

# VALE - HORIZONTAL INSTALL

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## 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. CLIMACTIC 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.***

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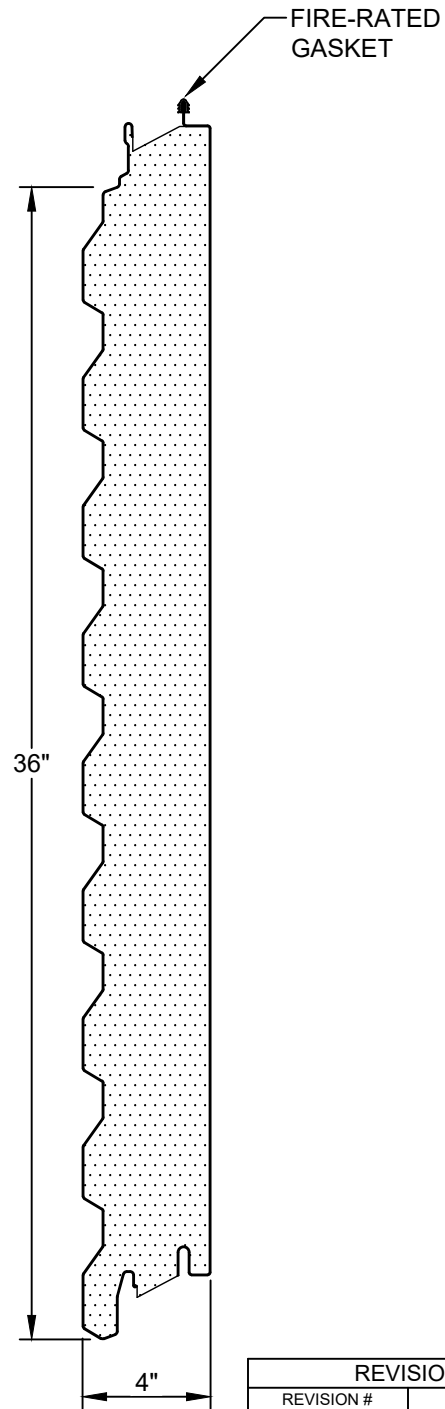
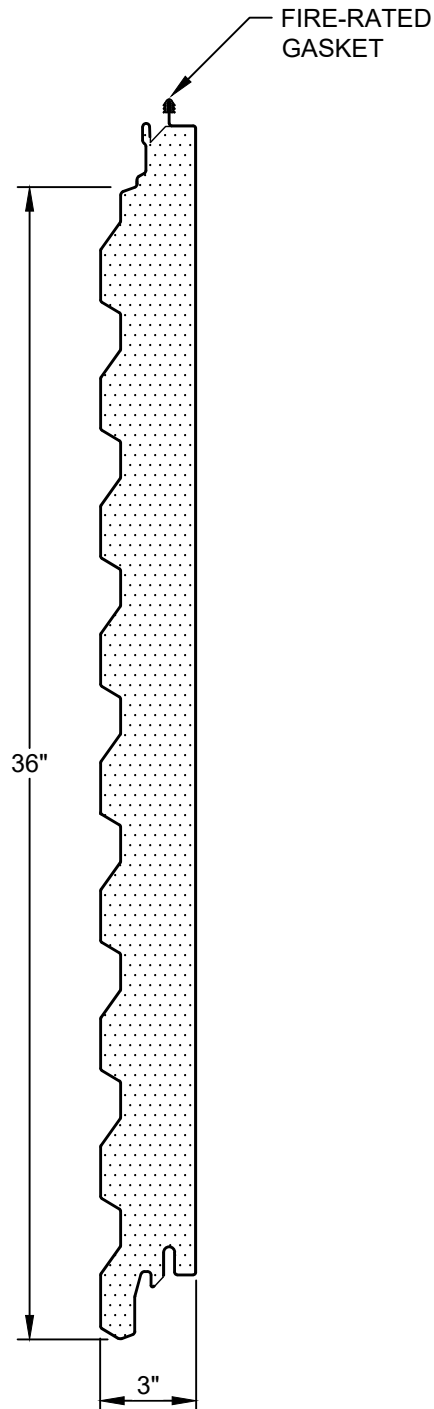
CORE DEPTHS:  
3", 4"

STEEL GAUGES:  
EXTERIOR: 22GA  
INTERIOR: 24GA

MODULE WIDTH:  
36"

PANEL ORIENTATION:  
HORIZONTAL

EMBOSSING:  
EXTERIOR: STUCCO / SMOOTH  
INTERIOR: SMOOTH  
LENGTHS:  
MINIMUM: 2'-0"  
MAXIMUM: 24'-0"



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PANEL PROFILES -  
HORIZONTAL

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# VALE - HORIZONTAL INSTALL

## METAL CLOSURE

### LEFT

SIDE  
VIEW



TOP  
VIEW



SECTION  
VIEW

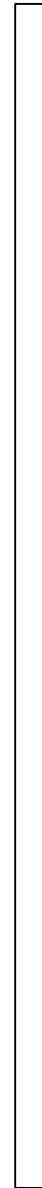


### RIGHT

SECTION  
VIEW



TOP  
VIEW



SIDE  
VIEW



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METAL CLOSURE

DETAIL #: CI-PP-02-VH

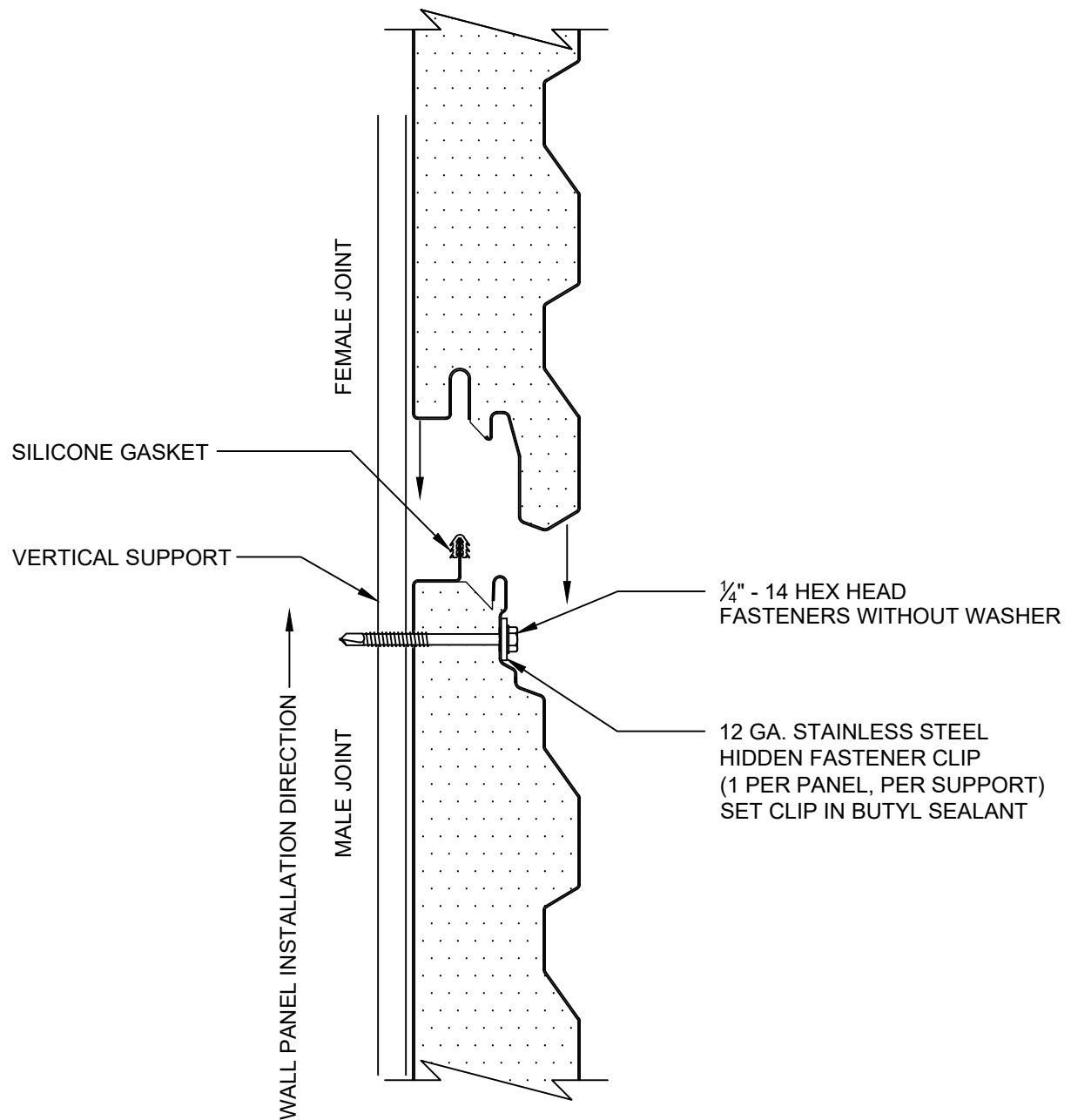
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PANEL JOINT- EXPANDED

DETAIL #: CI-PJ-01-VH

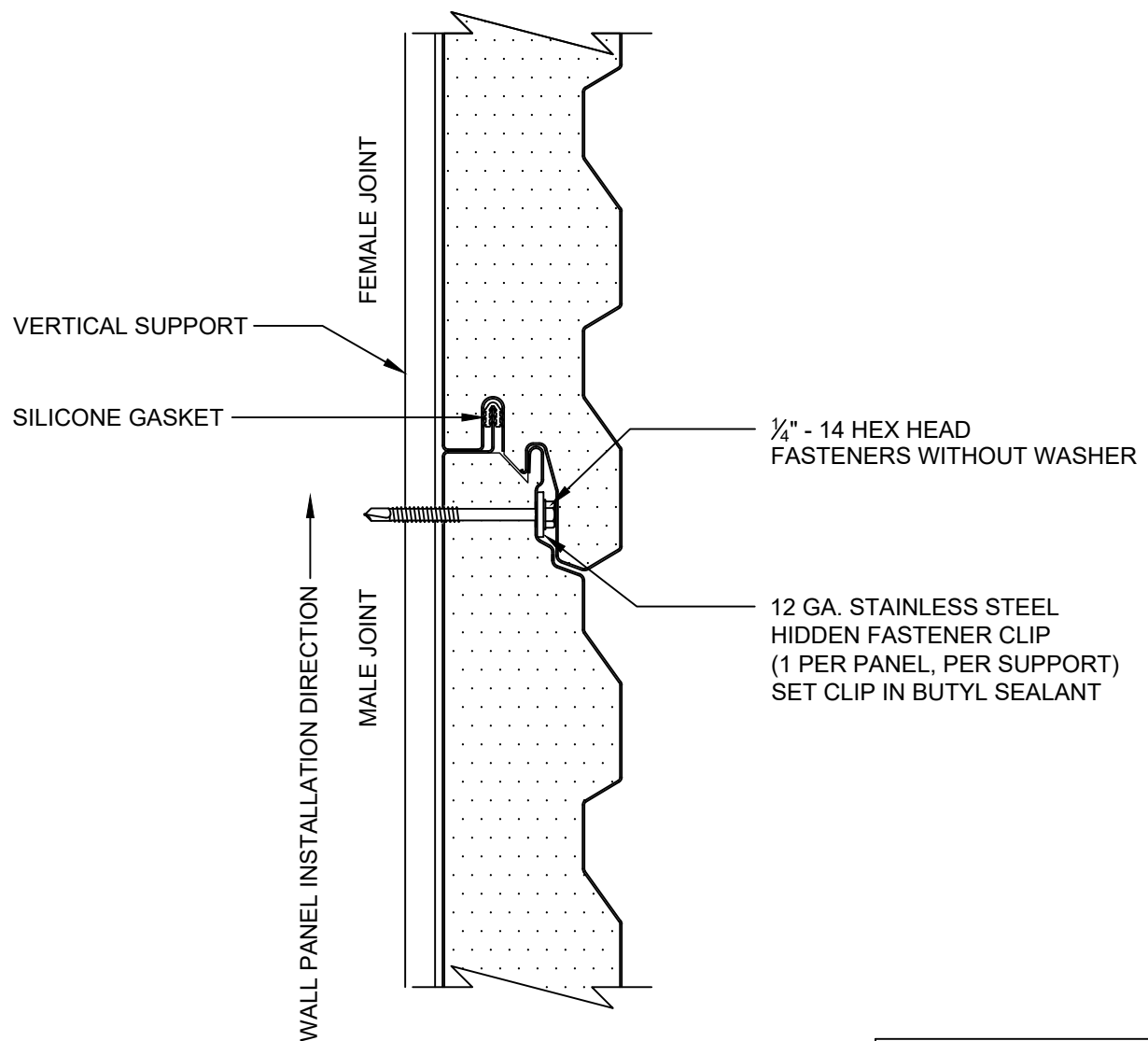
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PANEL JOINT- ENGAGED

DETAIL #: CI-PJ-02-VH

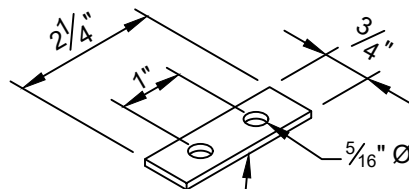
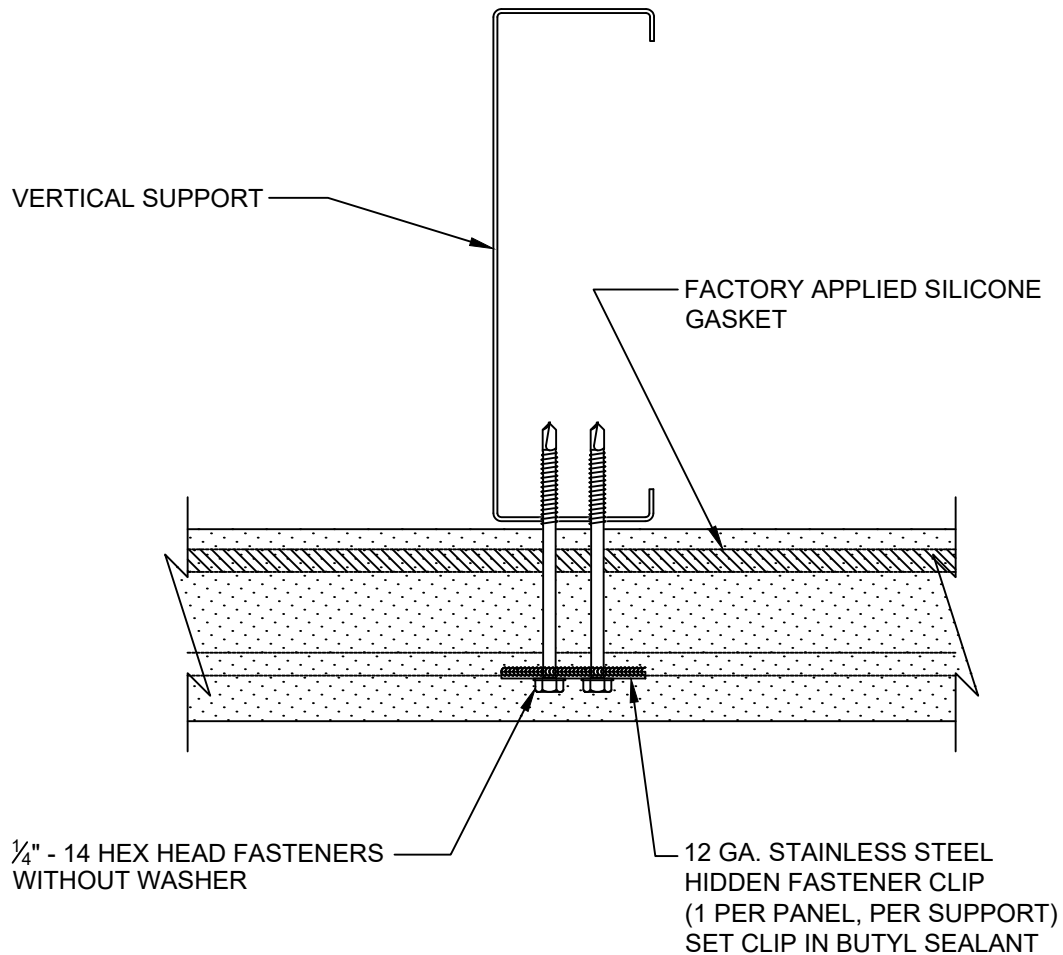
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STANDARD:  
12 GA. STAINLESS STEEL  
TWO-HOLE HIDDEN FASTENER CLIP

NOTE:  
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FOR SPECIFIC PROJECT RECOMMENDATIONS

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PANEL JOINT-  
INTERMEDIATE  
FASTENING

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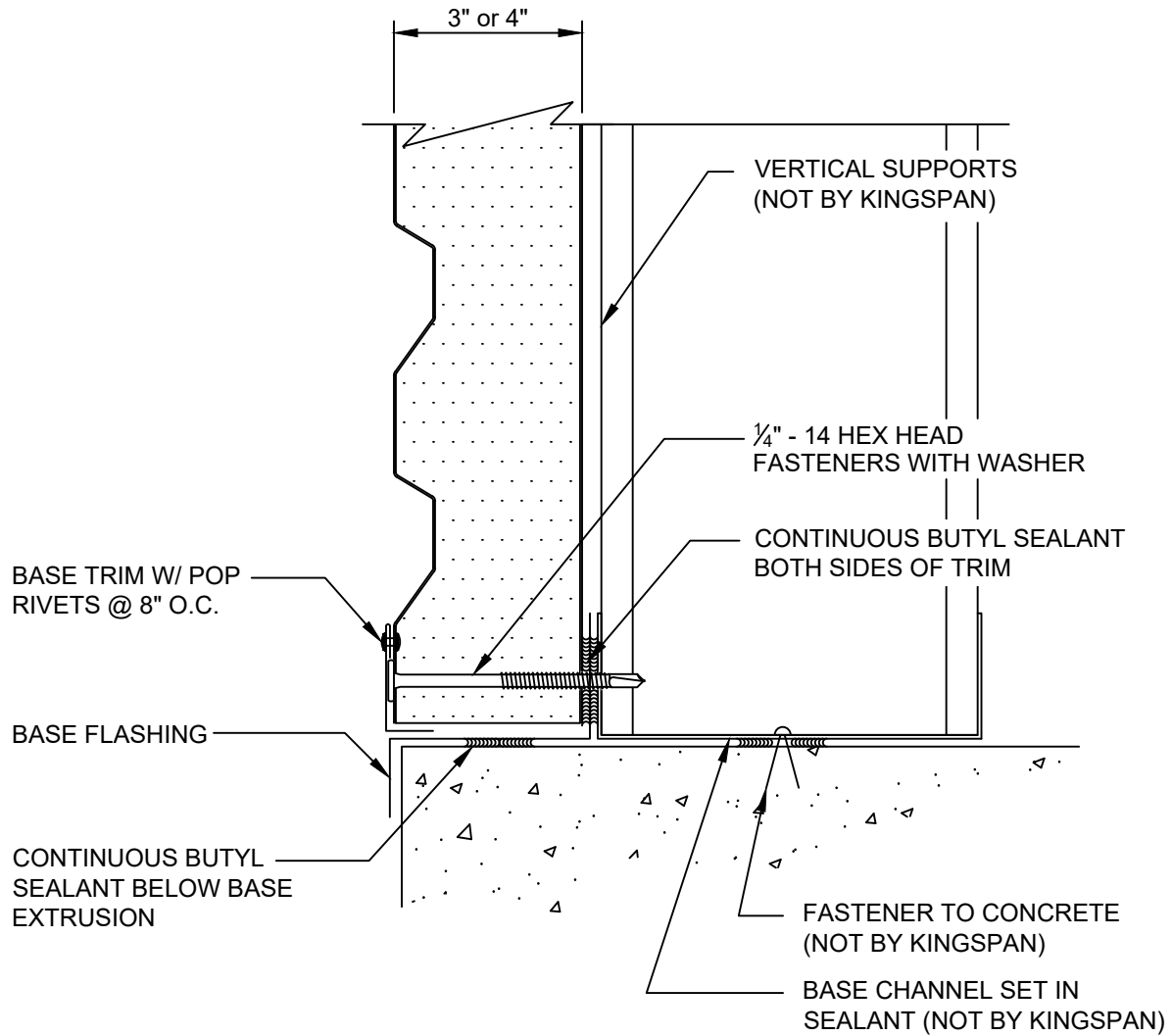
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FLUSH BASE DETAIL- W/  
TRIM

DETAIL #: CI-BS-01-VH

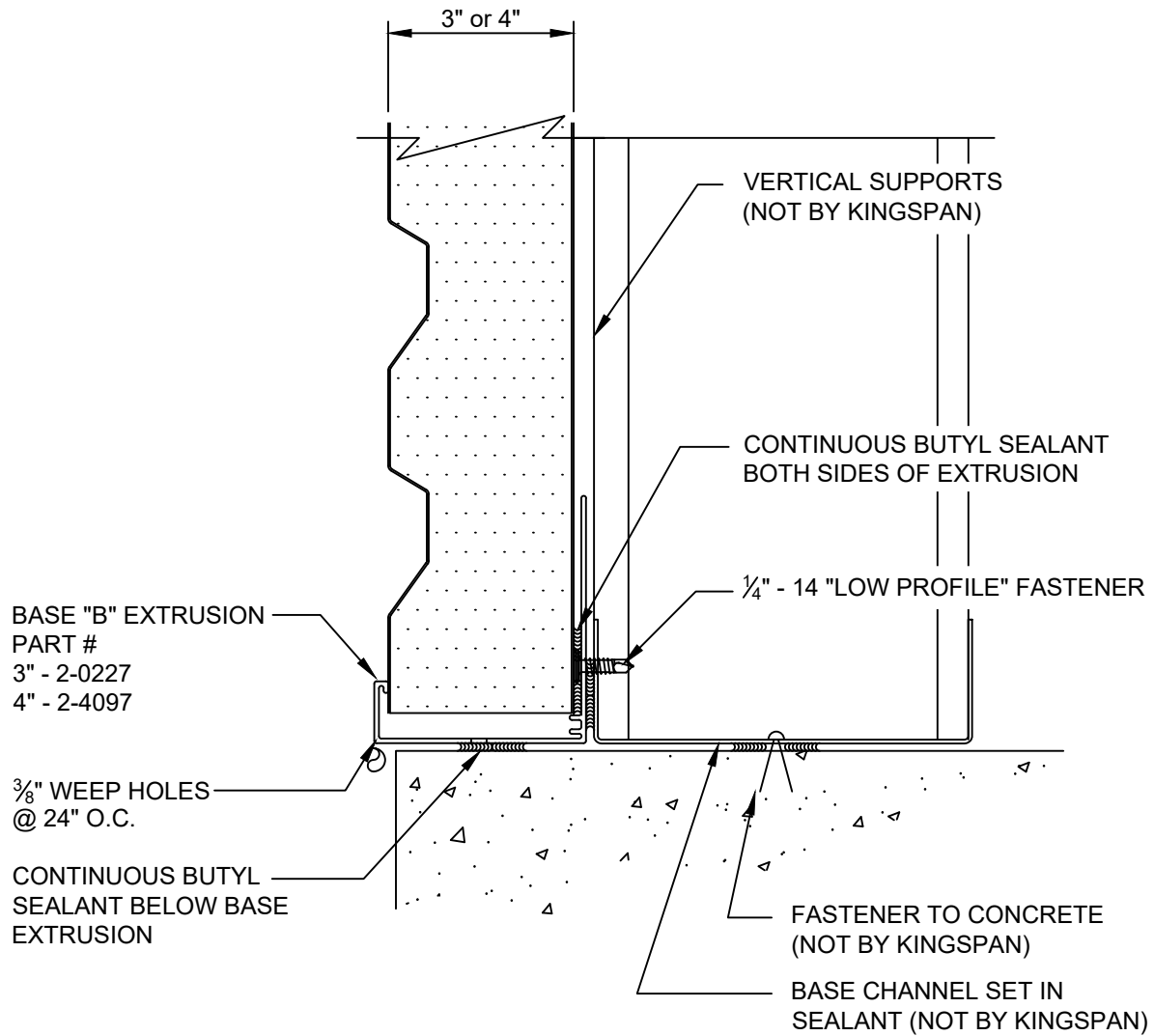
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FLUSH BASE DETAIL- W/  
EXTRUSION

DETAIL #: CI-BS-02-VH

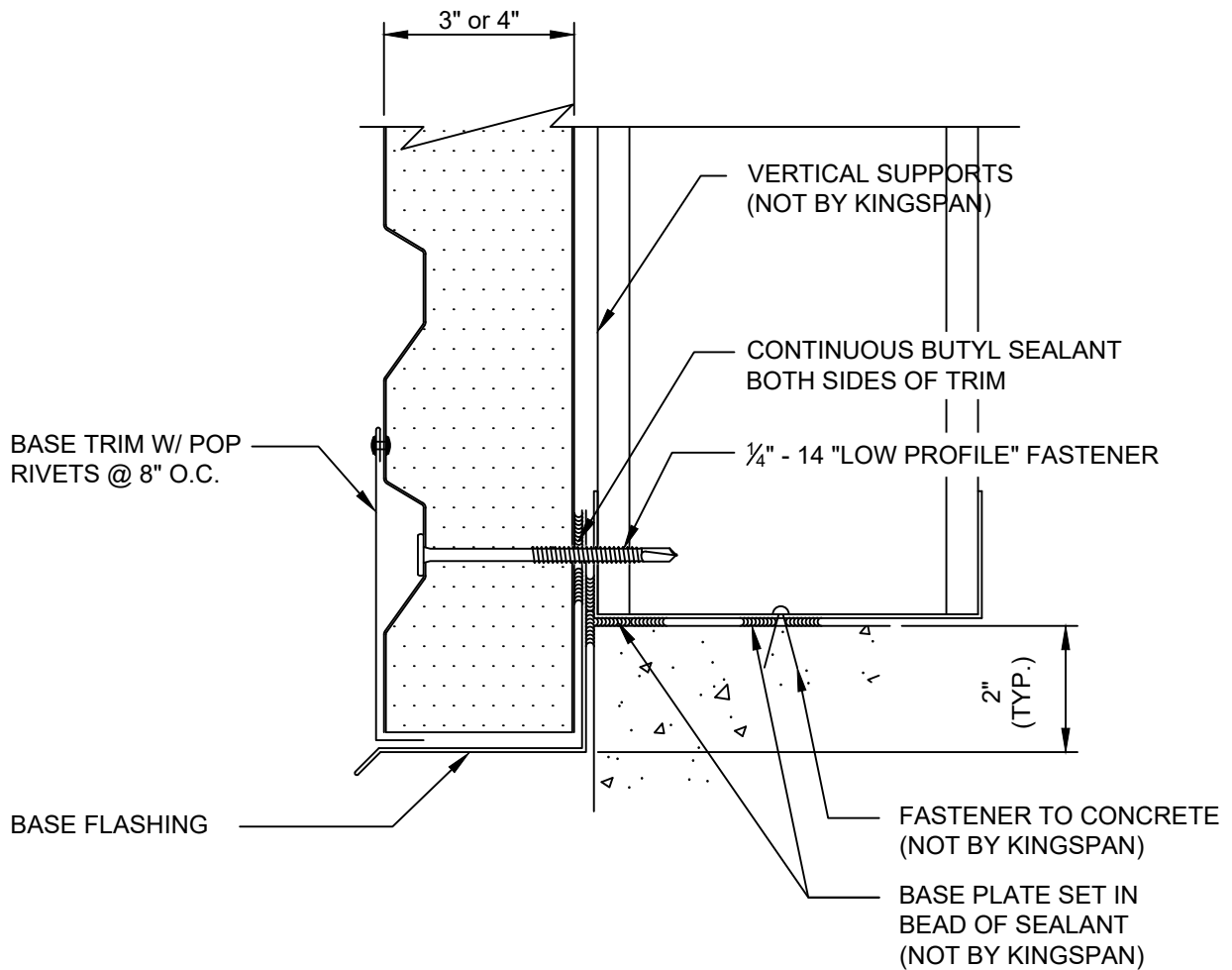
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OVERHANG BASE DETAIL-  
CUT PANEL WITH TRIM

DETAIL #: CI-BS-03-VH

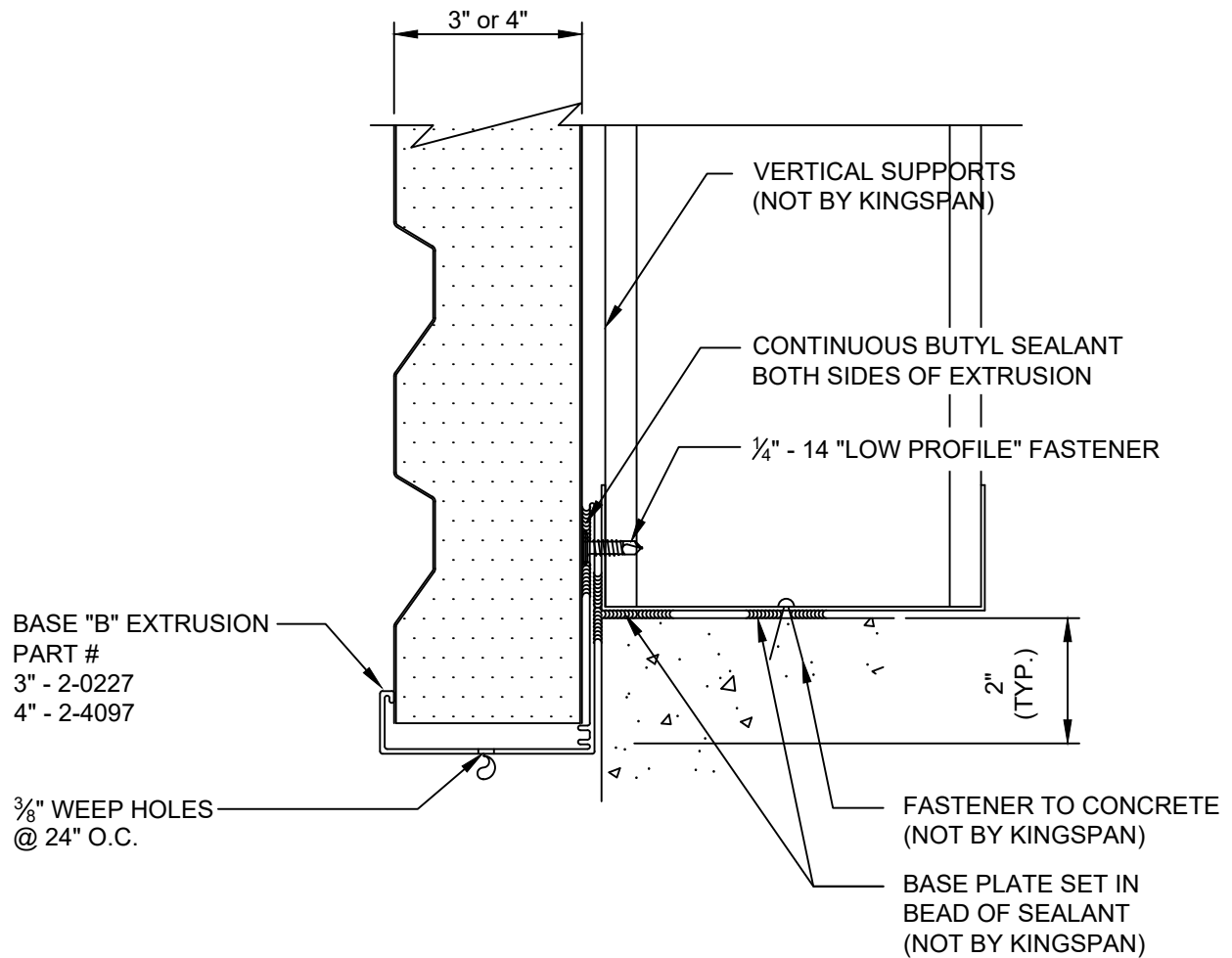
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OVERHANG BASE DETAIL-  
CUT PANEL WITH  
EXTRUSION

DETAIL #: CI-BS-04-VH

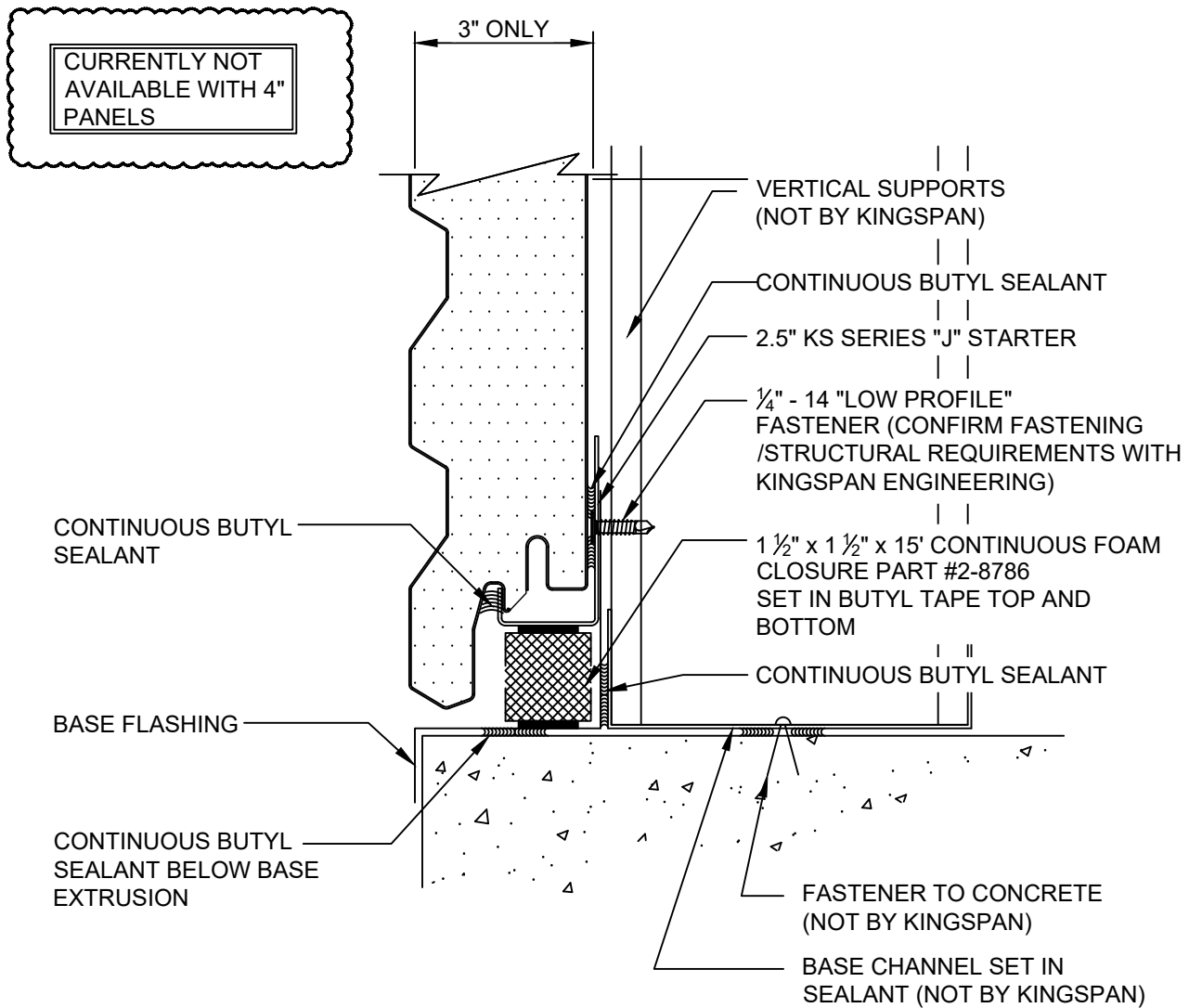
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FLUSH BASE DETAIL - "J"  
STARTER W/ TRIM

DETAIL #: CI-BS-05-VH

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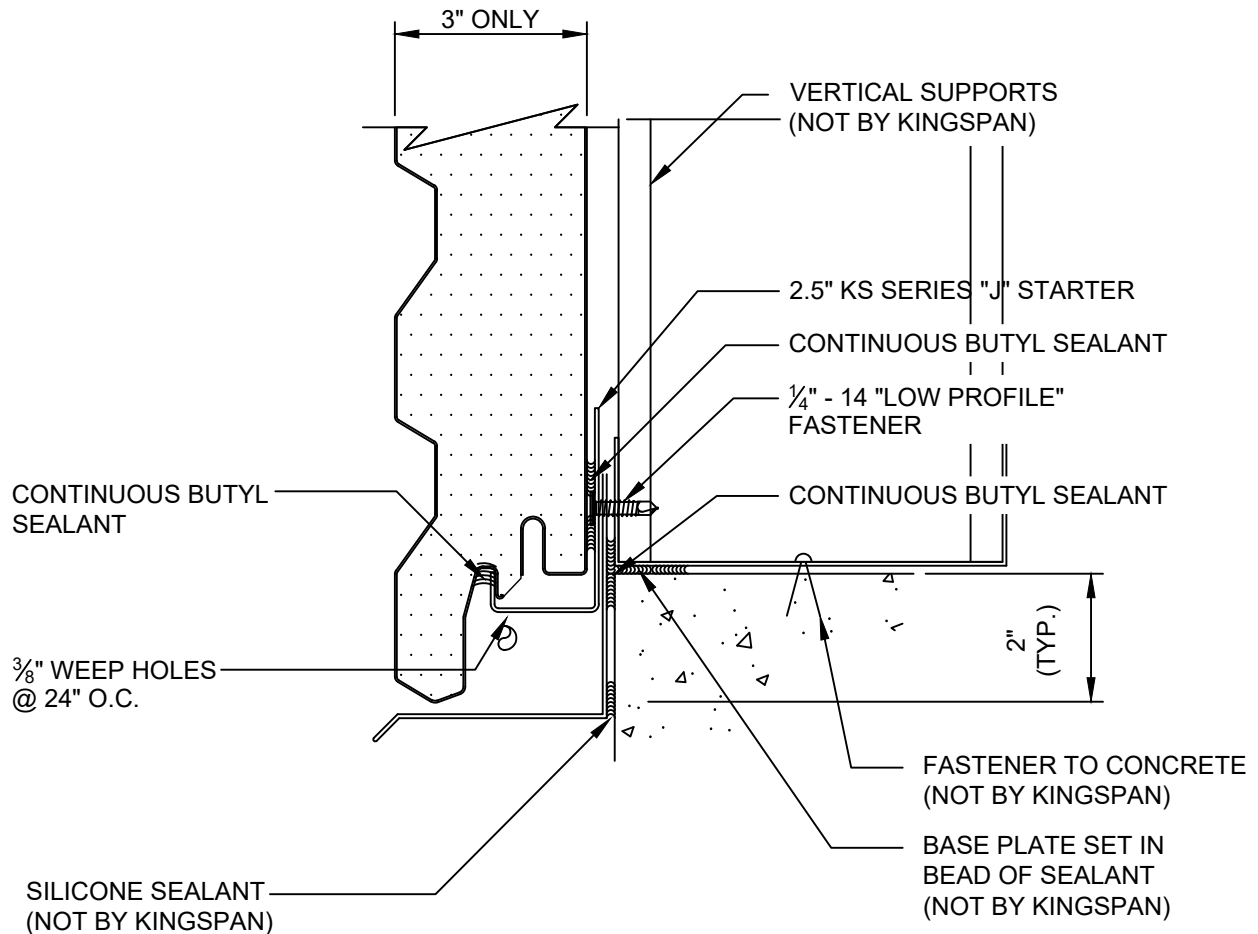
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# VALE - HORIZONTAL INSTALL

CURRENTLY NOT  
AVAILABLE WITH 4"  
PANELS



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OVERHANG BASE DETAIL -  
"J" STARTER W/ TRIM

DETAIL #: CI-BS-06-VH

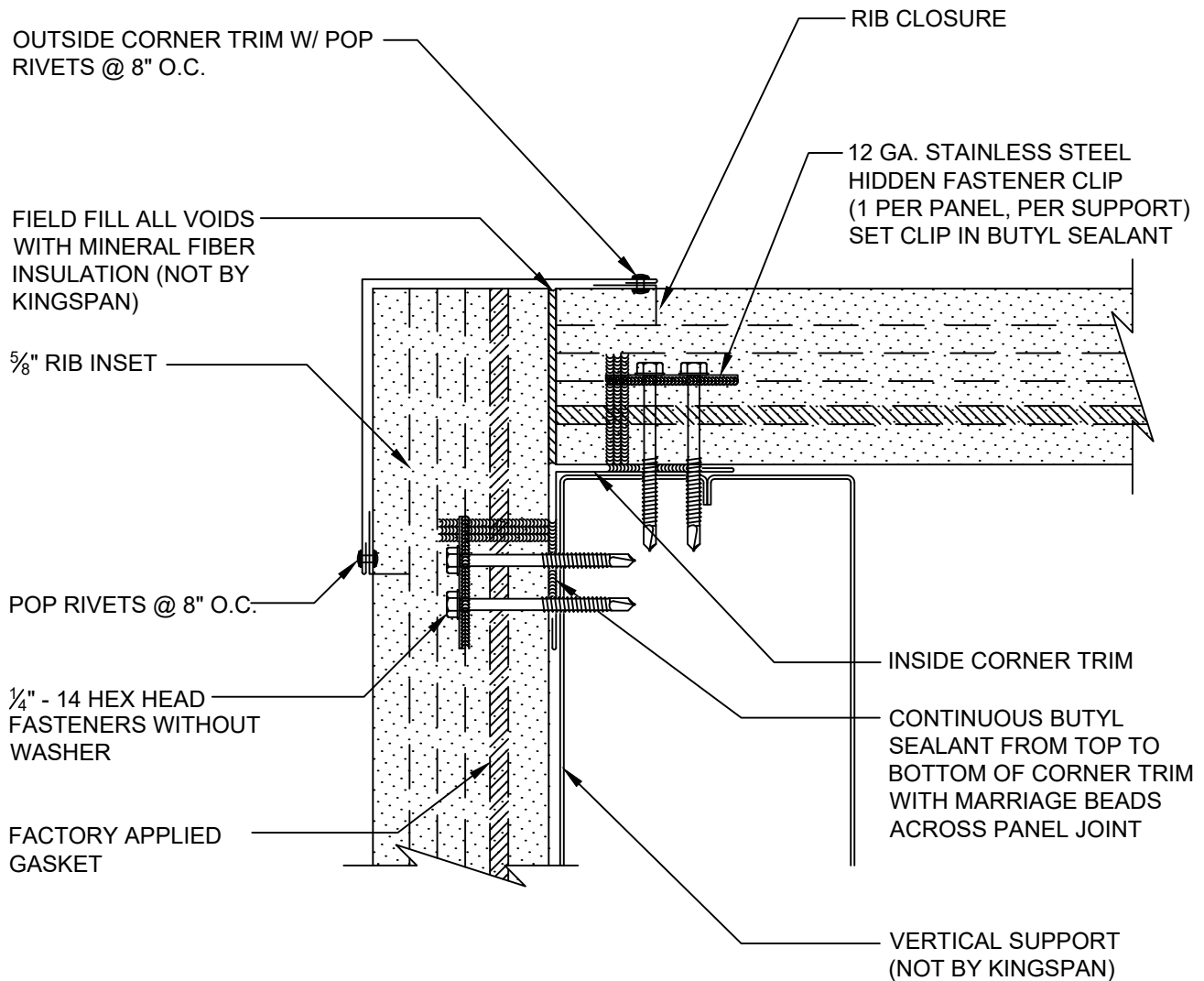
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OUTSIDE CORNER  
WITH FLAT TRIM

DETAIL #: CI-OC-01-VH

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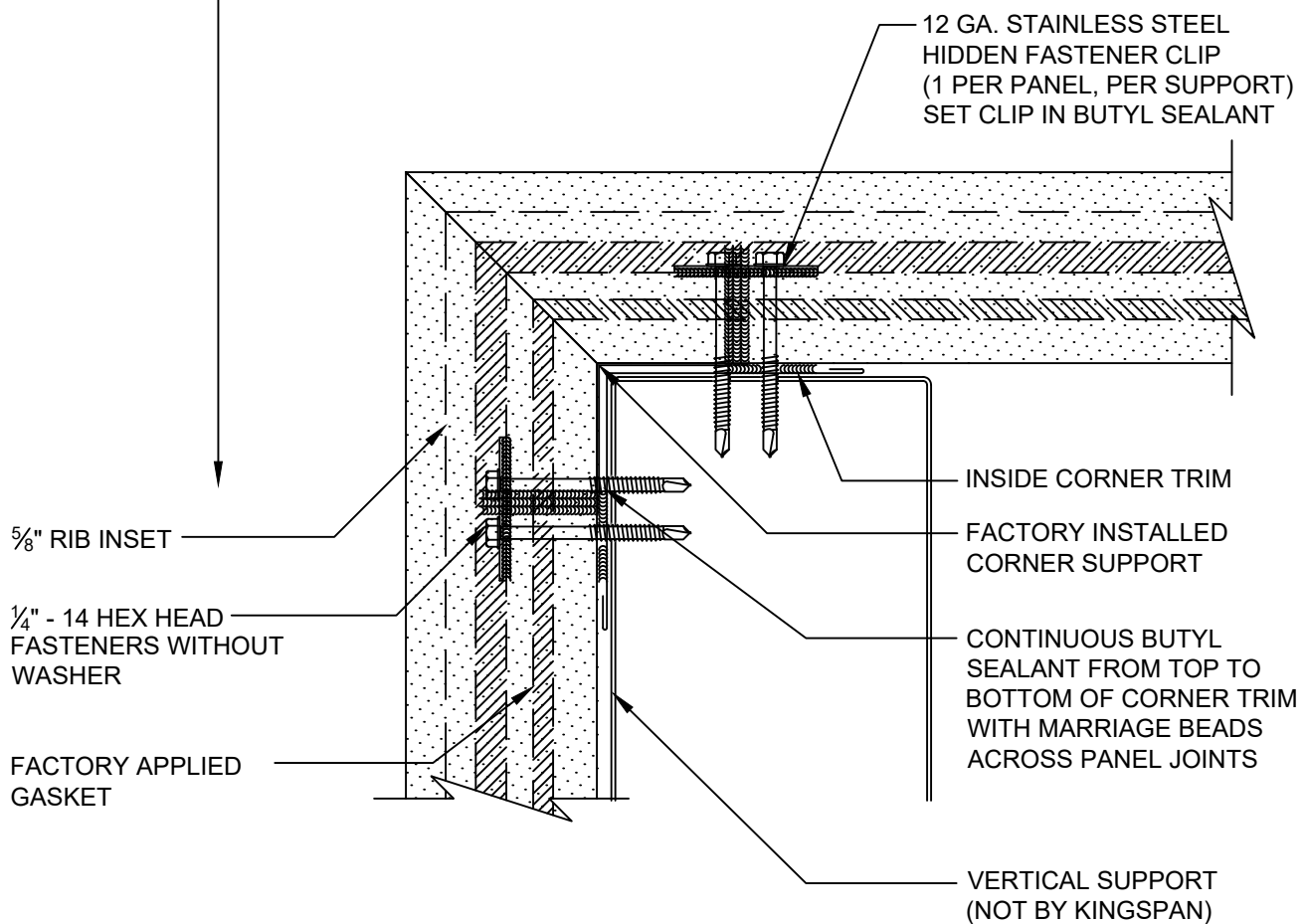
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MINIMUM LEG LENGTH - 1'-0"  
 MAXIMUM LEG LENGTH - 14'-0"  
 INTERIOR ANGLE - 90°



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OUTSIDE CORNER  
 FACTORY FOLDED

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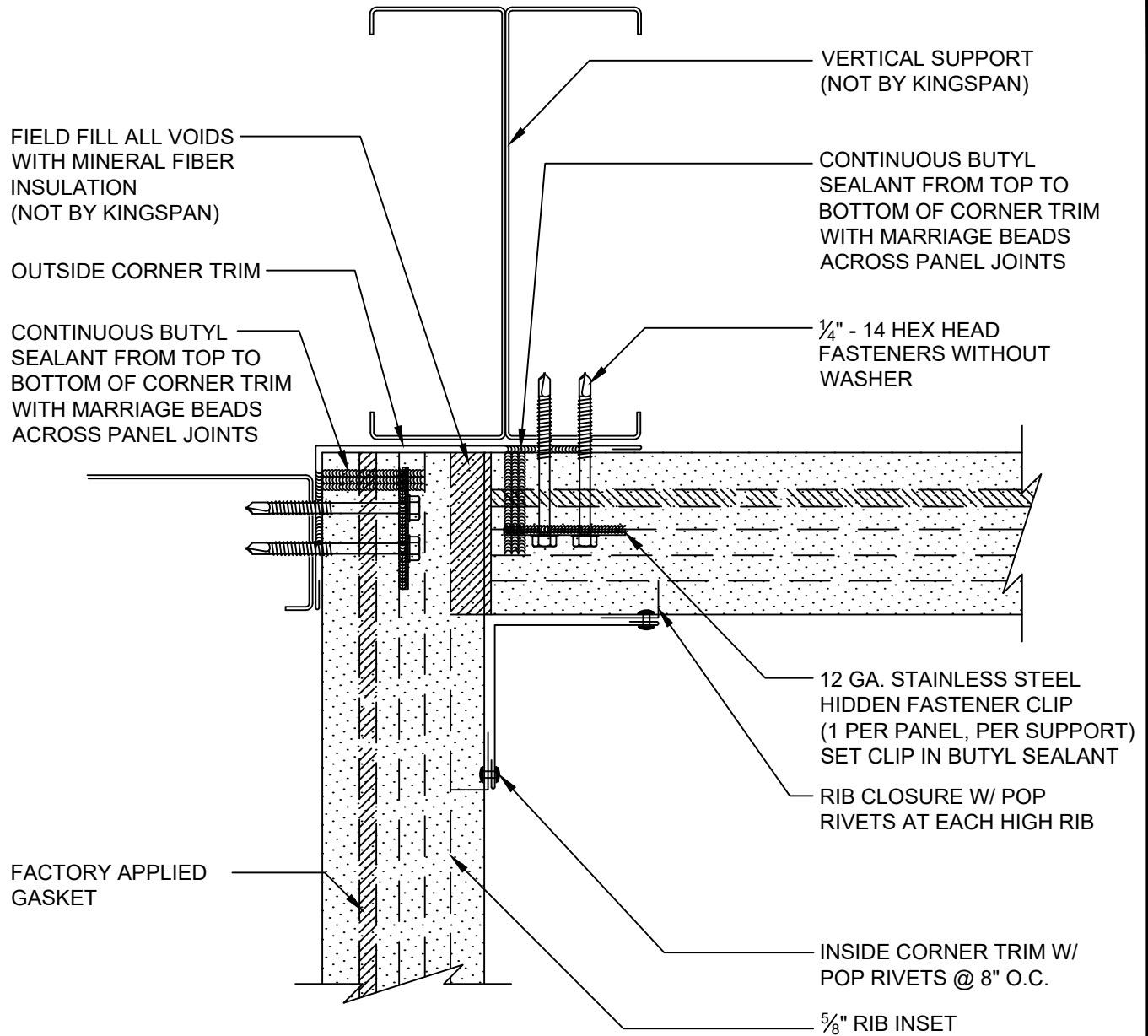
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INSIDE CORNER  
WITH TRIM

DETAIL #: CI-IC-01-VH

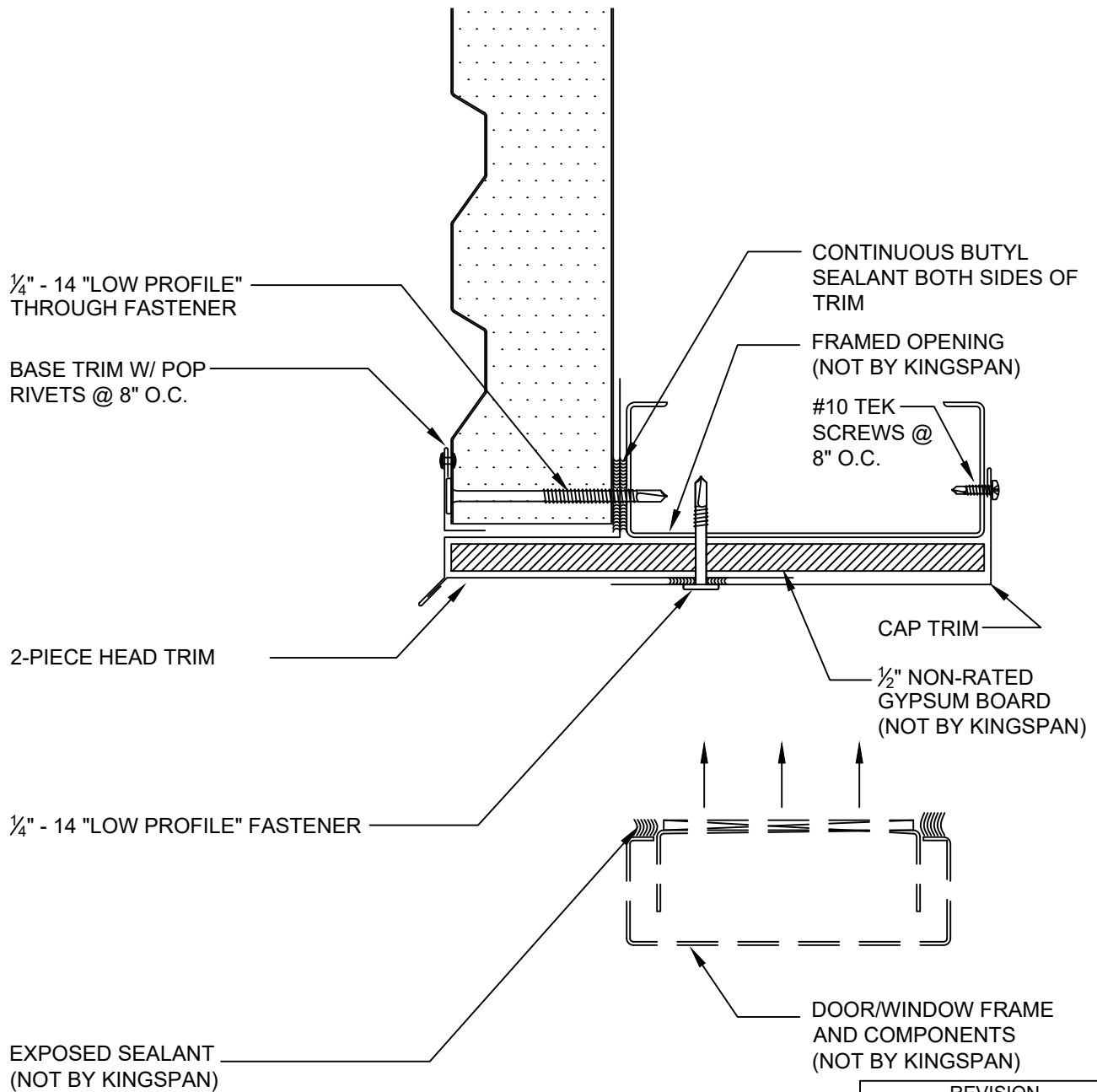
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## FRAMED OPENING HEAD

DETAIL #: CI-FO-01-VH

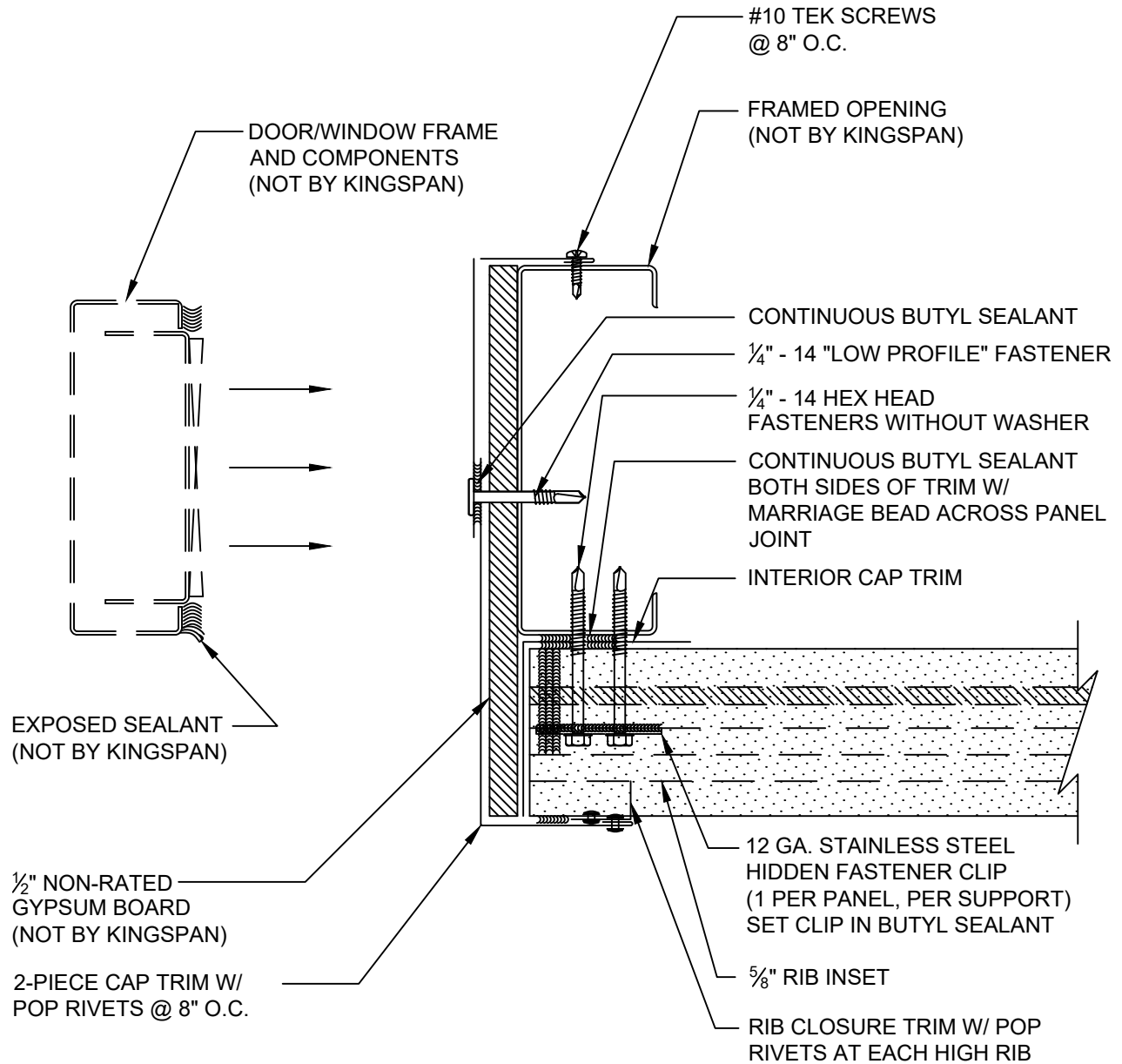
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FRAMED OPENING  
JAMB - 2 PIECE CAP TRIM

DETAIL #: CI-FO-03-VH

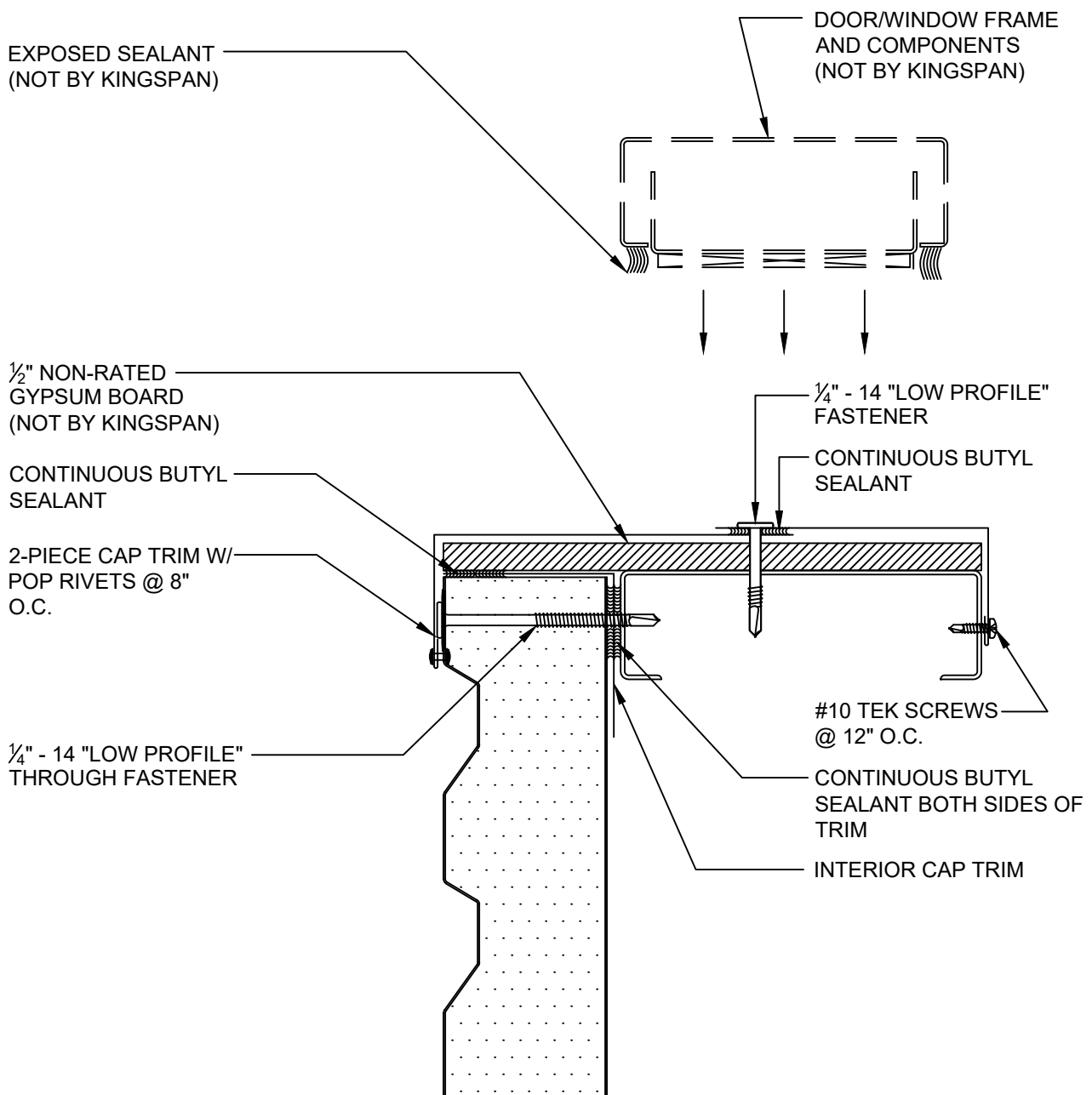
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FRAMED OPENING  
SILL @ RIB

DETAIL #: CI-FO-04-VH

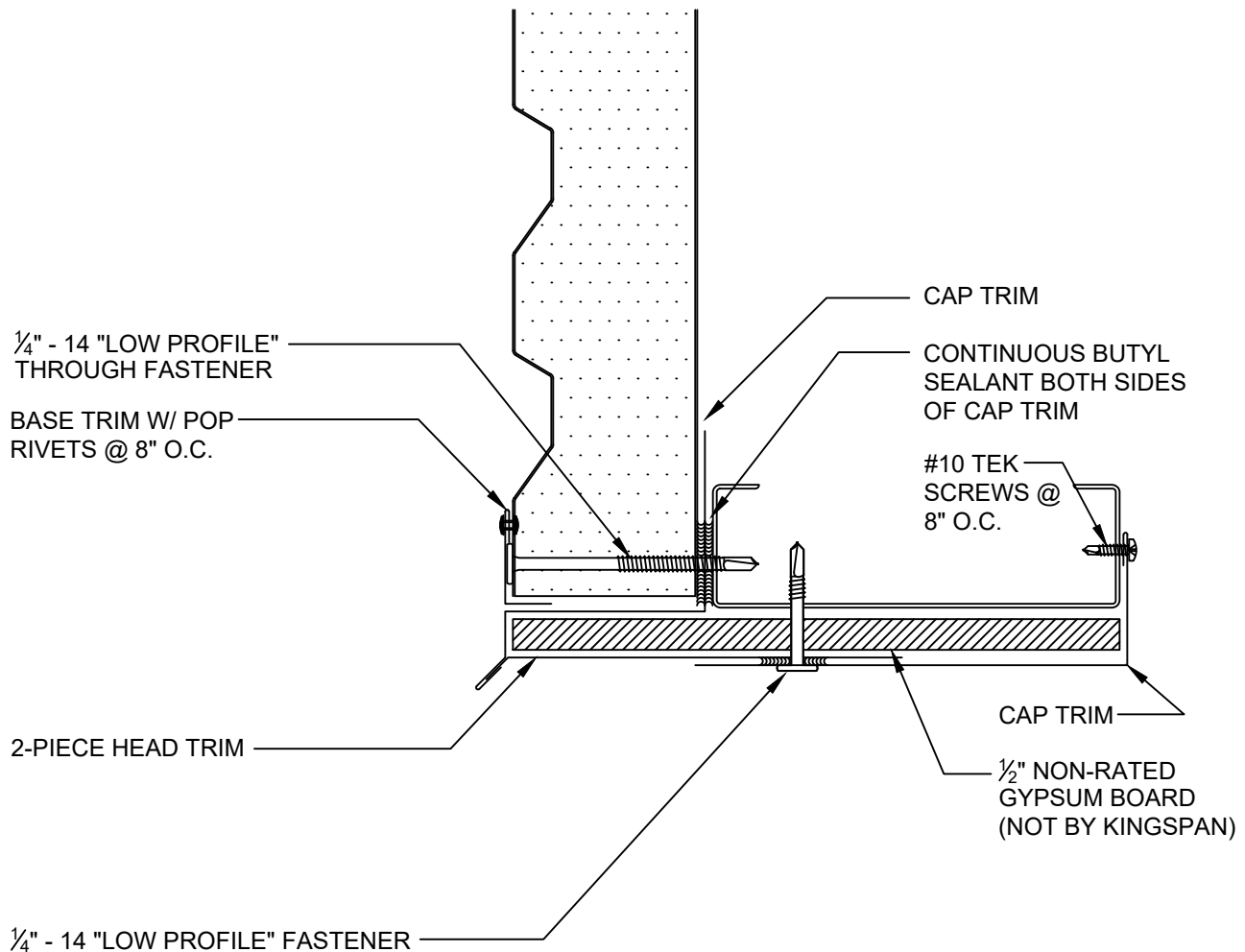
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OVERHEAD DOOR - HEAD  
2 PIECE CAP TRIM

DETAIL #: CI-FO-05-VH

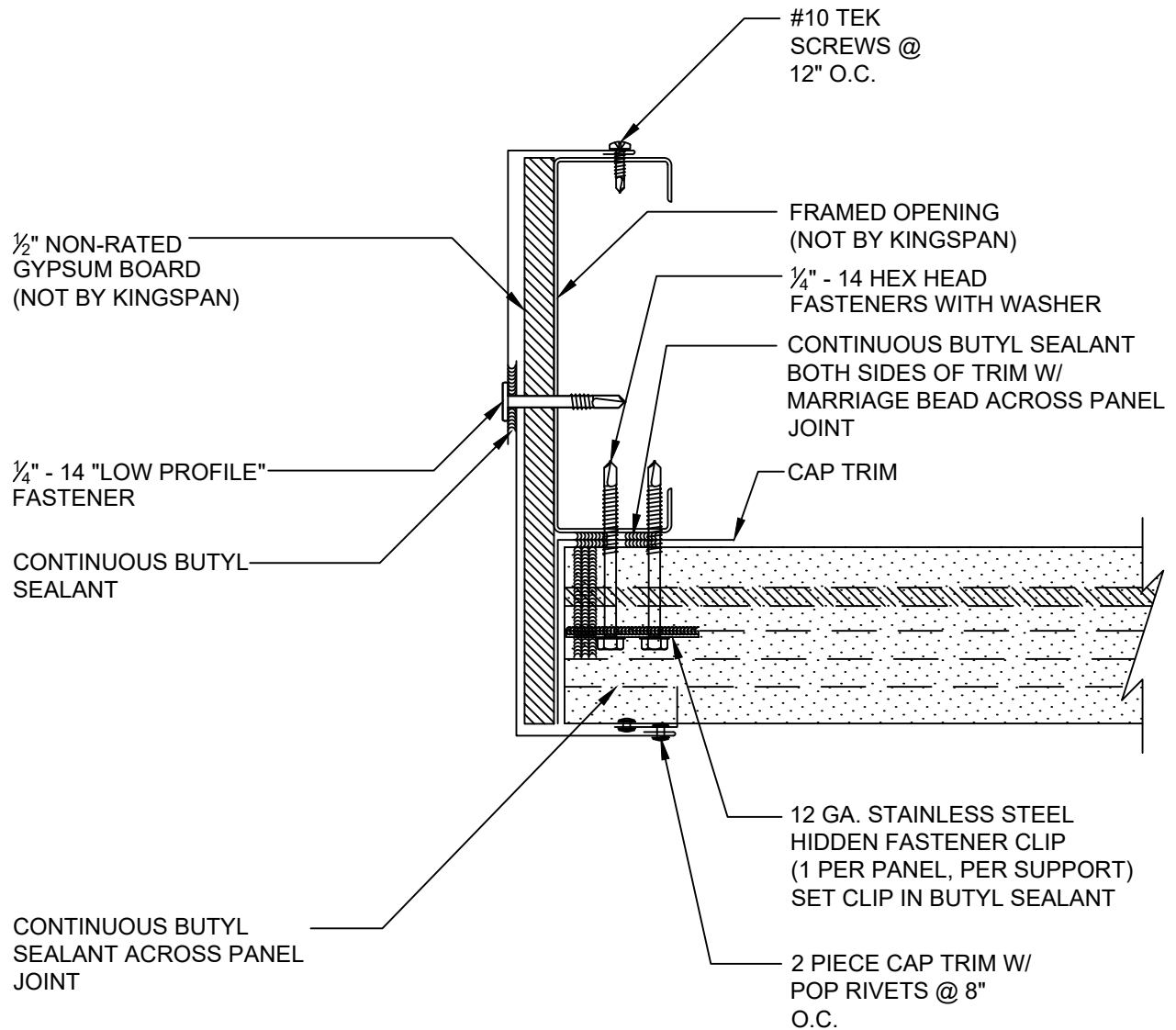
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OVERHEAD DOOR - JAMB  
2-PIECE CAP TRIM

DETAIL #: CI-FO-06-VH

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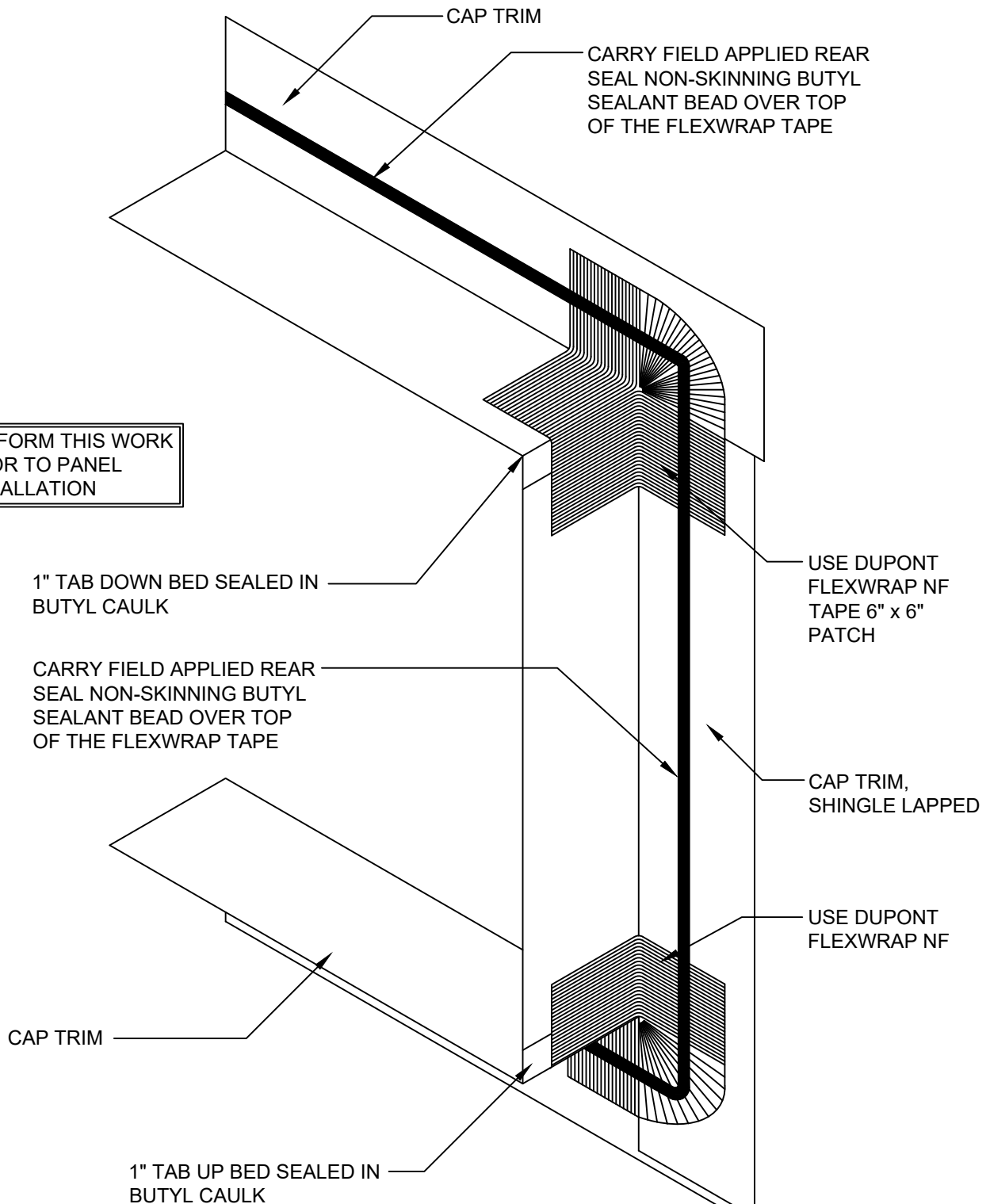
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PERFORM THIS WORK  
PRIOR TO PANEL  
INSTALLATION



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FRAMED OPENING - TRIM  
INSTALLATION

DETAIL #: CI-FO-07-VH

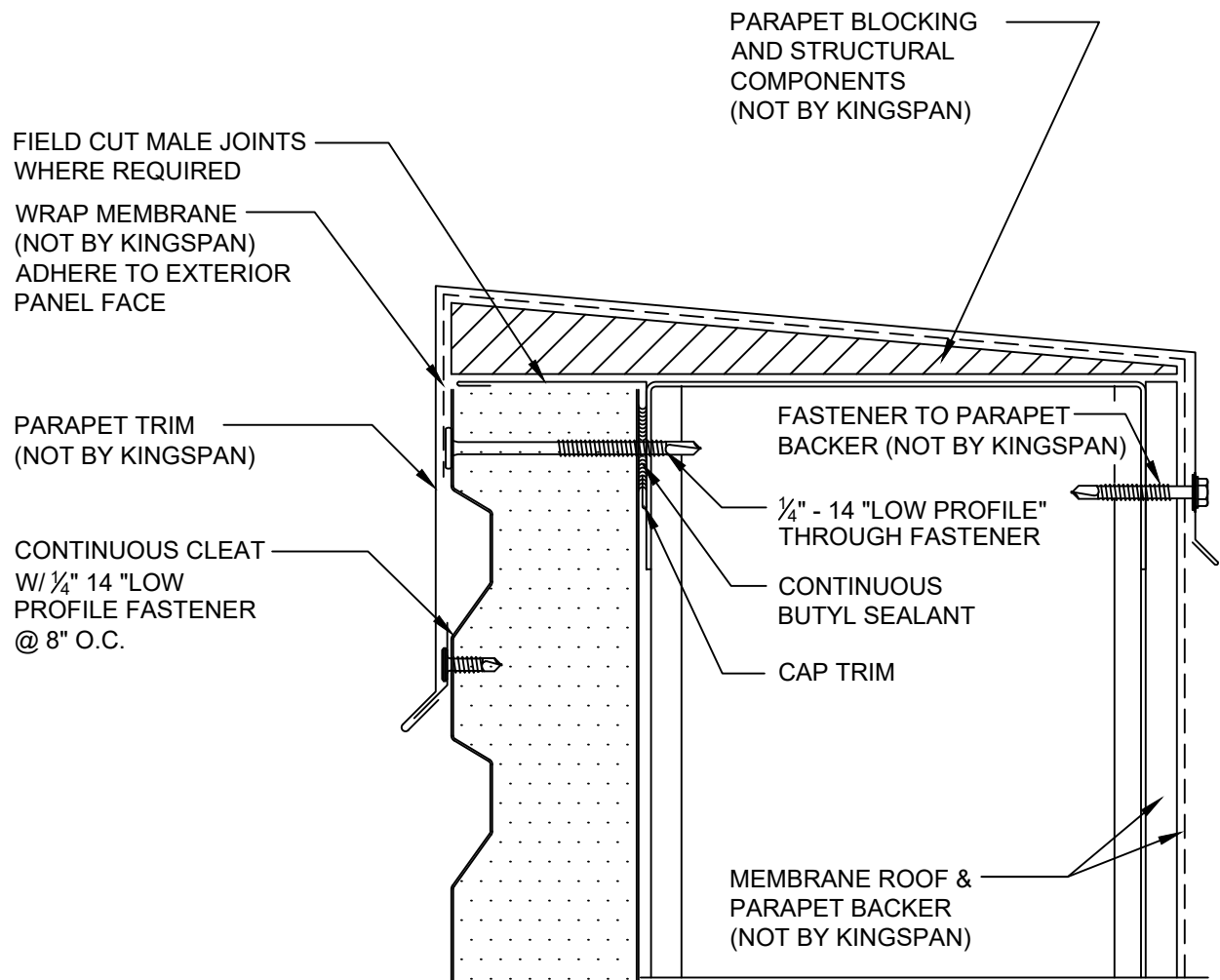
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PARAPET - FIELD CUT  
PANEL -  
FLUSH TRIM

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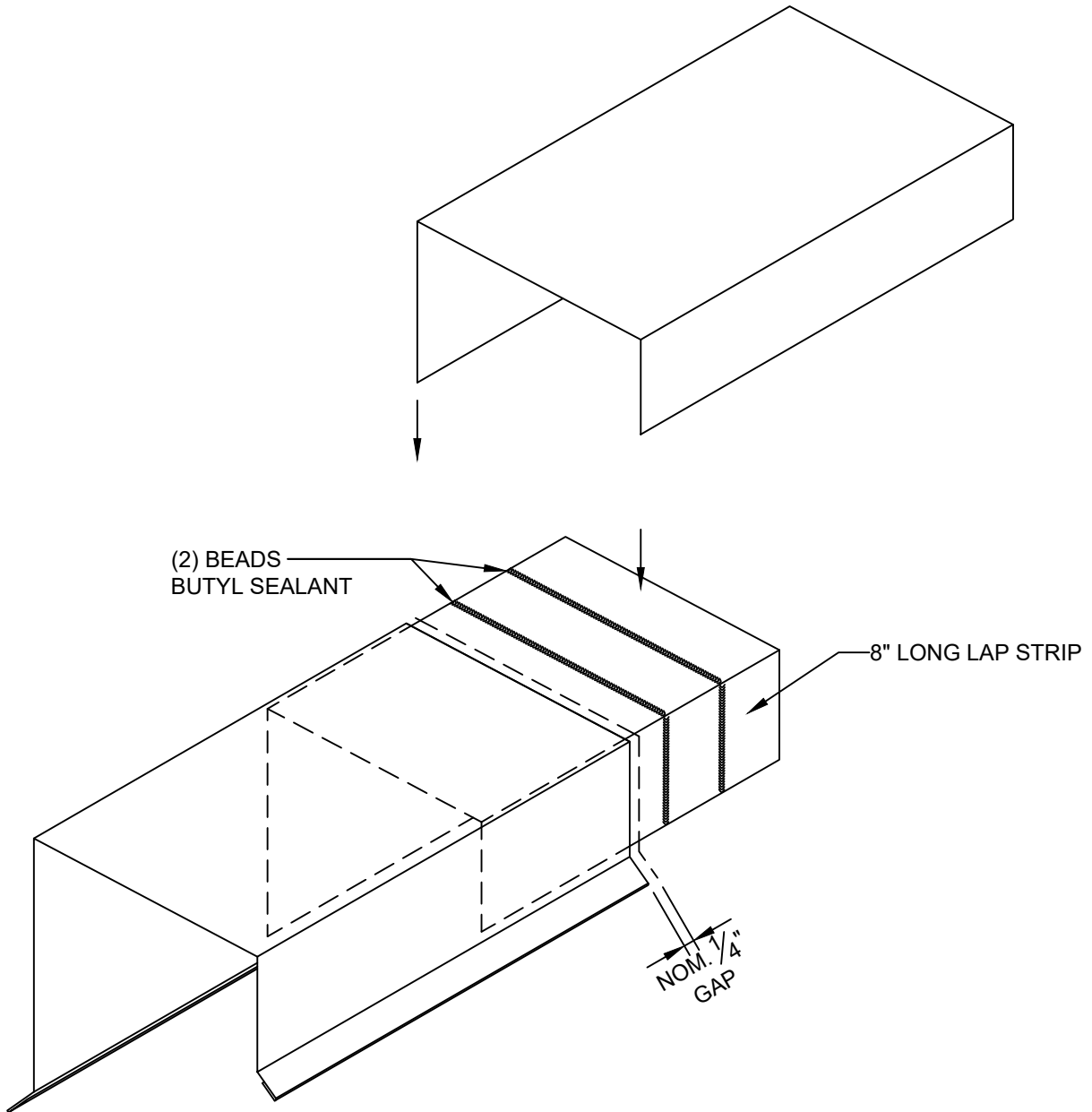
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PARAPET - LAP STRIP  
INSTALLATION

DETAIL #: CI-PR-02-VH

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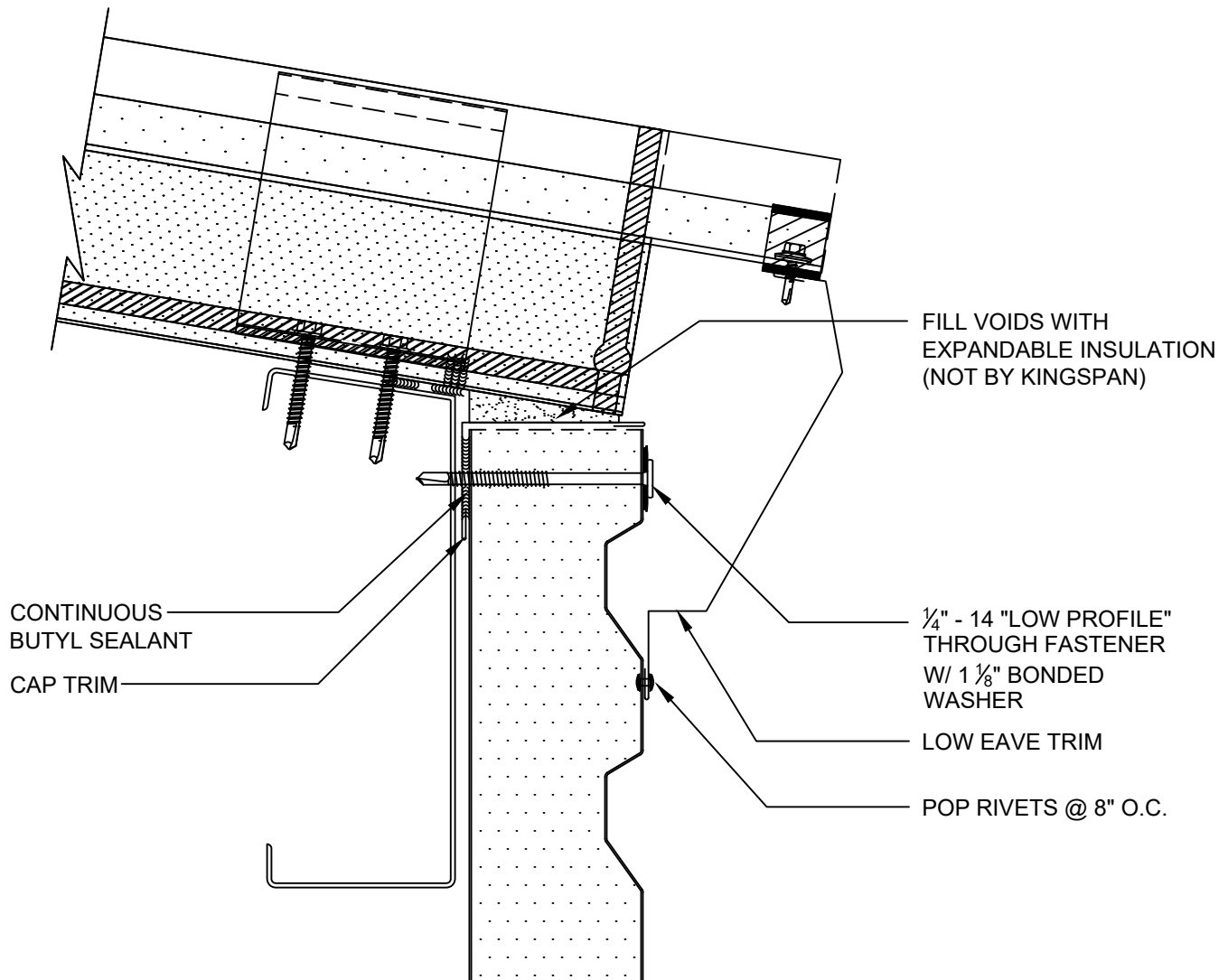
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SEE ROOF DETAILS FOR ROOF NOTES



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WALL TO ROOF - LOW  
EAVE NO GUTTER

DETAIL #: CI-WR-01-VH

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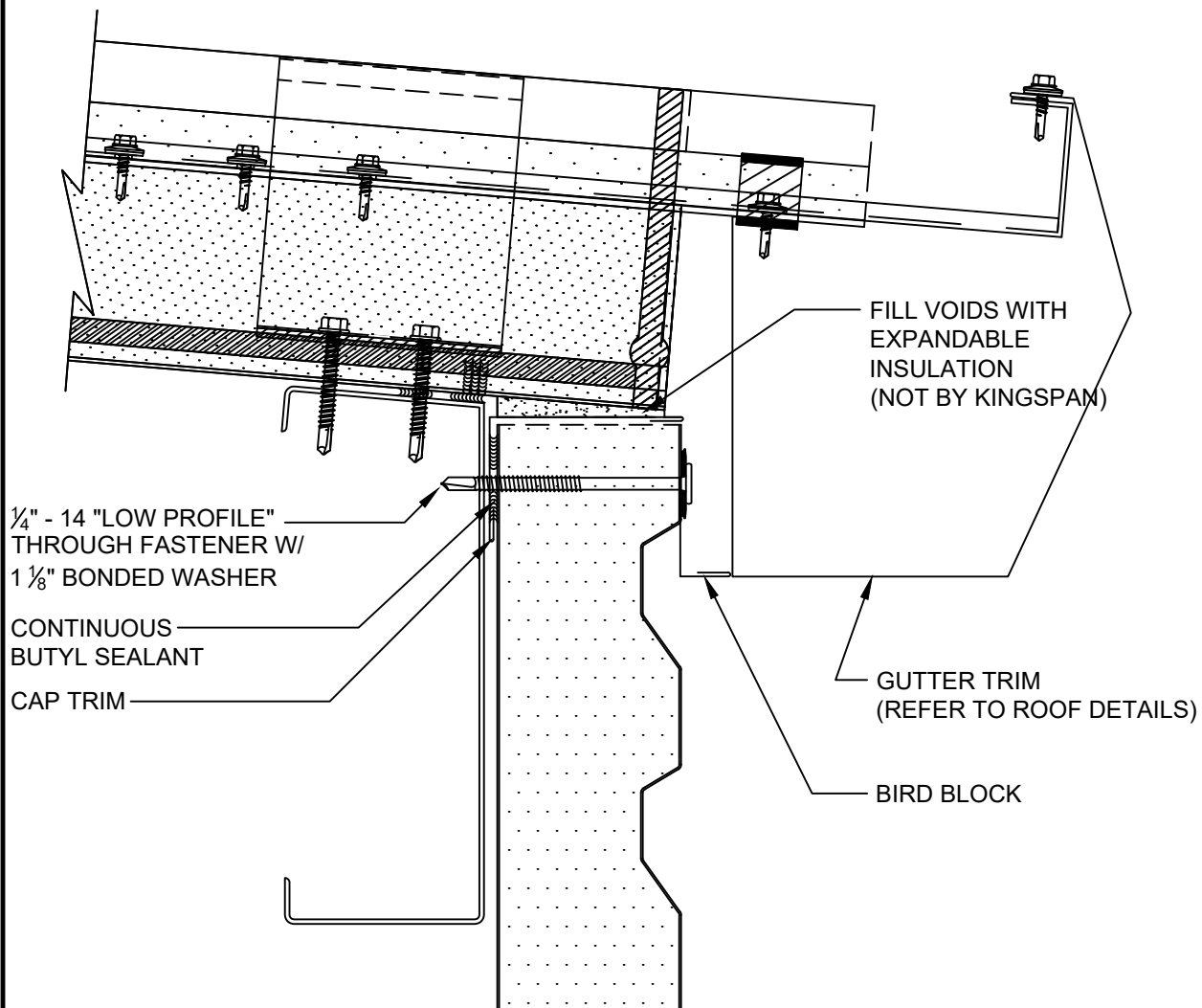
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SEE ROOF DETAILS FOR ROOF NOTES



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WALL TO ROOF - LOW  
EAVE W/ GUTTER

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# VALE - HORIZONTAL INSTALL

SEE ROOF DETAILS FOR ROOF NOTES

HIGH EAVE TRIM

FILL VOIDS WITH  
EXPANDABLE  
INSULATION  
(NOT BY  
KINGSPAN)

POP RIVETS @ 8" O.C.

$\frac{1}{4}$ " - 14 "LOW PROFILE"  
THROUGH FASTENER W/  
1  $\frac{1}{8}$ " BONDED WASHER

CONTINUOUS  
BUTYL SEALANT

CAP TRIM

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WALL TO ROOF - HIGH  
EAVE

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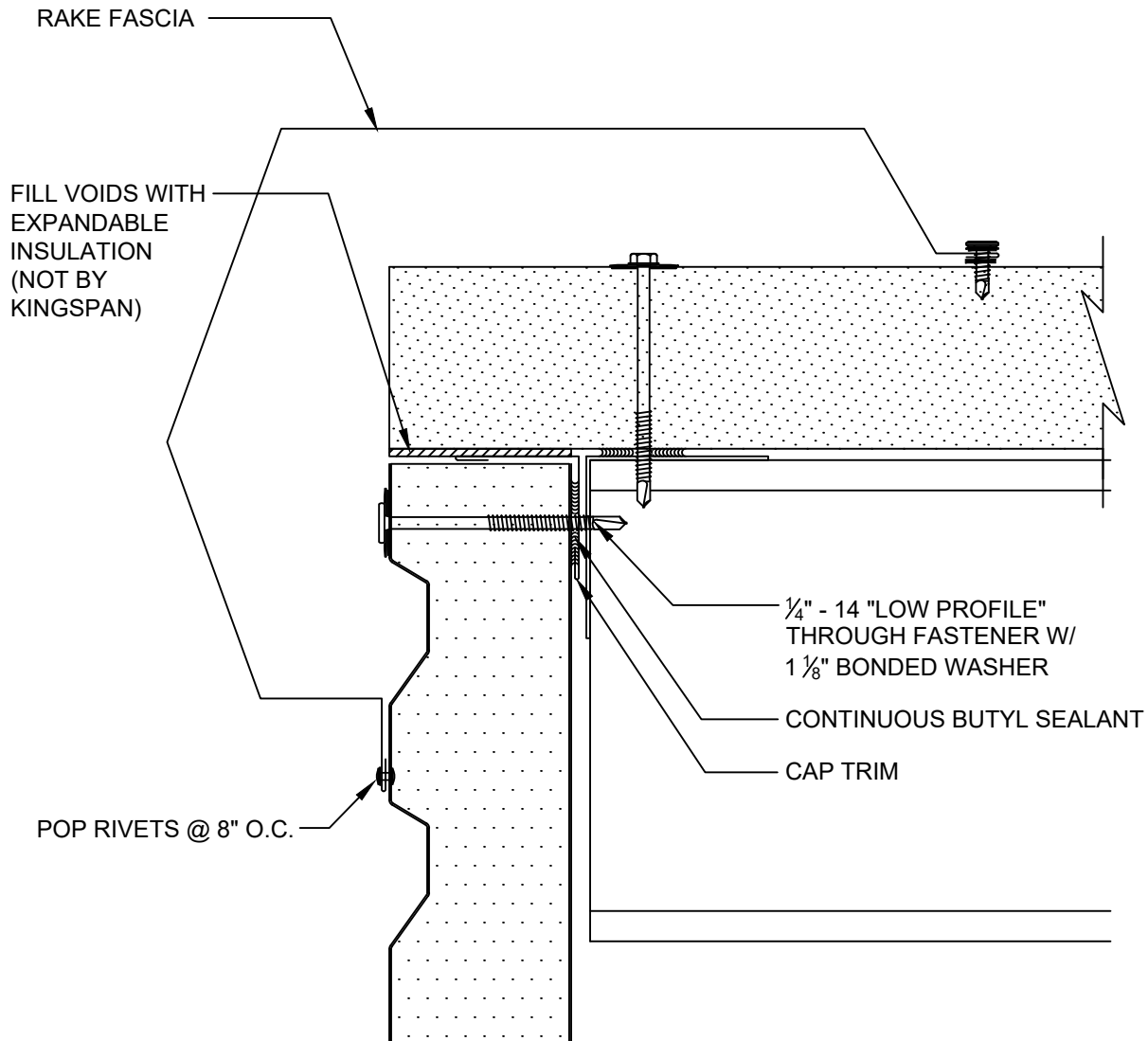
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# VALE - HORIZONTAL INSTALL

SEE ROOF DETAILS FOR ROOF NOTES



| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

WALL TO ROOF - RAKE

DETAIL #: CI-WR-04-VH

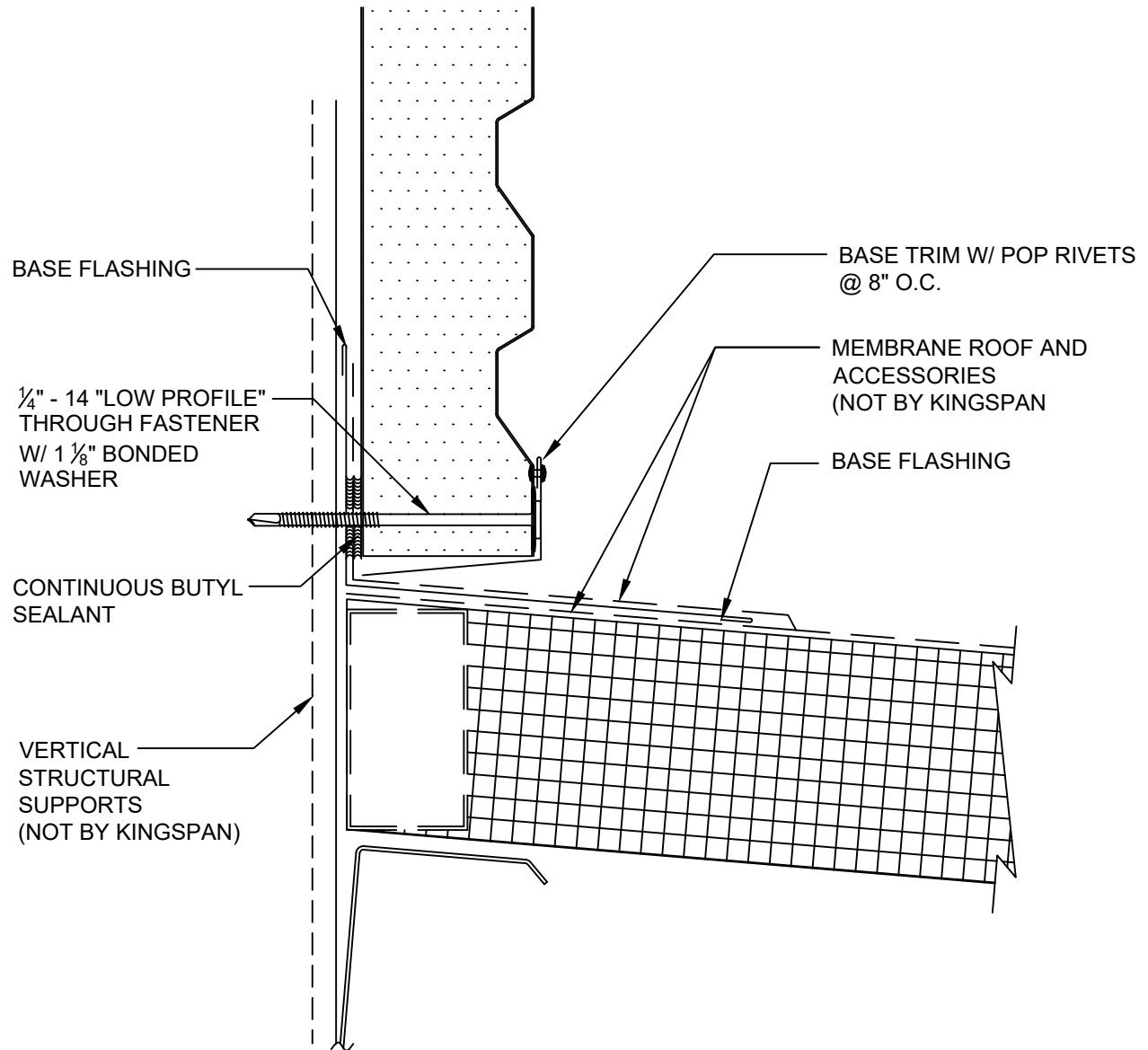
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



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WALL ABOVE TO BUILT UP  
ROOF / CANOPY

DETAIL #: CI-WR-05-VH

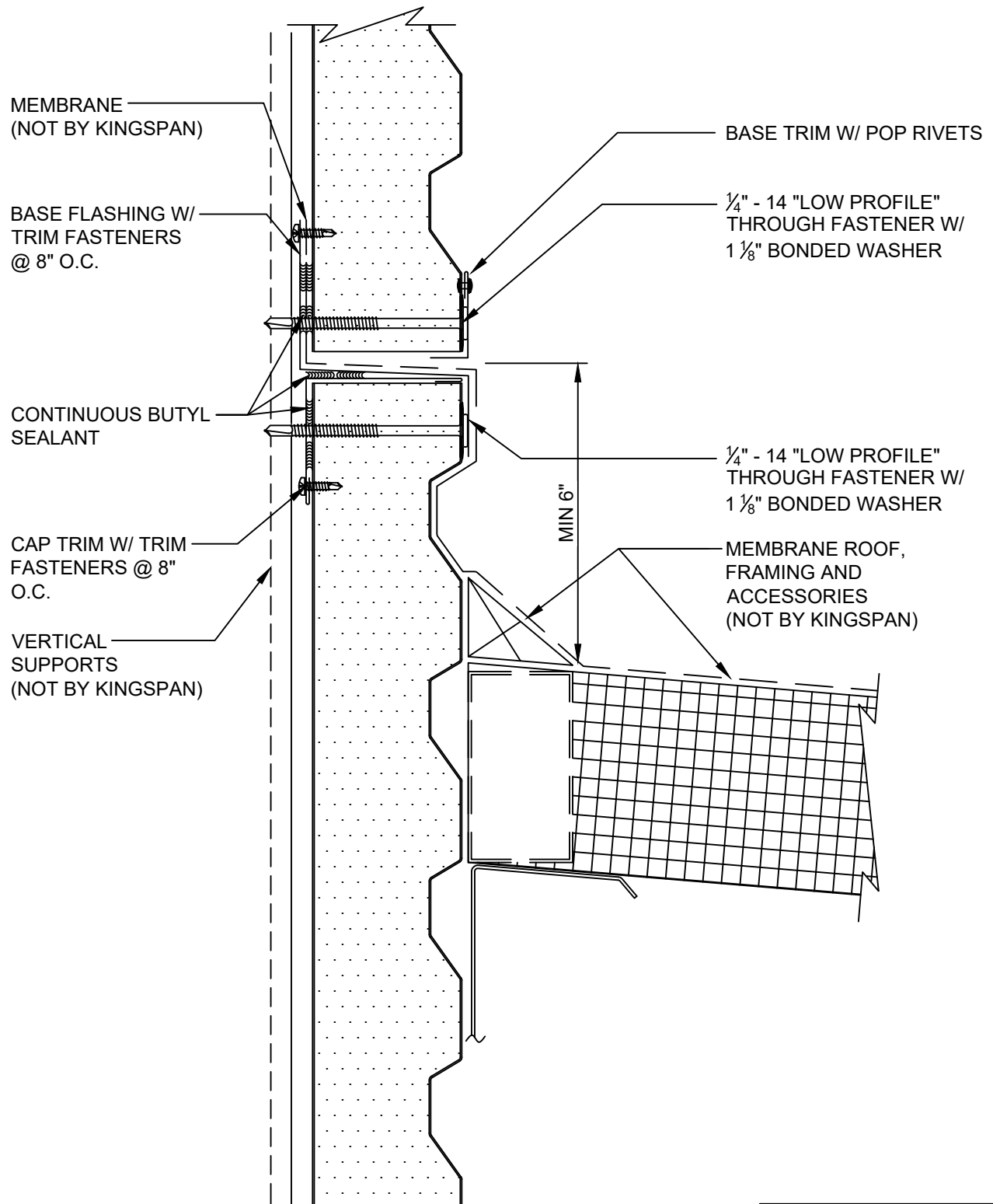
RELEASE: 2023

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# VALE - HORIZONTAL INSTALL



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CONTINUOUS WALL TO  
BUILT UP ROOF / CANOPY

DETAIL #: CI-WR-06-VH

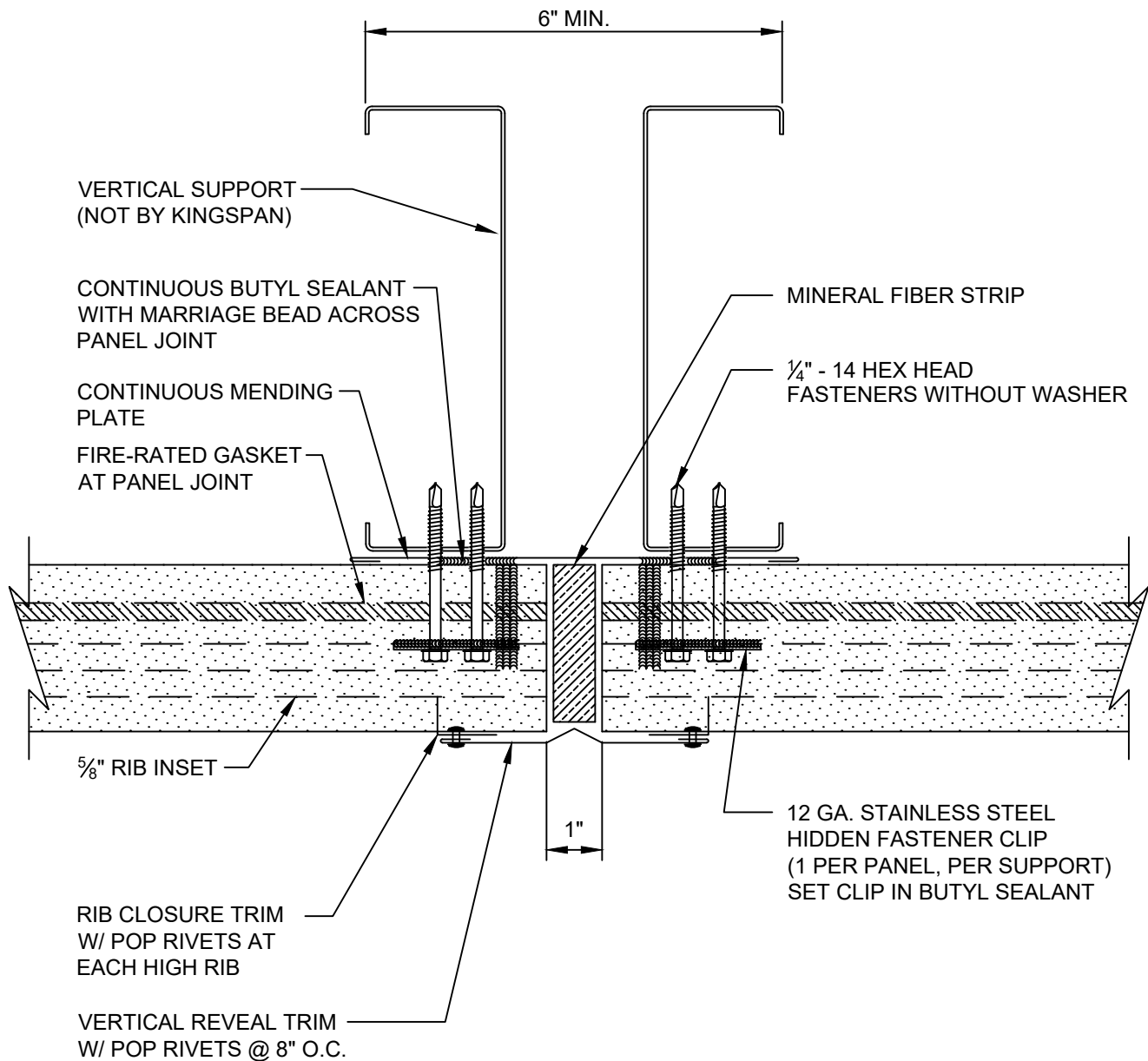
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



NOTE: SEE INSTALLATION  
SEQUENCE AT BASE CONDITION  
CI-VJ-07 THROUGH CI-VJ-13

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VERTICAL JOINT W/ 1-PC  
TOP HAT TRIM

DETAIL #: CI-VJ-01-VH

RELEASE: 2023

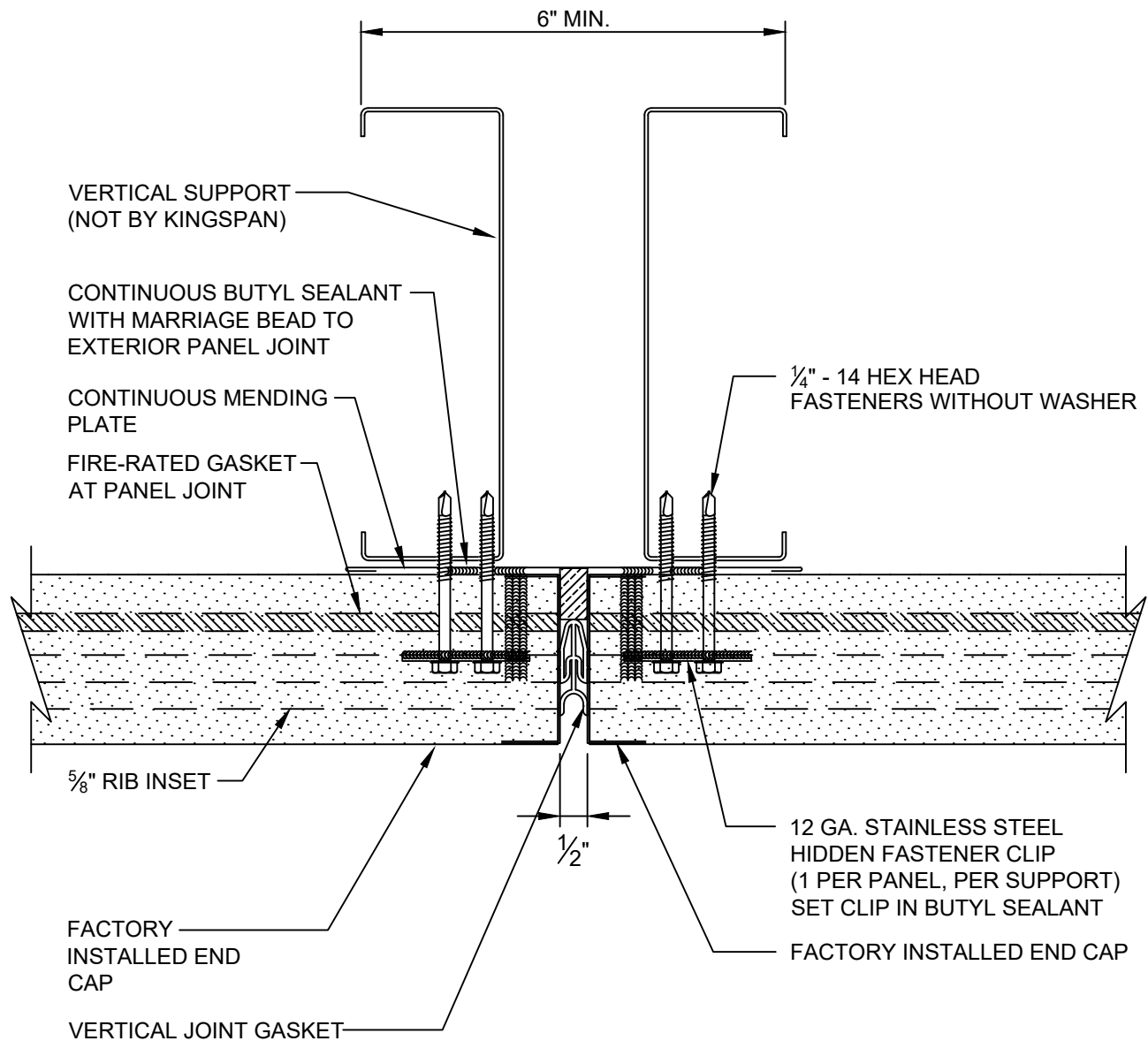
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# VALE - HORIZONTAL INSTALL



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| REVISION # | DATE     |
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VERTICAL JOINT W/ END  
CAP

DETAIL #: CI-VJ-02-VH

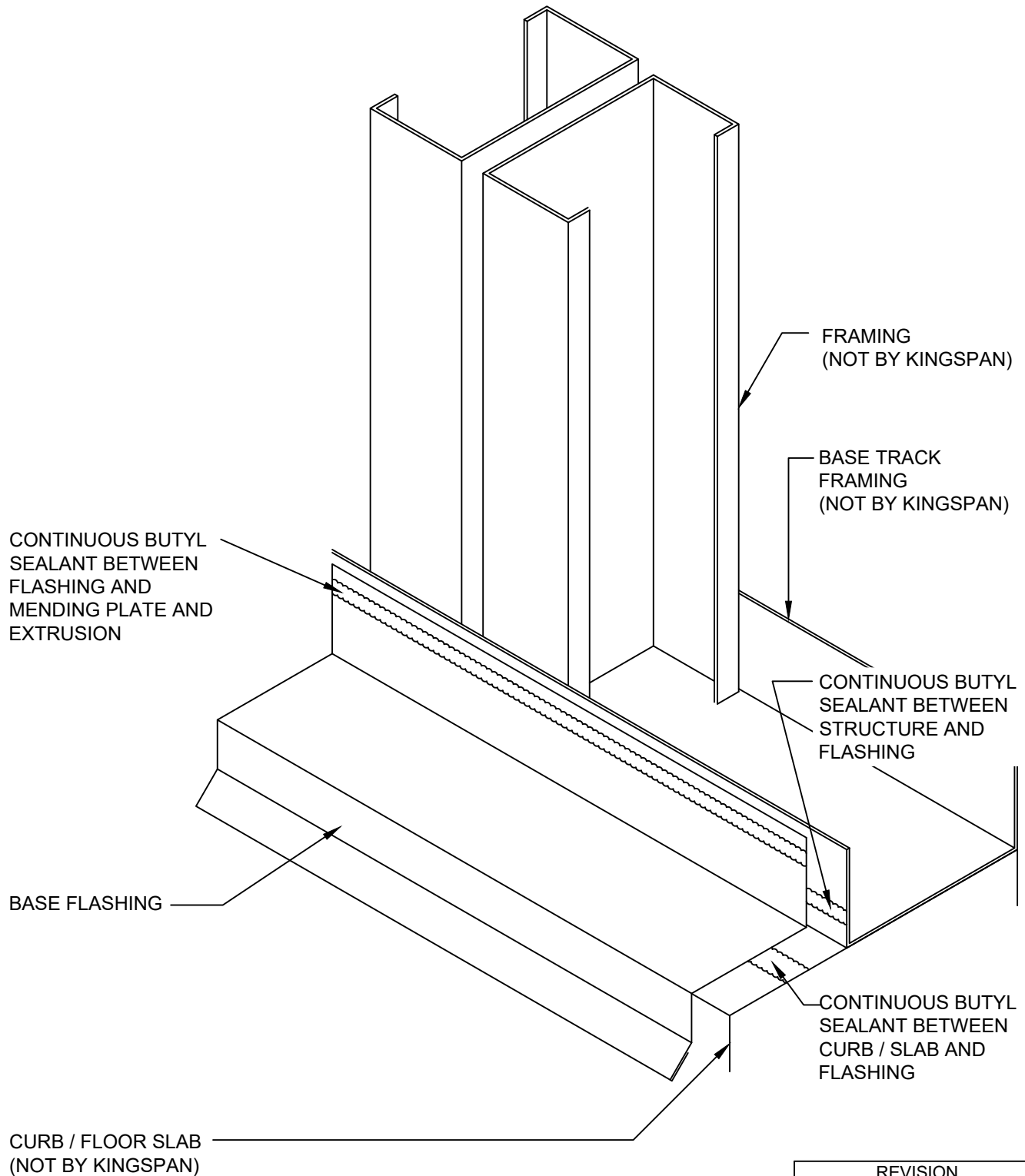
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



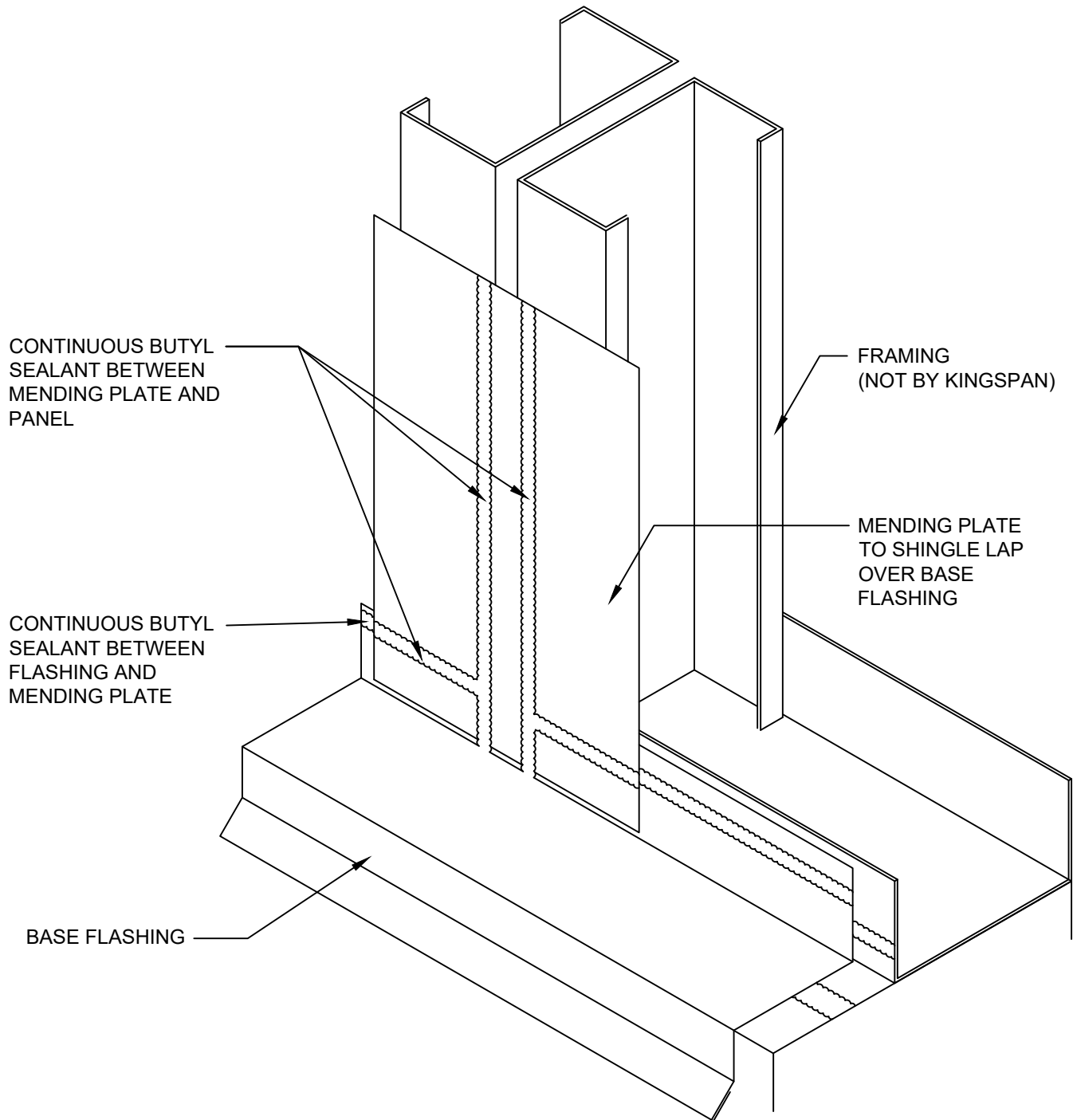
| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

VERTICAL JOINT  
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-03-VH  
RELEASE: 2023  
REGION: NORTH AMERICA  
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# VALE - HORIZONTAL INSTALL



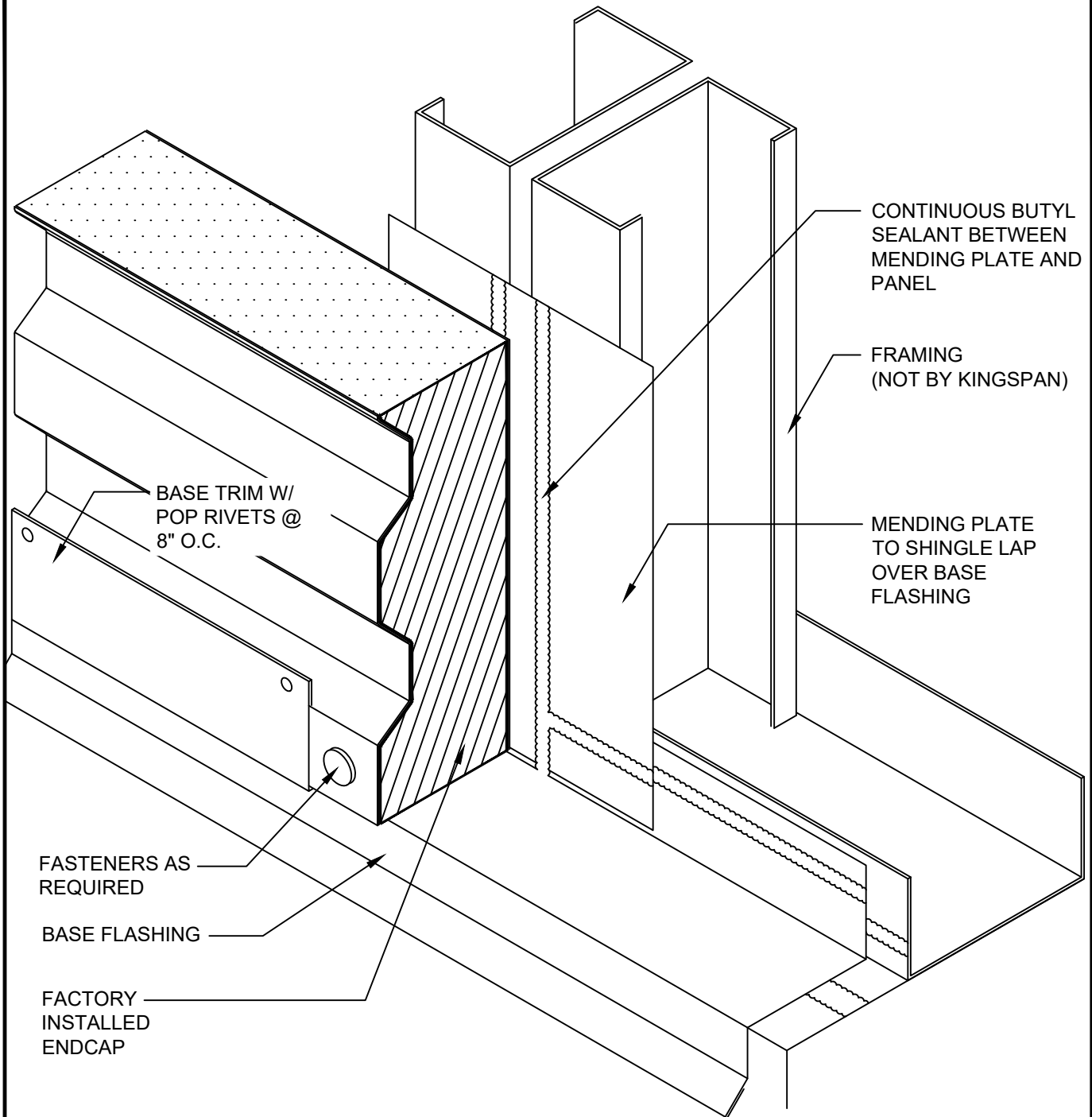
| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

VERTICAL JOINT  
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-04-VH  
RELEASE: 2023  
REGION: NORTH AMERICA  
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# VALE - HORIZONTAL INSTALL



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| REVISION # | DATE     |
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VERTICAL JOINT  
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-05-VH

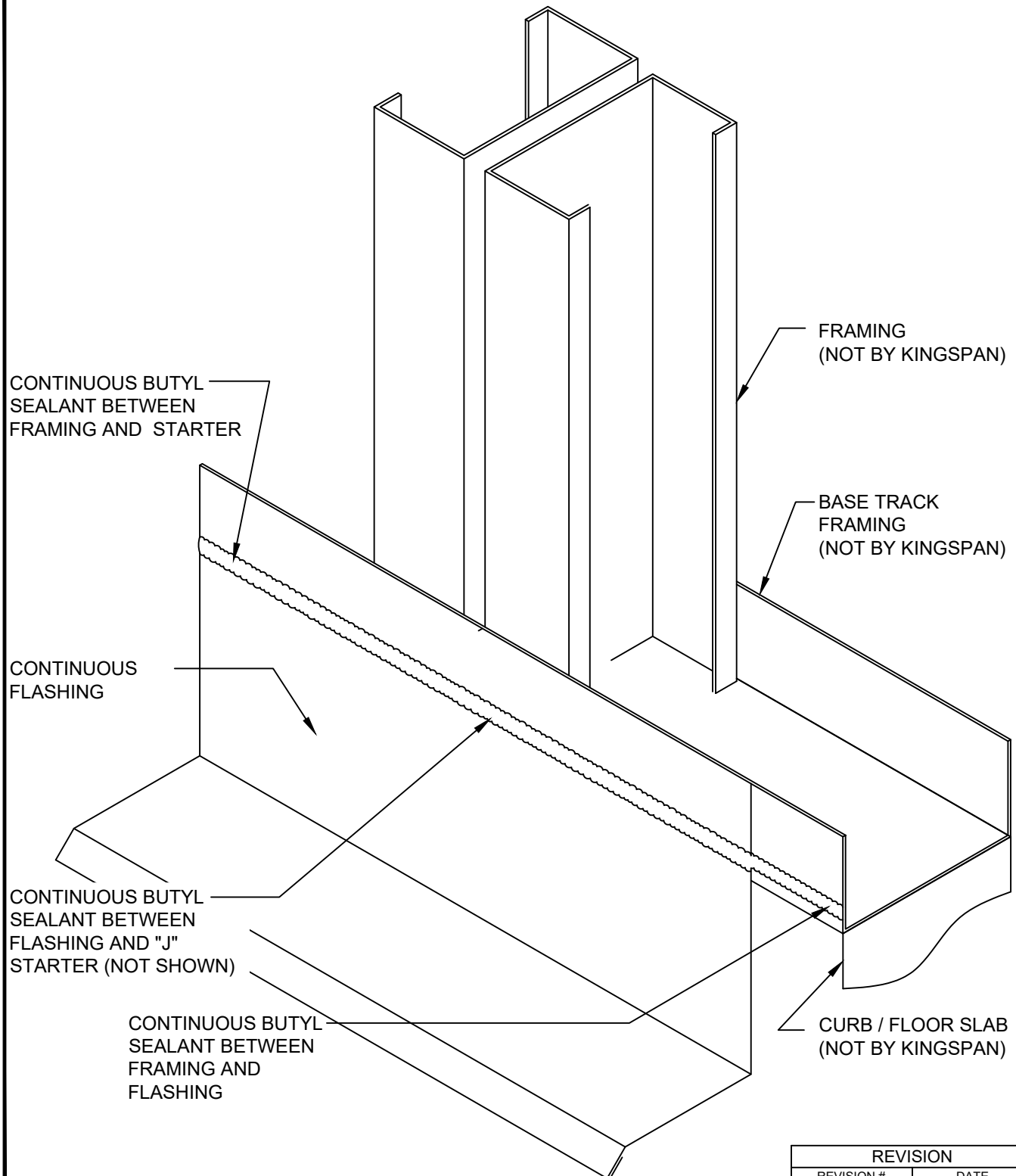
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
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VERTICAL JOINT  
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-06-VH

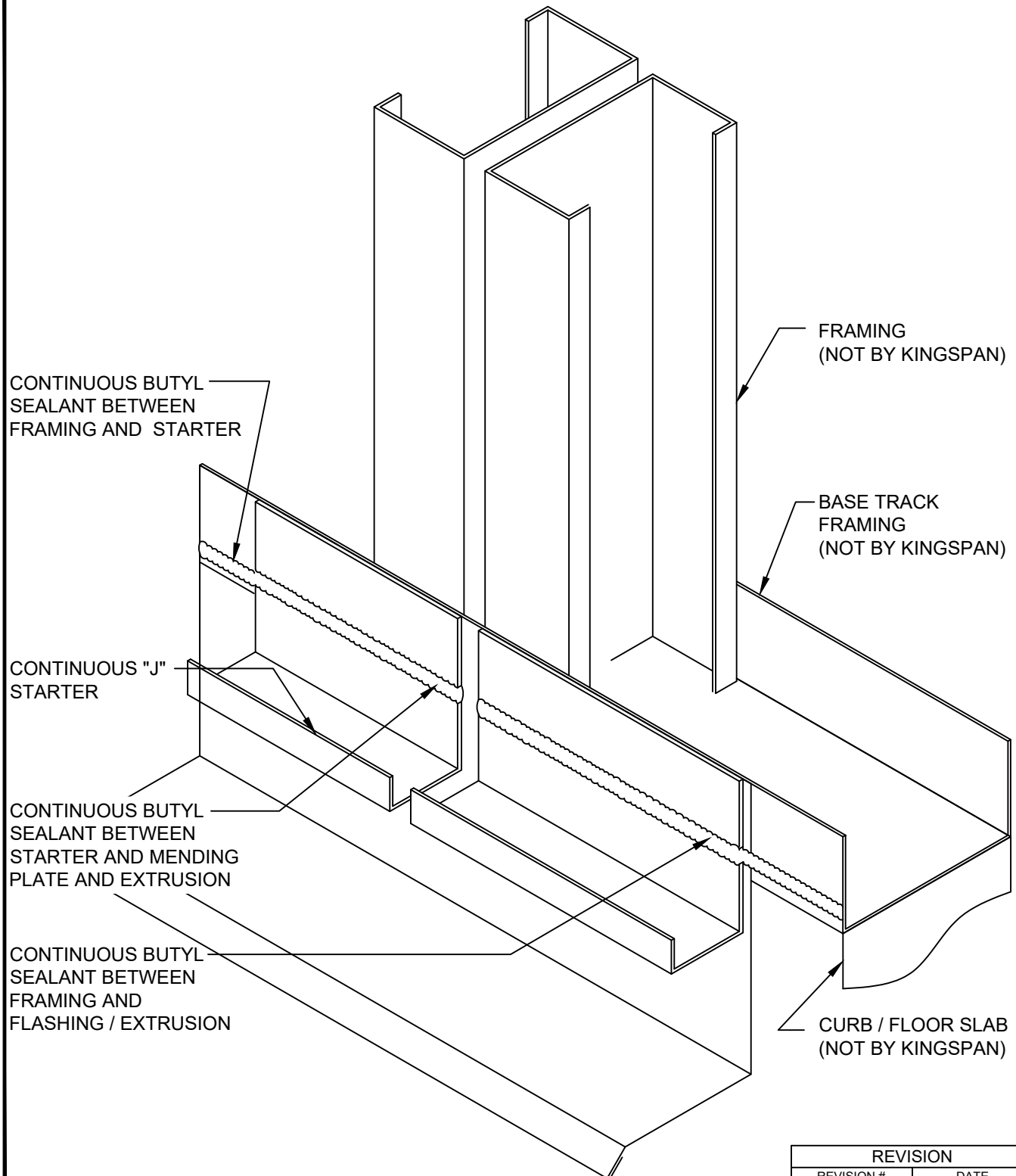
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# VALE - HORIZONTAL INSTALL



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| REVISION # | DATE     |
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VERTICAL JOINT  
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-07-VH

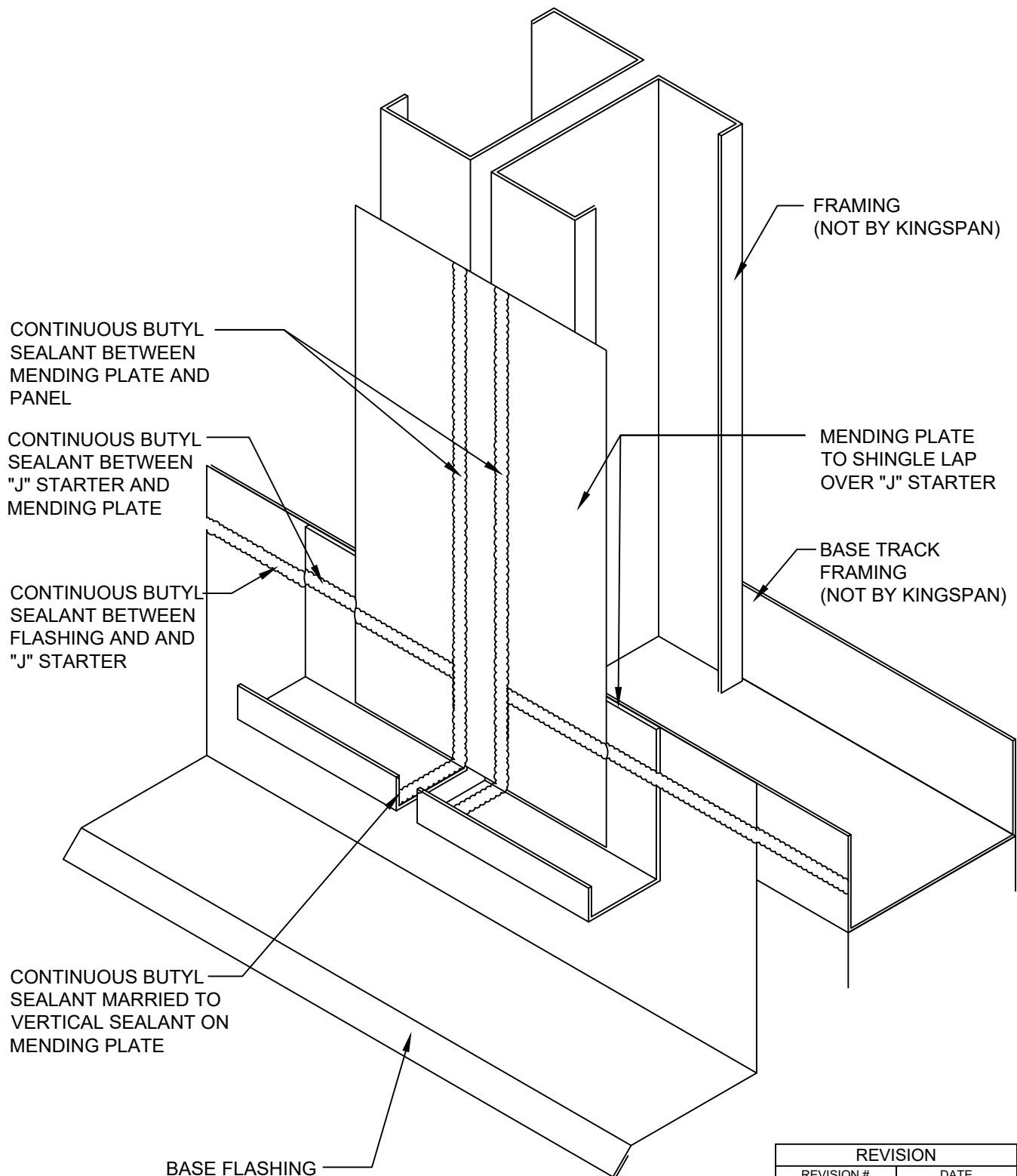
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



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| REVISION # | DATE     |
| 0          | 05/18/23 |

VERTICAL JOINT W/ "J"  
STARTER  
INSTALLATION

DETAIL #: CI-VJ-08-VH

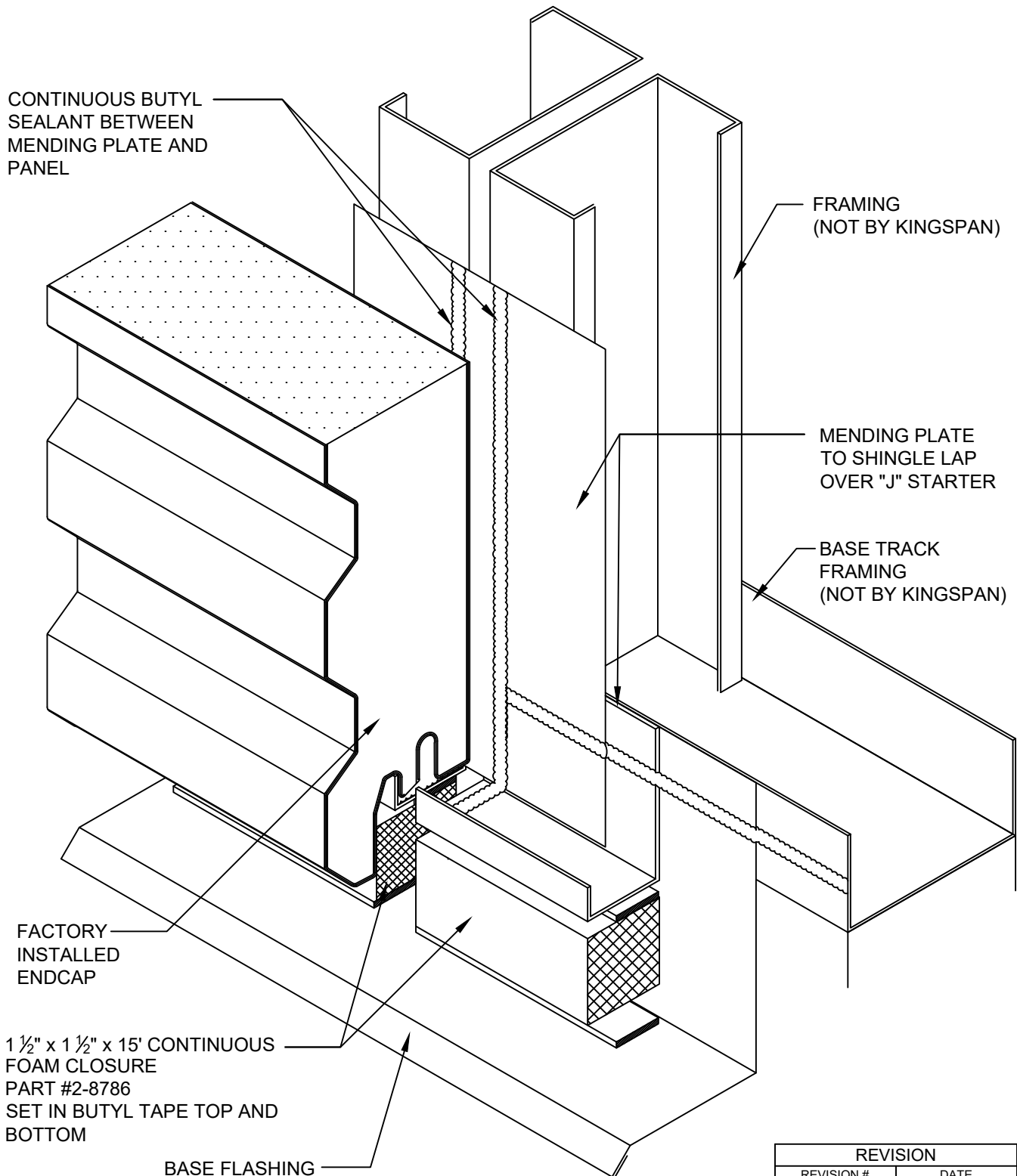
RELEASE: 2023

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# VALE - HORIZONTAL INSTALL



| REVISION   |          |
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| 0          | 05/18/23 |

VERTICAL JOINT W/ "J"  
STARTER  
INSTALLATION

DETAIL #: CI-VJ-09-VH

RELEASE: 2023

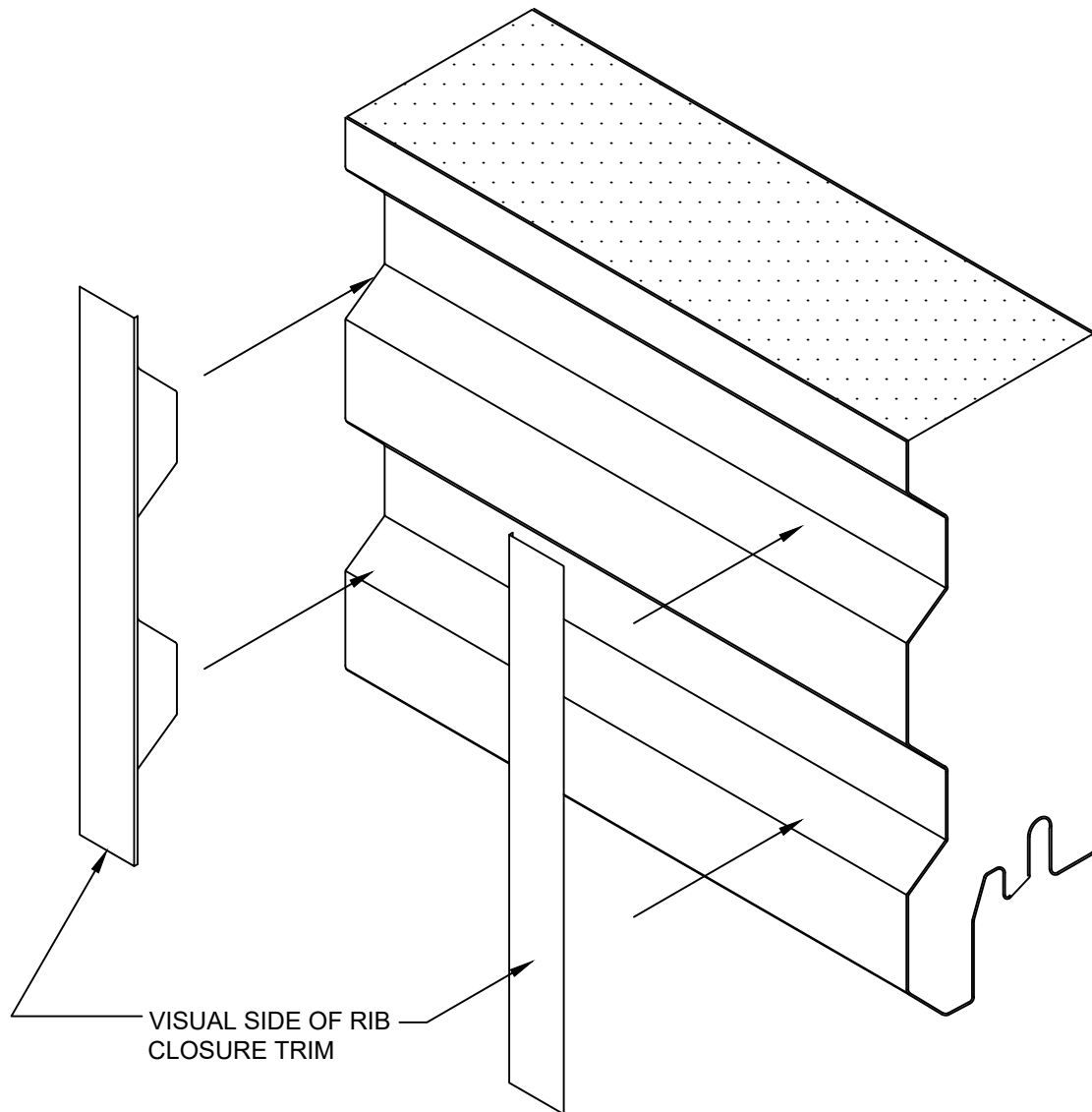
REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



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| REVISION # | DATE     |
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METAL CLOSURE  
INSTALLATION

DETAIL #: CI-CL-01-VH

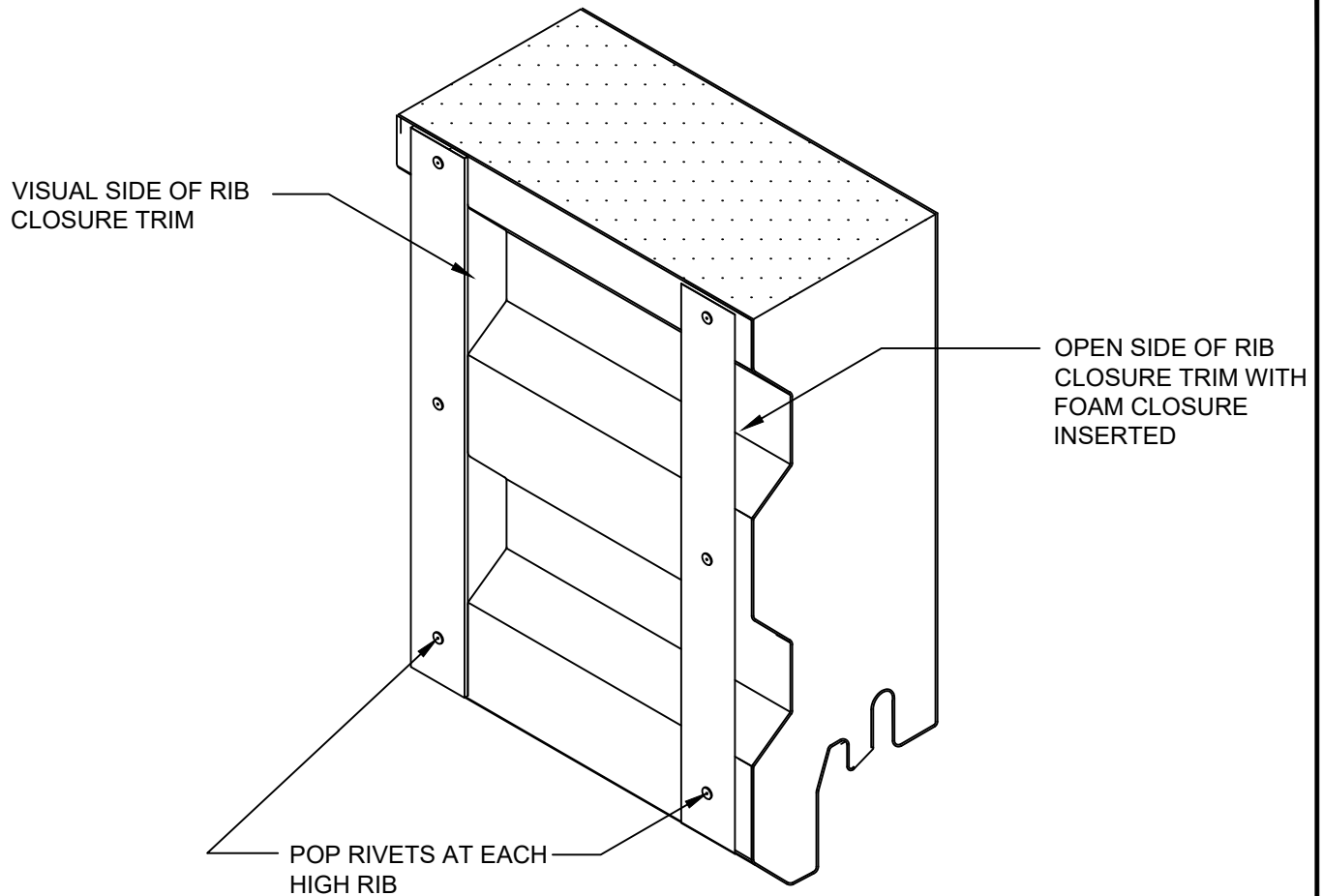
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

METAL CLOSURE  
INSTALLATION

DETAIL #: CI-CL-03-VH

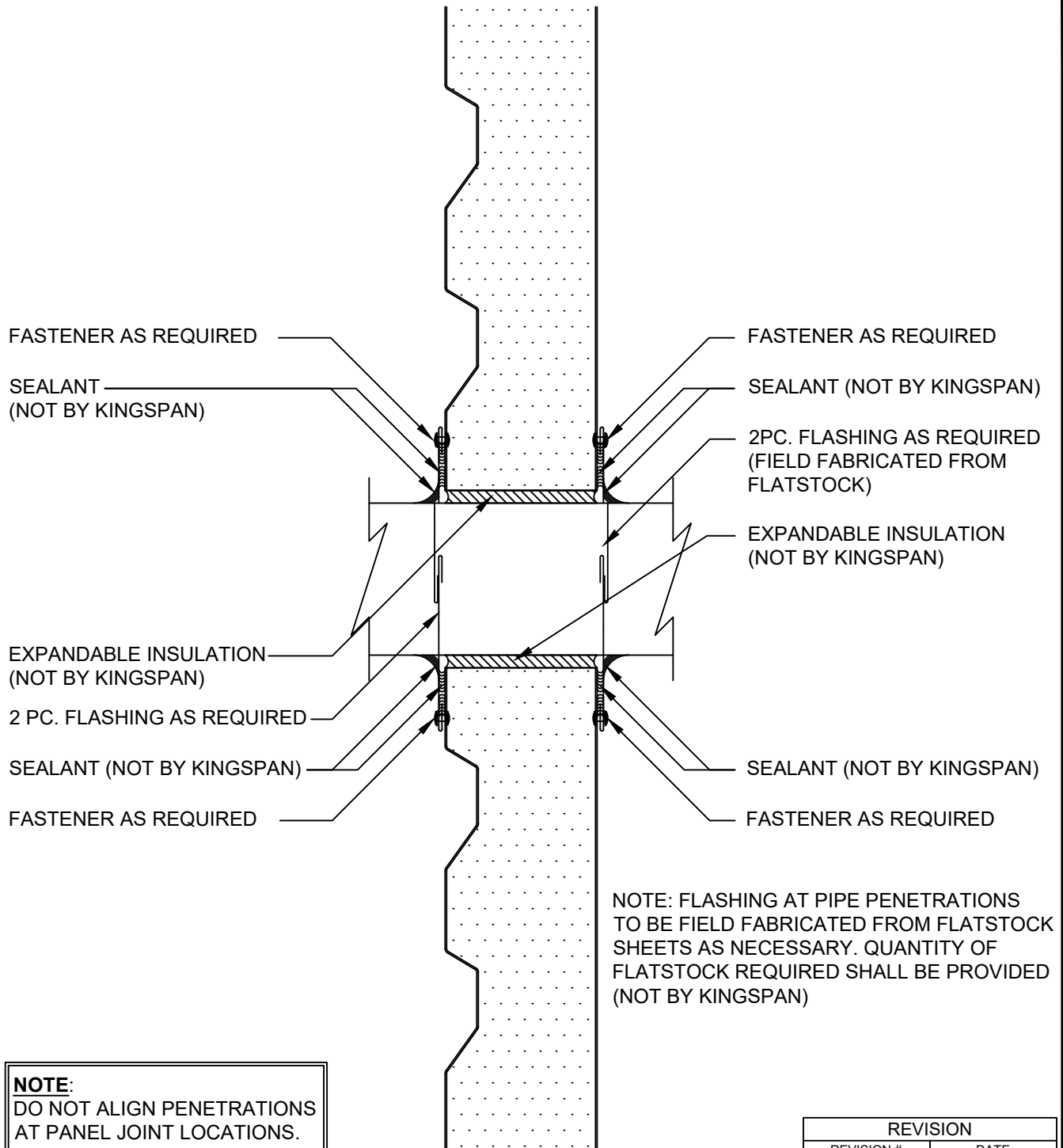
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



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|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

## PIPE PENETRATION SECTION

DETAIL #: CI-PE-01-VH

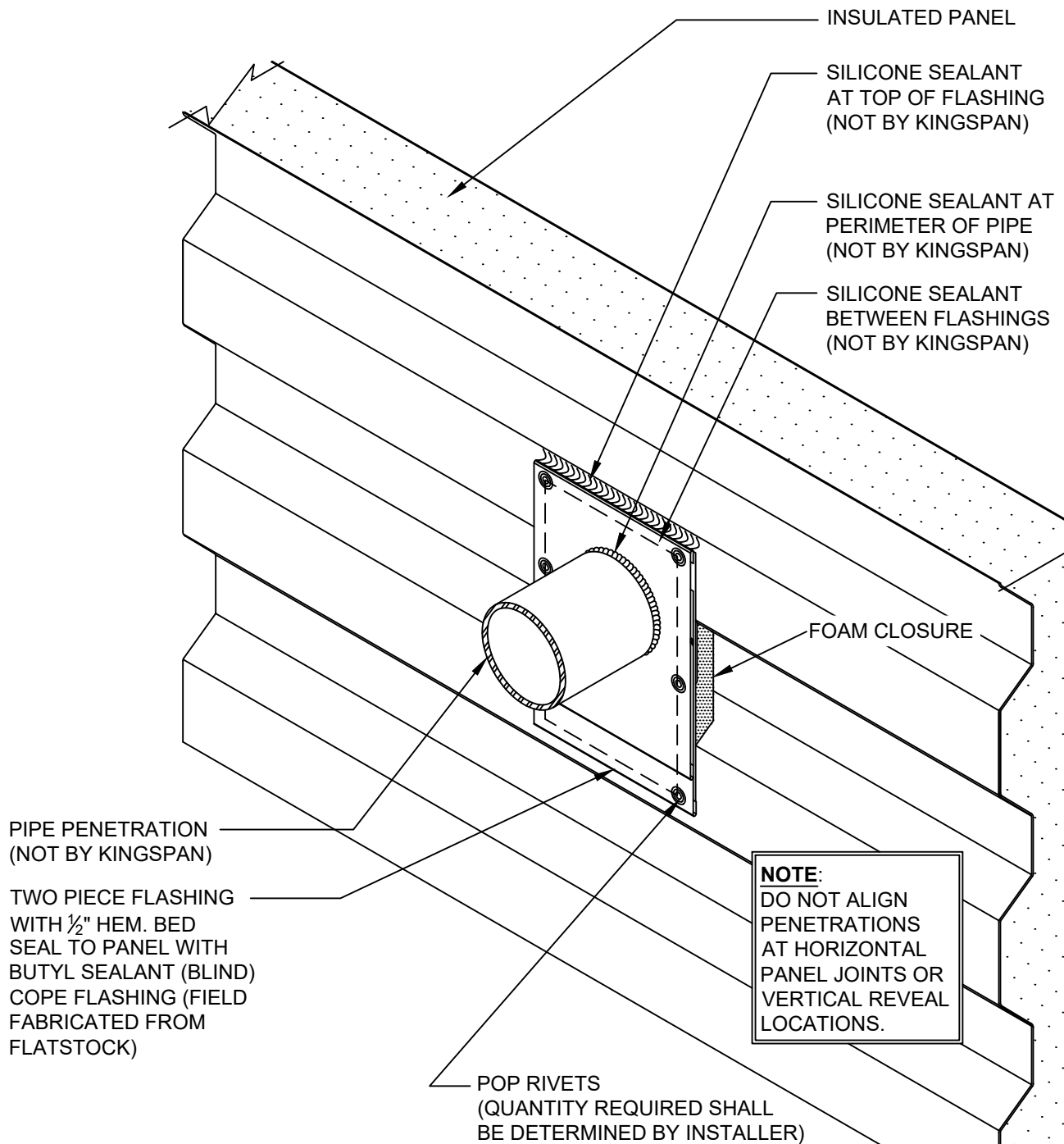
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



**NOTE:**  
DO NOT ALIGN  
PENETRATIONS  
AT HORIZONTAL  
PANEL JOINTS OR  
VERTICAL REVEAL  
LOCATIONS.

POP RIVETS  
(QUANTITY REQUIRED SHALL  
BE DETERMINED BY INSTALLER)

NOTE: FLASHING AT PENETRATIONS  
TO BE FIELD FABRICATED FROM FLATSTOCK  
SHEETS AS NECESSARY. QUANTITY OF  
FLATSTOCK REQUIRED SHALL BE DETERMINED BY INSTALLER  
(NOT BY KINGSPAN)

NOTE:  
THIS DETAIL ASSUMES  
PENETRATION OCCURS  
AFTER PANEL IS INSTALLED

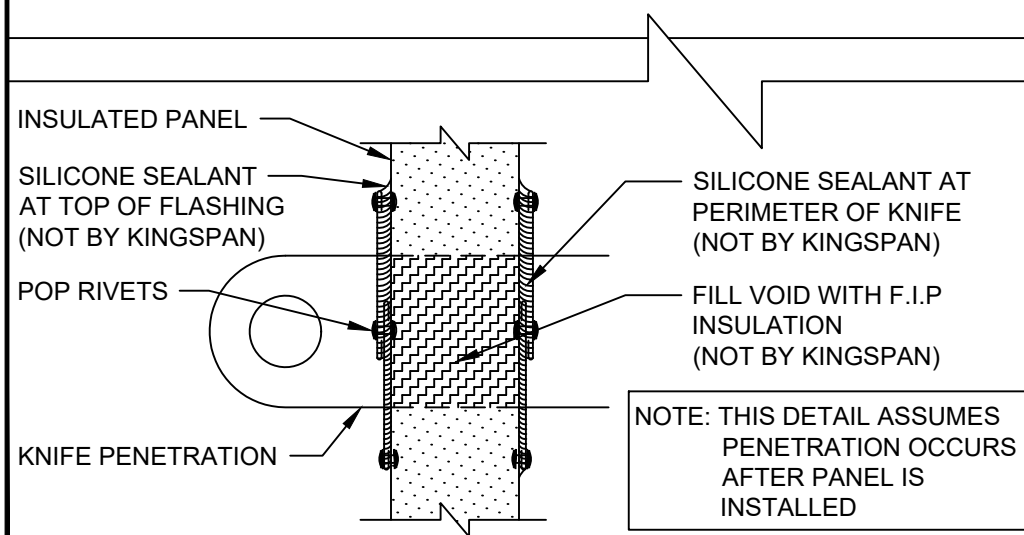
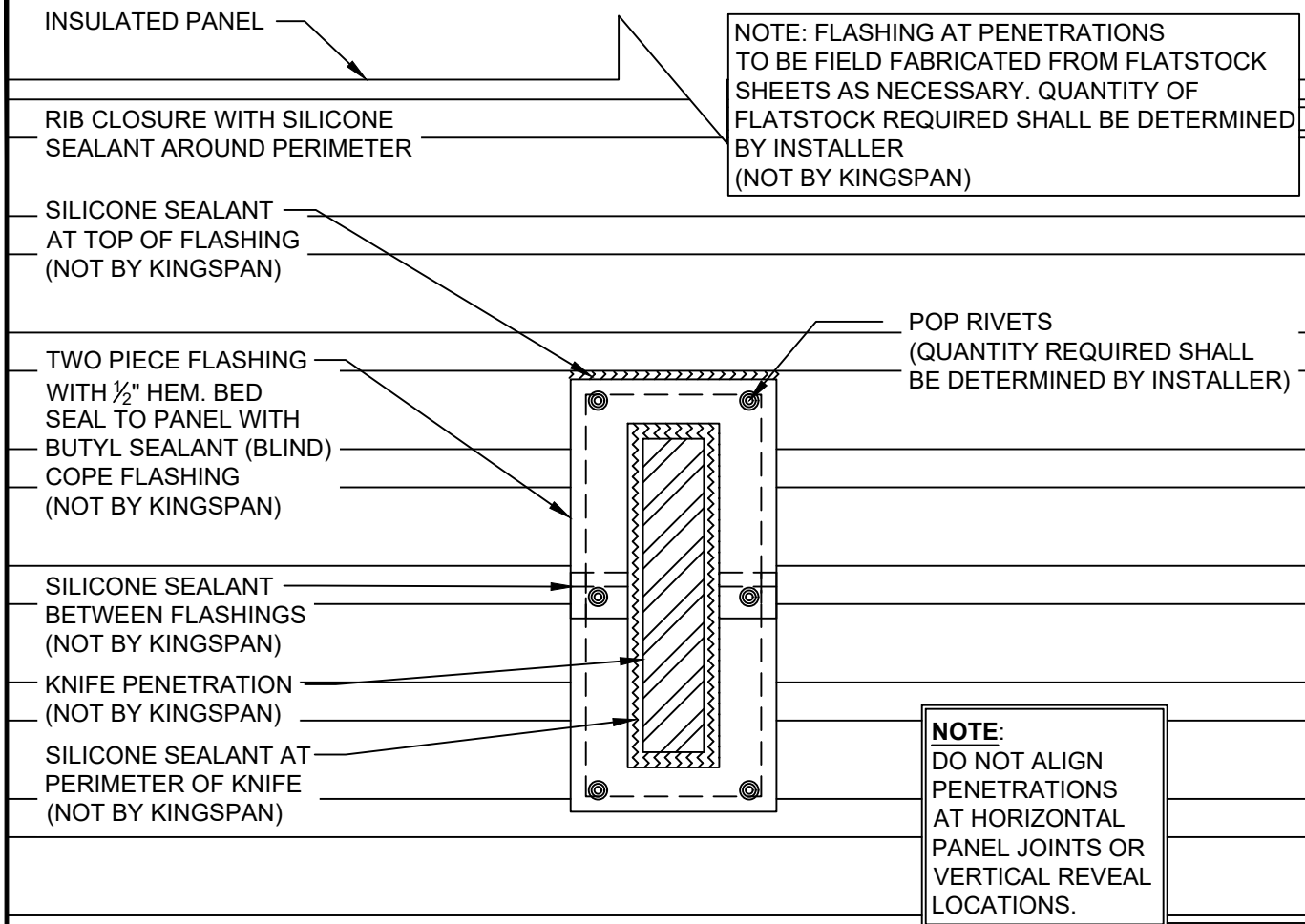
| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
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PIPE PENETRATION  
ISOMETRIC

DETAIL #: CI-PE-02-VH  
RELEASE: 2023  
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# VALE - HORIZONTAL INSTALL



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| REVISION # | DATE     |
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## KNIFE PLATE DETAIL

DETAIL #: CI-PE-03-VH

RELEASE: 2023

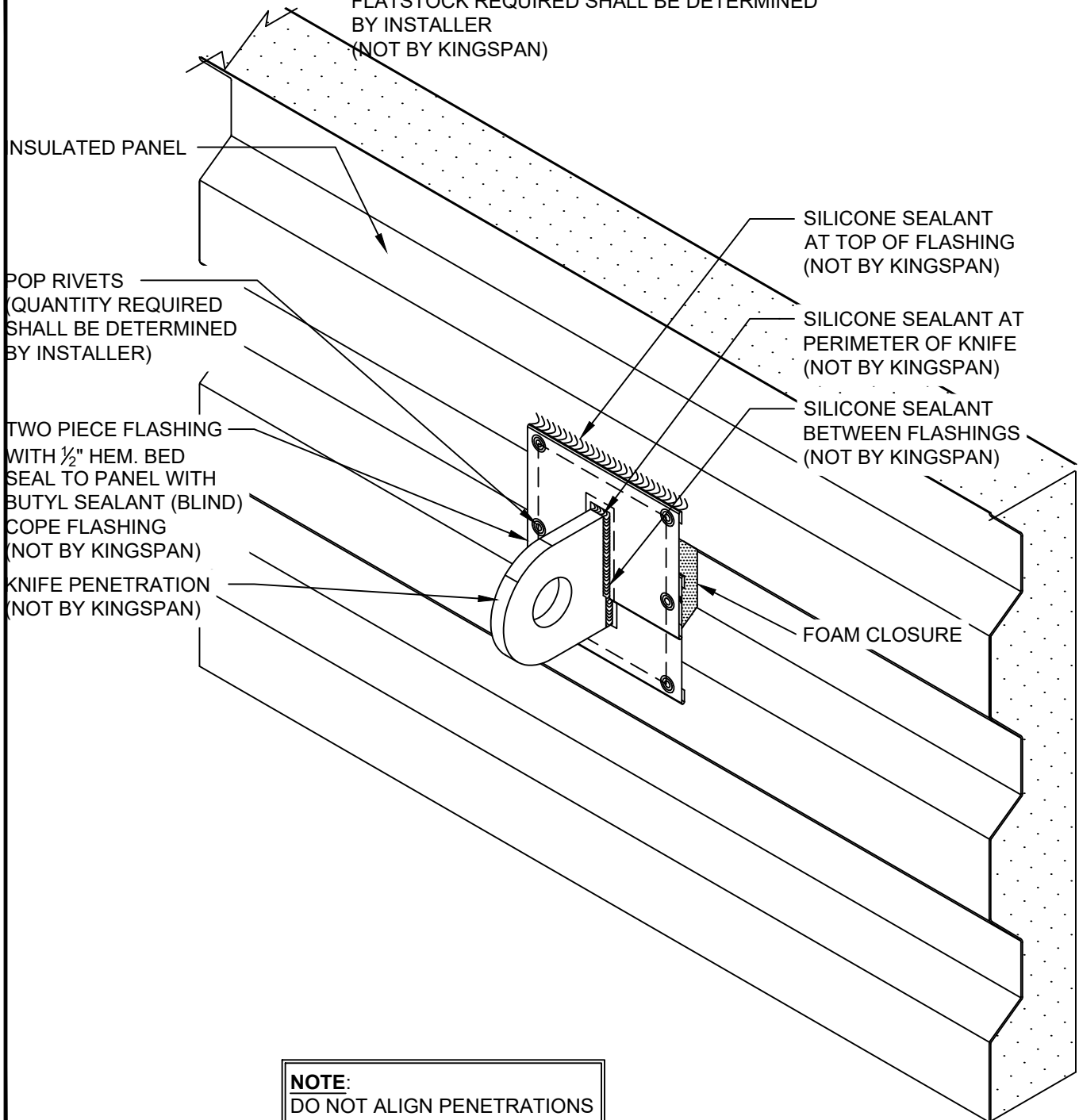
REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL

NOTE: FLASHING AT PENETRATIONS  
TO BE FIELD FABRICATED FROM FLATSTOCK  
SHEETS AS NECESSARY. QUANTITY OF  
FLATSTOCK REQUIRED SHALL BE DETERMINED  
BY INSTALLER  
(NOT BY KINGSPAN)



**NOTE:**  
DO NOT ALIGN PENETRATIONS  
AT PANEL JOINT LOCATIONS.

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KNIFE PLATE ISOMETRIC

DETAIL #: CI-PE-04-VH

RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL

INSULATED PANEL

NOTE: FLASHING AT PENETRATIONS TO BE FIELD FABRICATED FROM FLATSTOCK SHEETS AS NECESSARY. QUANTITY OF FLATSTOCK REQUIRED SHALL BE DETERMINED BY INSTALLER (NOT BY KINGSPAN)

SILICONE SEALANT AT TOP OF FLASHING (NOT BY KINGSPAN)

SILICONE SEALANT BETWEEN FLASHINGS (NOT BY KINGSPAN)

TWO PIECE FLASHING WITH  $\frac{1}{2}$ " HEM. BED SEAL TO PANEL WITH BUTYL SEALANT (BLIND) COPE FLASHING (NOT BY KINGSPAN)

POP RIVETS (QUANTITY REQUIRED SHALL BE DETERMINED BY INSTALLER)

BEAM PENETRATION (NOT BY KINGSPAN)

SILICONE SEALANT AT PERIMETER OF BEAM (NOT BY KINGSPAN)

FILL CORRUGATIONS WITH SILICONE SEALANT (TYP) (NOT BY KINGSPAN)

REINFORCING ANGLES BEHIND FLASHING ATTACHED TO WEB OF BEAM (NOT BY KINGSPAN)

NOTE: DO NOT ALIGN PENETRATIONS AT HORIZONTAL PANEL JOINTS OR VERTICAL REVEAL LOCATIONS.

INSULATED PANEL

SILICONE SEALANT AT TOP OF FLASHING (NOT BY KINGSPAN)

BEAM PENETRATION

SILICONE SEALANT AT PERIMETER OF BEAM (NOT BY KINGSPAN)

FILL VOID WITH F.I.P INSULATION (NOT BY KINGSPAN)

REINFORCING ANGLES BEHIND FLASHING ATTACHED TO WEB OF BEAM (NOT BY KINGSPAN)

POP RIVETS

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|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

## BEAM PENETRATION DETAIL

DETAIL #: CI-PE-05-VH

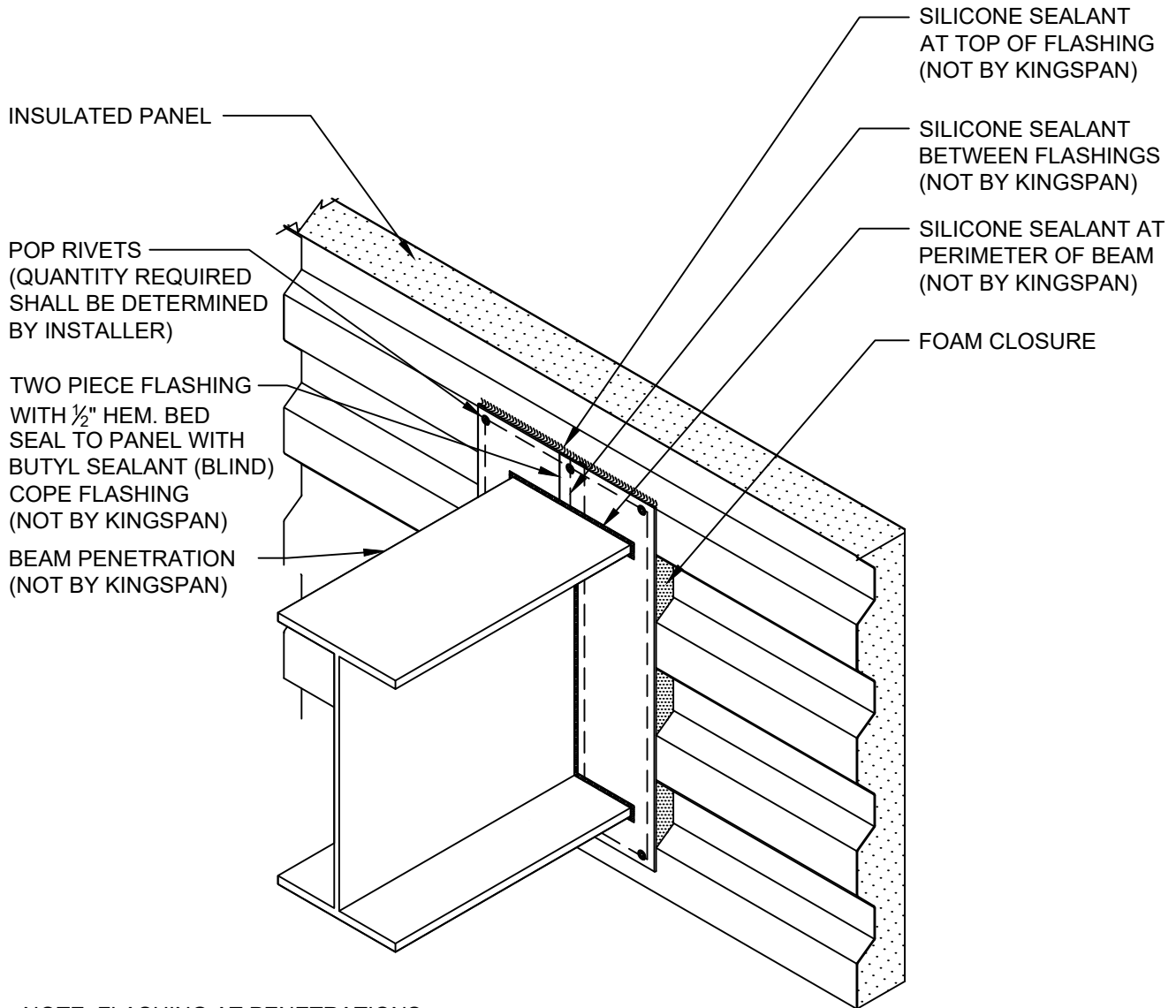
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# VALE - HORIZONTAL INSTALL



NOTE: FLASHING AT PENETRATIONS  
TO BE FIELD FABRICATED FROM FLATSTOCK  
SHEETS AS NECESSARY. QUANTITY OF  
FLATSTOCK REQUIRED SHALL BE DETERMINED  
BY INSTALLER  
(NOT BY KINGSPAN)

**NOTE:**  
DO NOT ALIGN PENETRATIONS  
AT PANEL JOINT LOCATIONS.

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BEAM PENETRATION  
ISOMETRIC

DETAIL #: CI-PE-06-VH

RELEASE: 2023

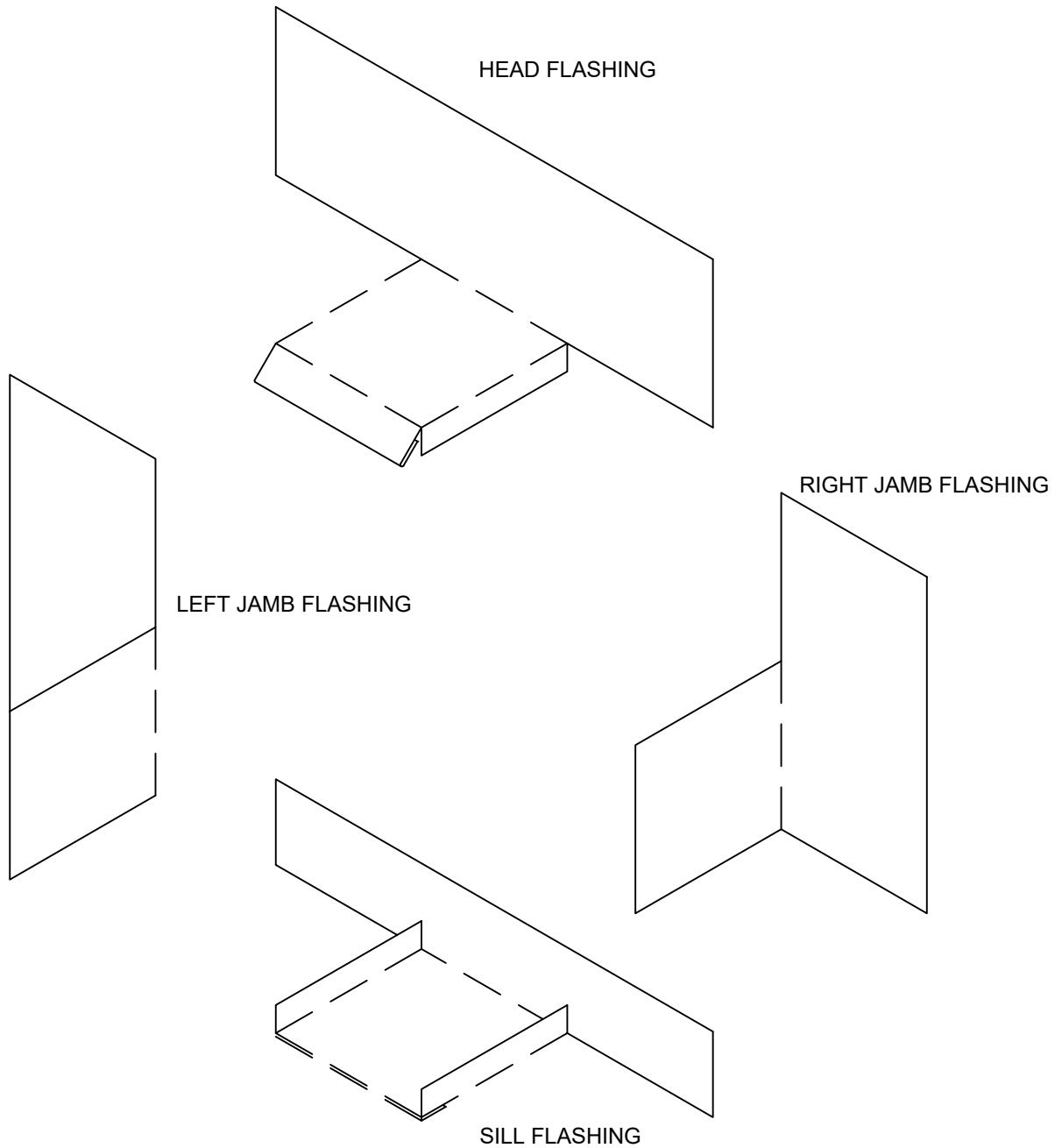
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# VALE - HORIZONTAL INSTALL



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| REVISION # | DATE     |
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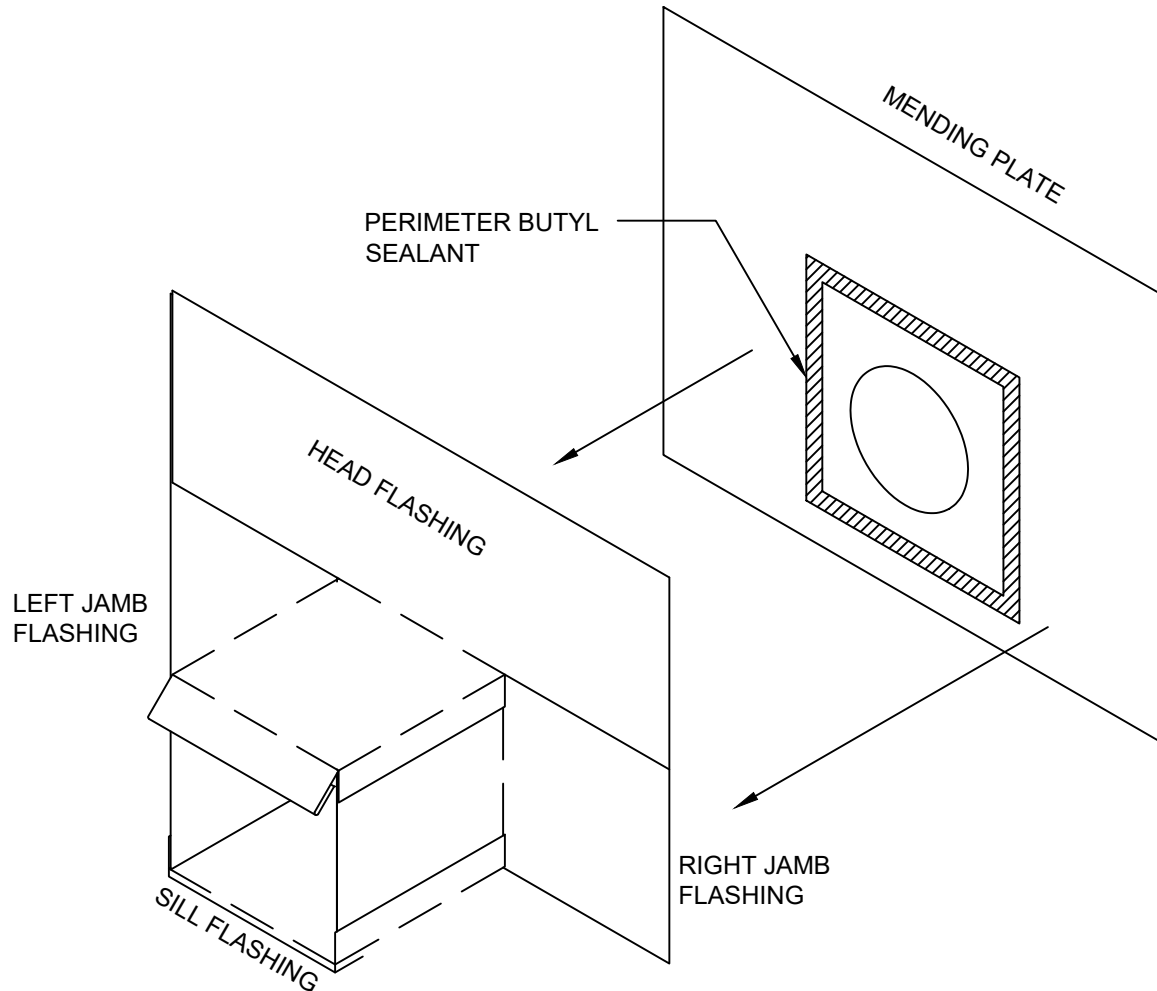
BOX PENETRATION  
INSTALLATION SEQUENCE

DETAIL #: CI-PE-07-VH  
RELEASE: 2023  
REGION: NORTH AMERICA  
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# VALE - HORIZONTAL INSTALL

MENDING PLATE TO BE INSTALLED ONTO BACK  
OF PRE-ASSEMBLED PENETRATION BOX  
(PRE-CUT PENETRATION PRIOR TO INSTALLATION)



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BOX PENETRATION  
INSTALLATION SEQUENCE

DETAIL #: CI-PE-08-VH

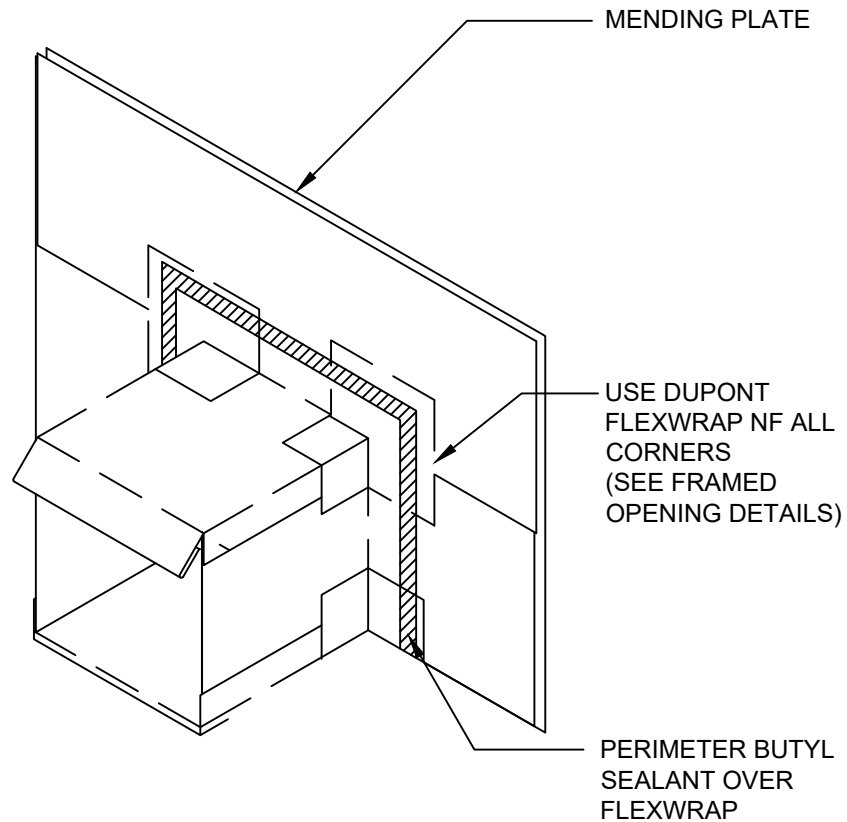
RELEASE: 2023

REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



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BOX PENETRATION  
INSTALLATION SEQUENCE

DETAIL #: CI-PE-09-VH

RELEASE: 2023

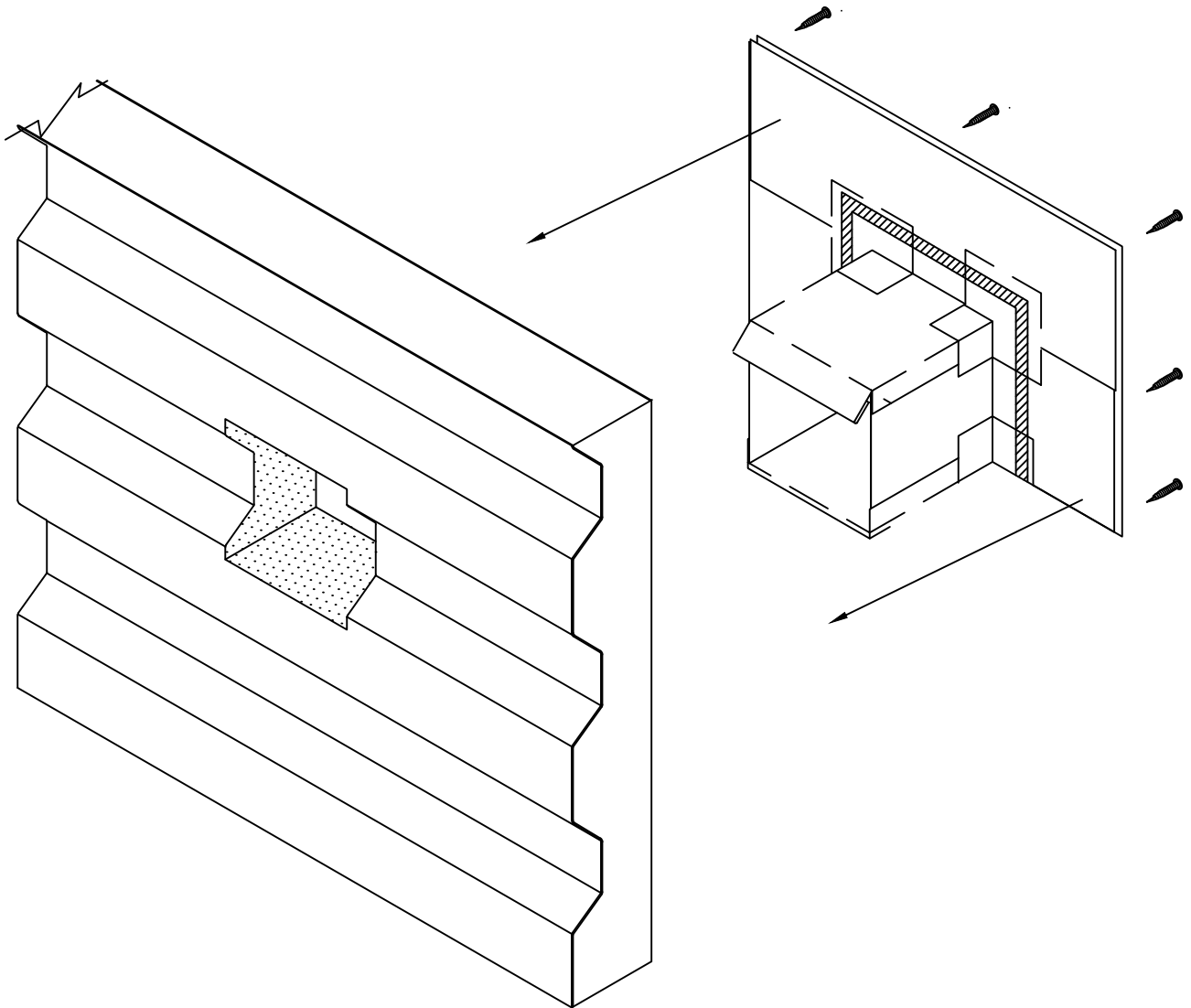
REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL

PENETRATION BOX TO BE ASSEMBLED ONTO  
BACK OF PANELS WITH PPH TEK FASTENERS  
MINIMUM 4" O.C.



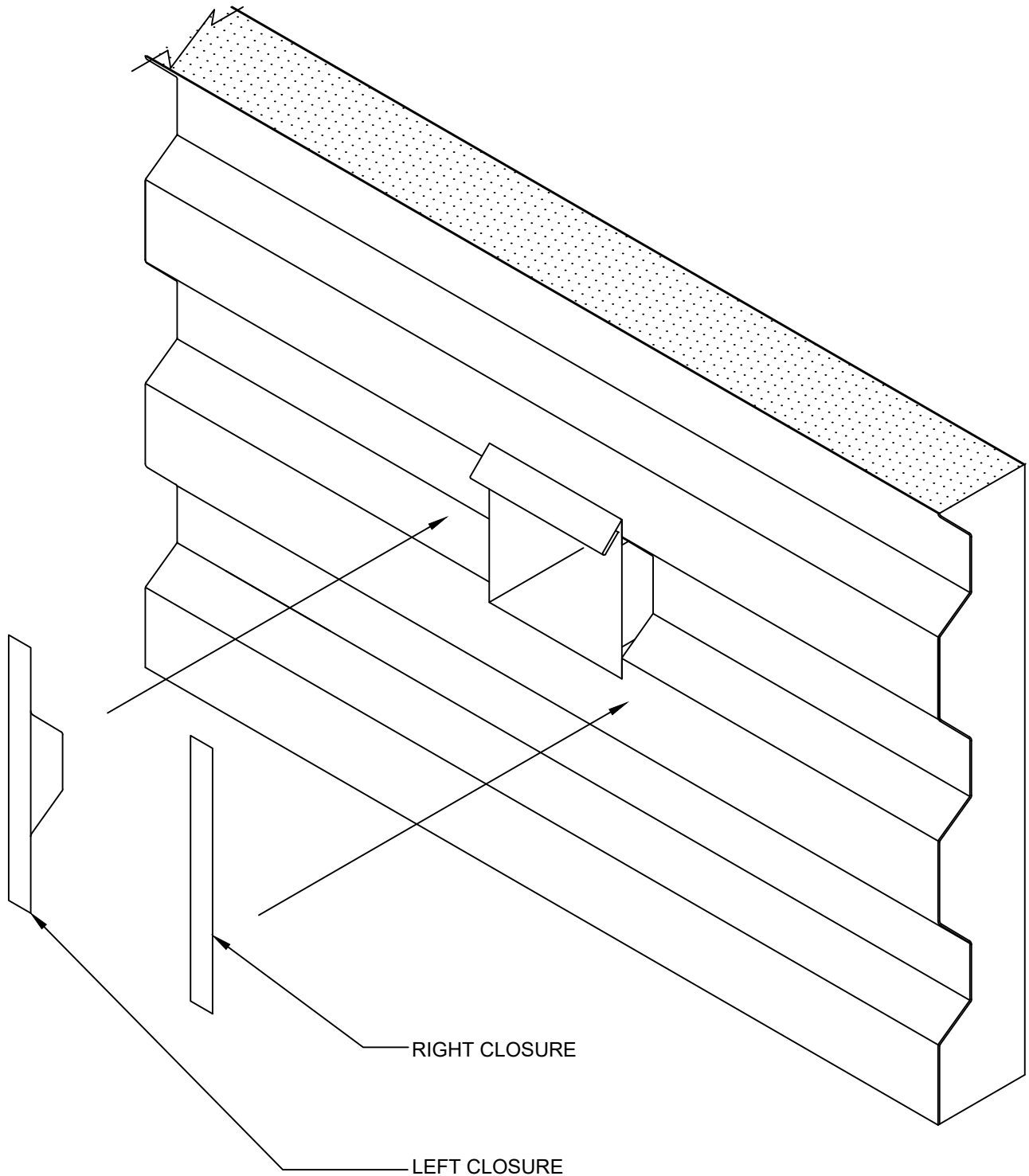
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| REVISION # | DATE     |
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BOX PENETRATION  
INSTALLATION SEQUENCE

DETAIL #: CI-PE-10-VH  
RELEASE: 2023  
REGION: NORTH AMERICA  
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# VALE - HORIZONTAL INSTALL



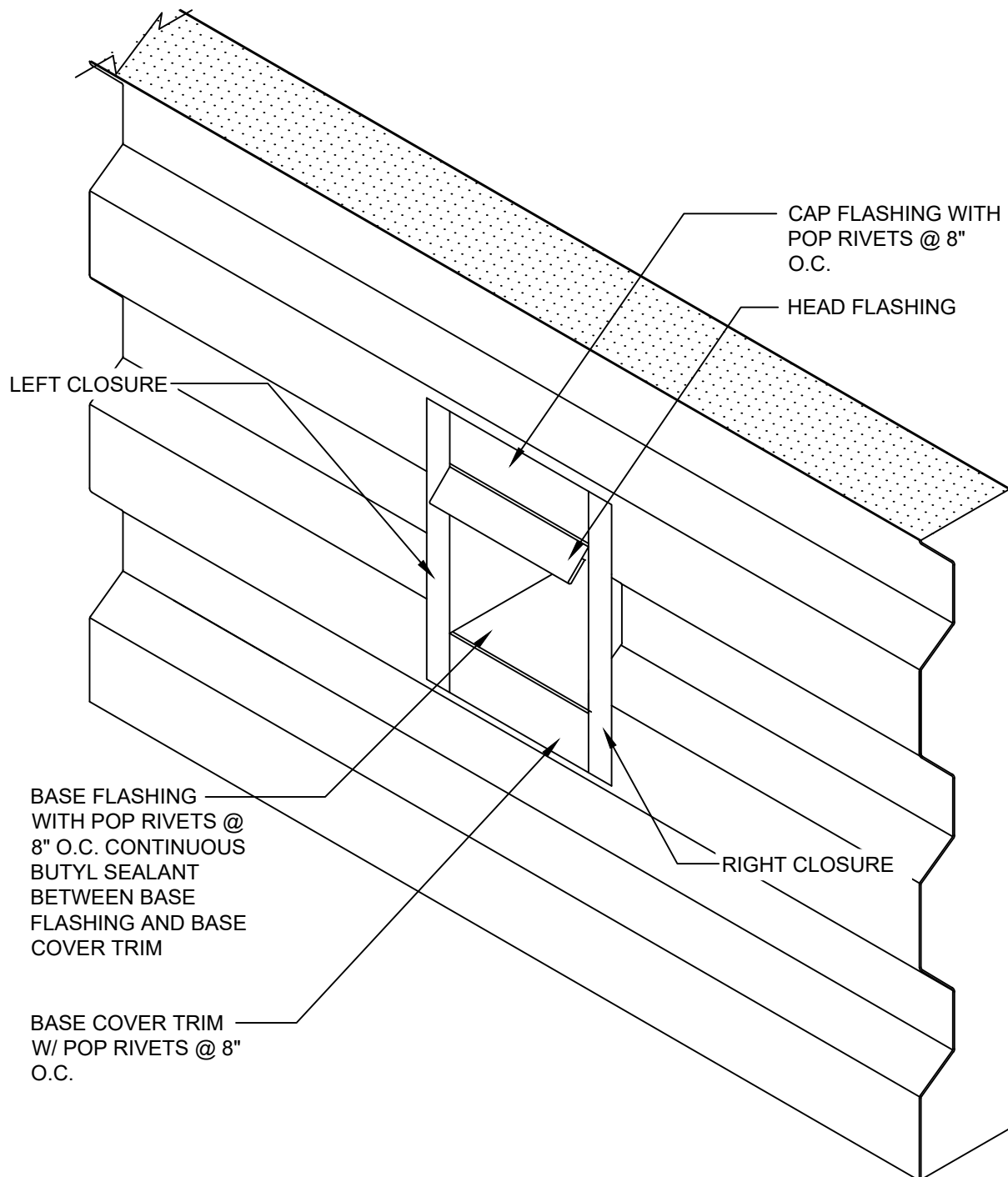
| REVISION   |          |
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| REVISION # | DATE     |
| 0          | 05/18/23 |

BOX PENETRATION  
INSTALLATION SEQUENCE

DETAIL #: CI-PE-11-VH  
RELEASE: 2023  
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# VALE - HORIZONTAL INSTALL



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**BOX PENETRATION  
INSTALLATION SEQUENCE**

DETAIL #: CI-PE-12-VH

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# VALE - HORIZONTAL INSTALL

REFER TO THE ISOMETRIC  
SUPPLEMENTAL DRAWING  
FOR FIELD PRE-FABRICATION  
OF THE PENETRATION BOX

PENETRATION BOXES VARY  
IN SIZE DUE TO PENETRATING  
OBJECTS. CONFIRM WITH  
KINGSPAN ENGINEERING IF  
SUPPORTS ARE REQUIRED

CAP FLASHING WITH  
POP RIVETS @ 8"  
O.C.

HEAD FLASHING

PERIMETER BUTYL  
SEALANT

PERIMETER BUTYL  
SEALANT

MENDING PLATE

PERIMETER SEAL  
PIPE WITH SILICONE  
SEALANT (NOT BY  
KINGSPAN)

BASE FLASHING  
WITH POP RIVETS @  
8" O.C. CONTINUOUS  
BUTYL SEALANT  
BETWEEN BASE  
FLASHING AND BASE  
COVER TRIM

BASE COVER TRIM  
W/ POP RIVETS @ 8"  
O.C.

MENDING PLATE  
SHINGLE LAPPED  
OVER BASE  
FLASHING LEG WITH  
CONTINUOUS BUTYL  
SEALANT AND POP  
RIVETS @ 4" O.C.

FLEX WRAP (SEE  
ISOMETRIC FOR  
INSTALLATION)

CAP TRIM WITH  
CONTINUOUS BUTYL  
SEALANT

PPH FASTENERS @  
MAXIMUM 4" O.C.

CLOSURE TRIM NOT  
SHOWN FOR CLARITY

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|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

BOX PENETRATION  
SECTION

DETAIL #: CI-PE-13-VH

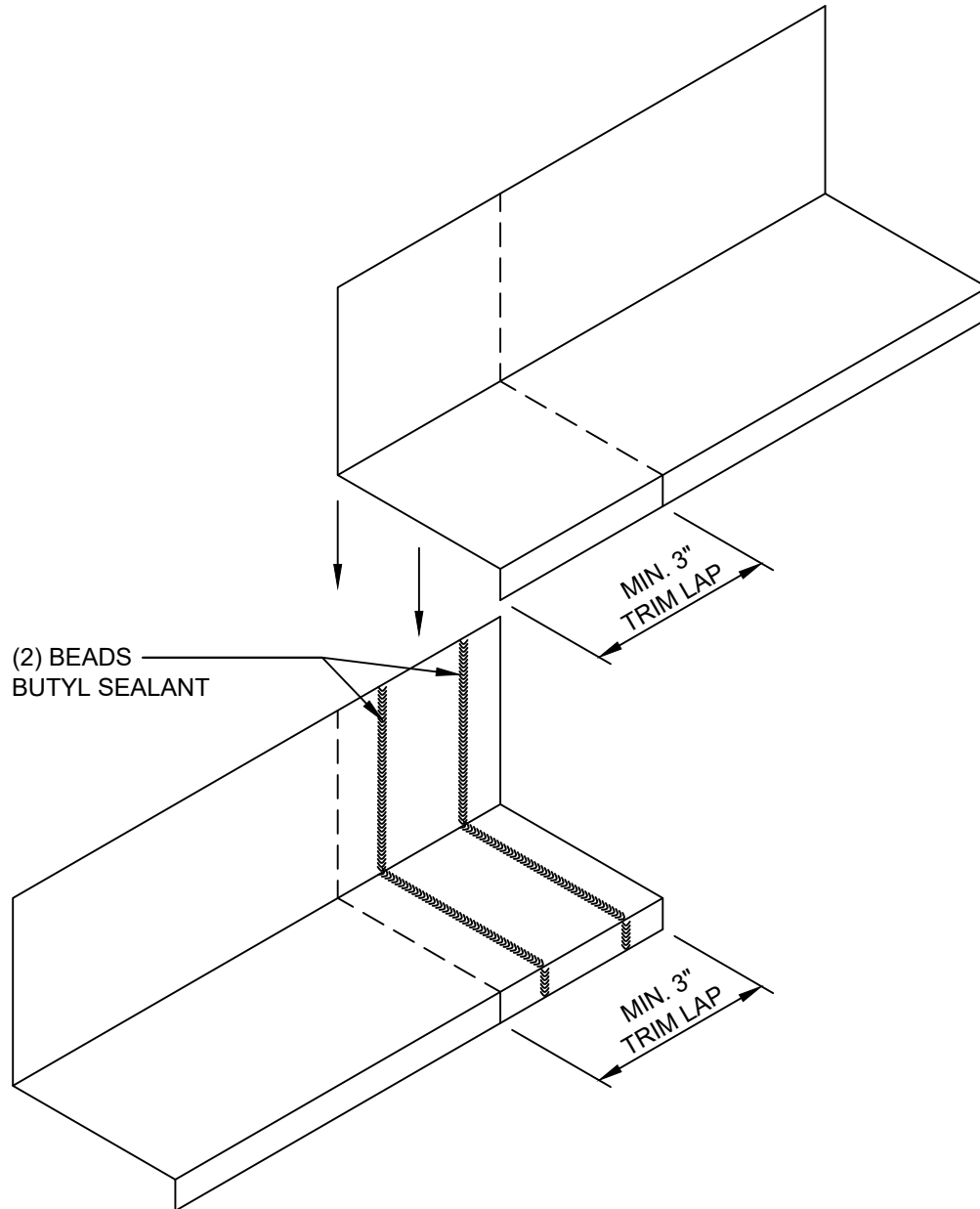
RELEASE: 2023

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# VALE - HORIZONTAL INSTALL



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| 0          | 05/18/23 |

TRIM LAP DETAILS  
W/ DRIP EDGE

DETAIL #: CI-TL-01-VH

RELEASE: 2023

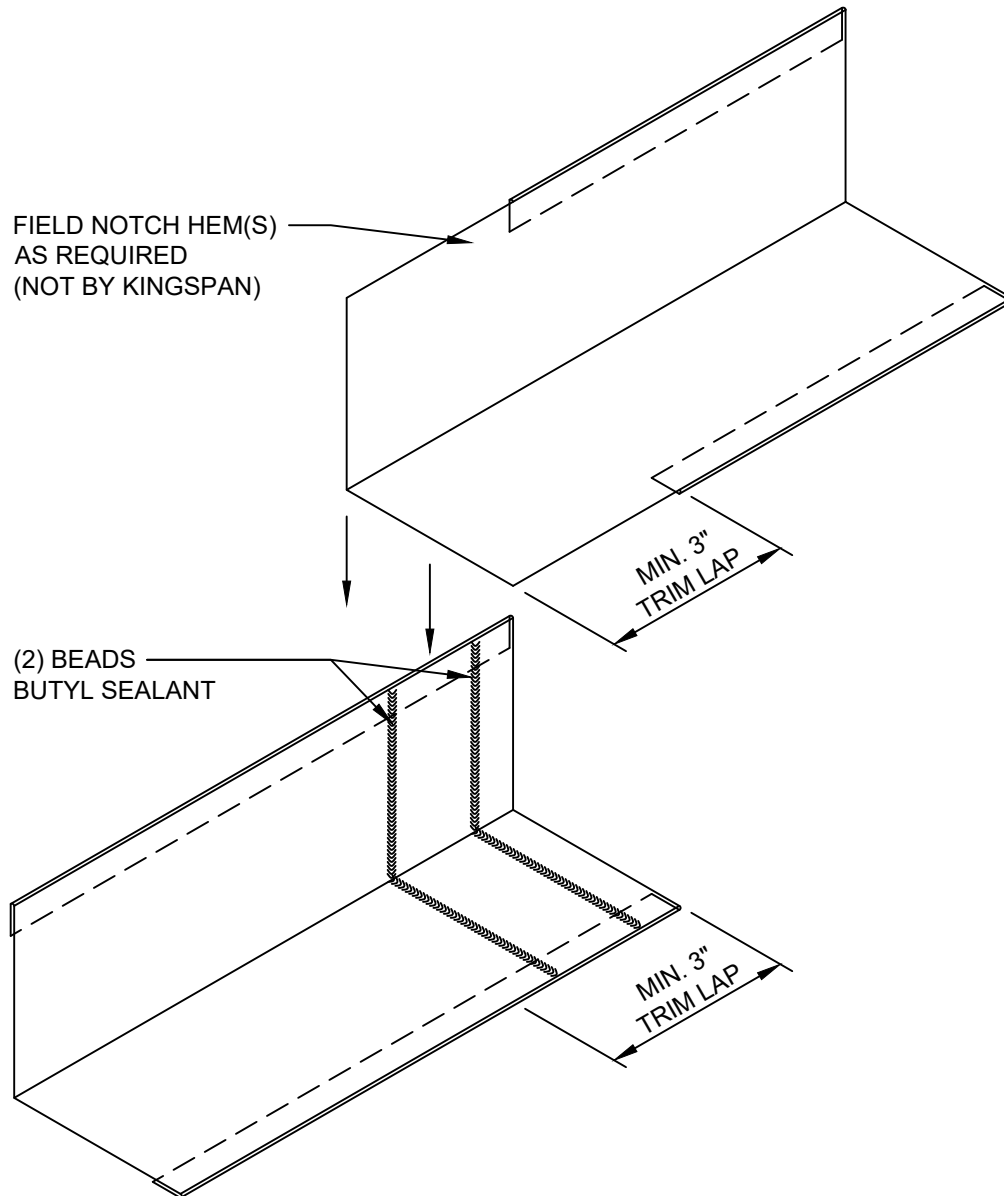
REGION: NORTH AMERICA

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# VALE - HORIZONTAL INSTALL



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|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

TRIM LAP DETAILS  
W/ HEM

DETAIL #: CI-TL-02-VH

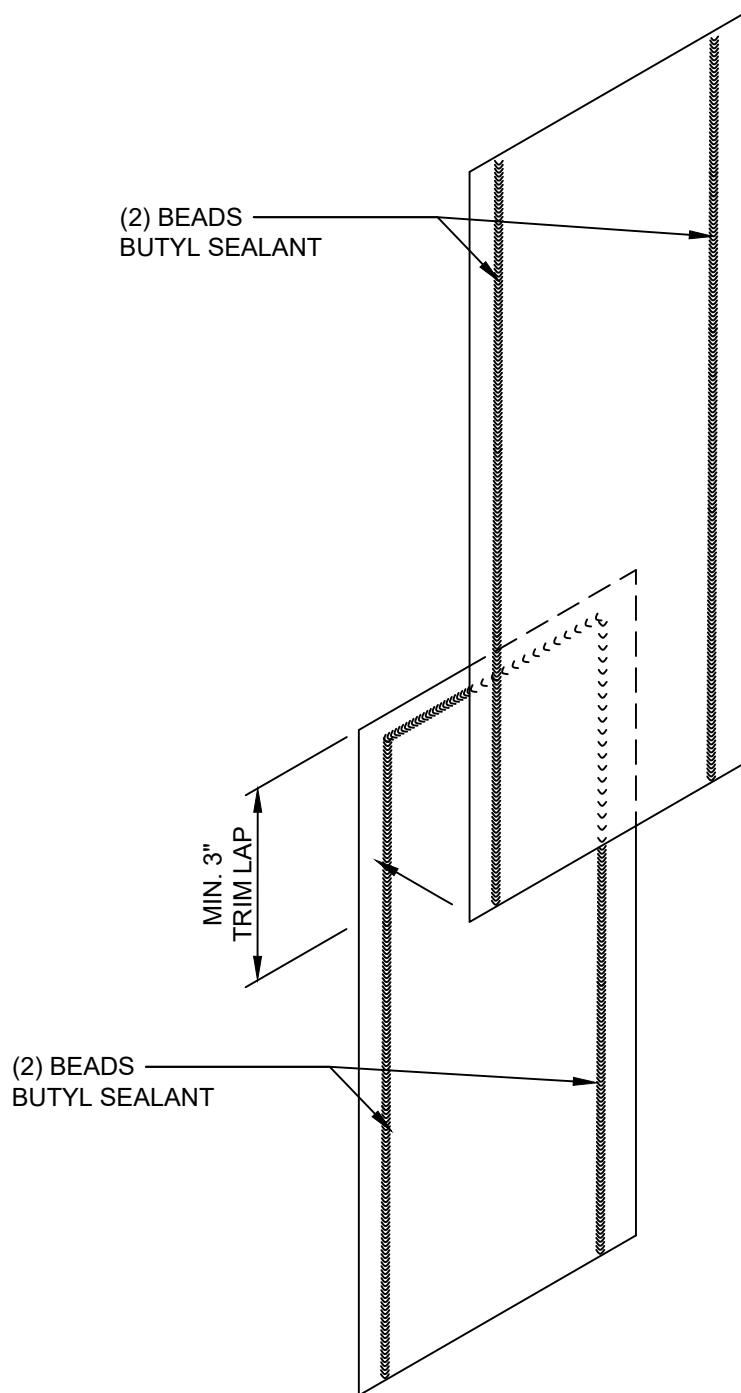
RELEASE: 2023

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# VALE - HORIZONTAL INSTALL



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|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

MENDING PLATE  
SHINGLE LAP

DETAIL #: CI-TL-03-VH

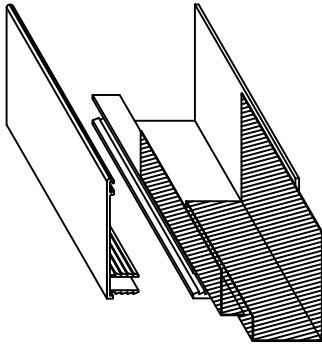
RELEASE: 2023

REGION: NORTH AMERICA

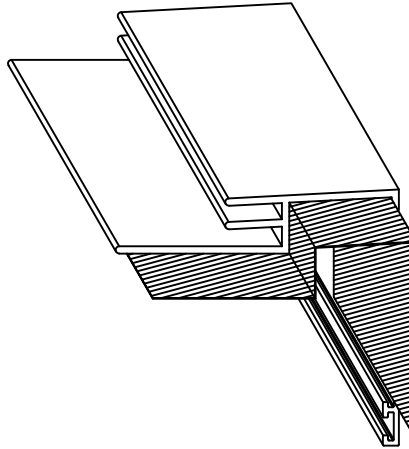
[www.kingspanpanels.com](http://www.kingspanpanels.com)



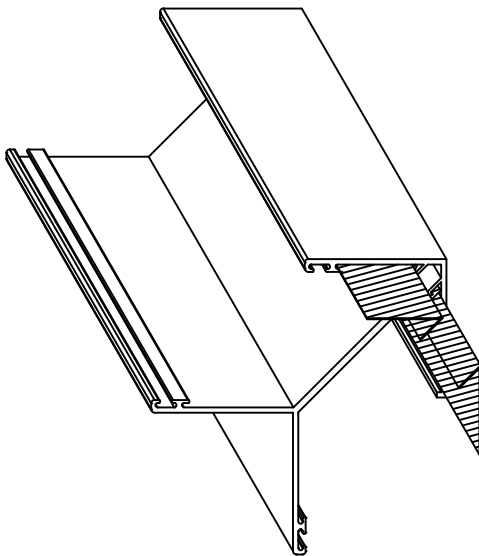
# VALE - HORIZONTAL INSTALL



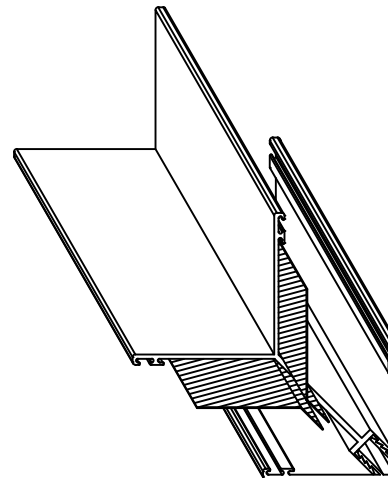
LAP STRIP FOR TWO PIECE  
JAMB EXTRUSION



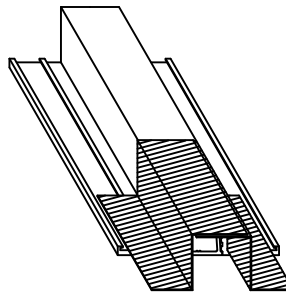
LAP STRIP FOR PARAPET EXTRUSION



LAP STRIPS FOR OUTSIDE CORNER  
EXTRUSION



LAP STRIPS FOR INSIDE CORNER  
EXTRUSION



LAP STRIP FOR VERTICAL HAT EXTRUSION

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|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

MENDING PLATE  
EXTRUSIONS

DETAIL #: CI-TL-04-VH

RELEASE: 2023

REGION: NORTH AMERICA

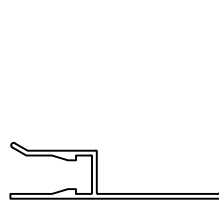
[www.kingspanpanels.com](http://www.kingspanpanels.com)



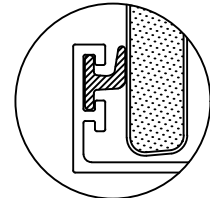
# VALE - HORIZONTAL INSTALL



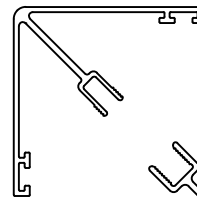
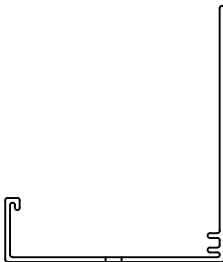
TWO PIECE OPENING  
EXTRUSION CAP  
PART # 2-0215



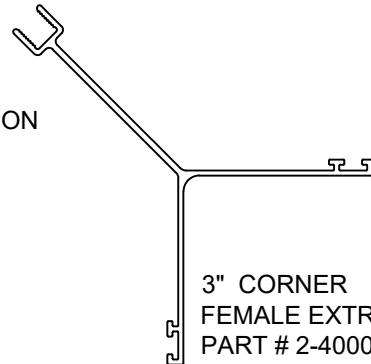
3" TWO PIECE OPENING  
EXTRUSION BASE  
PART # 2-0269



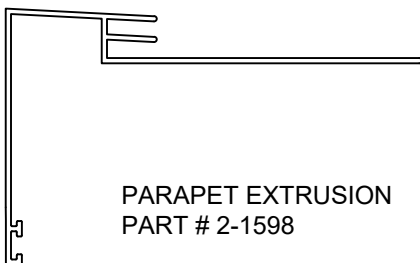
OPTIONAL WIPER  
GASKET  
(FIELD INSTALLED)



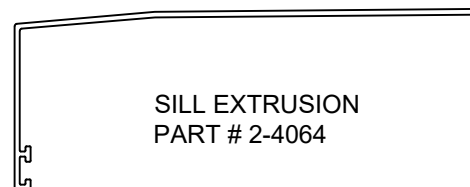
3" CORNER  
MALE EXTRUSION  
PART # 2-4083



3" CORNER  
FEMALE EXTRUSION  
PART # 2-4000



PARAPET EXTRUSION  
PART # 2-1598



SILL EXTRUSION  
PART # 2-4064

| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

KS SERIES  
3" EXTRUSIONS

DETAIL #: CI-EX-01-VH

RELEASE: 2023

REGION: NORTH AMERICA

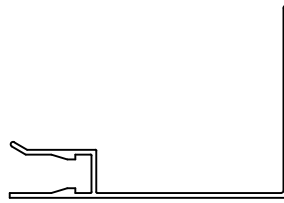
[www.kingspanpanels.com](http://www.kingspanpanels.com)



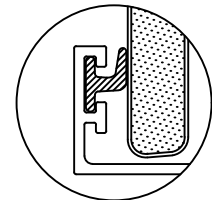
# VALE - HORIZONTAL INSTALL



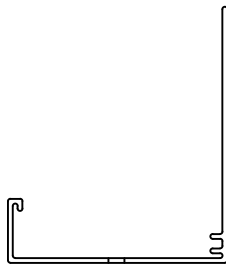
TWO PIECE OPENING  
EXTRUSION CAP  
PART # 2-0215



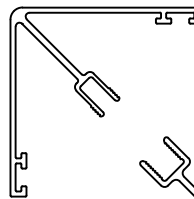
4" TWO PIECE OPENING  
EXTRUSION BASE  
PART # 2-4266



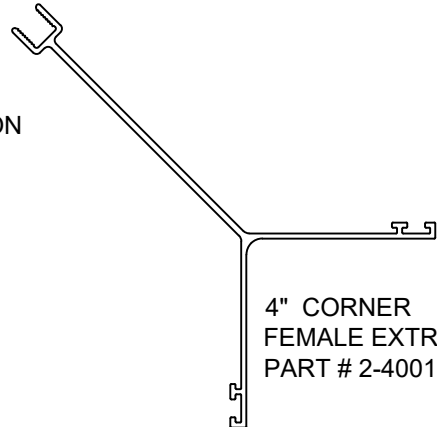
OPTIONAL WIPER  
GASKET  
(FIELD INSTALLED)



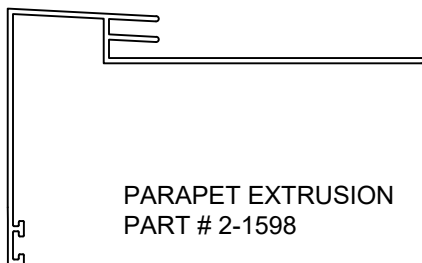
4" BASE "B" EXTRUSION  
PART # 2-4097



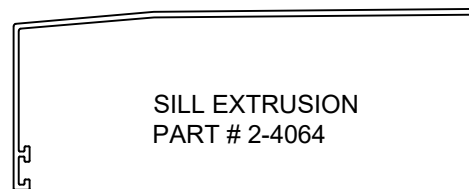
4" CORNER  
MALE EXTRUSION  
PART # 2-4083



4" CORNER  
FEMALE EXTRUSION  
PART # 2-4001



PARAPET EXTRUSION  
PART # 2-1598



SILL EXTRUSION  
PART # 2-4064

| REVISION   |          |
|------------|----------|
| REVISION # | DATE     |
| 0          | 05/18/23 |

KS SERIES  
4" EXTRUSIONS

DETAIL #: CI-EX-02-VH

RELEASE: 2023

REGION: NORTH AMERICA

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