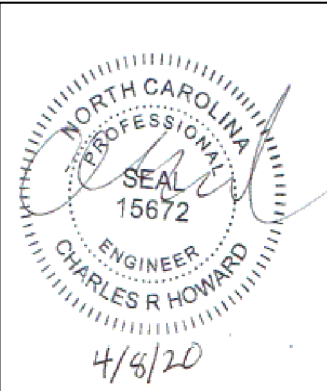


# ENKA Middle School

## Phase V Re-Roof

390 Asbury Rd.  
Candler, NC 28715



**Engineer:** Metal Roof Consultants, Inc. (NC Professional Corp. # C-3639)  
105 Versailles Drive  
Cary, NC 27511  
Charles R. Howard, PE  
(NC License # 15672)

REV	DATE	DESCRIPTION
0	4-07-19	SHOP DRAWINGS
1	2-24-20	SHOP DRAWINGS
2	4-08-20	SHOP DRAWINGS

**ENKA Middle School**  
Phase V Re-Roof  
390 Asbury Rd.  
Candler, NC 28715

**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: Enka Middle School Metal Retrofit Roof - Phase V  
Address: 390 Asbury Road, Candler, NC Zip Code: 28715  
Owner/Authorized Agent: Tim Fierle Phone # ( 828 ) 255-5916 E-Mail: tim.fierle@bcsemail.org  
Owned By:  Buncombe Co. Schools  City/County  Private  State  
Code Enforcement Jurisdiction:  City  County Buncombe  State

**CONTACT:**

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural					
Civil					
Electrical					
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural	<u>Metal Roof Consultants</u>	<u>Charles R. Howard</u>	<u>15672</u>	<u>(919) 465-1762</u>	<u>chuck@metalroofconsultants.com</u>
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  
 1<sup>st</sup> 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): Educational Group E  
RENOVATED: (date) \_\_\_\_\_ PROPOSED OCCUPANCY(S) (Ch. 3): Educational Group E

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.)

**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.

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

Exempt Building:  No  Yes (Provide code or statutory reference: Existing roof/insulation remain and are covered by a retrofit metal roof. No roof removal.)

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 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: \_\_\_\_\_  
slab heated: \_\_\_\_\_

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

**DESIGN LOADS:**

Importance Factors: Snow (lb) 1.1  
Seismic (lb) \_\_\_\_\_

Live Loads: Roof \_\_\_\_\_ psf  
Mezzanine \_\_\_\_\_ psf  
Floor \_\_\_\_\_ psf

Ground Snow Load: 20.0 psf

Wind Load: Ultimate Wind Speed 120 mph (ASCE-7)  
Exposure Category B

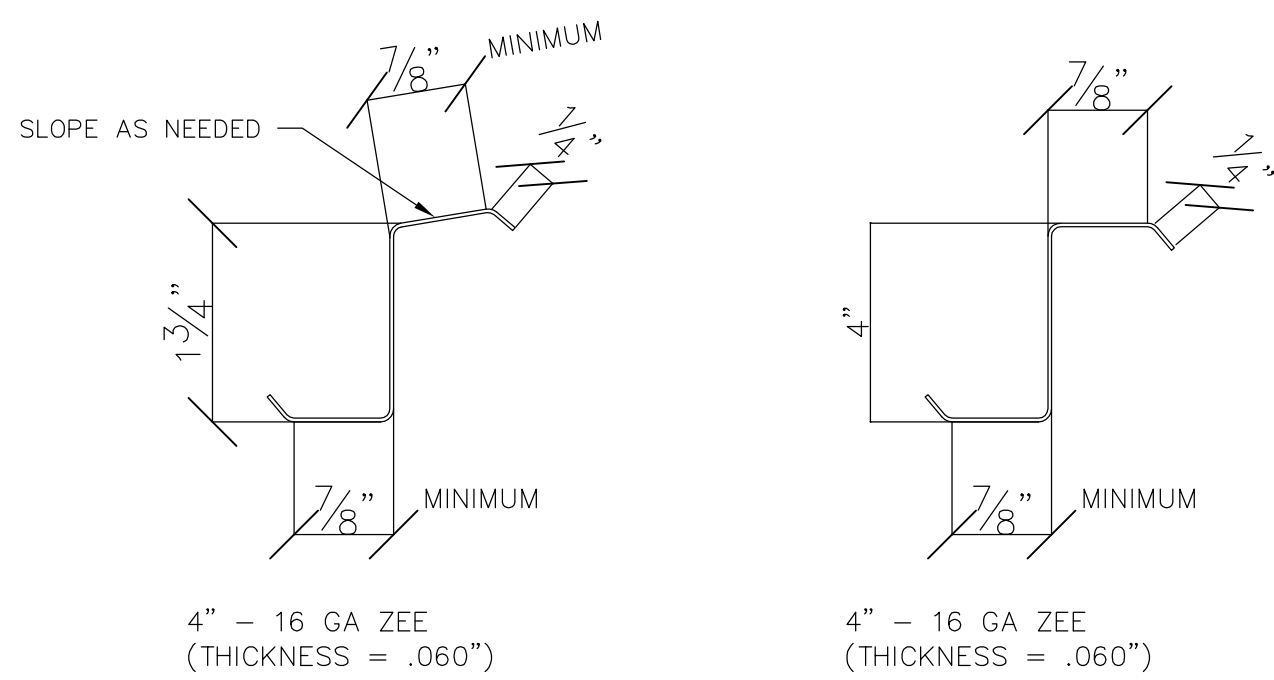
**SEISMIC DESIGN CATEGORY:**  A  B  C  D  
Provide the following Seismic Design Parameters:  
Risk Category (Table 1604.5)  I  II  III  IV  
Spectral Response Acceleration  $S_s$  \_\_\_\_\_ %g  $S_1$  \_\_\_\_\_ %g  
Site Classification (ASCE 7)  A  B  C  D  E  F  
Data Source:  Field Test  Presumptive  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 \_\_\_\_\_ psf  
Pile size, type, and capacity \_\_\_\_\_

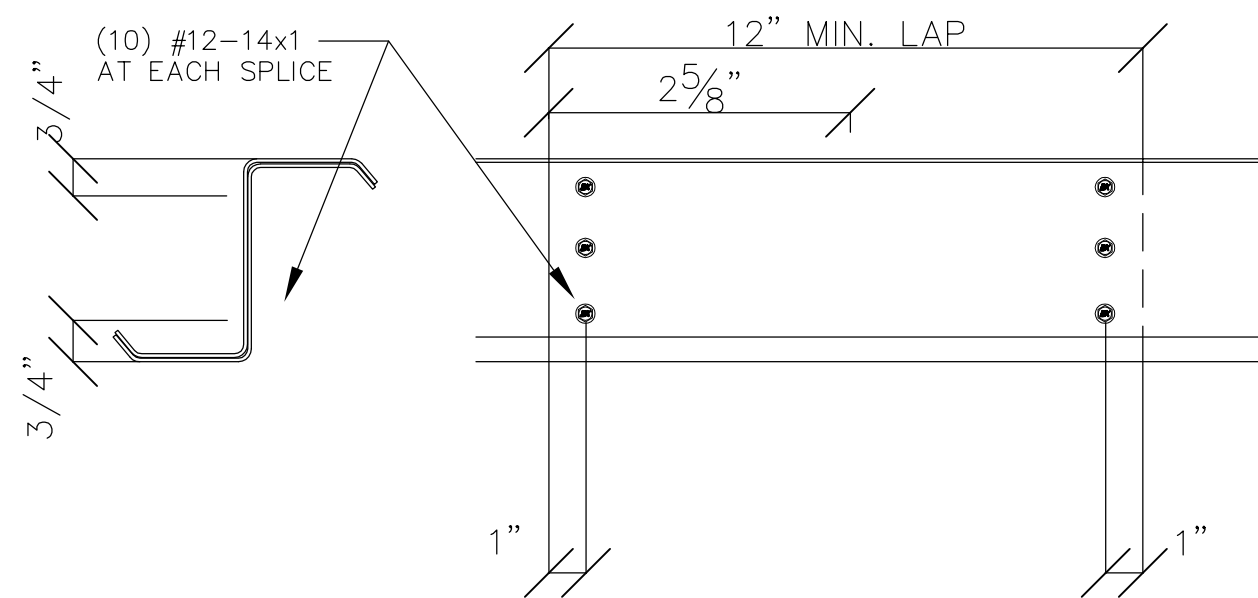
2018 NC Administrative Code and Policies

INDEX OF DRAWINGS	
Cover	Cover Page
001	Typical Components, Fasteners & Notes
100	Existing Framing Plan
200	Base Clip & Sleeper Plan
201	Purlin & Bracing Plan
202	Roof Framing Sections
203	Roof Framing Sections
204	Roof Framing Sections
205	Roof Framing Sections
300	New roof covering Plan
400	Roof Details
401	Roof Details
402	Roof Details
403	Typical gutter, downspout, Roof curb & VTR Roof Details

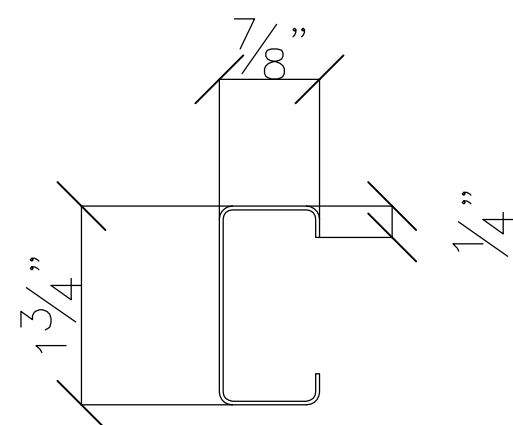


**1 4Z16 PURLIN**  
001 SCALE: N.T.S.

**2 4Z16 SLEEPER**  
001 SCALE: N.T.S.

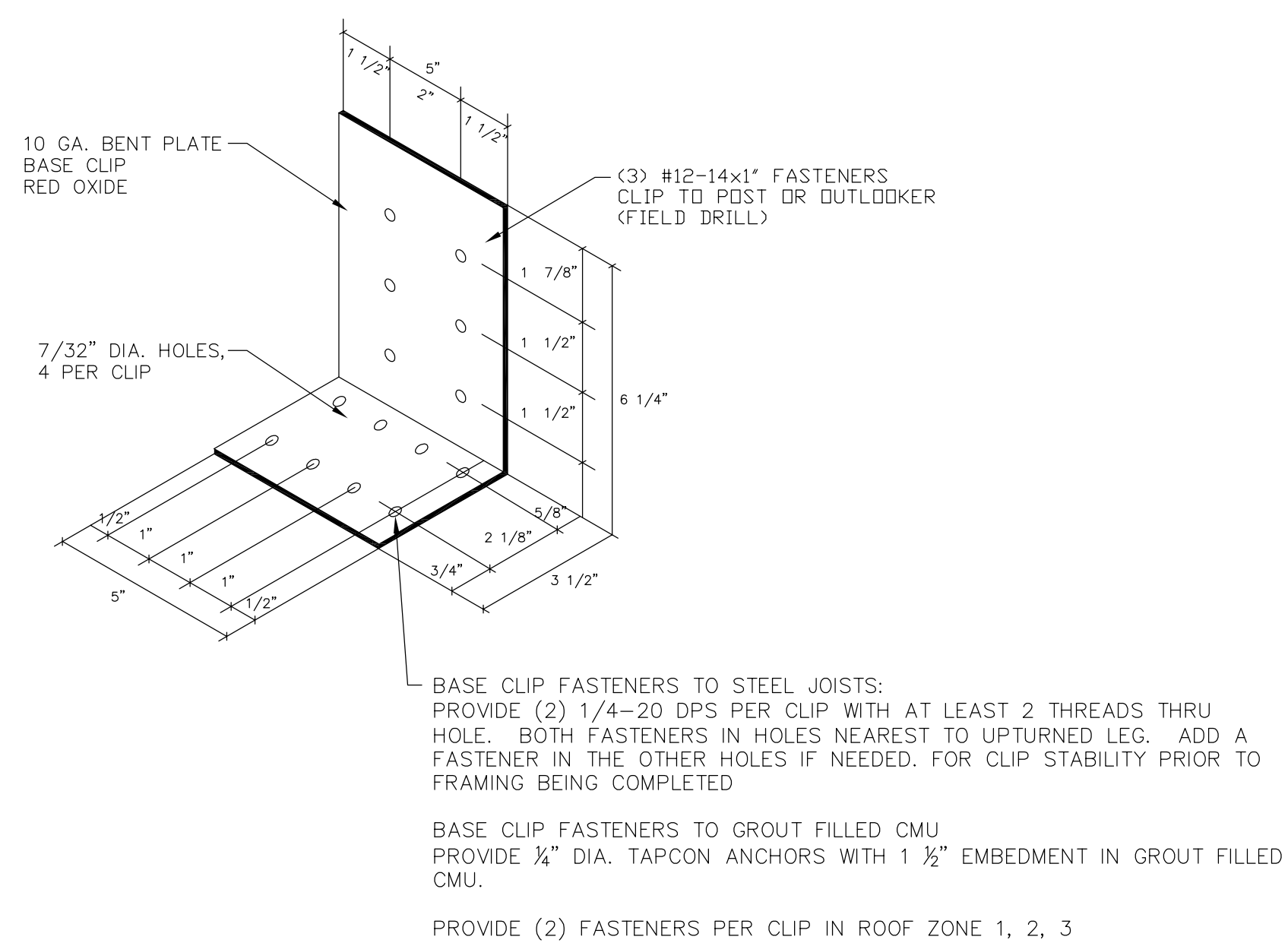


**3 TYPICAL PURLIN CONTINUOUS LAP SPLICE DETAIL**  
001 SCALE: N.T.S.



4\"/>

**5 4C16 POST AND BRACE**  
001 SCALE: N.T.S.



**4 10 GA BASE CLIP**  
001 NTS

**Metal Roof Consultants, Inc.**  
105 Versailles Drive  
Cary, NC  
919-465-1762

**JOB TITLE** Enka Middle - Phase V  
**MRC**  
**JOB NO.** Single Slope **SHEET NO.**  
**CALCULATED BY** CRH **DATE** 2/19/20  
**CHECKED BY** CRH **DATE** 2/19/20

**Wind Loads - Components & Cladding : h ≤ 60'**

Kh (case 1) = 0.70 h = 18.0 ft  
Base pressure (qh) = **13.2 psf** a = 5.1 ft  
Minimum parapet ht = 0.0 ft GCpi = +/-0.18  
Roof Angle (θ) = 2.4 deg  
Type of roof = Gable

Nominal Wind Pressures  
Ultimate Wind Speed = 120 mph  
Nominal Wind Speed = 93 mph

Roof Area	GCp +/- GCpi				Surface Pressure (psf)			
	10 sf	50 sf	100 sf	500 sf	10 sf	50 sf	100 sf	500 sf
Negative Zone 1	-1.18	-1.11	-1.08	-1.08	-15.5	-14.6	-14.2	-14.2
Negative Zone 2	-1.98	-1.49	-1.28	-1.28	-26.1	-19.6	-16.9	-16.9
Negative Zone 3	-2.98	-1.79	-1.28	-1.28	-39.3	-23.6	-16.9	-16.9
Positive All Zones	0.48	0.41	0.38	0.38	10.0	10.0	10.0	10.0
Overhang Zone 1&2	-1.7	-1.63	-1.6	-1.1	-22.4	-21.5	-21.1	-14.5
Overhang Zone 3	-2.8	-1.4	-0.8	-0.8	-36.9	-18.4	-10.5	-10.5

Overhang pressures in the table above assume an internal pressure coefficient (GCpi) of 0.0  
Overhang soffit pressure equals adj wall pressure (which includes internal pressure of 2.4 psf)

User input	
10 sf	300 sf
-15.5	-14.2
-26.1	-16.9
-39.3	-16.9
10.0	10.0
-22.4	-16.6
-36.9	-10.5

Walls Area	GCp +/- GCpi				Surface Pressure (psf)			
	10 sf	100 sf	200 sf	500 sf	10 sf	100 sf	200 sf	500 sf
Negative Zone 4	-1.17	-1.01	-0.96	-0.90	-15.4	-13.3	-12.7	-11.9
Negative Zone 5	-1.44	-1.12	-1.03	-0.90	-19.0	-14.8	-13.5	-11.9
Positive Zone 4 & 5	1.08	0.92	0.87	0.81	14.2	12.1	11.5	10.7

Note: GCp reduced by 10% due to roof angle <= 10 deg.

User input	
50 sf	200 sf
-13.9	-12.7
-16.0	-13.5
12.8	11.5

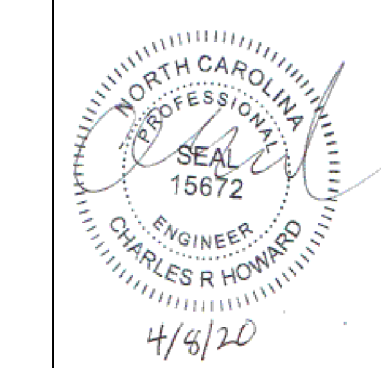
**Structural Notes:**

- All light gauge framing to be equal to ASTM A1011, grade 55 with minimum yield strength of 55 KSI. All zeos and cees and angles used for framing shall conform to the minimum dimensions shown on the drawings.
- All banding to be 1 1/4" x .031 strapping by SIGNODE. Provide strait banding across the tops of purlins at post lines where indicated, approximately 8'-0" o.c.. Banding shall be attached to the tops of purlins with #12-14 DP3 Pancake Head Concealors.
- All sleeper zeos for this project to be 4" x 2" x 16 GA. Attached to base clips or posts with (3) #12-14 DP3's.
- All purlins for this project to be 4" x 2" x 16 G.A. Zees and all posts shall be 4" x 2" x 16 GA. Purlin spacing may not exceed 5'-0" O.C. Purlins shall be furnished in lengths to allow for a minimum or three continuous spans. See framing plan for purlin layout.
- All base clips shall be 3" x 5" x 14 GA. x 5 1/2" long.
- Screws for attaching base clips to steel joists shall be 1/4-20 DP5 by Triangle Fastener.
- All Framing screws shall be #12-14 DP3 with an ultimate shear strength in 16 GA. material of at least 1,620 lbs.
- Provide 4C16 Rake kickers at all rakes where the purlin height is greater than 4'-0", provide cross banding at heights less than 4'-0".
- Provide intermediate lateral bracing at purlin lines not to exceed 40' O.C. For post heights greater than 4'-0" use 3" x 3" x 16 GA. angle, provide banding at heights less than 4'-0".
- The contractor shall notify the engineer of any existing conditions that may require a change in the structural requirements prior to making changes.

**GENERAL NOTES:**

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO FABRICATION OF METAL FRAMING AND SHALL NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES OR UNUSUAL CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE ADDITIONAL FRAMING AS REQUIRED TO RAISE EXISTING MECHANICAL UNITS TO THE NEW ROOF LEVEL. THE WEIGHT OF THE EXISTING MECHANICAL UNITS SHALL BE TRANSFERRED THROUGH THE NEW FRAMING TO BEAR AT THE EXISTING SUPPORT LOCATIONS ON THE EXISTING STRUCTURE.
- ALL LIGHT GAGE METAL FRAMING AND CONNECTING CLIPS SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A1011 WITH A YIELD STRENGTH OF 55 KSI.
- ALL BANDING SHALL BE 1 1/4" x .029 STEEL STRAP BY SIGNODE.
- BANDING SHALL BE INSTALLED AT ALL POST LINES. WHERE PURLIN SPANS EXCEED 6'-0" INSTALL BANDING AT MID-SPAN OF PURLIN. FASTEN BANDING TO ALL PURLINS WITH (1) #12-14 CONCEALOR SCREW.
- ALL PURLINS SHALL BE PROVIDED IN LENGTHS SUFFICIENT FOR (3) CONTINUOUS SPANS.
- ALL 18 GA RIDGE ZEEs SHALL BE BUTTED AT SPLICES ON POST CENTERLINES. DO NOT LAP SPLICE RIDGE PURLINS.
- INSTALL ALL SELF DRILLING SCREWS WITH 3/4" MINIMUM EDGE DISTANCE TO ALL EDGES OF STEEL MEMBERS AND 3/4" MINIMUM ON CENTER SPACING BETWEEN SCREWS.
- ALL 16 GA. TO 16 GA. MEMBERS SHALL BE FASTENED WITH (3) #12 - 14 x 1" AT EACH CONNECTION

PANEL SCHEDULE												
<p>DESCRIPTION: STANDING SEAM ROOF PANEL GAUGE: 24 GA Texture: STRIATED Color: T.B.D.</p> <p><b>ROOF PANEL</b></p>			<p>DESCRIPTION: METAL WALL PANEL GAUGE: 26 GA Color: T.B.D.</p> <p><b>WALL PANEL</b></p>			<p>DESCRIPTION: METAL SOFFIT PANEL GAUGE: 24 GA Color: T.B.D.</p> <p><b>SOFFIT PANEL</b></p>						
FASTENER SCHEDULE												
FASTENED MATERIAL	FLASHING & CLEAT ATTACHMENT TO WOOD BLOCKING	SLOTTED RAKE ANGLE TO 16 GA FRAMING (CENTER IN SLOT)	BANDING OR 24 GA FLASHING TO 16 GA FRAMING	16 GA TO 16 GA OR 14 GA FRAMING	24 GA ROOF PANEL OR FLASHING TO 24 GA PANEL OR FLASHING TO 16 GA FRAMING ALL LOCATIONS WHERE FASTENER HEAD IS EXPOSED TO WEATHER	24 GA ROOF PANEL OR FLASHING TO 16 GA FRAMING ALL LOCATIONS WHERE FASTENER HEAD IS EXPOSED TO WEATHER	RAKE ANGLE OFFSEET EAVE PLATE, HAT CHANNELS ATTACHMENT TO WOOD BLOCKING	14 GA. BASE CLIP TO STRUCTURAL STEEL JOIST OR BEAM	BASE CLIP OR FLASHING TO CONCRETE DECK OR MASONRY	BASE CLIP TO WOOD BLOCKING OR WOOD JOIST	12-24x1-1/2 TEKS/5 ATTACH ANYTHING TO 1/2\"/>	
FASTENER TYPE	#10-11x 1\"/>											

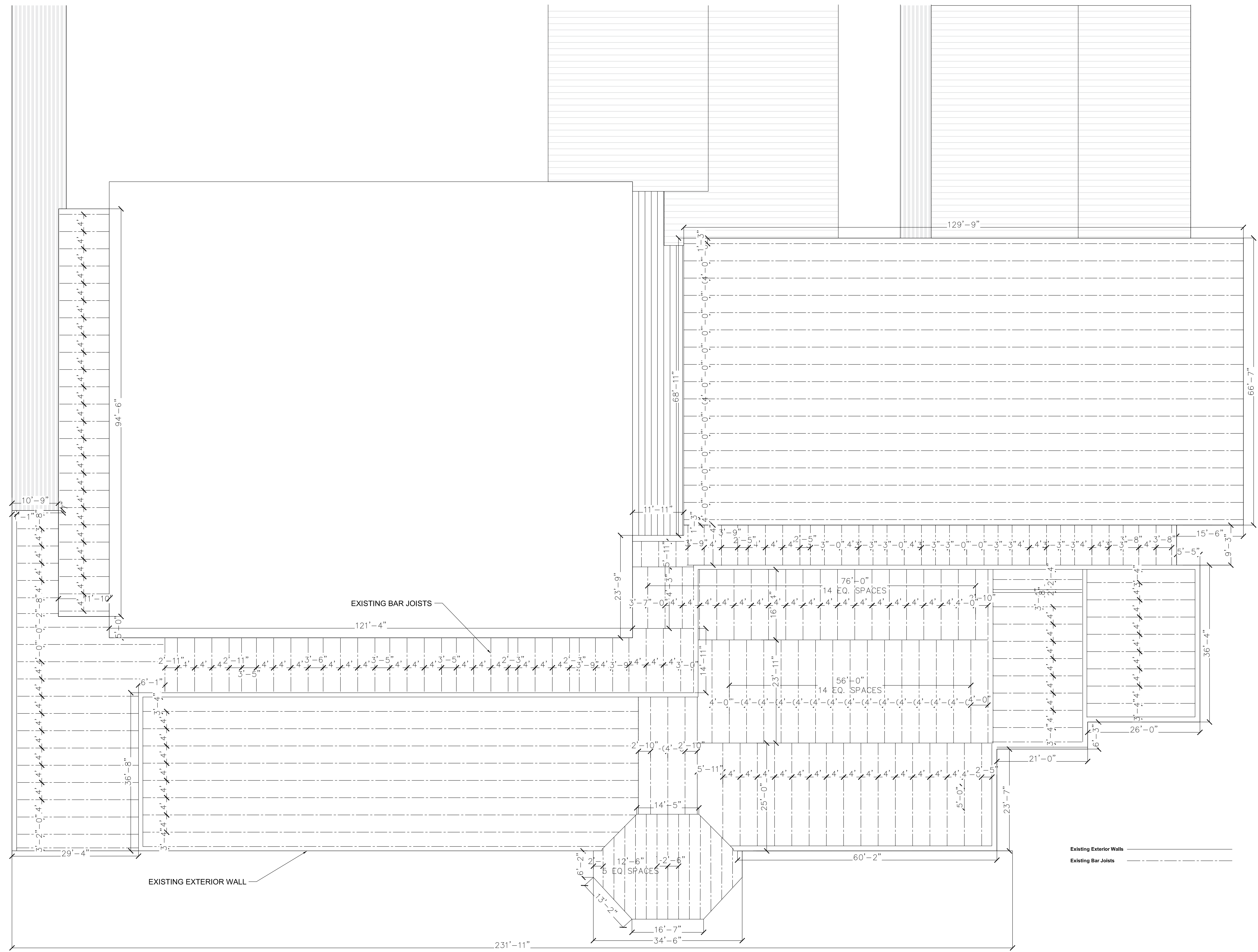


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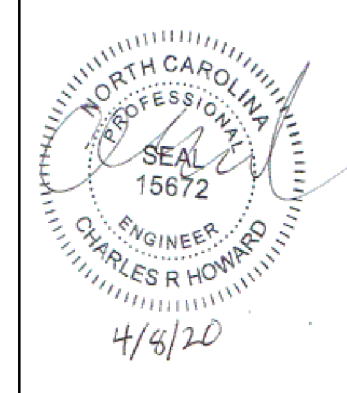
**ENKA Middle School**  
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**Components & General Notes**

**001**



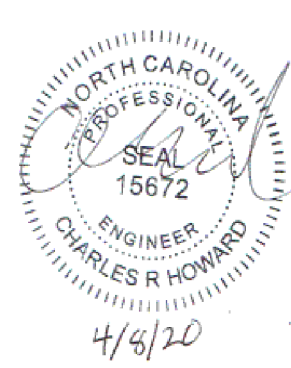
1 EXISTING FRAMING PLAN  
1/8" = 1'-0"



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2	4-08-20	SHOP DRAWINGS

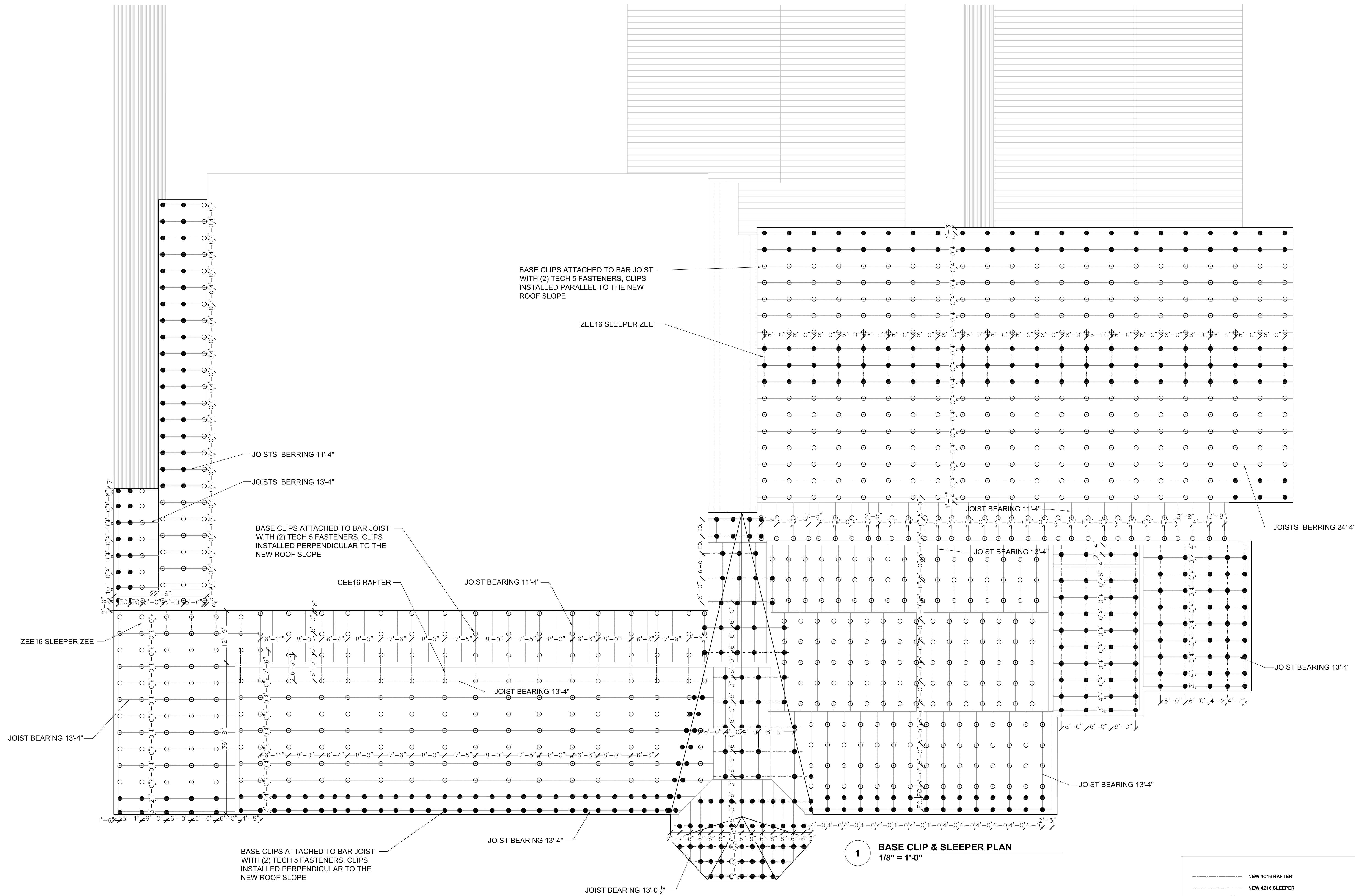
**ENKA Middle School**  
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Existing Roof Framing Plan



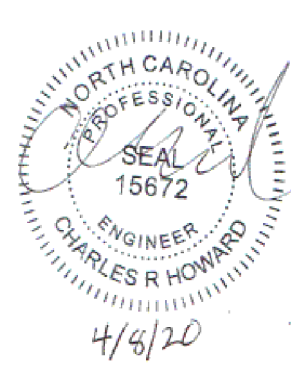
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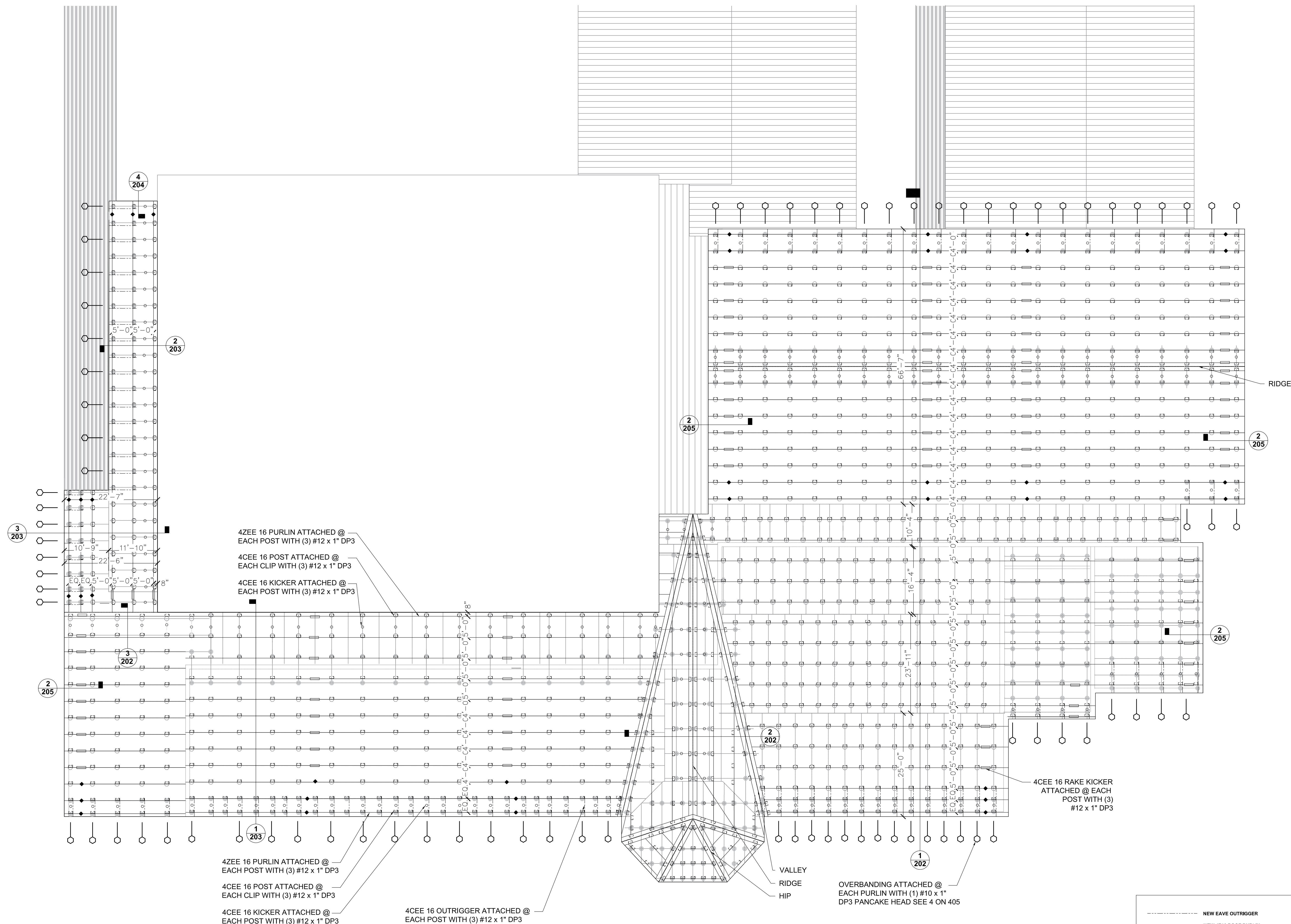
**1** BASE CLIP & SLEEPER PLAN  
1/8" = 1'-0"

- NEW 4C16 RAFTER
- NEW 4Z16 SLEEPER
- NEW 2.5" x 4" CEE POST
- KICKER 4C16
- OVERBANDING
- ◆ CROSS BRACE BANDING OR ANGLE
- RAKE KICKER LOCATION 4C16
- NEW BASE CLIP PERPENDICULAR TO SLOPE
- NEW BASE CLIP PARALLEL TO SLOPE



REV	DATE	DESCRIPTION
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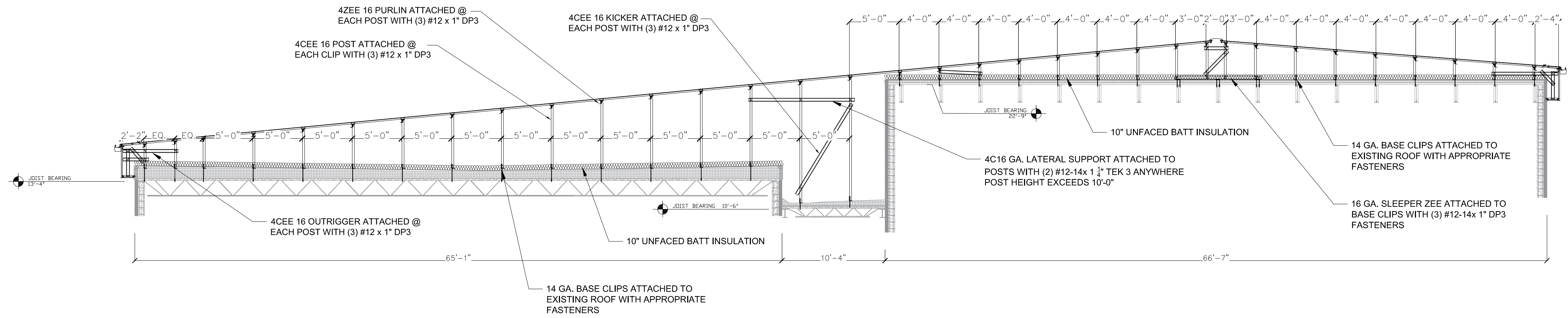
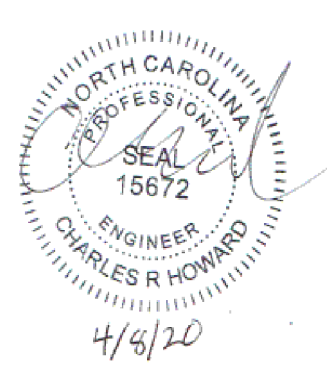
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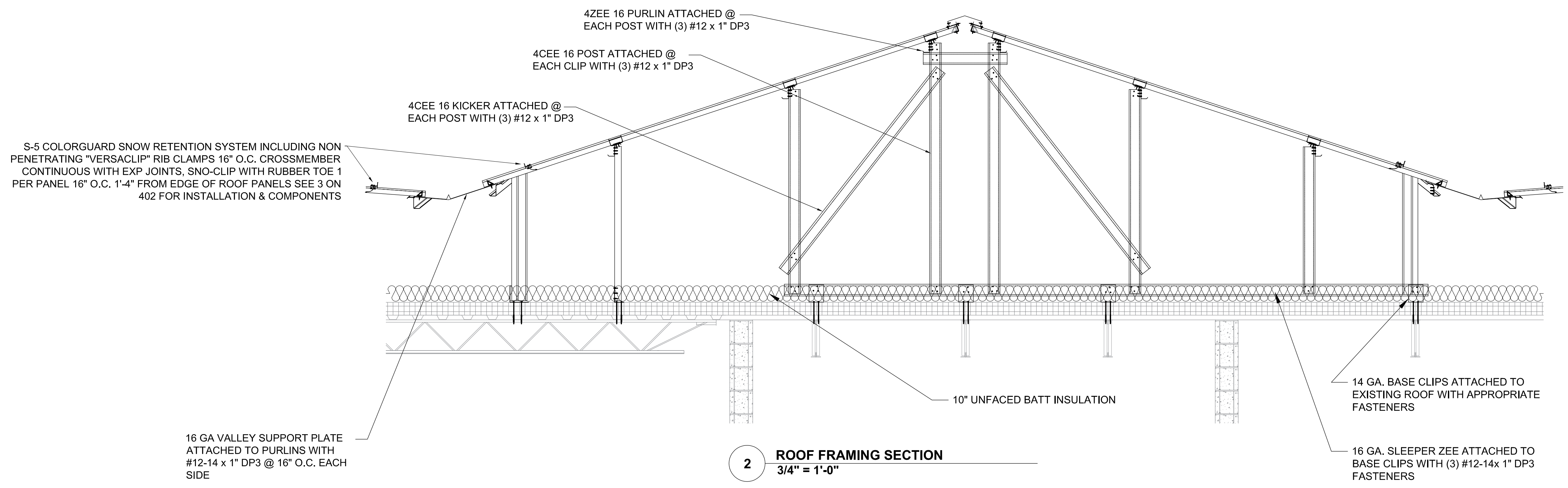
**1 PURLIN & BRACING PLAN**  
 1/8" = 1'-0"

- NEW EAVE OUTRIGGER
- NEW 4216 ROOF PURLIN
- NEW 2.5" x 4" CEE POST
- KICKER 4C16
- OVERBANDING
- ◆ CROSS BRACE BANDING OR ANGLE
- RAKE KICKER LOCATION 4C16
- NEW BASE CLIP PERPENDICULAR TO SLOPE
- NEW BASE CLIP PARALLEL TO SLOPE

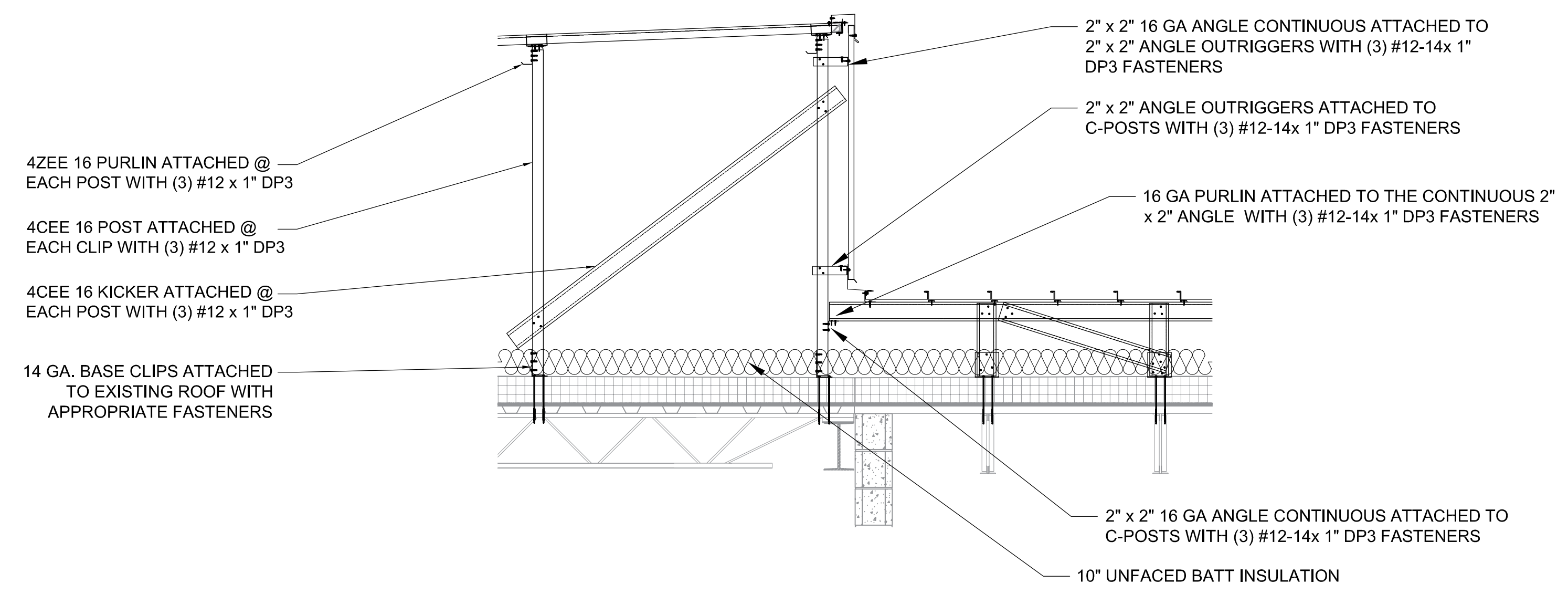
**Purlin & Bracing Plan**



**1 ROOF FRAMING SECTION**  
1/4" = 1'-0"



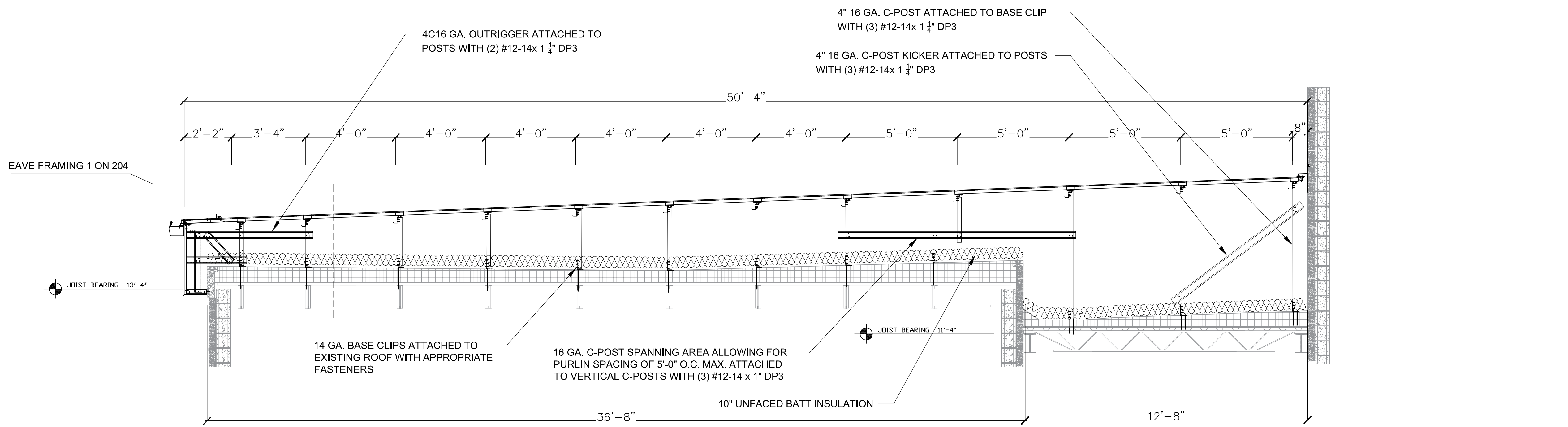
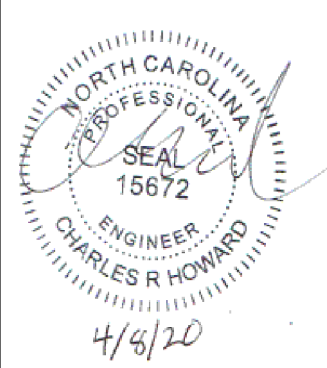
**2 ROOF FRAMING SECTION**  
3/4" = 1'-0"



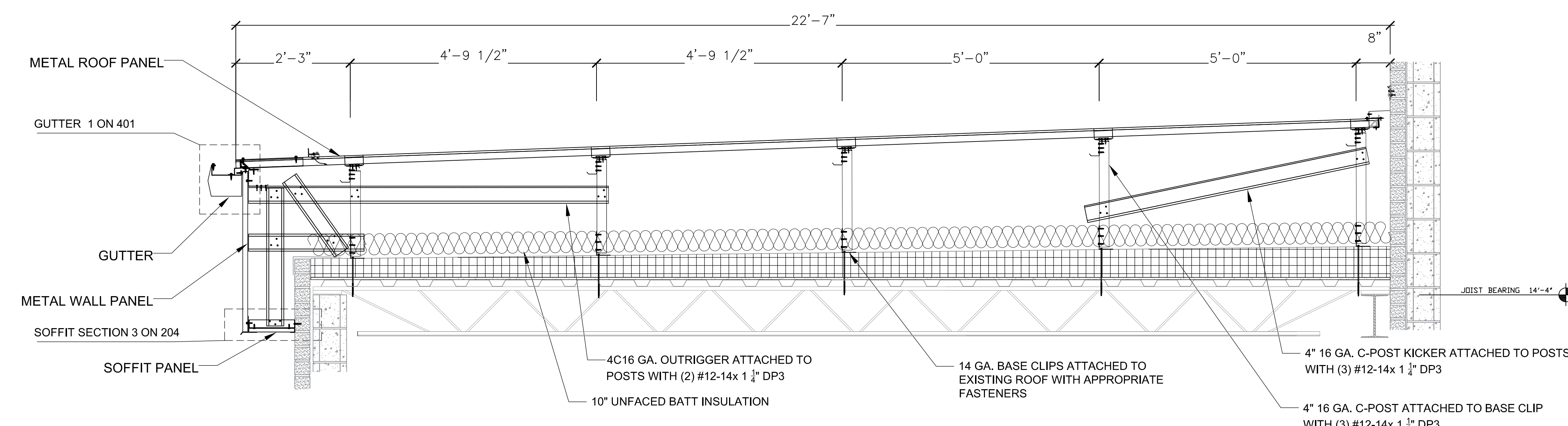
**3 ROOF FRAMING SECTION**  
3/4" = 1'-0"

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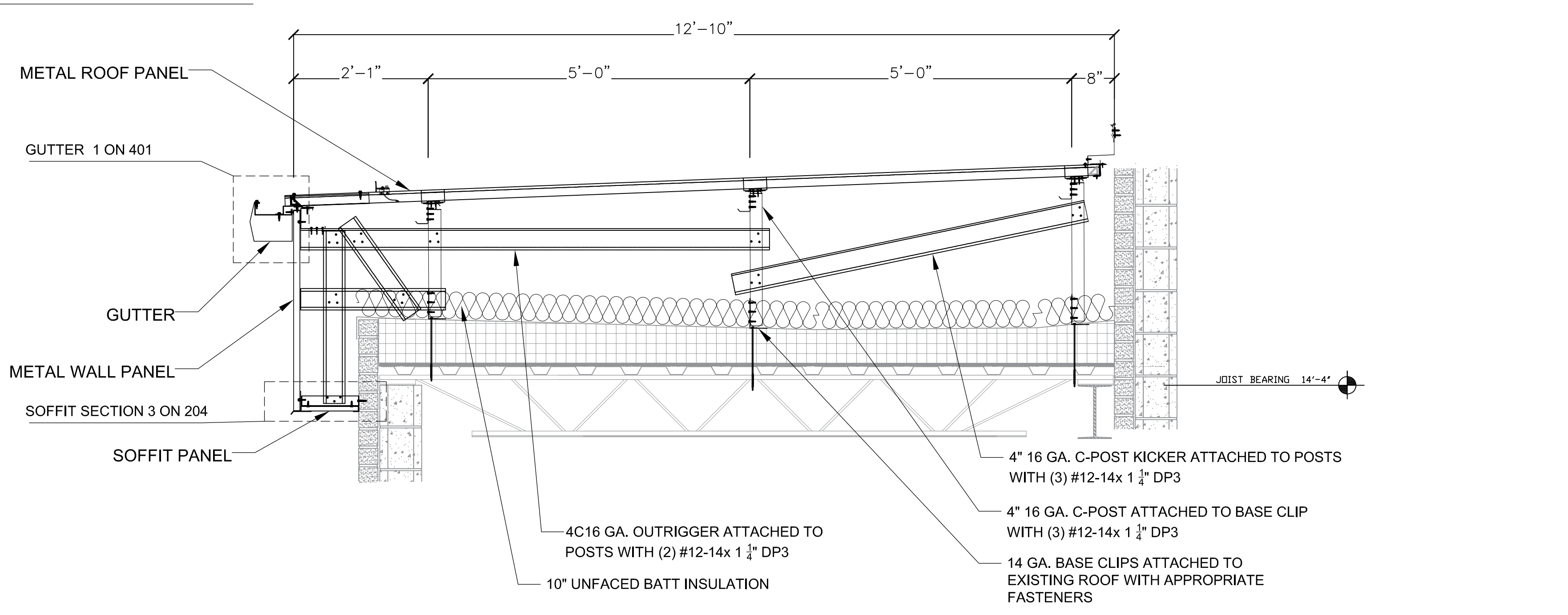
**ENKA Middle School**  
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**1 ROOF FRAMING SECTION**  
1/2" = 1'-0"



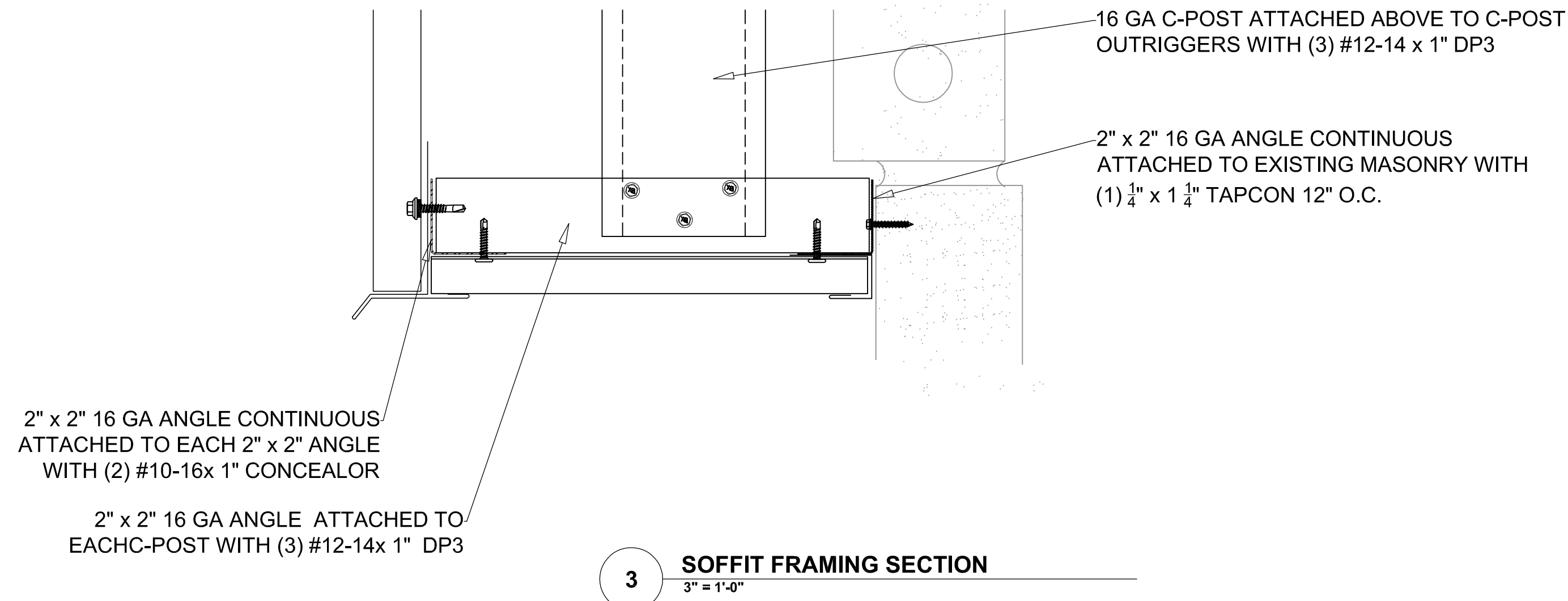
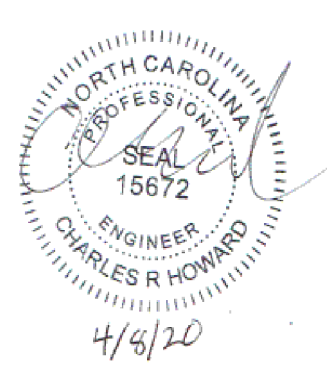
**3 ROOF FRAMING SECTION**  
1" = 1'-0"



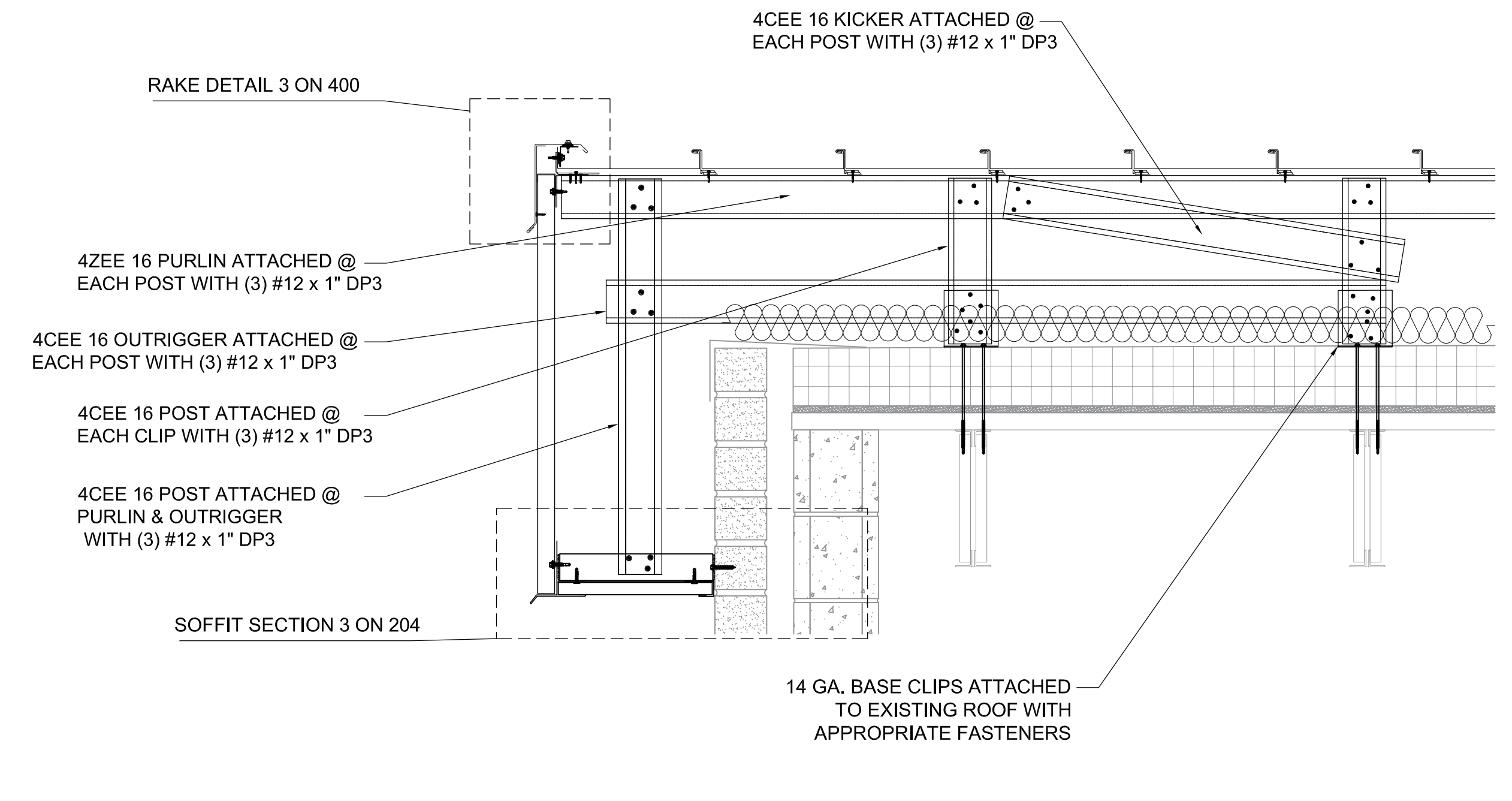
**2 ROOF FRAMING SECTION**  
1" = 1'-0"

REV	DATE	DESCRIPTION
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2	4-08-20	SHOP DRAWINGS

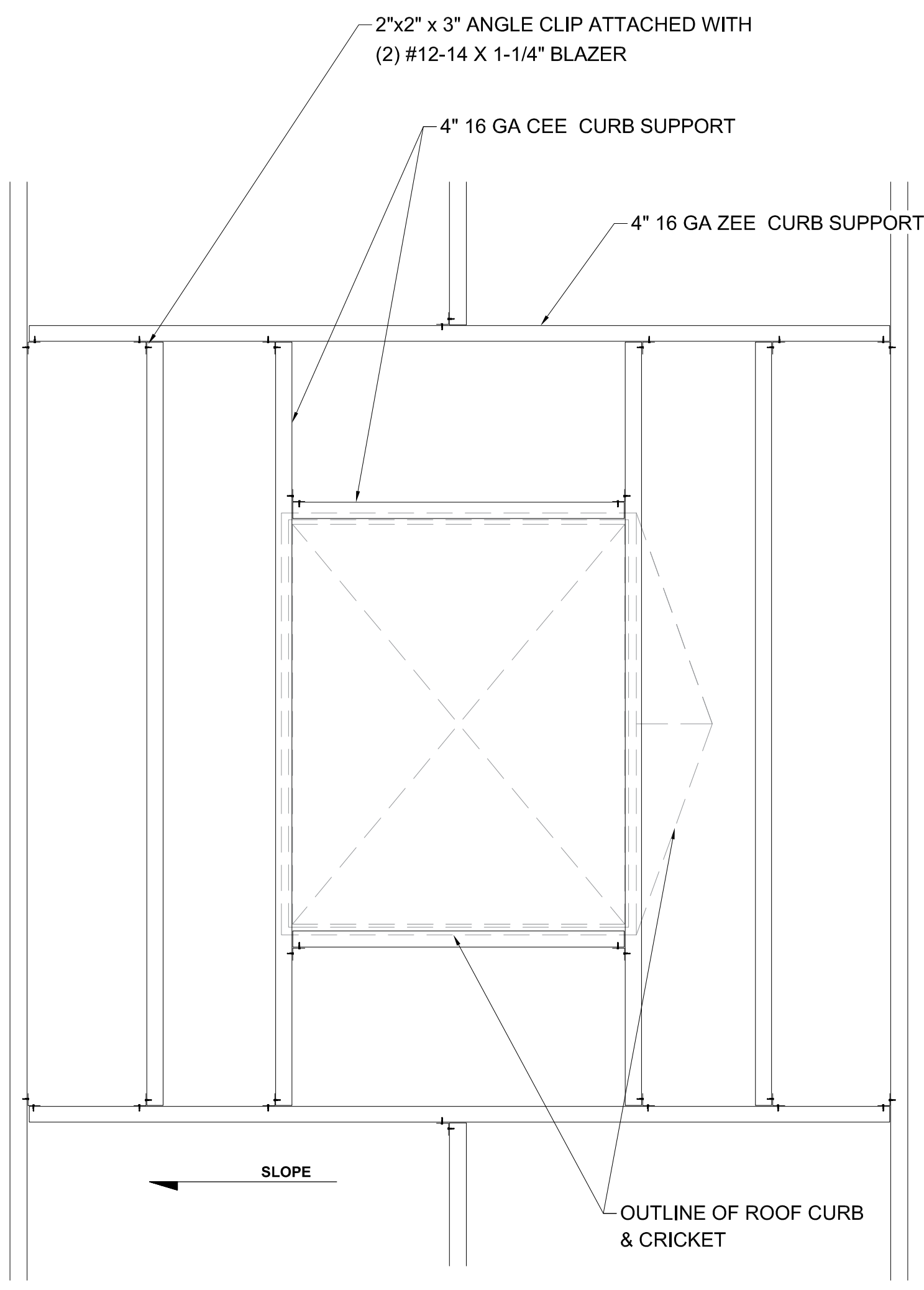
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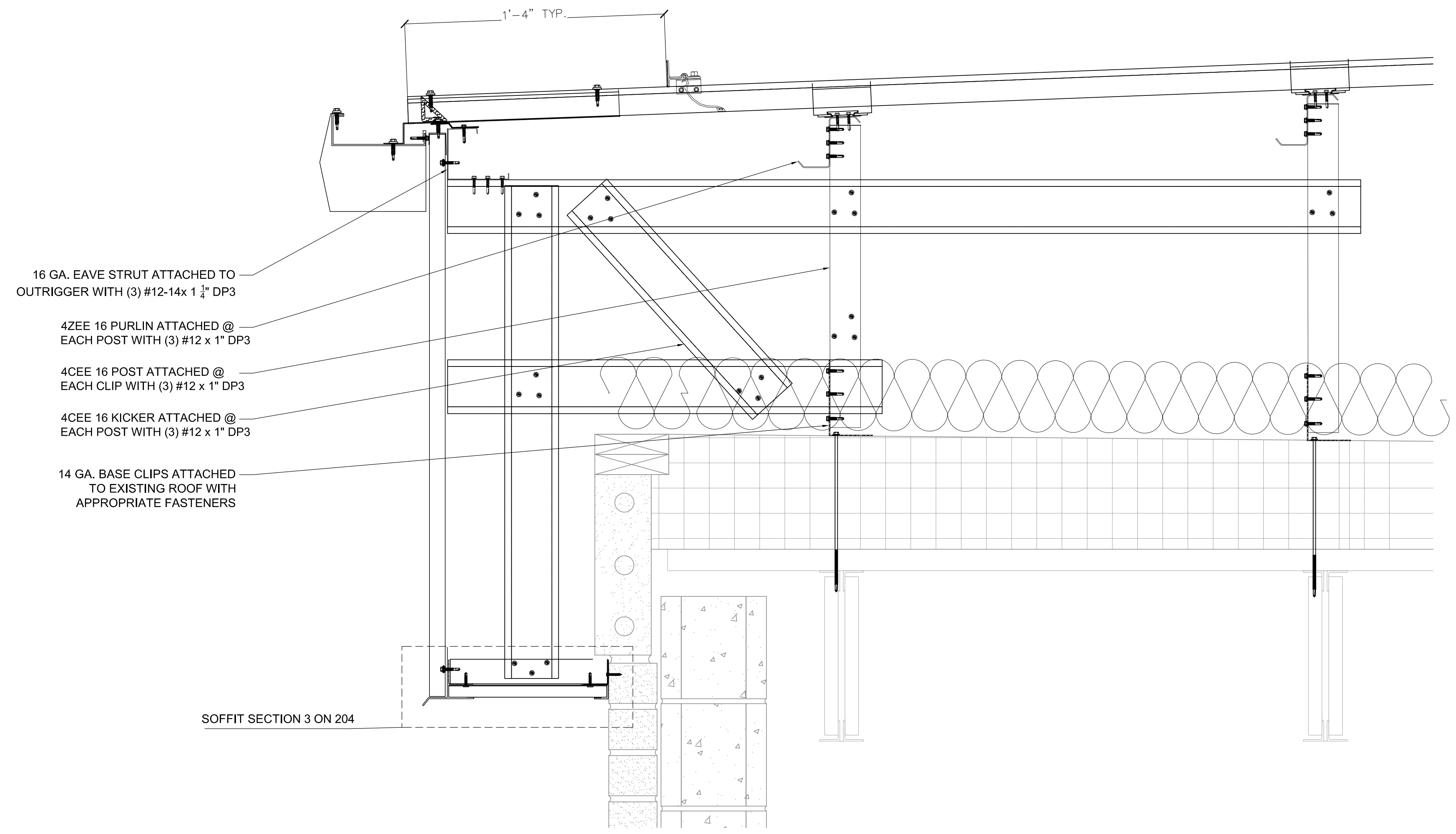
**3 SOFFIT FRAMING SECTION**  
3" = 1'-0"



**4 RAKE WALL FRAMING SECTION**  
1 1/2" = 1'-0"



**2 ROOF CURB FRAMING PLAN VIEW**  
1/2" = 1'-0"

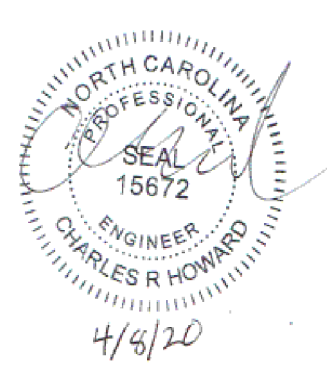


**1 EAVE FRAMING SECTION**  
3" = 1'-0"

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1 1/2" x .029 SIGNODE BANDING OVER C-POST ROWS EXTEND OVER RIDGE AND HIPS AND ATTACH TO THE FIRST PURLIN ON THE OPPOSITE SIDE ATTACH TO EACH PURLIN WITH (1) #12-14 X1 CONCEALOR

4" 16 GA. PURLIN

4" 16 GA. C-POST

4C16 GA. LATERAL SUPPORT ATTACHED TO POSTS WITH (2) #12-14x 1 1/4" TEK 3 ANYWHERE POST HEIGHT EXCEEDS 10'-0"

**4 OVER BANDING DETAIL**  
3" = 1'-0"

4" 16 GA. PURLIN

4C16 GA. LATERAL SUPPORT ATTACHED TO POSTS WITH (2) #12-14x 1 1/4" TEK 3 ANYWHERE POST HEIGHT EXCEEDS 10'-0"

4" 16 GA. C-POST ATTACHED TO BASE CLIP WITH (3) #12-14x 1 1/4" TEK 3

4" 16 GA. C-POST KICKER ATTACHED TO POSTS WITH (3) #12-14x 1 1/4" TEK 3

14 GA. BASE CLIPS ATTACHED TO EXISTING ROOF WITH APPROPRIATE FASTENERS

**1 RIDGE FRAMING**  
3" = 1'-0"

CONTINUOUS 16 GA. ANGLE ATTACHED AT EACH PURLIN WITH (3) #12-14x 1" TEK 3 CONCEALOR

CONTINUOUS SLOTTED 16 GA. RAKE ANGLE ATTACHED TO ANGLE WITH (1) #12-14 SHOULDER SCREW 12" O.C.

4" 16 GA. PURLIN

4" 16 GA. POST ATTACHED TO BASE CLIPS WITH (3) #12-14x 1 1/4" TEK 3

4" 16 GA. C-POST KICKER ATTACHED TO POSTS WITH (3) #12-14x 1 1/4" TEK 3

**2 END WALL FRAMING SECTION**  
3" = 1'-0"

4" 16 GA. PURLIN

(2) #12-14 BLAZER PER CONNECTION

4" 16 GA. C-POST

1 1/2" x .029 SIGNODE BANDING AT 20'-0" MAX. FROM HIPS AND 40'-0" MAX. IN BETWEEN TYPICAL ALL PURLIN LINES

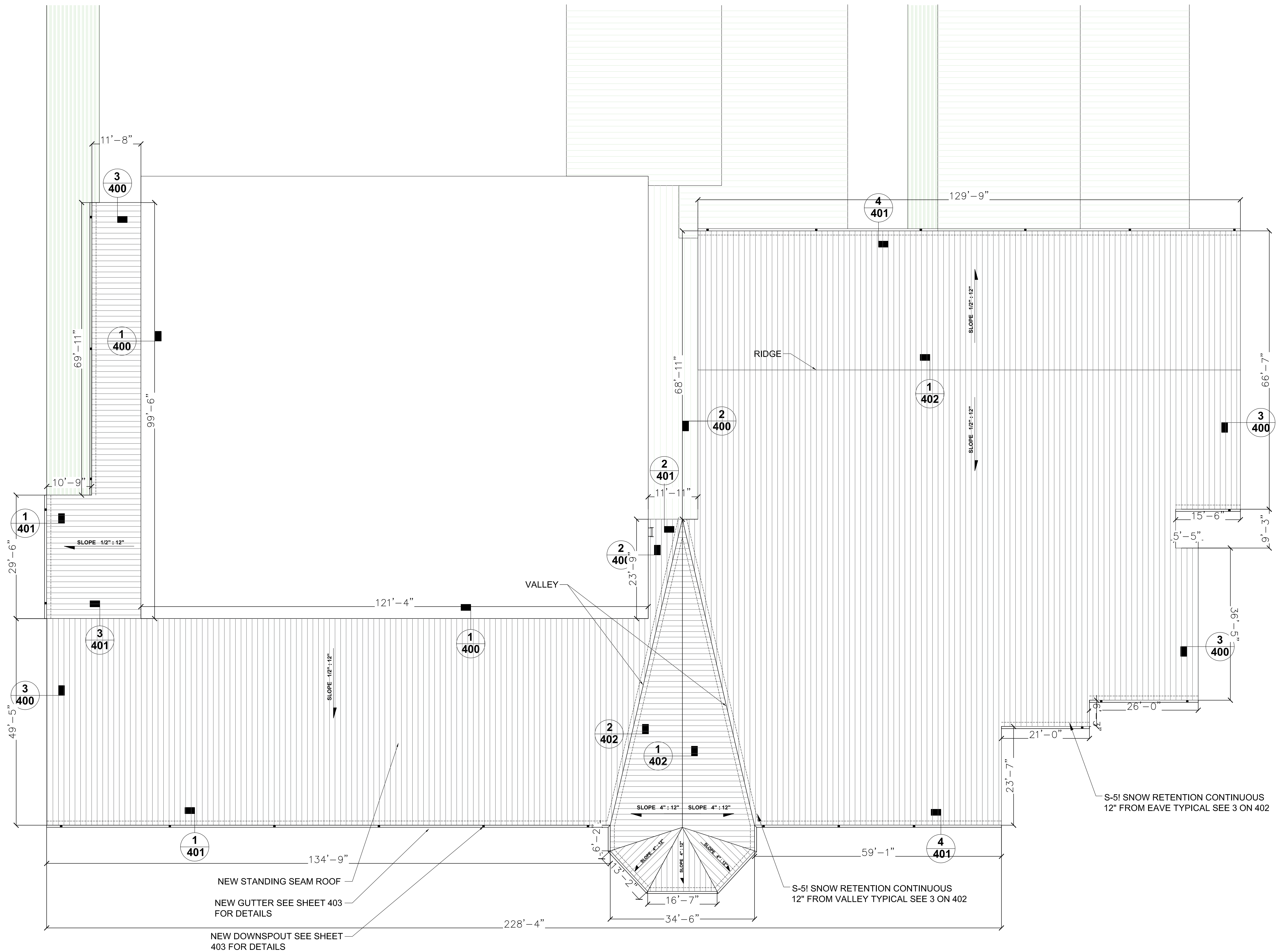
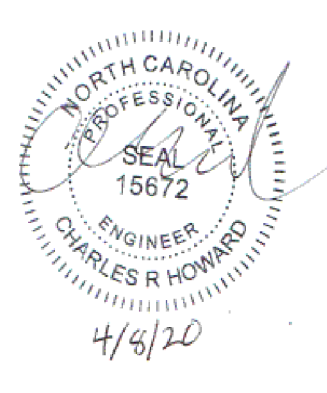
ANYWHERE PURLIN HEIGHT EXCEEDS 6'-0" USE 3"X3"X16 GA. ANGLE IN LIEU OF BANDING

**3 CROSS BRACING BANDING OR 16 GA CEE**  
3" = 1'-0"

REV	DATE	DESCRIPTION
0	4-07-19	SHOP DRAWINGS
1	2-24-20	SHOP DRAWINGS
2	4-08-20	SHOP DRAWINGS

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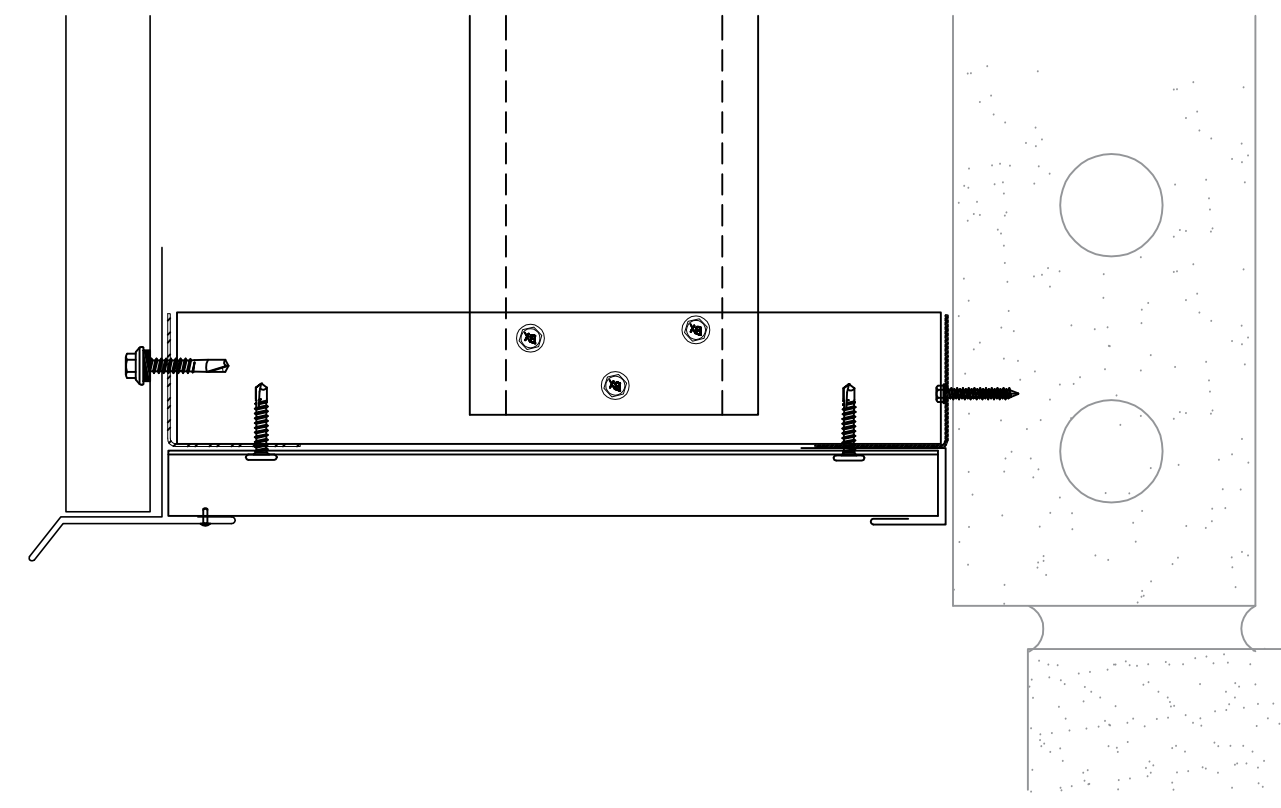
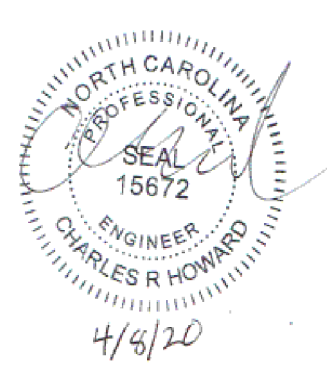
Bracing Details



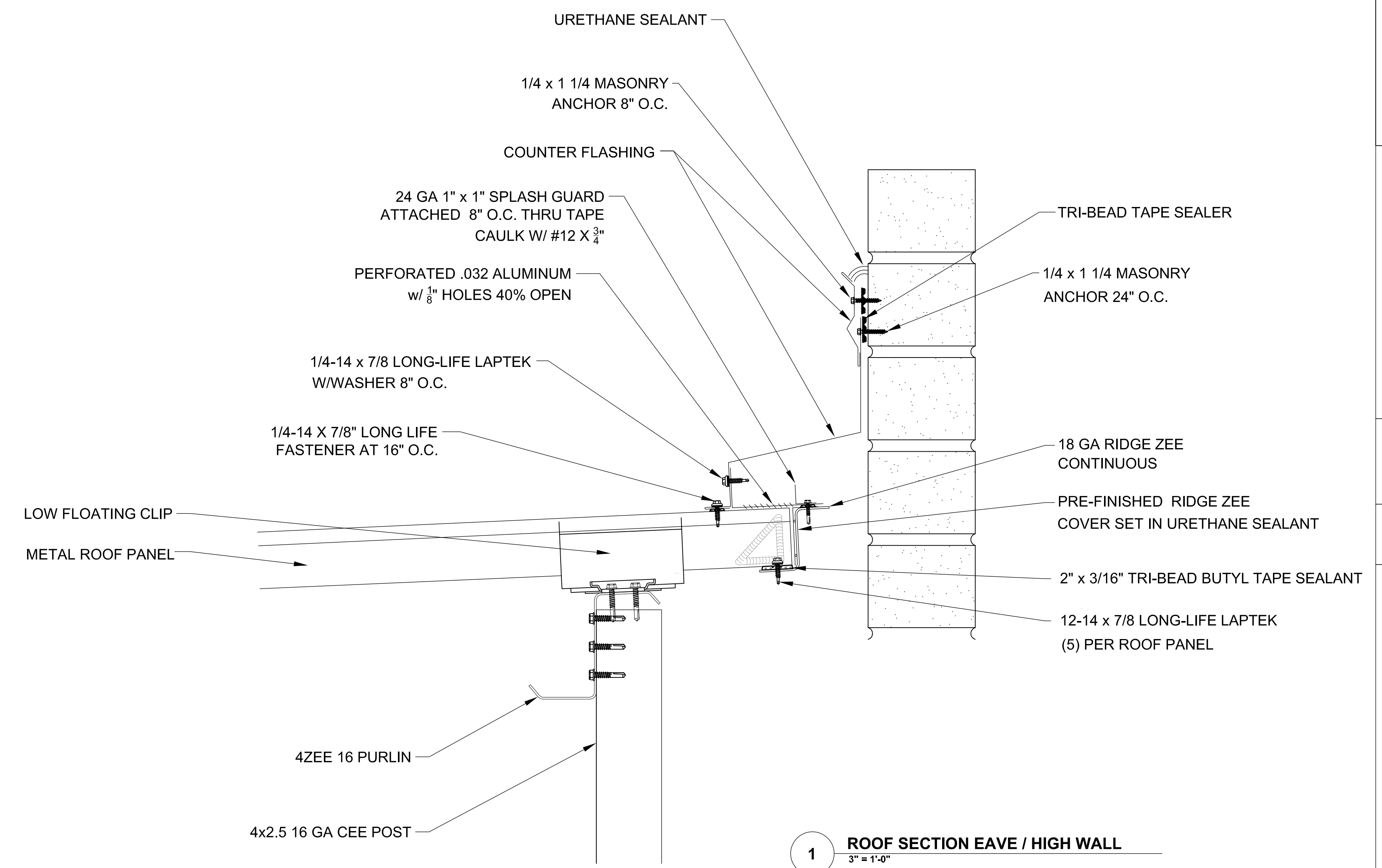
REV	DATE	DESCRIPTION
0	4-07-19	SHOP DRAWINGS
1	2-24-20	SHOP DRAWINGS
2	4-08-20	SHOP DRAWINGS

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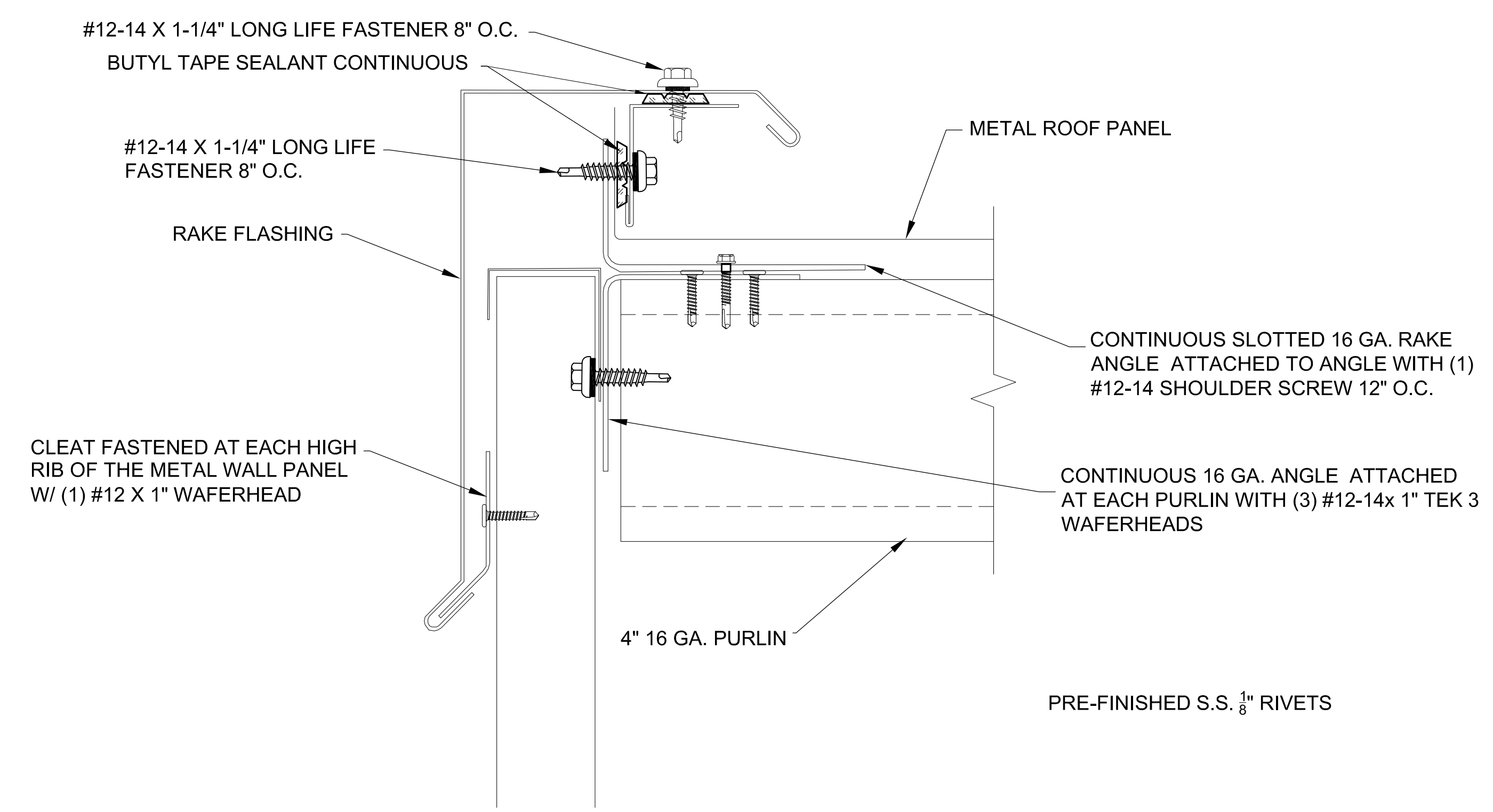
**1 NEW ROOF PLAN**  
 1/8" = 1'-0"



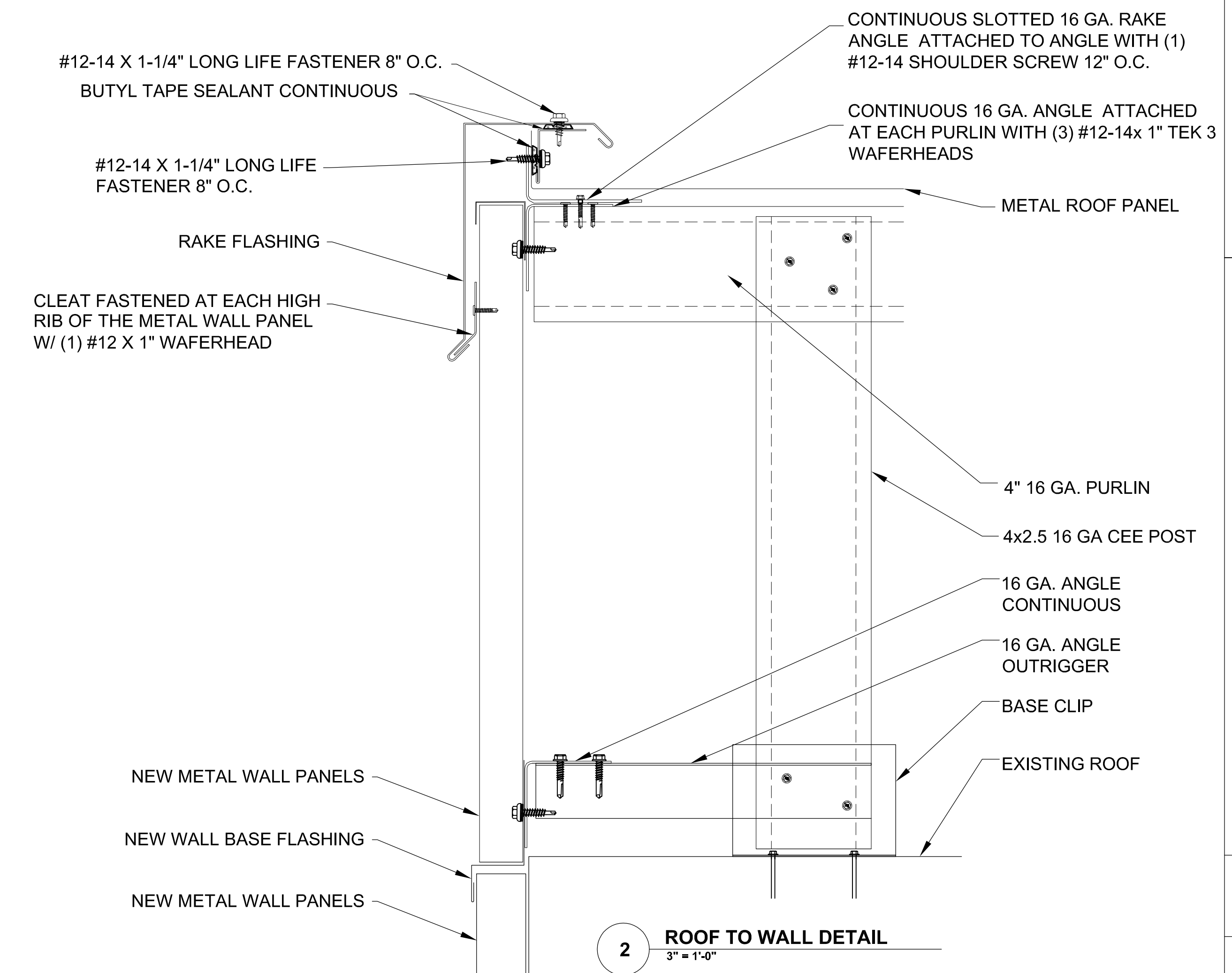
**4 SOFFIT WALL BASE SECTION**  
3" = 1'-0"



**1 ROOF SECTION EAVE / HIGH WALL**  
3" = 1'-0"



**3 RAKE FLASHING DETAIL**  
6" = 1'-0"

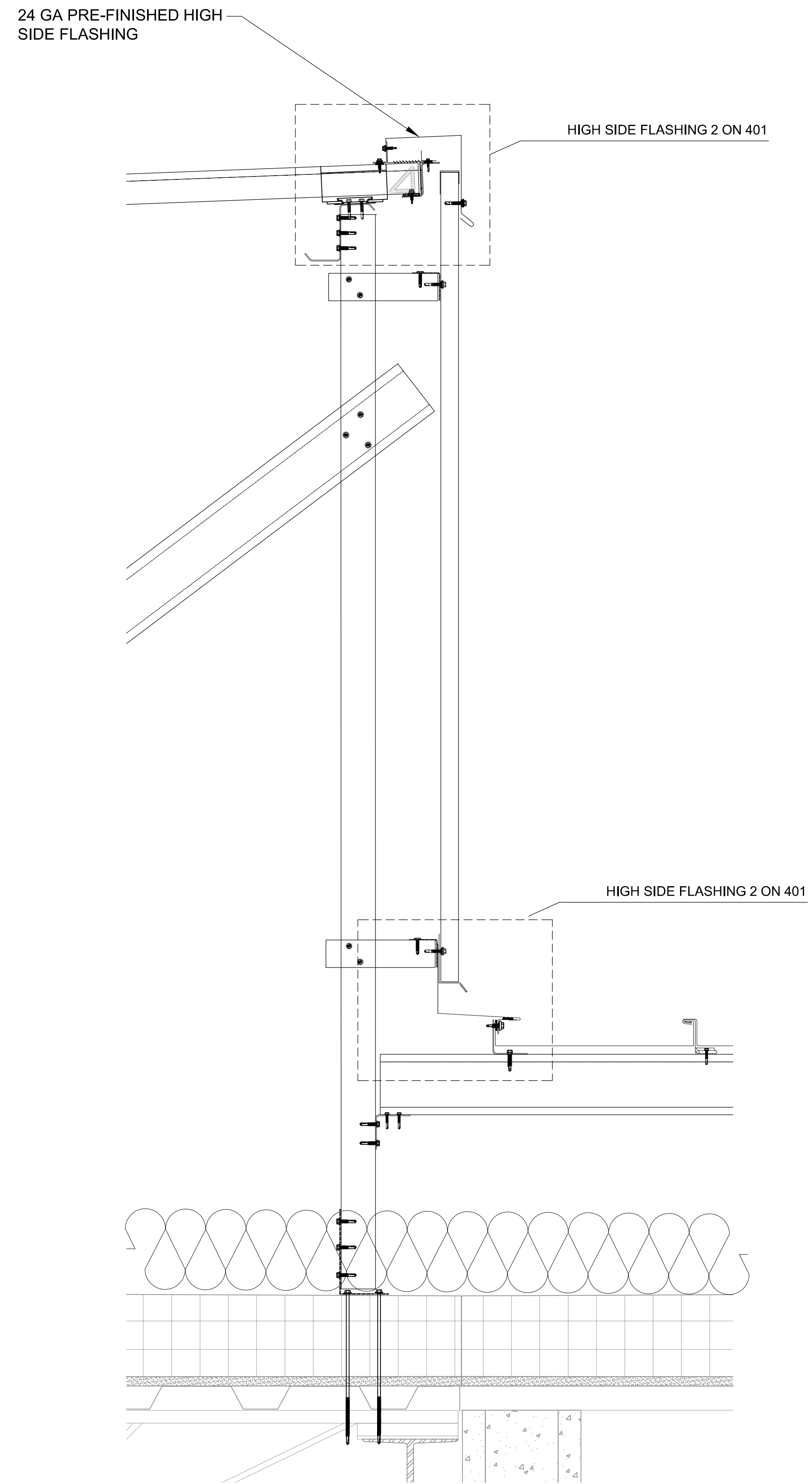


**2 ROOF TO WALL DETAIL**  
3" = 1'-0"

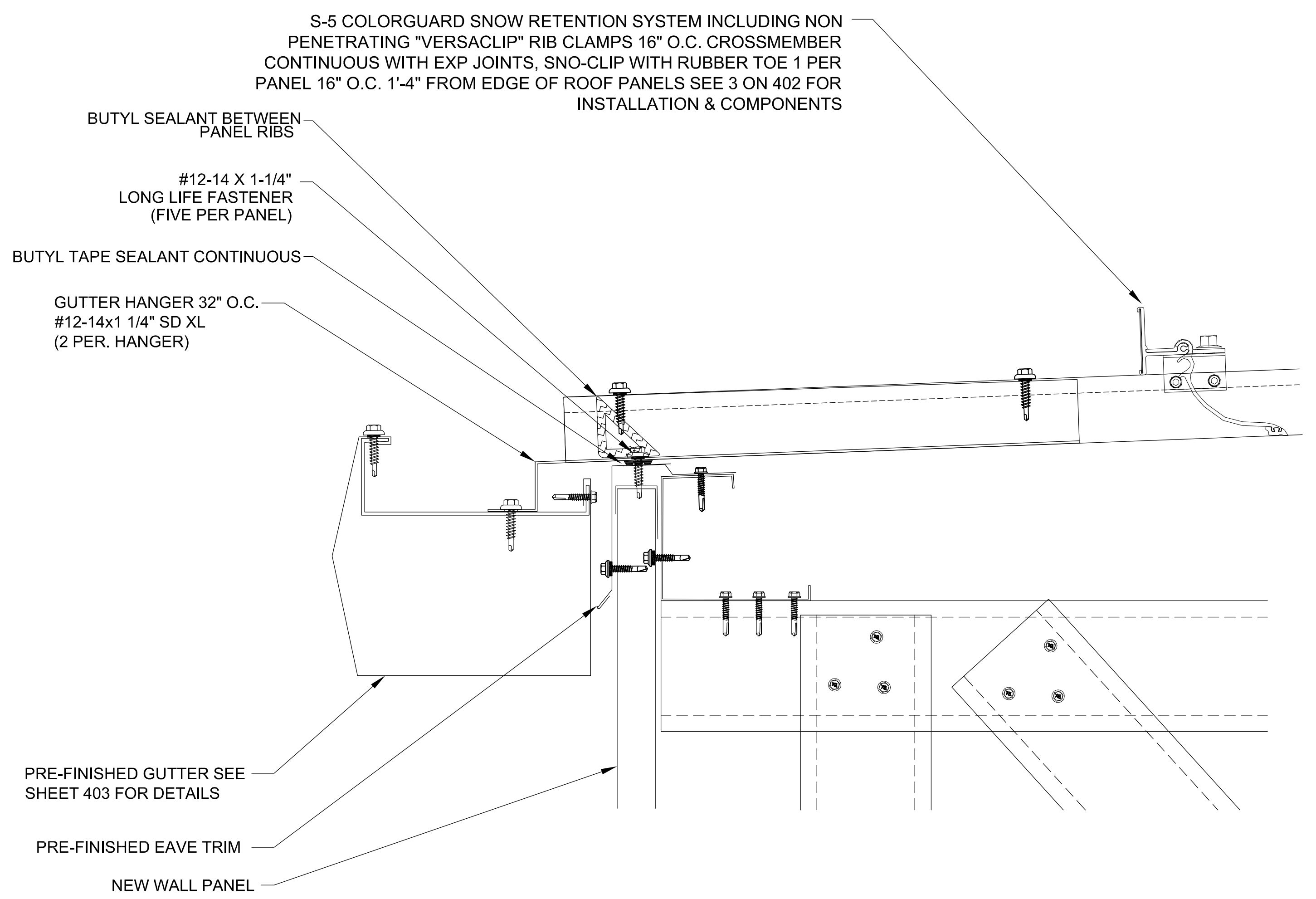
REV	DATE	DESCRIPTION
0	4-07-19	SHOP DRAWINGS
1	2-24-20	SHOP DRAWINGS
2	4-08-20	SHOP DRAWINGS

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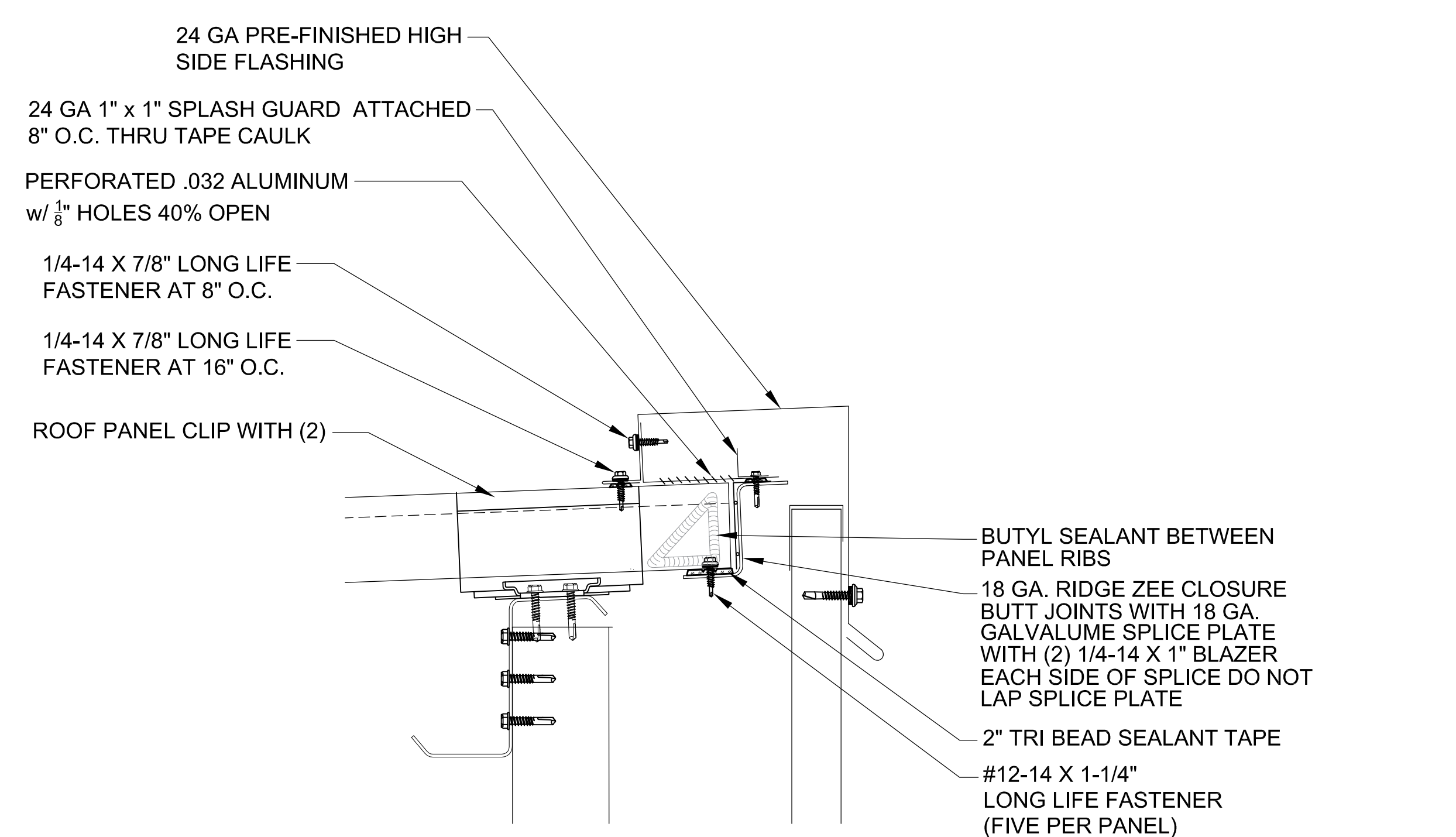
New Roof Details



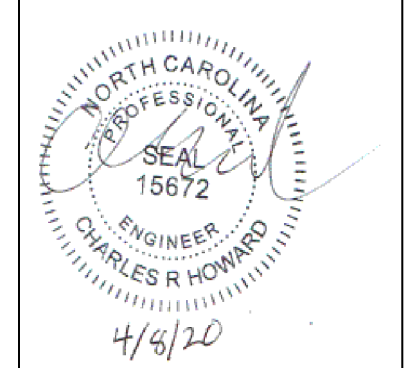
**3 WALL SECTION**  
3" = 1'-0"



**1 EAVE & GUTTER DETAIL**  
6" = 1'-0"

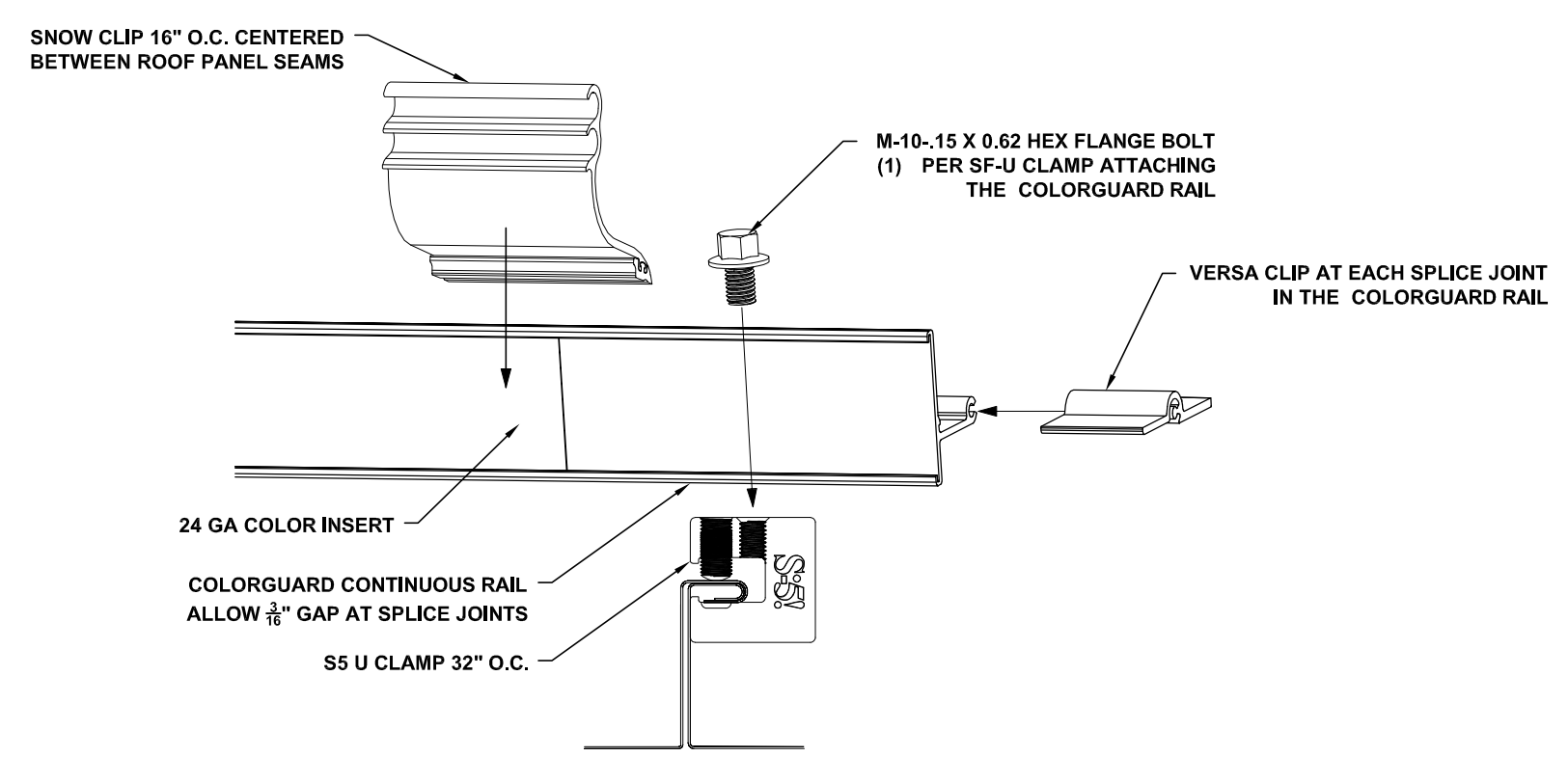
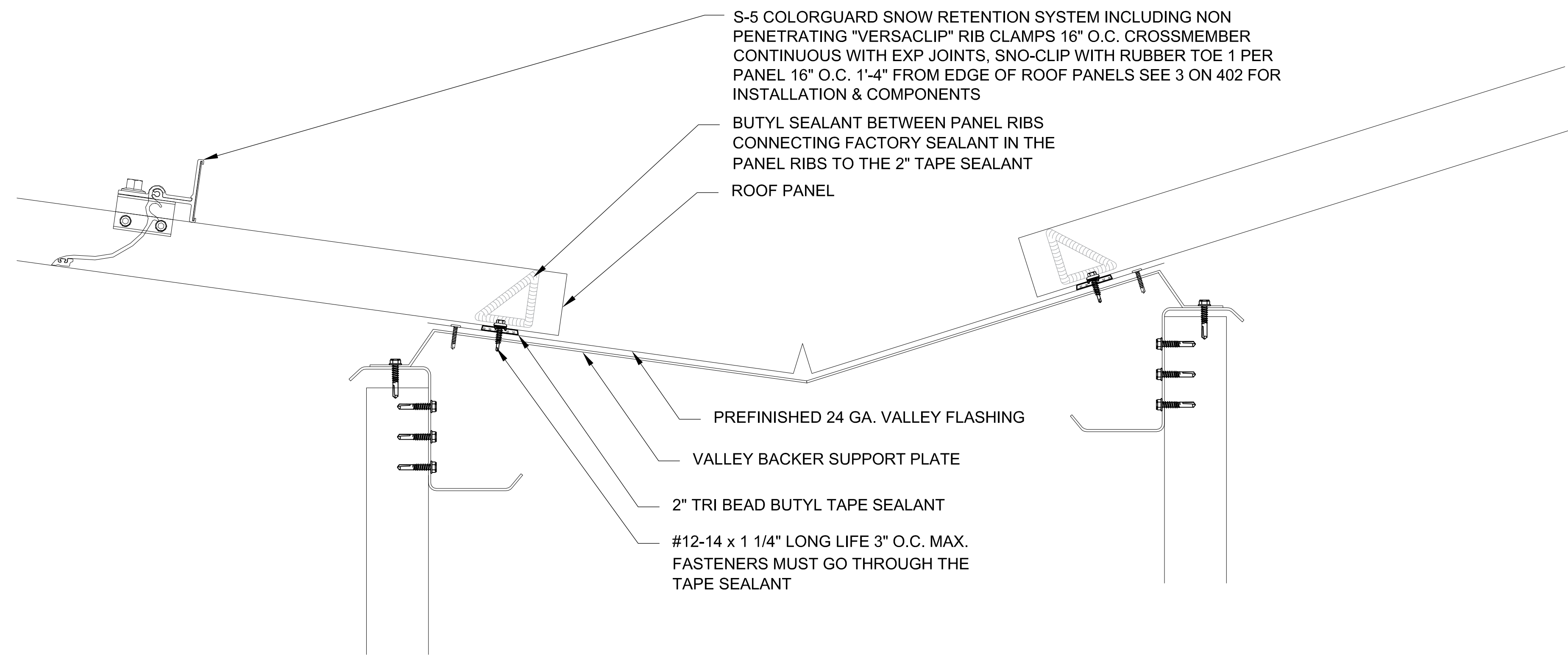
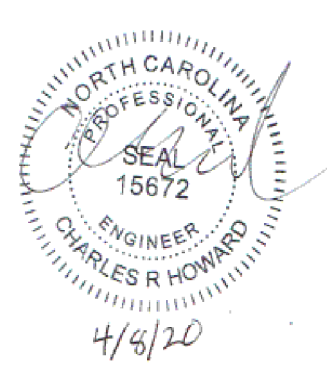


**2 HIGH EAVE FLASHING DETAIL**  
6" = 1'-0"



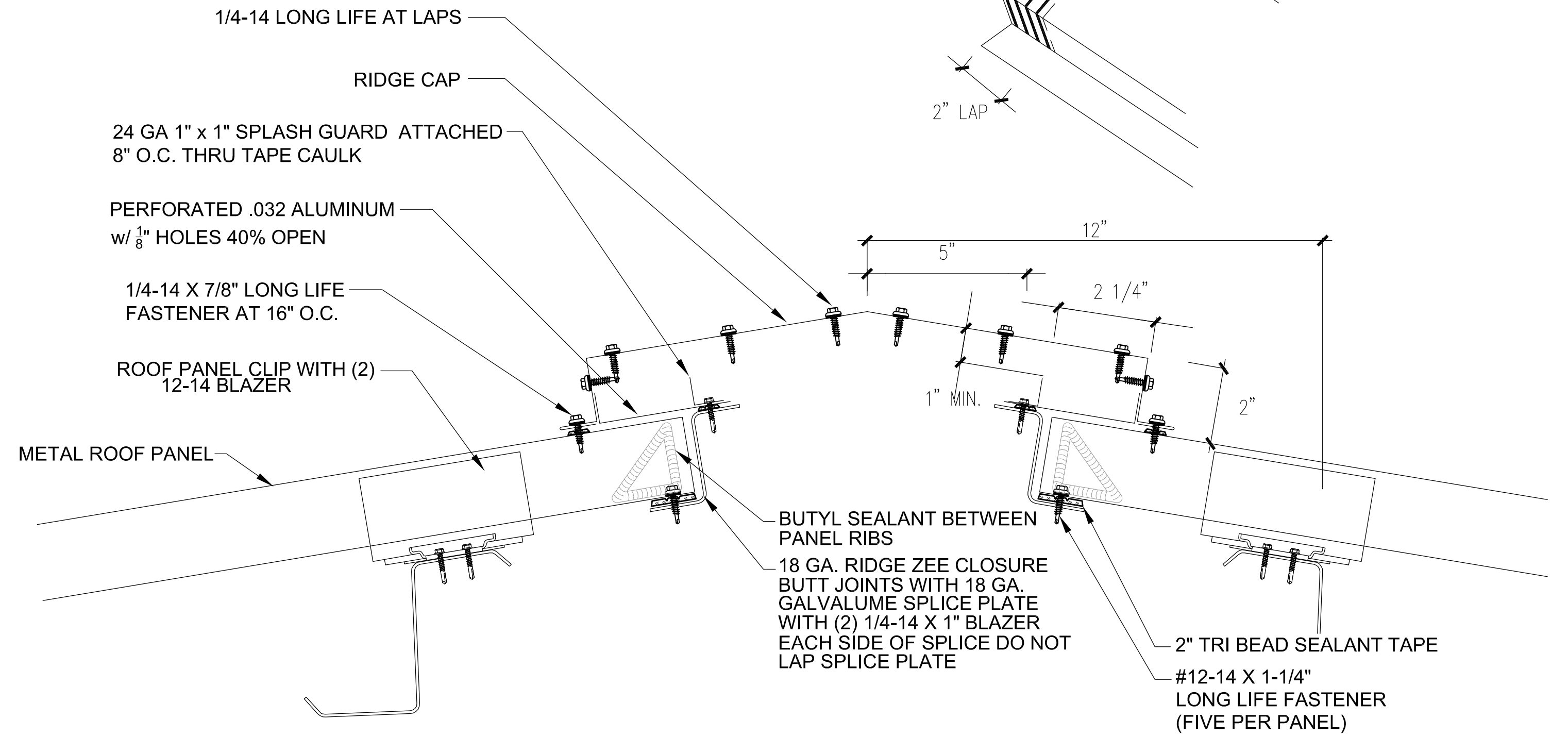
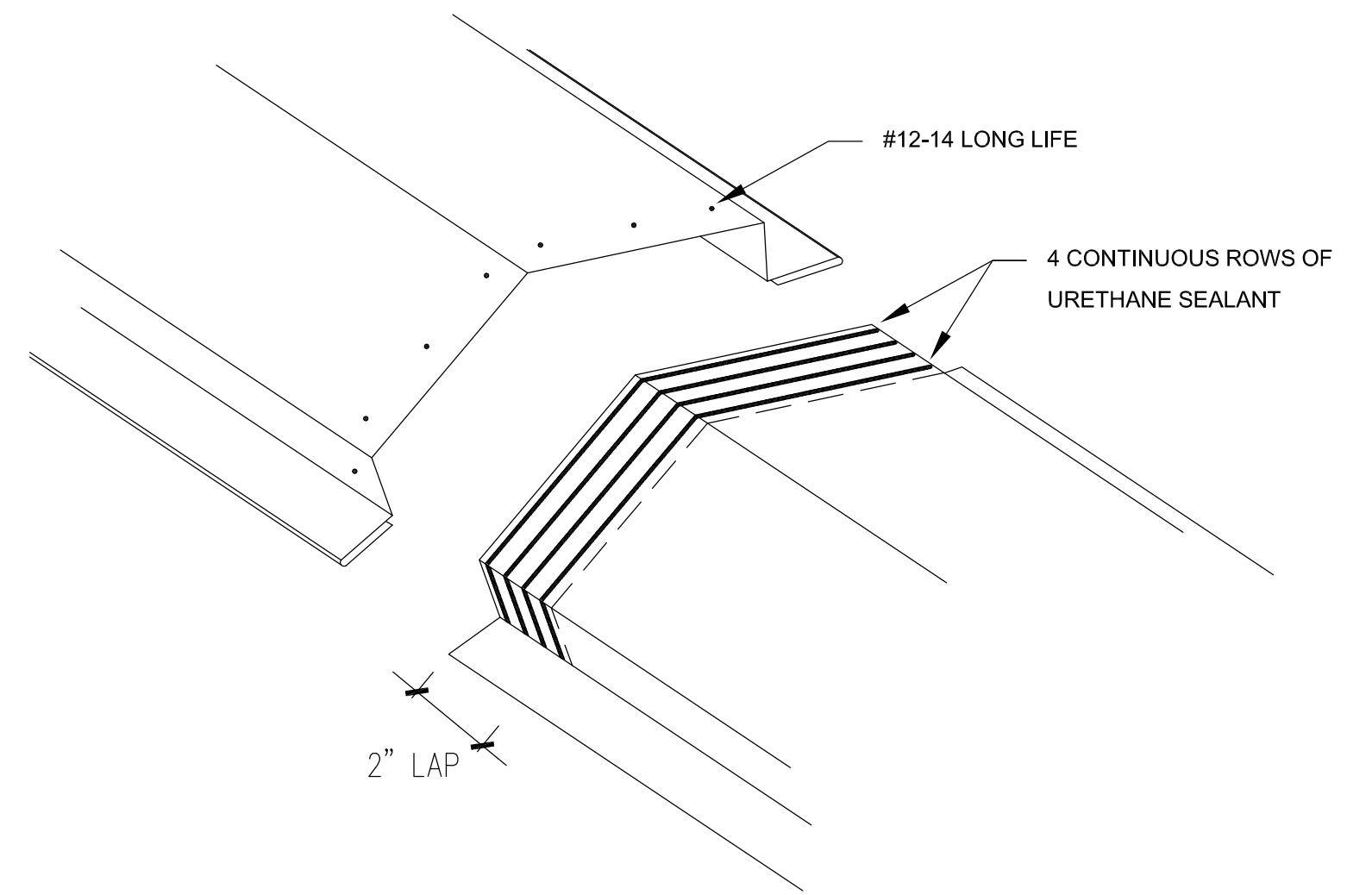
REV	DATE	DESCRIPTION
0	4-07-19	SHOP DRAWINGS
1	2-24-20	SHOP DRAWINGS
2	4-08-20	SHOP DRAWINGS

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**3 S5I COLOR GUARD SNOW RETENTION ASSEMBLY**  
N.T.S.

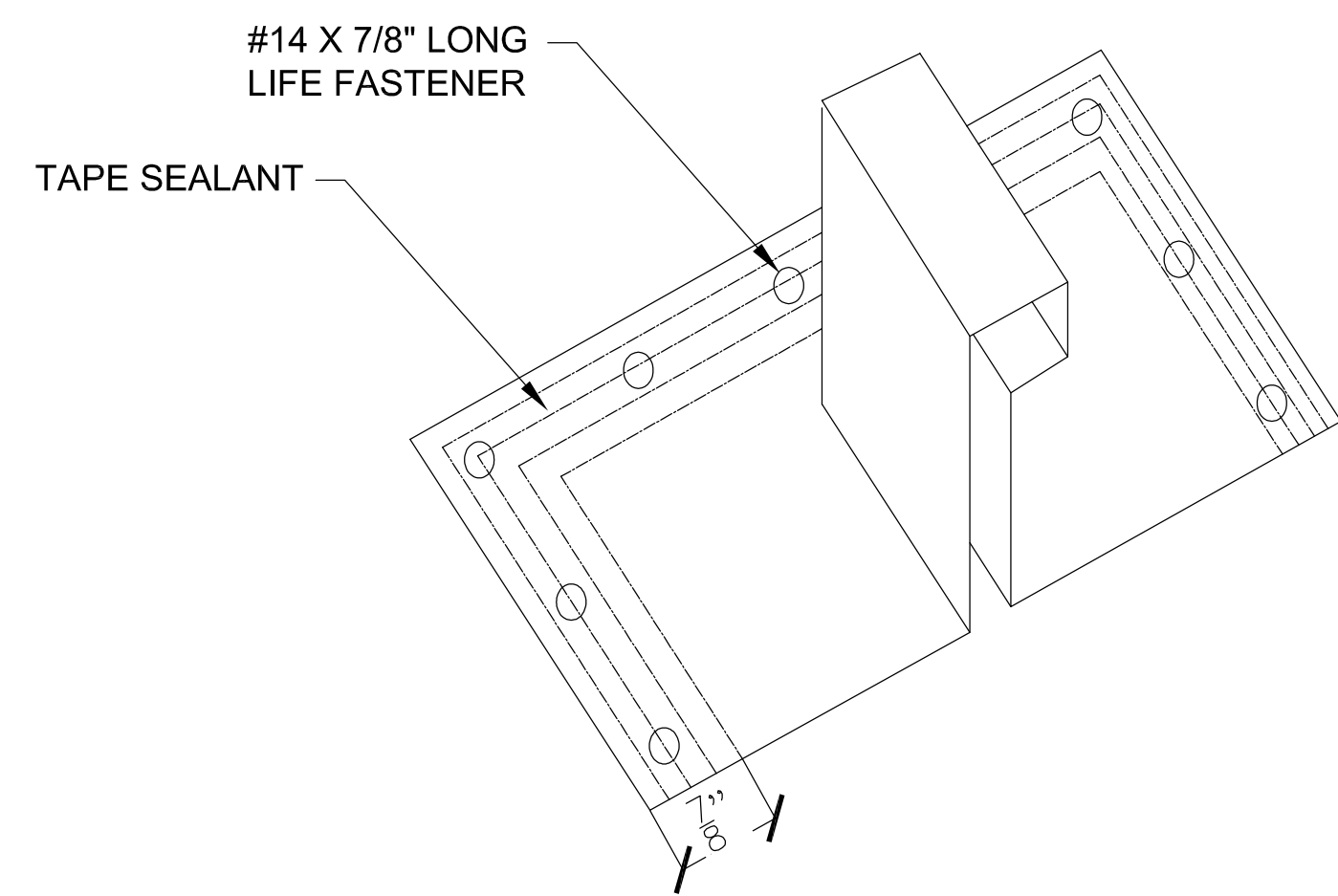
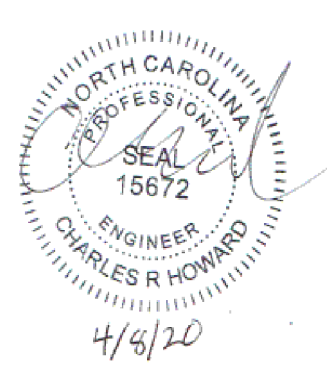
**2 VALLEY DETAIL**  
6" = 1'-0"



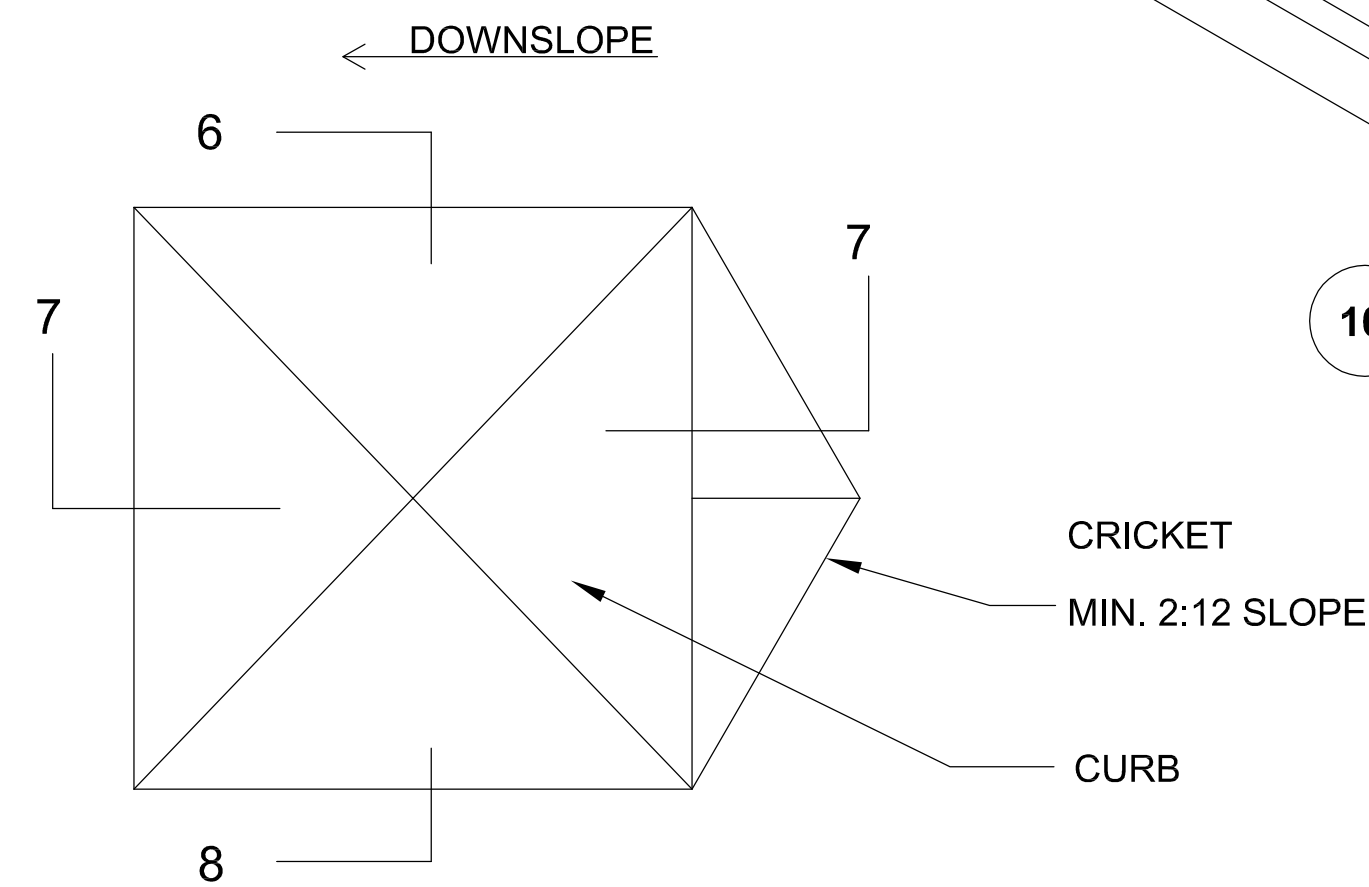
**1 VENTED RIDGE**  
6" = 1'-0"

REV	DATE	DESCRIPTION
0	4-07-19	SHOP DRAWINGS
1	2-24-20	SHOP DRAWINGS
2	4-08-20	SHOP DRAWINGS

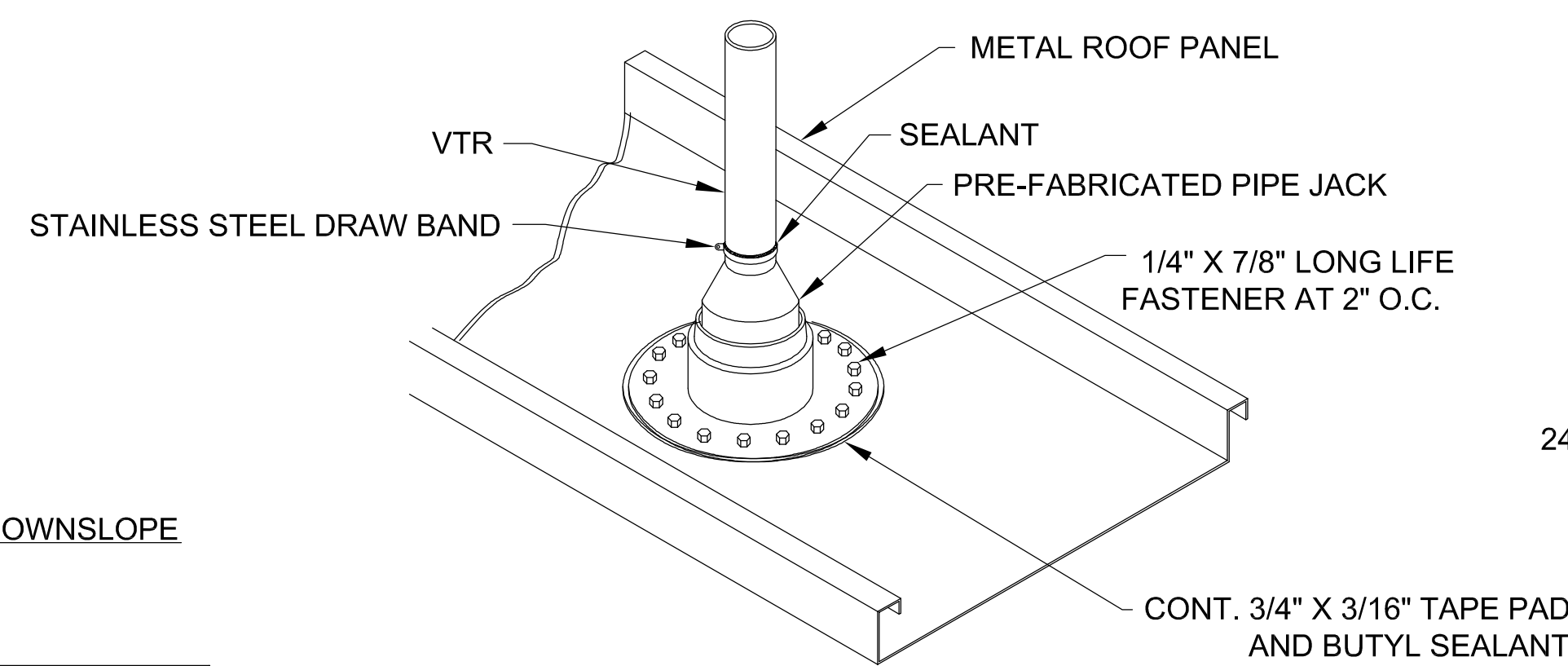
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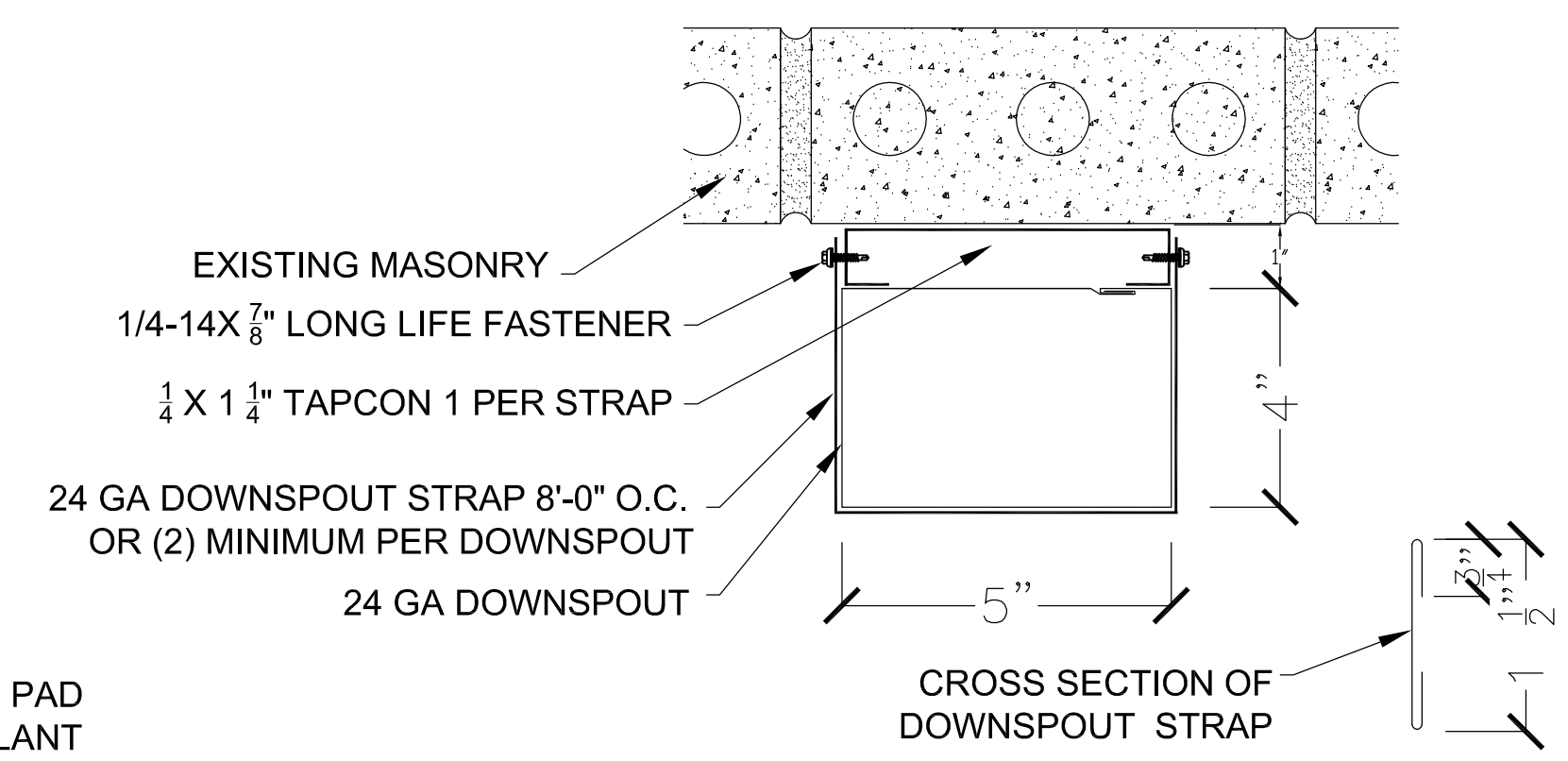
9 ROOF CURB CELL CAP



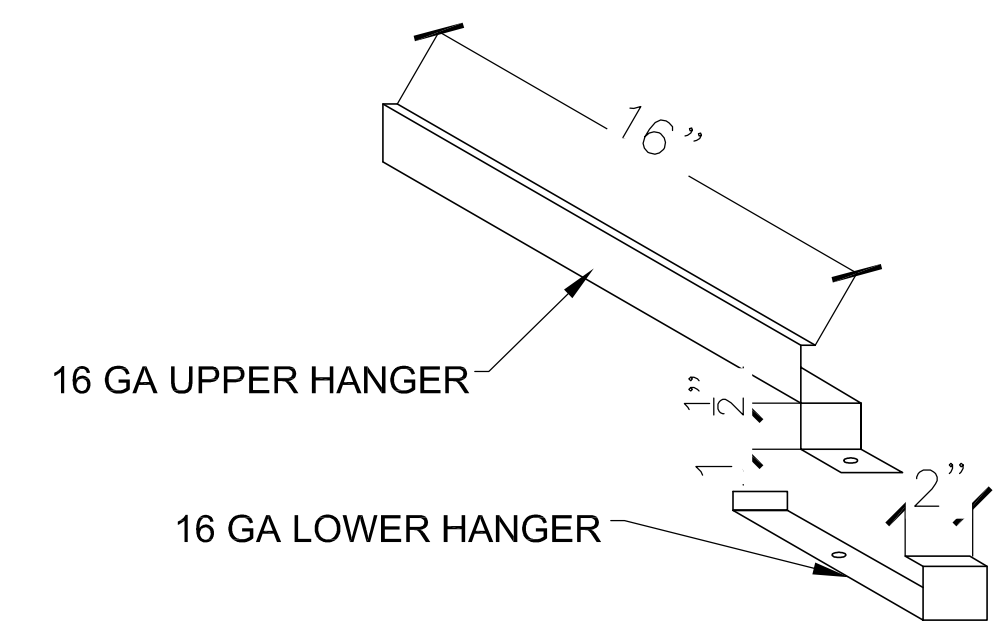
5 ROOF CURB PLAN VIEW



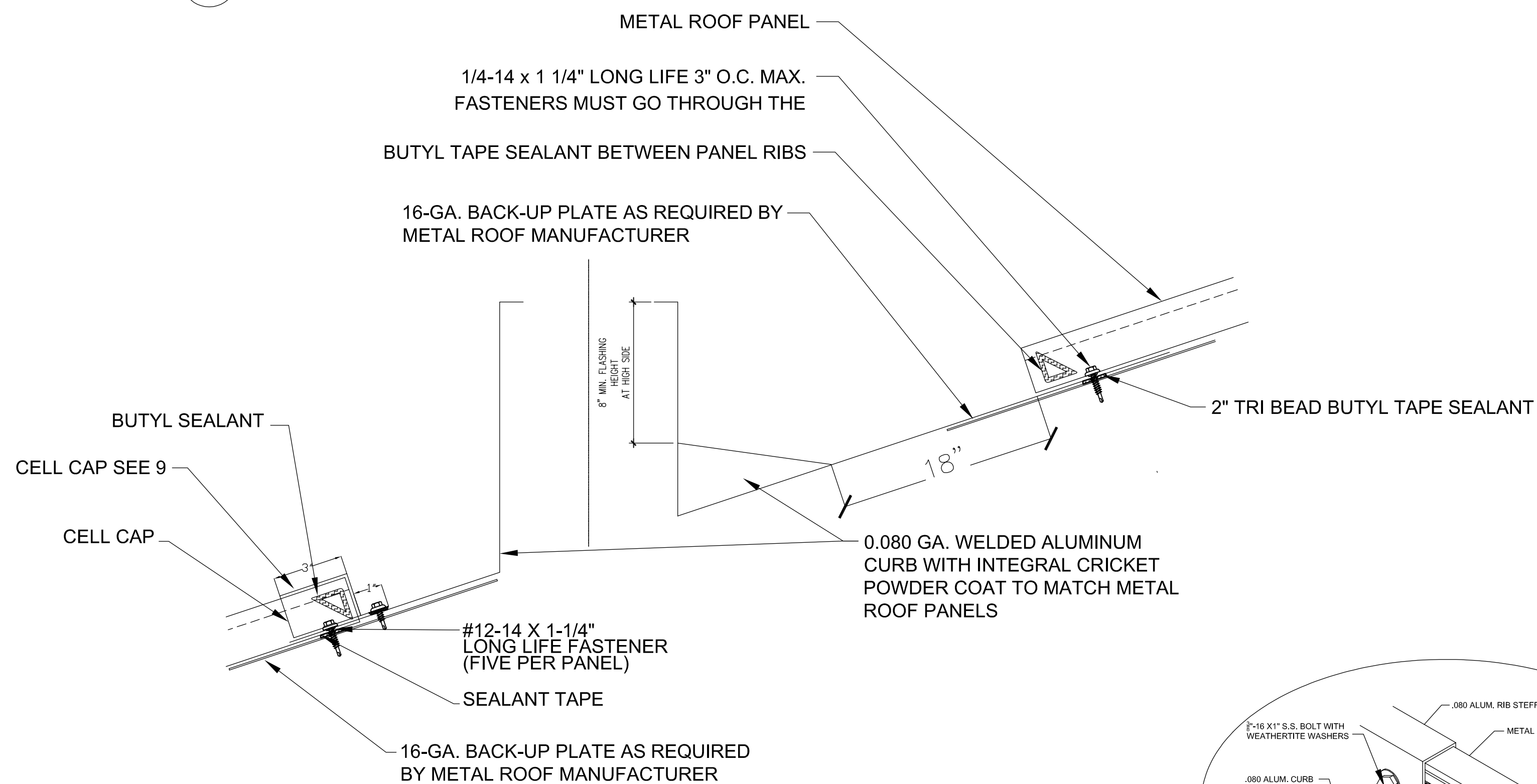
10 VTR ROOF PENETRATION DETAIL



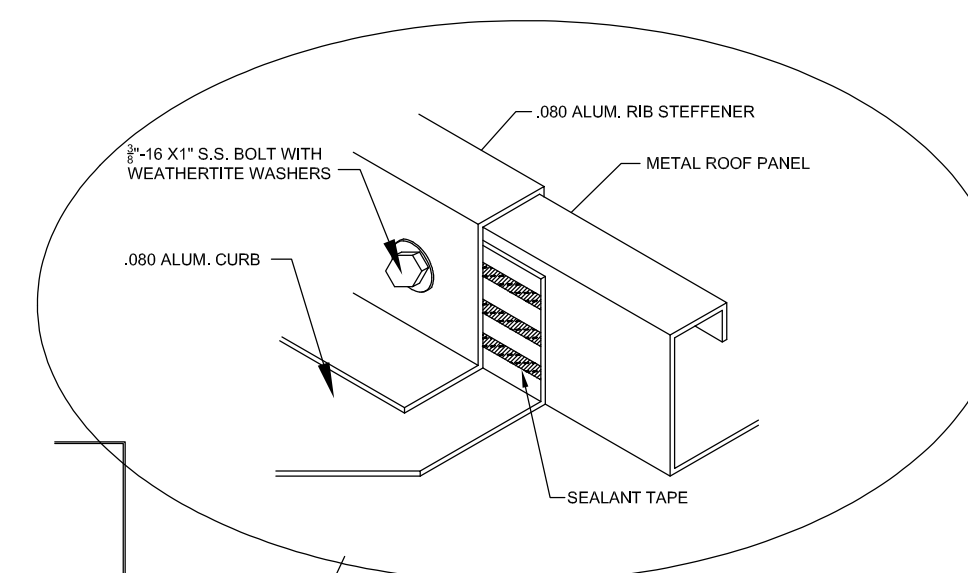
1 DOWNSPOUT & STRAP SECTION



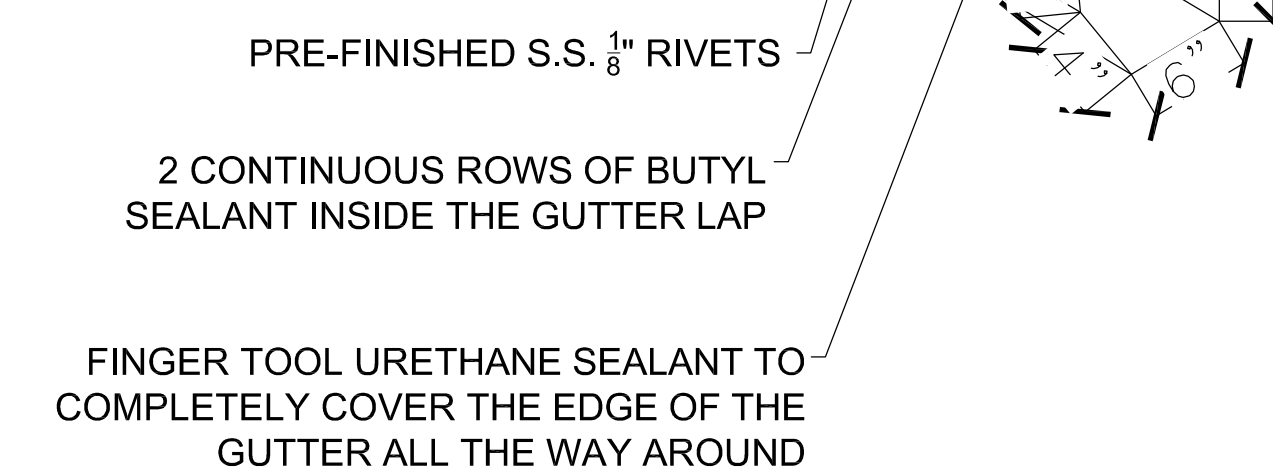
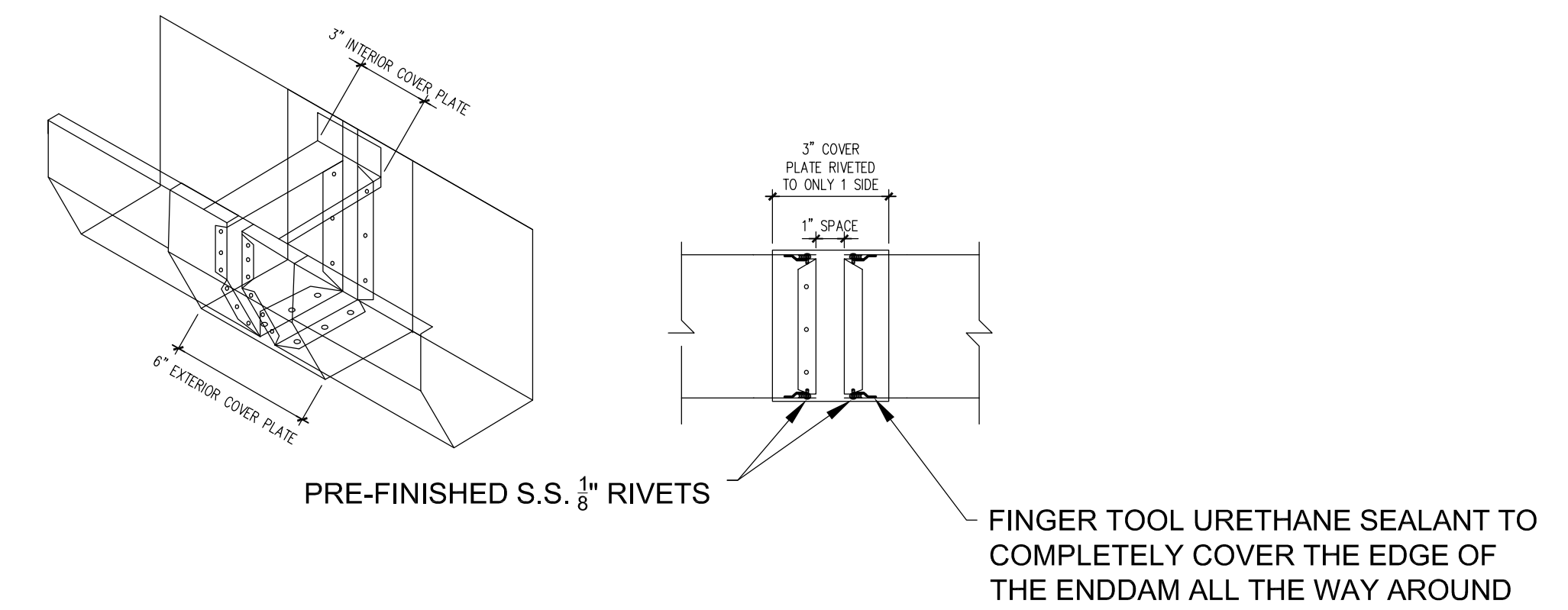
2 GUTTER HANGER DETAIL



7 ROOF CURB SECTION



6 ROOF CURB SECTION



2 GUTTER LAP DETAIL

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0	4-07-19	SHOP DRAWINGS
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2	4-08-20	SHOP DRAWINGS

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