

IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS

GENERAL NOTES:

- 1. THIS SYSTEM MEETS ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
- 2. THIS SYSTEM HAS BEEN TESTED PER TAS 100(A) AND ASTM D7147. IT IS NOT A PART OF THE BUILDING ENVELOPE, AND IMPACT RESISTANCE IS NOT REQUIRED.
- 3. THIS SYSTEM SHALL BE INSTALLED PER THE IRONRIDGE XR FLUSH MOUNT INSTALLATION MANUAL.
- 4. THE PV PANELS ARE BY OTHERS AND ARE NOT A PART OF THIS APPROVAL.
- 5. RAIL SPACING TO BE AS SPECIFIED BY THE PV PANEL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 6. THE DESIGN OF THE ROOF SUBSTRATE IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD OR OTHER SPECIALTY ENGINEER, AND IS NOT A PART OF THIS APPROVAL. THE SUBSTRATE MUST SAFELY TRANSMIT THE LOADS APPLIED TO THIS SYSTEM TO THE BUILDING STRUCTURE.
- 7. FIRE RATINGS OR FIRE RESISTANCE IS NOT A PART OF THIS REVIEW.
- 8. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
- 9. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PROTECTED PER FBC REQUIREMENTS.
- 10. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.

WINDLOAD NOTES:

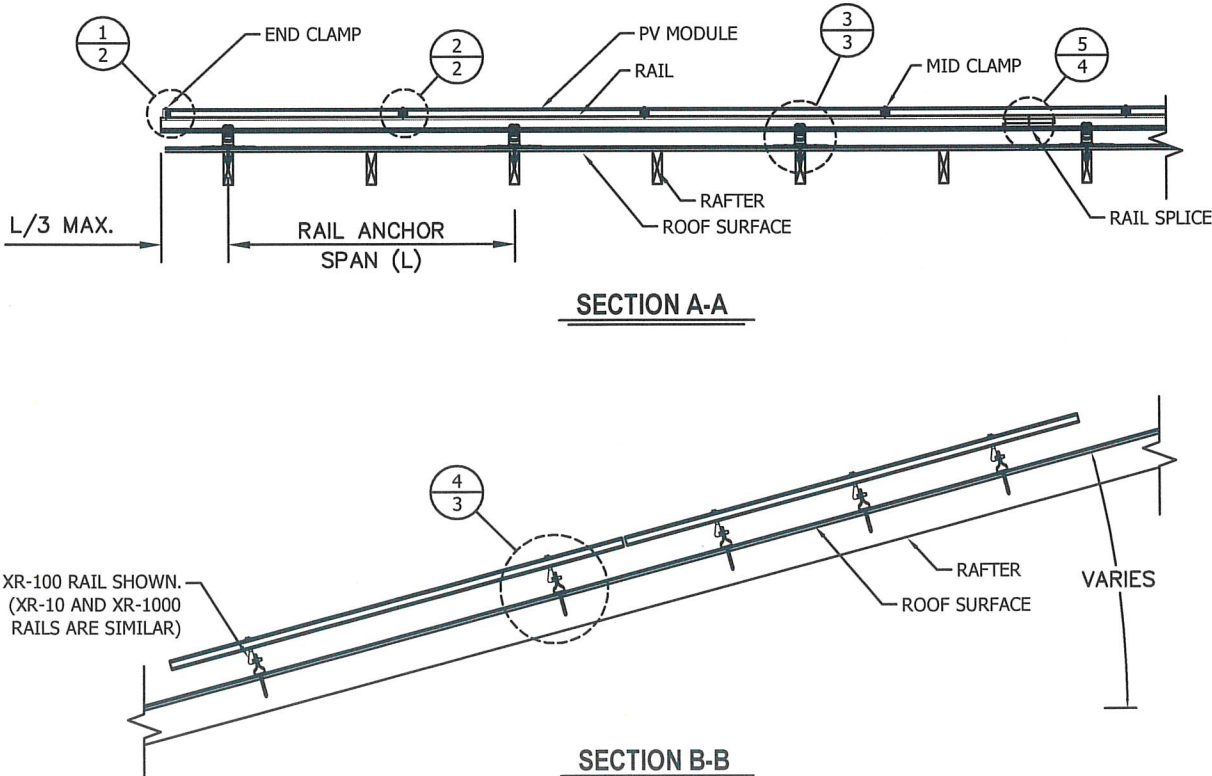
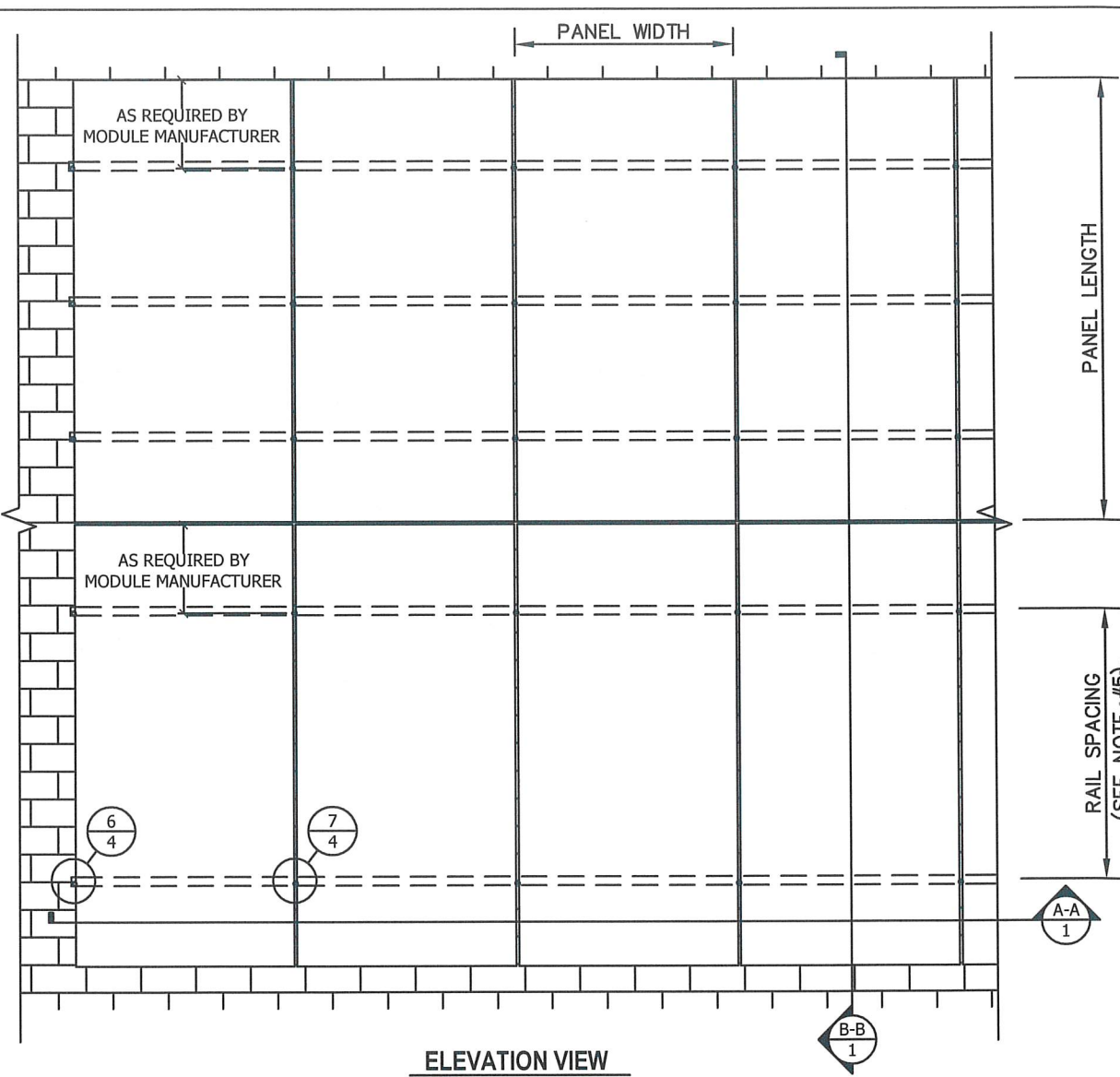
- 1. DESIGN WINDLOADS MUST BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT, PER ASCE 7-22 SECTION 29.4.4. DESIGN (ASD) WINDLOADS MAY NOT EXCEED THE ALLOWABLE WINDLOADS SHOWN IN THE CHARTS ON THIS SHEET OR SHEET 6.
- 2. PANEL SYSTEM LOCATION, HEIGHT, AND SPACING MUST MEET THE REQUIREMENTS OF ASCE 7-22 SECTION 29.4.4. WINDLOADS ACT NORMAL TO THE SURFACE OF THE PV PANEL SYSTEM.
- 3. OTHER CONFIGURATIONS REQUIRE PROJECT SPECIFIC ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT.
- 4. ALLOWABLE (ASD) WINDLOADS BELOW ARE BASED ON ANCHORING IN WOOD RAFTERS WITH S.G.=0.55 MIN. SEE SHEET 6 FOR ALLOWABLE LOADS BASED ON RAFTERS WITH OTHER SPECIFIC GRAVITY VALUES.

ALLOWABLE WINDLOADS

ALLOWABLE WINDLOADS											
TWO RAIL SYSTEM						THREE RAIL SYSTEM					
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	XR-10 RAIL (+/- psf)	XR-100 RAIL (+/- psf)	XR-1000 RAIL (+/- psf)	PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	XR-10 RAIL (+/- psf)	XR-100 RAIL (+/- psf)	XR-1000 RAIL (+/- psf)
45	67 1/2	16	90	90	90	45	67 1/2	16	135.0	135.0	135.0
		24	65.4	90	90			24	98.1	135.0	135.0
		32	56.1	90	90			32	84.2	135.0	135.0
		36	49.9	90	90			36	74.9	135.0	135.0
		48	37.4	85.6	90			48	56.1	128.4	135.0
		64	28	64.2	68.7			64	42.0	96.3	103.1
		72	23.7	54	59.8			72	35.6	81.0	89.7
	80	16	75.9	75.9	75.9		80	16	113.9	113.9	113.9
		24	55.2	75.9	75.9			24	82.8	113.9	113.9
		32	47.3	75.9	75.9			32	71.0	113.9	113.9
		36	42.1	75.9	75.9			36	63.2	113.9	113.9
		48	31.6	72.2	75.9			48	47.4	108.3	113.9
		64	23.7	54.2	58			64	35.6	81.3	87.0
		72	20	45.6	50.5			72	30.0	68.4	75.8
	86	16	70.6	70.6	70.6		86	16	105.9	105.9	105.9
		24	51.3	70.6	70.6			24	77.0	105.9	105.9
		32	44	70.6	70.6			32	66.0	105.9	105.9
		36	39.1	70.6	70.6			36	58.7	105.9	105.9
		48	29.4	67.2	70.6			48	44.1	100.8	105.9
		64	22	50.4	54			64	33.0	75.6	81.0
		72	18.6	42.4	46.9			72	27.9	63.6	70.4
	92 1/2	16	79.7	65.7	65.7		92 1/2	16	119.6	98.6	98.6
		24	47.7	65.7	65.7			24	71.6	98.6	98.6
		32	40.9	65.7	65.7			32	61.4	98.6	98.6
		36	36.4	65.7	65.7			36	54.6	98.6	98.6
		48	27.3	52.5	65.7			48	41.0	78.8	98.6
		64	20.5	46.9	50.2			64	30.8	70.4	75.3
		72	17.3	39.4	43.6			72	26.0	59.1	65.4
LANDSCAPE LAYOUT:											
45	92 1/2	16	79.5	65.7	65.7	45	92 1/2	16	119.3	98.6	98.6
		24	52.9	65.7	65.7			24	79.4	98.6	98.6
		32	40.8	65.7	65.7			32	61.2	98.6	98.6
		36	36	65.7	65.7			36	54.0	98.6	98.6
		48	24.2	55	65.7			48	36.3	82.5	98.6
		64	20.5	46.9	65.7			64	30.8	70.4	98.6
		72	18.2	41.7	65.7			72	27.3	62.6	98.6

THREE RAIL SYSTEM:

TWO RAIL SYSTEM:



4/24/25

REVISION

3

4/29/24

REVISION

2

10/18/23

2023 CODE UPDATE

1

12/19/22

1ST SUBMITTAL

-

REV.#

DATE

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

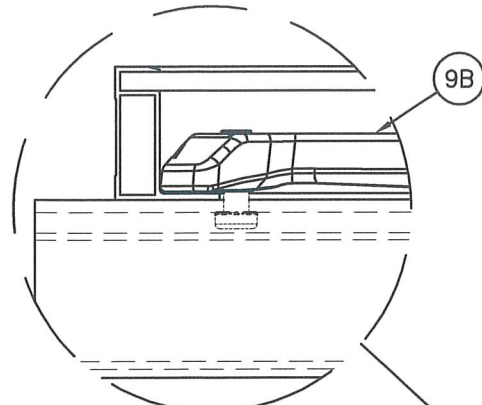
DWG:

XR-FF2

SHEET:

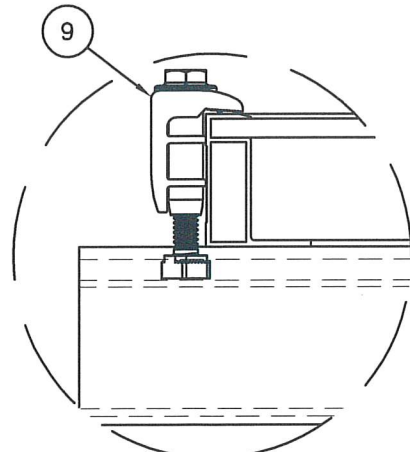
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IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS

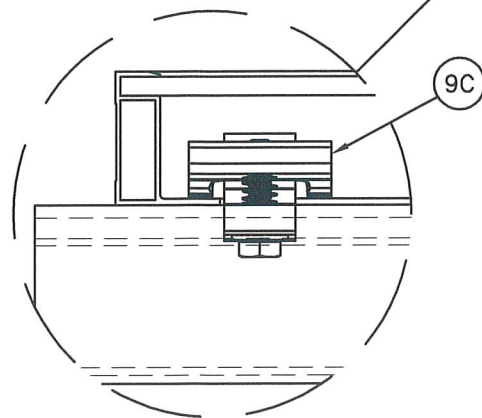


1B
2

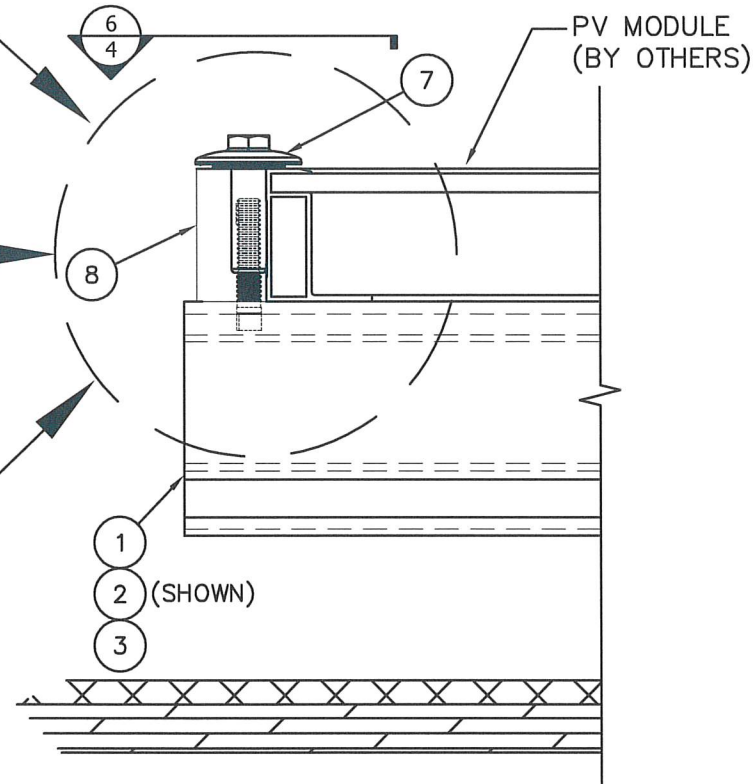
ALTERNATE CAMO
END-CLAMP DETAIL



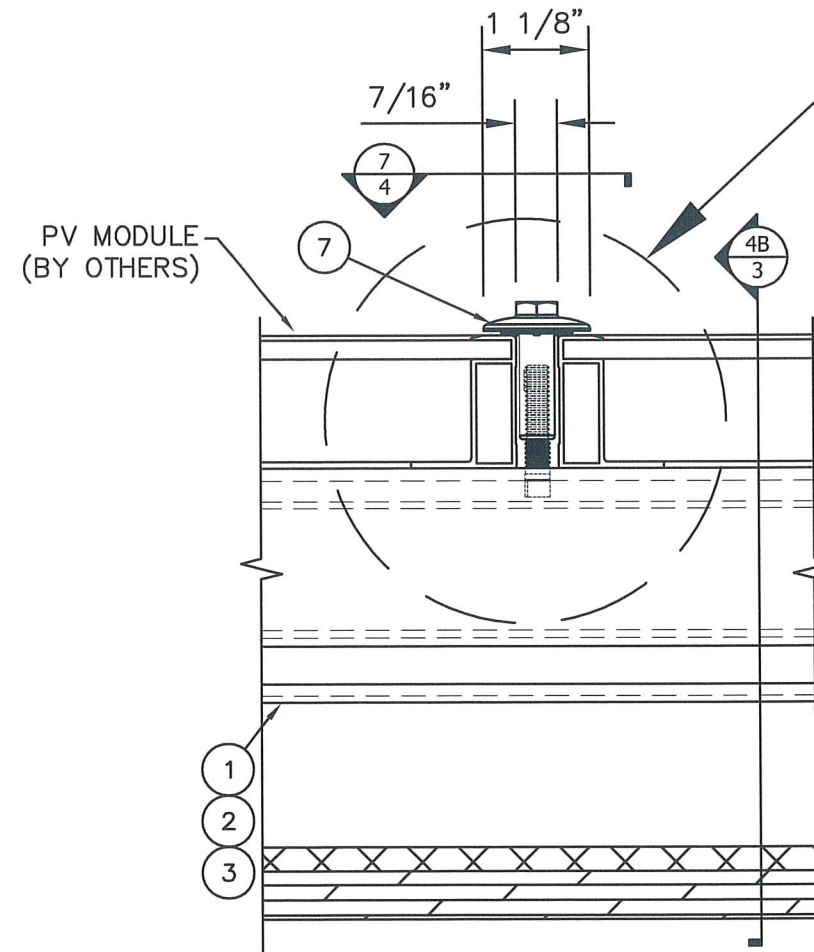
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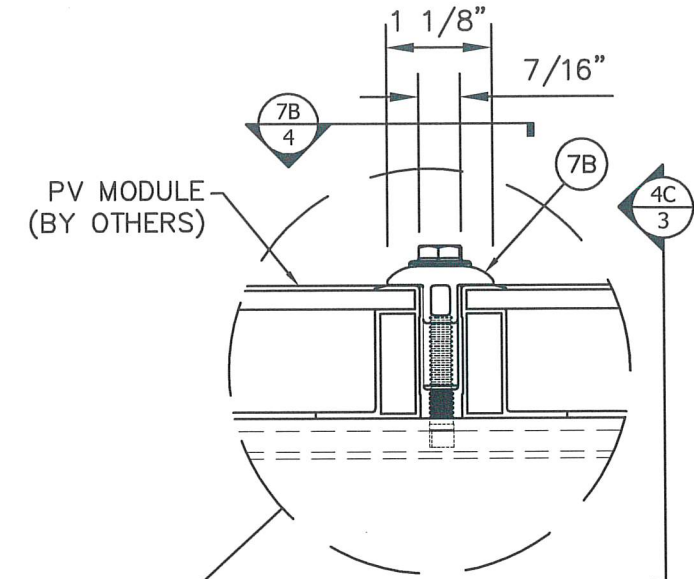
ALTERNATE ECLIPSE
END-CLAMP DETAIL



UFO END-CLAMP
WITH STOPPER SLEEVE

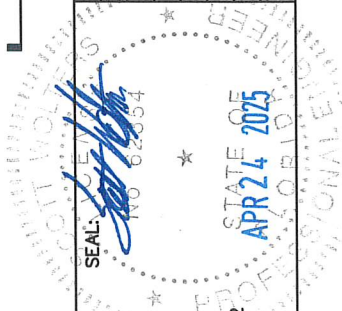


IRONRIDGE UFO
MID-CLAMP DETAIL



2B
2
IRONRIDGE XR
MID-CLAMP DETAIL

—	—	—
—	—	—
—	—	—
REVISION	3	4/24/25
REVISION	2	4/29/24
2023 CODE UPDATE	1	10/18/23
1ST SUBMITTAL	—	12/19/22
PRINTS ISSUED FOR	REV.#	DATE



SCOTT WOLTERS
FL PE# 62354

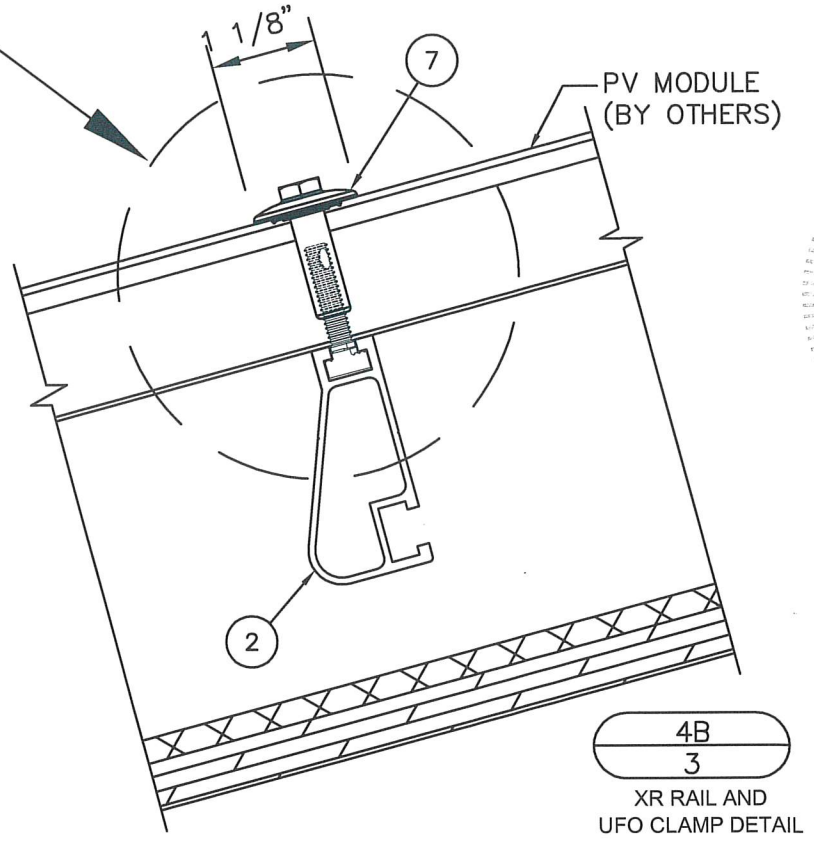
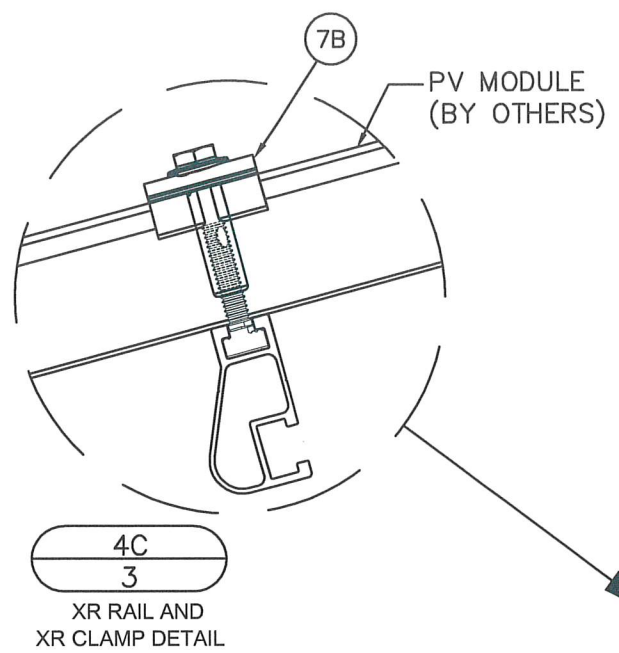
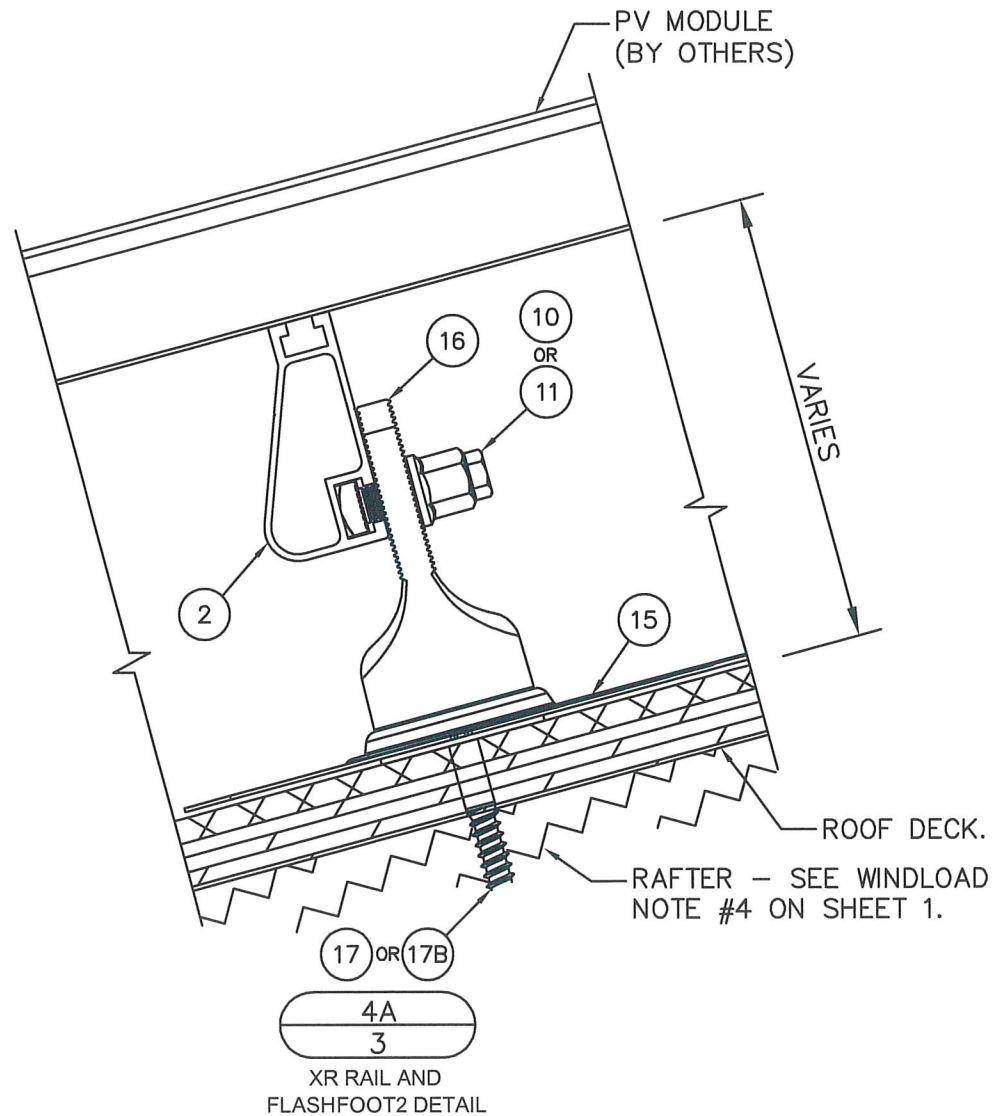
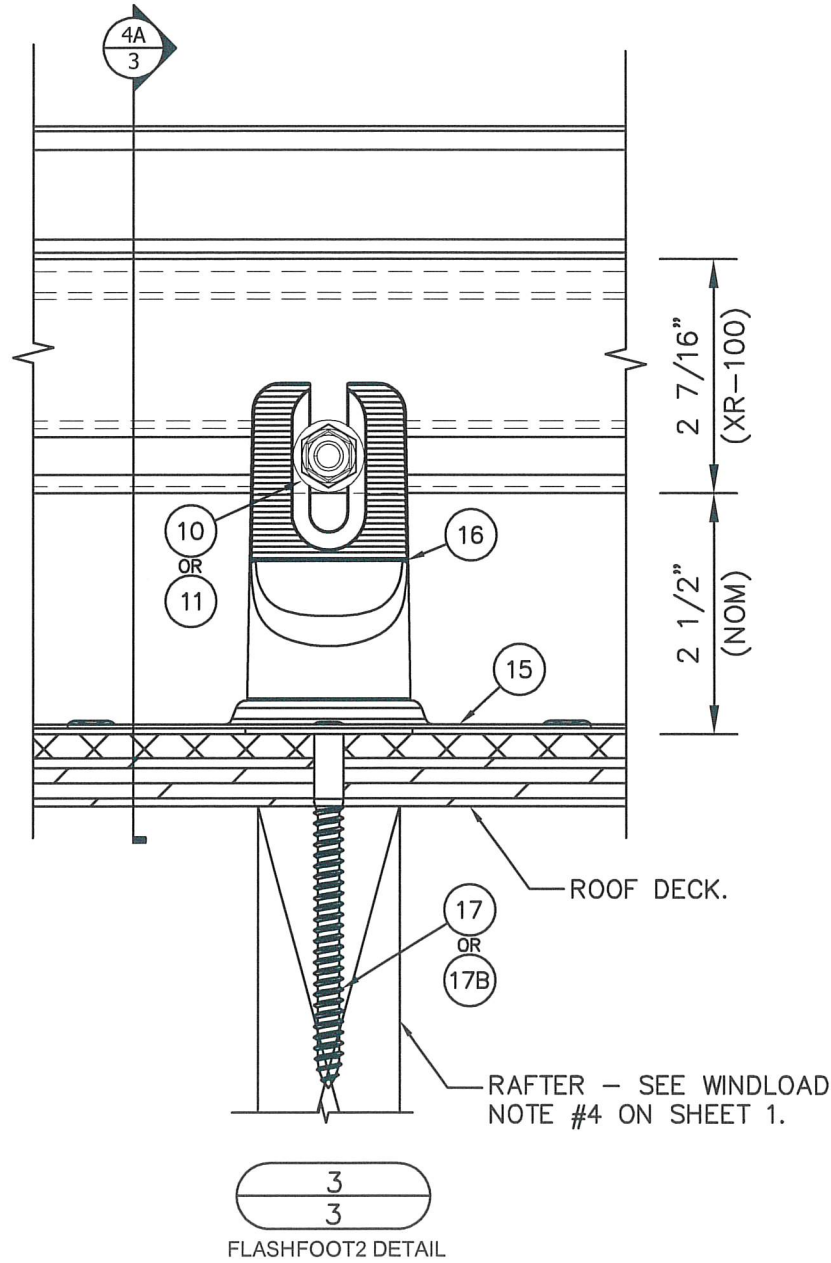
WOLTERS ENGINEERING
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15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982



28357 INDUSTRIAL BLVD.
HAYWARD, CA 94545

DWG:	XR-FF2
SHEET:	2/9

IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS



XR-100 RAIL IS SHOWN.
XR-10 AND XR-1000
RAILS ARE SIMILAR.



IRONRIDGE

DWG: **XR-FF2**

SHEET: **3/9**

28357 INDUSTRIAL BLVD.
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FL PE# 62354

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SEAL

APR 24 2025

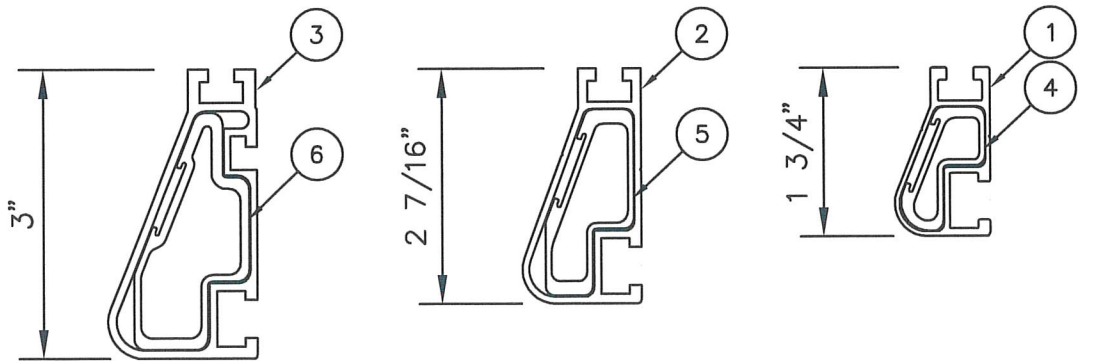
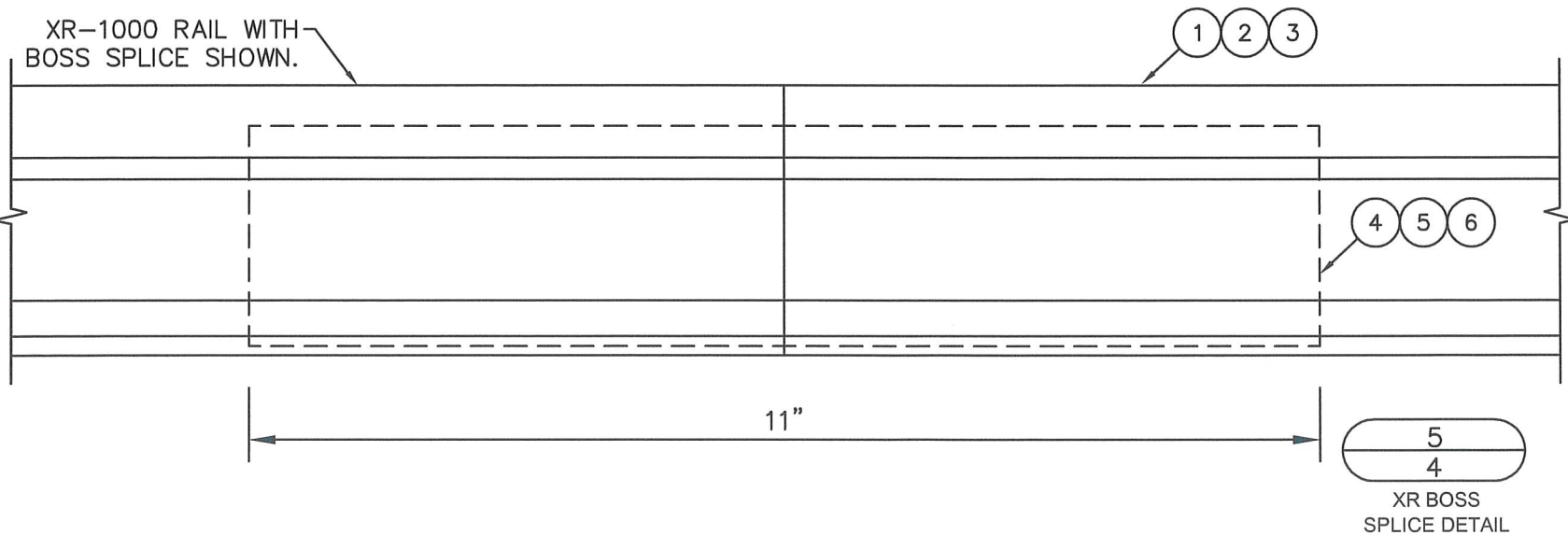
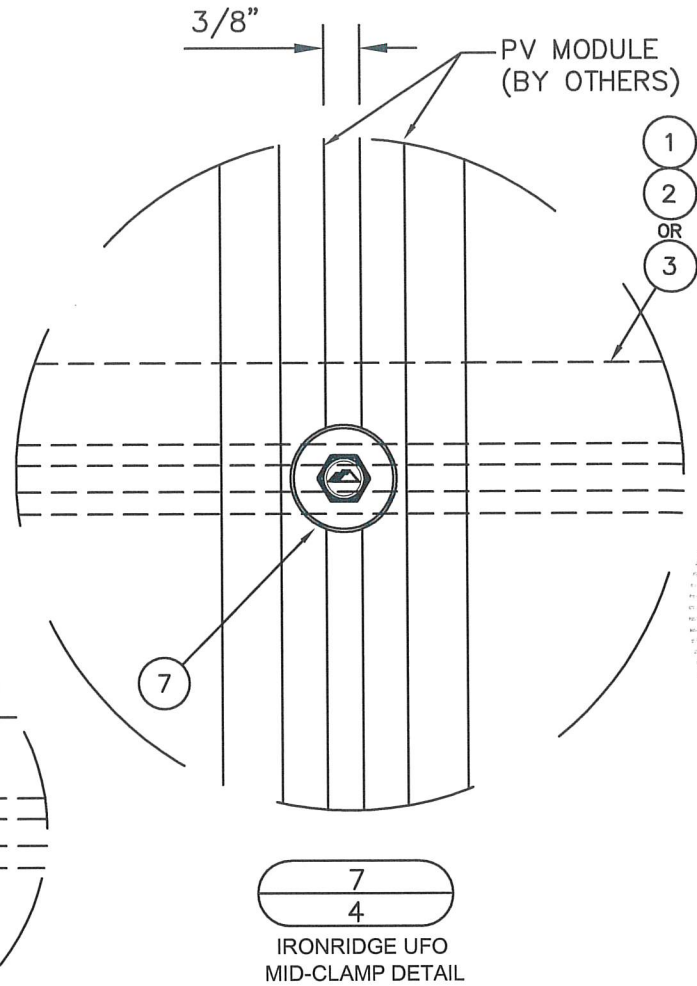
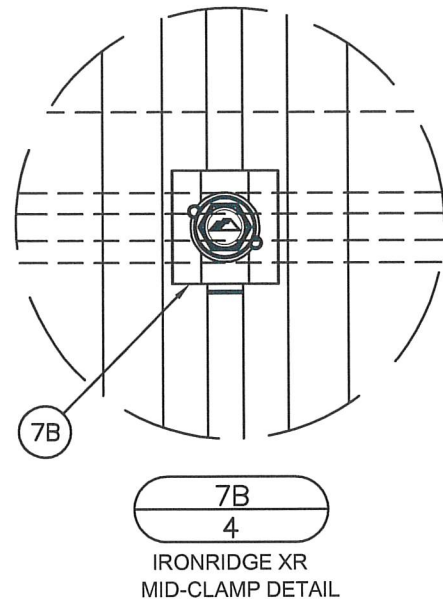
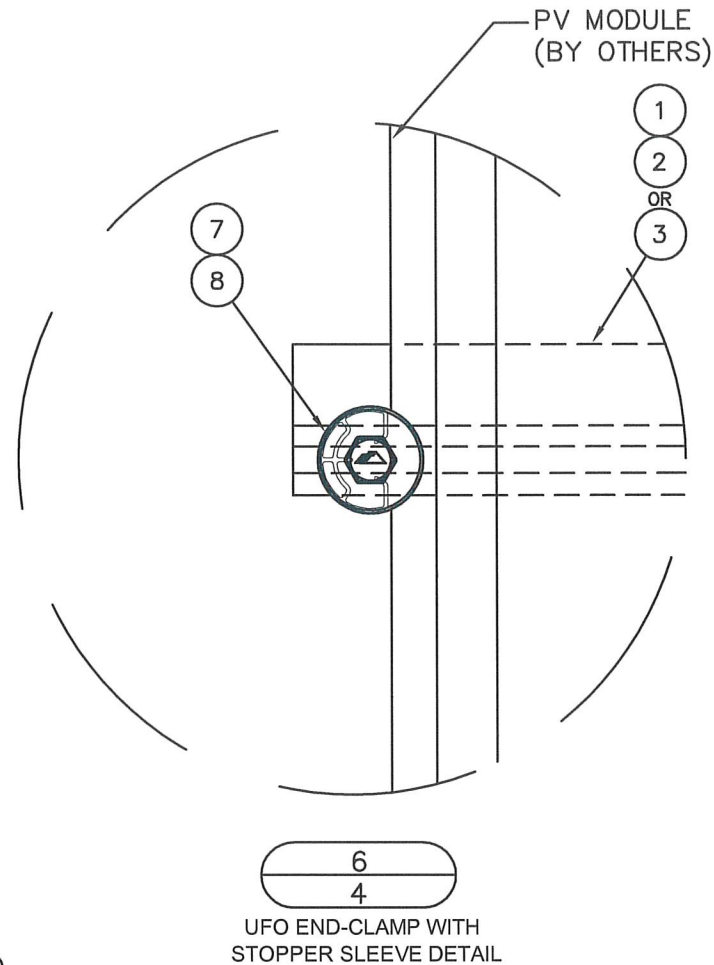
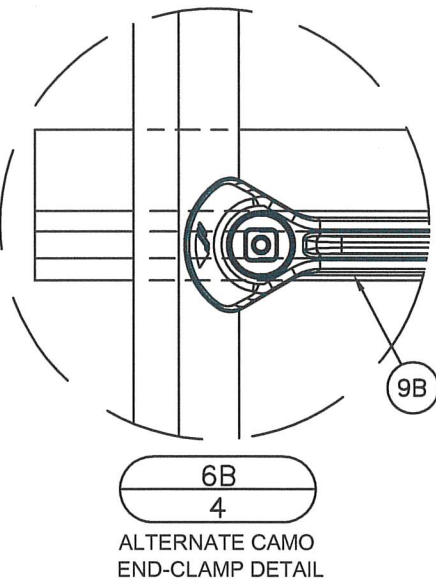
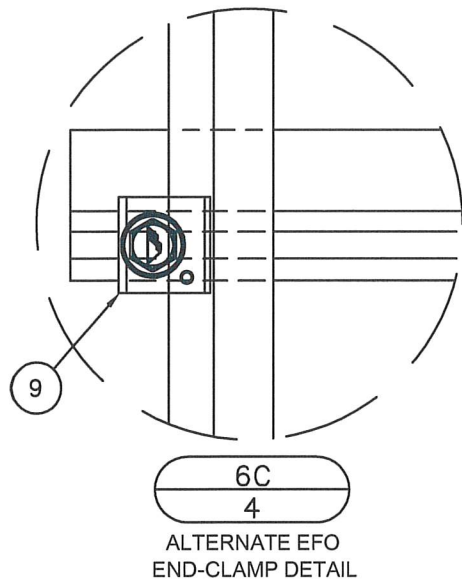
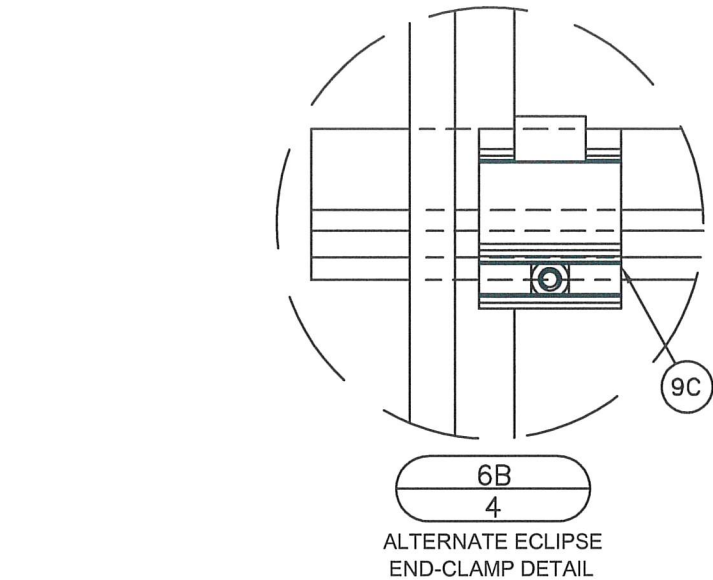
STATE OF FLORIDA

PROFESSIONAL ENGINEER

REVISION	DATE	REV.#	DATE
1	10/18/23	1	12/19/22
2	4/29/24	2	
3	4/24/25	3	

PRINTS ISSUED FOR

IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS



SPLICE MAY NOT BE
LOCATED IN A CANTILEVER.

REV.	DATE	REV. #	DATE
1	4/24/25	1	4/24/25
2	4/29/24	2	4/29/24
3	10/18/23	3	10/18/23
4	12/19/22	4	12/19/22

SEAL: [Signature] No. 62354

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

APR 24 2025

STATE OF FLORIDA
PROFESSIONAL ENGINEER

IRONRIDGE

28357 INDUSTRIAL BLVD.
HAYWARD, CA 94545

PHONE: (800) 227-9523
info@ironridge.com

DWG: **XR-FF2**

SHEET: **4/9**

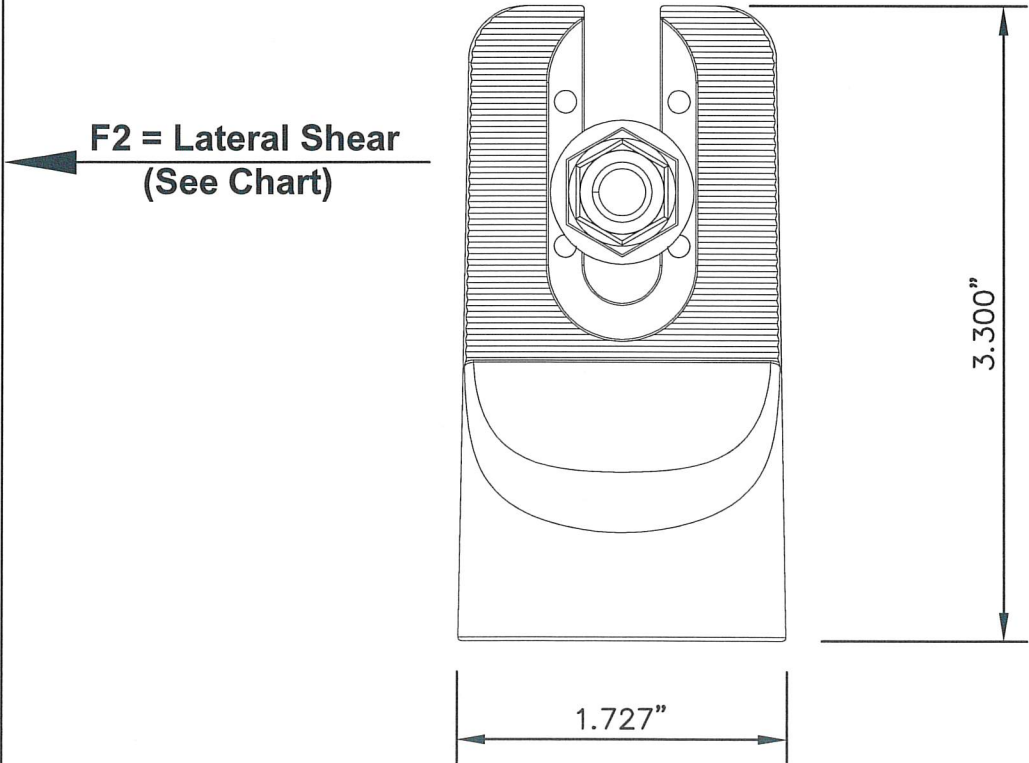
IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS

BILL OF MATERIALS- FlashFoot2		
#	DESCRIPTION	MATERIALS/NOTES
15	ASSY, FLASHING, MILL OR BLACK	6000 SERIES AL
16	ASSY, CAP, MILL OR BLACK	A300 SERIES AL
17	5/16" X 4 3/4" HWH LAG SCREW WITH EPDM WASHER	300 SERIES SS & EPDM
17B	5/16" X 4 1/4" HWH LAG SCREW WITH EPDM WASHER	300 SERIES SS & EPDM

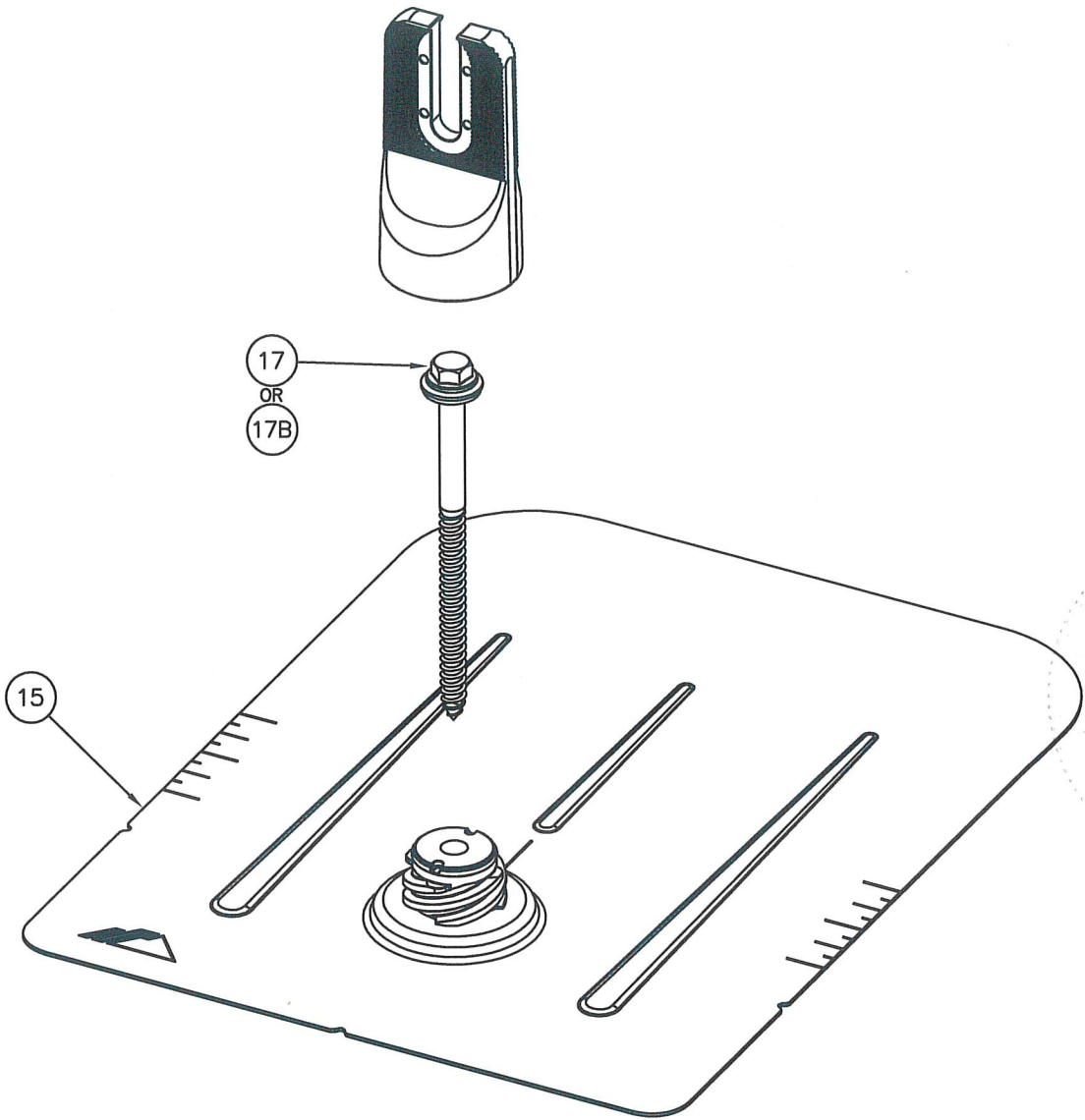
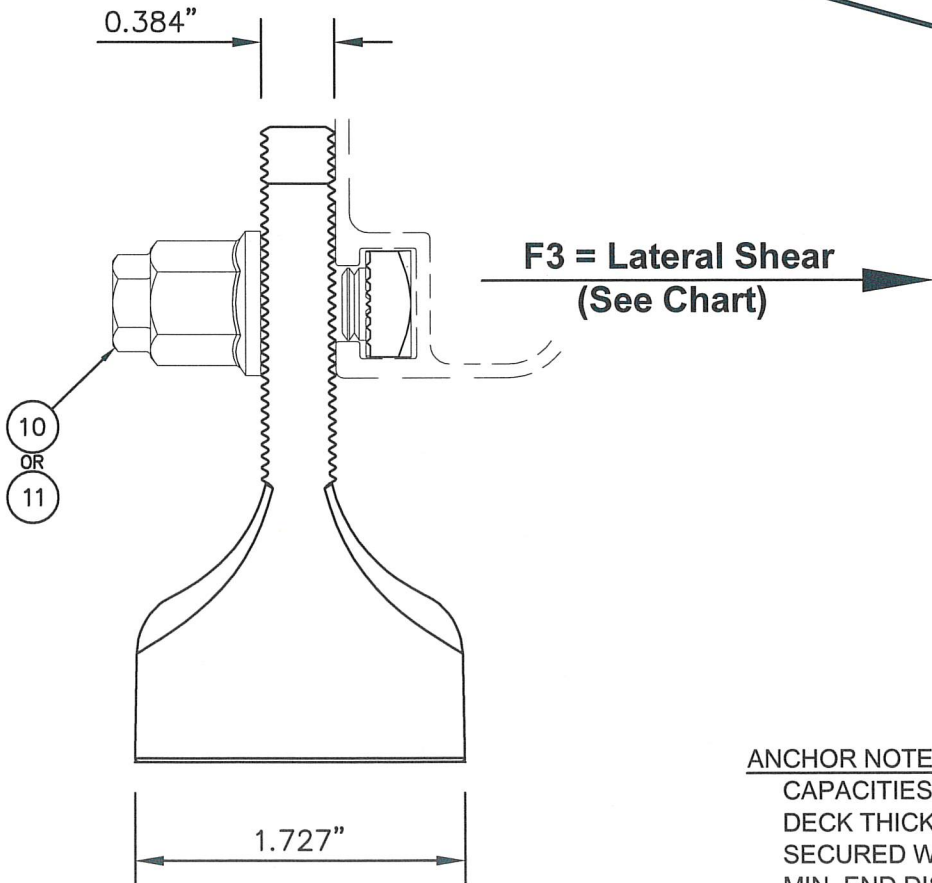
ALLOWABLE CAPACITY OF FF2 ANCHOR BASED ON RAFTER SPECIFIC GRAVITY		
WOOD SPECIFIC GRAVITY	ALLOWABLE UPLIFT CAPACITY (lb)	ALLOWABLE LATERAL CAPACITY F2 or F3 (lb)
0.42	732	364
0.46	839	380
0.5	951	396
0.55	1097	416

SEE CHARTS ON SHEETS 1 AND 6 FOR
ALLOWABLE WINDLOADS BASED ON
RAFTER SPECIFIC GRAVITY.

Direct Tension/Uplift
(See Chart)



16



ANCHOR NOTES:
CAPACITIES APPLY TO RAFTER SIZES OF 2x4 OR GREATER,
DECK THICKNESS OF 7/16" OR GREATER, AND LAG BOLTS
SECURED WITHIN THE CENTER 1/3 OF RAFTER WITH 2 1/2"
MIN. END DISTANCE.

IRONRIDGE

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DWG: XR-FF2

SHEET: 5/9

SCOTT WOLTERS
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WOLTERS ENGINEERING
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SEAL: [Signature]
NO. 62354

STATE OF FLORIDA
APR 24 2025

REVISION
3 4/24/25
2 4/29/24
1 10/18/23
1ST SUBMITTAL
12/19/22

REV.# DATE

PRINTS ISSUED FOR

IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS

ALLOWABLE WINDLOADS (+/- psf)																							
TWO RAIL SYSTEM												THREE RAIL SYSTEM											
PANEL WIDTH	PANEL LENGTH	ANCHOR SPAN (L)	XR-10 RAIL			XR-100 RAIL			XR-1000 RAIL			PANEL WIDTH	PANEL LENGTH	ANCHOR SPAN (L)	XR-10 RAIL			XR-100 RAIL			XR-1000 RAIL		
			RAFTER SPECIFIC GRAVITY			RAFTER SPECIFIC GRAVITY			RAFTER SPECIFIC GRAVITY						RAFTER SPECIFIC GRAVITY			RAFTER SPECIFIC GRAVITY			RAFTER SPECIFIC GRAVITY		
			SG=0.42	SG=0.46	SG=0.50	SG=0.42	SG=0.46	SG=0.50	SG=0.42	SG=0.46	SG=0.50				SG=0.42	SG=0.46	SG=0.50	SG=0.42	SG=0.46	SG=0.50	SG=0.42	SG=0.46	SG=0.50
45	67 1/2	16	72.9	83.5	90	72.9	83.5	90	72.9	83.5	90	45	67 1/2	16	109.4	125.3	135.0	109.4	125.3	135.0	109.4	125.3	135.0
		24	65.4	65.4	65.4	72.9	83.5	90	72.9	83.5	90			24	98.1	98.1	98.1	109.4	125.3	135.0	109.4	125.3	135.0
		32	56.1	56.1	56.1	72.9	83.5	90	72.9	83.5	90			32	84.2	84.2	84.2	109.4	125.3	135.0	109.4	125.3	135.0
		36	49.9	49.9	49.9	69.4	79.5	90	69.4	79.5	90			36	74.9	74.9	74.9	104.1	119.3	135.0	104.1	119.3	135.0
		48	37.4	37.4	37.4	65.1	74.6	84.5	65.1	74.6	84.5			48	56.1	56.1	56.1	97.6	111.9	126.8	97.6	111.9	126.8
		64	28	28	28.1	45.9	52.5	59.6	45.9	52.5	59.6			64	42.0	42.0	42.2	68.9	78.8	89.4	68.9	78.8	89.4
		72	23.7	23.7	23.7	39.9	45.7	51.9	39.9	45.7	51.9			72	35.6	35.6	35.6	59.9	68.6	77.9	59.9	68.6	77.9
	80	16	61.5	70.5	75.9	61.5	70.5	75.9	61.5	70.5	75.9		80	16	92.3	105.8	113.9	92.3	105.8	113.9	92.3	105.8	113.9
		24	55.2	55.2	75.9	61.5	70.5	75.9	61.5	70.5	75.9			24	82.8	82.8	113.9	92.3	105.8	113.9	92.3	105.8	113.9
		32	47.3	47.3	47.3	61.5	70.5	75.9	61.5	70.5	75.9			32	71.0	71.0	71.0	92.3	105.8	113.9	92.3	105.8	113.9
		36	42.1	42.1	42.1	58.6	67.1	75.9	58.6	67.1	75.9			36	63.2	63.2	63.2	87.8	100.7	113.9	87.8	100.7	113.9
		48	31.5	31.5	31.6	54.9	62.9	71.3	54.9	62.9	71.3			48	47.3	47.3	47.4	82.4	94.4	107.0	82.4	94.4	107.0
		64	23.7	23.7	23.7	38.7	44.3	50.3	38.7	44.3	50.3			64	35.6	35.6	35.6	58.1	66.5	75.5	58.1	66.5	75.5
		72	20	20	20	33.7	38.6	43.8	33.7	38.6	43.8			72	30.0	30.0	30.0	50.6	57.9	65.7	50.6	57.9	65.7
	86	16	57.2	65.6	70.6	57.2	65.6	70.6	57.2	65.6	70.6		86	16	85.8	98.4	105.9	85.8	98.4	105.9	85.8	98.4	105.9
		24	51.3	51.3	51.3	57.2	65.6	70.6	57.2	65.6	70.6			24	77.0	77.0	77.0	85.8	98.4	105.9	85.8	98.4	105.9
		32	44	44	44	57.2	65.6	70.6	57.2	65.6	70.6			32	66.0	66.0	66.0	85.8	98.4	105.9	85.8	98.4	105.9
		36	39.1	39.1	39.1	54.5	62.4	70.6	54.5	62.4	70.6			36	58.7	58.7	58.7	81.7	93.6	105.9	81.7	93.7	105.9
		48	29.3	29.3	29.4	51.1	58.5	66.3	51.1	58.5	66.3			48	44.0	44.0	44.1	76.6	87.8	99.5	76.6	87.8	99.5
		64	22	22	22	36.0	41.2	46.8	36.0	41.2	46.8			64	33.0	33.0	33.0	54.0	61.8	70.2	54.0	61.8	70.2
		72	18.6	18.6	18.6	31.3	35.9	40.7	31.3	35.9	40.7			72	27.9	27.9	27.9	47.0	53.9	61.1	47.0	53.9	61.1
	92 1/2	16	53.2	61	65.7	53.2	61	65.7	53.2	61.0	65.7		92 1/2	16	79.8	91.5	98.6	79.8	91.5	98.6	79.8	91.5	98.6
		24	47.7	47.7	47.7	53.2	61	65.7	53.2	61.0	65.7			24	71.6	71.6	71.6	79.8	91.5	98.6	79.8	91.5	98.6
		32	40.9	40.9	40.9	53.2	61	65.7	53.2	61.0	65.7			32	61.4	61.4	61.4	79.8	91.5	98.6	79.8	91.5	98.6
		36	36.4	36.4	36.4	50.6	58	65.7	50.6	58.0	65.7			36	54.6	54.6	54.6	76.0	87.0	98.6	76.0	87.1	98.6
		48	27.3	27.3	27.3	47.5	52.4	61.9	47.5	54.4	61.9			48	41.0	41.0	41.0	71.2	78.6	92.9	71.2	81.6	92.9
		64	20.5	20.5	20.5	33.4	38.3	43.5	33.4	38.3	43.5			64	30.8	30.8	30.8	50.1	57.5	65.3	50.1	57.5	65.3
		72	17.3	17.3	17.3	29.1	33.4	37.8	29.1	33.4	37.8			72	26.0	26.0	26.0	43.7	50.1	56.7	43.7	50.1	56.7
LANDSCAPE LAYOUT:																							
45	92 1/2	16	53.2	61	65.7	53.2	61	65.7	53.2	61	65.7	45	92 1/2	16	79.8	91.5	98.6	79.8	91.5	98.6	79.8	91.5	98.6
		24	50.6	52.4	52.9	53.2	61	65.7	53.2	61	65.7			24	75.9	78.6	79.4	79.8	91.5	98.6	79.8	91.5	98.6
		32	40.8	40.8	40.8	53.2	61	65.7	53.2	61	65.7			32	61.2	61.2	61.2	79.8	91.5	98.55	79.8	91.5	98.6
		36	36	36	36	50.6	58	65.7	50.6	58	65.7			36	54.0	54	54	76.0	87	98.55	76.0	87.0	98.6
		48	24.2	24.2	24.2	50.6	55	55	50.6	58	65.7			48	36.3	36.3	36.3	76.0	82.5	82.5	76.0	87.0	98.6
		64	20.5	20.5	20.5	46.9	46.9	46.9	50.6	58	65.7			64	30.8	30.75	30.75	70.4	70.35	70.35	76.0	87.0	98.6
		72	18.2	18.2	18.2	41.7	41.7	41.7	50.6	58	65.7			72	27.3	27.3	27.3	62.6	62.6	62.6	76.0	87.0	98.6

SEAL: 

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982



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info@ironridge.com
28357 INDUSTRIAL BLVD.
HAYWARD, CA 94545

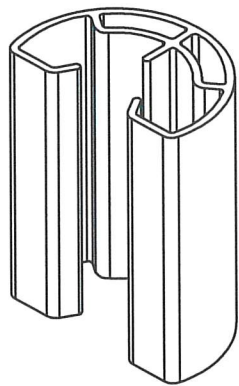
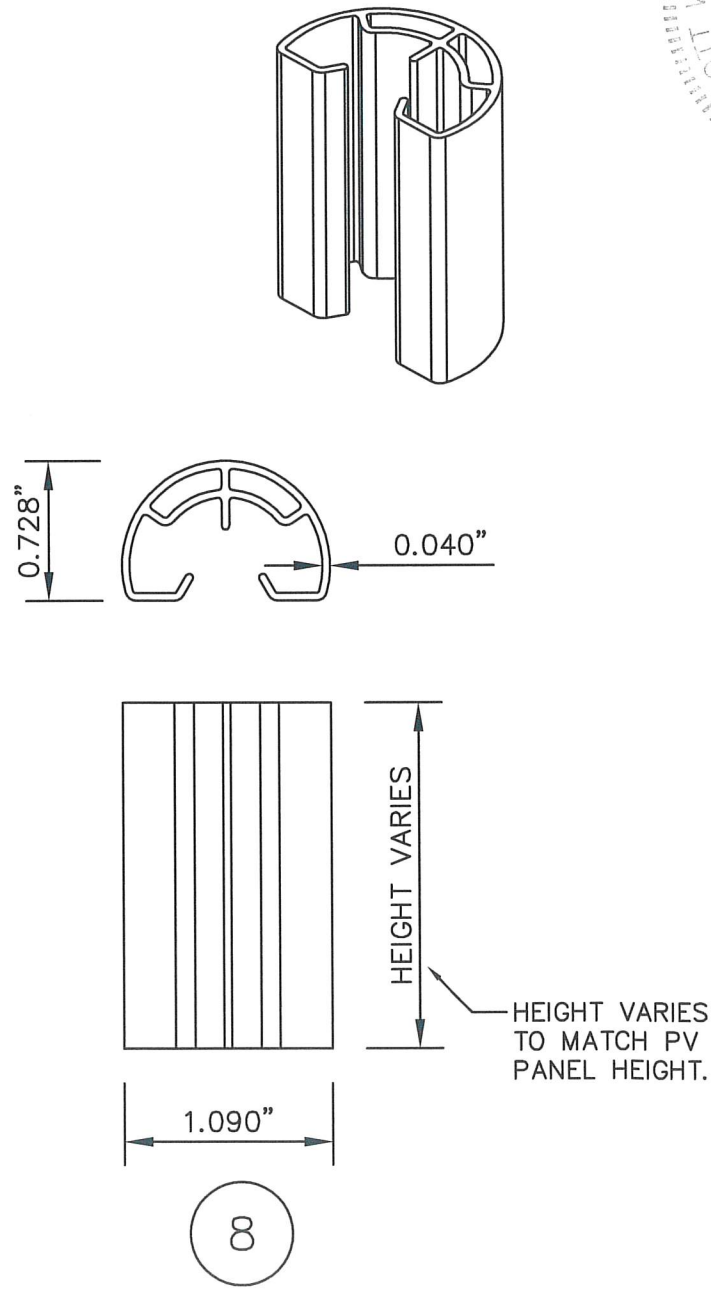
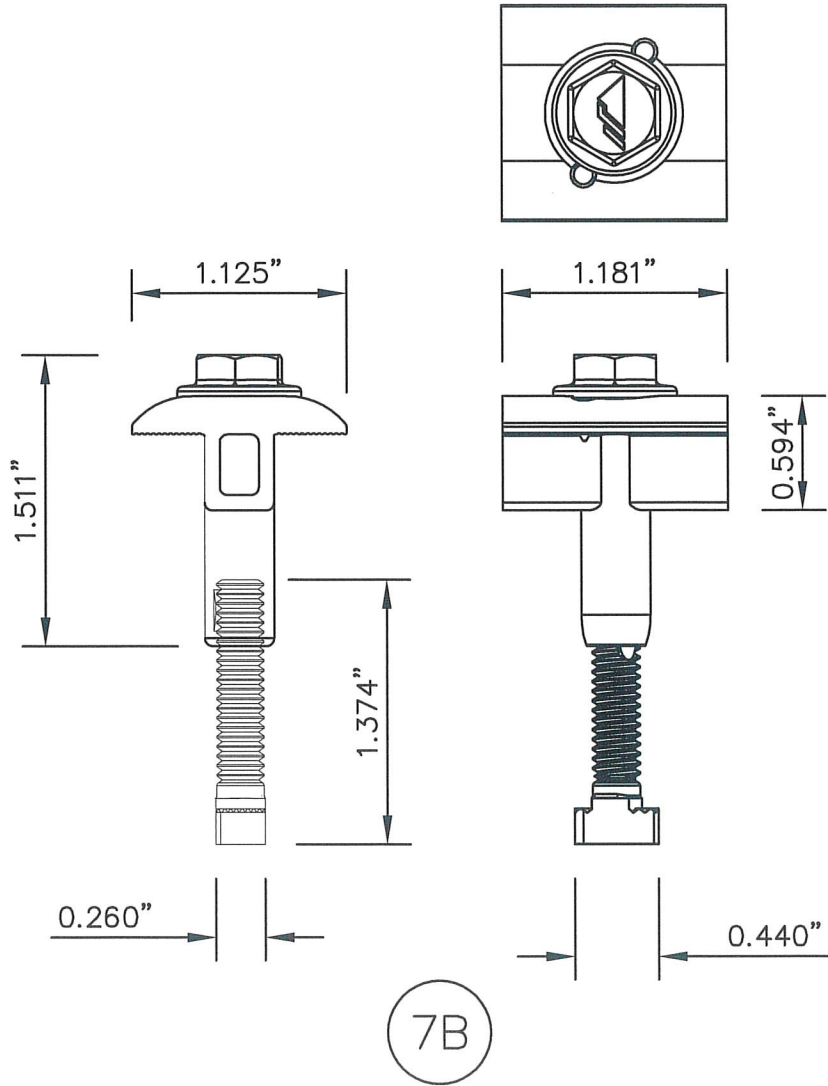
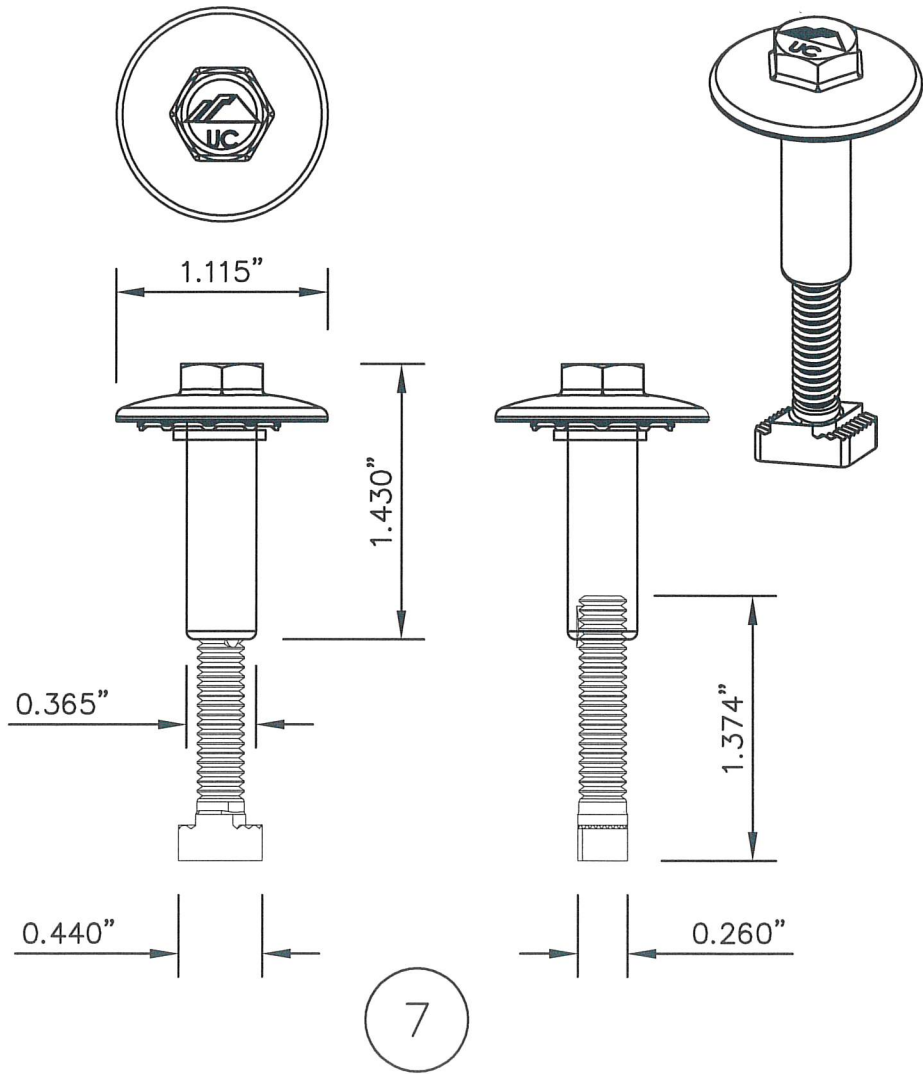
DWG: **XR-FF2**
SHEET: **6/9**

IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS

BILL OF MATERIALS- XR System		
#	DESCRIPTION	MATERIALS/NOTES
1	XR-10 RAIL	6000 SERIES AL
2	XR-100 RAIL	6000 SERIES AL
3	XR-1000 RAIL	6000 SERIES AL
4	XR-10 BOSS SPLICE	6000 SERIES AL & 300 SERIES SS
5	XR-100 BOSS SPLICE	6000 SERIES AL & 300 SERIES SS
6	XR-1000 BOSS SPLICE	6000 SERIES AL & 300 SERIES SS
7	UFO UNIVERSAL MODULE CLAMP	300 SERIES SS
7B	XR MID CLAMP (30-40MM), US PRODUCTION	6000 SERIES AL & 300 SERIES SS
8	STOPPER SLEEVE	6000 SERIES AL
9	EFO UNIVERSAL END CLAMP	300 SERIES AL & 300 SERIES SS
9B	CAMO HIDDEN END CAM	300 SERIES AL & 300 SERIES SS
9C	ECLIPSE HIDDEN END CLAMP ASSEMBLY	6000 SERIES AL & 300 SERIES SS
10	3/8" X 1" SQUARE BOLT BONDING HARDWARE	300 SERIES SS
11	3/8" X 1" T-BOLT BONDING HARDWARE	300 SERIES SS
12	XR-10 RAIL END CAP (OPTIONAL)	POLYMERIC
13	XR-100 RAIL END CAP (OPTIONAL)	POLYMERIC
14	XR-1000 RAIL END CAP (OPTIONAL)	POLYMERIC

FOR 6000 SERIES EXTRUSIONS F_{UT}=38 ksi min, F_y=34 ksi min.

FOR 300 SERIES STAINLESS STEEL F_y=65 ksi min.



IRONRIDGE

28357 INDUSTRIAL BLVD.
HAYWARD, CA 94545

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SHEET: 7/9

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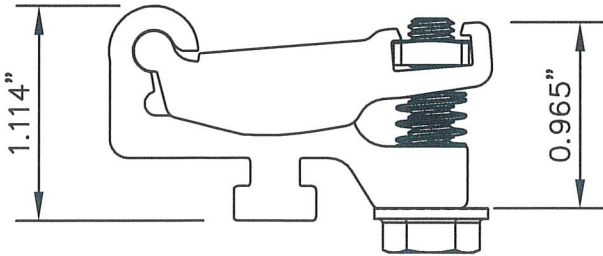
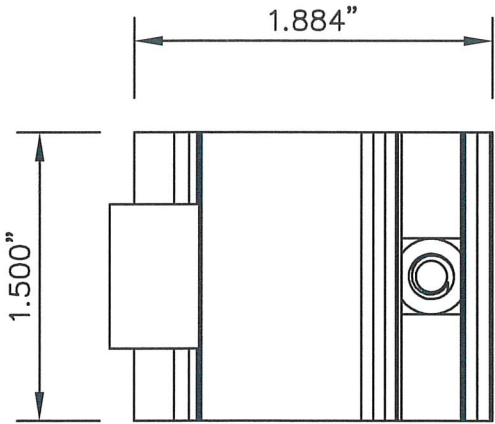
SCOTT WOLTERS
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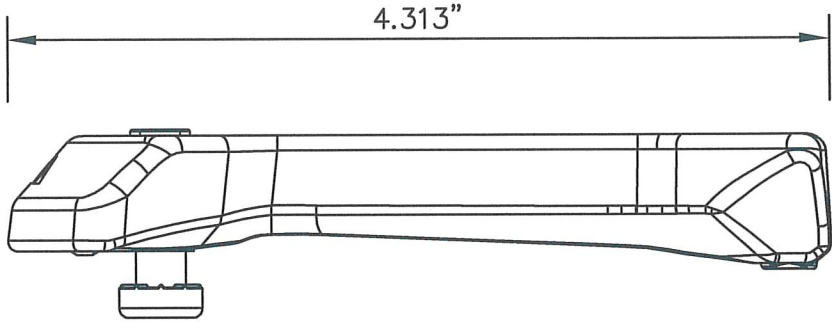
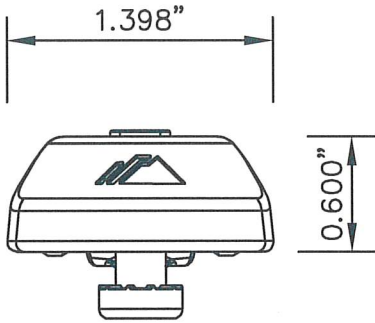
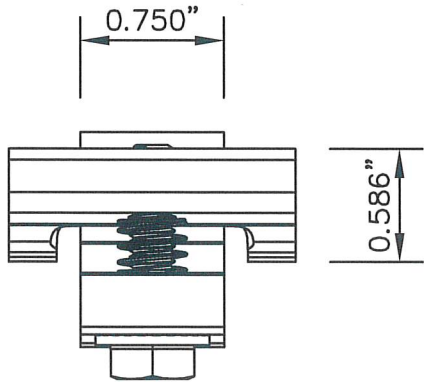
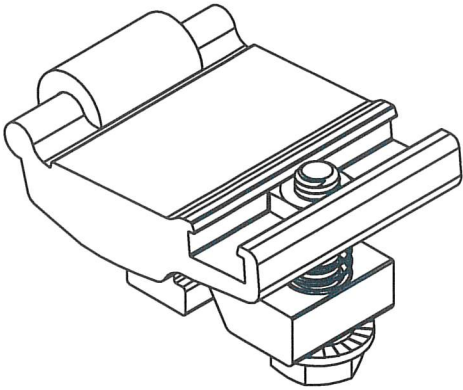
SEAL: [Signature]
NO 62354
STATE OF FLORIDA
APR 24 2025
PROFESSIONAL ENGINEER

REV# DATE
3 4/24/25
2 4/29/24
1 10/18/23
1ST SUBMITTAL 12/19/22
PRINTS ISSUED FOR

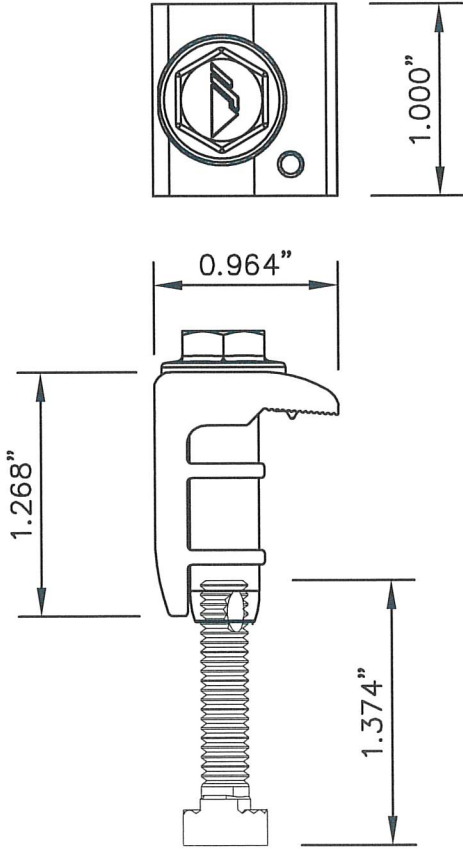
IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS



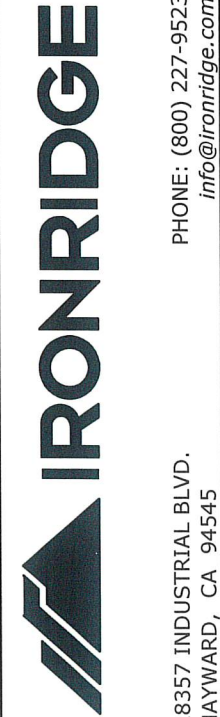
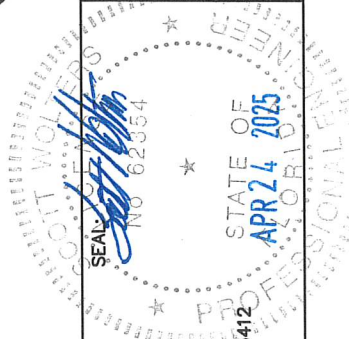
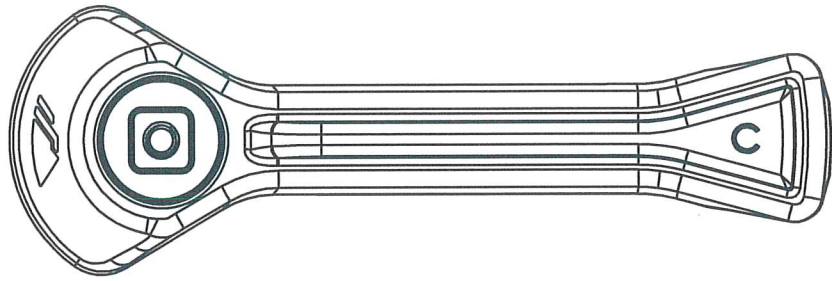
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9B



9

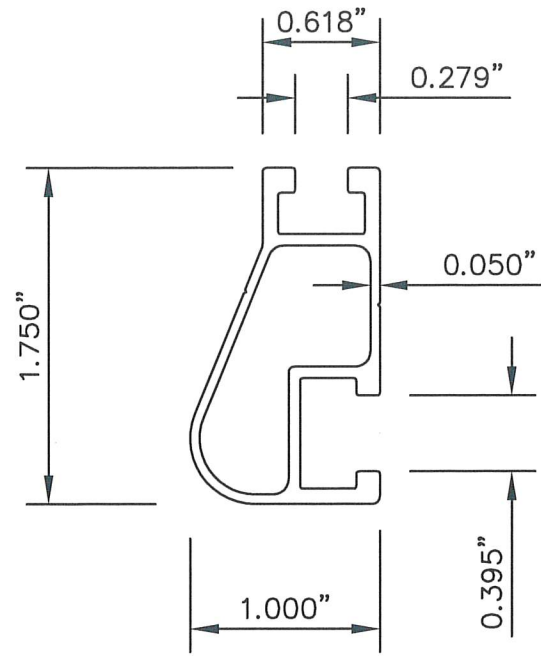


28357 INDUSTRIAL BLVD.
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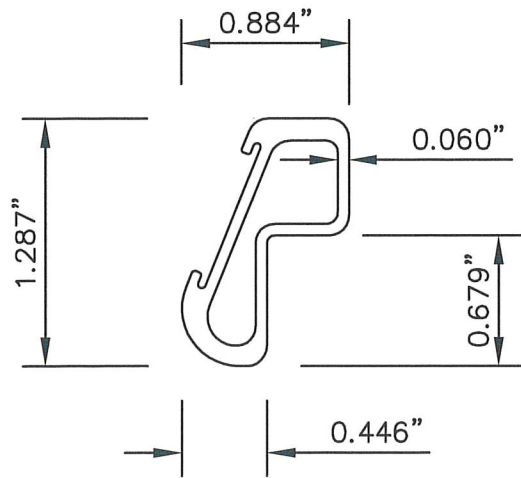
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

REVISION	REV#	DATE
2023 CODE UPDATE	1	10/18/23
2023 CODE UPDATE	2	4/29/24
2023 CODE UPDATE	3	4/24/25
1ST SUBMITTAL	1	12/19/22
PRINTS ISSUED FOR	REV#	DATE

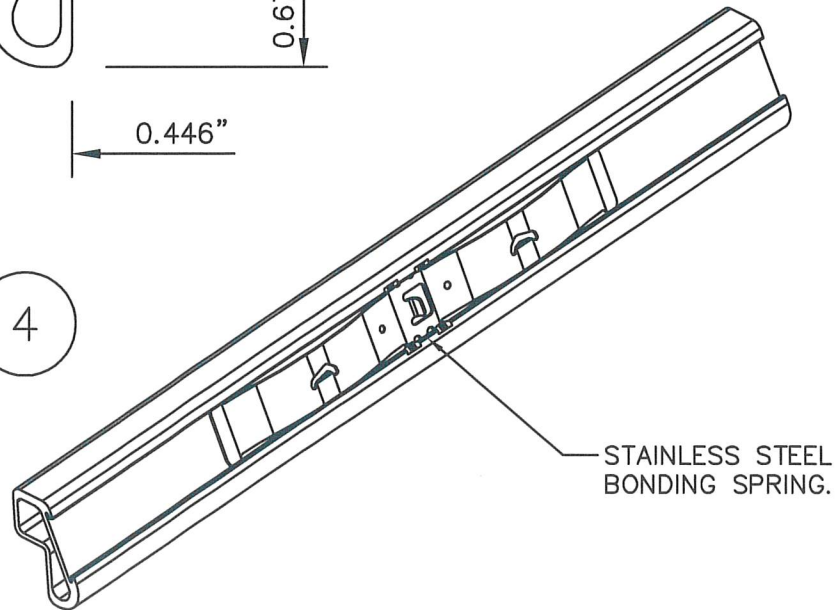
IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS



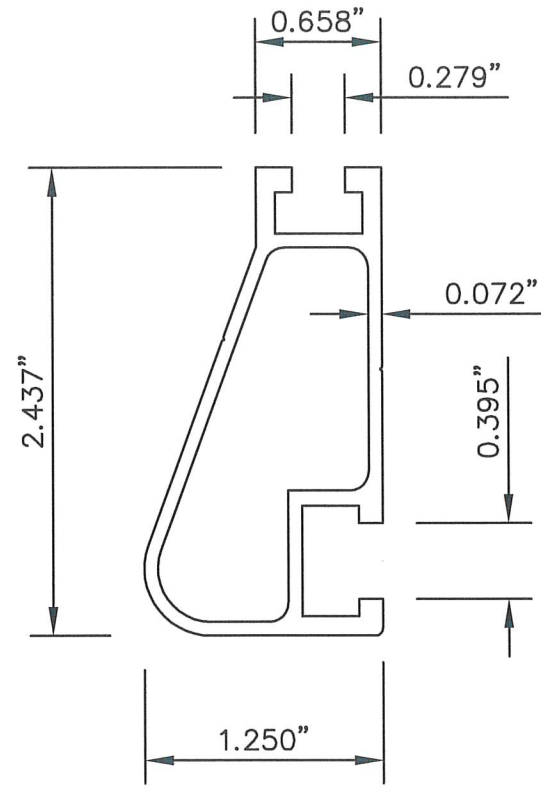
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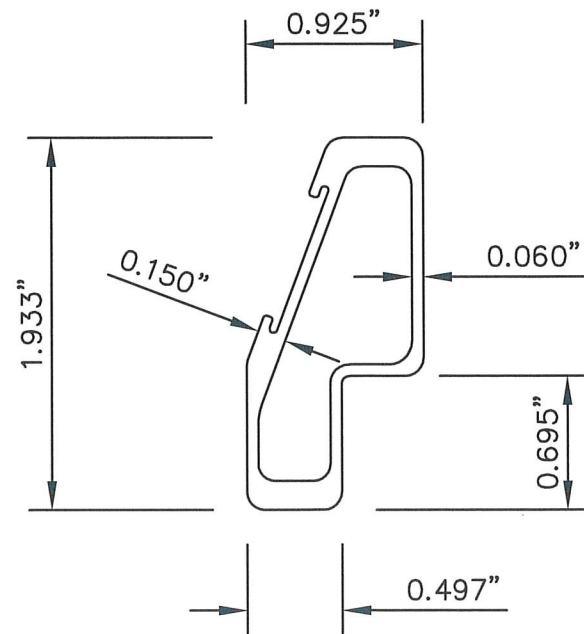
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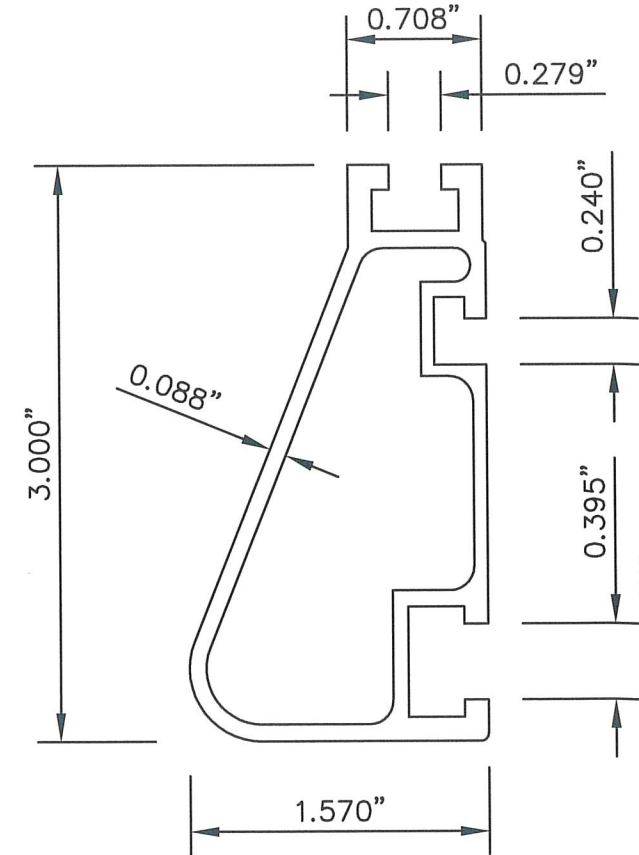
—STAINLESS STEEL
BONDING SPRING.



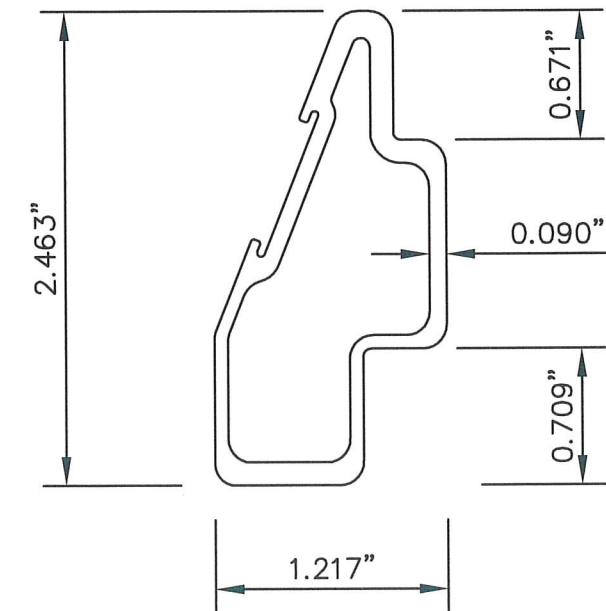
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5



2



6