

**2018 BUILDING CODE SUMMARY - APPENDIX B**

Name of Project: YMCA of the Sandhills, Harnett County Pavilion Shelter  
 Address: 107 CARLETTA CAGLE DRIVE Zip Code TBD  
 Owner/Authorized Agent: Rick Hoop Phone #: (910) 426 - 9622 E-Mail: rickh.ymcanc@gmail.com  
 Owned By:  City/County  Private/Nonprofit  State  
 Code Enforcement Jurisdiction:  City  County - Harnett  State

**CONTACT: ANDREW W. PRIVETTE, AIA**

DESIGNER	FIRM	NAME	LICENSE	TELEPHONE	E-MAIL
Architectural	Designed to Build	Andrew Privette	3877	(910) 485-8567	andy@designedtobuild.com
Civil					
Electrical					
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural	Designed to Build	Andrew Privette	3877	(910) 485-8567	andy@designedtobuild.com
Retaining Walls >5' High					
Other					

2018 NC BUILDING CODE:  New Building  Shell/Core  1<sup>st</sup> Time Interior Completions  
 Addition  Phased Construction-Shell Core

2018 NC EXISTING BUILDING CODE:  
 Prescriptive  Alteration Level 1  Historic Property  
 Repair  Alteration Level 2  Change of Use  
 Chapter 14  Alteration Level 3

CONSTRUCTED: (date) \_\_\_\_\_ CURRENT OCCUPANCY(S) (Ch. 3): \_\_\_\_\_  
 RENOVATED: (date) \_\_\_\_\_ PROPOSED OCCUPANCY(S) (Ch. 3): \_\_\_\_\_  
 OCCUPANCY CATEGORY (Table 1604.5): Current: N/A Proposed: II

**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  NFPA 13  NFPA 13R  NFPA 13D  
 Standpipes:  No  Class 1  II  III  Wet  Dry  
 Primary Fire District:  No  Yes Flood Hazard Area:  No  Yes  
 Special Inspections Required:  No  Yes Fire Flow: 1,500 gpm for 2 hours

**GROSS BUILDING AREA TABLE**

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 <sup>rd</sup> Floor			
2 <sup>nd</sup> Floor			
Mezzanine			
1 <sup>st</sup> Floor		1,513 SF	
Basement			
Total		1,513 SF	

**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  I-2  I-3  I-4  
 I-3 Condition  1  2  
 I-2 Condition  1  2  
 I-3 Condition  1  2  3  4  5  
 Mercantile   
 Residential  R-1  R-2  R-3  R-4  
 Storage  S-1 Moderate  S-2 Low  High Piled  
 Parking Garage  Open  Enclosed  
 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: \_\_\_\_\_ Hr. Exception: \_\_\_\_\_  
 Non-separated Use (508.3)  
 Separated Use (508.4) - See below for area calculations for each story.

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

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA	(C) AREA FOR FRONTAGE INCREASES <sup>5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>3</sup>
1	UTILITY SHELTER	1,513	5,500	4,125	9,625

<sup>1</sup> Frontage area increases from Section 506.2 are computed thus:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = ALL (F)  
 b. Total Building Perimeter = ALL (P)  
 c. Ratio (F/P) = 1 (F/P)  
 d. W = Minimum width of public way = 30 (W)  
 e. Percent of frontage increase  $I_f = 100[F/P - 0.25] \times W/30 = 75\%$   
<sup>2</sup> Unlimited area applicable under conditions of Section 507.  
<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).  
<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.  
<sup>5</sup> Frontage increase is based on the un-sprinklered area value in Table 506.2.

**ALLOWABLE HEIGHT**

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'	15'	
Building Height in Stories (Table 504.4)	1	1	

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

**FIRE PROTECTION REQUIREMENTS**

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	PROVIDED (W/ REDUCTIONS)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame Including columns, girders, trusses		0	0				
Bearing Walls	N/A	N/A	N/A				
Exterior		N/A	N/A				
North		N/A	N/A				
East		N/A	N/A				
West		N/A	N/A				
South		N/A	N/A				
Interior		N/A	N/A				
Nonbearing Walls and Partitions	N/A	N/A	N/A				
Exterior		N/A	N/A				
North		N/A	N/A				
East		N/A	N/A				
West		N/A	N/A				
South		N/A	N/A				
Interior		N/A	N/A				
Floor Construction Including supporting beams and joists		N/A	N/A				
Floor Ceiling Assembly		N/A	N/A				
Columns Supporting Floors		N/A	N/A				
Roof Construction Including supporting beams and joists		0	0				
Roof Ceiling Assembly		N/A	N/A				
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		N/A	N/A				
Shaft Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant Dwelling Unit/Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		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'	UP, US	NO LIMIT	100%

**LIFE SAFETY SYSTEM REQUIREMENTS**

Emergency Lighting:  Yes  No  
 Exit Signs:  Yes  No  
 Fire Alarm:  Yes  No  
 Smoke Detection System:  Yes  No  
 Carbon Monoxide Detection:  Yes  No

**LIFE SAFETY PLAN REQUIREMENTS - N/A, OPEN AIR SHELTER**

Life Safety Plan Sheet #: \_\_\_\_\_  
 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) - N/A**

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

**ACCESSIBLE PARKING (SECTION 1106) - EXISTING PARKING LOT, NO CHANGES**

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
TOTAL						

**PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) N/A FACILITIES PROVIDED ELSEWHERE**

USE	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS		SERVICE SINK
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE	
EXIST'G													
NEW													
REQ'D													

**SPECIAL APPROVALS**

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

**ENERGY SUMMARY**

ENERGY REQUIREMENTS: N/A - OPEN AIR SHELTER

Existing building envelope complies with code:  (If checked, the remainder of this section is not applicable.)

Exempt Building:  Provide code or statutory reference:

Climate Zone:  3A  4A  5A

**Method of Compliance:**

Energy Code:  Performance  Prescriptive  
 ASHRAE 90.1:  Performance  Prescriptive  
 Other:  Performance (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 skylights in each assembly:

**Exterior Walls (each assembly)**

Description of assembly:  
 U-Value of total assembly:  
 R-Value of insulation:  
 Openings (windows or doors with glazing):  
 U-Value of assembly:  
 Solar Heat Gain Coefficient:  
 Projection Factor:  
 Door R-Values:

**Walls 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:

# YMCA of the SANDHILLS HARNETT COUNTY SHELTER 107 CARLETTA CAGLE DRIVE HARNETT COUNTY, NORTH CAROLINA



## ANDREW W. PRIVETTE, ARCHITECT

1920 FT. BRAGG ROAD - FAYETTEVILLE, N.C. 28303 - (910) 485-8567



MARCH 29, 2021

**LIST OF DRAWINGS**

INFORMATIONAL  
 G-101 COVER SHEET AND 2018  
 NORTH CAROLINA BUILDING  
 CODE SUMMARY APPENDIX B

**ARCHITECTURAL**

A-101 PLAN AND SPECIFICATIONS  
 A-102 ELEVATIONS AND SECTIONS  
 A-103 POST AND BEAMS DETAILS

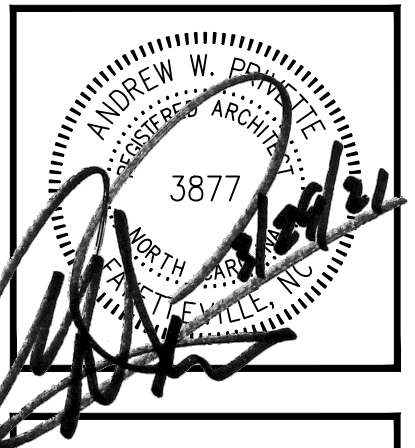
**STRUCTURAL**

S-101 FOUNDATION, SALB, DETAILS  
 S-102 FRAMING PLAN AND DETAILS

Reviewed For Code Compliance By:  
 Roger Sullivan  
 Deputy Fire Marshal  
 04/22/2021 8:34:07 AM



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YMCA of the SANDHILLS  
 HARNETT COUNTY SHELTER  
 107 CARLETTA CAGLE DRIVE  
 HARNETT COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION	CHK.

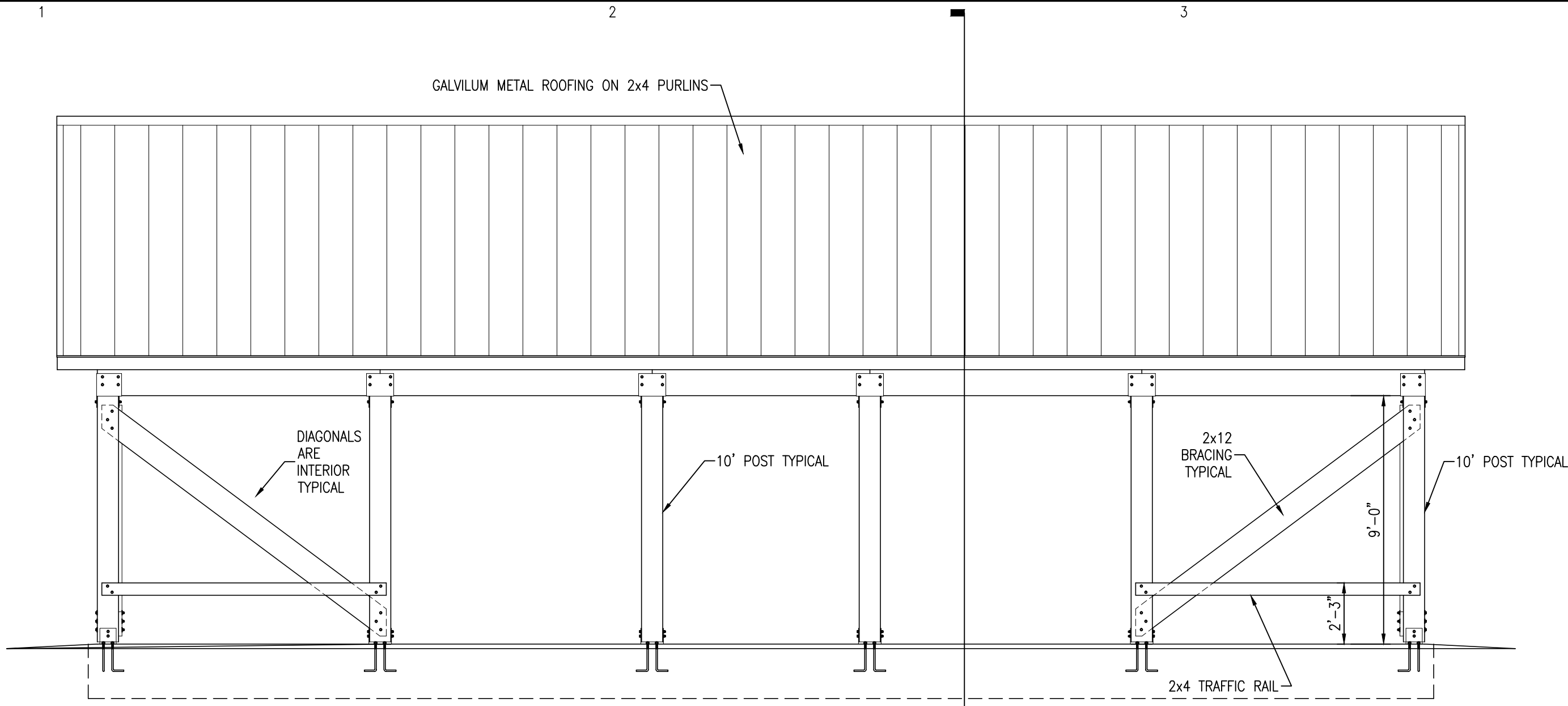
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 CODE SUMMARY  
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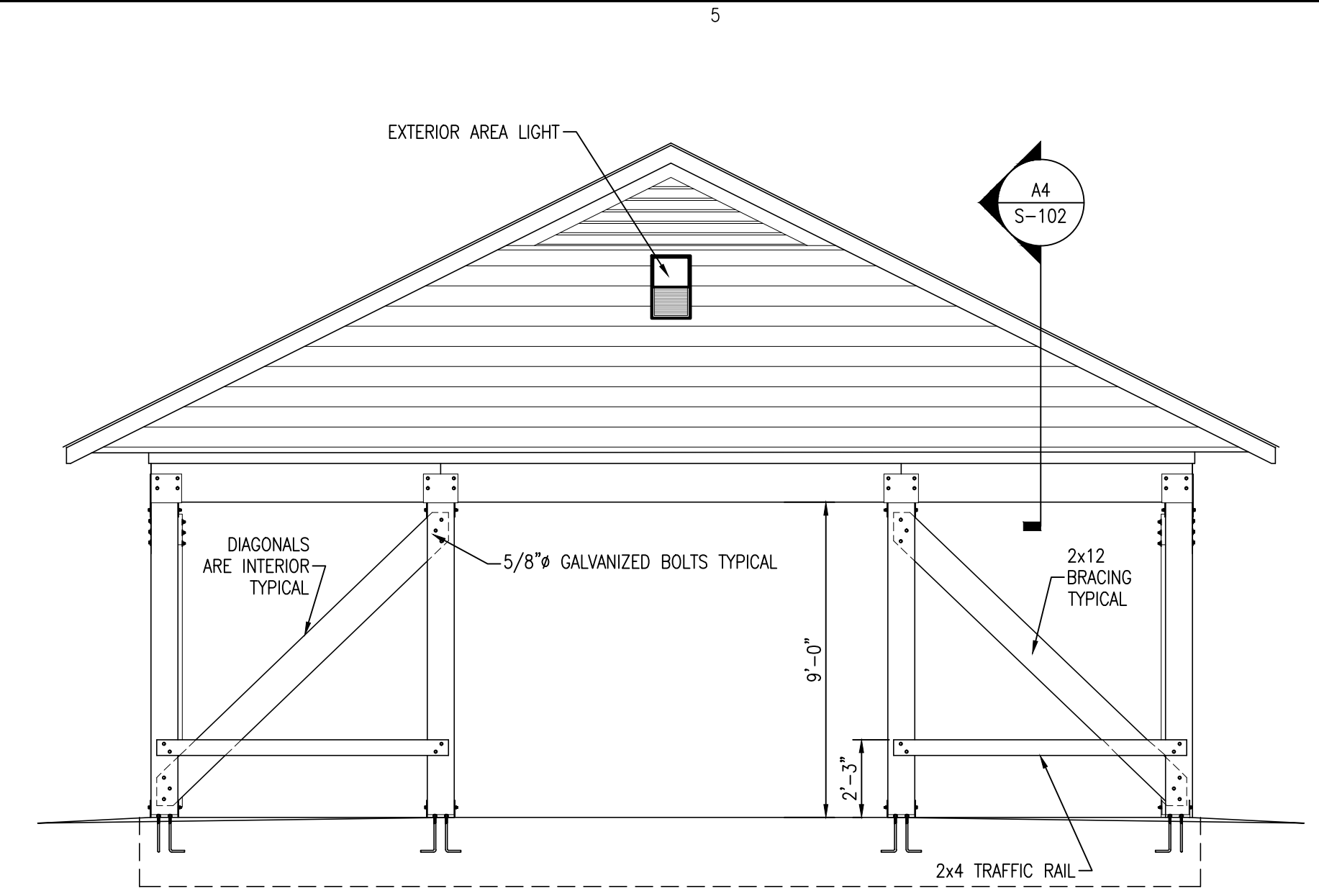
G-101  
 SHEET 1 OF 6



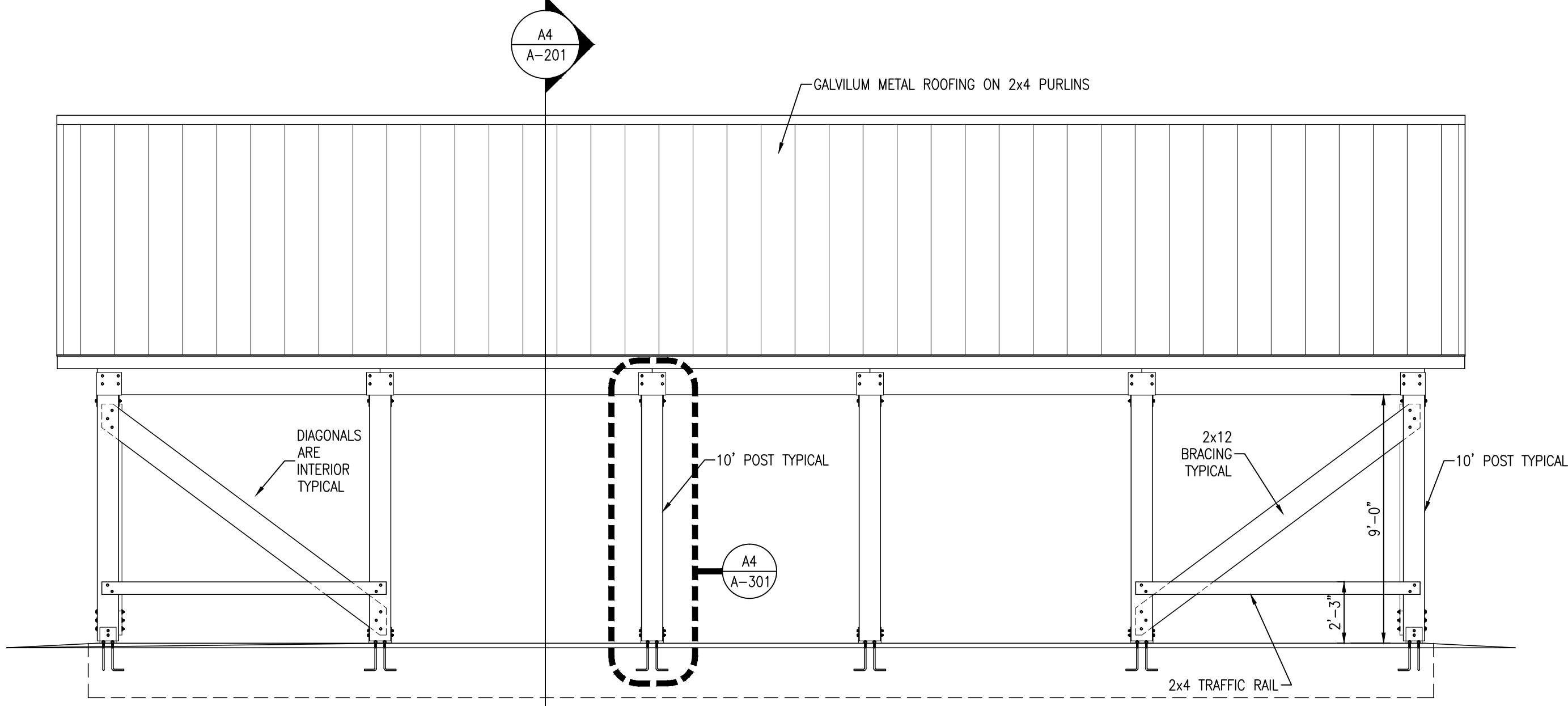




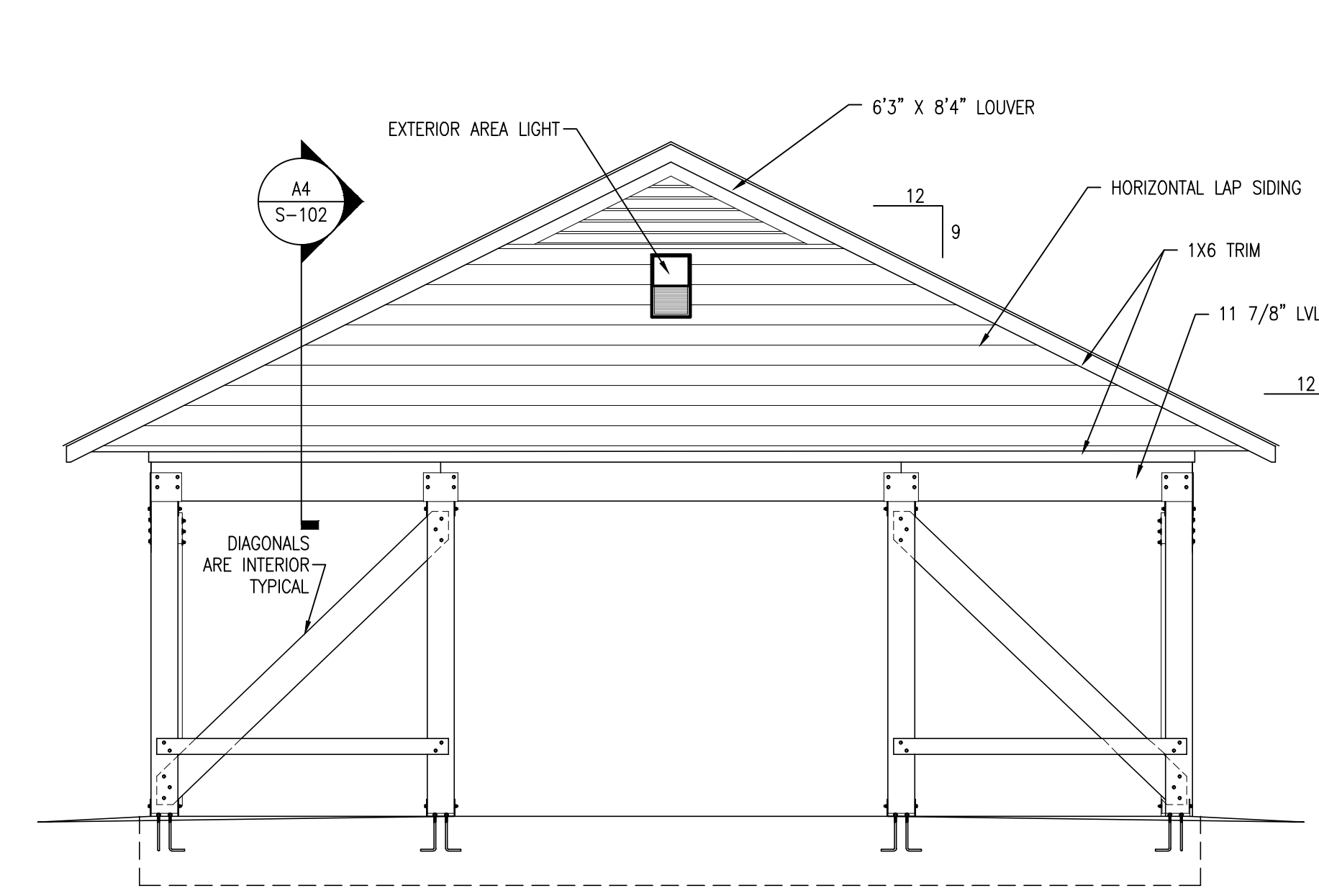
**C1 EAST SIDE ELEVATION**  
SCALE: 1/4" : 1'-0"



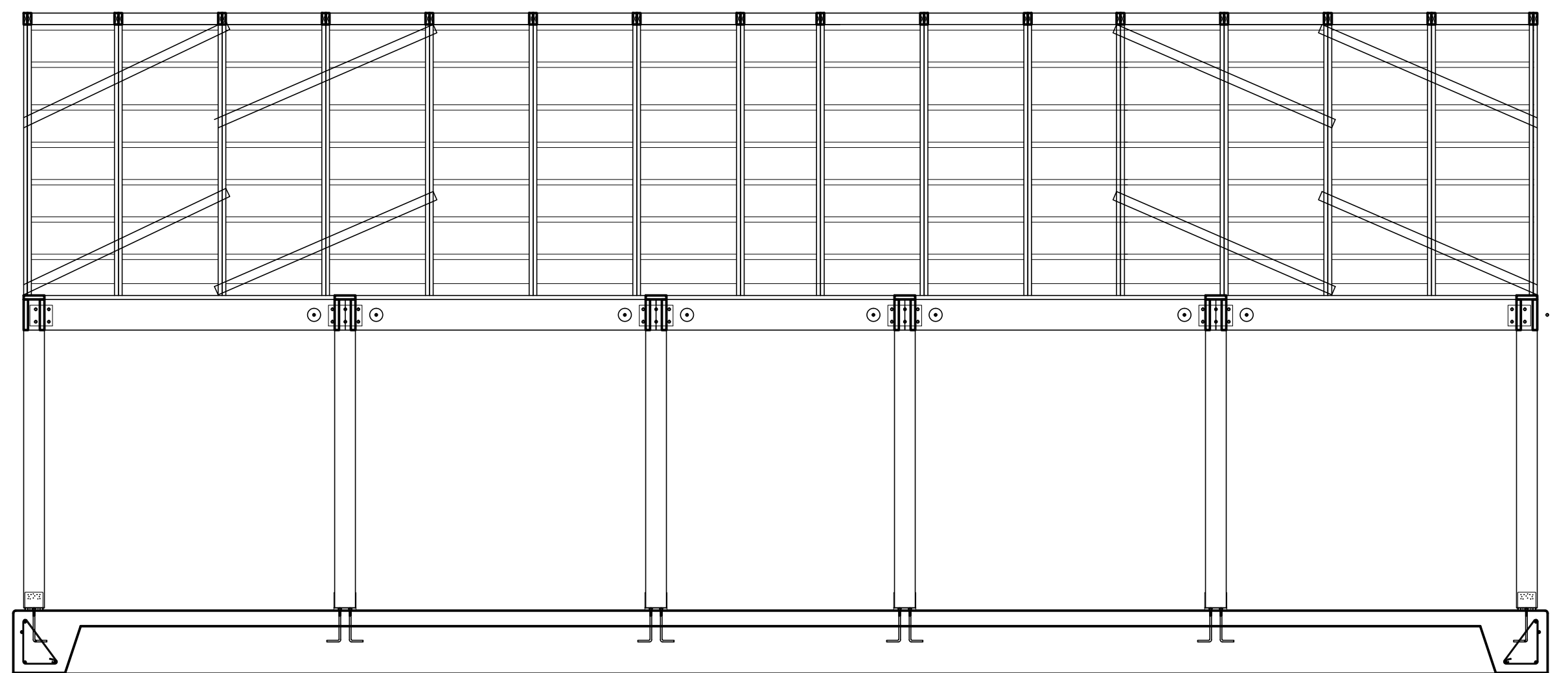
**C4 SOUTH END ELEVATION**  
SCALE: 1/4" : 1'-0"



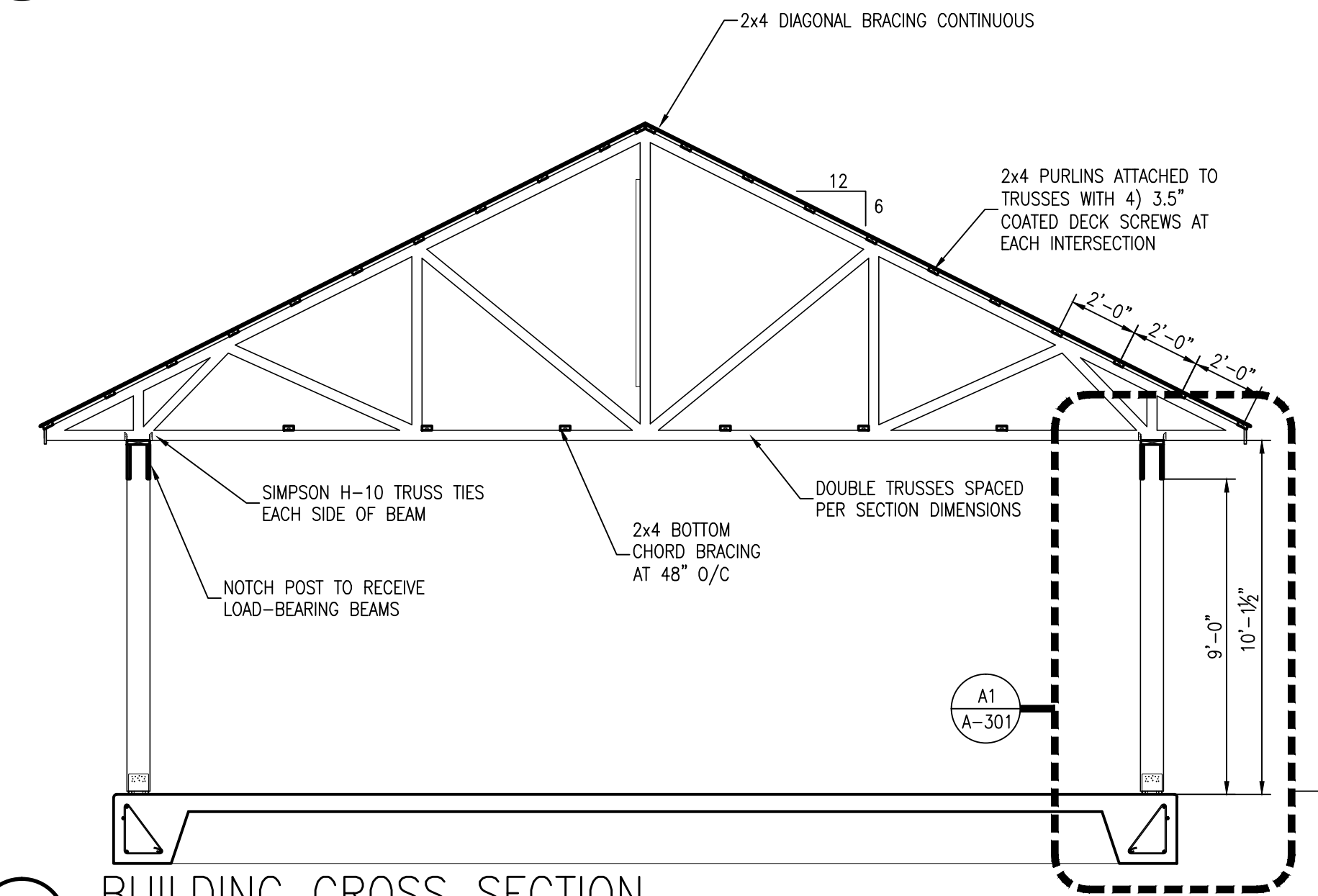
**B1 WEST SIDE ELEVATION**  
SCALE: 1/4" : 1'-0"



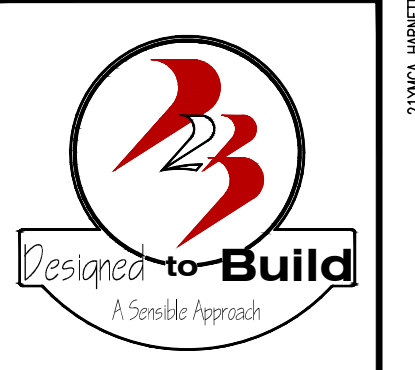
**B4 NORTH END ELEVATION**  
SCALE: 1/4" : 1'-0"



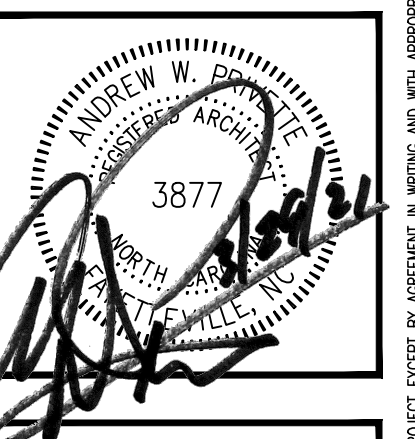
**A1 BUILDING LONGITUDINAL SECTION**  
SCALE: 1/4" : 1'-0"



**A4 BUILDING CROSS SECTION**  
SCALE: 1/4" : 1'-0"



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**YMCA of the SANDHILLS**  
**HARNETT COUNTY SHELTER**  
107 CARLETTA CAGLE DRIVE  
HARNETT COUNTY, NORTH CAROLINA

MARK	DATE	DESCRIPTION	CHK

JOB CODE: 21YMCA HARNETT  
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CHECKED BY: A. PRIVETTE  
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SHEET TITLE:  
**BUILDING ELEVATIONS AND SECTIONS**  
MARCH 29, 2021

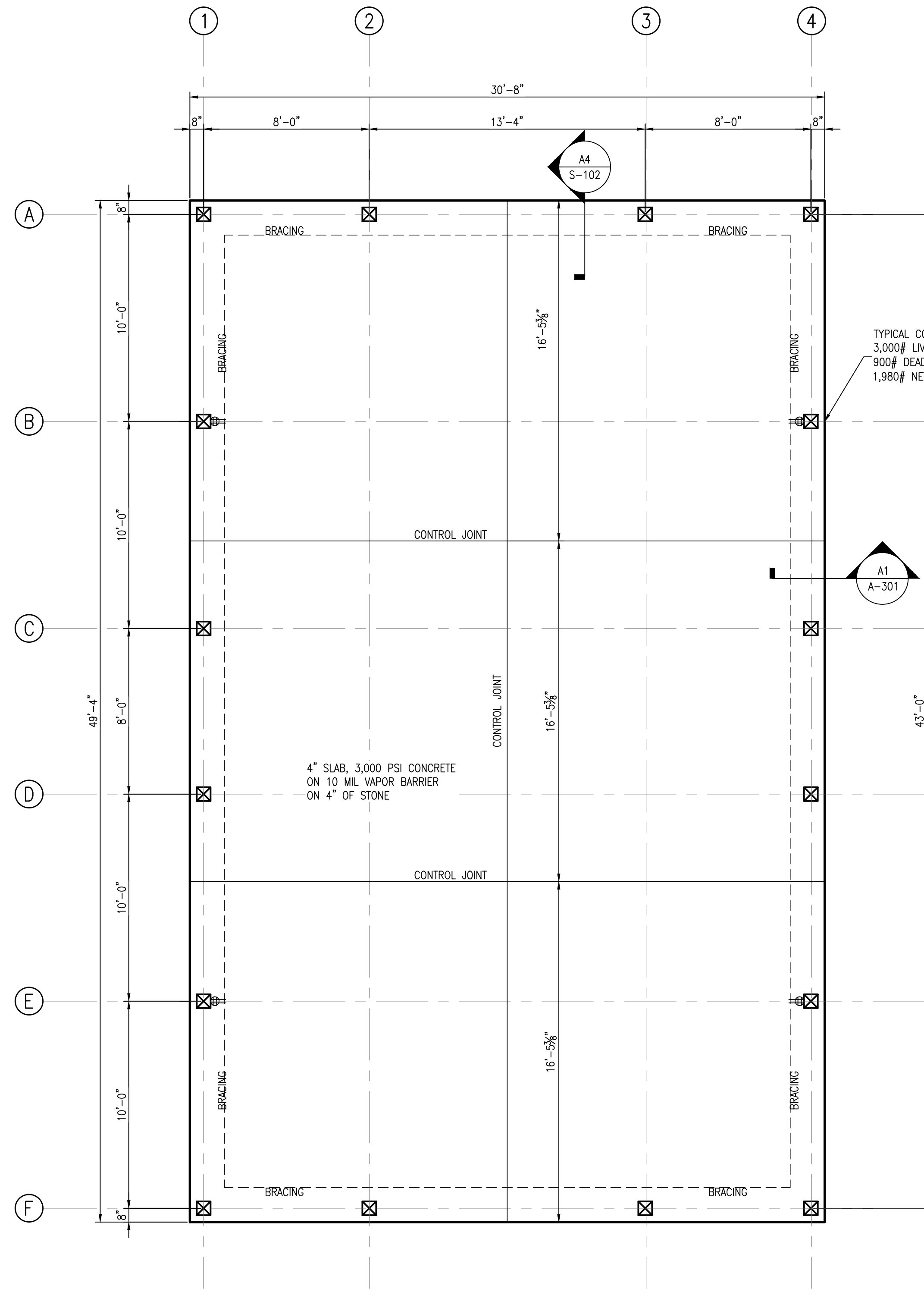
**A-201**  
SHEET 3 OF 6

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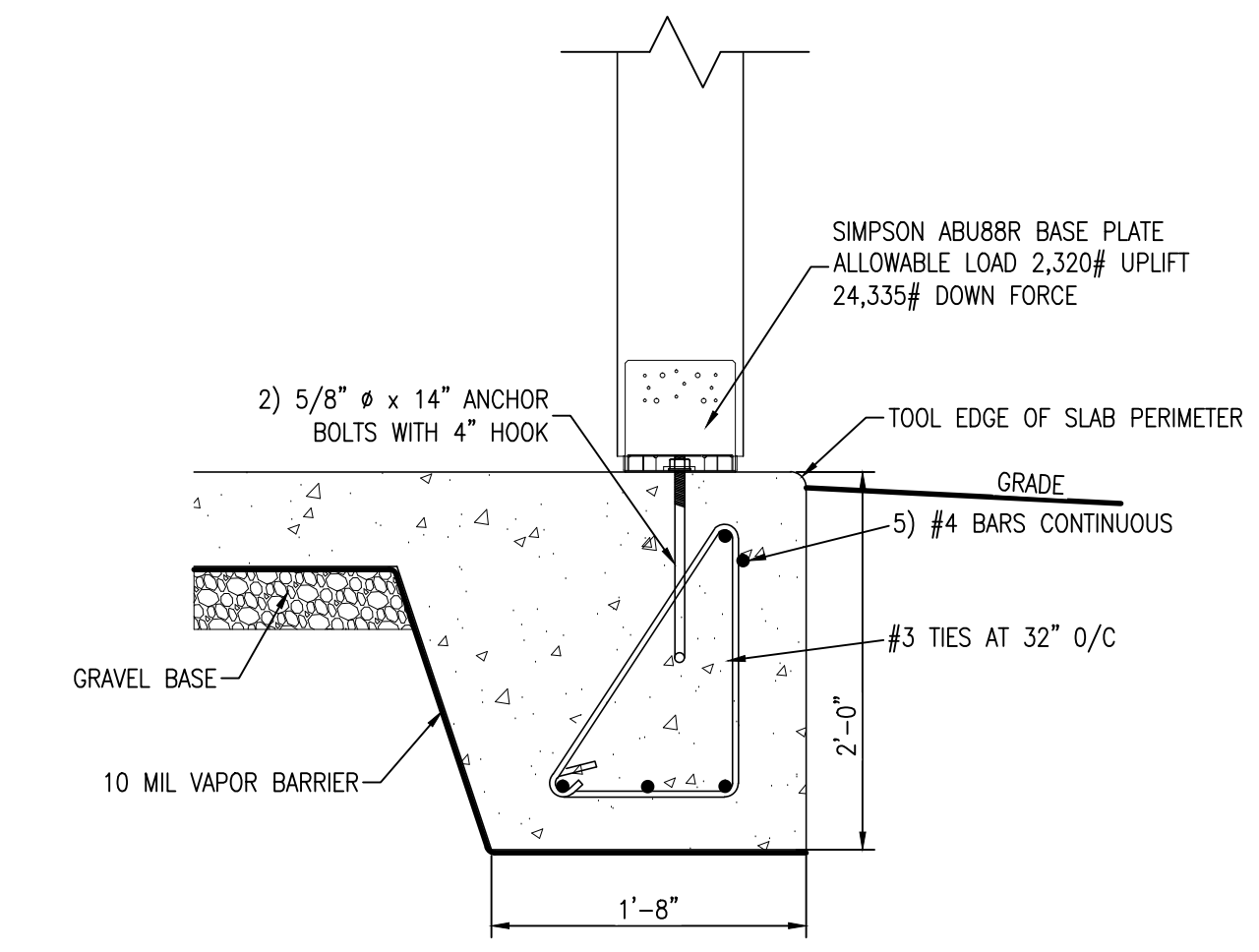


**A1** FOUNDATION/SLAB PLAN  
SCALE: 1/4" : 1'-0"

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

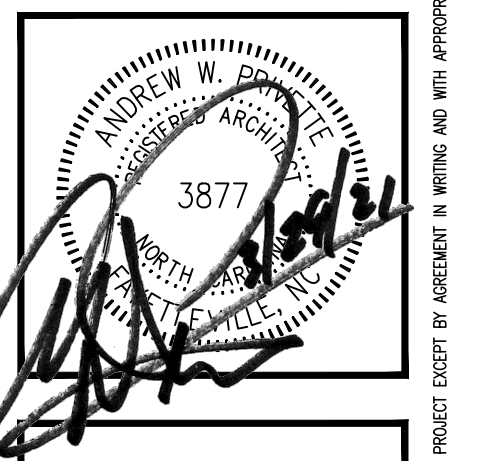
- DESIGN LOADS:
- Importance Factors: Wind (lw) 1, Snow (ls) 1, Seismic (le) 1
  - Live Loads: Roof 20 psf, Mezzanine N/A psf, Floor N/A psf
  - Ground Snow Load: 10 psf
  - Wind Load: Basic Wind Speed 118 mph (ASCE-7-16), Exposure Category B
- SEISMIC DESIGN CATEGORY:  A  B  C  D
- Provide the following Seismic Design Parameters:
- Occupancy Category (Table 1604.5):  I  II  III  IV
  - Spectral Response Acceleration: Ss 0.147 %g, S1 0.070 %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) N/A psf
  - Presumptive Bearing capacity 1,500 psf
  - Pile size, type, and capacity N/A



**A4** TYPICAL FOOTING DETAIL  
SCALE: 1" : 1'-0"



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HARNETT COUNTY SHELTER  
107 CARLETTA CAGLE DRIVE  
HARNETT COUNTY, NORTH CAROLINA

MARK	DATE	DESCRIPTION	CHK

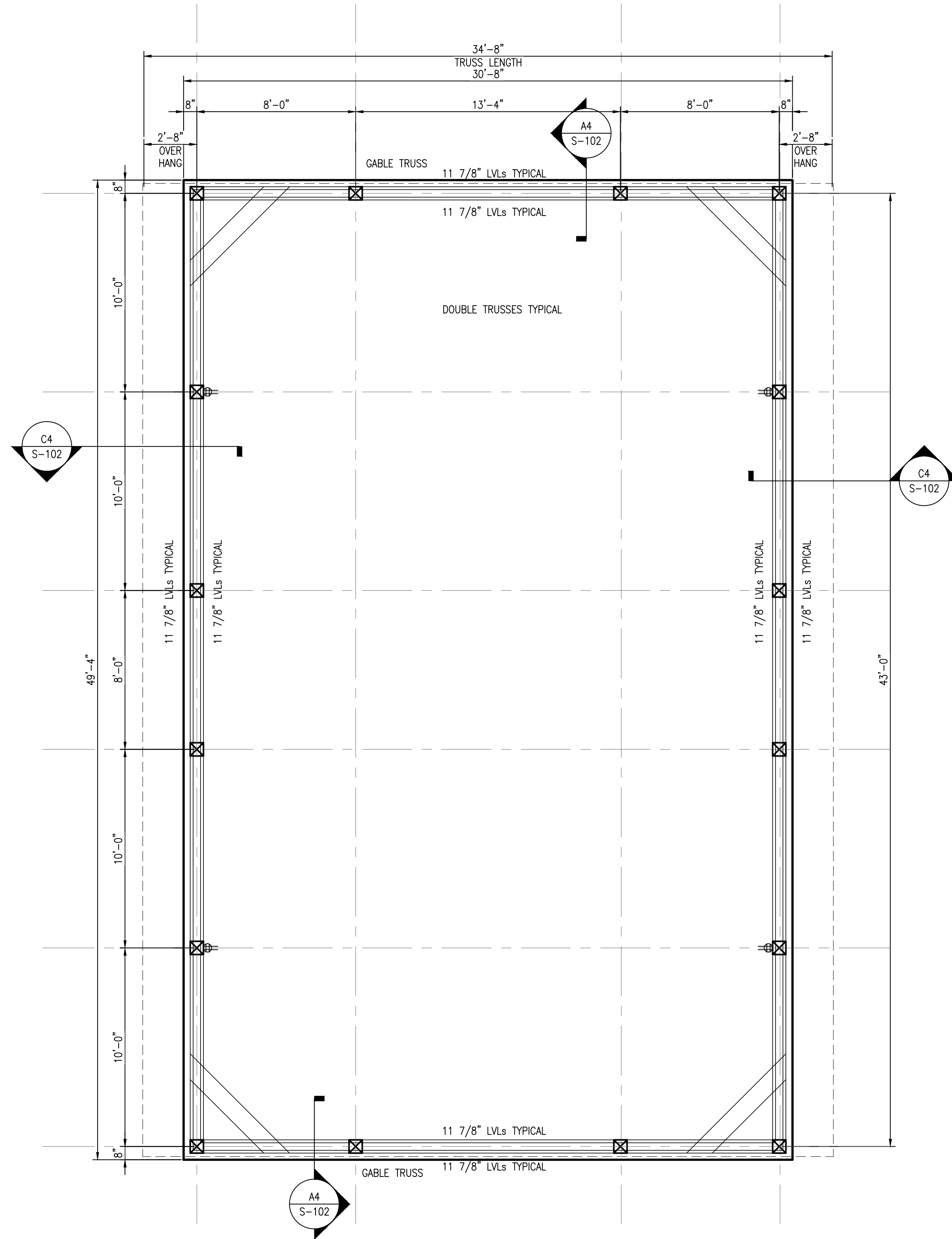
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SHEET TITLE:  
FOUNDATION/SLAB  
PLAN AND DETAIL  
MARCH 29, 2021

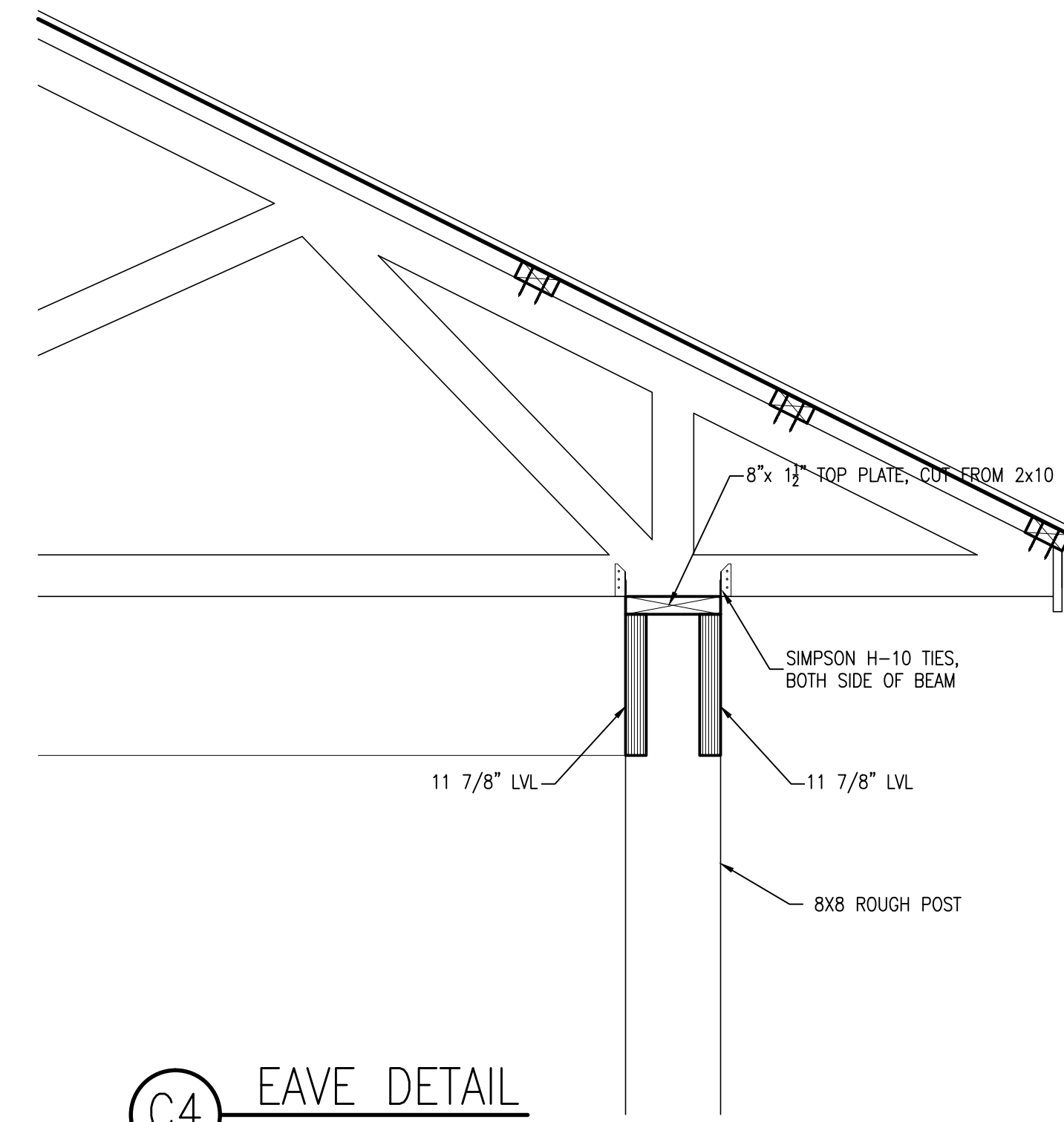
**S-101**  
SHEET 5 OF 6

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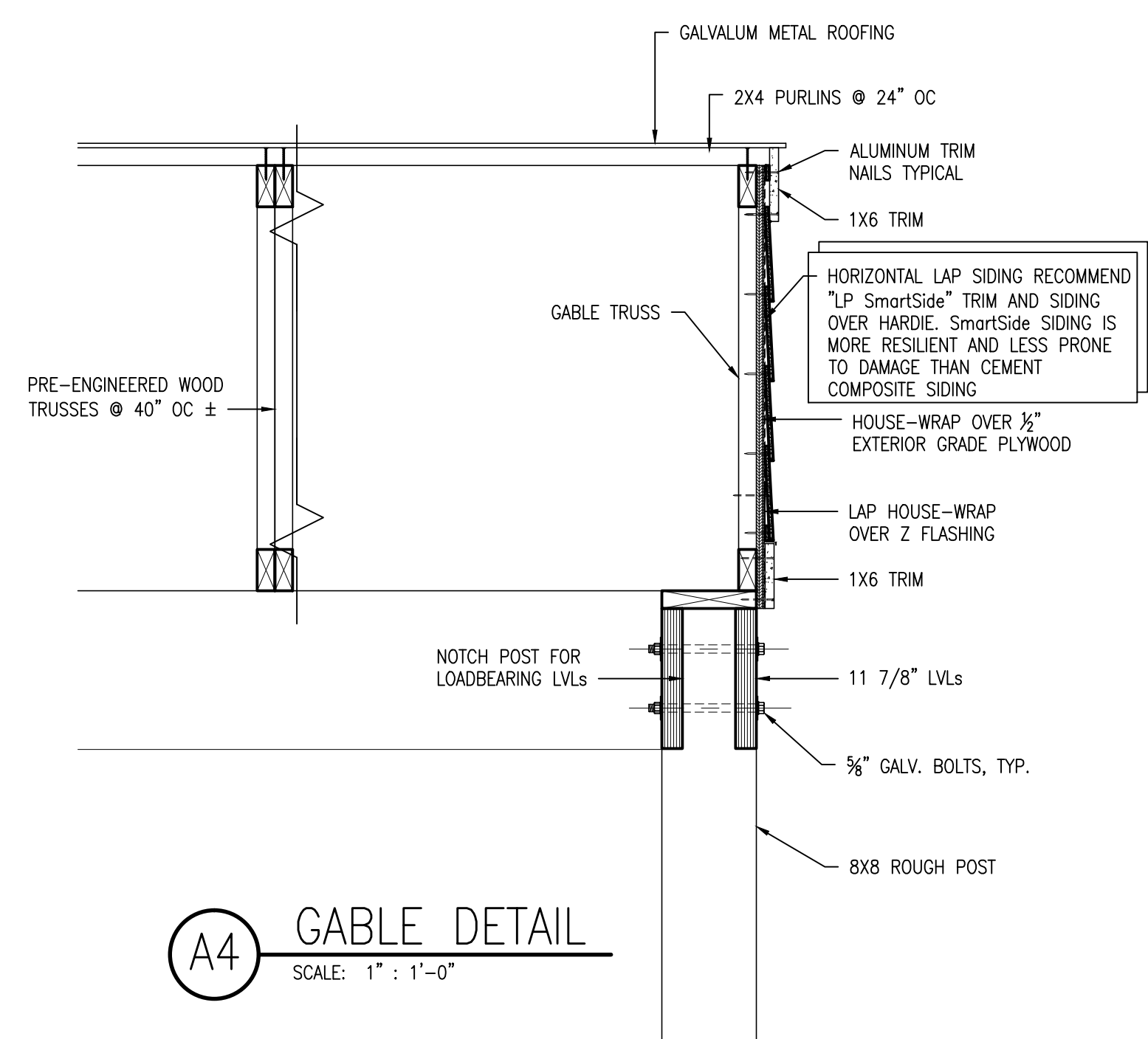
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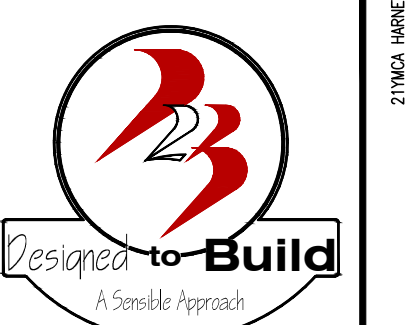
**A1** ROOF FRAMING PLAN  
SCALE: 1/4" : 1'-0"



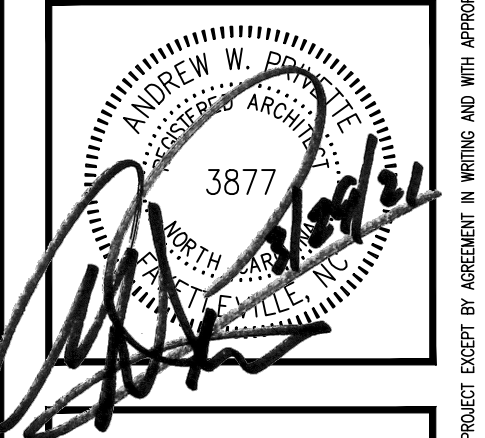
**C4** EAVE DETAIL  
SCALE: 1" : 1'-0"



**A4** GABLE DETAIL  
SCALE: 1" : 1'-0"



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MARK	DATE	DESCRIPTION	CHK

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SHEET TITLE:  
ROOF FRAMING PLAN  
AND ROOF DETAILS  
MARCH 29, 2021

**S-102**  
SHEET 6 OF 6

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