

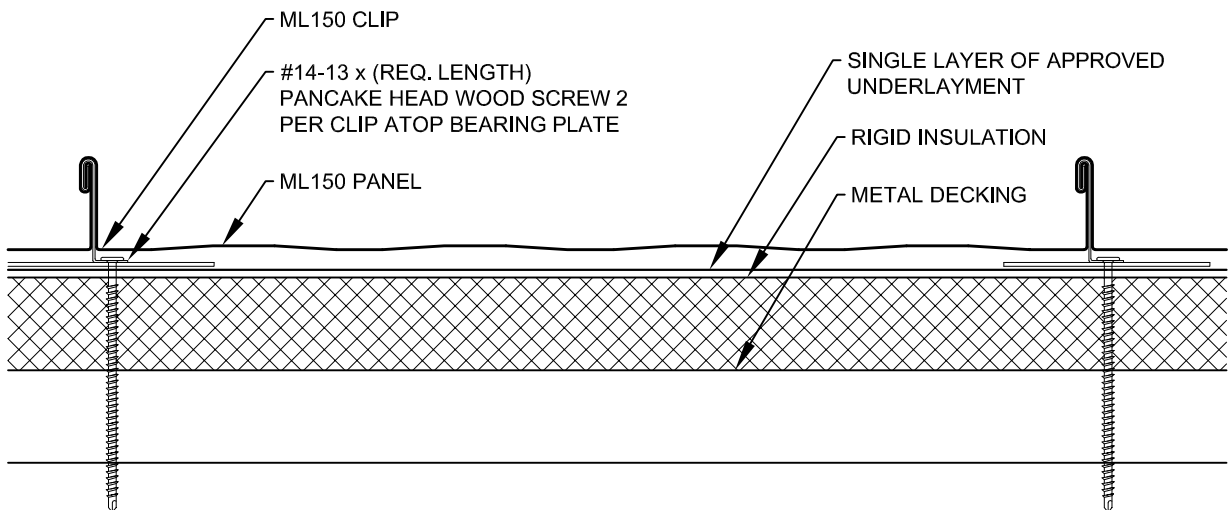


ML150 Standing Seam

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
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877-615-9812

OKLAHOMA CITY, OK
866-373-5286

SCRANTON, PA
866-695-6455

www.unlonmetalroofing.com



ML150 Standing Seam -Rigid Insulation Over Metal Deck-

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(Continued...)



ML150 Standing Seam -Rigid Insulation Over Metal Deck-

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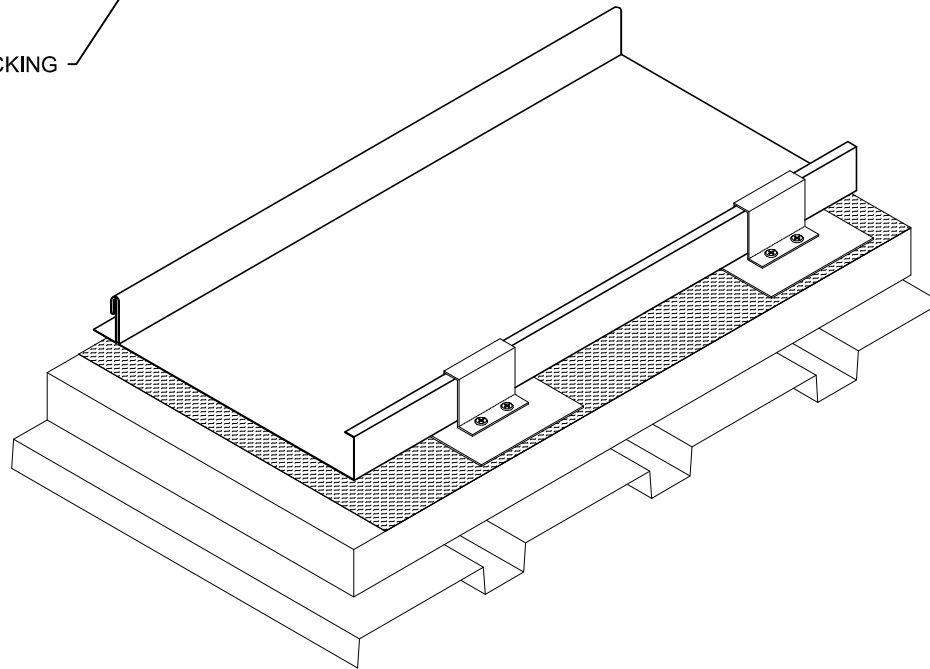
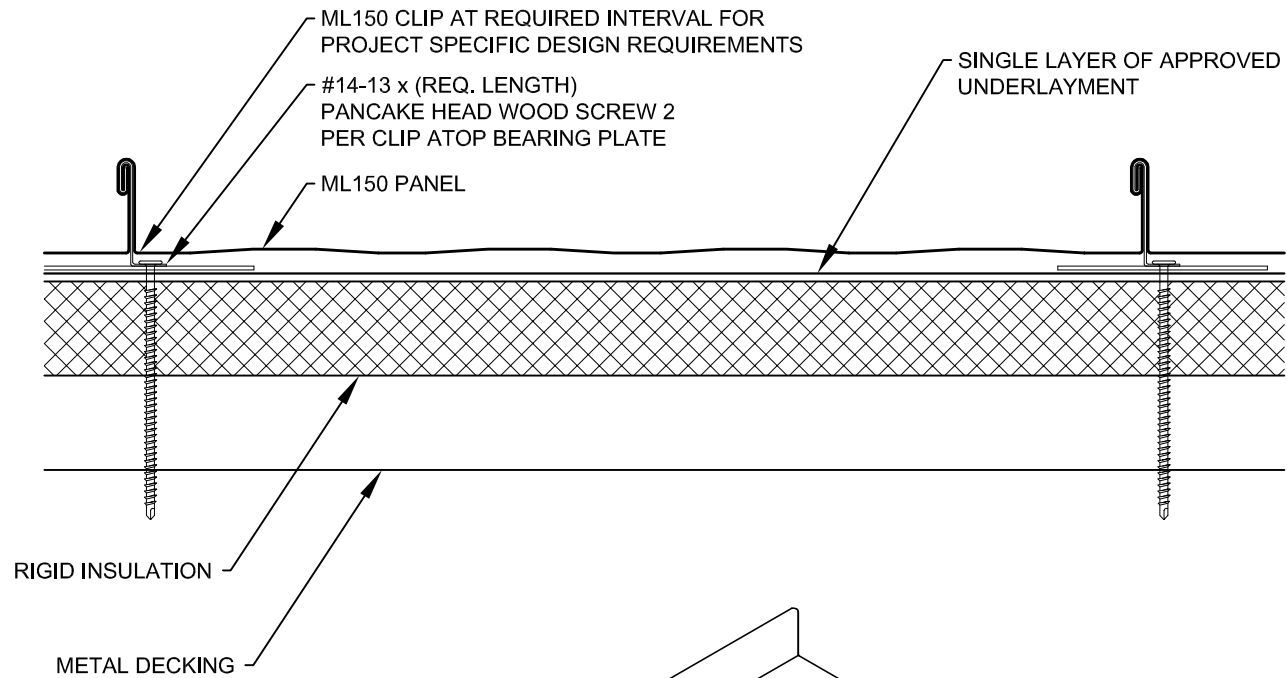
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Description:

ML150 APPLICATION

Detail No.:

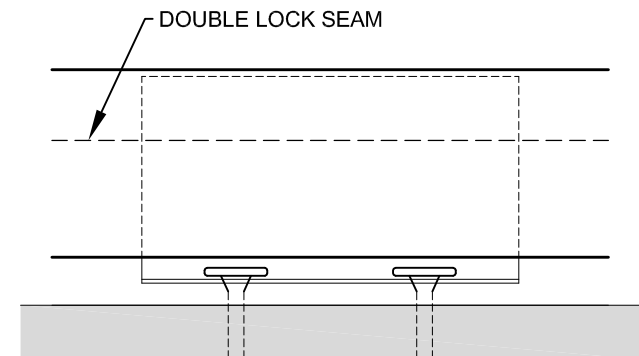
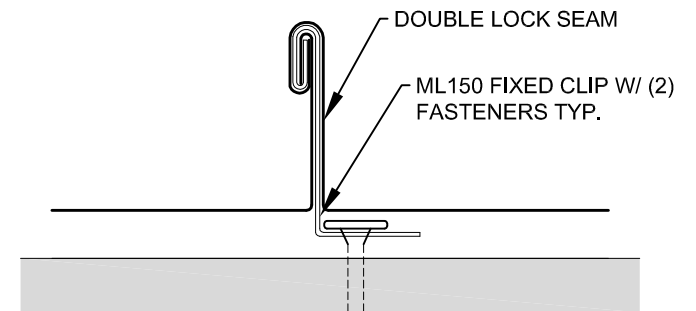
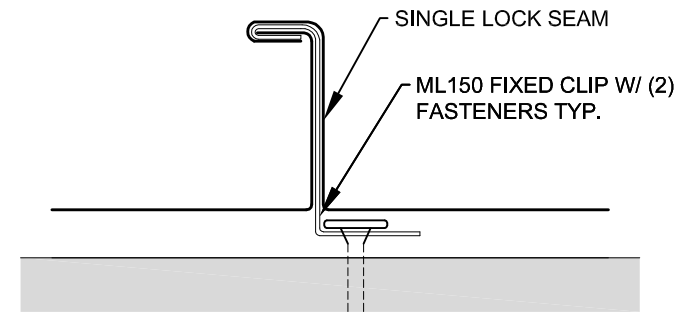
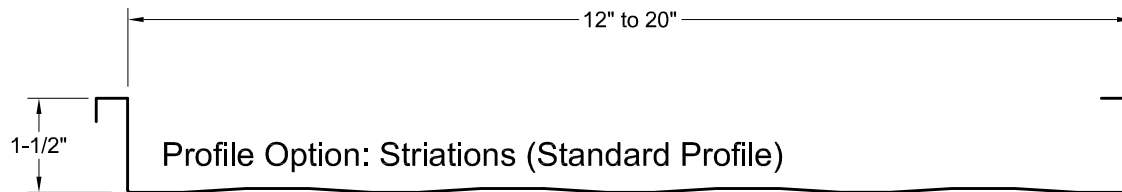
ML150-MD-0.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

MLI50 SYSTEM OVERVIEW - PANEL PROFILES

Detail No.:

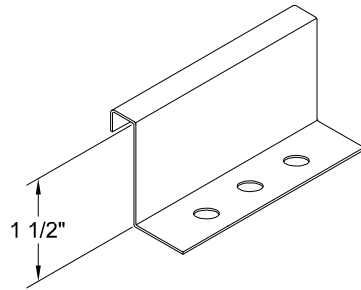
ML150-0.20

Substrate:

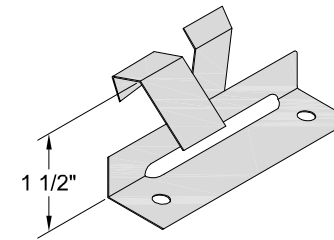
Project Name:

Location:

IMPORTANT INSTALLATION NOTE
 EXPANSION CLIPS ARE RECOMMENDED
 FOR PANEL LENGTHS GREATER THAN 30'-0".

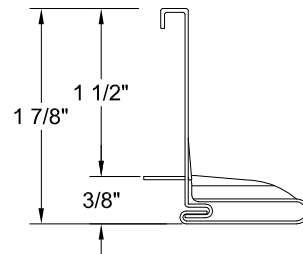
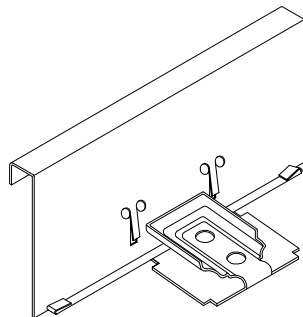


Clip 30 Fixed
 26 Ga. Galvanized
 1.5" x 3"



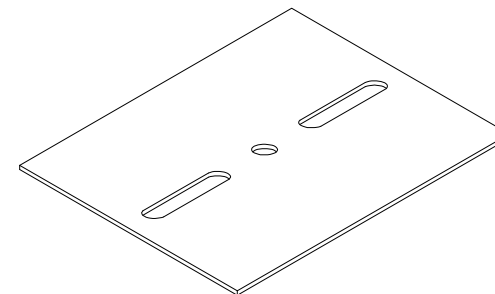
Clip 31 Butterfly Expansion
 28 Ga. Stainless Steel
 1.5" x 3"

Recommended for use with aluminum panels



Profile

Clip 32 Expansion
 22 Ga. Galvanized
 1.875" x 4.25" (0.375" Standoff)



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



Description:

MLI50 SYSTEM OVERVIEW - CLIPS

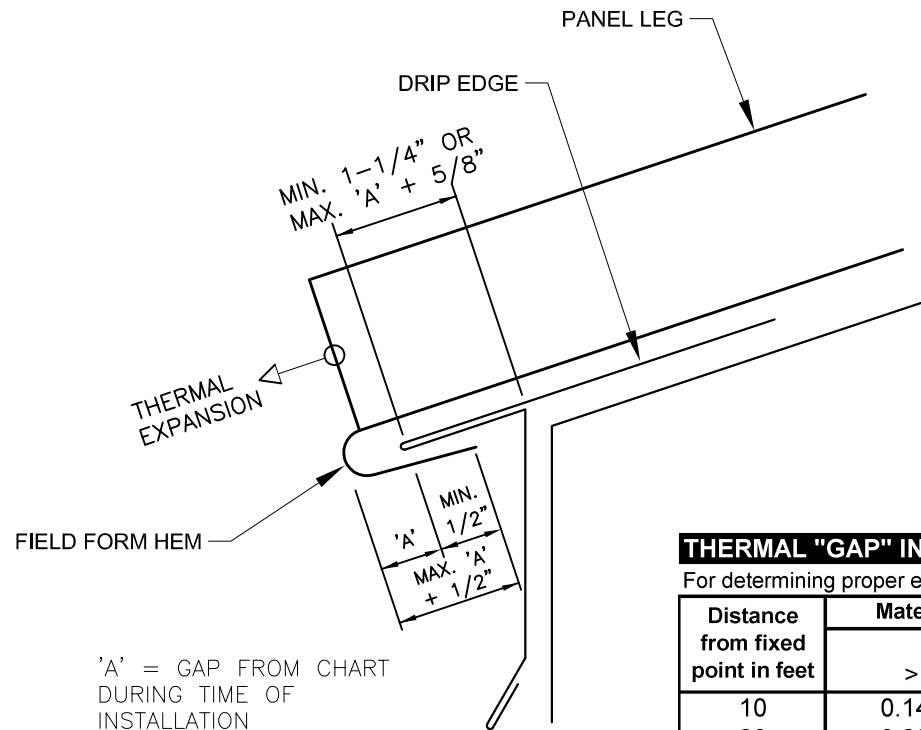
Detail No.:

ML150-0.21

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



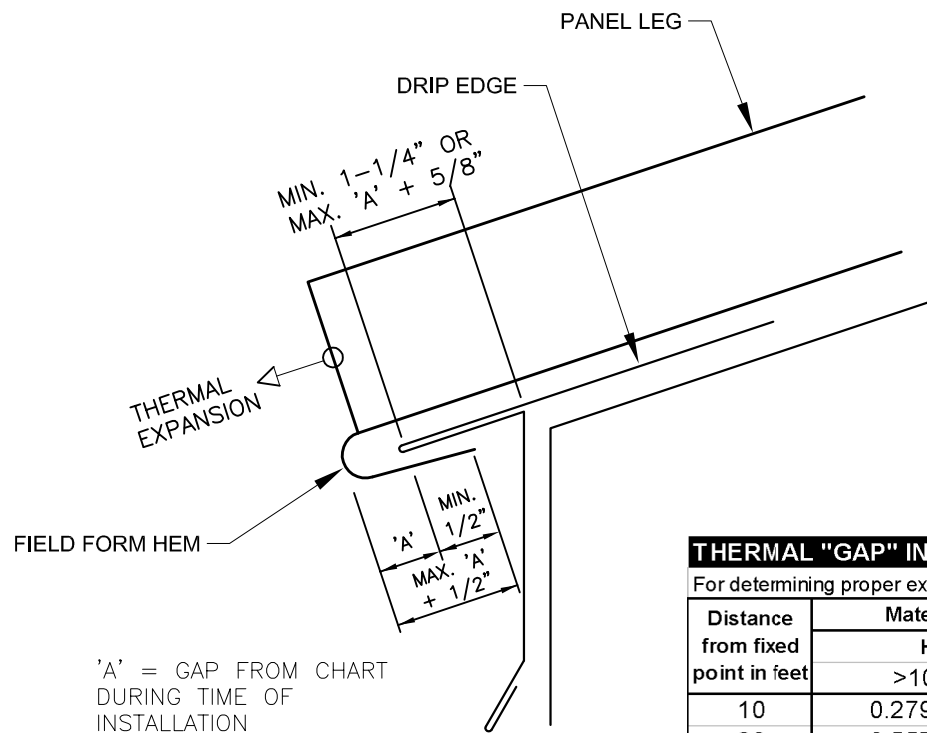
Description: **THERMAL GAP INSTALLATION CHART - STEEL**

Detail No.: **ML150-0.30**

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	7/16	0.125	1/8
40	1.115	1 1/8	0.557	9/16	0.125	1/8
50	1.393	1 3/8	0.697	11/16	0.188	3/16
60	1.672	1 11/16	0.836	13/16	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



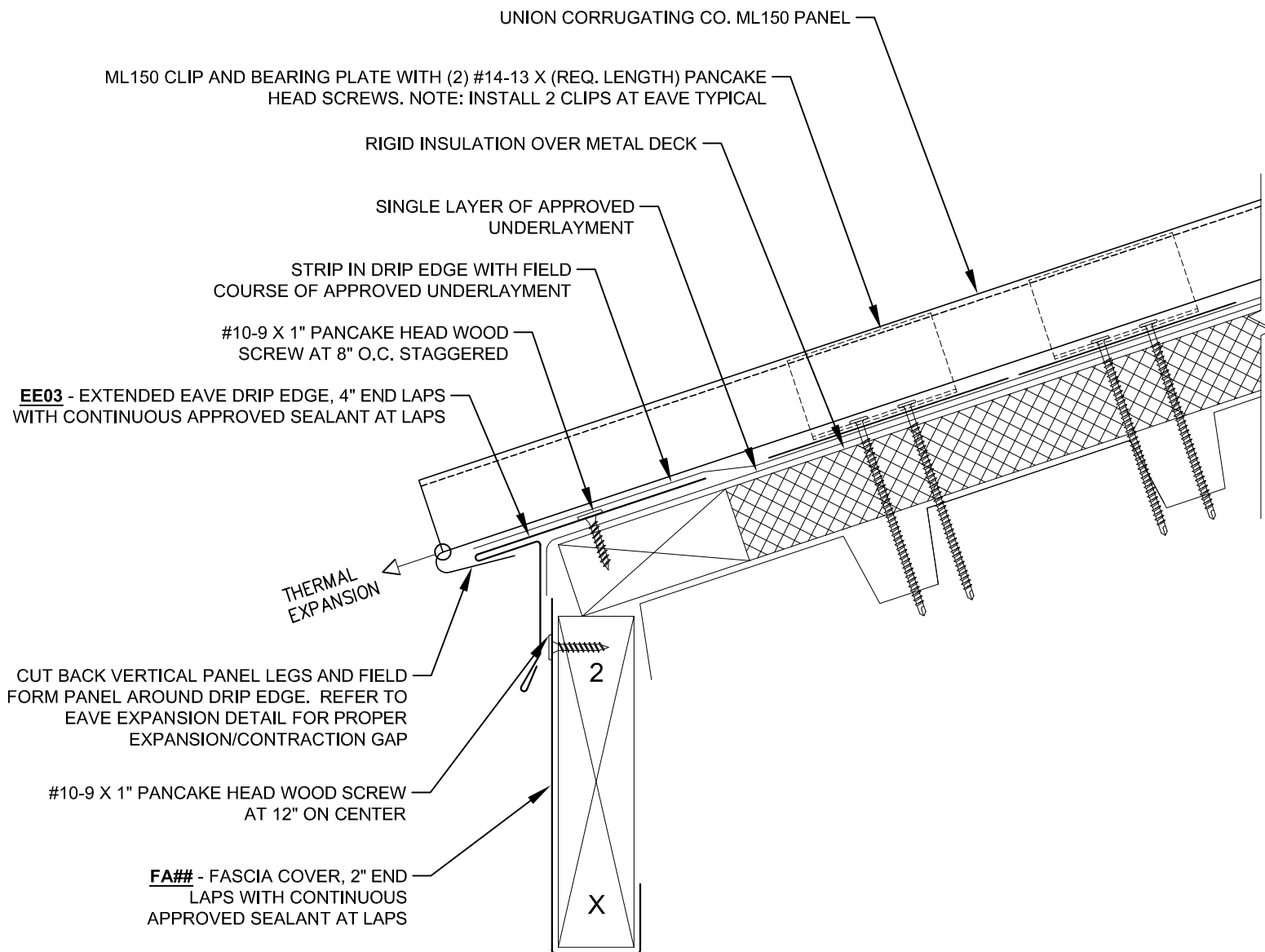
Description: **THERMAL GAP INSTALLATION CHART - ALUMINUM**

Detail No.: **ML150-0.31**

Substrate:

Project Name:

Location:



Description:

EXTENDED EAVE

Detail No.:

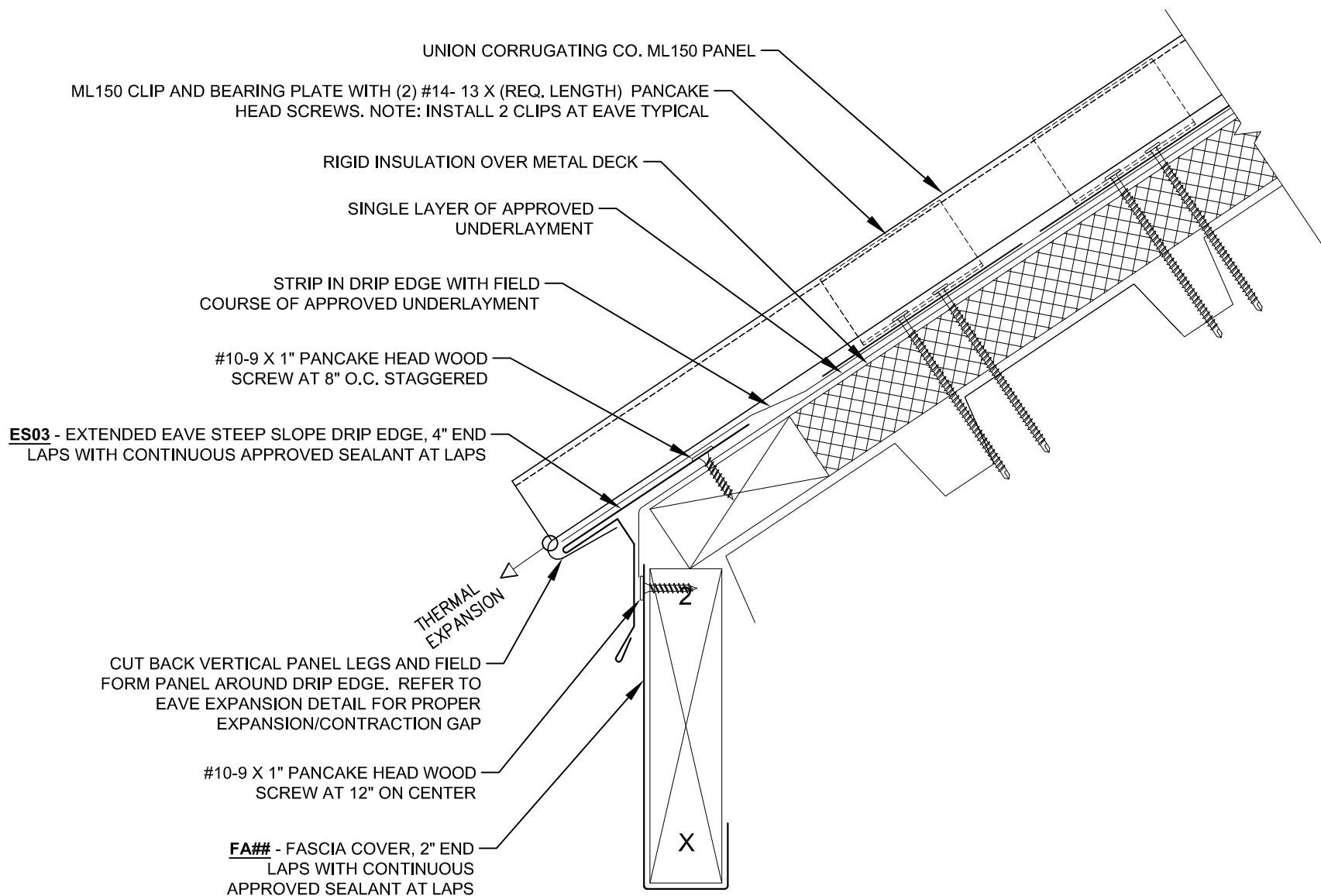
ML150-MD-1.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE - STEEP SLOPE

Detail No.:

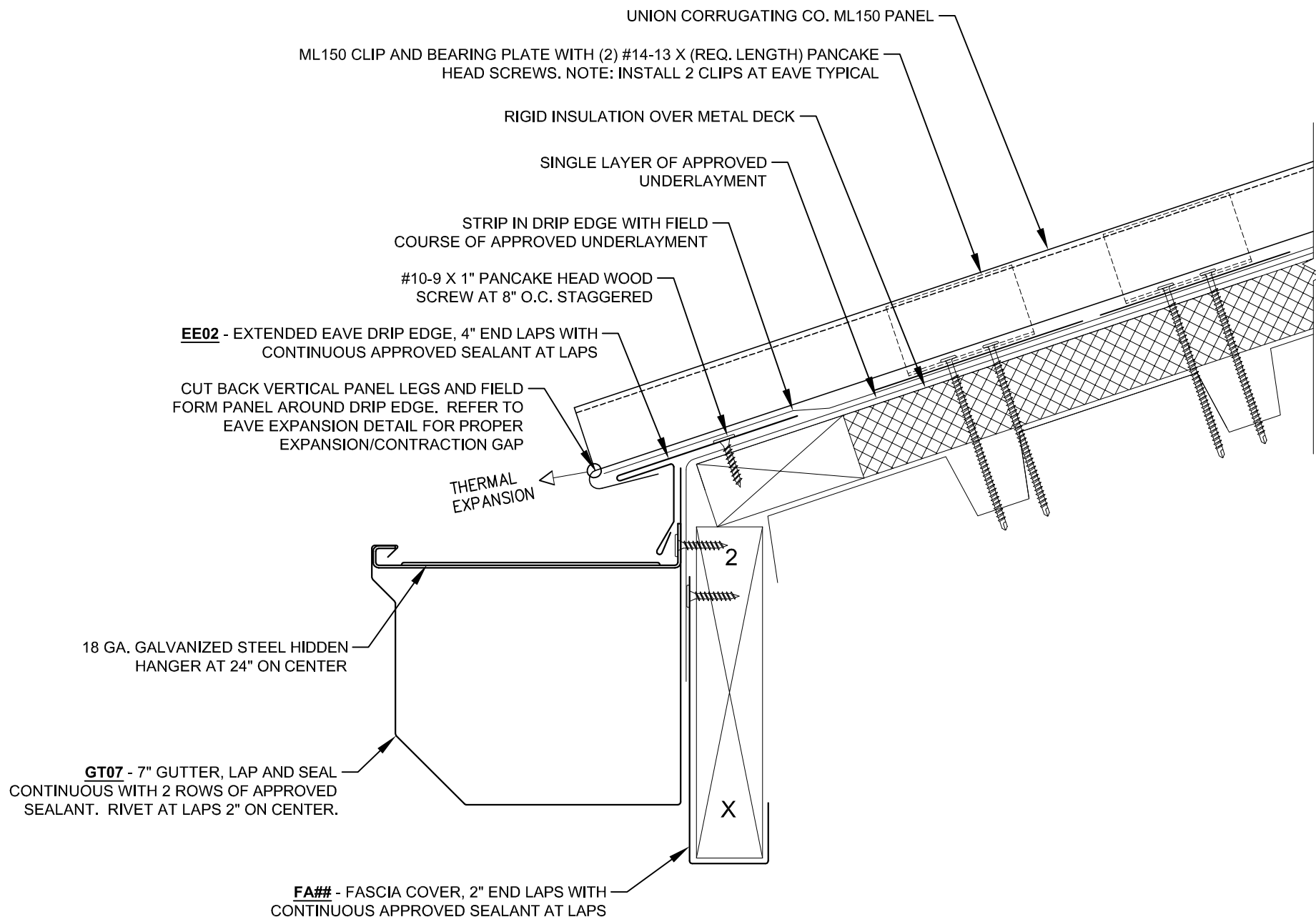
ML150-MD-1.10A

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE WITH GUTTER

Detail No.:

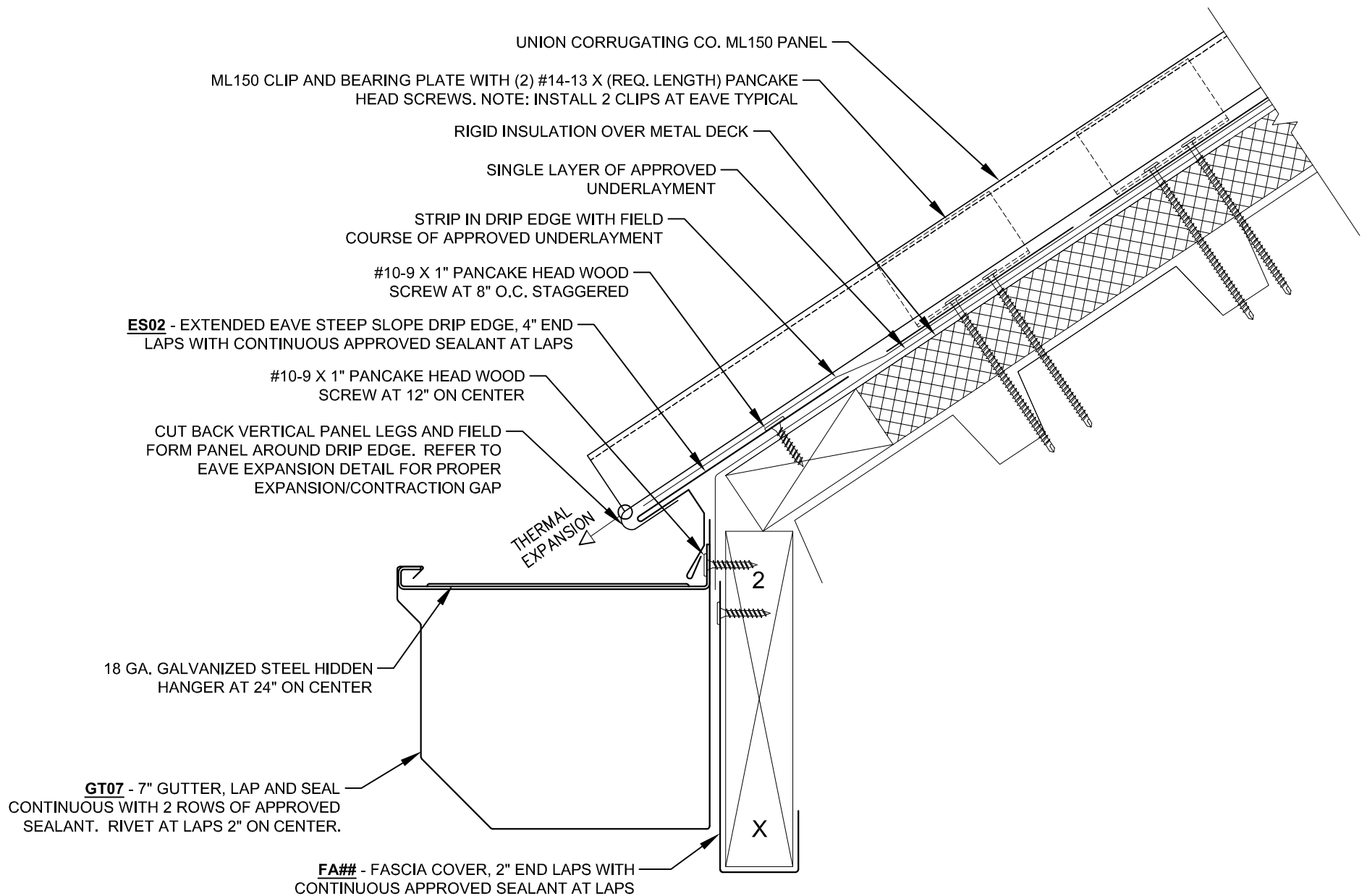
ML150-MD-1.20

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE W/ GUTTER- STEEP SLOPE

Substrate:

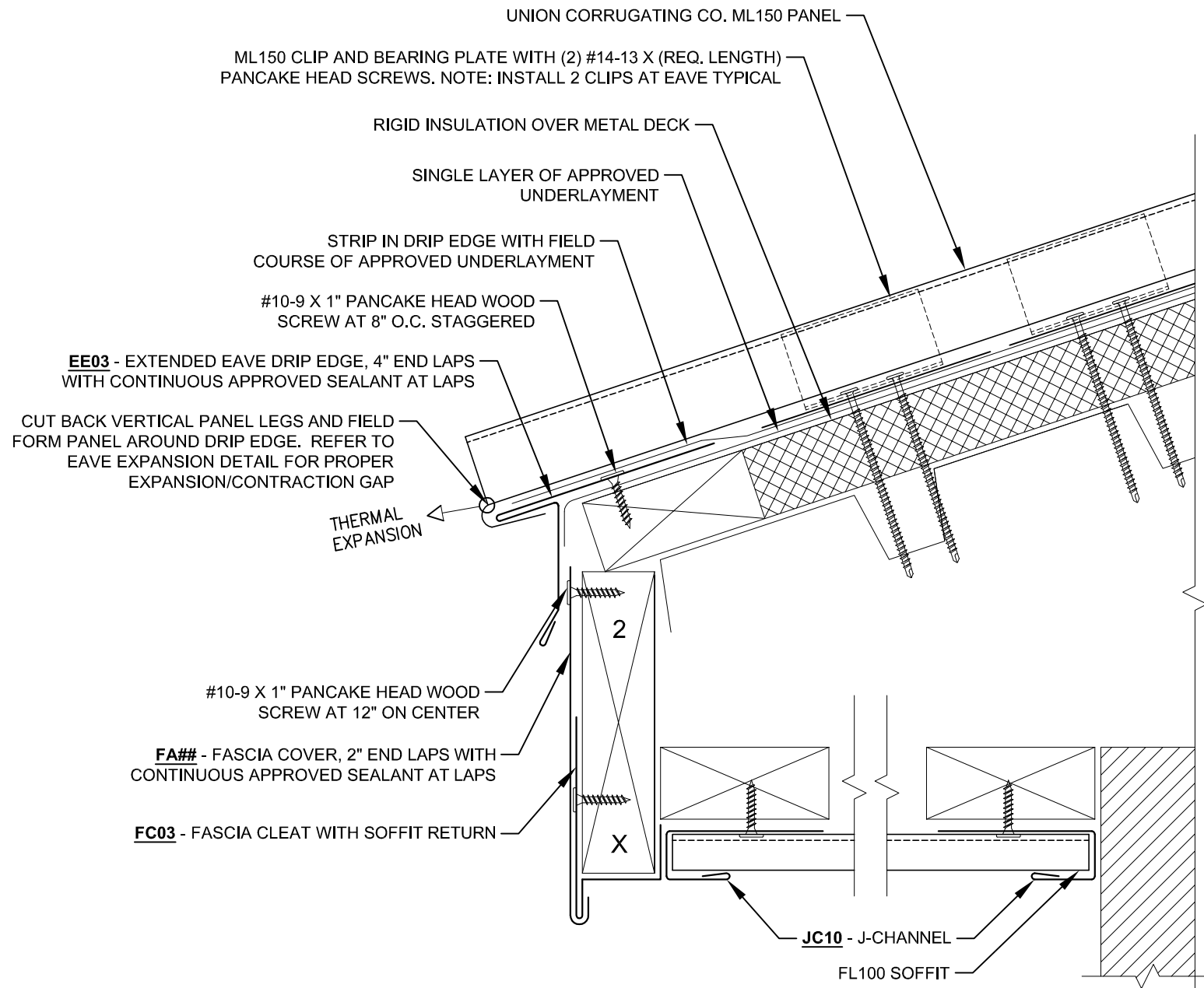
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

ML150-MD-1.20A



Description:

EXTENDED EAVE WITH SOFFIT

Detail No.:

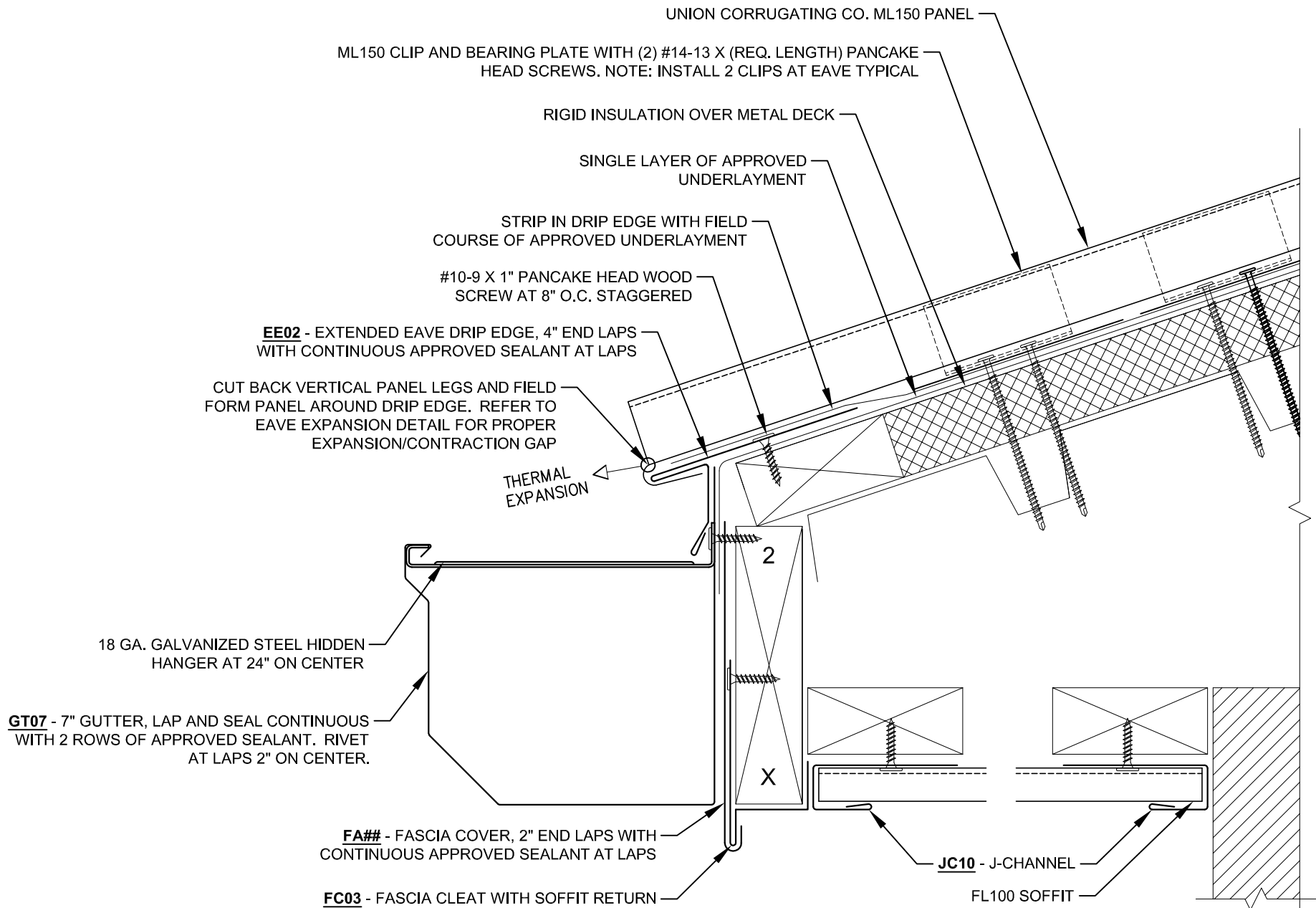
ML150-MD-1.30

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE WITH SOFFIT & GUTTER

Detail No.:

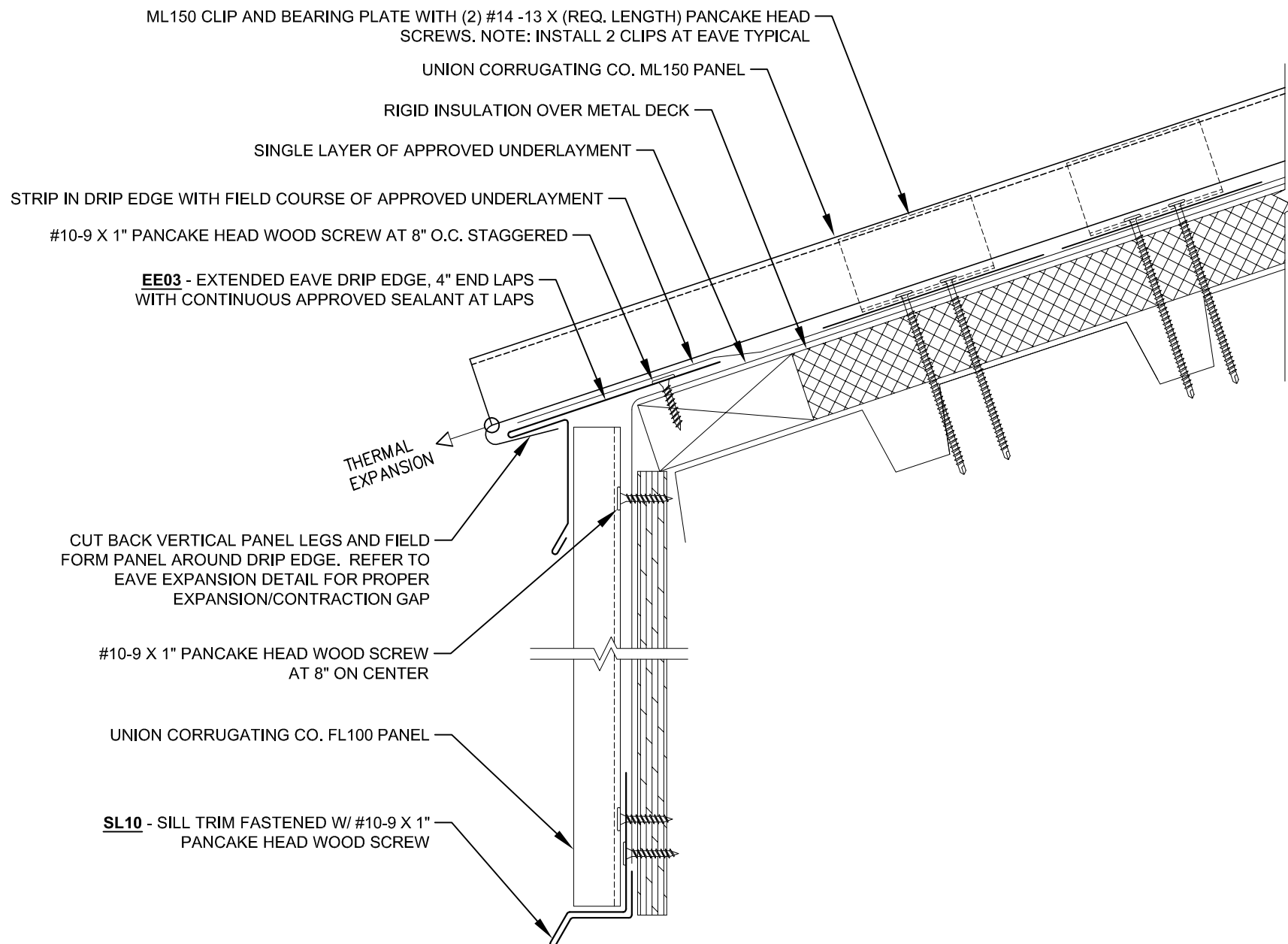
ML150-MD-1.40

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXTENDED EAVE W/ VERTICAL FLUSH PANEL

Detail No.:

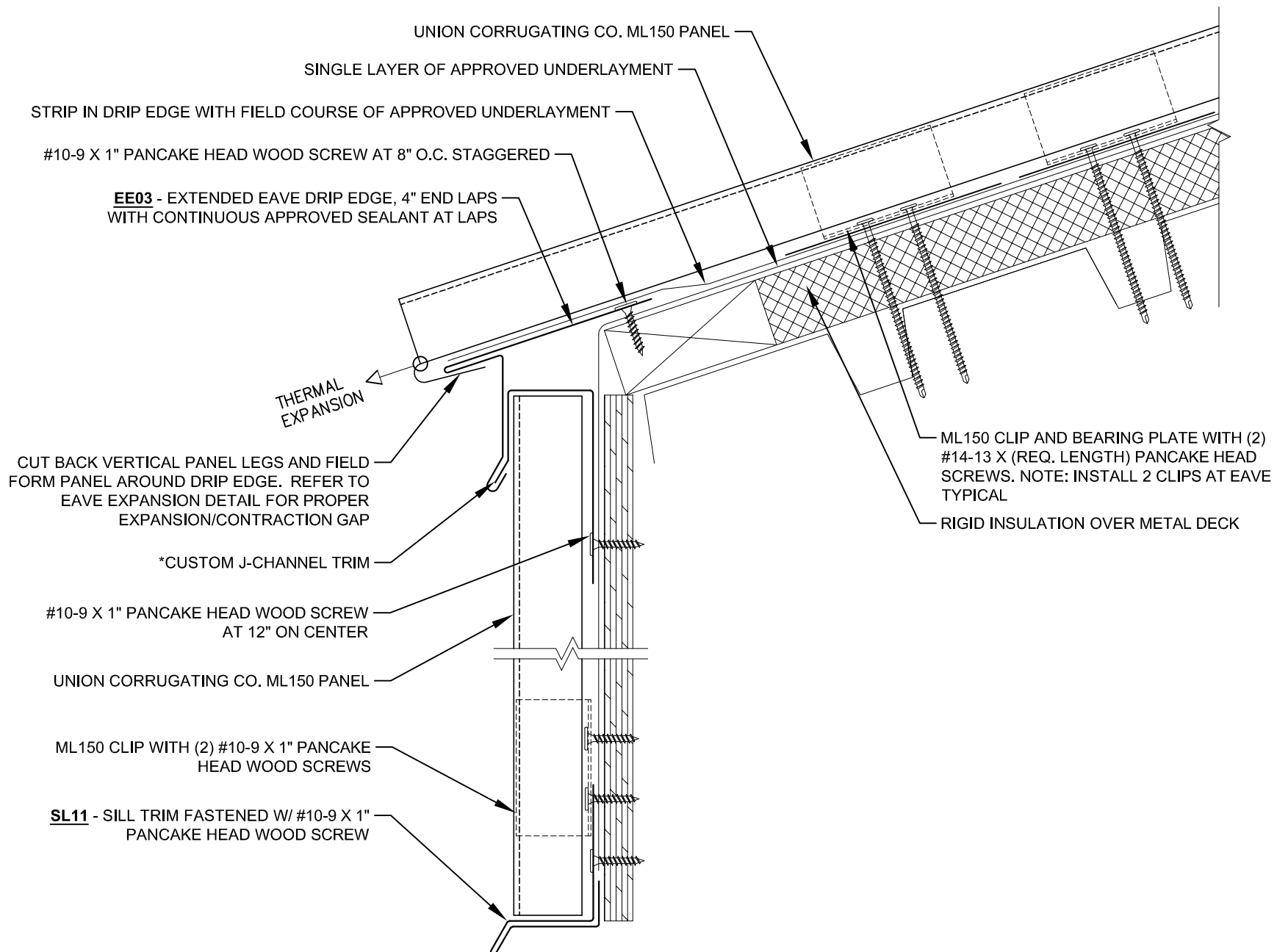
ML150-MD-1.50

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

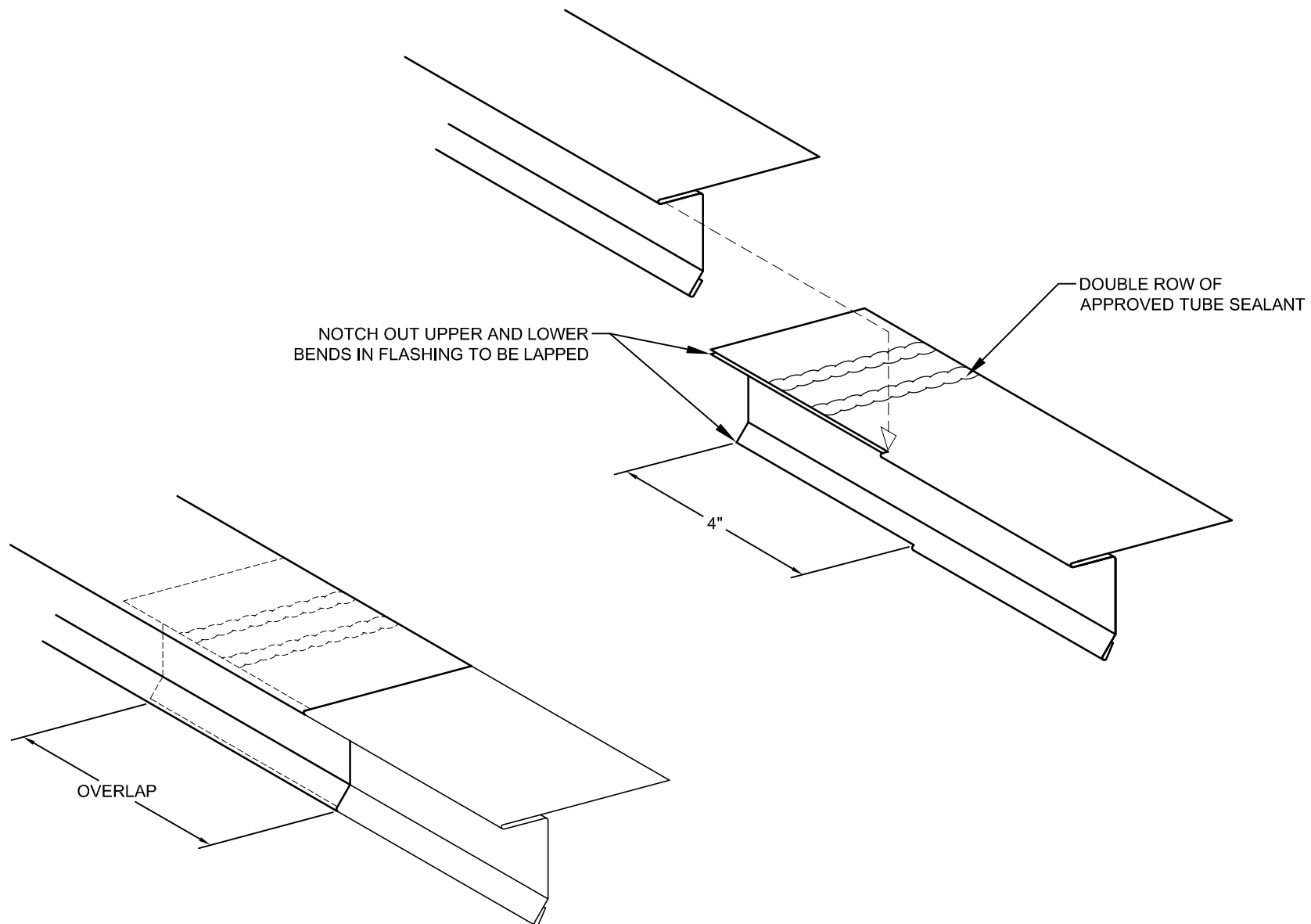


Description: **EXT. EAVE W/ VERTICAL STANDING SEAM PANELS**

Detail No.: **ML150-MD-1.60**

Substrate: **RIGID INSULATION OVER METAL DECK**

Project Name:
Location:



Description:

DRIP EDGE LAP DETAIL

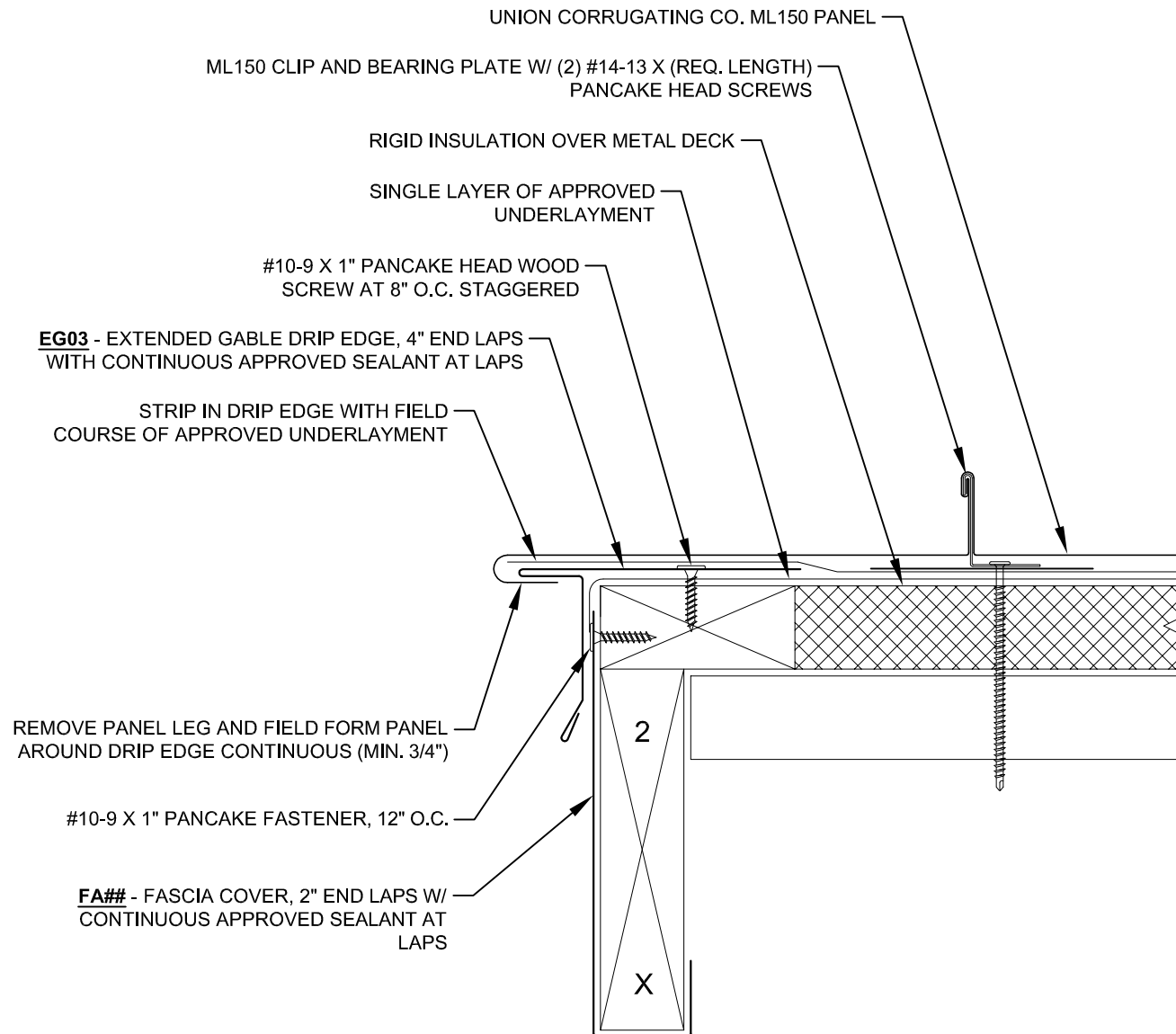
Detail No.:

ML150-1.90

Substrate:

Project Name:

Location:



Description:

GABLE DETAIL - EXTENDED DRIP STYLE

Detail No.:

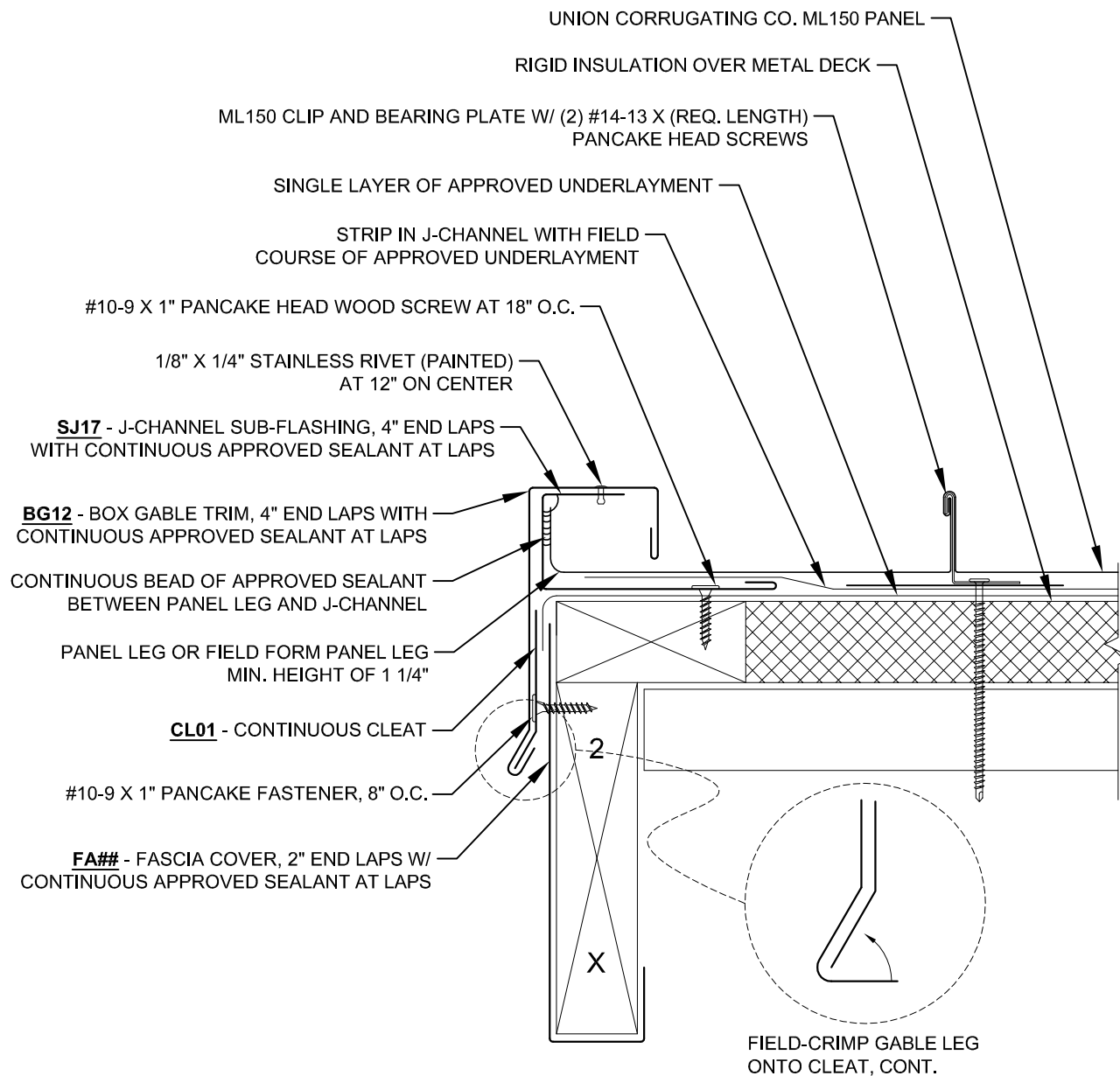
ML150-MD-2.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

GABLE DETAIL - BOX STYLE

Detail No.:

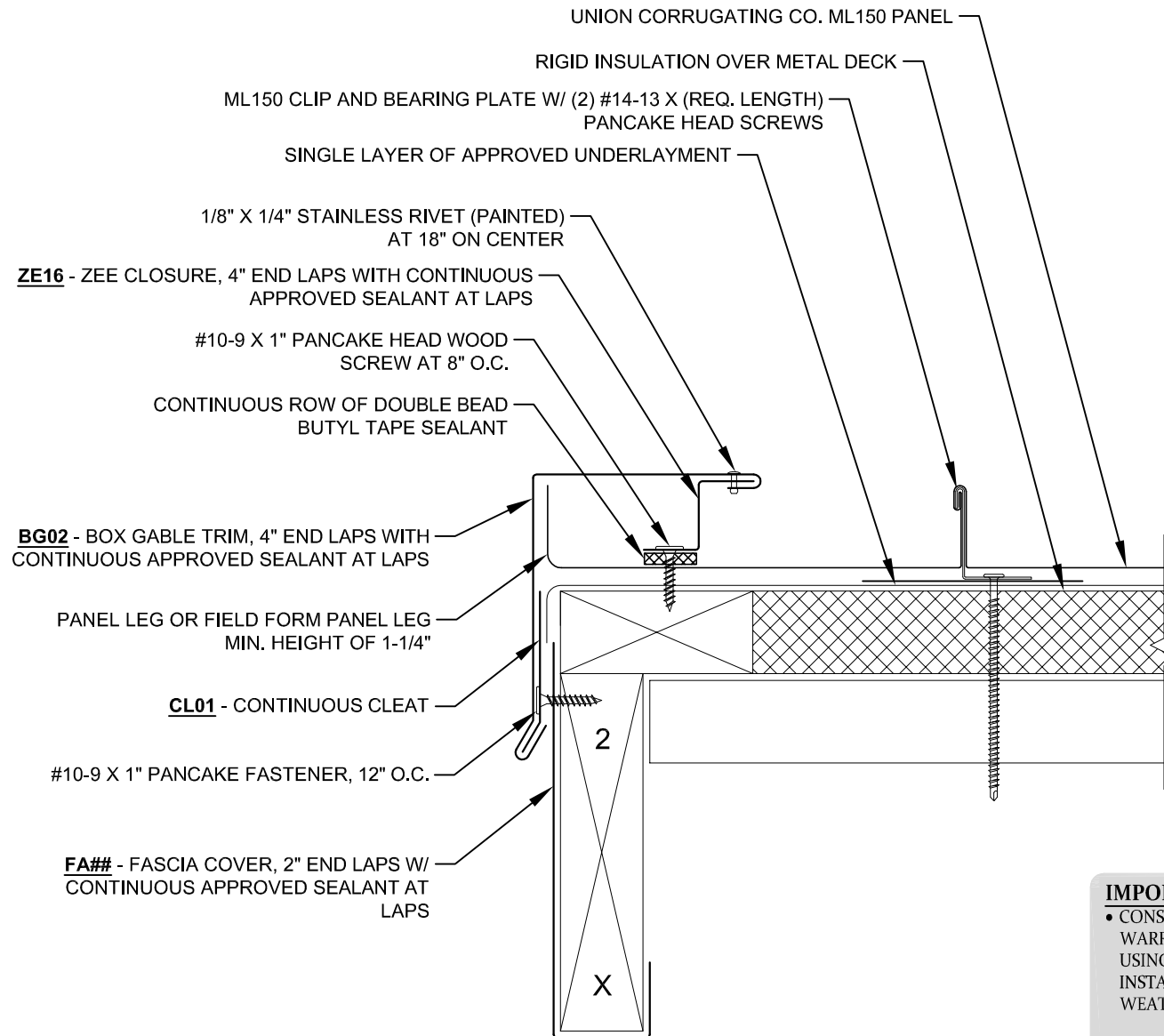
ML150-MD-2.20

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".

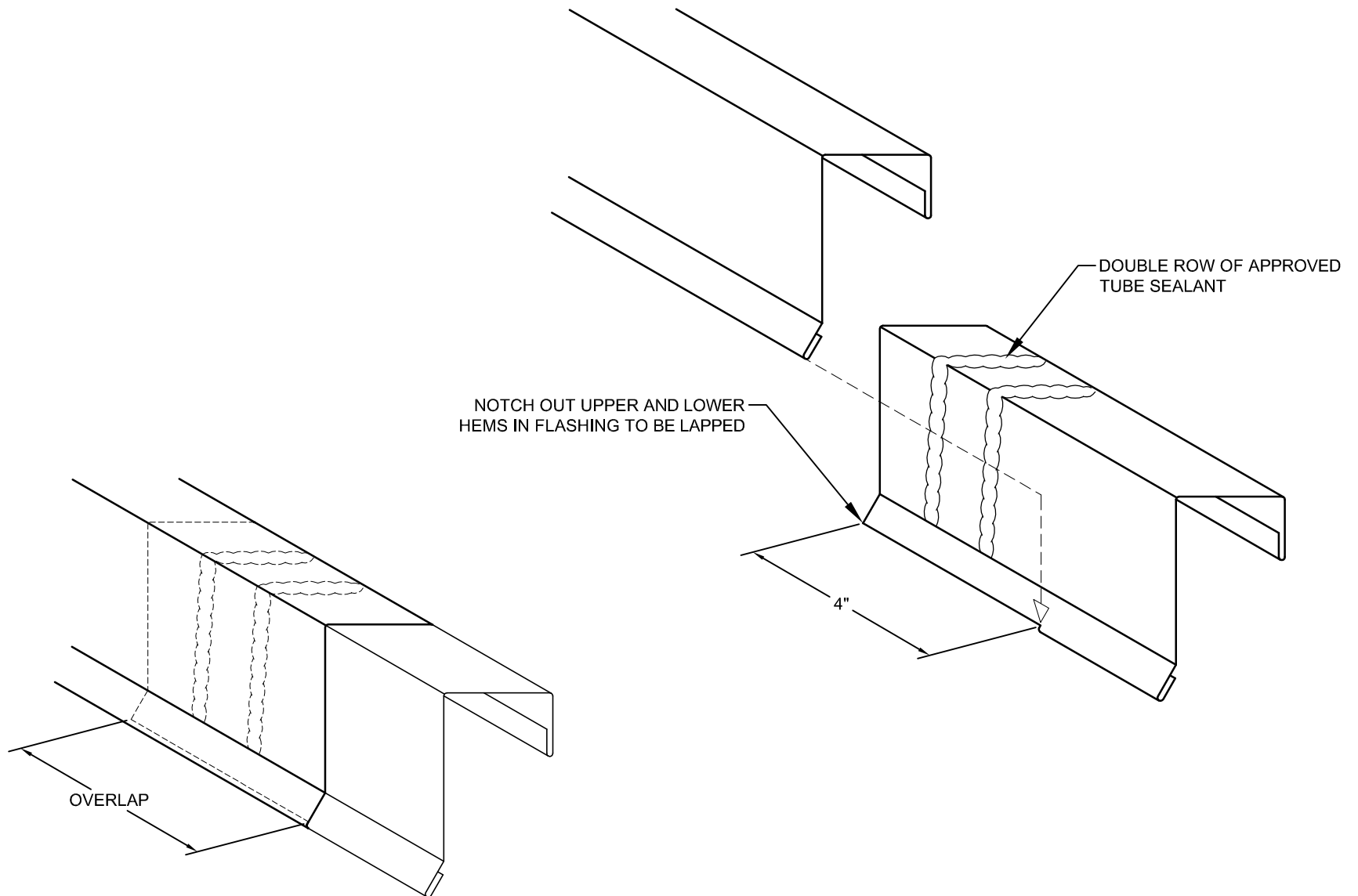


Description: **GABLE DETAIL - BOX STYLE W/ Z-CLOSURE**

Detail No.: **ML150-MD-2.30**

Substrate: **RIGID INSULATION OVER METAL DECK**

Project Name:
Location:



Description:

BOX GABLE LAP DETAIL

Detail No.:

ML150-2.90

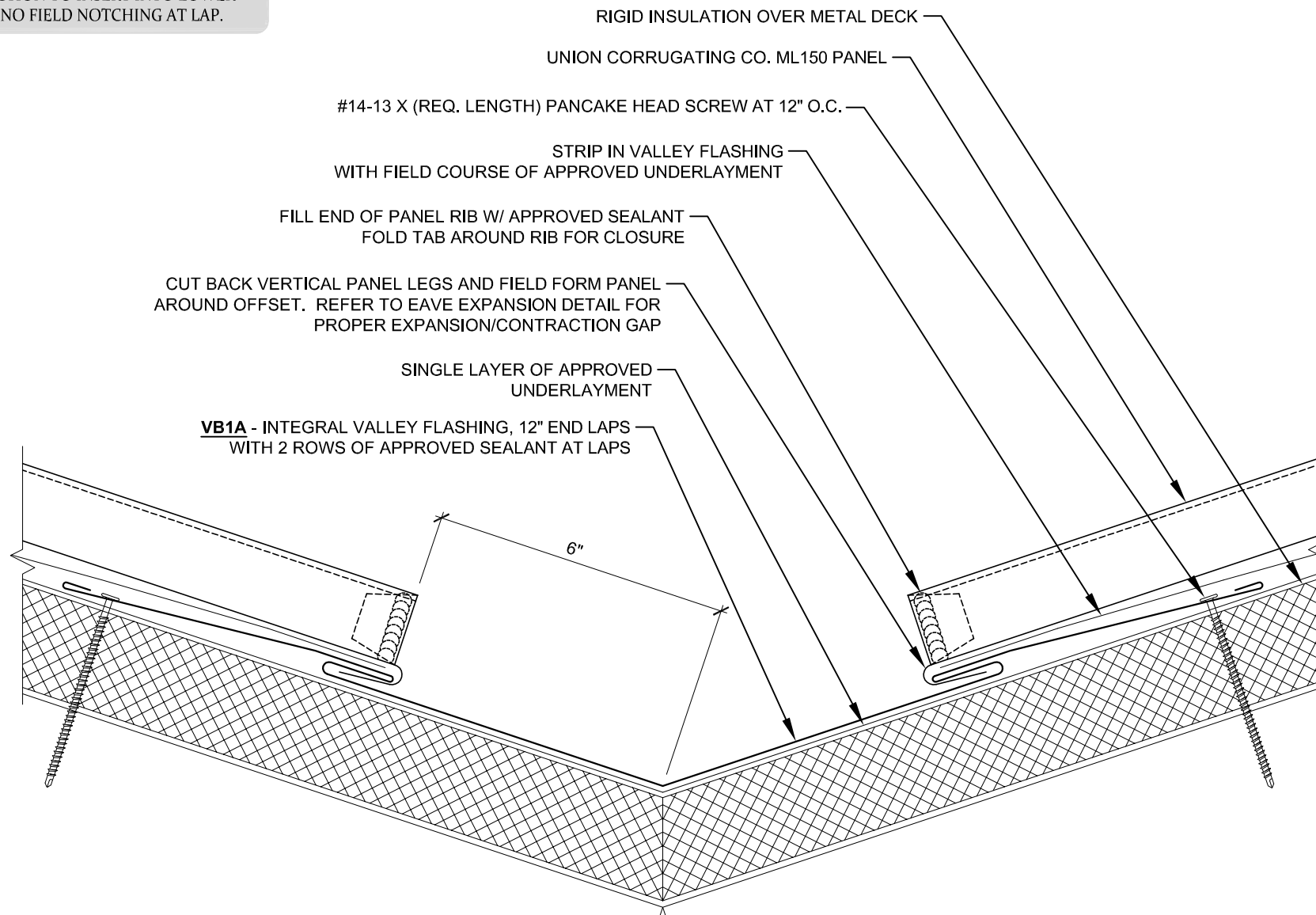
Substrate:

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.:

ML150-MD-3.10

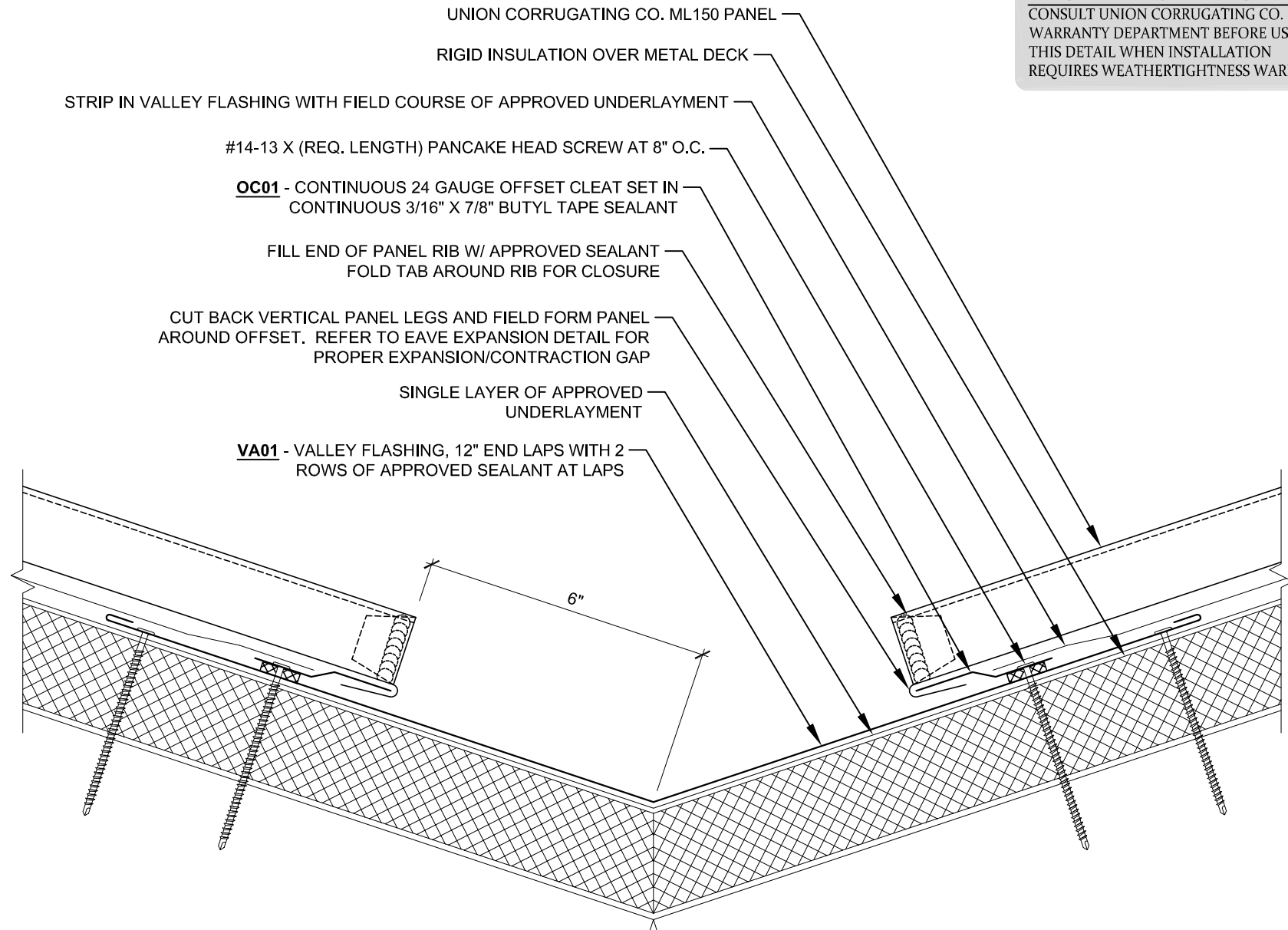
Substrate:

RIGID INSULATION OVER METAL DECK

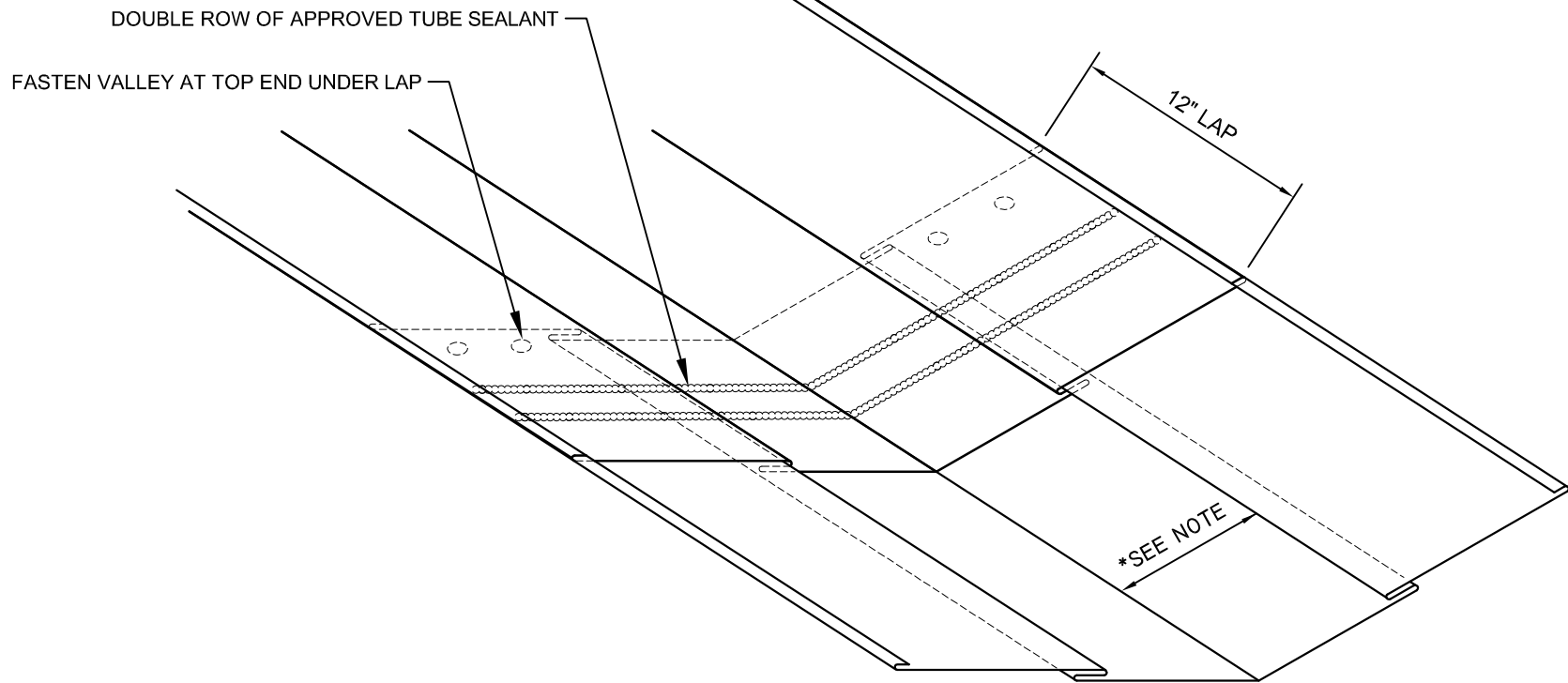
Project Name:

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.: ML150-MD-3.20
Substrate:	RIGID INSULATION OVER METAL DECK	Project Name: Location:



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

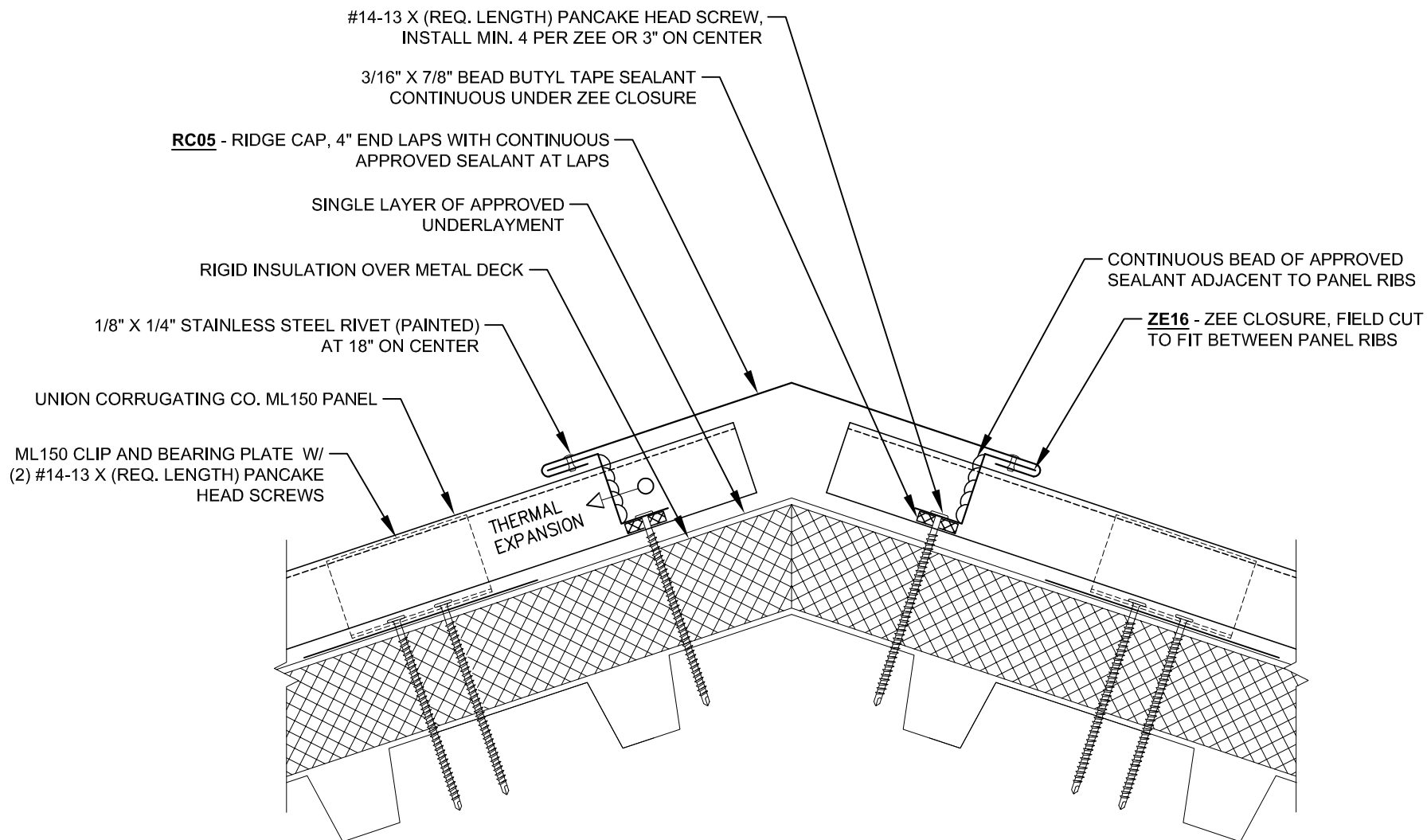
Detail No.:

ML150-3.90

Substrate:

Project Name:

Location:



Description:

HIP AND RIDGE DETAIL

Detail No.:

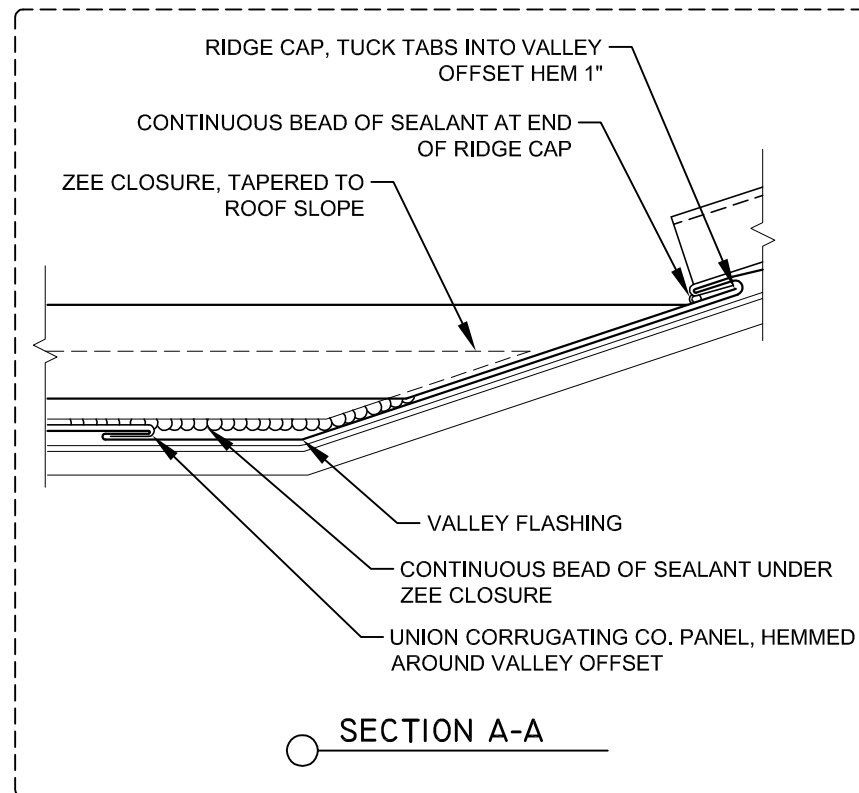
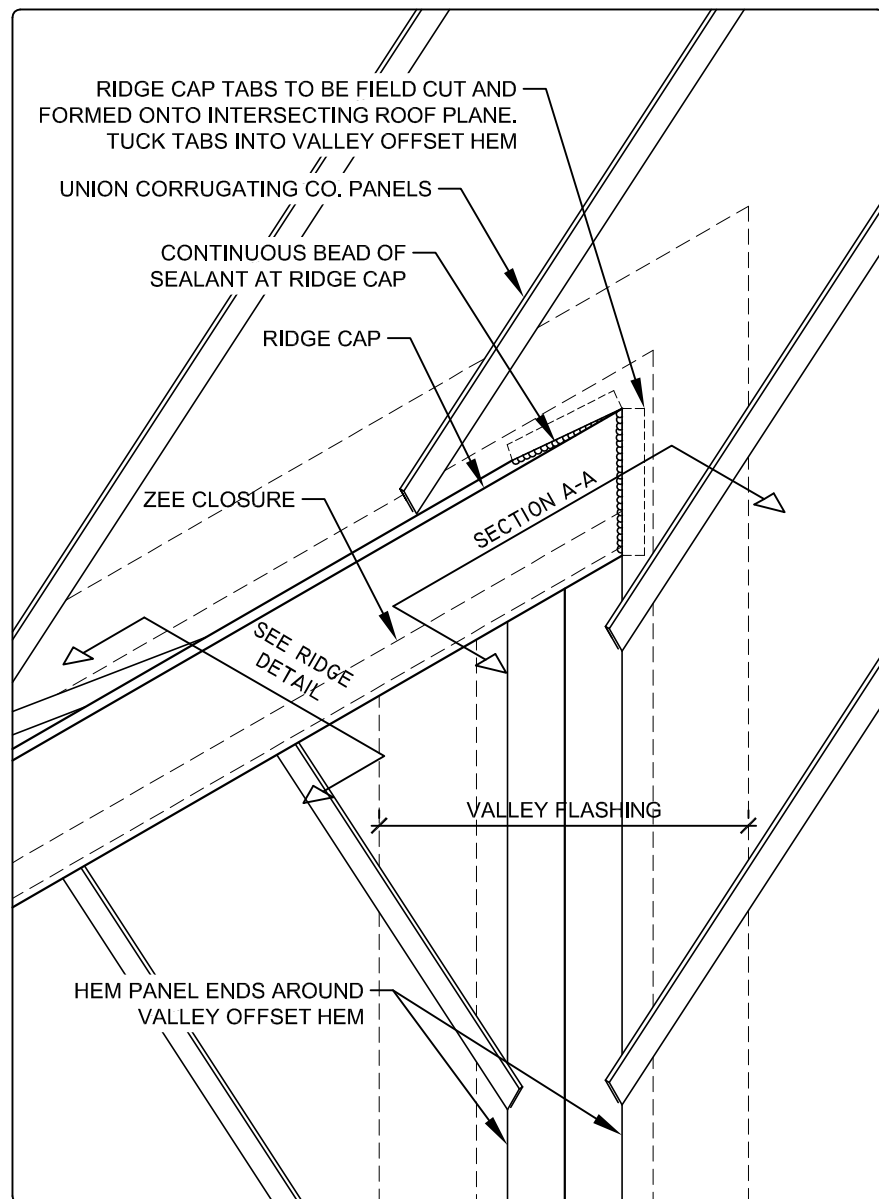
ML150-MD-4.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

RIDGE TERMINATION @ VALLEY

Detail No.:

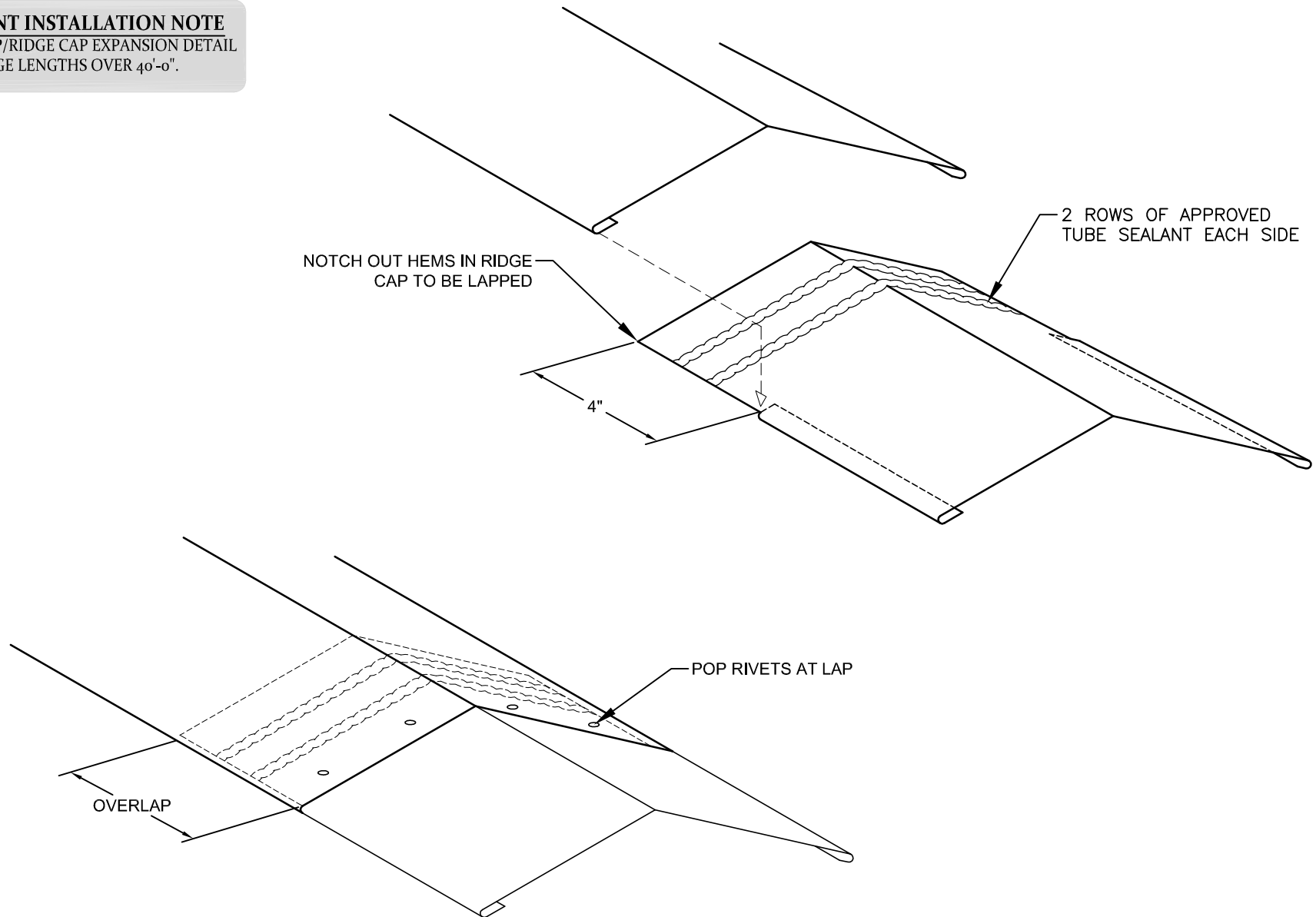
ML150-4.40

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.:

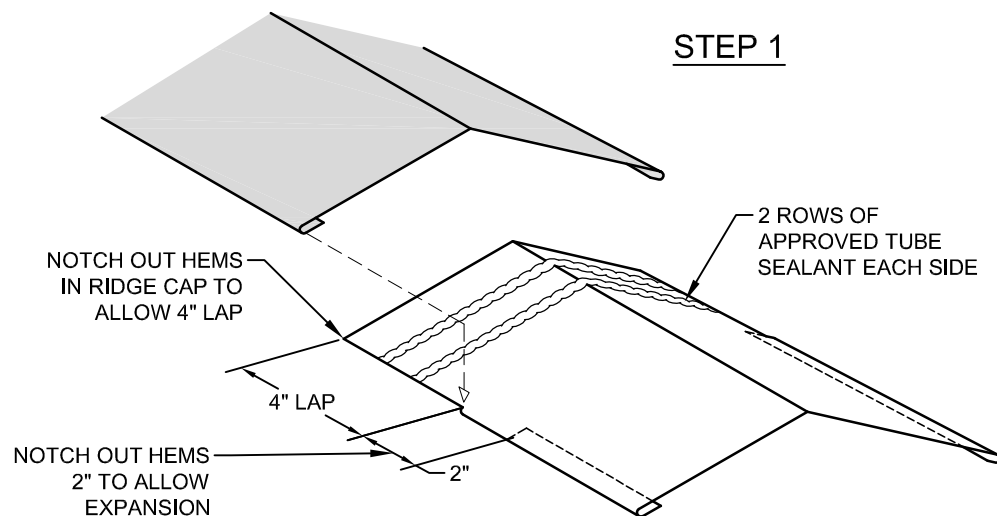
ML150-4.90

Substrate:

Project Name:

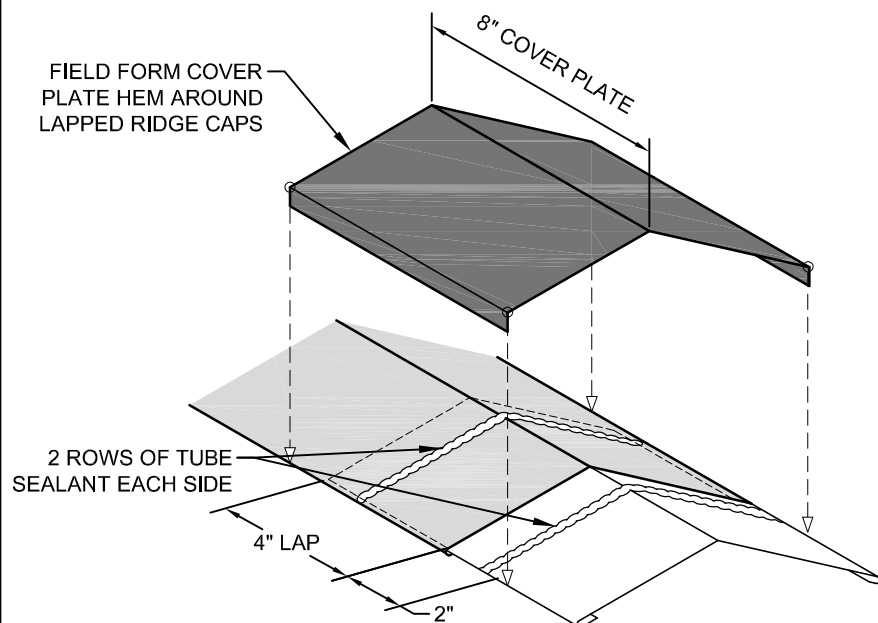
Location:

STEP 1

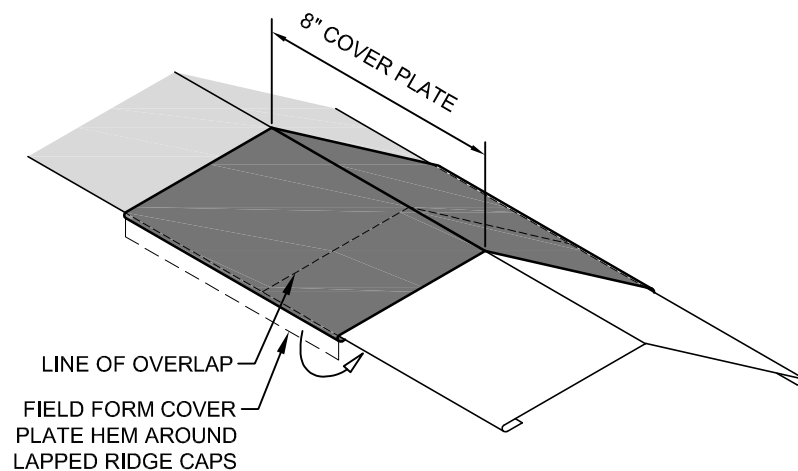


IMPORTANT INSTALLATION NOTE

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



STEP 2



STEP 3



Description:

Substrate:

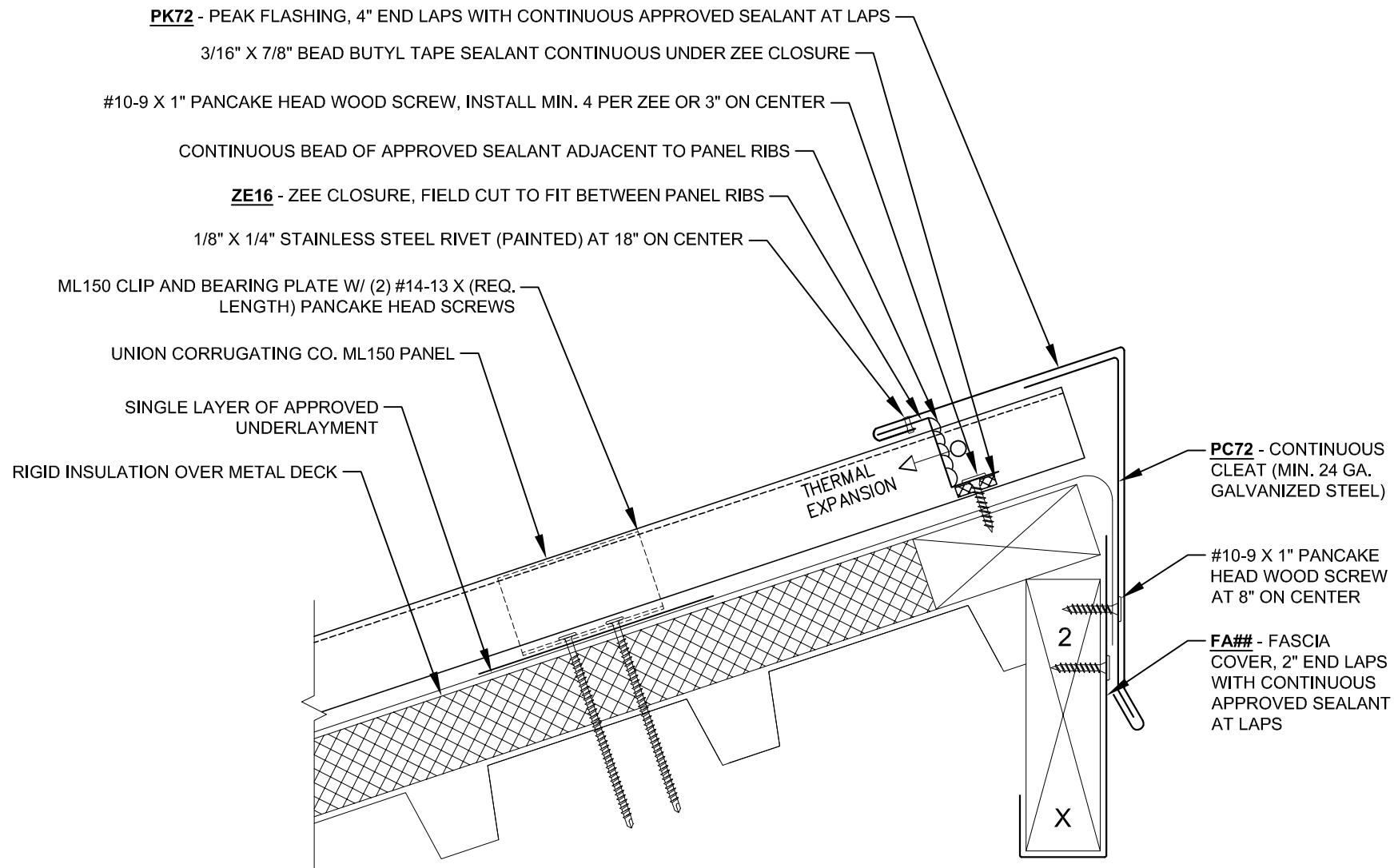
HIP & RIDGE CAP EXPANSION

Detail No.:

ML150-4.91

Project Name:

Location:



Description:

PEAK DETAIL

Detail No.:

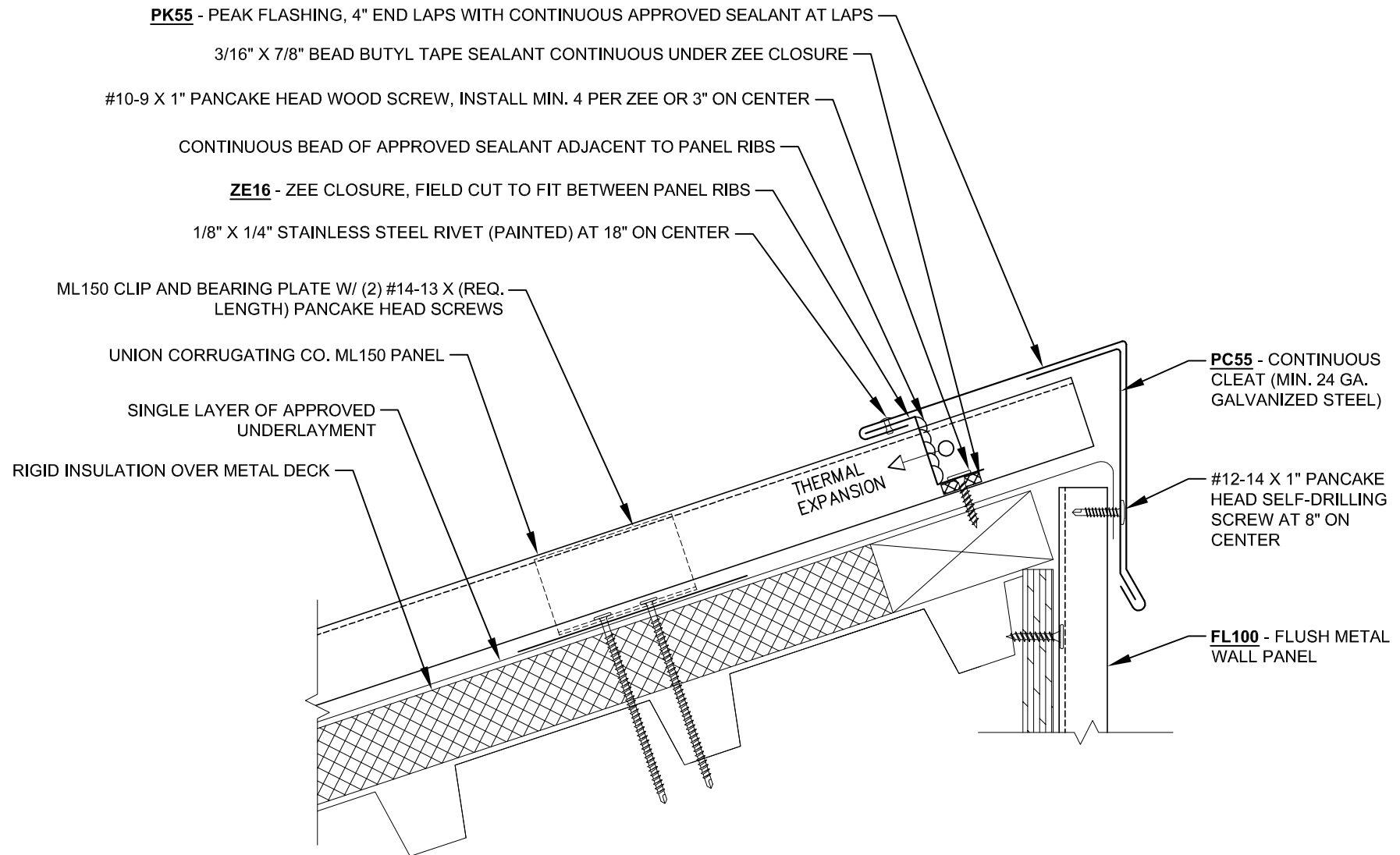
ML150-MD-5.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

PEAK DETAIL - WITH WALL PANELS

Detail No.:

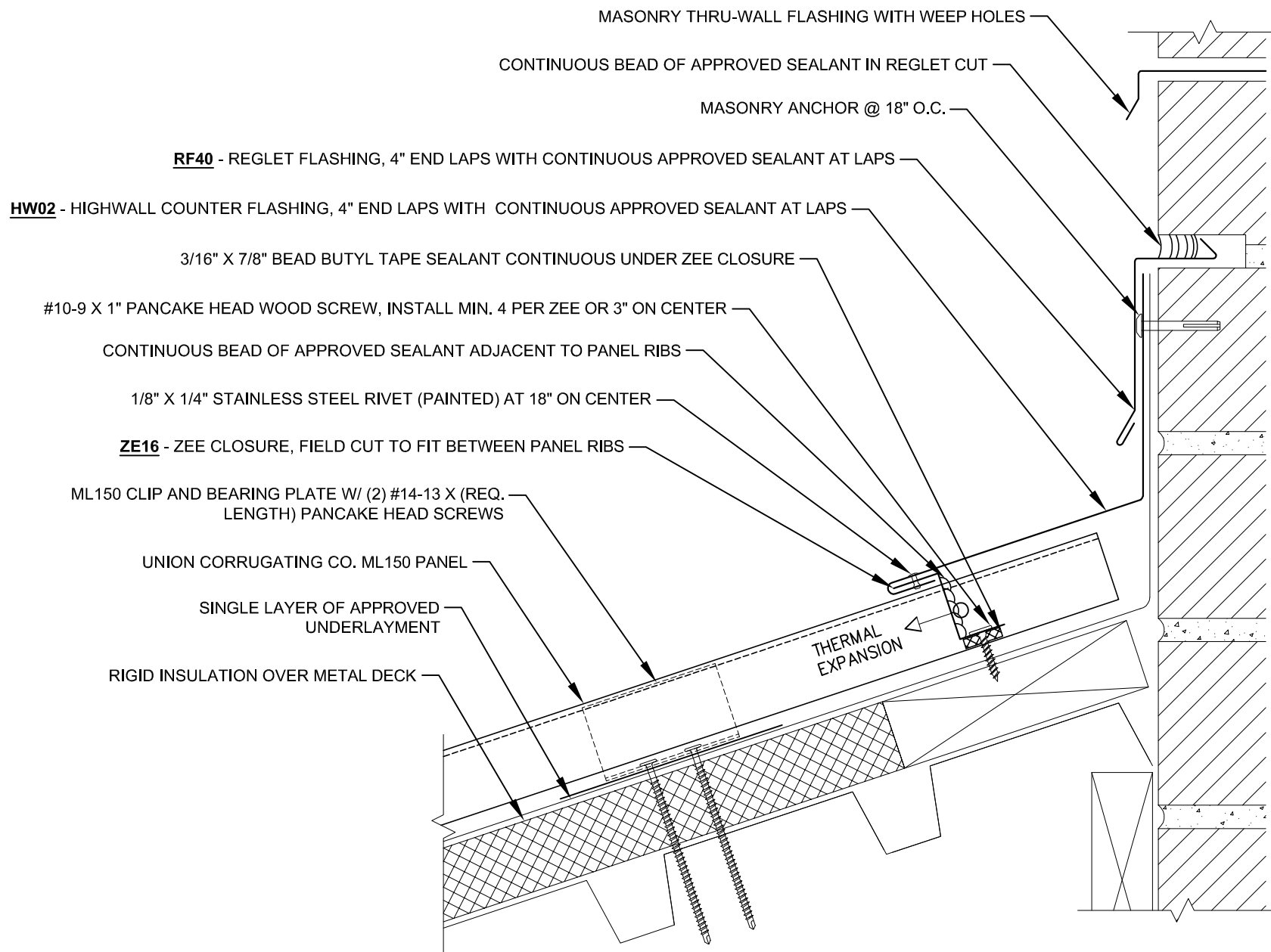
ML150-MD-5.40

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

HIGHWALL DETAIL - REGLET

Detail No.:

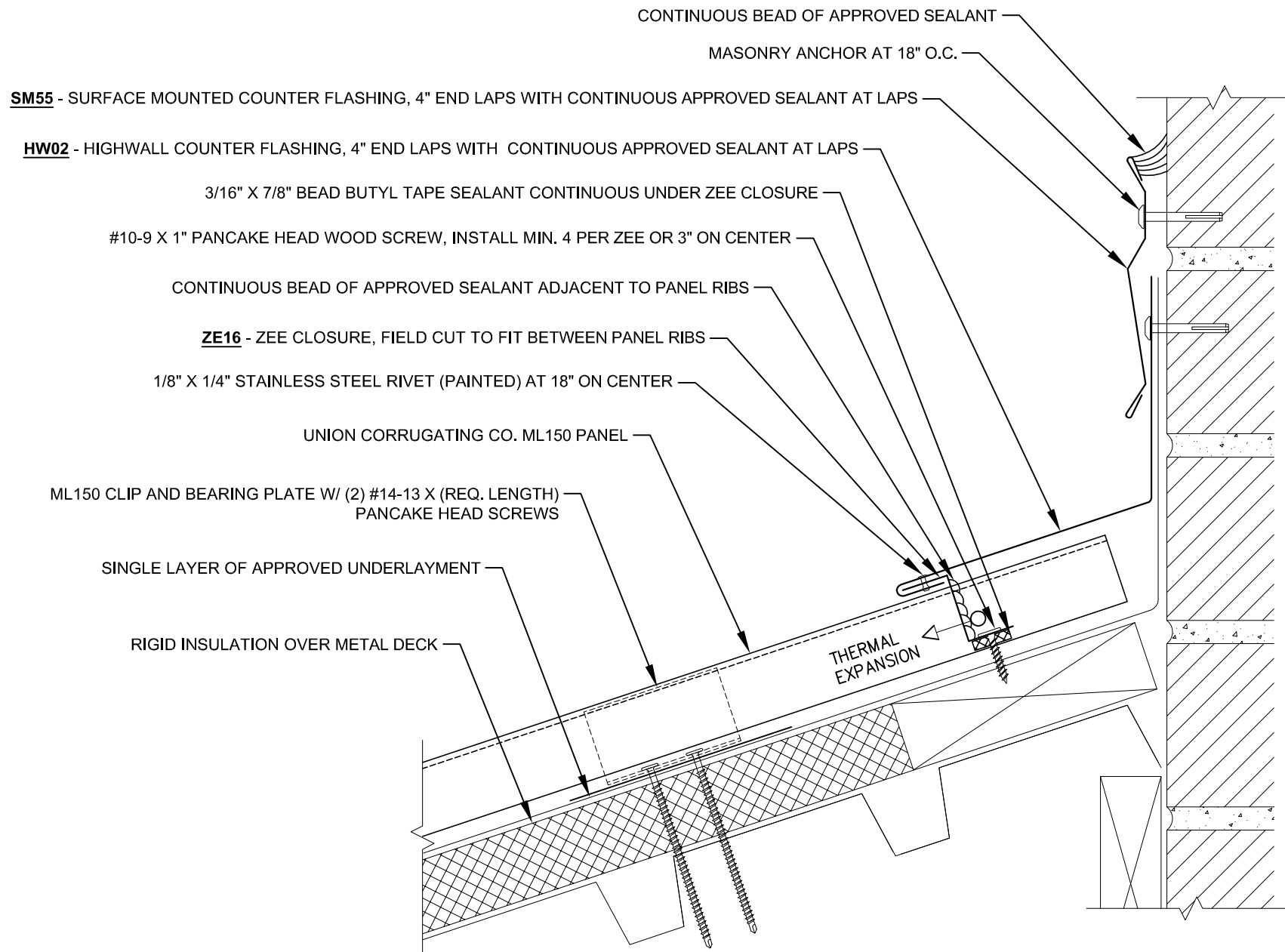
ML150-MD-6.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

HIGHWALL DETAIL - SURFACE MOUNT

Detail No.:

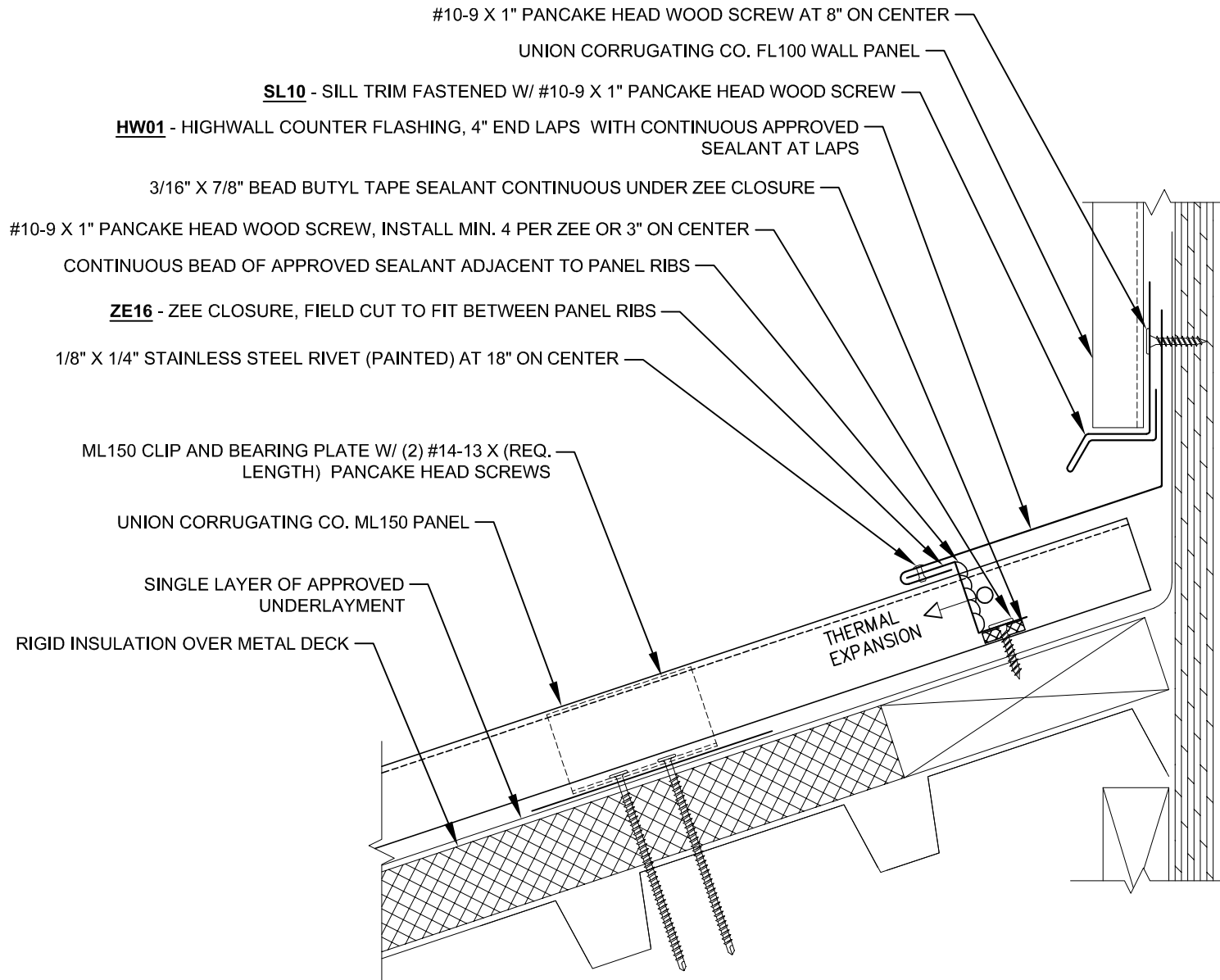
ML150-MD-6.12

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.:

ML150-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

ZE16 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

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

ML150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. ML150 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

THERMAL EXPANSION



Description:

HIGHWALL DETAIL - PARAPET COPING

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

ML150-MD-6.20

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

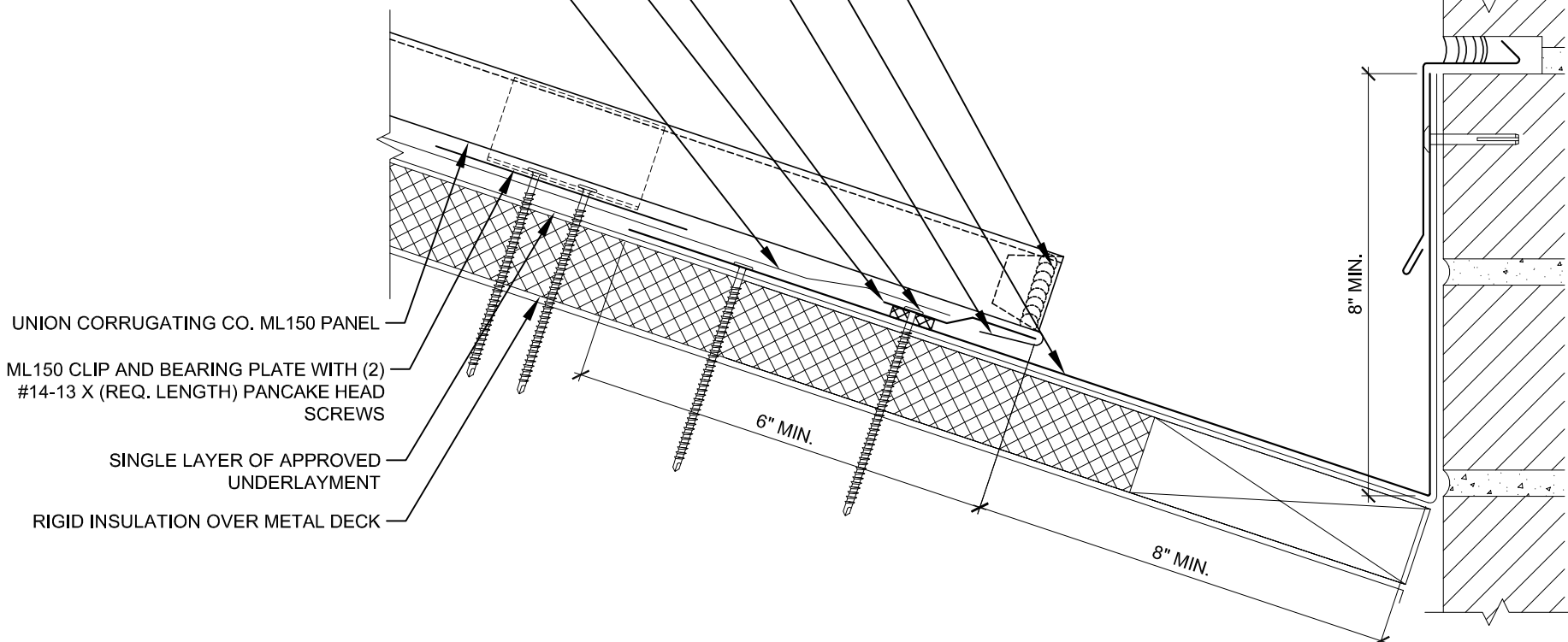
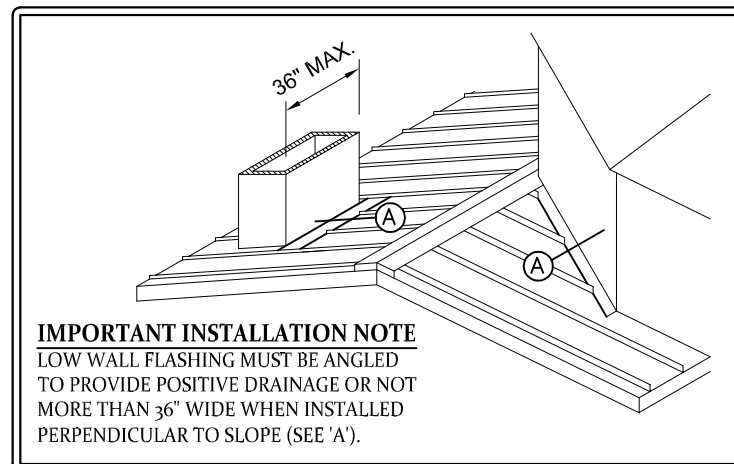
LW01 - LOW WALL FLASHING, 12" END LAPS WITH 2 ROWS OF APPROVED SEALANT AT LAPS

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



Description:

VALLEY WALL DETAIL

Detail No.:

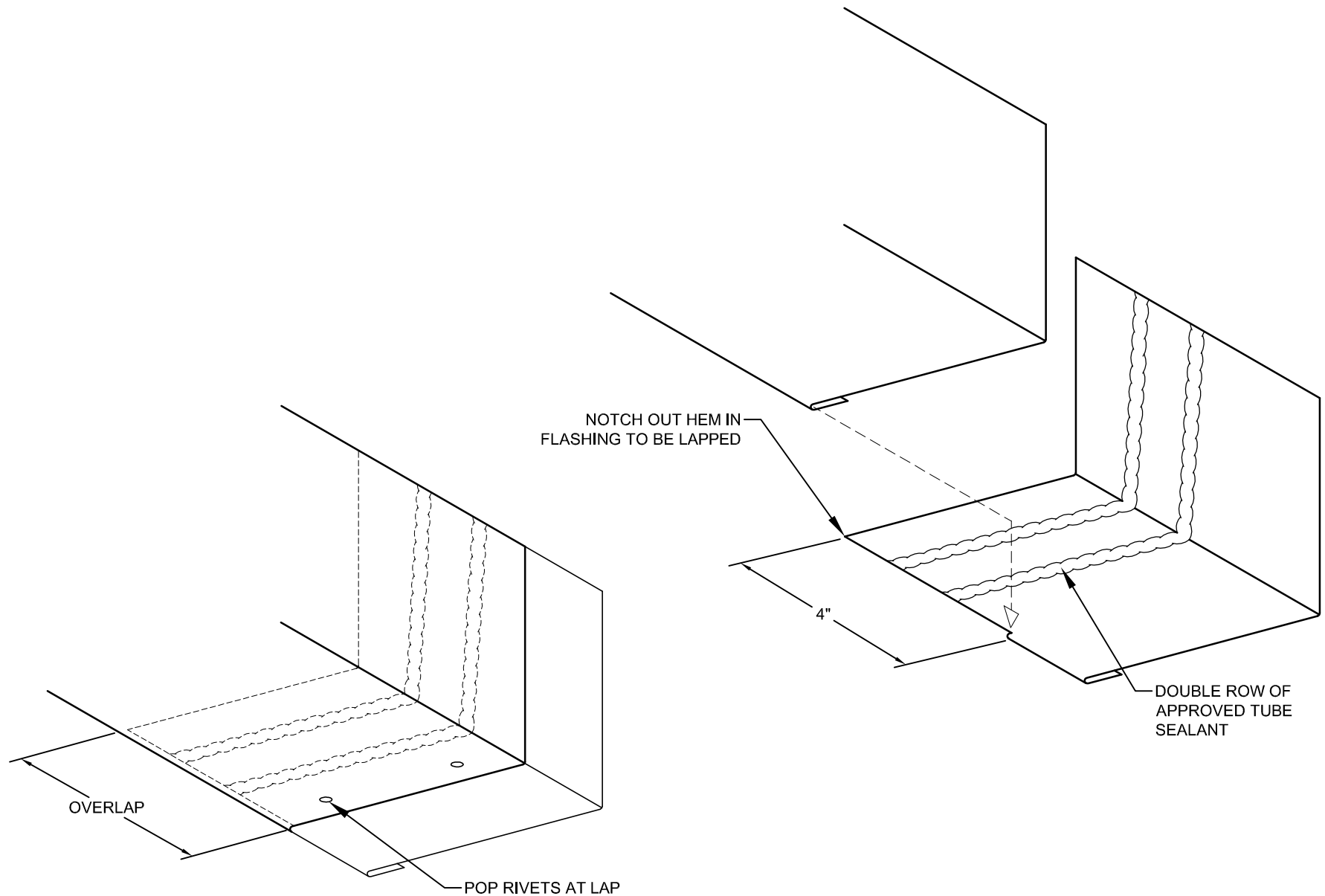
ML150-MD-6.30

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

HIGHWALL LAP DETAIL

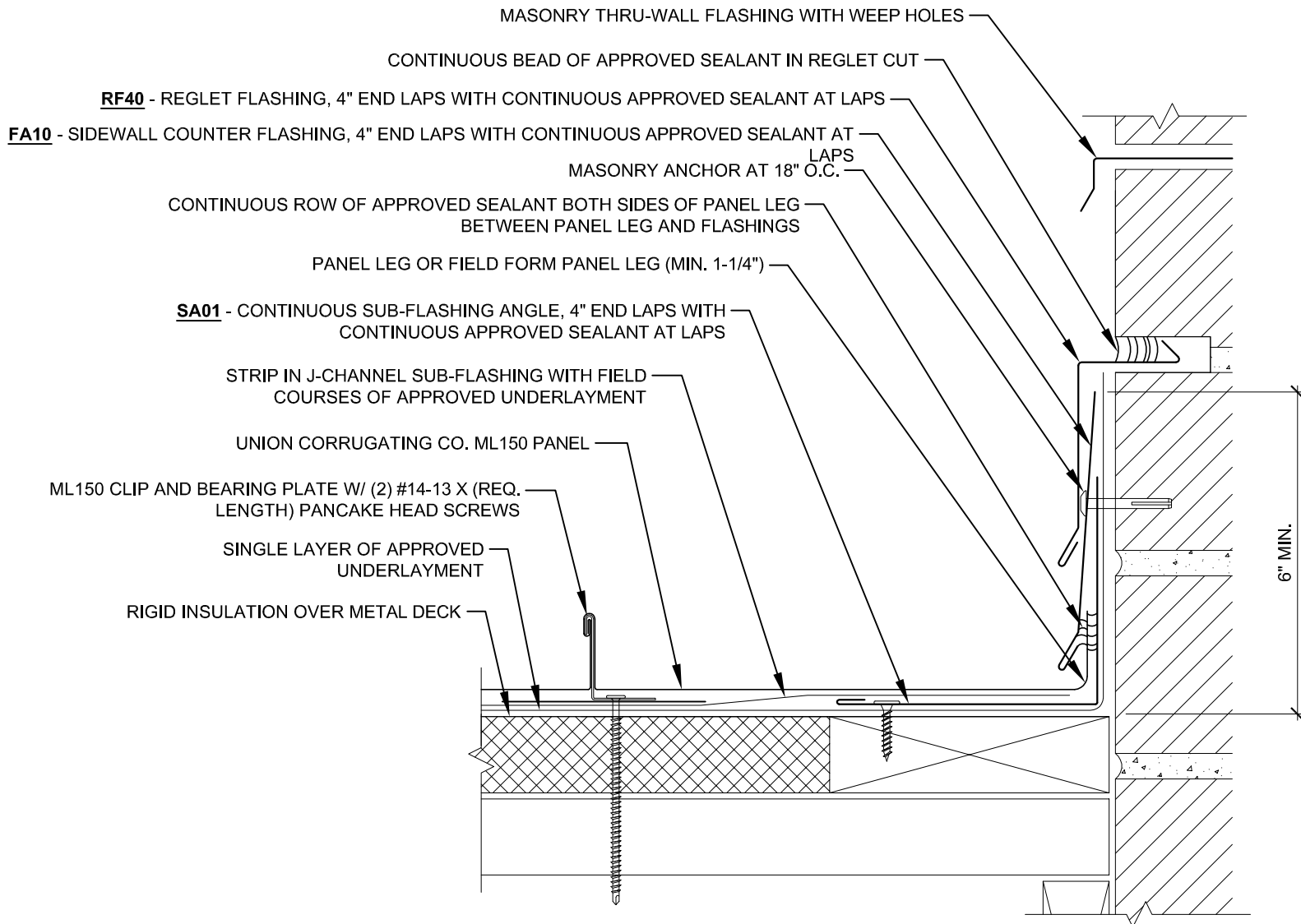
Detail No.:

ML150-6.90

Substrate:

Project Name:

Location:



Description:

SIDEWALL DETAIL - REGLET

Detail No.:

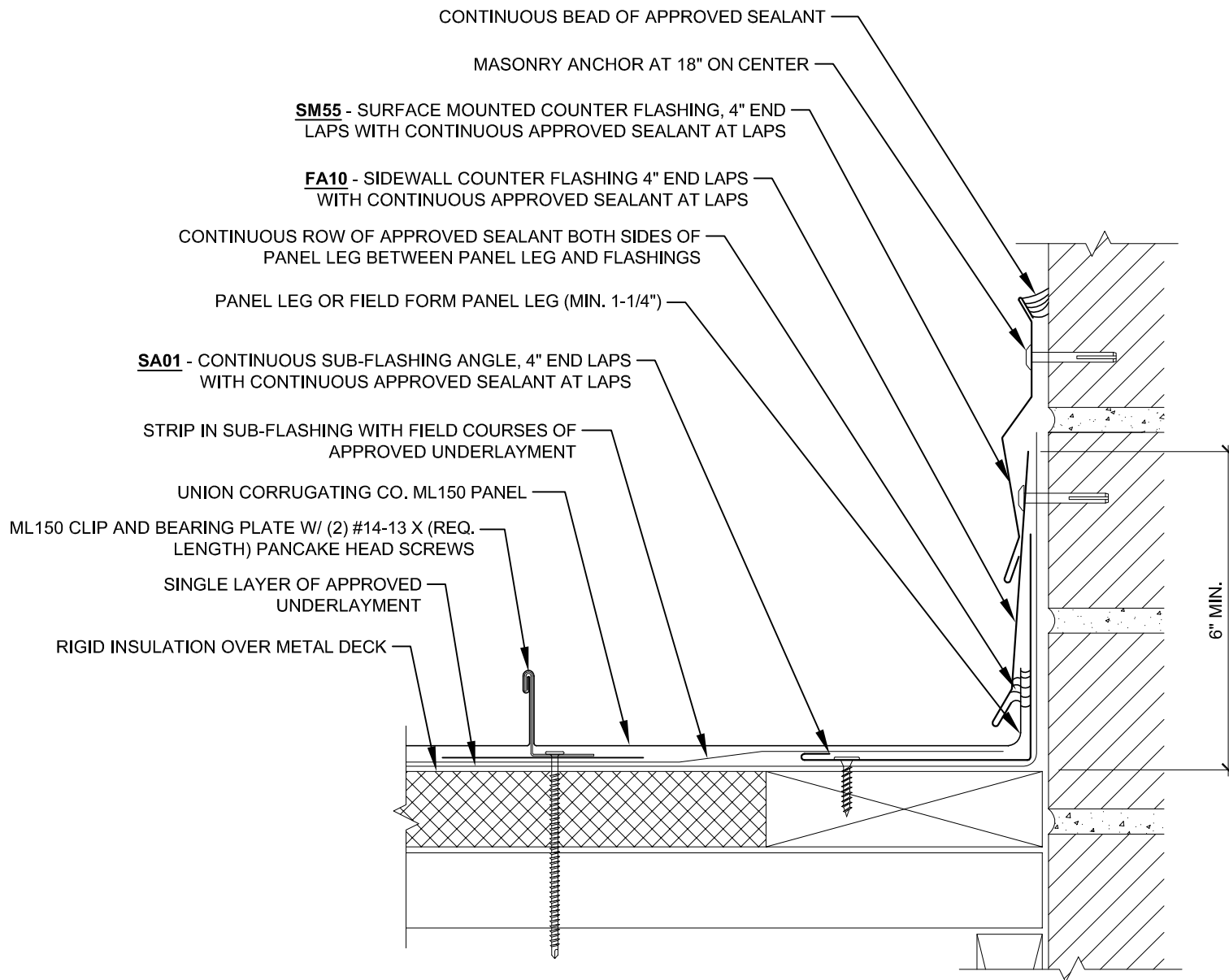
ML150-MD-7.11

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL DETAIL - SURFACE MOUNT

Detail No.:

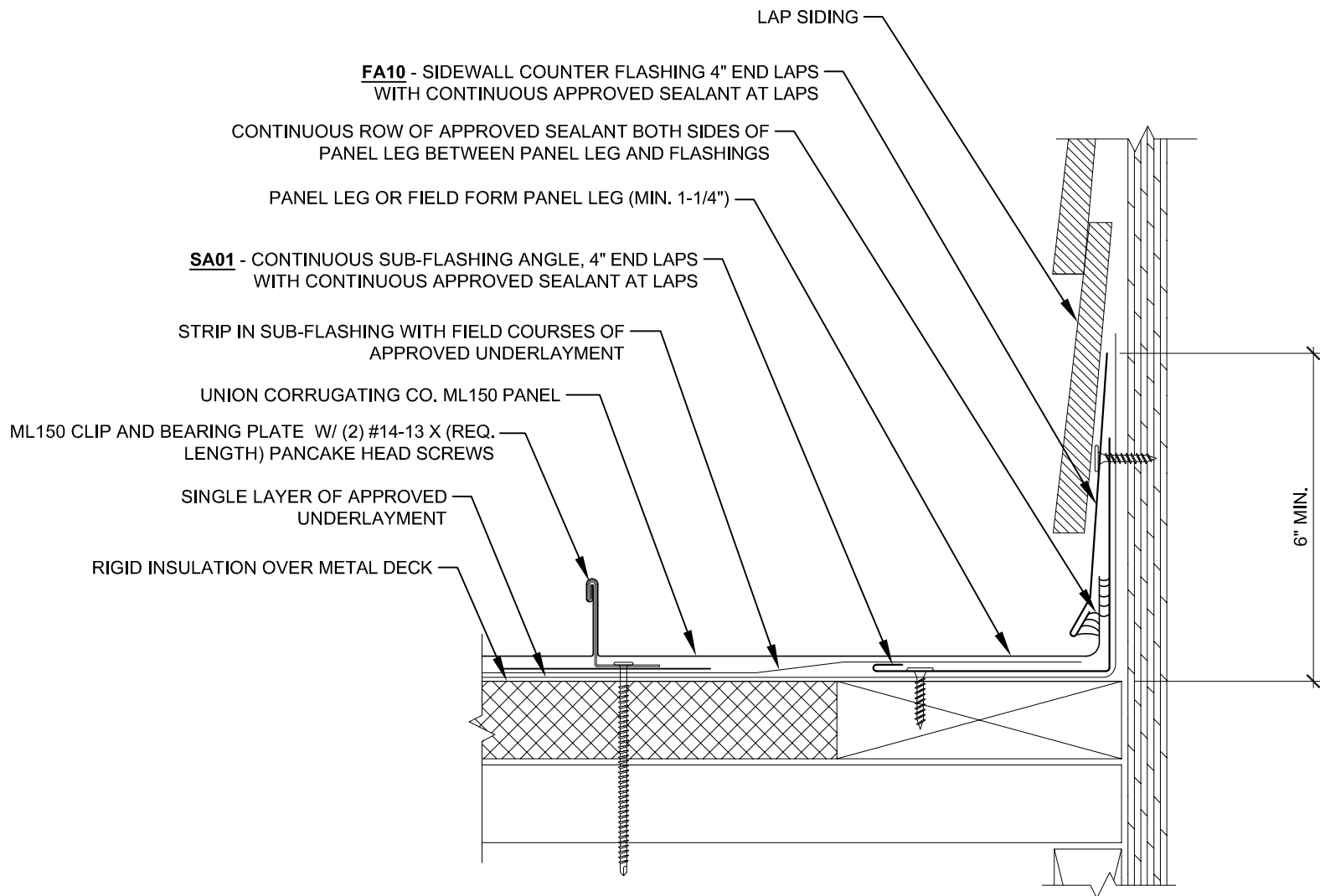
ML150-MD-7.12

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL DETAIL - WOOD FRAMING & SIDING

Substrate:

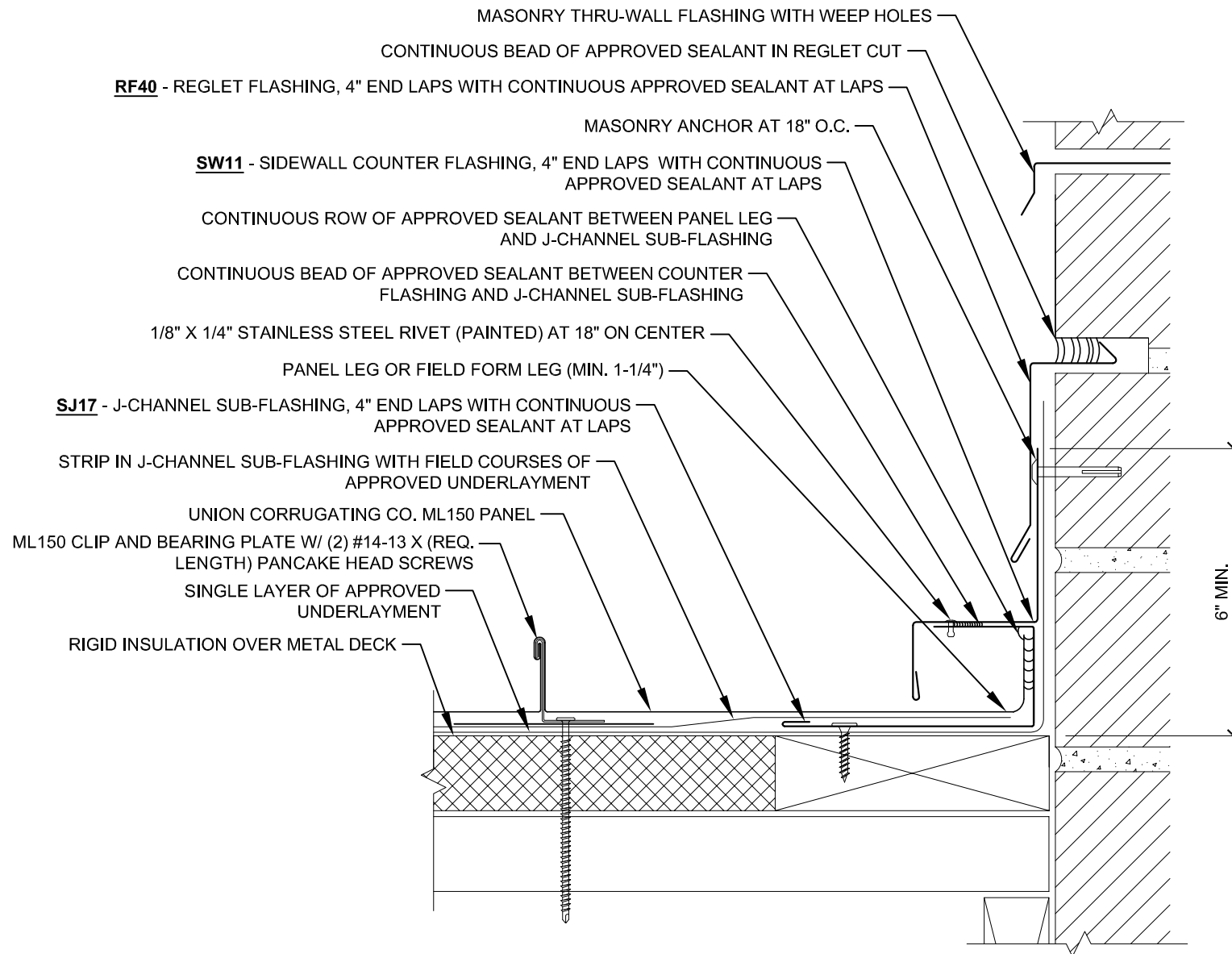
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

ML150-MD-7.13



Description:

SIDEWALL DETAIL - REGLET

Detail No.:

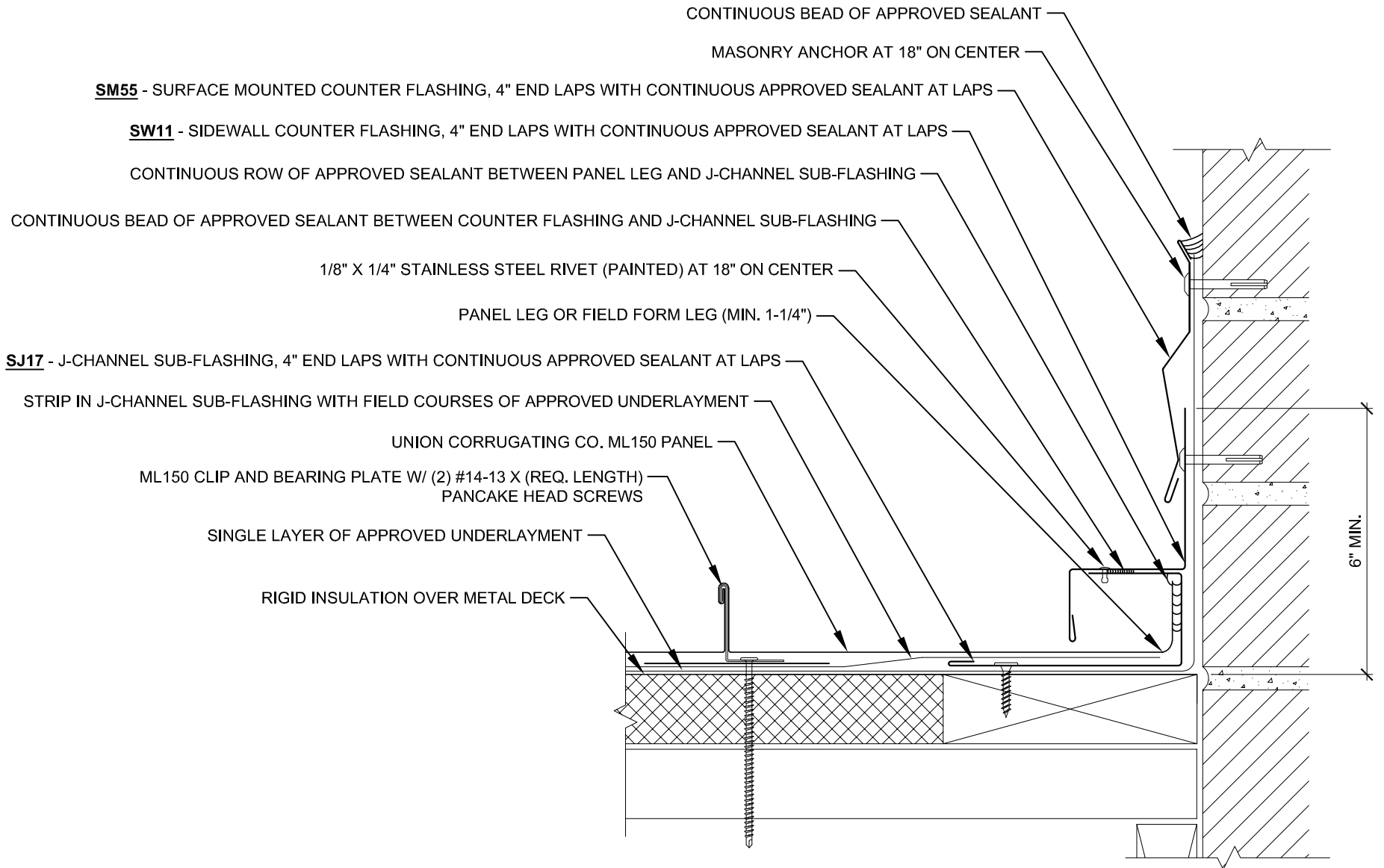
ML150-MD-7.21

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL DETAIL - SURFACE MOUNT

Substrate:

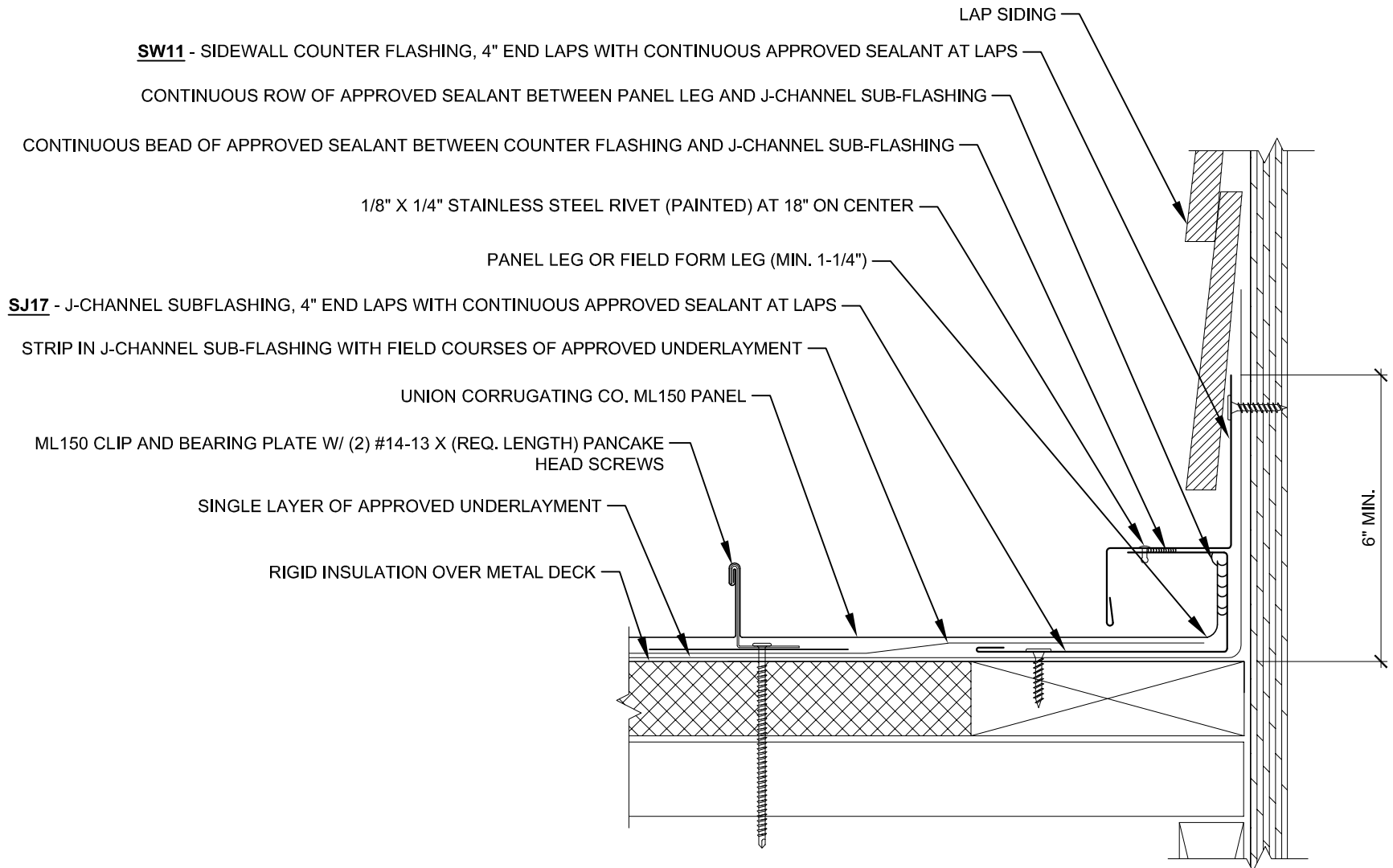
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

ML150-MD-7.22

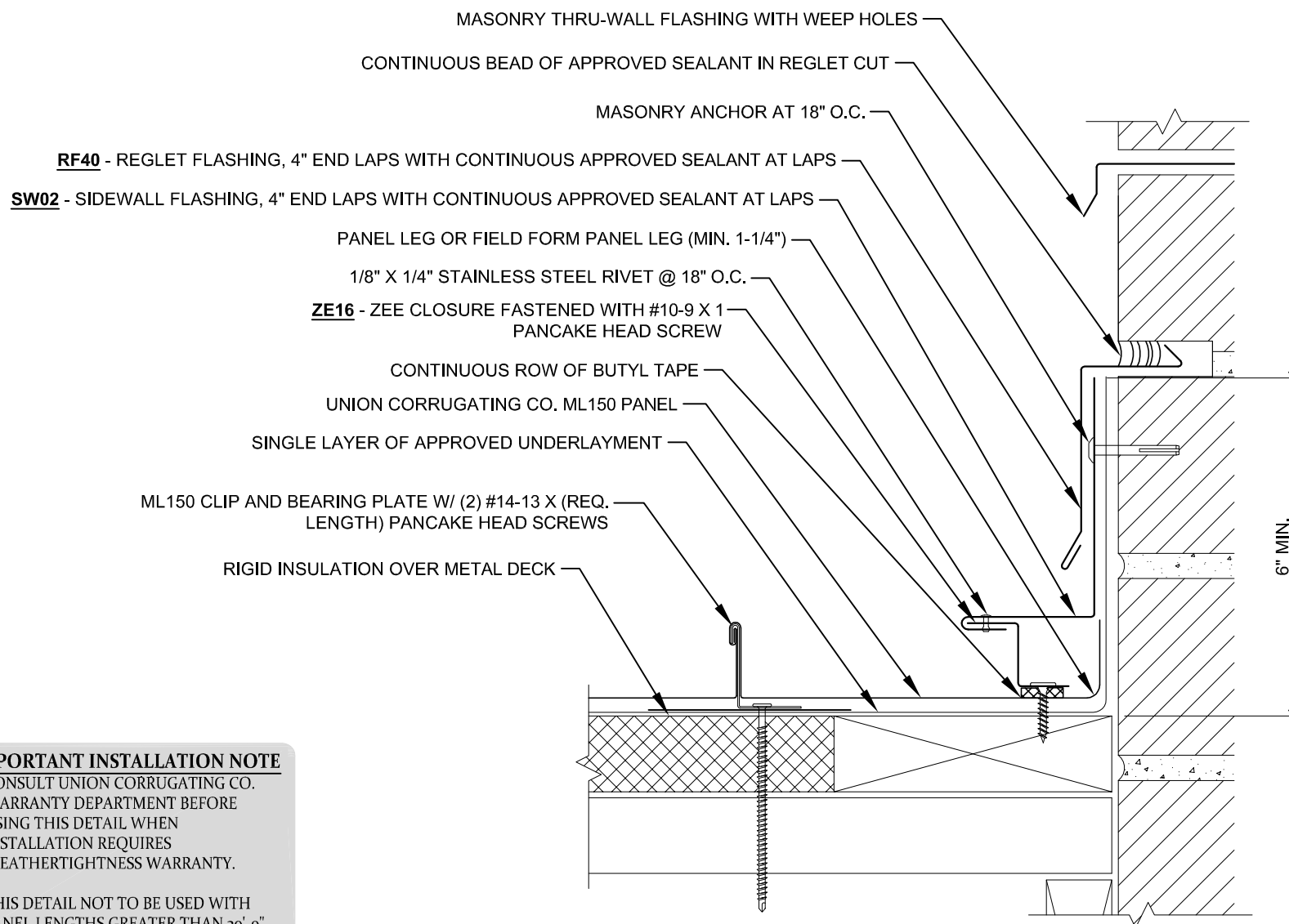


Description: **SIDEWALL DETAIL - WOOD FRAMING & SIDING**

Detail No.: **ML150-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

Substrate:

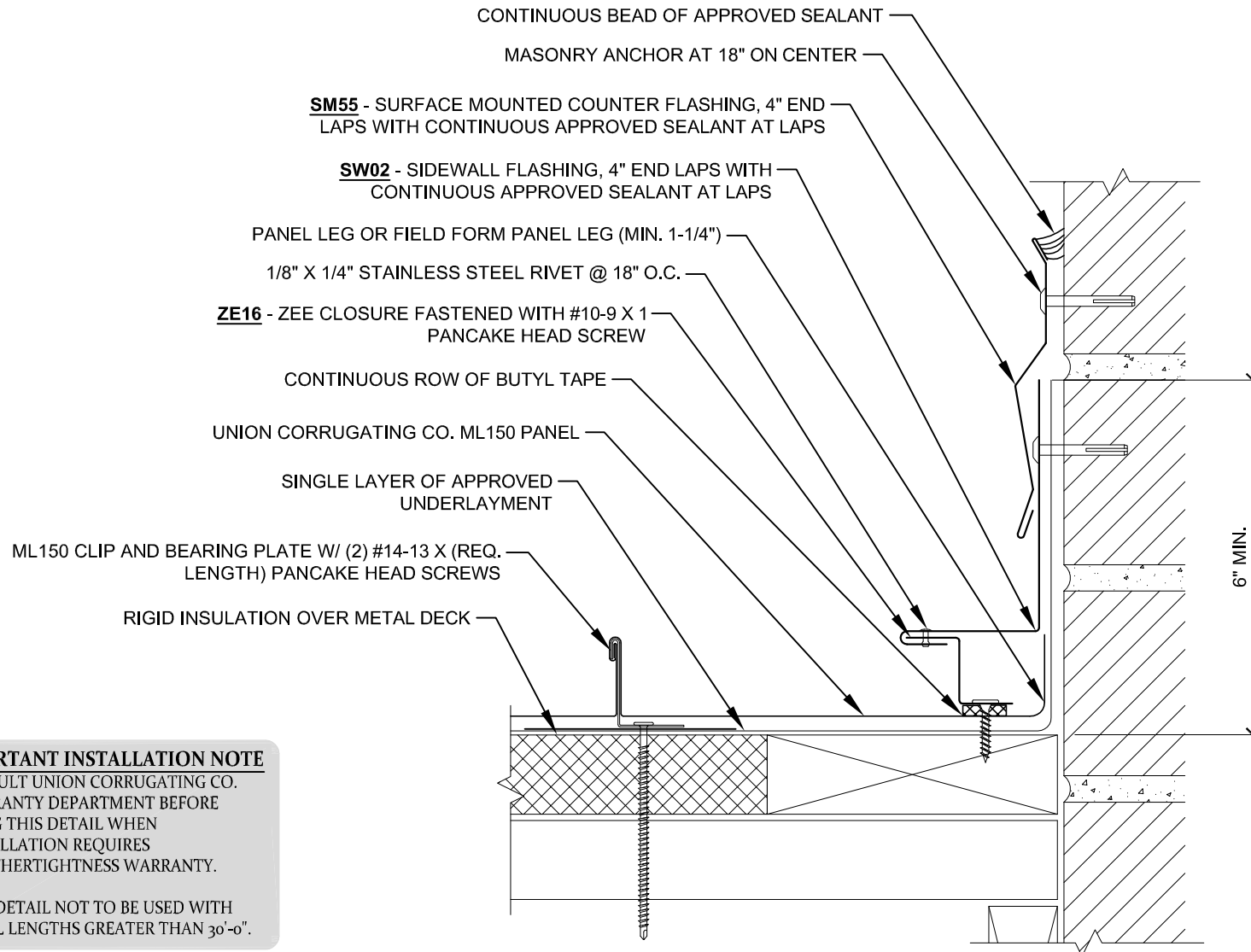
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

ML150-MD-7.31



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:

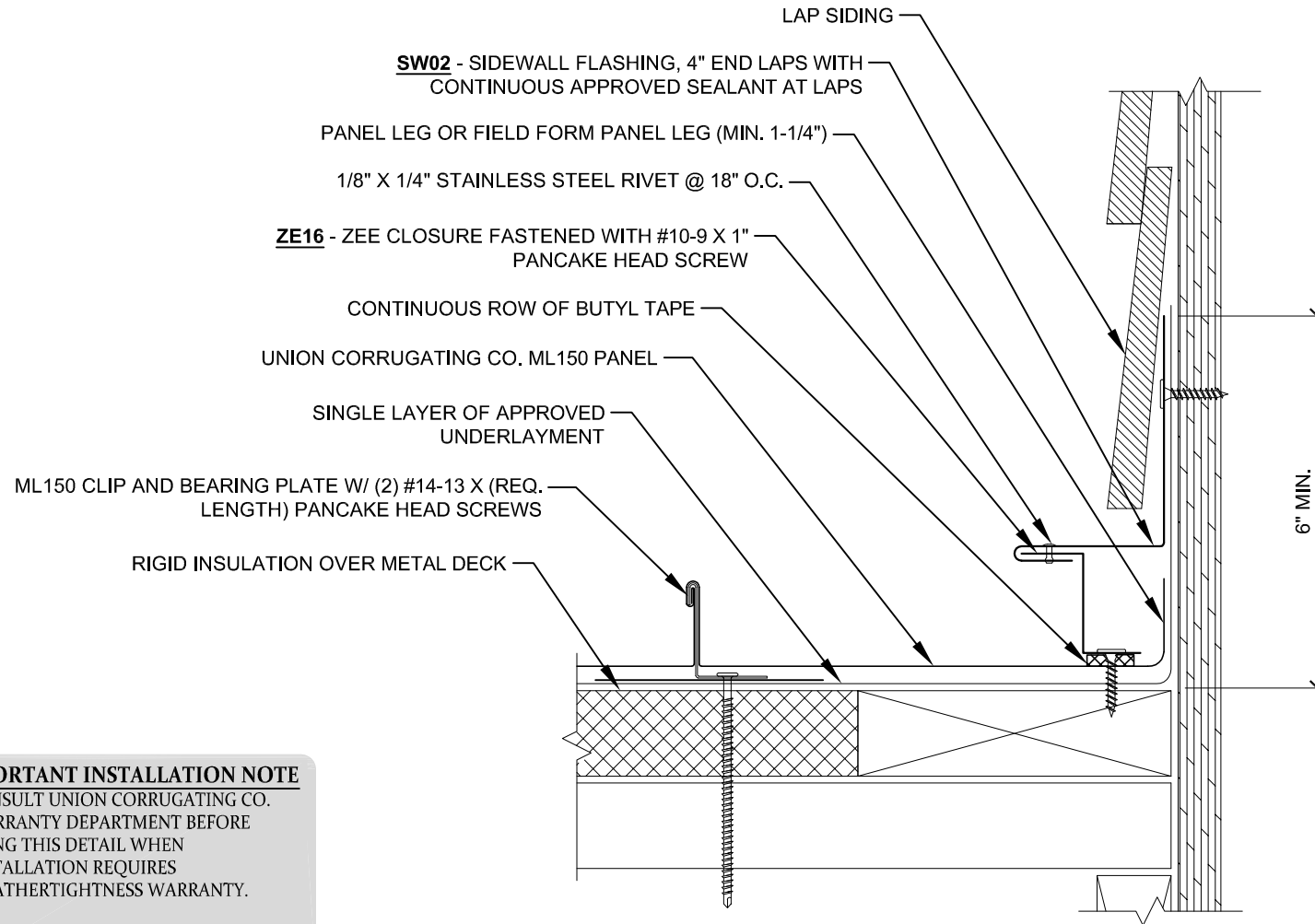
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

ML150-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:

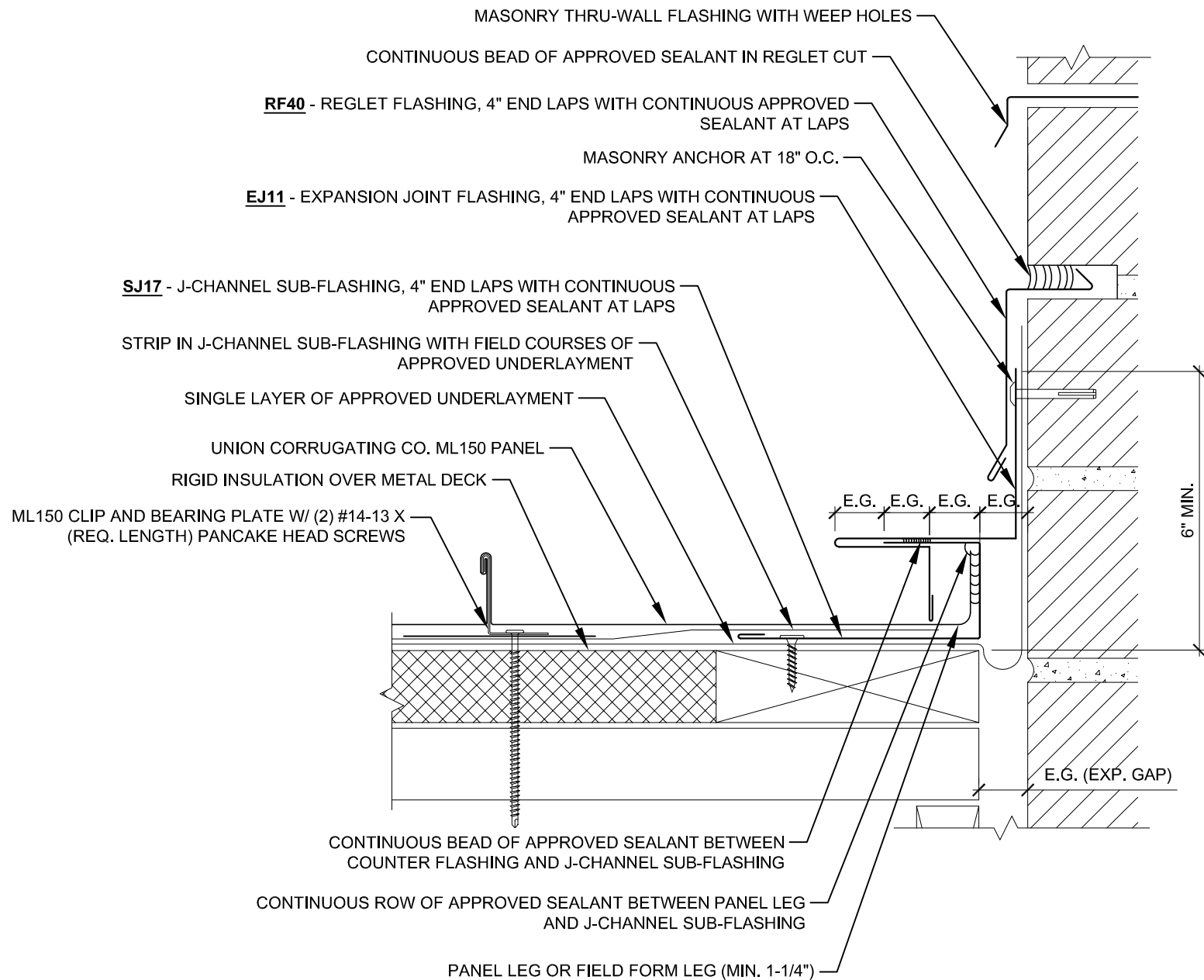
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

ML150-MD-7.33



Description:

SIDEWALL EXPANSION JOINT DETAIL

Detail No.:

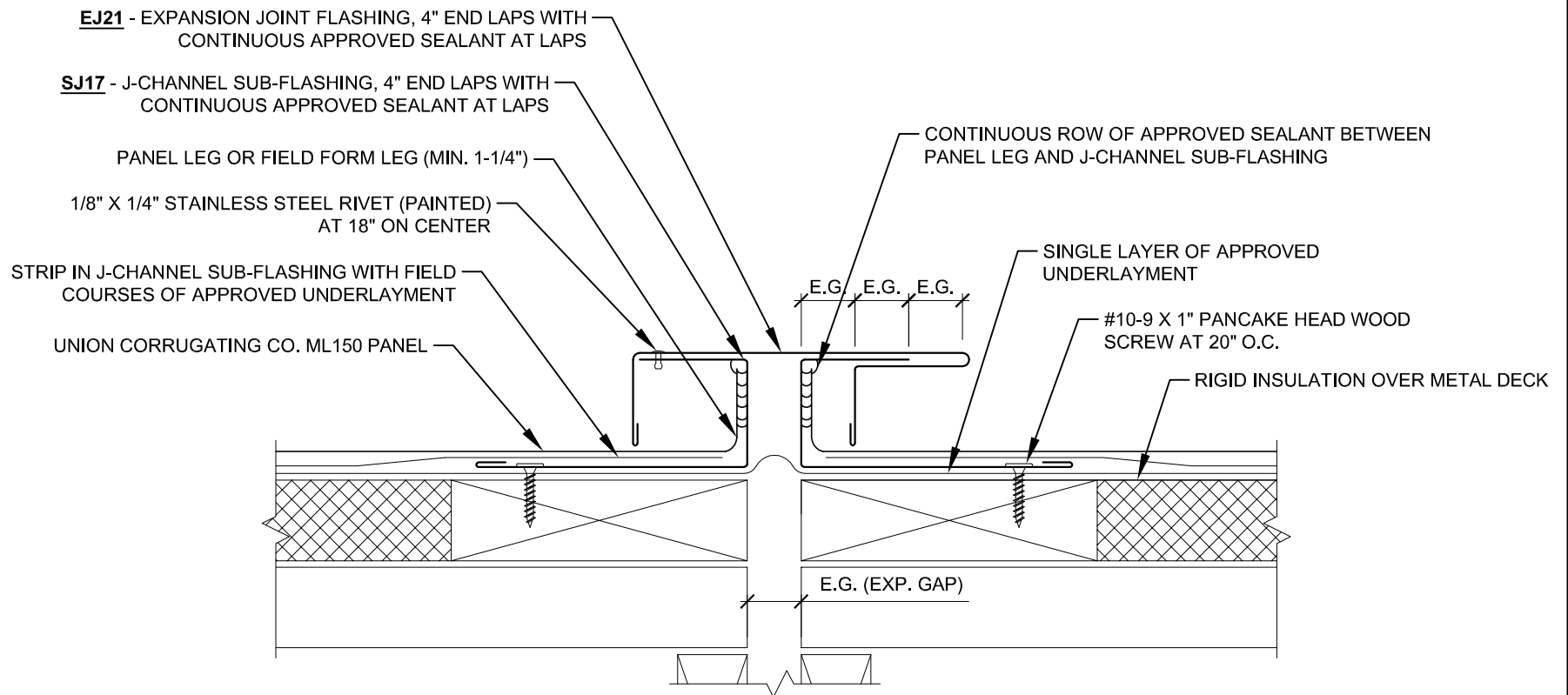
ML150-MD-7.40

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

EXPANSION JOINT (MID-ROOF)

Detail No.:

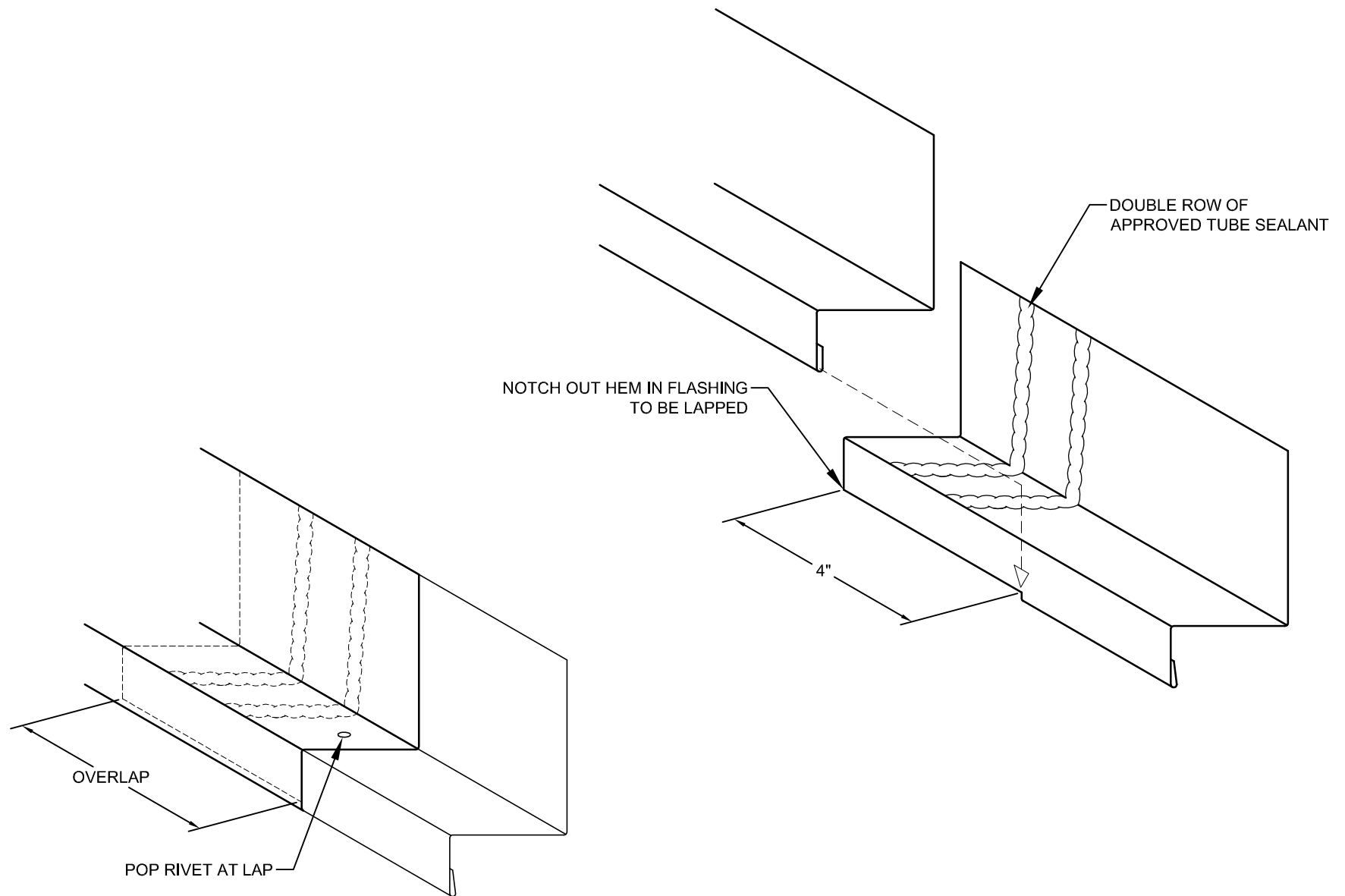
ML150-MD-7.50

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

SIDEWALL LAP DETAIL

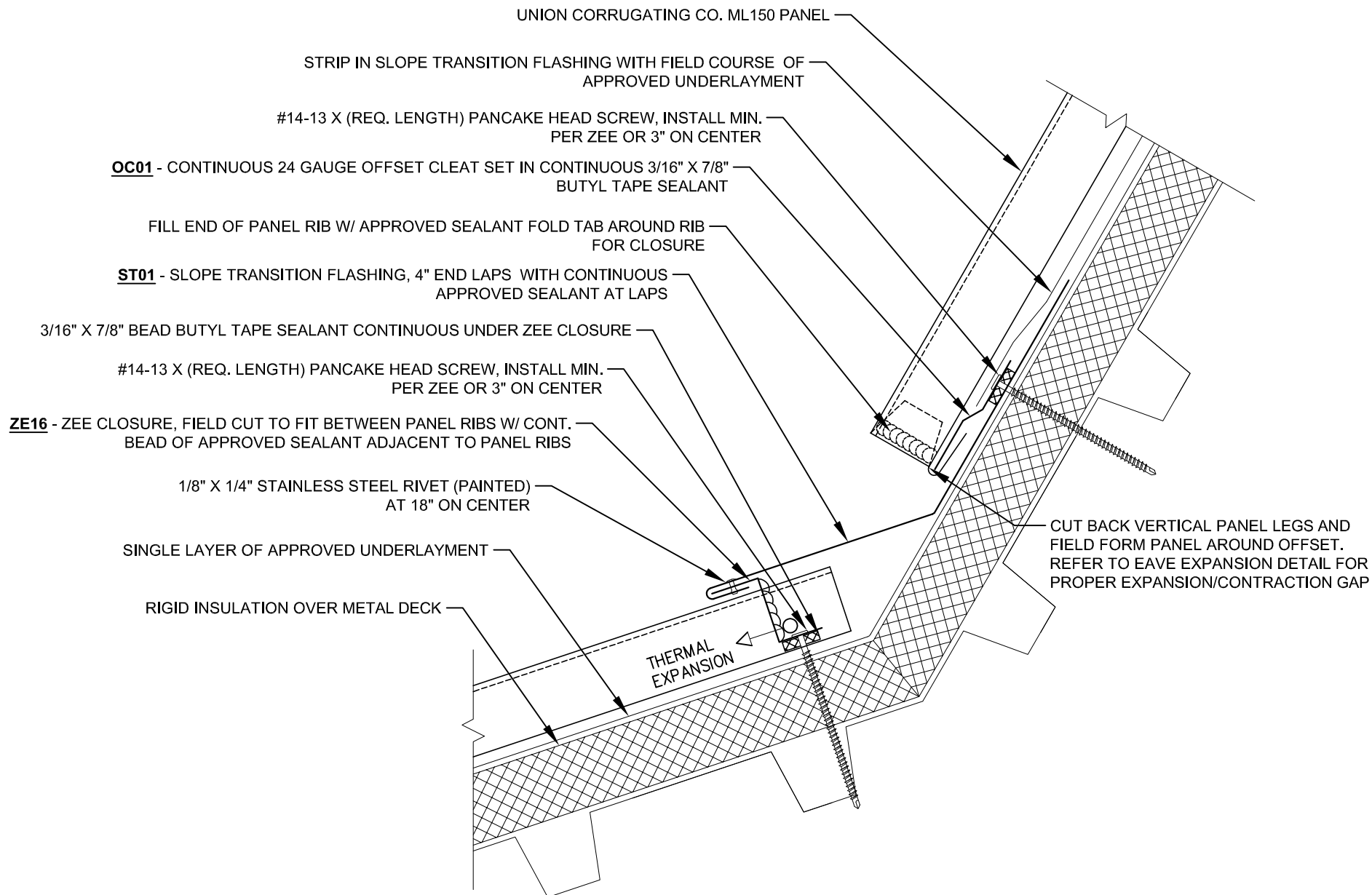
Detail No.:

ML150-7.90

Substrate:

Project Name:

Location:



Description:

SLOPE TRANSITION DETAIL

Detail No.:

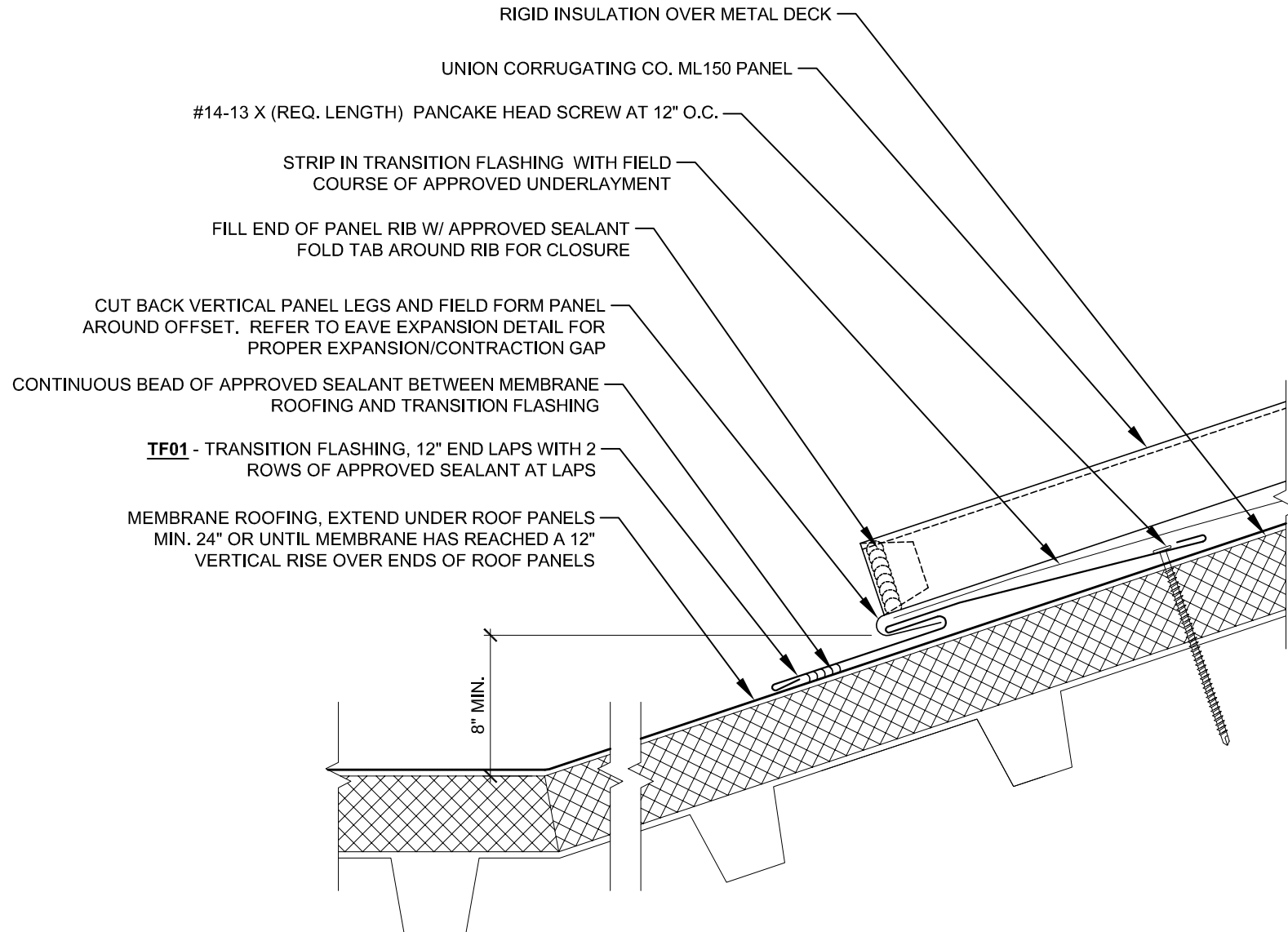
ML150-MD-8.10

Substrate:

RIGID INSULATION OVER METAL DECK

Project Name:

Location:



Description:

TRANSITION AT MEMBRANE ROOFING

Detail No.:

ML150-MD-8.20

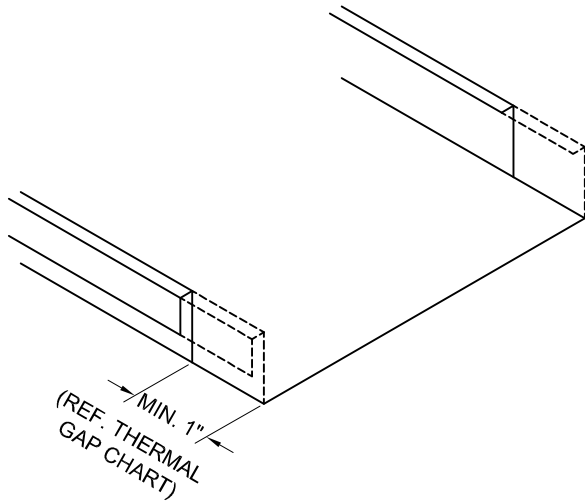
Substrate:

RIGID INSULATION OVER METAL DECK

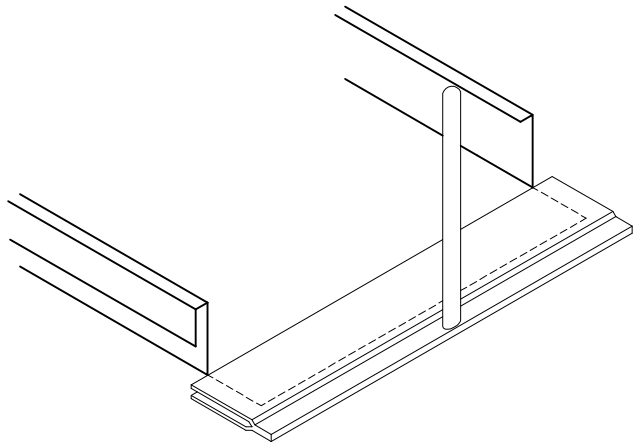
Project Name:

Location:

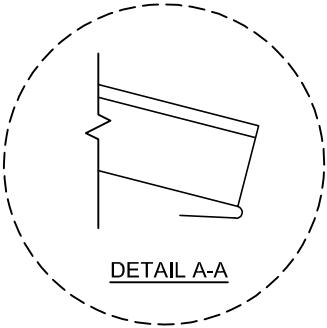
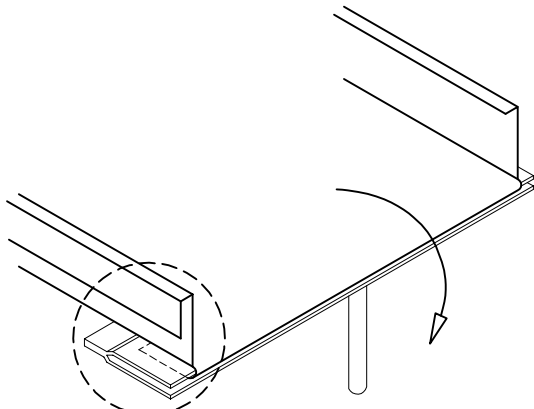
STEP 1: FIELD NOTCH RIBS AND REMOVE



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.:

ML150-10.10

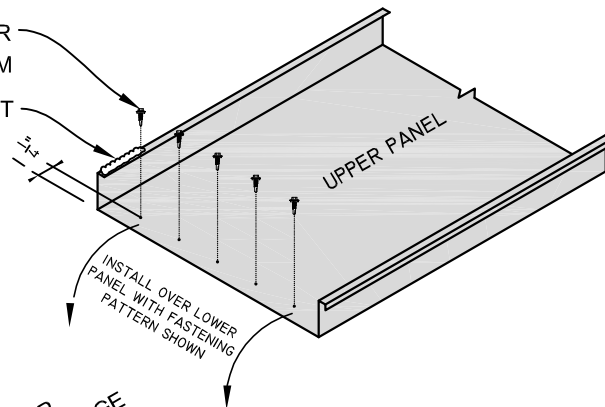
Substrate:

Project Name:

Location:

#14 x $\frac{7}{8}$ " HWH LAP TEK FASTENER W/ WASHER
ZINC CAPPED-(PAINTED) 3 $\frac{1}{4}$ " O.C. MINIMUM

ROW OF APPROVED TUBE SEALANT

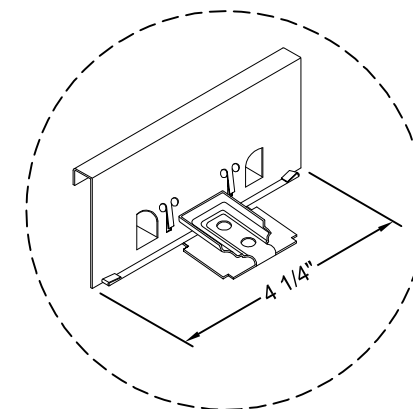
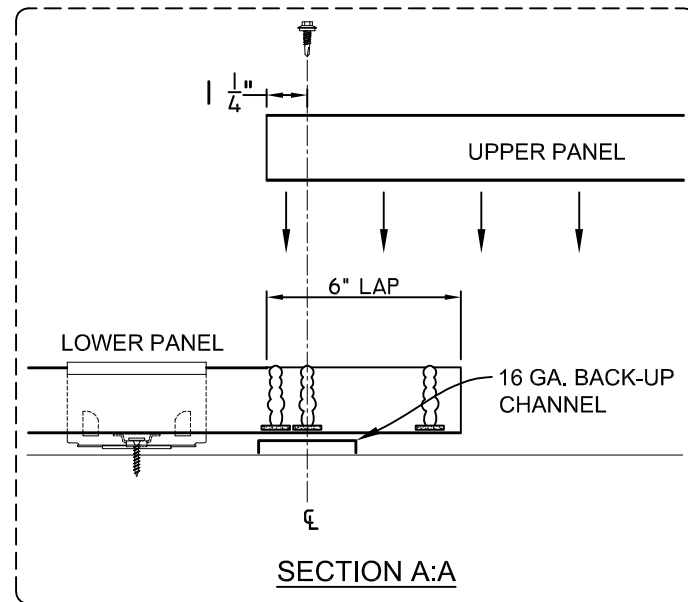
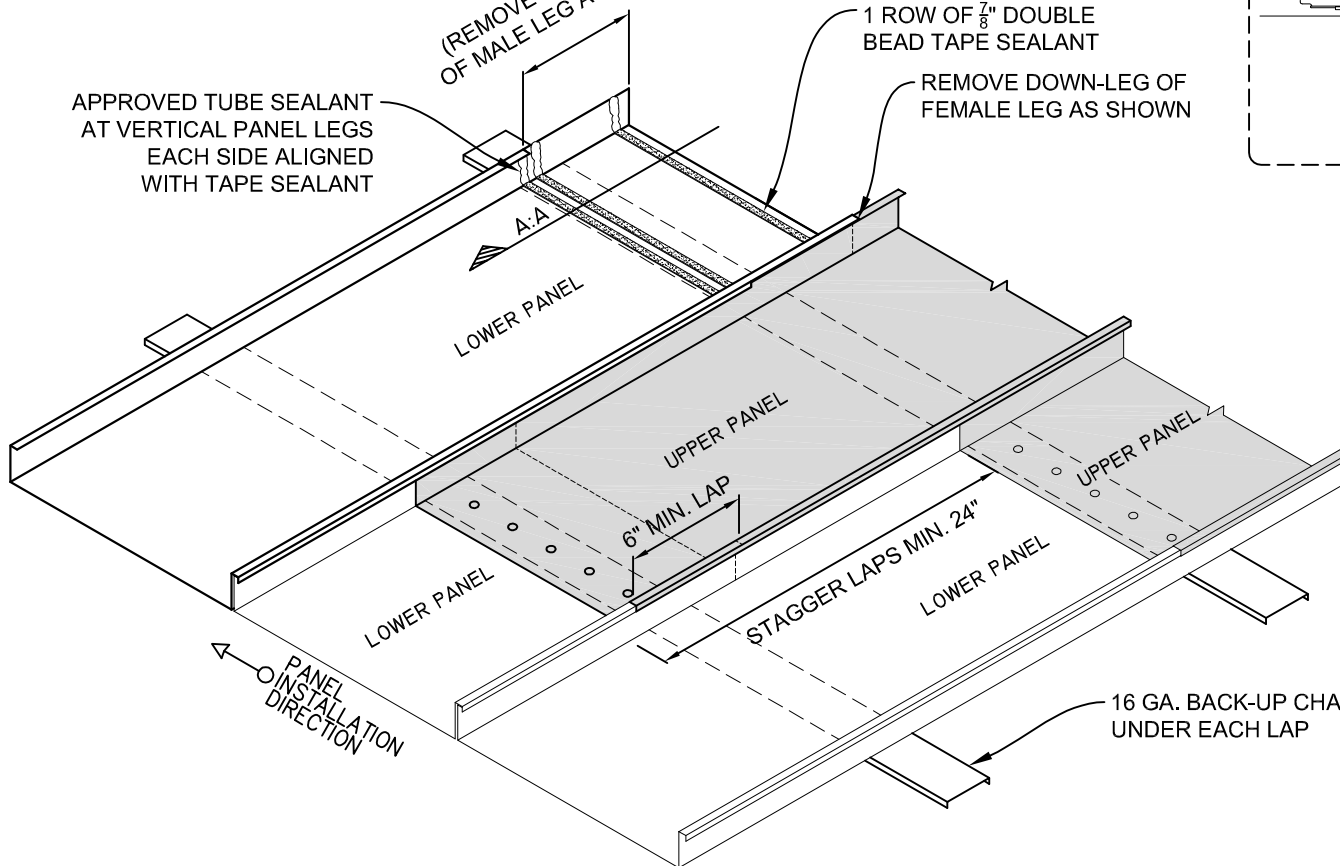


6" MIN. LAP
(REMOVE TOP FLANGE
OF MALE LEG AS SHOWN)

APPROVED TUBE SEALANT
AT VERTICAL PANEL LEGS
EACH SIDE ALIGNED
WITH TAPE SEALANT

1 ROW OF $\frac{7}{8}$ " DOUBLE
BEAD TAPE SEALANT

REMOVE DOWN-LEG OF
FEMALE LEG AS SHOWN



FOR USE WITH ML150
EXPANSION CLIP



Description:

PANEL LAP DETAIL - LOW SLOPE (LESS THAN 3:12)

Substrate:

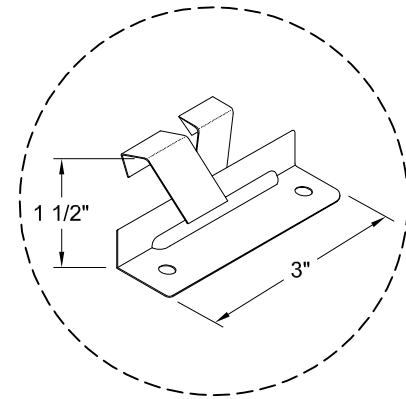
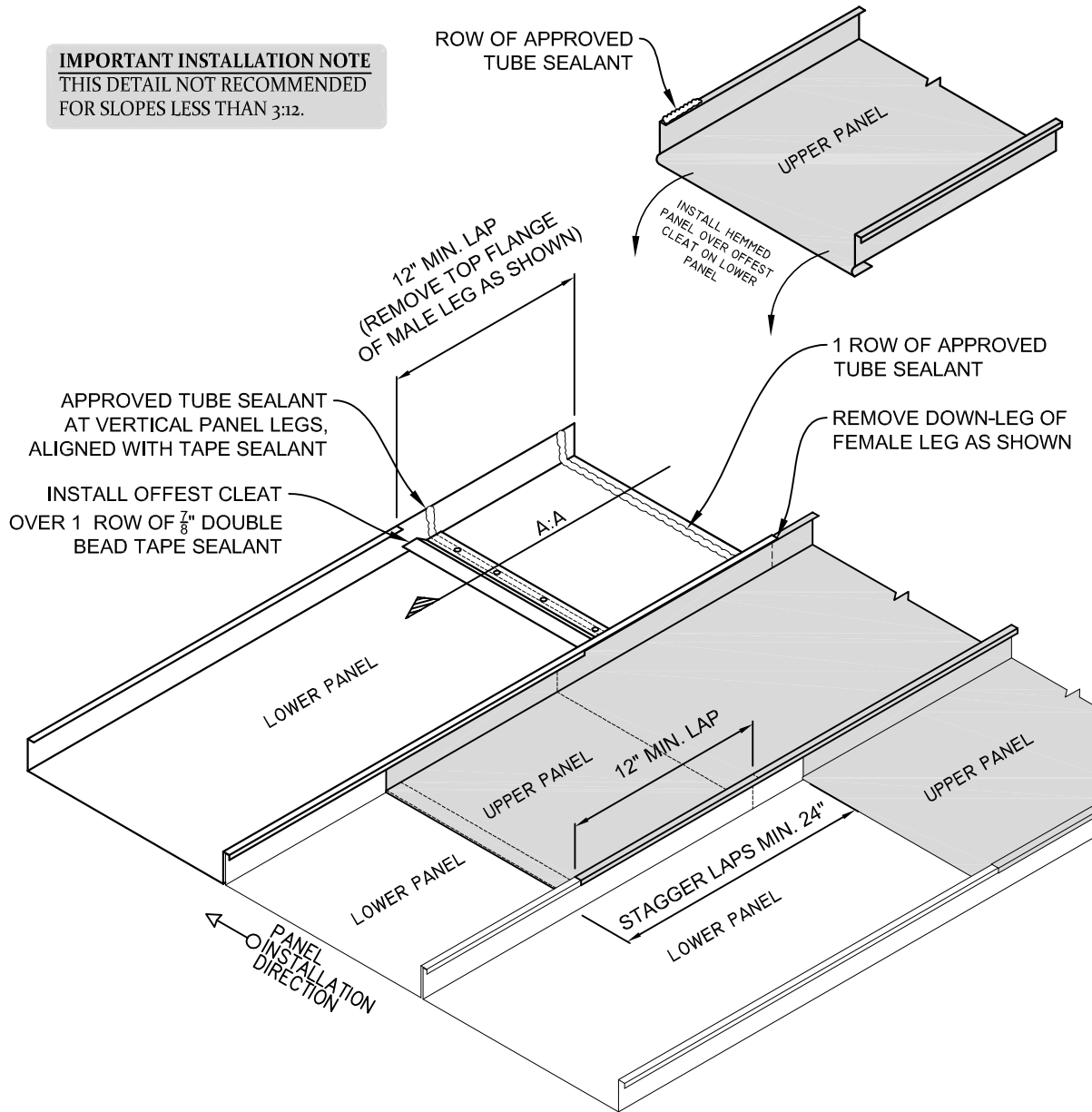
Project Name:

Location:

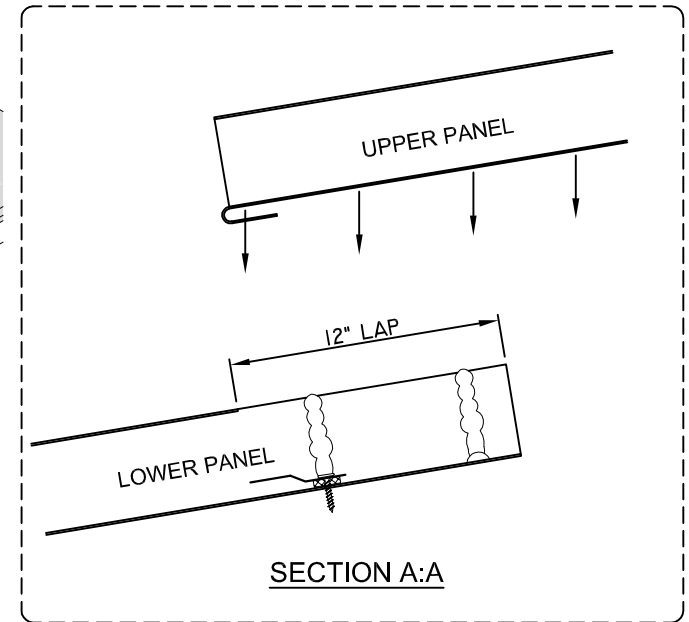
Detail No.:

ML150-LAP-10.14

IMPORTANT INSTALLATION NOTE
THIS DETAIL NOT RECOMMENDED
FOR SLOPES LESS THAN 3:12.



FOR USE WITH ML150
BUTTERFLY EXPANSION CLIP



Description:

PANEL LAP DETAIL - STEEP SLOPE

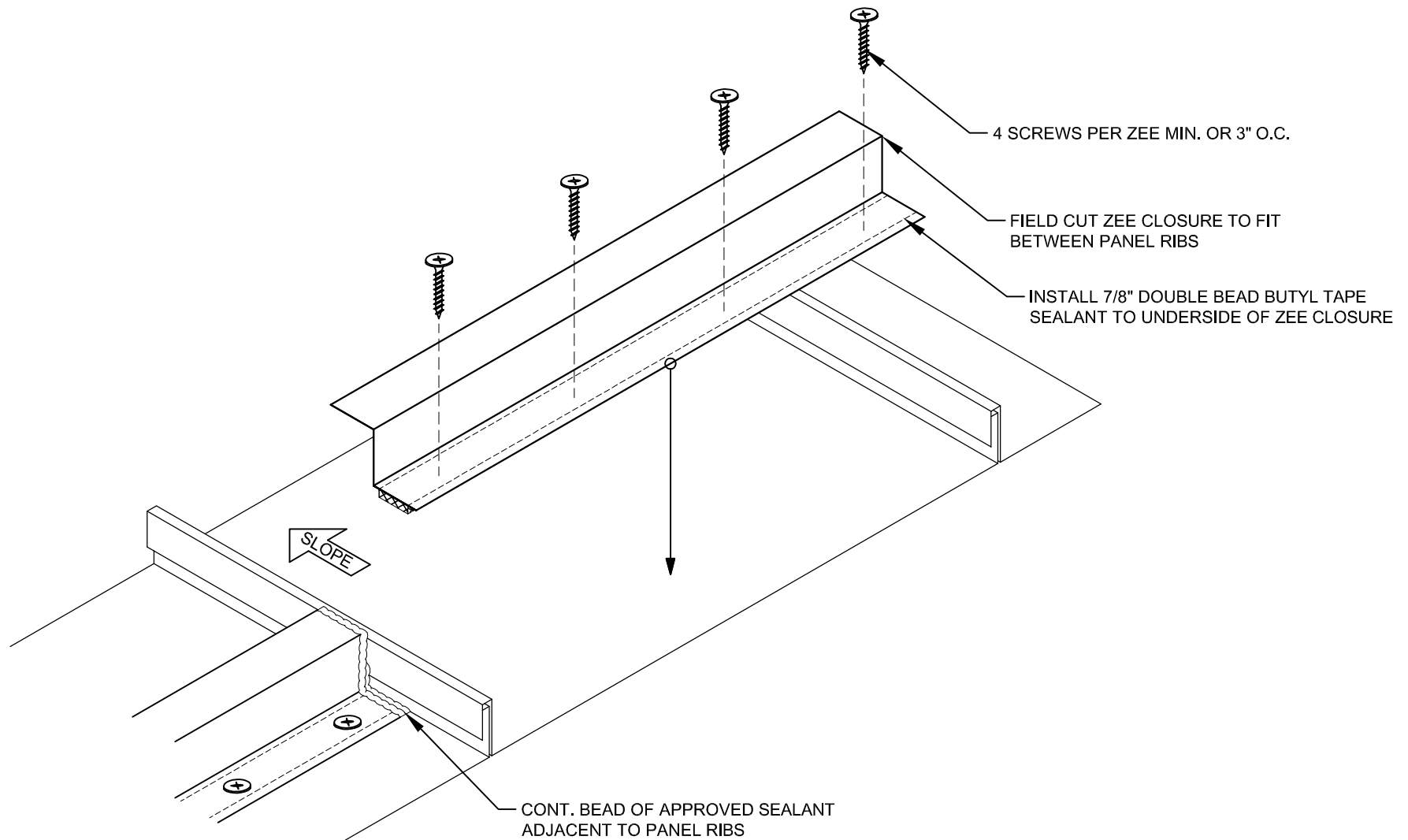
Detail No.:

ML150-LAP-10.15

Substrate:

Project Name:

Location:



Description:

ZEE CLOSURE INSTALLATION

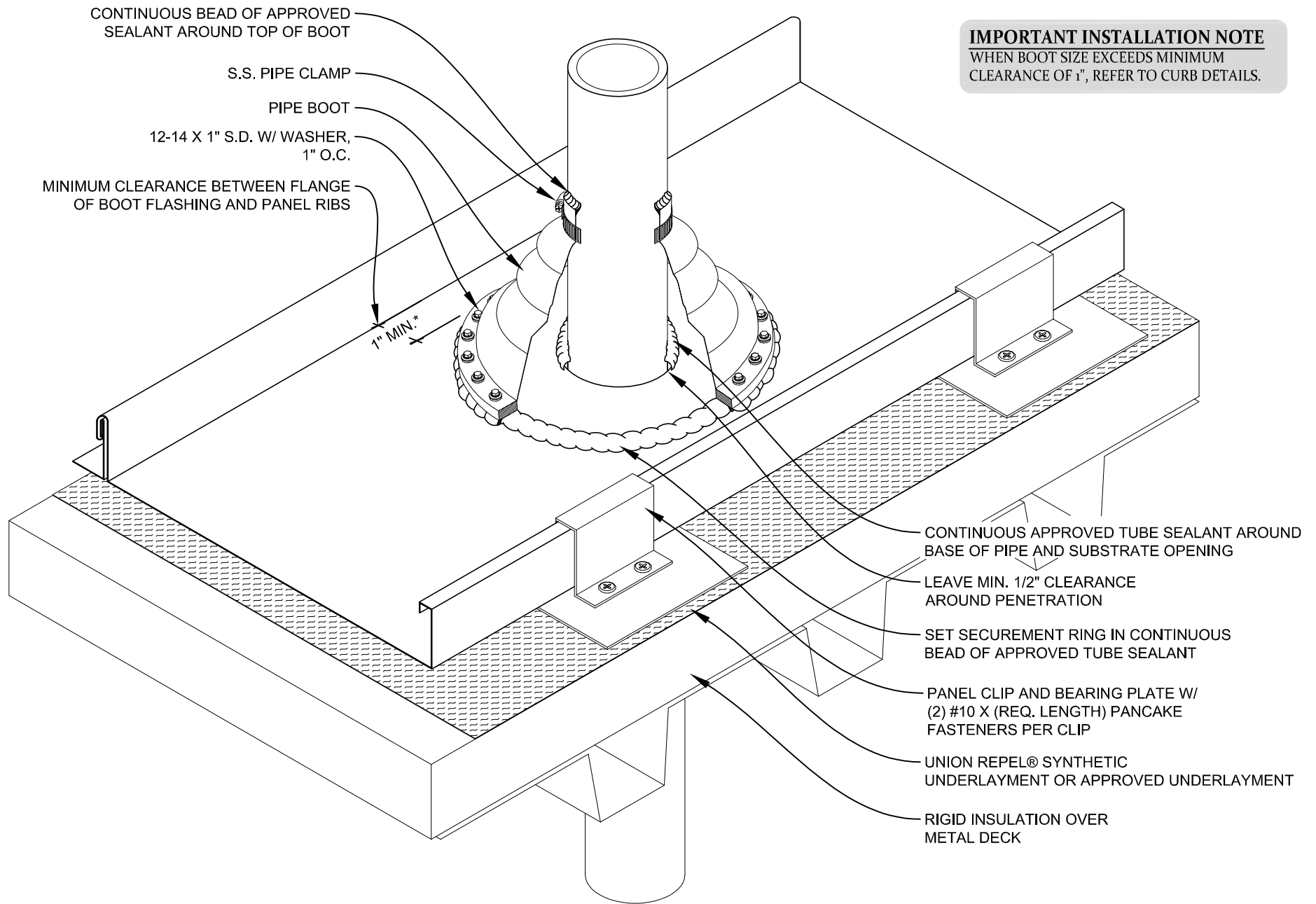
Detail No.:

ML150-10.20

Substrate:

Project Name:

Location:



Description:

PIPE PENETRATION

Detail No.:

ML150-MD-10.30

Substrate:

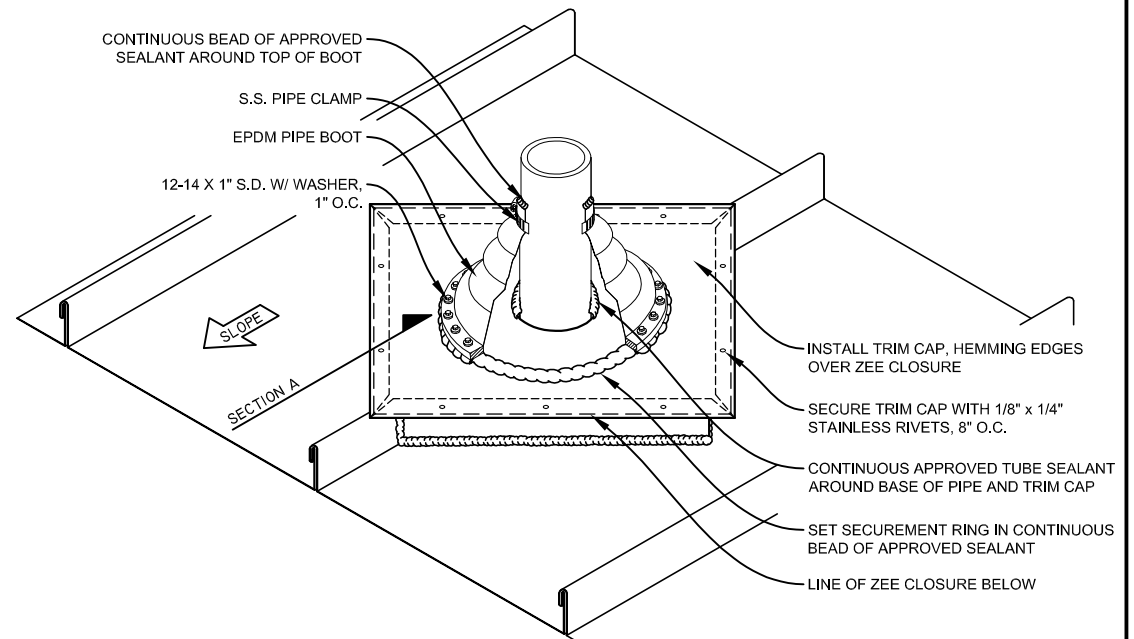
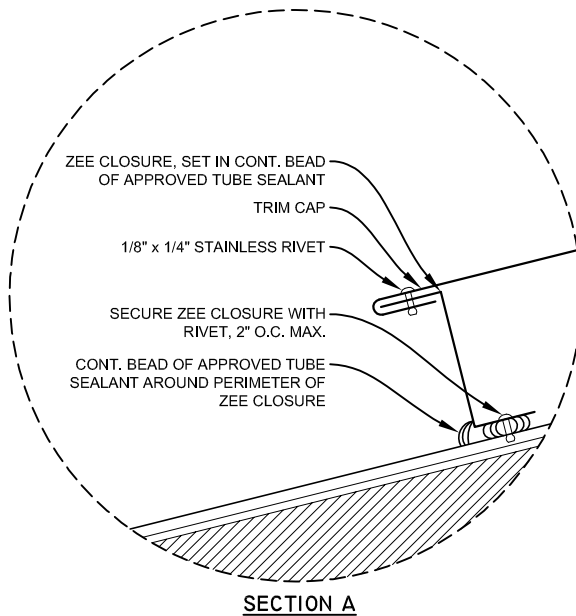
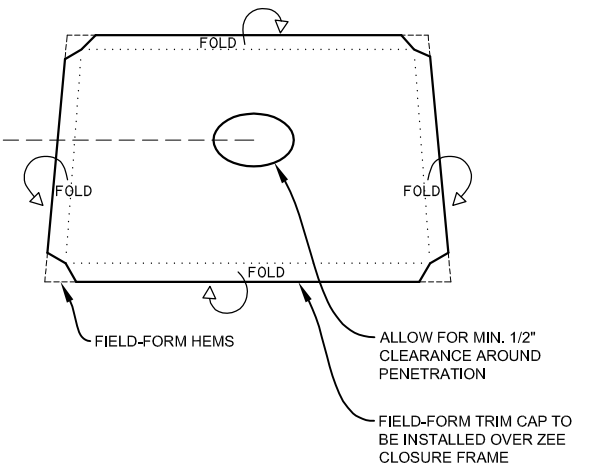
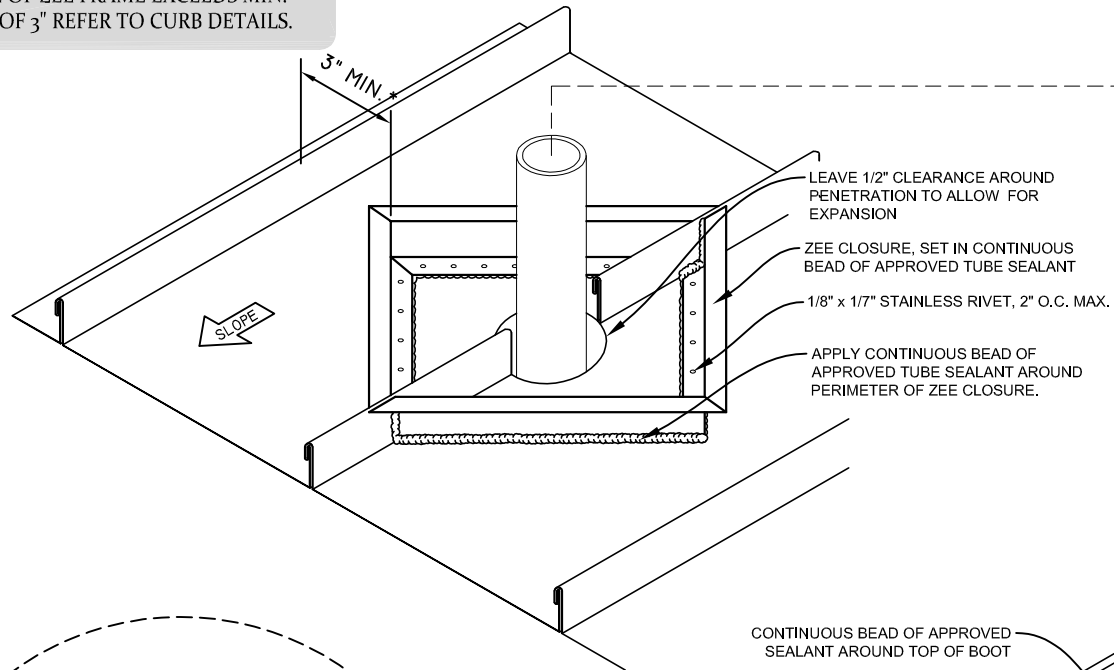
RIGID INSULATION OVER METAL DECK

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

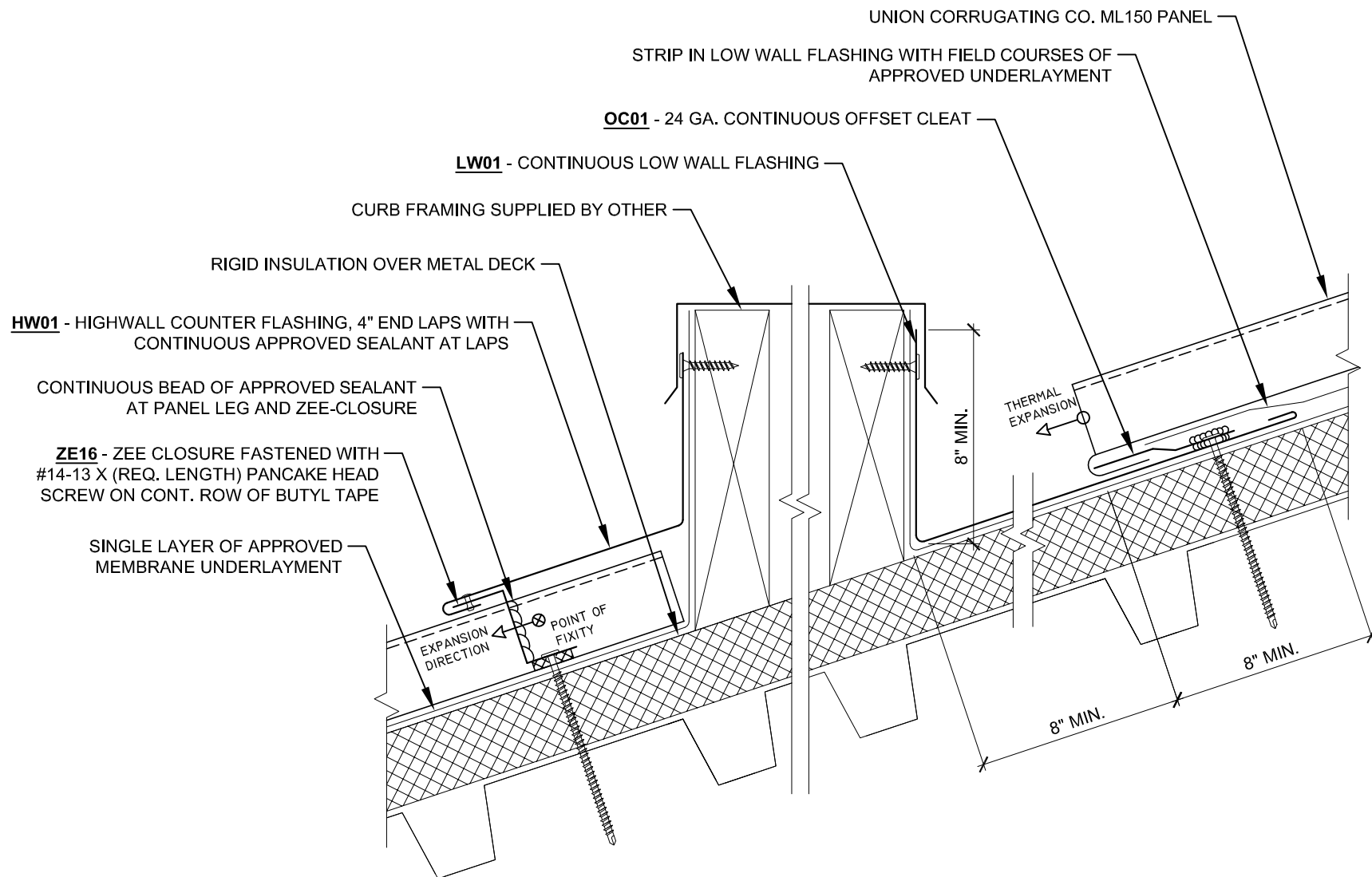
Detail No.:

ML150-10.31

Substrate:

Project Name:

Location:



Description: **LOW WALL & HIGHWALL @ SQUARE PENETRATION**

Substrate: **RIGID INSULATION OVER METAL DECK**

Project Name:

Location:

Detail No.: **ML150-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")

ZE16- ZEE CLOSURE FASTENED WITH #14-13 X
(REQ. LENGTH) PANCAKE HEAD SCREW

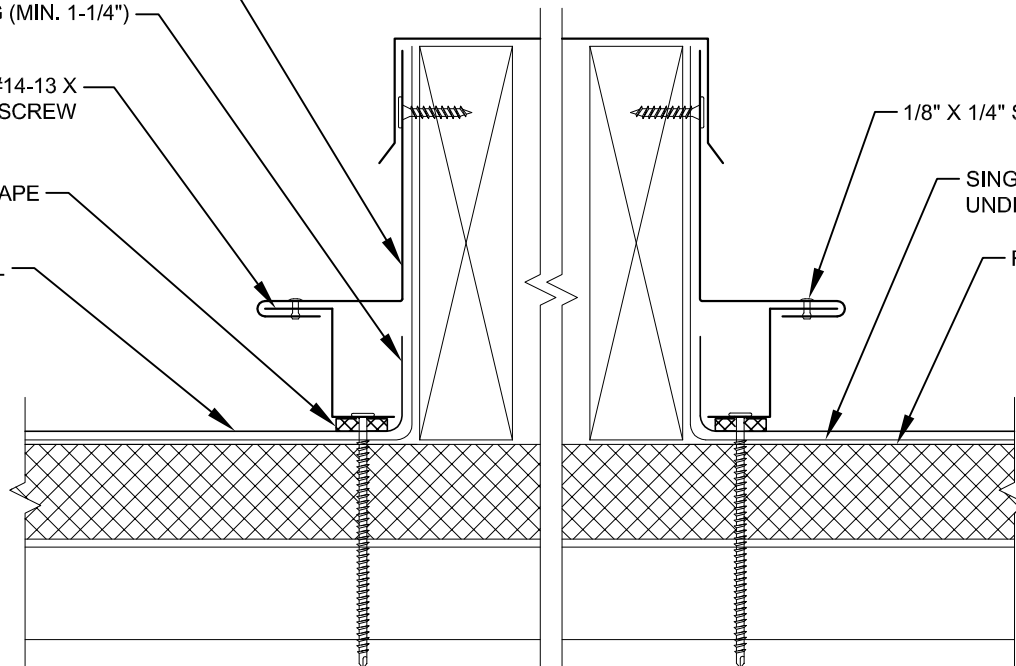
CONTINUOUS ROW OF BUTYL TAPE

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

Detail No.:

ML150-MD-10.41

Substrate:

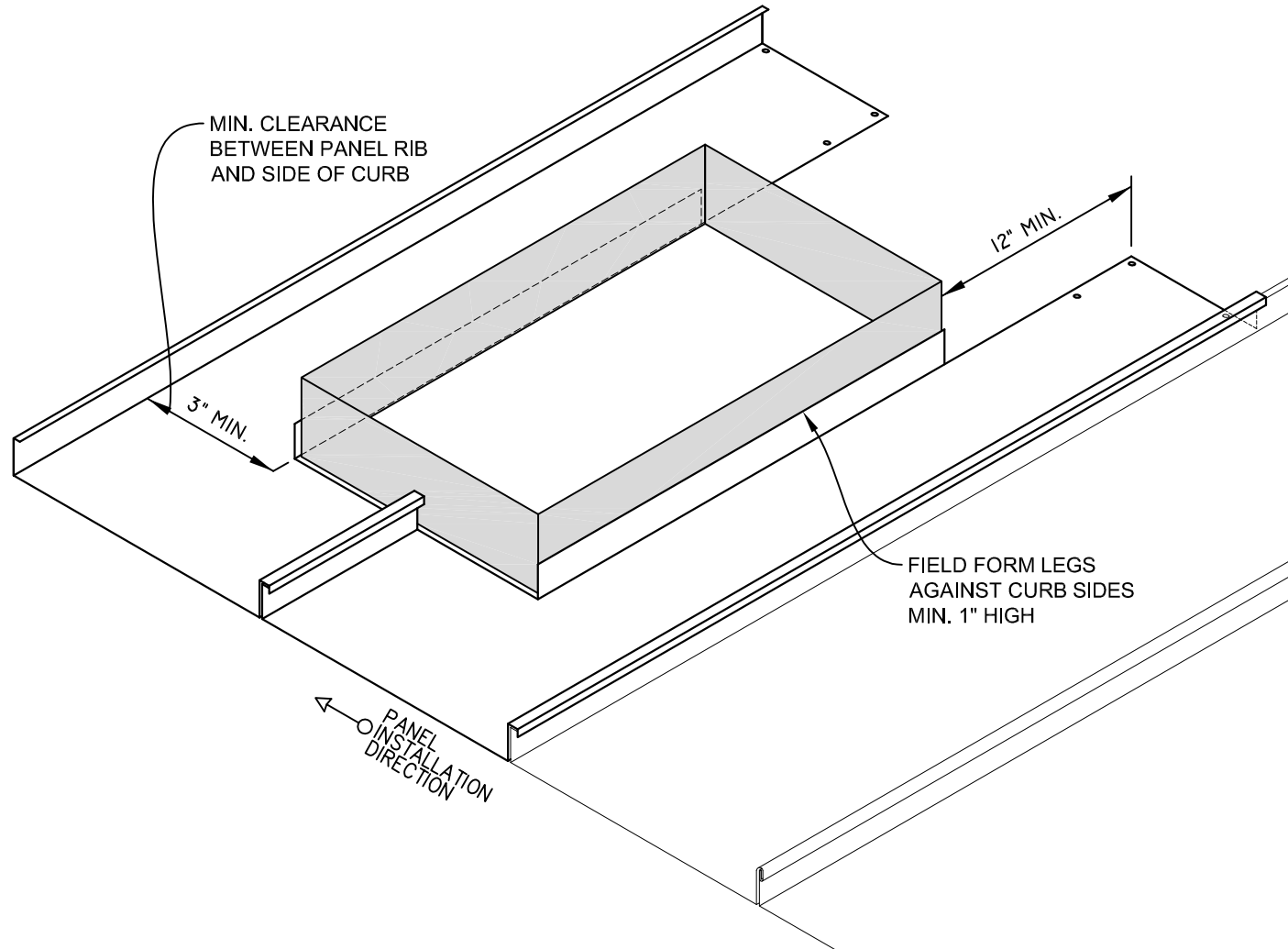
RIGID INSULATION OVER METAL DECK

Project Name:

Location:

STEP 1

INSTALL PANELS
AROUND CURB



Description:

ML150 CURB DETAILS - STEP 1

Detail No.:

ML150-CRB: 1 of 6

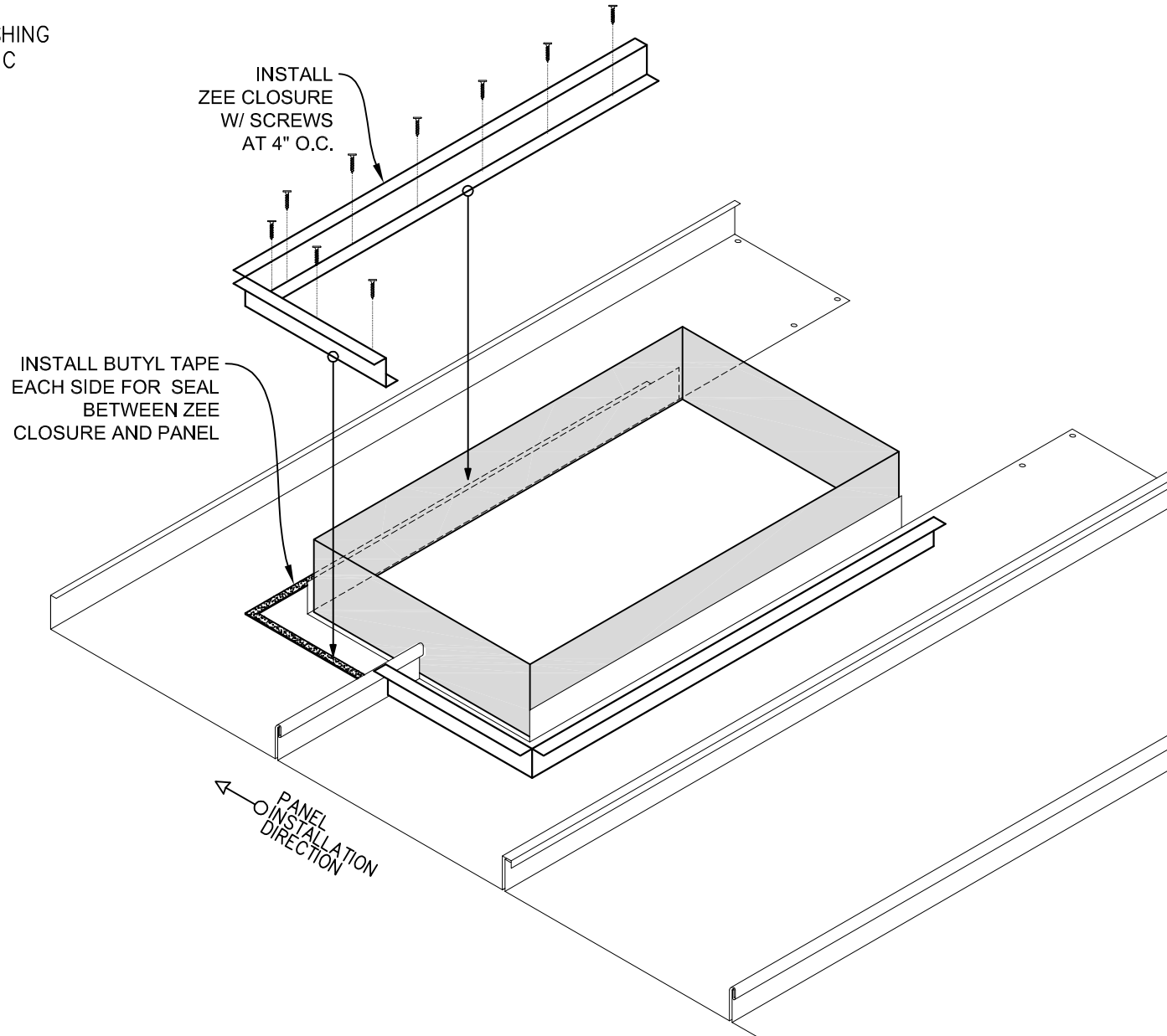
Substrate:

Project Name:

Location:

STEP 2

APPLY ZEE CLOSURE FLASHING
OVER DOUBLE BEAD MASTIC



Description:

ML150 CURB DETAILS - STEP 2

Detail No.:

ML150-CRB: 2 of 6

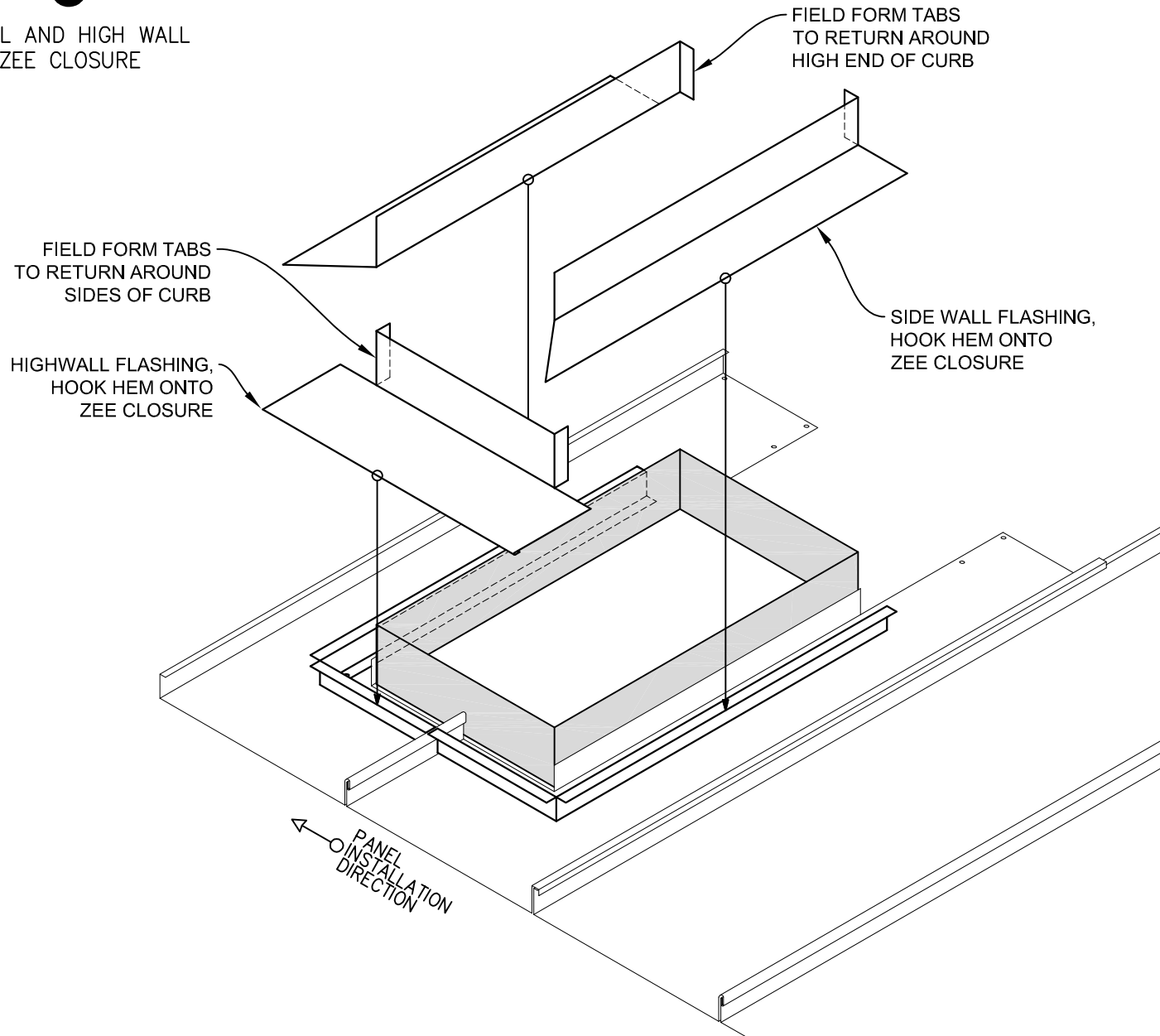
Substrate:

Project Name:

Location:

STEP 3

INSTALL SIDE WALL AND HIGH WALL
FLASHINGS ATOP ZEE CLOSURE



Description:

ML150 CURB DETAILS - STEP 3

Detail No.:

ML150-CRB: 3 of 6

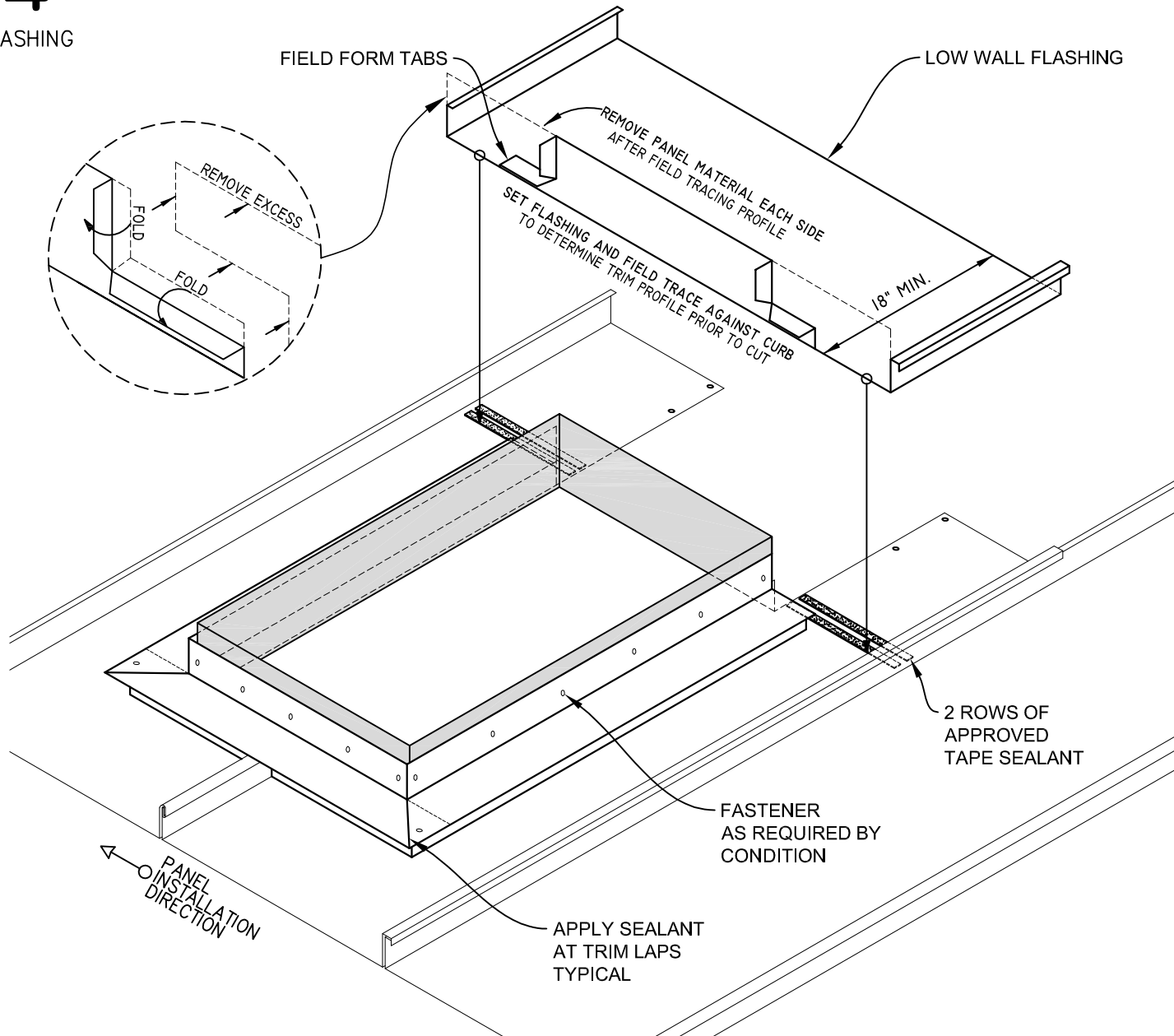
Substrate:

Project Name:

Location:

STEP 4

INSTALL LOW WALL FLASHING



Description:

ML150 CURB DETAILS - STEP 4

Detail No.:

ML150-CRB: 4 of 6

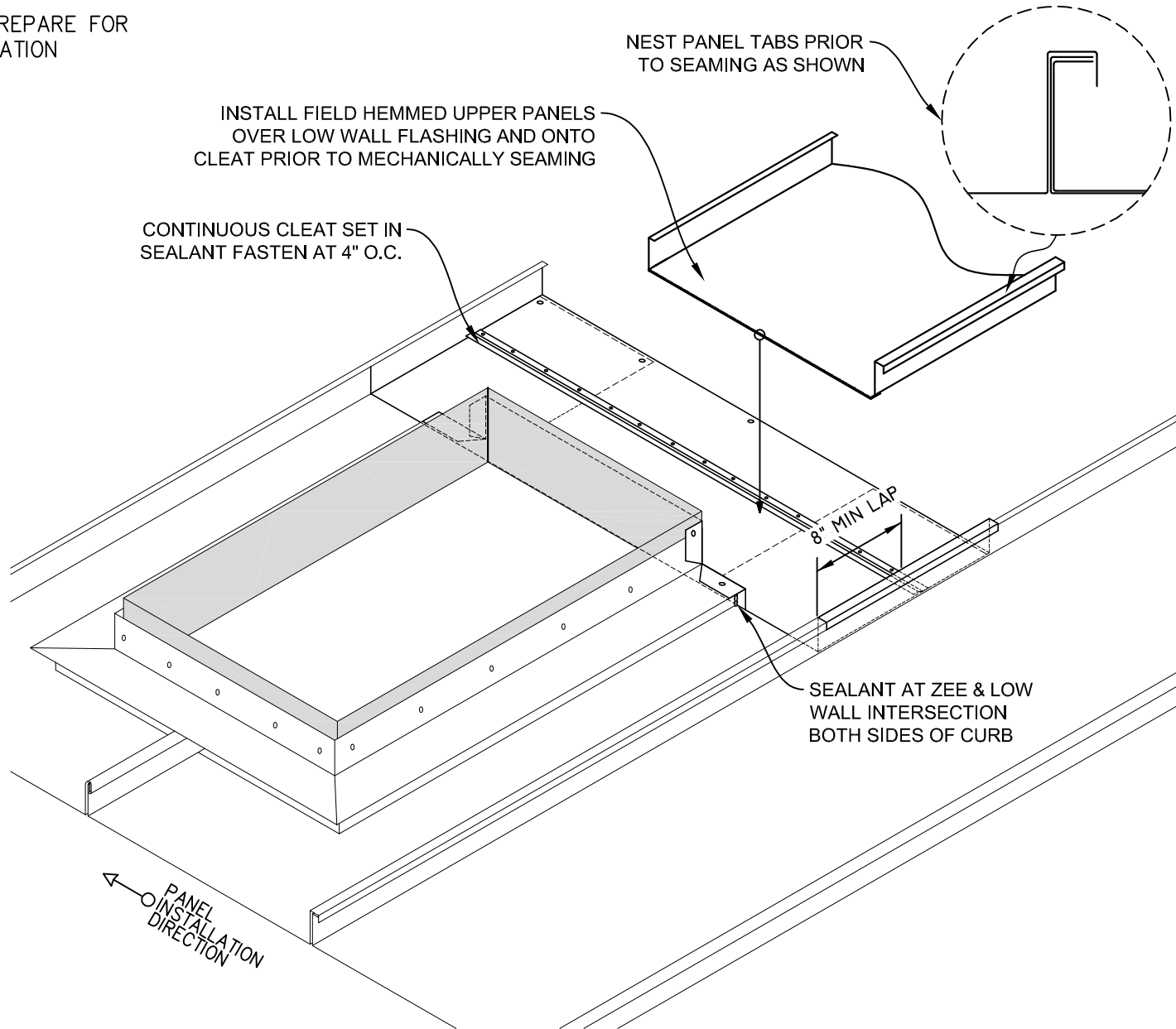
Substrate:

Project Name:

Location:

STEP 5

INSTALL CLEAT AND PREPARE FOR
UPPER PANEL INSTALLATION



Description:

ML150 CURB DETAILS - STEP 5

Detail No.:

ML150-CRB: 5 of 6

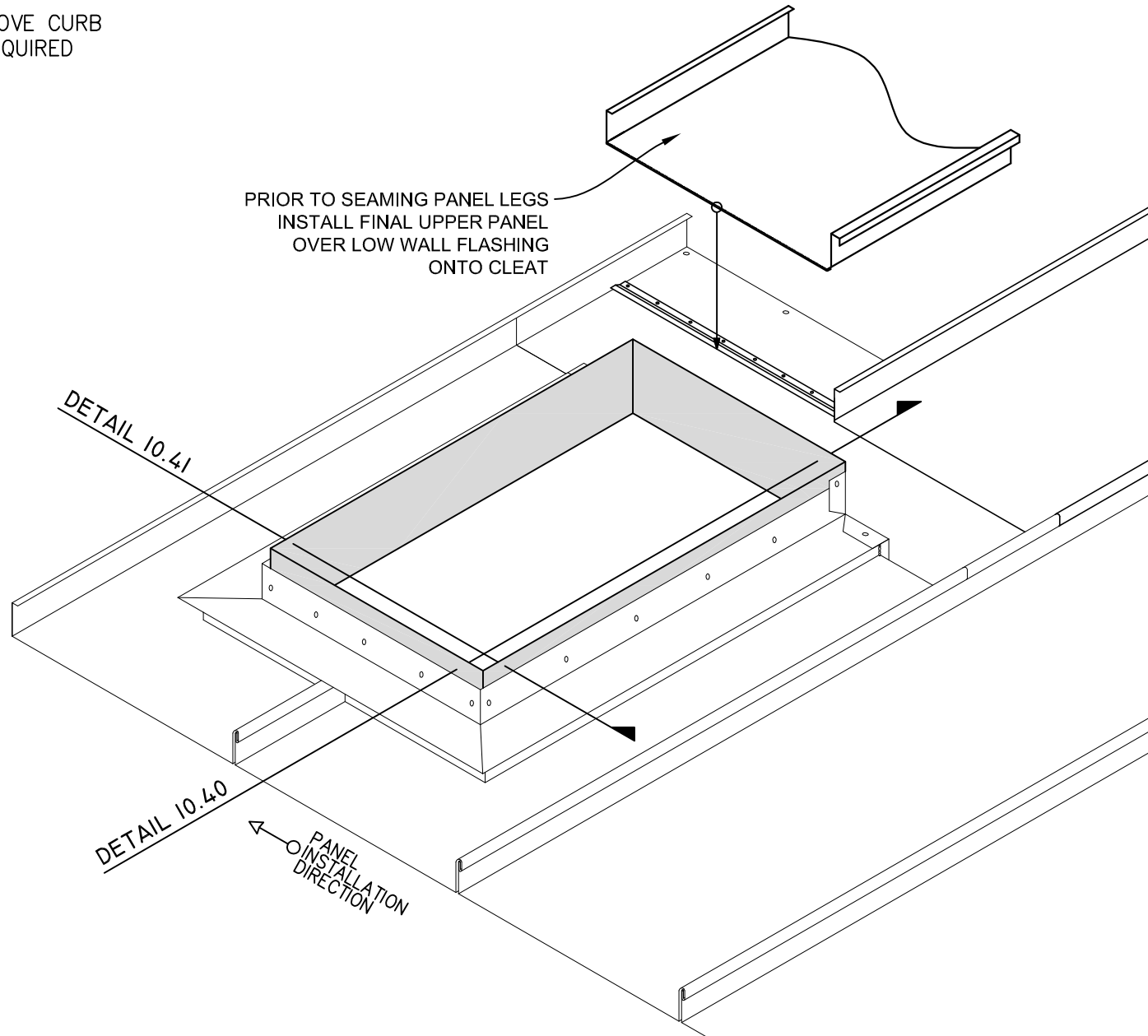
Substrate:

Project Name:

Location:

STEP 6

INSTALL FINAL PANEL ABOVE CURB
SEAL AND FASTEN AS REQUIRED



Description:

ML150 CURB DETAILS - STEP 6

Detail No.:

ML150-CRB: 6 of 6

Substrate:

Project Name:

Location: