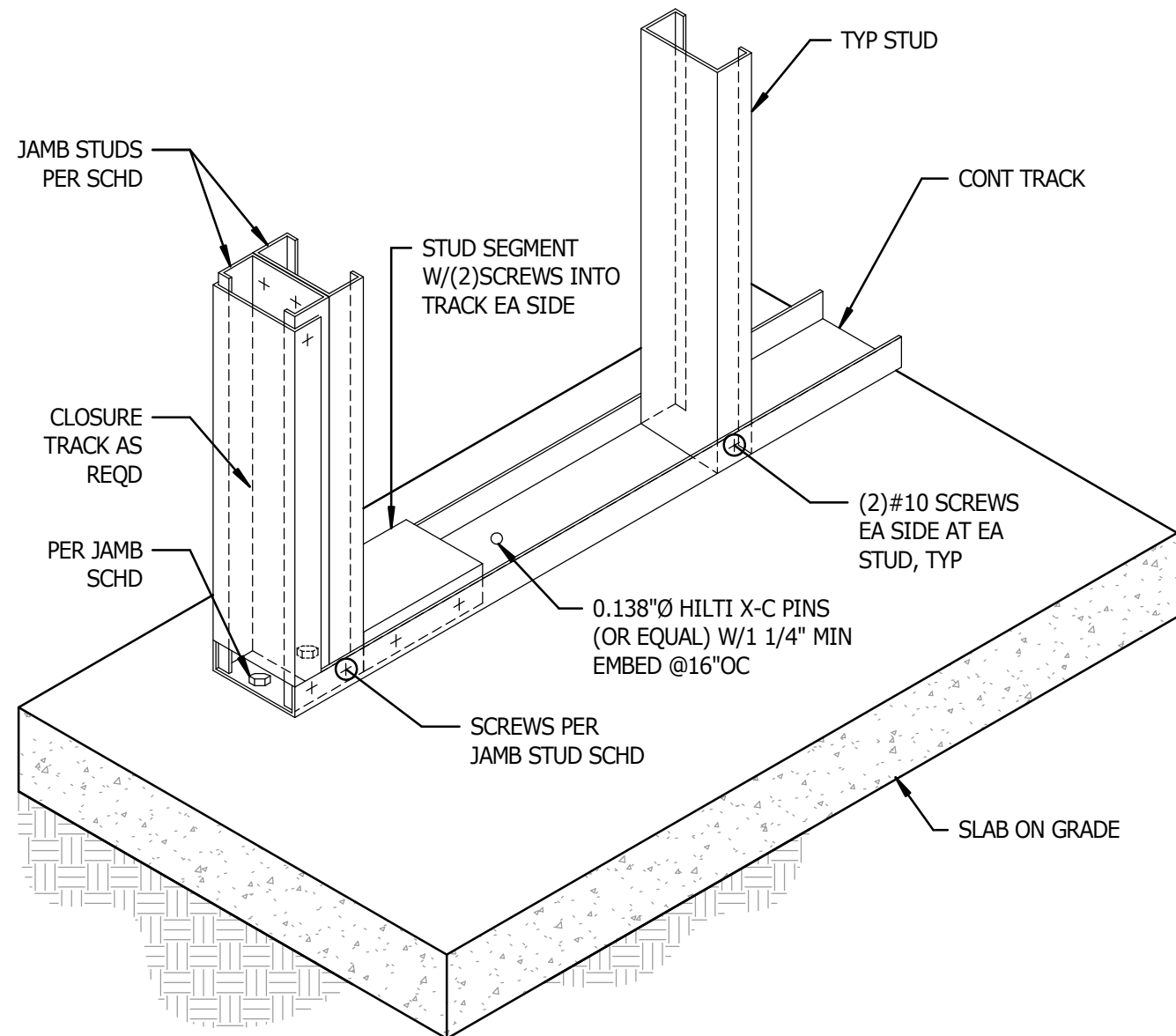
7
S5.3 NTS
HEADER CONNECTION DETAIL

LOAD BEARING WALL CONSTRUCTION SCHEDULE						
STORY	TYPE	SIZE/GAUGE	Fy	SPACING	BRIDGING	NOTES
SOG TO ROOF	EXTERIOR	600S200-54	50 KSI	16"OC	4'-0"OC MAX	-
	INTERIOR	362S200-43	50 KSI	12"OC	4'-0"OC MAX	-

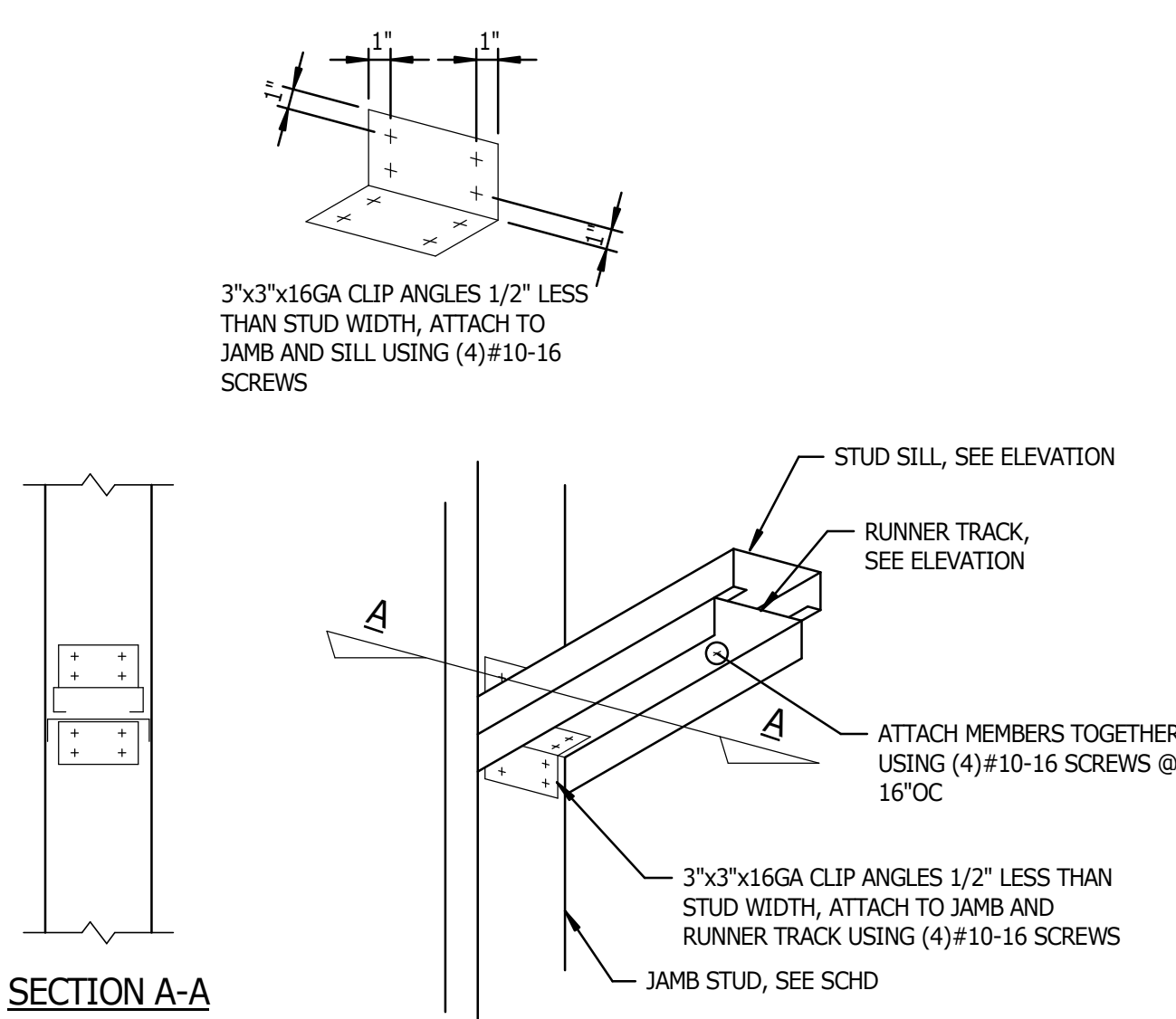
NON-LOAD BEARING EXTERIOR WALL CONSTRUCTION SCHEDULE						
STORY	TYPE	SIZE/GAUGE	Fy	SPACING	BRIDGING	NOTES
SOG TO ROOF	EXTERIOR	600S162-54	50 KSI	16"OC	4'-0"OC MAX	-
	EXTERIOR, CORNER ZONE	600S162-54	50 KSI	12"OC	4'-0"OC MAX	CORNER ZONE WIDTH IS 8'-0"

- NOTES:
1. STUD GAUGE (MIL)
FLANGE WIDTH (IN)
STUD DEPTH (IN)
2. "Fy" INDICATES MINIMUM YIELD STRENGTH.
3. SEE S5.3 FOR TYPICAL DETAILS.
4. TOP AND BOTTOM TRACK SHALL BE 54-MIL (16GA) MINIMUM THICKNESS.

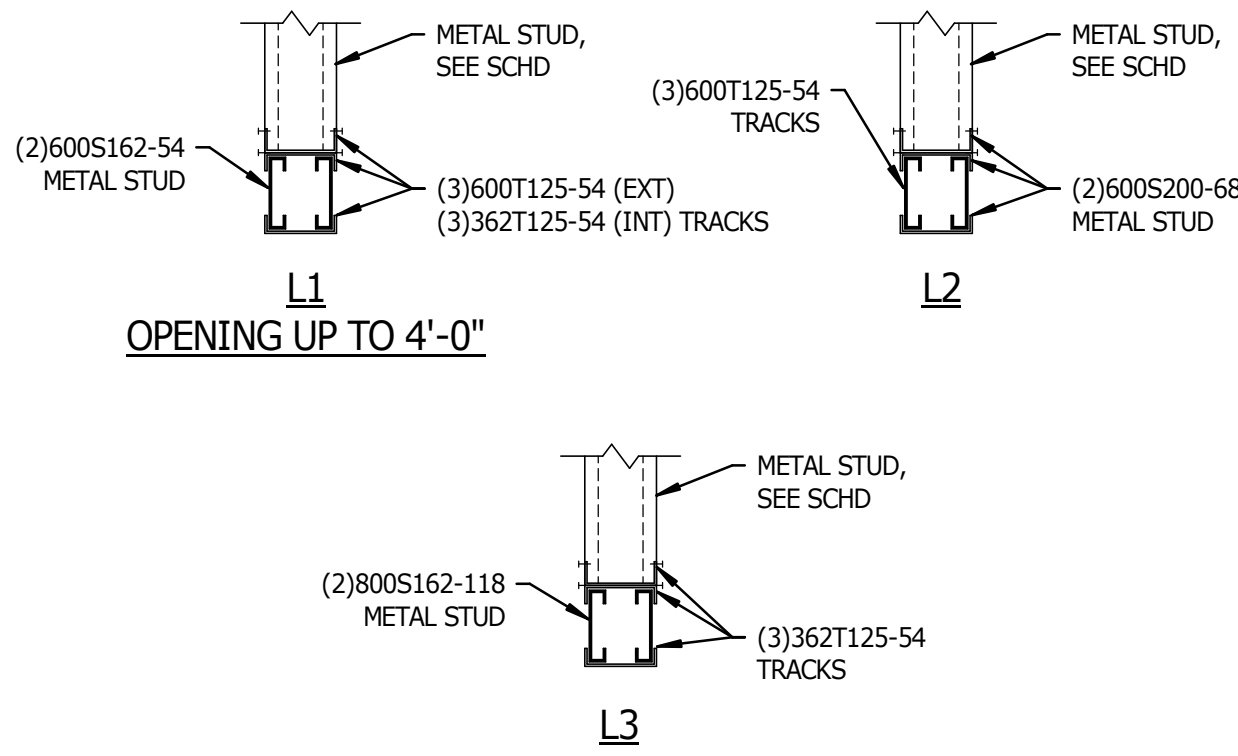
1
S5.3 NTS
WALL CONSTRUCTION SCHEDULE



11
S5.3 NTS
WALL BASE CONNECTION DETAIL

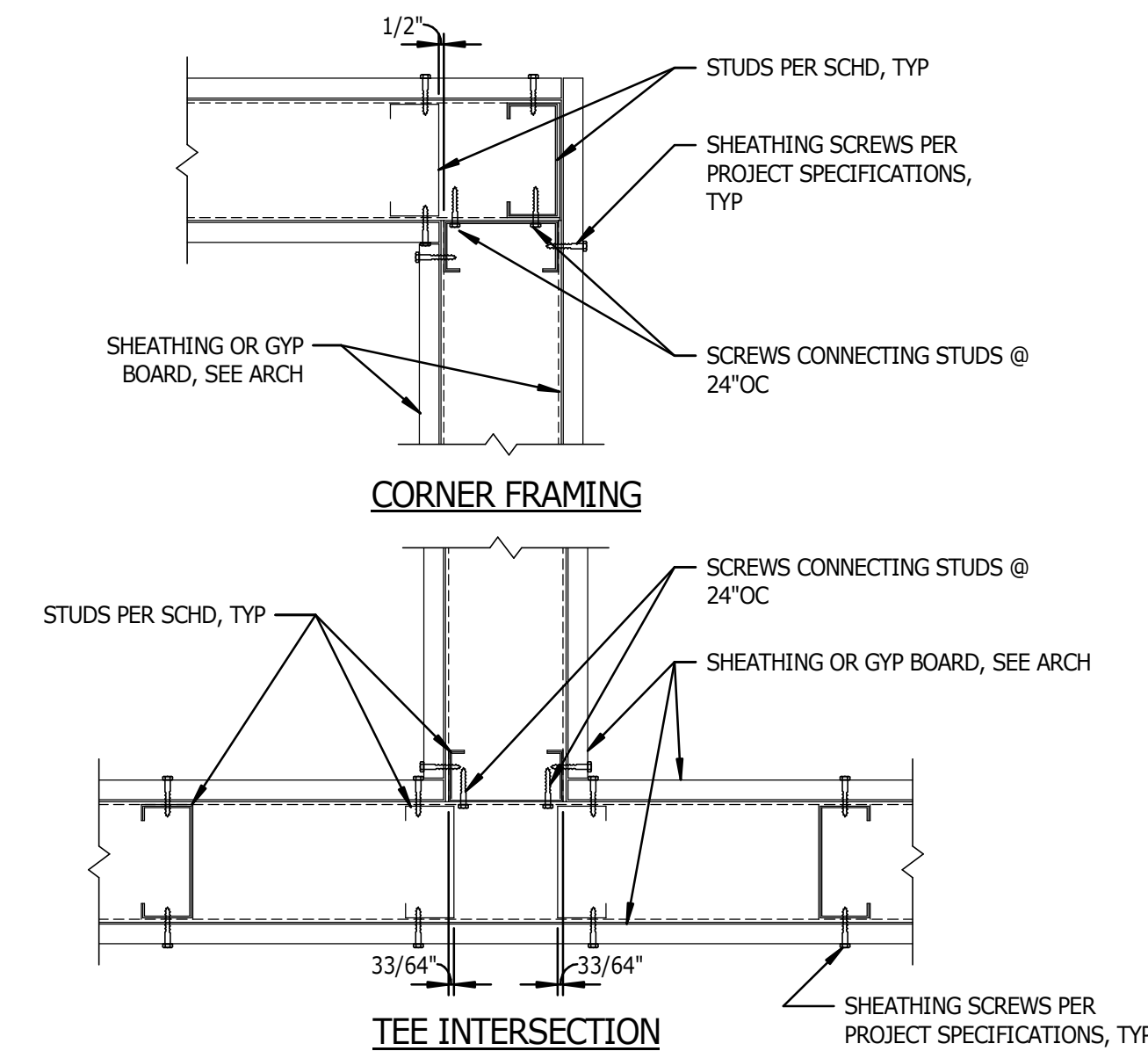


8
S5.3 NTS
STUD SILL DETAIL

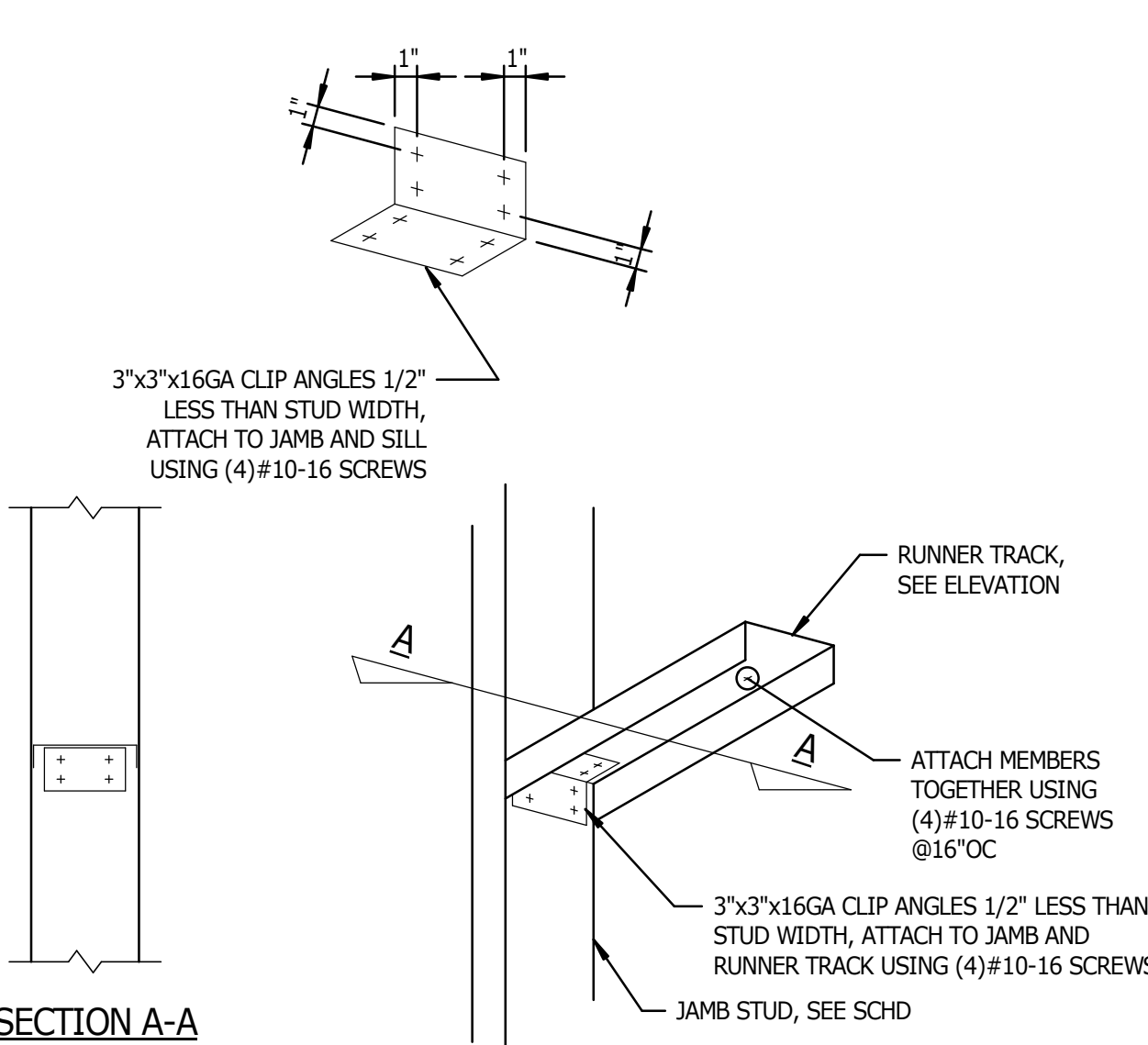


- NOTES:
1. PROVIDE (2) JACK STUDS AND (2) FULL HEIGHT STUDS AT EACH END OF COLD-ROLLED HEADERS, TYPICAL. MULTIPLE STUDS SHALL BE SECURELY FASTENED TOGETHER FULL HEIGHT, SEE 10/S5.3.
2. PROVIDE WEB STIFFENERS AT POINT LOAD FROM GIRDER TRUSS AND ENDS OF HEADERS.
3. COLD ROLLED HEADER MEMBERS SHALL BE UNPUNCHED SECTIONS.
4. L4 BEARING CONNECTION, SEE 5/S5.4.
5. REFER TO ARCHITECTURAL DRAWINGS FOR OPENING DIMENSIONS AND EXACT LOCATIONS.

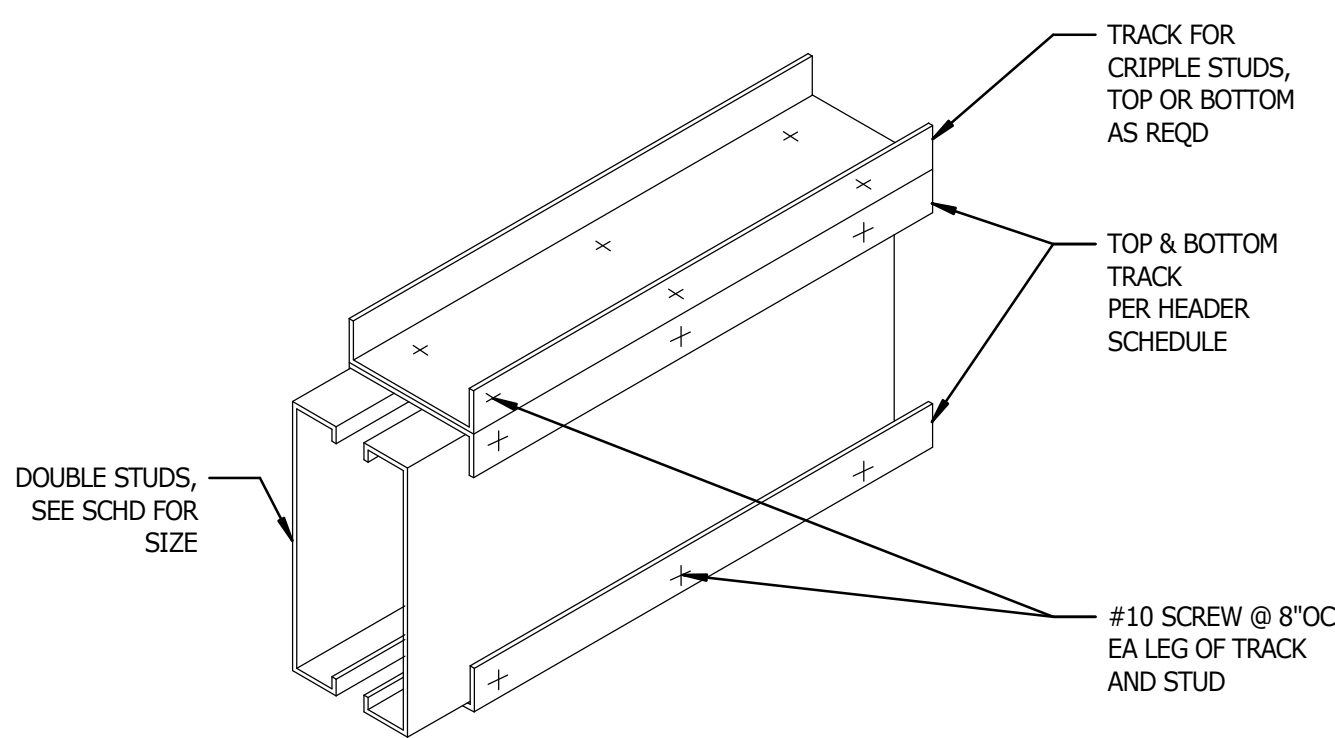
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S5.3 NTS
LOAD BEARING HEADER SCHEDULE



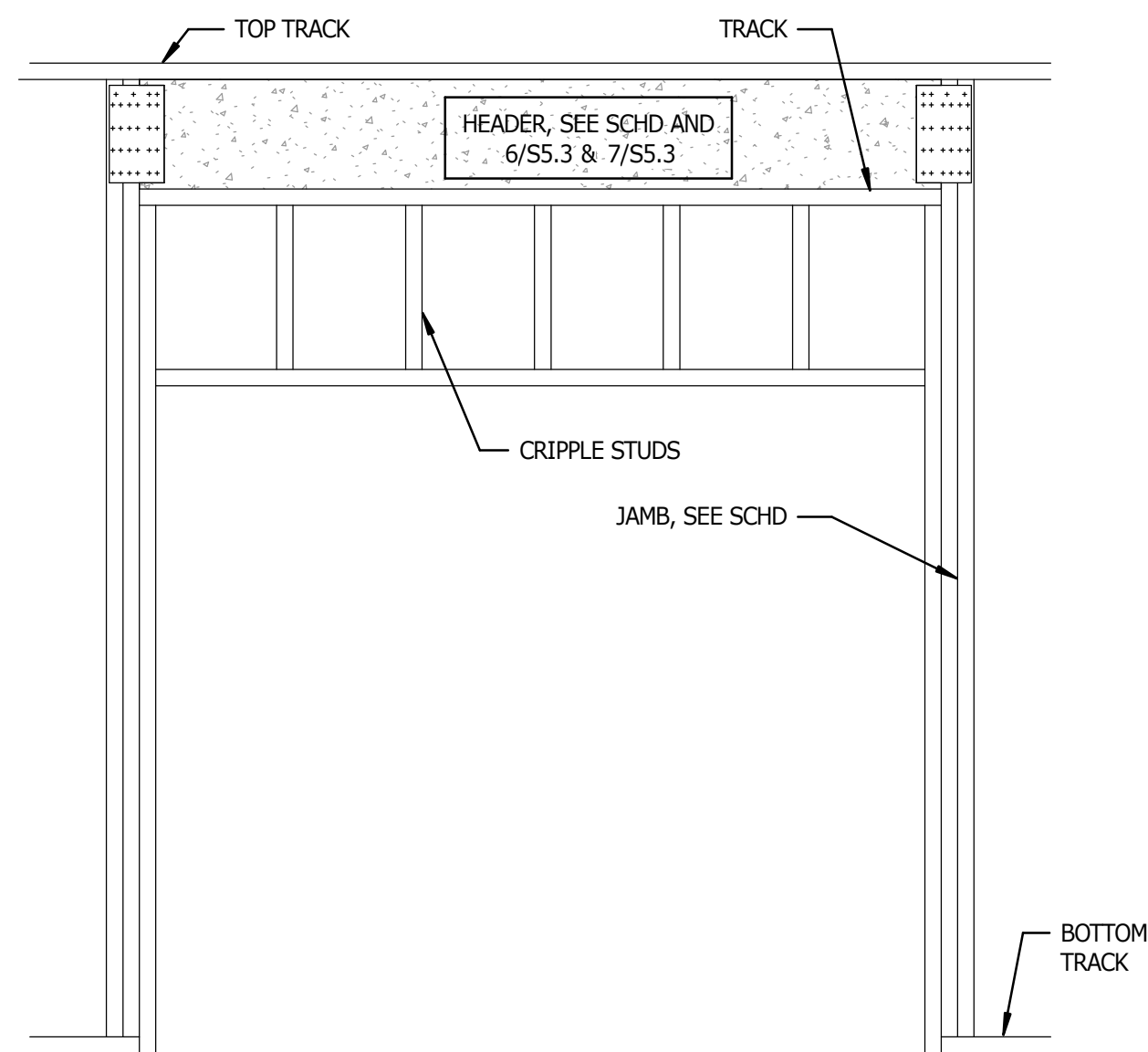
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S5.3 NTS
METAL STUD WALL INTERSECTION DETAIL



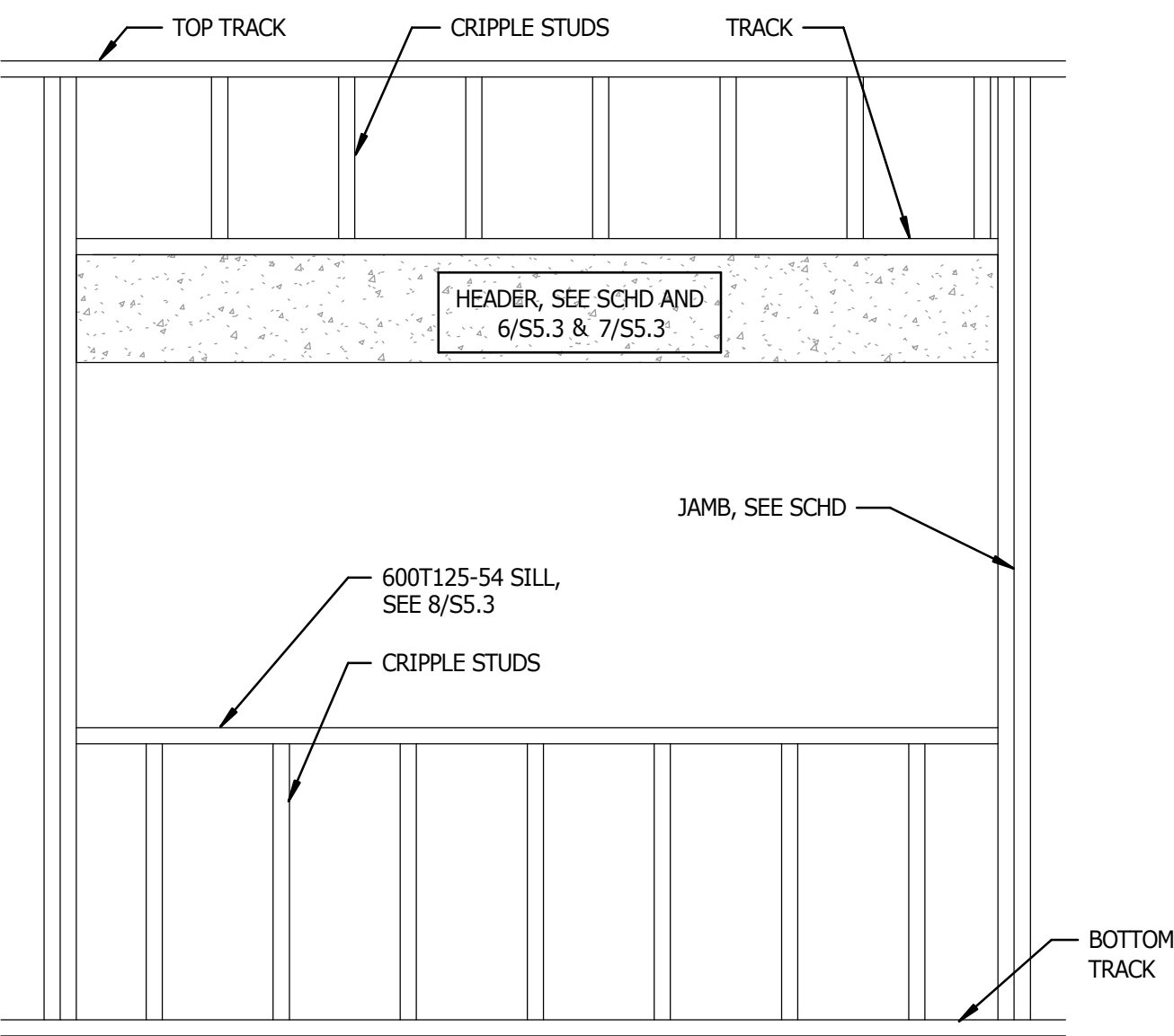
9
S5.3 NTS
RUNNER TRACK DETAIL



6
S5.3 NTS
BOXED BEAM DETAIL



INTERIOR CONDITION



EXTERIOR CONDITION

2
S5.3 NTS
WALL OPENING ELEVATION

NEW CONSTRUCTION FOR

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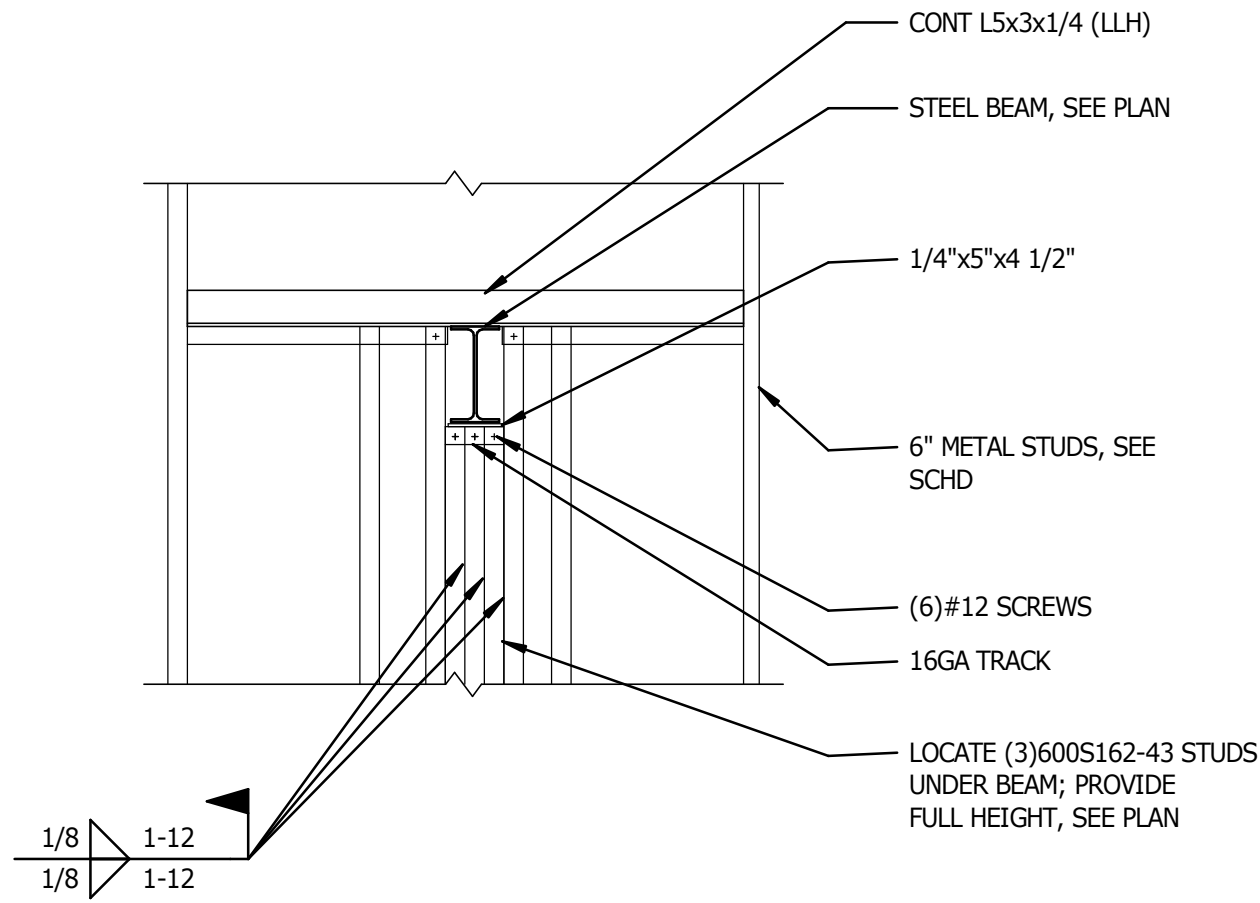
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Description Date

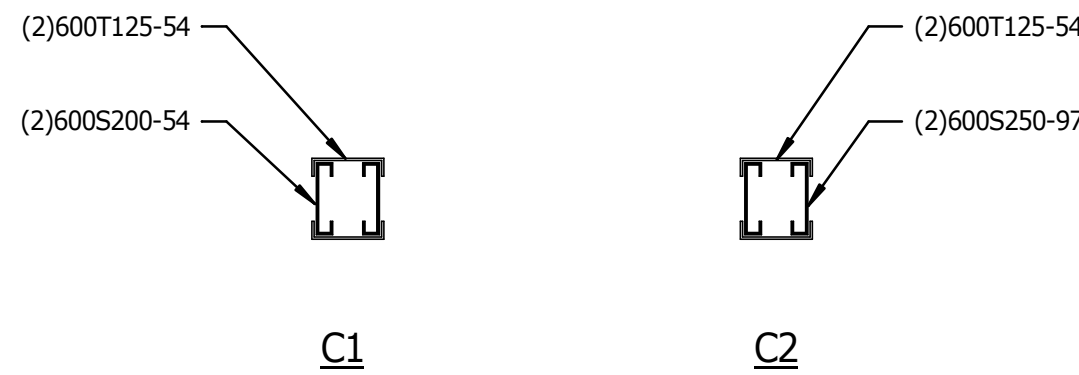
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22038
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Sheet No.
S5.3
Checked By
MBC
Sheet Title
METAL STUD DETAILS

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NEW CONSTRUCTION FOR
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VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

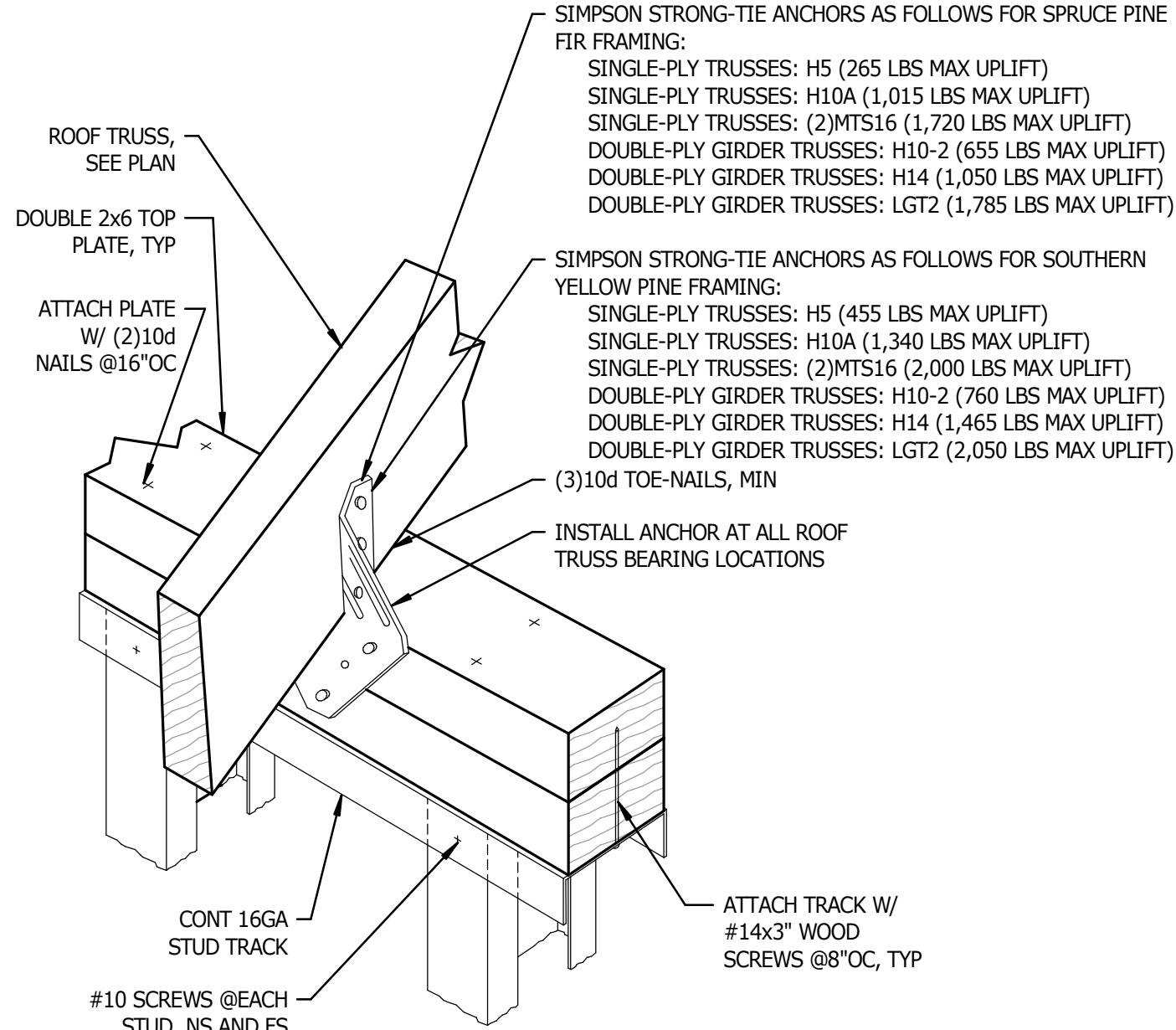


10
S5.4
NTS
METAL STUD SUPPORT OF STEEL BEAM



NOTES:
1. COLD ROLLED HEADER MEMBERS SHALL BE UNPUNCHED SECTIONS.

11
S5.4
3/4\"/>

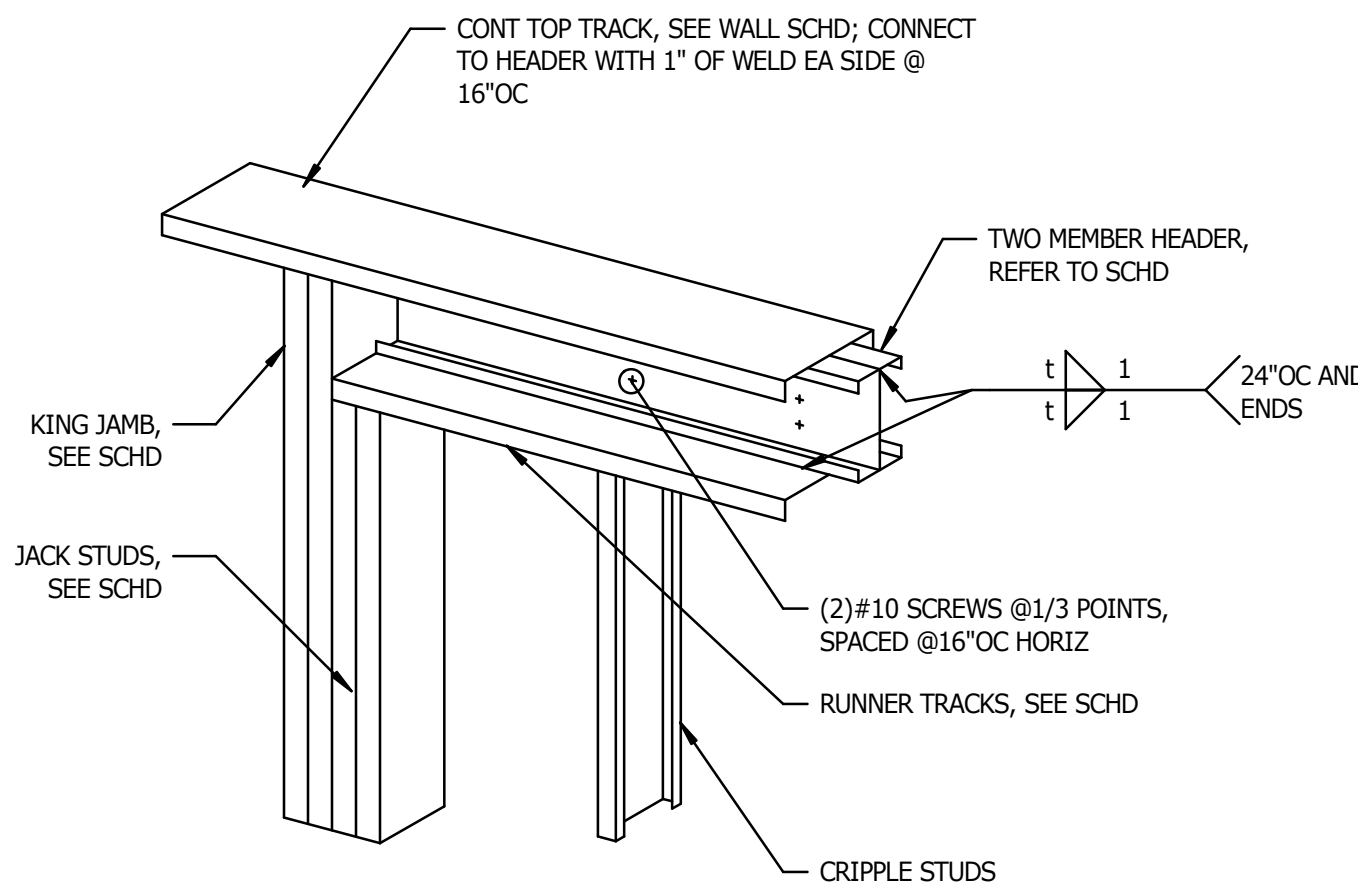


STUD UPLIFT ANCHOR REQUIREMENTS	
SOUTHERN YELLOW PINE FRAMING, TRUSS SPACING @24"OC	
TRUSS REACTION	ANCHOR TYPE
LESS THAN 330 LBS	NONE
330 LBS TO 1,200 LBS	H2.5A
1,200 LBS TO 2,500 LBS	H2.5A PLUS H6
GREATER THAN 2,500 LBS	CONTACT ENGR

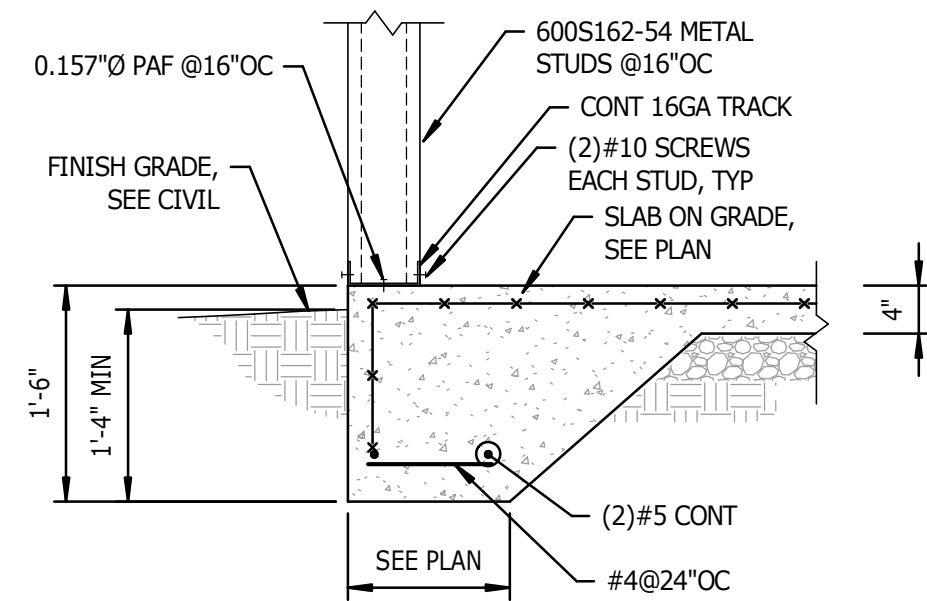
<u>STUD UPLIFT ANCHOR REQUIREMENTS</u>	
SPRUCE PINE FIR FRAMING, TRUSS SPACING @24"OC	
TRUSS REACTION	ANCHOR TYPE
LESS THAN 330 LBS	NONE
330 LBS TO 1,100 LBS	H2.5A
1,100 LBS TO 2,250 LBS	H2.5A PLUS H6
GREATER THAN 2,250 LBS	CONTACT ENGR

NOTES:
1. TRUSS MANUFACTURER OR CONTRACTOR SHALL SUBMIT FOR ADDITIONAL HOLDOWN ANCHORS AT TRUSS GIRDER, MULTI-PLY TRUSSES, JACK TRUSSES, AND HIP AND VALLEY TRUSSES.

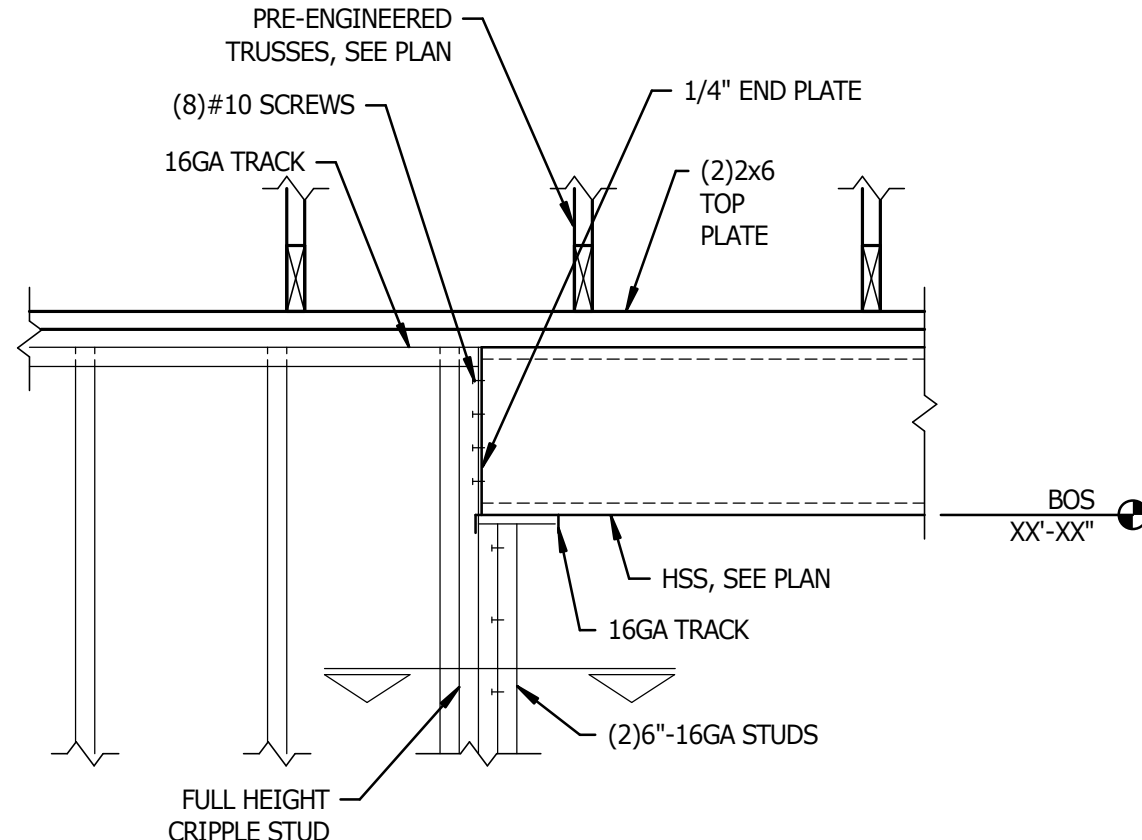
7
S5.4
NTS
TYPICAL ROOF TRUSS CONNECTION



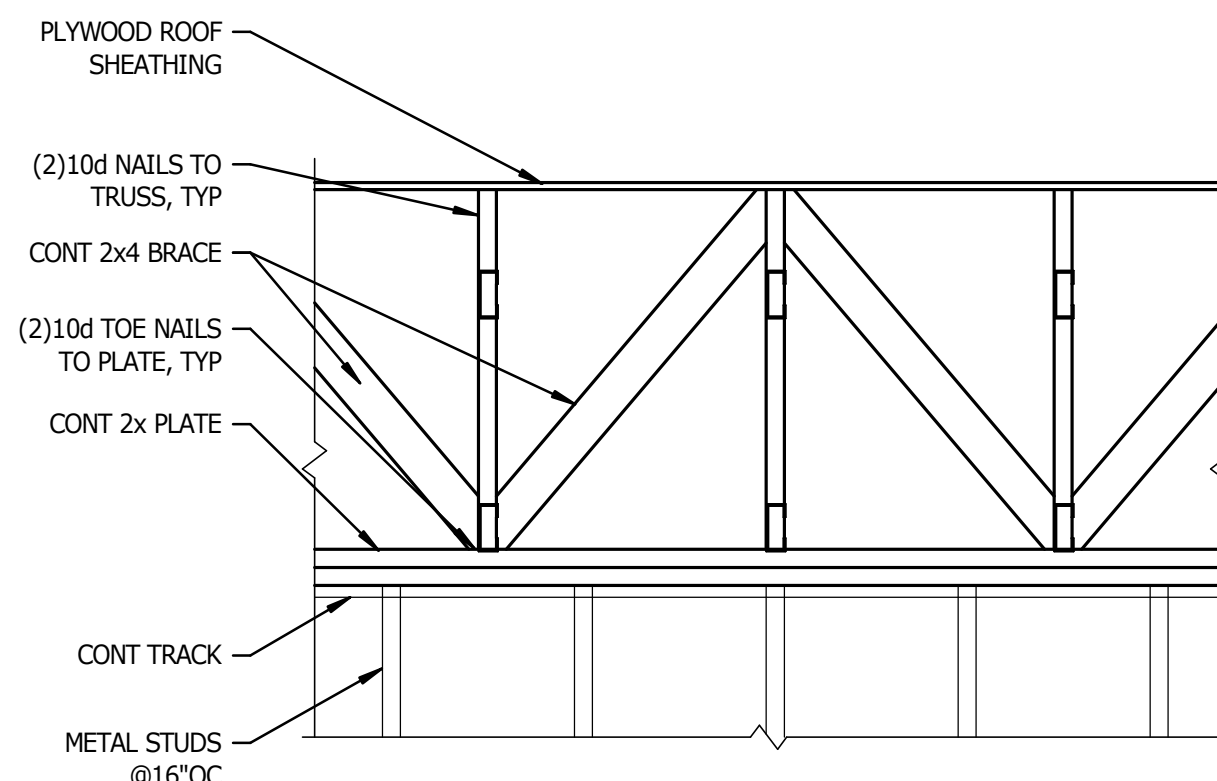
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S5.4
NTS
HEADER CONNECTION DETAIL



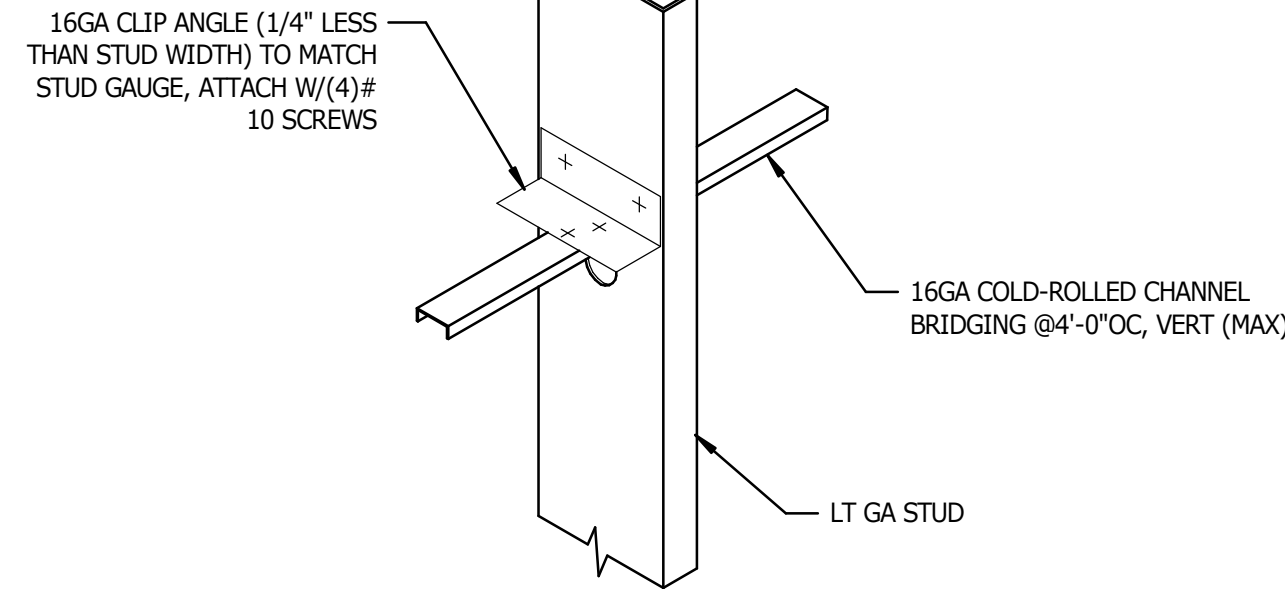
4
S5.4
NTS
AT PERIMETER FOOTING



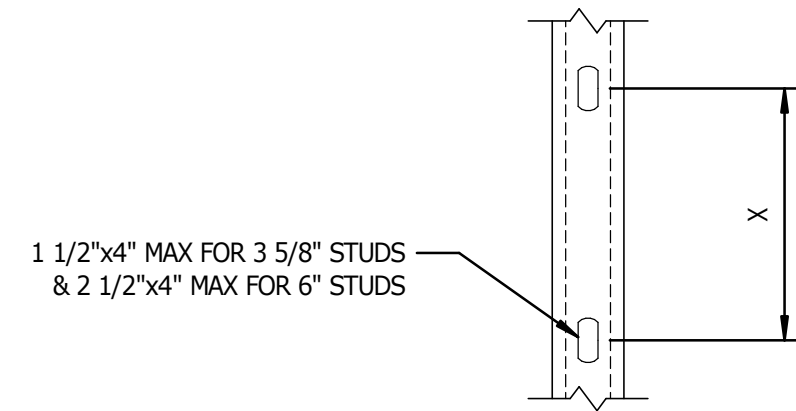
5
S5.4
NTS
TUBE BEARING ON METAL STUDS



6
S5.4
NTS
TYP BRACING BTWN ROOF TRUSSES AT BEARING WALLS



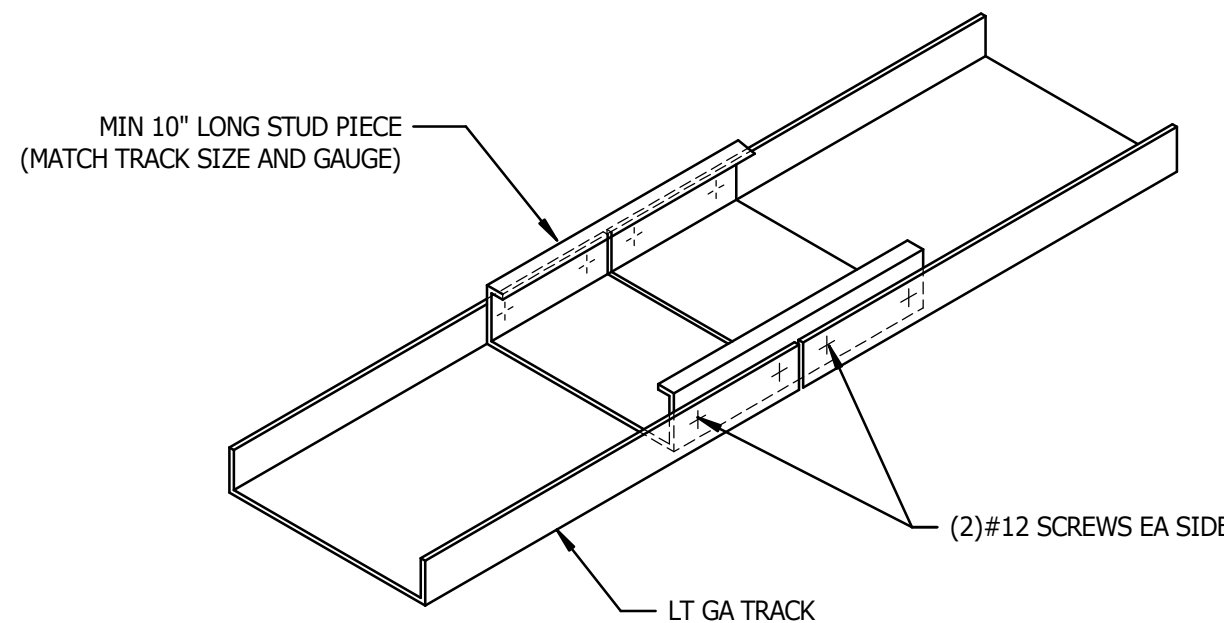
1
S5.4
NTS
METAL STUD BRIDGING DETAIL



H	X
UP TO 12'-0"	H/3 MAXIMUM
UP TO 16'-0"	H/4 MAXIMUM

NOTES:
1. ALSO SEE 7/45-400.

2
S5.4
NTS
PUNCHED OPENINGS IN METAL STUDS



NOTES:
1. SPLICE SHALL OCCUR OVER CENTERLINE OF VERTICAL STUD, TYP.

3
S5.4
NTS
TYPICAL BOTTOM TRACK SPLICE

NEW CONSTRUCTION FOR

GIVEN MEMORIAL LIBRARY
VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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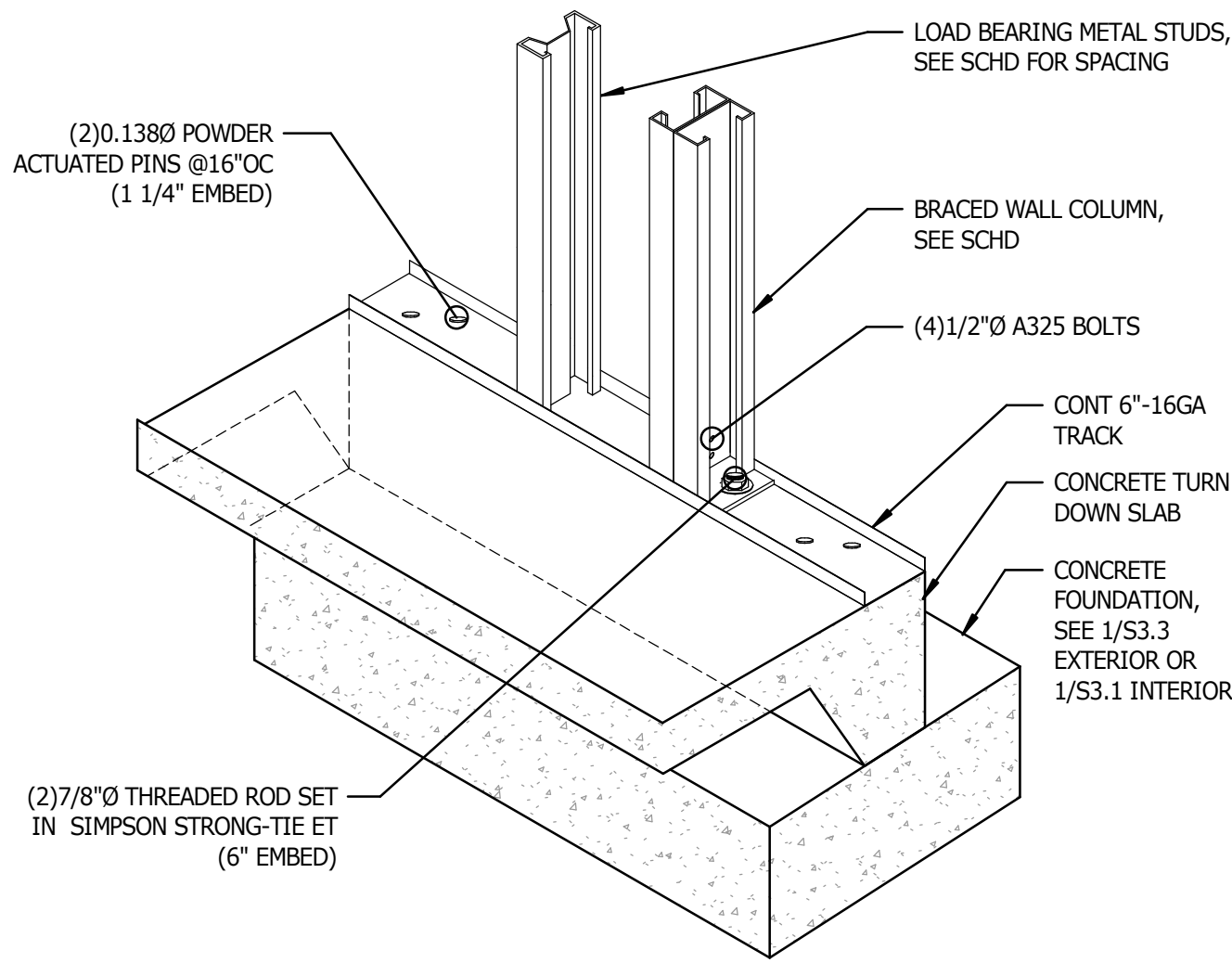
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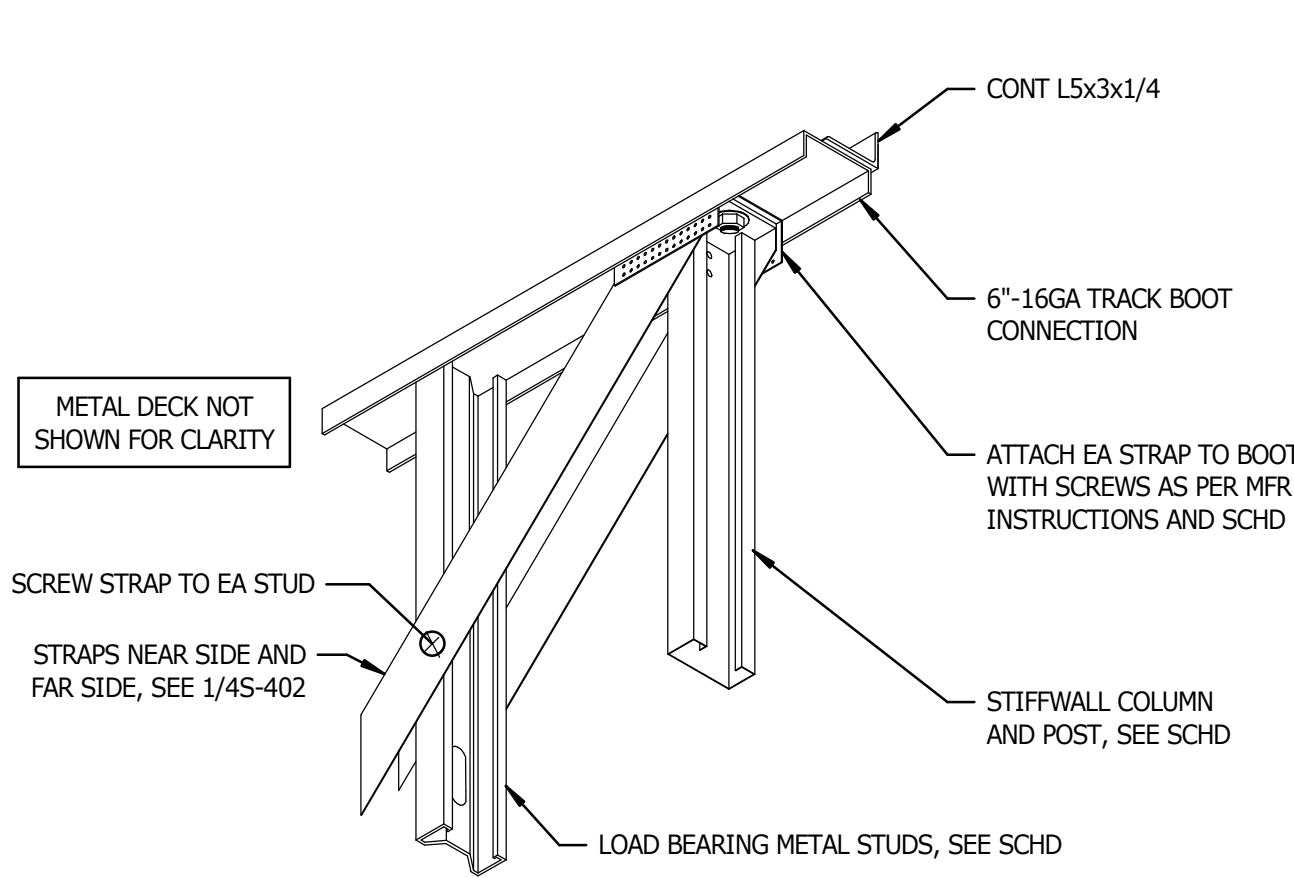
Date Issue Date	Project No. 22038
Drawn By VNA	Sheet No. S5.4
Checked By MBC	
Sheet Title METAL STUD DETAILS	

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300 W. Warren Street, Raleigh, NC 27601



- NOTES:
1. STIFFWALL BRACED WALL SYSTEM DESCRIBED AS PROVIDED BY "THE STEEL NETWORK".
 2. REFER TO MANUFACTURER'S LITERATURE FOR INSTALLATION GUIDELINES AND REQUIREMENTS.

10
S5.5
NTS
BRACED WALL BASE CONNECTION



- NOTES:
1. STIFFWALL BRACED WALL SYSTEM DESCRIBED AS PROVIDED BY "THE STEEL NETWORK".
 2. REFER TO MANUFACTURER'S LITERATURE FOR INSTALLATION GUIDELINES AND REQUIREMENTS.

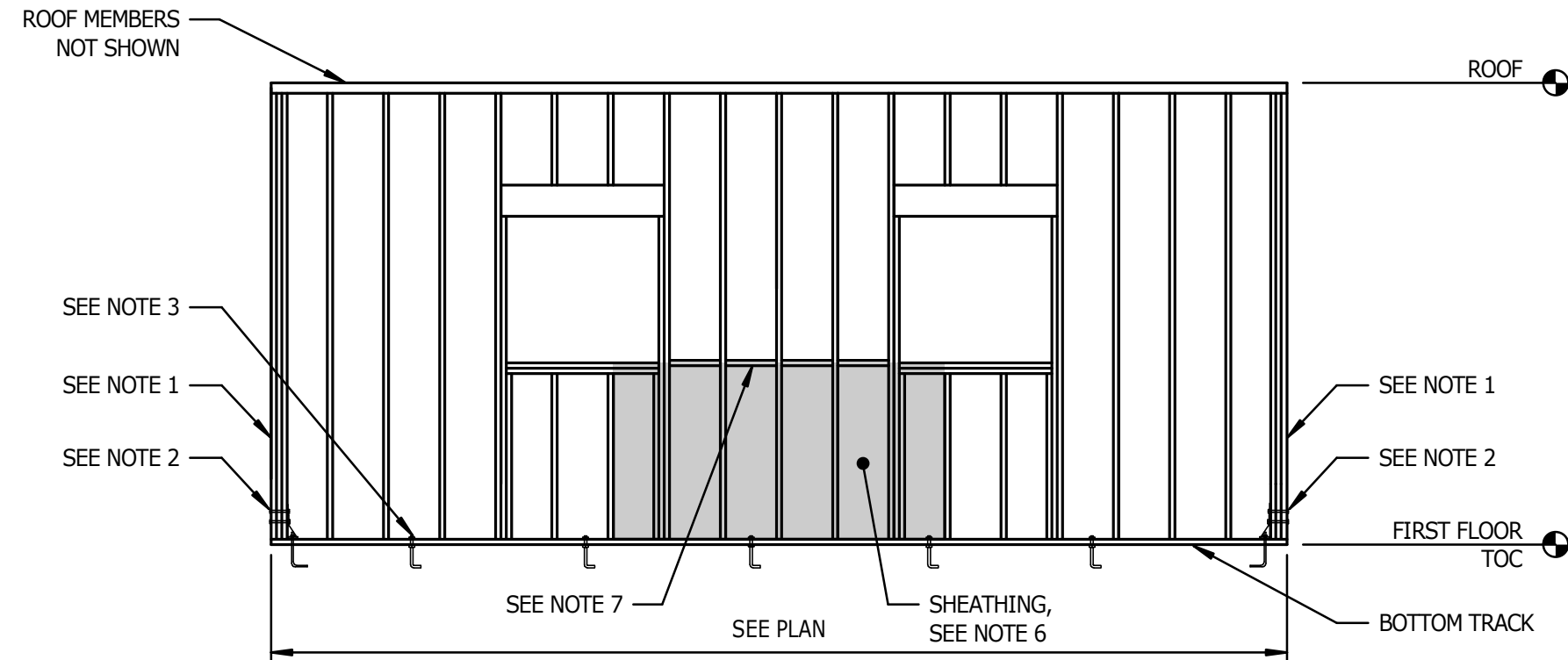
7
S5.5
NTS
TOP OF METAL STRAP CONNECTION

METAL STUDBRACED WALL SCHEDULE						
BW#	COLUMN	BRACING (SEE NOTE 4)	BOOT TYPE	COLUMN CONNECTION TO BOOT	FLOOR CONNECTION TO BOOT	STRAP TRACK #12 SCREWS
BW2	600C/STW250-54	(2)STRAPS 4"-16GA	SMALL BOOT	(4)1/2"Ø A325 BOLTS	(2)7/8"Ø	9

METAL STUD SHEAR WALL SCHEDULE									
MARK	SHEATHING TYPE	SCREW TYPE	SCREW SPACING			END CONDITION			NOTES
			PANEL EDGE	AROUND OPENINGS	PANEL FIELD	END POST	HOLDDOWN	DETAIL	
BW1	7/16" OSB	#8	4"OC	4"OC	12"OC	(2)600S250-68 B-B	SWS600 STIFFWALL BASE PLATE	10/S5.5	7/8"Ø AB

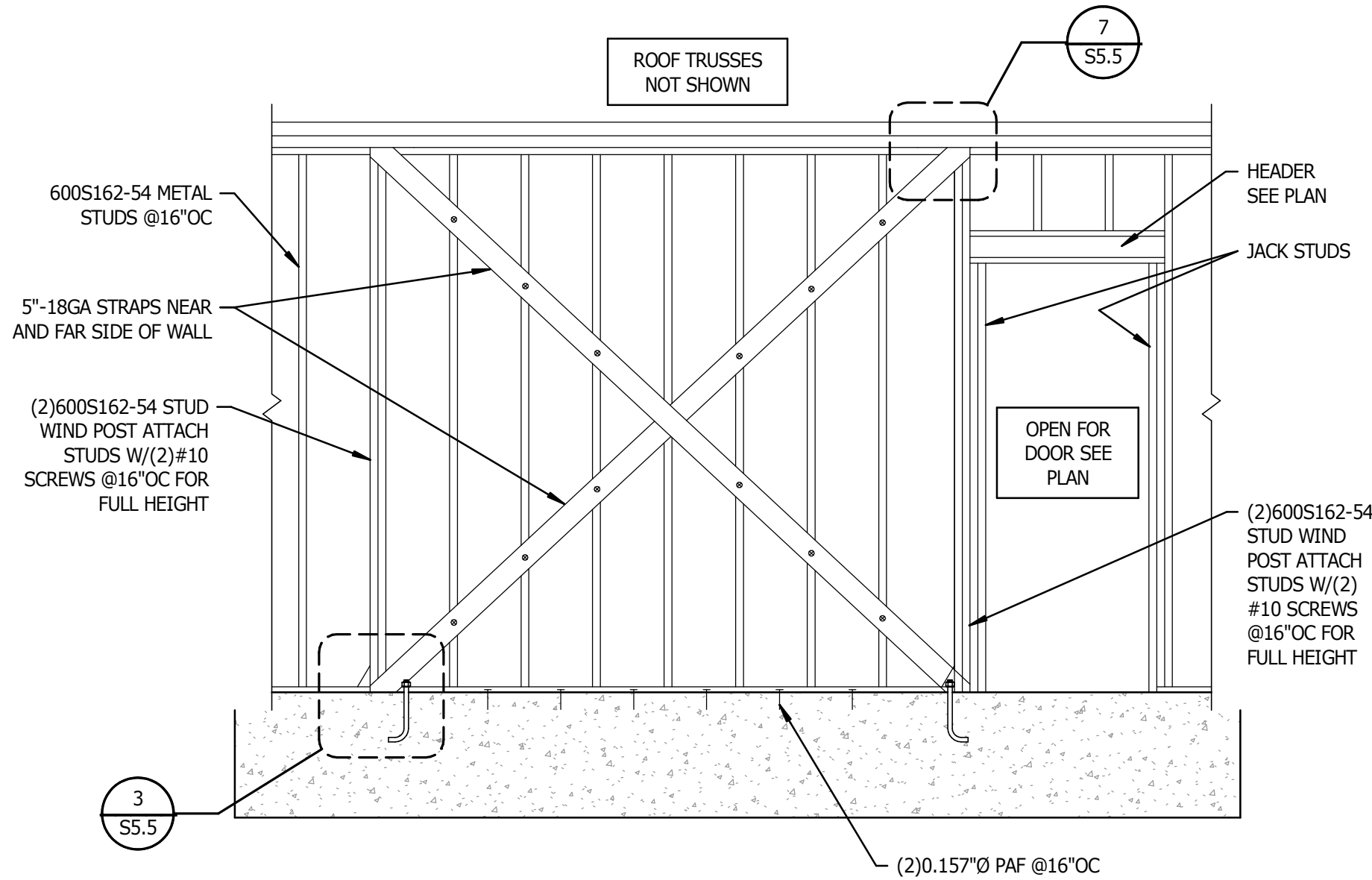
- NOTES:
1. SEE 2/S5.5 AND 8/S5.5 FOR ELEVATIONS.
 2. SEE PLANS FOR BRACED WALL LOCATIONS.
 3. ALL COMPONENTS OF BRACED WALL SYSTEM SHALL HAVE A MINIMUM YIELD STRESS OF fy = 50 KSI.
 4. STRAPS ARE REQUIRED ON BOTH SIDES OF WALL. SHEATHING IS REQUIRED ON 1-SIDE OF WALL.
 5. ALL NOTES THIS SHEET SPECIFY STIFFWALL SW-S BY THE STEEL NETWORK. ALTERNATE SUPPLIERS MUST BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL. ALTERNATE SYSTEM MUST MEET THE LOAD REQUIREMENTS GIVEN IN SCHEDULE.

1
S5.5
NTS
BRACED WALL SCHEDULE

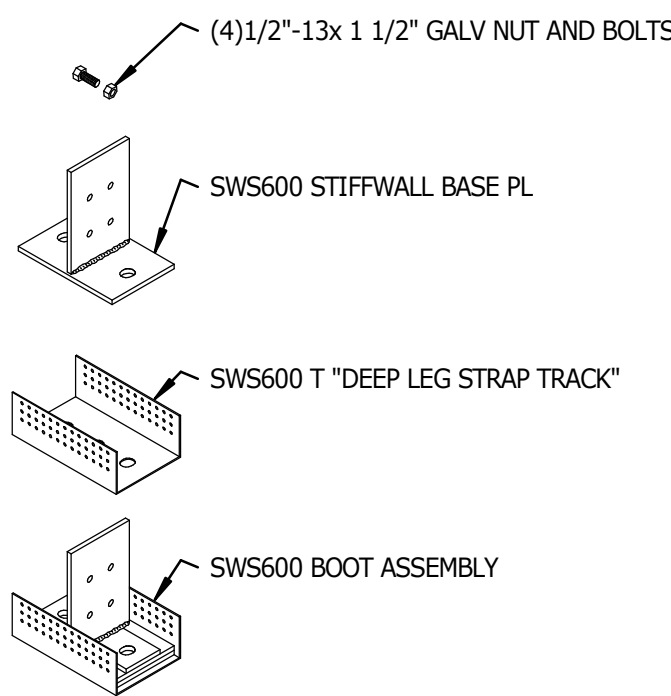


- NOTES:
1. END POST, SEE BRACED WALL SCHEDULE.
 2. HOLDDOWN ANCHORS ARE SPECIFIED IN THE BRACED WALL SCHEDULE FOR EACH BRACED WALL TYPE.
 3. BOTTOM TRACK TO FOUNDATION CONNECTORS: PROVIDE ANCHORS AS SPECIFIED IN THE BRACED WALL BASE CONNECTION DETAIL.
 4. BRACED WALL ELEVATION (SHOWN ABOVE) VARIES. REFER TO PLANS AND ARCHITECTURAL DRAWINGS.
 5. BRACED WALLS ARE DENOTED "BW#" ON PLANS.
 6. SEE BRACED WALL SCHEDULE FOR SHEATHING. SHEATHING SHALL BE LAID WITH LONG DIMENSION PERPENDICULAR TO STUD WALL.
 7. PANEL SHEATHING JOINTS IN BRACED WALLS SHALL OCCUR OVER STUDS OR BLOCKING. ADJACENT PANEL SHEATHING JOINTS SHALL OCCUR OVER AND BE SCREWED TO COMMON FRAMING MEMBER.

8
S5.5
3/4" = 1'-0"
TYPICAL SHEAR WALL ELEVATION

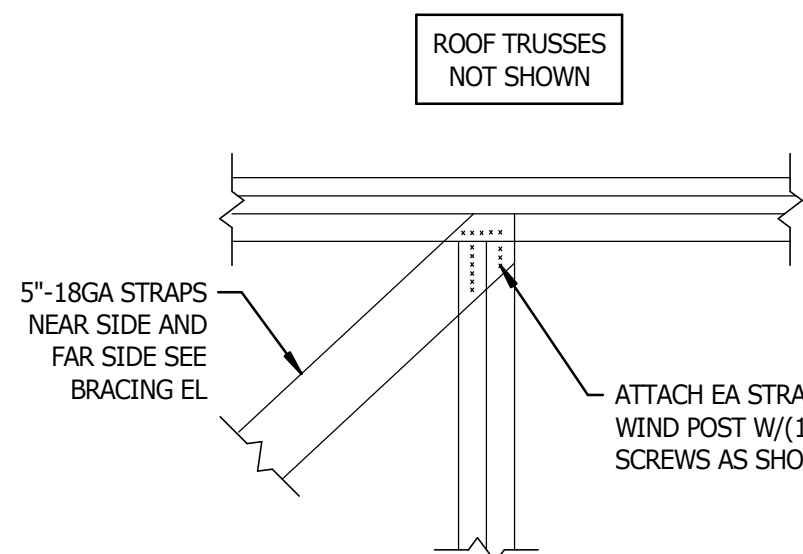


2
S5.5
NTS
TYPICAL METAL STUD STRAP WALL

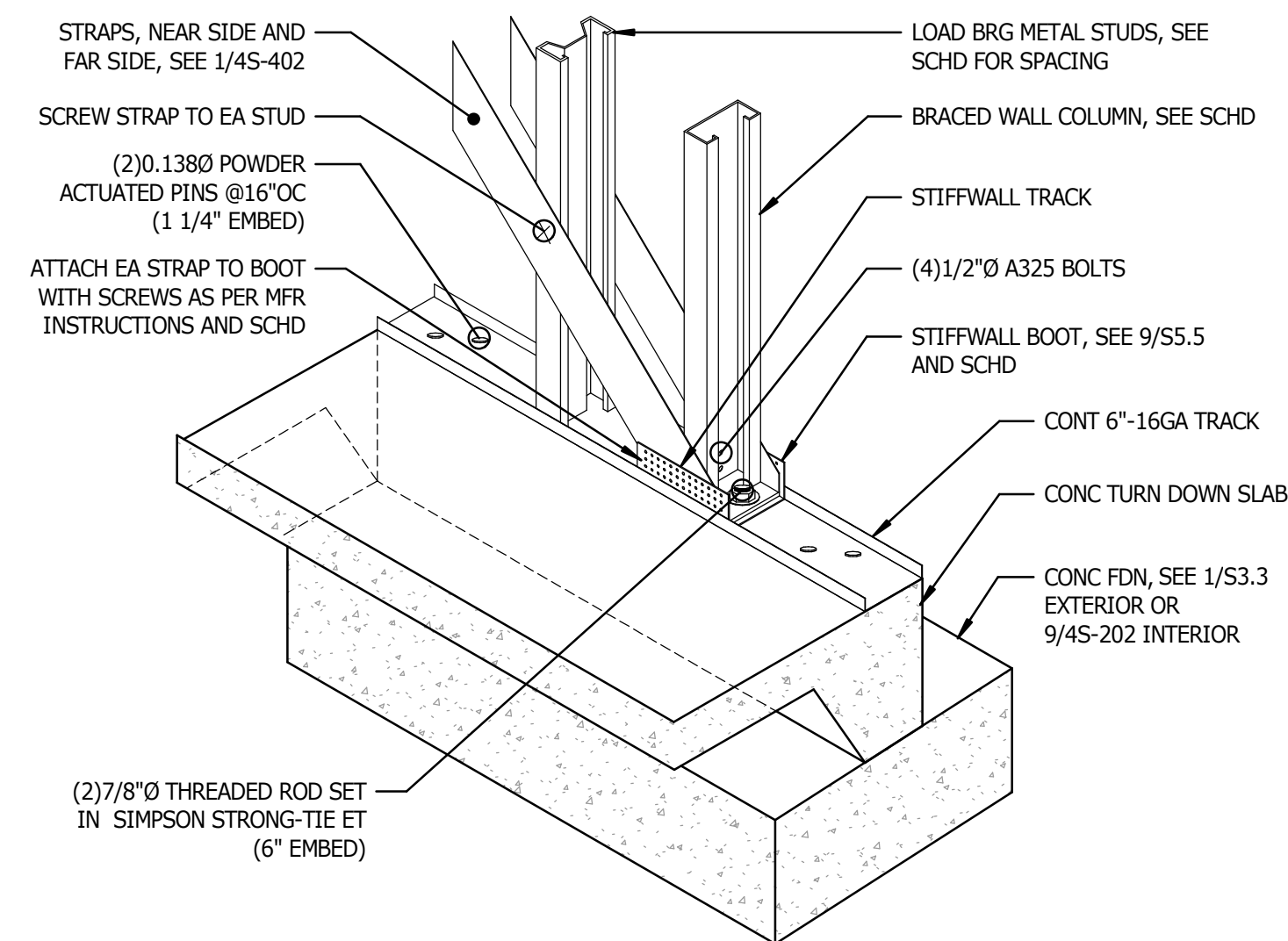


- NOTES:
1. STIFFWALL BRACED WALL SYSTEM DESCRIBED AS PROVIDED BY "THE STEEL NETWORK".
 2. REFER TO MANUFACTURER'S LITERATURE FOR INSTALLATION GUIDELINES AND REQUIREMENTS.

9
S5.5
3/4" = 1'-0"
STIFFWALL BASE ASSEMBLY DETAIL



6
S5.5
NTS
TOP OF METAL STRAP CONNECTION



- NOTES:
1. STIFFWALL BRACED WALL SYSTEM DESCRIBED AS PROVIDED BY "THE STEEL NETWORK".
 2. REFER TO MANUFACTURER'S LITERATURE FOR INSTALLATION GUIDELINES AND REQUIREMENTS.

3
S5.5
NTS
BRACED WALL BASE CONNECTION

NEW CONSTRUCTION FOR

OAKLEY
COLLIER
ARCHITECTS
OCA

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VILLAGE OF PINEHURST
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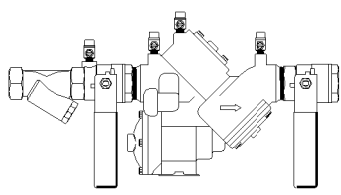
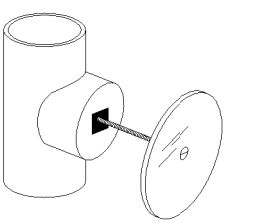
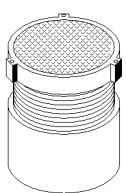
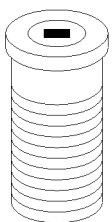
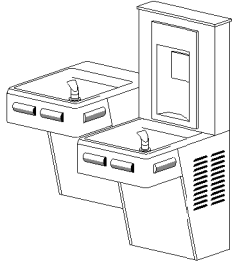
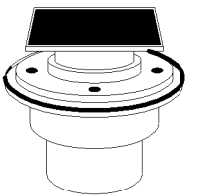
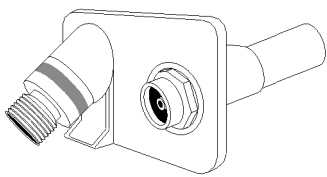
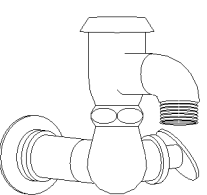
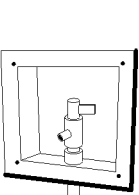
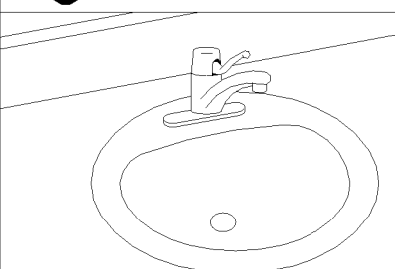
PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions
Description Date

Date
Issue
Date
22038
Drawn By
VNA
Checked By
MBC
Project No.
Sheet No.
S5.5
Sheet Title
METAL STUD DETAILS

PLUMBING FIXTURE SCHEDULE										
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
	BP-1	WATTS	LF909Q1M1-S	WILKINS	975XL2-S	FEBCO	LF860	2"	-	-
	LEAD FREE, REDUCED PRESSURE ZONE WITH BALL VALVES AND STRAINER. MOUNT 24" ABOVE FINISHED FLOOR.									
	CO-1	ZURN	Z-1446	WATTS	CO-460-RD	JR SMITH	4530	-	-	SEE PLUMB DRAWNGS
	CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL, SECURED WALL ACCESS COVER.									
	CO-2	ZURN	CO2449	MIFAB		JR SMITH		-	-	SEE PLUMB DRAWINGS
	PVC CLEANOUT WITH AND ADJUSTABLE PVC RISER, NICKEL BRONZE FRAME AND COVER, AND AN ABS TAPER THREADED PLUG. CLEANOUT TO BE GAS AND WATERTIGHT.									
	CO-3	ZURN	Z-1449-BP	WATTS	CO-380-34B	JR SMITH	4283	-	-	SEE PLUMB DRAWNGS
	CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT BRONZE PLUG, MOUNT IN CONCRETE.									
	EW-1	OASIS	P8SBFSL	ELKAY	LZSTL8WS	HALSEY TAYLOR	HTH8-HACDBLPV-WF	1/2"	-	2"
	PROVIDE WITH FRONT AND SIDE CONTROLS, SHUT-OFF VALVE, CARRIER, AND TRAP. PROVIDE STAINLESS STEEL FINISH. PROVIDE WITH BOTTLE FILLER.									
	FD-1	ZURN	ZN415S	WATTS	FD-100-M	MIFAB	F11000-1	1/2"	-	3"
	FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED 6" x 6" NICKEL BRONZE SQUARE HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
	H-1	WOODFORD	65	WATTS	HY-420	MIFAB	MHY-15	3/4"	-	-
	ANTIFREEZE HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED GRADE.									
	H-2	CHICAGO	952	WOODFORD	21	ZURN	Z875L7	3/4"	-	-
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED FLOOR.									
	IM-1	OATEY CO.	38574	GUY GRAY	AB9700	SIOUX CHIEF	696-G1000MF	1/2"	-	-
	PLASTIC ICE MAKER BOX WITH 1/4 TURN BRASS BALL VALVE - COPPER SWEAT AND SUPPLY TUBE TO REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.									
	L-1	KOHLER	K-2196-4-0	SLOAN	SS-3002	AMERICAN STANDARD	0476.028			
	FAUCET	DELTA	523LF-HGMHDF	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R1912AC	KOHLER	K-7605-P-CP	1/2"	1/2"	
	SELF-RIMMING LAVATORY SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW, AND INCLUDE SEALANT. FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW, CAST BRASS SUP NUT, AND FLANGE. PROVIDE WITH OFFSET STRAINER, McGUIRE PROWRAP INSULATOR, AND APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.									

PLUMBING SCHEDULE NOTES AND LEGEND:

1.

THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS APPROVAL.
2.

SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
3.

PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
4.

REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.
- 

ADA COMPLIANT
- 

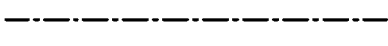
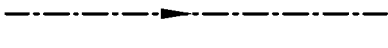
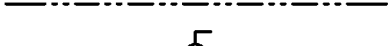
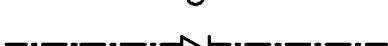
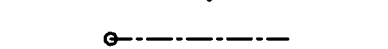
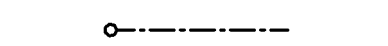
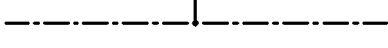
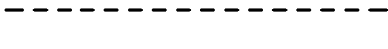
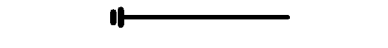
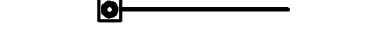
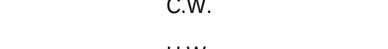
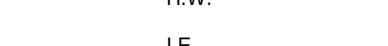
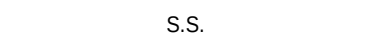
ELECTRICAL POWER
- 

GAS FIRED

PLUMBING GENERAL NOTES

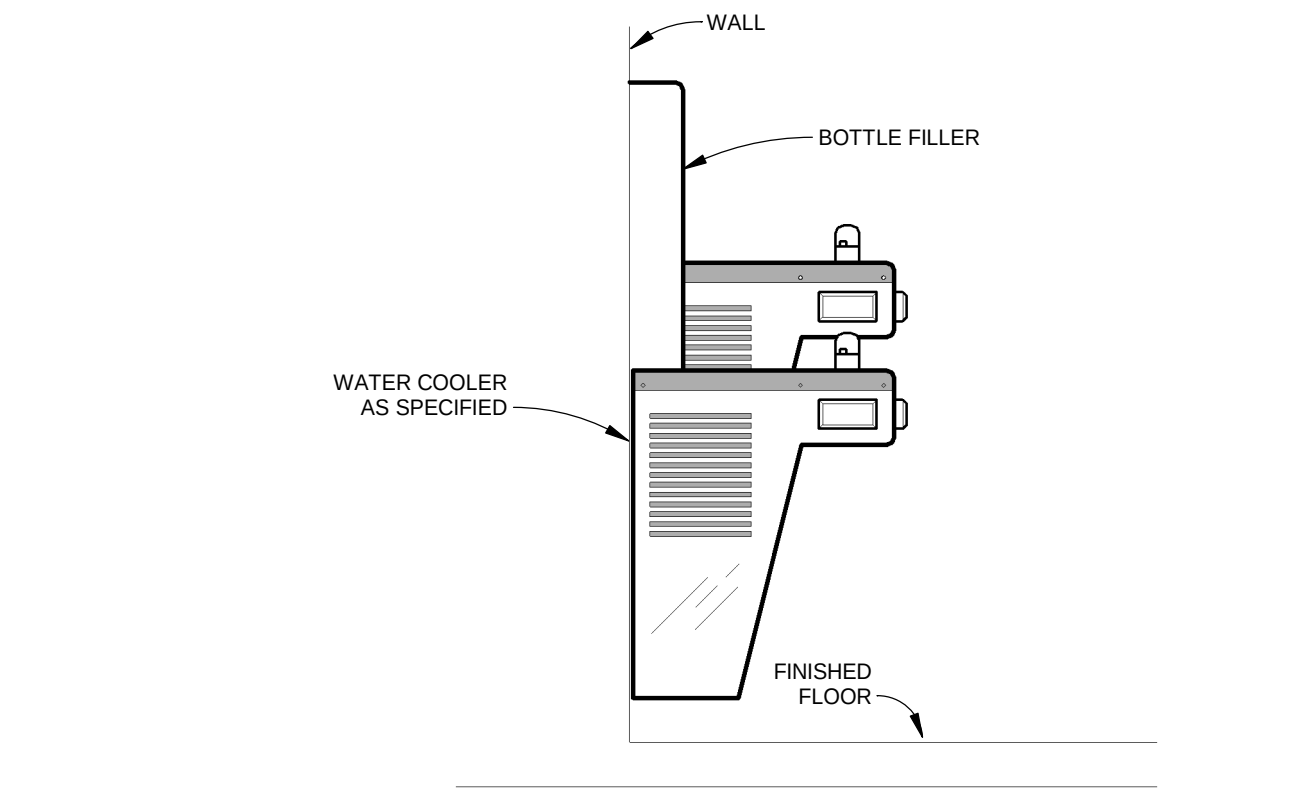
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
7. ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
8. WATER PIPING 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 ONE HOUR AT 150 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
9. PROVIDE COPPER STUB - OUTS AT ALL FIXTURE SUPPLIES
10. WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
11. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE 1" FIBERGLASS. EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
12. STENCIL ALL PIPING WITH IDENTIFICATION AND FLOW ARROW @ 10'-0" ON CENTER AT BOTH SIDES OF WALL PENETRATIONS AND AT EACH TAKE - OFF.
13. DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
14. WATER SHUT - OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
15. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
16. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
17. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
18. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT .
19. SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
20. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
21. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
22. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC...) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
23. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
24. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL PLUMBING CONNECTIONS TO THE KITCHEN EQUIPMENT, PROVIDING ALL PIPING, VALVES, ETC... FOR A COMPLETE JOB.
25. ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 15'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
26. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.
27. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MANHOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
28. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

PLUMBING SYMBOL LEGEND

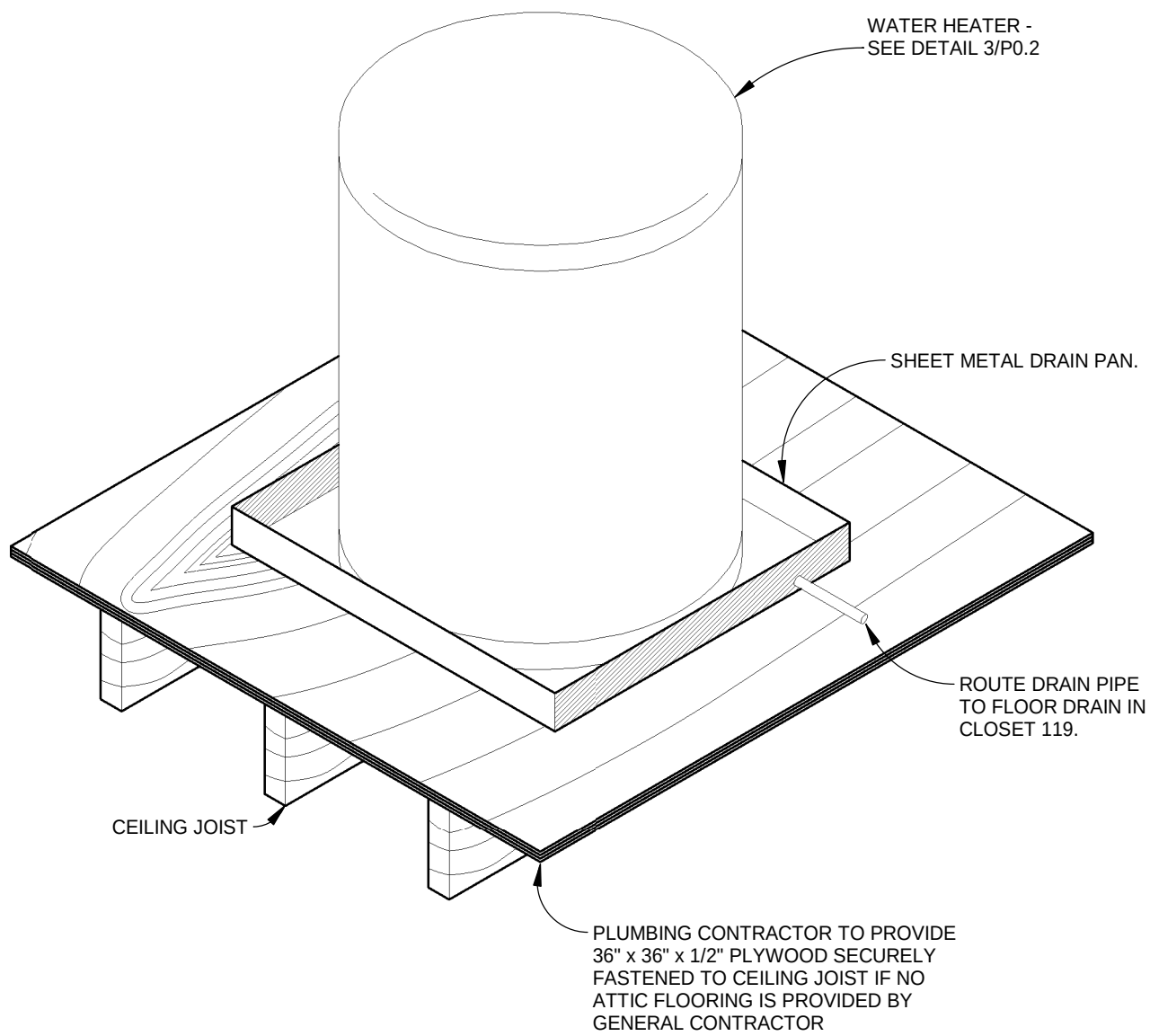
SYMBOL	DESCRIPTION
	COLD WATER PIPING
	WATER PIPING DIRECTION OF FLOW
	HOT WATER PIPING
	BALL VALVE
	CHECK VALVE
	WATER PIPING TURNED DOWN
	WATER PIPING TURNED UP
	PIPING SIDE CONNECTION
	SANITARY SEWER / WASTE PIPING
	VENT PIPING
	VENT PIPE UP
	HOSE BIBB
	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
	PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR
	FLOOR CLEANOUT
	WALL CLEANOUT
	FLOOR DRAIN
	COLD WATER PIPING
	HOT WATER PIPING
	INVERT ELEVATION
	SHOCK ABSORBER
	VENT THRU ROOF
	SANITARY SEWER PIPING
	C.W.
	H.W.
	I.E.
	S.A.
	V.T.R.
	S.S.

PLUMBING LOAD SUMMARY

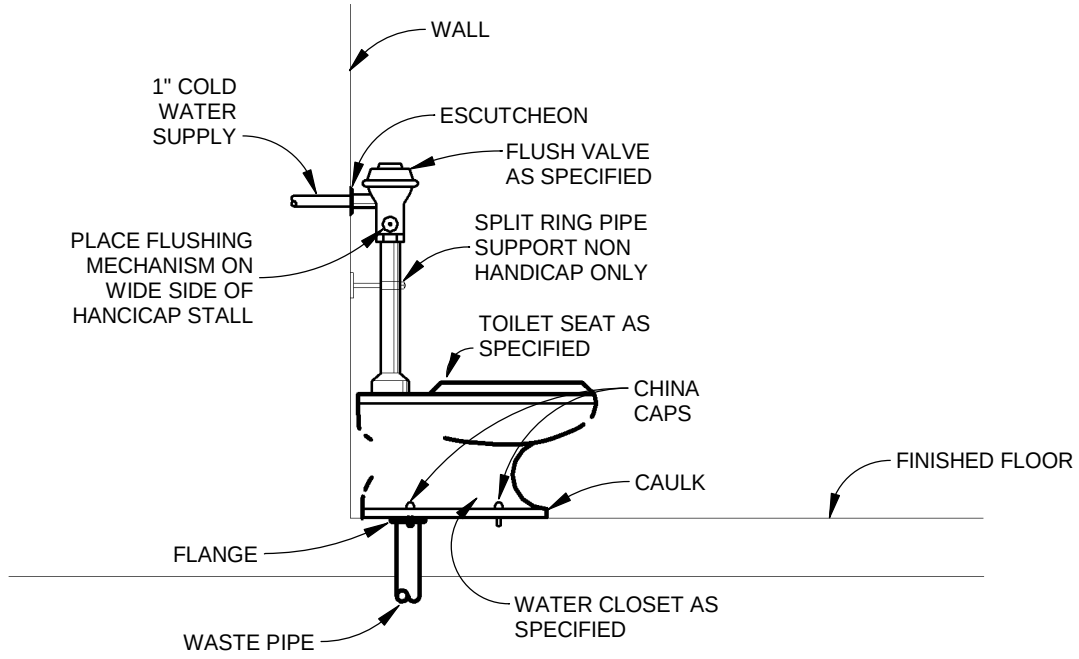
SANITARY SEWER DEMAND FU	WATER DEMAND FU	WATER DEMAND GPM
50.5	94.3	65.9



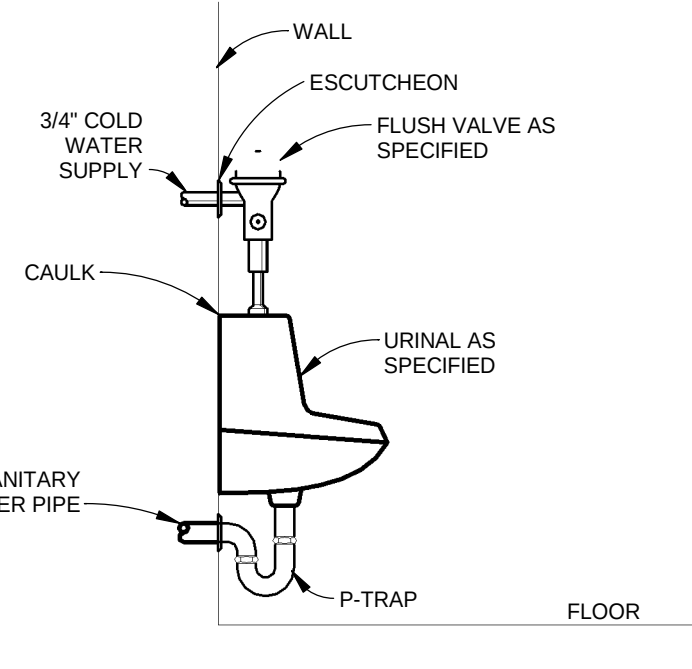
4 WATER COOLER DETAIL
P0.2 NOT TO SCALE



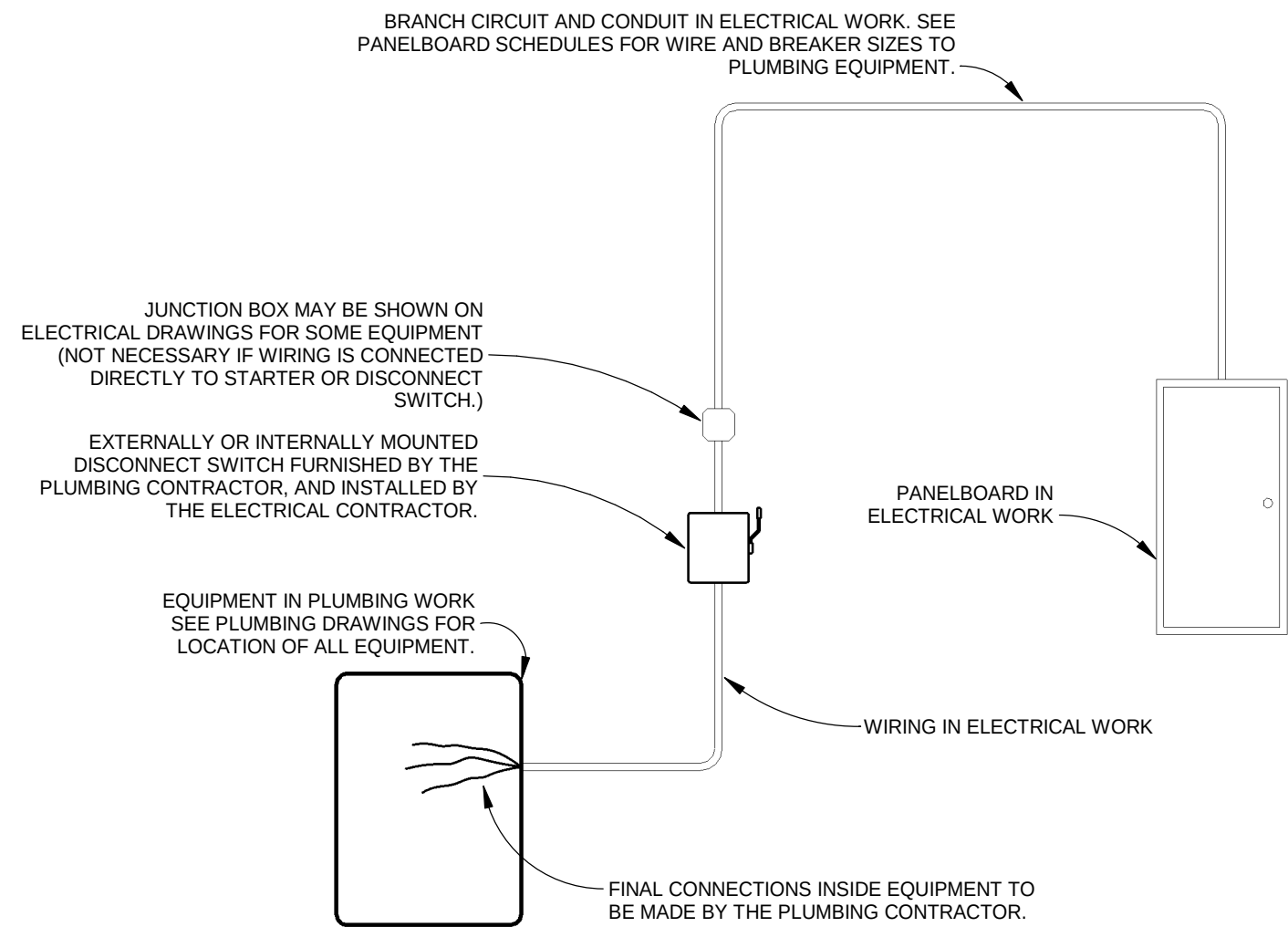
1 WATER HEATER MOUNTING DETAIL
P0.2 NOT TO SCALE



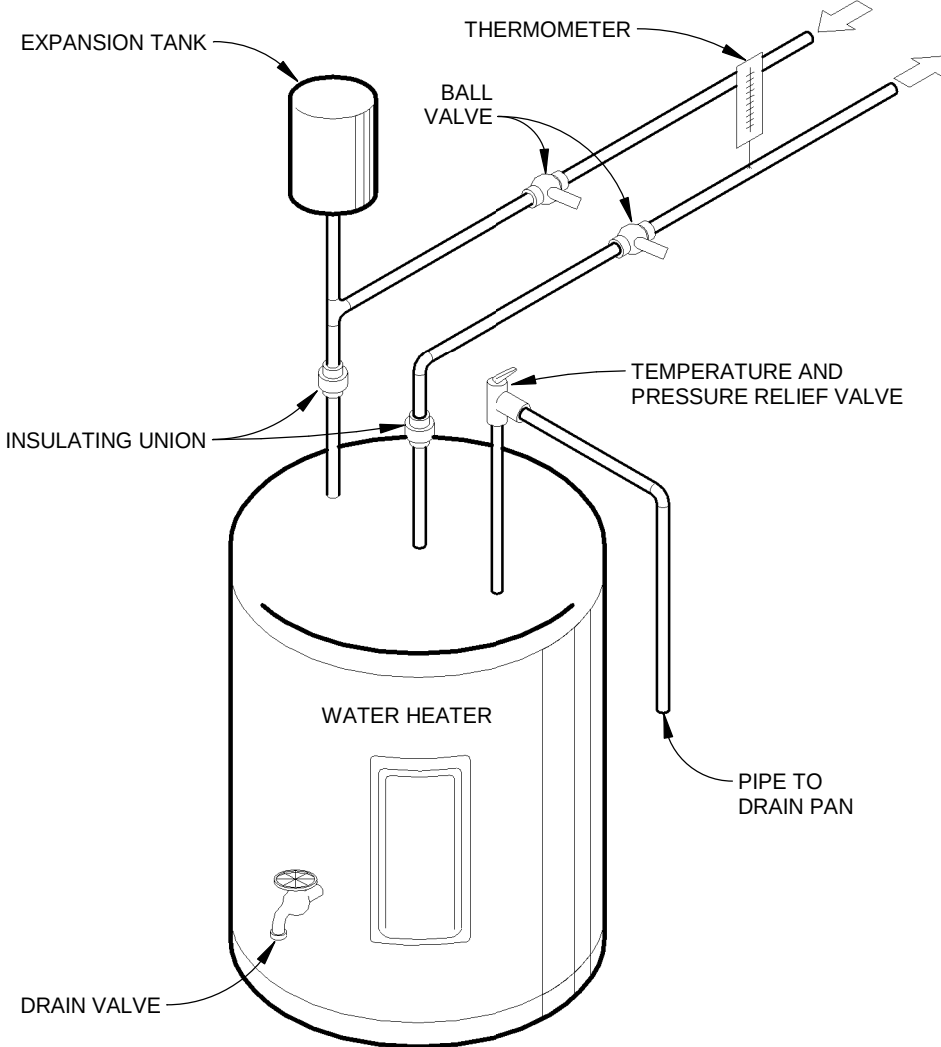
5 WATER CLOSET DETAIL
P0.2 NOT TO SCALE



2 URINAL DETAIL
P0.2 NOT TO SCALE



6 TYPICAL WIRING DETAIL
P0.2 NOT TO SCALE



3 TANK WATER HEATER DETAIL
P0.2 NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
	L-2	KOHLER	K-2861-0	AMERICAN STANDARD	0355.012	ZURN	Z5834			
	FAUCET	DELTA	523LF-HGMHDF	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R1912AC	KOHLER	K-7605-P-CP	1/2"	1/2"	
WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH. HAVE 4" CENTERS, AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN, TRUEBRO LAV SHIELD, AND WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.										
	SA-1	JOSAM	75000	ZURN	Z1700	WADE	4480			
	SHOCK ABSORBERS SHALL HAVE A STAINLESS STEEL CASING, FLEXIBLE MECHANICAL BELLOWS, PRESSURIZED INERT GAS CHAMBER AND CERTIFICATION STAMP AS CONFORMING TO STANDARD PDI WH-201 OF THE PLUMBING AND DRAINAGE INSTITUTE.									
	S-1	JUST	DL-ADA-1933-A-GR	ELKAY	LRAD-3319					
	FAUCET	DELTA	711-WFHDF	CHICAGO FAUCETS	2302-CP	T&S BRASS	B-2741	1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K8999	DEARBORN BRASS	702-1			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN	L7			
SINK IS TO BE 18 GAUGE STAINLESS STEEL, SELF-RIMMING. DECK MOUNTED GOOSENECK FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIDGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH McGUIRE PROWRAP INSULATOR.										
	U-1	KOHLER	K-5016-ET	SLOAN	SU7009	AMERICAN STANDARD	6541.132			2"
	VALVE	SLOAN	186	DELANY	F451-1	ZURN	Z6003-AV	3/4"	-	
	CARRIER	ZURN	Z-1221	JR SMITH	636	WATTS	CA-311			
URNIAL SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 3/4" TOP SPUD. EXPOSED CHROME PLATED FLUSH VALVE WITH 3/4" CHROME PLATED SPUD COUPLING AND FLANGE.										
	WC-1	KOHLER	K-96053-0	SLOAN	ST-2009	AMERICAN STANDARD	2234.015			4"
	SEAT	BEMIS	1655SSC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	111	DELANY	F402-1	ZURN	Z6000-WS1	1"	-	
TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE.										
	WC-2	KOHLER	K-96057-0	SLOAN	ST-2029	AMERICAN STANDARD	Z305.100			4"
	SEAT	BEMIS	1655SSC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	111	DELANY	F402-1	ZURN	Z6000-WS1	1"	-	
TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE, THE FLUSH VALVE MECHANISM SHALL BE PLACED ON THE WIDE SIDE OF THE STALL.										
	WH-1	STATE INDUSTRIES	PCE 20 10MSA	A.O. SMITH		LOCHINVAR		3/4"	3/4"	
	ELECTRIC WATER HEATER SHALL HAVE A 20 GALLON STORAGE CAPACITY, AN ELECTRIC INPUT OF 1.5 KW AT 120 VOLT, SINGLE PHASE AND A RECOVERY OF 6 GPH AT A 100" RISE. PROVIDE WITH THERMOSTATIC MIXING VALVE SET AT 110°F. EXPANSION TANK AND DISCONNECT, WIRING BY LICENSED ELECTRICAL CONTRACTOR. WATER HEATER TO BE PROVIDED WITH HEAT TRAPS AND MEET THE ENERGY EFFICIENCY REQUIREMENT PER 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE.									

PLUMBING SCHEDULE NOTES AND LEGEND:

- THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
- SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
- PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
- REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.

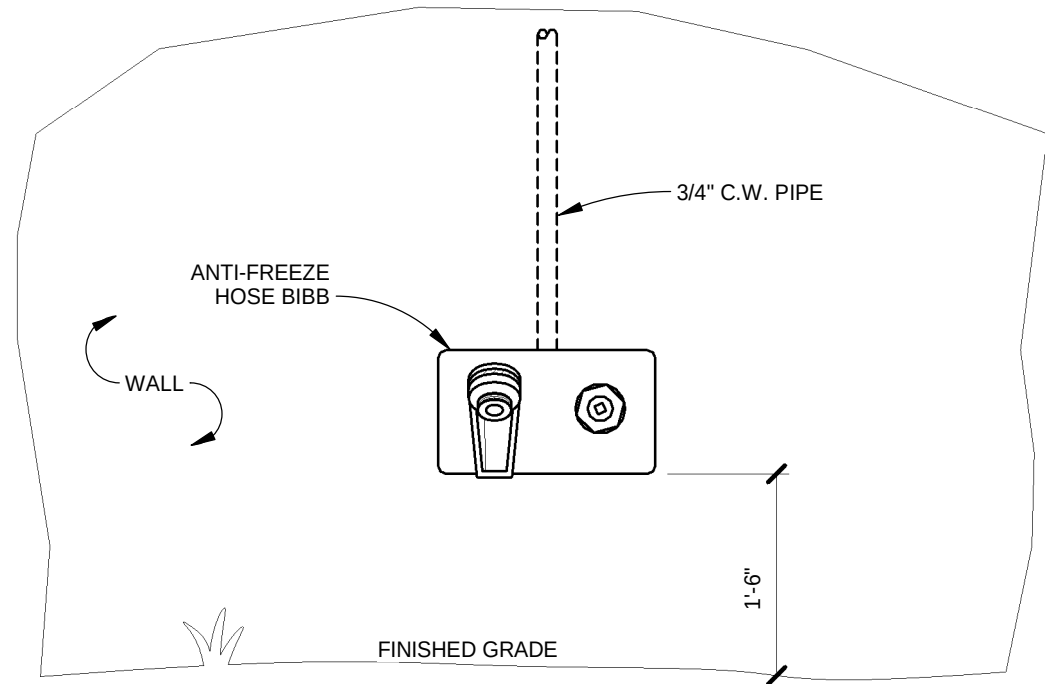
ADA COMPLIANT
ELECTRICAL POWER
GAS FIRED

GENERAL NOTE:
Prior to construction
start, Contractor shall
verify & be responsible
for all Dimensions.

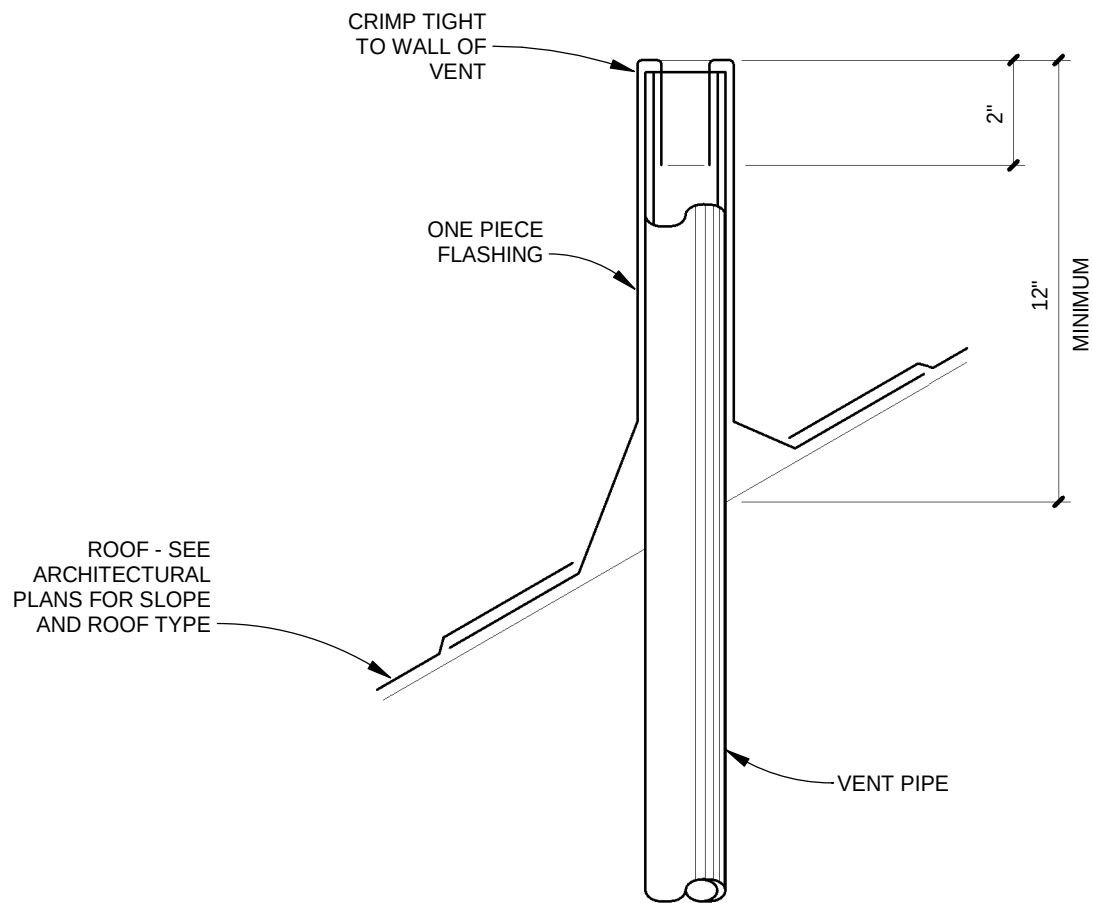
Revisions
Description Date

Date
9/27/24
Project No.
22038
Drawn By
JHH
Sheet No.
P0.2
Checked By
JHH
Sheet Title
PLUMBING FIXTURE
SCHEDULE

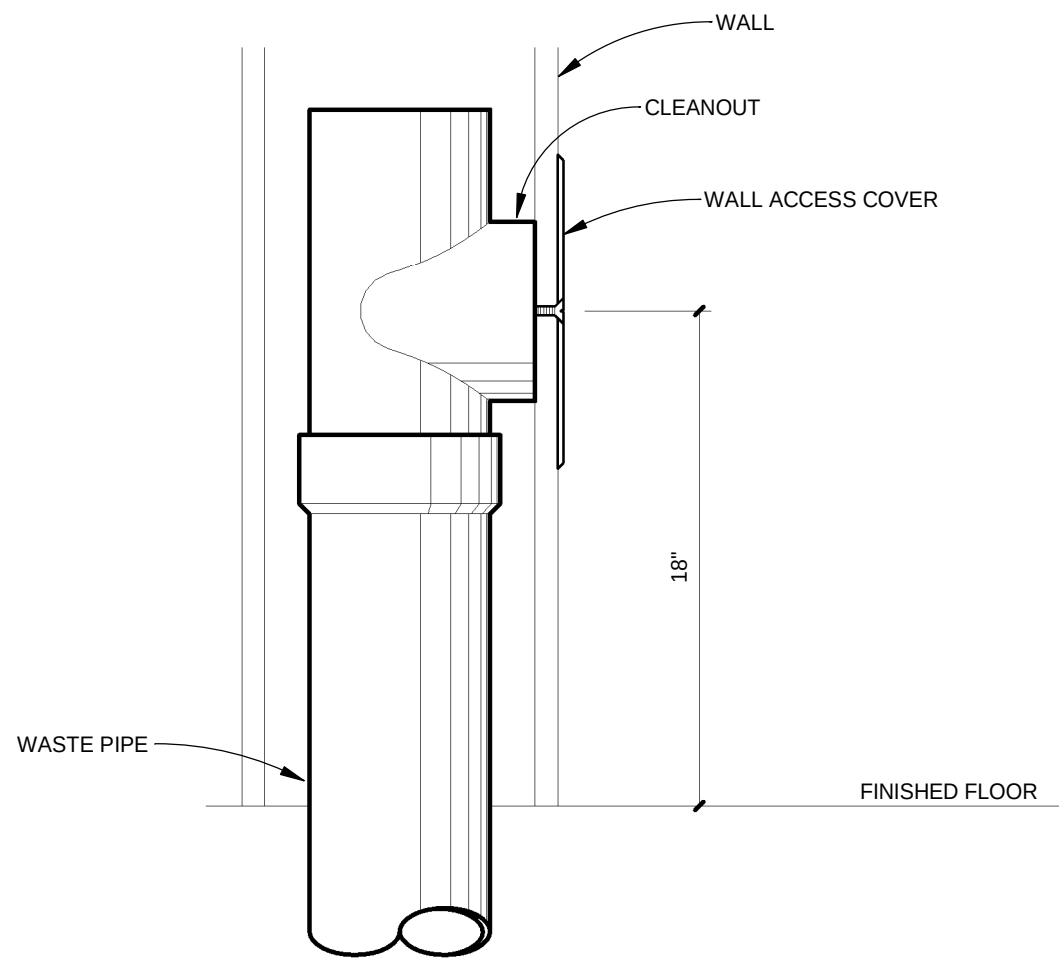
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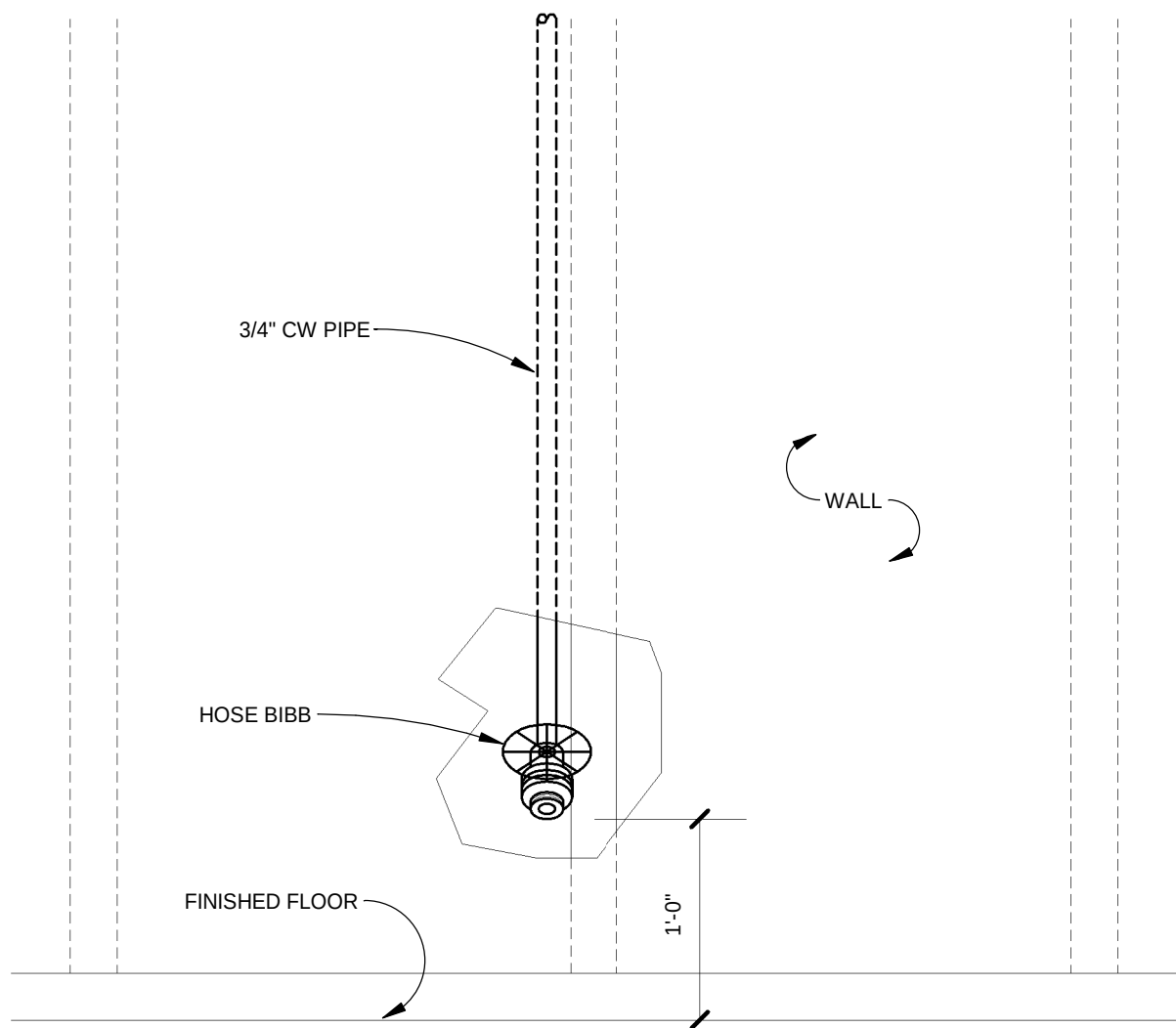
7
P0.3
EXTERIOR HOSE BIBB DETAIL
NOT TO SCALE



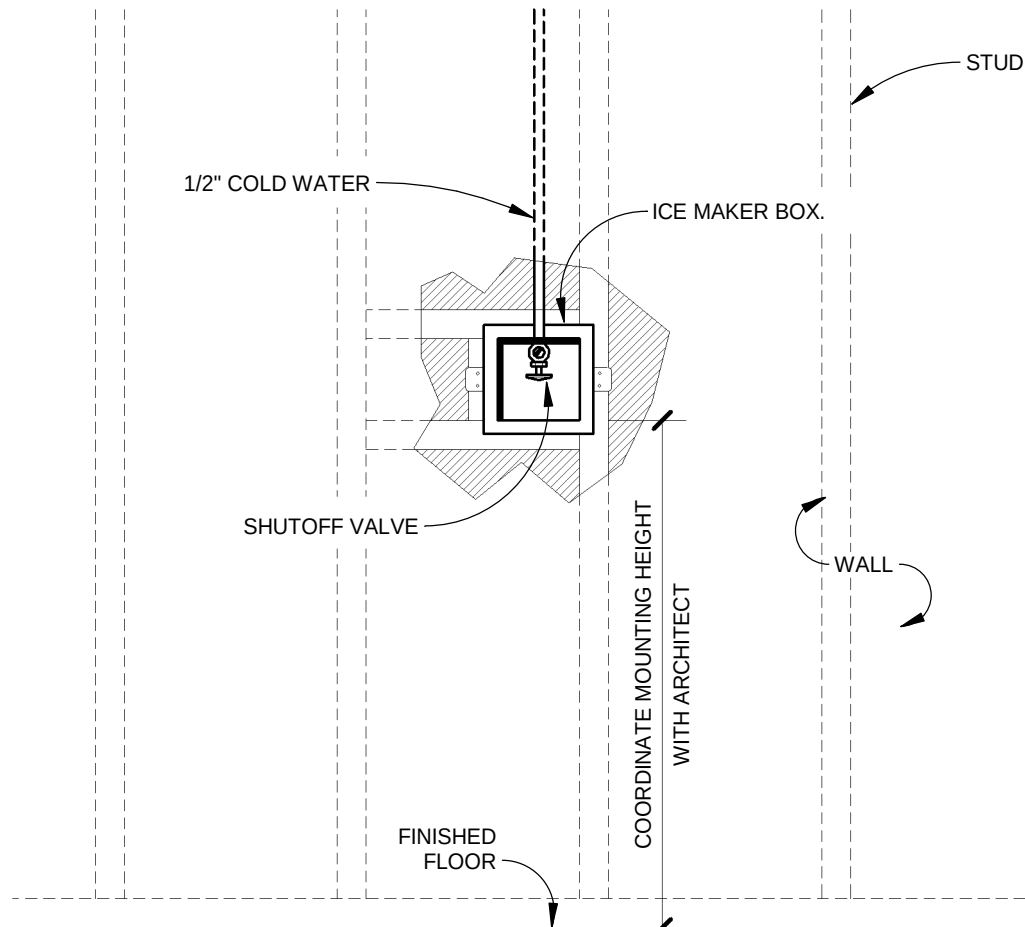
4
P0.3
VENT THROUGH ROOF DETAIL
NOT TO SCALE



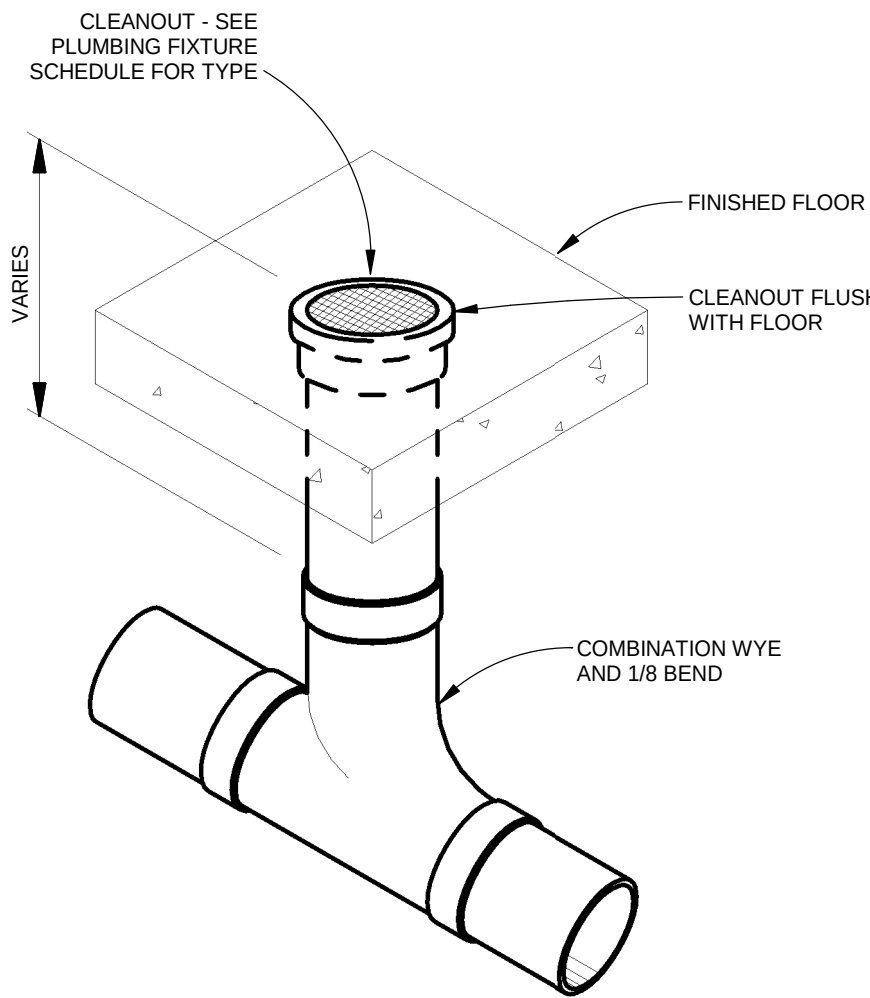
1
P0.3
WALL CLEANOUT DETAIL
NOT TO SCALE



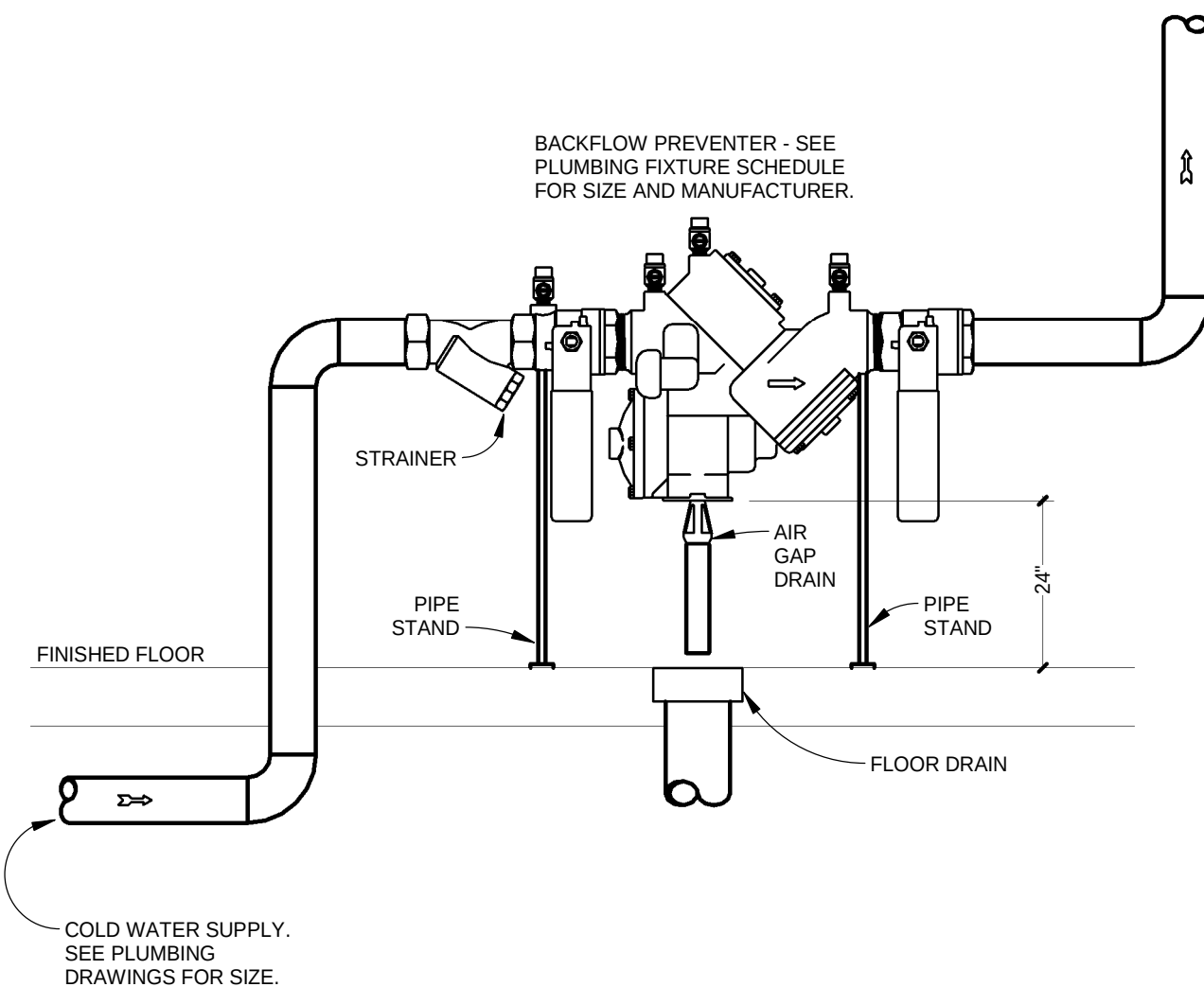
8
P0.3
INTERIOR HOSE BIBB DETAIL
NOT TO SCALE



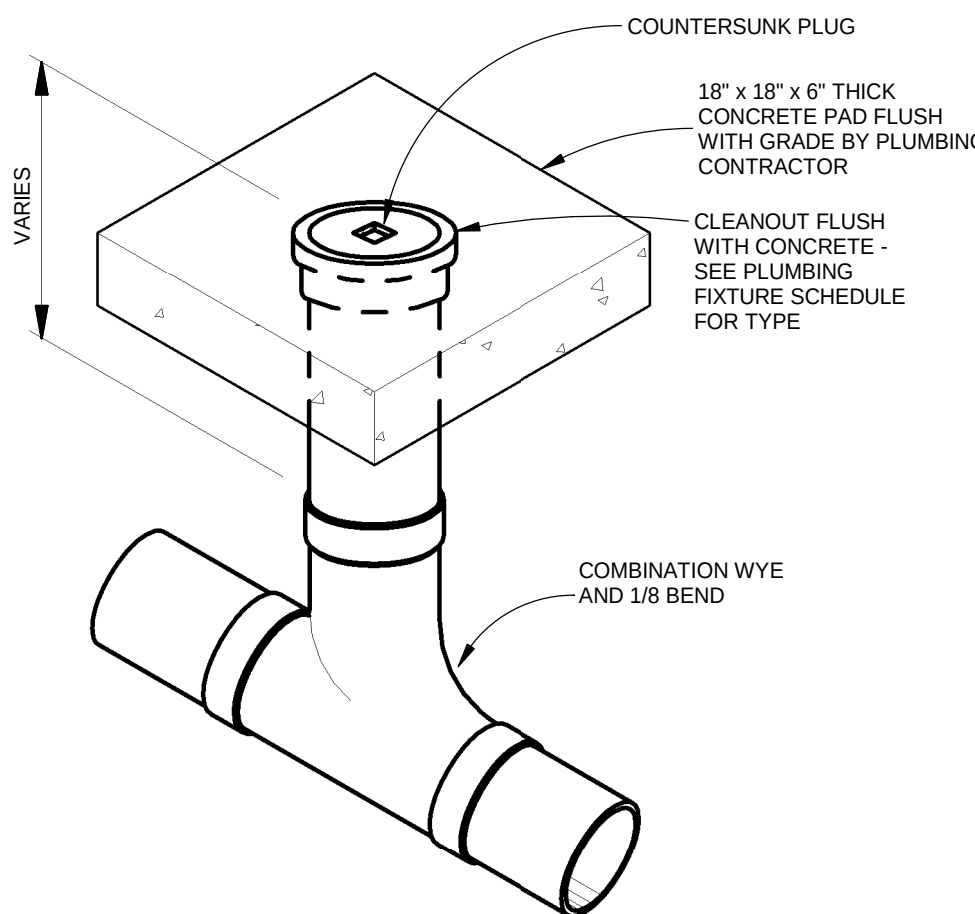
5
P0.3
ICE MAKER BOX DETAIL
NOT TO SCALE



2
P0.3
FLOOR CLEANOUT DETAIL
NOT TO SCALE



6
P0.3
BACKFLOW PREVENTER DETAIL
NOT TO SCALE



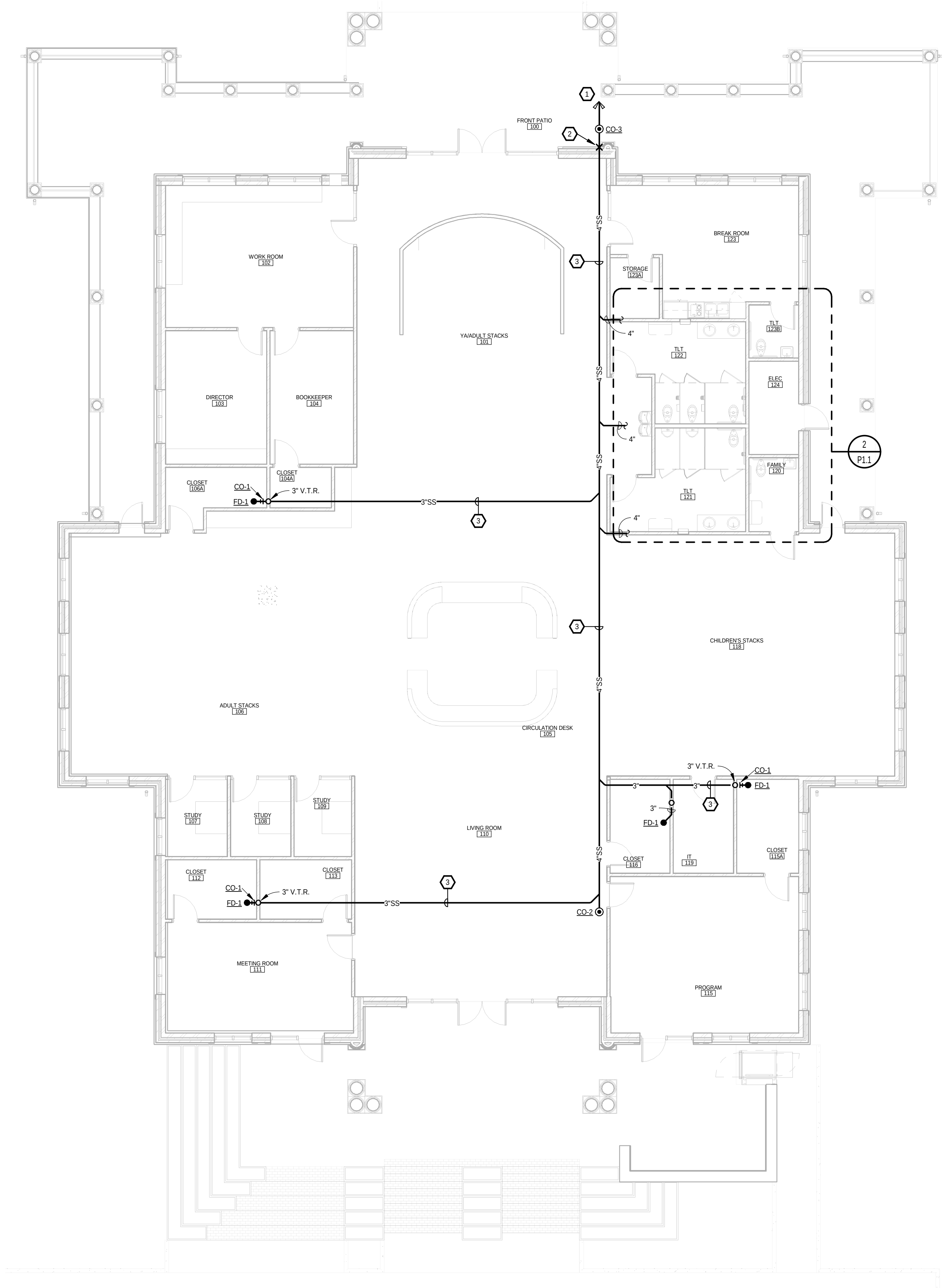
3
P0.3
EXTERIOR CLEANOUT DETAIL
NOT TO SCALE

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1
P1.1

WASTE PIPING PLAN

1/8" = 1'-0"



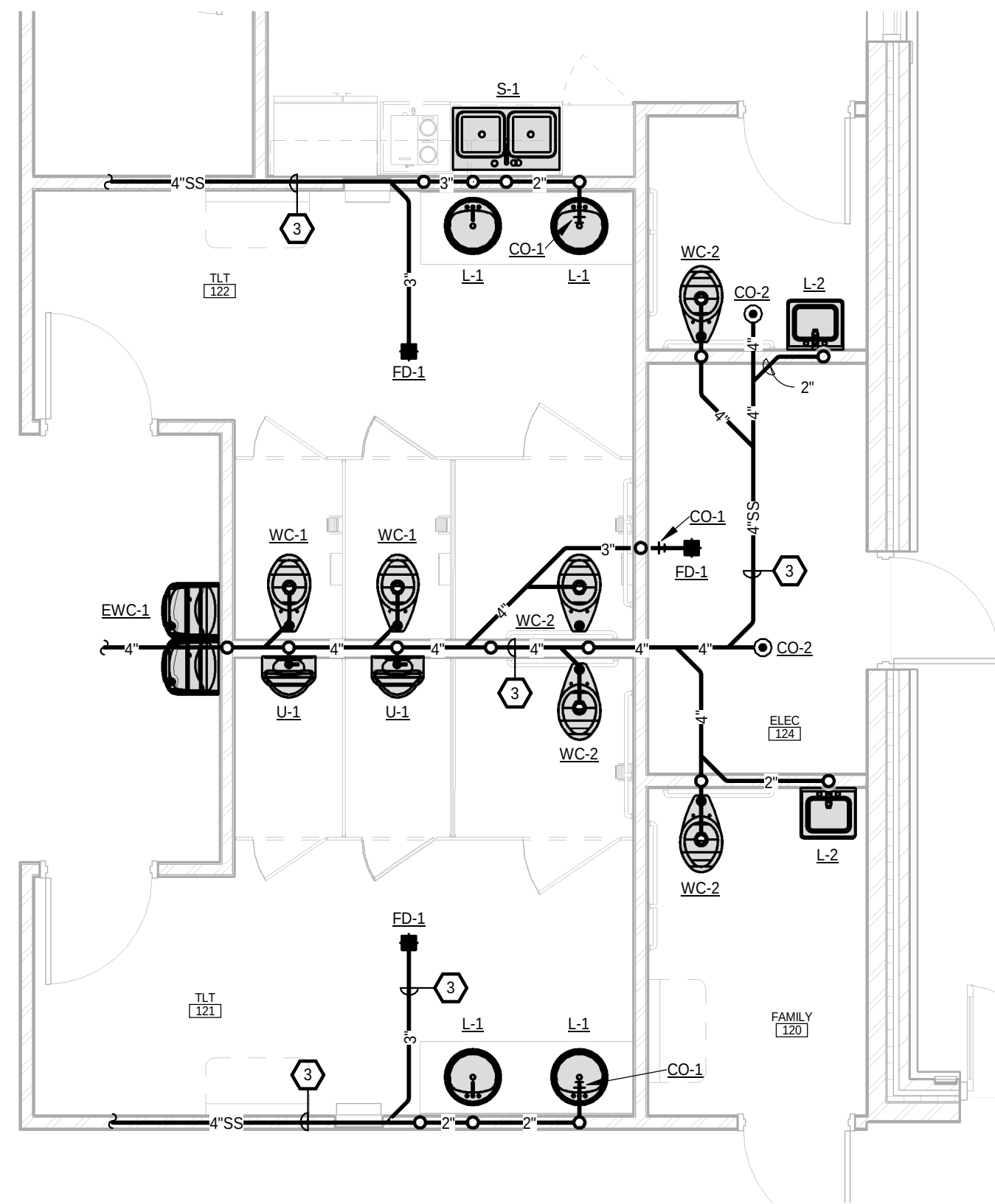
KEY NOTES P1.1

- 1 4" SANITARY SEWER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 2 INVERT ELEVATION IS TO BE 2.10' BELOW FINISHED FLOOR.
- 3 SANITARY SEWER PIPE BELOW FINISHED FLOOR.

2
P1.1

ENLARGED GANG TOILET - WASTE PIPING PLAN

1/4" = 1'-0"



NEW CONSTRUCTION FOR:

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

SD/DD
REVIEW SET

PRELIMINARY NOT FOR CONSTRUCTION

SD/DD
REVIEW SET

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
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start. Contractor shall
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for all Dimensions.

Revisions
Description Date

Date	Project No.
9/27/24	22038
Drawn By	Sheet No.
JHH	P1.1
Checked By	Sheet Title
JHH	WASTE PIPING PLAN

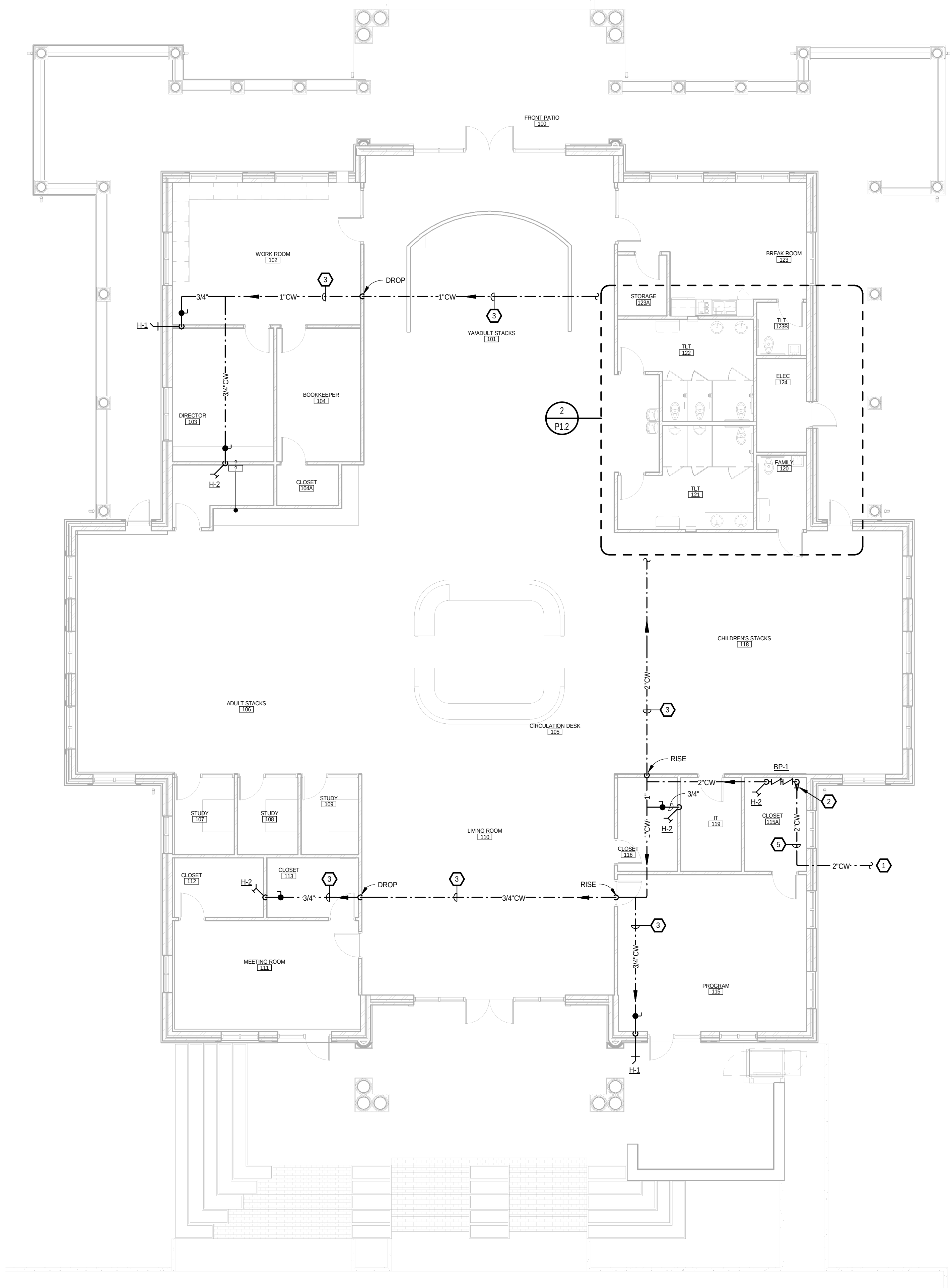
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COLLIER
ARCHITECTS
OCA

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24084

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303 W. Martin Street, Raleigh, NC 27601

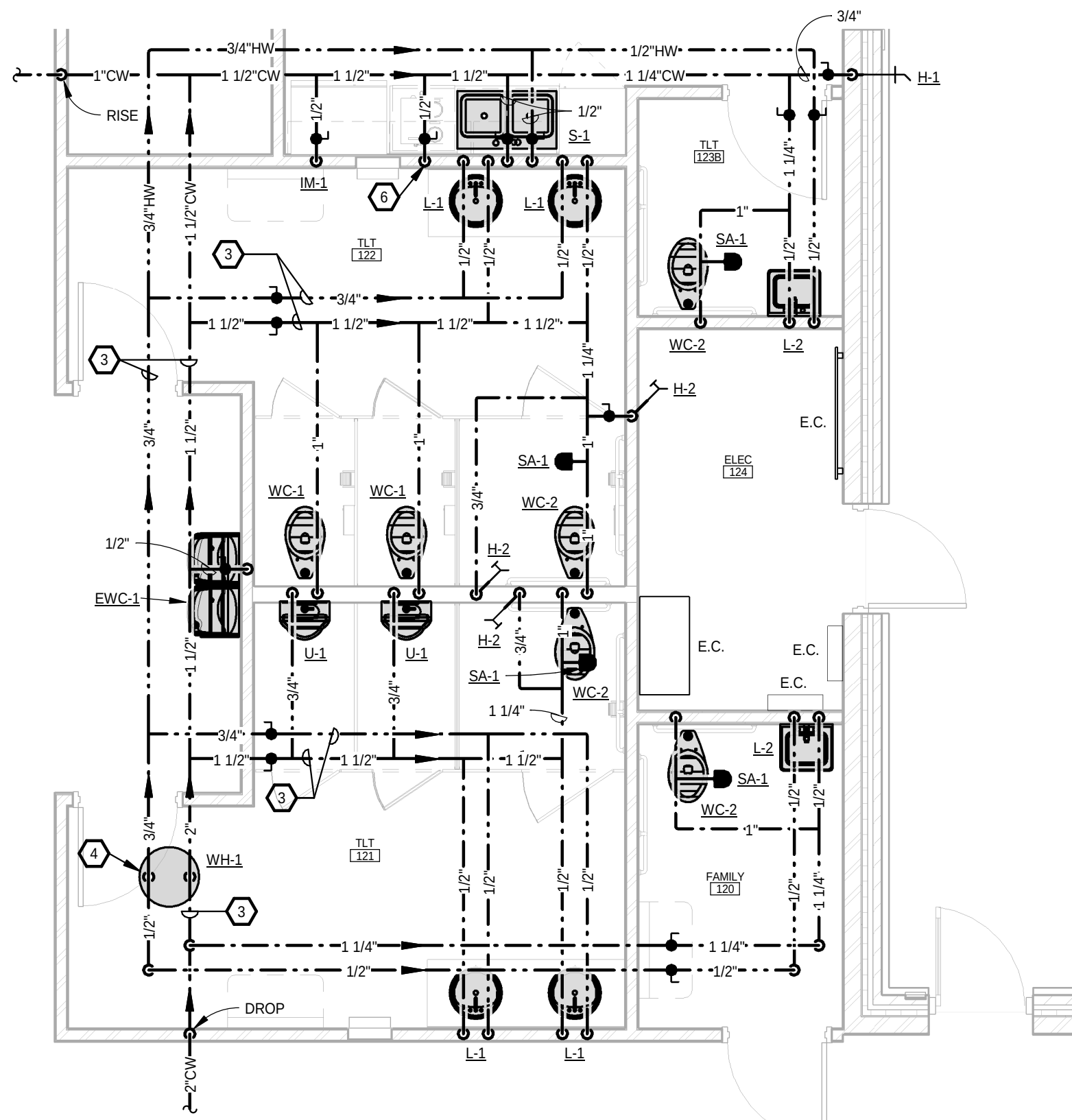
1
P1.2 WATER PIPING PLAN
1/8" = 1'-0"



KEY NOTES P1.2

- 2" COLD WATER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 2" RISE TO ABOVE FINISHED FLOOR WITH MAIN SHUT-OFF VALVE.
- WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S
- WATER HEATER LOCATED ABOVE FINISHED CEILING.
- WATER PIPING BELOW FINISHED FLOOR. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S
- PROVIDE 1/2" COLD WATER CONNECTION AND BALL VALVE FOR COFFEE MAKER.

2
P1.2 ENLARGED GANG TOILET - WATER PIPING PLAN
1/4" = 1'-0"



NEW CONSTRUCTION FOR:

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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Revisions	Description	Date
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Date	Project No.
9/27/24	22038
Drawn By	Sheet No.
JHH	P1.2
Checked By	
JHH	

Sheet Title
WATER PIPING PLAN

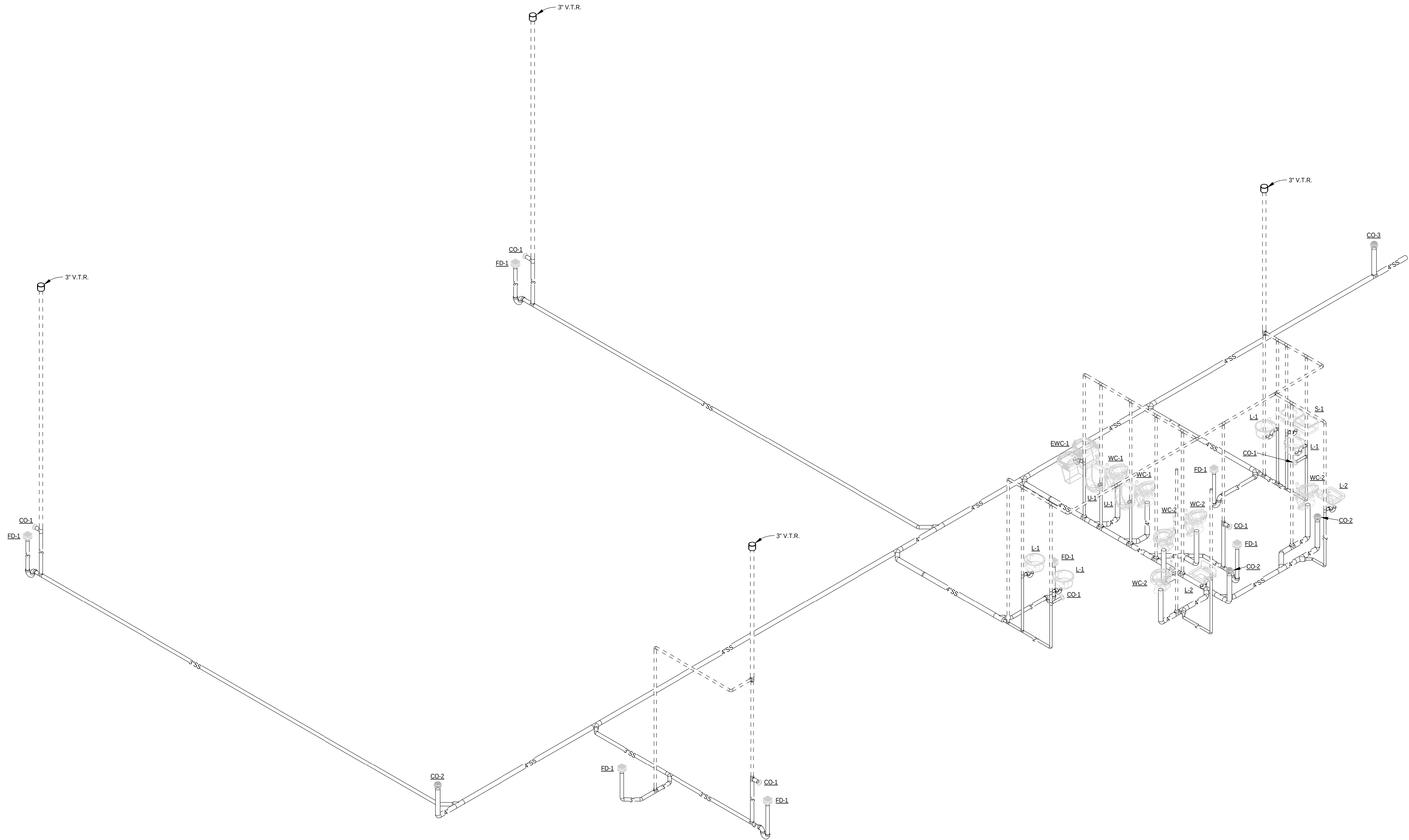
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1
P2.1

WASTE PIPING RISER

NOT TO SCALE

ALL VENT PIPING IS
TO BE 2" UNLESS
NOTED OTHERWISE



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GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC

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REVIEW SET

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SD/DD
REVIEW SET

PRELIMINARY NOT FOR CONSTRUCTION

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Revisions

#	Description	Date
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Date	Project No.
9/27/24	22038
Drawn By	Sheet No.
JHH	P2.1
Checked By	
JHH	
Sheet Title	
WASTE PIPING RISER	

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ARCHITECTS
OCA

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3221 BLUE RIDGE ROAD, SUITE 113
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24084

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PREScriptive ☒ ENERGY COST BUDGET ☐

THERMAL ZONE 4A

EXTERIOR DESIGN CONDITIONS

winter dry bulb: 22°F
summer dry bulb: 96°F
relative humidity: 46%

INTERIOR DESIGN CONDITIONS

winter dry bulb: 70°F
summer dry bulb: 74°F
relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 139.1 MBH

BUILDING COOLING LOAD: BLOCK LOAD = 284.7 MBH (23.7 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:
description of unit:
heating efficiency:
cooling efficiency:
heat output of unit:
cooling output of unit:
SEE SCHEDULES ON SHEET(S) THIS SHEET
Boiler: N/A
total boiler capacity. If oversized state reason.
Chiller: N/A
total chiller capacity. If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET(S) THIS SHEET

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

motor horsepower:
number of phases:
minimum efficiency:
motor type:
of poles:
SEE SCHEDULES ON SHEET(S) THIS SHEET

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code,

SIGNED: _____

NAME: Patrick J. McCabe, PE

TITLE: Professional Engineer

DEHUMIDIFIER SCHEDULE										
MARK	MANUFACTURER	MODEL	CFM	S.P.	FLA	POWER	PHASE	MOCP	NOTES	
DH-2	ULTRA-AIRE	98H	300	0.2"	6 A	120 V	1	15 A	1-3	
DH-5	ULTRA-AIRE	98H	300	0.2"	6 A	120 V	1	15 A	1-3	
DH-7	ULTRA-AIRE	98H	300	0.2"	6 A	120 V	1	15 A	1-3	

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH
2. CONTROL VIA WALL MOUNTED THERMOSTAT.
3. PROVIDE WITH CONDENSATE PUMP AND ROUTE TO EXTERIOR.

AIR HANDLING UNIT SCHEDULE										HEAT PUMP SCHEDULE											
MARK	MANUFACTURER	MODEL	AIRFLOW	S.P.	HP	SUPP. HEAT	POWER	FLA	MOCP	MARK	MANUFACTURER	MODEL	TOTAL COOLING CAPACITY	SENSIBLE CAPACITY	HEATING CAPACITY	POWER	FLA	MOCP	SEER2	HSPF	NOTES
AHU-1	TRANE	6AM580B36	1100 CFM	0.50 in-wg	1/2	7.2 kW	208/3Ø	24 A	30 A	HP-1	TRANE	4TWR4036	34.5 MBH	26.3 MBH	21.0 MBH	208/3Ø	11 A	20 A	14.6 SEER2	7.5 HSPF2	1-7
AHU-2	TRANE	6AM580B36	1075 CFM	0.50 in-wg	1/2	7.2 kW	208/3Ø	24 A	30 A	HP-2	TRANE	4TWR4036	34.5 MBH	26.3 MBH	21.0 MBH	208/3Ø	11 A	20 A	14.6 SEER2	7.5 HSPF2	1-7
AHU-3	TRANE	6AM580B36	1075 CFM	0.50 in-wg	1/2	7.2 kW	208/3Ø	24 A	30 A	HP-3	TRANE	4TWR4036	34.5 MBH	26.3 MBH	21.0 MBH	208/3Ø	11 A	20 A	14.6 SEER2	7.5 HSPF2	1-7
AHU-4	TRANE	6AM580B36	1000 CFM	0.50 in-wg	1/2	7.2 kW	208/3Ø	24 A	30 A	HP-4	TRANE	4TWR4036	34.5 MBH	26.3 MBH	21.0 MBH	208/3Ø	11 A	20 A	14.6 SEER2	7.5 HSPF2	1-7
AHU-5	TRANE	6AM580B36	725 CFM	0.50 in-wg	1/2	7.2 kW	208/3Ø	24 A	30 A	HP-5	TRANE	4TWR4036	34.5 MBH	26.3 MBH	21.0 MBH	208/3Ø	11 A	20 A	14.6 SEER2	7.5 HSPF2	1-7
AHU-6	TRANE	6AM580C42	1175 CFM	0.50 in-wg	1/2	7.2 kW	208/3Ø	24 A	30 A	HP-6	TRANE	4TWR4042	43.2 MBH	32.9 MBH	24.2 MBH	208/3Ø	15 A	30 A	14.6 SEER2	7.5 HSPF2	1-7
AHU-7	TRANE	6AM580C60	1100 CFM	0.50 in-wg	1	10.8 kW	208/3Ø	38 A	50 A	HP-7	TRANE	4TWR4042	43.2 MBH	32.9 MBH	24.2 MBH	208/3Ø	15 A	30 A	14.6 SEER2	7.5 HSPF2	1-7
AHU-8	TRANE	6AM580B36	1300 CFM	0.50 in-wg	1/2	7.2 kW	208/3Ø	24 A	30 A	HP-8	TRANE	4TWR4036	34.5 MBH	26.3 MBH	21.0 MBH	208/3Ø	11 A	20 A	14.6 SEER2	7.5 HSPF2	1-7

NOTES:

1. PROVIDE WITH FUSIBLE DISCONNECT ON INDOOR AND OUTDOOR UNITS.
2. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION.
3. PROVIDE WITH PROGRAMMABLE THERMOSTAT WITH 10 HR BATTERY BACKUP AND 2 HOUR OVERRIDE..
4. SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS.
5. ROUTE CONDENSATE TO EXTERIOR SPLASH BLOCK.
6. PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.
7. PROVIDE WITH 2" PLEATED FILTER RACK AND FILTER AT UNIT.

FAN COIL SCHEDULE					CONDENSING UNIT SCHEDULE									
MARK	MANUFACTURER	MODEL	AIRFLOW	FLA	MARK	MANUFACTURER	MODEL	COOLING CAPACITY	POWER	PHASE	MCA	MOCP	SEER2	NOTES
FC-9	MITSUBISHI	PKA-A24KA8	700 CFM	1 A	CU-9	MITSUBISHI	PUY-A24NH47	24.0 MBH	208 V	1	19 A	25 A	21.3	1-5

NOTES:

1. PROVIDE WITH FUSIBLE DISCONNECT ON OUTDOOR UNIT.
2. PROVIDE MOTOR RATED SWITCH FOR INDOOR UNIT.
3. PROVIDE WITH CONDENSATE PUMP AND ROUTE DISCHARGE TO FLOOR DRAIN BY P.C.
4. PROVIDE WITH WIRED THERMOSTAT.
5. PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.

EXHAUST FAN SCHEDULE										
MARK	MANUFACTURER	MODEL	SERVICE	TYPE	AIRFLOW	RPM	WATTS/HP	S.P.	POWER	NOTES
EF-1	COOK	6C-140	TOILET	CABINET FAN	105 CFM	1500	67 W	0.25 in-wg	120/1Ø	1-3
EF-1	COOK	6C-140	TOILET	CABINET FAN	105 CFM	1500	67 W	0.25 in-wg	120/1Ø	1-3
EF-3	COOK	6C-180	TOILETS	CABINET FAN	250 CFM	1500	182 W	0.25 in-wg	120/1Ø	1,2,4
EF-4	COOK	6C-180	TOILETS	CABINET FAN	250 CFM	1500	182 W	0.25 in-wg	120/1Ø	1,2,4

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH
2. PROVIDE WITH BACKDRAFT DAMPER.
3. CONTROL VIA LIGHT SWITCH BY E.C.
4. CONTROL VIA TIMECLOCK LOCATED IN ELEC 123.

OUTSIDE AIR SUMMARY

REQUIRED:

TOTAL REQUIRED = 8690 SQFT * 0.12 CFM/SQFT + 132 PERSONS * 5 CFM/PERSON = 1703 CFM

PROVIDED:

AHU-1 = 200 CFM
AHU-2 = 200 CFM
AHU-3 = 175 CFM
AHU-4 = 200 CFM
AHU-5 = 175 CFM
AHU-6 = 200 CFM
AHU-7 = 400 CFM
AHU-8 = 175 CFM

TOTAL PROVIDED = 1725 CFM

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C.).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING, THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO HIS EQUIPMENT.
7. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
8. INSTALL TURNING VANES IN SUPPLY DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
9. ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
10. THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
11. THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
12. FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
13. ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
14. ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.
15. MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
16. THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
17. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
18. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR APPROVAL.
19. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
20. PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
21. LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SHEET METAL DUCT
	FLEXIBLE DUCT
	SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
	RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXHAUST FAN
	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
	BALANCING DAMPER
	ELBOW WITH TURNING VANES
	HUMIDISTAT - MOUNTED 48" ABOVE FINISHED FLOOR
	MOTOR OPERATED DAMPER
	GRAVITY BACKDRAFT DAMPER
	MANUAL (BALANCING) DAMPER
	PARALLEL BLADE DAMPER
	OPPOSED BLADE DAMPER
	WALL MOUNTED CARBON DIOXIDE SENSOR
	DUCT MOUNTED CARBON DIOXIDE SENSOR
	CONDENSATE DRAIN
	PIPING TURNED DOWN
	PIPING TURNED UP
	PIPING SIDE CONNECTION

NEW CONSTRUCTION FOR:

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SD/DD
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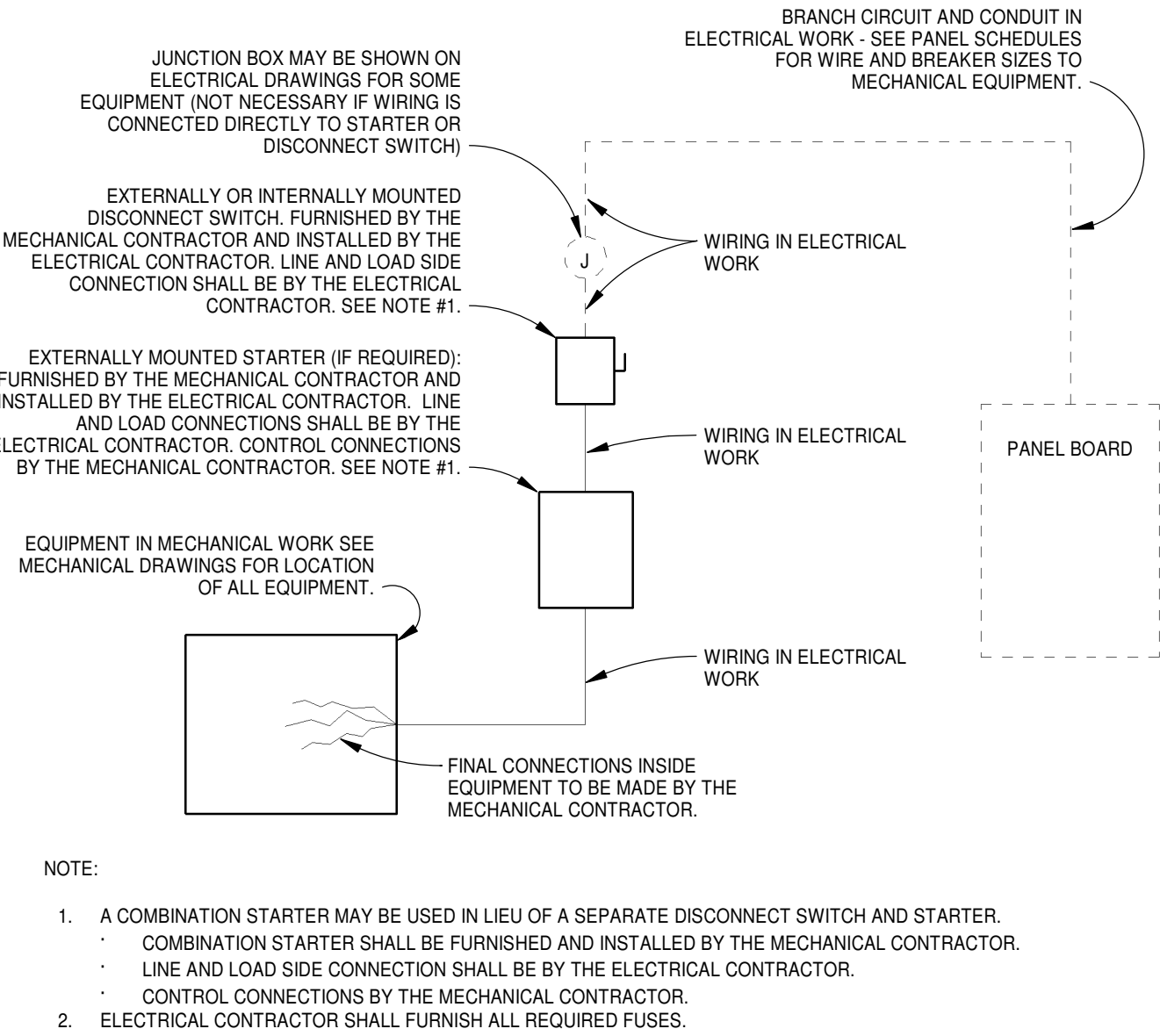
Revisions
Description Date

Date
9/27/24
Project No.
22038
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PJM
Sheet No.
M0.1
Checked By
PJM
Sheet Title
MECHANICAL NOTES,
LEGEND, AND DETAILS

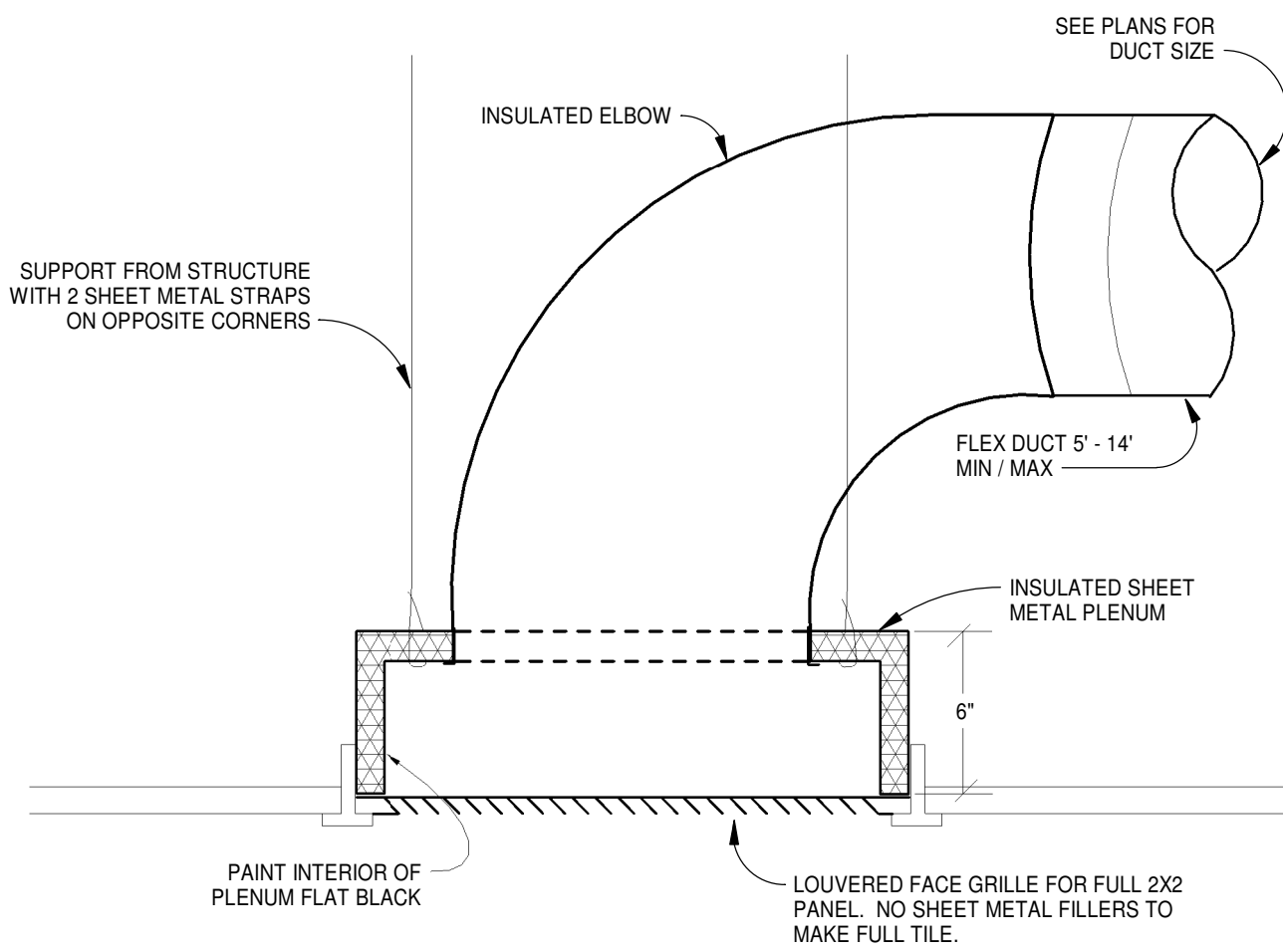
OAKLEY
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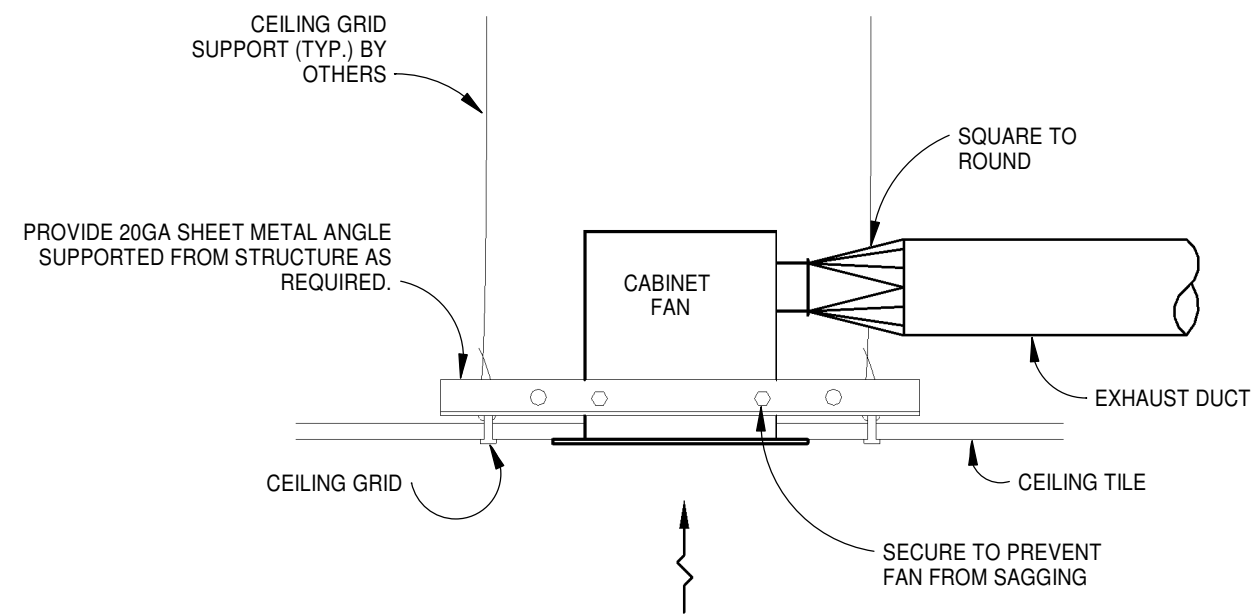
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VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC



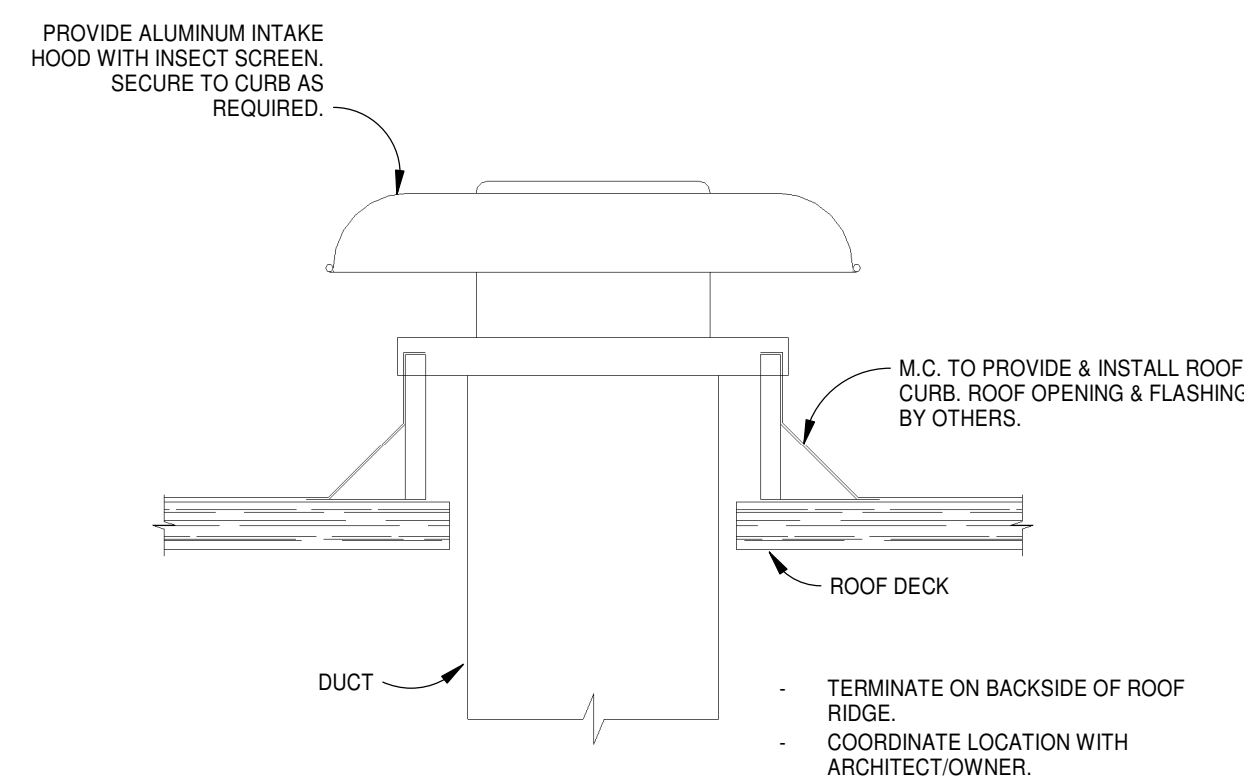
9 TYPICAL WIRING DETAIL
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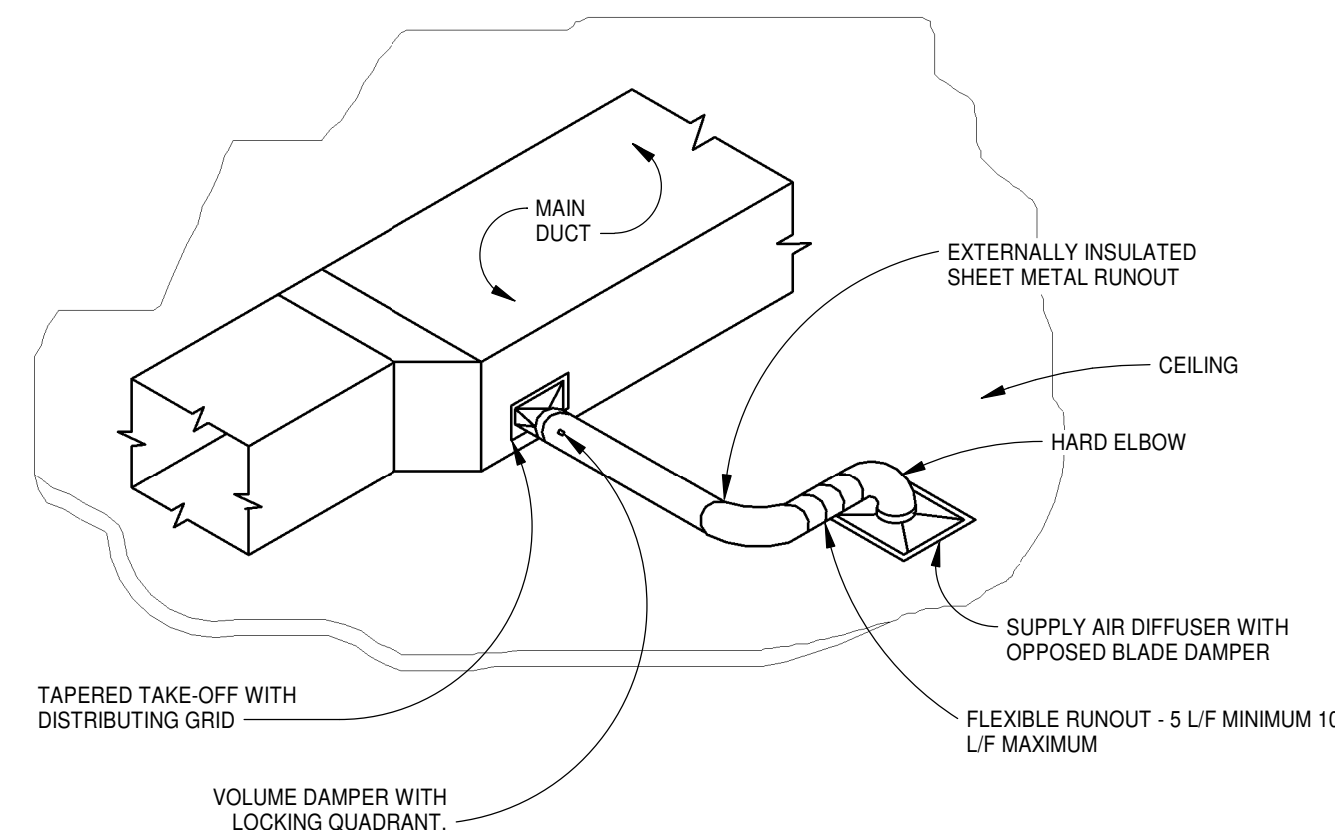
6 RETURN GRILLE DETAIL
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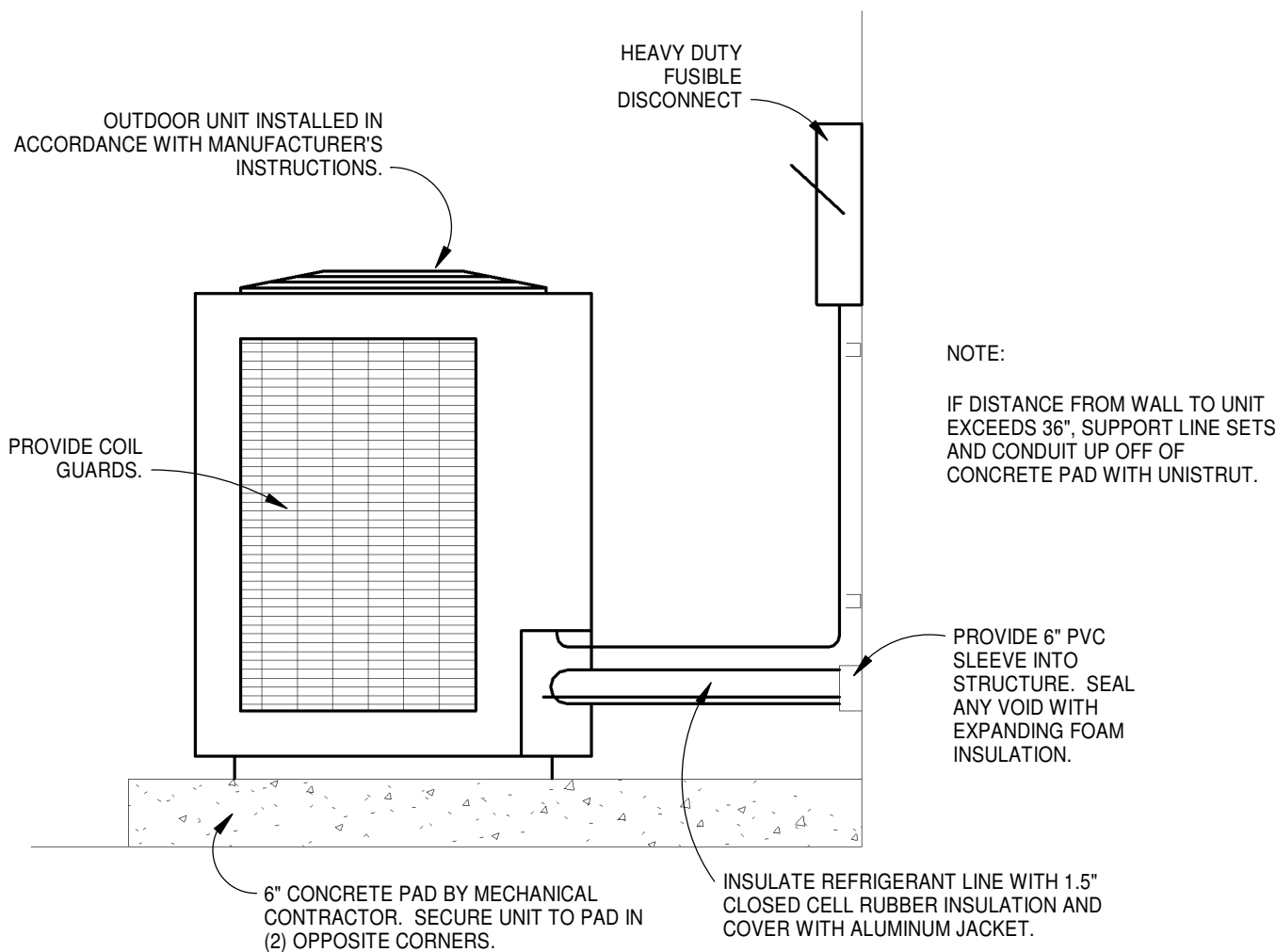
3 CABINET FAN DETAIL
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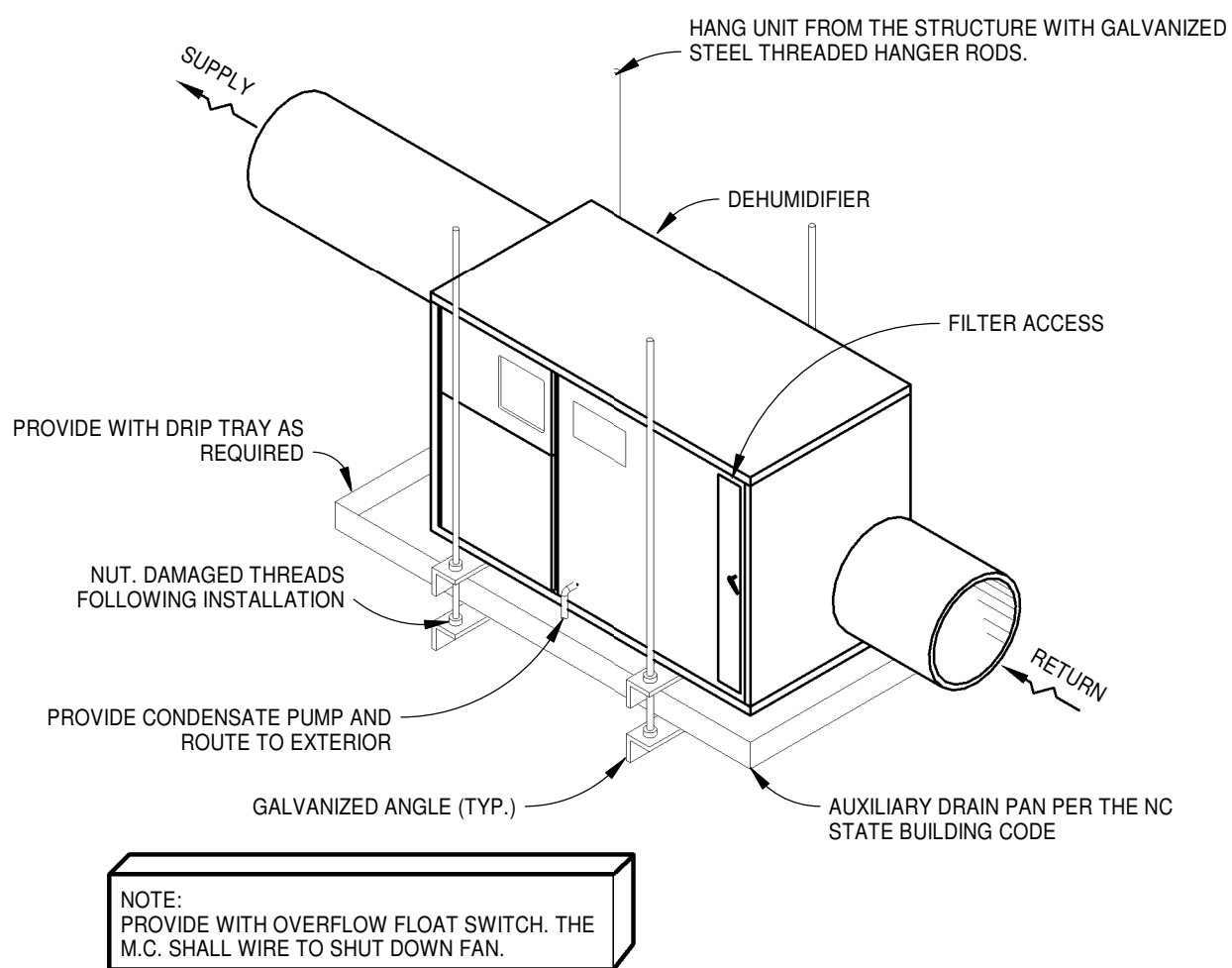
8 ROOF CAP DETAIL
M0.2 NOT TO SCALE



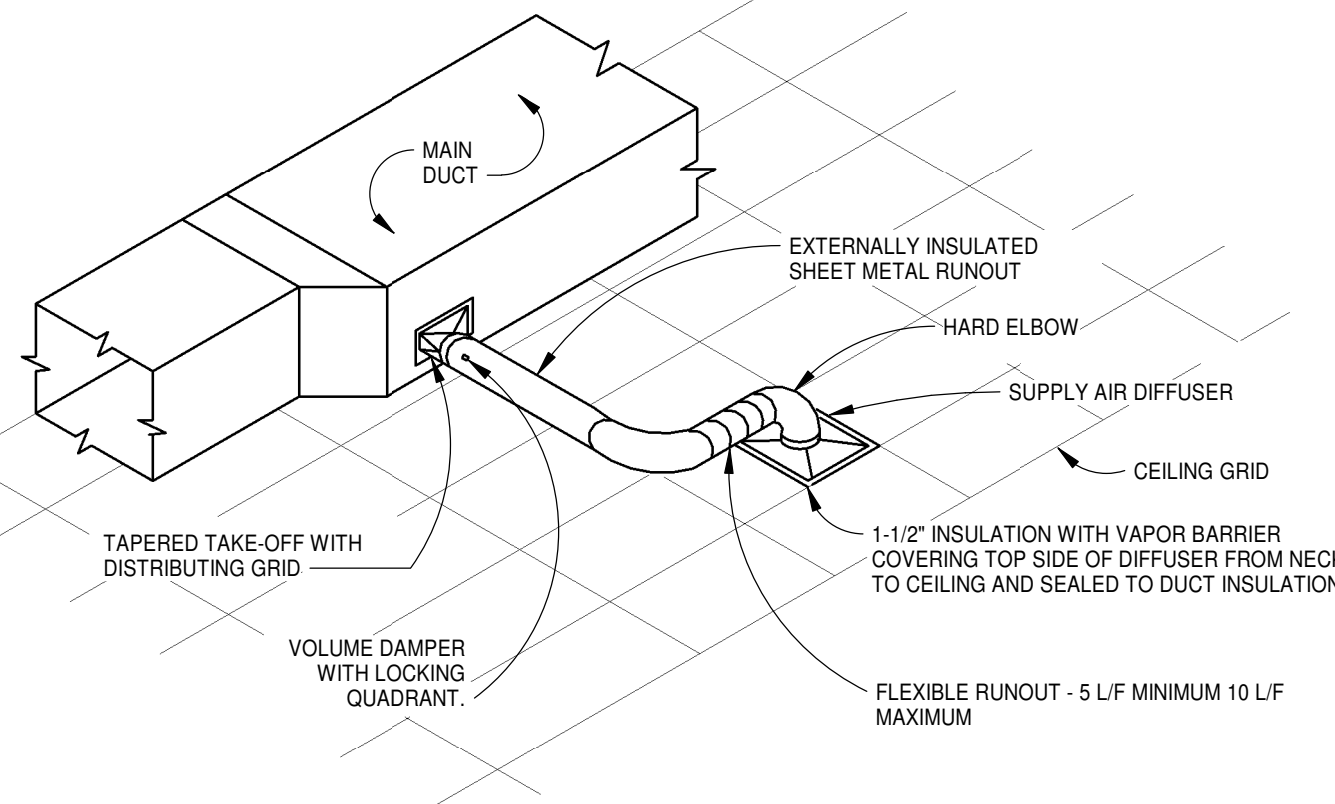
5 HARD CEILING DIFFUSER DETAIL
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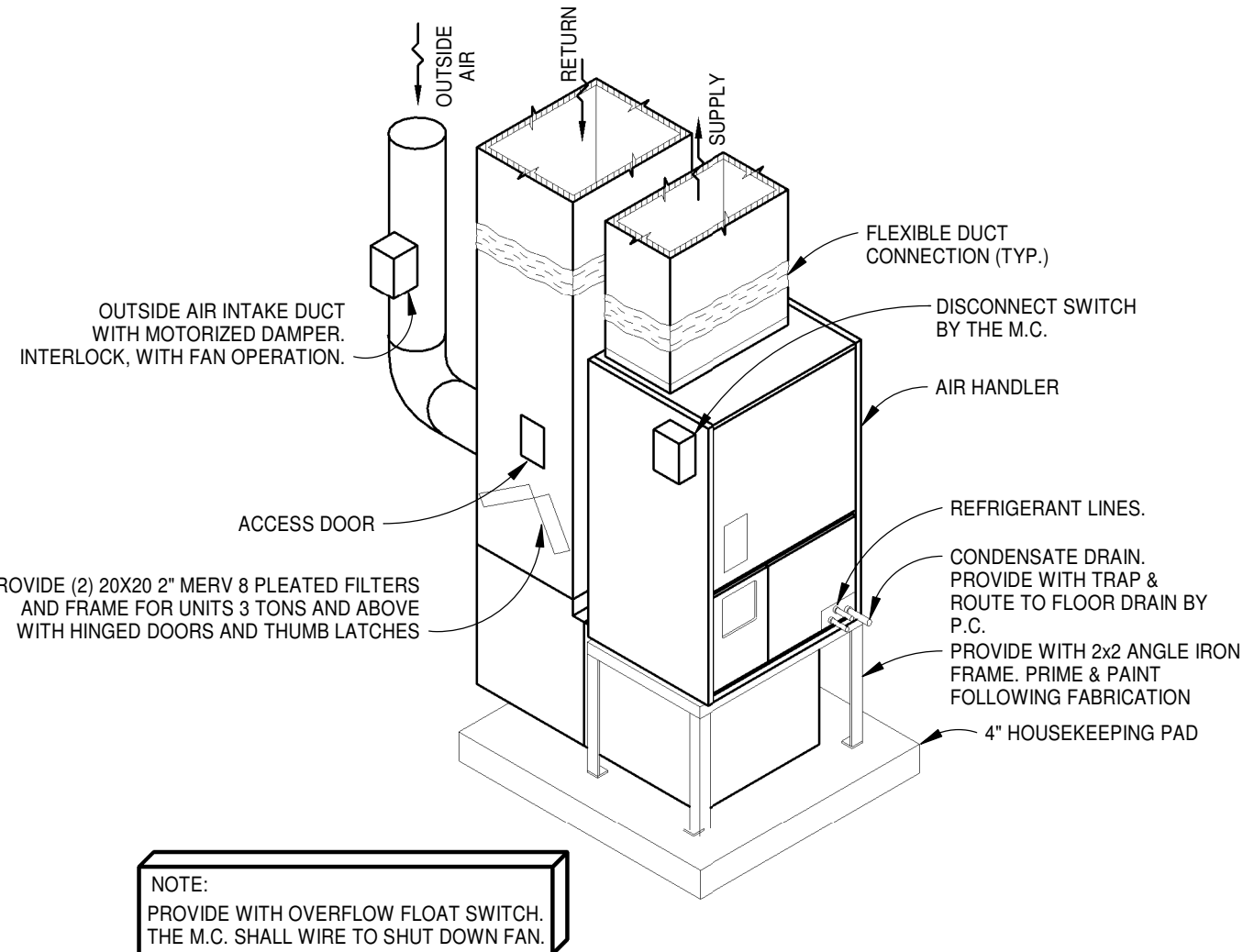
2 OUTDOOR UNIT DETAIL
M0.2 NOT TO SCALE



7 DEHUMIDIFIER DETAIL
M0.2 NOT TO SCALE



4 LAY-IN DIFFUSER DETAIL
M0.2 NOT TO SCALE



1 AIR HANDLER DETAIL
M0.2 NOT TO SCALE

NEW CONSTRUCTION FOR:

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REVIEW SET

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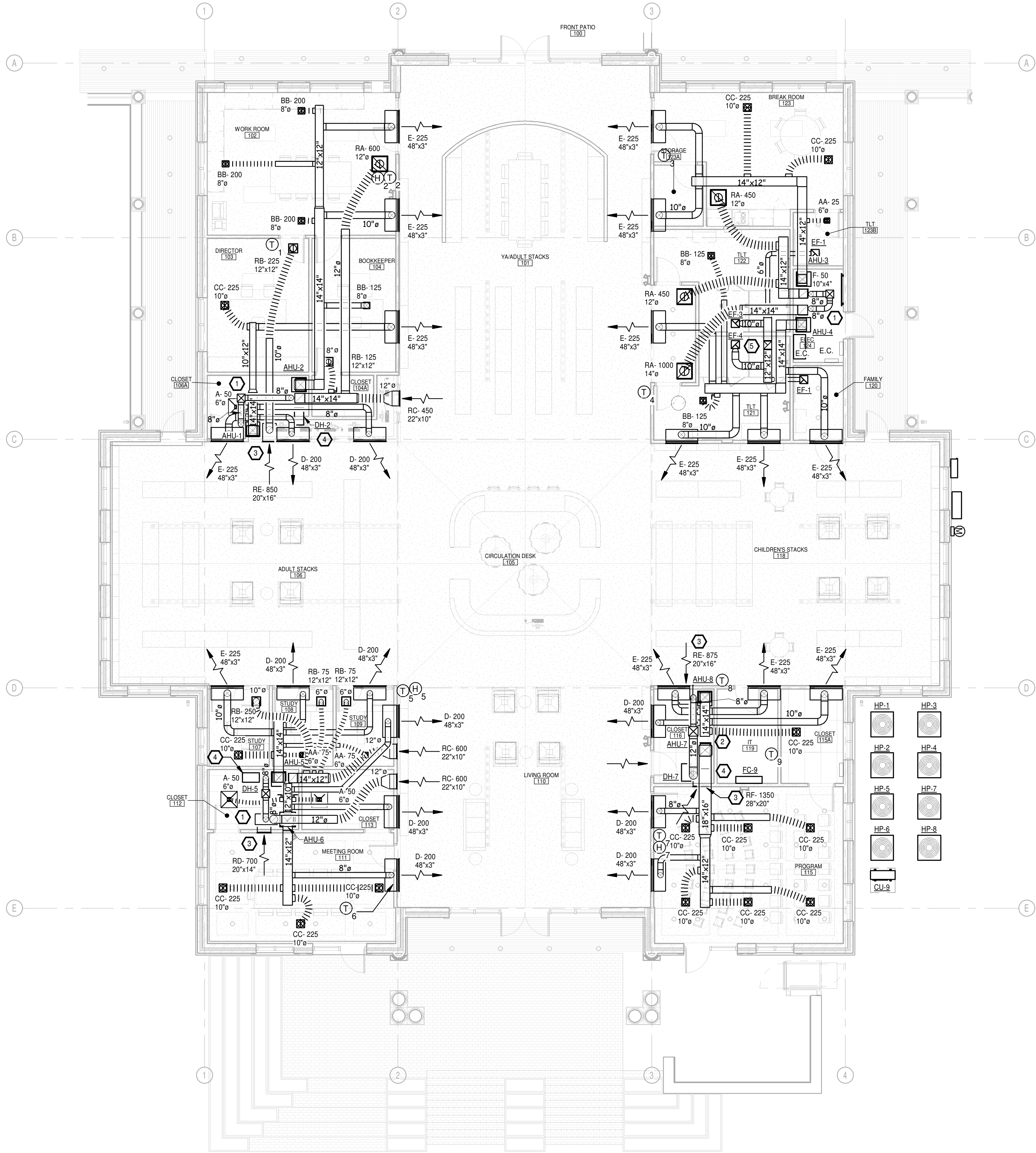
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PJM

Sheet Title
MECHANICAL DETAILS



- KEY NOTES M1.1
- 1 PROVIDE 12X12 OUTSIDE AIR DUCT FROM INTAKE HOOD ON ROOF EQUAL TO GREENHECK F6I-12X12. PROVIDE WITH PITCHED ROOF CURB.
 - 2 PROVIDE 14X14 OUTSIDE AIR DUCT FROM INTAKE HOOD ON ROOF EQUAL TO GREENHECK F6I-14X14. PROVIDE WITH PITCHED ROOF CURB.
 - 3 LOCATE BOTTOM OF RETURN GRILLE 12" AFF. PROVIDE WITH ELBOW FOR SOUND ATTENUATION.
 - 4 CONNECT DEHUMIDIFIER TO AIR HANDLER VIA 10"Ø FLEX DUCT FROM RETURN PLENUM AND 10"Ø TO SUPPLY PLENUM.
 - 5 PROVIDE 12X12 EXHAUST DUCT UP TO RELIEF HOOD EQUAL TO GREENHECK F6R-12X12. PROVIDE 10' OF CLEARANCE FROM ALL AIR INTAKES. PROVIDE WITH PITCHED ROOF CURB.

1
M1.1
MECHANICAL PLAN
1/8" = 1'-0"

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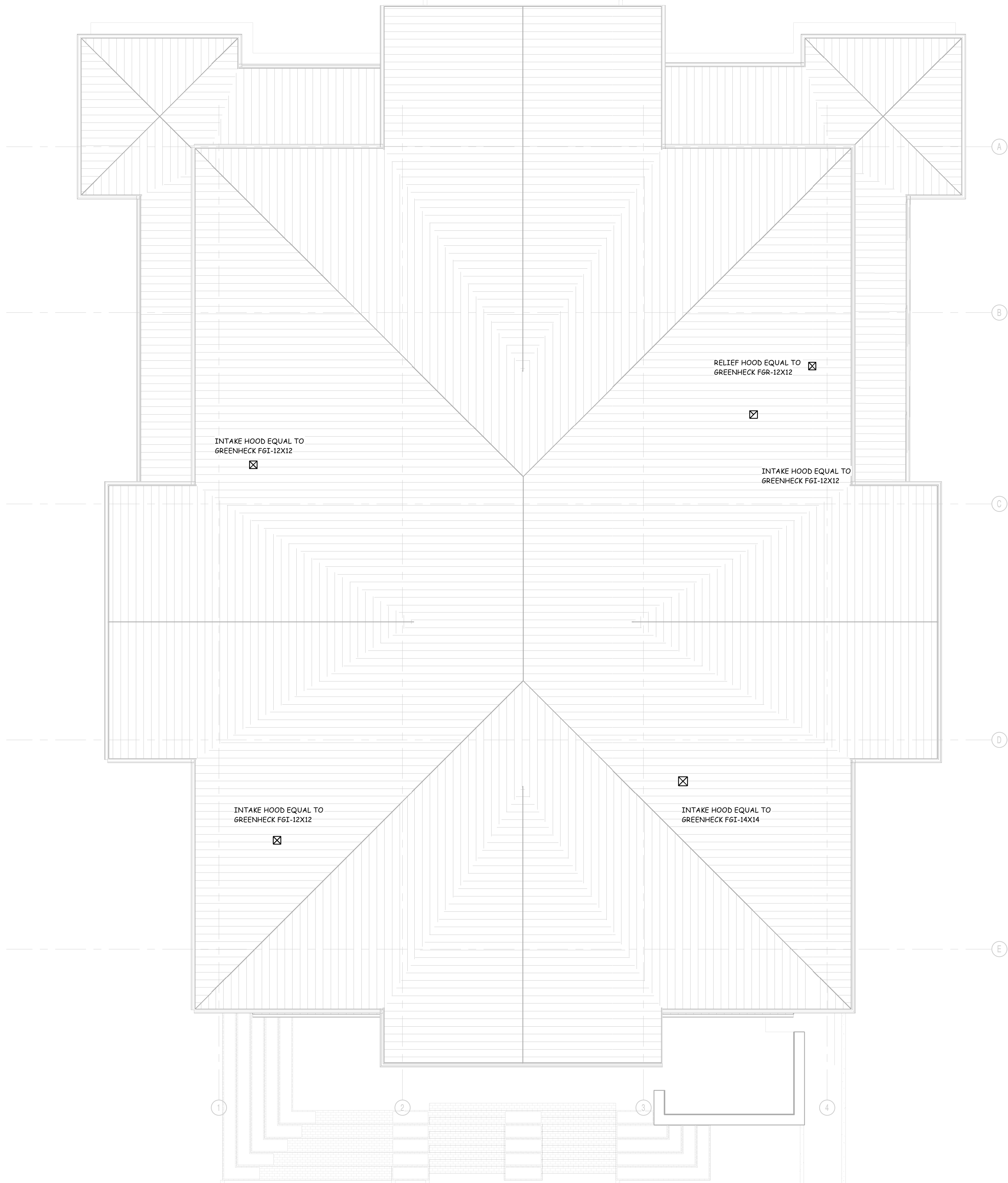
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Checked By PJM	Sheet Title MECHANICAL PLAN



1
M1.2 MECHANICAL ROOF PLAN
1/8" = 1'-0"

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	2 X 4 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR PENDANT/SURFACE MOUNT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	PENDANT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXTERIOR WALL LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EMERGENCY WITH EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	BATTERY BACKUP EMERGENCY LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	5 BLADE 52" FAN, 120V AC WITH LT6HT	HUNTER OR HAMPTON BAY TORK: ZSS124
	PHOTOCELL, 105-305VAC, 50/60HZ, 1800VA BALLAST LOAD, 1000W TUNGSTEN LOAD, 8A LED LOAD (UP TO 2220W @277V)	
S	SINGLE POLE TOGGLE SWITCH, MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	HUBBELL CS1221-11 WITH S1 COVER PLATE
S ₃	THREE WAY TOGGLE SWITCH, MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	HUBBELL CS1223-11 WITH S1 COVER PLATE
S _M	WALL MOUNTED OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGIES, MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. 800W/120VAC	SENSORSWITCH WXS-PDT-11 S26 COVER PLATE
S _{MD}	WALL MOUNTED 0-10V DIMMING SWITCH WITH OCCUPANCY SENSOR, DUAL TECHNOLOGIES, 1000W/120VAC OR 1200W/277VAC, MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE SWITCHED WIRE AND 0-10V CONTROL WIRE TO FIXTURE AS REQUIRED.	SENSORSWITCH WXS-PDT-D-11 NPJ26 COVER PLATE
S _{3D}	DIMMING 3-WAY SWITCH WITH PRESET TO MATCH TYPE 'H' FIXTURE, 0-10V DIMMING, MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE SWITCHED WIRE AND 0-10V CONTROL WIRE TO FIXTURE AS REQUIRED	LUTRON DVST-XX NPJ26 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE, MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL BR20-11-TR WITH S8 COVER PLATE
GFI	SPECIFICATION GRADE TAMPER RESISTANT GFCI DUPLEX RECEPTACLE, MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL GFTR20-11 WITH S26 COVER PLATE
WP	SPECIFICATION GRADE TAMPER RESIANT AND WEATHER RESISTANT GFCI DUPLEX RECEPTACLE WITH INUSE WEATHER PROOF COVER, MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL GFTR20-11 WITH WP28M COVER PLATE
GFI	SPECIFICATION GRADE TAMPER RESISTANT GFCI DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL GFTR20-11 WITH S26 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL BR20-11-TR WITH S8 COVER PLATE
EWC	SPECIFICATION GRADE DUPLEX RECEPTACLE FOR WATER COOLER, MOUNT 24" A.F.F. FOR CONCEALMENT OF CORD. LOCATED IN EWC COVER, FED FROM GFCI CIRCUIT BREAKER.	HUBBELL CR5362-11 WITH S8 COVER PLATE
	SPECIFICATION GRADE DUPLEX RECEPTACLE, MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED, FED FROM GFCI CIRCUIT BREAKER.	HUBBELL CR5362-11 WITH S8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT QUAD RECEPTACLE, MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL (2) BR20-11-TR WITH S82 COVER PLATE
	2 GANG ROUND RECESSED CONCRETE FLOOR BOX WITH FLAP COVER, 1 GANG WITH DUPLEX TAMPER RESISTANT RECEPTACLE, 1 GANG FOR COMMUNICATION BY OTHERS, 1" HUB FOR POWER, 1 1/2" HUB FOR DATA, PROVIDE COVER TO MATCH FLOOR TYPE PER ARCHITECT INSTRUCTION, CUT AND PATCH FLOOR AS REQUIRED	HUBBELL: BOX: S1PFB COVER: S1TFC-11 (TILE) PLATES: SISPDUSL REC: 5362TR-11
	JUNCTION BOX SIZED PER N.E.C	PER N.E.C.
	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	SQUARE D HEAVY DUTY
	NEW CONCEALED WIRING	PER N.E.C.
	UNSWITCHED LIGHTING CONDUCTOR	PER N.E.C.
	HOME RUN TO PANEL BOARD	PER N.E.C.
	120/208V 3Ø, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D: NQ
	COMMUNICATIONS OUTLET - MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. SINGLE GANG BOX WITH 3/4" STUB CONDUIT TO ACCESSIBLE CEILING SPACE. DEVICE FURNISHED AND INSTALLED BY OTHERS	SINGLE GANG BOX
A.F.C.	ABOVE FINISHED CEILING	
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	

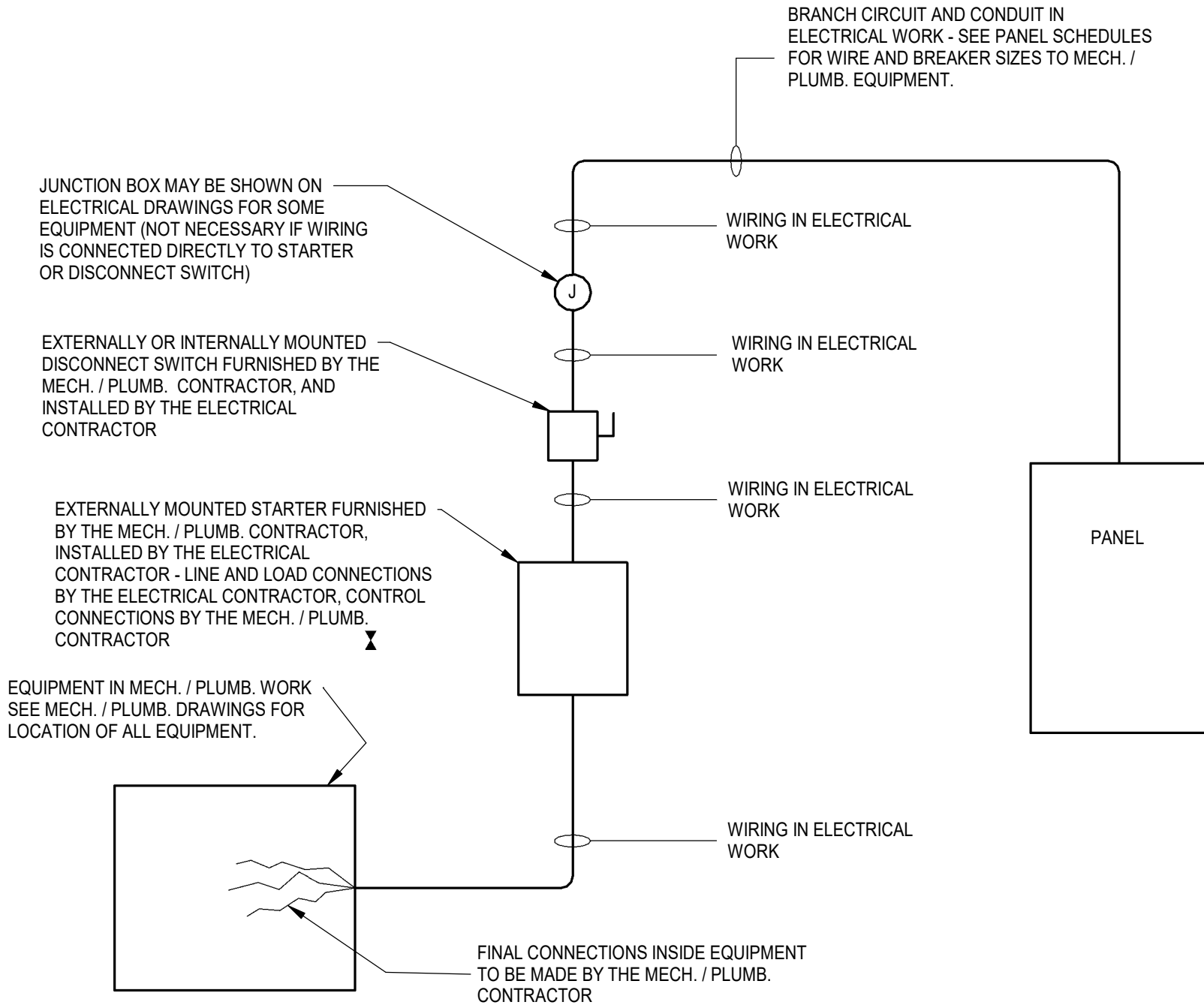
NOTE:

E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH, RECEPTACLE AND WALL PLATE TO ARCHITECT PRIOR PURCHASING ANY.

GENERAL NOTES

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- ALL BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
- ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- EACH CONTRACTOR SHALL 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. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS
- PENETRATION:
 - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
 - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
- ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
- AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THIN/THWN WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THWN-2 WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECTED TO THE FOLLOWING RESTRICTIONS:
 - SEE NEC 320 AND 330 FOR RESTRICTION.
 - PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION METHODS.
 - CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
 - CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FURRED AREAS.
- THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
- ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
- ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
- BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL. WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
- FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI A117.1, SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL SWITCHES, RECEPTACLES AND DISCONNECTS SHALL BE LABELED WITH THEIR RESPECTIVE CIRCUIT NUMBER.
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF HIS COMMUNICATION CONDUIT STUB OUTS WITH THE LOCAL COMMUNICATION SERVICE COMPANY PRIOR TO HIS INSTALLING ANY CONDUITS.
- CONDUIT INSTALLATION IN EXTERIOR WALL AIR CAVITIES SHALL NOT BE PERMITTED.

- ELECTRICAL IDENTIFICATION
 - FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION.
 - FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.



NOTES:

- A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND A STARTER.
- E.C. SHALL FURNISH ALL REQUIRED FUSES.

1
E0.1

WIRING TO MECHANICAL AND PLUMBING EQUIPMENT

NOT TO SCALE

LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
A	2X4 LED VOLUMETRIC LED FIXTURE RECESSED MOUNTING 3000 LUMEN	LITHONIA: ZBLT4-30L-ADP-GZ10 MOUNTING KIT: 2X4SMKSHIP-PAF	3000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 24 WATTS - 27 VA, 120-277V	
B	6" LED CAN LIGHT FIXTURE RECESSED MOUNTING 1500 LUMEN LISTED FOR WET LOCATION	LITHONIA: LDN6-35/15-L06-AR-LSS-MVOLT-GZ10	1500 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 18 WATTS - 20 VA, 120-277V	
B2	6" LED CAN LIGHT FIXTURE RECESSED MOUNTING 1000 LUMEN LISTED FOR WET LOCATION	LITHONIA: LDN6-35/10-L06-AR-LSS-MVOLT-GZ10	1500 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 11 WATTS - 12 VA, 120-277V	
B2E	6" LED CAN LIGHT FIXTURE RECESSED MOUNTING, 1000 LUMEN LISTED FOR WET LOCATION WITH BATTERY BACKUP	LITHONIA: LDN6-35/10-L06-AR-LSS-MVOLT-GZ10-EL	1500 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 11 WATTS - 12 VA, 120-277V	
C	2X4 FLAT PANEL LED FIXTURE RECESSED MOUNTING 4000 LUMEN	LITHONIA: CPANL-2X4-AL06-SWW7-M2	4000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 36 WATTS - 40 VA, 120-277V	
D	DECORATIVE PENDANT	SELECTED BY ARCHITECT: PROVIDE \$500 ALLOWANCE	2400 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 22 WATTS - 25 VA, 120-277V	
F	4" LED STRIPLIGHT SURFACE MOUNTED 4000 LUMEN	LITHONIA: CSS-L48-4000LM-MVOLT-35K-80CRI	4000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 36 WATTS - 40 VA, 120-277V	
G	4" LED LINEAR FIXTURE RECESSED MOUNTING 1000 LUMEN PER FOOT	ELITE LIGHTING: OLD-R-LED-2-S-4-1000L-WW-DIM10-MVOLT-40K-85	1000 LUMEN PER FOOT LED, 4000K 0-10V DIMMING ELECTRONIC DRIVER 33 WATTS - 37 VA, 120-277V	
H	4" LED LINEAR FIXTURE PENDANT MOUNTING 500 LUMEN PER FOOT	ELITE LIGHTING: OLS-DI-LED-4-S-4-D500L-U500L-DIM10-MVOLT-40K-85	500 LUMEN PER FOOT LED, 4000K 0-10V DIMMING ELECTRONIC DRIVER 32 WATTS - 36 VA, 120-277V	
J	EXTERIOR WALL MOUNT FIXTURE 4500 LUMEN LISTED FOR WET LOCATION	LITHONIA: WDGE2-P4-30K-90CRI-VF-MVOLT	4500 LUMEN LED, 3000K ELECTRONIC DRIVER 35 WATTS - 39 VA, 120-277V	
EG	EMERGENCY LIGHT WITH BATTERY BACKUP	LITHONIA: EU2L-M12	(2) 0.75W LED HEADS 5 WATTS - 5 VA, 120/277V	
EGX	EMERGENCY WITH EXIT LIGHT 1 SIDE RED LETTER WITH BATTERY BACKUP	LITHONIA: ECC-R	(2) 0.75W LED HEADS, LED FOR PANEL 10 WATTS - 11 VA, 120/277V	

NOTES:

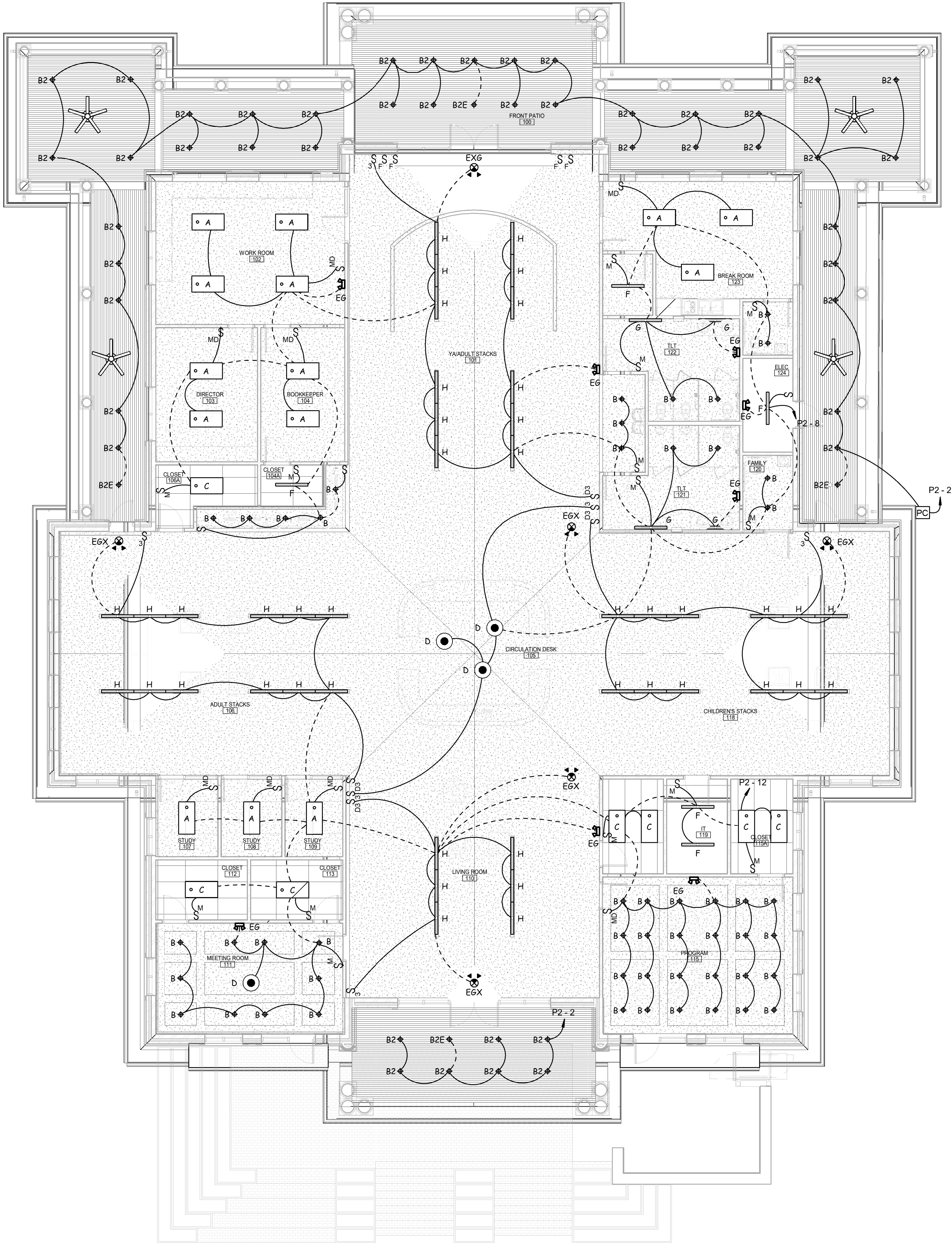
- SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
- E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING. FINISH COLOR/TRIM SUBJECT TO BE CHANGED PER ARCHITECT.
- LED COLOR:
 - INTERIOR: 3500K UNLESS OTHERWISE NOTED.
 - EXTERIOR: 3000K UNLESS OTHER WISE NOTED.
 - FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.

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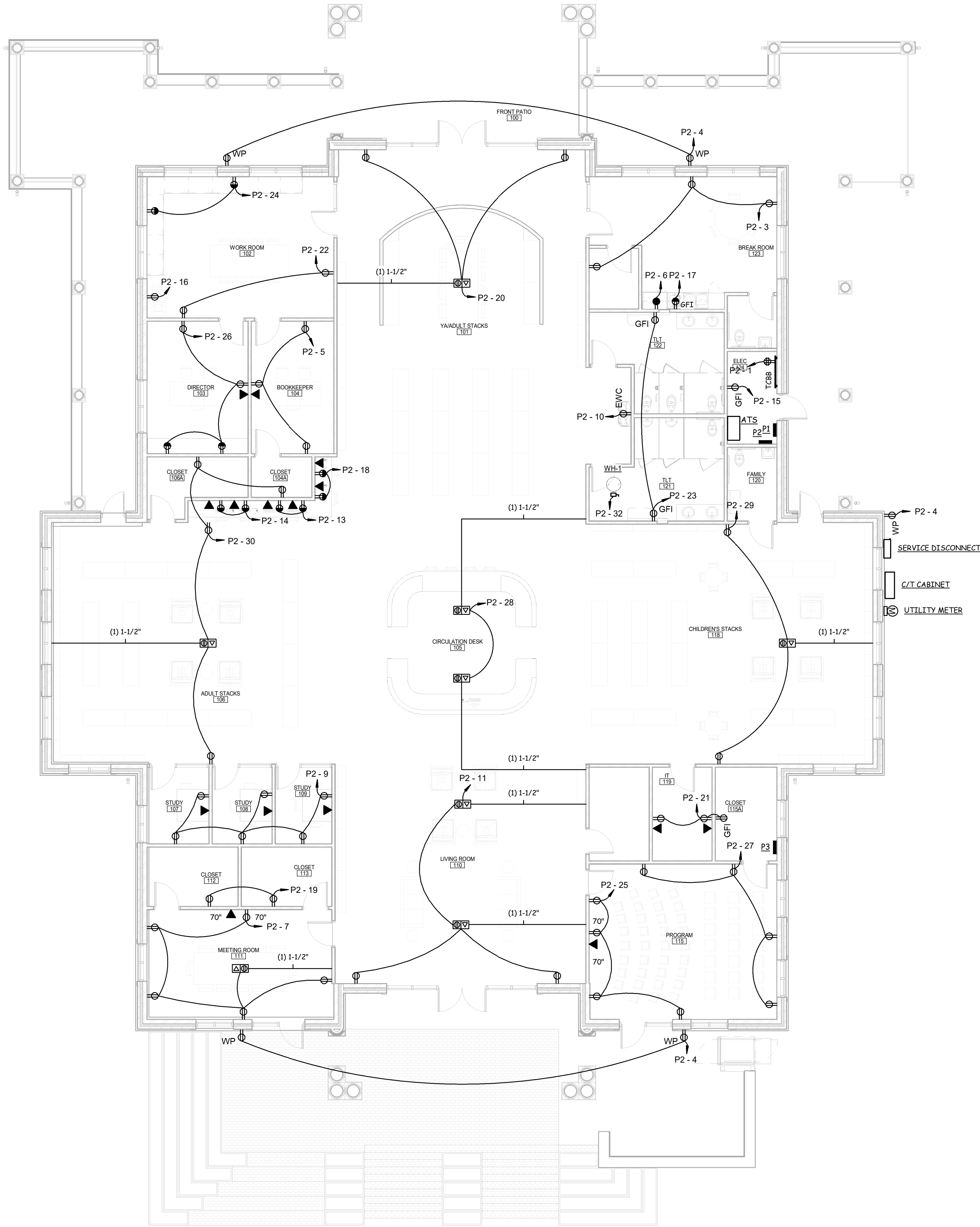
Date 9/27/24	Project No. 22038
Drawn By SWM	Sheet No. E0.1
Checked By DJW	

Sheet Title
ELECTRICAL SYMBOL
LEGEND, GENERAL
NOTES, AND DETAILS



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

1
E1.2 POWER PLAN
1/8" = 1'-0"



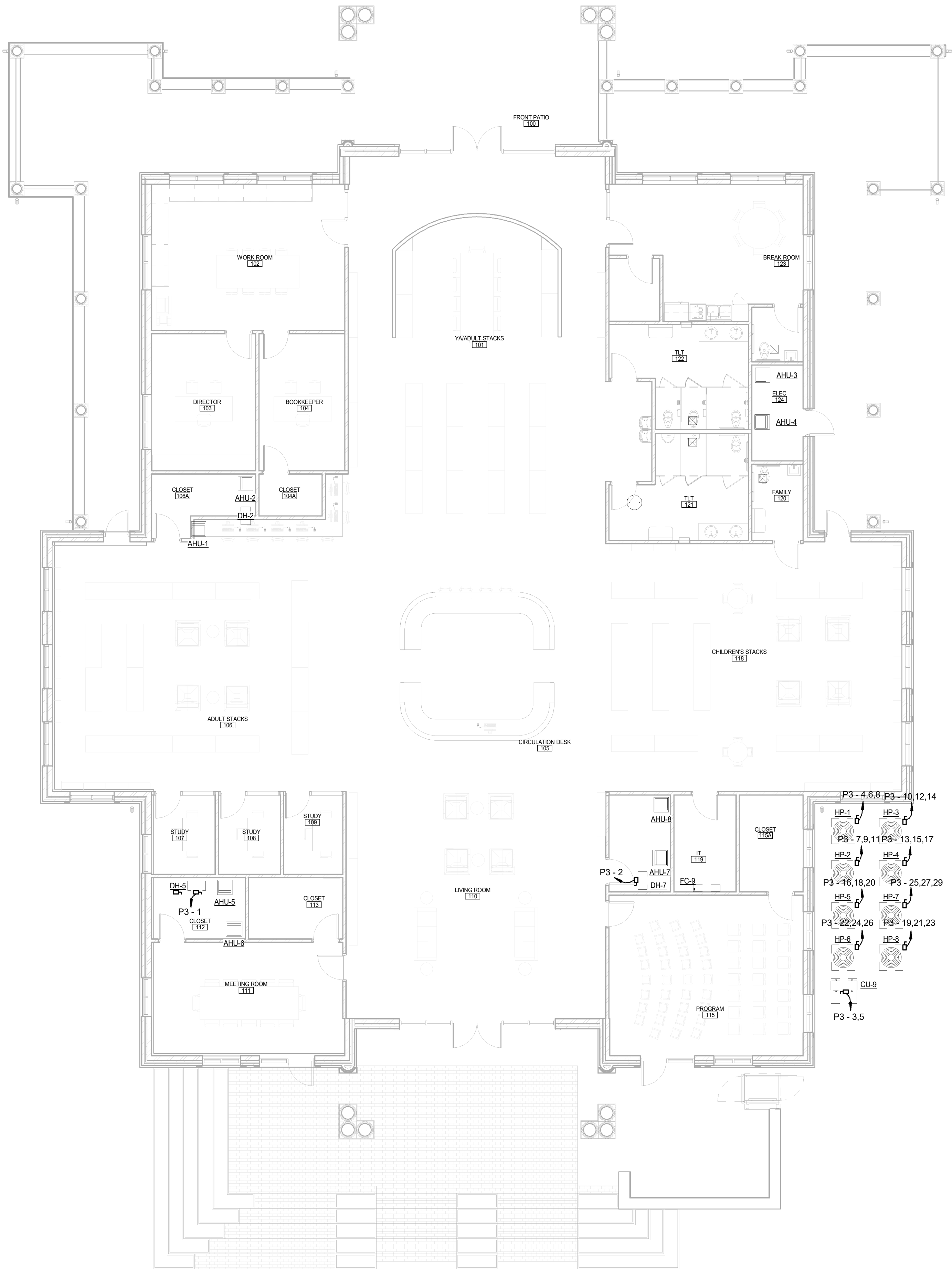
WHERE DO YOU WANT THE METER AND SERVICE DISCONNECT LOCATED?

GENERAL NOTE:
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start, Contractor shall
verify & be responsible
for all Dimensions.

Revisions
Description Date

Date 9/27/24	Project No. 22038
Drawn By SWM	Sheet No. E1.2
Checked By DJW	Sheet Title POWER PLAN

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1
E1.3 HVAC POWER PLAN
1/8" = 1'-0"

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Author
Sheet No.
E1.3
Checked By
Checker

Sheet Title
HVAC POWER PLAN

KEY NOTES:

- 1

UNDERGROUND SERVICE CONDUCTORS
2 SETS OF 4-#350 IN 3" C
- 2

C/T CABINET AND METER BASE BY E.C. IN ACCORDANCE WITH LOCAL UTILITY.
- 3

SERVICE ENTRANCE CONDUCTORS
2 SETS OF 4-#350 IN 3" C
- 4

BUILDING SERVICE DISCONNECT.
 - 600A, 208VAC, 3P NEMA 3R FUSIBLE DISCONNECT.
 - PROVIDE 600A FUSES, MIN. AIC RATING OF 100KA.
 - UL LISTED FOR USE AS SERVICE EQUIPMENT.
 - PROVIDE PLAQUE 'SERVICE DISCONNECT'.
 - E.C. SHALL OBTAIN AVAILABLE FAULT CURRENT FROM ENGINEER AND PROVIDE PLAQUE INDICATES AVAILABLE FAULT CURRENT ON DISCONNECT PER NEC 110.24(A).
- 5

GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
 - 1-#2/0G CU IN 3/4" TO BUILDING STEEL, C.W. MAIN
 - 1-#4G CU IN 1/2" TO REINFORCED STEEL AT CONCRETE FOOTING.
 - 1-#6G CU IN 1/2" TO 2 DRIVEN RODS.
- 6

2 SETS OF 4-#350, 1-#1G IN 3" C
- 7

SEE PANEL SCHEDULES FOR DETAILS
- 8

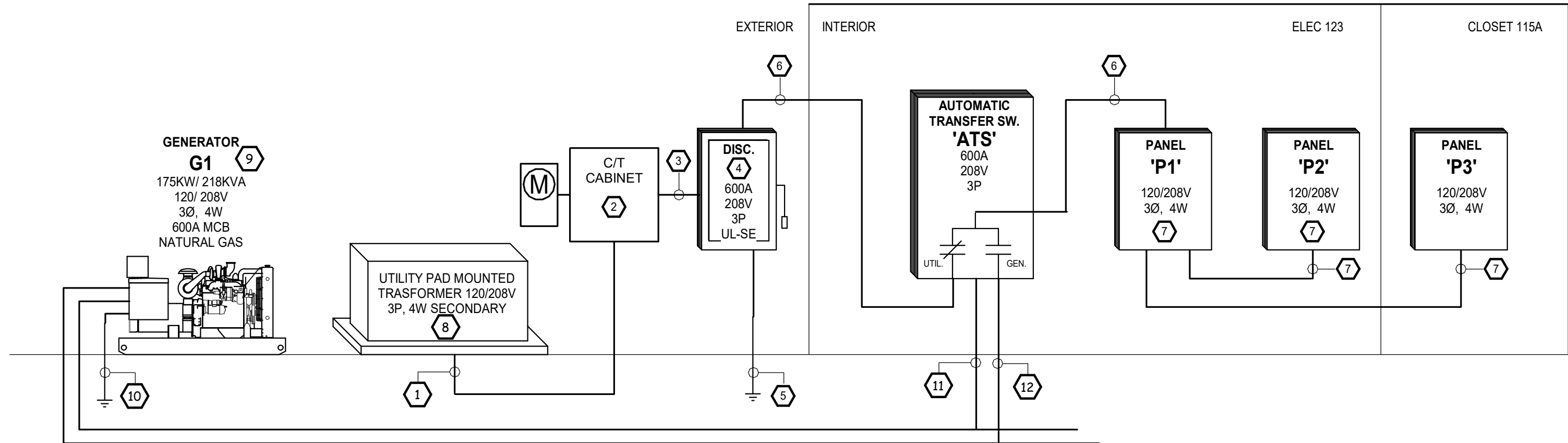
UTILITY PAD MOUNTED TRANSFORMER WITH C.T. AND METER.
PAD BY E.C. PER UTILITY SPEC.
- 9

OPTIONAL STANDBY NATURAL GAS GENERATOR
 - 175KW/218KVA, 120/208V 3Ø, 4W
 - 600A MAIN BREAKER
 - ALUMINUM, LEVEL 1 SOUND ATTENUATED ENCLOSURE
 - PROVIDE CONCRETE PAD AS REQUIRED.
 - PROVIDE EMERGENCY SHUTDOWN SWITCH AT THE EXTERIOR OF ENCLOSURE. LABEL 'GENERATOR EMERGENCY SHUTDOWN'.
 - PROVIDE WITH REMOTE ANNUNCIATOR LOCATED INSIDE BUILDING. SEE PLAN FOR REMOTE ANNUNCIATOR LOCATION.
 - DO NOT BOND NEUTRAL TO GROUND BAR.
 - PROVIDE WITH 120V BATTERY CHARGER AND JACKET HEATER
- 10

GROUNDING ELECTRODE CONDUCTORS. BOND PER NEC 250.
 - 1-#2/0G CU BOND FROM GROUND BAR TO GENERATOR CHASSIS.
 - 1-#4G CU IN 1/2" TO REINFORCE STEEL AT CONCRETE FOOTING.
 - 1-#6G CU IN 1/2" TO 2 DRIVEN RODS.
- 11

GENERATOR CONTROL AND ANNUNCIATOR WIRING IN CONDUIT BETWEEN GENERATOR AND ATS.
- 12

GENERATOR FEEDER.
2 SETS OF 4-#350 KCMIL, 1-#1G IN 3" C



1
E2.1
POWER RISER DIAGRAM
NOT TO SCALE

Branch Panel: P2

Location: STOR. 429

Supply From: P1

Mounting: Surface

Enclosure: 1

Volts: 120/208 3P 4W

Phases: 3

Wires: 4

Listing:

A.I.C. Rating: 10kA

Mains Type: Main Lug Only

Mains Rating: 100 A

Type:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	REC TCBB	20	1	0.5	0.7					1	20	LIGHT EXTERIOR	2
3	REC 122	20	1			0.5	1.0			1	20	REC EXTERIOR	4
5	REC 104	20	1					0.5	1.0	1	20	REFRIGERATOR - NOTE 1	6
7	REC 111	20	1	1.3	1.6					1	20	LIGHT 101-105, 119-122	8
9	REC 107-109	20	1			1.1	1.4			1	20	EWC - NOTE 1	10
11	REC 110	20	1					1.1	1.4	1	20	LIGHTS 106-119	12
13	REC 105	20	1	0.4	0.4					1	20	RECEPTACLE	14
15	REC 119, 123	20	1			0.2	0.2			1	20	REC 102	16
17	REC 122	20	1					0.2	0.4	1	20	REC 105	18
19	REC 112, 113	20	1	0.4	0.4					1	20	REC 101	20
21	REC 117	20	1			0.5	0.4			1	20	REC 102	22
23	REC 120, 121	20	1					0.4	0.4	1	20	REC 102	24
25	REC 115	20	1	0.7	0.7					1	20	REC 103	26
27	REC 115, 116	20	1			0.7	0.7			1	20	REC 105	28
29	REC 118	20	1					0.7	0.7	1	20	REC 106, 106A	30
31	FANS	20	1	1.2	0.0					1	20	EQUIPMENT	32
33													34
35													36
37													38
39													40
41													42
Total Load:				8.1 kVA		6.8 kVA		6.8 kVA					
Total Amps:				68 A		56 A		56 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTS	4044 VA	125.00%	5055 VA		
RECEPTACLE	16720 VA	79.90%	13360 VA	Total Connected Load:	22 kVA
MOTOR/COOLING	0 VA	0.00%	0 VA	Total Est. Demand:	20 kVA
HEATING	0 VA	0.00%	0 VA	Total Conn.:	60 A
WATER HEATER	0 VA	0.00%	0 VA	Total Est. Demand:	54 A
EQUIPMENT	0 VA	0.00%	0 VA		
KITCHEN EQUIP.	0 VA	0.00%	0 VA		

Notes:

1. E.C. TO PROVIDE GFCI BREAKER

Branch Panel: P1														
Location: STOR. 429				Volts: 120/208 3P 4W				A.I.C. Rating: 10kA						
Supply From:				Phases: 3				Mains Type: Main Lug Only						
Mounting: Surface				Wires: 4				Mains Rating: 600 A						
Enclosure:				Listing:										
Type:														
CKT	Circuit Description		Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	P3		125	3	15.1	8.1					3	100	P2	2
3						13.5	6.8							4
5								13.5	6.8					
7														8
9														10
11														12
13														14
15														16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42
43														44
45														46
47														48
49														50
51														52
53														54
Total Load:					23.2 kVA		20.3 kVA		20.3 kVA					
Total Amps:					194 A		169 A		169 A					
Legend:														
Load Classification			Connected Load		Demand Factor		Estimated Demand		Panel Totals					
LIGHTS			4044 VA		125.00%		5055 VA							
RECEPTACLE			16720 VA		79.90%		13360 VA		Total Connected Load: 64 kVA					
MOTOR/COOLING			0 VA		0.00%		0 VA		Total Est. Demand: 62 kVA					
HEATING			0 VA		0.00%		0 VA		Total Conn.: 177 A					
WATER HEATER			0 VA		0.00%		0 VA		Total Est. Demand: 171 A					
EQUIPMENT			42120 VA		100.00%		42120 VA							
KITCHEN EQUIP.			0 VA		0.00%		0 VA							
Notes:														

Branch Panel: P3

Location:

Supply From: P1

Mounting: Surface

Enclosure: 1

Volts: 120/208 3P 4W

Phases: 3

Wires: 4

Listing:

A.I.C. Rating: 10kA

Mains Type: Main Lug Only

Mains Rating: 125 A

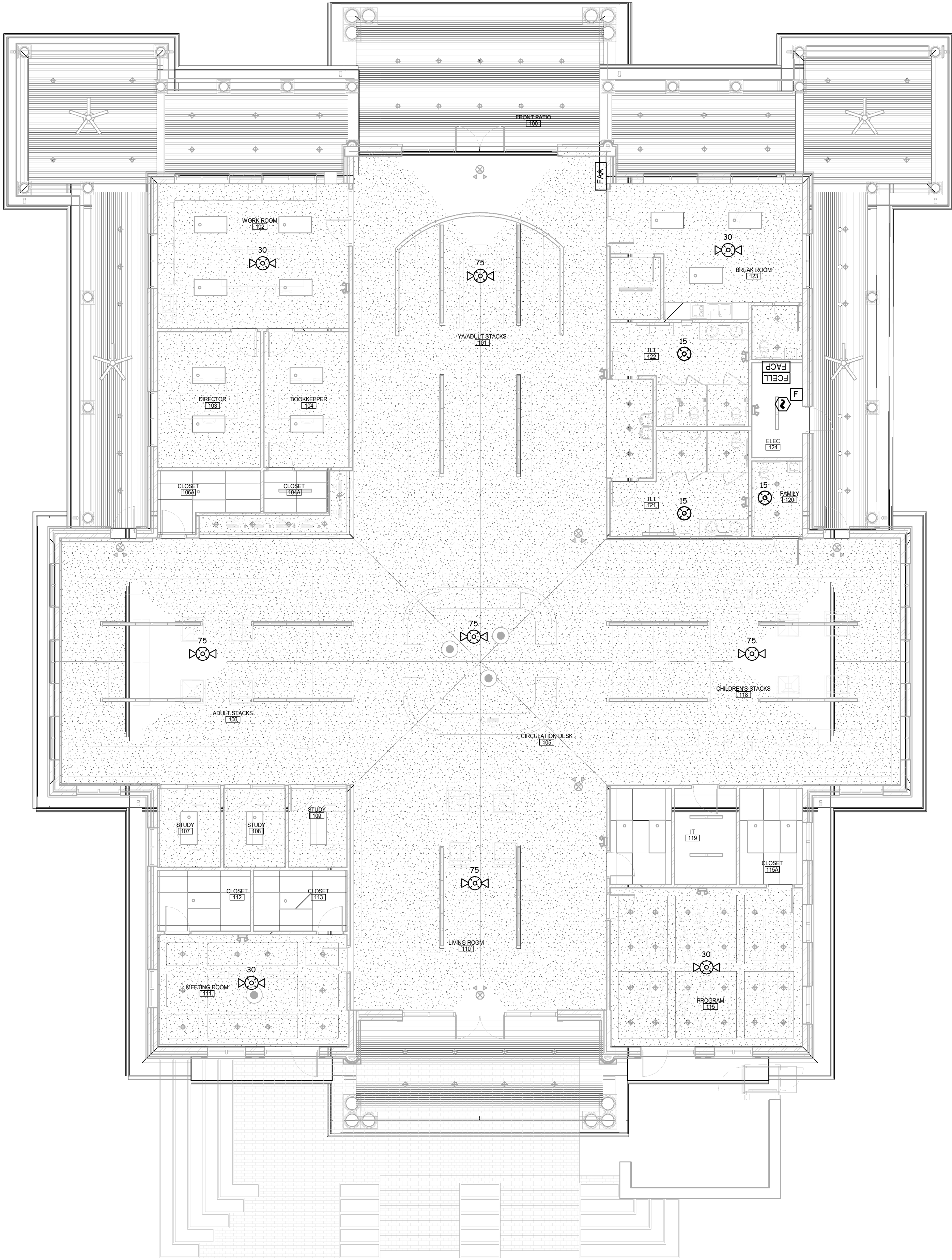
Type:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	DH-5	20	1	1.8	1.8			1	DH-7	2
3	CU-9	25	2		2.0	1.3				4
5						2.0	1.3	3	20 HP-1	6
7				1.3	1.3					8
9	HP-2	20	3		1.3	1.3				10
11						1.3	1.3	3	20 HP-3	12
13				1.3	1.3					14
15	HP-4	20	3		1.3	1.3				16
17						1.3	1.3	3	20 HP-5	18
19				1.3	1.3					20
21	HP-8	20	3		1.3	1.8				22
23						1.3	1.8	3	30 HP-6	24
25				1.8	1.8					26
27	HP-7	30	3		1.8					28
29						1.8				30
31										32
33										34
35										36
37										38
39										40
41										42
Total Load:				15.1 kVA	13.5 kVA	13.5 kVA				
Total Amps:				126 A	113 A	113 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTS	0 VA	0.00%	0 VA	Total Connected Load:	42 kVA
RECEPTACLE	0 VA	0.00%	0 VA		
MOTOR/COOLING	0 VA	0.00%	0 VA	Total Est. Demand:	42 kVA
HEATING	0 VA	0.00%	0 VA	Total Conn.:	117 A
WATER HEATER	0 VA	0.00%	0 VA	Total Est. Demand:	117 A
EQUIPMENT	42120 VA	100.00%	42120 VA		
KITCHEN EQUIP.	0 VA	0.00%	0 VA		

Notes:

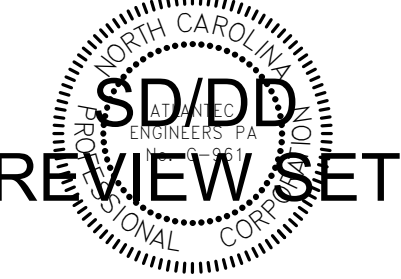


1
FA1.1
FIRE ALARM PLAN
1/8" = 1'-0"

NEW CONSTRUCTION FOR:

GIVEN MEMORIAL LIBRARY

VILLAGE OF PINEHURST
MAGNOLIA DRIVE, PINEHURST, NC



PRELIMINARY NOT FOR CONSTRUCTION



PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions	Description	Date
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Date	Project No.
9/27/24	22038
Drawn By	Sheet No.
SWM	FA1.1
Checked By	
DJW	

Sheet Title
FIRE ALARM PLAN