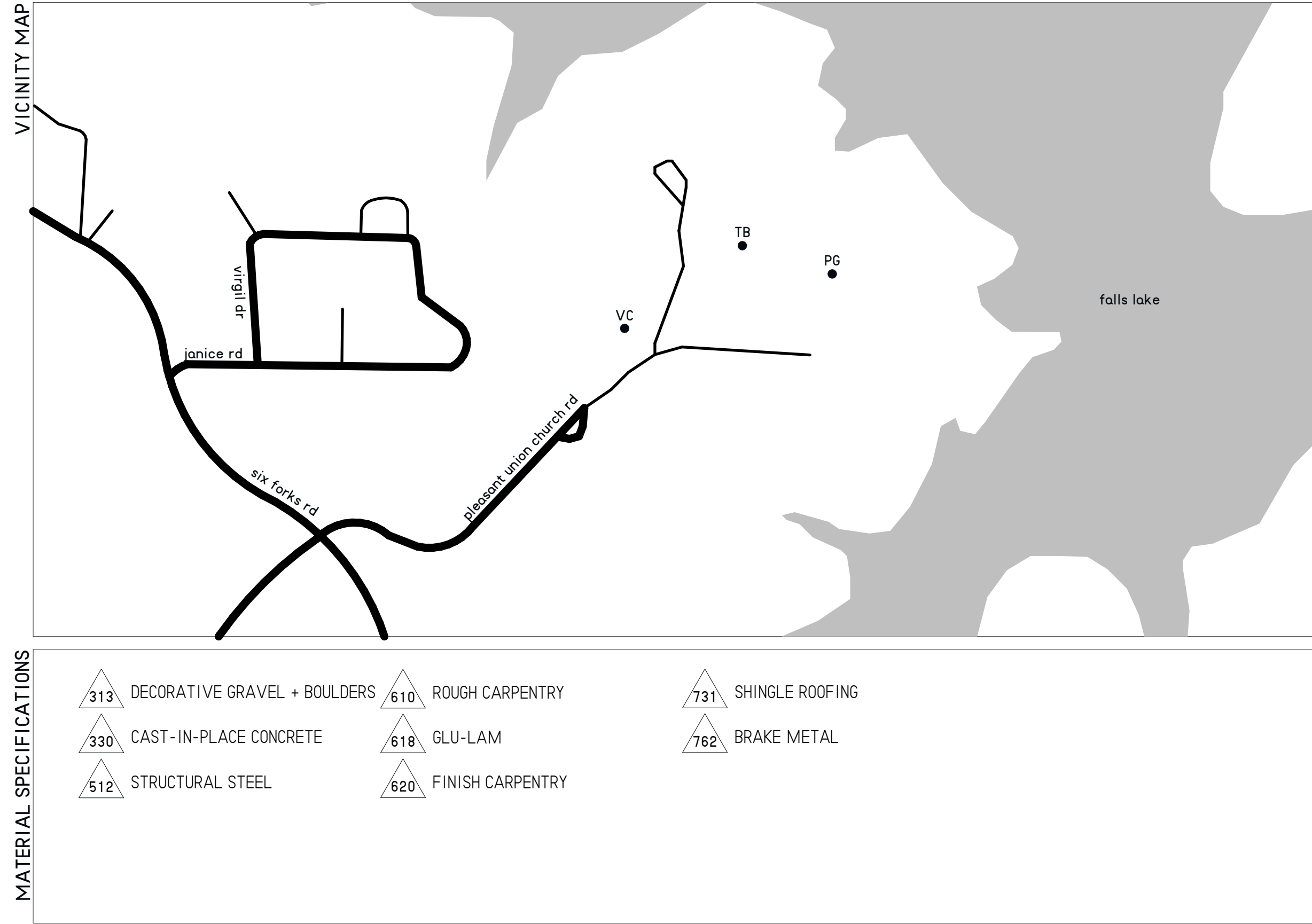
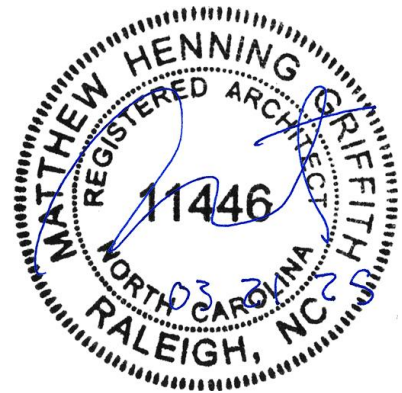




SHEET LIST	A0.1.PG	COVERSHEET	S1.0.PG	GENERAL STRUCTURAL NOTES	PROJECT CONTACT	OWNER: WAKE COUNTY PARKS RECREATION AND OPEN SPACE 3200 PLEASANT UNION CHURCH RD CONTACT: ERIC STAEHLE PHONE: 919 856 6369 EMAIL: ERIC.STAEHLE@WAKE.GOV	ABBREVIATIONS	@	at
	A1.1.PG	APPENDIX B (PG)	S1.1.PG	PLAYGROUND SHELTER FRAMING PLAN		<u>PRIME/LANDSCAPE ARCHITECT:</u> SURFACE 678 215 MORRIS STREET, SUITE 150 CONTACT: ERIC DAVIS PHONE: 919 282 9122 EMAIL: EDAVIS@SURFACE678.COM		AFF	above finish floor
	A1.2.PG	APPENDIX B (PG)	S2.1.PG	PLAYGROUND SHELTER DETAILS		<u>ARCHITECT:</u> IN SITU STUDIO 704 N PERSON STREET, RALEIGH NC 27604 CONTACT: MATT GRIFFITH PHONE: 919 397 3949 EMAIL: MATT@INSITUSTUDIO.US		ALUM	aluminum
	A2.0.PG	SHELTER ARCHITECTURAL SITE PLAN	E0.01	ELECTRICAL LEGEND		<u>STRUCTURAL ENGINEER:</u> LYSAGHT & ASSOCIATES 120 ST MARY STREET CONTACT: CHUCK LYSAGHT PHONE: 919 833 0495 EMAIL: CHUCK@LYSAGHTASSOCIATES.COM		B0	bottom of
	A2.1.PG	PG SHELTER FLOOR PLAN	E0.02	ELECTRICAL GEN. NOTES & FIXTURE SCHEDULE		<u>SYSTEMS ENGINEER:</u> SIGMA ES 5909 FALLS OF NEUSE RD, SUITE 101 CONTACT: REGGIE ADAMS PHONE: 919 840 9300 EMAIL: RADAMS@SIGMAES.COM		CIP	cast-in-place
	A2.2.PG	PG SHELTER RCP + ROOF PLAN	E1.00	OVERALL ELECTRICAL SITE PLAN		<u>CIVIL ENGINEER:</u> THE WOOTEN COMPANY 120 N. BOYLAN AVE CONTACT: ANA WADSWORTH PHONE: 919 828 0531 EMAIL: AWADSWORTH@THEWOOTENCOMPANY.COM		CL	centerline
	A3.1.PG	PG SHELTER ELEVATIONS	E1.01	ENLARGED ELECTRICAL SITE PLAN				CJ	control/construction joint
	A4.1.PG	PG SHELTER SECTION	E1.02	ELECTRICAL DETAILS				CPT	common path of travel
			E1.03	ELECTRICAL DETAILS				EQ	equal
			E2.00	ELECTRICAL POWER PLAN				FFE	finished floor elevation
		E5.00	ELECTRICAL DETAILS		FIN	finish			
		E5.01	ELECTRICAL DETAILS		F0	face of			
						GA	gauge		
						GALV	galvanized		
						LOD	limits of disturbance		
						MAX	maximum		
						MED	maximum egress distance		
						MIN	minimum		
						NIC	not in contract		
						NTS	not to scale		
						OC	on center		
						PG	playground		
						PTD	painted		
						REF	reference		
						REV	reverse		
						SIM	similar		
						SF	square feet		
						SS	stainless steel		
						TBF	tee-ball field		
						TO	top of		
						TPF-SF	tree protection fence silt fence		
						TYP	typical		
						UON	unless otherwise noted		
						VC	visitors center		
						VIF	verify in field		



2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Blue Jay Point County Park Improvements (Playground Shelter)
Address: 3200 Pleasant Union Church Road, Raleigh, NC Zip Code 27614
Owner/Authorized Agent: in situ studio Phone # (919) 397 - 3949 E-Mail matt@insitustudio.us
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City, Raleigh ☒ County, Wake ☒ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	in situ studio	Matthew Griffith	11446	(919)397-3949	matt@insitustudio.us
Civil	The Wooten Company	Ana Wadsworth	042389	(919)818-0531	awadsworth@thewootencompany.com
Electrical	Sigma Engineered Solutions	Reginald Adams	19659	(919)840-9300	radams@sigmas.com
Fire Alarm	Sigma Engineered Solutions	Reginald Adams	19659	(919)840-9300	radams@sigmas.com
Plumbing	Sigma Engineered Solutions	Paul Romiti	026581	(919)840-9300	promiti@sigmas.com
Mechanical	Sigma Engineered Solutions	Paul Romiti	026581	(919)840-9300	promiti@sigmas.com
Sprinkler-Standpipe	NA	NA	NA	NA	NA
Structural	Lysaght & Associates	Chuck Lysaght	7929	(919)833-0495	chuck@lysaghtassociates.com
Retaining Walls >5' High	NA	NA	NA	NA	NA
Landscape Arch.	Surface 678 (Prime)	Eric Davis	C-098	(919)419-1199	edavis@surface678.com

(*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) _____ CURRENT OCCUPANCY(S) (Ch. 3): _____
RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (Ch. 3): _____

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

BASIC BUILDING DATA

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

2018 NC Administrative Code and Policies

Revised 6/15/2020

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor	0	1,593 (open air)	1,593 (open air)
Basement			
TOTAL	0	1,593 (open air)	1,593 (open air)

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 ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): NA

Incidental Uses (Table 509): NA

Special Uses (Chapter 4 – List Code Sections): NA

Special Provisions: (Chapter 5 – List Code Sections): NA

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

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

☐ Separated Use (508.4) - 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.

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

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Revised 6/15/2020

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	unlimited	100%

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 #: NA (open air structure) _____

- ☐ 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 sign locations (1013)
- ☐ 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

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STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³
1	Main Level	1,593 (open air)	6,000	75%	10,500

- ¹ Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 159'-9" (F)
b. Total Building Perimeter = 159'-9" (P)
c. Ratio (F/P) = 1 (F/P)
d. W = Minimum width of public way = > 30' (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ 75 (%)

² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).

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

⁵ 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	40'	21'	NA
Building Height in Stories (Table 504.4) ³	1	1	NA

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

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

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

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ACCESSIBLE DWELLING UNITS (SECTION 1107)	
NA	

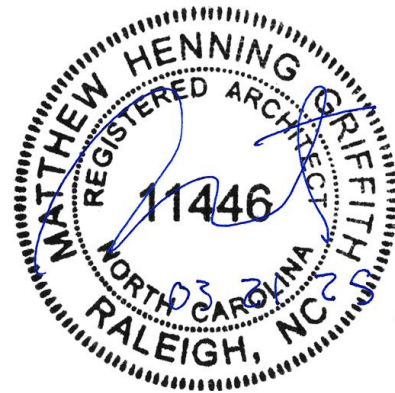
ACCESSIBLE PARKING (SECTION 1106)	
REFER TO LANDSCAPE DRAWINGS FOR PARKING REQUIREMENTS	

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)											
USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G	OPEN AIR STRUCTURE DOES NOT REQUIRE NEW FIXTURES									
	NEW										
	REQ'D										

SPECIAL APPROVALS

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

NA



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ENERGY SUMMARY

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

Existing building 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 source here) _____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylight: _____

Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

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

Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

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 category of unit: _____
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Is) 1.0
Seismic (Ie) 1.0

Live Loads: Roof 20 psf
Mezzanine NA psf
Floor 50 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7)
Exposure Category 1.0

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D

Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration Ss 14.7 %g Si 7.4 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system ☐ 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) _____ psf
Presumptive Bearing capacity 2,000 psf
Pile size, type, and capacity _____

2018 NC Administrative Code and Policies

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☒ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

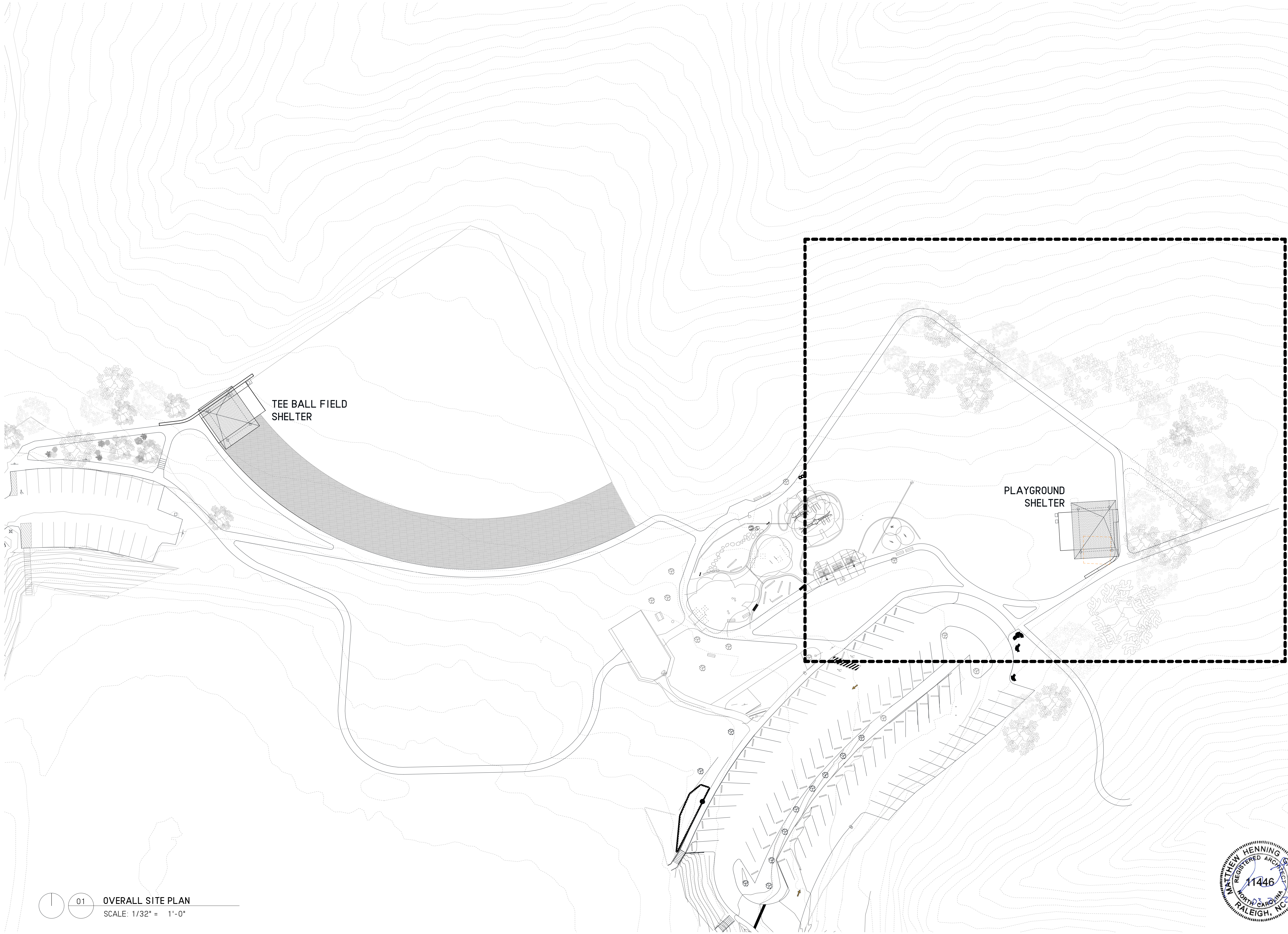
Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 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

2018 NC Administrative Code and Policies

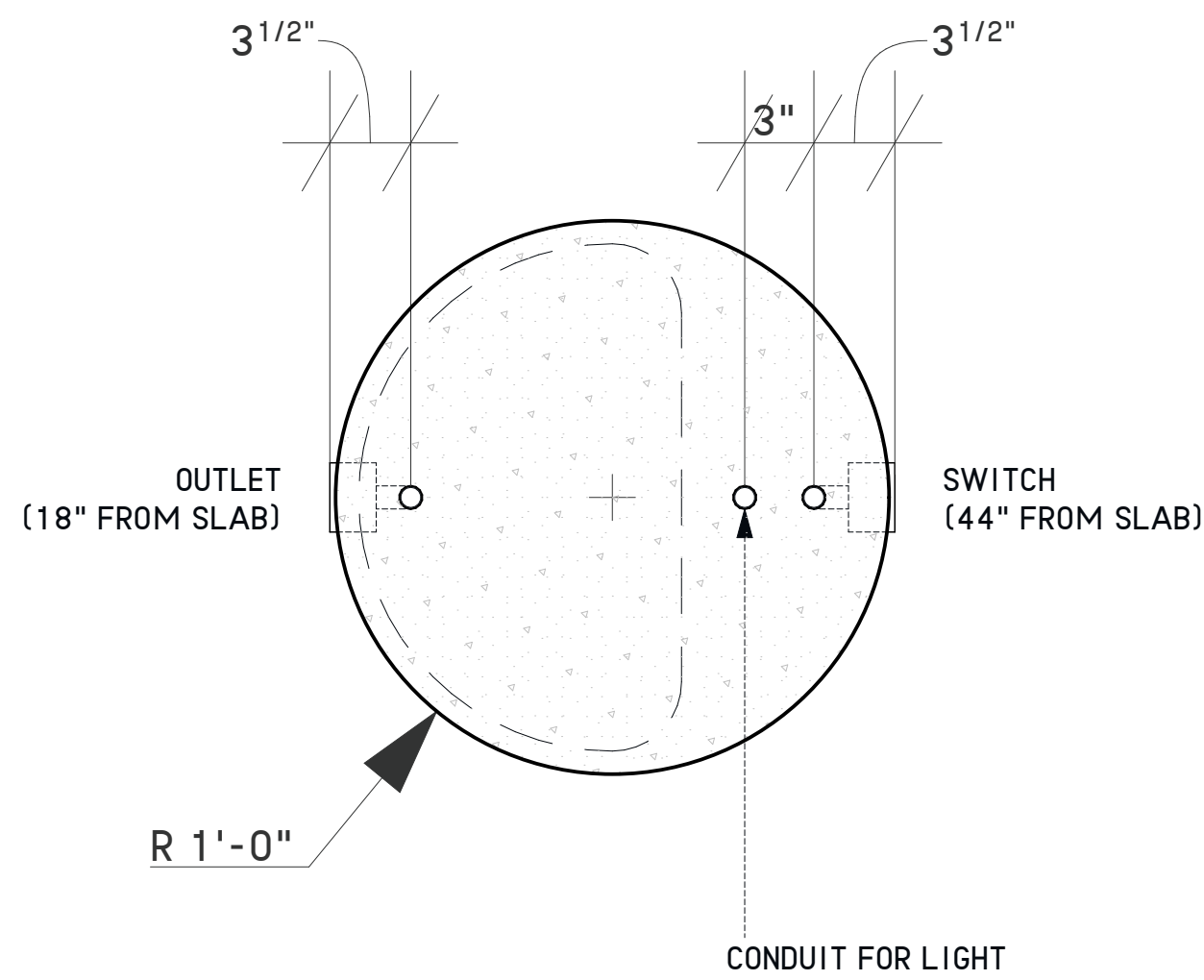
Revised 6/15/2020



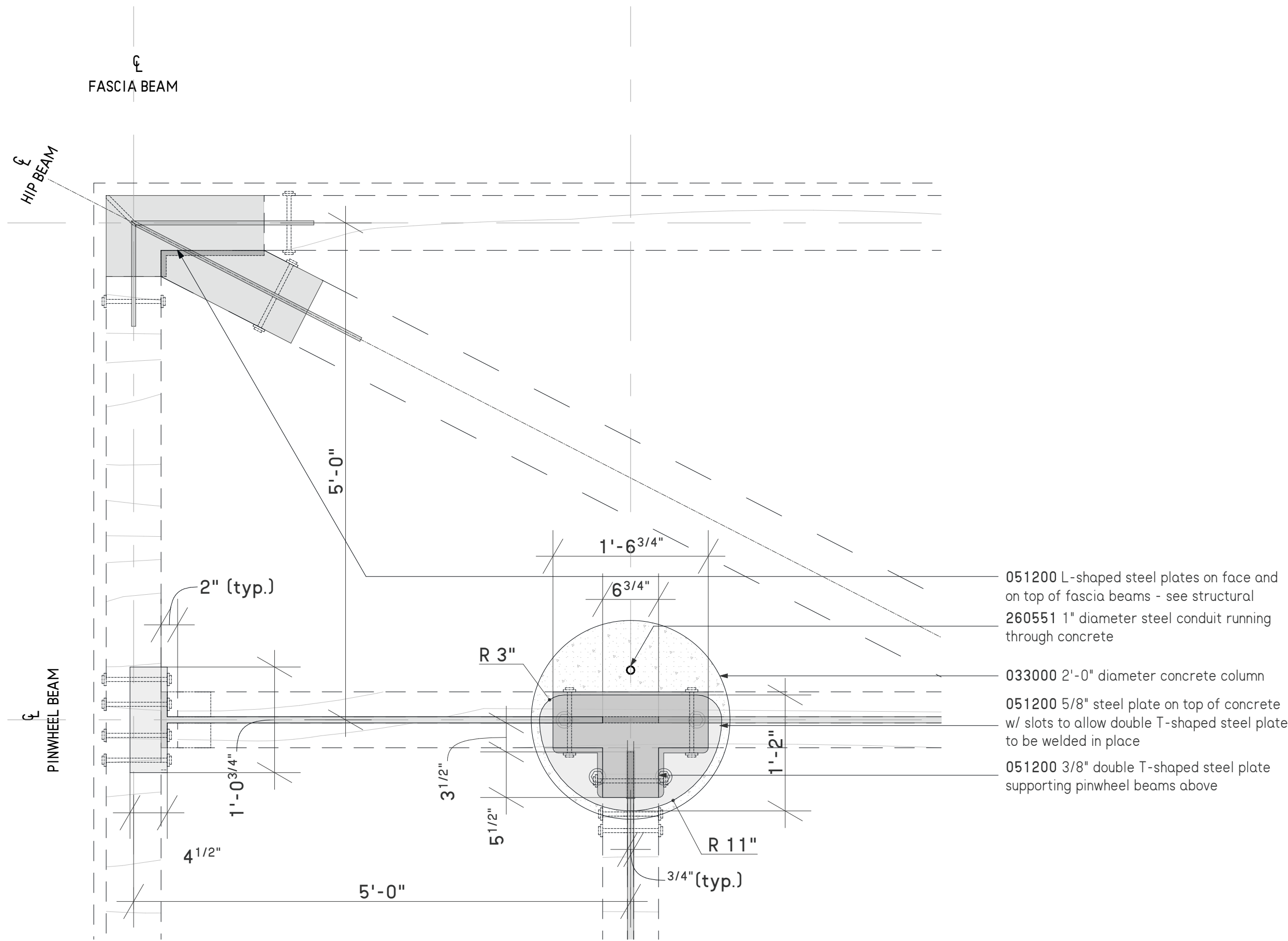


01 OVERALL SITE PLAN
SCALE: 1/32" = 1'-0"

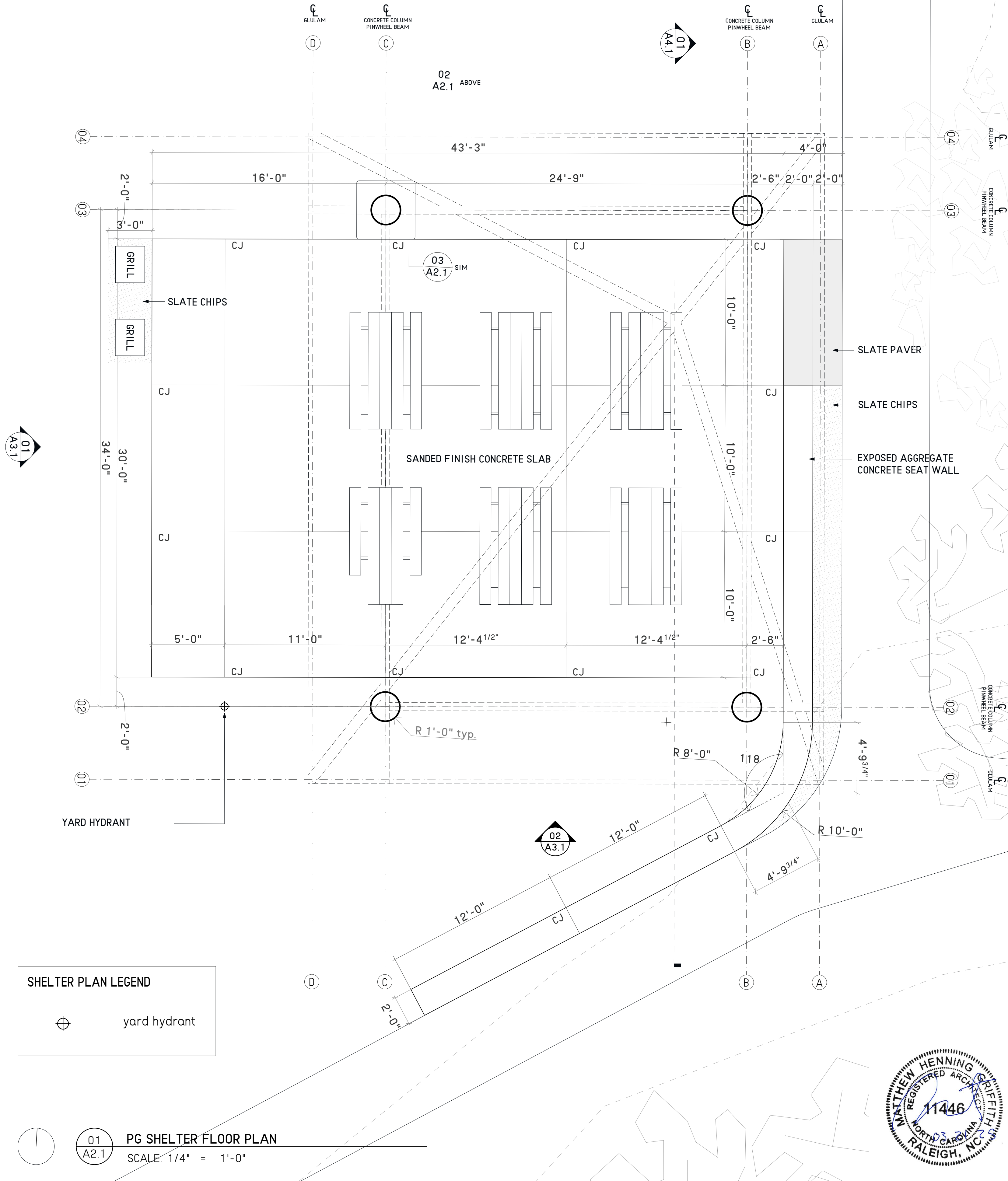




03 ELECTRICAL DETAIL AT COLUMN
SCALE: 1 1/2" = 1'-0"

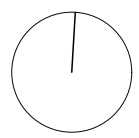


02 COLUMN PLAN DETAIL
SCALE: 1" = 1'-0"



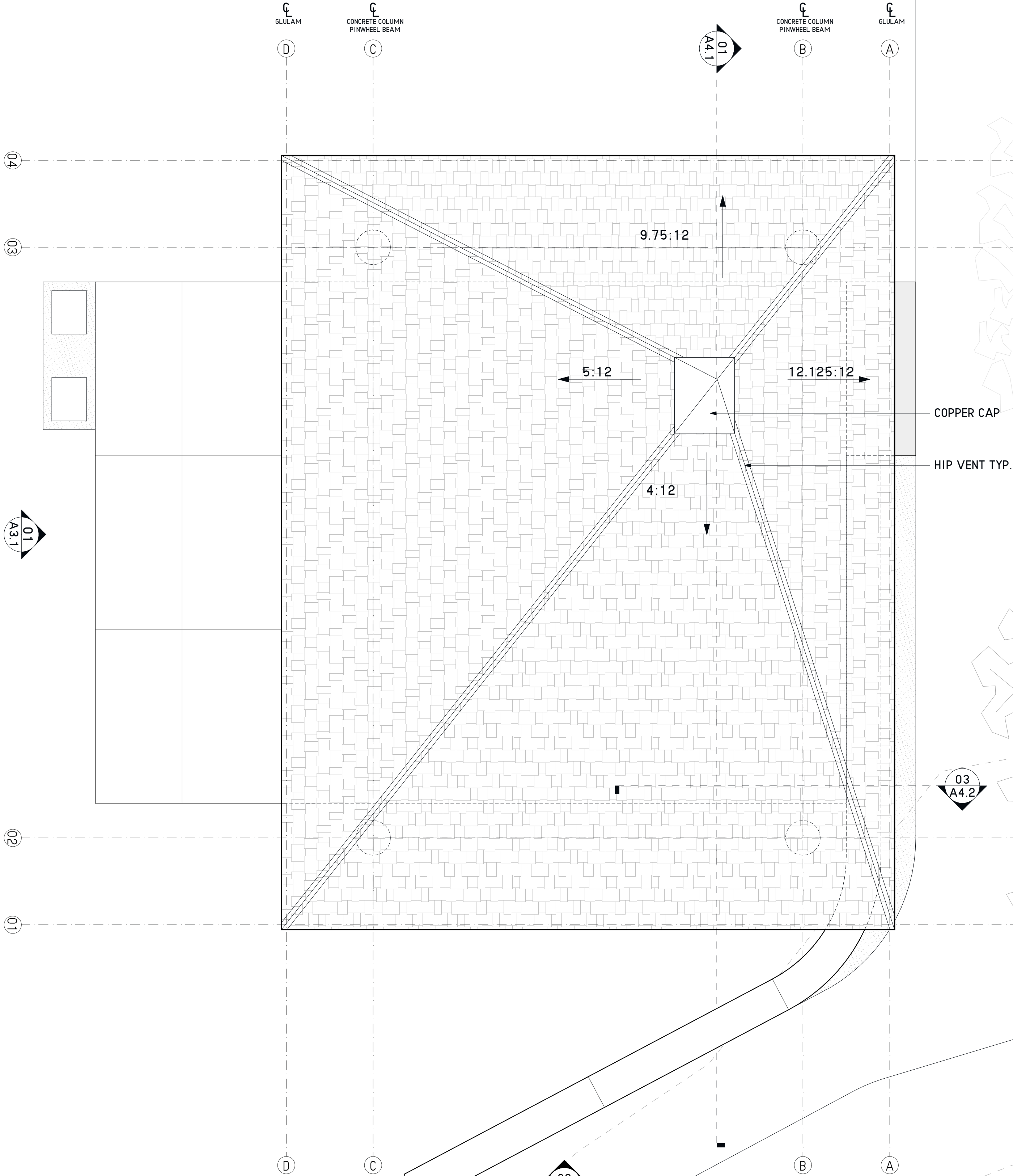
01 PG SHELTER FLOOR PLAN
SCALE: 1/4" = 1'-0"





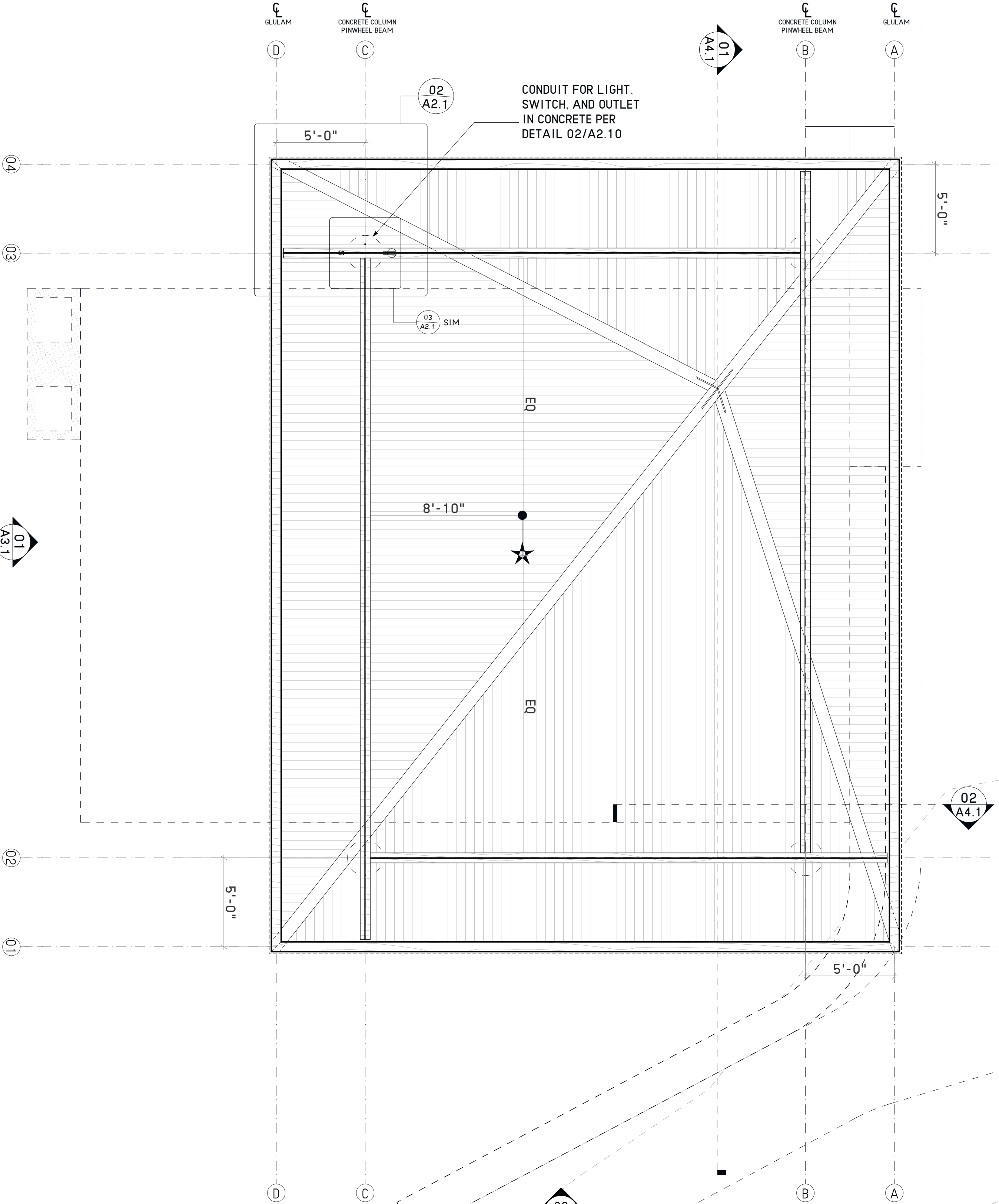
02

PG SHELTER ROOF PLAN
SCALE: 1/4" = 1'-0"



01

PG SHELTER RCP
SCALE: 1/4" = 1'-0"



SHELTER RCP LEGEND	
	pendant light
	outlet
	switch



A2.2.PG

PG SHELTER RCP + ROOF
PLAN

BLUE JAY POINT COUNTY PARK
3240 PLEASANT UNION CHURCH RD
RALEIGH, NC 27614

03.21.25
KW - JF
scale: as noted

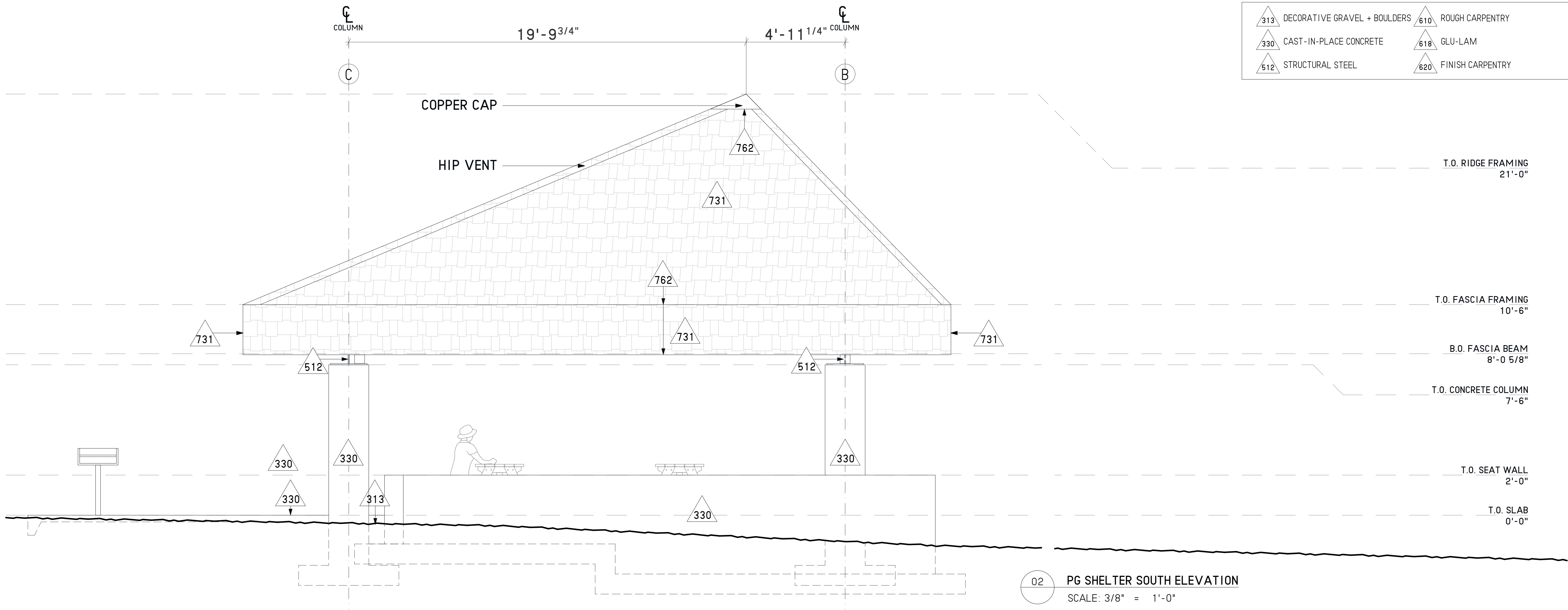
CD

Consultants
LA
Civil
Structural
PME

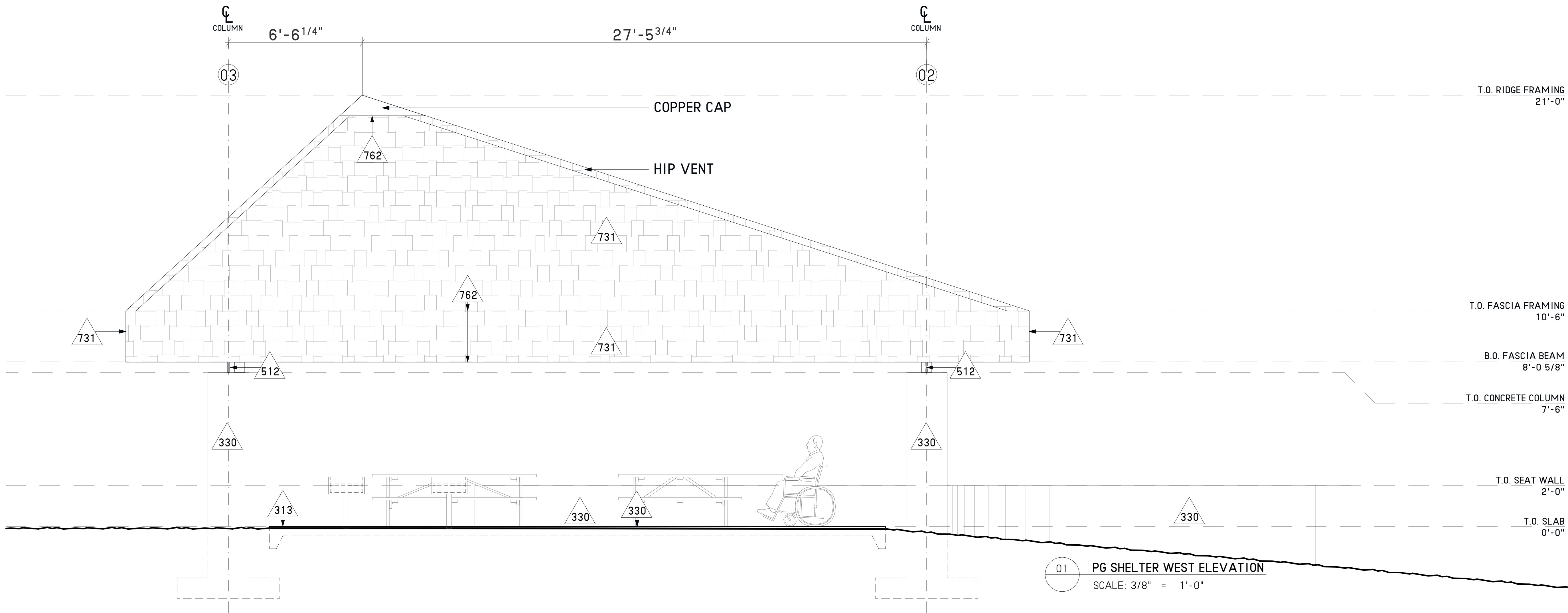
Surface 878 (prime)
The Wooden Company
Lysaght & Associates
Sigma Engineered Solutions

704 N Person St
Raleigh NC 27604
www.institutudio.us

in situ studio

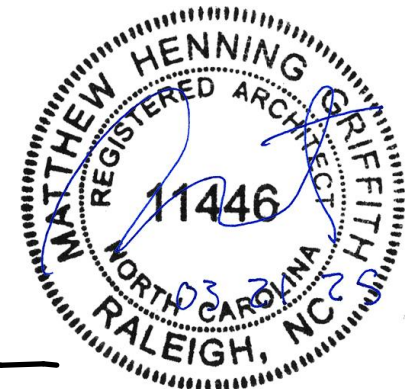


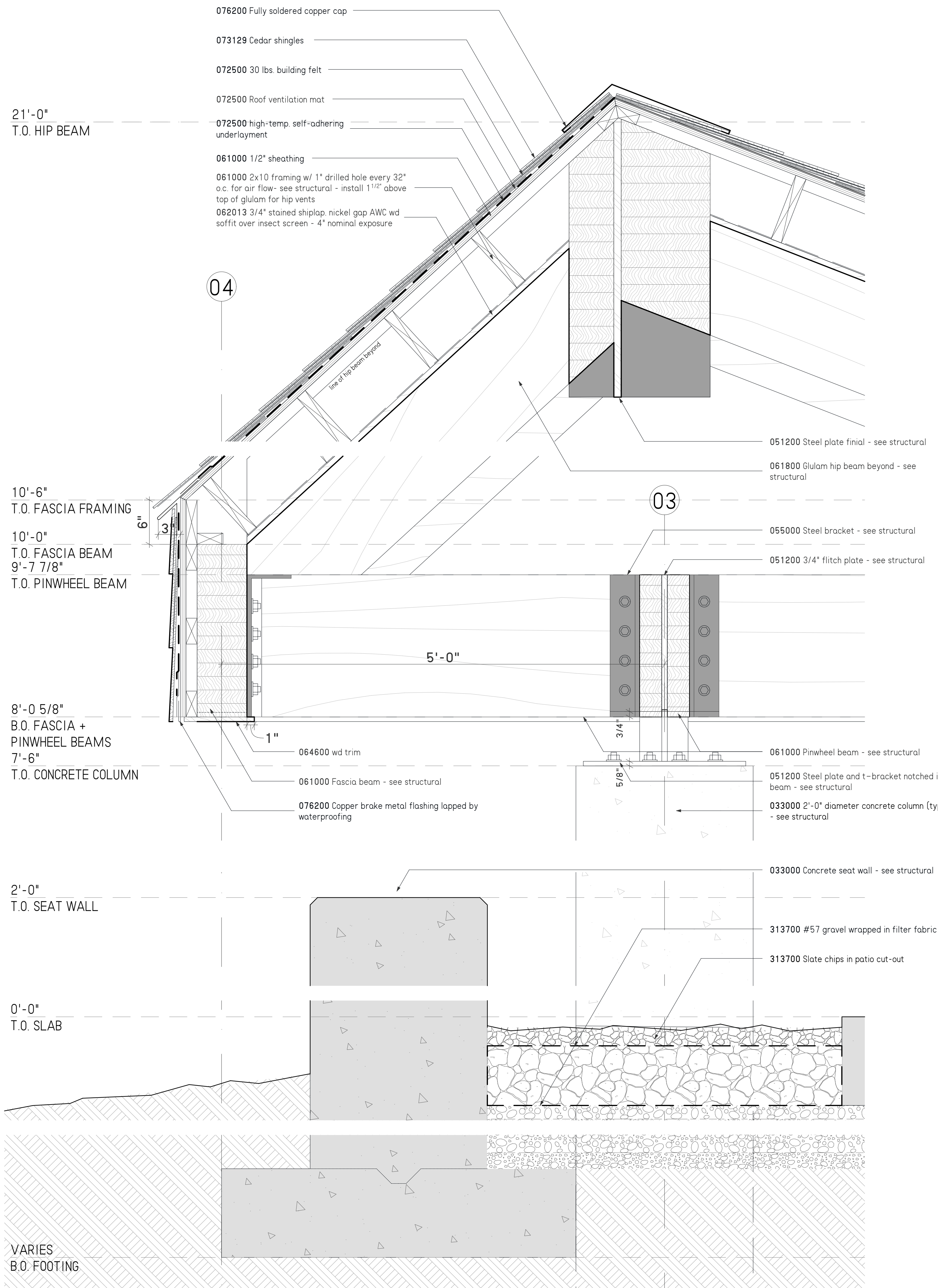
02 PG SHELTER SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



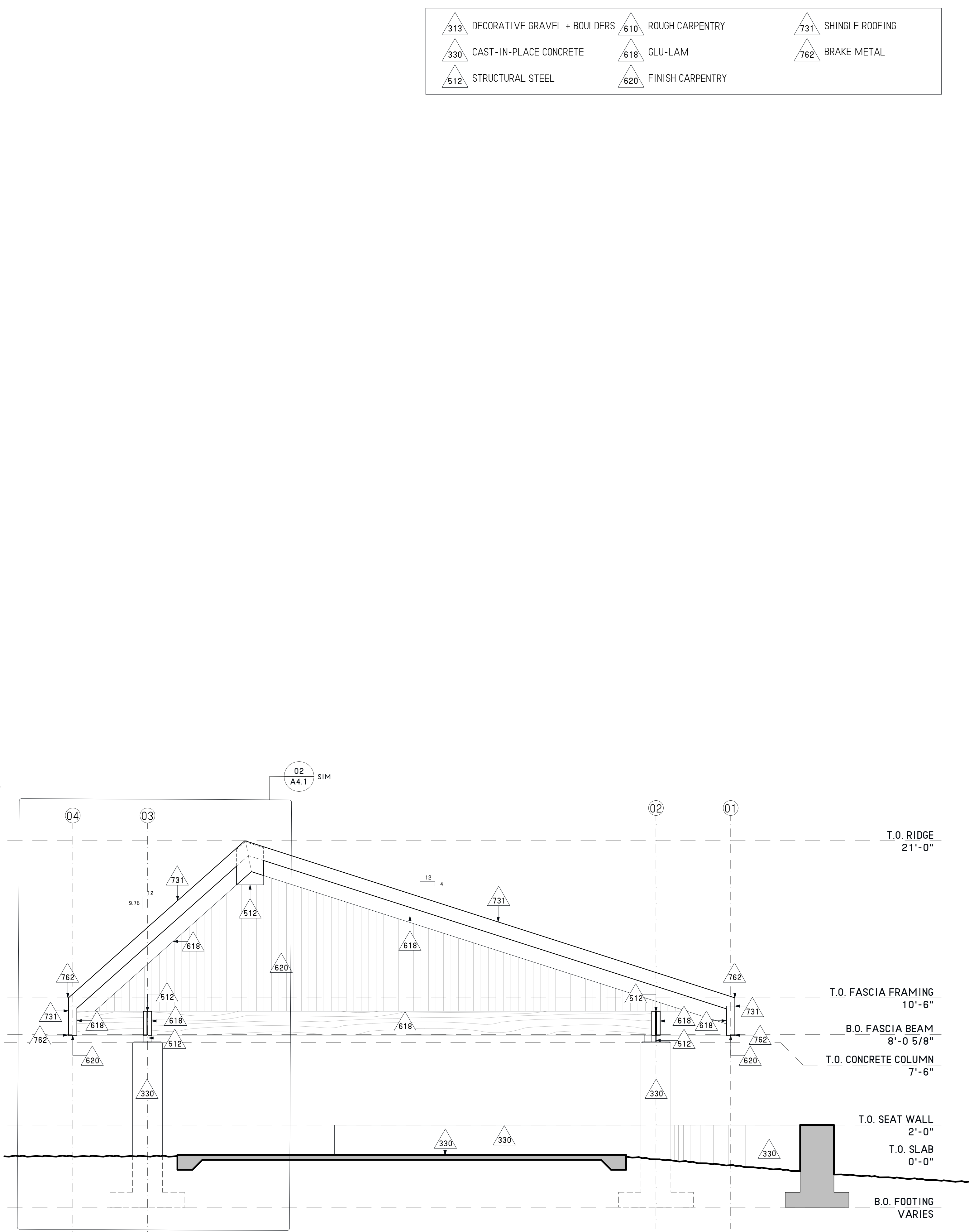
01 PG SHELTER WEST ELEVATION
SCALE: 3/8" = 1'-0"

313 DECORATIVE GRAVEL + BOULDERS	610 ROUGH CARPENTRY	731 SHINGLE ROOFING
330 CAST-IN-PLACE CONCRETE	618 GLU-LAM	762 BRAKE METAL
512 STRUCTURAL STEEL	620 FINISH CARPENTRY	





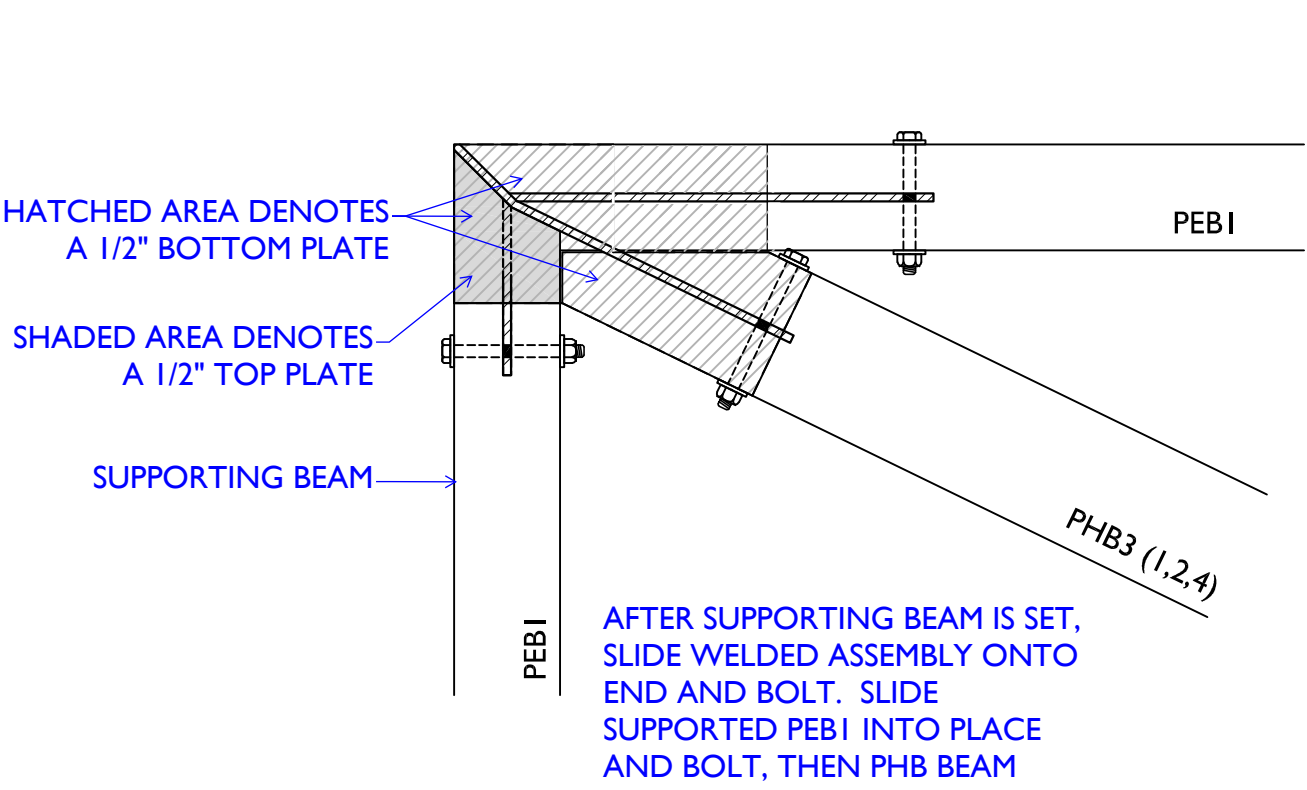
02 RIDGE SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



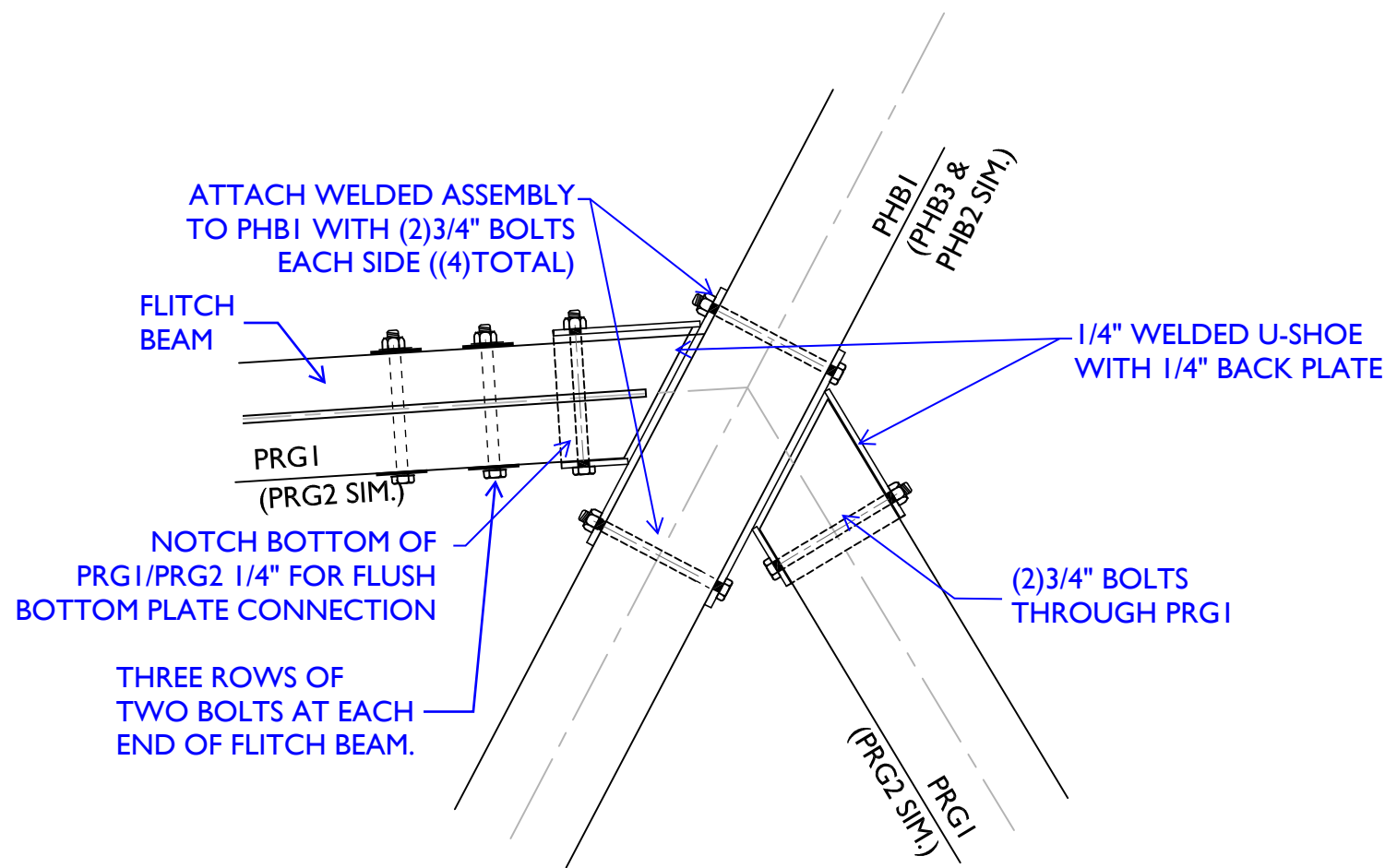
01 PG SHELTER SECTION
SCALE: 1/4" = 1'-0"

313 DECORATIVE GRAVEL + BOULDERS	610 ROUGH CARPENTRY	731 SHINGLE ROOFING
330 CAST-IN-PLACE CONCRETE	618 GLU-LAM	762 BRAKE METAL
512 STRUCTURAL STEEL	620 FINISH CARPENTRY	





PHB CONNECTION #2



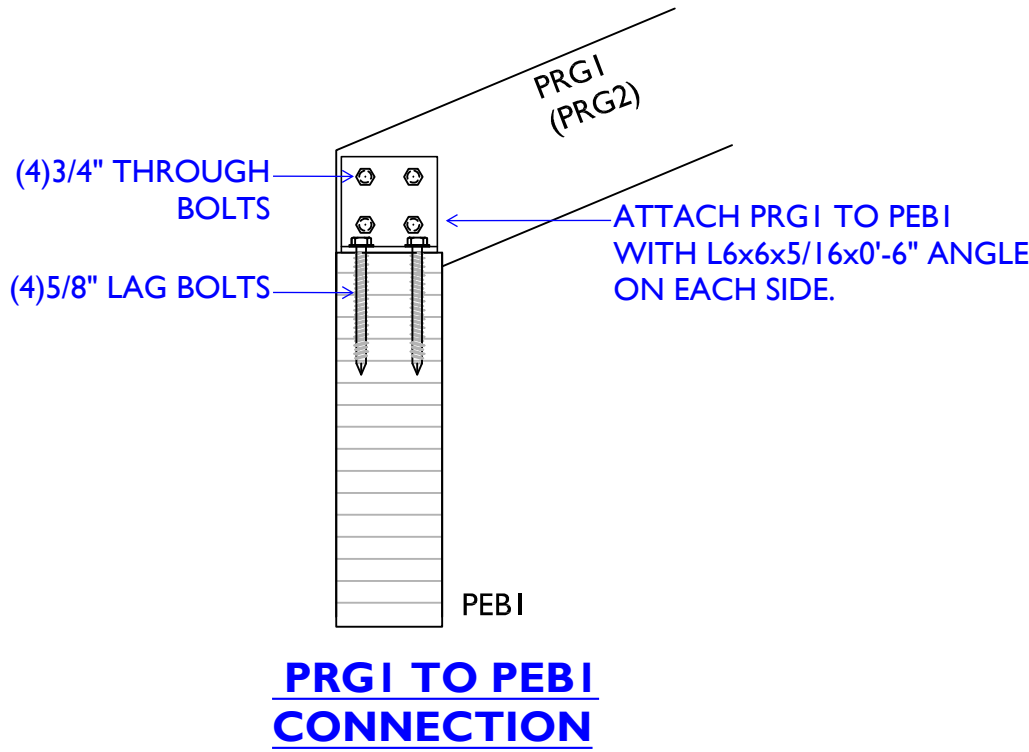
PRG1 CONNECTION

FOOTING SCHEDULE			
MK#	SIZE	REINFORCING	NOTES
F5.0	5'-0" X 5'-0" X 12"	#6 BARS @ 12" O.C. EA WAY	SPREAD FOOTING

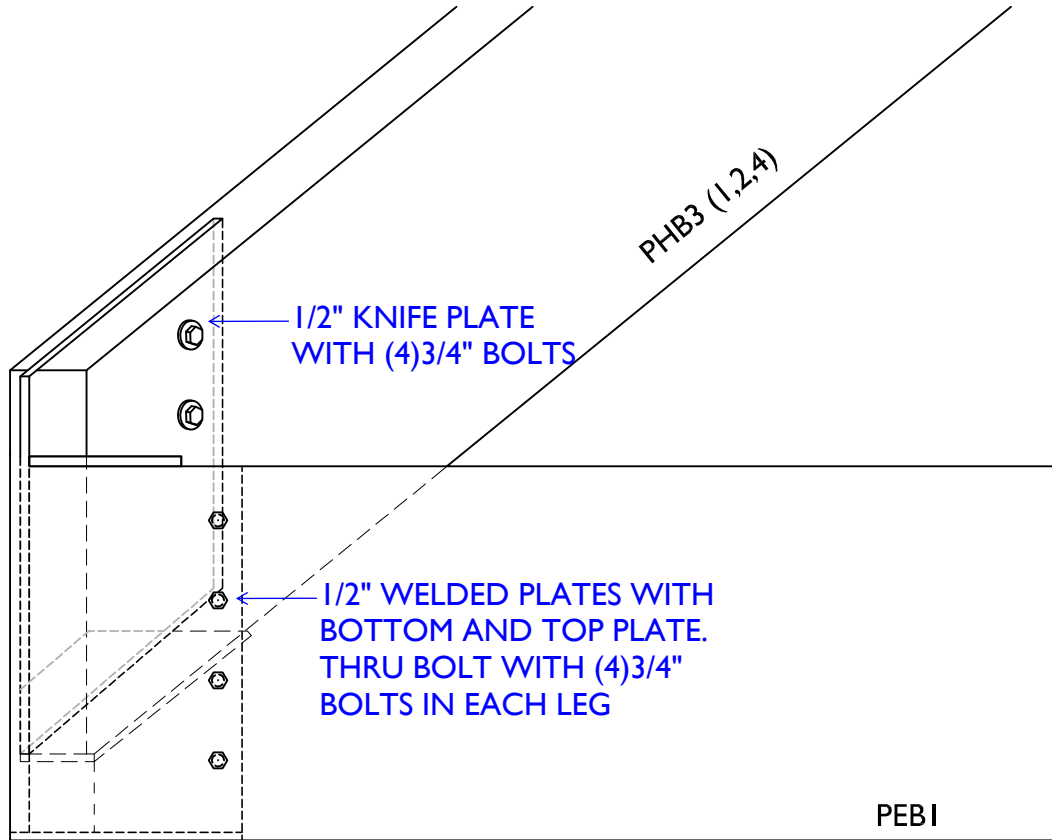
NOTES
1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FOOTING.

PLAYGROUND SHELTER FRAMING SCHEDULE					
MK#	SIZE	MATERIAL	GRADE	NOTE	
RJI	2 X 10	S-P-F	#2	1	
PHB1	8.5 X 24.75	GLULAM	26F-V4	2	
PHB2	8.5 X 20.625	GLULAM	26F-V4	2	
PHB3	8.5 X 22	GLULAM	24F-V8	2	
PHB4	8.5 X 22	GLULAM	24F-V8	2	
PPB1	(2) 3 X 19.25 + 3/4" X 18.5" STEEL PLATE	GLULAM + STEEL	26F-V4 + 50KSI	2, 3, 4	
PRG1	(2) 3 X 9.25 + 3/4" X 9" STEEL PLATE	GLULAM + STEEL	26F-V4 + 50KSI	2, 3, 4	
PRG2	6.625 X 9.25	GLULAM	24F-V8	2	
PEB1	6.625 X 23.375	GLULAM	24F-V8	2	

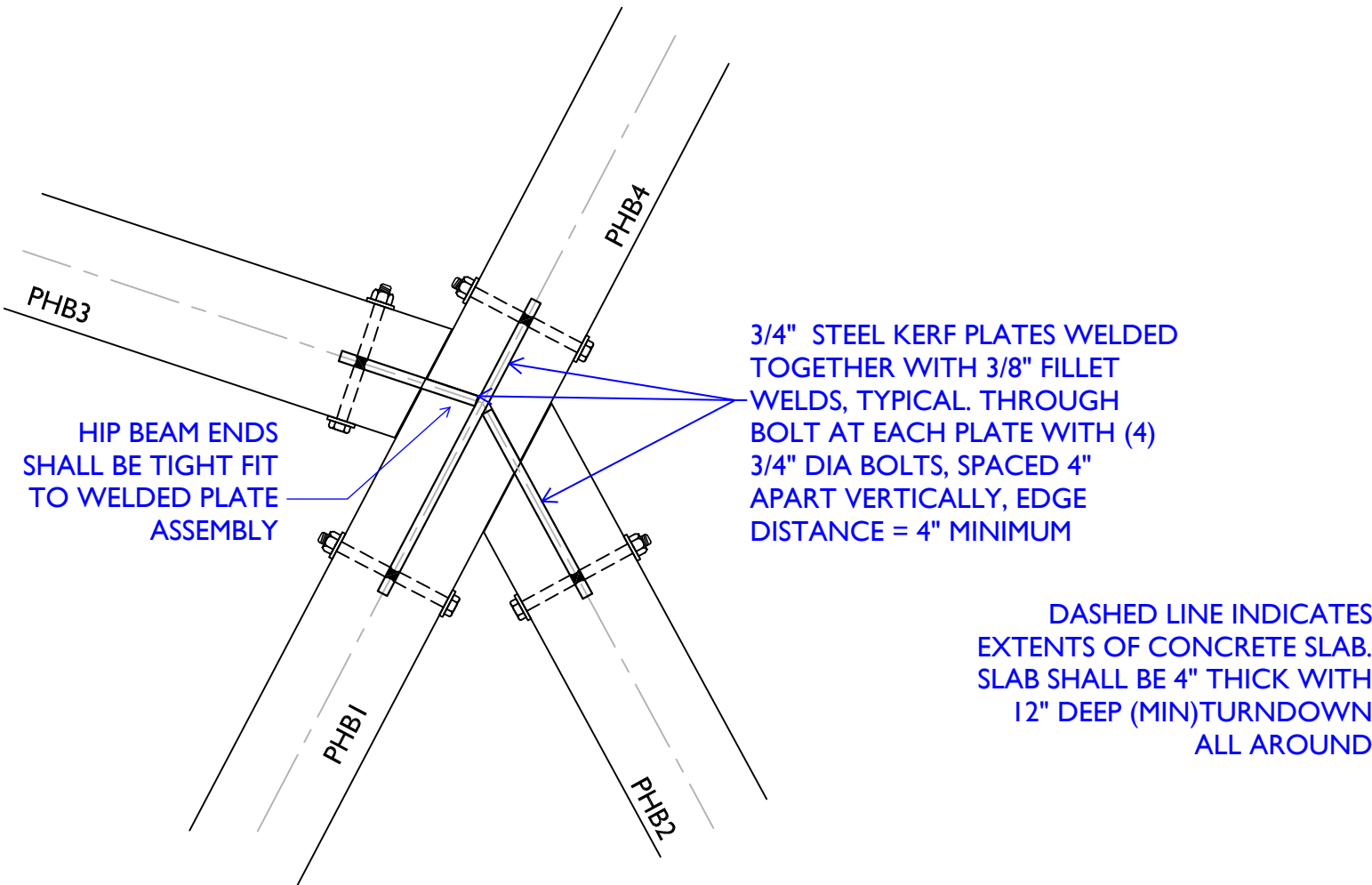
NOTES
1. SIZE SHOWN IS NOMINAL
2. SIZE SHOWN IS ACTUAL
3. FLITCH BEAMS SHALL BE ATTACHED TOGETHER WITH 5/8" DIAMETER BOLTS AT 12" O.C. STAGGERED TOP AND BOTTOM WITH (3) ROWS OF (2) BOLTS AT EACH END.
4. STEEL FLITCH PLATE SHALL BE SET FLUSH WITH TOP OF GLULAM BEAM.



PRG1 TO PEB1 CONNECTION



PHB CONNECTION #1

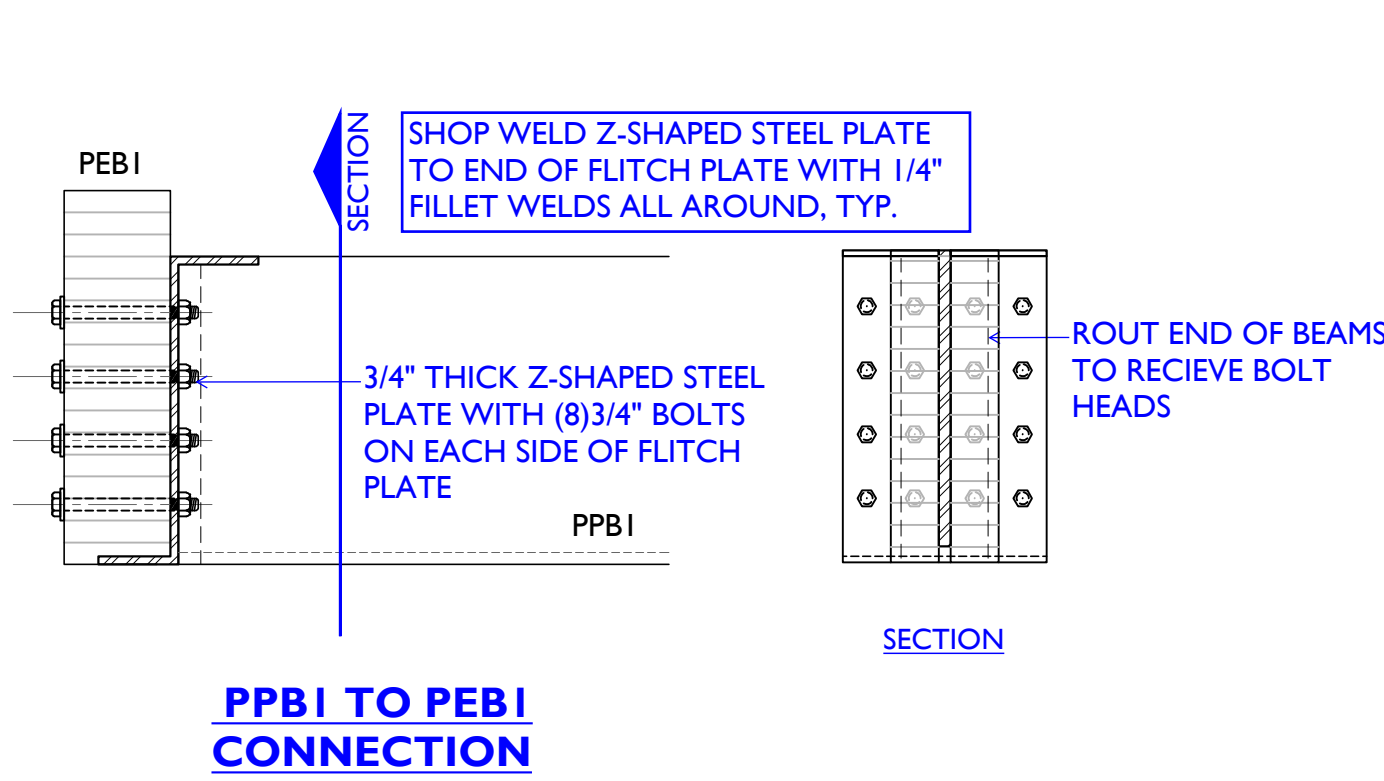


RIDGE CONNECTION

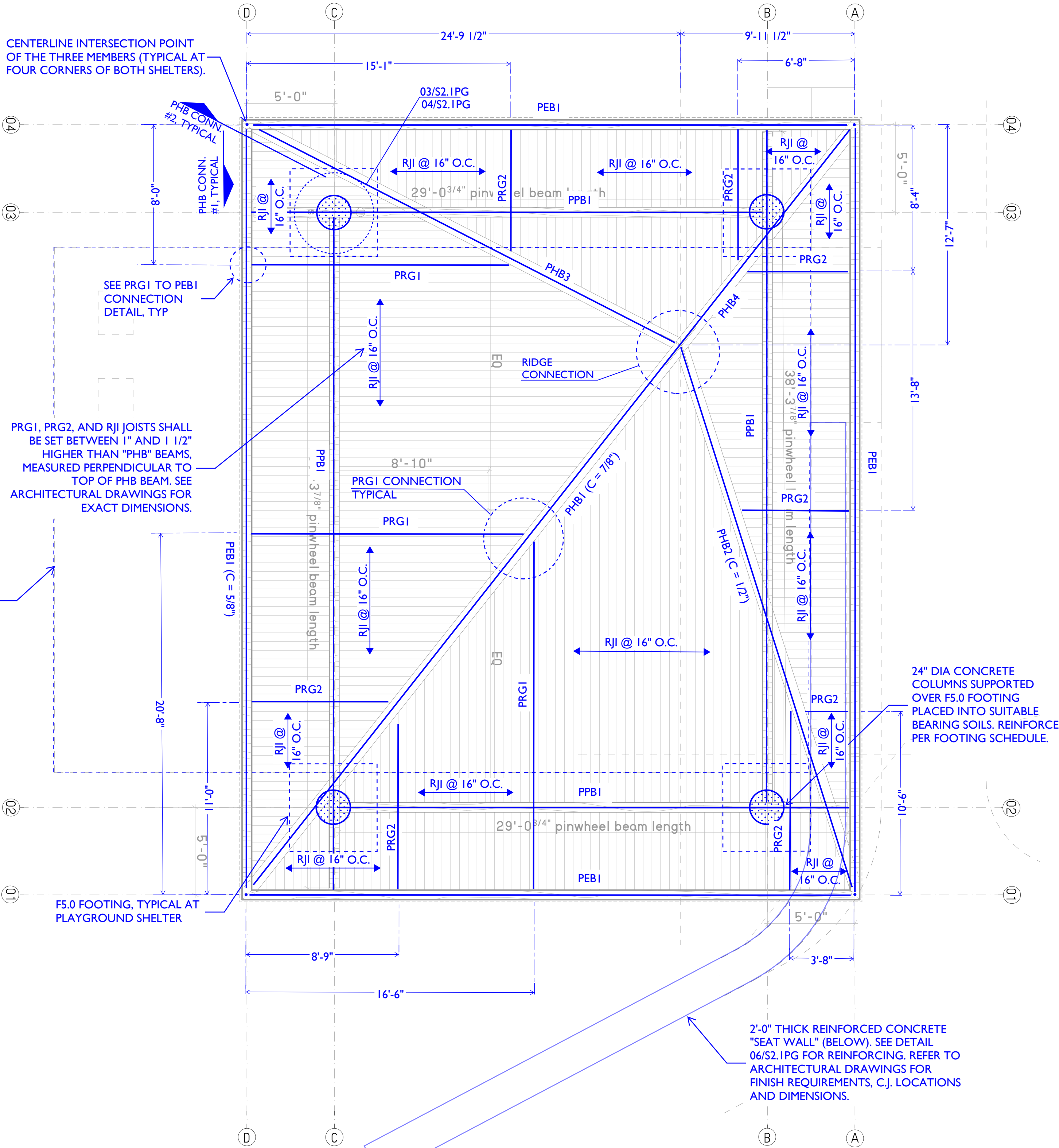
GLUE-LAMINATED ROOF FRAMING NOTES

- USE APA RATED SHEATHING, INSTALLED OVER 2X ROOF JOISTS. SHEATHING IS 32/16, 5/8" MINIMUM THICKNESS. USE 8d NAILS AT 6" OC ALONG THE PANEL EDGES AND 12" OC ALONG INTERMEDIATE SUPPORTS.
- ALL GLULAM MEMBERS SHALL BE SOUTHERN PINE, MANUFACTURED IN ACCORDANCE WITH ANSI A190.1-2017 AND ANSI I17-2020.
- ATTACH RJI JOISTS TO HIP BEAMS WITH (3) 1/4" X 6" LONG SIMPSON SDS OR TIMBERLOK SCREWS, TOE-SCREWED FROM JOISTS TO HIP WITH MINIMUM PENETRATION OF 1.5" INTO JOIST AND 4" INTO HIP BEAM. ATTACH JOIST TO RGI WITH SIMPSON "LUS210" HANGERS OR "L90" ANGLES. ANGLES SHALL BE INSTALLED ON LONG FACE OF JOIST FACING THE EAVE.
- GLULAM FABRICATOR SHALL SUBMIT SEALED SHOP DRAWINGS AND CALCULATIONS FOR ALL STEEL CONNECTION COMPONENTS PRIOR TO FABRICATION.
- STEEL COMPONENTS ARE "A36" STEEL U.N.O. ALL STEEL FLITCH PLATES ARE TO BE 50 KSI. ALL WELDS SHALL COMPLY WITH AWS STANDARDS. ALL BOLTS SHALL BE GRADE A307 OR BETTER U.N.O.

END REACTIONS		
RyL	RyS	
0.3	0.3	
8.4	7.0	
4.9	4.4	
4.9	4.3	
2.6	2.2	
26.0	-2.0	
4.4	3.7	
2.9	2.5	
18.3	-1.0	



PPB1 TO PEB1 CONNECTION



PLAYGROUND SHELTER FRAMING PLAN

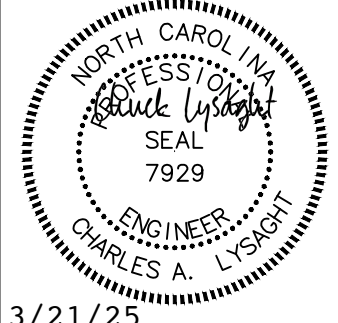
SCALE: 1/4" = 1'-0"
SEE NEXT SHEET FOR VERTICAL GEOMETRY SET UP.

NOTE TO CONNECTION DESIGNER:
COMPRESSIVE FORCES (ASD) AT HIP BEAMS ARE AS FOLLOWS:

PHB1: 8.2 KIPS
PHB2: 15.9 KIPS
PHB3: 13.9 KIPS
PHB4: 20.8 KIPS

TENSION FORCES (ASD) AT EAVE BEAMS ARE AS FOLLOWS:

PEB1: 13.9



3/21/25

120 St. Mary's Street
Raleigh, NC 27605
919.833.0495
lysaghtassociates.com
Firm No. C-00621



DATE	DESCRIPTION	REV#

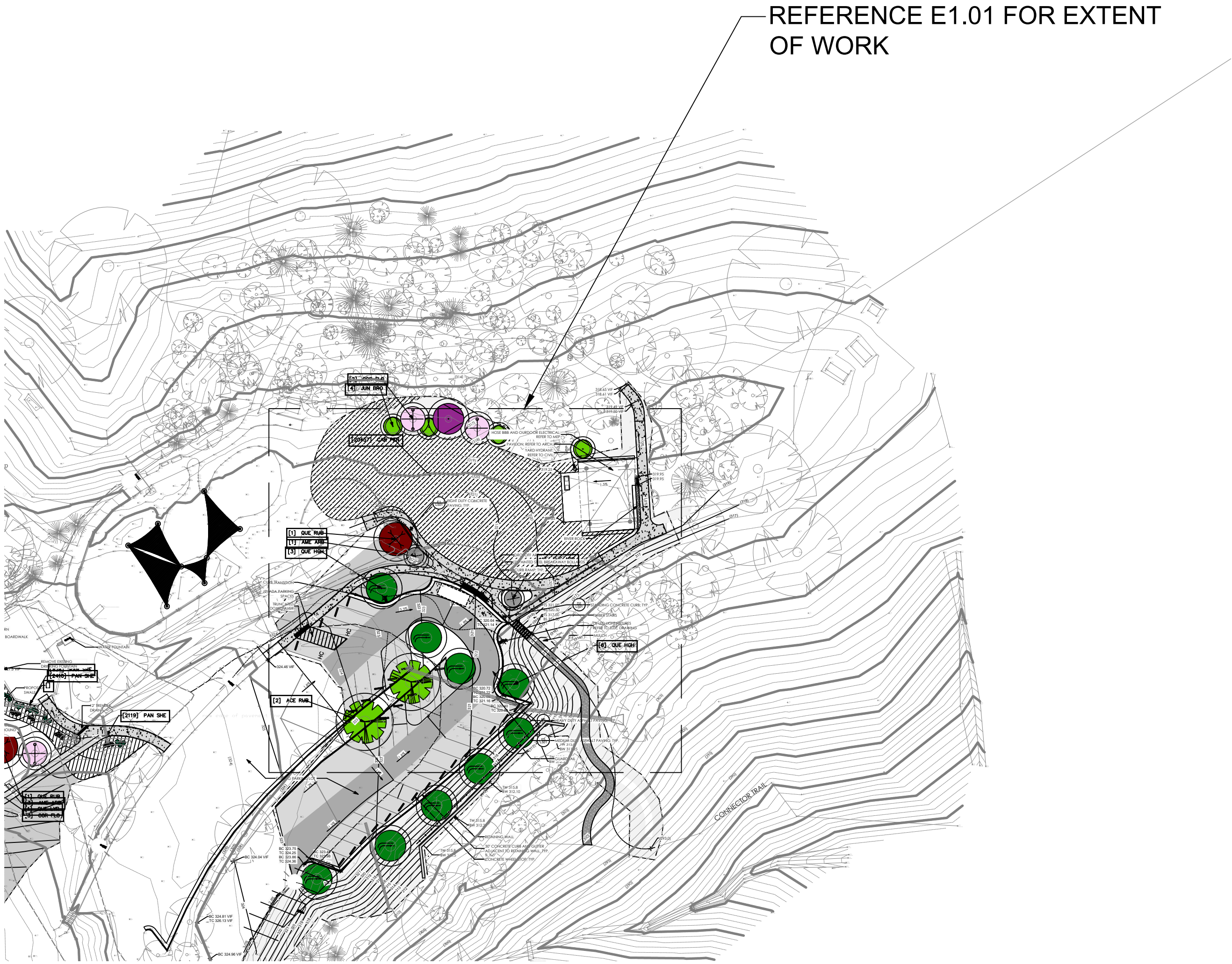
BLUE JAY POINT COUNTY PARK

3240 PLEASANT UNION CHURCH RD
RALEIGH, NC 27614

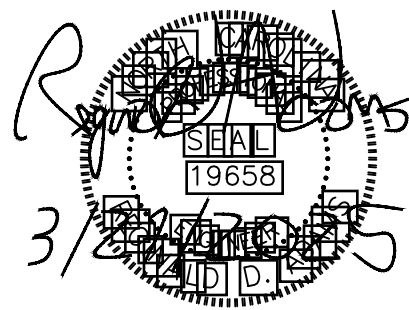
100% CONSTRUCTION DOCUMENTS

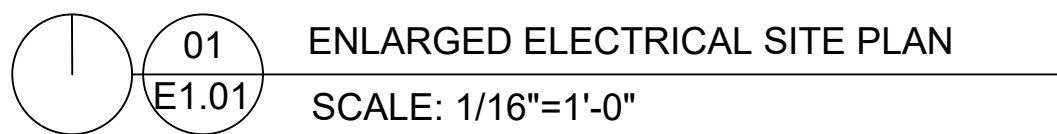
DATE:	03/21/25
DRAWN:	GTH
CHECKED:	DLH
APPROVED:	CAL

SHEET
SI.IPG



01 OVERALL ELECTRICAL SITE PLAN
E1.00 SCALE: NONE





- 1 NEW SINGLE PHASE TRANSFORMER PROVIDED BY DUKE PROGRESS. TRANSFORMER DESIGNATED AS T-2. REFERENCE SHEET E1.02 FOR ADDITIONAL INFORMATION.
- 2 NEW PANELS AND METERS MOUNTED ON A NEW STRUCTURE. REFERENCE SHEET E1.02 FOR INSTALLATION DETAILS.
- 3 PROVIDE FOUR (4) 1"25" CONDUITS FROM LOCATION OF FUTURE PANEL MDP2B TO SITE AND CAP. CONDUITS SHALL BE CONCRETE ENCASED.
- 4 PROVIDE 5# 10, IN 1" TO RECEPTACLE AND LIGHT IN THIS SHELTER, PER 1/E2.00, TO PANEL MDP2A.
- 5 EXISTING FIBERGLASS POLE AND HID FIXTURE. CONTRACTOR IS TO REMOVE POLE AND FIXTURE. WIRING SHALL BE PULLED BACK AND RETAINED. IN LOCATION OF EXISTING POLE, PROVIDE 12"X12"X12' QUAZITE STYLE HAND HOLE AND SPLICE EXISTING WIRING TO MAINTAIN WIRING CONTINUITY. PROVIDE 1-1" AND NEW 3# 10AWG TO NEW POLE WHICH SHALL BE PROVIDED ADJACENT TO HANDHOLE. PROVIDE PER DETAIL 1/E1.03 AND FIXTURE SCHEDULE.
- 6 EXISTING FIBERGLASS POLE AND HID FIXTURE. CONTRACTOR IS TO REMOVE POLE AND FIXTURE. WIRING SHALL BE PULLED BACK AND RETAINED. IN LOCATION OF EXISTING POLE, PROVIDE 12"X12"X12' TRAFFIC RATED QUAZITE STYLE HAND HOLE AND SPLICE EXISTING WIRING TO MAINTAIN WIRING CONTINUITY. PROVIDE 1-1" AND NEW 3# 10AWG TO NEW POLE WHICH SHALL BE PROVIDED ADJACENT TO HANDHOLE. PROVIDE PER DETAIL 1/E1.04 AND FIXTURE SCHEDULE.
- 7 PROVIDE NEW POLE AND FIXTURE AND INSTALL PER DETAIL 1/E1.03. PROVIDE NEW 3# 10AWG IN 1" TO HANDHOLE AS SHOWN AND NOTED IN KEYNOTE #5.
- 8 PROVIDE 20 AMPERE, 120V, WP, GFCI RECEPTACLE FOR NEW CISTERN PUMP. CONNECT TO EXISTING CIRCUIT #2 IN COMFORT STATION. AHEAD OF ANY LIGHTING SWITCHING.
- 9 PROVIDE 12"X12"X12' HANDHOLE WITH TRAFFIC RATE COVER. PROVIDE HANDHOLES ON 6" OF CRUSHED STONE. TIE IN TO EXISTING LIGHTING CIRCUIT AND PROVIDE 5# 10 AWG IN 1.5" BETWEEN HANDHOLES.

E1.01

03/21/25
RDA
scale as noted

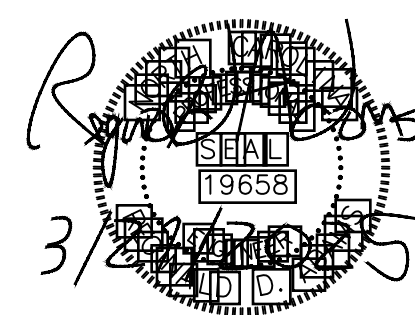
BLUE JAY POINT COUNTY PARK
3240 PLEASANT UNION CHURCH RD
RALEIGH, NC 27614

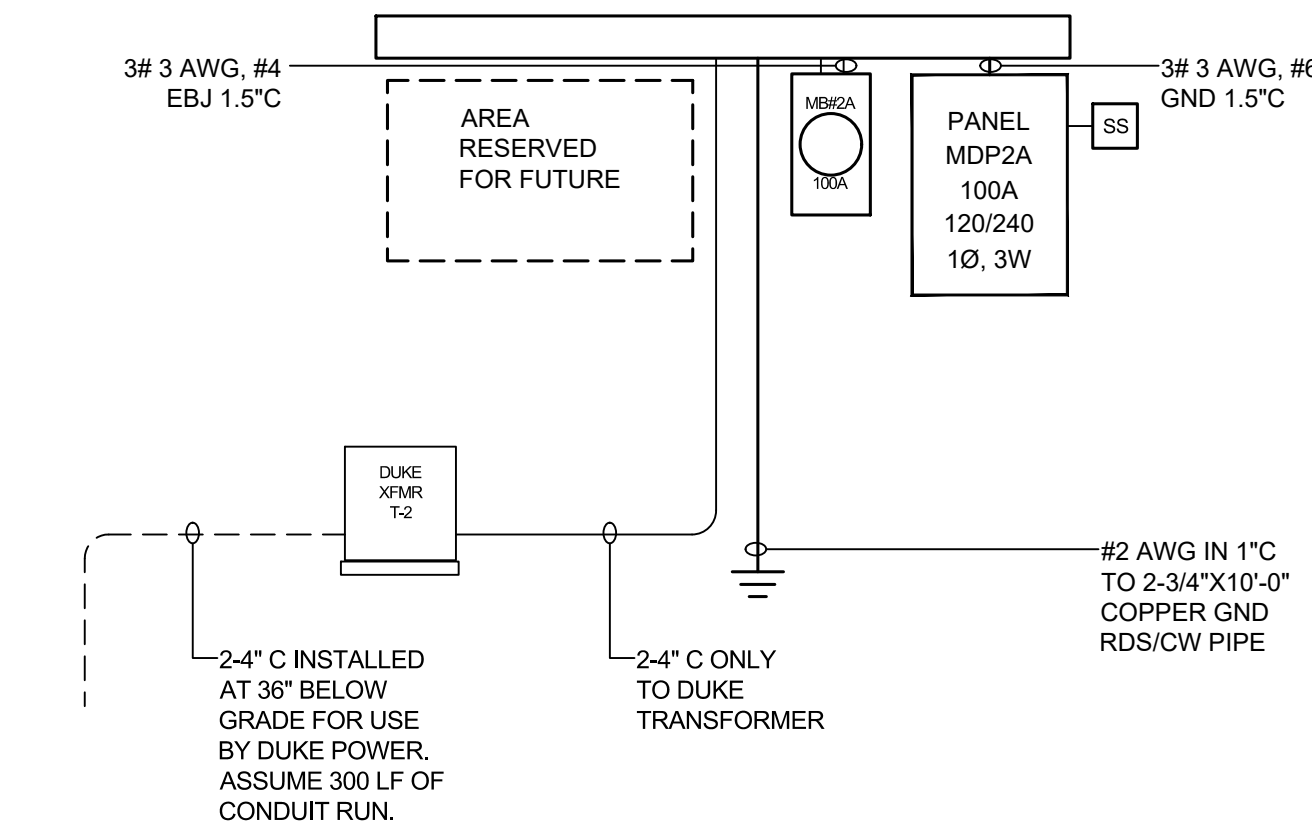
Consultants

Sigma Engineered Solution, PC
5909 Falls of Neuse Rd, Suite 101 Raleigh NC 27609
919.840.9300 www.sigmaes.com Lic: C-2490

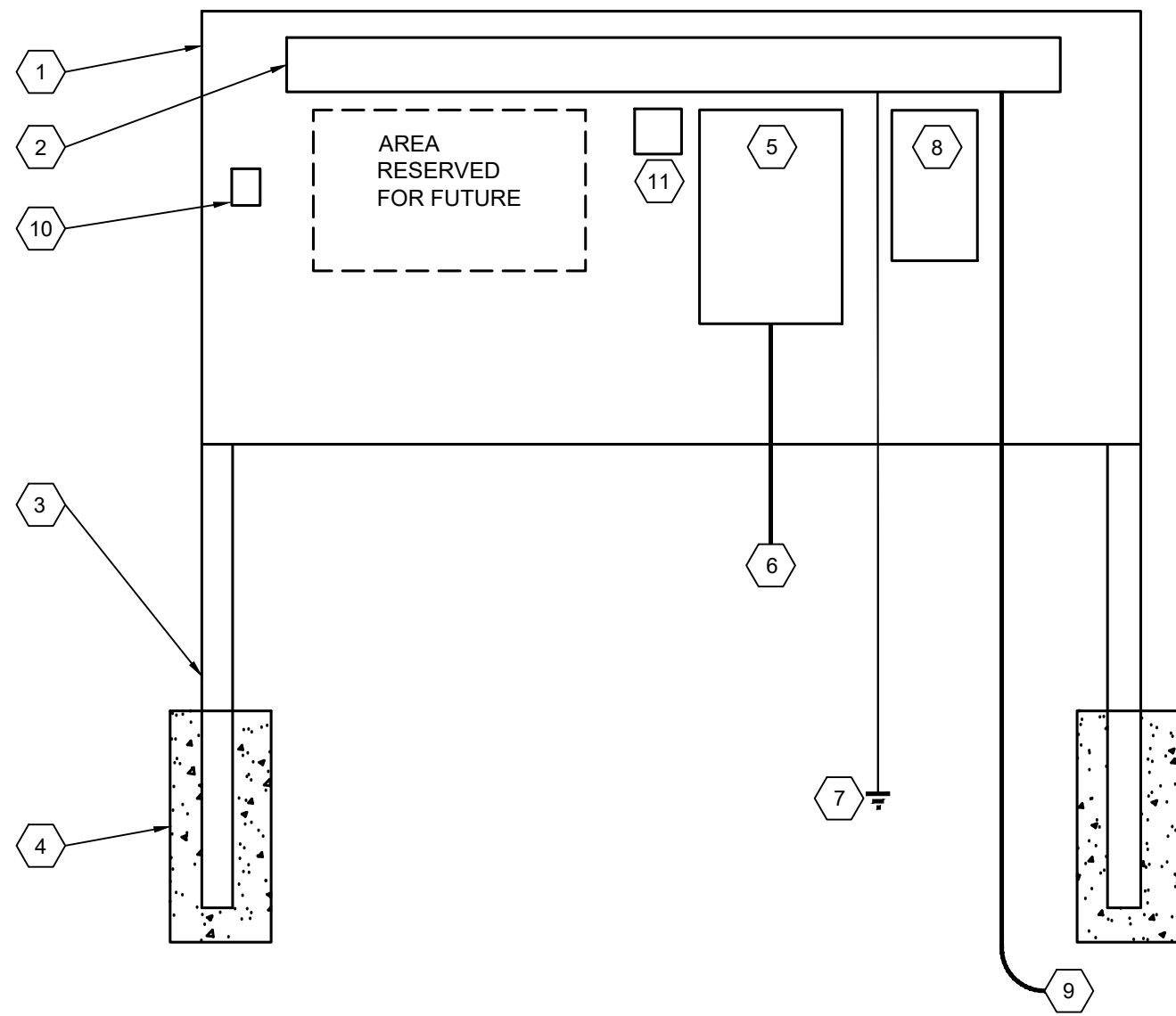
704 N Person St
Raleigh NC 27604
www.insitustudio.us

in situ studio



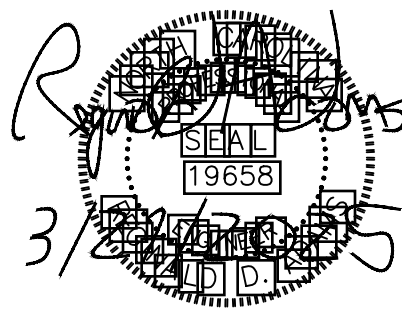


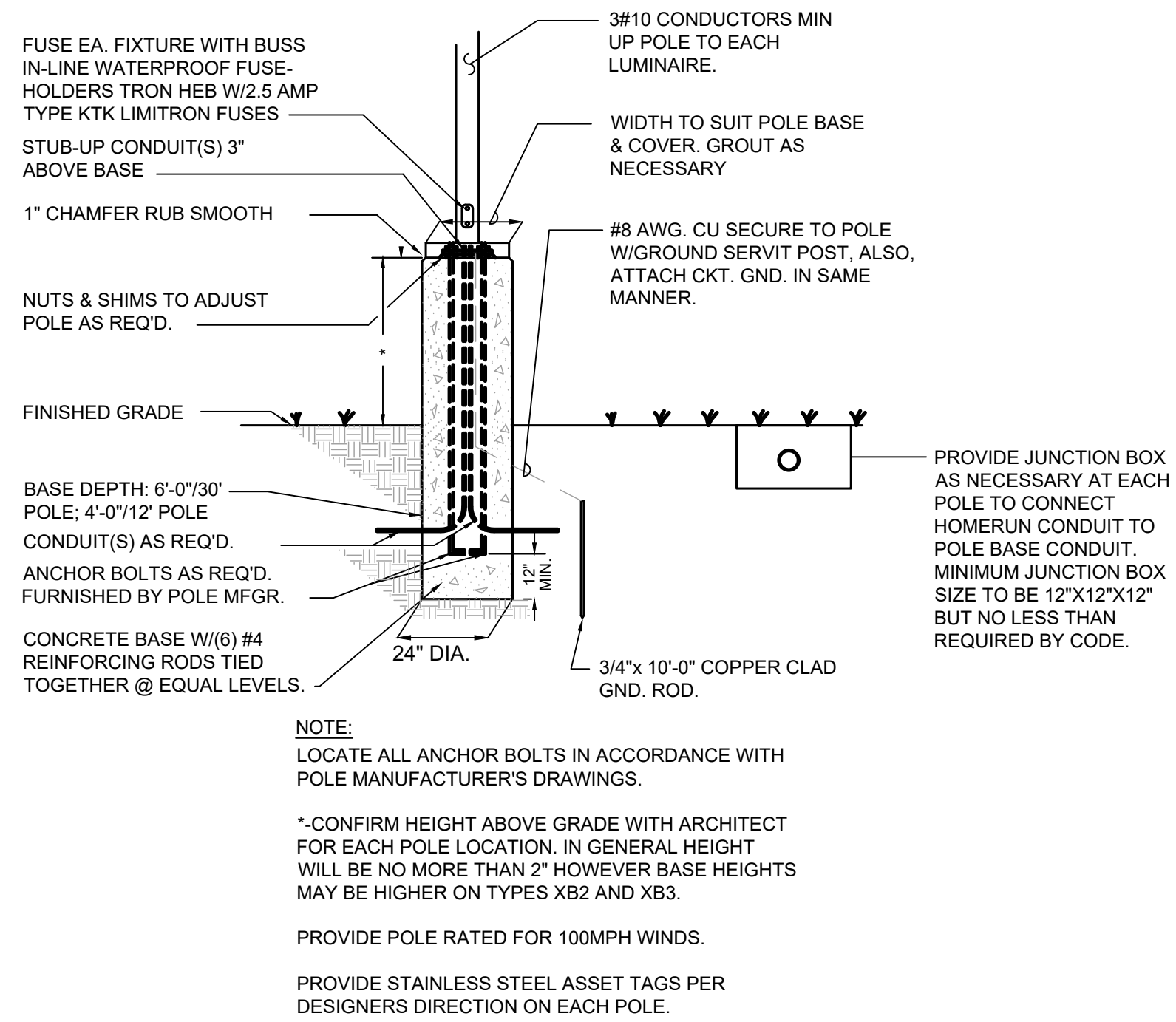
01 SITE ELECTRICAL RISERS
E1.02 SCALE: NONE



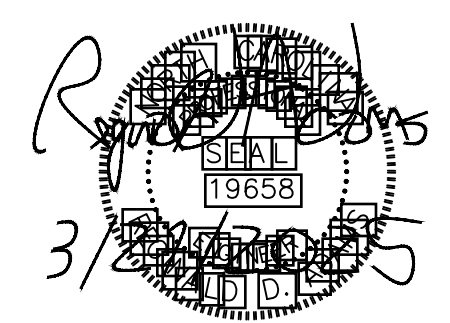
- KEYED NOTES:**
- 1 PROVIDE 1/2" GALVANIZED SHEET STEEL BACKBOARD SIZED TO ACCOMMODATE EQUIPMENT.
 - 2 PROVIDE CODE-SIZED WP "GUTTER" ABOVE METER & DISCONNECT.
 - 3 PROVIDE 4" GALVANIZED STEEL TUBE FOR SUPPORT OF BACKBOARD.
 - 4 PROVIDE 4" GALVANIZED STEEL TUBE 36" BELOW GRADE. PROVIDE 6" OF CONCRETE SURROUNDING TUBE BELOW GRADE.
 - 5 NEMA 4X SE RATED PANEL PER RISER THIS SHEET.
 - 6 PROVIDE WIRING TO SHELTERS PER PLAN SHEETS.
 - 7 PROVIDE SE GROUNDING PER RISER. PROTECT IN CONDUIT.
 - 8 PROVIDE DUKE/PROGRESS METER BASE.
 - 9 PROVIDE LATERAL TO TRANSFORMER RISER THIS SHEET.
 - 10 PROVIDE WP/GFI 20 AMPERE RECEPTACLE CIRCUIT TO PANEL PER SCHEDULES.
 - 11 PROVIDE SPD PER PANEL SCHEDULES AND SECTION 264313 OF THE PROJECT MANUAL.

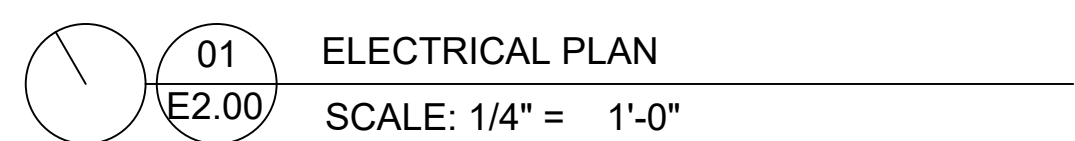
PANEL "MDP2A"																			
PANEL TYPE:						QO						MCB:				100AMCB			
BUS SIZE:						100						MOUNTING:				SURFACE-NEMA 4XSS			
VOLTAGE:						120/240						MINIMUM AIC:				10,000			
CKT	LOAD SERVED	TRIP	POLE	kVA	WIRE SIZE*	CONDUIT SIZE	kVA PER PHASE		CONDUIT SIZE	WIRE SIZE*	kVA	POLE	TRIP	LOAD SERVED	CKT				
1	REC AT PANEL	20G	1	0.18	#12	1"	1.58		1"	#12	1.40	1	20G	SHELTER LTG	2				
3	SPARE	20	1					1.40	1"	#12	1.40	1	20G	SHELTER REC	4				
5	SPARE	20	1				0.00							SPACE	6				
7	SPARE	20	1					0.00						SPACE	8				
9	SPARE	20	1				0.00							SPACE	10				
11	SPARE	20	1					0.00						SPACE	12				
13	SPARE	20	1				0.00							SPACE	14				
15	SPARE	20	1					0.00						SPACE	16				
17	SPARE	20	1				0.00							SPACE	18				
19	SPARE	20	1					0.00						SPACE	20				
21	SPARE	20	1				0.00							SPACE	22				
23	SPARE	20	1					0.00						SPACE	24				
25	SPARE	20	1				0.00							SPACE	26				
27	SPARE	20	1					0.00						SPACE	28				
29	SPARE	20	1				0.00							SPACE	30				
CONNECTED LOAD						3.0	kVA	1.6	1.4	kVA	G=GFCI BREAKER								
MAXIMUM DEMAND LOAD						3.0	kVA	13	12	Amperes									
DEMAND AMPERES						12.6	Amperes												





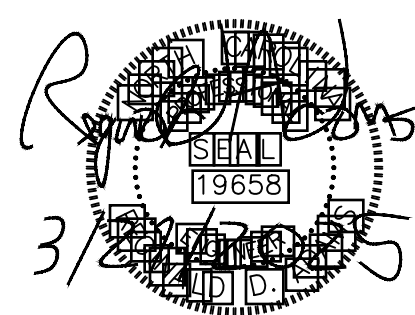
01 POLE MOUNTED FIXTURE INSTALLATION
E1.03 SCALE: NONE

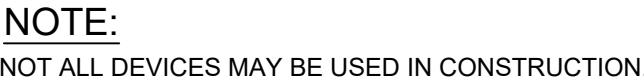




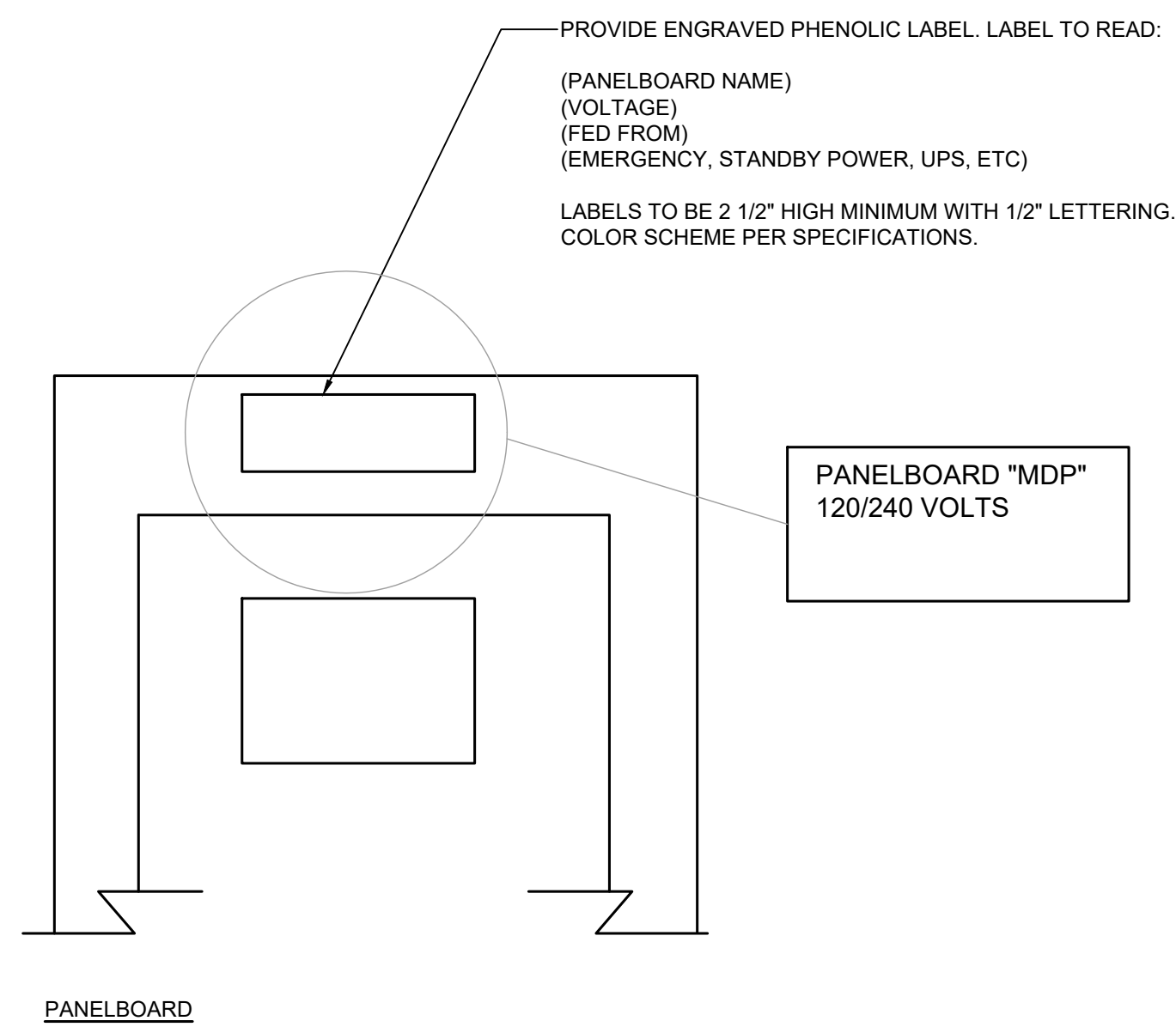
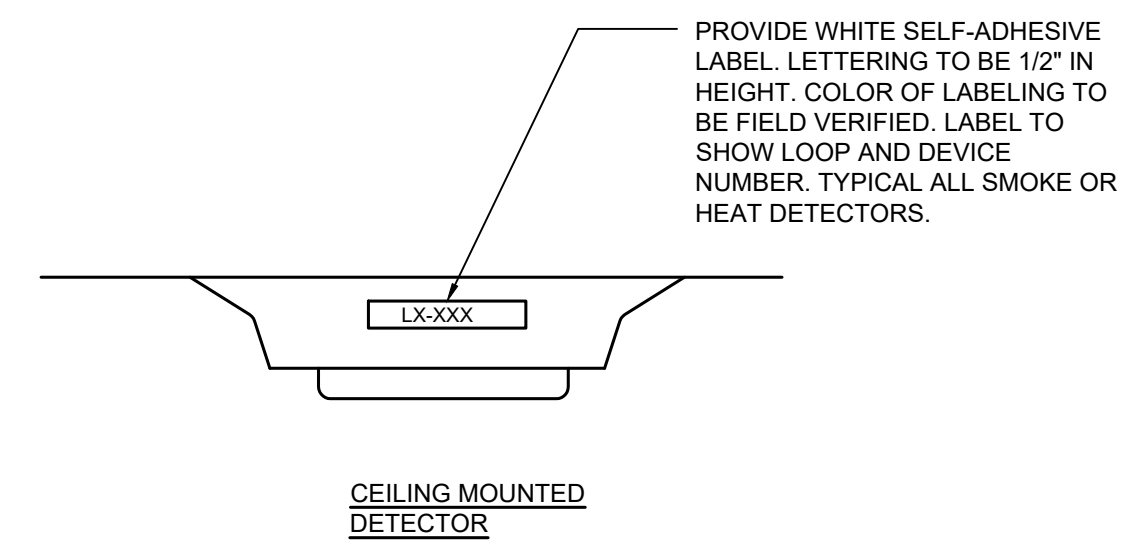
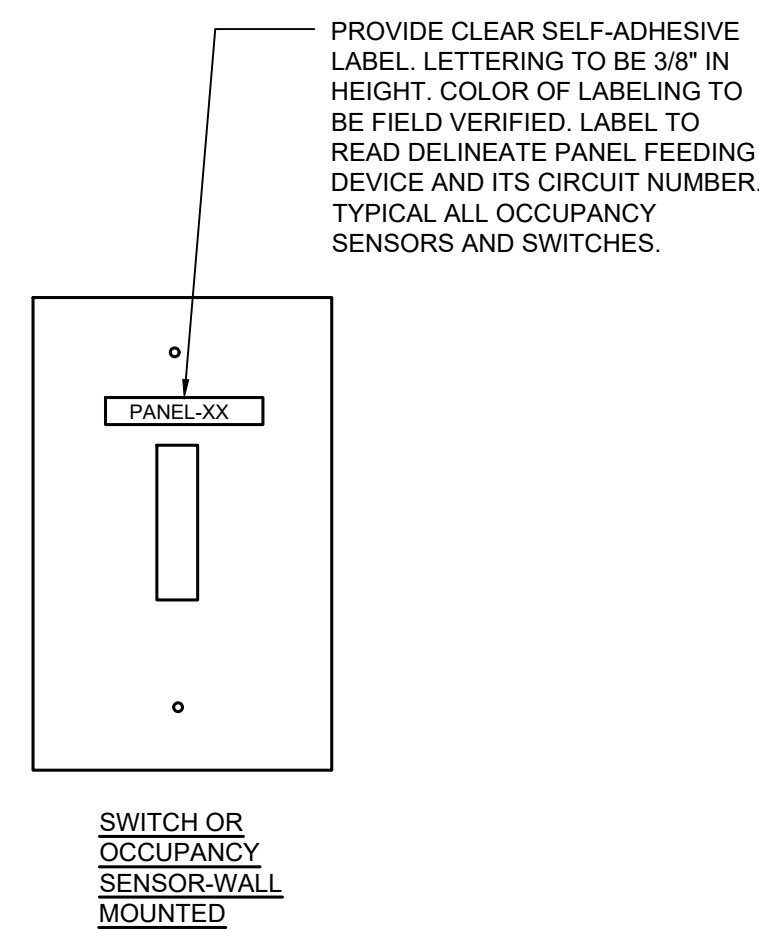
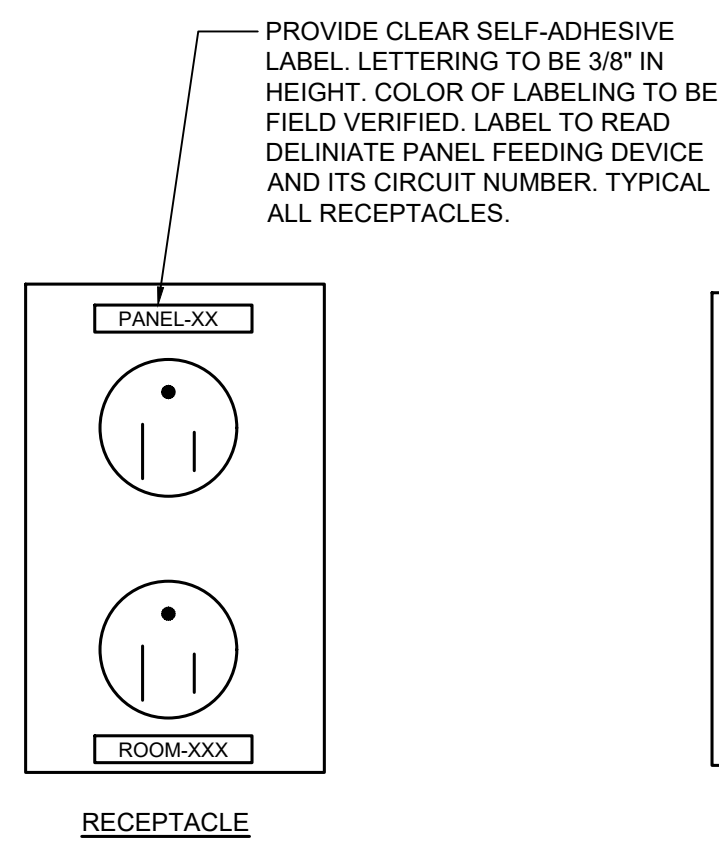
1. REFER TO SHEET E001 & E002 FOR GENERAL NOTES AND LEGEND.
2. REFER TO SHEET E100 FOR SITE CONDITIONS.
3. REFER TO SHEET E102 FOR POWER RISER DIAGRAM.
4. REFER TO SHEET E102 FOR PANEL SCHEDULES.
5. REFERENCE A2.2 TB AND A2.2 PG FOR DEVICE LOCATIONS AND REFLECTED CEILING PLAN.
REFERENCE NOTE BELOW FOR COORDINATION WITH PLASTER AND ACROUSTIC TILE.
6. COORDINATE LOCATIONS OF ALL EQUIPMENT, DEVICES, ETC. WITH ARCHITECT PRIOR TO BEGINNING WORK. REFERENCE SECTION 265000 FOR REQUIRE PRE-INSTALLATION MEETINGS.
7. CONTRACTOR SHALL CAREFULLY REVIEW BOTH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS TO CORRELATE THE INSTALLATION OF FIXTURES AND WIRING AND COORDINATE WITH BUILDING STRUCTURE. CONTRACTOR SHALL PROVIDE A DETAILED CONDUIT INSTALLATION PLAN TO THE DESIGNER FOR REVIEW.

1 PROVIDE 2-POLE 20A WEATHER-PROOF SWITCH AS DIRECTED BY THE DESIGNER AT 36" AFF. PROVIDE ADDITIONAL SWITCH FOR LIGHTING CONTROL ABOVE THIS SWITCH, AT 44" AFF. WIRING FOR LIGHTING AND RECEPTACLE SHALL BE ROUTED THRU 2-POLE SWITCH. ALL CONDUIT SHALL BE PAINTED, COLOR TBD. REFERENCE 2/A2.10 FOR BOX AND CONDUIT INSTALLATION.





A circular FBI Seal is stamped over the document. The seal features the words 'FEDERAL BUREAU OF INVESTIGATION' and 'DEPARTMENT OF JUSTICE' around the perimeter. In the center, the word 'SEAL' is printed above the year '19658'. Handwritten in black ink over the seal is a large 'R' on the left and '3/25/70' at the bottom. A date stamp 'APR 1 1968' is also visible within the seal's border.



NOTE: DIVISION 26 SHALL LABEL ALL DISCONNECTS INCLUDING THOSE PROVIDED BY DIVISIONS 22 AND 23.