

BRUNSWICK COUNTY BOARD OF EDUCATION

BELVILLE ELEMENTARY SCHOOL ROOF REPLACEMENT

575 RIVER RD. SE
LELAND, NORTH CAROLINA 28451

REI PROJECT NO. 022CLT-253

DATE: 10/04/24



ENGINEERS

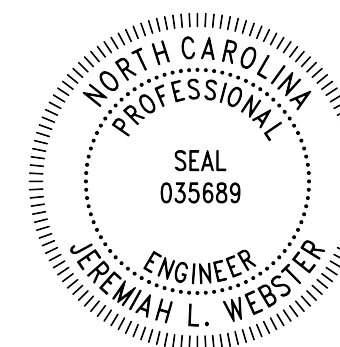
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SEALS:



PROJECT NAME:

BRUNSWICK COUNTY
BOARD OF EDUCATION

BELVILLE
ELEMENTARY SCHOOL
ROOF REPLACEMENT

575 RIVER RD. SE
LELAND, NORTH CAROLINA 28451

PROJ. NO:

022CLT-253

ISSUE:

NO.	DATE	DESCRIPTION
CD	10/04/2024	CONTRACT DOCUMENTS

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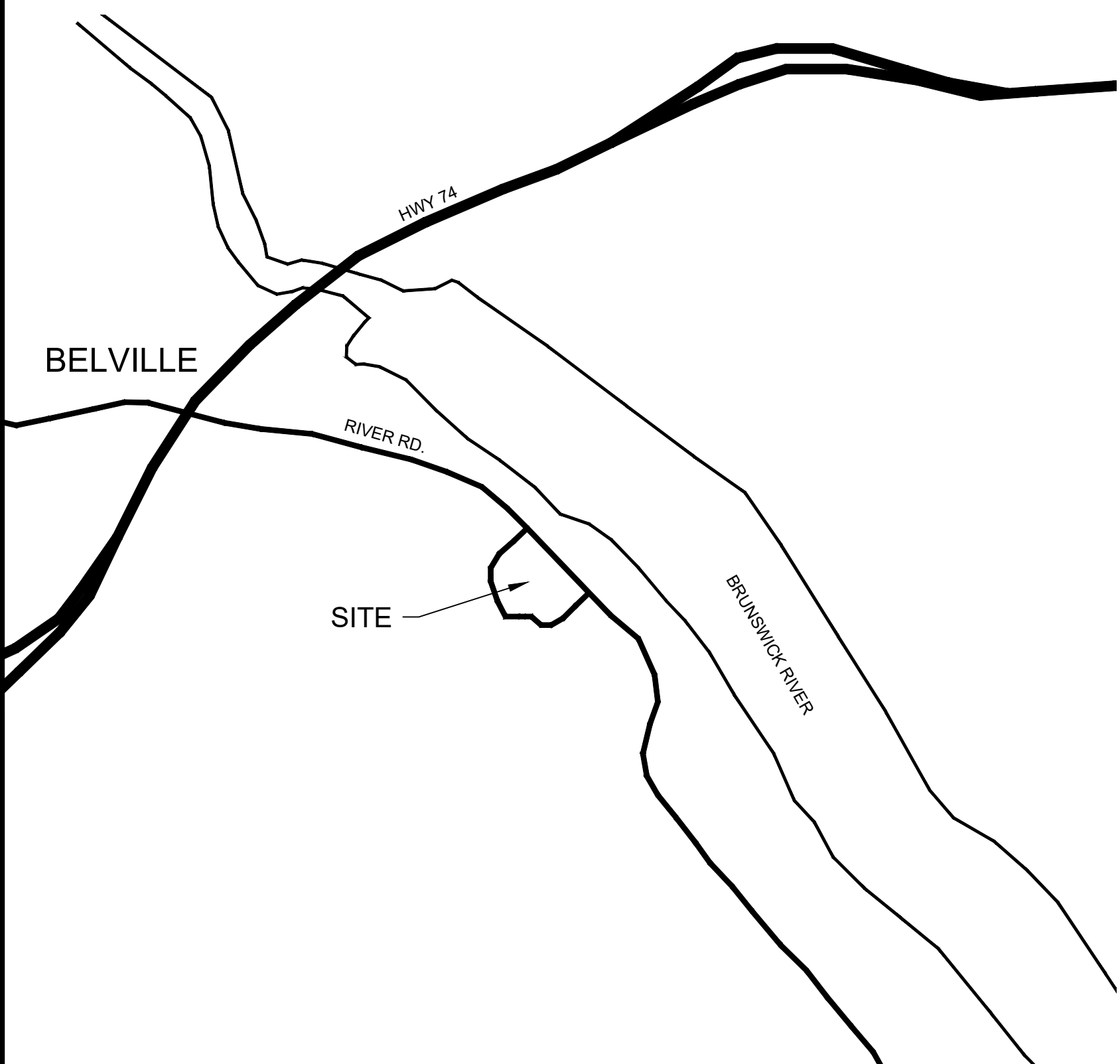
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SHEET TITLE:

COVER

DRAWING:

G-001



A VICINITY MAP
SCALE: N.T.S.



B SITE PLAN
SCALE: N.T.S.

KEY
— ROOF EDGE
⊞ ROOF AREA INDICATOR
▨ INCLUDED IN CONTRACT
▤ NOT IN CONTRACT
▩ STAGING AND MATERIAL STORAGE



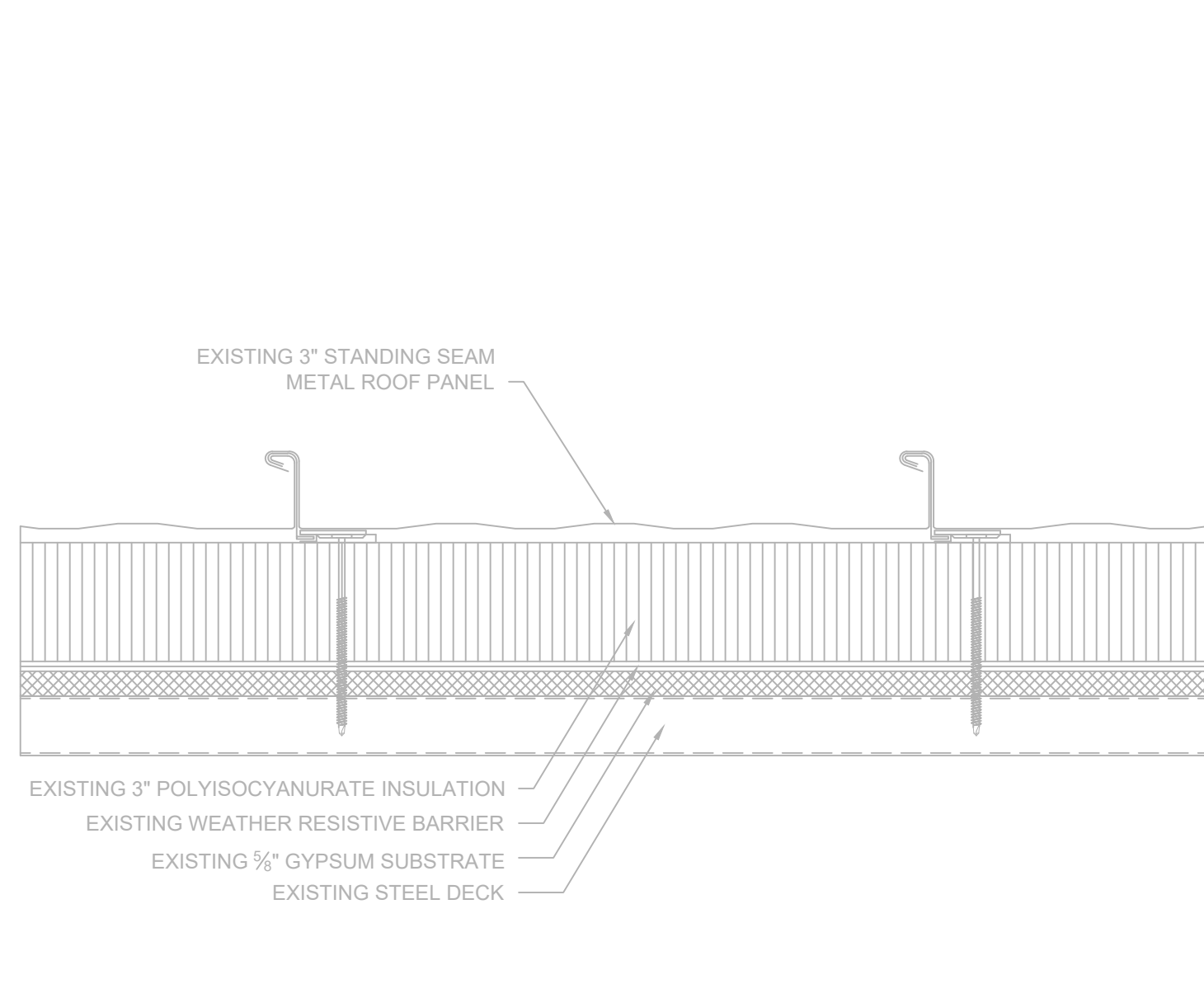
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3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
DETAIL NOTES
1. LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.

ABBREVIATION LIST:			
AB	ABANDONED	MIN.	MINIMUM
ALUM.	ALUMINUM	N.I.C.	NOT IN CONTRACT
BLDG.	BUILDING	NOM.	NOMINAL
CJ	CONTROL JOINT	N.T.S.	NOT TO SCALE
DS	DOWNSPOUT	O.C.	ON CENTER
EJ	EXPANSION JOINT	OF	OVERFLOW
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	PS	PRESSURE SENSITIVE
EX.	EXISTING	PVC	POLYVINYL CHLORIDE
GALV.	GALVANIZE	SF	SQUARE FEET
GA.	GAUGE	S.S.	STAINLESS STEEL
HT	HEIGHT	SIM.	SIMILAR
MAX.	MAXIMUM	TERM.	TERMINATE/TERMINATION
		TYP.	TYPICAL

DRAWING INDEX:
G-001 COVER
XR101 ROOF PLAN
XR301 ROOF SYSTEMS
XR501 DETAILS
XR502 DETAILS
XR503 DETAILS
XR504 DETAILS

BUILDING CODE REFERENCE:
2018 NBC: BUILDING
2018 NBC: ENERGY CONSERVATION
2018 NBC: EXISTING BUILDING
2018 NBC: FIRE PREVENTION
2018 NBC: FUEL GAS
2018 NBC: MECHANICAL
2018 NBC: PLUMBING

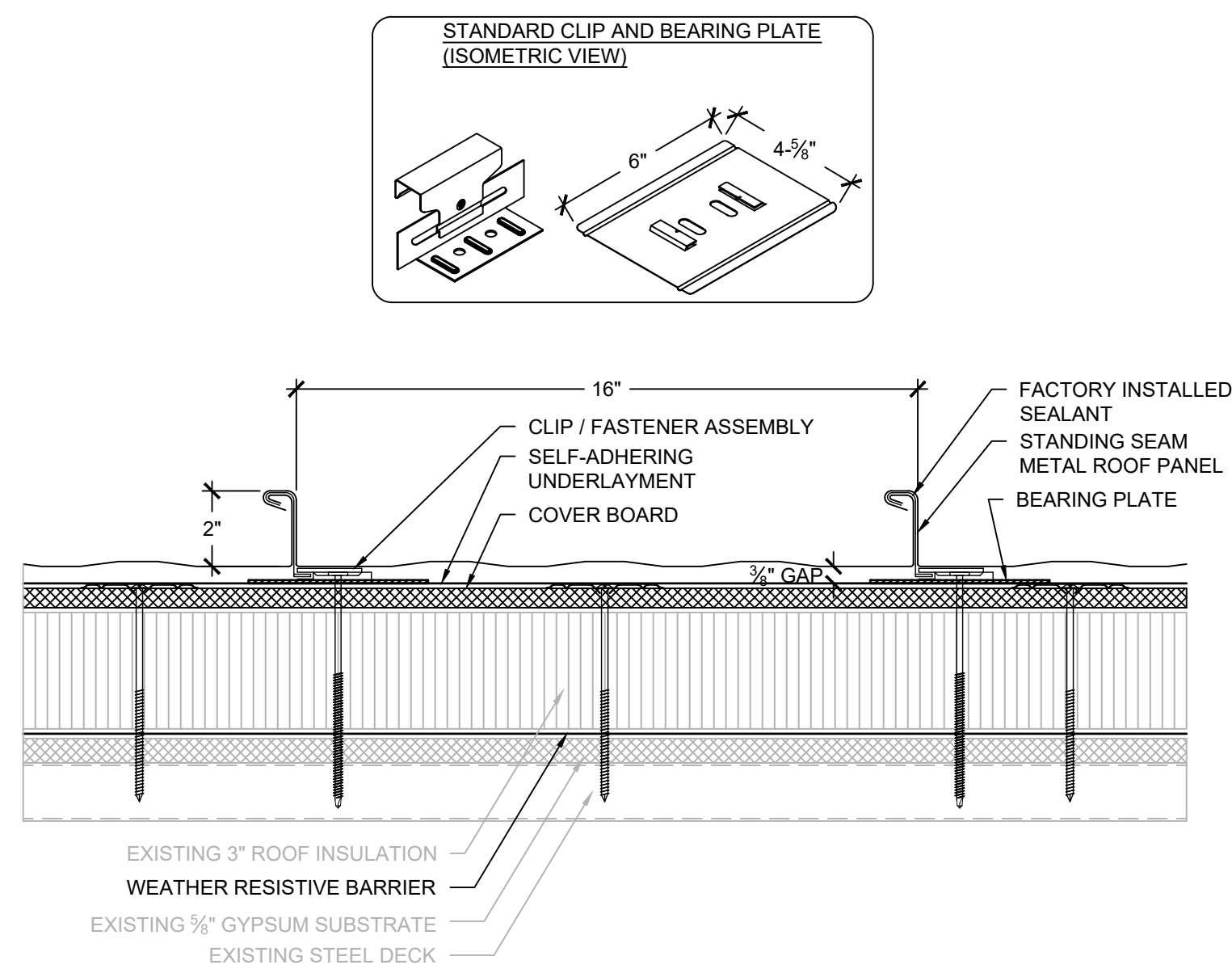
C GENERAL NOTES & INFORMATION
SCALE: N.T.S.



- NOTES:
- EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING.
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING STEEL DECK TO REMAIN.

A1 EXISTING ROOF SYSTEM - AREAS A & E

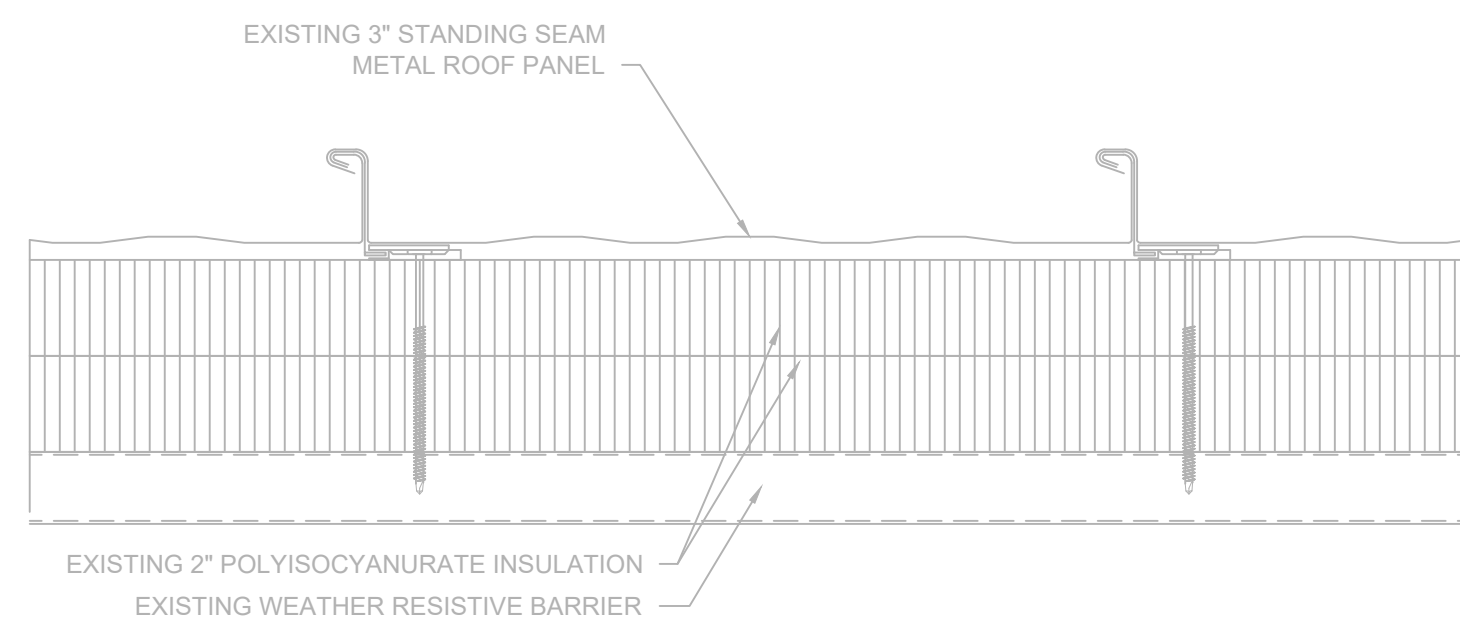
SCALE: 3" = 1'-0"



- NOTES:
- STANDING SEAM METAL ROOF PANEL ASSEMBLY SHALL BE A TESTED ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE WIND UPLIFT PRESSURES SPECIFIED IN SECTION 07 41 13 OF THE CONTRACT DOCUMENTS. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ENGINEERED CALCULATIONS FOR ATTACHMENT OF THE STANDING SEAM METAL ROOF PANEL ASSEMBLY.
 - THERMAL BLOCKS NOT SHOWN FOR CLARIFY. PROVIDE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

A2 ROOF SYSTEM - AREAS A & E

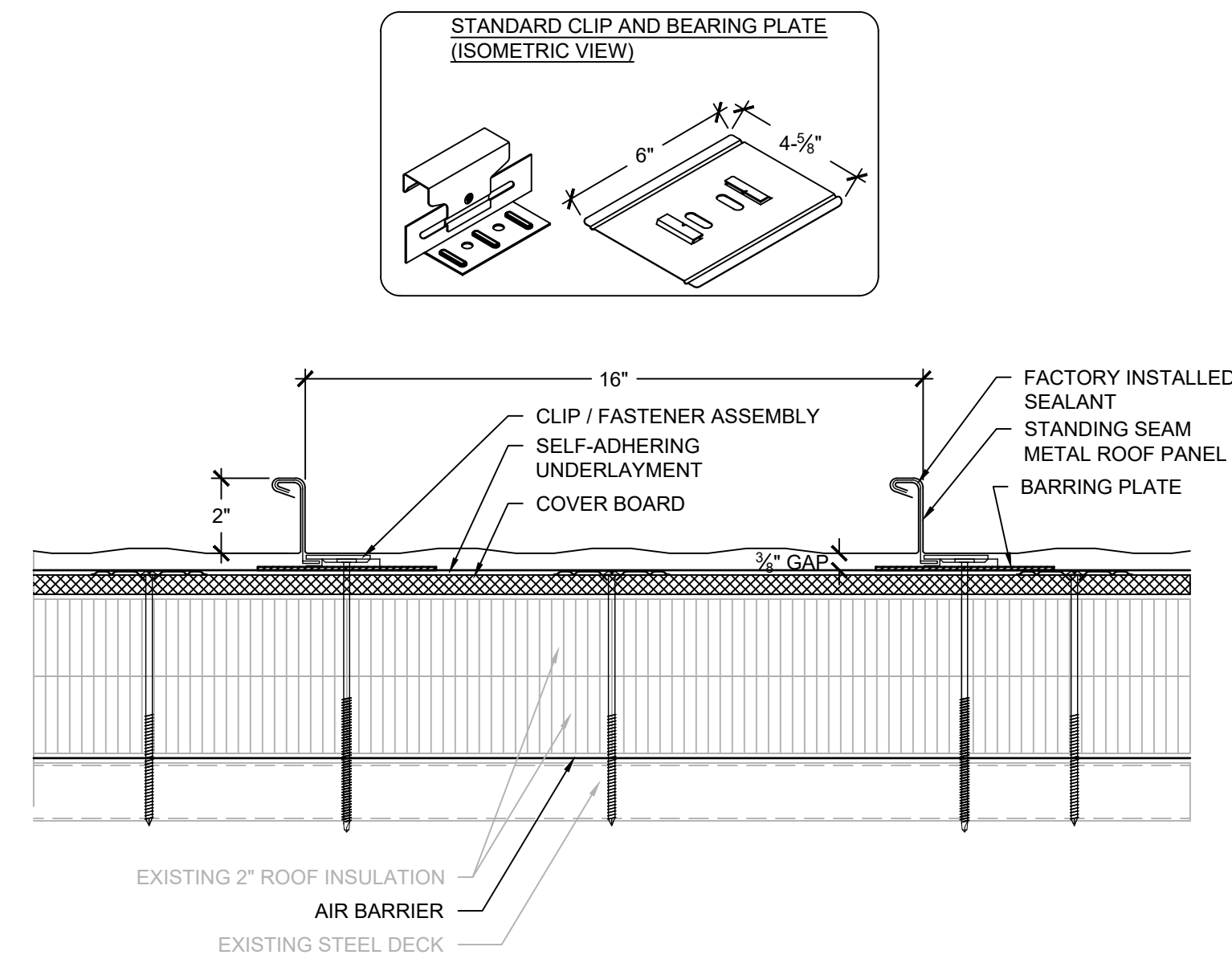
SCALE: 3" = 1'-0"



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B1 EXISTING ROOF SYSTEM - AREAS B & D

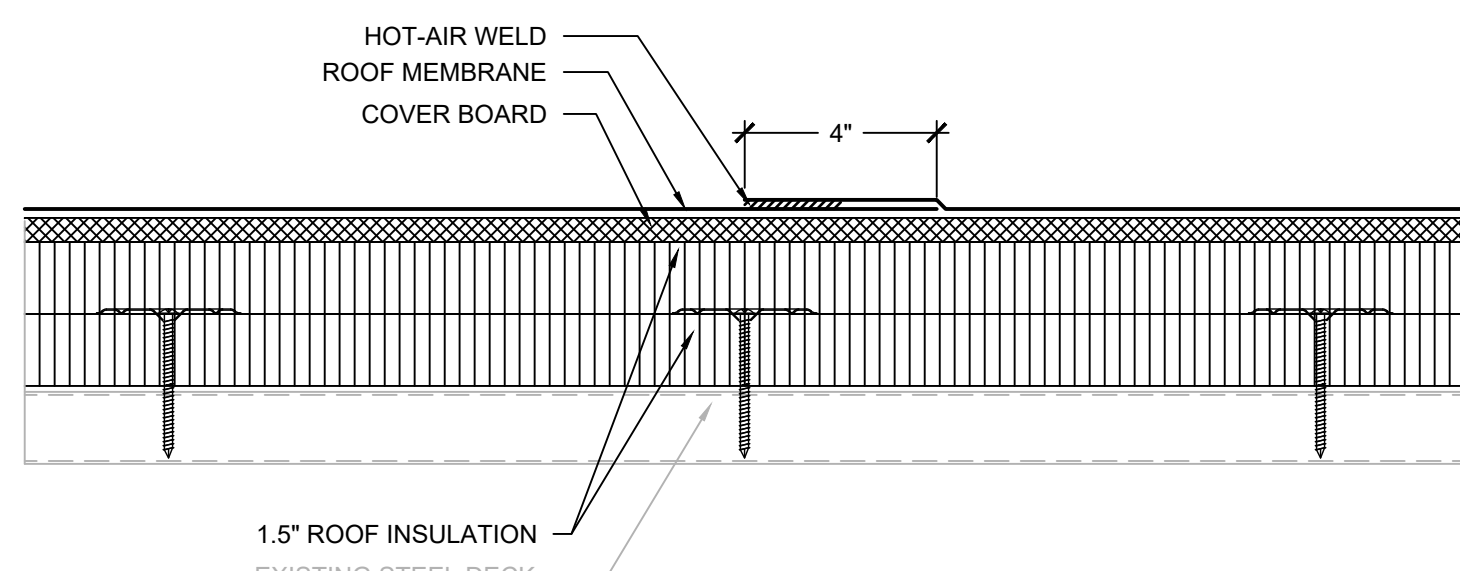
SCALE: 3" = 1'-0"



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B2 ROOF SYSTEM - AREA B

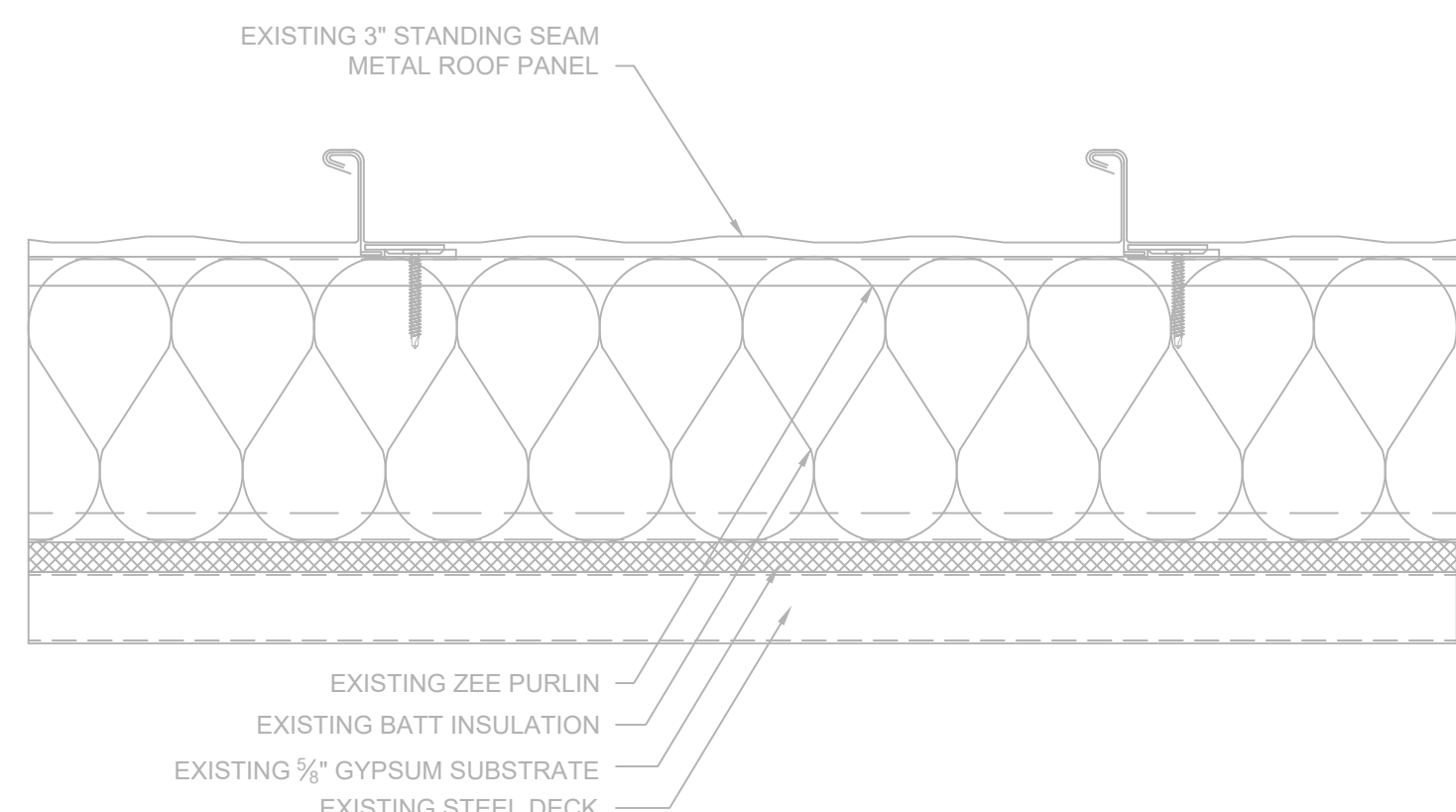
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B3 ROOF SYSTEM - AREA D

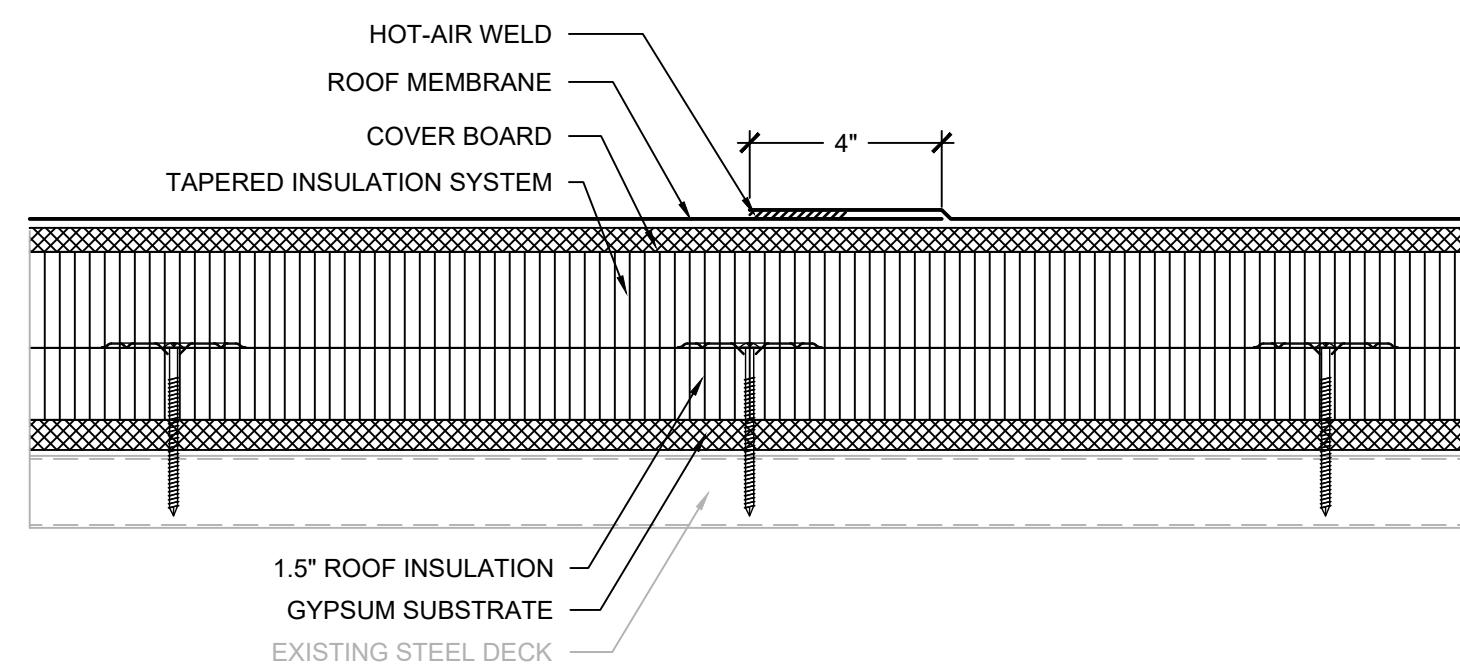
SCALE: 3" = 1'-0"



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C1 EXISTNG ROOF SYSTEM - AREA C

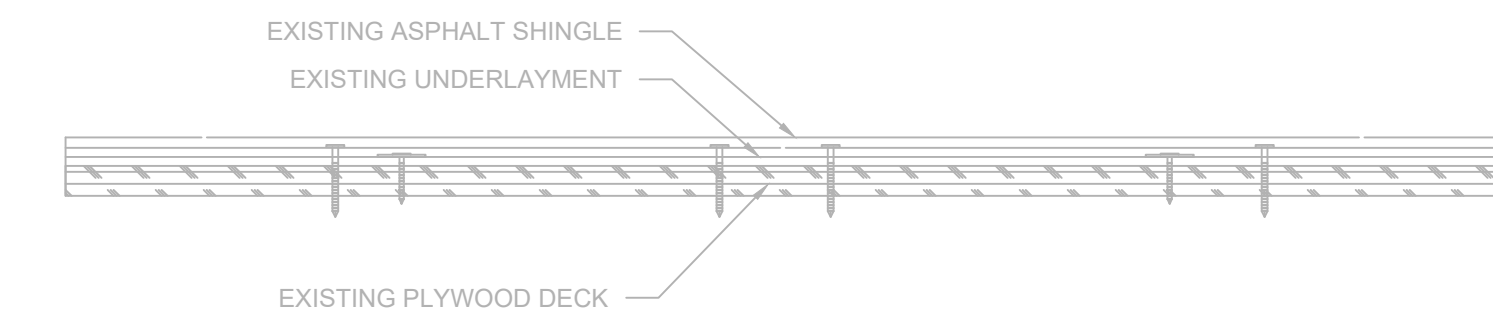
SCALE: 3" = 1'-0"



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C2 ROOF SYSTEM - AREAS C

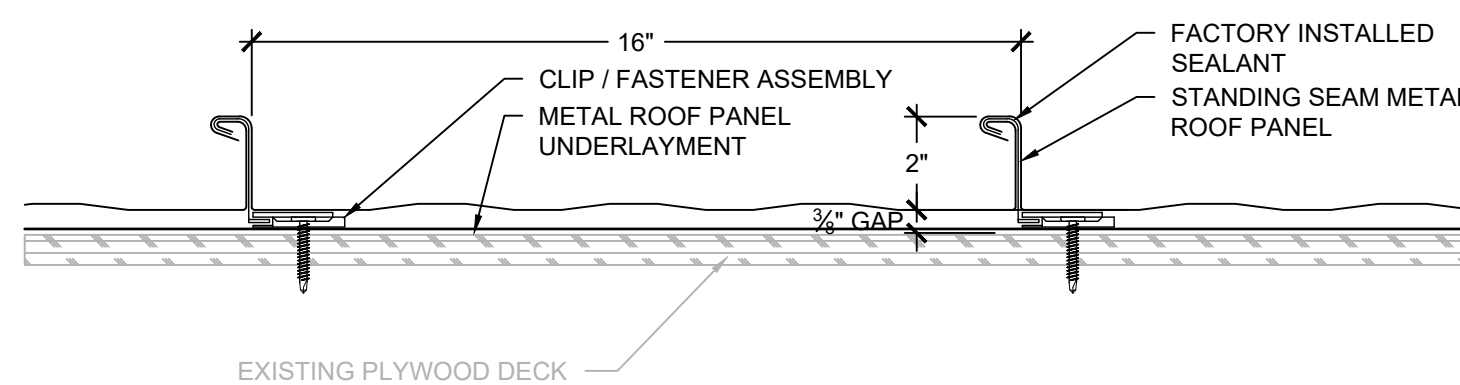
SCALE: 3" = 1'-0"



- NOTES:
- EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING AT TEST CUT LOCATIONS INDICATED ON ROOF PLAN.
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING PLYWOOD DECK TO REMAIN.

D1 AREA F EXISTING ROOF SYSTEM

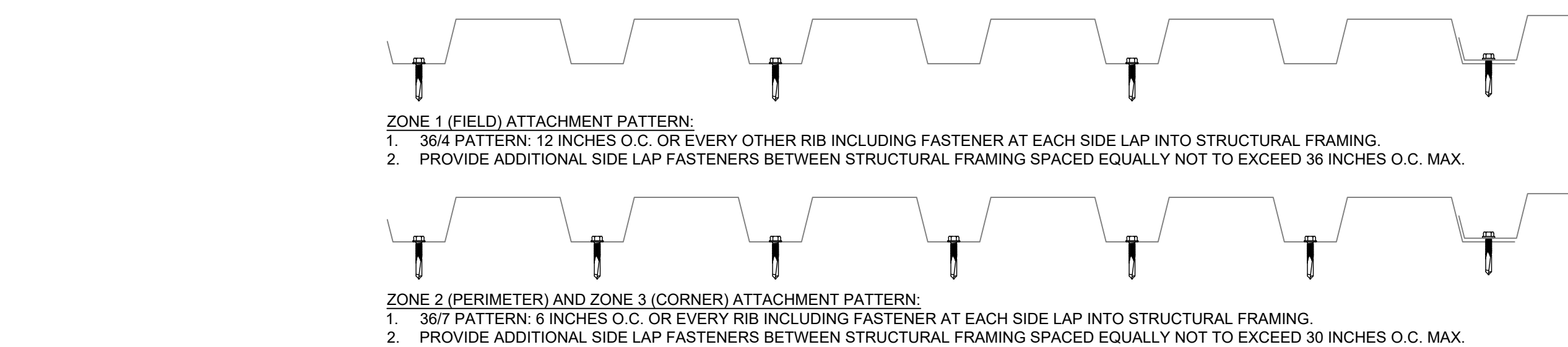
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D2 AREA F ROOF SYSTEM

SCALE: 3" = 1'-0"



F STEEL DECK SECUREMENT

SCALE: 3" = 1'-0"



ENGINEERS

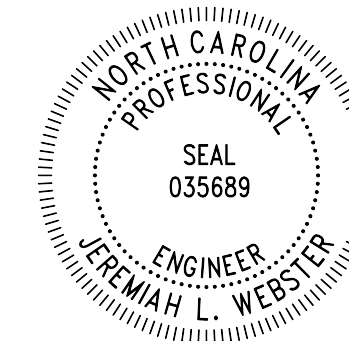
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SHEET TITLE:

ROOF SYSTEMS

DRAWING:

XR301



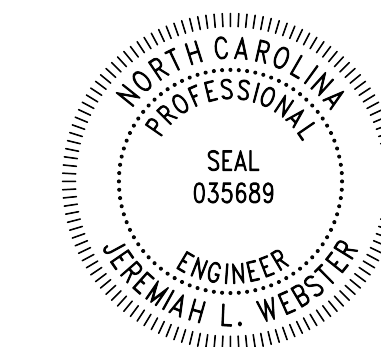
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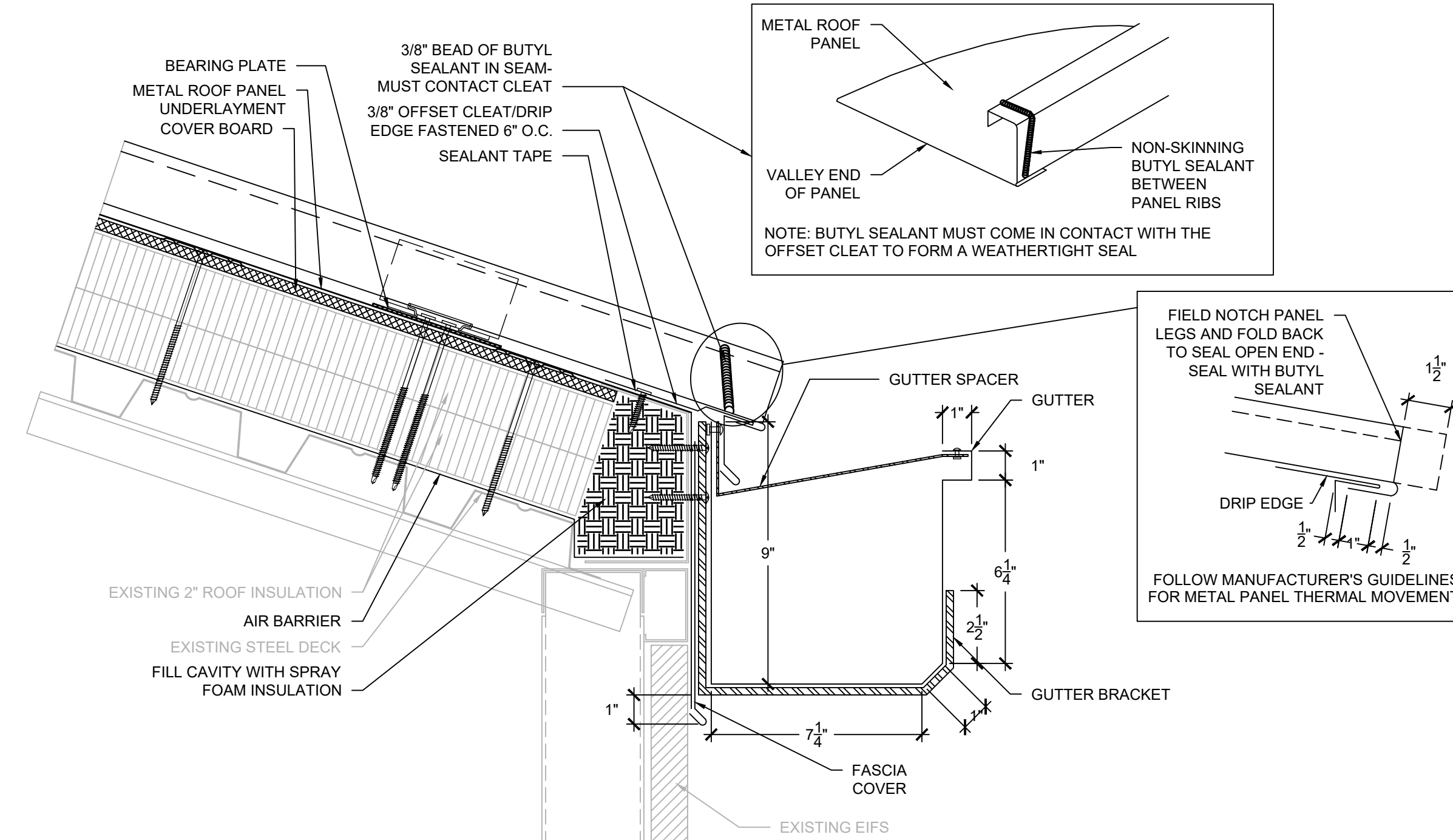
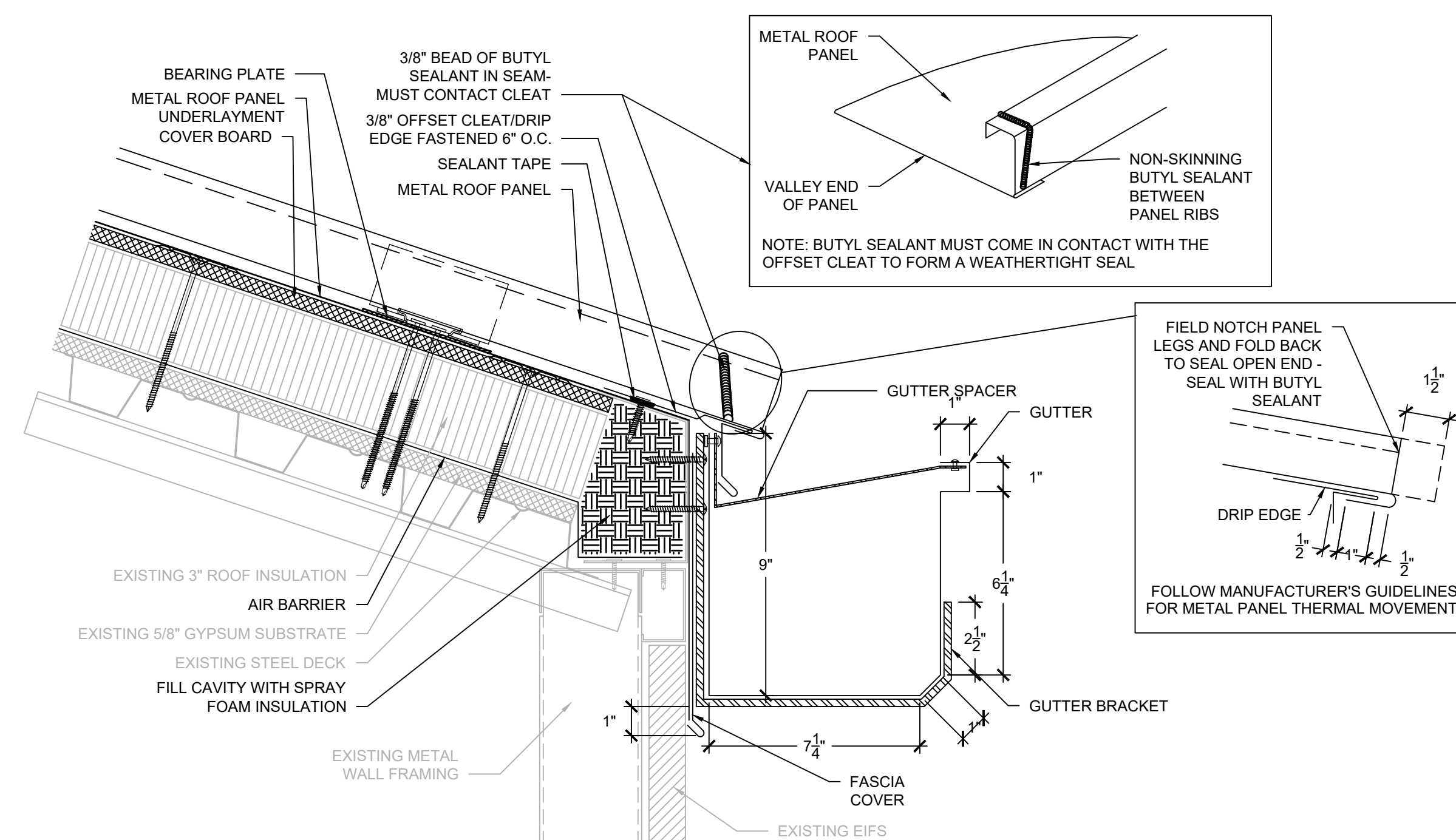
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DETAILS

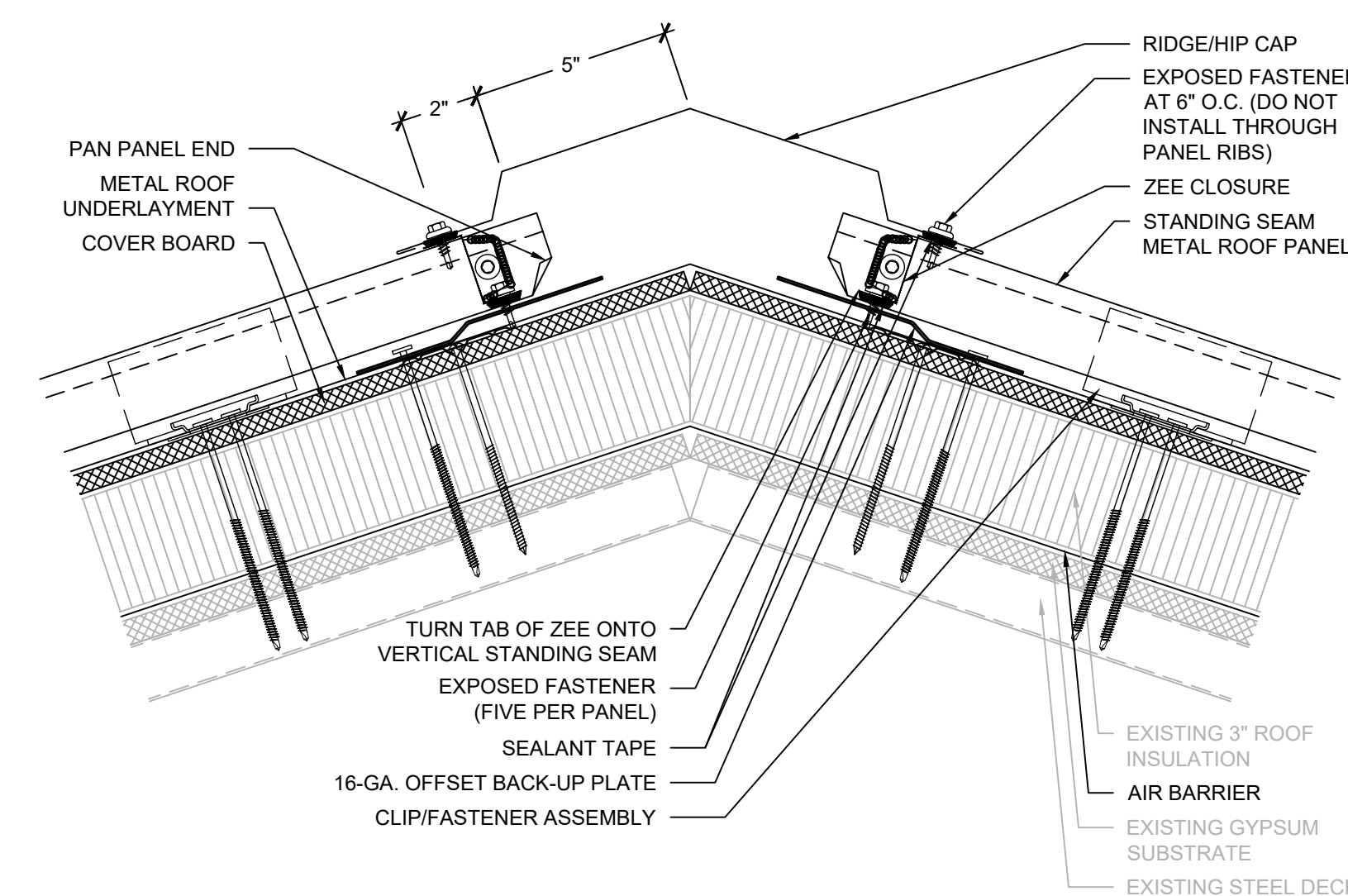
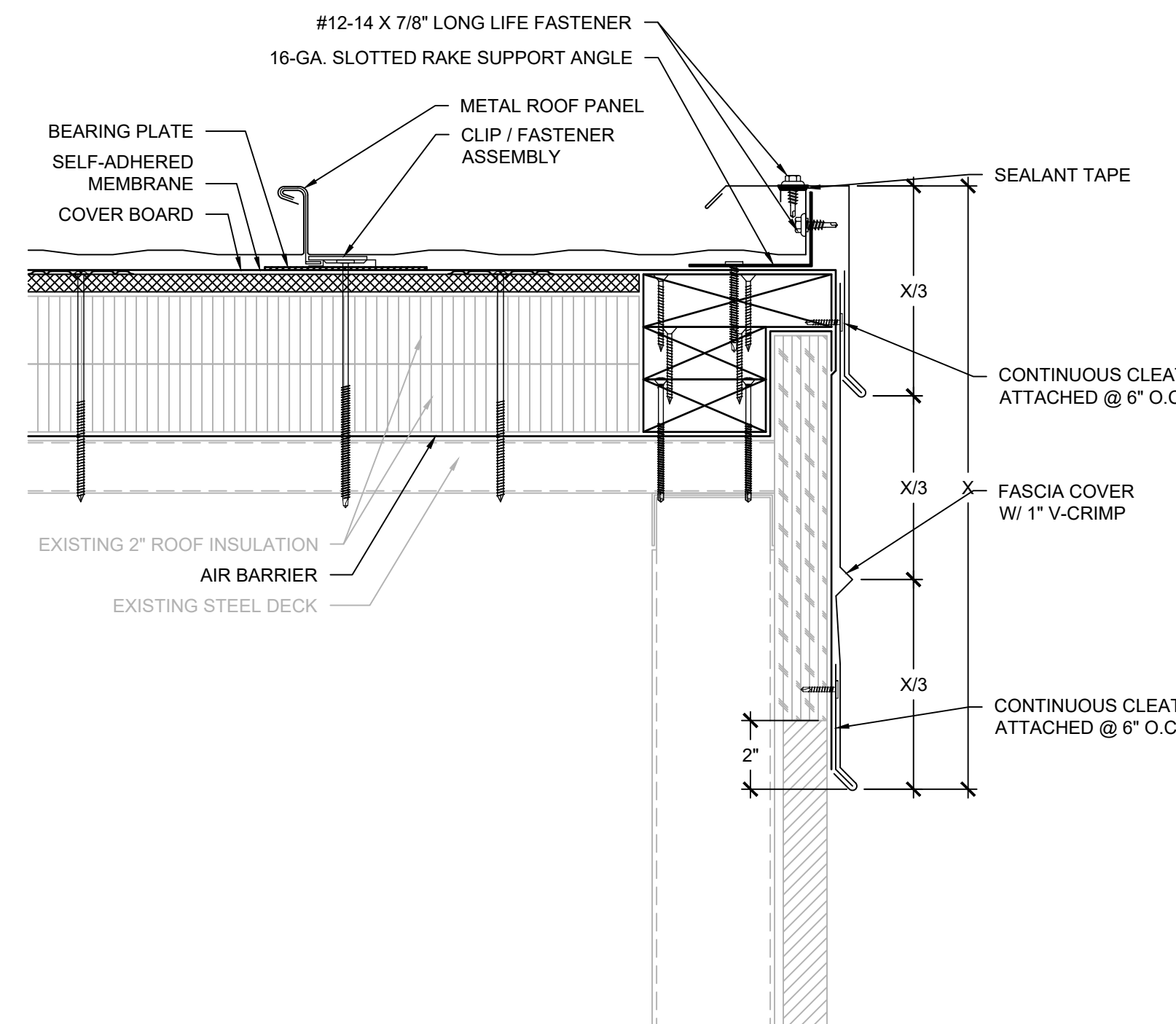
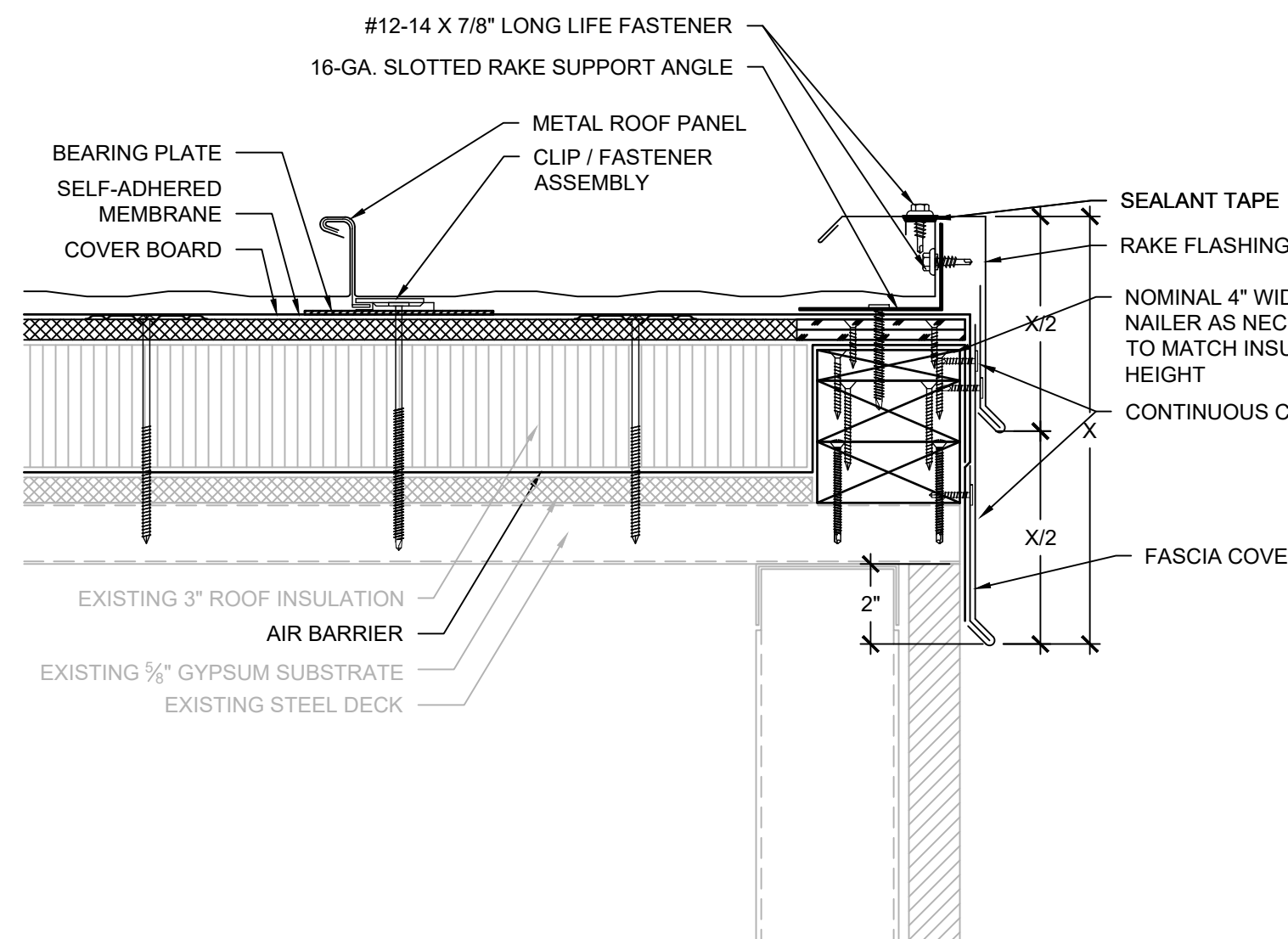
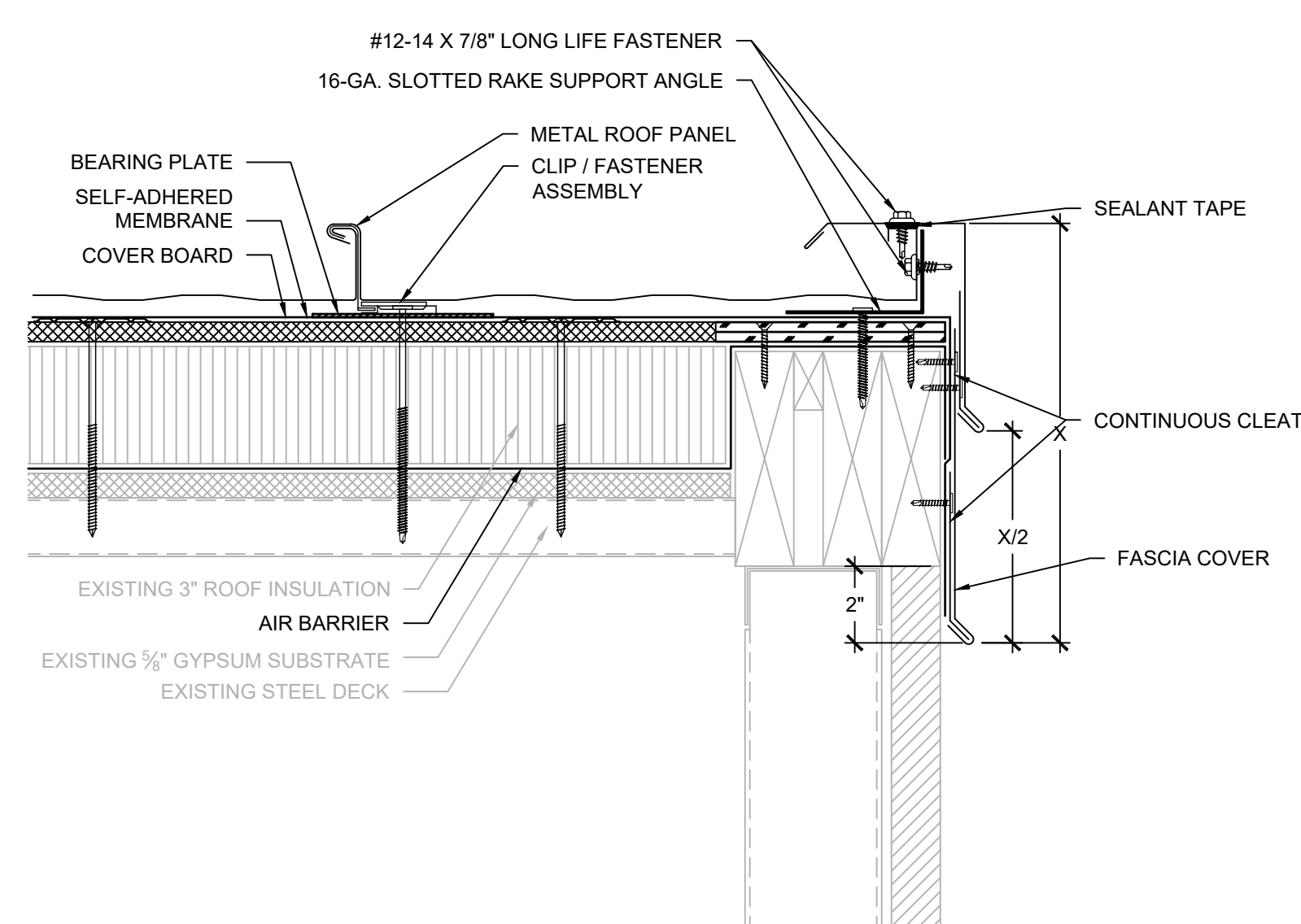
DRAWING:

XR501



1 GUTTER EDGE - AREAS A & E
SCALE: 3" = 1'-0"

2 GUTTER EDGE - AREA B
SCALE: 3" = 1'-0"



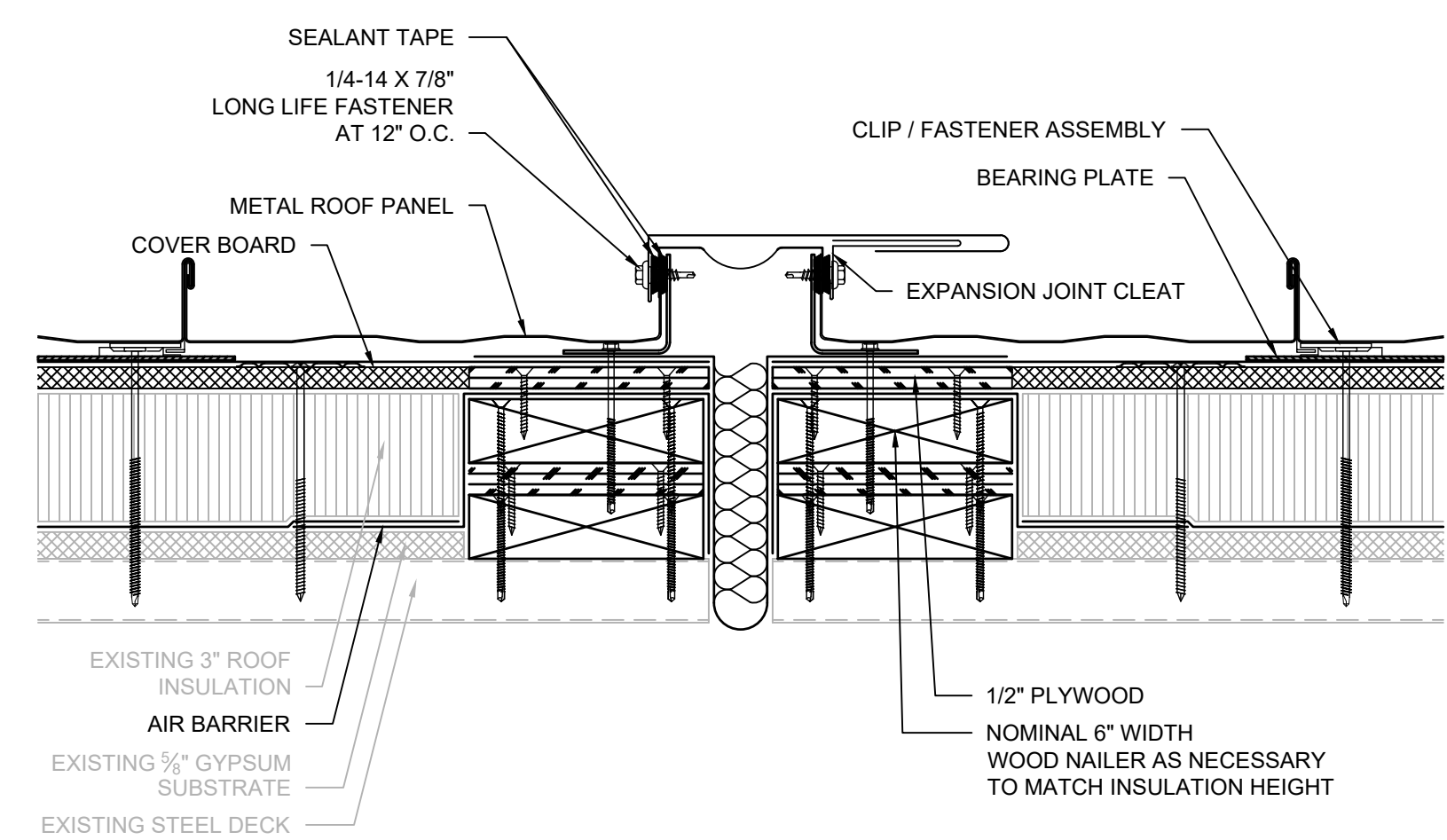
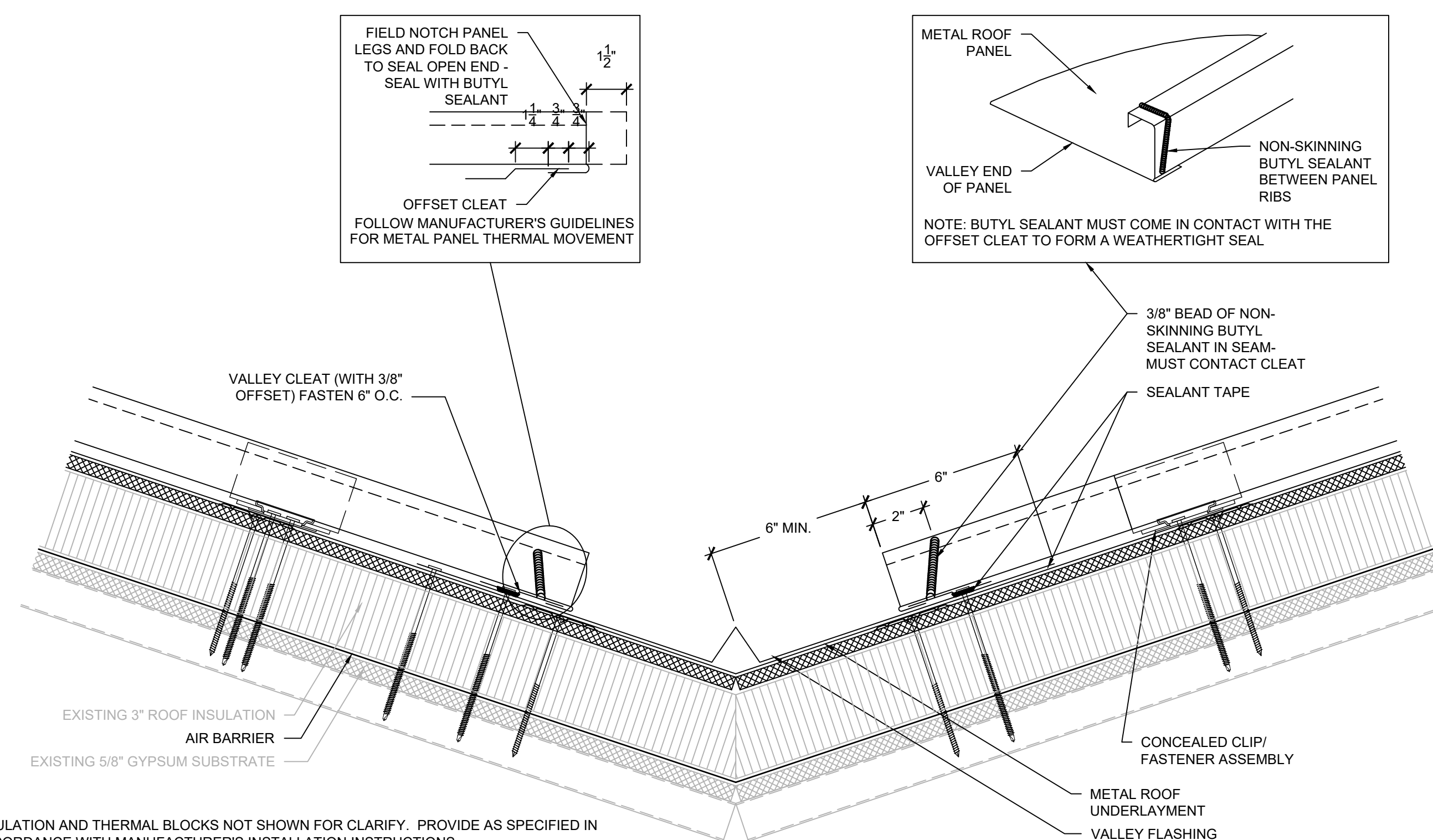
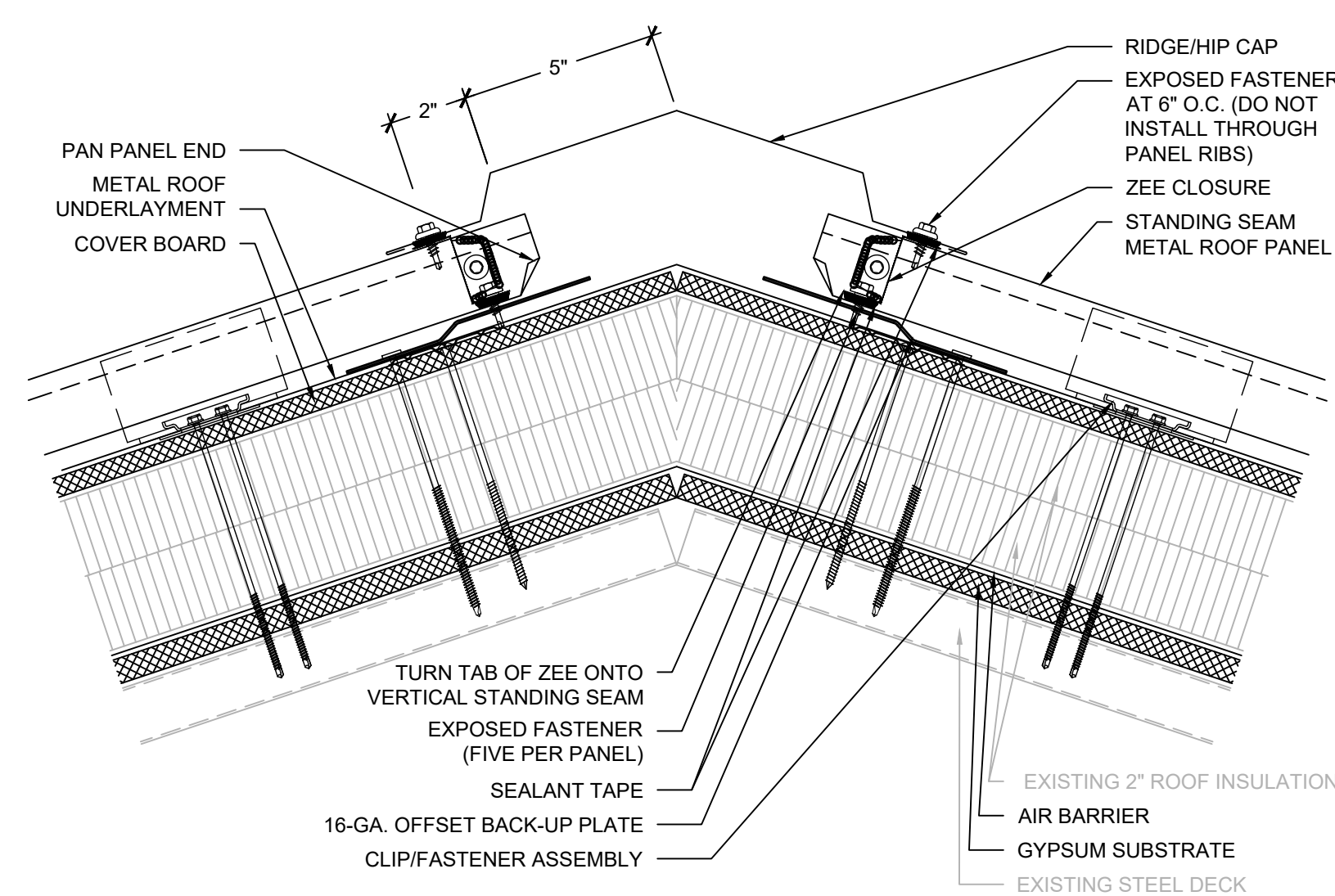
NOTES:
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3 RAKE EDGE - AREAS A & E
SCALE: 3" = 1'-0"

4 RAKE EDGE - AREA A @ CANOPY
SCALE: 3" = 1'-0"

5 RAKE EDGE - AREA B
SCALE: 3" = 1'-0"

6 RIDGE / HIP - AREAS A, & E
SCALE: 3" = 1'-0"



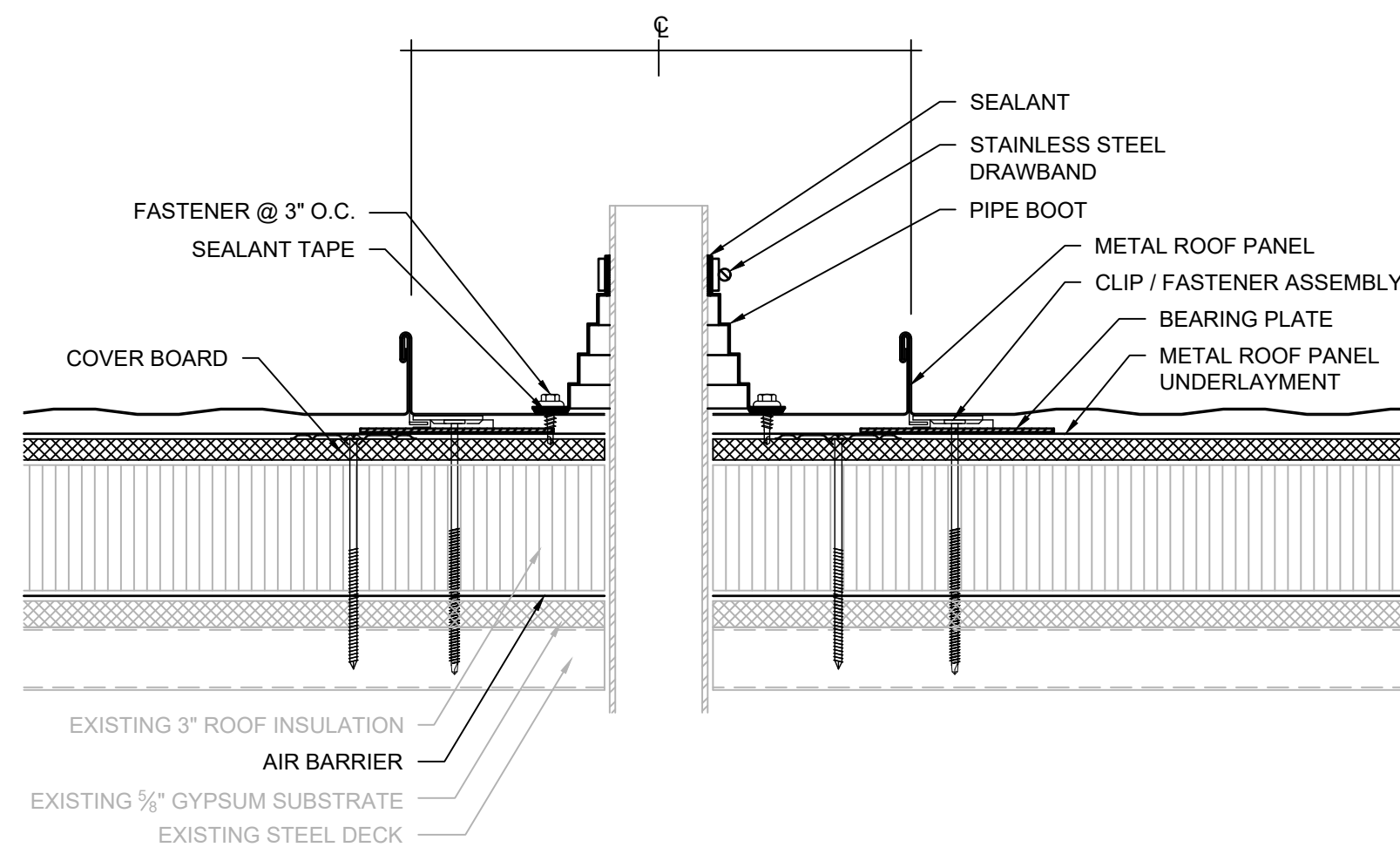
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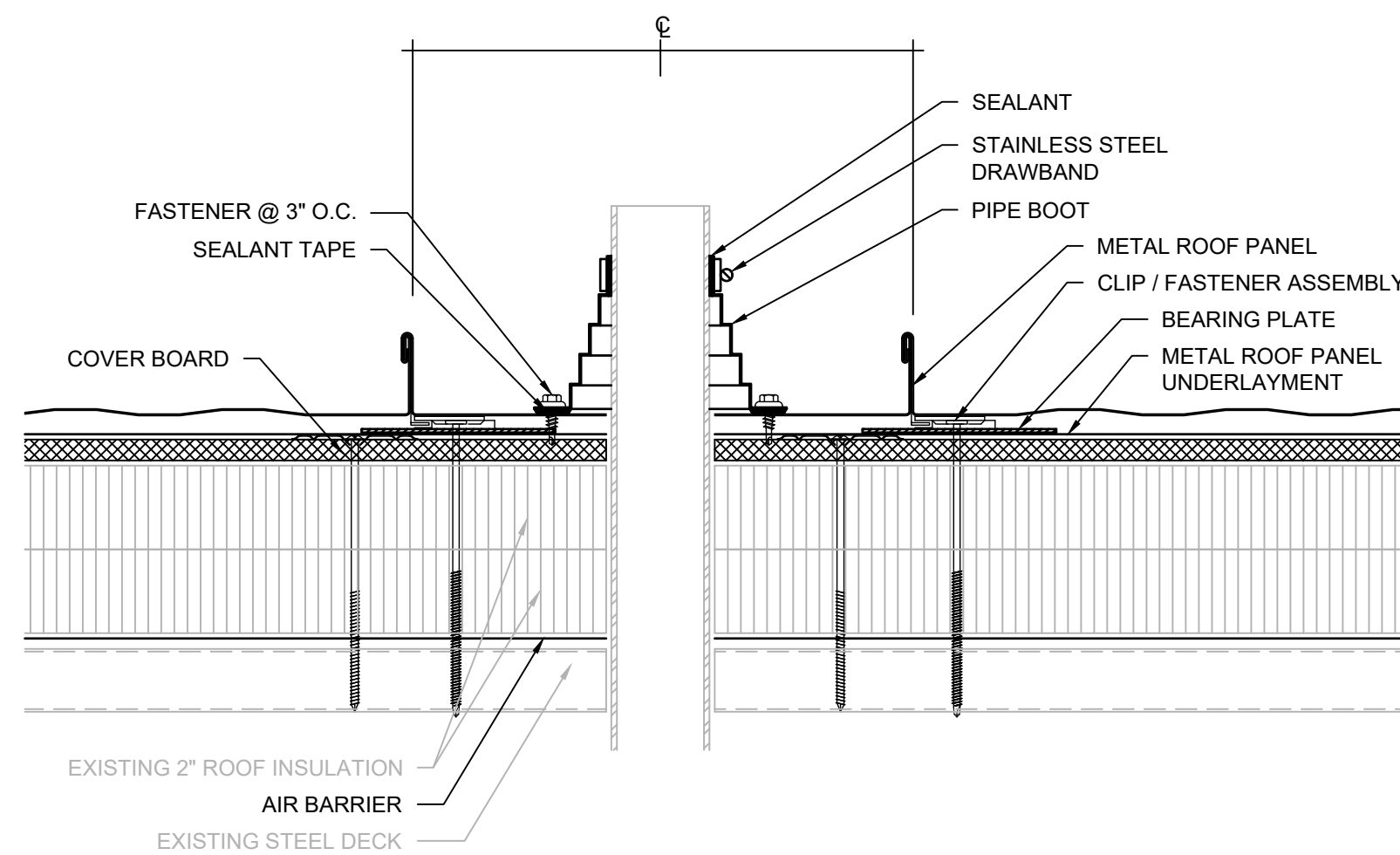
7 RIDGE / HIP - AREA B
SCALE: 3" = 1'-0"

8 VALLEY FLASHING
SCALE: 3" = 1'-0"

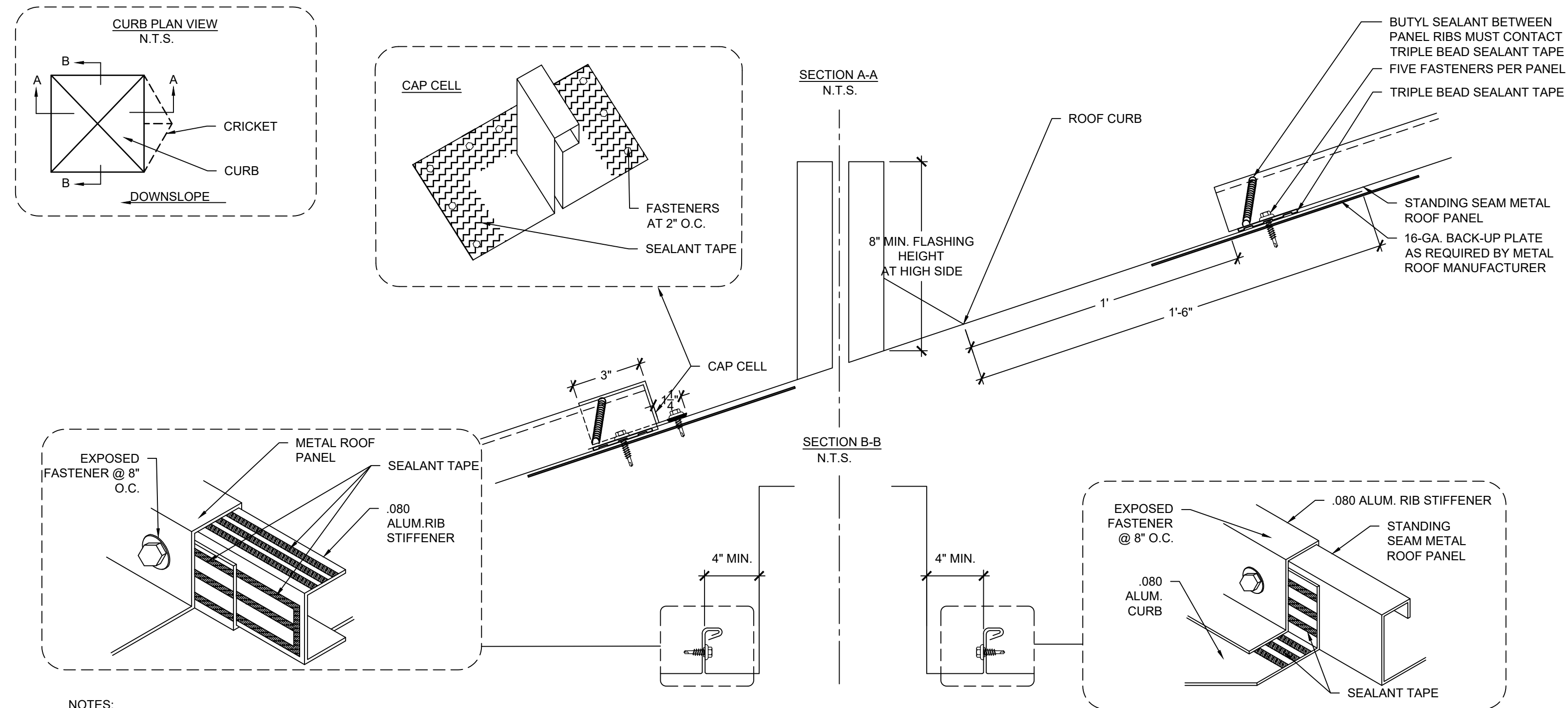
9 EXPANSION JOINT
SCALE: 3" = 1'-0"



NOTES:
1. RELOCATE PIPE PENETRATION TO CENTER OF PANEL TO PROVIDE PIPE BOOT. ALTERNATIVELY, PROVIDE FLAT CURB ACROSS TWO PANELS TO PROVIDE PIPE BOOT FLASHING WITHOUT INTERFERENCE WITH METAL ROOF PANEL SEAM.



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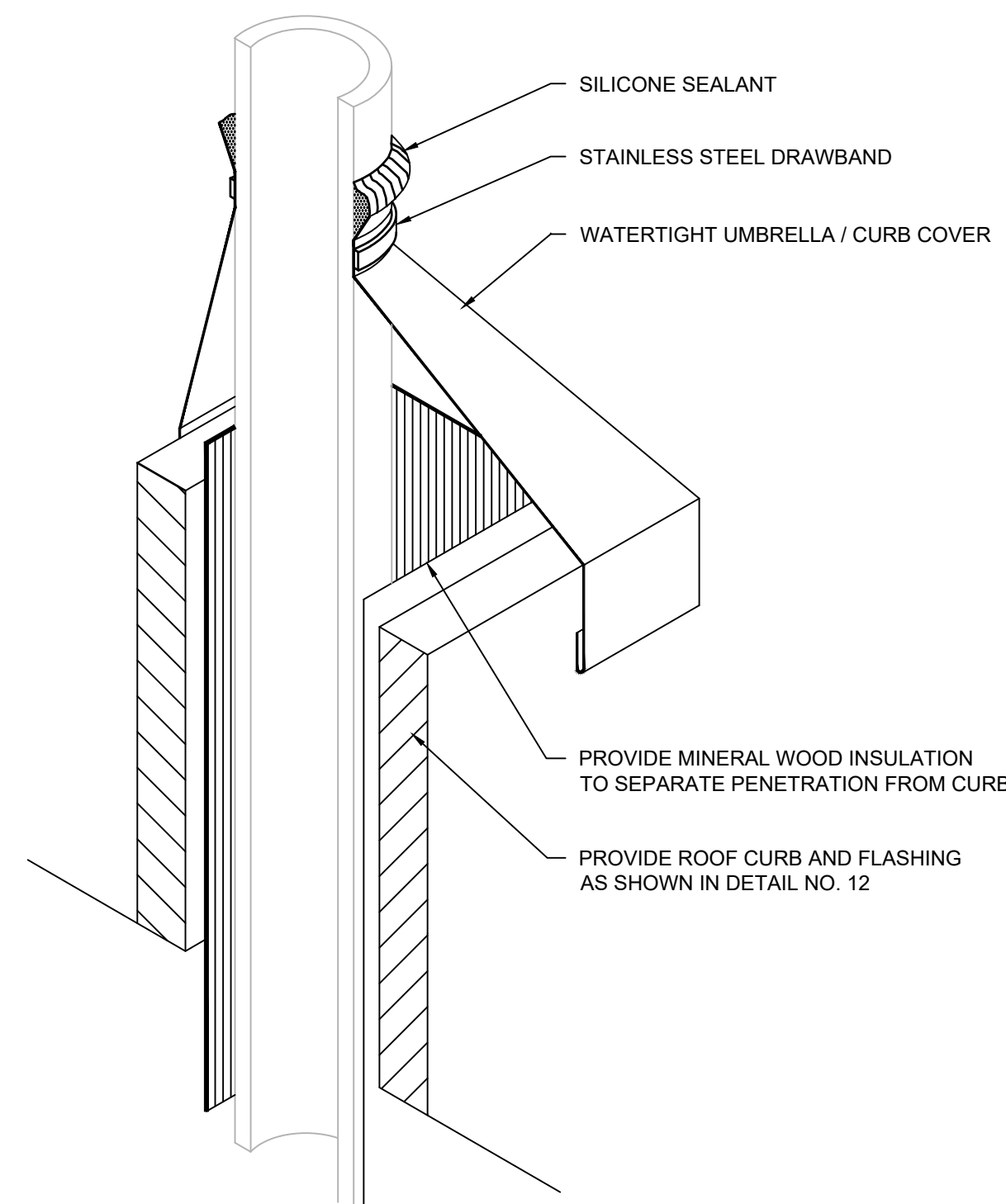


NOTES:
1. ROOF RETROFIT FRAMING NOT SHOWN FOR CLARITY. REFER TO ACCEPTED SHOP DRAWINGS.

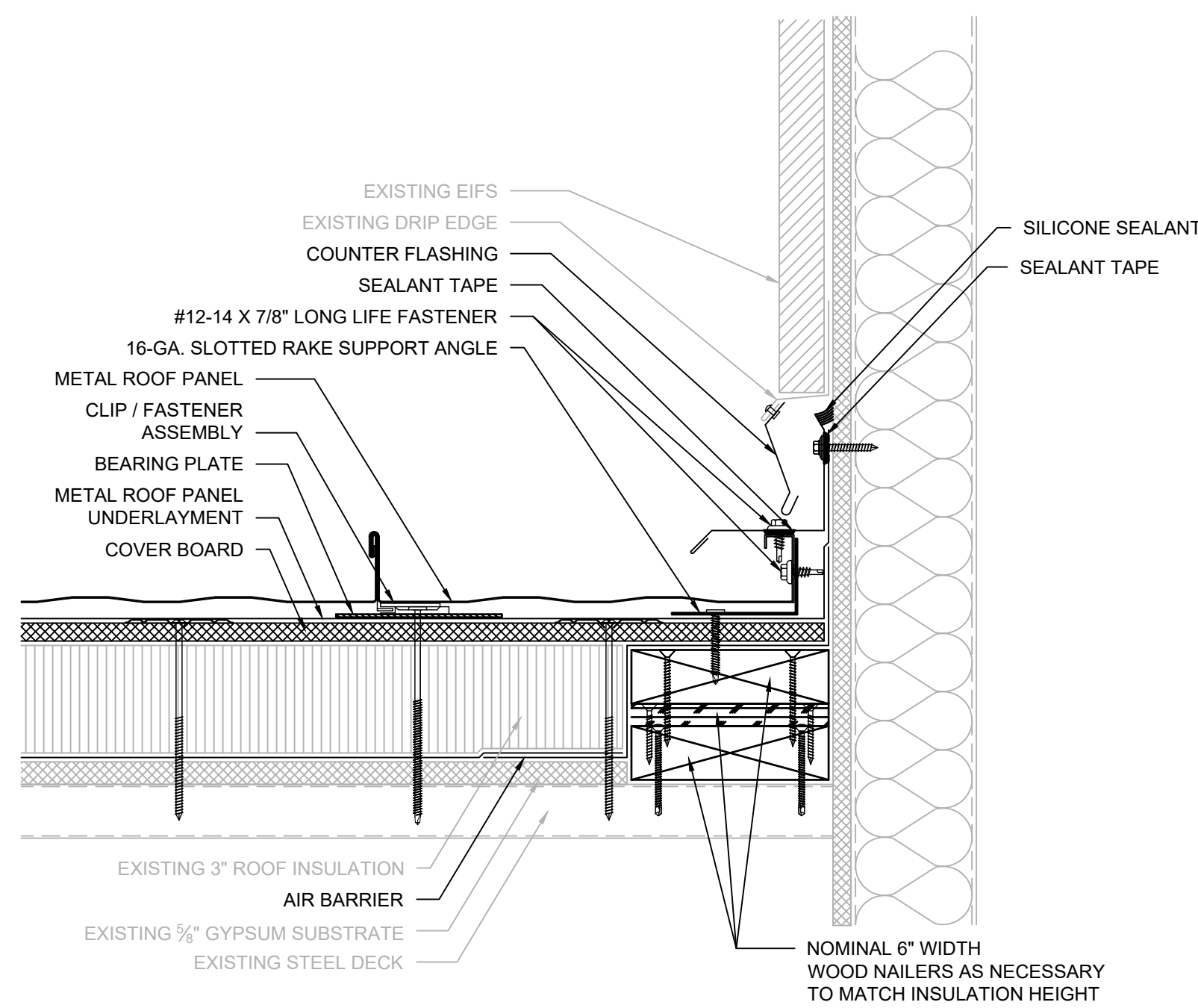
10 PIPE PENETRATION - AREA A
SCALE: 3" = 1'-0"

11 PIPE PENETRATION - AREA B
SCALE: 3" = 1'-0"

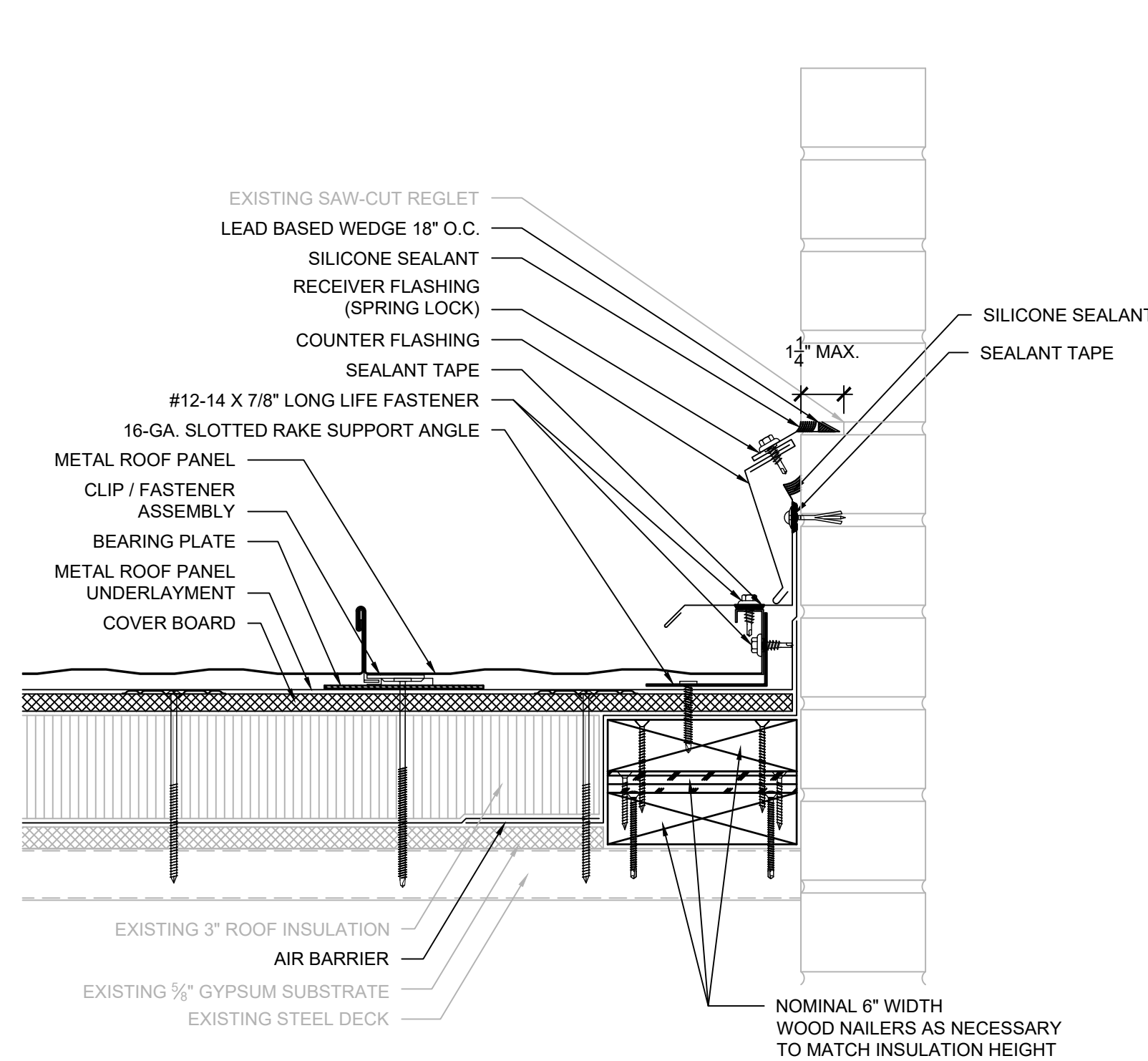
12 MECHANICAL CURB
SCALE: 3" = 1'-0"



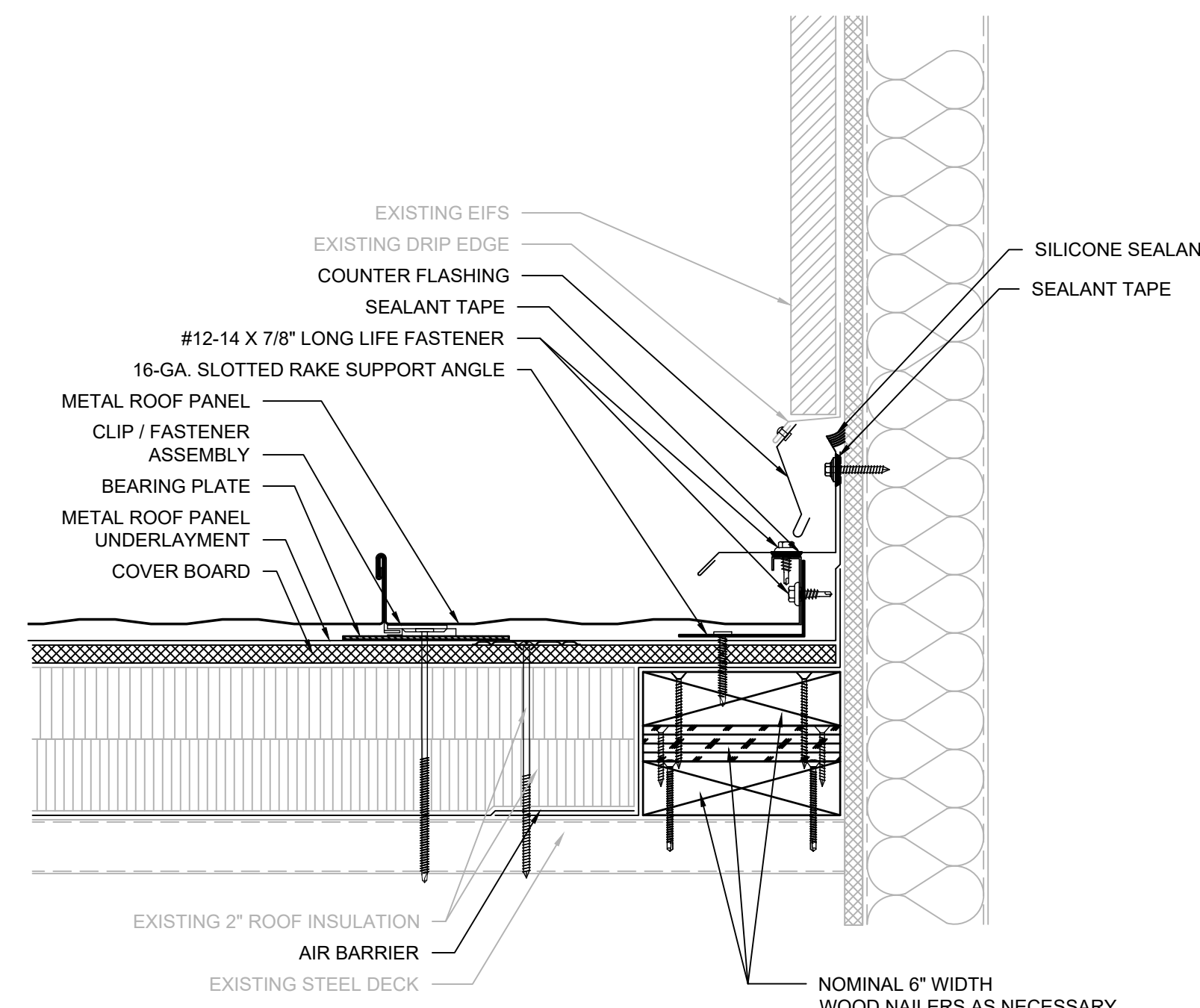
13 HIGH HEAT CURB
SCALE: 3" = 1'-0"



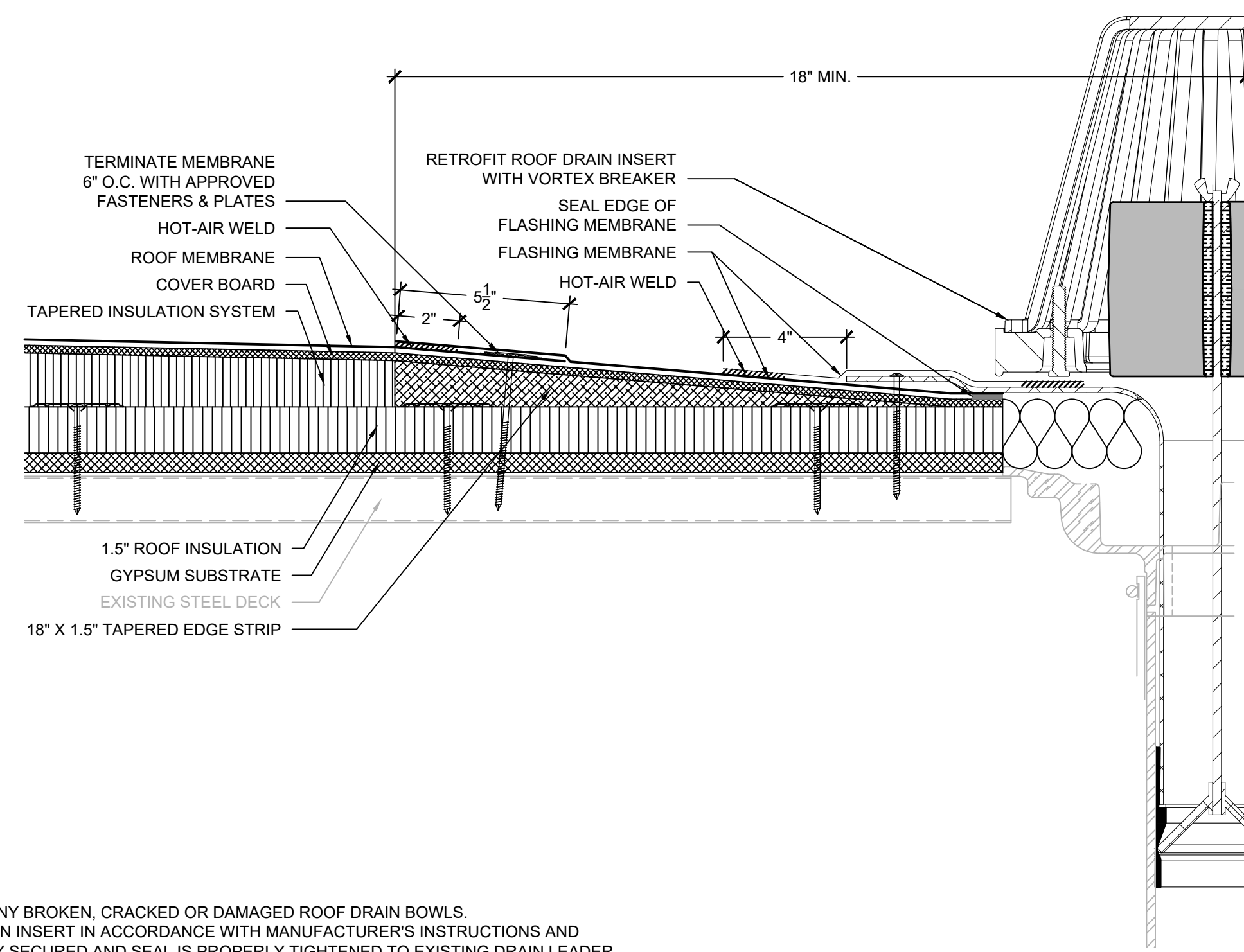
14 SIDE WALL FLASHING - AREA E
SCALE: 3" = 1'-0"



15 SIDE WALL FLASHING - AREA A @ PARAPET
SCALE: 3" = 1'-0"

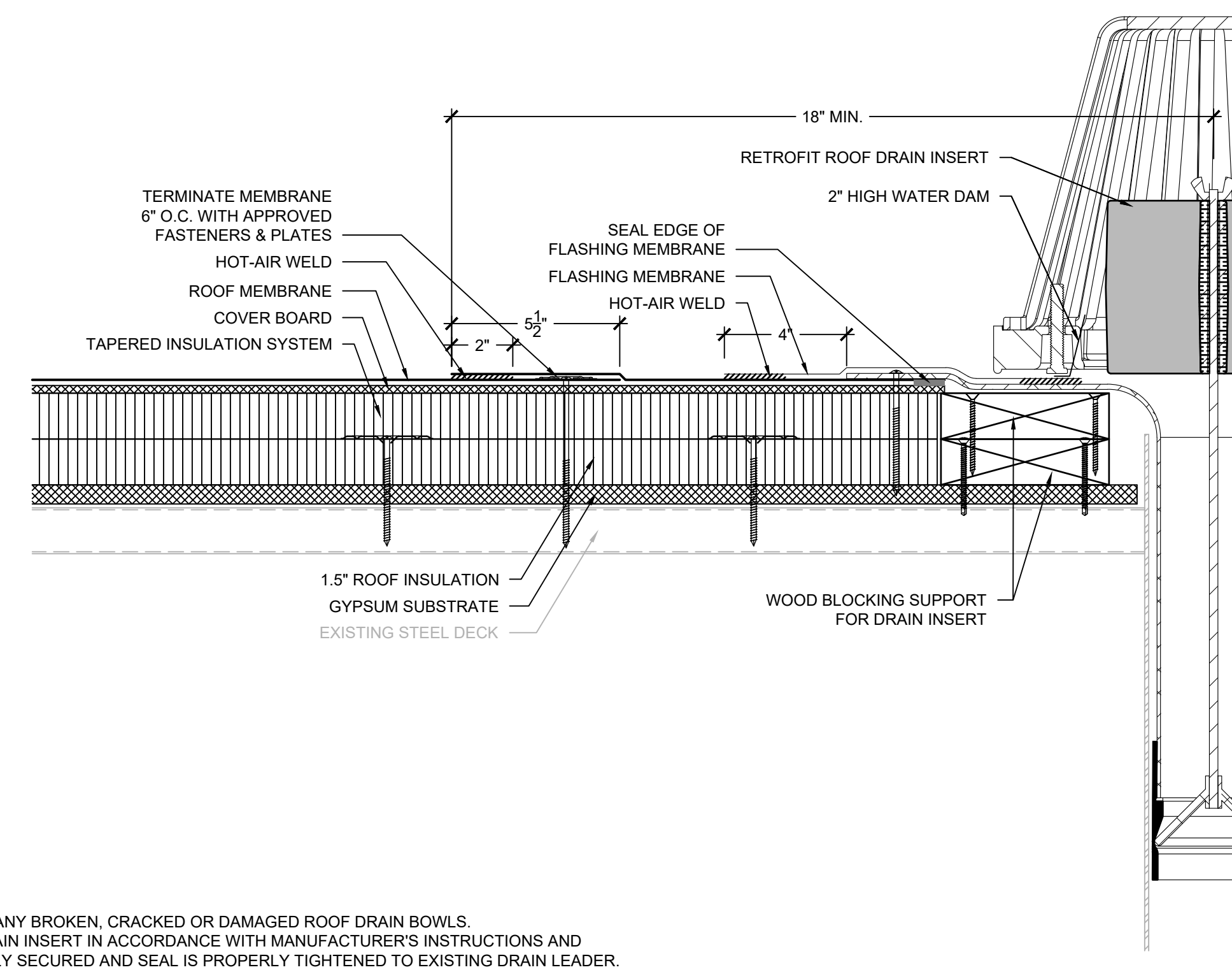


16 SIDE WALL FLASHING - AREA B
SCALE: 3" = 1'-0"



NOTES:
1. NOTIFY ENGINEER OF ANY BROKEN, CRACKED OR DAMAGED ROOF DRAIN BOWLS.
2. INSTALL RETROFIT DRAIN INSERT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ENSURE IT IS PROPERLY SECURED AND SEAL IS PROPERLY TIGHTENED TO EXISTING DRAIN LEADER.

17 ROOF DRAIN
SCALE: 3" = 1'-0"



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18 OVERFLOW DRAIN
SCALE: 3" = 1'-0"



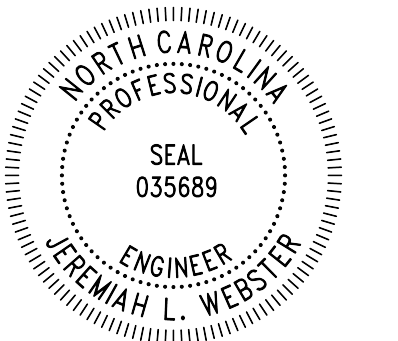
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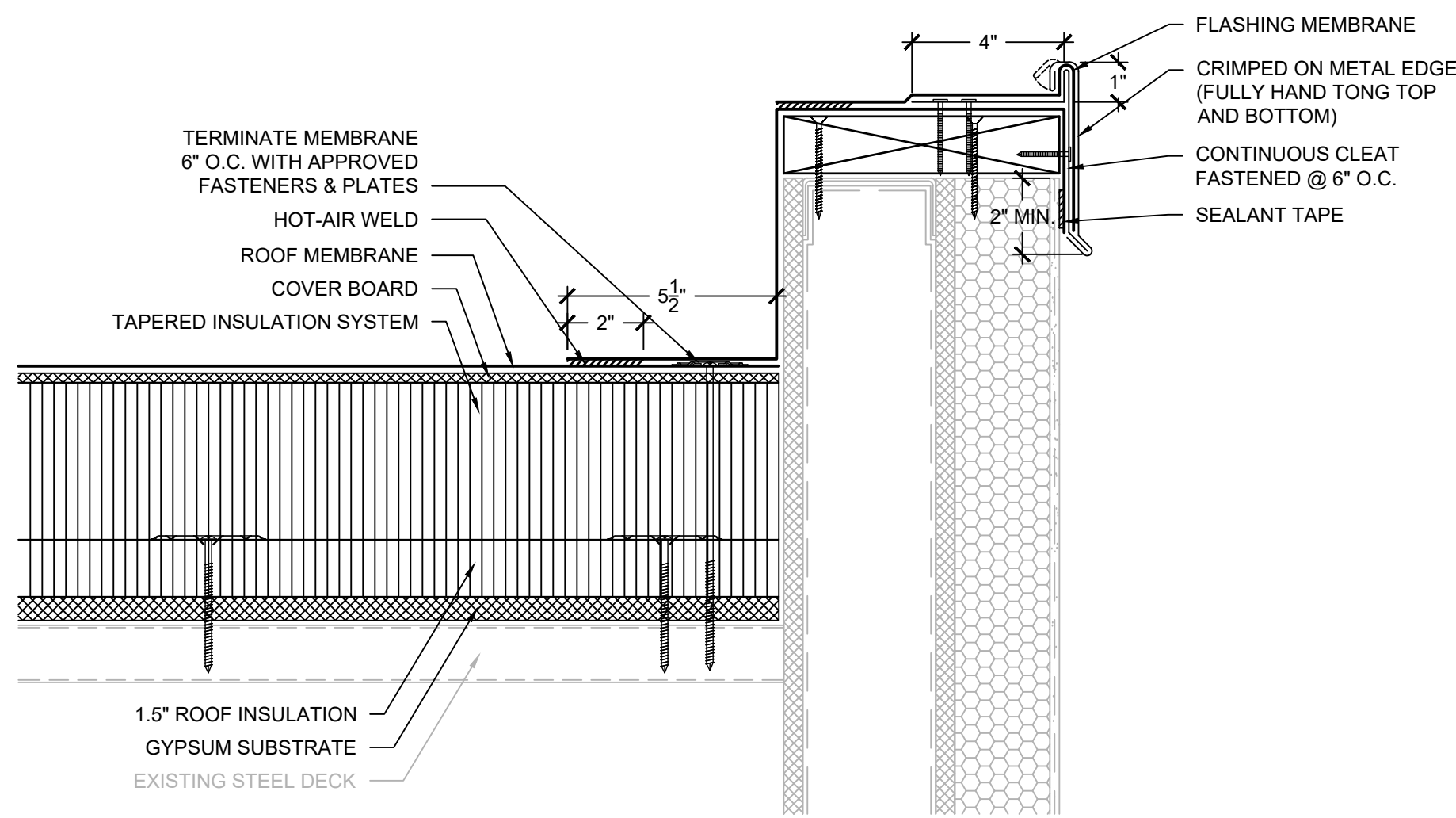
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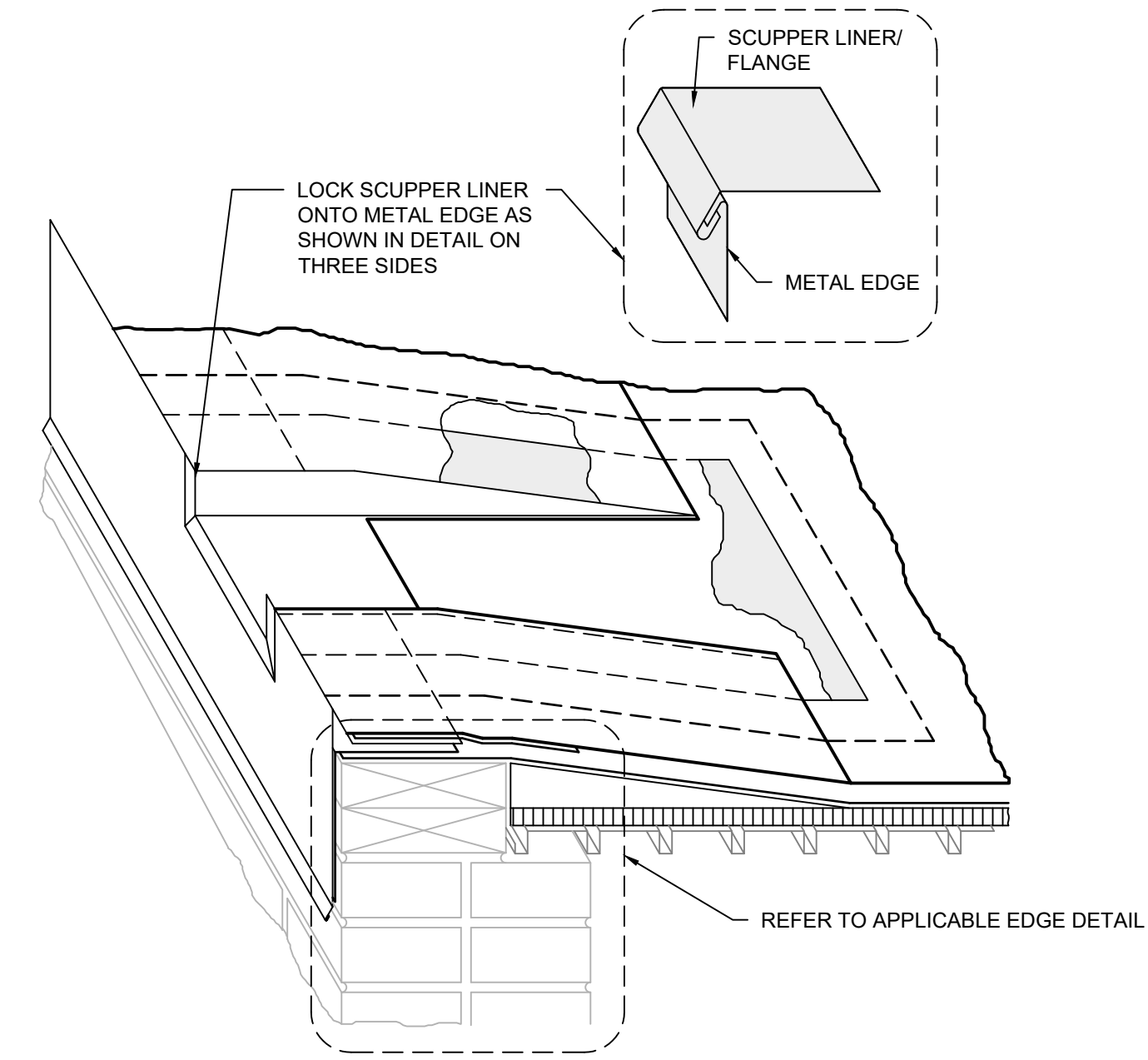
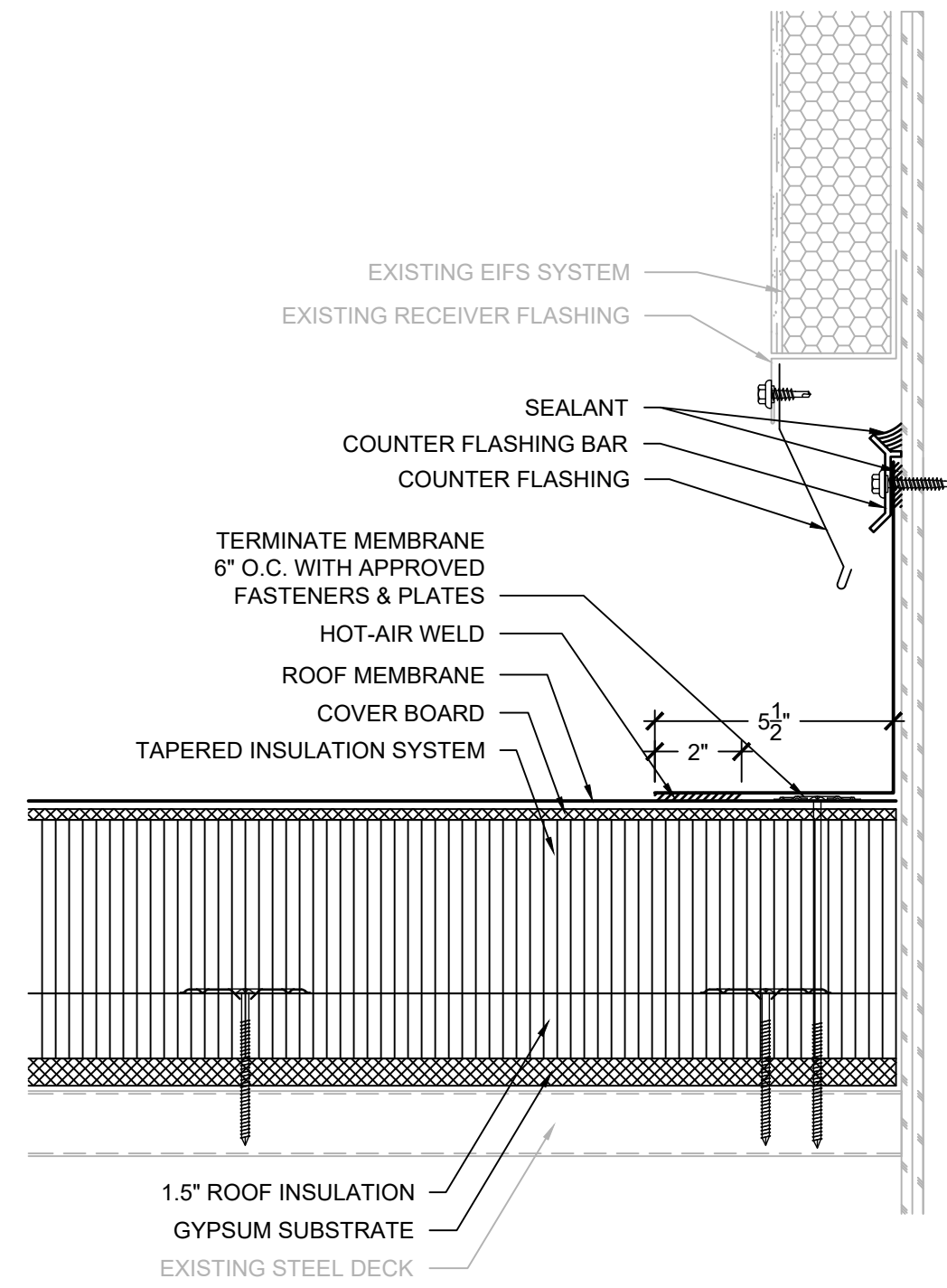
DETAILS

DRAWING:

XR502



- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
 2. METAL EDGE SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHOD RE-3. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.
 3. PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.



- NOTES:
1. DETAIL IS FOR GENERAL REPRESENTATION ONLY. REFER TO CROSS SECTION FOR SPECIFIC ORDER AND CALLOUT OF COMPONENTS.
 2. PRIME FLANGES OF SCUPPER LINER AND SET IN FULL BED OF ROOF CEMENT.
 3. SCUPPER LINER/FLANGE SHALL BE ONE PIECE WITH JOINTS FULLY SOLDERED.

19 PARAPET WALL METAL EDGE

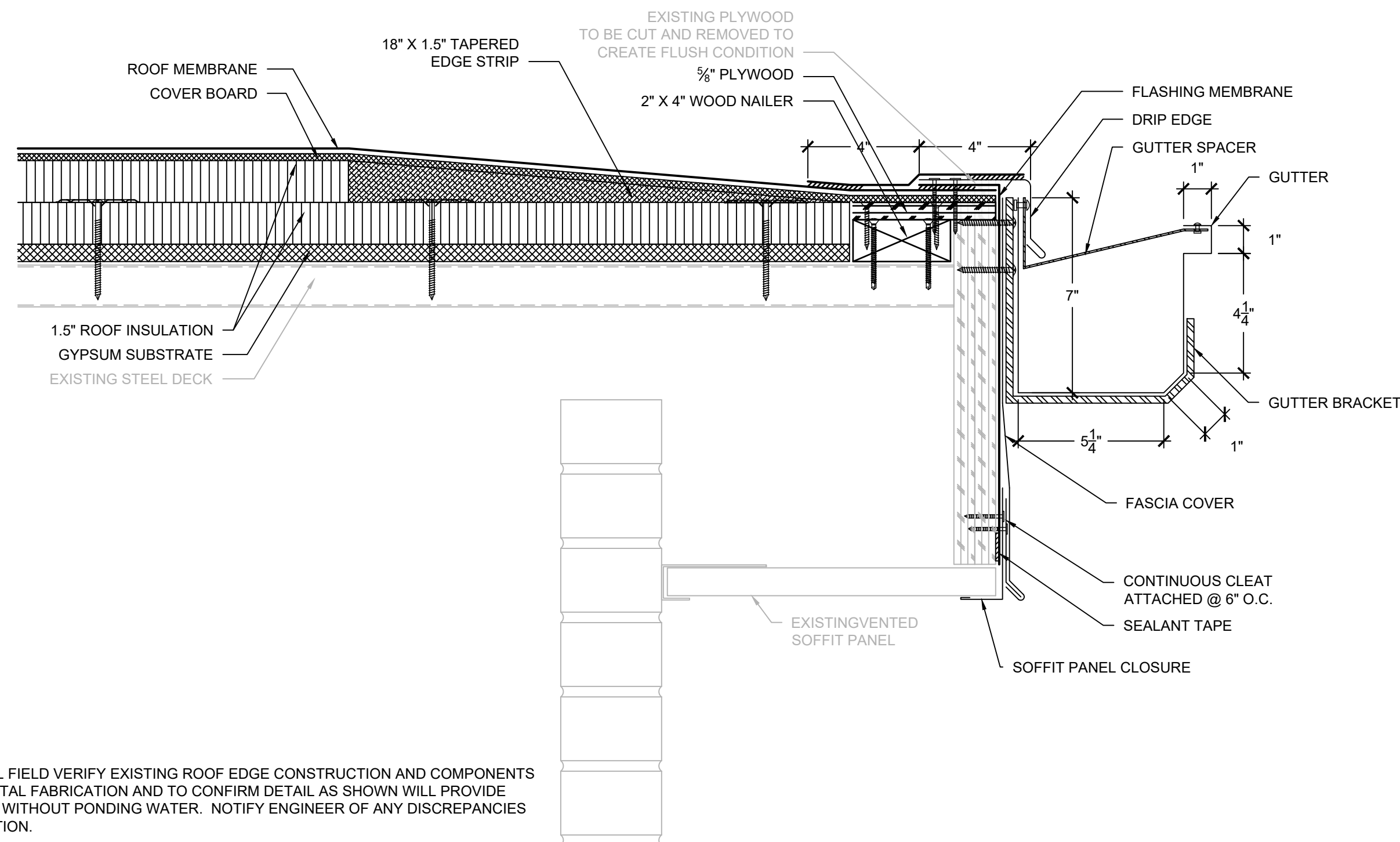
SCALE: 3" = 1'-0"

20 ELEVATION WALL

SCALE: 3" = 1'-0"

21 THROUGH EDGE SCUPPER

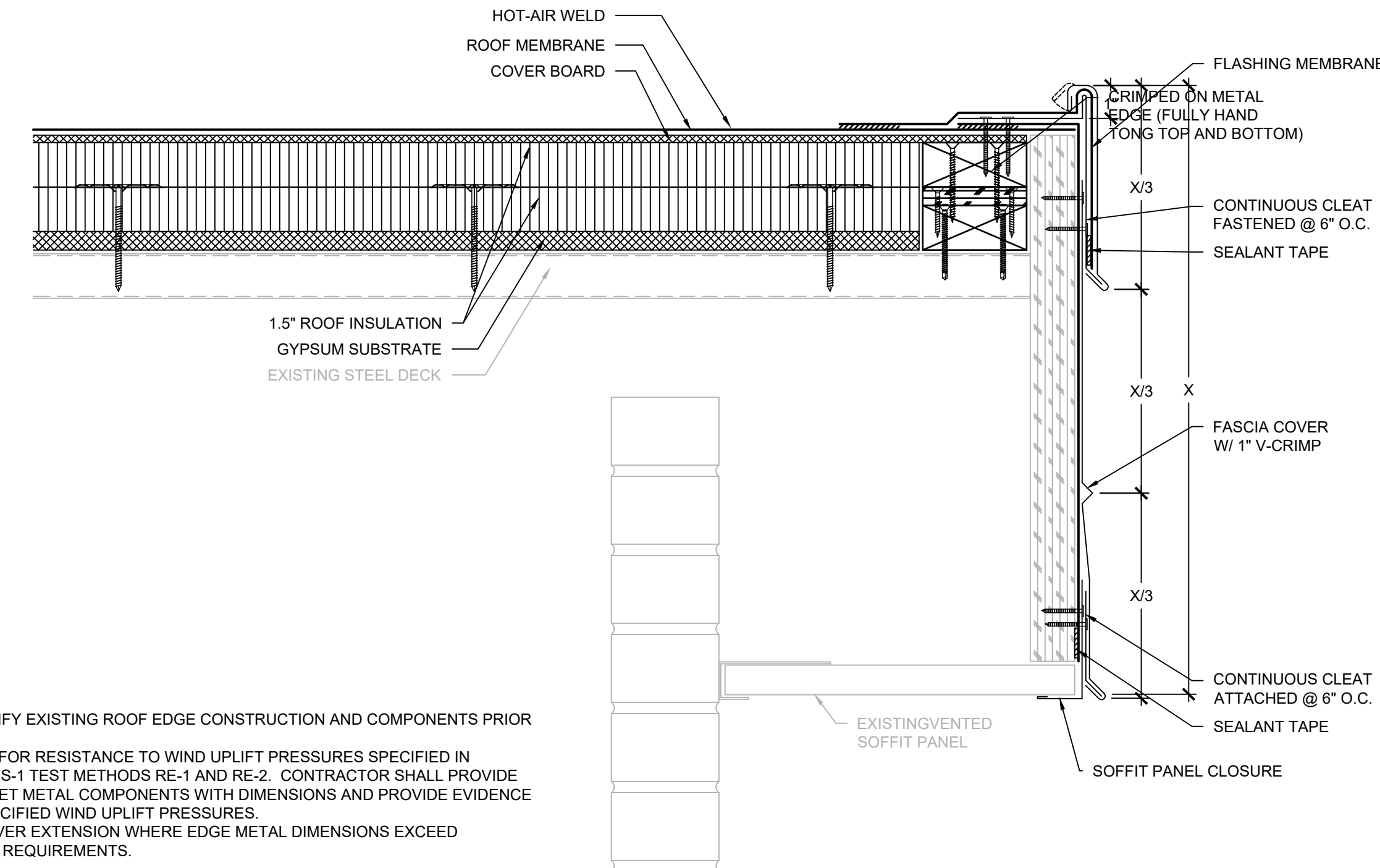
SCALE: 3" = 1'-0"



- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION AND TO CONFIRM DETAIL AS SHOWN WILL PROVIDE POSITIVE DRAINAGE WITHOUT PONDING WATER. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

22 GUTTER EDGE - AREA D

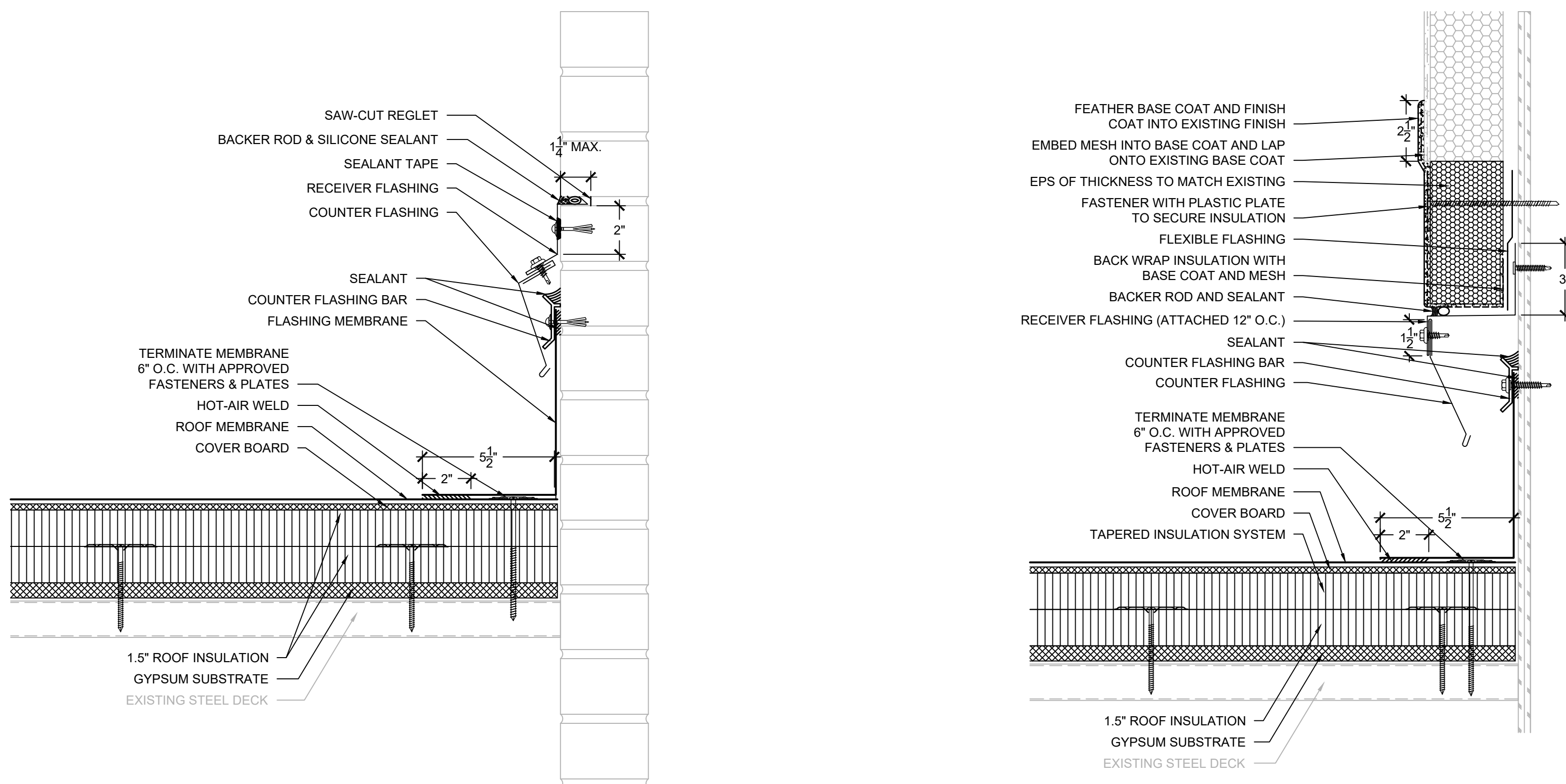
SCALE: 3" = 1'-0"



- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
 2. EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHODS RE-1 AND RE-2. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.
 3. PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.

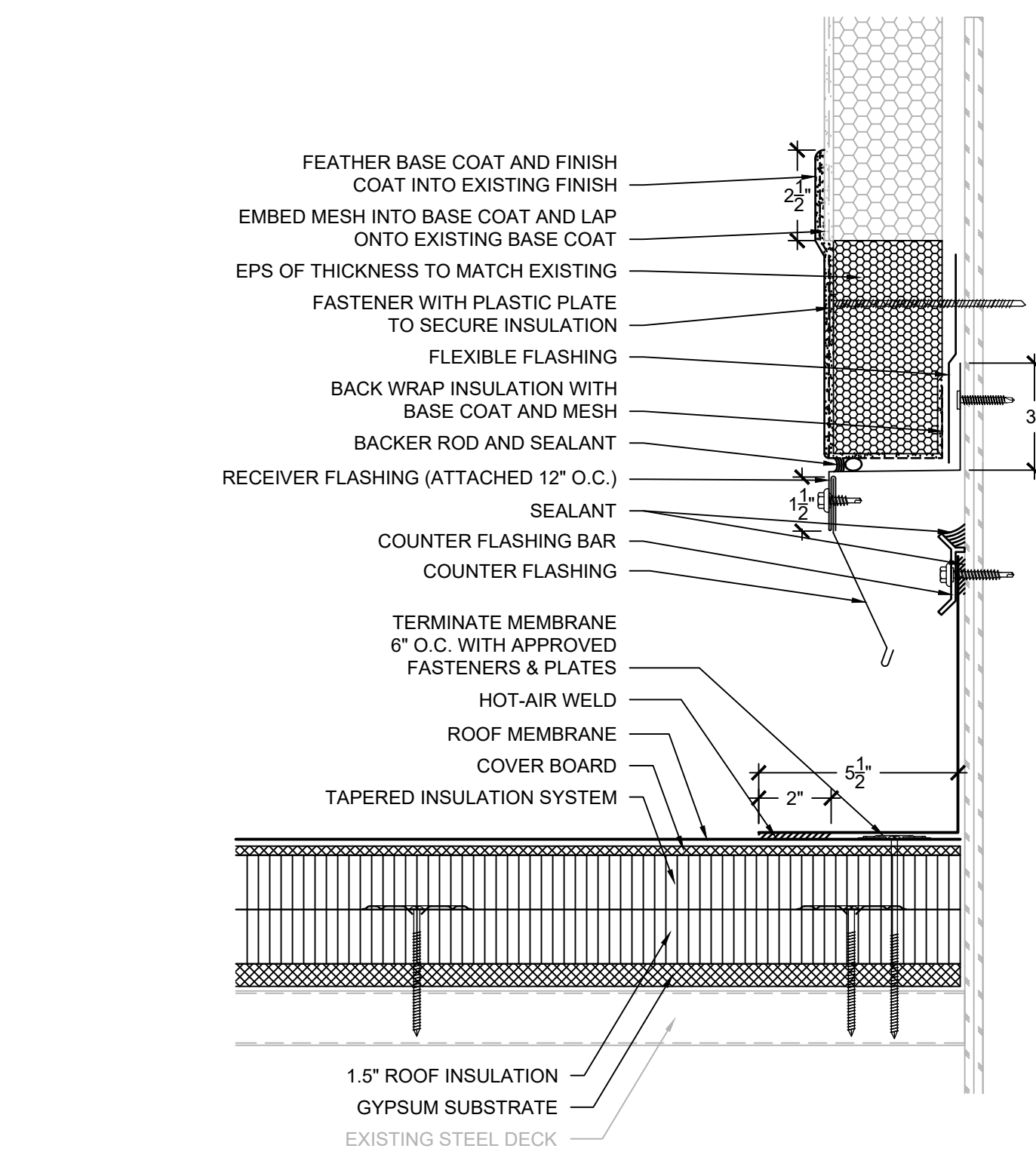
23 METAL EDGE - AREA D

SCALE: 3" = 1'-0"



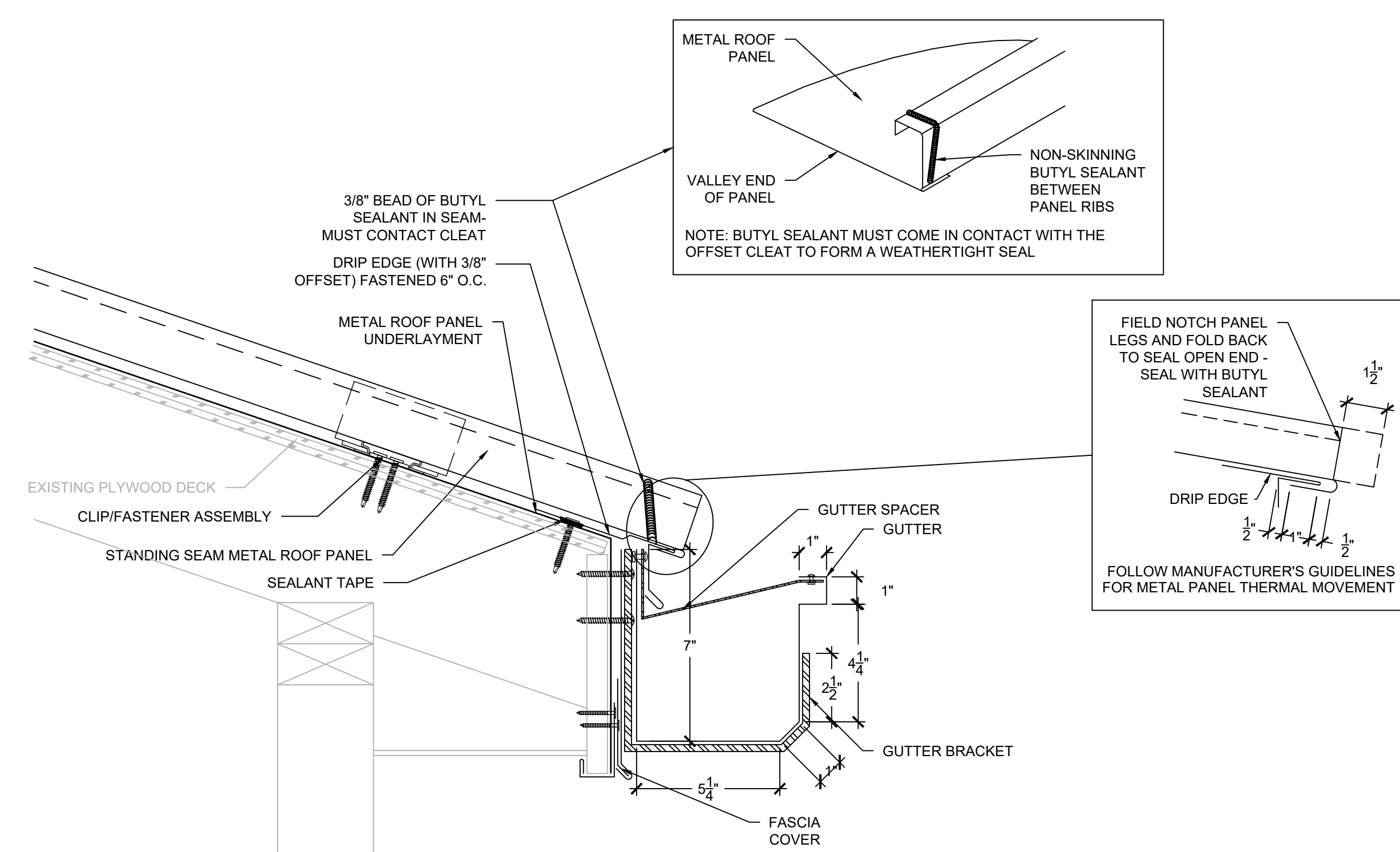
24 ELEVATION WALL FLASHING - AREA D

SCALE: 3" = 1'-0"



25 ELEVATION WALL - AREA D @ EIFS

SCALE: 3" = 1'-0"



26 GUTTER EDGE - AREA F ALTERNATE 3

SCALE: 3" = 1'-0"



ENGINEERS

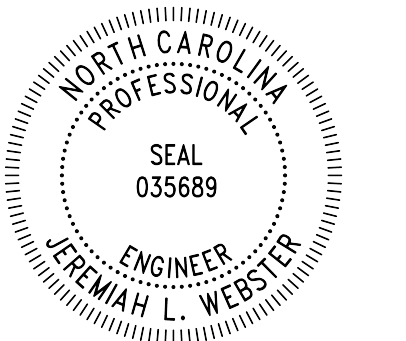
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 2. ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.

PROJECT NAME:

BRUNSWICK COUNTY
BOARD OF
EDUCATION

BELVILLE
ELEMENTARY SCHOOL
ROOF REPLACEMENT

575 RIVER RD. SE
LELAND, NORTH CAROLINA 28451

PROJ. NO:

022CLT-253

ISSUE:

NO.	DATE	DESCRIPTION
CD	10/04/2024	CONTRACT DOCUMENTS

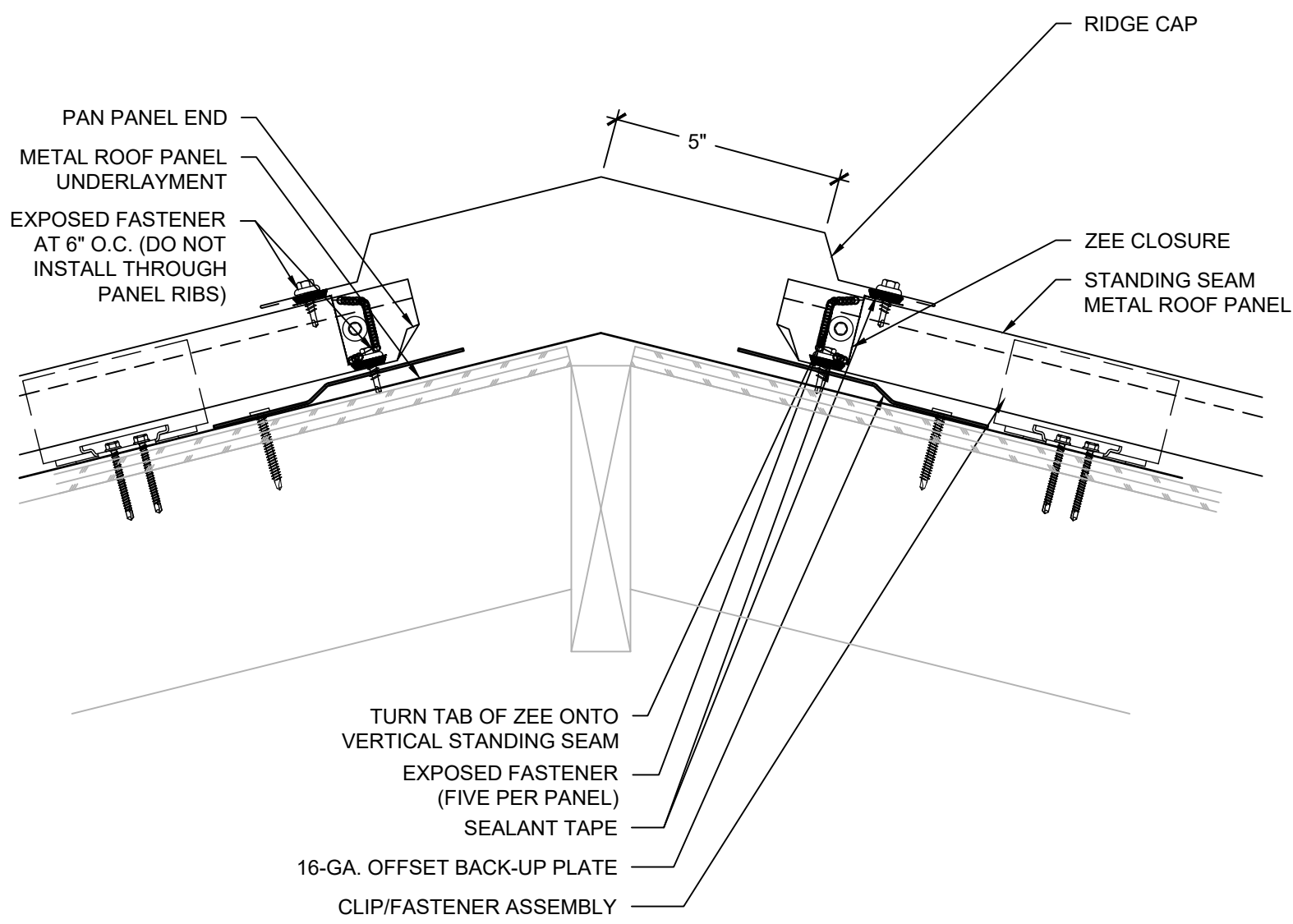
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SHEET TITLE:

DETAILS

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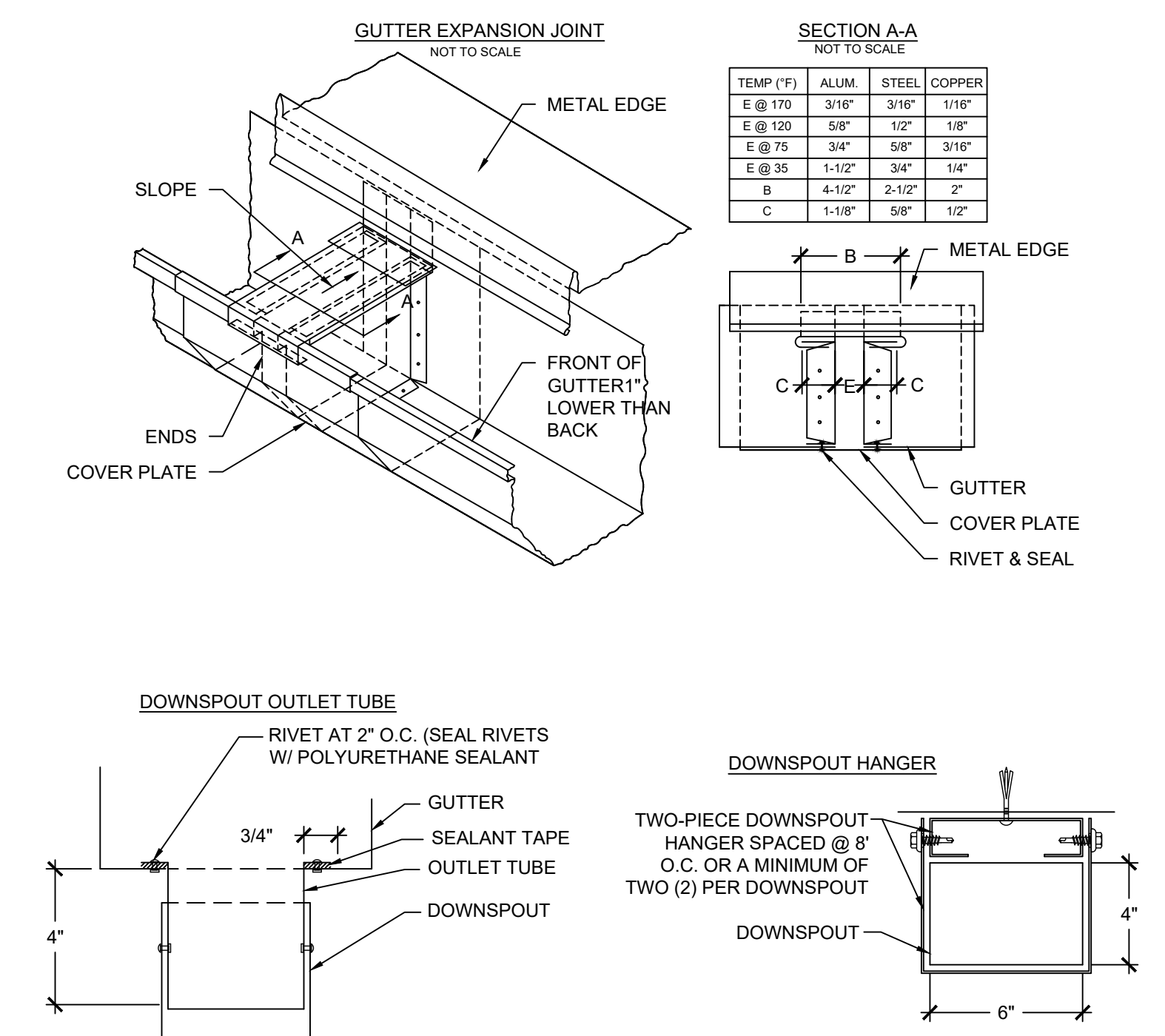
XR503



NOTES:
1. INSULATION AND THERMAL BLOCKS NOT SHOWN FOR CLARIFY. PROVIDE AS SPECIFIED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

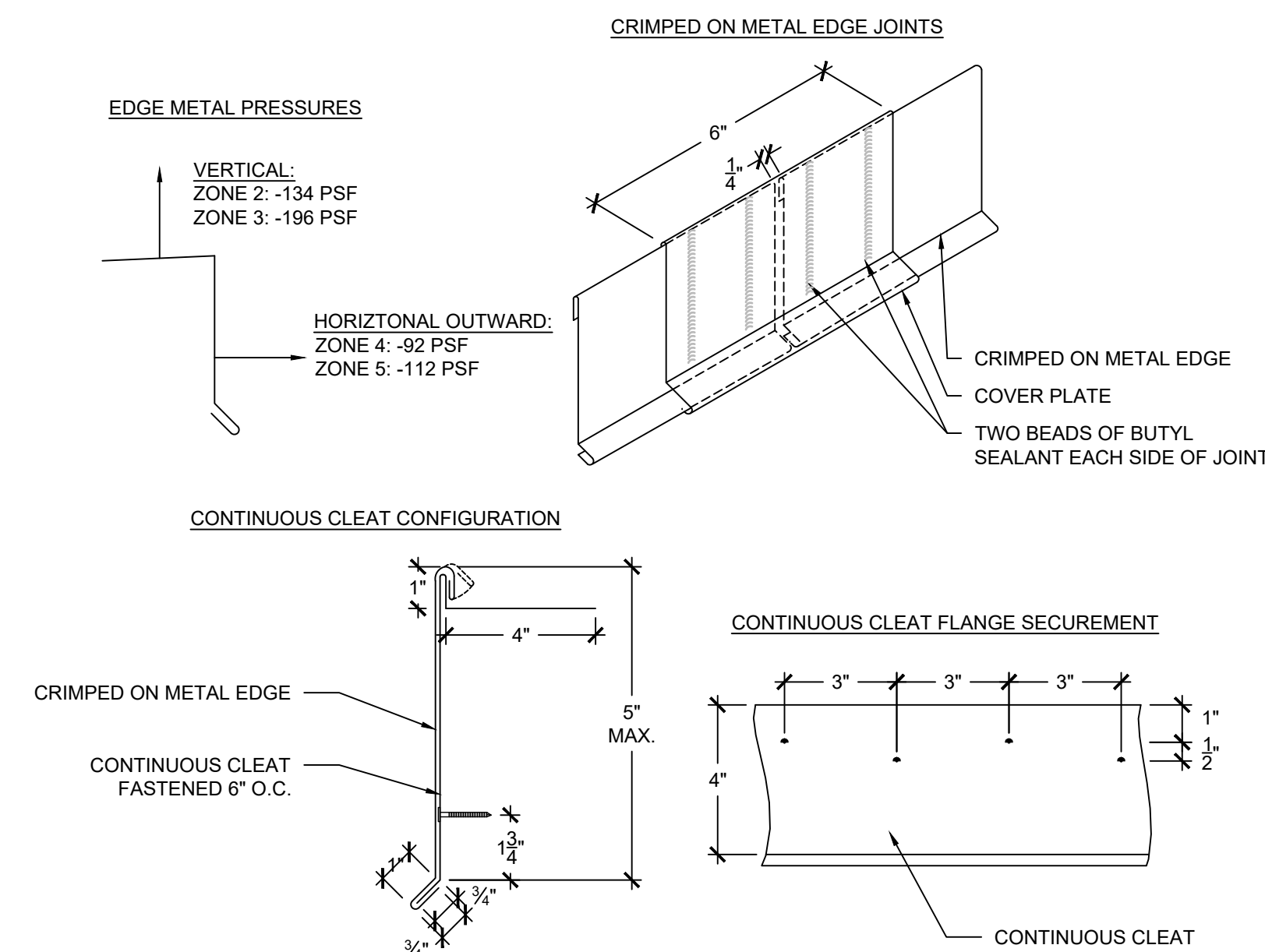
27 RIDGE - AREA F ALTERNATE 3

SCALE: 3" = 1'-0"



30 GUTTER/DOWNSPOUT COMPONENTS

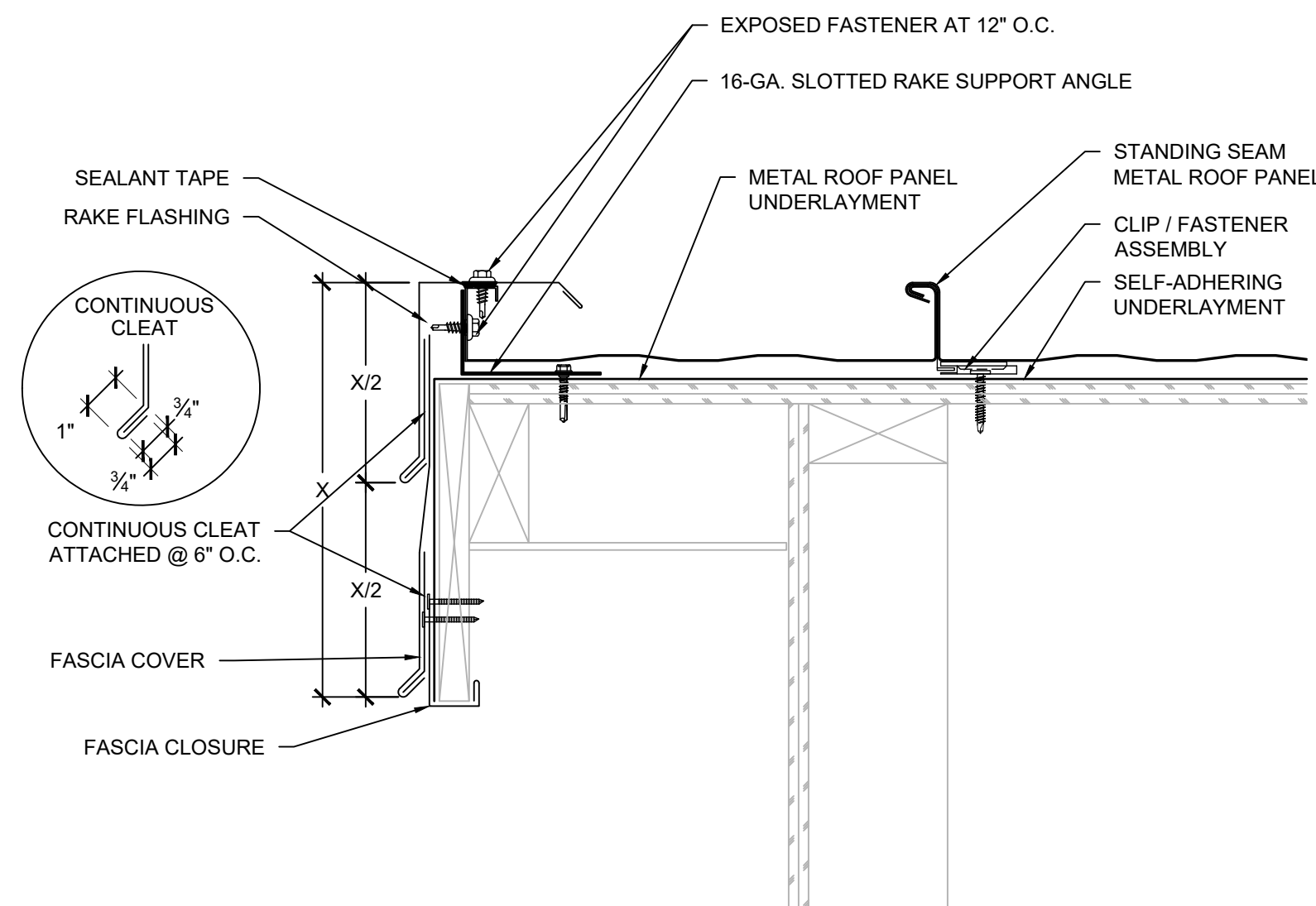
SCALE: 3" = 1'-0"



NOTES:
1. EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND PRESSURES SPECIFIED IN WIND UPLIFT SUMMARY IN ACCORDANCE WITH ANSI/APRI ES-1 TEST METHODS RE-1 AND RE-2.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND PRESSURES.
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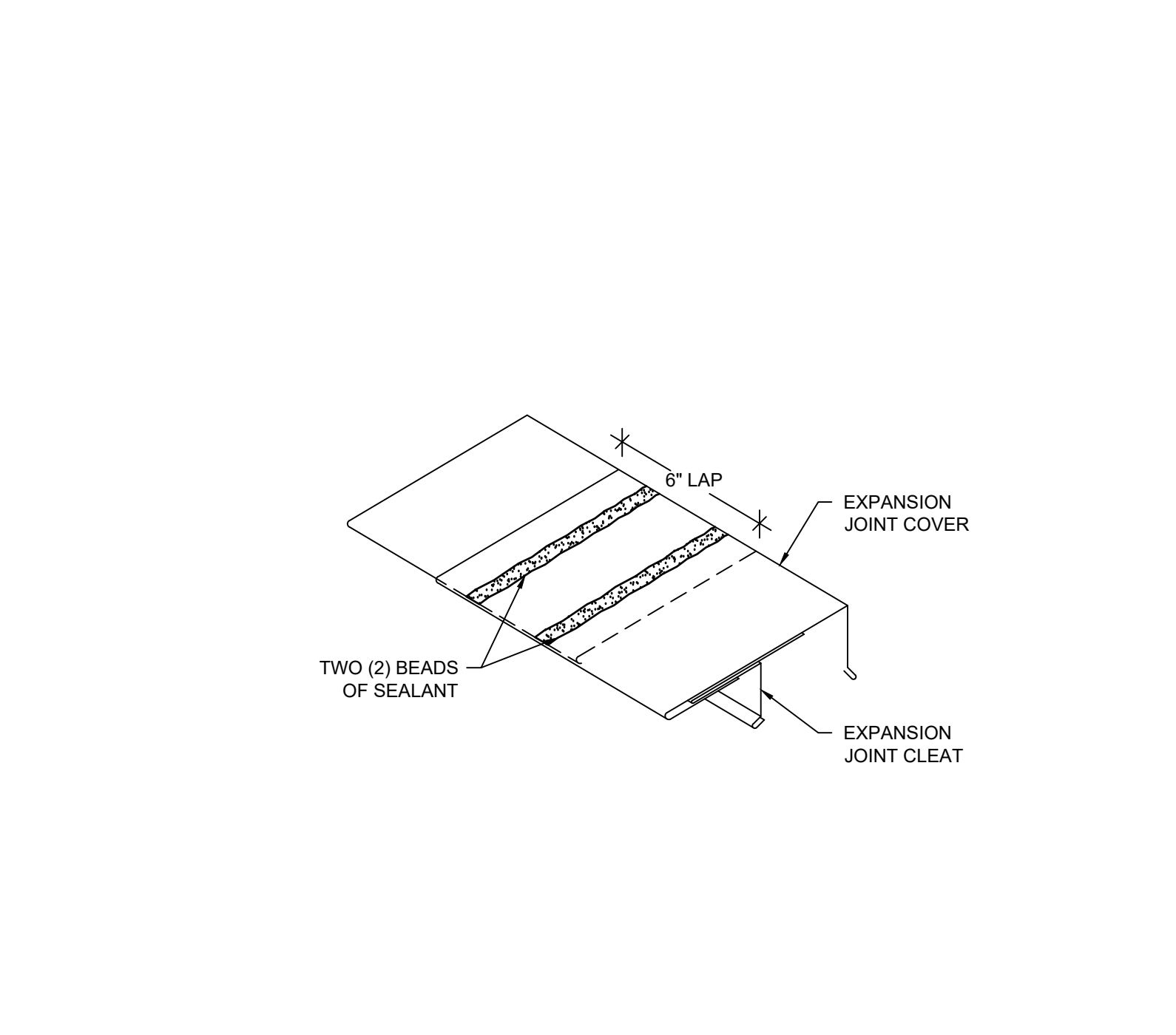
32 CRIMPED ON METAL EDGE COMPONENTS

SCALE: 3" = 1'-0"



28 RAKE EDGE - AREA F ALTERNATE 3

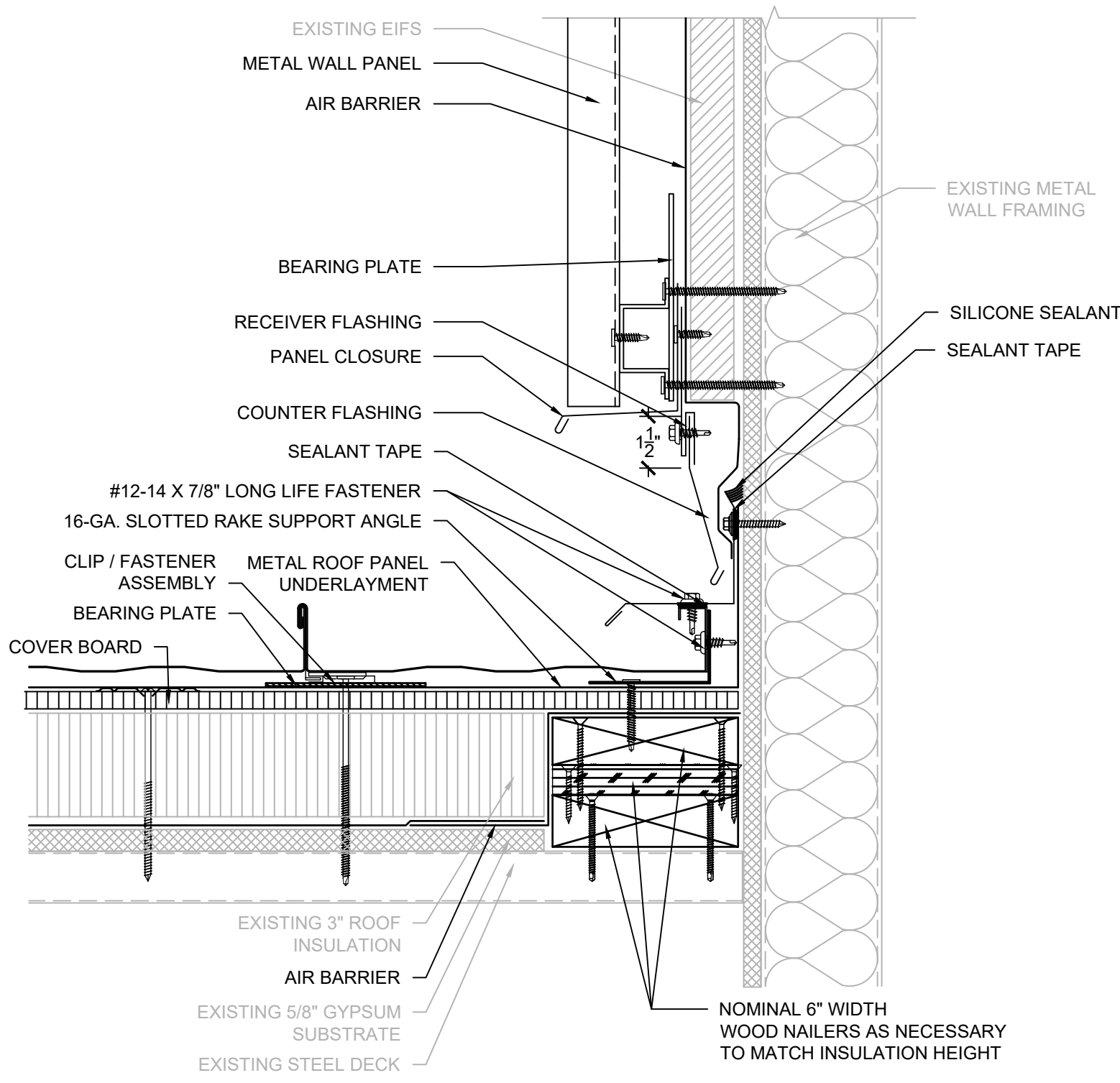
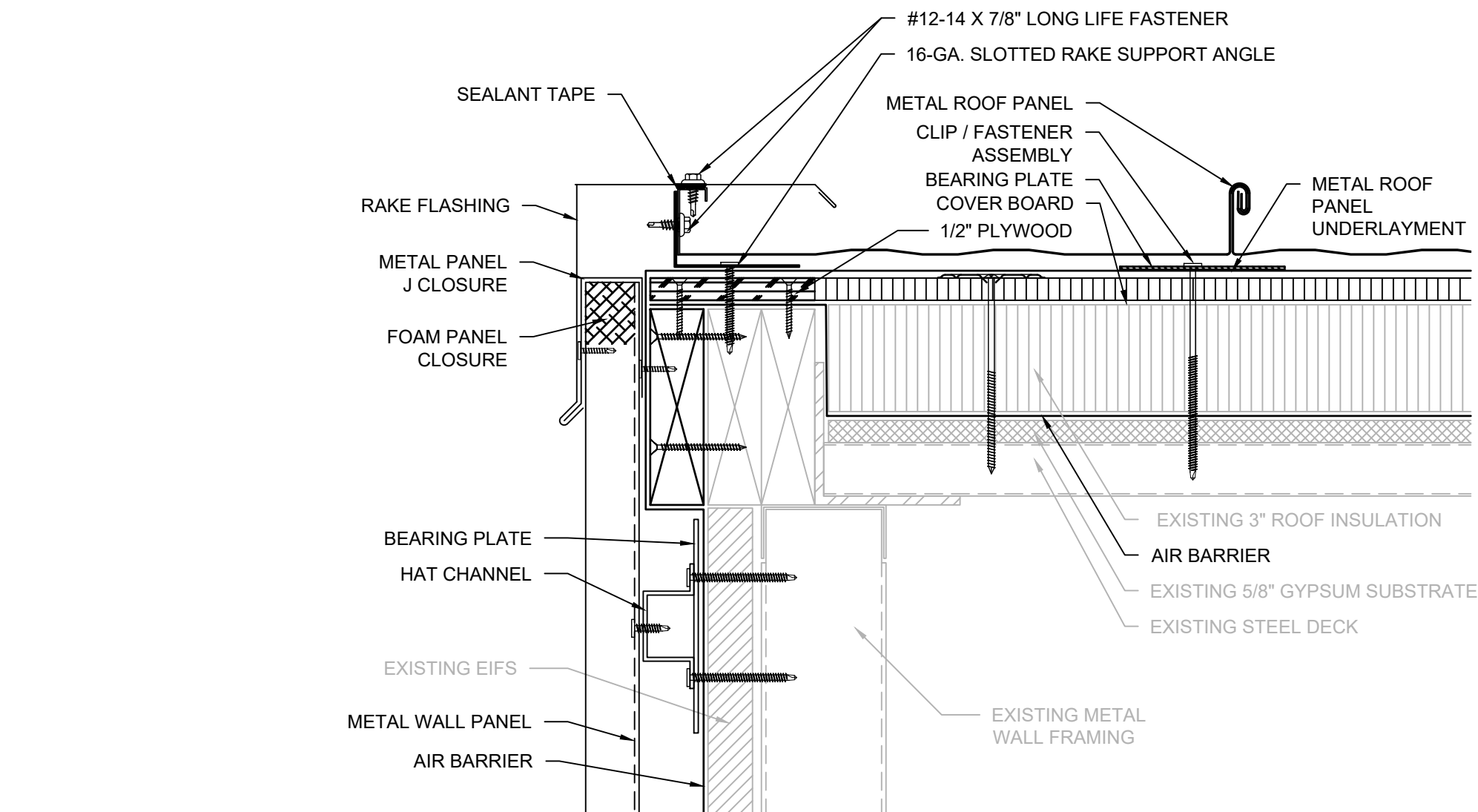
SCALE: 3" = 1'-0"



NOTES:
1. SIX INCH LAP SHOWN SHALL PERTAIN TO COVER & CLEAT.
2. LAPS SHALL BE INSTALLED IN A SHINGLE FASHION w/ ROOF SLOPE.

31 SHEET METAL EXPANSION JOINT SEAMS

SCALE: 3" = 1'-0"



29 METAL WALL PANEL - ALTERNATE 4

SCALE: 3" = 1'-0"



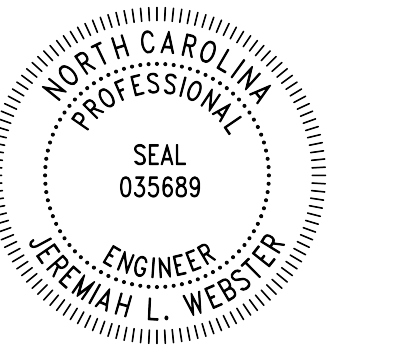
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