

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.ymca@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 1st 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 rd Floor			
2 nd Floor			
Mezzanine			
1 st 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 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASES ⁵	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³
1	UTILITY SHELTER	1,513	5,500	4,125	9,625

¹ 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 $I_f = 100[F/P - 0.25] \times W/30 = 75\%$
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
⁵ 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	

¹ 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				
Tenant Dwelling Unit/Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

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:

NOTICE TO CONTRACTOR
 All construction must comply with current NC Building Codes and is subject to field inspection and verification.
APPROVED
 Limited building only review.
 Permit holder responsible for full compliance with the code.
 04/22/2021



**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

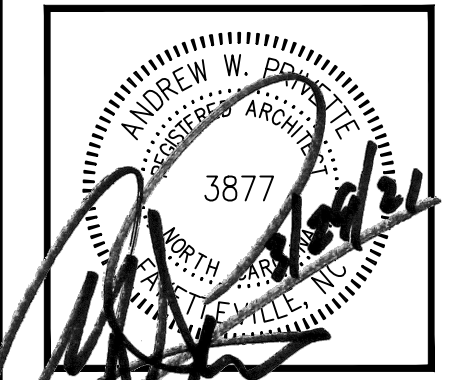
A-101 PLAN AND SPECIFICATIONS
 A-102 ELEVATIONS AND SECTIONS
 A-103 POST AND BEAMS DETAILS

STRUCTURAL

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



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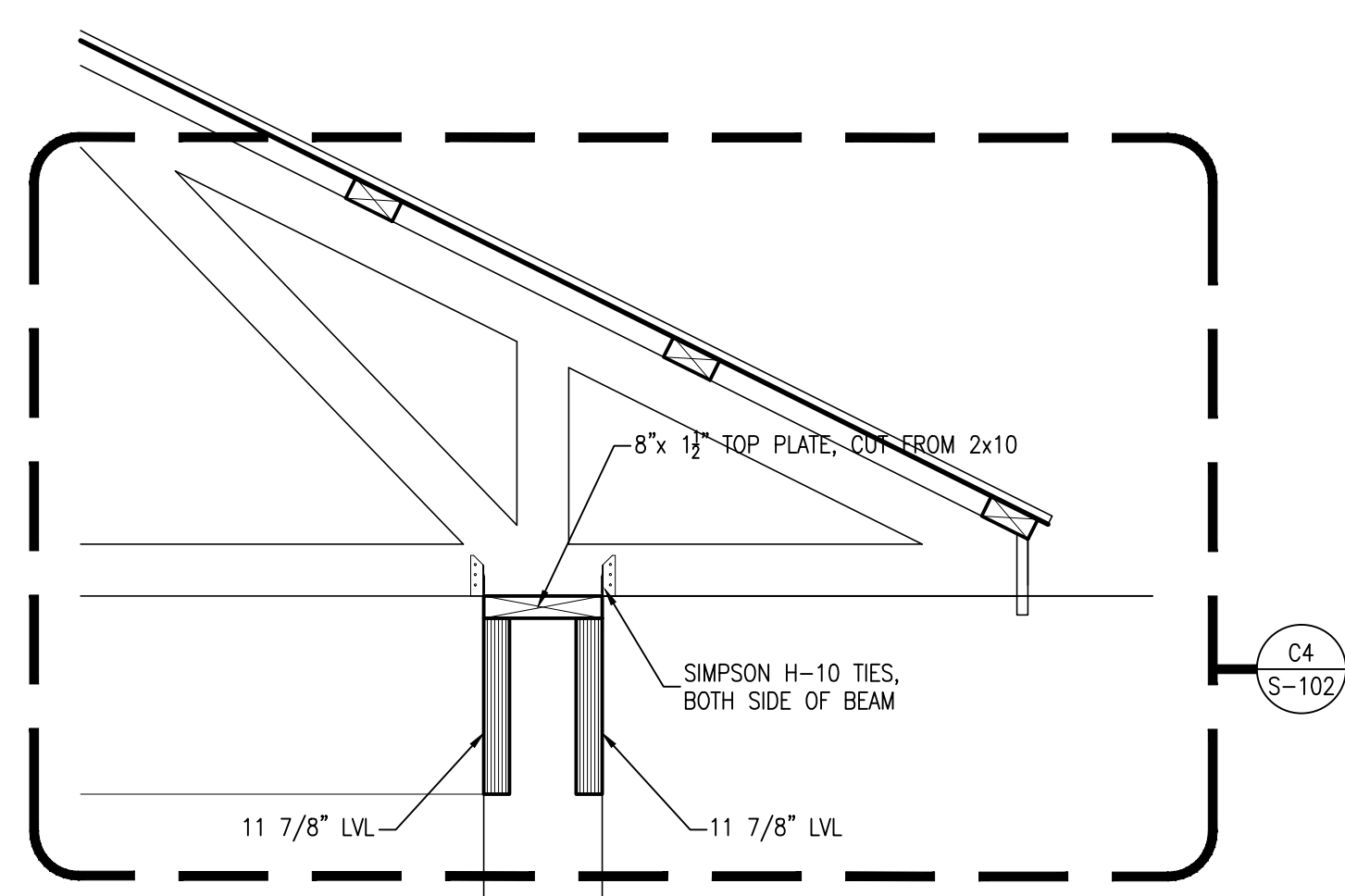
YMCA of the SANDHILLS
 HARNETT COUNTY SHELTER
 107 CARLETTA CAGLE DRIVE
 HARNETT COUNTY, NORTH CAROLINA

NO.	DATE	DESCRIPTION	CHK.

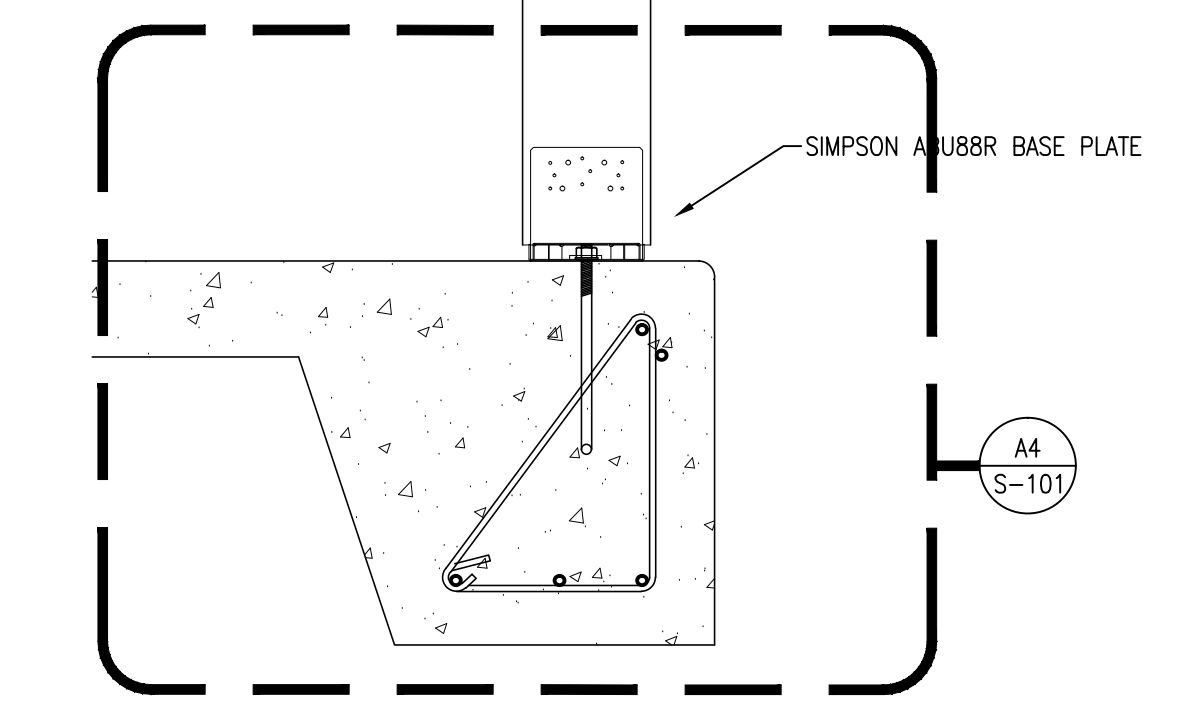
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 DRAWN BY: A. PRIVETTE
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SHEET TITLE:
CODE SUMMARY
 MARCH 29, 2021

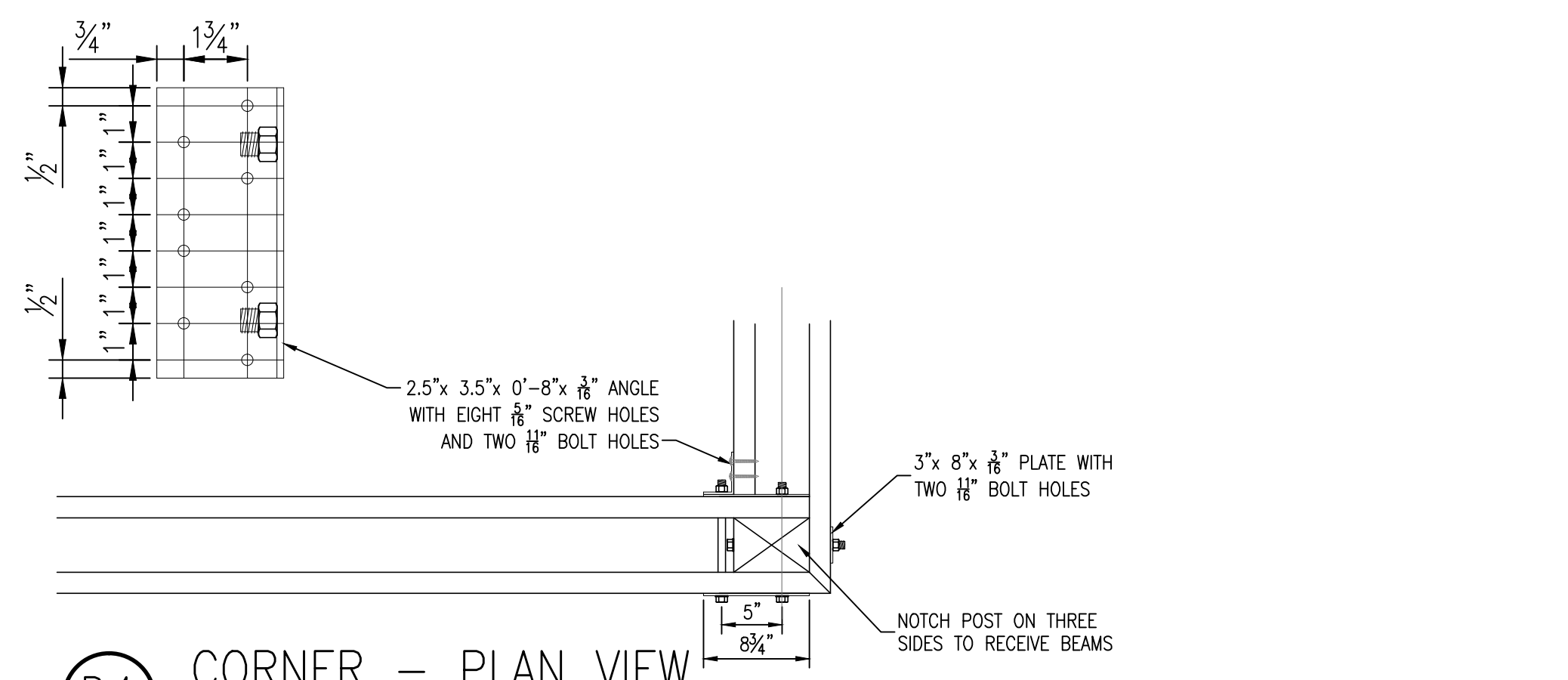
G-101
 SHEET 1 OF 6



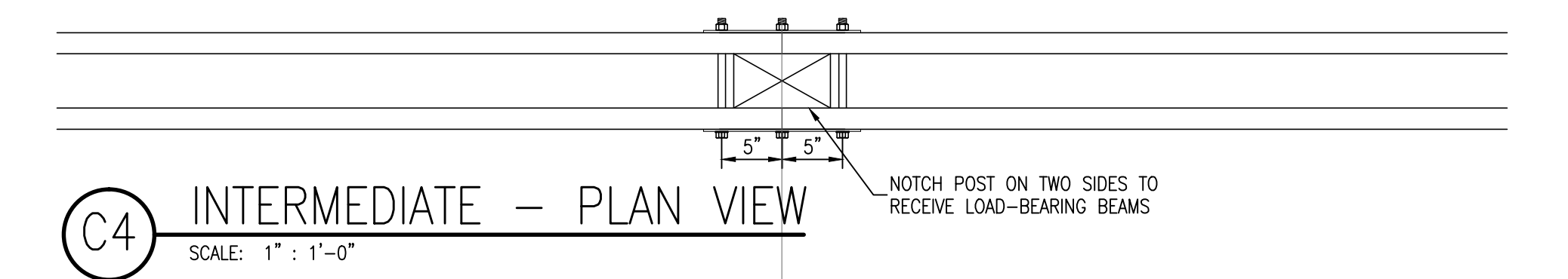
A1 POST AND BEAM DETAILS
SCALE: 1" : 1'-0"



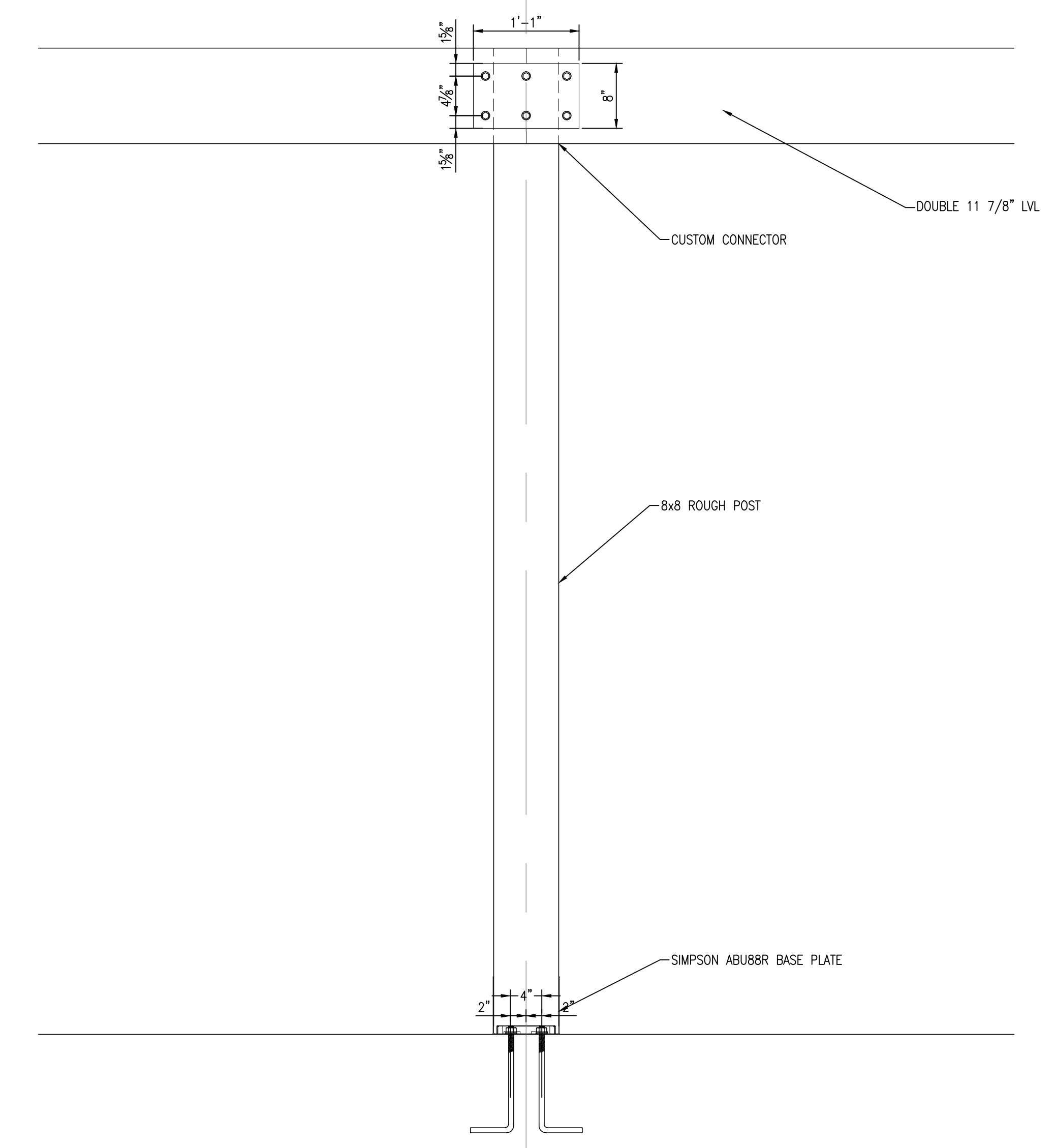
A4 POST AND BEAM DETAILS
SCALE: 1" : 1'-0"



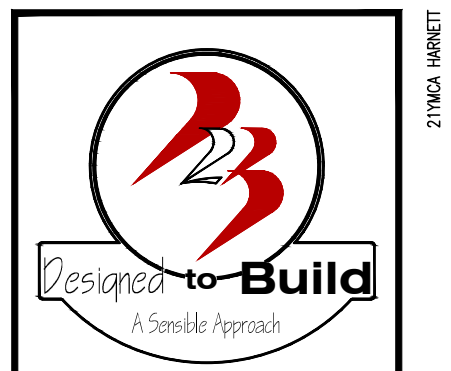
D4 CORNER - PLAN VIEW
SCALE: 1" : 1'-0"



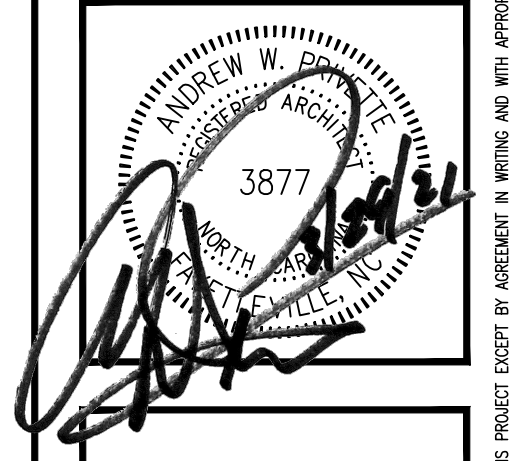
C4 INTERMEDIATE - PLAN VIEW
SCALE: 1" : 1'-0"



A4 POST AND BEAM DETAILS
SCALE: 1" : 1'-0"



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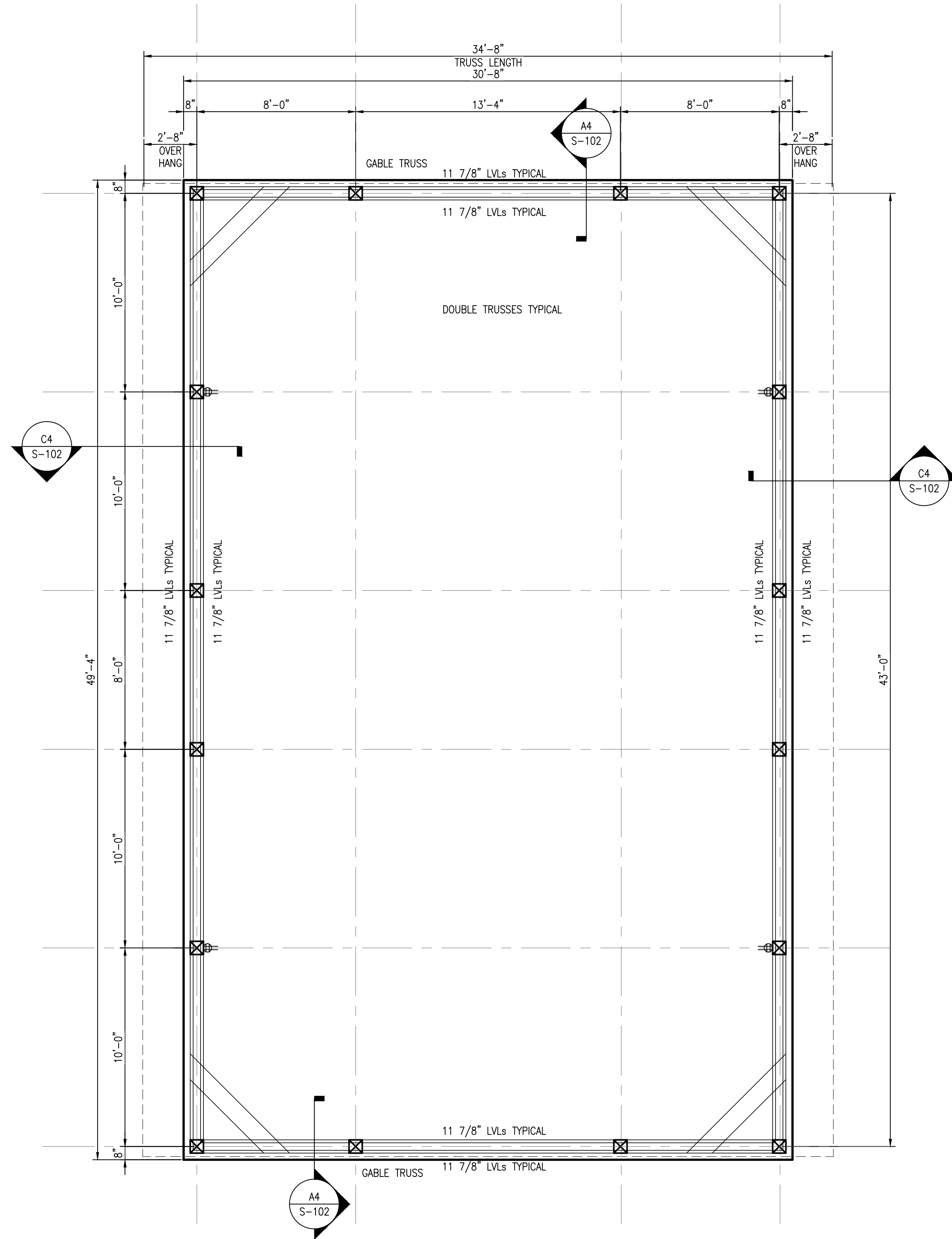
MARK	DATE	DESCRIPTION	CHK

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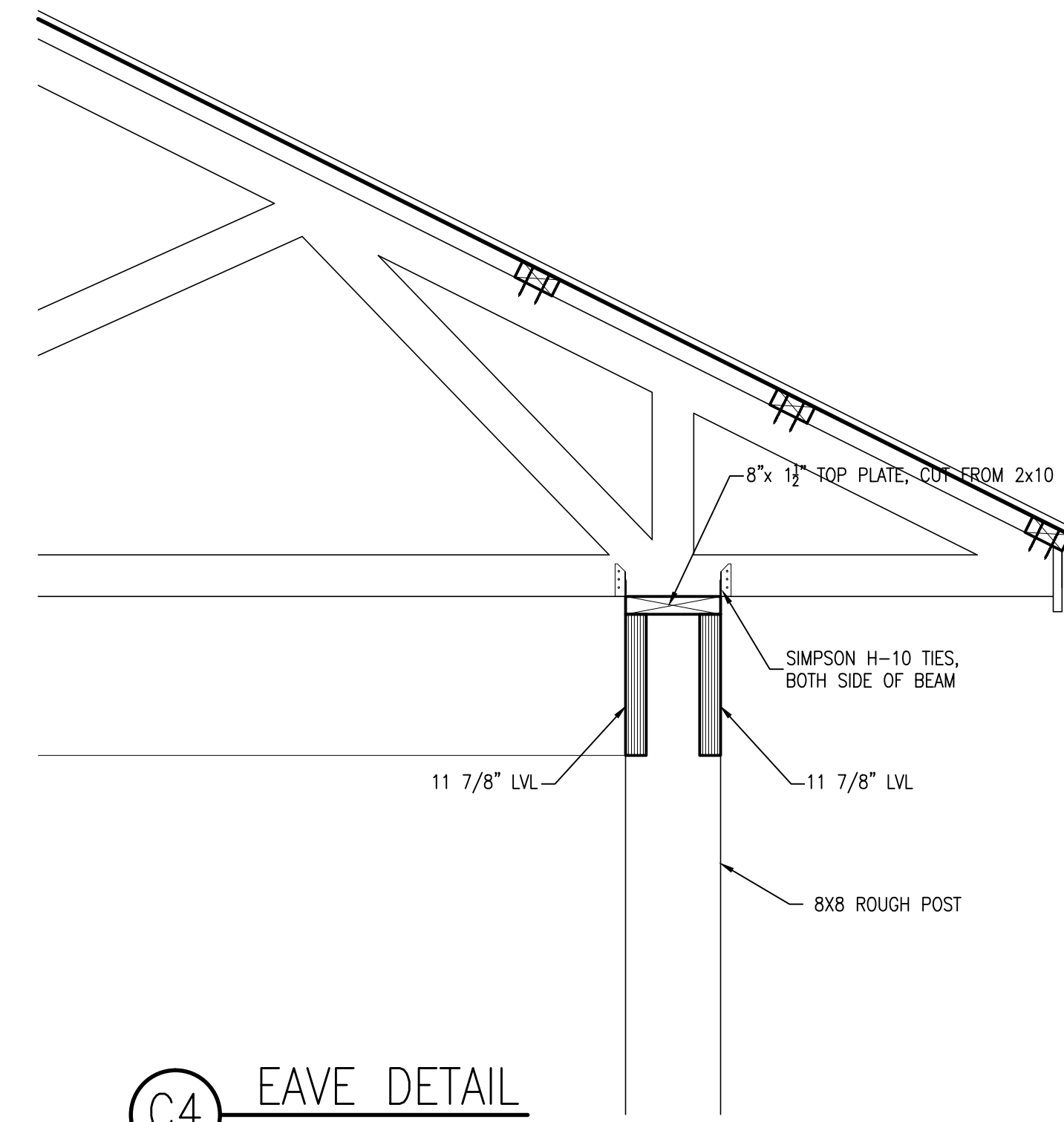
SHEET TITLE:
ENLARGED POST DETAILS
MARCH 29, 2021

A-301
SHEET 4 OF 6

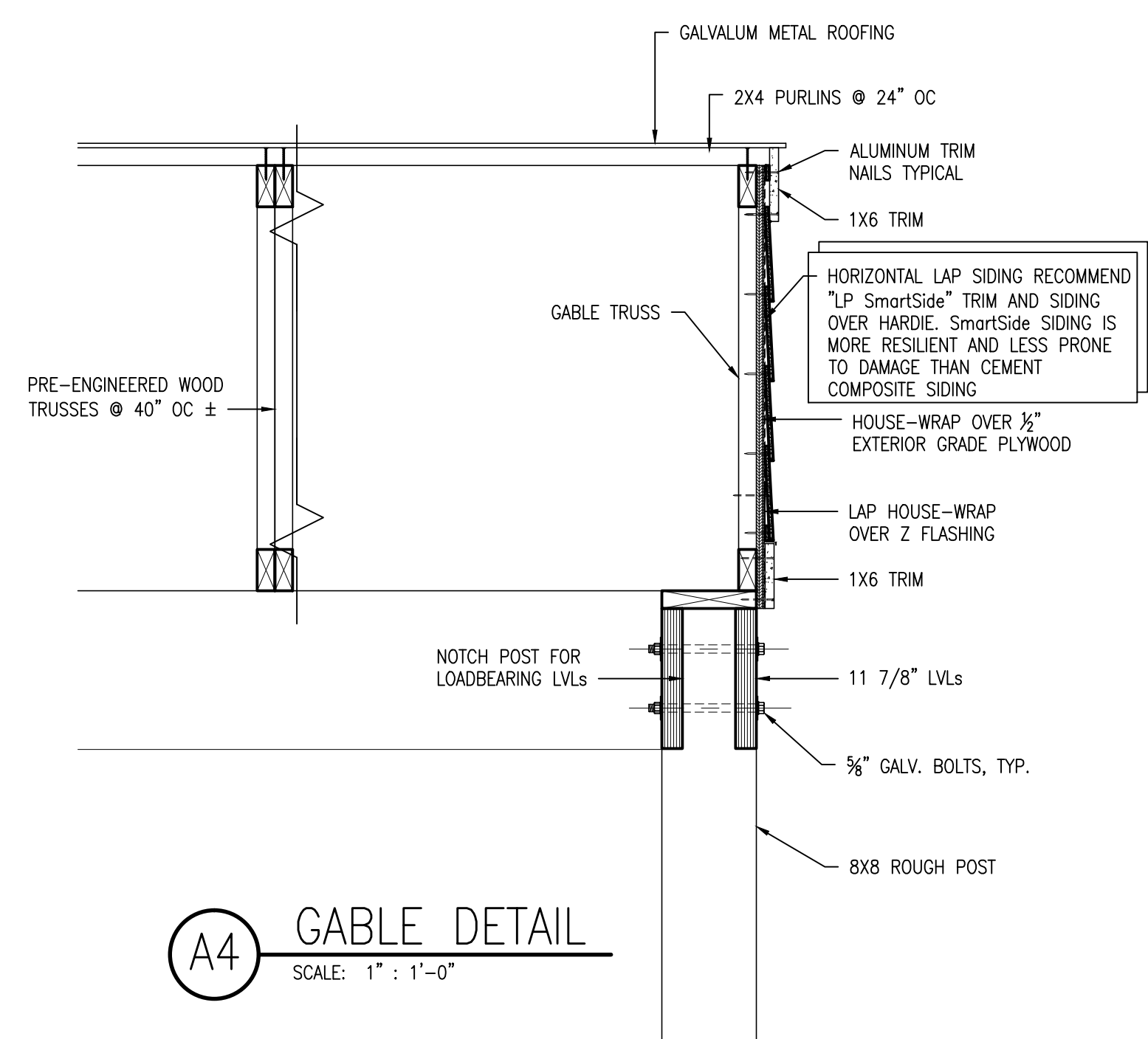
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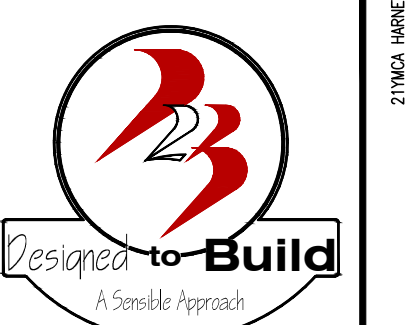
A1 ROOF FRAMING PLAN
SCALE: 1/4" : 1'-0"



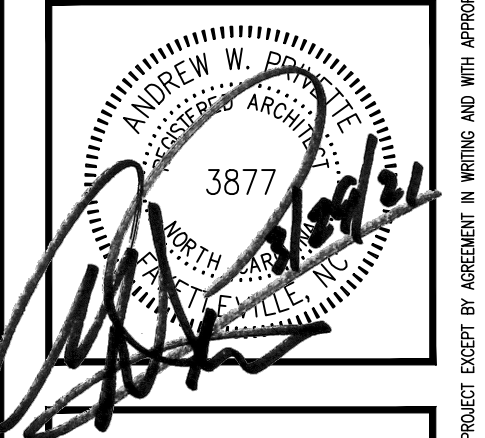
C4 EAVE DETAIL
SCALE: 1" : 1'-0"



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



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ROOF FRAMING PLAN
AND ROOF DETAILS
MARCH 29, 2021

S-102
SHEET 6 OF 6