

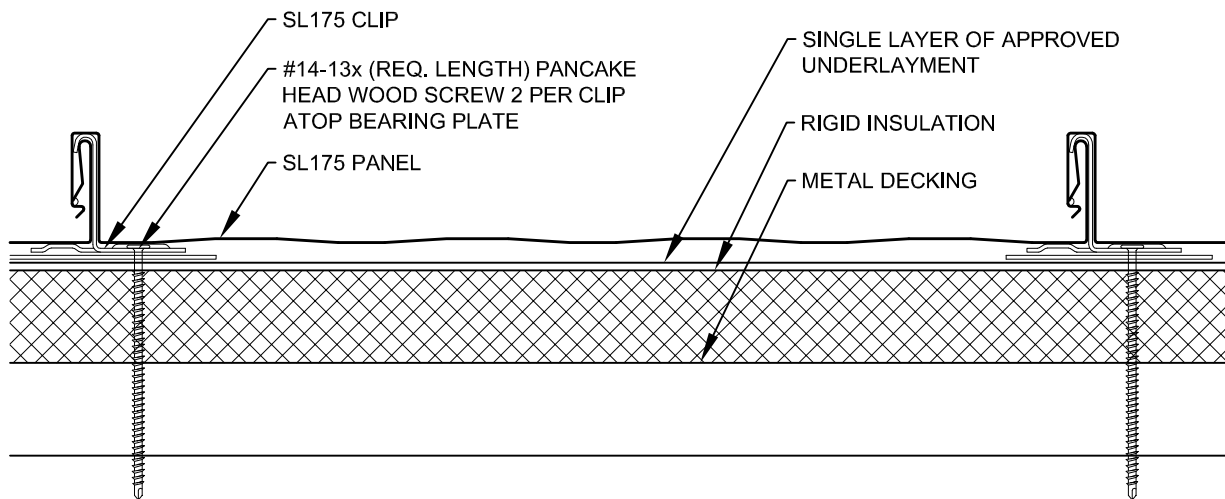


SL175 Standing Seam

Rigid Insulation Over Metal Deck Master Details

Architectural / Solid Substrate / Steep Slope

The following details are commonly used over steep sloped applications including those over solid substrates such as plywood or steel decking with rigid insulation. Such details are largely based on hydrokinetic (water shedding) design principles and architectural detailing.



FAYETTEVILLE, NC
888-685-7663

SPENCER, NC
800-526-8156

ANDERSON, SC
800-544-5169

TIFTON, GA
800-962-9131

ORANGE, VA
800-762-6785

OCALA, FL
800-331-3584

VICKSBURG, MS
888-661-0577

TIPP CITY, OH
877-615-9812

OKLAHOMA CITY, OK
866-373-5286

SCRANTON, PA
866-695-6455

www.unionmetalroofing.com



SL175 Standing Seam

-Rigid Insulation Over Metal Deck-

Index

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(Continued...)



SL175 Standing Seam -Rigid Insulation Over Metal Deck-

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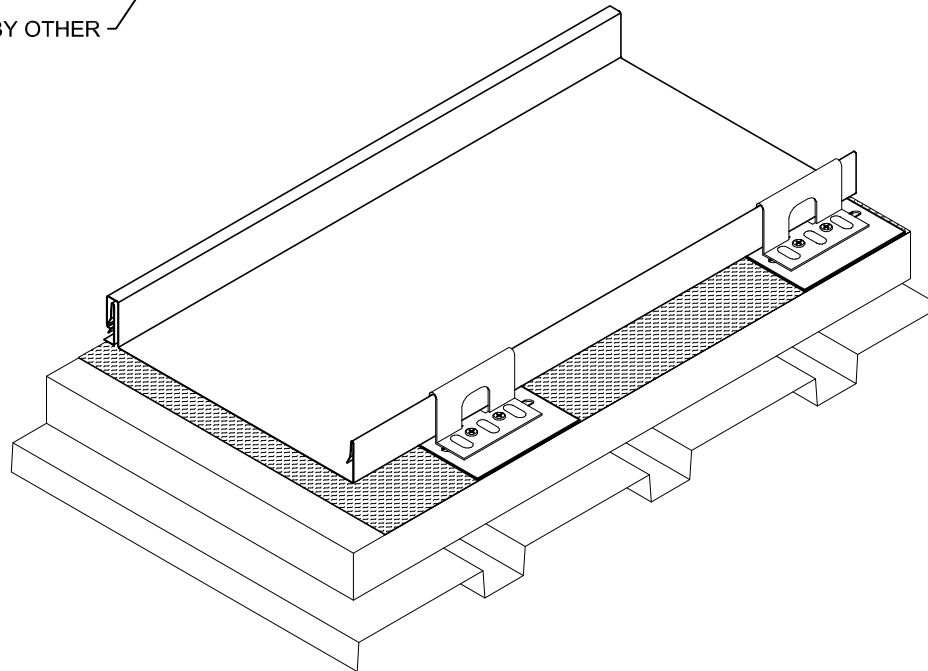
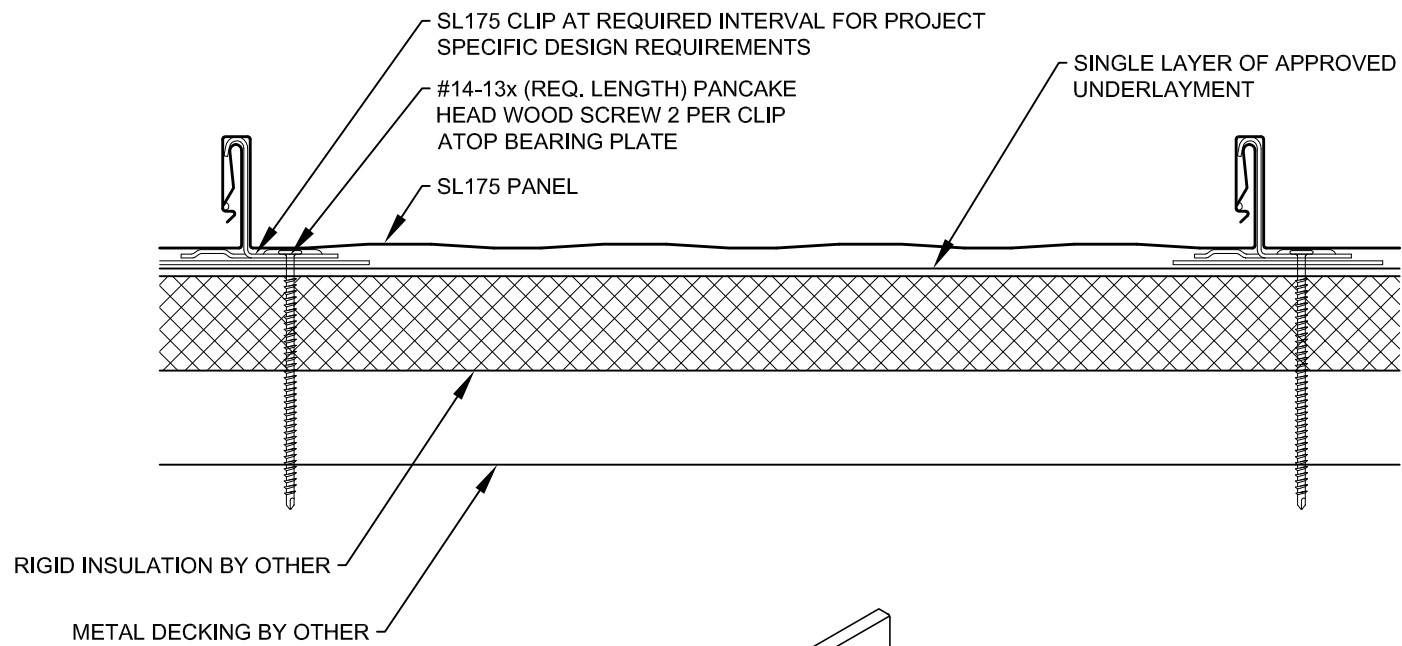
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Description:

SL175 APPLICATION

Detail No.:

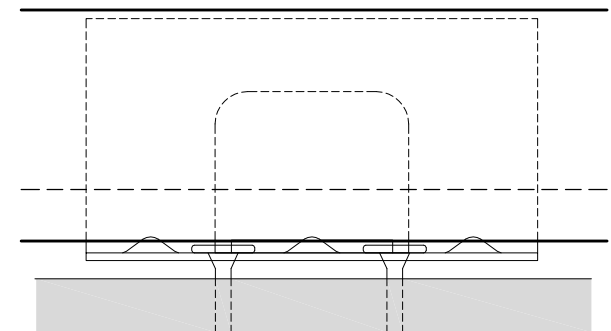
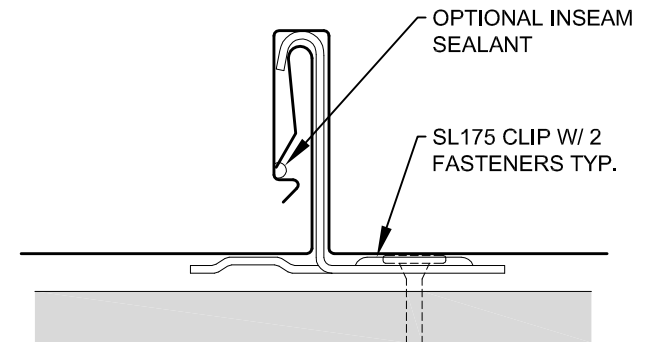
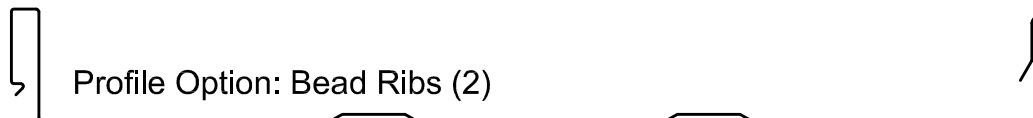
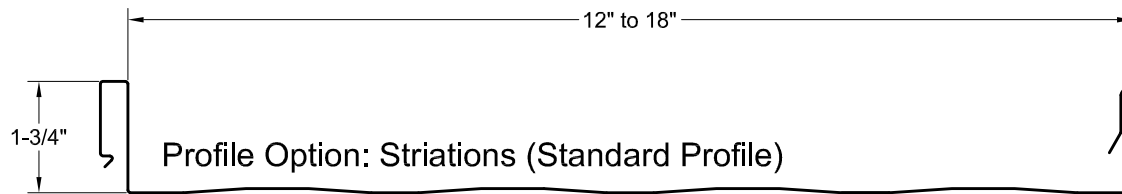
SL175-MD-0.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

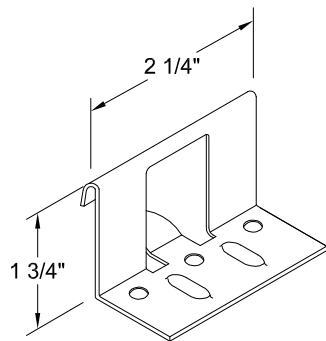


Description: **SL175 SYSTEM OVERVIEW - PANEL PROFILES**

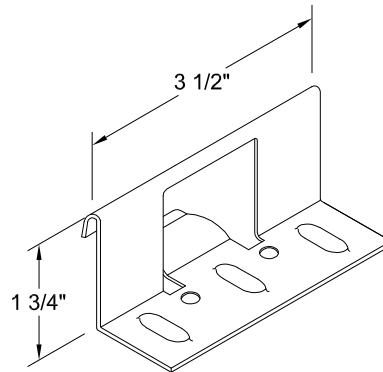
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Substrate:

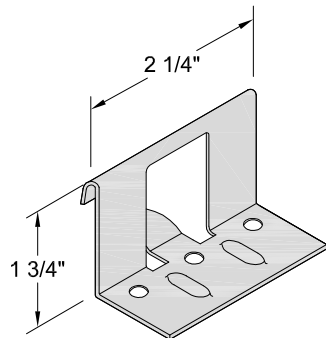
Project Name:
Location:



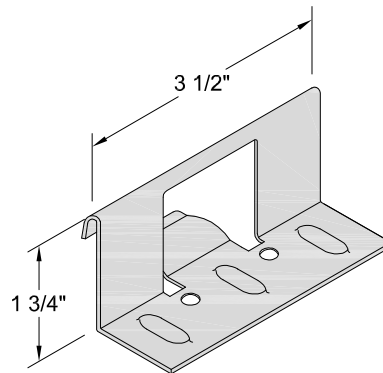
Clip 20
18 Ga. Galvanized
1.875" x 2.25"



Clip 21 UL
18 Ga. Galvanized
1.875" x 3.5"



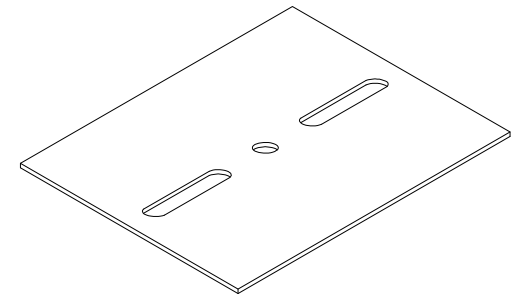
Clip 22
18 Ga. Stainless Steel
1.875" x 2.25"
Recommended for use with aluminum panels



Clip 23 UL
18 Ga. Stainless Steel
1.875" x 3.5"
Recommended for use with aluminum panels

IMPORTANT INSTALLATION NOTE

- SL175 CLIPS ALLOW FOR UNLIMITED THERMAL EXPANSION/CONTRACTION OF PANELS.
- "UL" CLIP TYPES MAY BE REQUIRED TO MEET SPECIFIC WIND UPLIFT TESTING.



4" x 5" Bearing Plate
16 Ga. Galvanized
Required for use when clips are applied directly over rigid board insulation



Description:

SL175 SYSTEM OVERVIEW - CLIPS

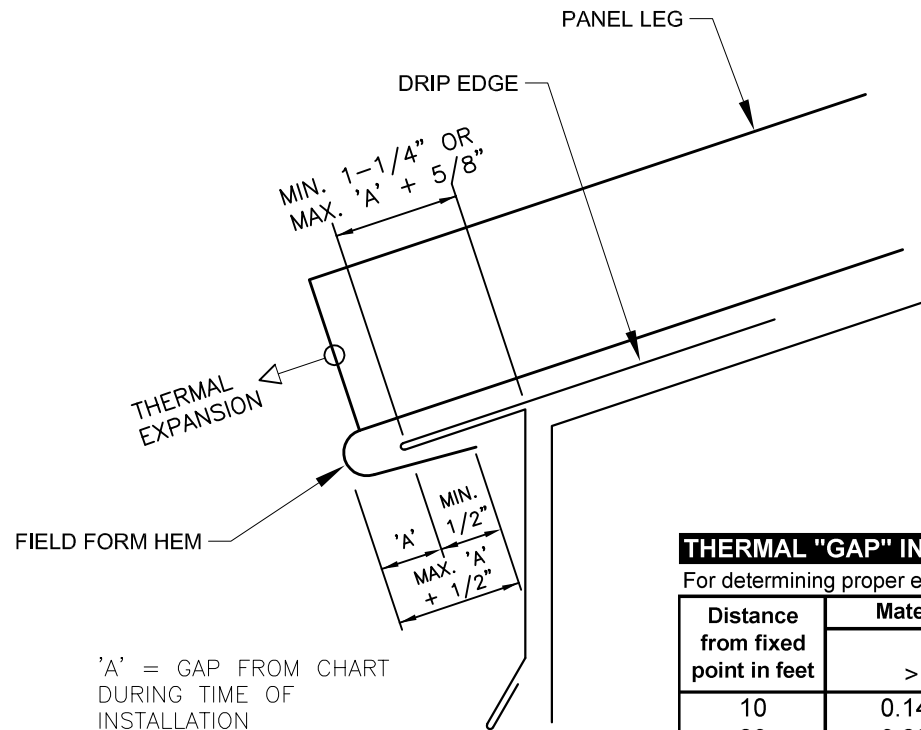
Detail No.:

SL175-0.21

Substrate:

Project Name:

Location:



THERMAL "GAP" INSTALLATION CHART (In inches) - STEEL

For determining proper expansion/contraction gap at panel ends during installation

Distance from fixed point in feet	Material Temperature (Surface Temperature) During Installation					
	Hot >100° F		Warm 100° to 50° F		Cold <50° F	
10	0.145	1/8	0.072	1/16	0.000	0
20	0.289	5/16	0.145	1/8	0.000	0
30	0.434	7/16	0.217	3/16	0.125	1/8
40	0.579	9/16	0.289	5/16	0.125	1/8
50	0.724	3/4	0.362	3/8	0.188	3/16
60	0.868	7/8	0.434	7/16	0.188	3/16
70	1.013	1	0.507	1/2	0.250	1/4
80	1.158	1 3/16	0.579	9/16	0.250	1/4
90	1.302	1 5/16	0.651	5/8	0.375	3/8
100	1.447	1 7/16	0.724	3/4	0.375	3/8

* Chart based on temperature differential of: 180 degrees F

* Coefficient of thermal expansion for steel: 0.0000067



Description:

THERMAL GAP INSTALLATION CHART - STEEL

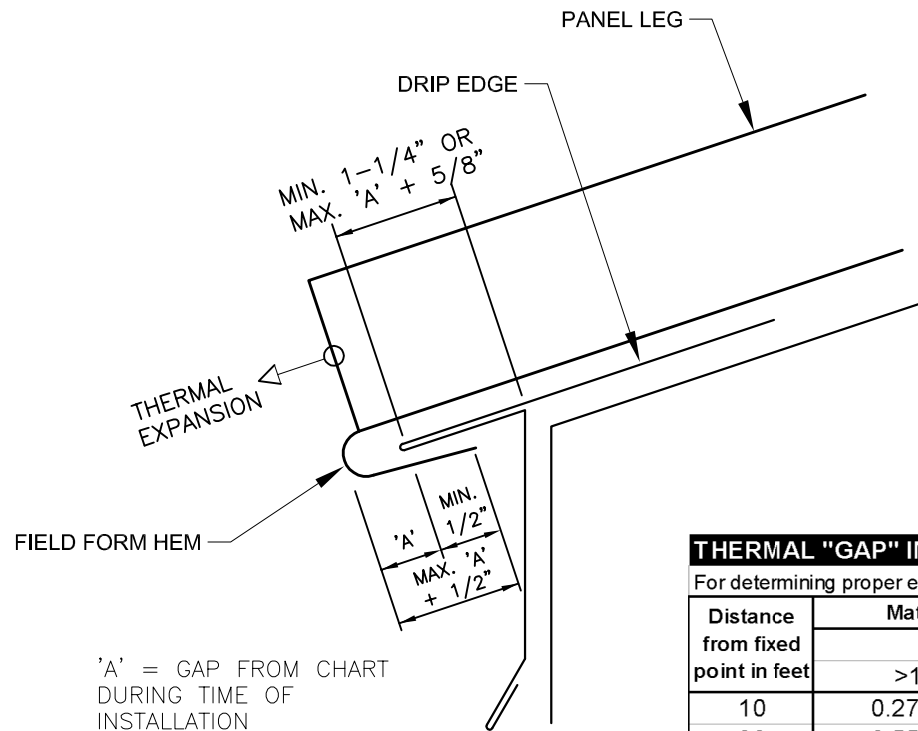
Detail No.:

SL175-0.30

Substrate:

Project Name:

Location:



THERMAL "GAP" INSTALLATION CHART (In inches) - ALUMINUM

For determining proper expansion/contraction gap at panel ends during installation

Distance from fixed point in feet	Material Temperature (Surface Temperature) During Installation					
	Hot		Warm		Cold	
	>100° F		100° to 50° F		<50° F	
10	0.279	1/4	0.139	1/8	0.000	0
20	0.557	9/16	0.279	1/4	0.000	0
30	0.836	13/16	0.418	7/13	0.125	1/8
40	1.115	1 1/8	0.557	9/13	0.125	1/8
50	1.393	1 3/8	0.697	11/13	0.188	3/16
60	1.672	1 11/16	0.836	13/13	0.188	3/16
70	1.950	1 15/16	0.975	1	0.250	1/4
80	2.229	2 1/4	1.115	1 1/8	0.250	1/4
90	2.508	2 1/2	1.254	1 1/4	0.375	3/8
100	2.786	2 13/16	1.393	1 3/8	0.375	3/8

* Chart based on temperature differential of: 180 degrees F

* Coefficient of thermal expansion for alum.: 0.0000129



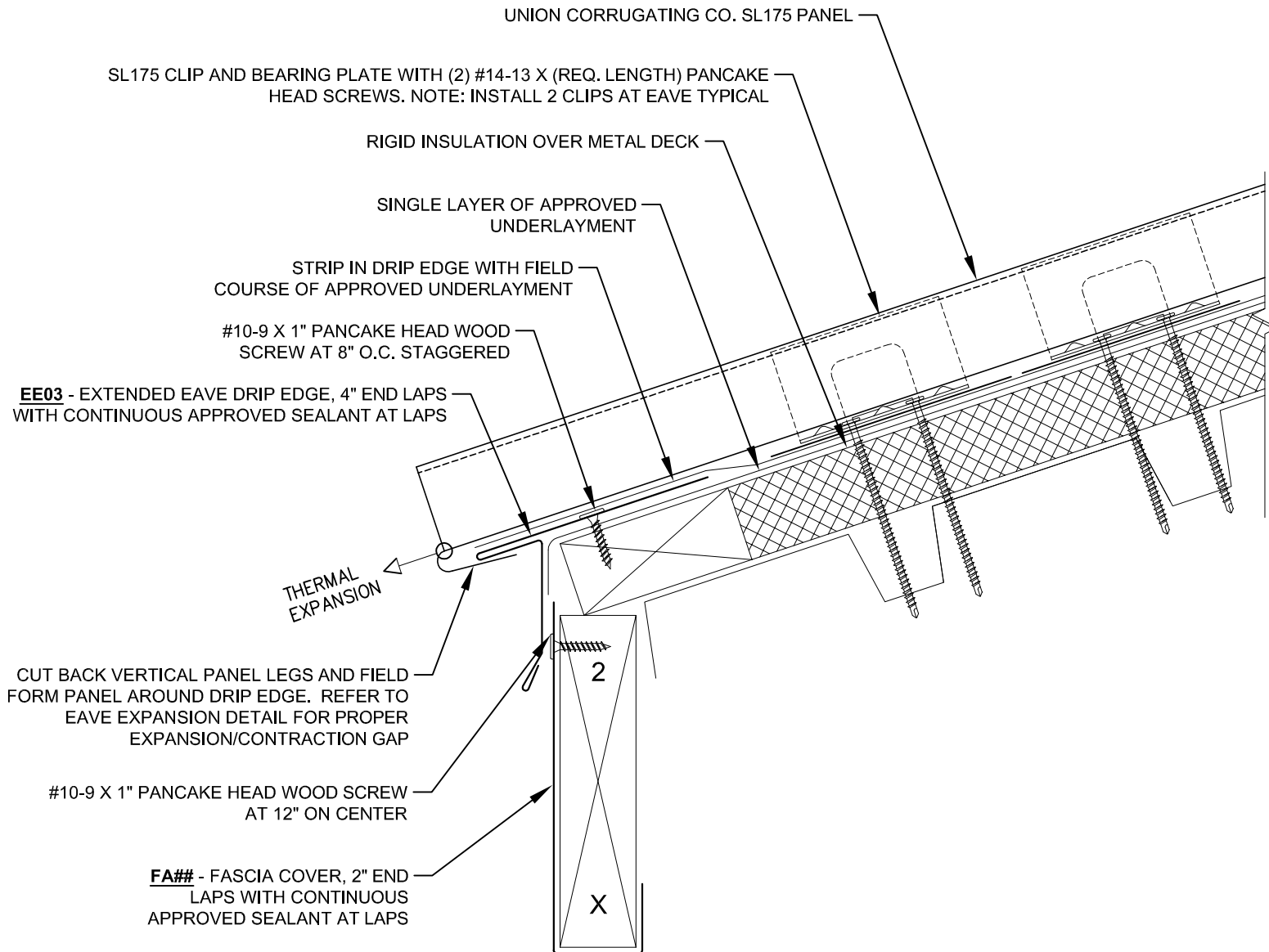
Description: **THERMAL GAP INSTALLATION CHART - ALUMINUM**

Detail No.: **SL175-0.31**

Substrate:

Project Name:

Location:



Description:

EXTENDED EAVE

Detail No.:

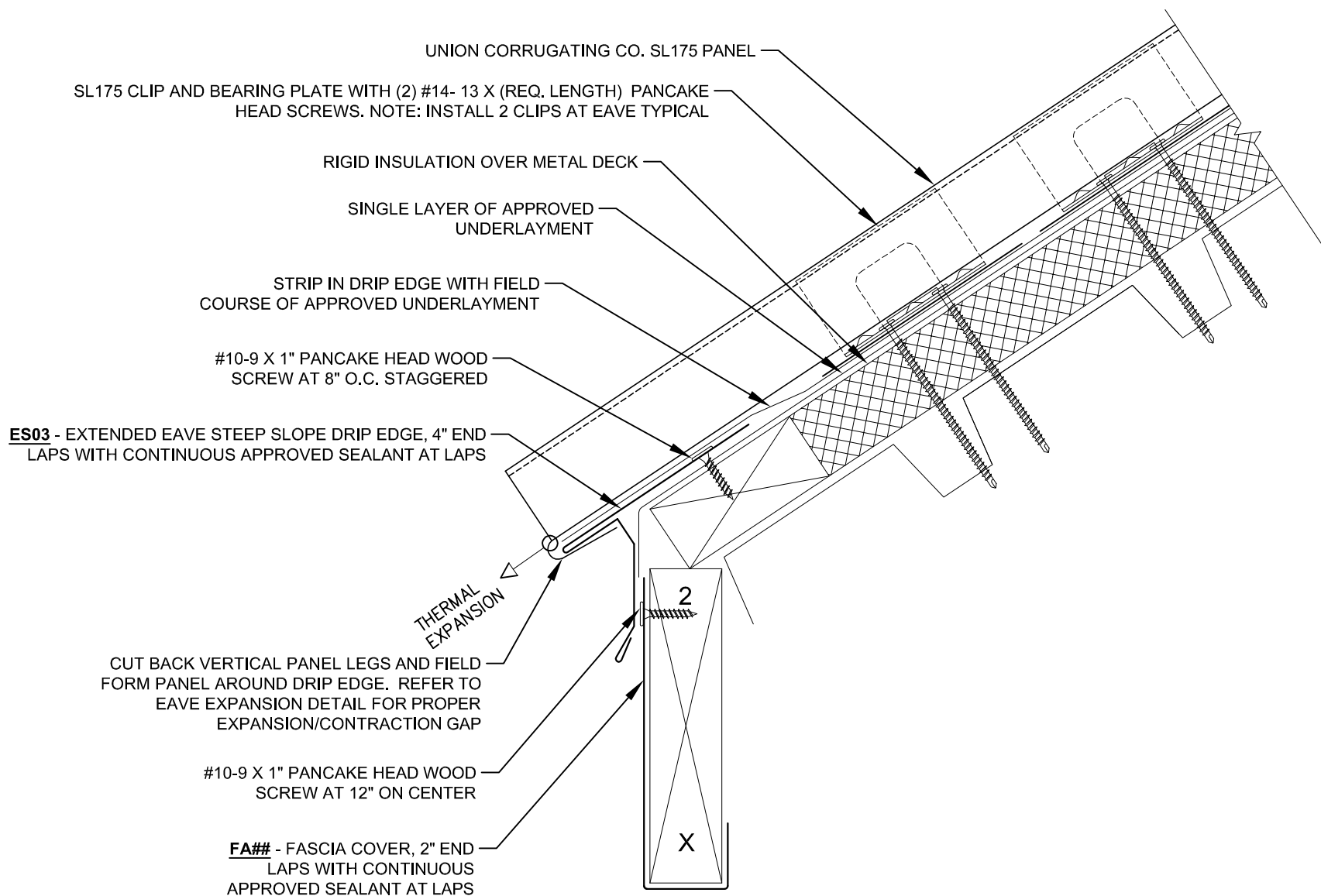
SL175-MD-1.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE - STEEP SLOPE

Detail No.:

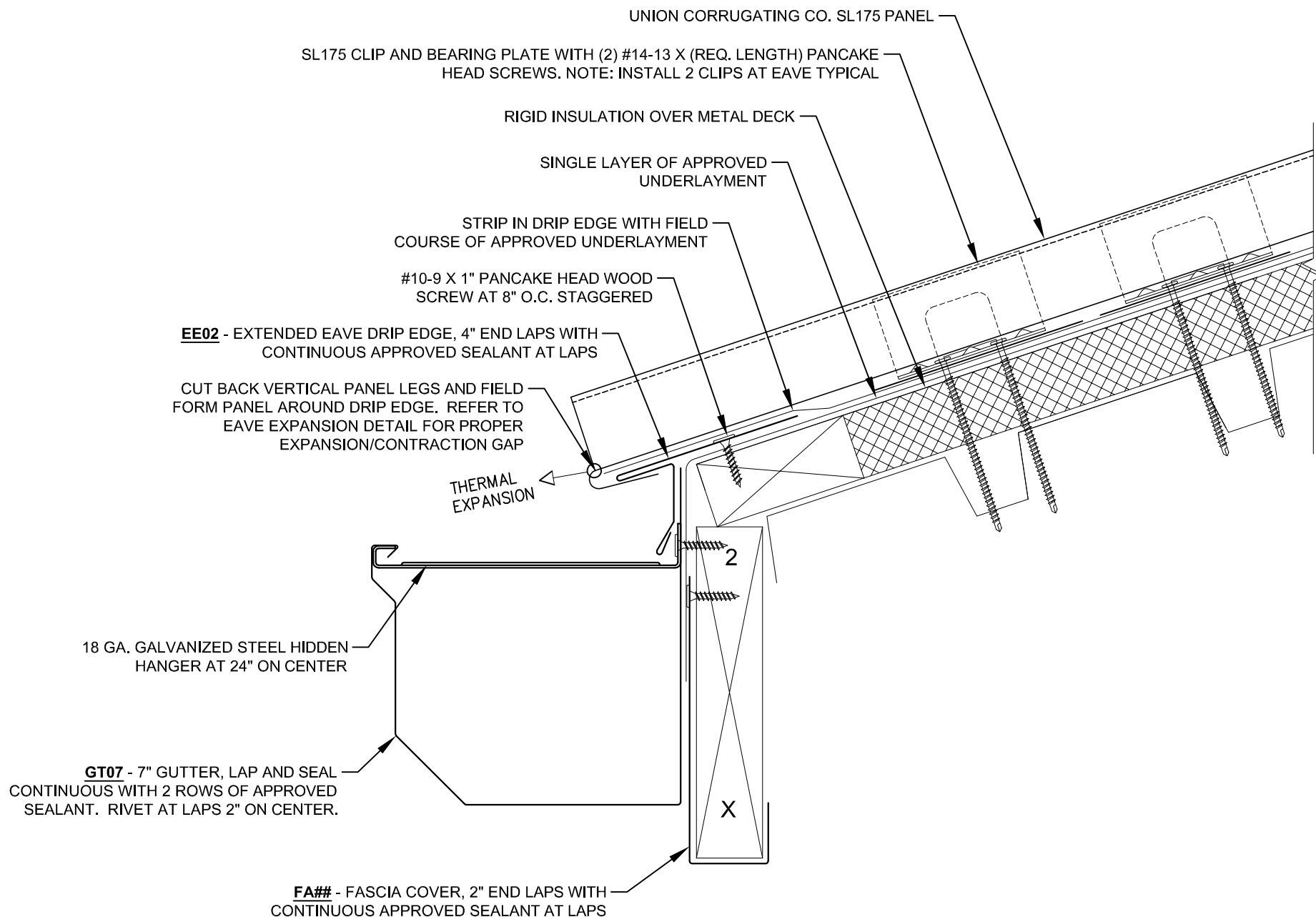
SL175-MD-1.10A

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE WITH GUTTER

Detail No.:

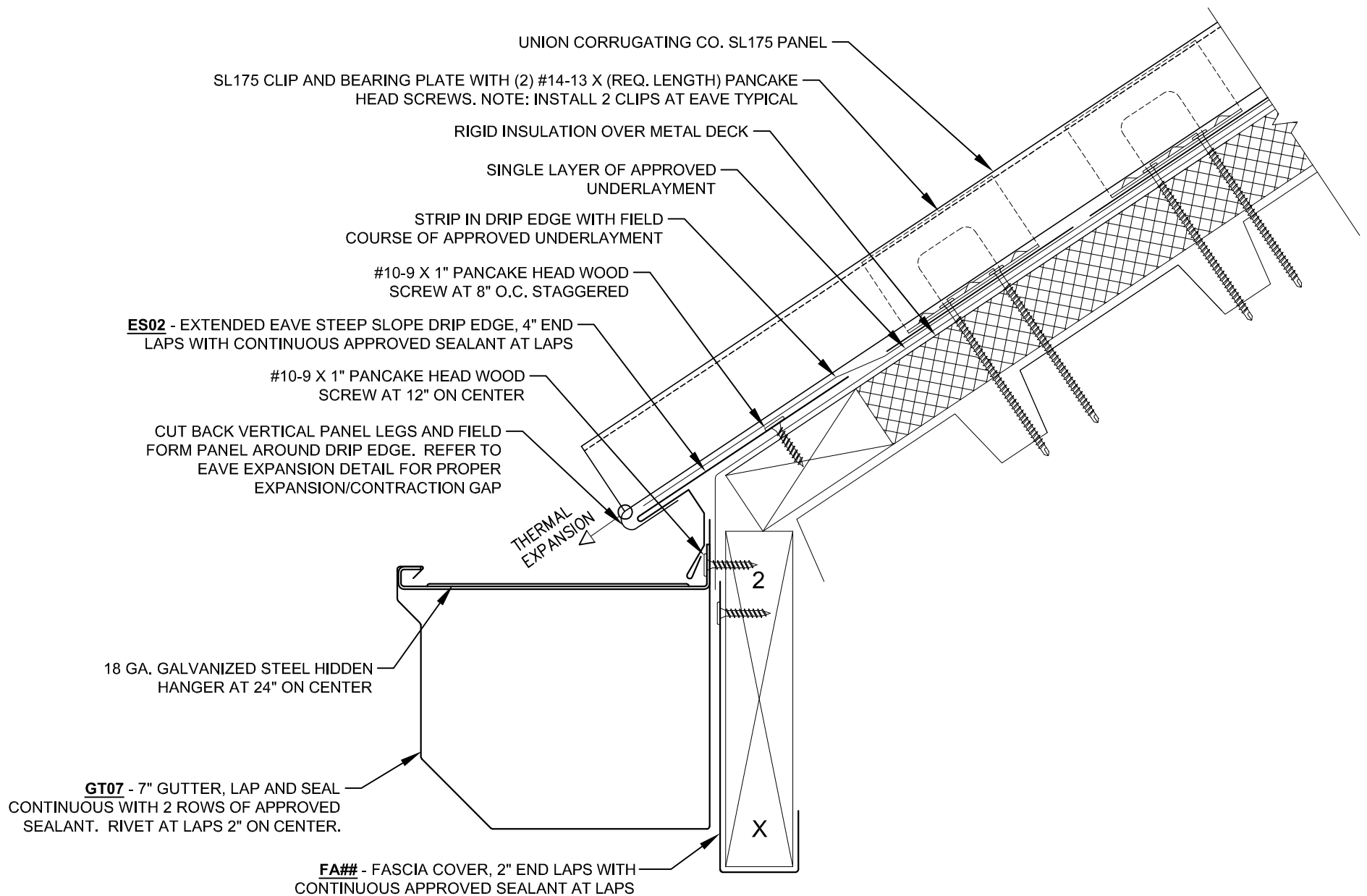
SL175-MD-1.20

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE W/ GUTTER- STEEP SLOPE

Substrate:

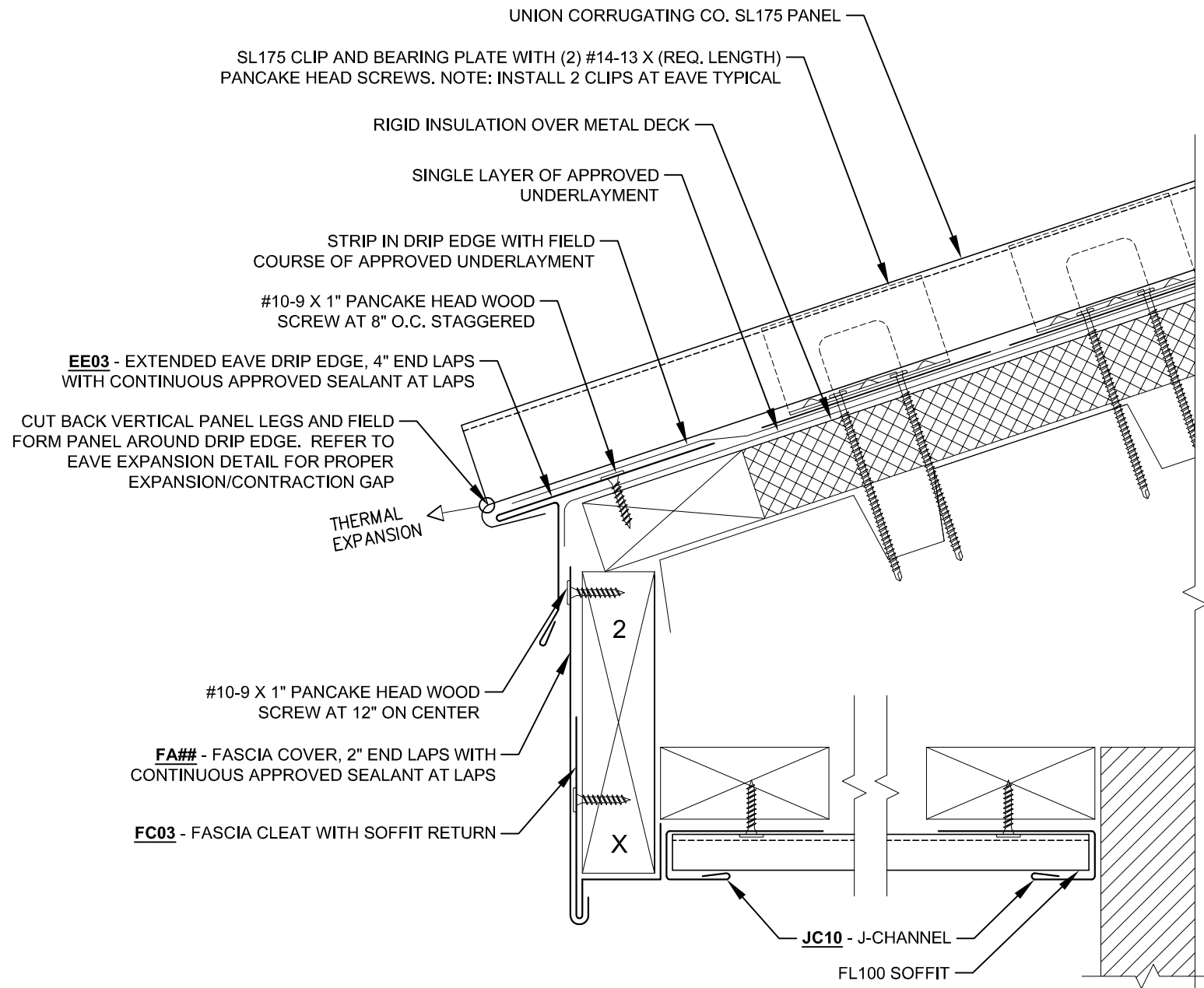
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL175-MD-1.20A



Description:

EXTENDED EAVE WITH SOFFIT

Detail No.:

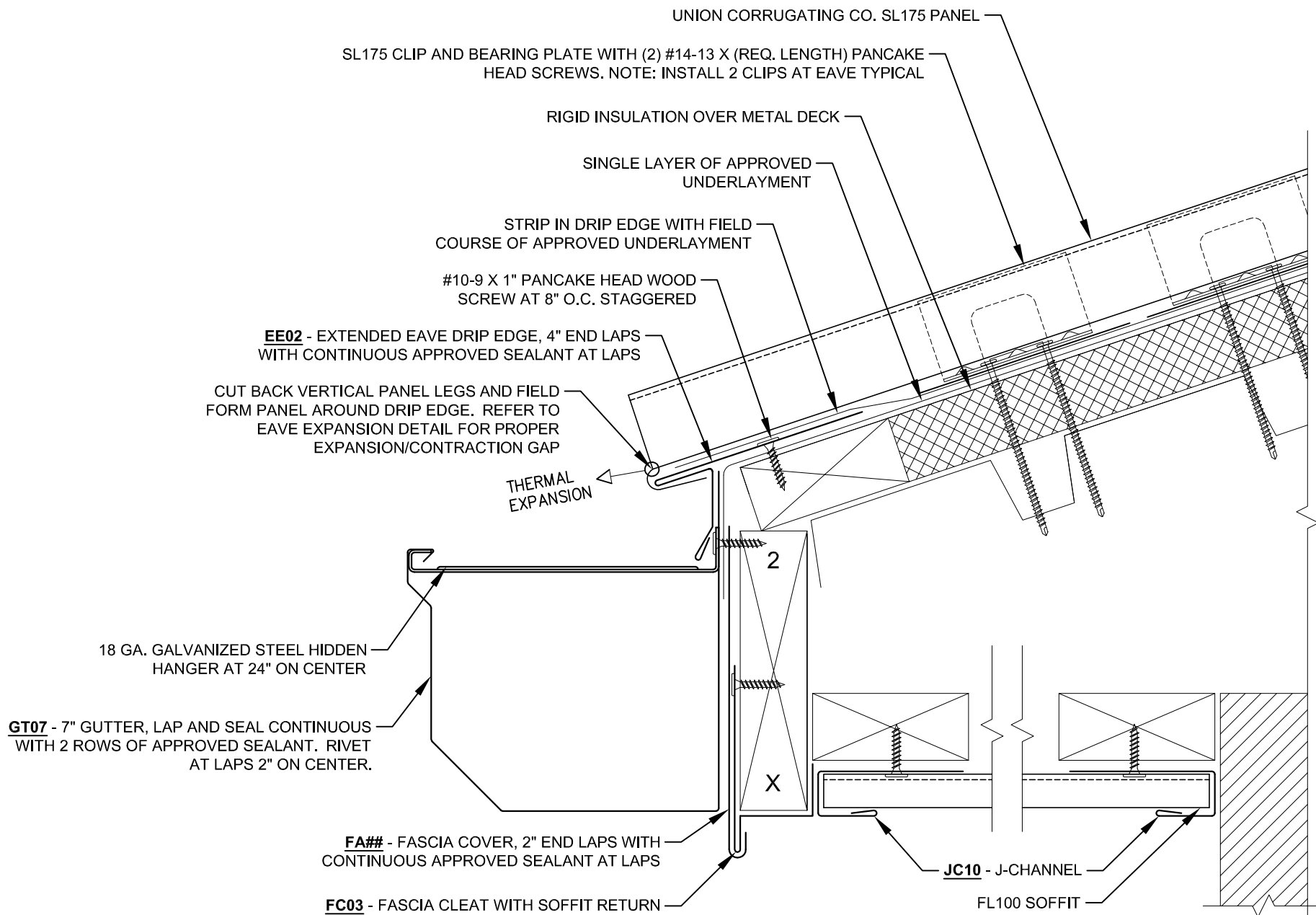
SL175-MD-1.30

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE WITH SOFFIT & GUTTER

Detail No.:

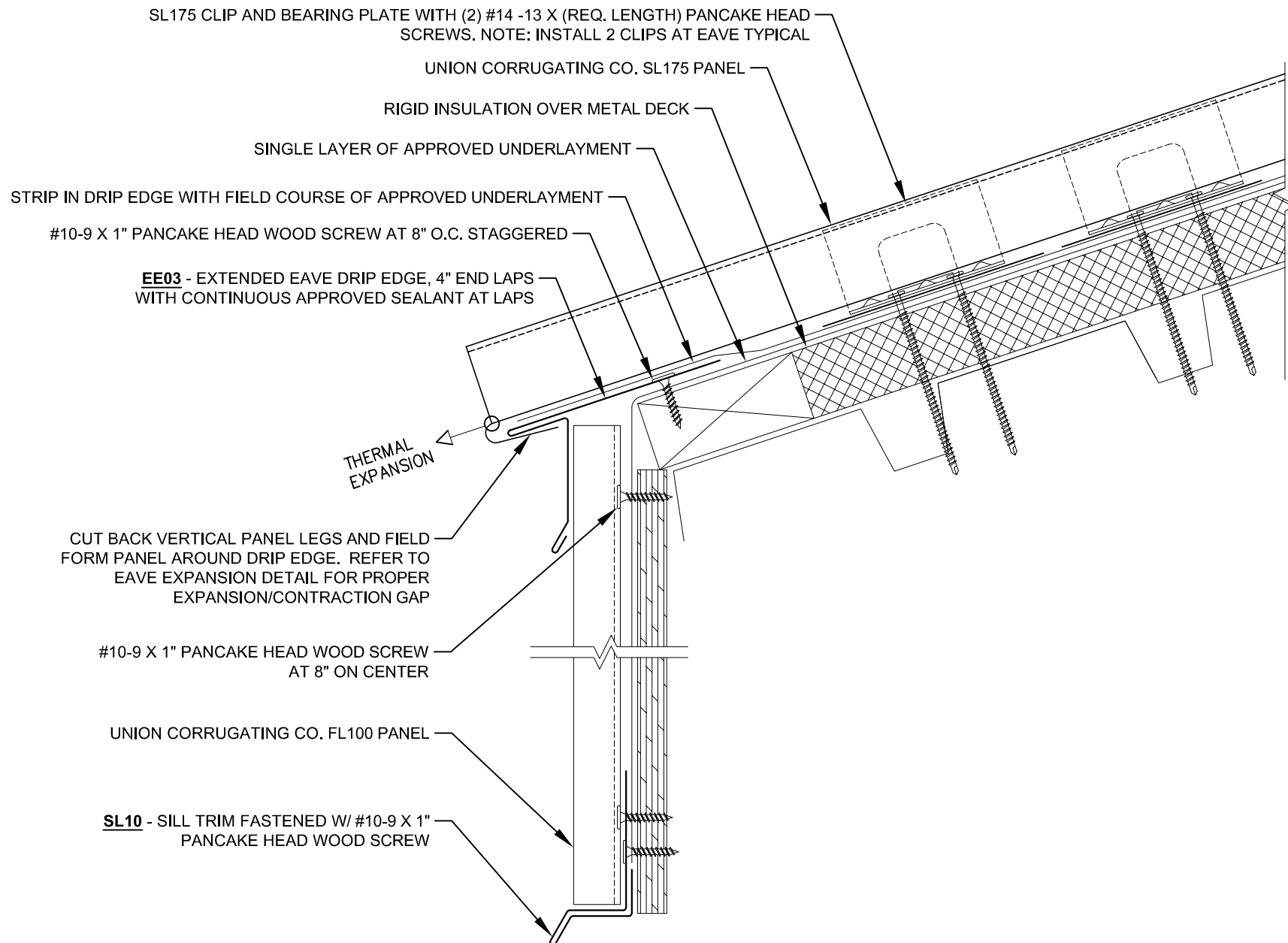
SL175-MD-1.40

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE W/ VERTICAL FLUSH PANEL

Detail No.:

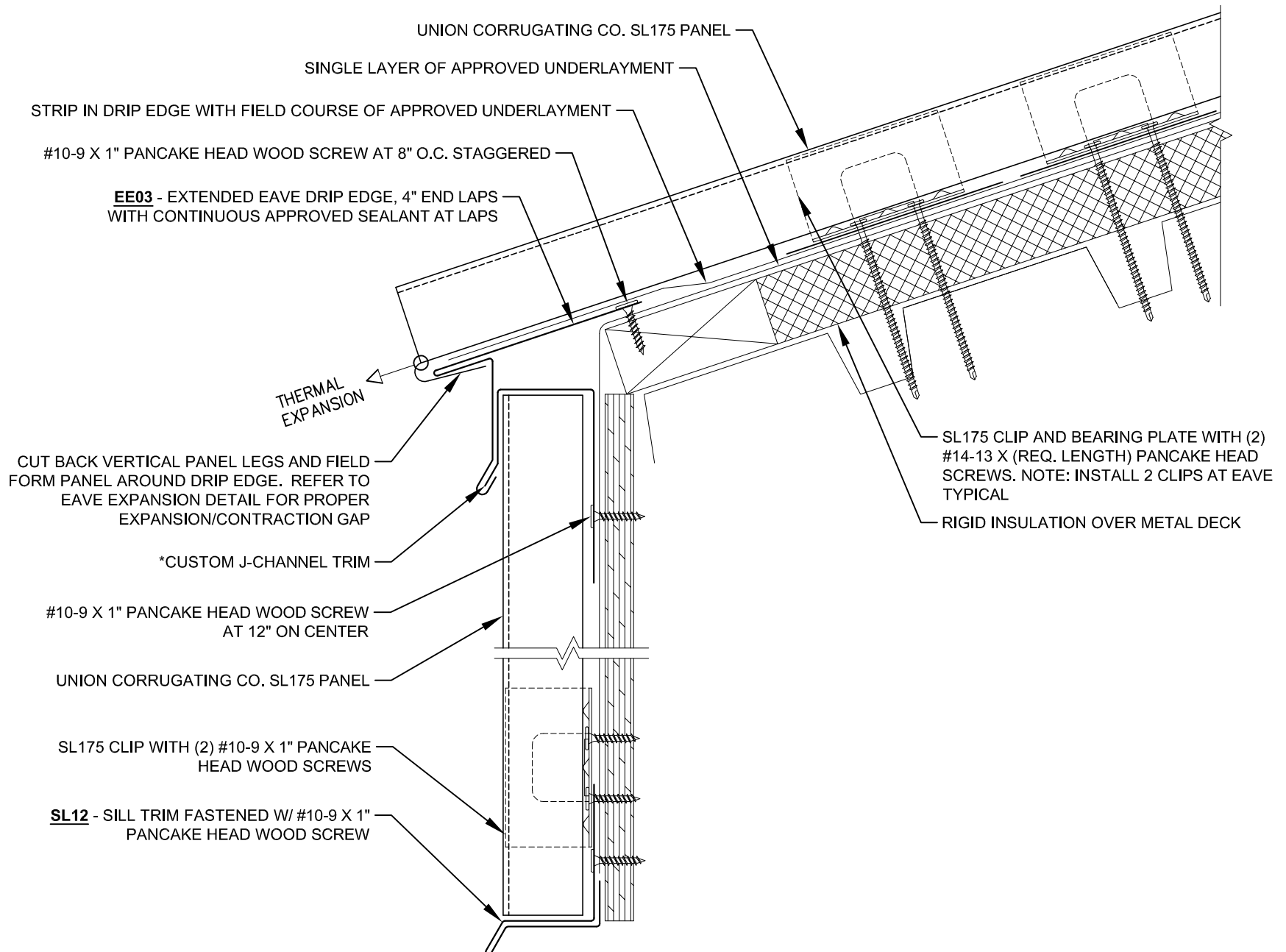
SL175-MD-1.50

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

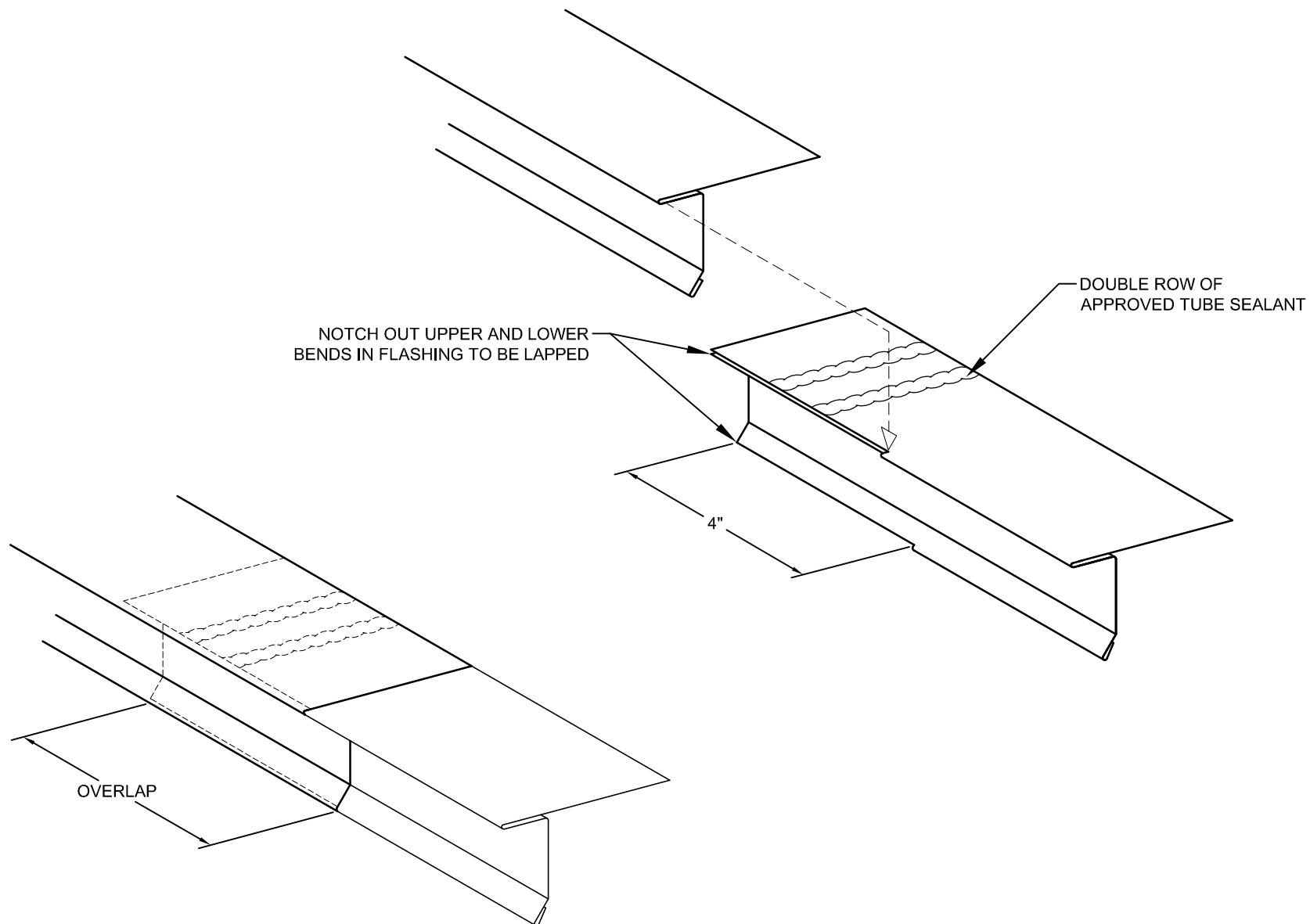


Description: **EXT. EAVE W/ VERTICAL STANDING SEAM PANELS**

Detail No.: **SL175-MD-1.60**

Substrate: **RIGID INSULATION OVER METAL DECK**

Project Name:
Location:



Description:

DRIP EDGE LAP DETAIL

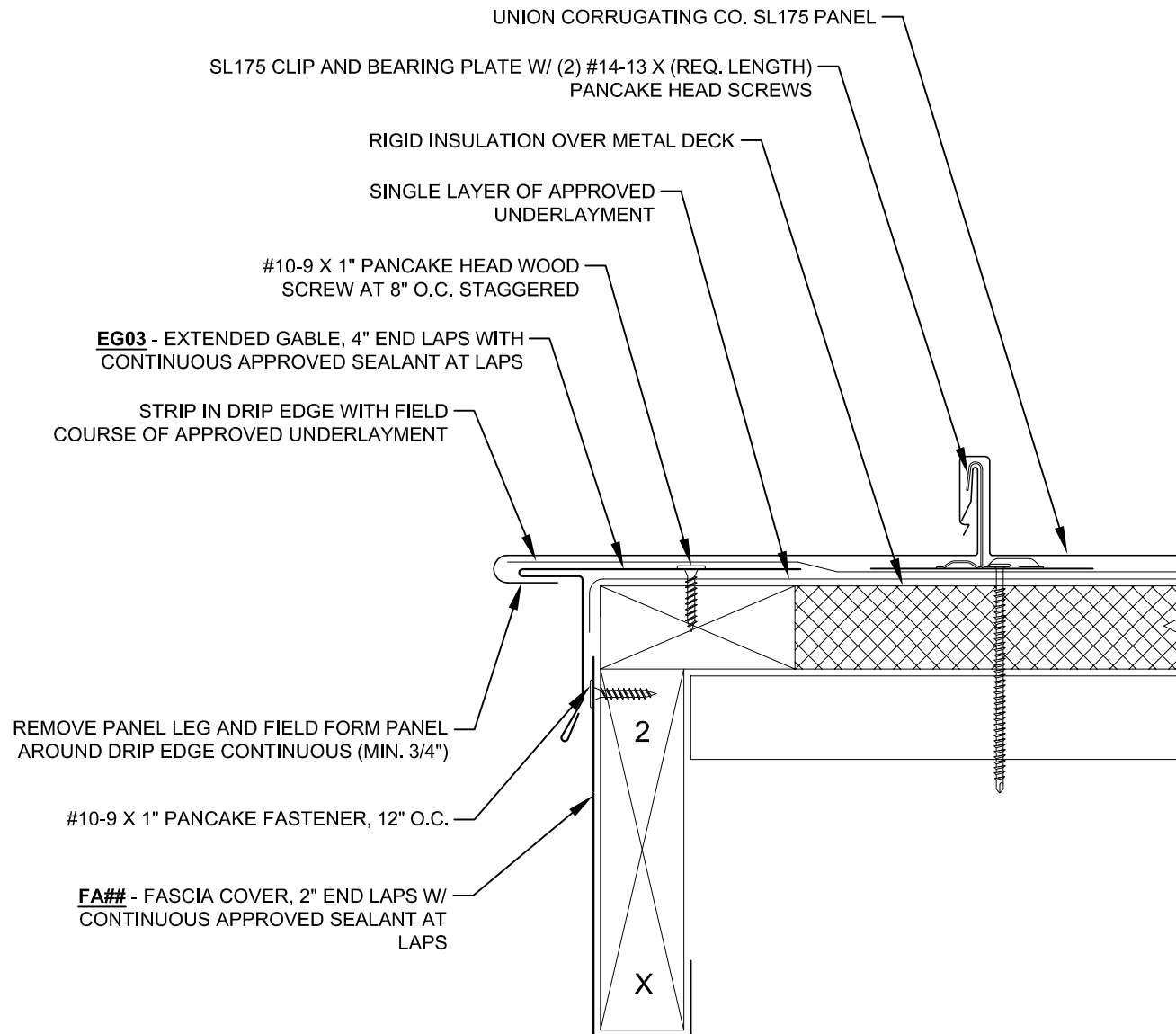
Detail No.:

SL175-1.90

Substrate:

Project Name:

Location:



Description:

GABLE DETAIL - EXTENDED DRIP STYLE

Detail No.:

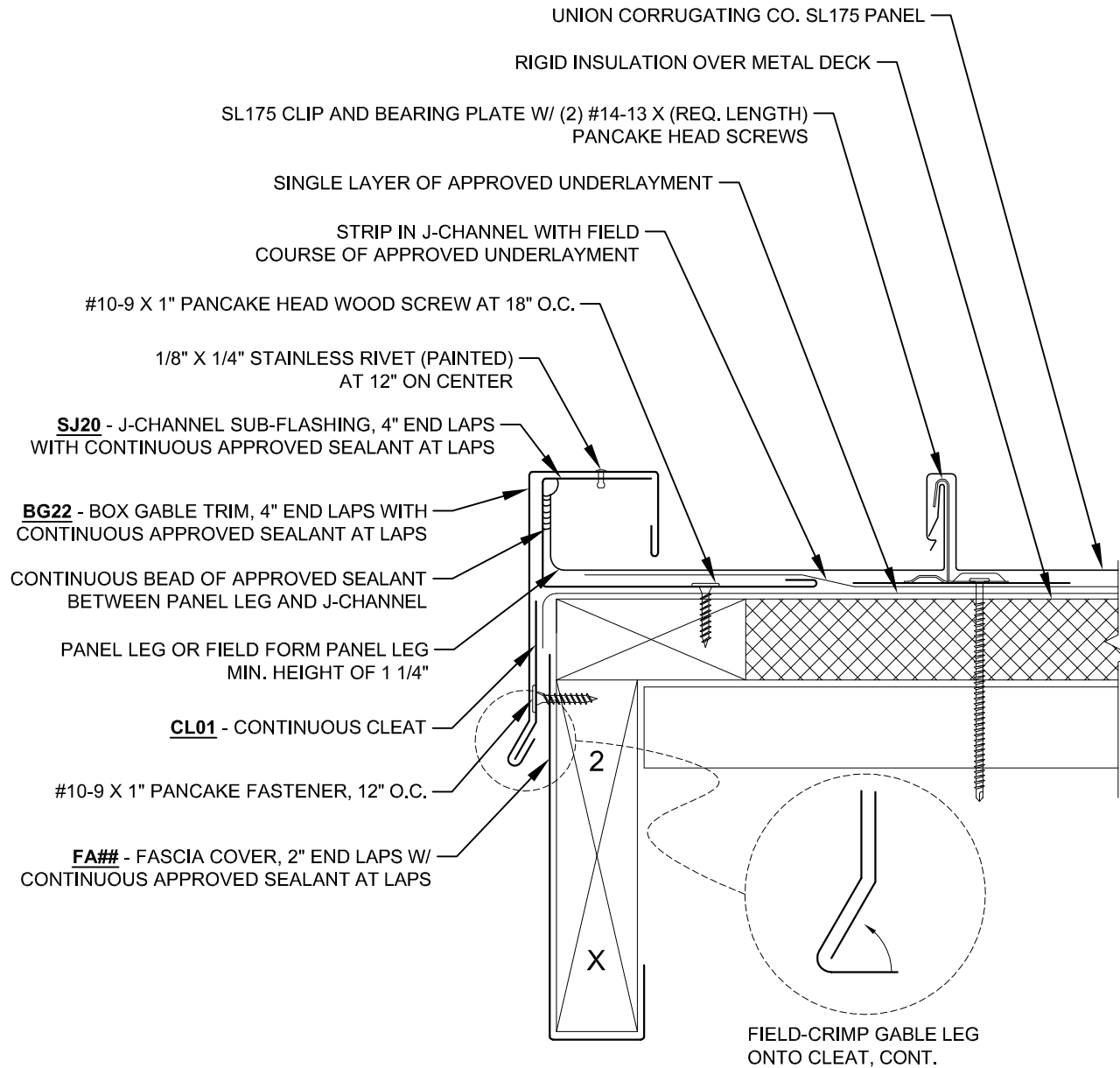
SL175-MD-2.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

GABLE DETAIL - BOX STYLE

Detail No.:

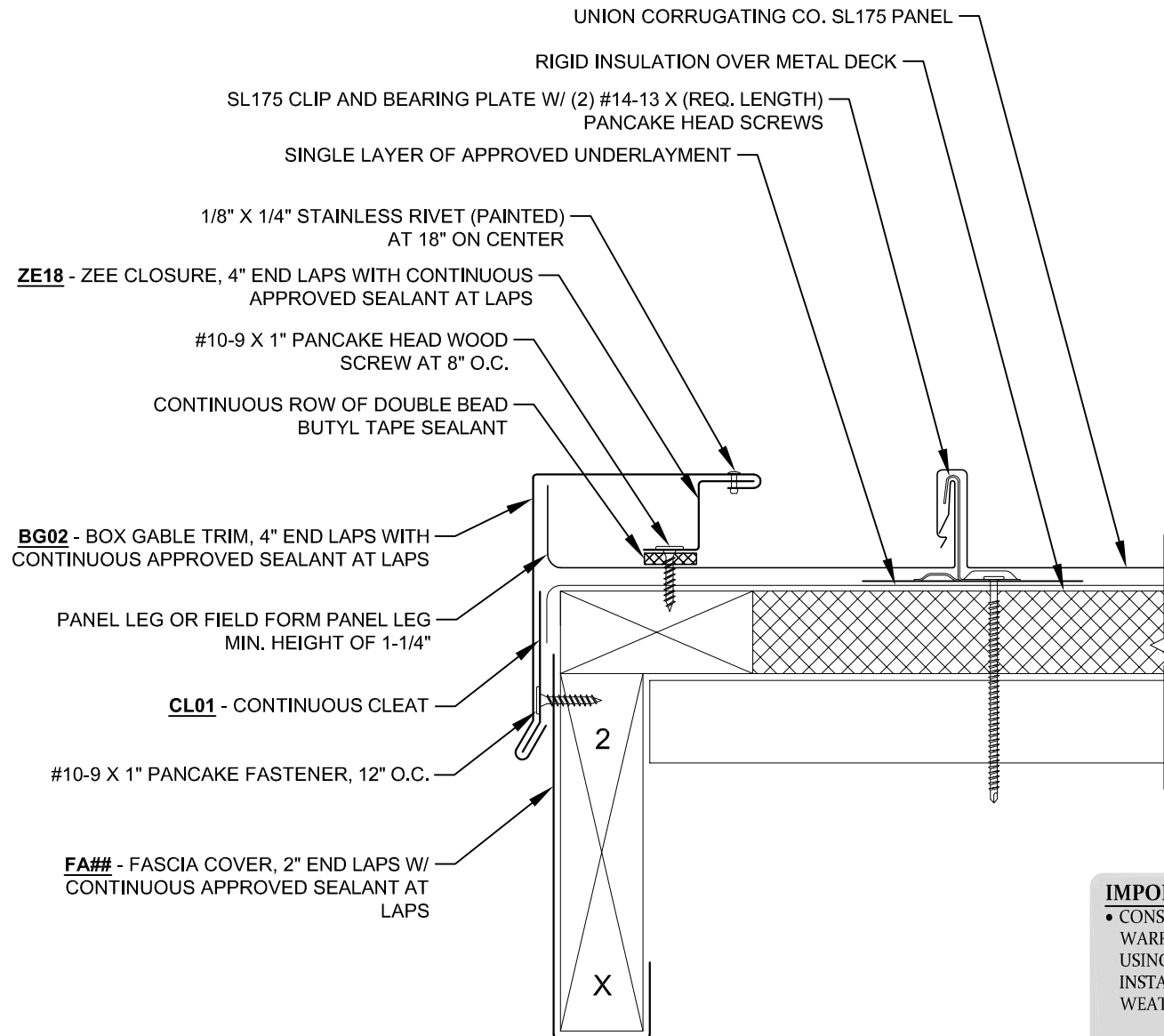
SL175-MD-2.20

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



IMPORTANT INSTALLATION NOTE

- CONSULT UNION CORRUGATING CO. WARRANTY DEPARTMENT BEFORE USING THIS DETAIL WHEN INSTALLATION REQUIRES WEATHERTIGHTNESS WARRANTY.
- THIS DETAIL NOT TO BE USED WITH PANEL LENGTHS GREATER THAN 30'-0".



Description:

GABLE DETAIL - BOX STYLE W/ Z-CLOSURE

Substrate:

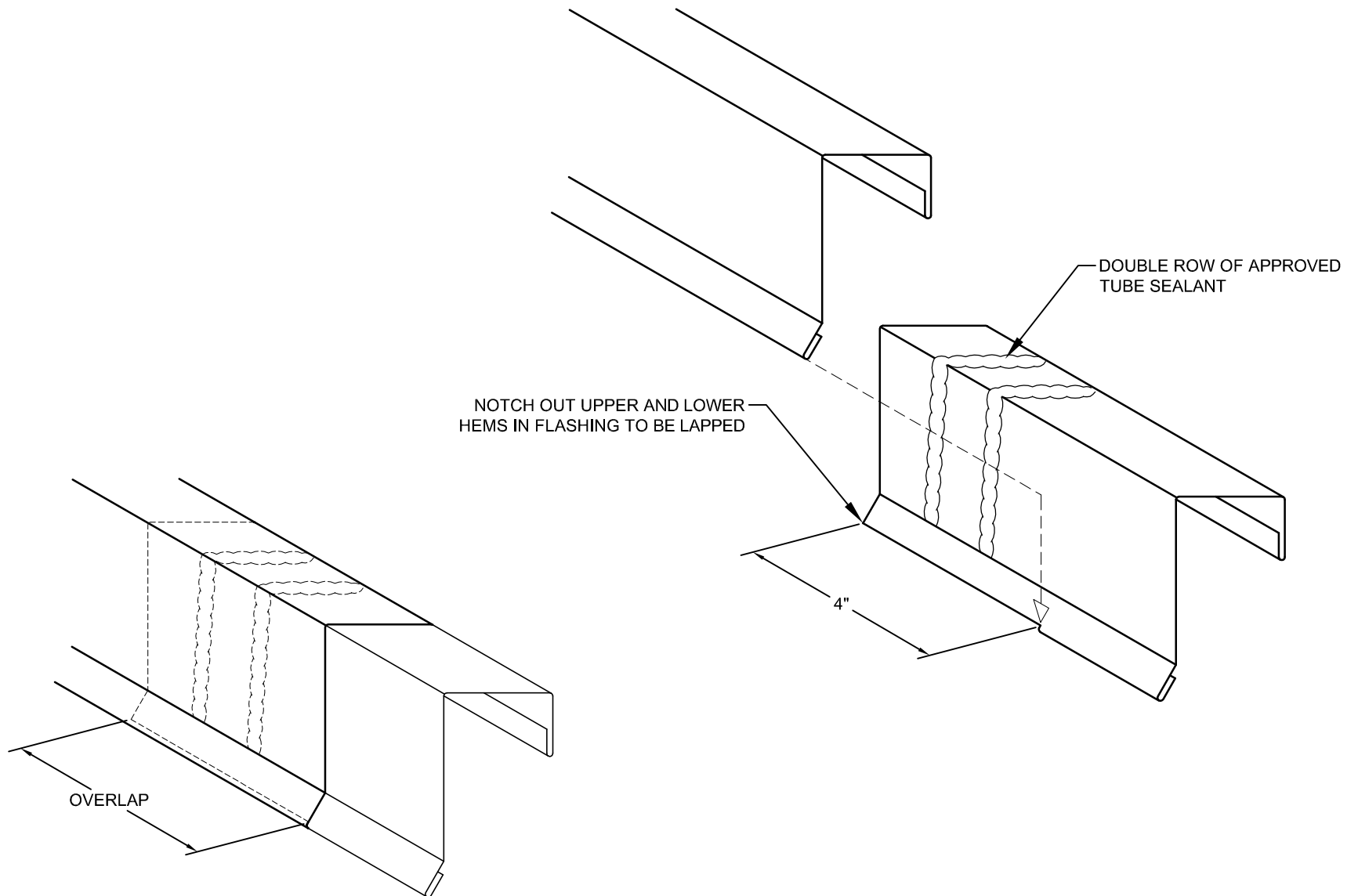
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL175-MD-2.30



Description:

BOX GABLE LAP DETAIL

Detail No.:

SL175-2.90

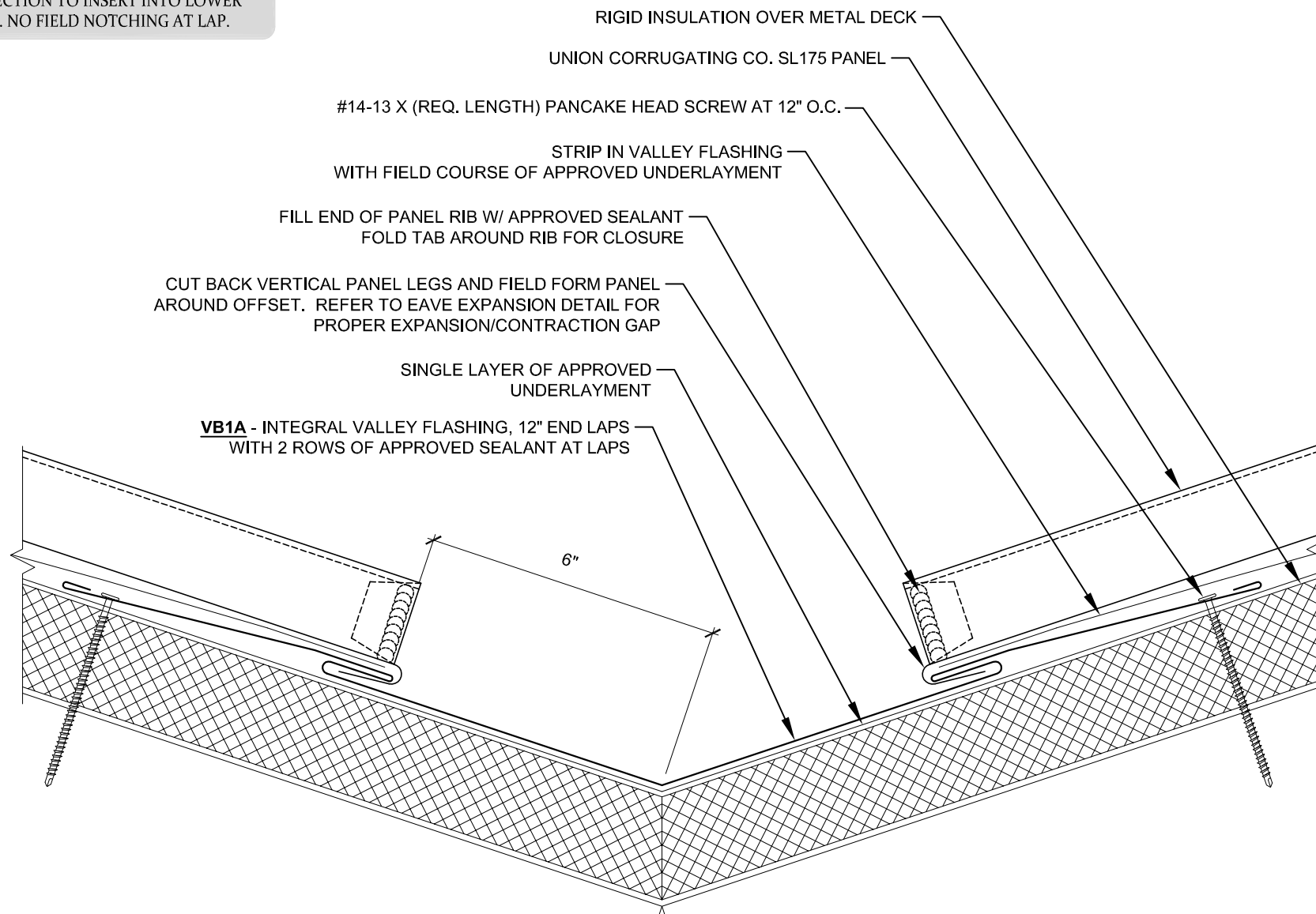
Substrate:

Project Name:

Location:

IMPORTANT INSTALLATION NOTE

EACH VALLEY SECTION IS MADE
PROGRESSIVELY SMALLER TO ALLOW
UPPER SECTION TO INSERT INTO LOWER
SECTION. NO FIELD NOTCHING AT LAP.



Description:

VALLEY DETAIL - INTEGRAL CLEAT

Detail No.:

SL175-MD-3.10

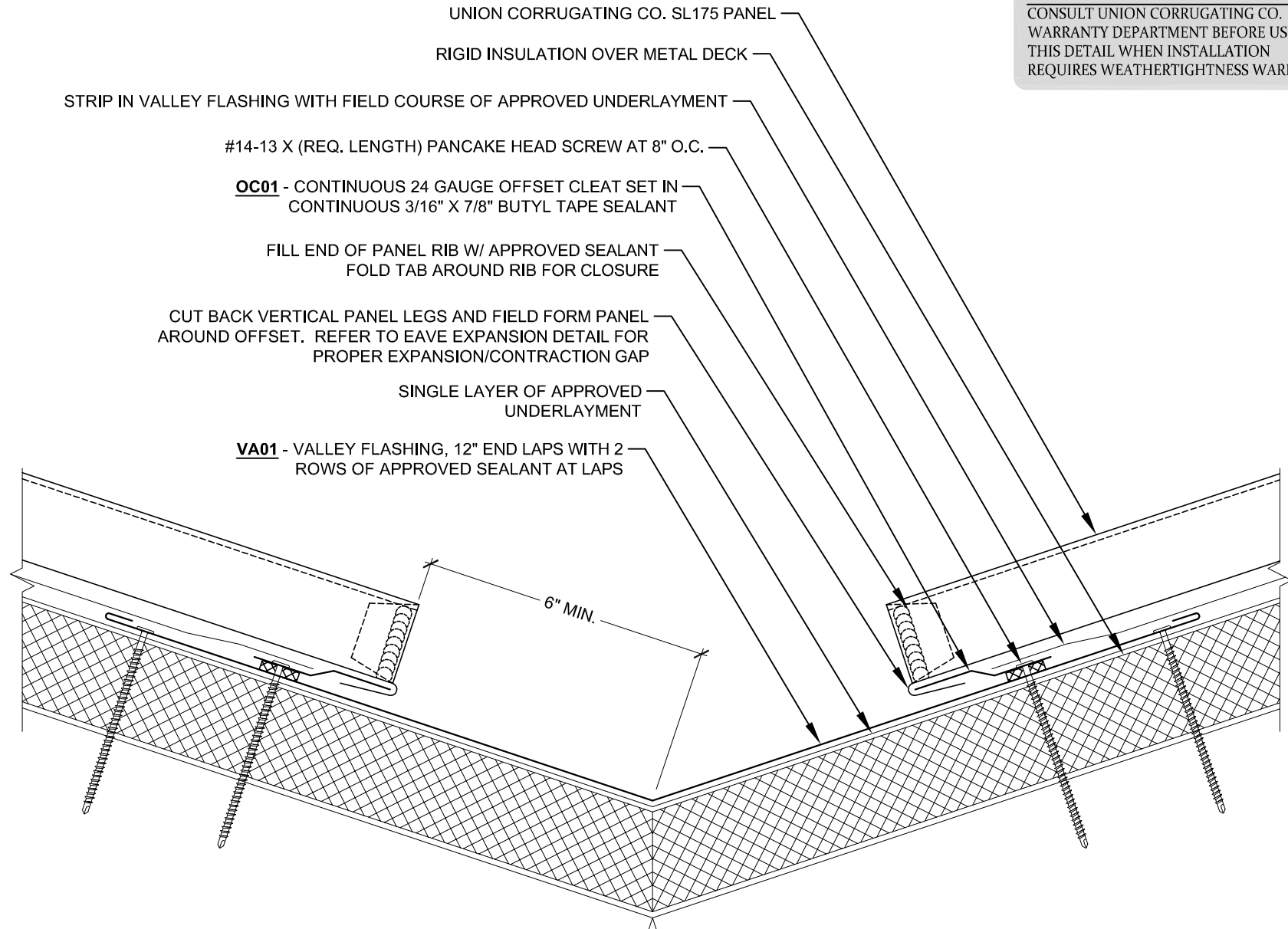
Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

IMPORTANT INSTALLATION NOTE
CONSULT UNION CORRUGATING CO.
WARRANTY DEPARTMENT BEFORE USING
THIS DETAIL WHEN INSTALLATION
REQUIRES WEATHERTIGHTNESS WARRANTY.



Description:

VALLEY - WITH OFFSET CLEAT

Detail No.:

SL175-MD-3.20

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

DOUBLE ROW OF APPROVED TUBE SEALANT

FASTEN VALLEY AT TOP END UNDER LAP

12" LAP

*SEE NOTE

TELESCOPING VALLEY FLASHING LAP

IMPORTANT INSTALLATION NOTE

EACH VALLEY SECTION IS MADE
PROGRESSIVELY SMALLER TO ALLOW
UPPER SECTION TO INSERT INTO LOWER
SECTION. NO FIELD NOTCHING AT LAP.



Description:

VALLEY LAP DETAIL

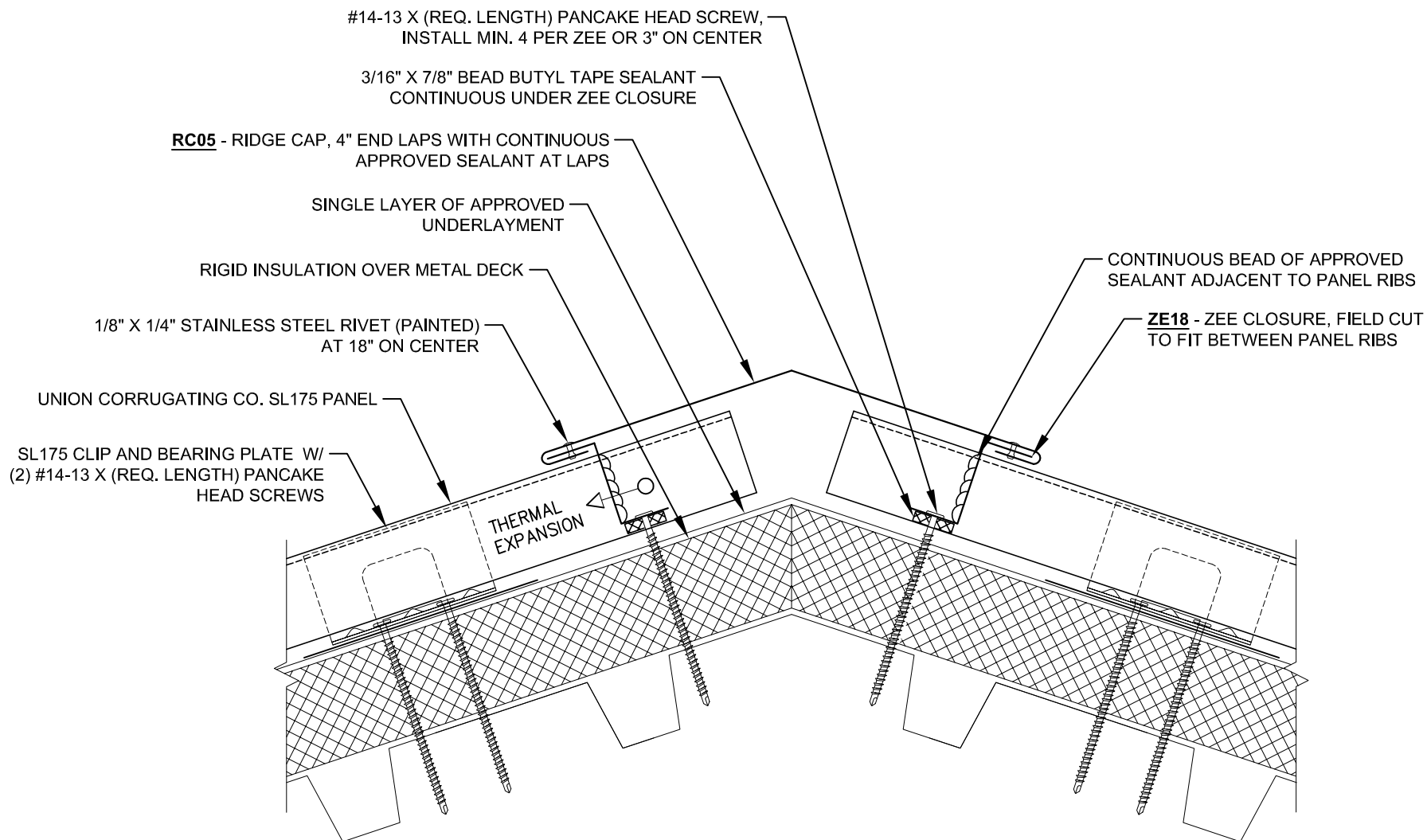
Detail No.:

SL175-3.90

Substrate:

Project Name:

Location:



Description:

HIP AND RIDGE DETAIL

Detail No.:

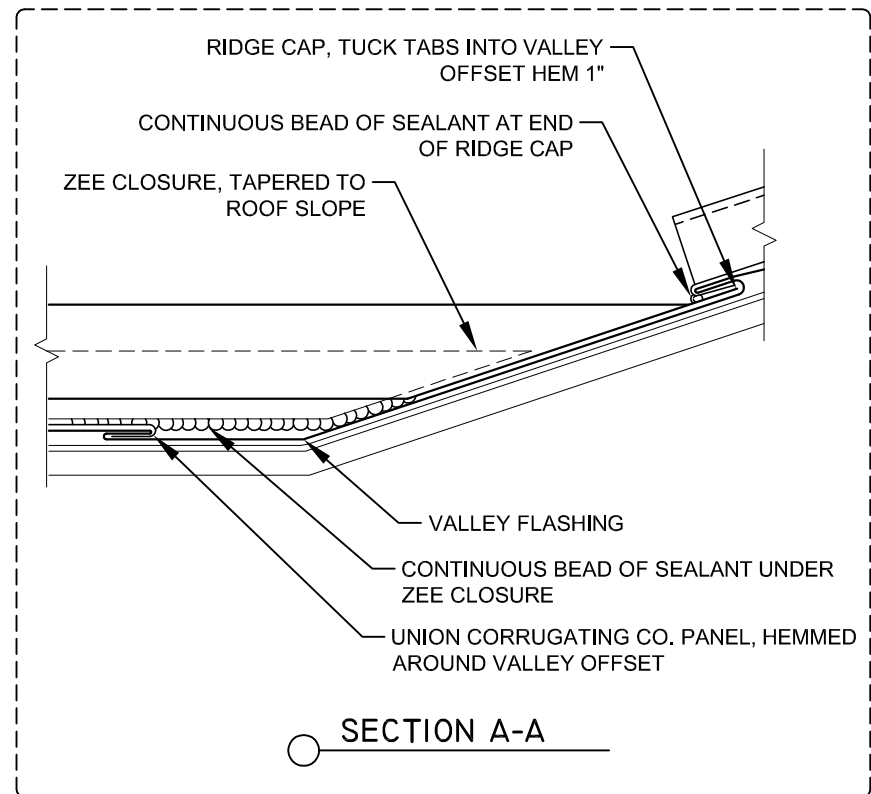
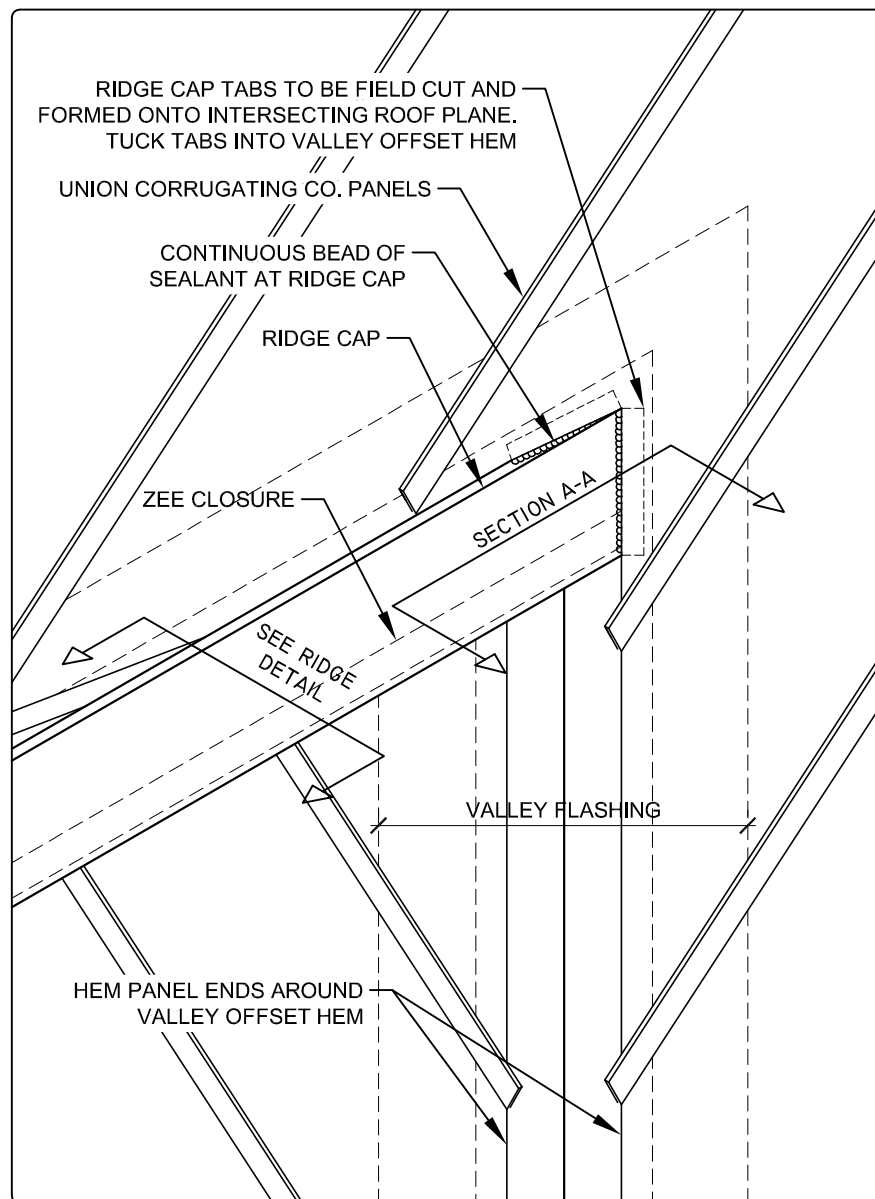
SL175-MD-4.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

RIDGE TERMINATION @ VALLEY

Detail No.:

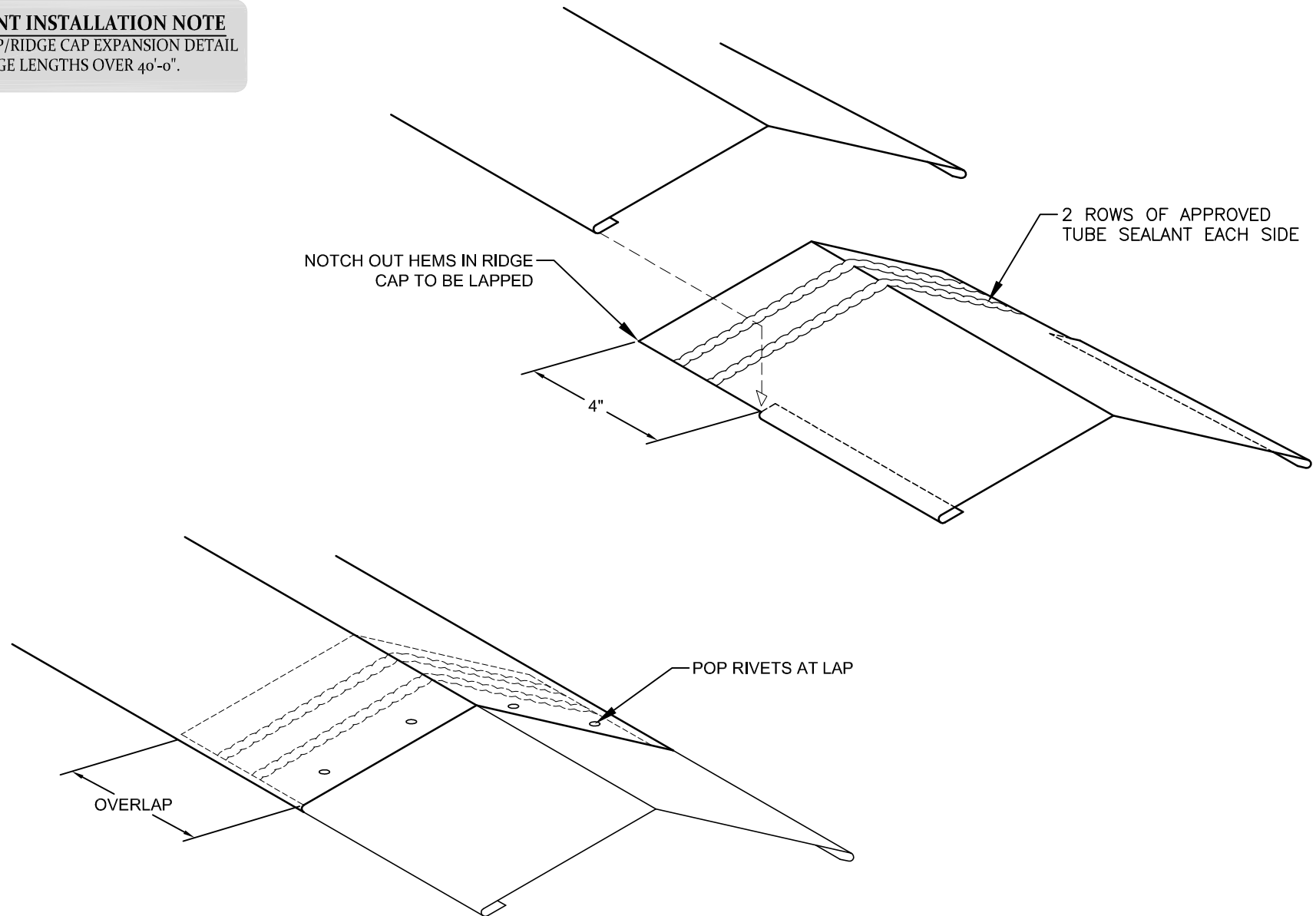
SL175-4.40

Substrate:

Project Name:

Location:

IMPORTANT INSTALLATION NOTE
REFER TO HIP/RIDGE CAP EXPANSION DETAIL
FOR HIP/RIDGE LENGTHS OVER 40'-0".



Description:

HIP & RIDGE CAP LAP DETAIL

Detail No.:

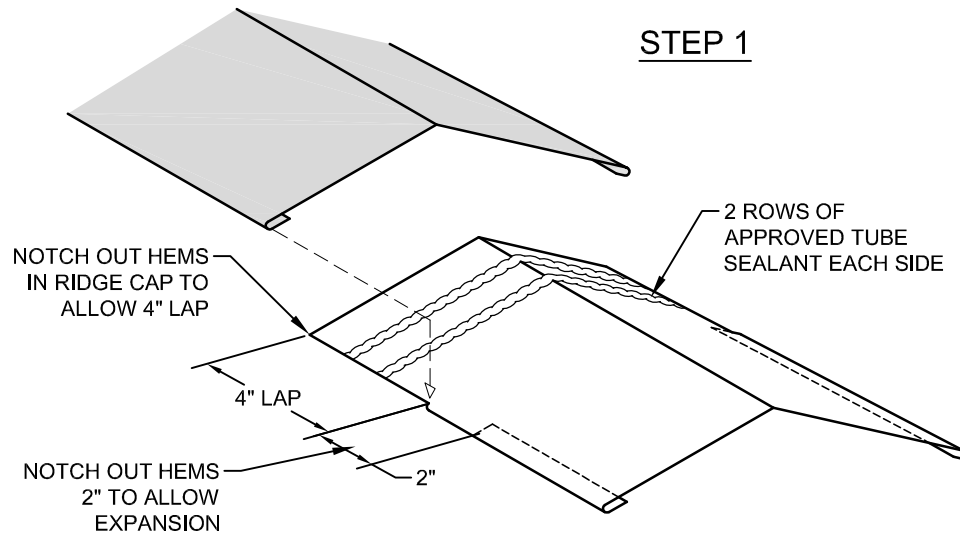
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Substrate:

Project Name:

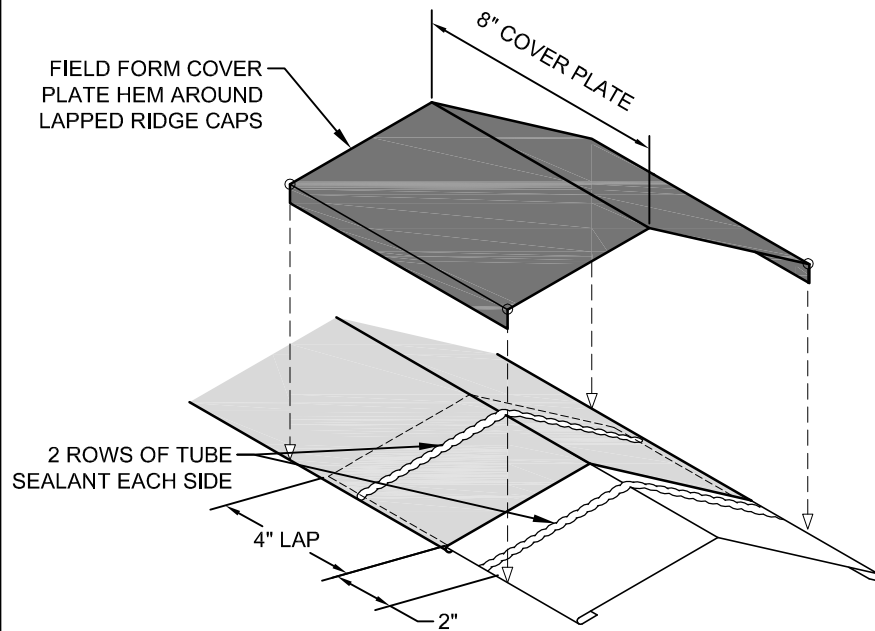
Location:

STEP 1

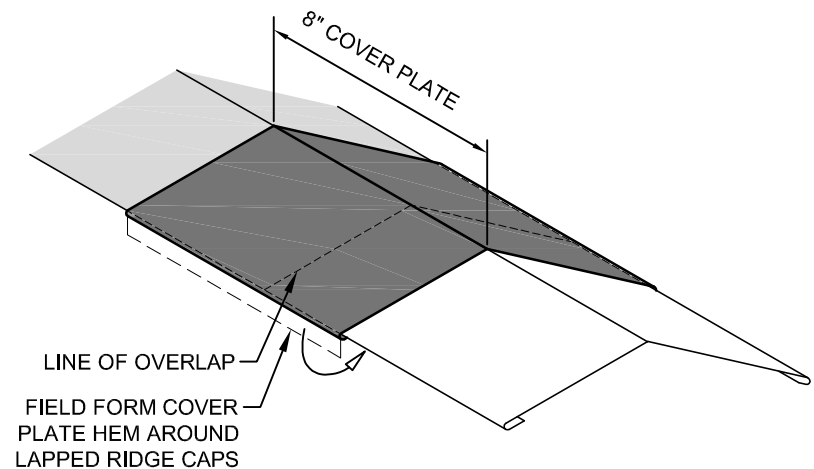


IMPORTANT INSTALLATION NOTE

USE AT EVERY 40'0" OF CONTINUOUS RIDGE.
DO NOT POP RIVET LAPPED FLASHING.



STEP 2



STEP 3



Description:

Substrate:

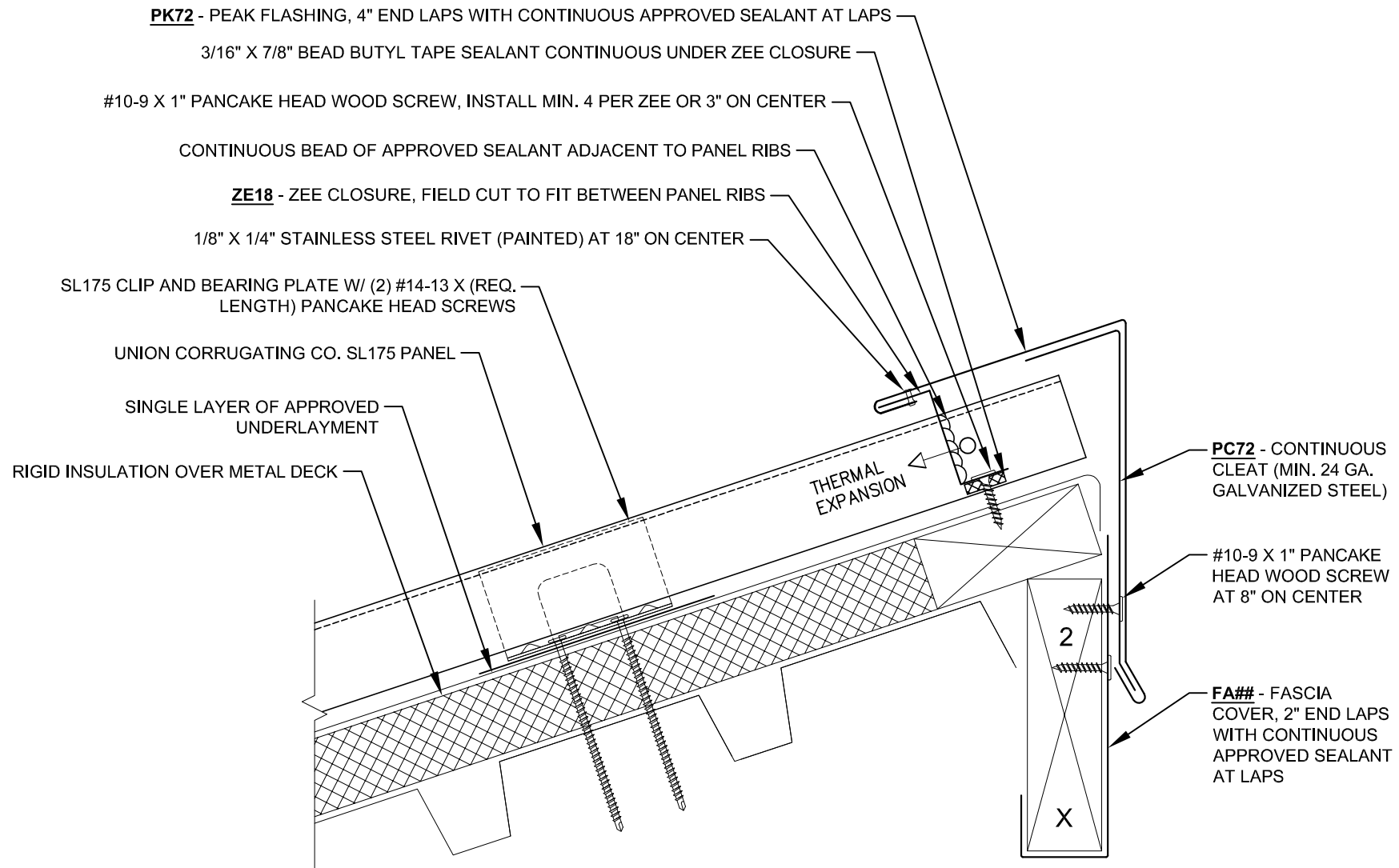
HIP & RIDGE CAP EXPANSION

Detail No.:

SL175-4.91

Project Name:

Location:



Description:

PEAK DETAIL

Detail No.:

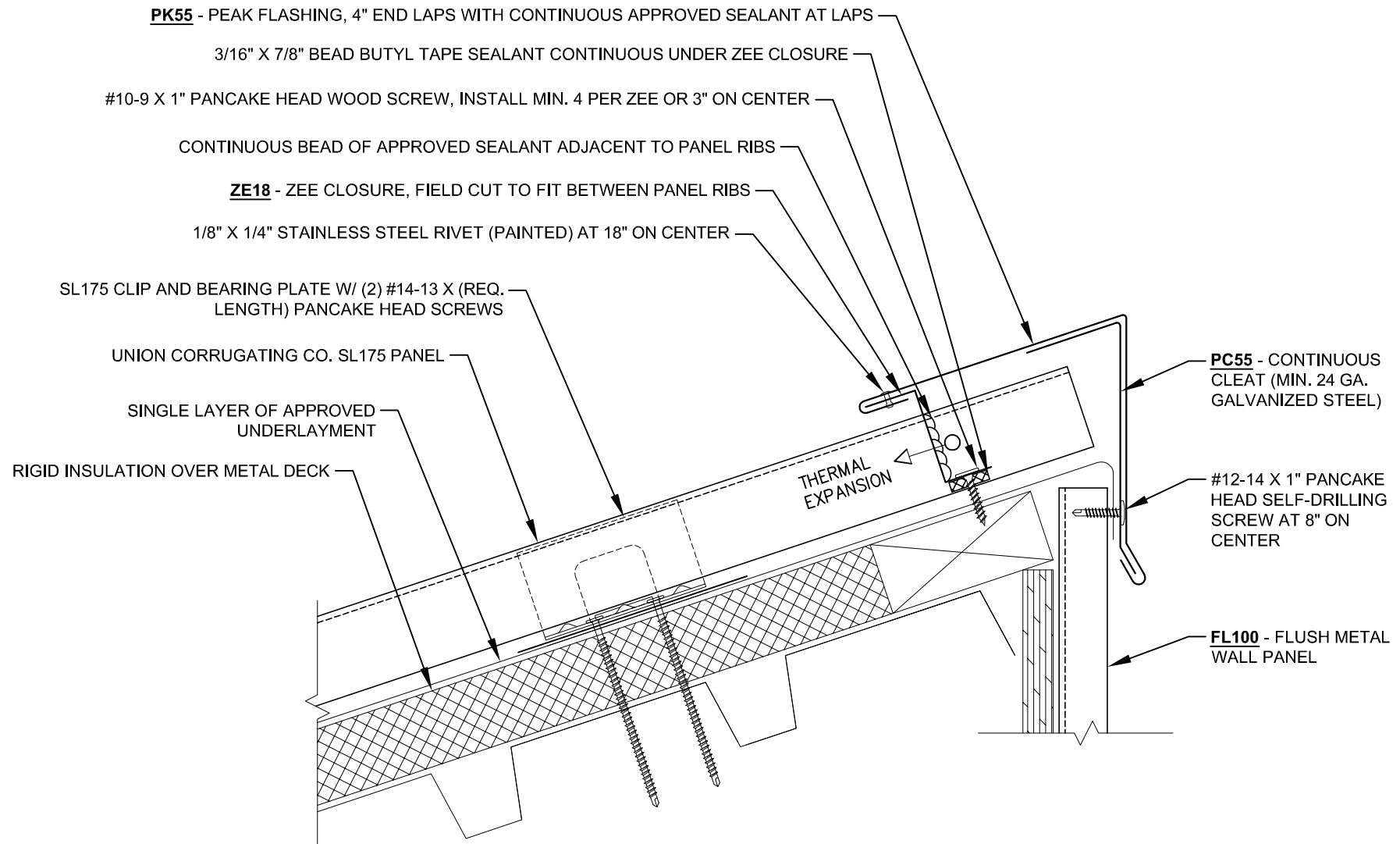
SL175-MD-5.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

PEAK DETAIL - WITH WALL PANELS

Detail No.:

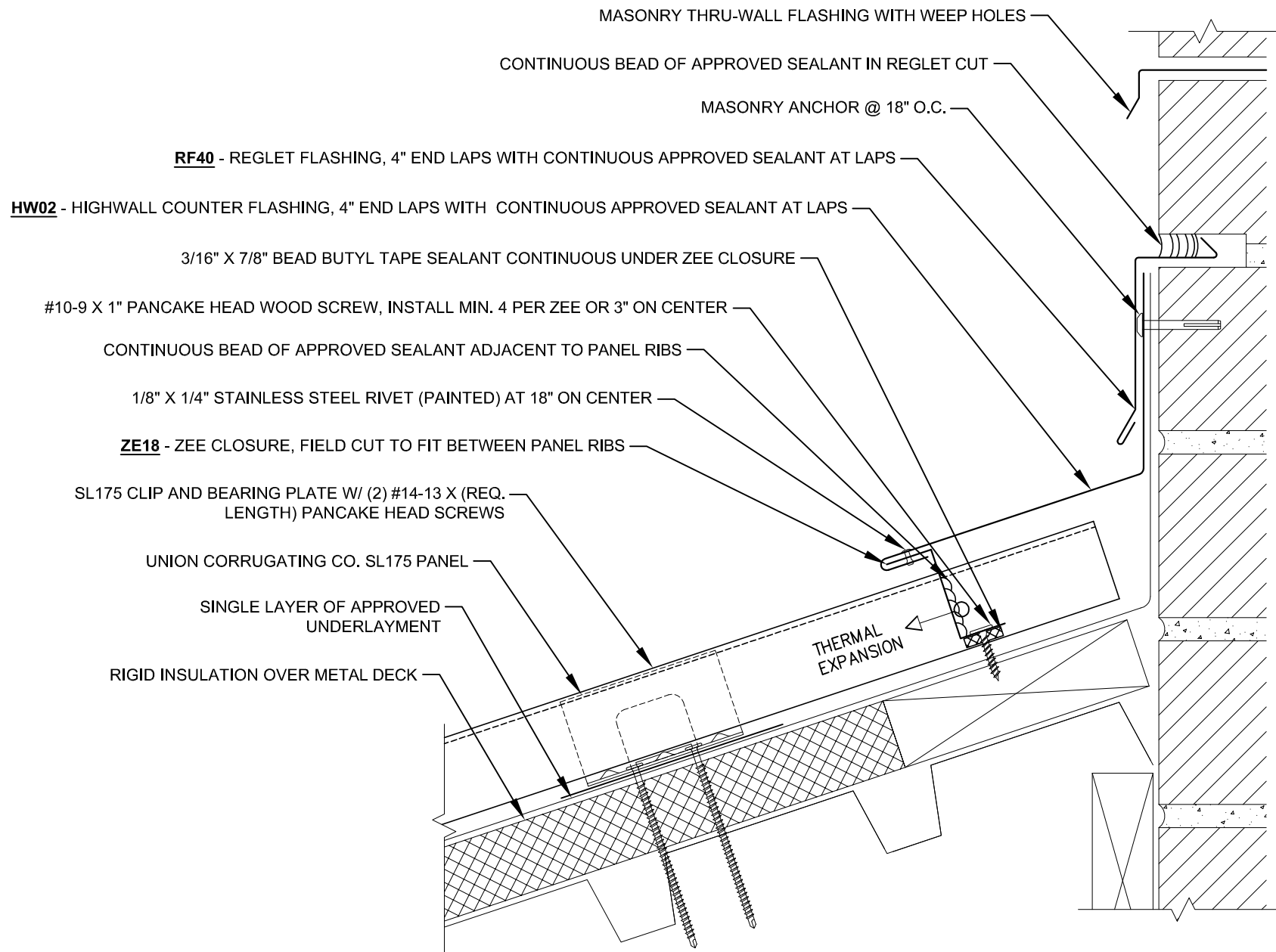
SL175-MD-5.40

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

HIGHWALL DETAIL - REGLET

Detail No.:

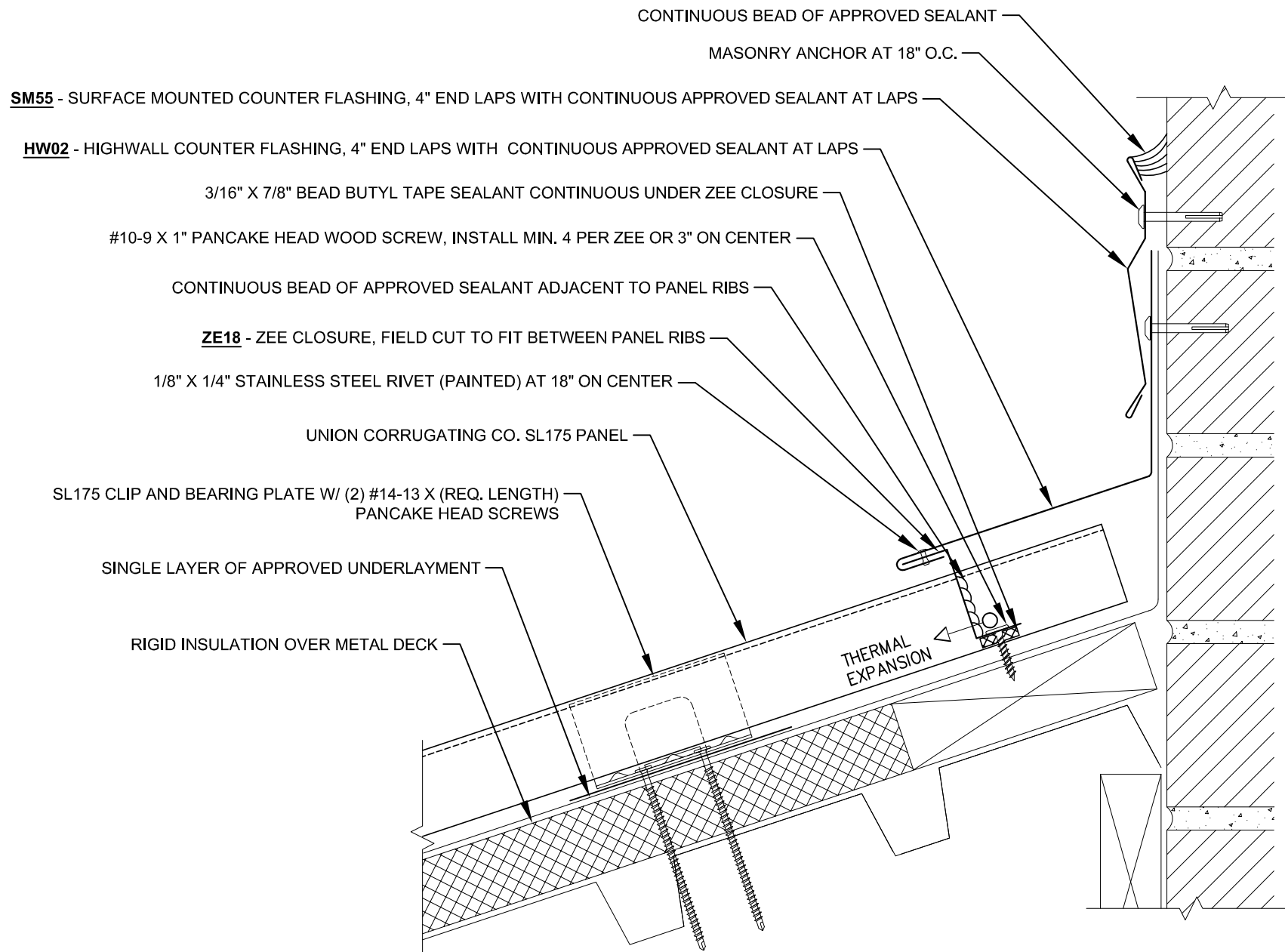
SL175-MD-6.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

HIGHWALL DETAIL - SURFACE MOUNT

Detail No.:

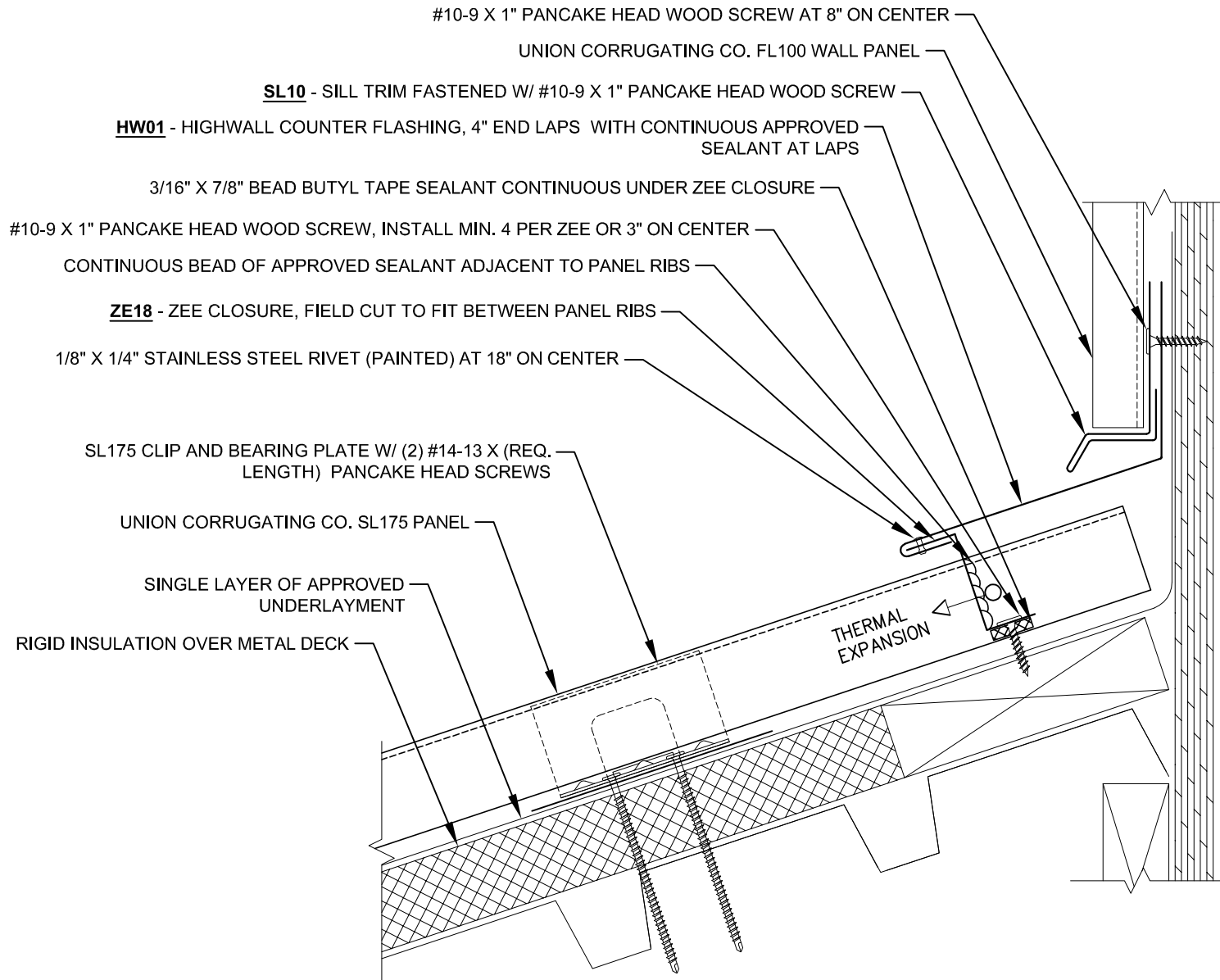
SL175-MD-6.12

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

HIGHWALL DETAIL - WALL PANEL W/ SILL

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL175-MD-6.14

MEMBRANE ROOFING SYSTEM. EXTEND OVER PARAPET AND DOWN FACE OF WALL MINIMUM 3"

COPING SYSTEM WITH CONTINUOUS CLEAT (MIN. 24 GAUGE) FASTENED AT 8" ON CENTER AT CLEAT AND 24" ON CENTER AT REAR. INSTALL WITH 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS.

HW02 - HIGHWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

#10-9 X 1" PANCAKE HEAD WOOD SCREW, INSTALL MIN. 4 PER ZEE OR 3" ON CENTER

CONTINUOUS BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

ZE18 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL175 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

THERMAL EXPANSION



Description:

HIGHWALL DETAIL - PARAPET COPING

Detail No.:

SL175-MD-6.20

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

FILL END OF PANEL RIB W/ APPROVED SEALANT FOLD TAB AROUND RIB FOR CLOSURE

LW01 - LOW WALL FLASHING, 12" END LAPS WITH 2 ROWS OF APPROVED SEALANT AT LAPS

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND OFFSET. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

#14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW AT 8" O.C.

OC01 - CONTINUOUS 24 GAUGE OFFSET CLEAT SET IN CONTINUOUS 3/16" X 7/8" BUTYL TAPE SEALANT

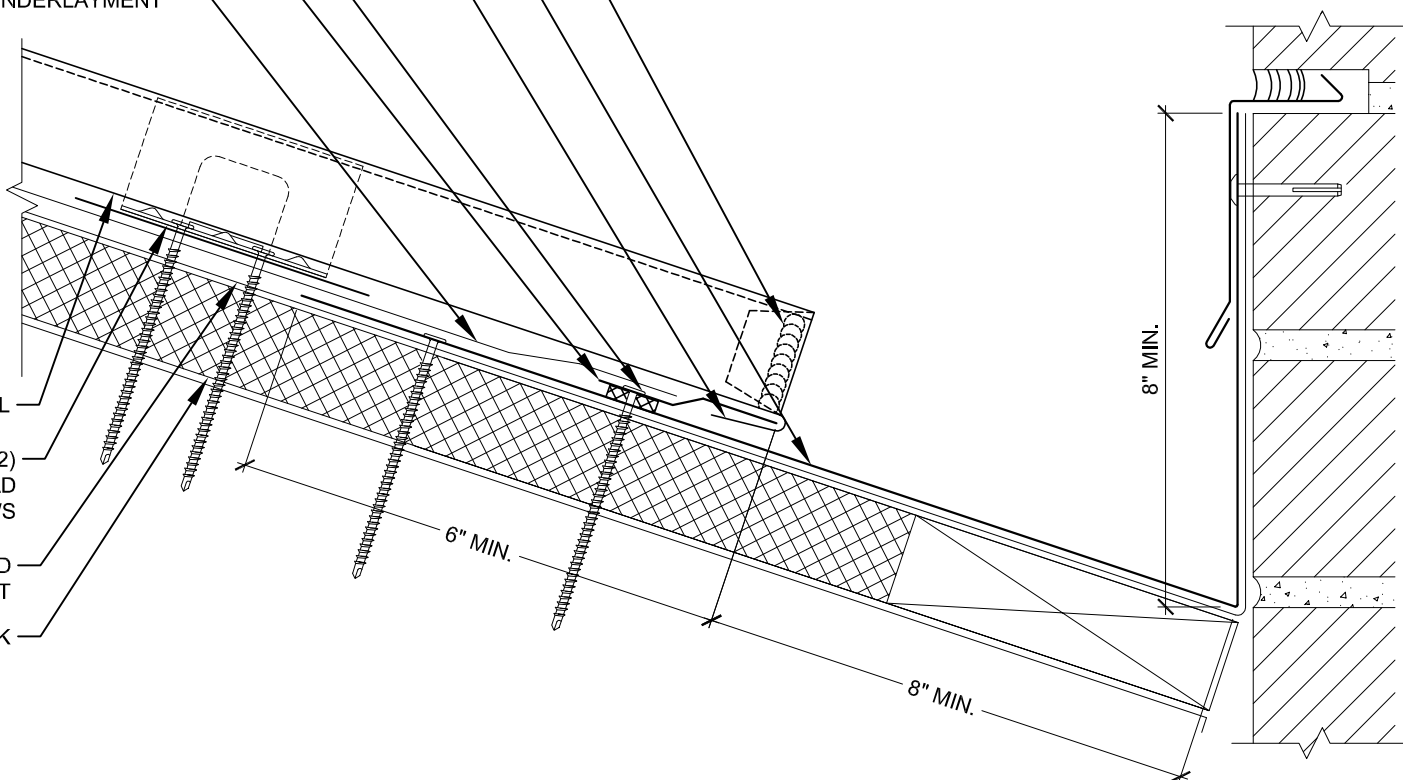
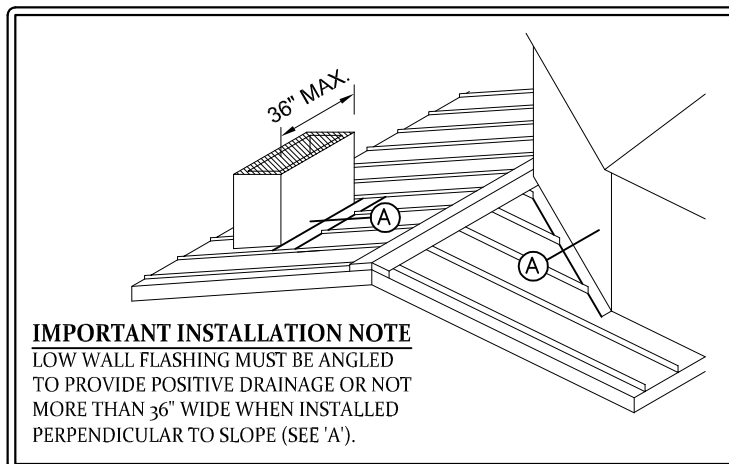
STRIP IN LOW WALL FLASHING WITH FIELD COURSE OF APPROVED UNDERLAYMENT

UNION CORRUGATING CO. SL175 PANEL

SL175 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK



Description:

VALLEY WALL DETAIL

Detail No.:

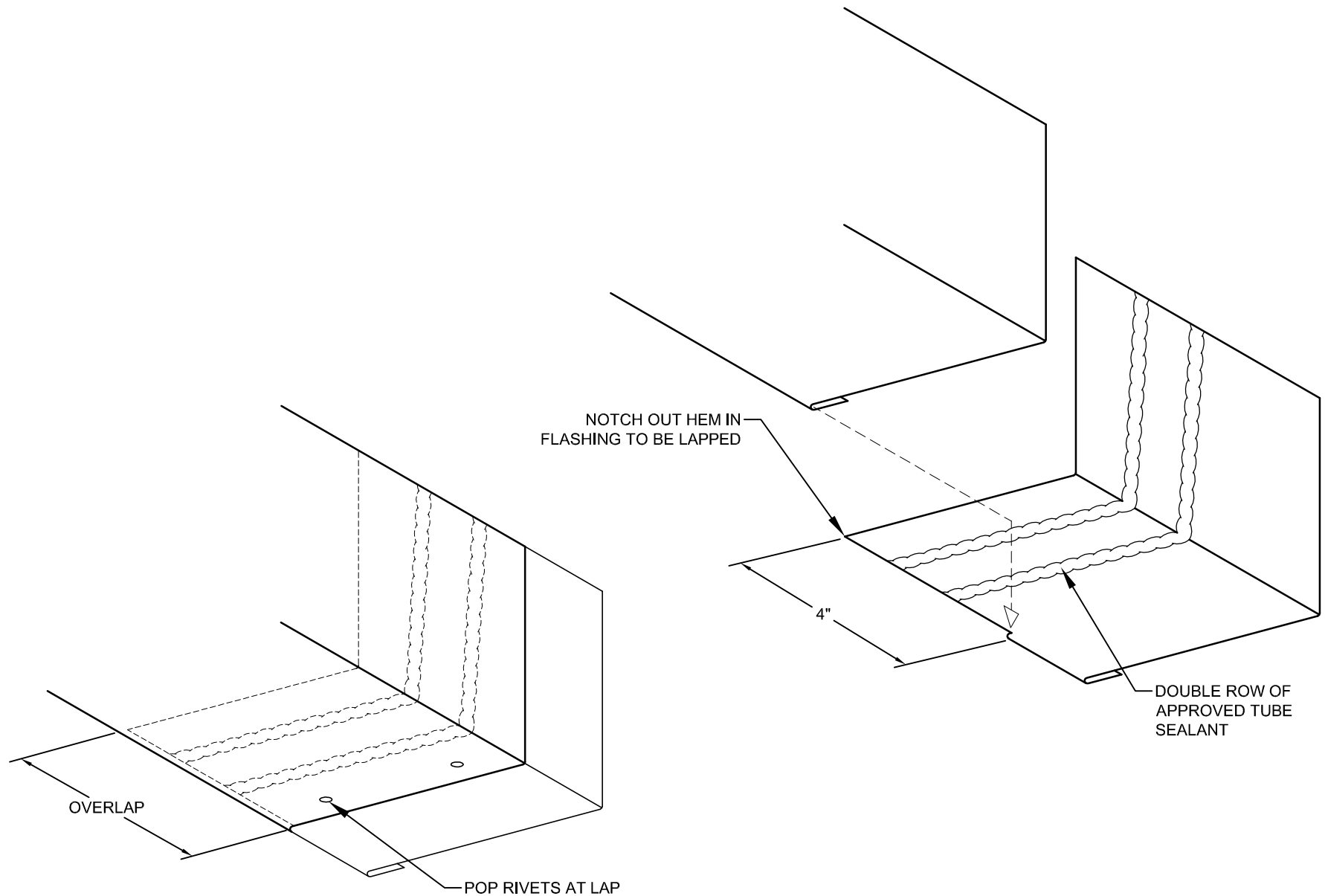
SL175-MD-6.30

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

HIGHWALL LAP DETAIL

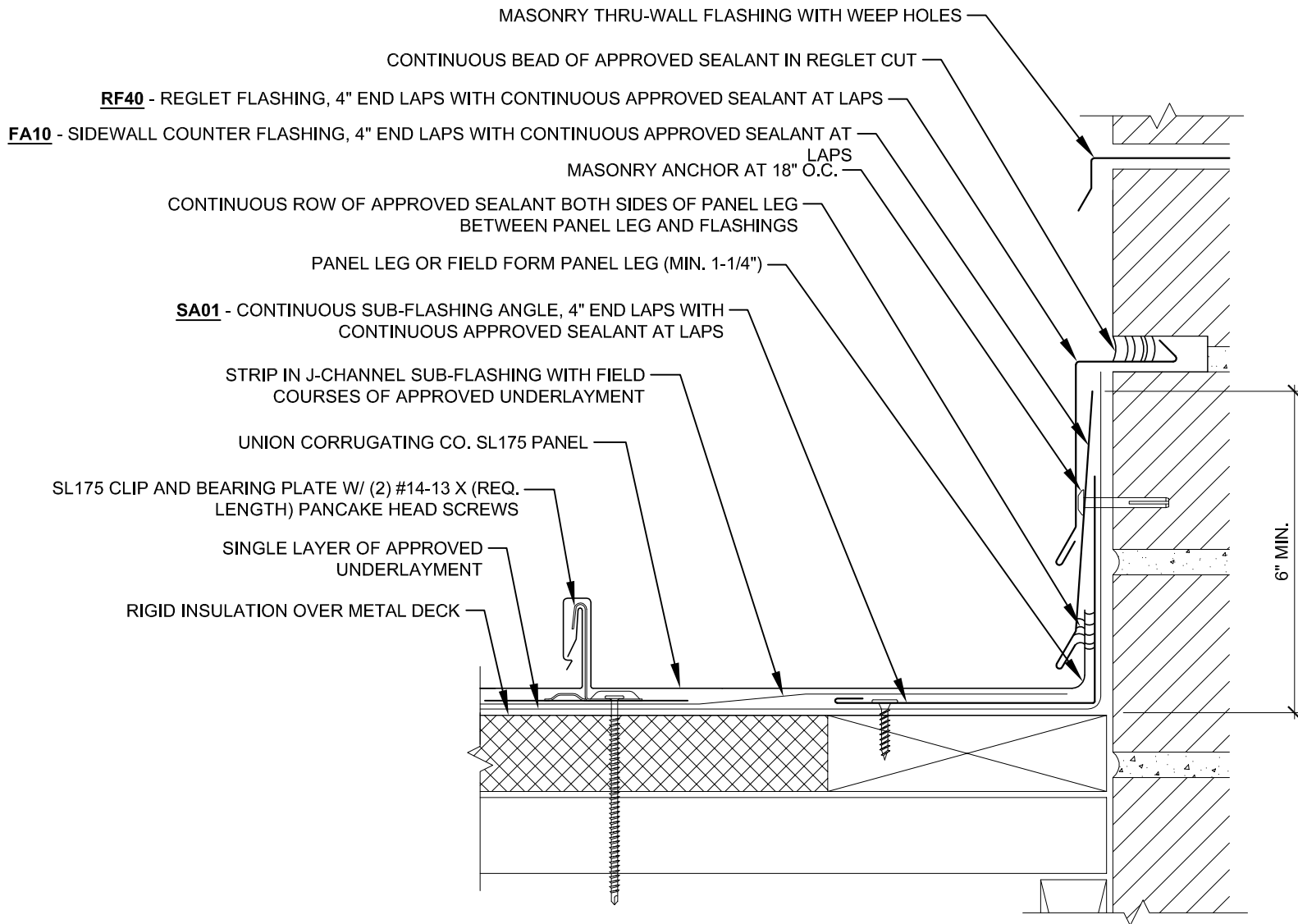
Detail No.:

SL175-6.90

Substrate:

Project Name:

Location:



Description:

SIDEWALL DETAIL - REGLET

Detail No.:

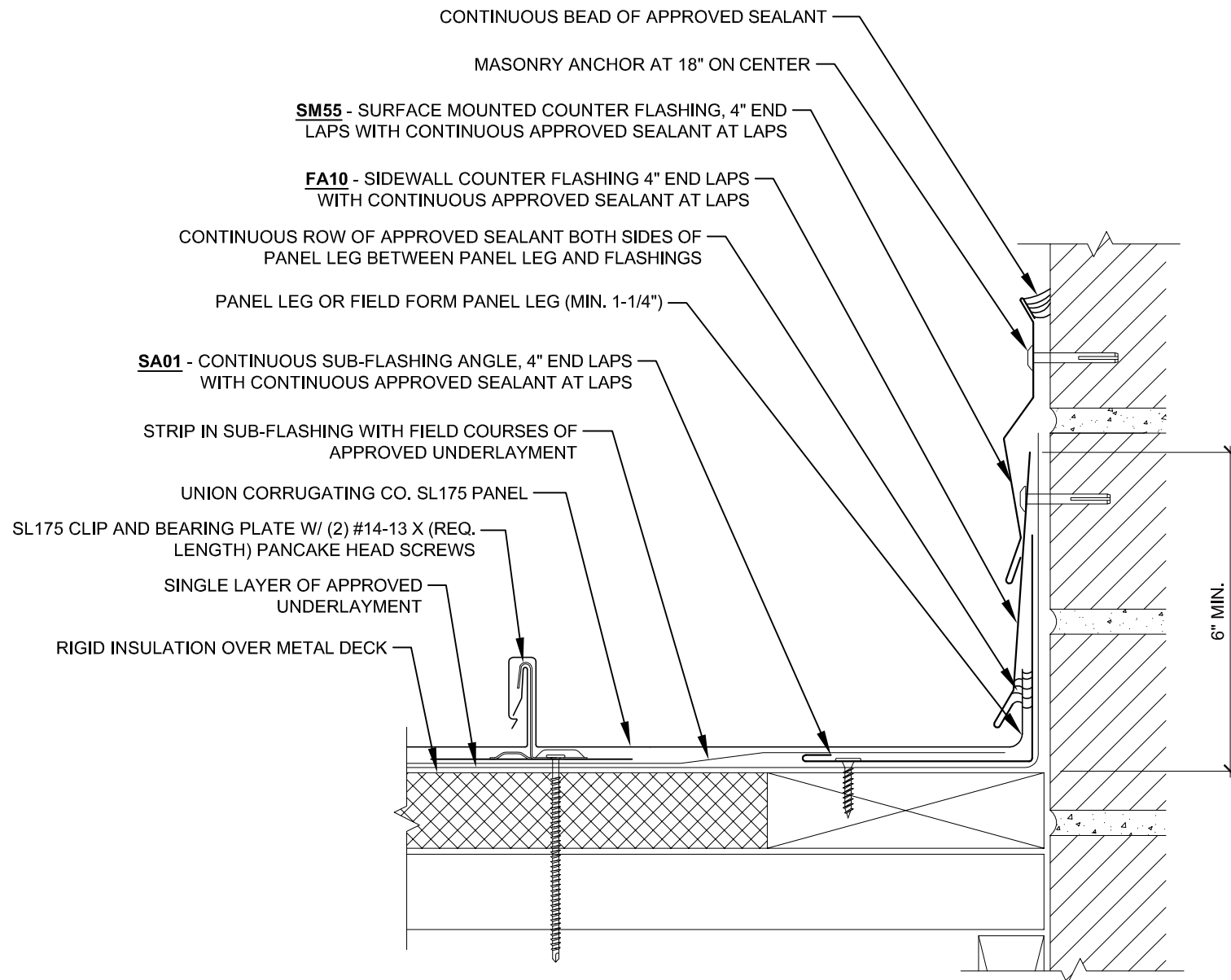
SL175-MD-7.11

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL DETAIL - SURFACE MOUNT

Detail No.:

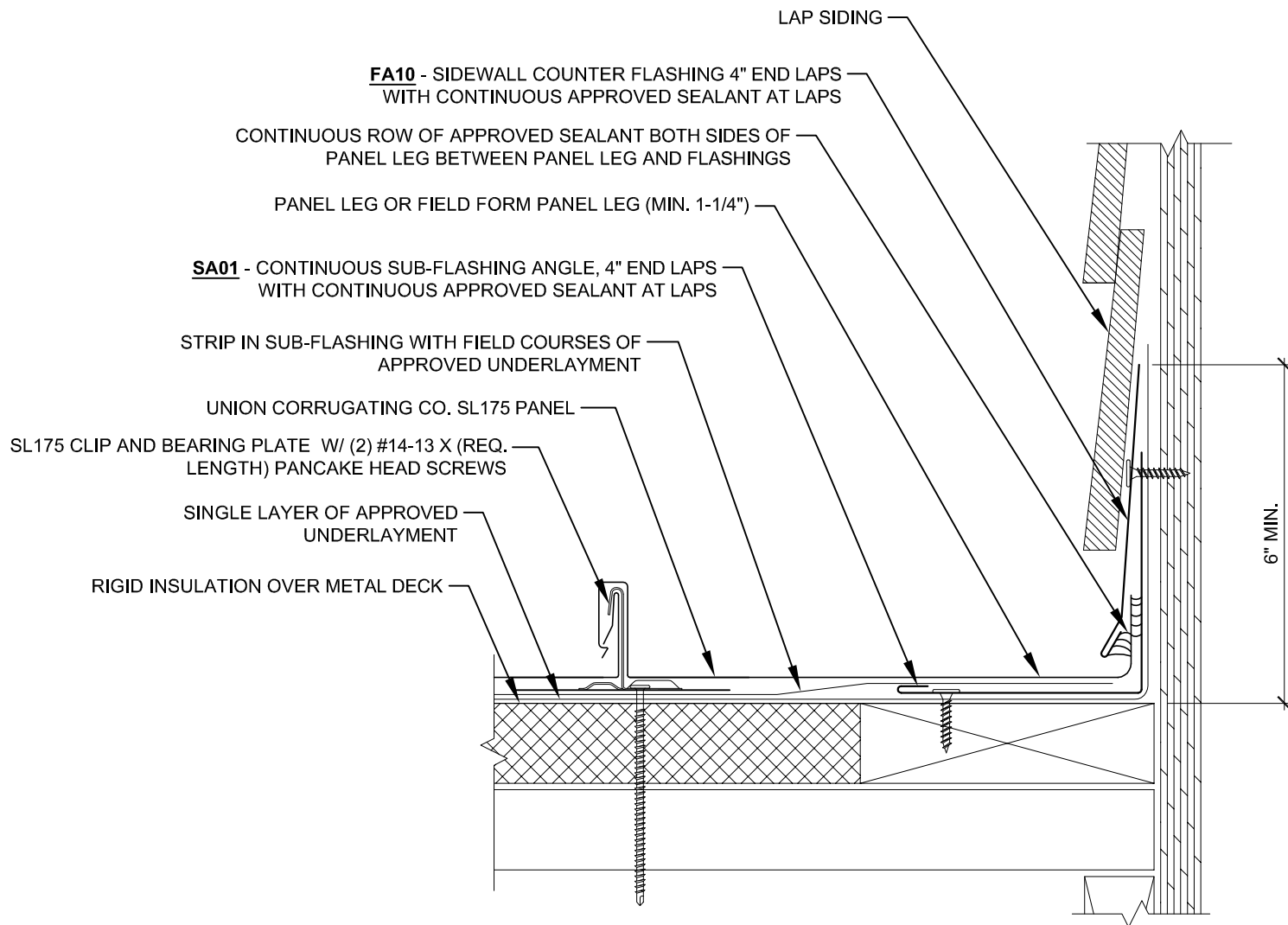
SL175-MD-7.12

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL DETAIL - WOOD FRAMING & SIDING

Substrate:

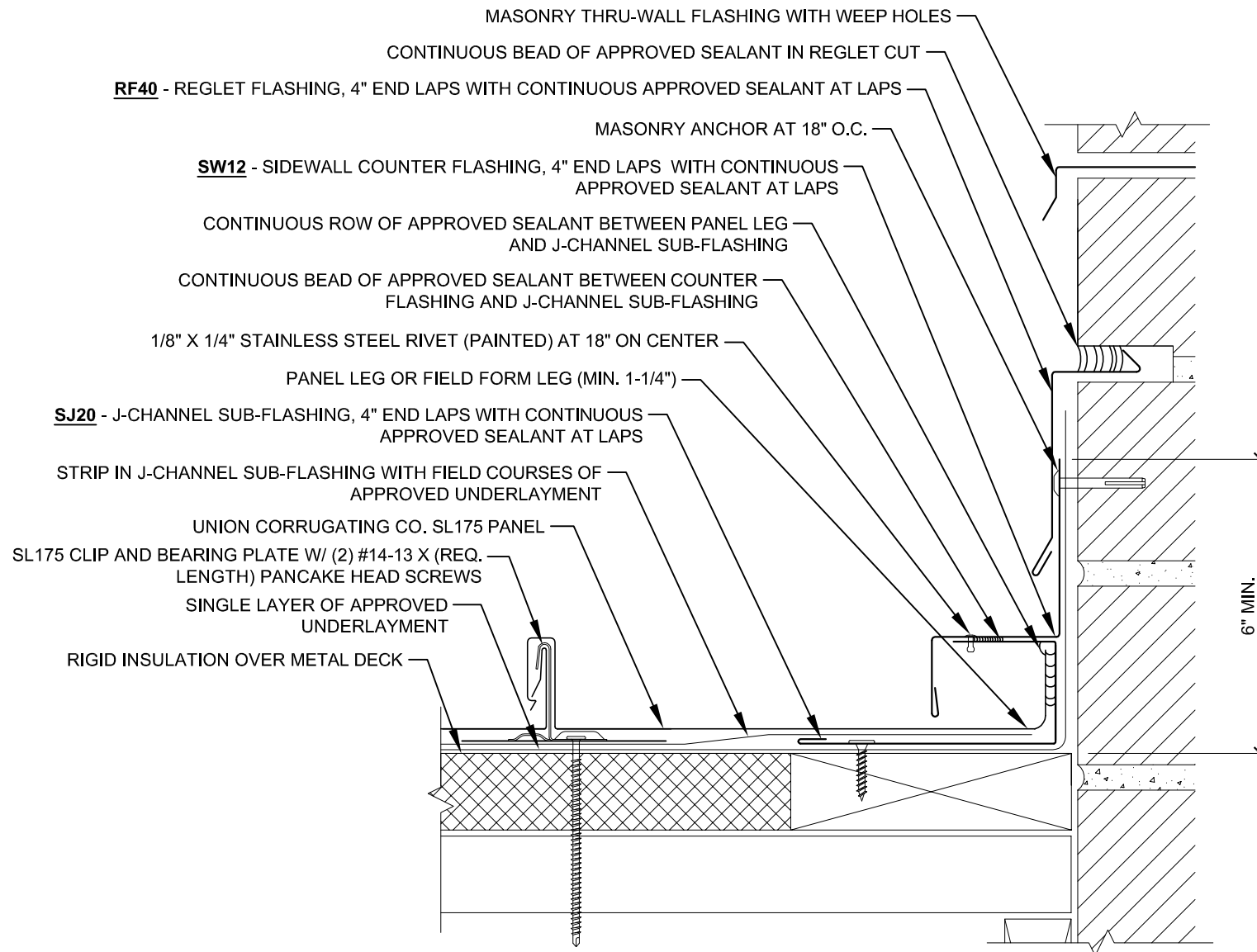
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL175-MD-7.13



Description:

SIDEWALL DETAIL - REGLET

Detail No.:

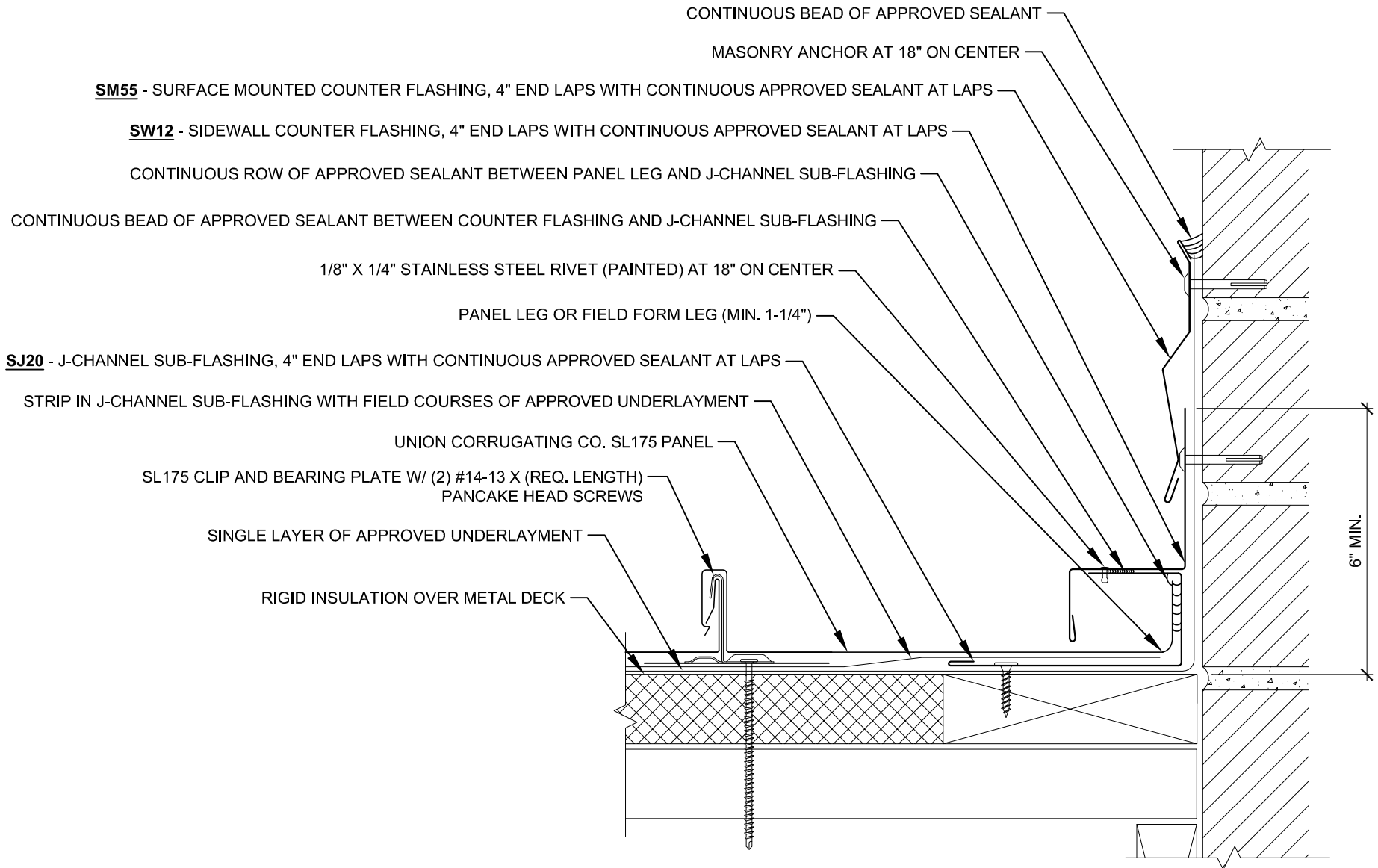
SL175-MD-7.21

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL DETAIL - SURFACE MOUNT

Detail No.:

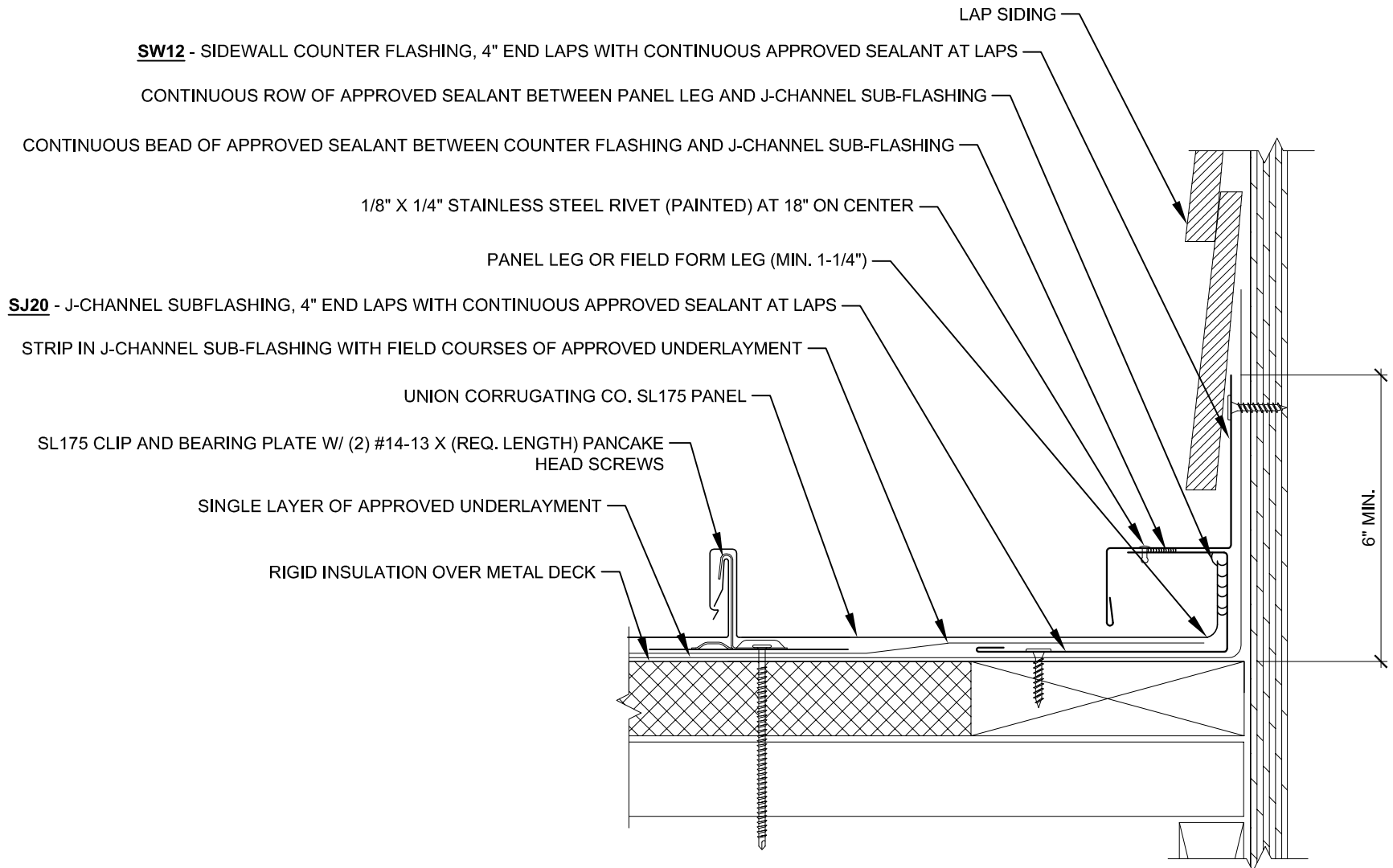
SL175-MD-7.22

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

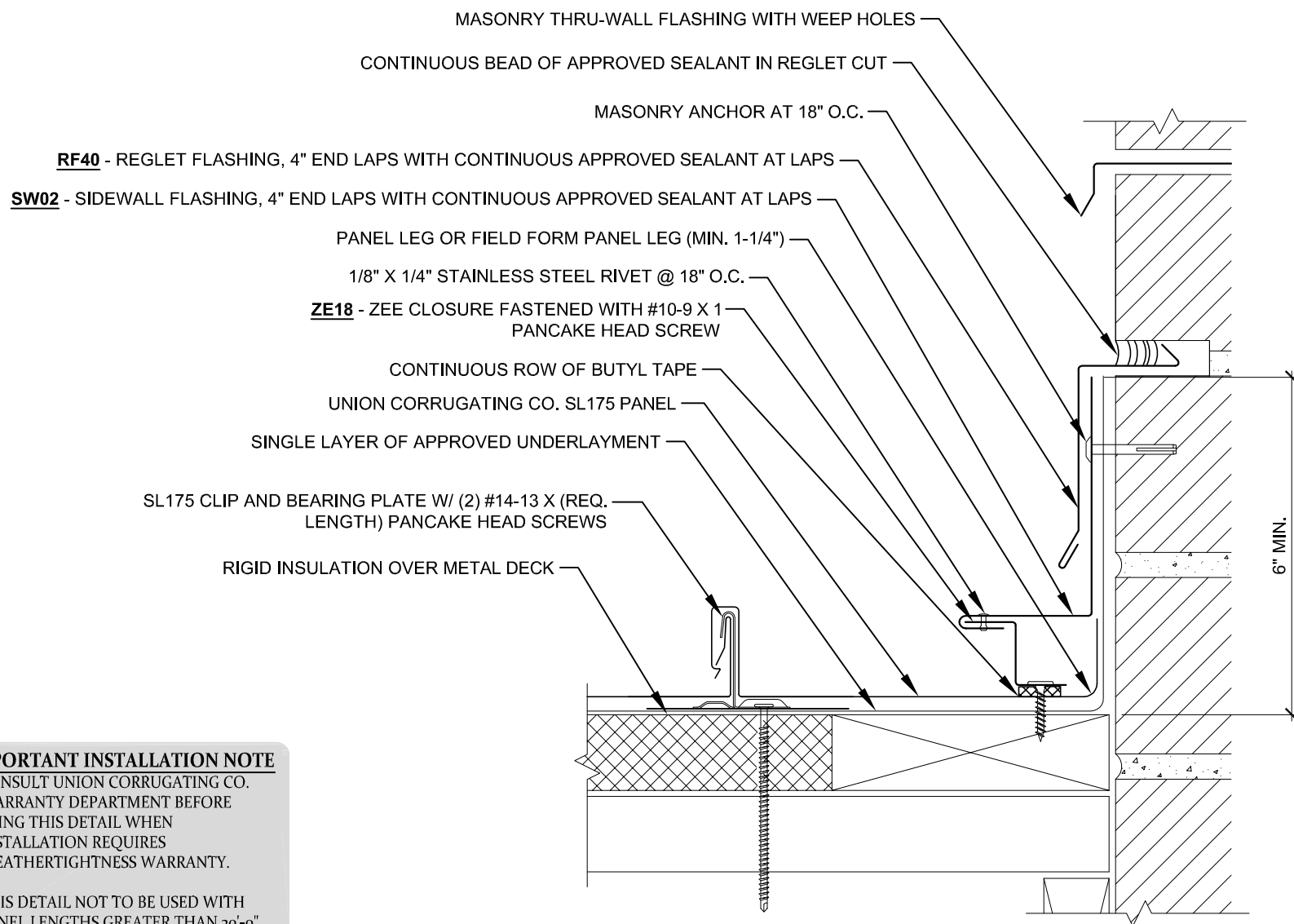


Description: **SIDEWALL DETAIL - WOOD FRAMING & SIDING**

Detail No.: **SL175-MD-7.23**

Substrate: **RIGID INSULATION OVER METAL DECK**

Project Name:
Location:



IMPORTANT INSTALLATION NOTE

- CONSULT UNION CORRUGATING CO. WARRANTY DEPARTMENT BEFORE USING THIS DETAIL WHEN INSTALLATION REQUIRES WEATHERTIGHTNESS WARRANTY.
- THIS DETAIL NOT TO BE USED WITH PANEL LENGTHS GREATER THAN 30'-0".



Description:

SIDEWALL W/ ZEE DETAIL - REGLET

Detail No.:

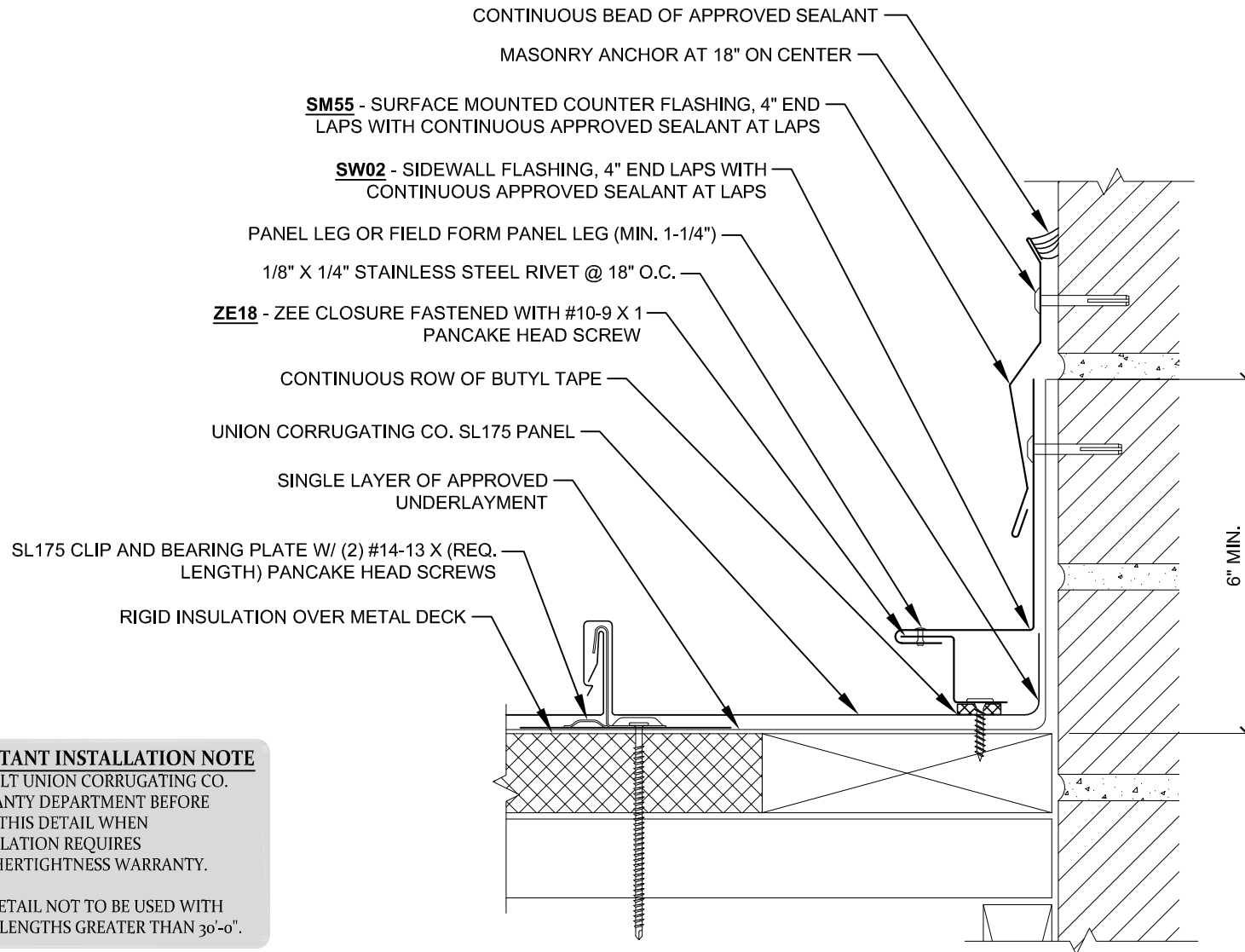
SL175-MD-7.31

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



IMPORTANT INSTALLATION NOTE

- CONSULT UNION CORRUGATING CO. WARRANTY DEPARTMENT BEFORE USING THIS DETAIL WHEN INSTALLATION REQUIRES WEATHERTIGHTNESS WARRANTY.
- THIS DETAIL NOT TO BE USED WITH PANEL LENGTHS GREATER THAN 30'-0".



Description:

SIDEWALL W/ ZEE DETAIL - SURFACE MOUNT

Substrate:

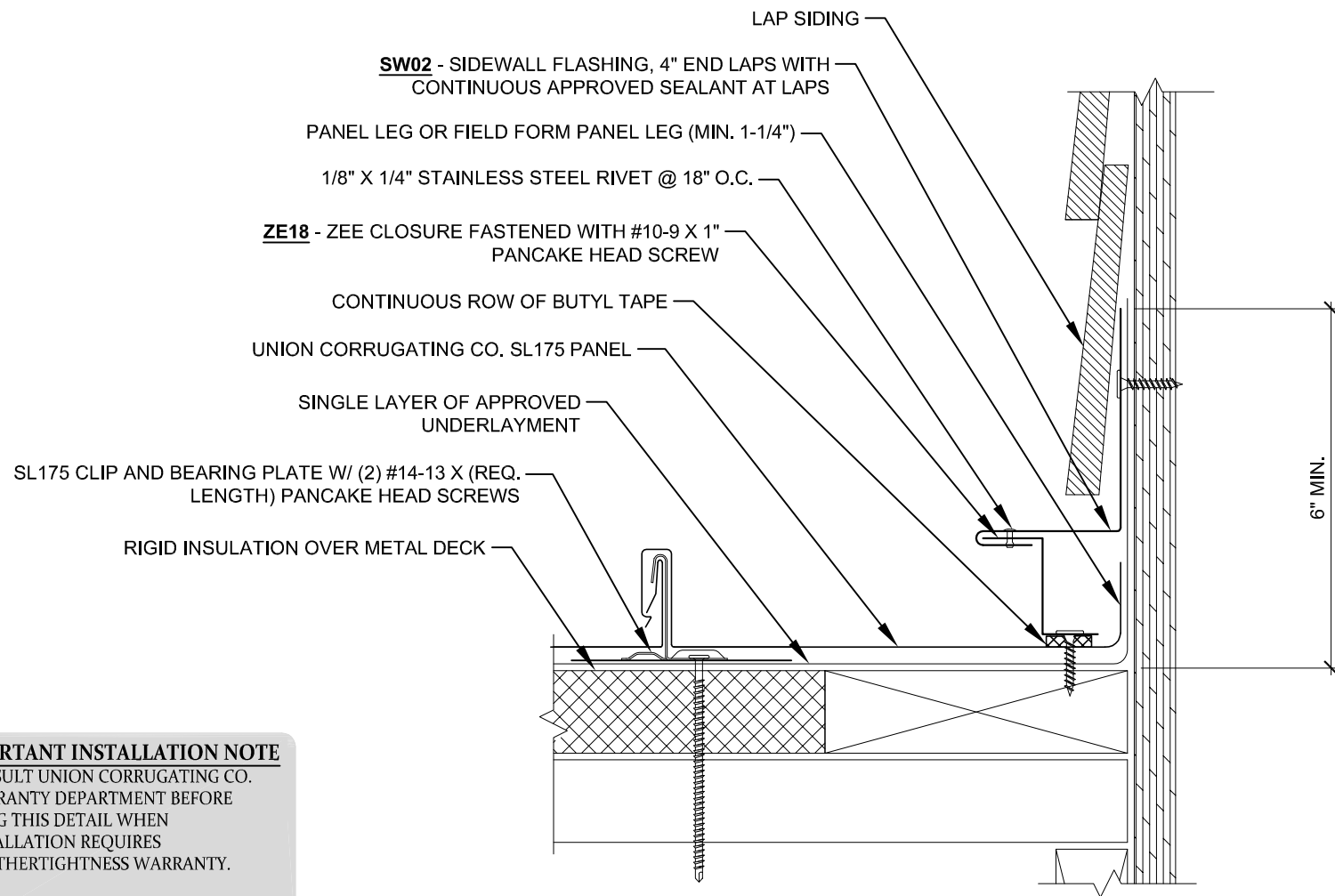
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL175-MD-7.32



IMPORTANT INSTALLATION NOTE

- CONSULT UNION CORRUGATING CO. WARRANTY DEPARTMENT BEFORE USING THIS DETAIL WHEN INSTALLATION REQUIRES WEATHERTIGHTNESS WARRANTY.
- THIS DETAIL NOT TO BE USED WITH PANEL LENGTHS GREATER THAN 30'-0".



Description:

SIDEWALL W/ ZEE - WOOD FRAMING & SIDING

Substrate:

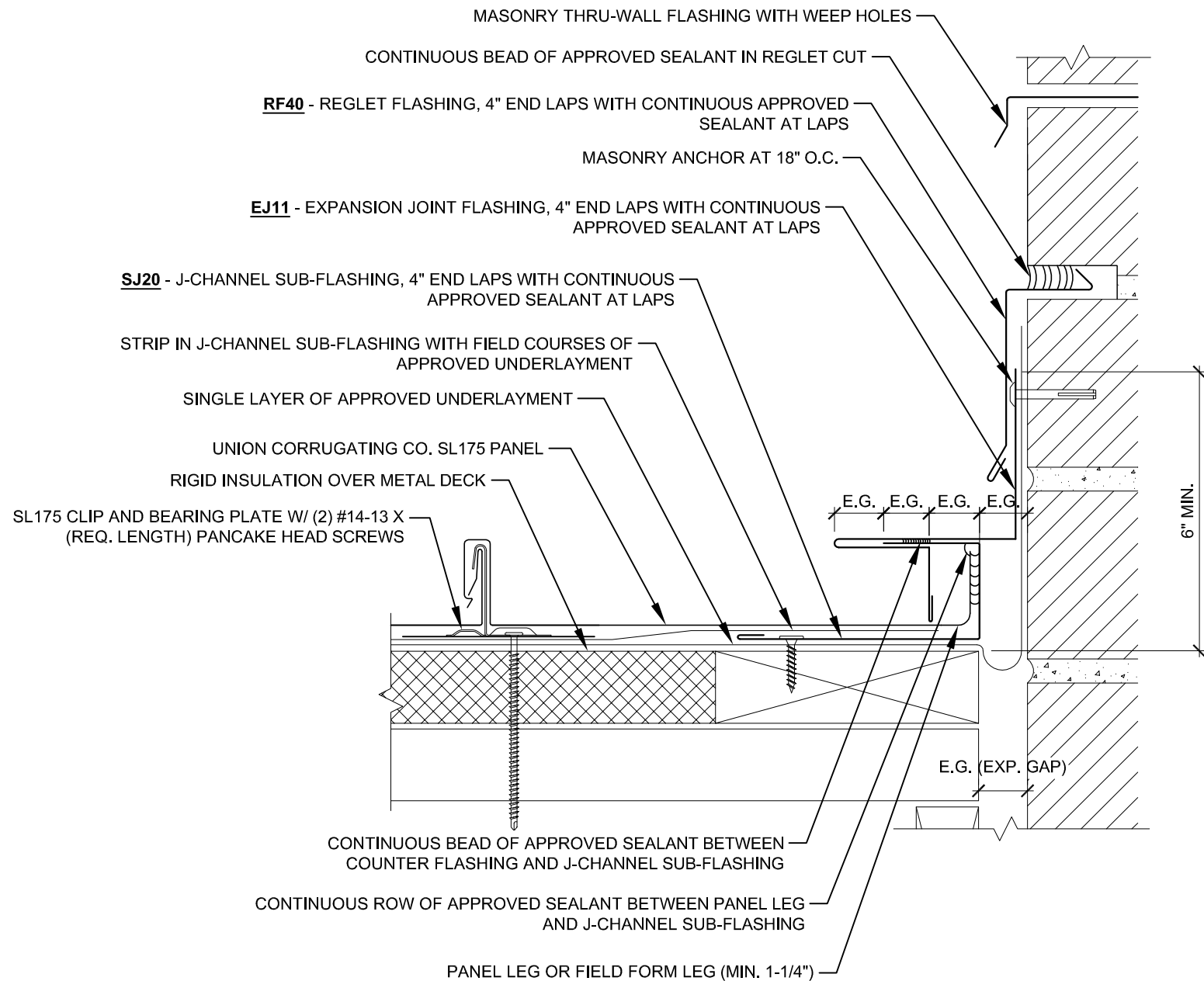
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL175-MD-7.33



Description:

SIDEWALL EXPANSION JOINT DETAIL

Detail No.:

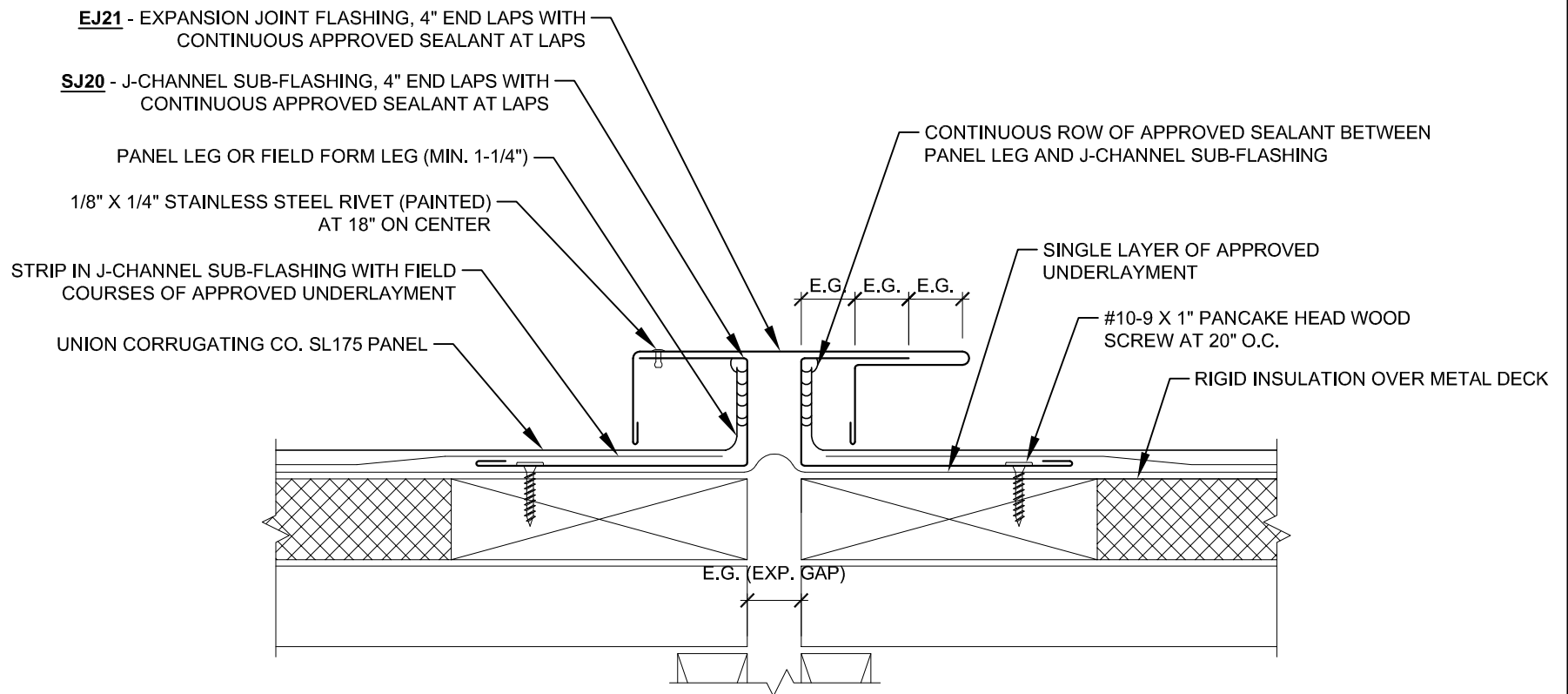
SL175-MD-7.40

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXPANSION JOINT (MID-ROOF)

Detail No.:

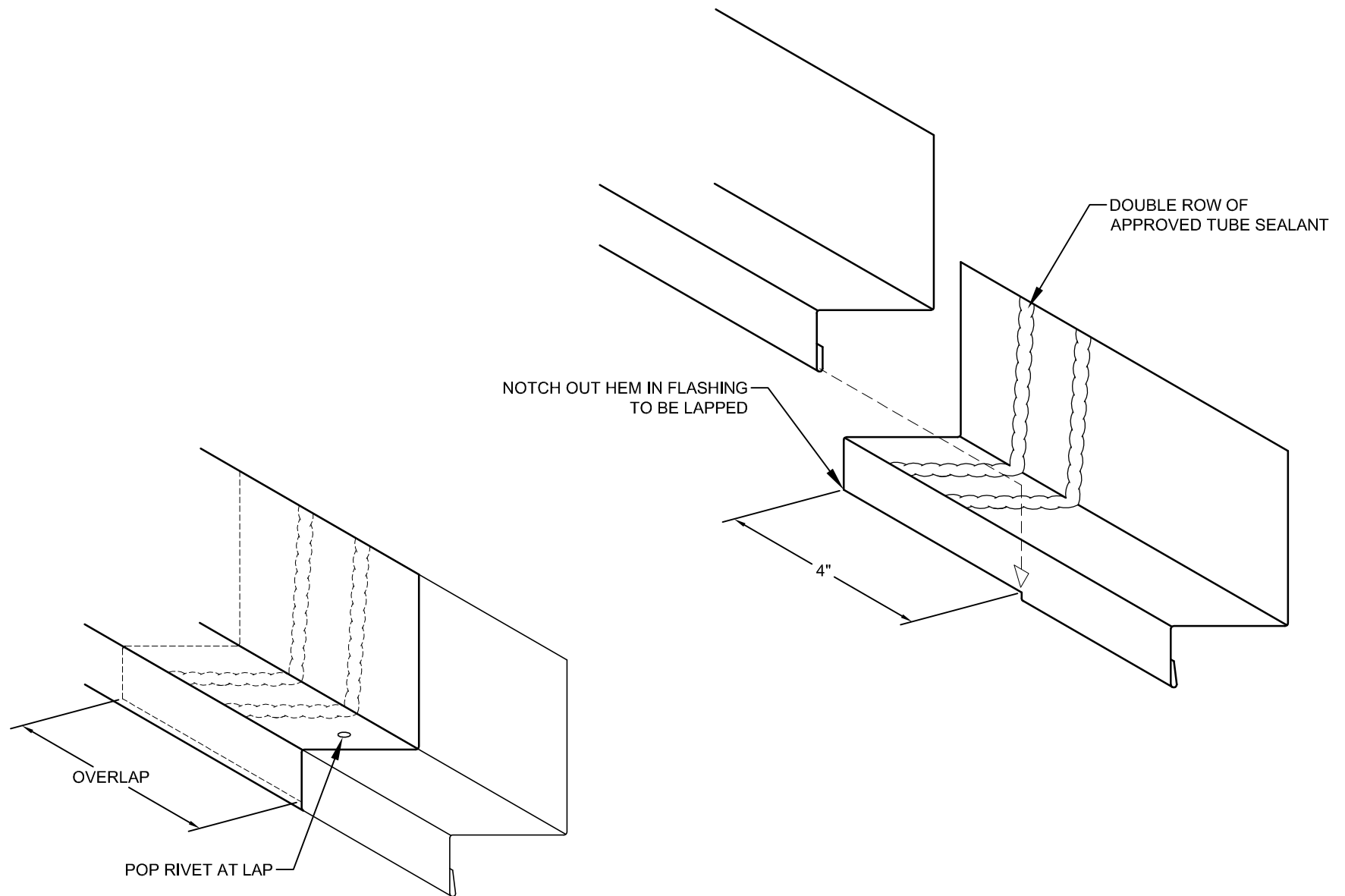
SL175-MD-7.50

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL LAP DETAIL

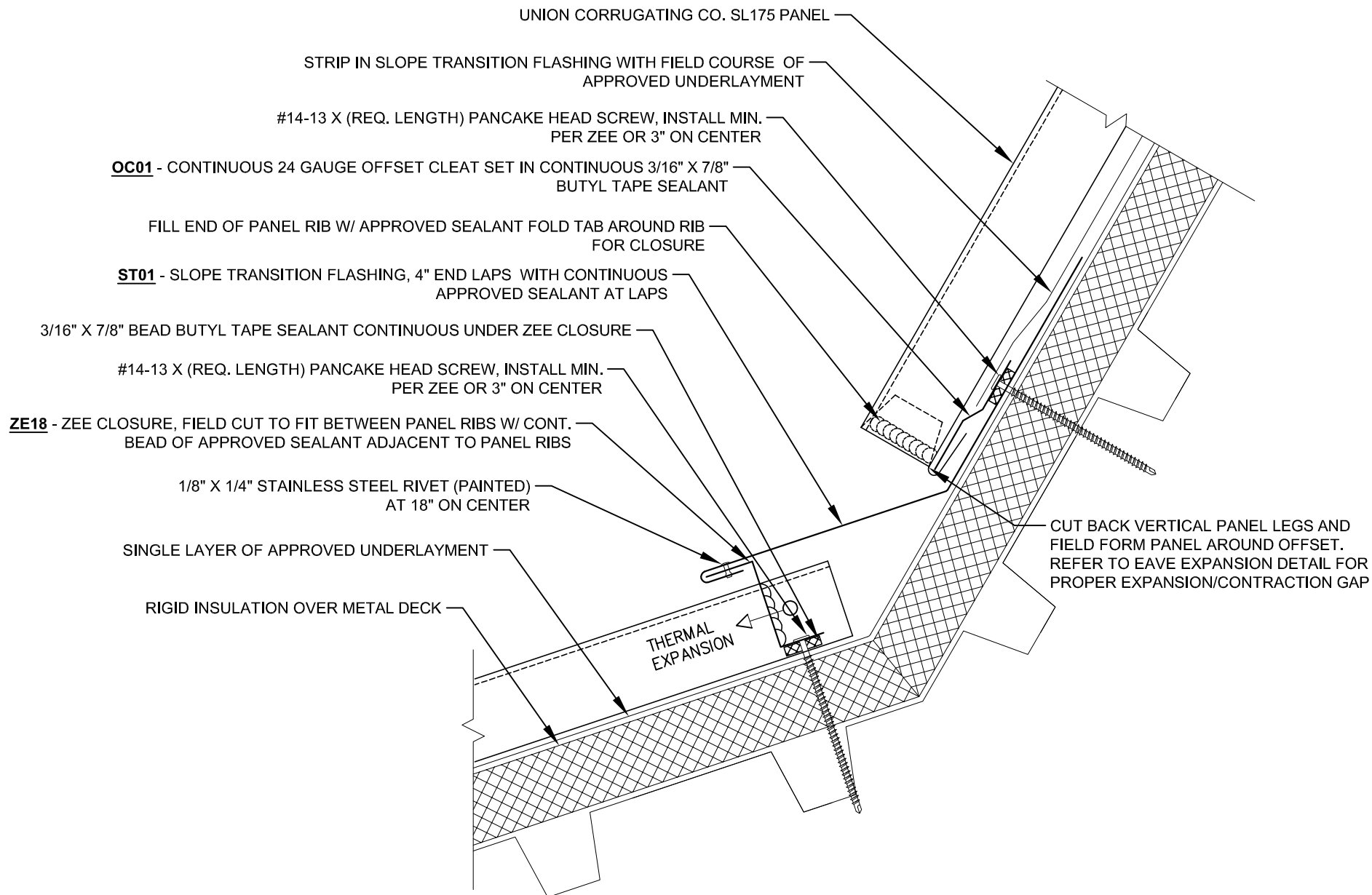
Detail No.:

SL175-7.90

Substrate:

Project Name:

Location:



Description:

SLOPE TRANSITION DETAIL

Detail No.:

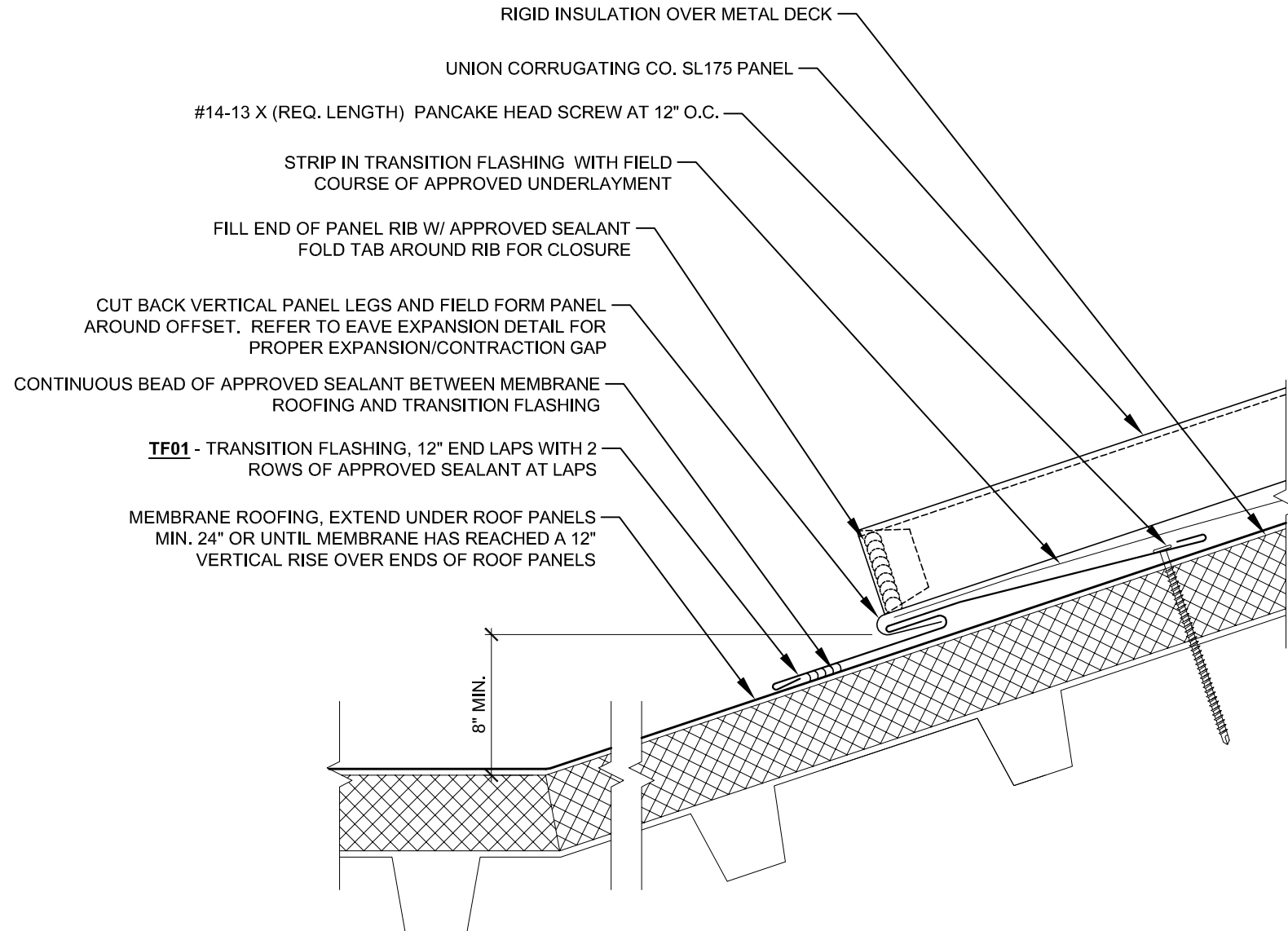
SL175-MD-8.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

TRANSITION AT MEMBRANE ROOFING

Detail No.:

SL175-MD-8.20

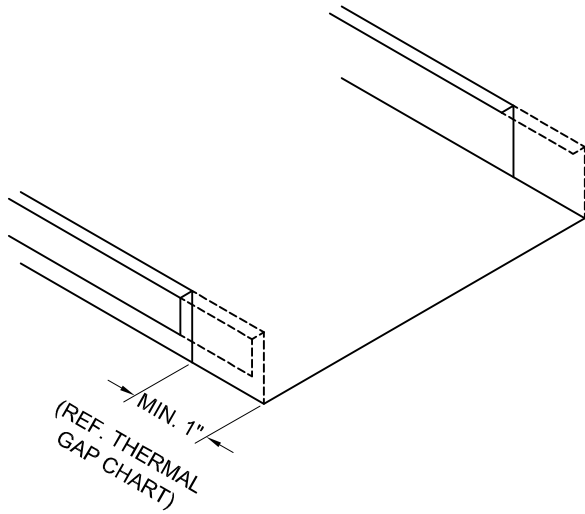
Substrate:

RIGID INSULATION OVER METAL DECK

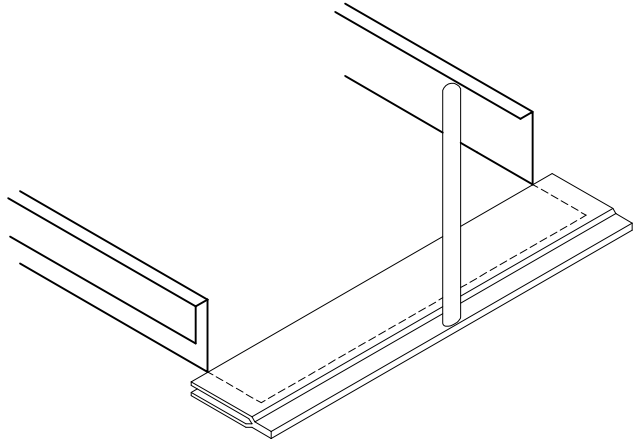
Project Name:

Location:

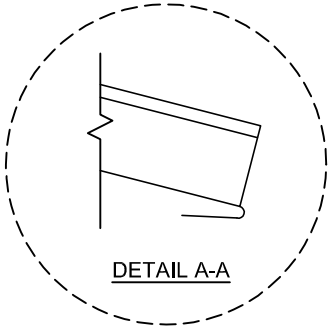
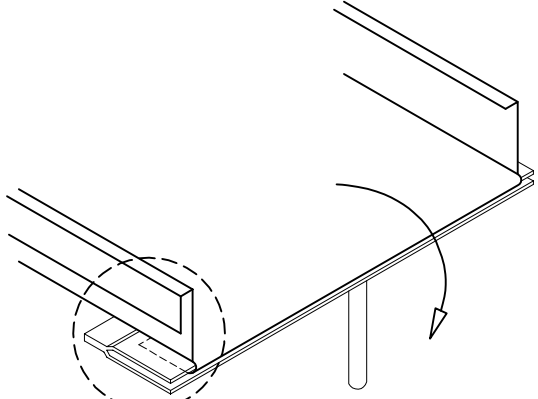
STEP 1: FIELD NOTCH RIBS AND REMOVE



STEP 2: ENGAGE PANEL HEMMING TOOL OVER FLAT PART OF PANEL TO ACCEPT OFFSET CLEAT



STEP 3: BEND TO FORM OPEN HEM



SEE DETAIL A-A



Description:

FIELD HEMMING PANEL END

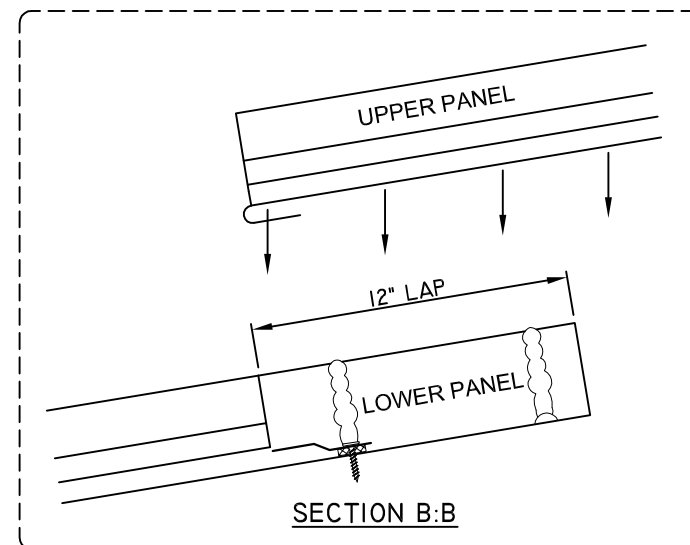
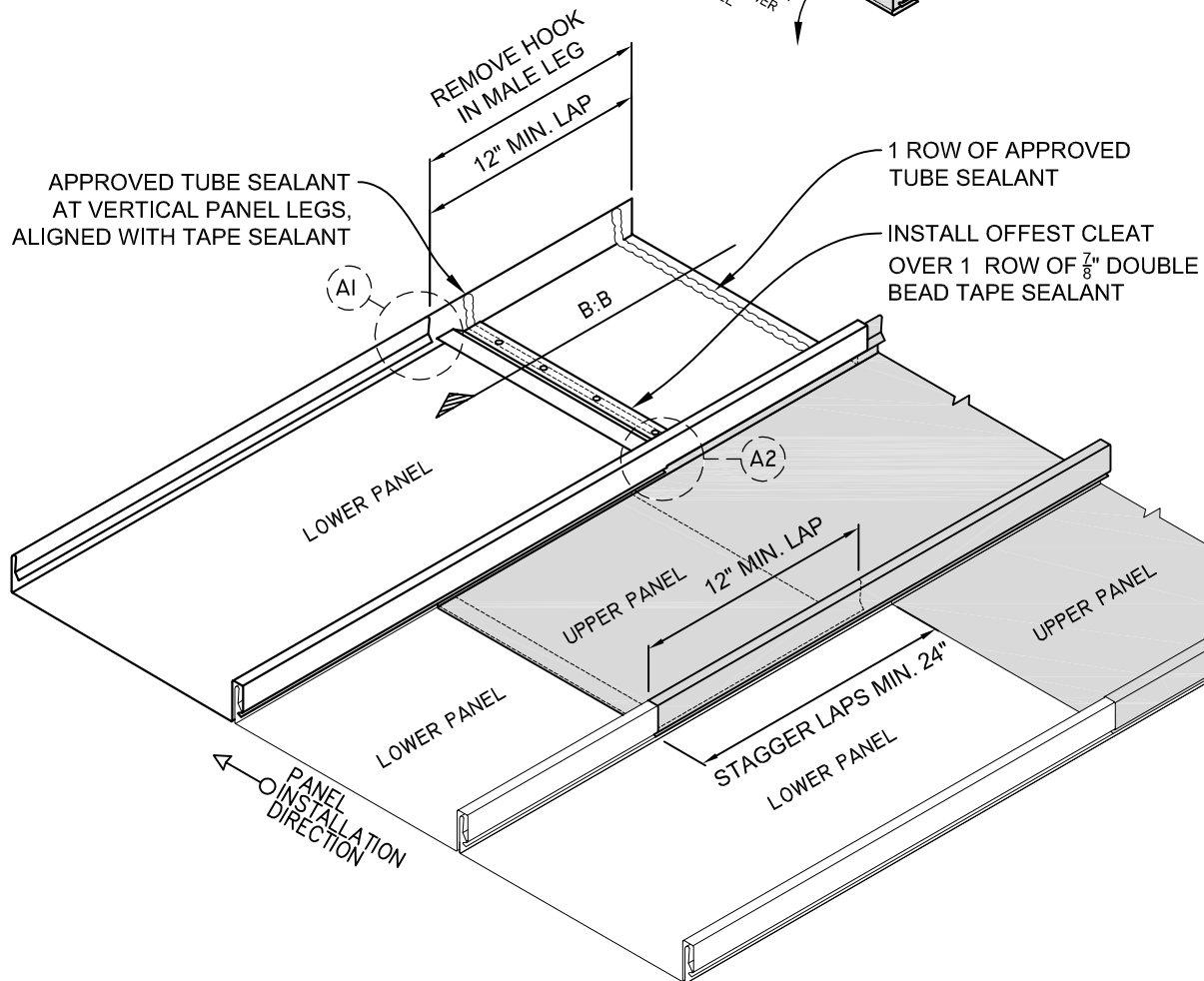
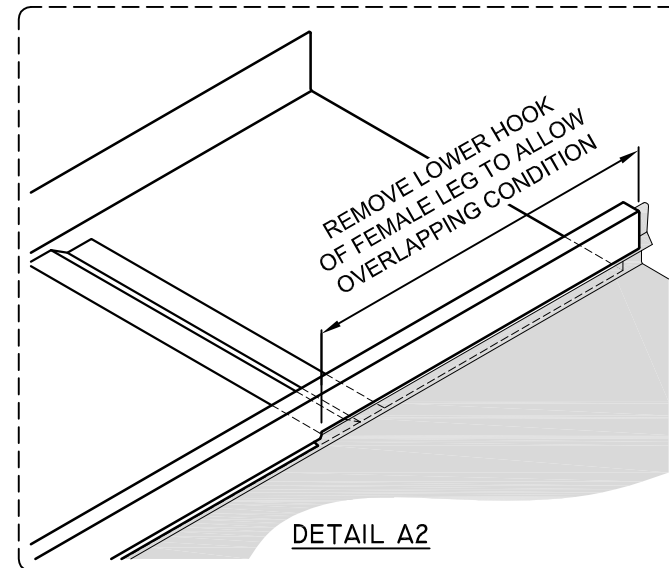
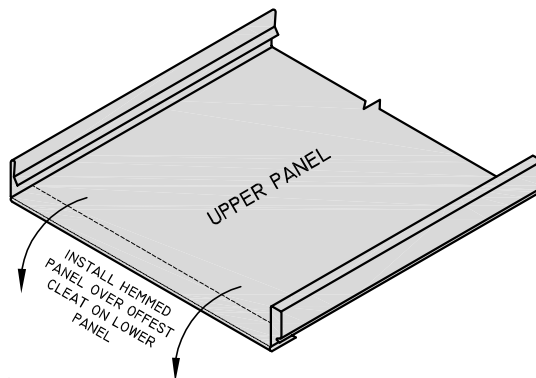
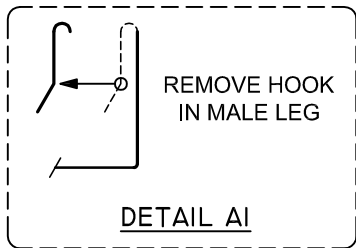
Detail No.:

SL175-10.10

Substrate:

Project Name:

Location:



Description:

PANEL LAP DETAIL - STEEP SLOPE

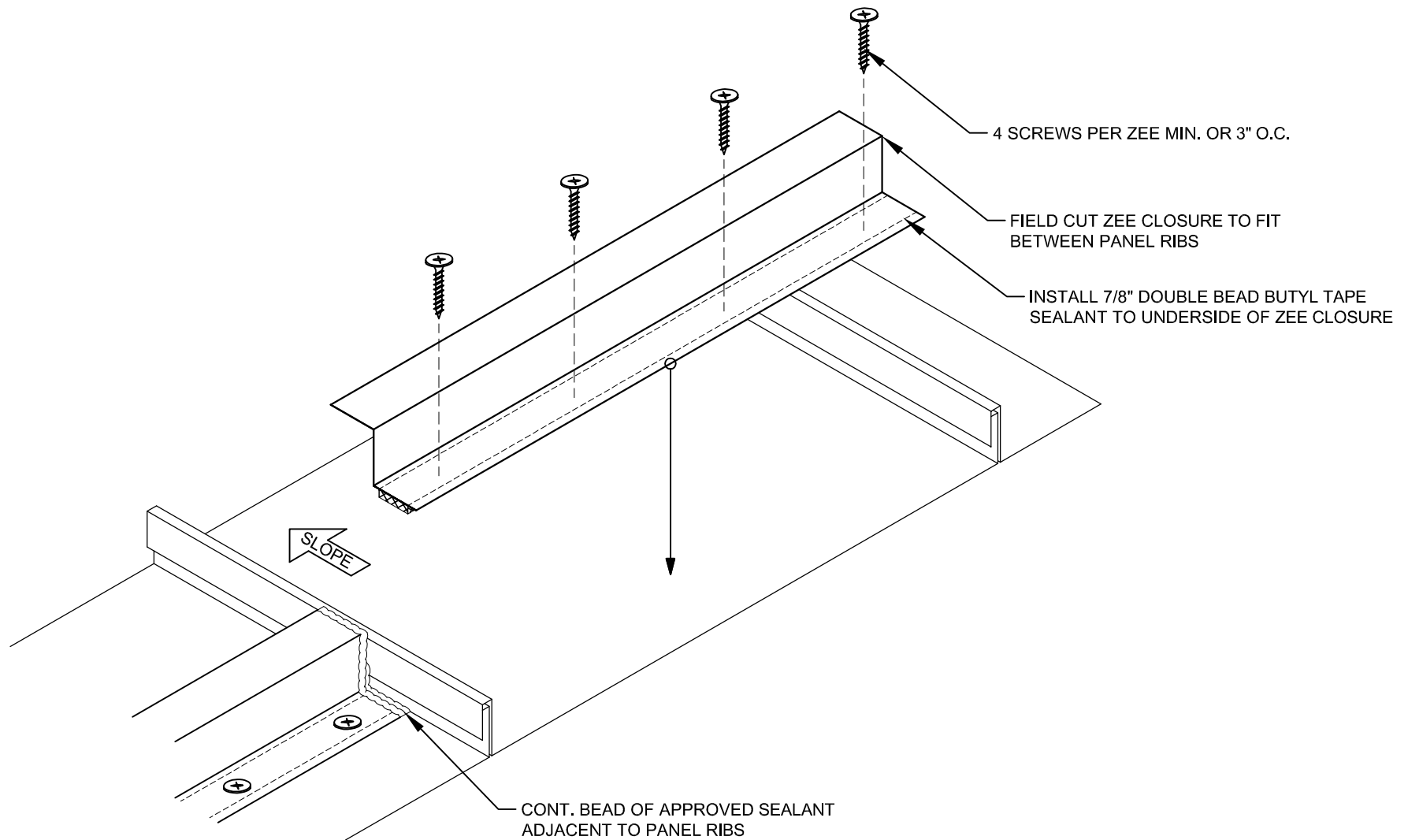
Detail No.:

SL175-LAP-10.15

Substrate:

Project Name:

Location:



Description:

ZEE CLOSURE INSTALLATION

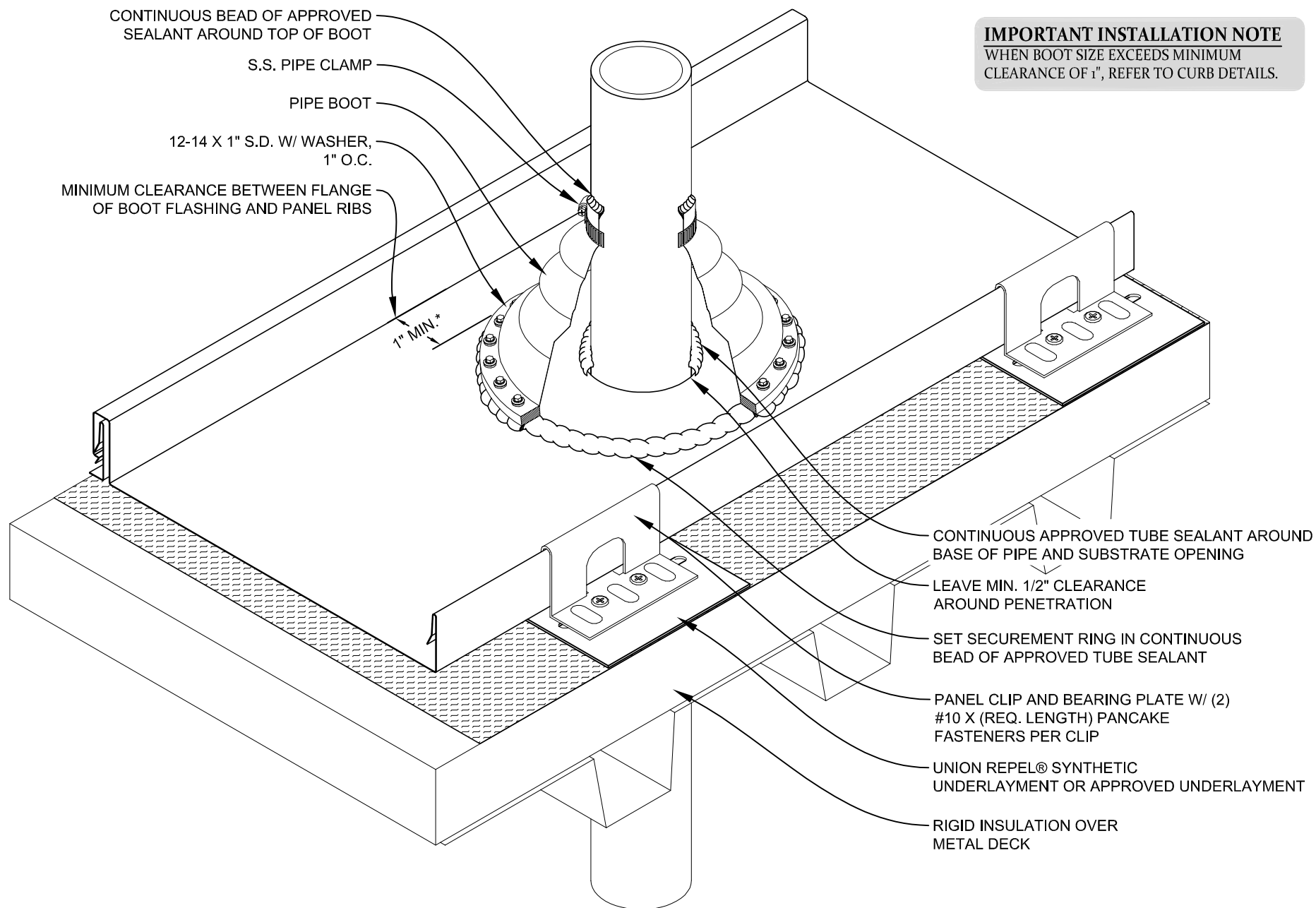
Detail No.:

SL175-10.20

Substrate:

Project Name:

Location:



Description:

PIPE PENETRATION

Detail No.:

SL175-MD-10.30

Substrate:

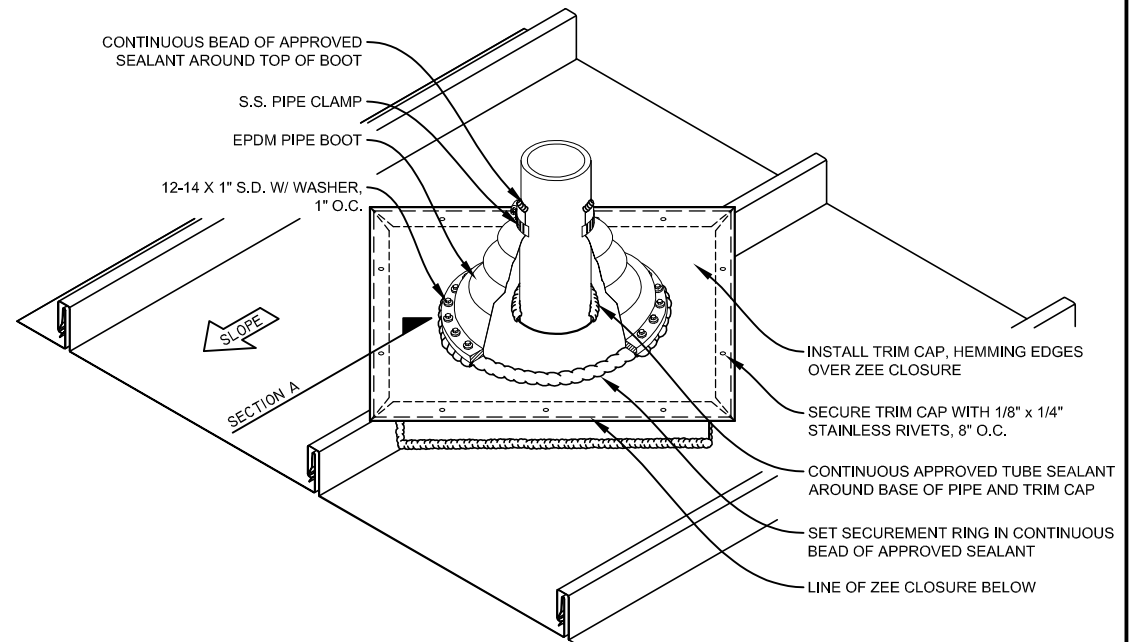
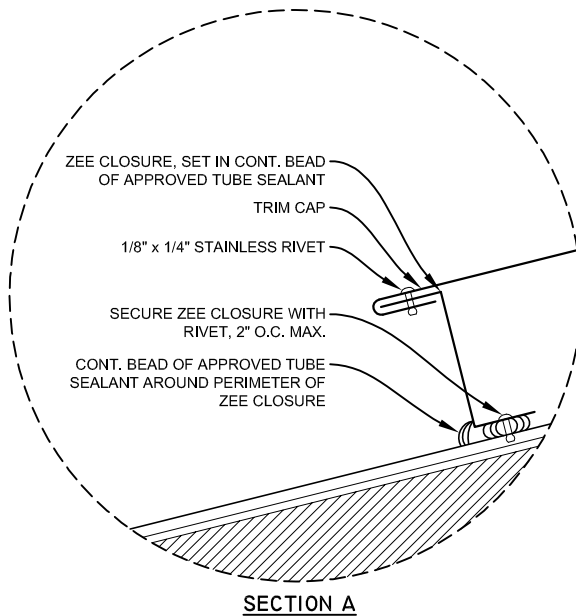
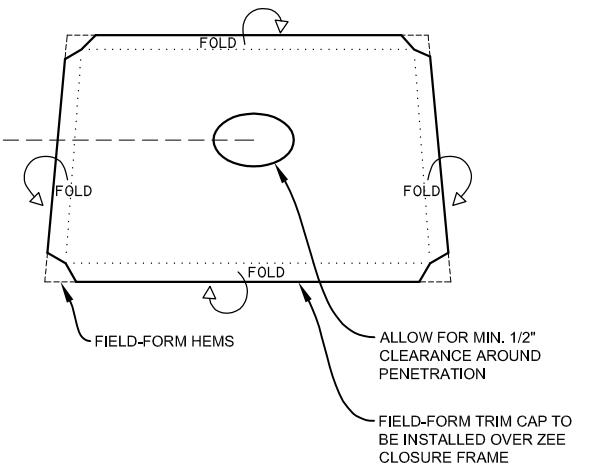
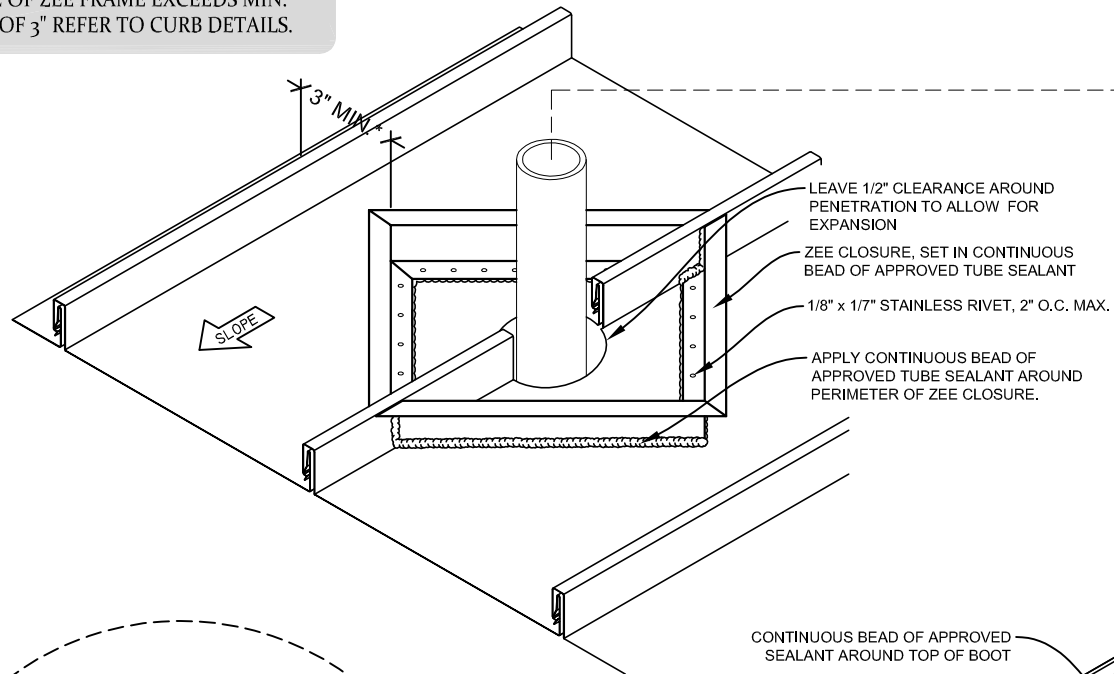
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

IMPORTANT INSTALLATION NOTE

*WHEN BASE OF ZEE FRAME EXCEEDS MIN. CLEARANCE OF 3" REFER TO CURB DETAILS.



Description:

PIPE PENETRATION THROUGH PANEL RIB

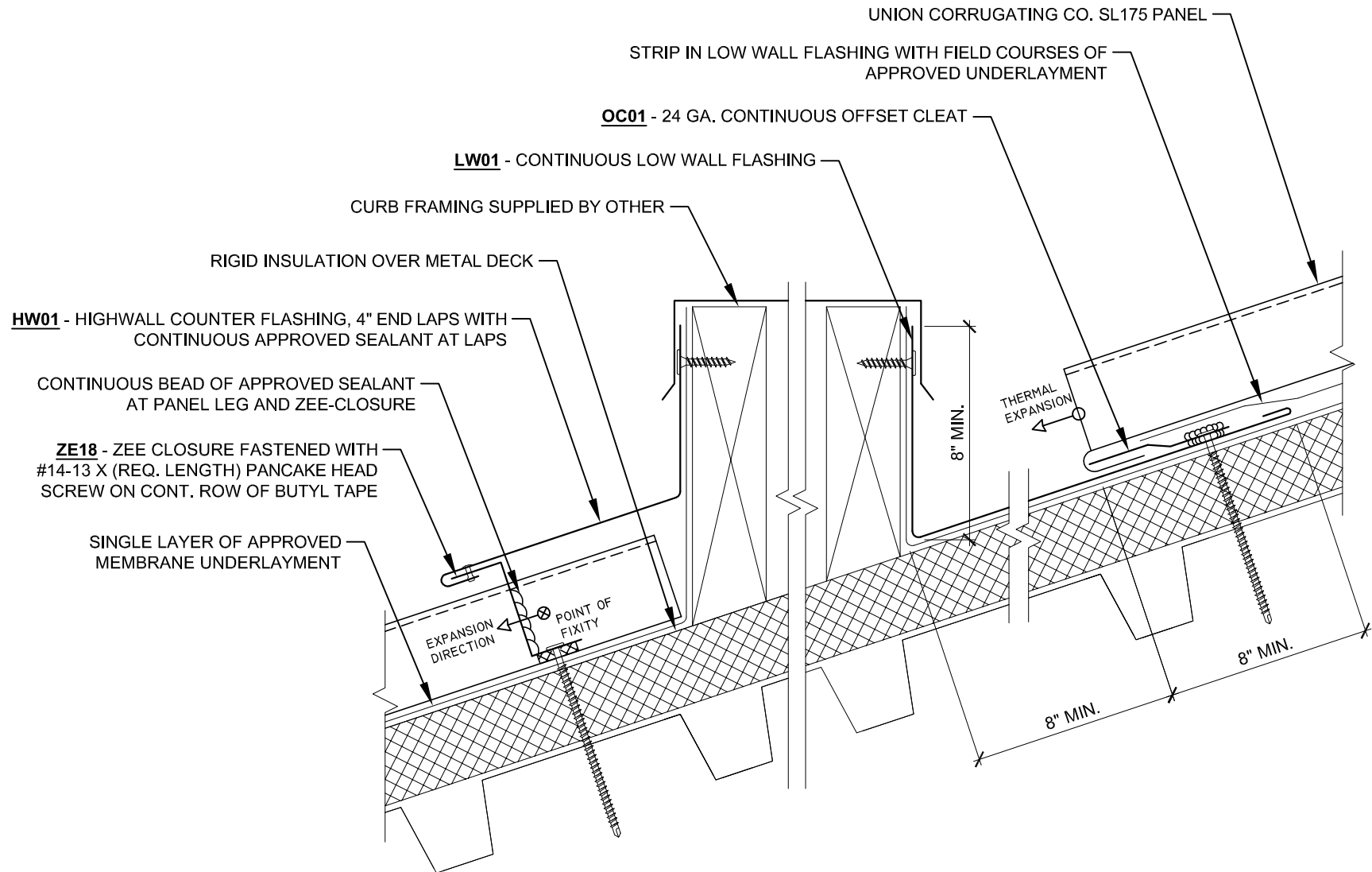
Detail No.:

SL175-10.31

Substrate:

Project Name:

Location:



Description:

LOW WALL & HIGHWALL @ SQUARE PENETRATION

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL175-MD-10.40

SW02 - SIDEWALL COUNTER FLASHING, 4" END LAPS
WITH CONTINUOUS APPROVED SEALANT AT LAPS

PANEL LEG OR FIELD FORM PANEL LEG (MIN. 1-1/4")

ZE18 - ZEE CLOSURE FASTENED WITH #14-13 X
(REQ. LENGTH) PANCAKE HEAD SCREW

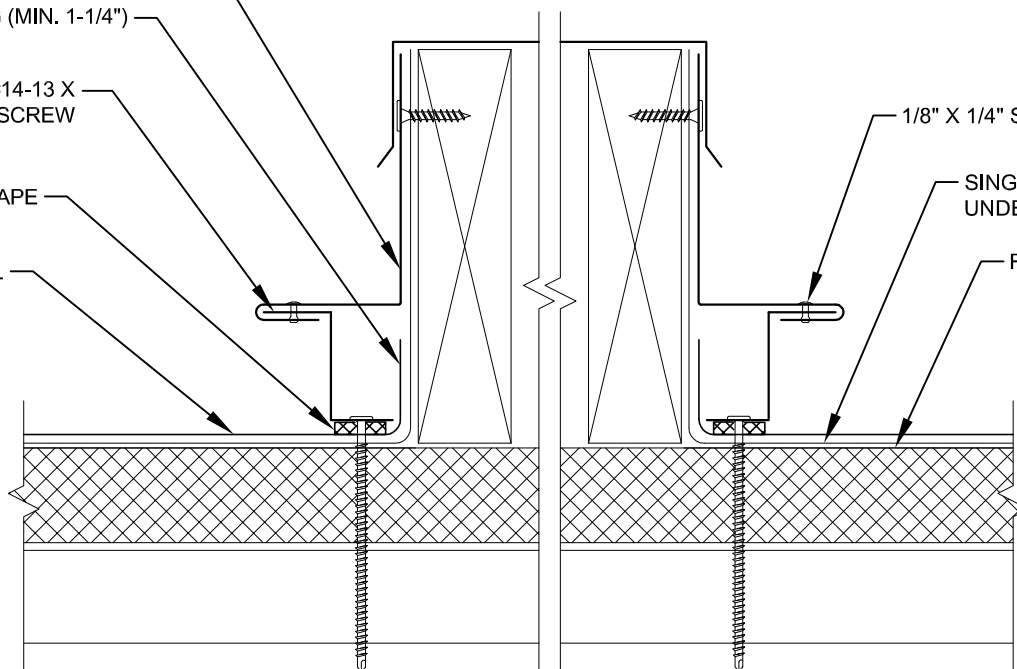
CONTINUOUS ROW OF BUTYL TAPE

UNION CORRUGATING CO. PANEL

1/8" X 1/4" STAINLESS STEEL RIVET

SINGLE LAYER OF APPROVED
UNDERLAYMENT

RIGID INSULATION OVER METAL DECK



Description:

SIDEWALL @ SQUARE PENETRATION

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

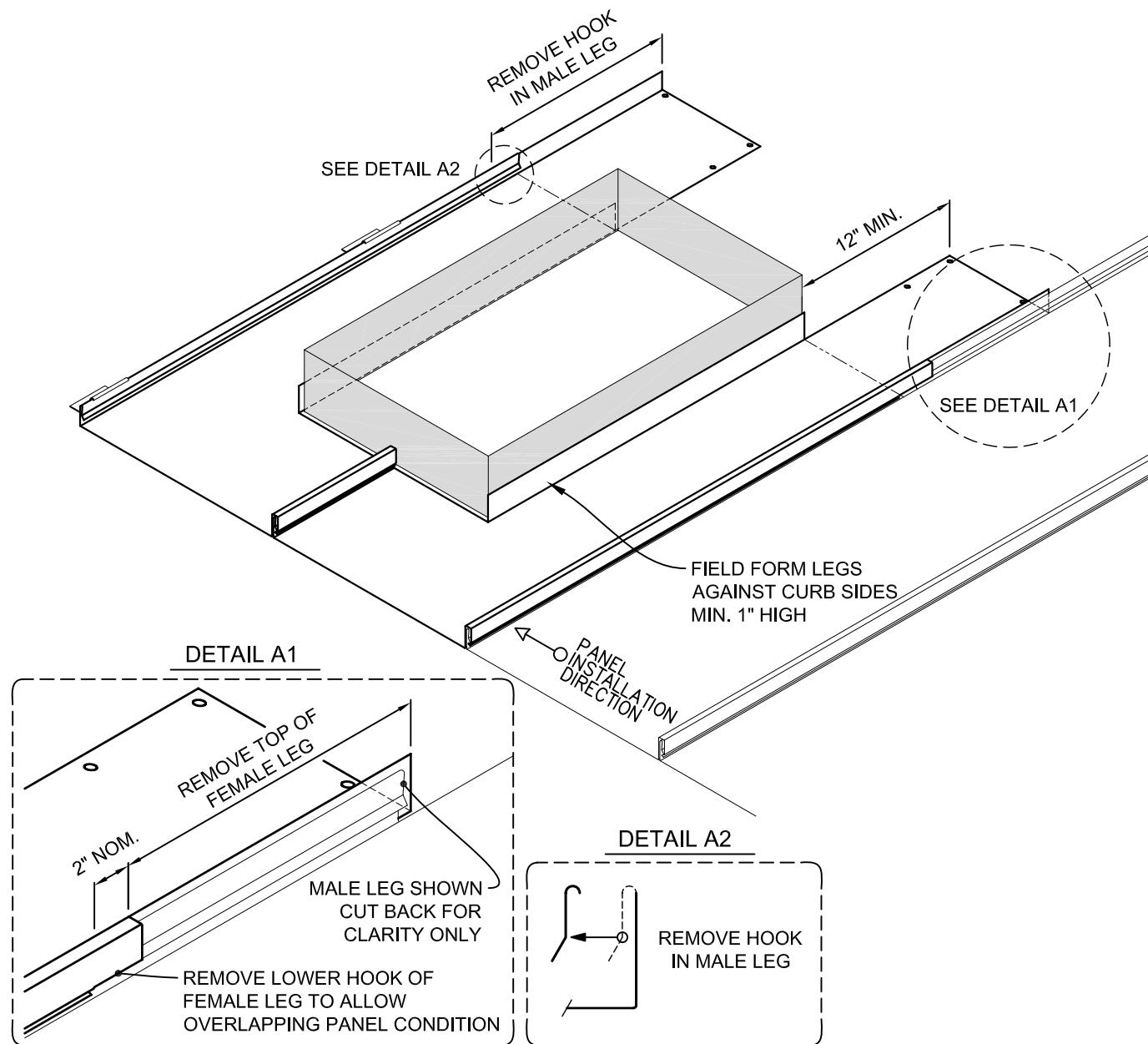
Location:

Detail No.:

SL175-MD-10.41

STEP I

INSTALL PANELS
AROUND CURB.



Description:

SL175 CURB DETAILS - STEP I

Detail No.:

SL175-CRB: 1 of 6

Substrate:

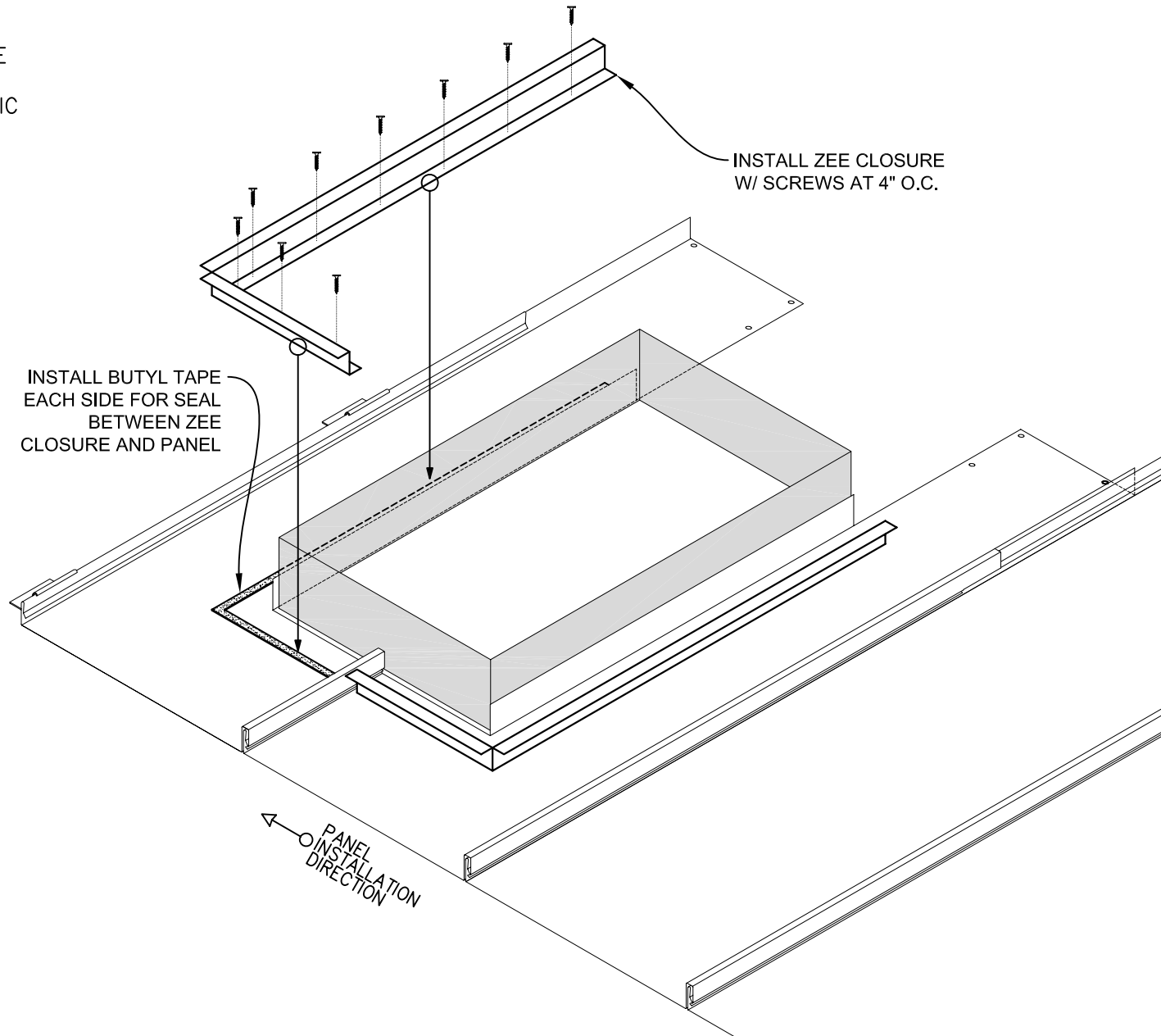
GENERAL INFORMATION

Project Name:

Location:

STEP 2

APPLY ZEE CLOSURE
FLASHING OVER
DOUBLE BEAD MASTIC



Description:

SL175 CURB DETAILS - STEP 2

Detail No.:

SL175-CRB: 2 of 6

Substrate:

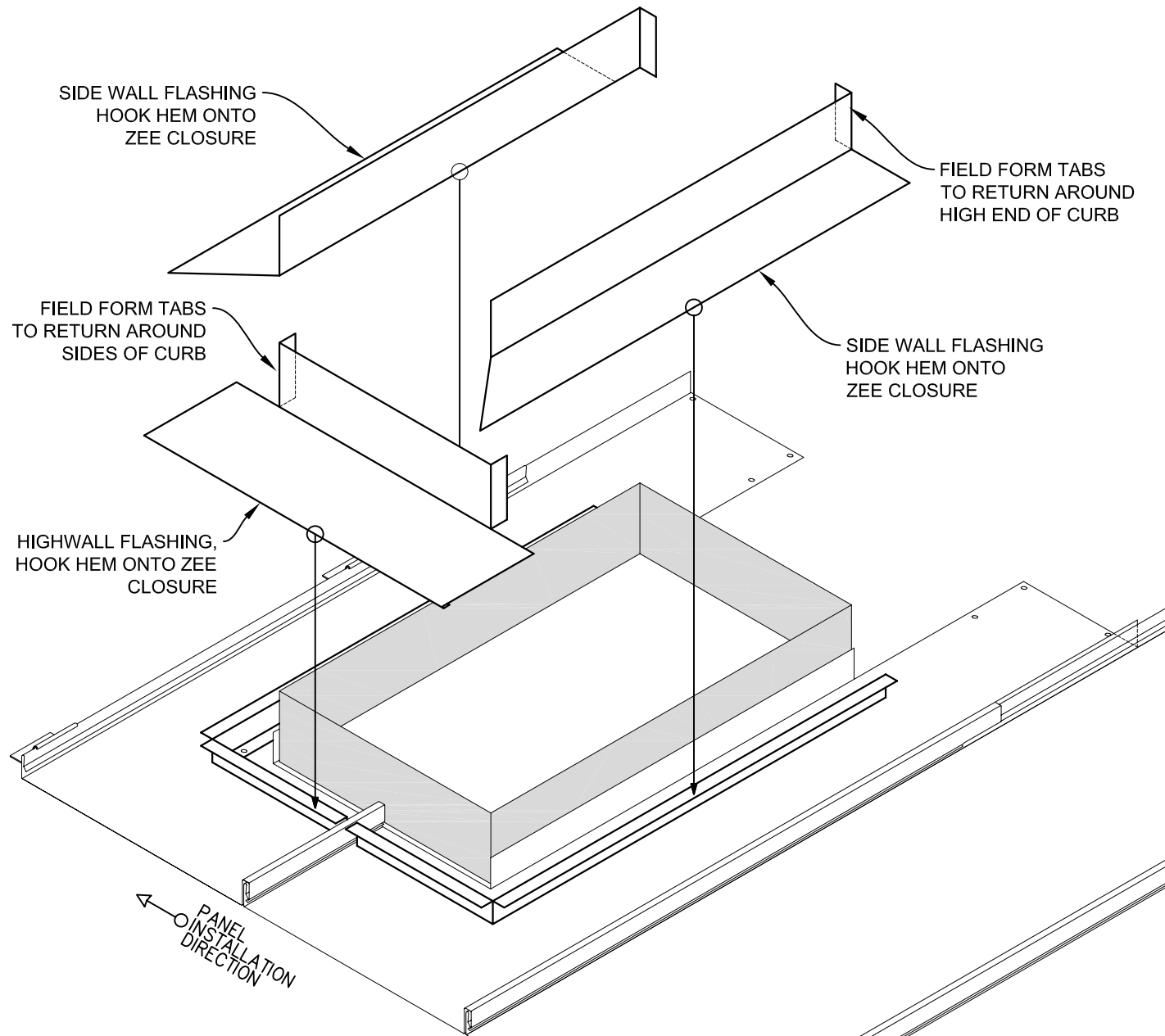
GENERAL INFORMATION

Project Name:

Location:

STEP 3

INSTALL SIDEWALL
AND HIGH WALL FLASHINGS
ATOP ZEE CLOSURE.



Description:

SL175 CURB DETAILS - STEP 3

Detail No.:

SL175-CRB: 3 of 6

Substrate:

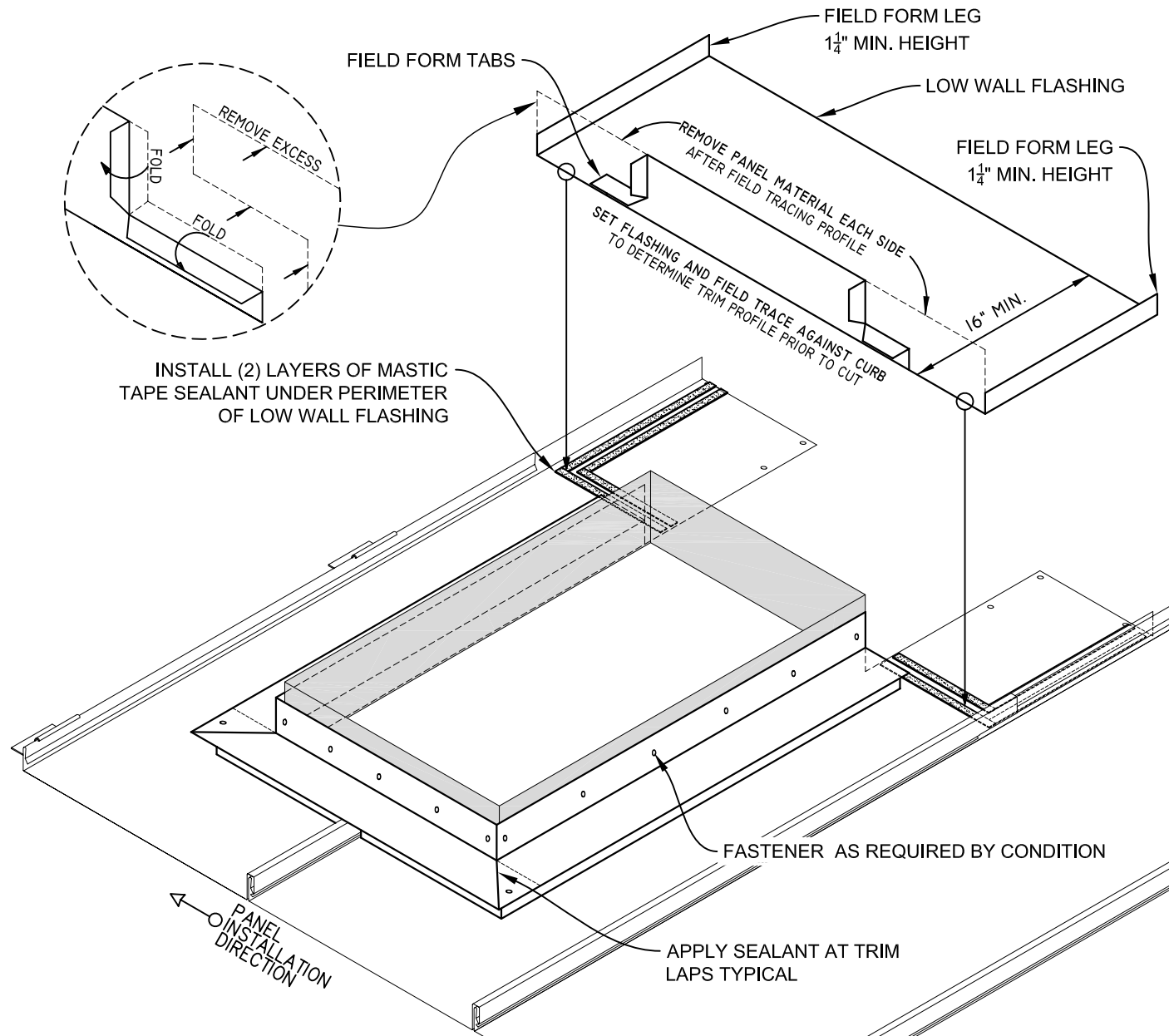
GENERAL INFORMATION

Project Name:

Location:

STEP 4

INSTALL LOW
WALL FLASHING



Description:

SL175 CURB DETAILS - STEP 4

Detail No.:

SL175-CRB: 4 of 6

Substrate:

GENERAL INFORMATION

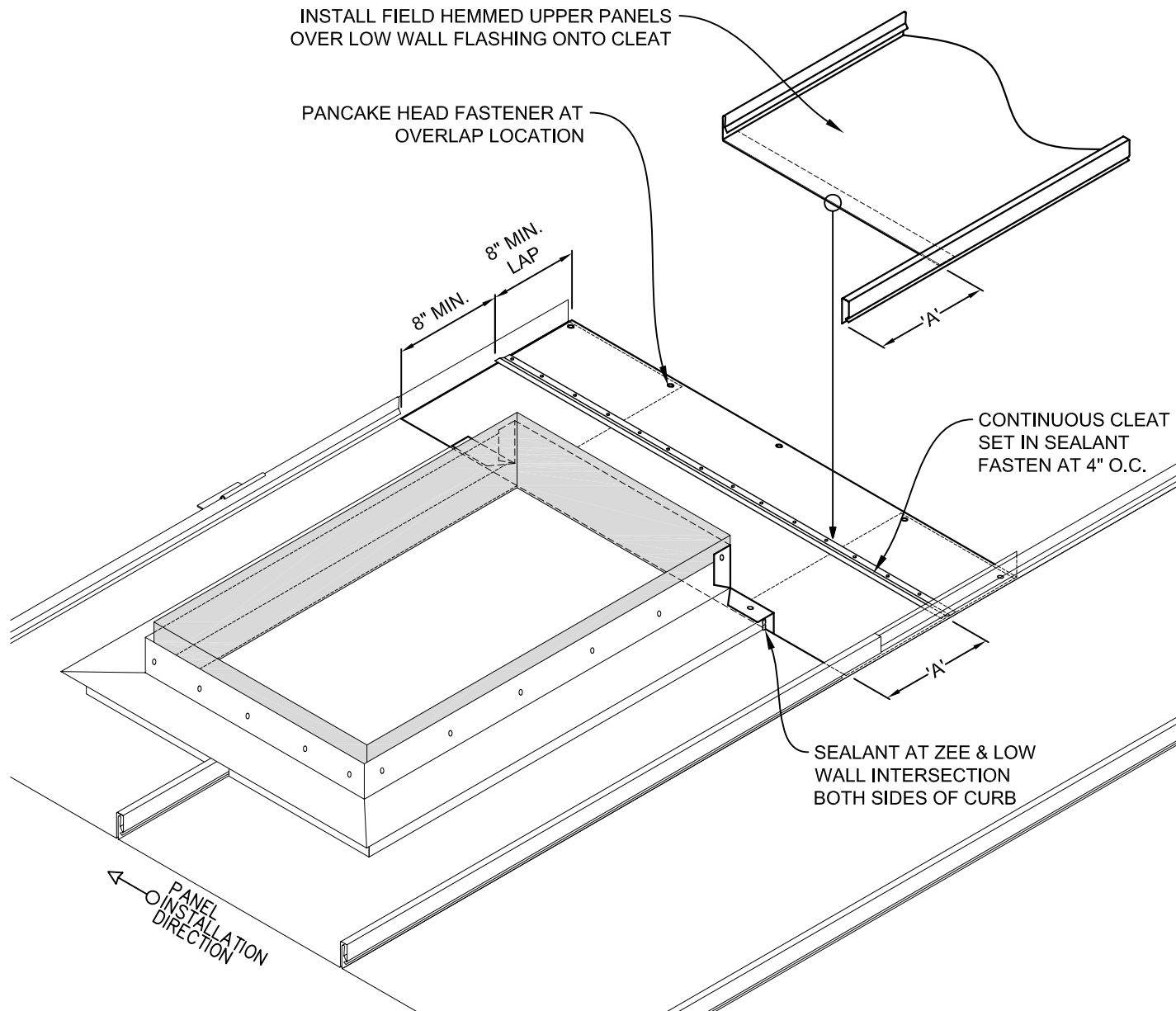
Project Name:

Location:

2016-0106

STEP 5

INSTALL CLEAT AND
PREPARE FOR UPPER
PANEL INSTALLATION.



Description:

SL175 CURB DETAILS - STEP 5

Detail No.:

SL175-CRB: 5 of 6

Substrate:

GENERAL INFORMATION

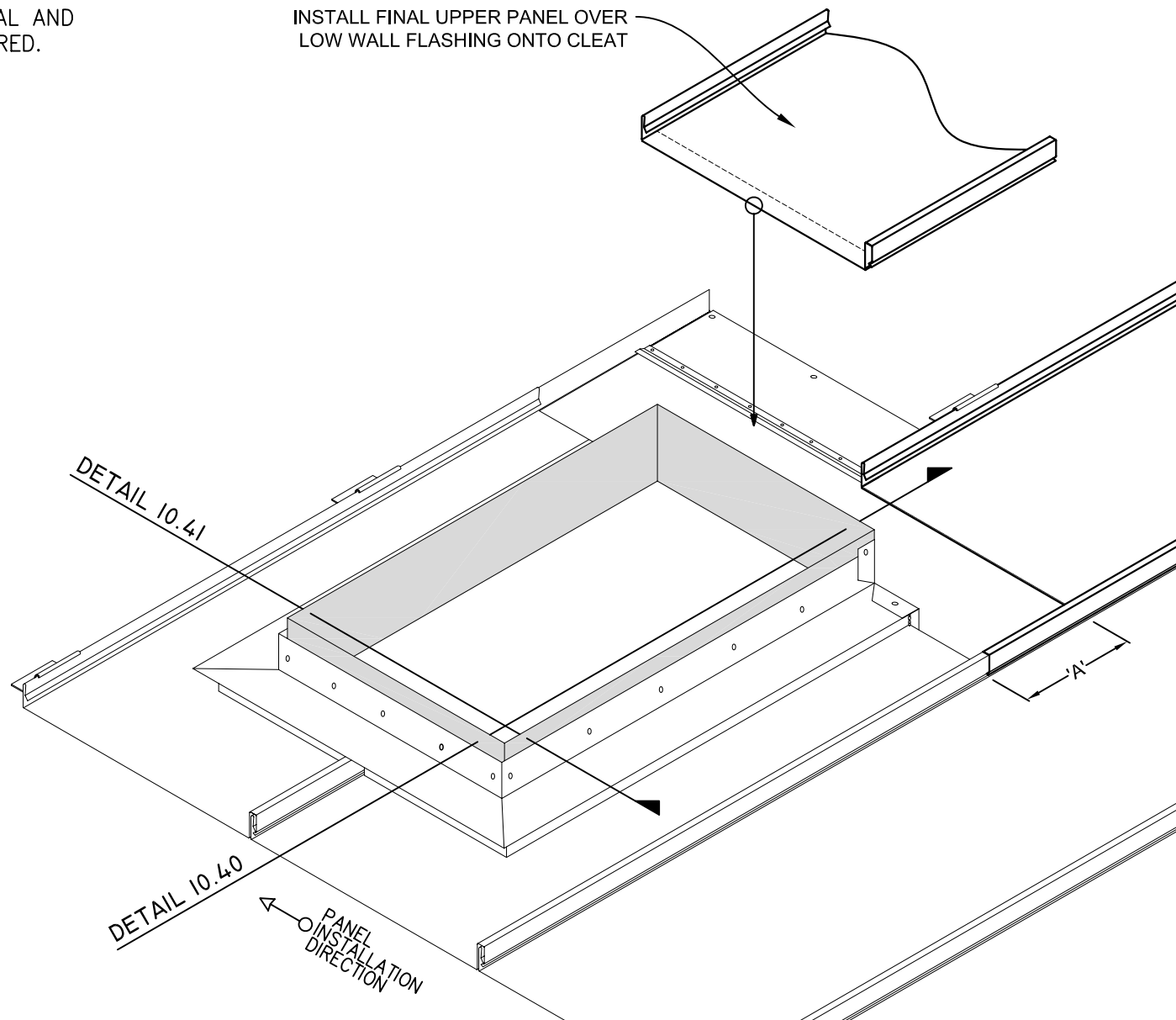
Project Name:

Location:

STEP 6

INSTALL FINAL SEAL AND
FASTEN AS REQUIRED.

INSTALL FINAL UPPER PANEL OVER
LOW WALL FLASHING ONTO CLEAT



Description:

SL175 CURB DETAILS - STEP 6

Detail No.:

SL175-CRB: 6 of 6

Substrate:

GENERAL INFORMATION

Project Name:

Location: