

KINGSEAM ROOF PANEL

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KINGSEAM ROOF PANEL

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KINGSEAM ROOF PANEL

DISCLAIMERS:

THESE DETAILS ARE PROVIDED AS A GUIDELINE FOR PROPER PANEL AND ASSOCIATED COMPONENT INSTALLATION, AND ARE BASED ON INDUSTRY ACCEPTED PRACTICES.

LOCATION OF VAPOR BARRIERS AND ASSOCIATED SEALANTS IN THESE DETAILS ARE BASED ON TYPICAL DESIGN PRACTICES FOR MOST U.S. CLIMATIC ZONES. (THE PRIMARY VAPOR BARRIER IS PLACED ON THE "WARM" SIDE IN WINTER).

CONTACT KINGSPAN TECHNICAL SERVICES FOR SPECIFIC PROJECT FASTENING REQUIREMENTS

EXTRUSION SHAPES / ENGAGEMENT MAY VARY FROM THOSE SHOWN.

PROJECTS LOCATED IN AREAS SUBJECT TO EXTREME COLD AND/OR HIGH SNOW LOADS MAY REQUIRE MODIFICATIONS TO THESE DETAILS - CONTACT KINGSPAN TECHNICAL SERVICES FOR SPECIFIC PROJECT RECOMMENDATIONS.

ALL STRUCTURAL SUPPORTS ARE NOT BY KINGSPAN AND ARE SHOWN FOR CLARIFICATION PURPOSES ONLY.

PLEASE VISIT [HTTP://KINGSPANPANELS.US](http://kingspanpanels.us) or [HTTP://WWW.KINGSPANPANELS.CA](http://www.kingspanpanels.ca) TO ENSURE YOU ARE VIEWING THE MOST RECENT AND ACCURATE PRODUCT INFORMATION.

CARE HAS BEEN TAKEN TO ENSURE THAT THE CONTENTS OF THIS PUBLICATION ARE ACCURATE, BUT KINGSPAN AND ITS SUBSIDIARY COMPANIES DO NOT ACCEPT RESPONSIBILITY FOR ERRORS OR FOR INFORMATION THAT IS FOUND TO BE MISLEADING. SUGGESTIONS FOR, OR DESCRIPTION OF, THE END USE OR APPLICATION OF PRODUCTS OR METHODS OF WORKING ARE FOR INFORMATION ONLY AND KINGSPAN LIMITED AND ITS SUBSIDIARIES ACCEPT NO LIABILITY IN RESPECT THEREOF.

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COMMERCIAL/INDUSTRIAL
DISCLAIMER

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KINGSEAM ROOF PANEL

CORE DEPTHS:
3.25", 4", 5", 6"

MODULE WIDTH:
40"

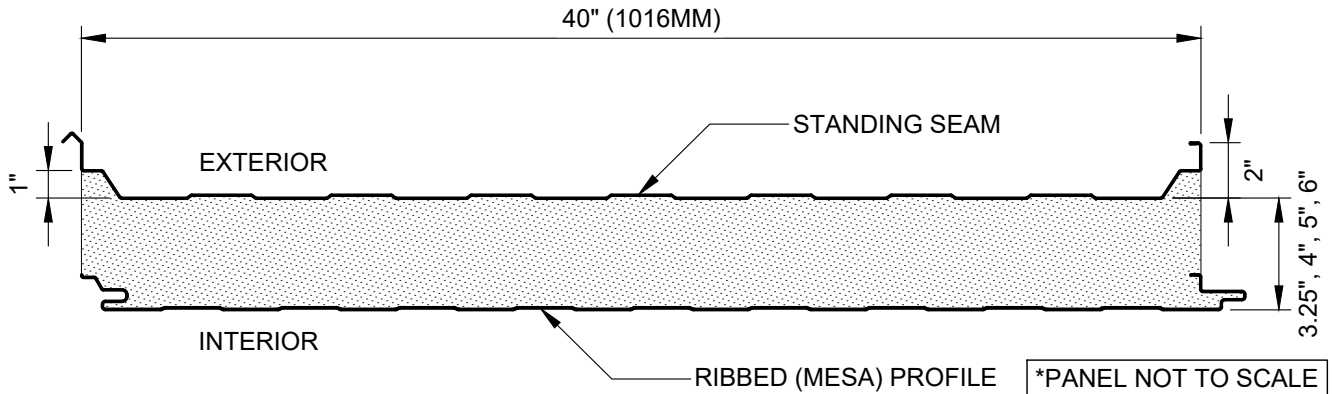
EMBOSSING:
EXTERIOR: NON-EMBOSSSED
INTERIOR: STUCCO / NON-EMBOSSSED

STEEL GAUGES:
EXTERIOR: 22, 24, 26
INTERIOR: 22, 24, 26

PANEL ORIENTATION:
ROOF

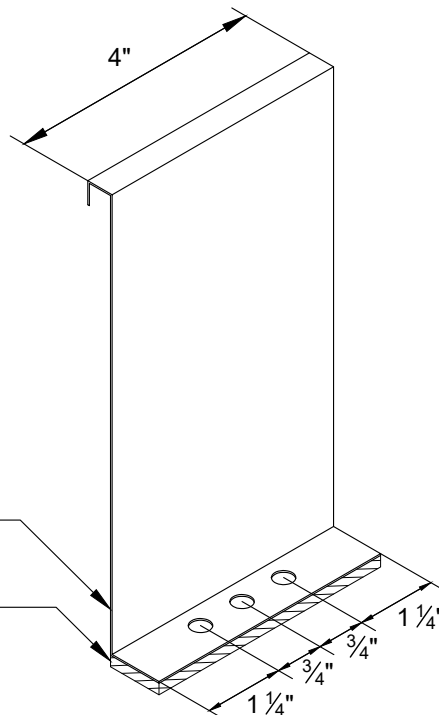
MINIMUM SLOPE:
 $\frac{1}{4}" : 12"$ (2° SLOPE)
 $\frac{1}{2}" : 12"$ (ROOF W/ ENDLAPS)

LENGTHS:
MINIMUM: 8'-0"
MAXIMUM: 50'-0"
(FOR ADDITIONAL LENGTHS
CONSULT TECHNICAL SERVICES)



24 GAUGE STAINLESS STEEL
KINGSEAM ROOF PANEL CLIP

FACTORY-APPLIED FOAM
GASKET AT UNDERSIDE OF
ROOF CLIP



KINGSEAM CLIP ISOMETRIC

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PANEL PROFILE

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KINGSEAM ROOF PANEL

NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP, USING $\frac{1}{2}$ " HAND CRIMPING TOOL.

FIELD APPLIED $\frac{1}{8}$ " BEAD OF BUTYL SEALANT ON UNDERSIDE OF PANEL CLIP

FIELD APPLIED $\frac{1}{4}$ " BEAD OF NON-SKINNING BUTYL SEALANT

KINGSEAM ROOF PANEL (SR) CLIP W/ $\frac{1}{4}$ " DIA DP3 FASTENERS W/O WASHER PER PANEL AT EACH SECONDARY SUPPORT

FACTORY APPLIED FOAM GASKET AT UNDERSIDE OF ROOF CLIP

CONTINUOUS BUTYL SEALANT IN FEMALE JOINT

() $\frac{1}{4}$ "x2" DP3 FASTENERS W/O WASHER PER CLIP
(CONTACT KINGSPAN TECHNICAL SERVICES FOR PROJECT SPECIFIC FASTENING REQUIREMENTS)

ROOF INSTALLATION DIRECTION

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PANEL JOINT

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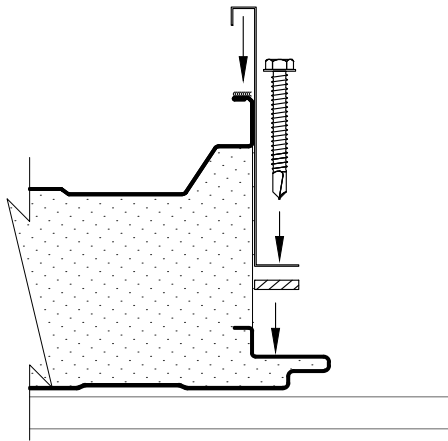
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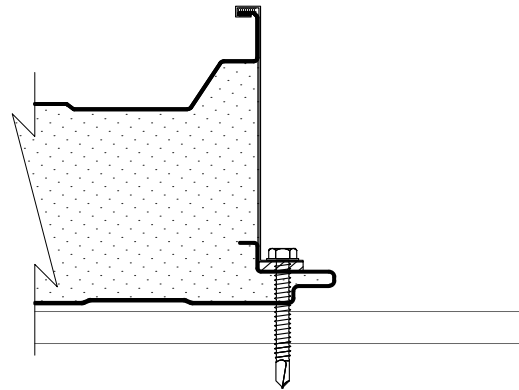
KINGSEAM ROOF PANEL

NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM.

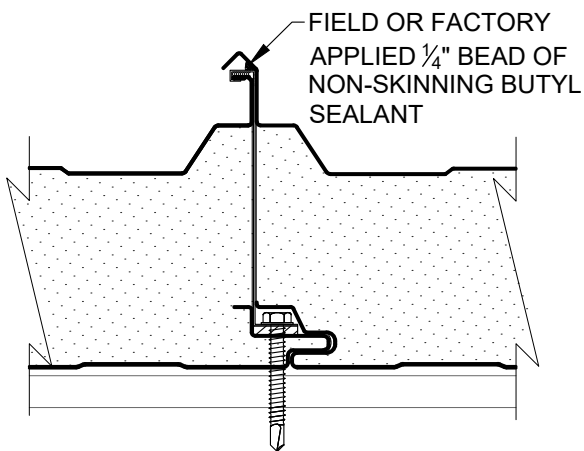
- ① SET PANEL IN PLACE, WITH CONTINUOUS BUTYL SEALANT ALONG STANDING RIB
- ② INSTALL KINGSEAM (SR) CLIP, AND HWH FASTENERS



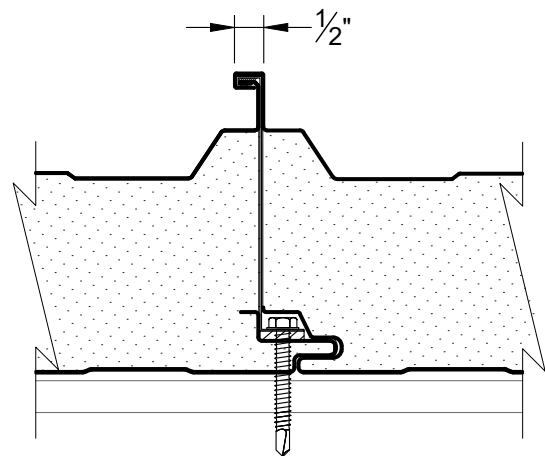
- ③ HAND "CRIMP" THE (SR) CLIP AT EACH CLIP LOCATION



- ④ INSTALL CONTINUOUS BUTYL SEALANT AT FEMALE JOINT OF NEXT PANEL
- ⑤ ENGAGE PANEL JOINTS



- ⑥ USE CLAMPS TO SECURE STANDING SEAM ASSEMBLY
- ⑦ HAND CRIMP STANDING SEAM ASSEMBLY AT CLIP LOCATIONS



CONTACT KINGSPAN TECHNICAL SERVICES FOR PROJECT SPECIFIC FASTENING REQUIREMENTS

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PANEL JOINT
SEQUENCE

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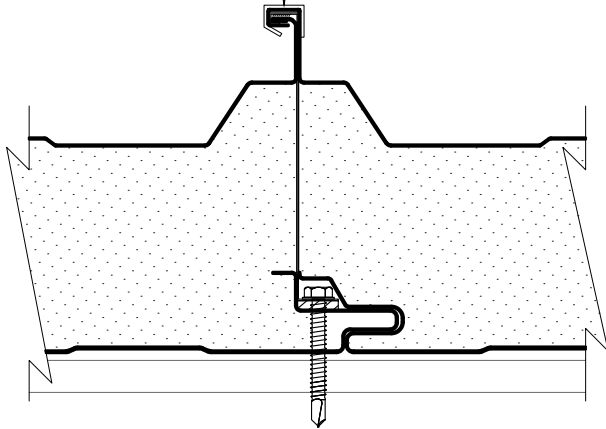
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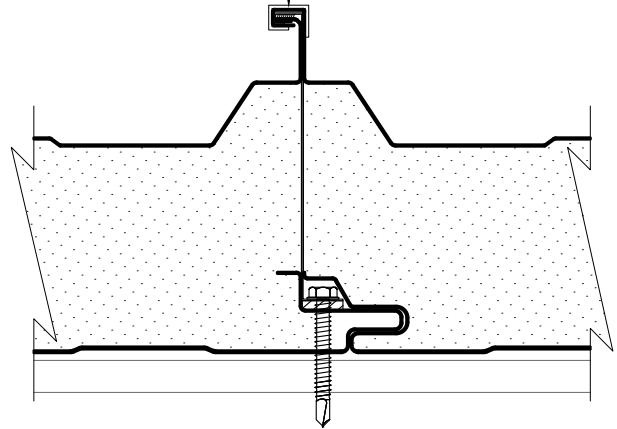


KINGSEAM ROOF PANEL

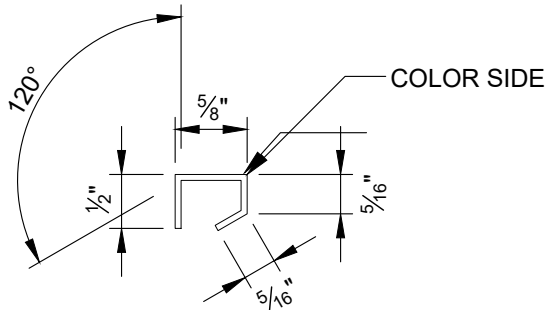
EC-01 ENHANCEMENT
CLIP



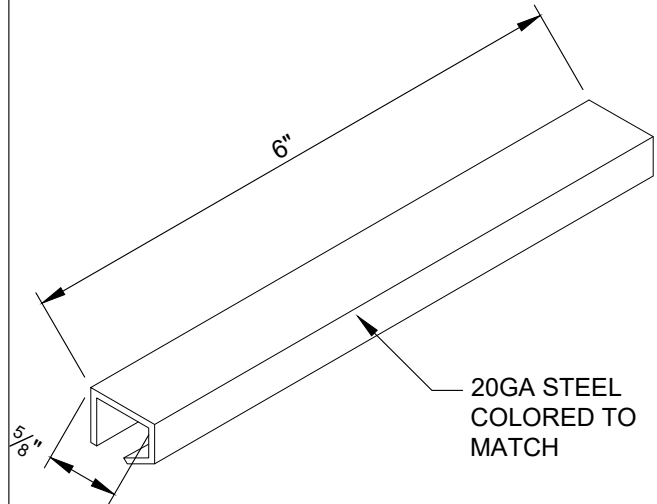
EC-01 ENHANCEMENT
CLIP (HAND CRIMP)



NOTE:
UNDIMENSIONED
ANGLES ARE 90°



EC-01 ENHANCEMENT CLIP SECTION VIEW
(NOT TO SCALE)
20GA STEEL COLORED TO MATCH



EC-01 ENHANCEMENT CLIP ISOMETRIC VIEW
(NOT TO SCALE)

CONSULT KINGSPAN ENGINEERING FOR USAGE OF THE EC-01 ENHANCEMENT CLIP

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ENHANCEMENT CLIP
INSTALLATION

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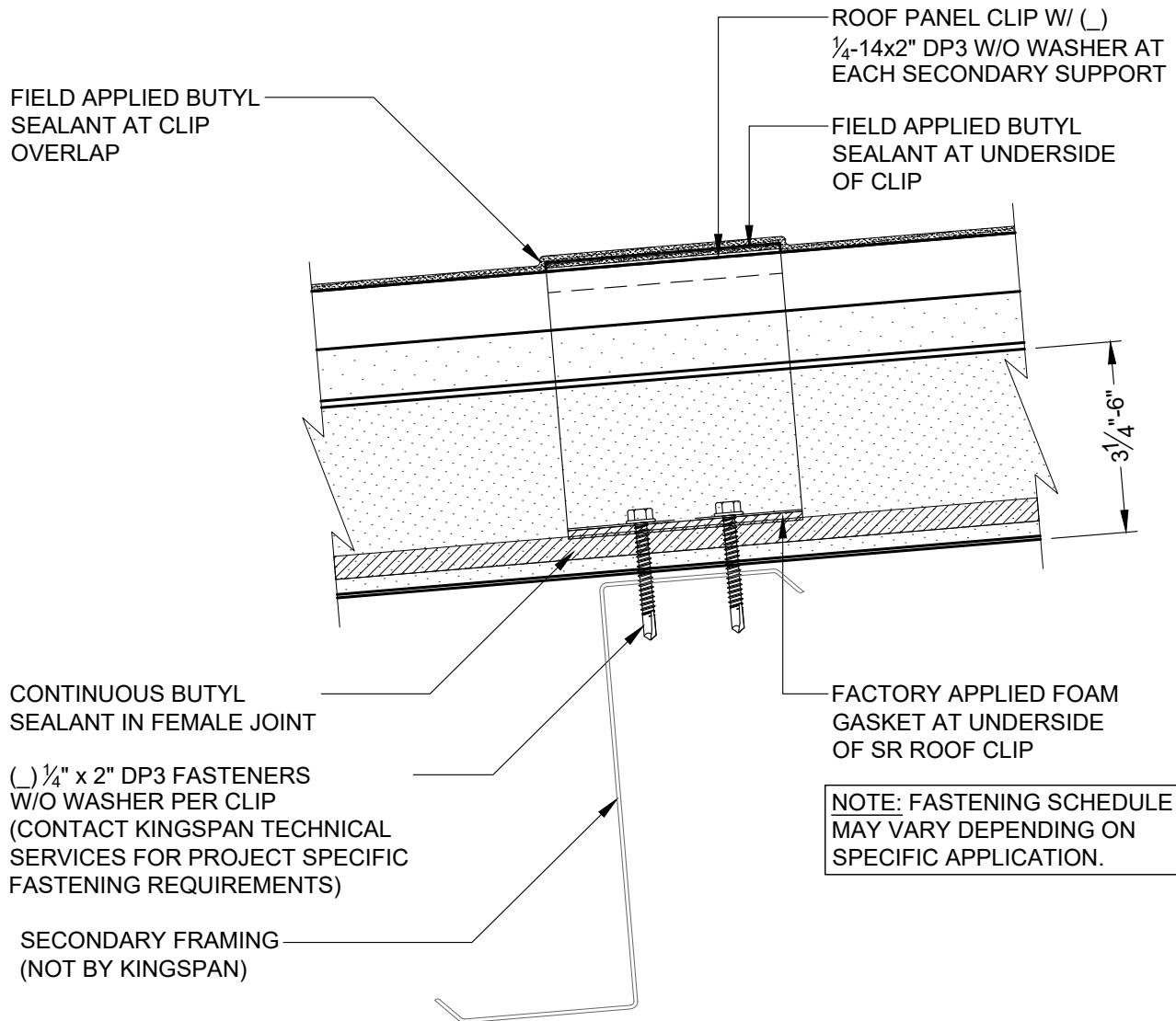
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NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP, USING $\frac{1}{2}$ " HAND CRIMPING TOOL.



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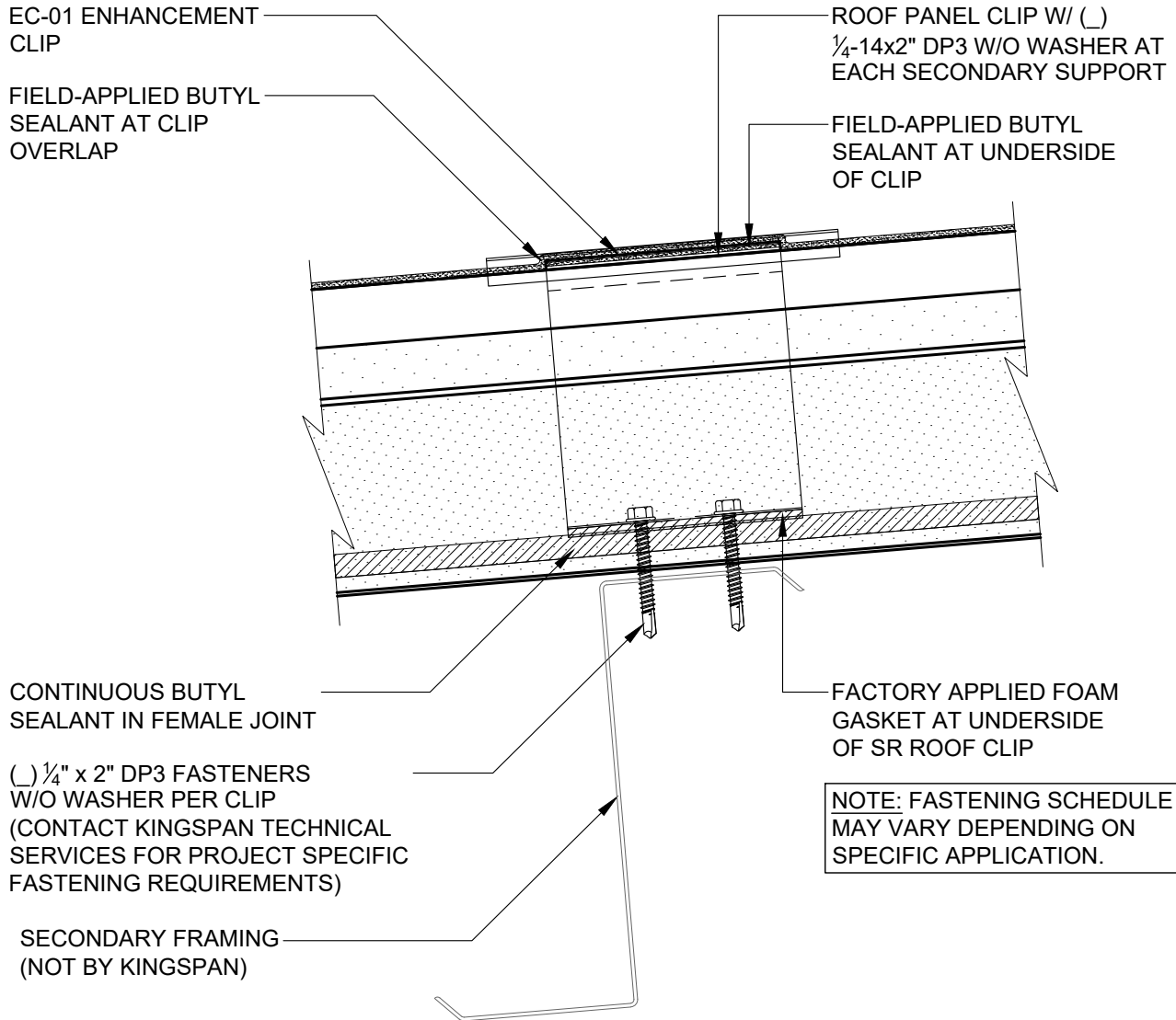
PANEL JOINT
AT INTERMEDIATE SUPPORT

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CONSULT KINGSPAN ENGINEERING FOR USAGE OF THE EC-01 ENHANCEMENT CLIP

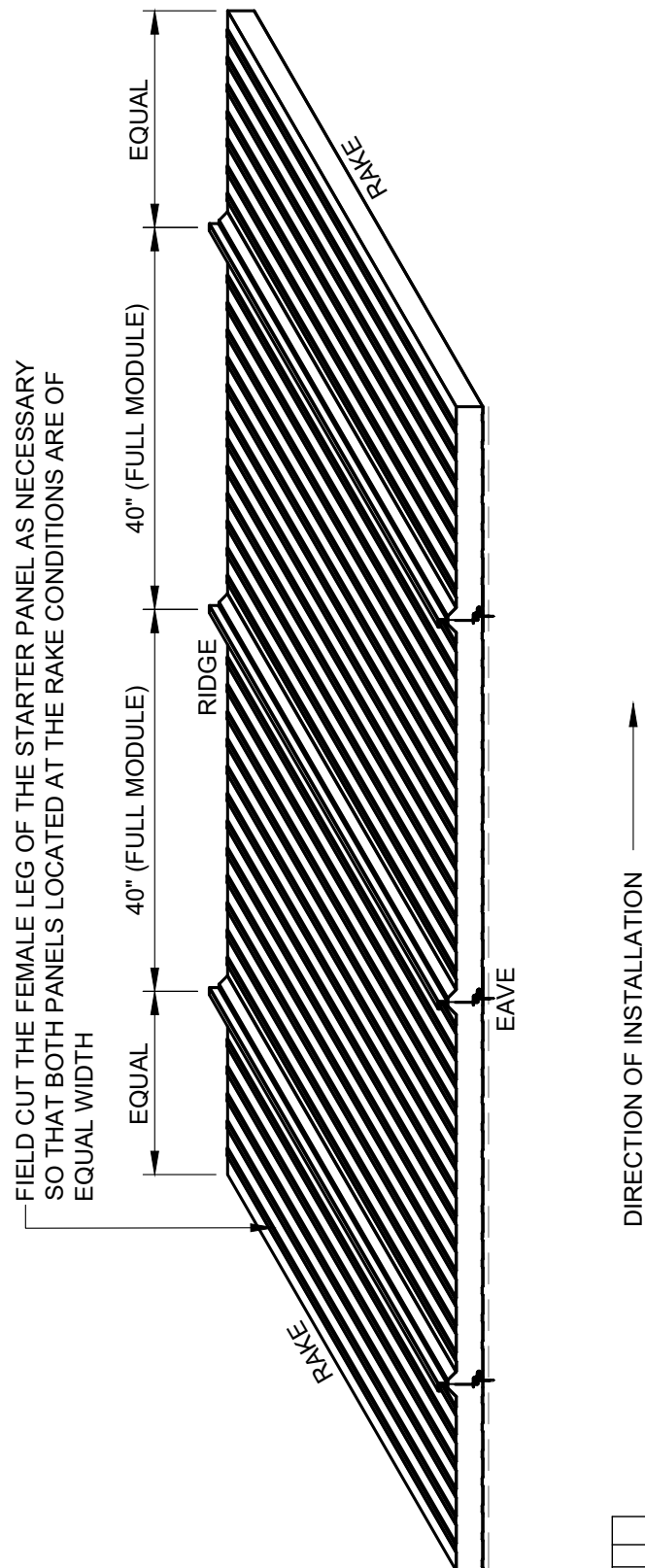
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PANEL JOINT
AT INTERMEDIATE SUPPORT
W/ ENHANCEMENT CLIP

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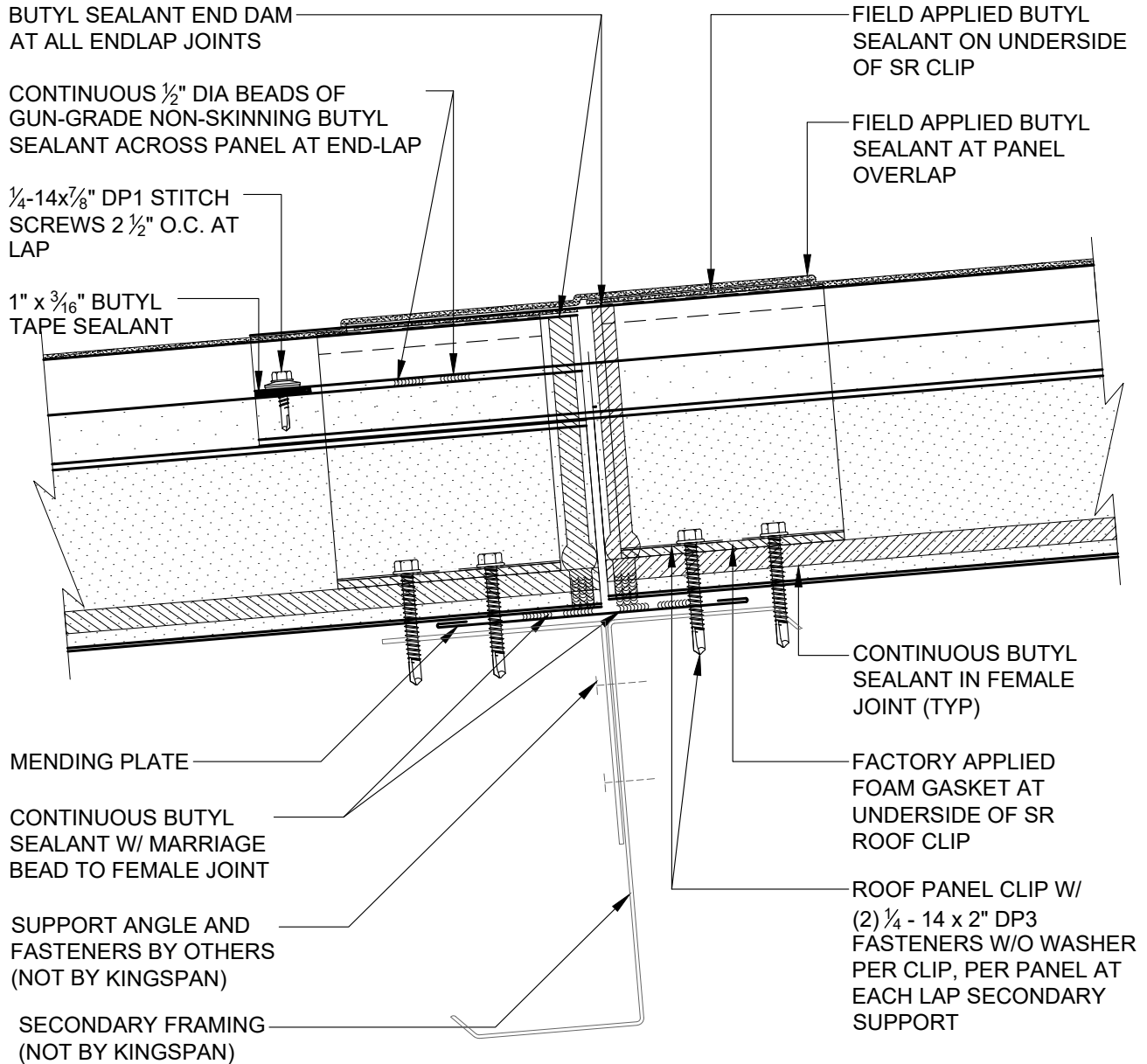
PANEL JOINT LAYOUT

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CONTACT KINGSPAN TECHNICAL SERVICES FOR PROJECT SPECIFIC FASTENING REQUIREMENTS

NOTE: BUTYL SEALANT AND BUTYL TAPE TO RUN ACROSS FULL WIDTH OF PANELS; NOT SHOWN AT HIGH RIBS FOR CLARITY.

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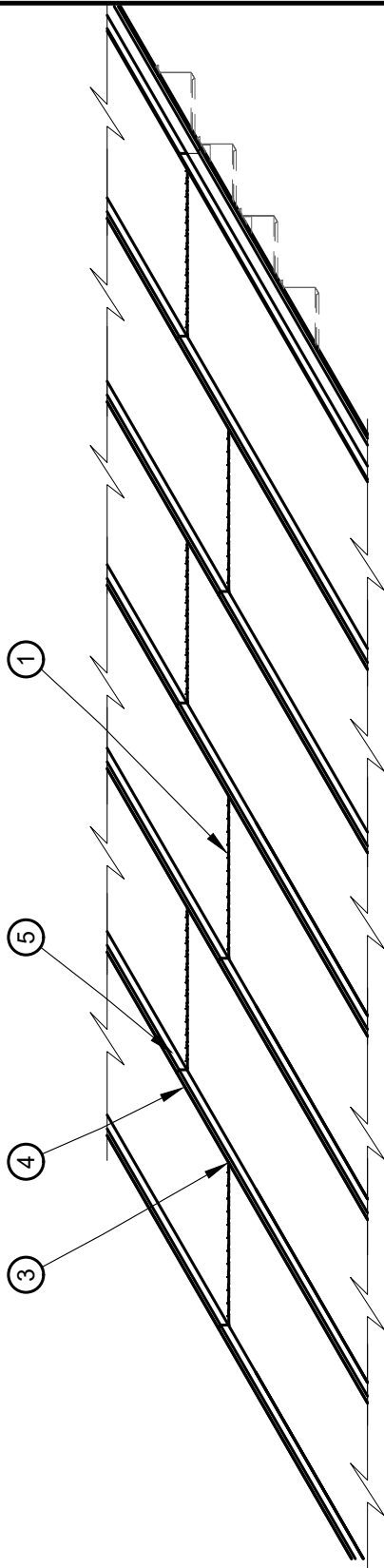
ENDLAP

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KINGSEAM ROOF PANEL

- ① FASTENERS AT EVERY 2 ½" O.C. AT LAP
- ② ENDLAPS MUST BE STAGGERED
- ③ SEE MALE LEG ENDLAP DETAIL
- ④ SEE CONTINUOUS MALE LEG DETAIL
- ⑤ SEE FEMALE LEG ENDLAP DETAIL



STAGGERED ENDLAP ASSEMBLY
(ISOMETRIC VIEW - TYPICAL)

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STAGGERED ENDLAP
ASSEMBLY

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KINGSEAM ROOF PANEL

NOTE: CONTRACTOR SHALL REMOVE FOAM FROM ENDLAP CUTBACK IN THE FIELD. EXTRA CARE SHOULD BE TAKEN TO REMOVE FOAM CLEANLY FROM METAL THAT WILL BE DIRECTLY OVER BUTYL TAPE SEALANT.

UPPER COURSE KINGSEAM
STANDING SEAM PANELS

ENDLAP PREPARATION
(ISOMETRIC VIEW)

6" ENDLAP
CUTBACK
(SEE NOTE)

(ALTERNATE ISOMETRIC VIEW)

(ALTERNATE SECTION VIEW)

5 3/4"

USE METAL SNIPS TO CUT OFF THE EXPOSED METAL EDGE AT THE SIDE JOINT FACE AT EACH SIDE OF ROOF PANEL FOR PROPER NESTING OF UPPER COURSE OF OVERLAPPING KINGSEAM ROOF PANEL

LOWER COURSE KINGSEAM
STANDING SEAM PANELS

FIELD-APPLIED
1/4" BEAD OF
NON-SKINNING
BUTYL SEALANT

BUTYL SEALANT
END DAM AT ALL
ENDLAP JOINTS

3" EAVE
CUTBACK
(SEE NOTE)

NOTE: CONTRACTOR SHALL REMOVE FOAM FROM 3" CUTBACK BENEATH EXTERIOR FACER. EXTRA CARE SHOULD BE TAKEN TO REMOVE FOAM CLEANLY FROM METAL THAT WILL BE DIRECTLY OVER BUTYL TAPE OR SEALANT.

EAVE PREPARATION
(ISOMETRIC VIEW)

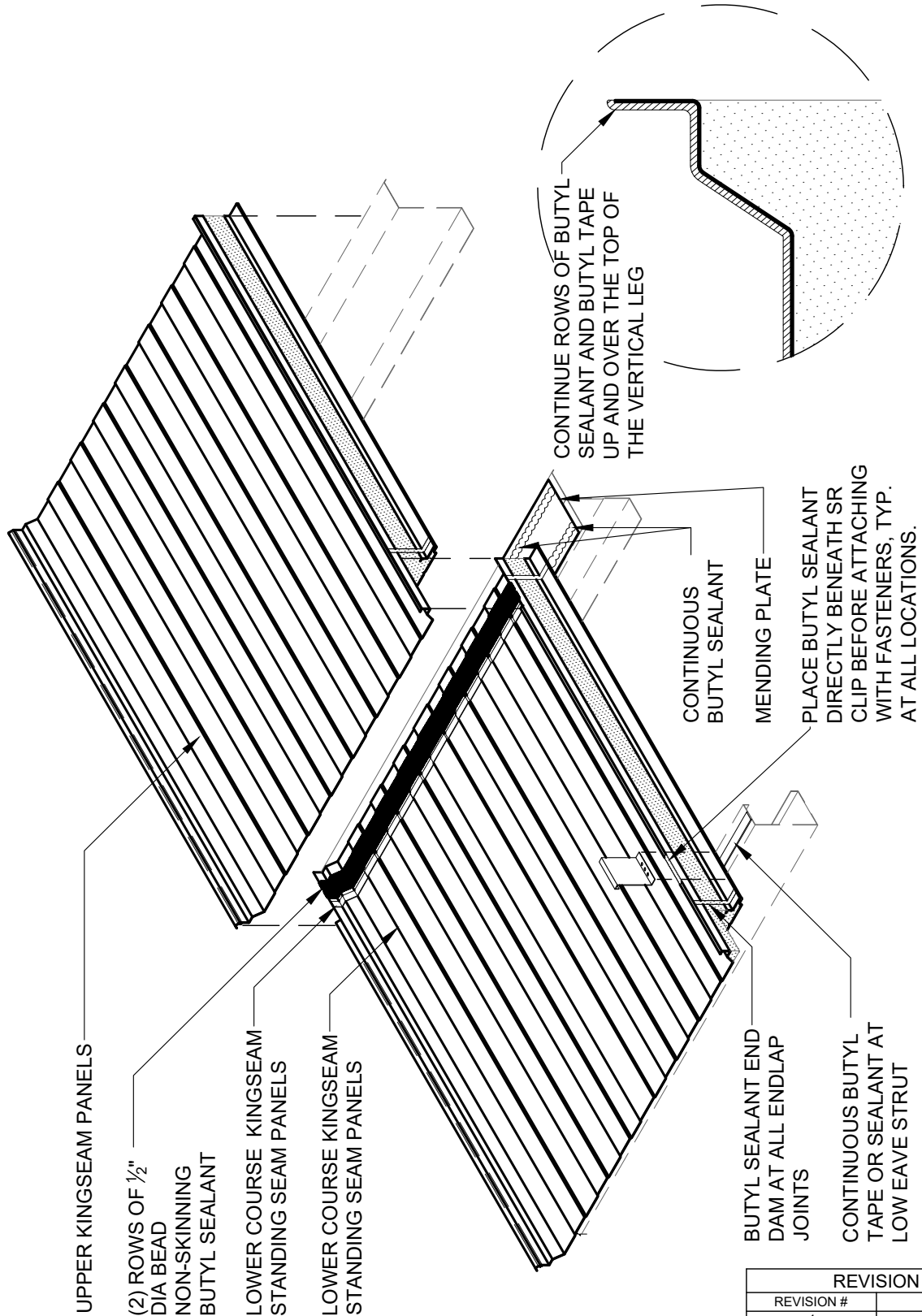
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MALE LEG
ENDLAP

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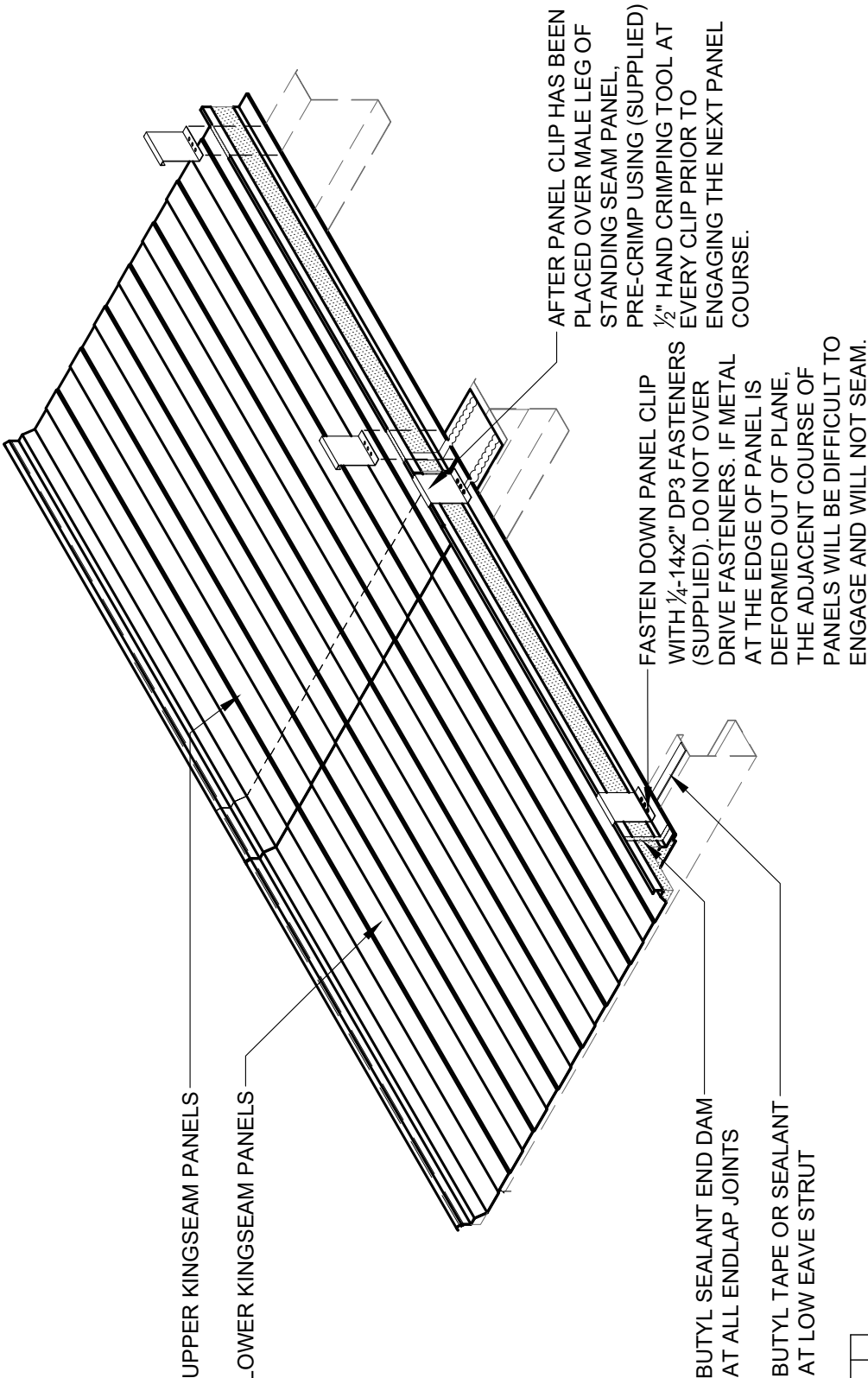
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CONTINUOUS MALE LEG
AT STAGGERED ENDLAP

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KINGSEAM ROOF PANEL



SR PANEL CLIP PREPARATION
(ISOMETRIC VIEW)

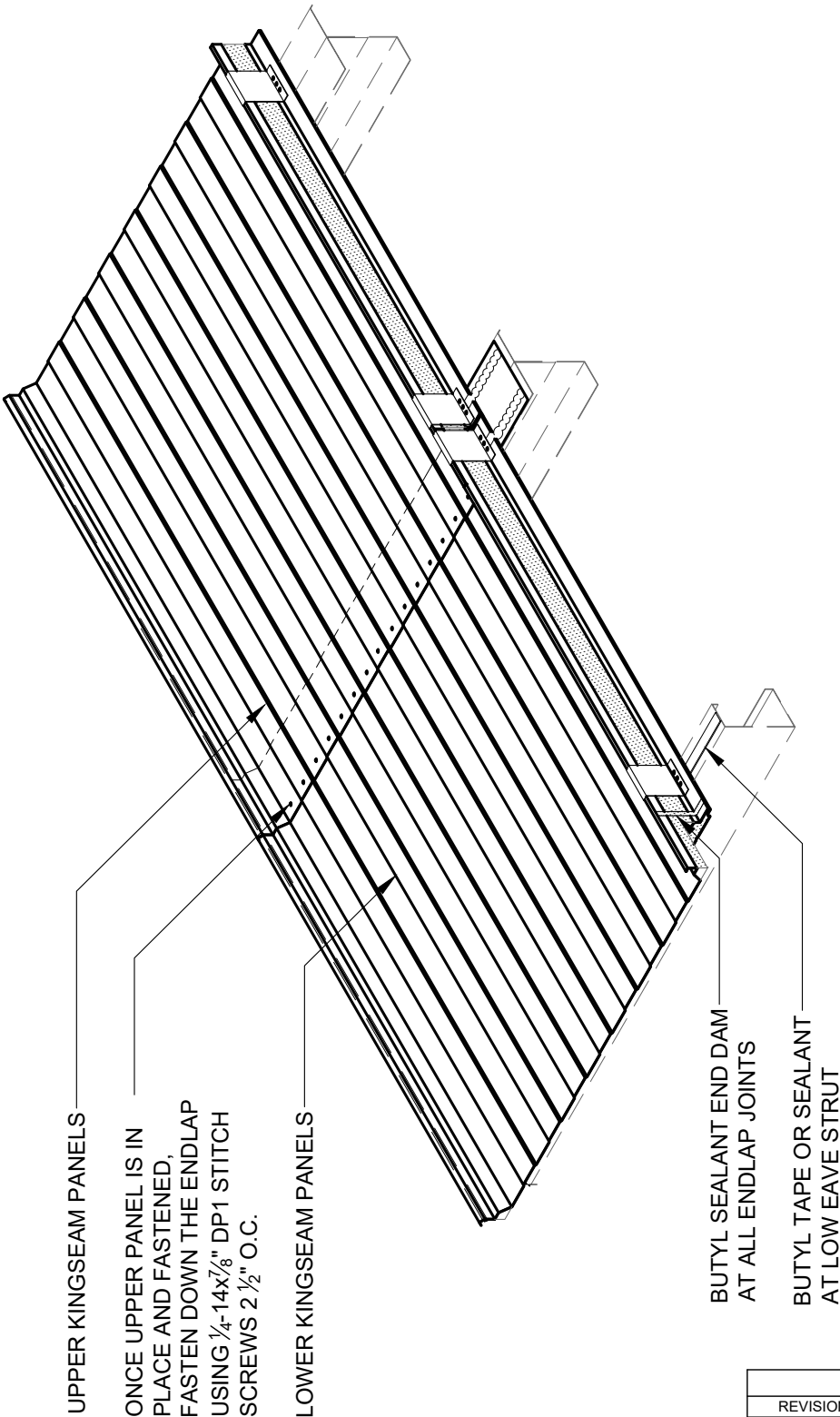
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FEMALE LEG
ENDLAP

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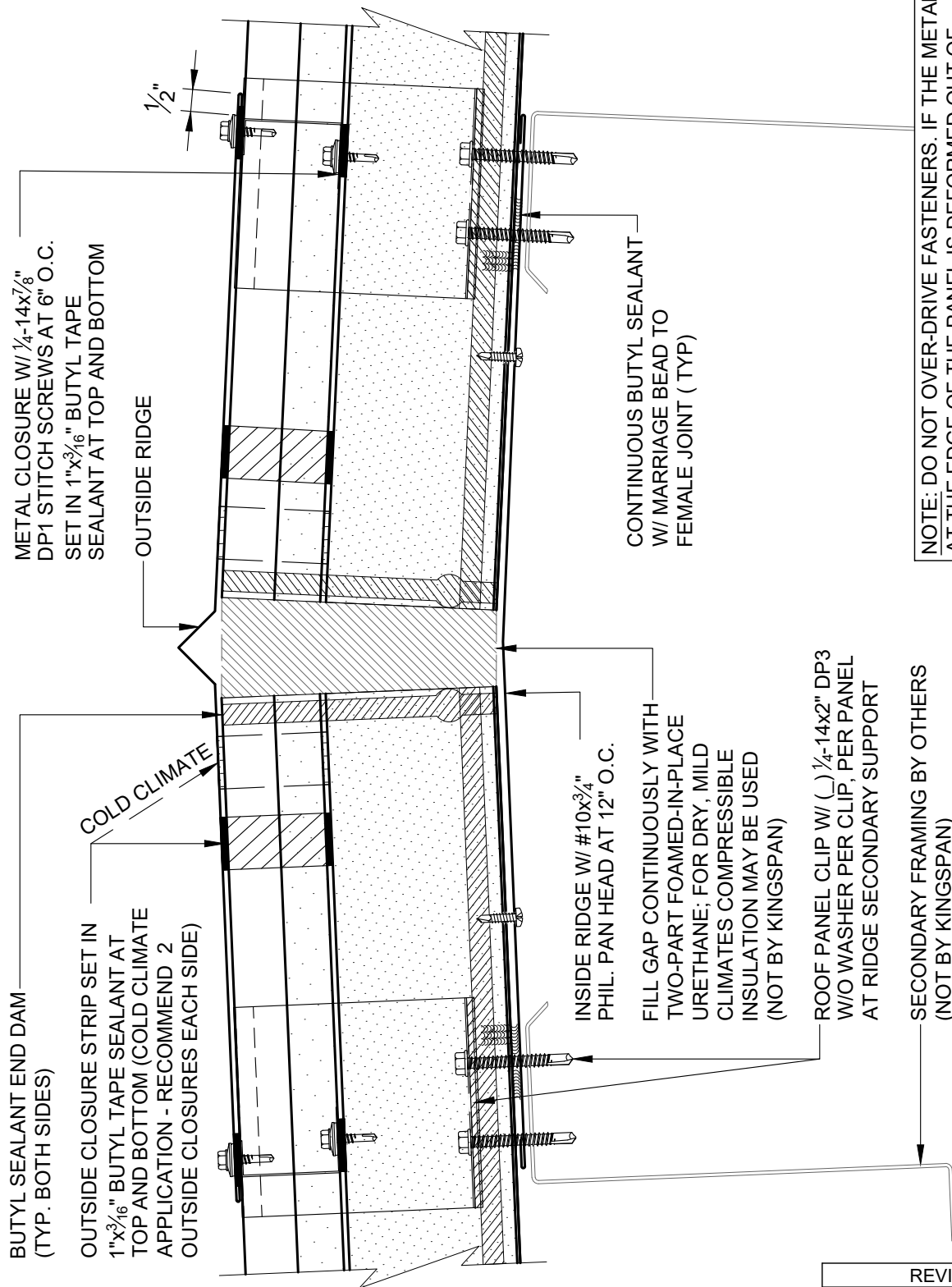
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ENDLAP CONDITIONS

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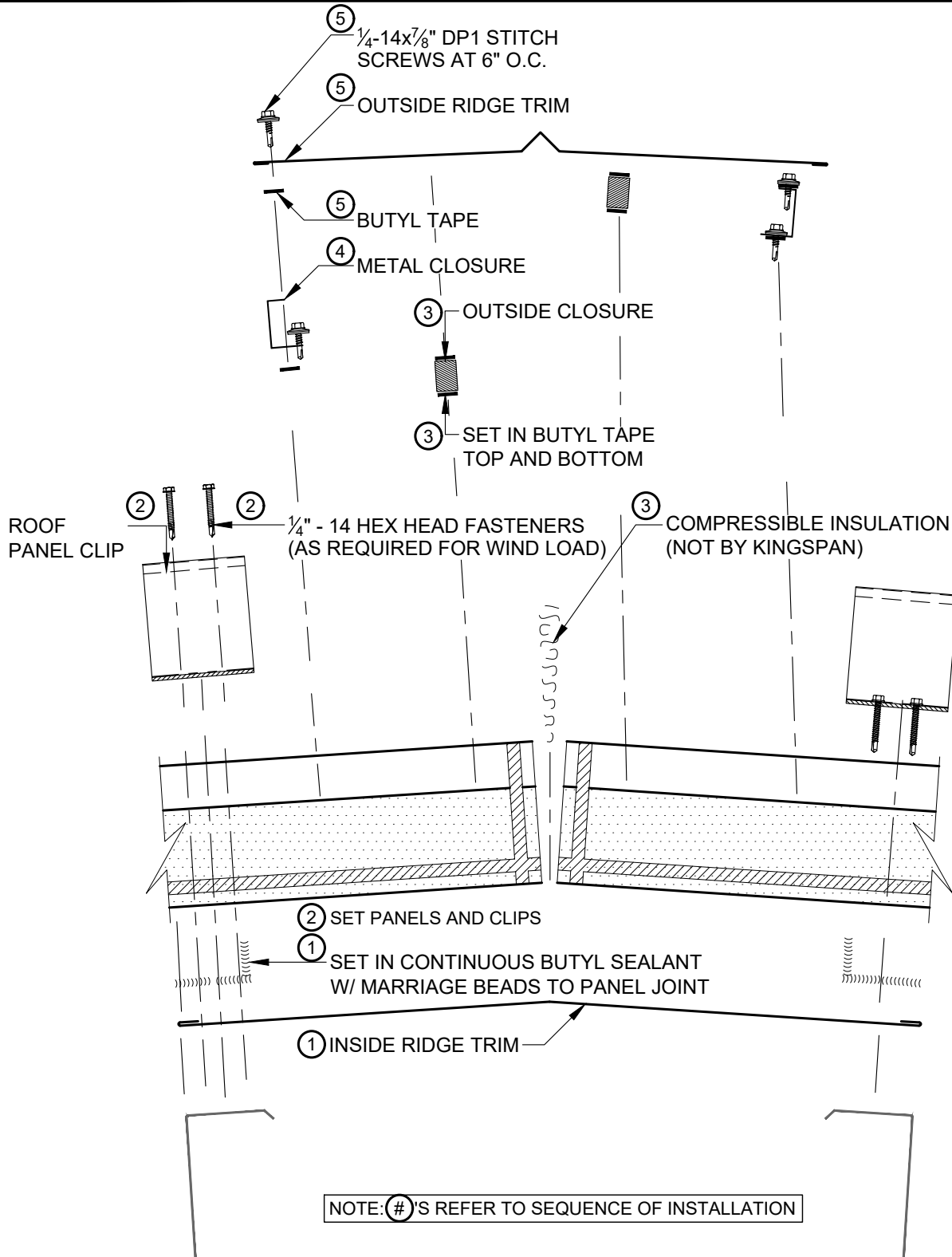
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RIDGE

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RIDGE ASSEMBLY

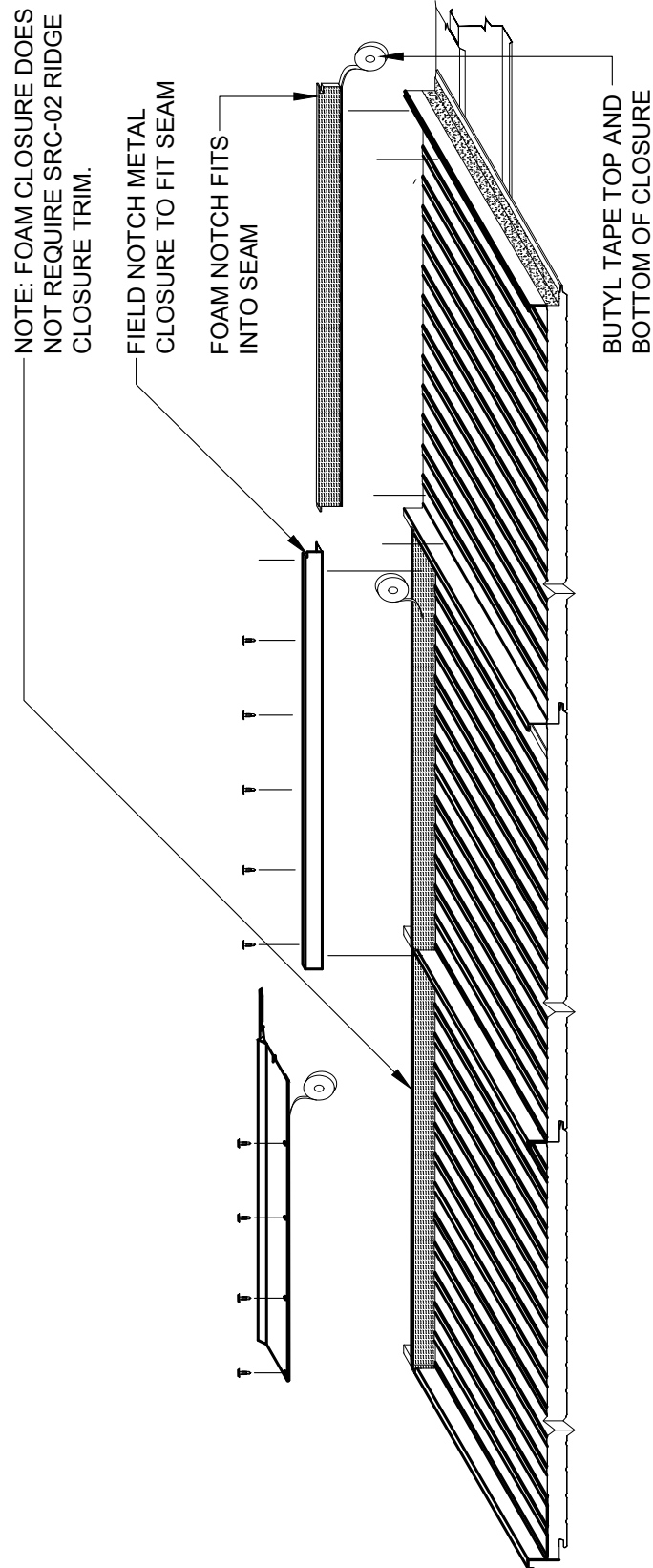
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KINGSEAM ROOF PANEL

NOTES:

1. PANELS NEED TO BE COMPLETELY INSTALLED AND FULLY SEALED BEFORE BEGINNING RIDGE INSTALLATION
2. PANEL GUIDE LINE MARKS SHOULD BE USED TO POSITION COMPONENTS CORRECTLY
3. APPLY CONTINUOUS BUTYL TAPE ACROSS ENTIRE PANEL INCLUDING VERTICAL LEGS. SET SR2 FOAM CLOSURE INTO PLACE, THEN APPLY CONTINUOUS BUTYL TAPE OVER TOP OF FOAM CLOSURE
4. FASTEN SRC-02 METAL RIDGE CLOSURE TRIM AT 6" O.C. (FASTENER SPACING MAY VARY WITH WIND LOAD)
5. AT THE RAKES, FIELD CUT THE END OF THE FOAM CLOSURE AND RIDGE CLOSURE TRIM TO FIT WITH THE RAKE FASCIA
6. SEE RIDGE DETAILS CI-RD-01-KINGSEAM AND CI-RD-02-KINGSEAM FOR ADDITIONAL INFORMATION



REVIEW RIDGE AND CONFIRM
NEEDS NEW PROFILES

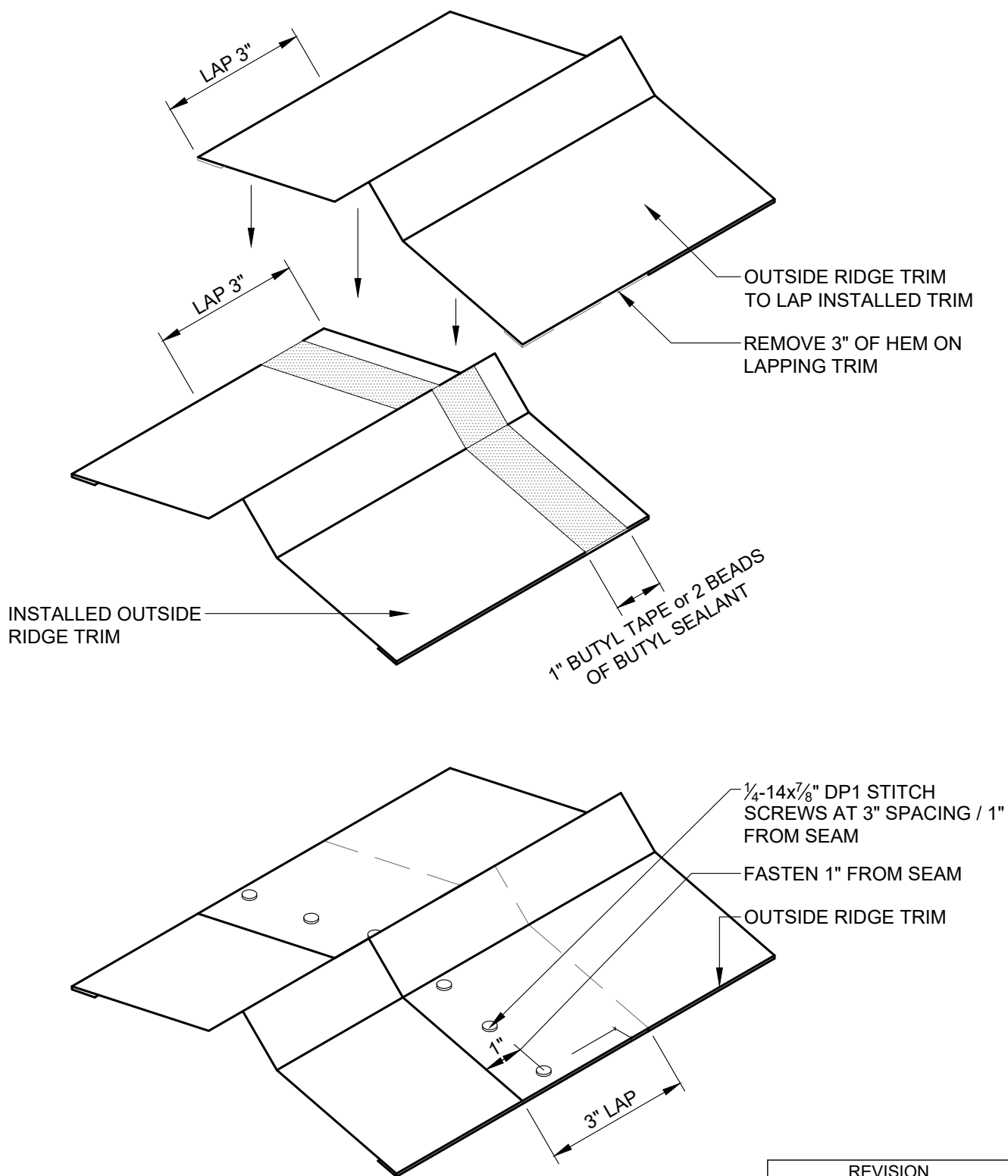
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RIDGE CLOSURE
ASSEMBLY

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RIDGE TRIM LAP

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NOTE: FIELD REMOVE FOAM AND LINER AT CUTBACK.

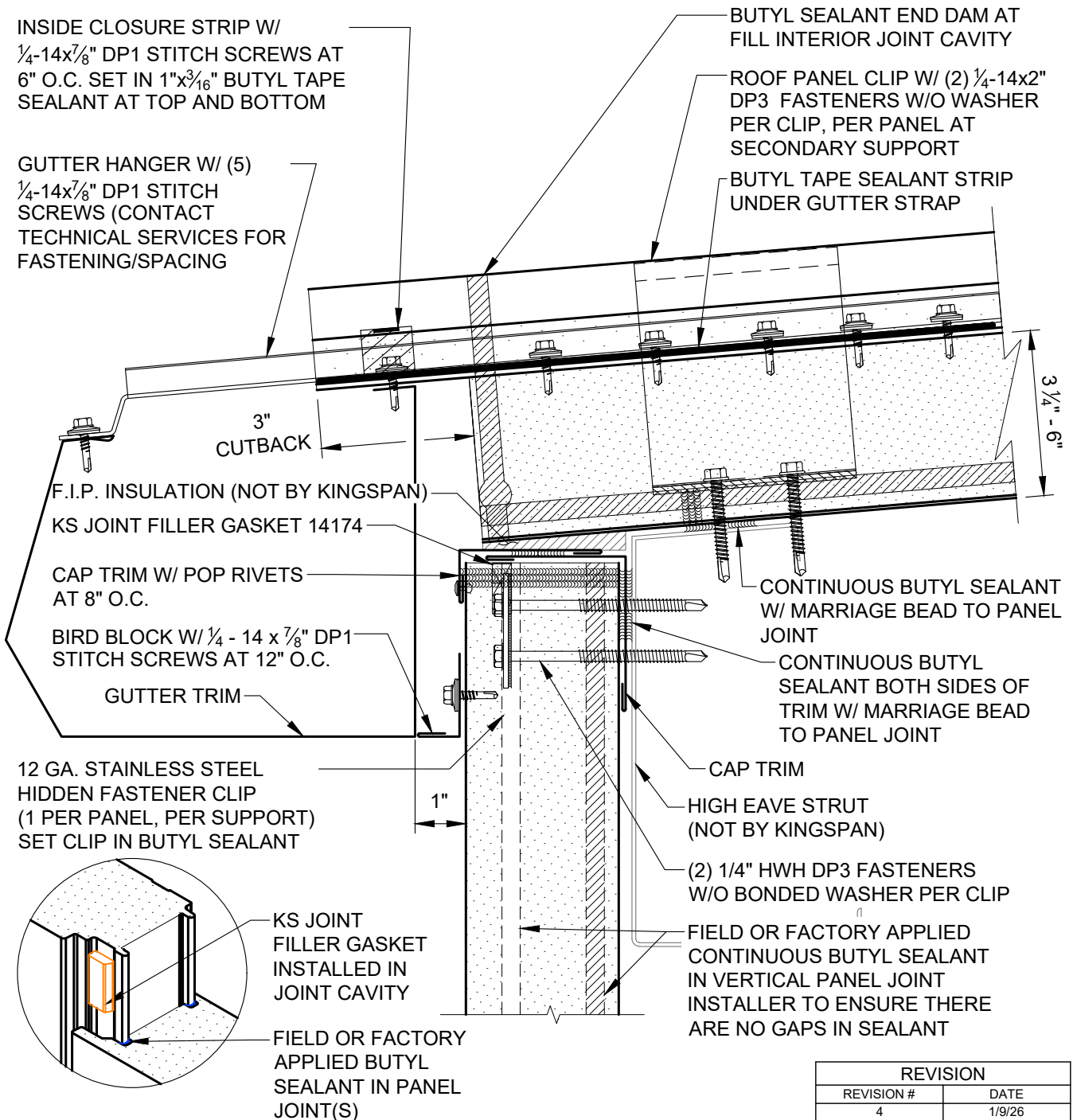
INSIDE CLOSURE STRIP W/
 $\frac{1}{4}$ -14x $\frac{7}{8}$ " DP1 STITCH SCREWS AT
6" O.C. SET IN 1"x $\frac{3}{16}$ " BUTYL TAPE
SEALANT AT TOP AND BOTTOM

GUTTER HANGER W/ (5)
 $\frac{1}{4}$ -14x $\frac{7}{8}$ " DP1 STITCH
SCREWS (CONTACT
TECHNICAL SERVICES FOR
FASTENING/SPACING

BUTYL SEALANT END DAM AT
FILL INTERIOR JOINT CAVITY

ROOF PANEL CLIP W/ (2) $\frac{1}{4}$ -14x2"
DP3 FASTENERS W/O WASHER
PER CLIP, PER PANEL AT
SECONDARY SUPPORT

BUTYL TAPE SEALANT STRIP
UNDER GUTTER STRAP



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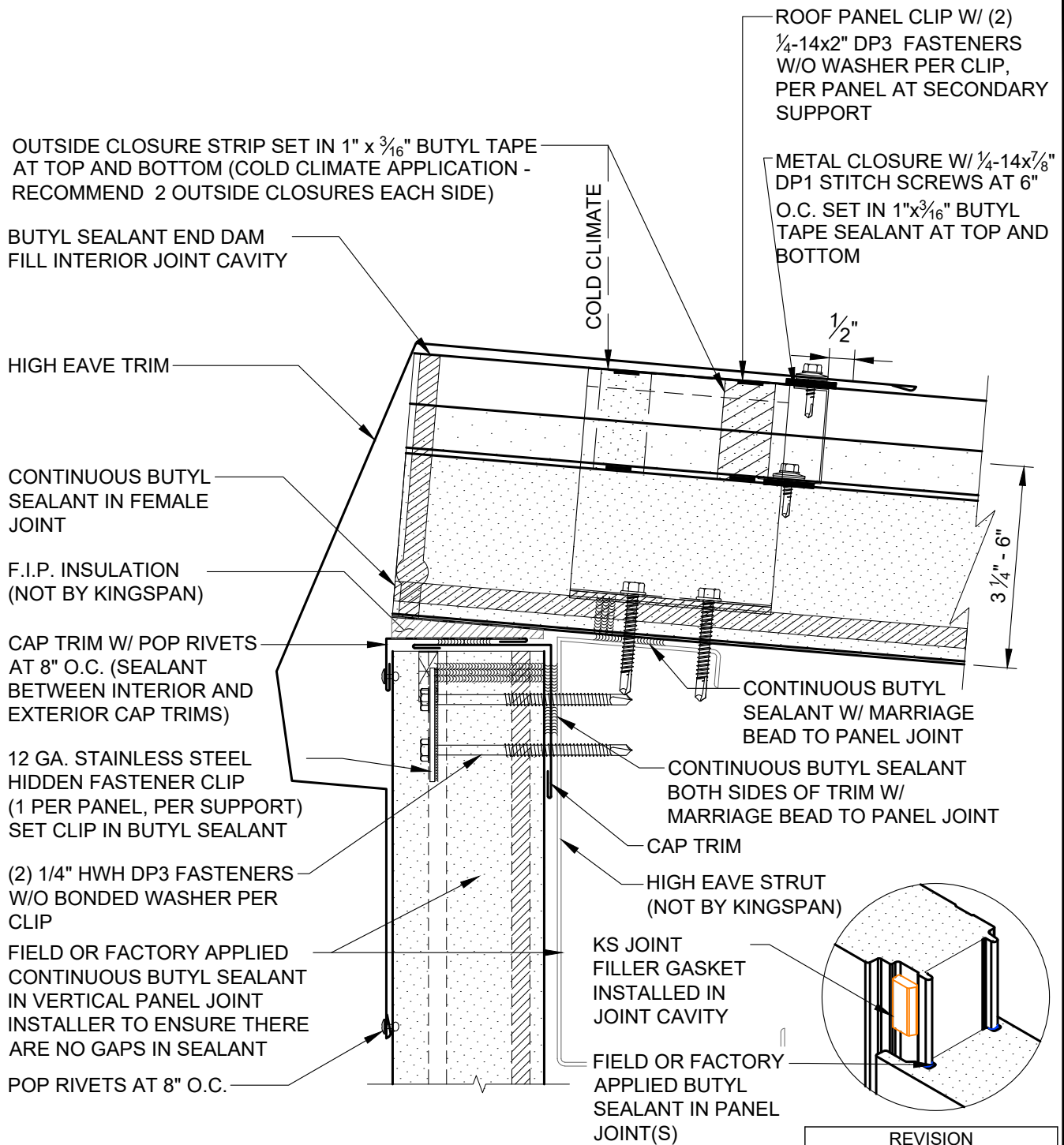
LOW EAVE -
KINGSEAM
NORTHERN GUTTER

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HIGH EAVE -
KINGSEAM
NORTHERN GUTTER

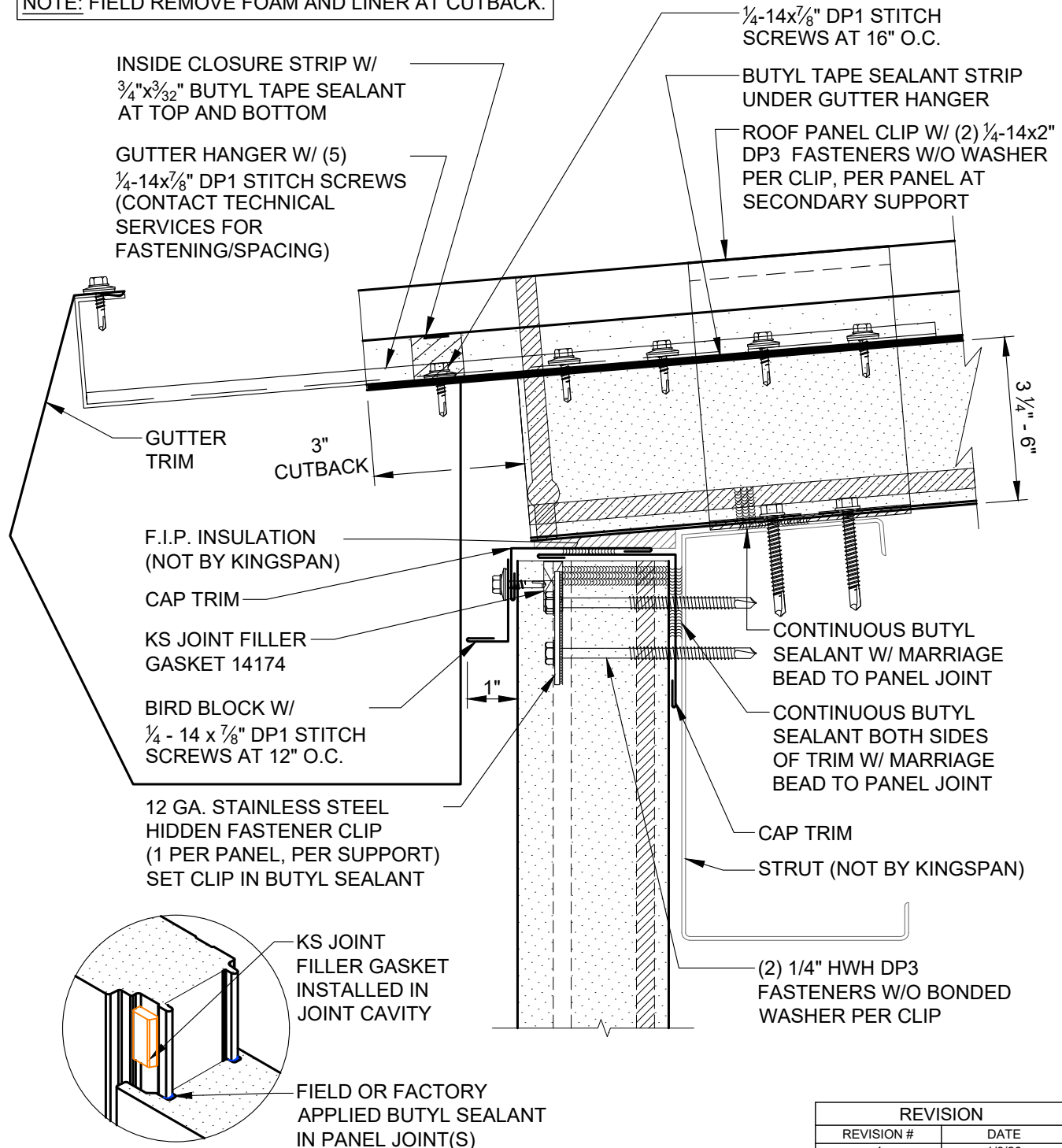
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KINGSEAM ROOF PANEL

NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP, USING $\frac{1}{2}$ " HAND CRIMPING TOOL.

NOTE: FIELD REMOVE FOAM AND LINER AT CUTBACK.



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4	1/9/26

LOW EAVE -
KINGSEAM
SOUTHERN GUTTER

DETAIL #: CI-EV-03-KINGSEAM
RELEASE: 2025
REGION: NORTH AMERICA
www.kingspanpanels.com



KINGSEAM ROOF PANEL

NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP, USING $\frac{1}{2}$ " HAND CRIMPING TOOL.

ROOF PANEL CLIP W/ (2) $\frac{1}{4}$ -14x2" DP3 FASTENERS W/O WASHER PER CLIP, PER PANEL AT SECONDARY SUPPORT

OUTSIDE CLOSURE STRIP SET IN $1" \times \frac{3}{16}"$ BUTYL TAPE AT TOP AND BOTTOM (COLD CLIMATE APPLICATION - RECOMMEND 2 OUTSIDE CLOSURES EACH SIDE)

BUTYL SEALANT END DAM
FILL INTERIOR JOINT CAVITY

HIGH EAVE TRIM

CONTINUOUS BUTYL
SEALANT IN FEMALE
JOINT

F.I.P. INSULATION
(NOT BY KINGSPAN)

CAP TRIM W/ POP RIVETS
AT 8" O.C. (SEALANT
BETWEEN INTERIOR AND
EXTERIOR CAP TRIMS)

KS JOINT FILLER
GASKET 14174

12 GA. STAINLESS STEEL
HIDDEN FASTENER CLIP
(1 PER PANEL, PER SUPPORT)
SET CLIP IN BUTYL SEALANT

(2) $\frac{1}{4}$ " HWH DP3 FASTENERS
W/O BONDED WASHER PER CLIP

FIELD OR FACTORY APPLIED
CONTINUOUS BUTYL SEALANT
IN VERTICAL PANEL JOINT
INSTALLER TO ENSURE THERE
ARE NO GAPS IN SEALANT

POP RIVETS AT 8" O.C.

"SRC-02" METAL CLOSURE
W/ $\frac{1}{4}$ -14x $\frac{7}{8}$ " DP1 STITCH
SCREWS AT 6" O.C. SET IN
 $1" \times \frac{3}{16}"$ BUTYL TAPE
SEALANT AT TOP AND
BOTTOM

$\frac{1}{2}"$

$3\frac{1}{4}" - 6"$

CONTINUOUS BUTYL
SEALANT W/ MARRIAGE
BEAD TO PANEL JOINT

CONTINUOUS BUTYL SEALANT
BOTH SIDES OF TRIM W/ MARRIAGE
BEAD TO PANEL JOINT

CAP TRIM

HIGH EAVE STRUT
(NOT BY KINGSPAN)

KS JOINT
FILLER GASKET
INSTALLED IN
JOINT CAVITY

FIELD OR FACTORY
APPLIED BUTYL
SEALANT IN PANEL
JOINT(S)

NOTE: BARE SRC- PROVIDED FOR
PROJECTS WITH ROOF SLOPE $\leq 1:12$
AND EAVE HEIGHT $\geq 20'$.

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HIGH EAVE -
KINGSEAM
SOUTHERN GUTTER

DETAIL #: CI-EV-04-KINGSEAM

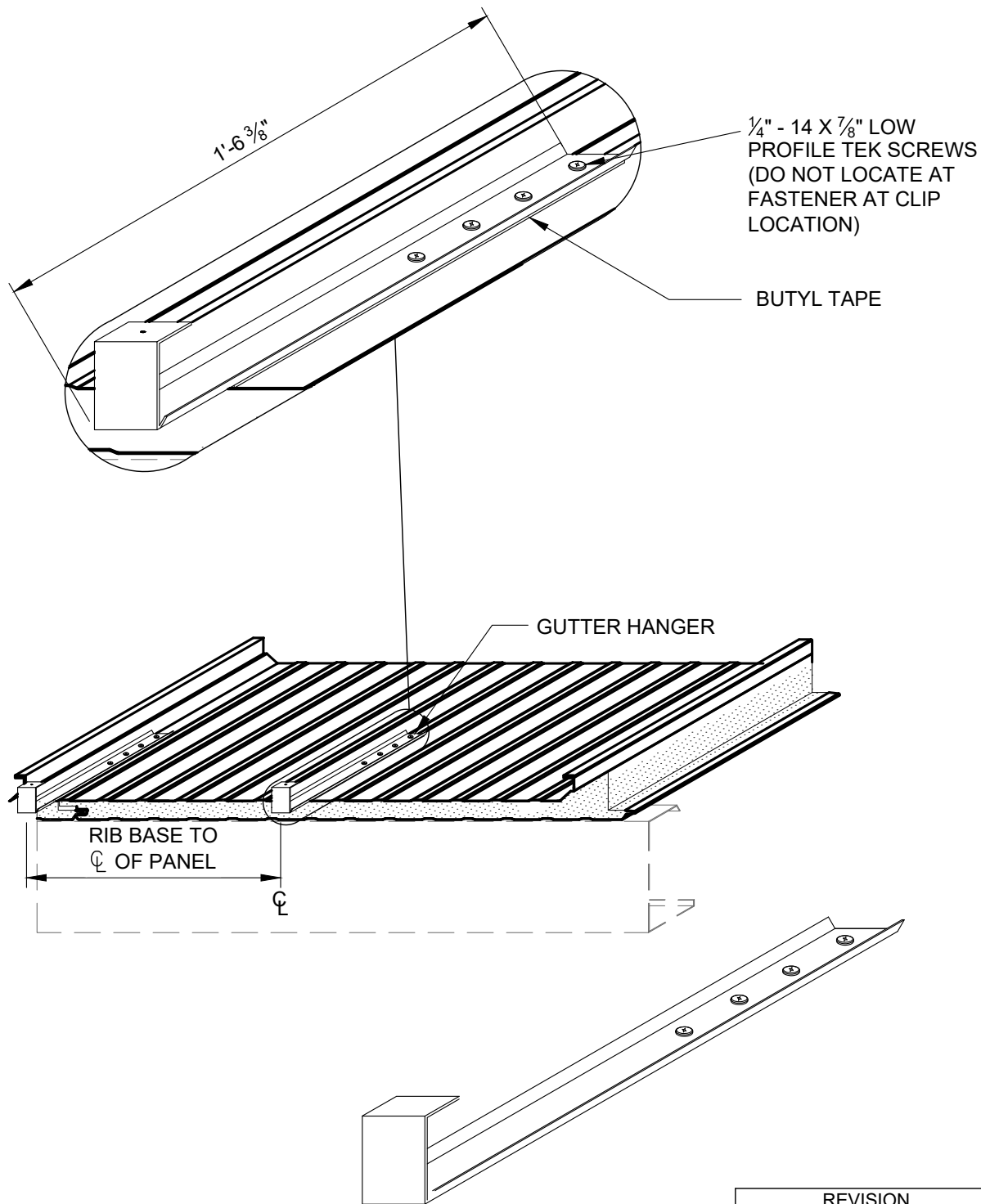
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KINGSEAM ROOF PANEL



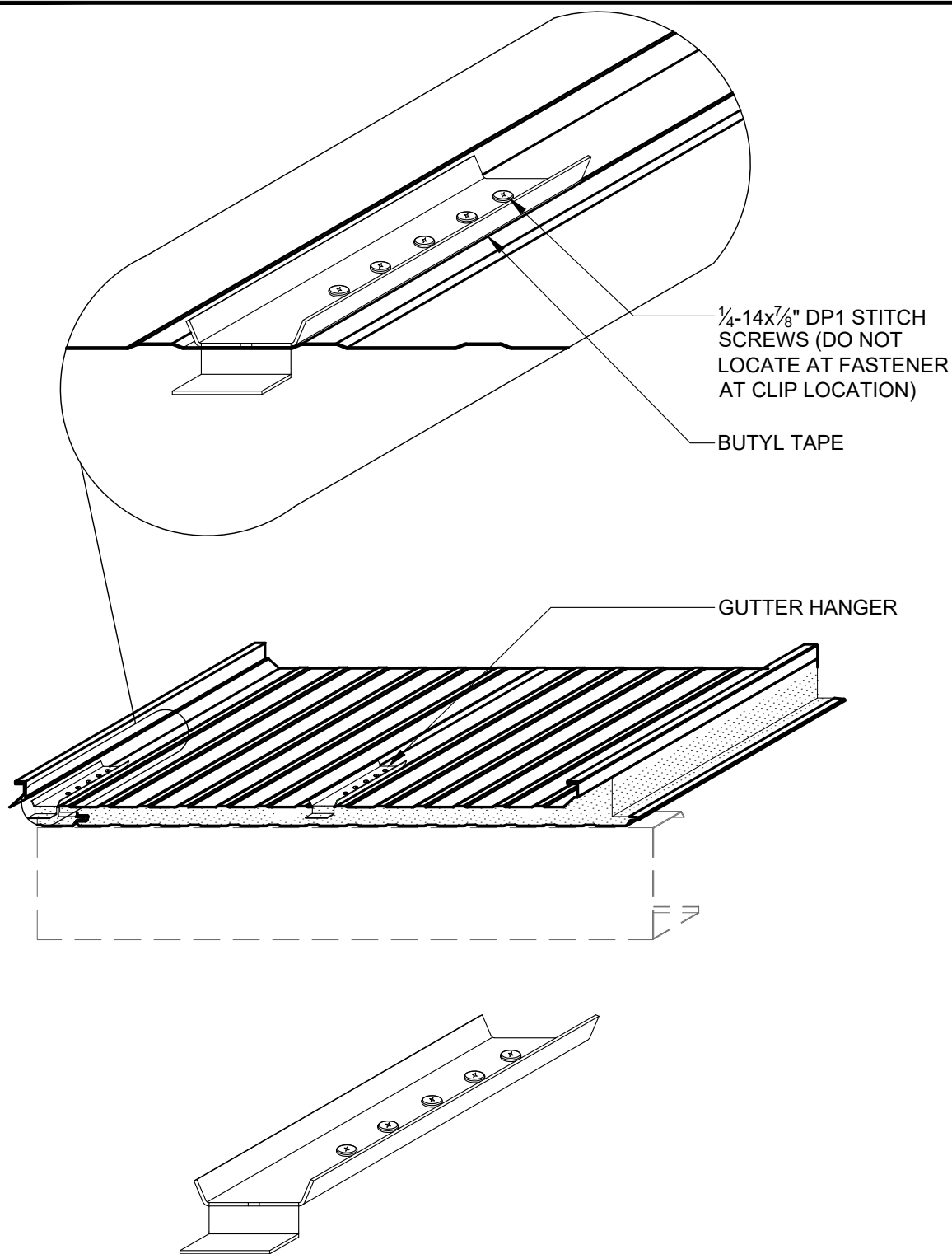
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GUTTER HANGER
- SOUTHERN

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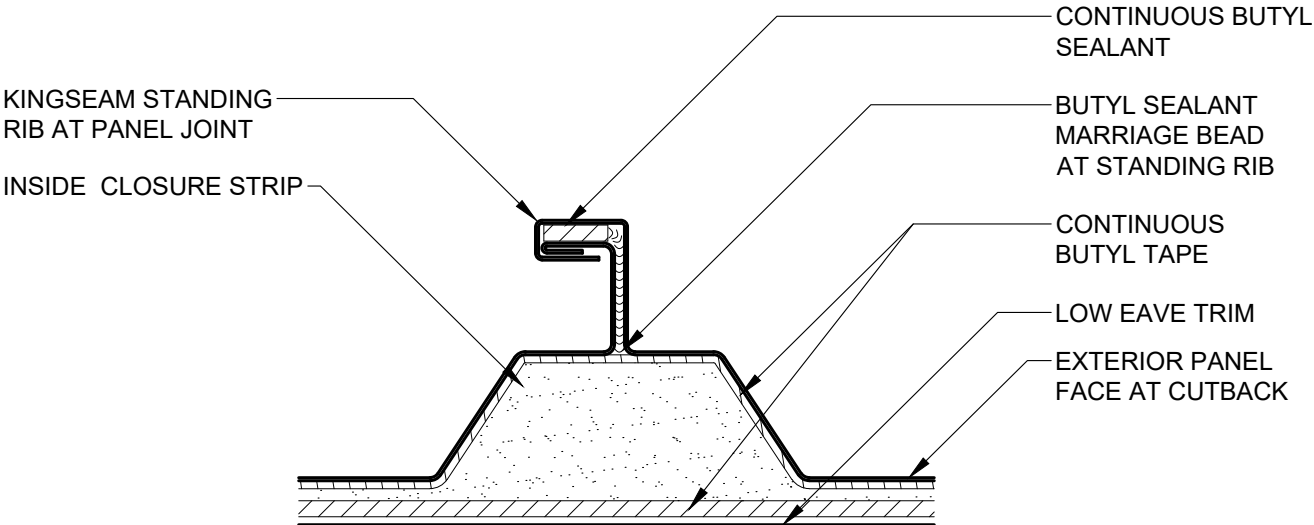
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GUTTER HANGER
- NORTHERN

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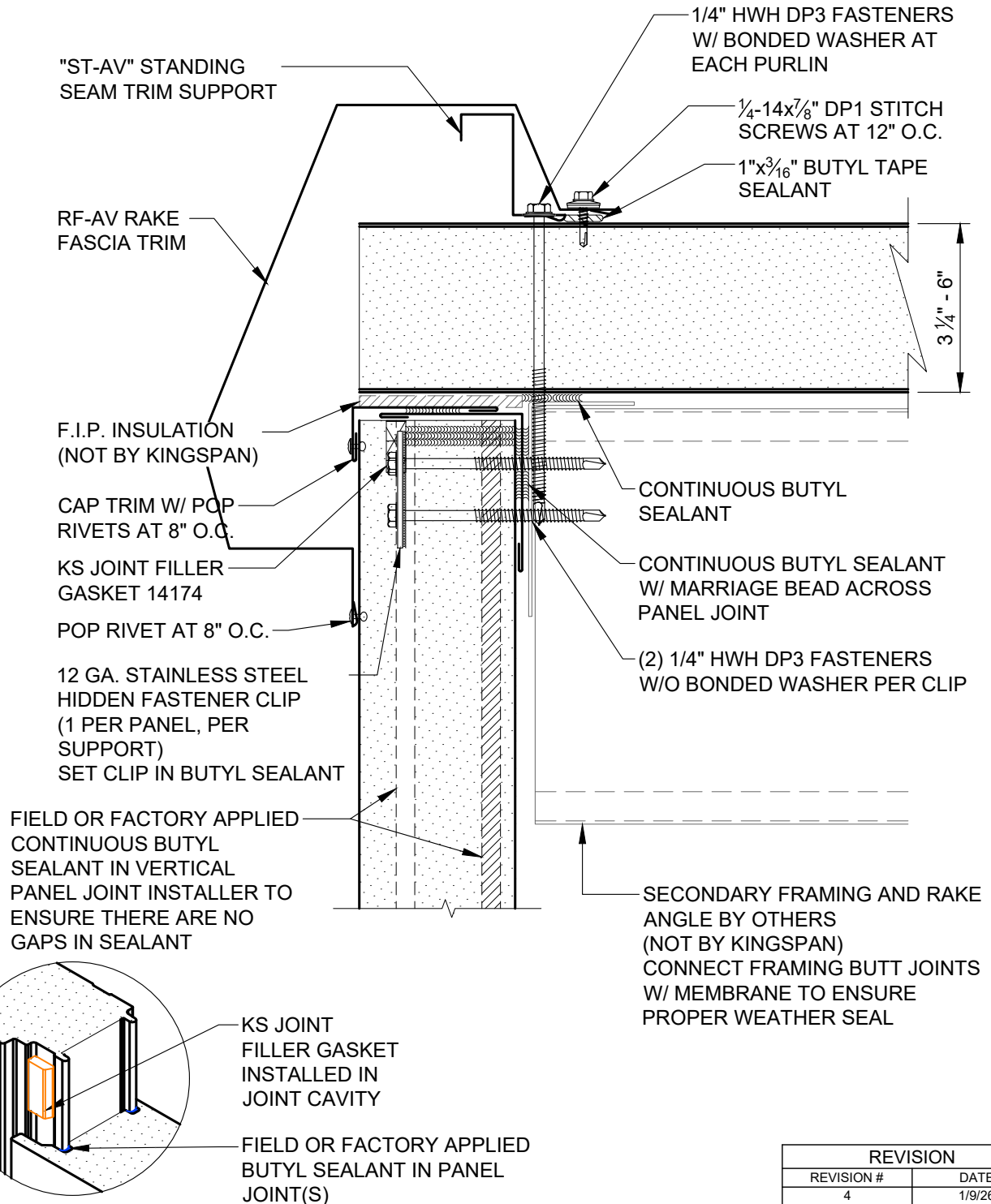
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LOW EAVE
SEALANT AT STANDING RIB

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RAKE FASCIA - KINGSEAM
NORTHERN GUTTER

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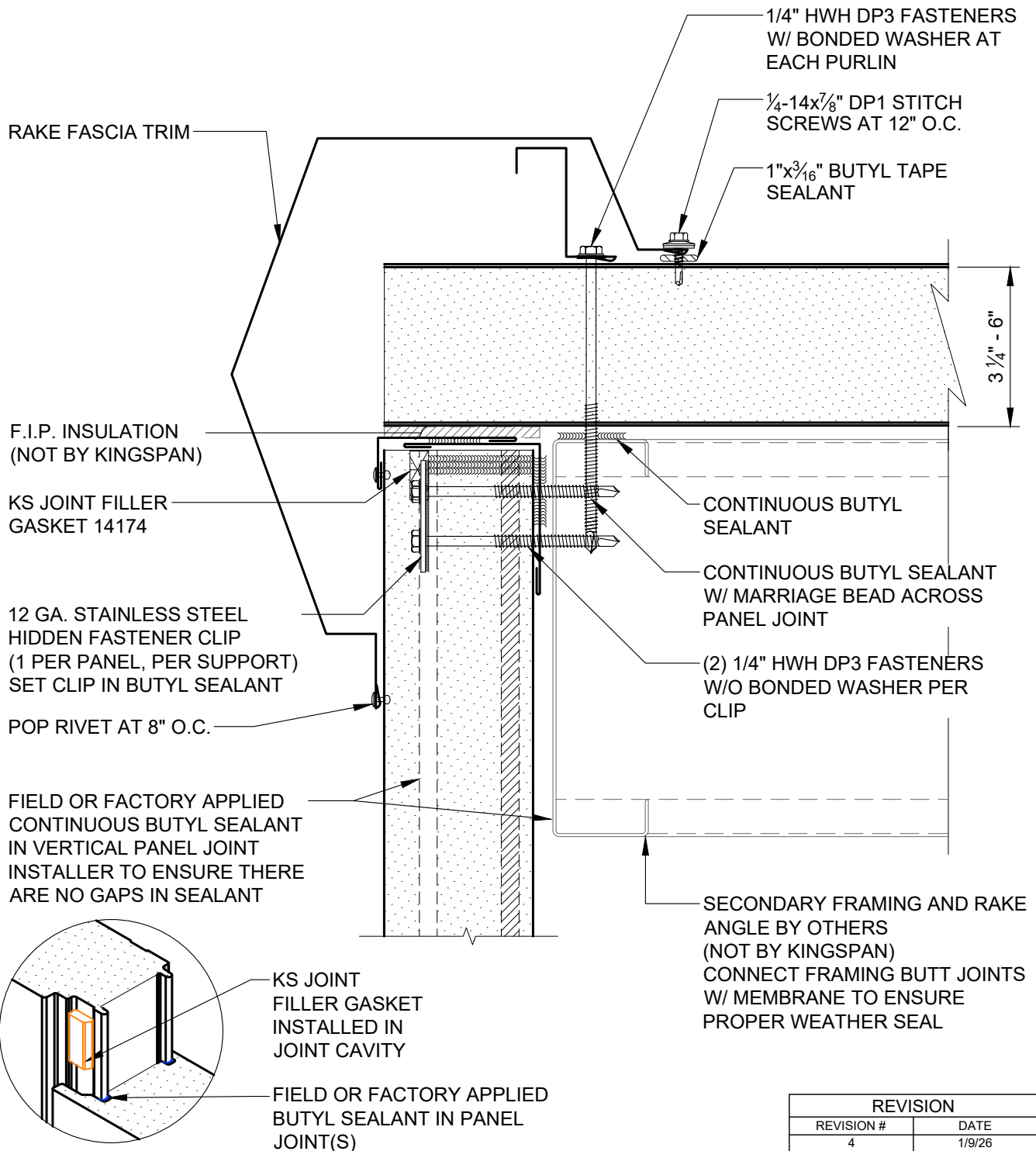
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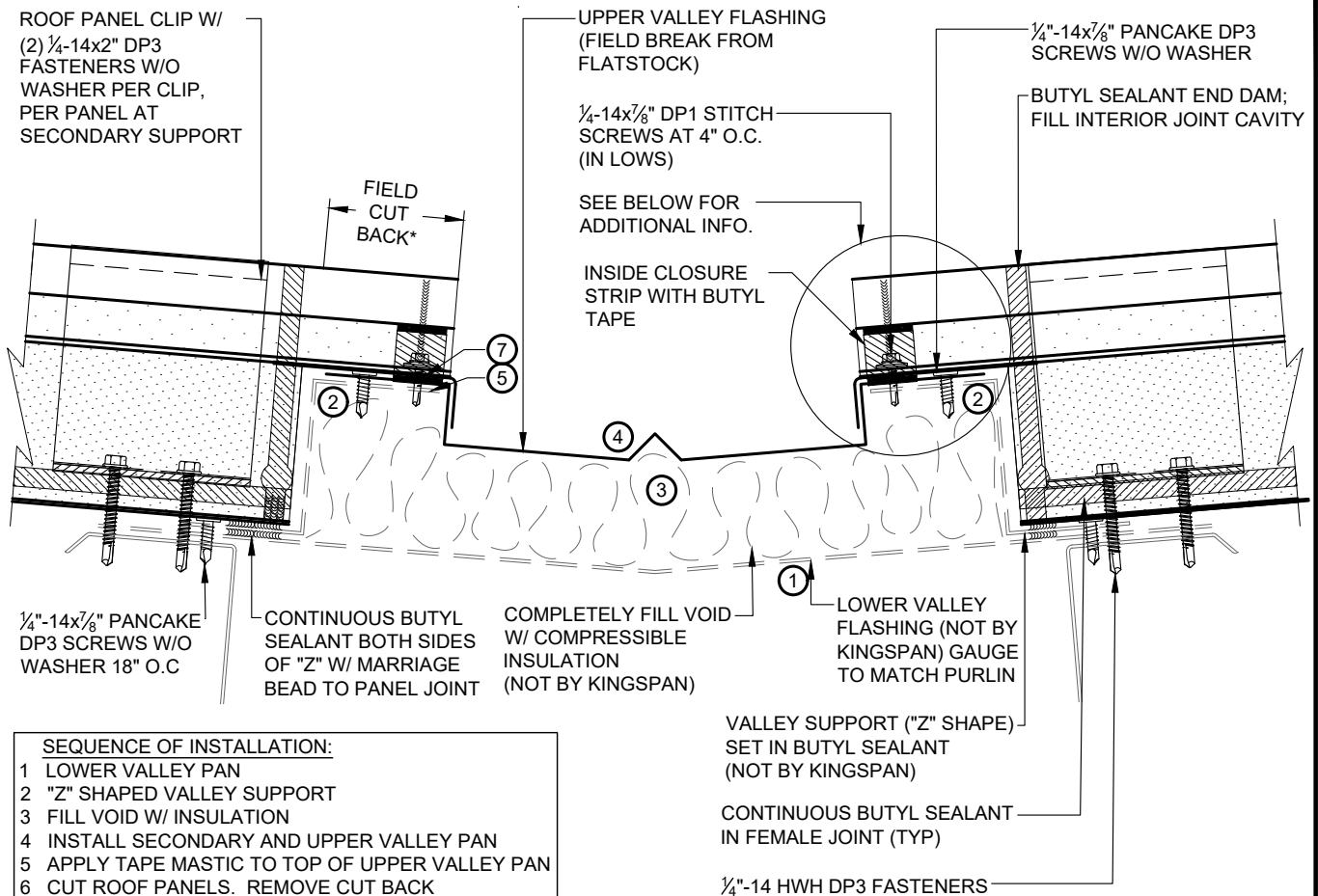
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RAKE FASCIA- KINGSEAM
SOUTHERN GUTTER

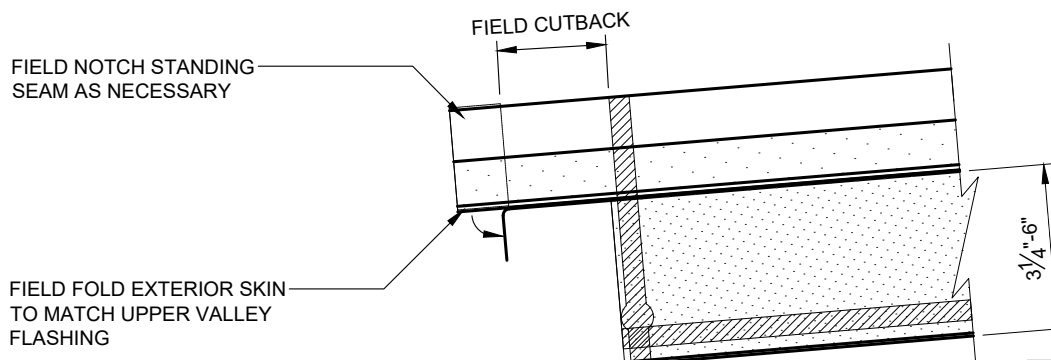
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KINGSEAM ROOF PANEL



* FIELD CUT ROOF PANELS FOR 4 1/4" OR 3" CUTBACK. CUTBACK SIZE TO MACH THE EAVE CONDITION



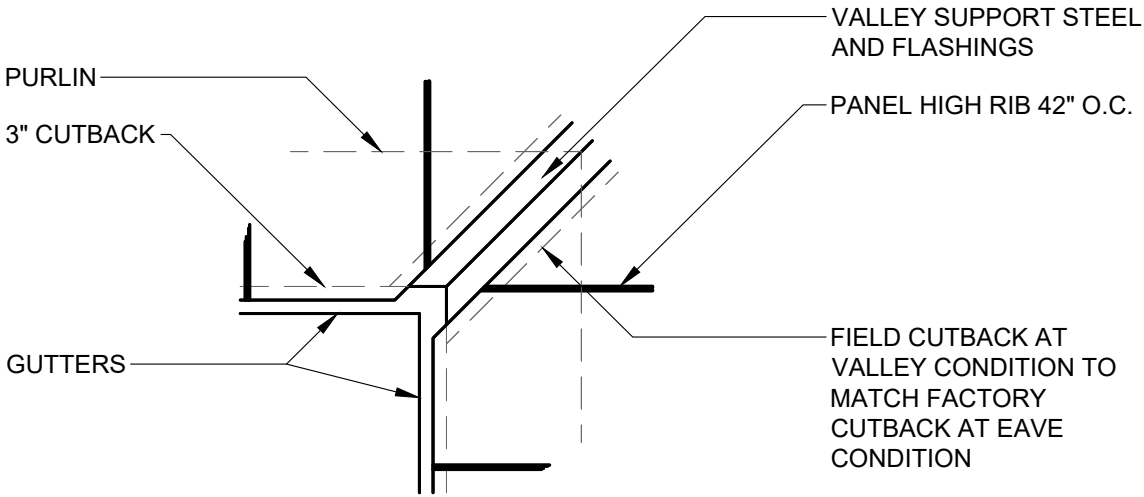
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VALLEY CONDITION

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KINGSEAM ROOF PANEL



ROOF VALLEY PLAN

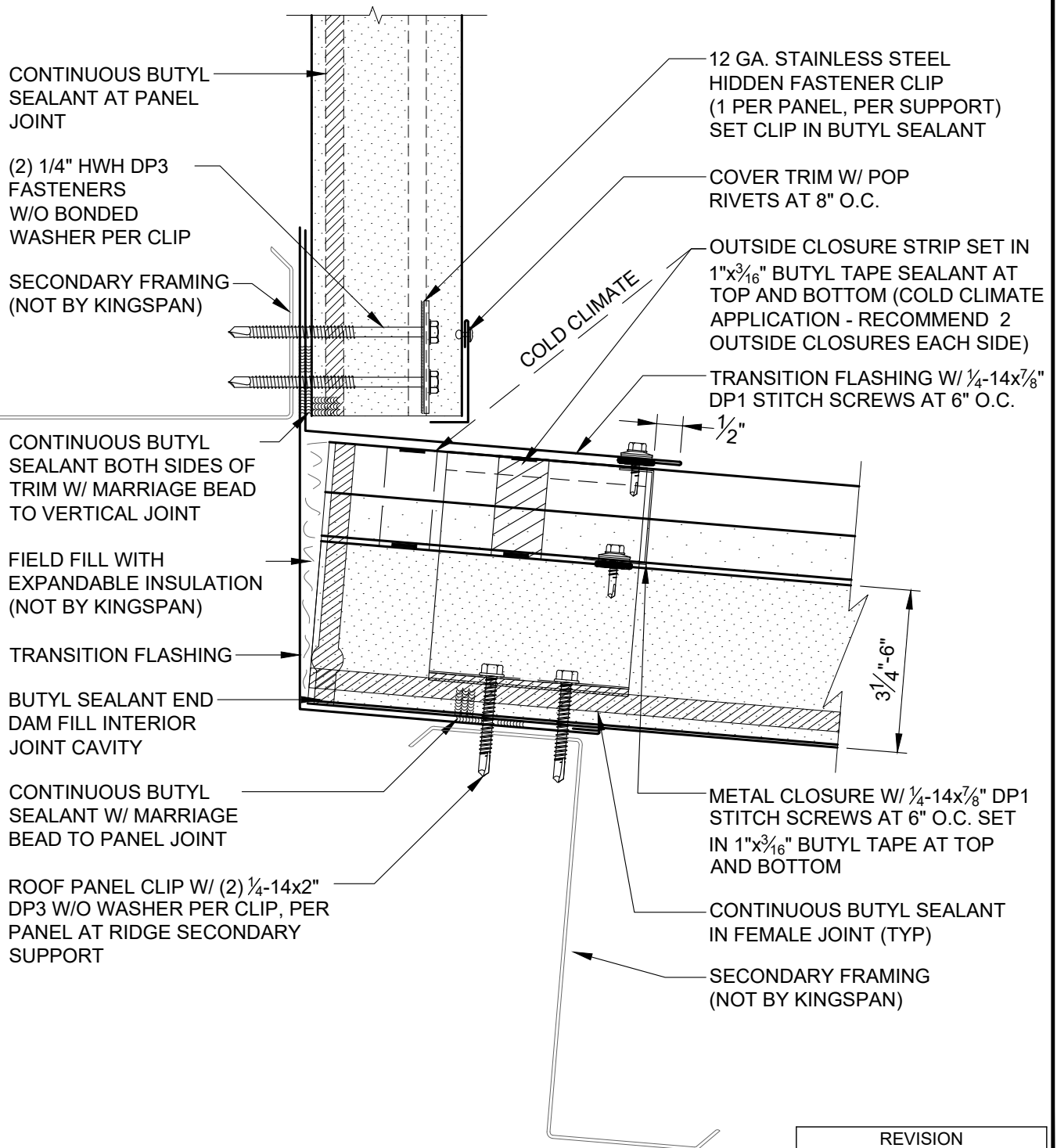
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VALLEY ASSEMBLY

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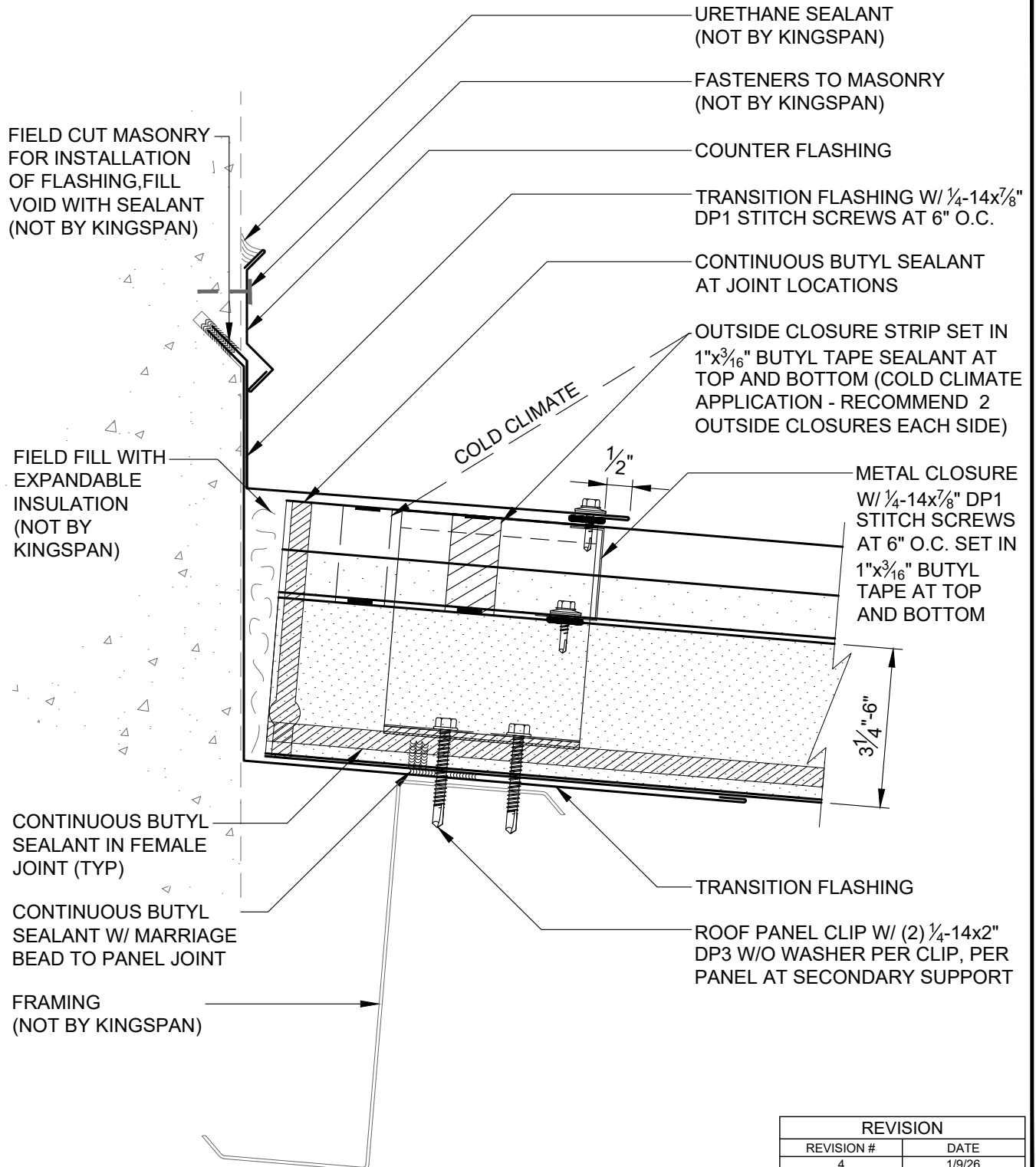
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WALL TO ROOF
HIGH EAVE

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MASONRY WALL
TO HIGH EAVE

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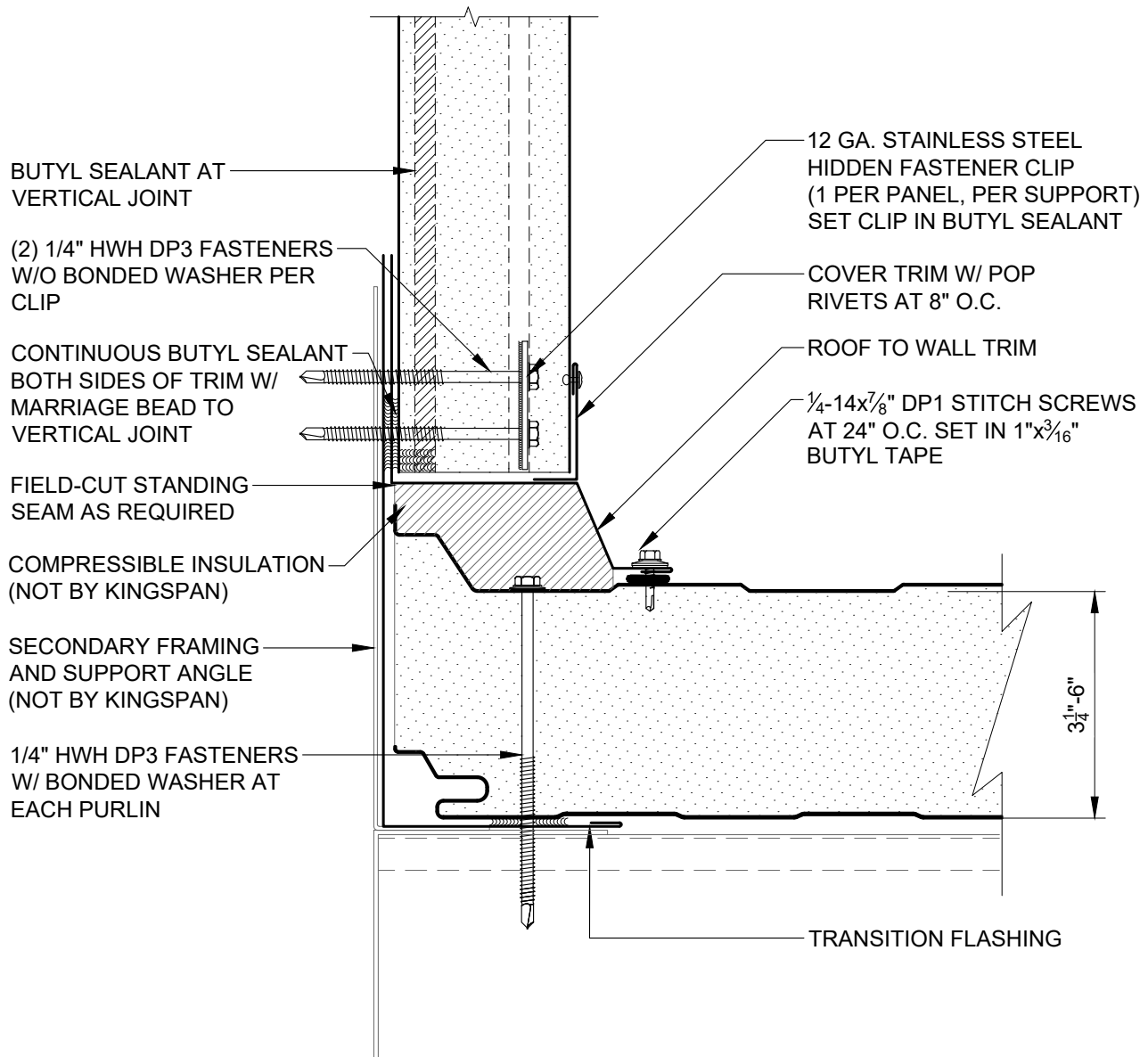
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KINGSEAM ROOF PANEL



CONTACT KINGSPAN TECHNICAL SERVICES FOR PROJECT SPECIFIC FASTENING REQUIREMENTS

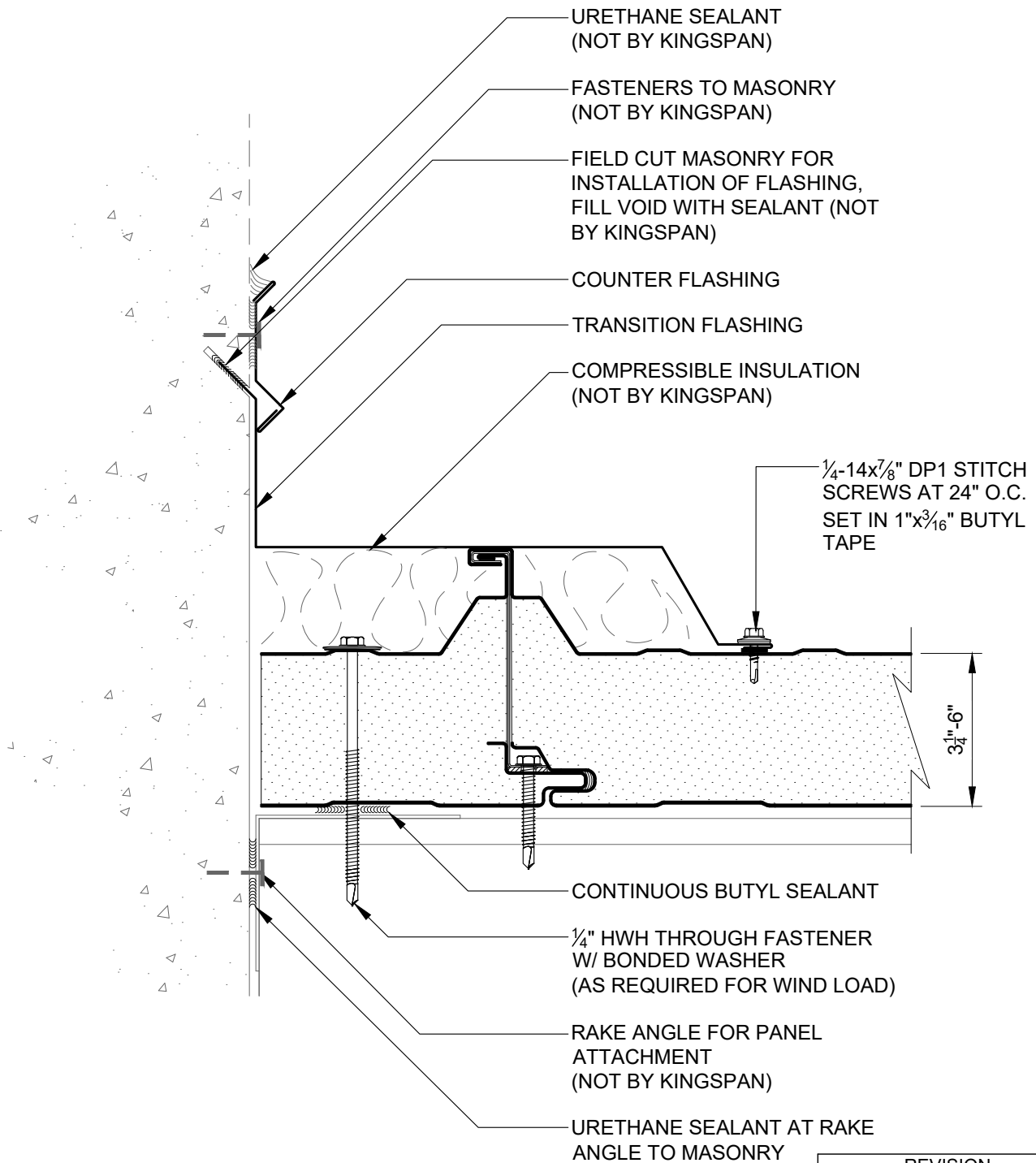
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WALL TO RAKE

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KINGSEAM ROOF PANEL



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MASONRY WALL TO
RAKE TRANSITION

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