

QUICKMOUNT CLICKFIT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH CLICKFIT SMART FOOT ROOF ATTACHMENT

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 QUICKMOUNT CLICKFIT 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.

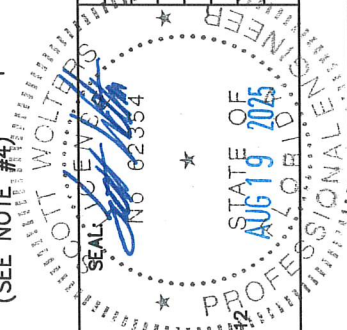
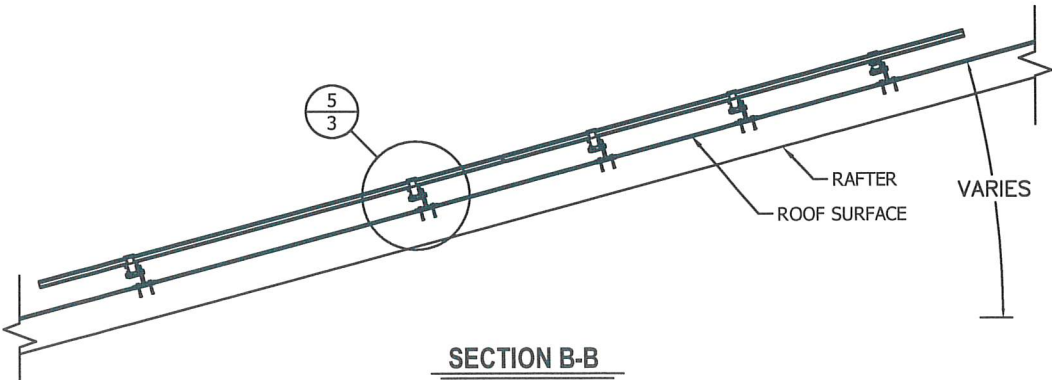
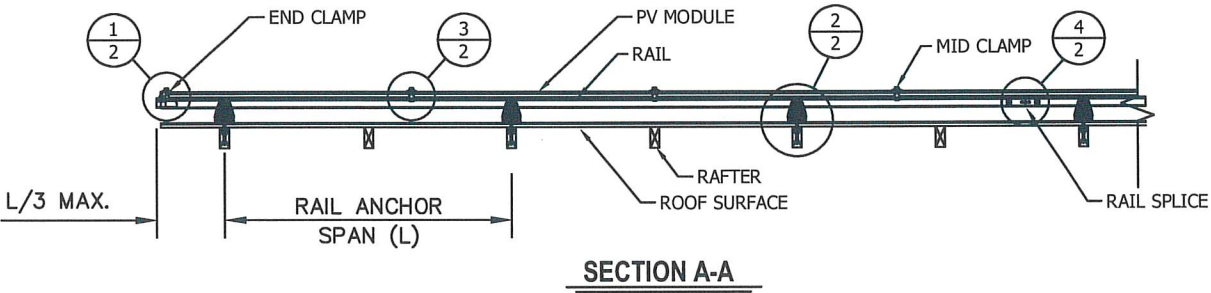
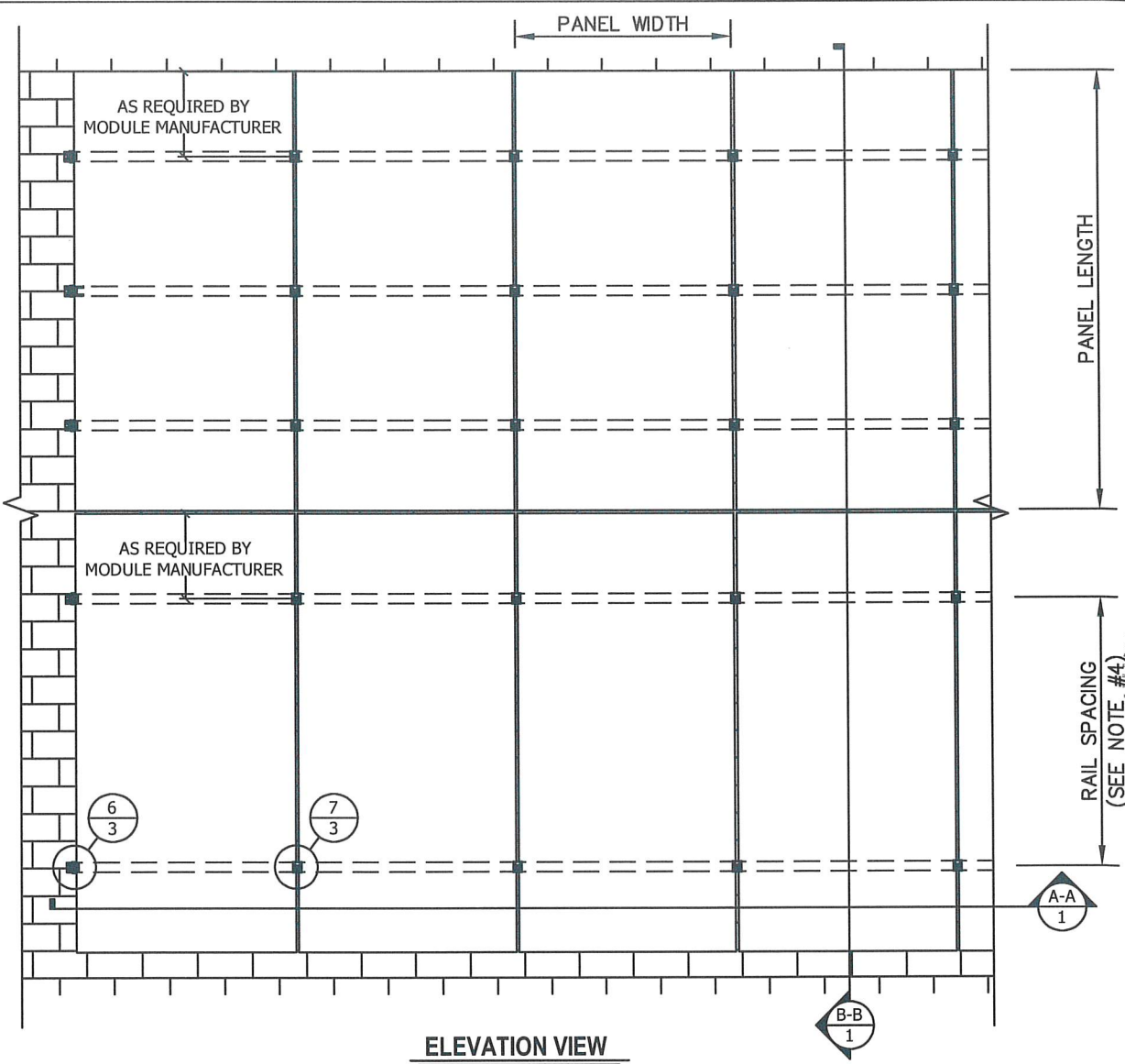
WINDLOAD NOTES:

- 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 WINDLOADS (ASD) MAY NOT EXCEED THE ALLOWABLE WINDLOADS SHOWN IN THE CHARTS ON THIS SHEET OR SHEET 5.
- 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.=0.42 MIN. SEE SHEET 5 FOR ALLOWABLE FASTENER PATTERNS, AND FOR ALLOWABLE LOADS FOR FASTENING INTO THE DECK ONLY.

ALLOWABLE WINDLOADS							
TWO RAIL SYSTEM				THREE RAIL SYSTEM			
FASTENER PATTERN 1 or 2				FASTENER PATTERN 1 or 2			
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	ALLOWABLE WINDLOAD (+/- psf)	PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	ALLOWABLE WINDLOAD (+/- psf)
45	67 1/2	16	100	45	67 1/2	16	150.0
		24	100			24	150.0
		32	88.7			32	133.1
		36	78.9			36	118.4
		48	59.2			48	88.8
		64	44.4			64	66.6
	80	72	37.5			72	56.3
		16	84.3		80	16	126.5
		24	84.3			24	126.5
		32	74.9			32	112.4
		36	66.7			36	100.1
		48	49.9			48	74.9
	86	64	37.4			64	56.1
		72	31.6			72	47.4
		16	78.5		86	16	117.8
		24	78.5			24	117.8
		32	69.7			32	104.6
		36	61.9			36	92.9
	92 1/2	48	46.4			48	69.6
		64	34.8			64	52.2
		72	29.4			72	44.1
		16	72.9		92 1/2	16	109.4
		24	72.9			24	109.4
		32	64.8			32	97.2
	LANDSCAPE LAYOUT:	36	56.7			36	86.4
		48	39.1			48	64.8
		64	32.4			64	48.6
		72	28.8			72	43.2

THREE RAIL SYSTEM:

TWO RAIL SYSTEM:



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WALTERS ENGINEERING
(COA# 27194)
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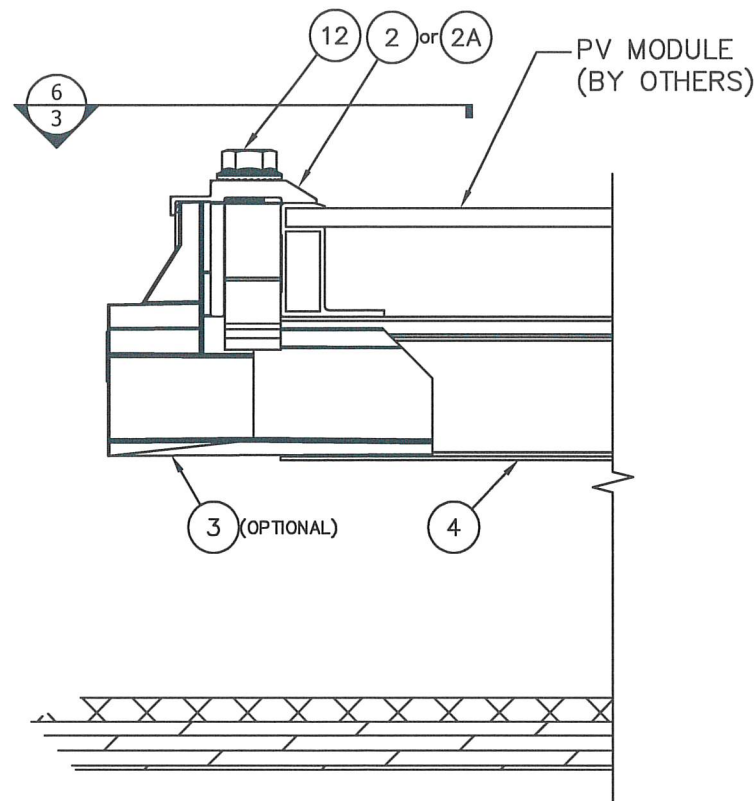


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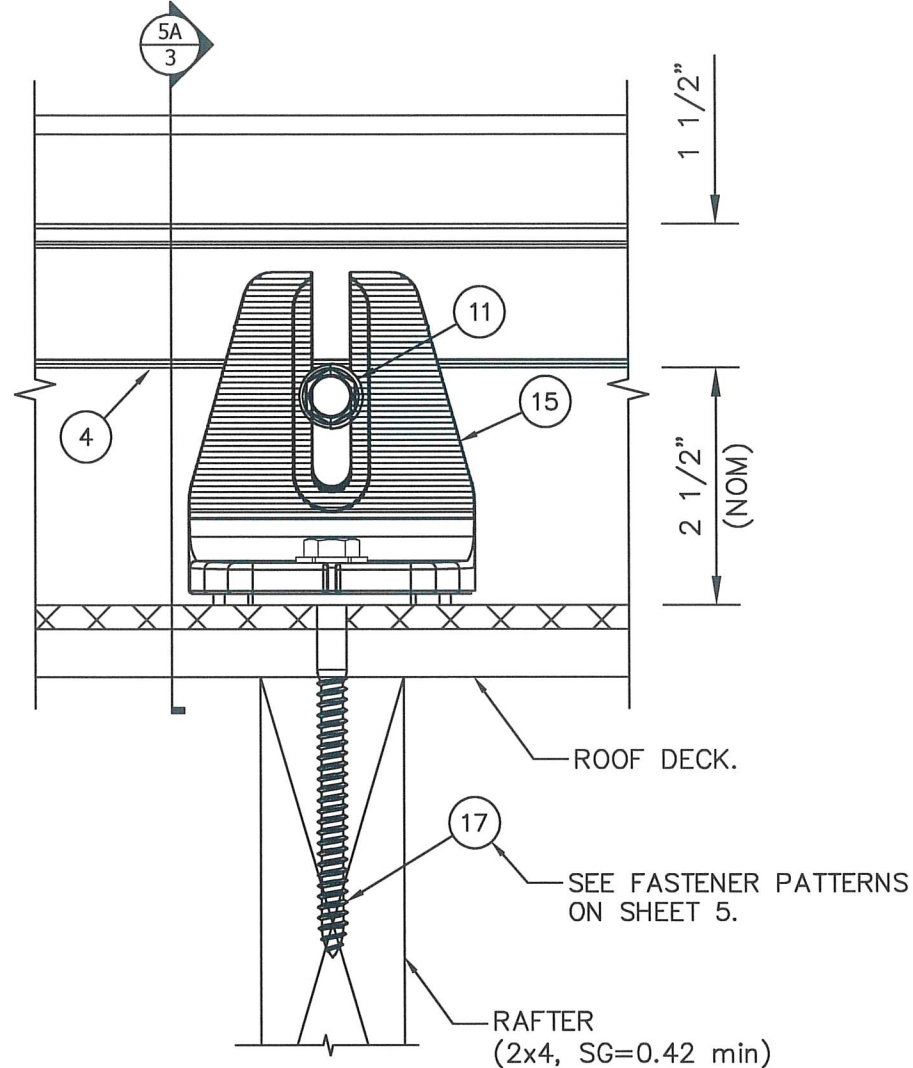
DWG: **IRCF-SF**
SHEET: **1/7**

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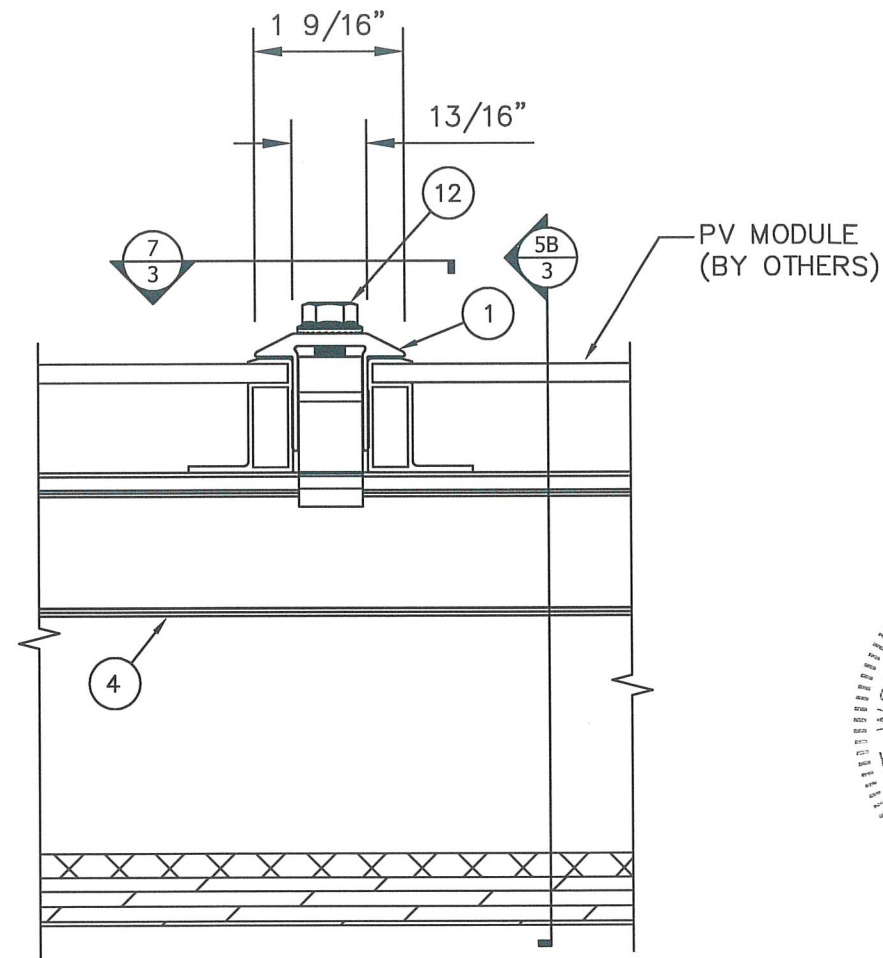
QUICKMOUNT CLICKFIT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH CLICKFIT SMART FOOT ROOF ATTACHMENT



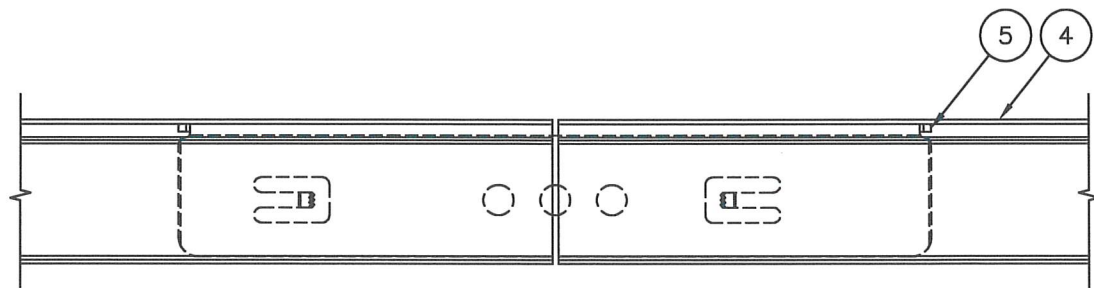
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END-CLAMP DETAIL



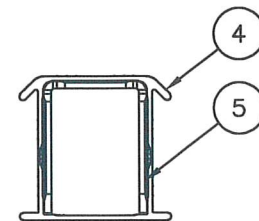
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SMART-FOOT DETAIL



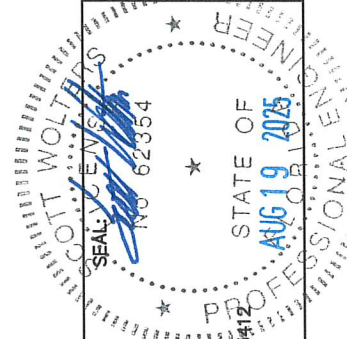
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2
MID-CLAMP DETAIL



4
2
SPLICE DETAIL



SPLICE LOCATIONS:
SPLICE LOCATIONS MAY NOT BE INSTALLED
IN THE FOLLOWING LOCATIONS:
A. IN A CANTILEVER.
B. WITHIN THE MIDDLE 1/4 OF AN ANCHOR-
TO-ANCHOR SPAN OF THE RAIL.
C. WITHIN 3" OF A ROOF ATTACHMENT.

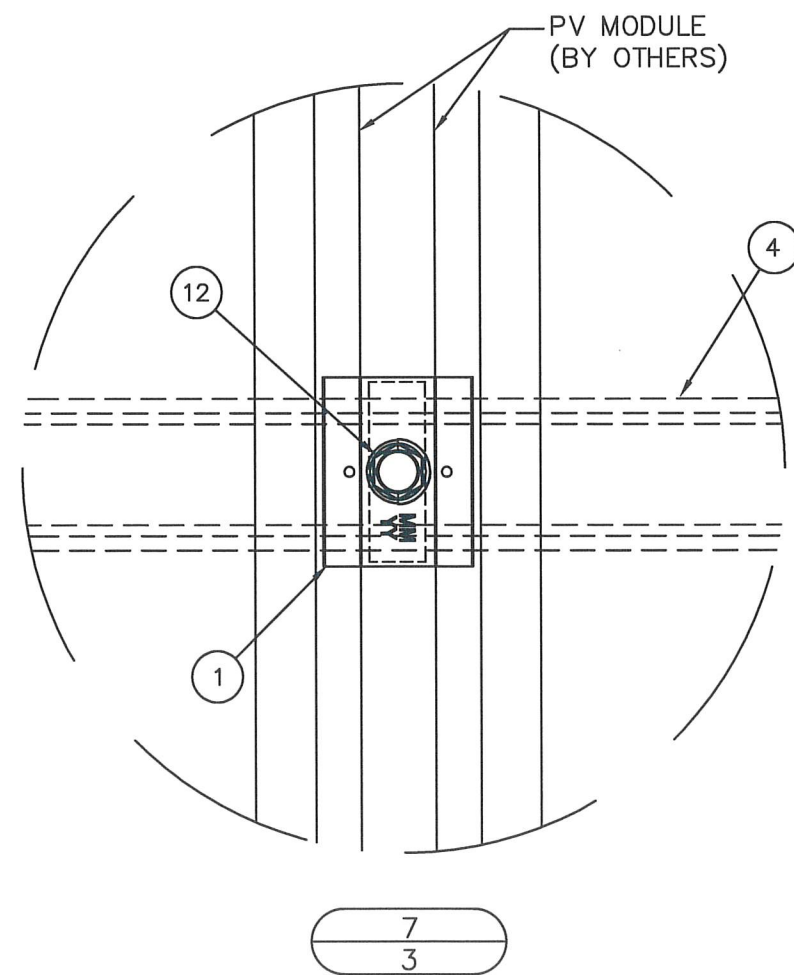
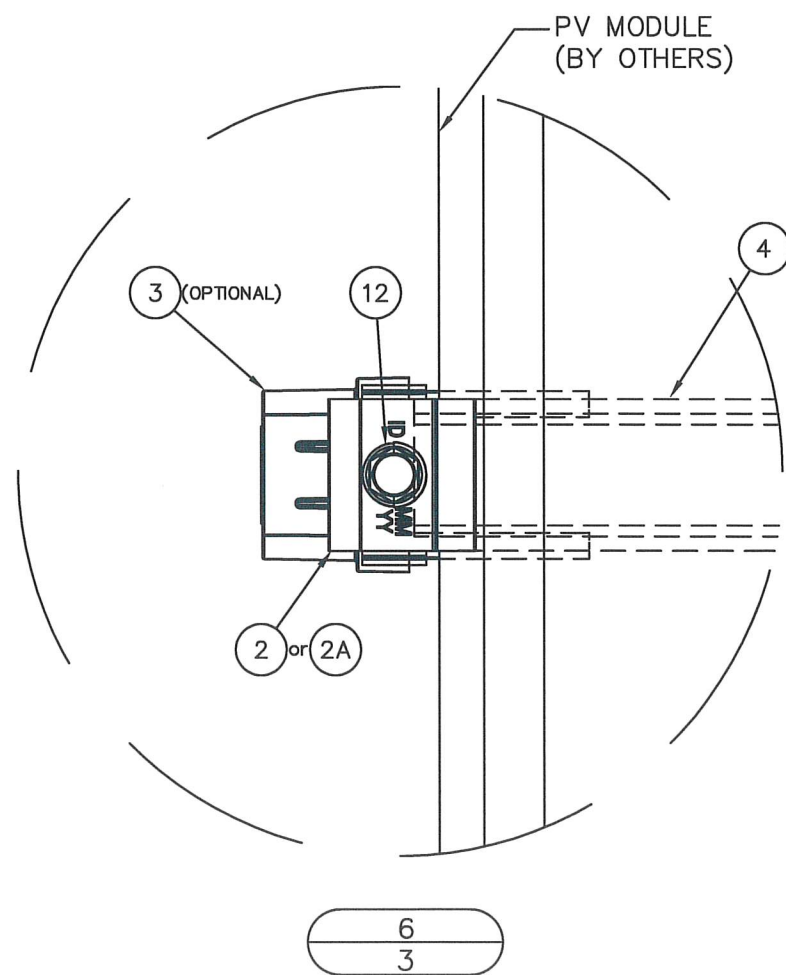
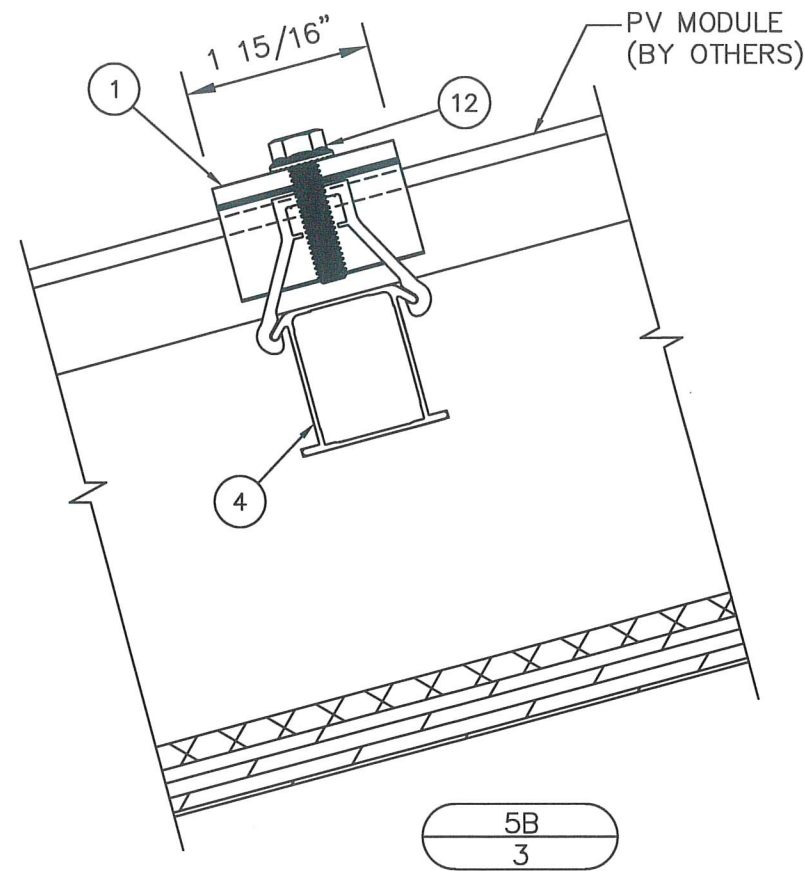
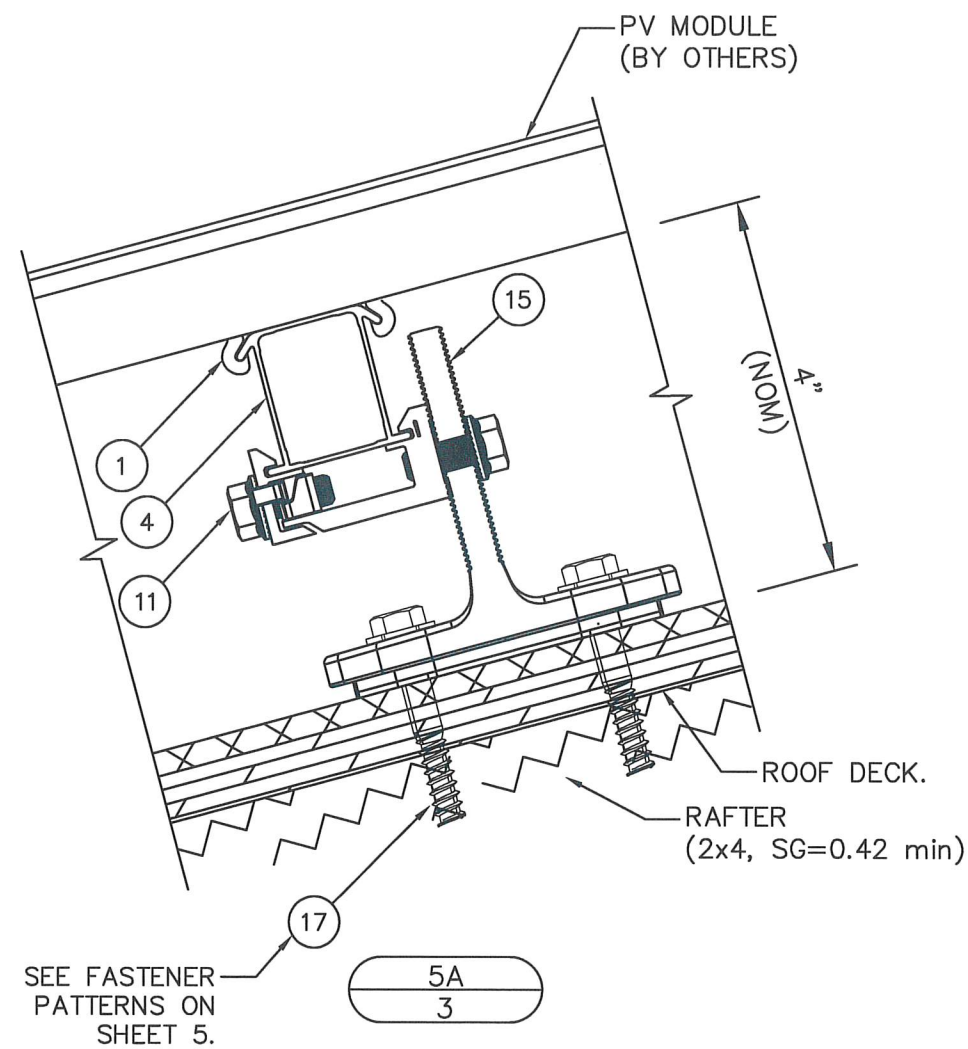


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DATE	8/19/25
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DWG: **IRCF-SF**
SHEET: **3/7**

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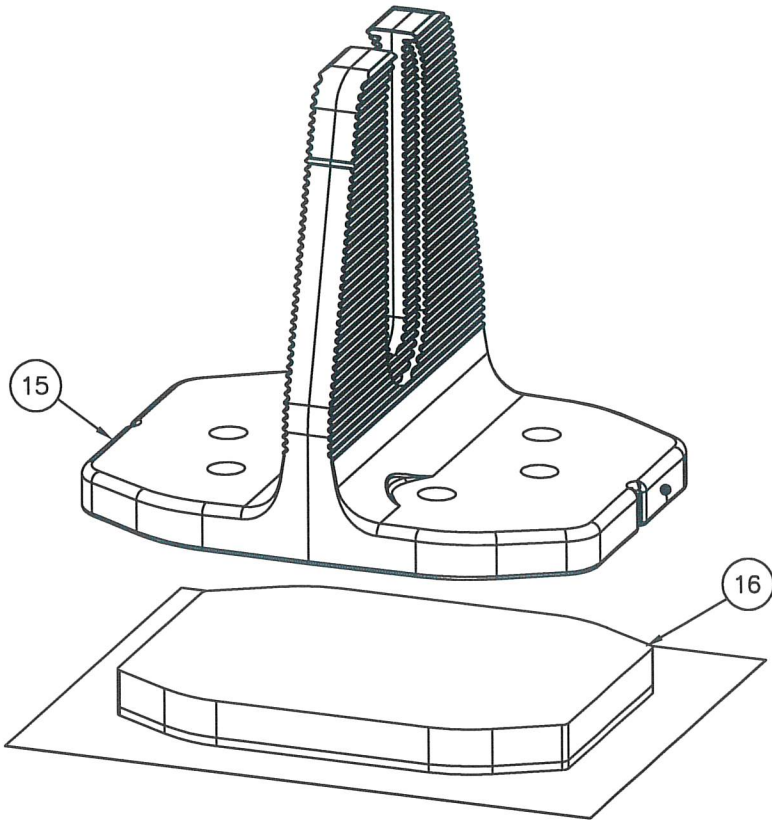
STATE OF FLORIDA
AUG 19 2025
PROFESSIONAL ENGINEER
SEAL: [Signature]
No. 62354

REV.#	DATE	PRINTS ISSUED FOR
1	8/19/25	1ST SUBMITTAL

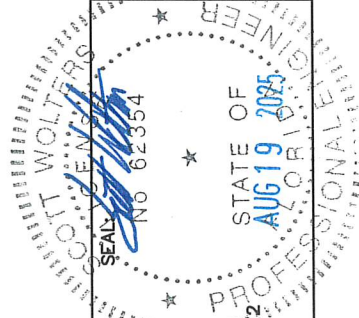
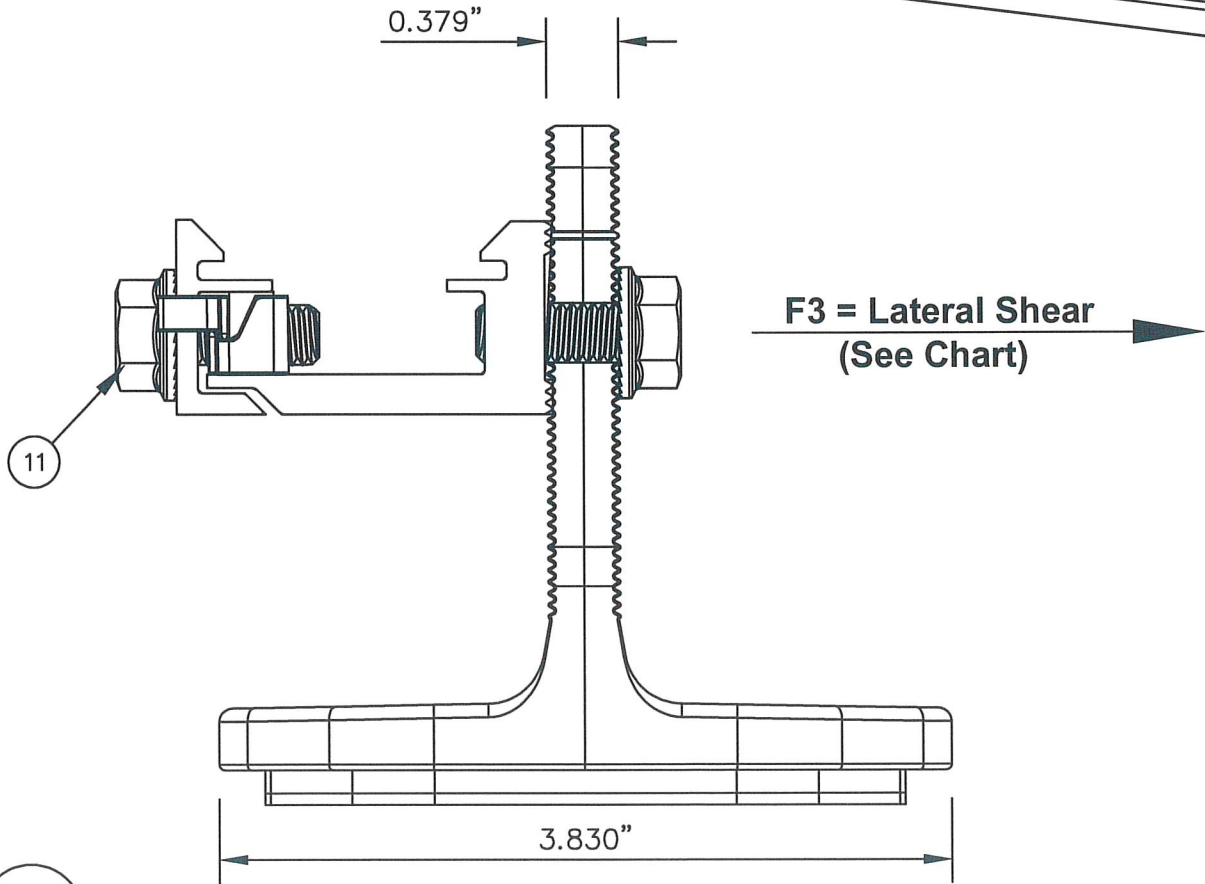
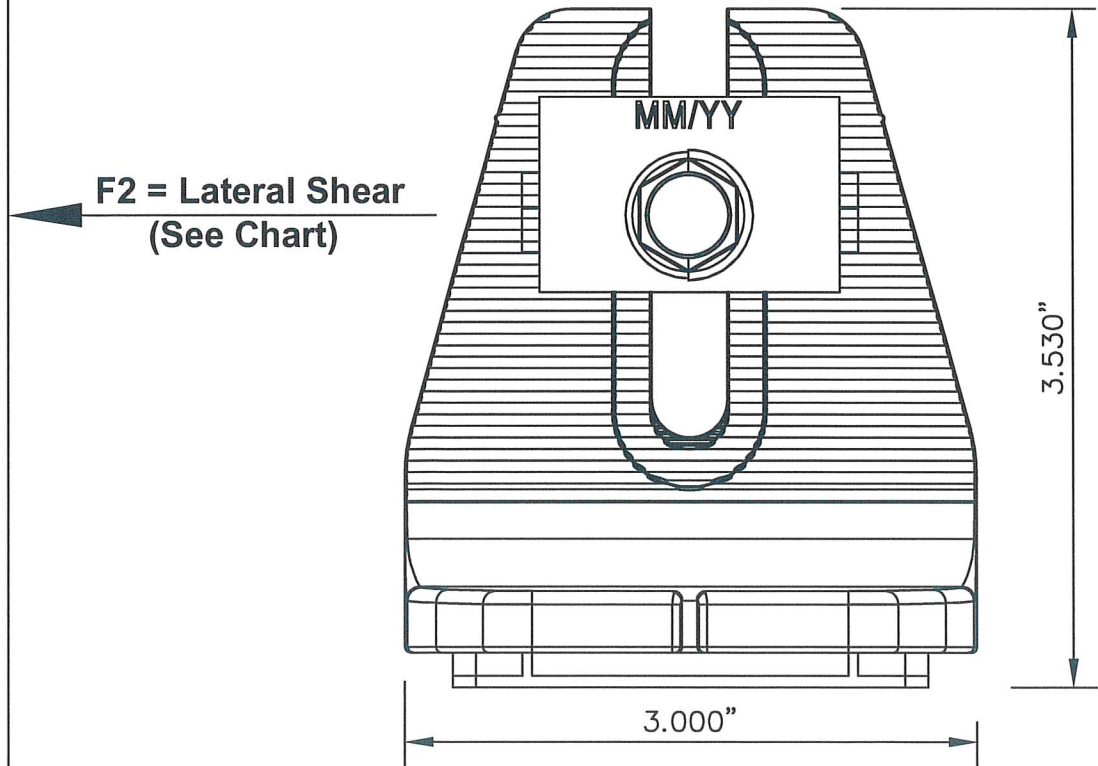
QUICKMOUNT CLICKFIT PHOTOVOLTAIC PANEL RACKING SYSTEM
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BILL OF MATERIALS- ClickFit Smart Foot		
#	DESCRIPTION	MATERIALS/NOTES
15	SMARTFOOT BASE, MILL OR BLACK	300 SERIES ALUMINUM
16	ULTRAGRIP FLASHING SYSTEM	PROPRIETARY FLASHING SYSTEM
17	SCREW, #14 X 3" WITH EPDM BACKED WASHER	300 SERIES SS & EPDM

ALLOWABLE LOADS			
LOAD DIRECTION	CLICKFIT SMART FOOT		
	FASTENER PATTERN #1 or #2 (lb)	FASTENER PATTERN #3	
		7/16" or 15/32" OSB (lb)	19/32" OSB (lb)
F1 - UPLIFT	1004	195	273
F2 - SHEAR	240	117	117
F3 - SHEAR	368	117	117



Direct Tension/Uplift
(See Chart)



**IRONRIDGE**

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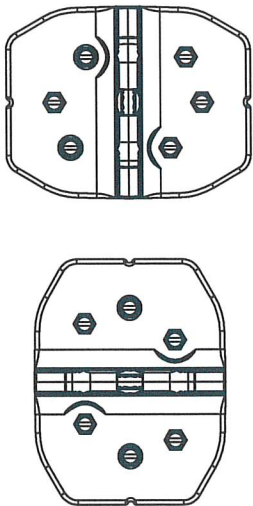
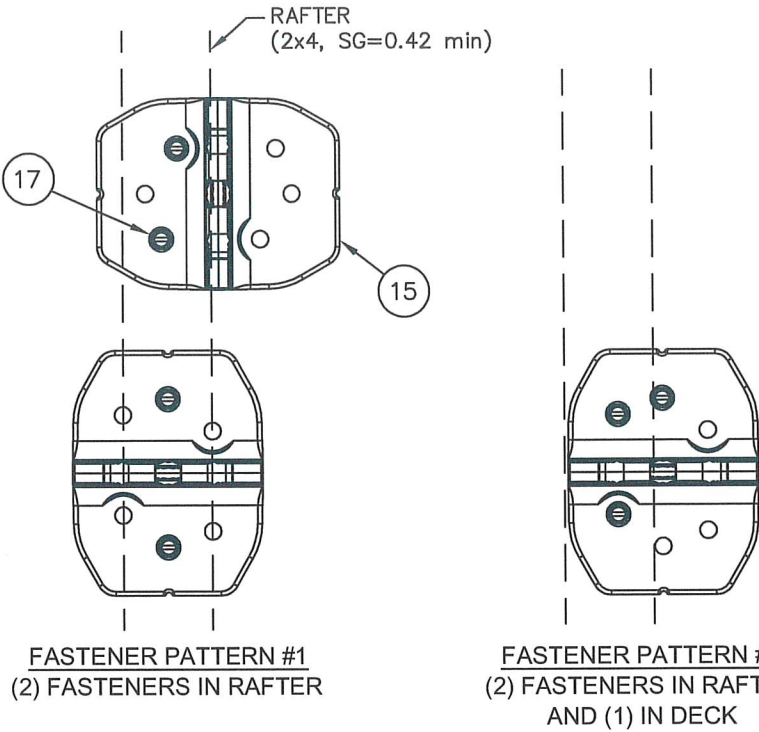
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ALLOWABLE WINDLOADS (+/- psf)										
TWO RAIL SYSTEM						THREE RAIL SYSTEM				
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	FASTENER PATTERN #3			PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	FASTENER PATTERN #3	
			7/16" or 15/32" OSB (+/- psf)	19/32" OSB (+/- psf)					7/16" or 15/32" OSB (+/- psf)	19/32" OSB (+/- psf)
45	67 1/2	16	22.2	31.1		45	67 1/2	16	33.3	46.7
		24	21.3	29.8				24	32.0	44.7
		32	20.3	28.5				32	30.5	42.8
		36	18.5	25.9				36	27.8	38.9
		48	17.3	24.3				48	26.0	36.5
		64	12.2	17.1				64	18.3	25.7
		72	10.7	14.9				72	16.1	22.4
	80	16	18.7	26.2			80	16	28.1	39.3
		24	17.9	25.1				24	26.9	37.7
		32	17.2	24.0				32	25.8	36.0
		36	15.6	21.8				36	23.4	32.7
		48	14.6	20.5				48	21.9	30.8
		64	10.3	14.5				64	15.5	21.8
		72	9.0	12.6				72	13.5	18.9
	86	16	17.6	24.4			86	16	26.4	36.6
		24	16.7	23.4				24	25.1	35.1
		32	16.0	22.3				32	24.0	33.5
		36	14.5	20.3				36	21.8	30.5
		48	13.6	19.0				48	20.4	28.5
		64	9.6	13.4				64	14.4	20.1
		72	8.4	11.7				72	12.6	17.6
	92 1/2	16	16.2	22.7			92 1/2	16	24.3	34.1
		24	15.5	21.7				24	23.3	32.6
		32	14.8	20.8				32	22.2	31.2
		36	13.5	18.9				36	20.3	28.4
		48	12.6	17.7				48	18.9	26.6
		64	8.9	12.5				64	13.4	18.8
		72	7.7	10.9				72	11.6	16.4
LANDSCAPE LAYOUT:										
45	92 1/2	16	16.2	22.7		45	92 1/2	16	24.3	34.1
		24	15.5	21.7				24	23.3	32.6
		32	14.8	20.8				32	22.2	31.2
		36	13.5	18.9				36	20.3	28.4
		48	13.5	18.9				48	20.3	28.4
		64	13.5	18.9				64	20.3	28.4
		72	13.5	18.9				72	20.3	28.4

UP/DOWN SLOPE RAILS:

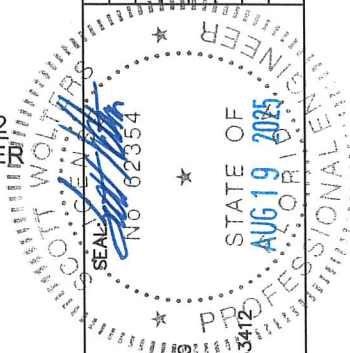
ACROSS SLOPE RAILS:



DWG: IRCF-SF
SHEET: 5/7

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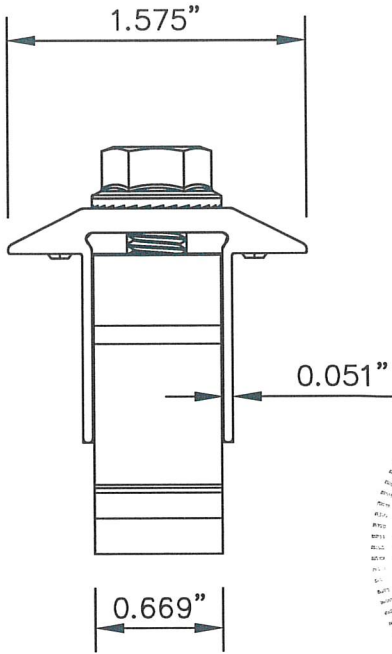
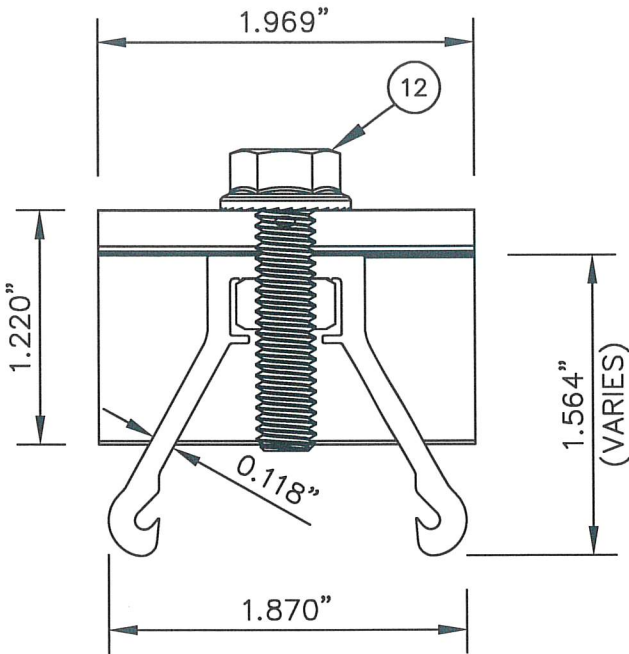


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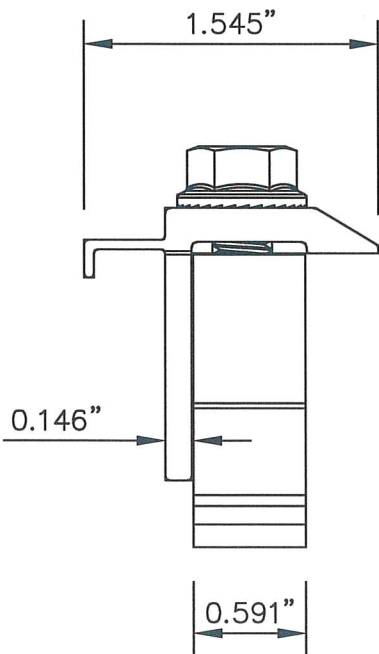
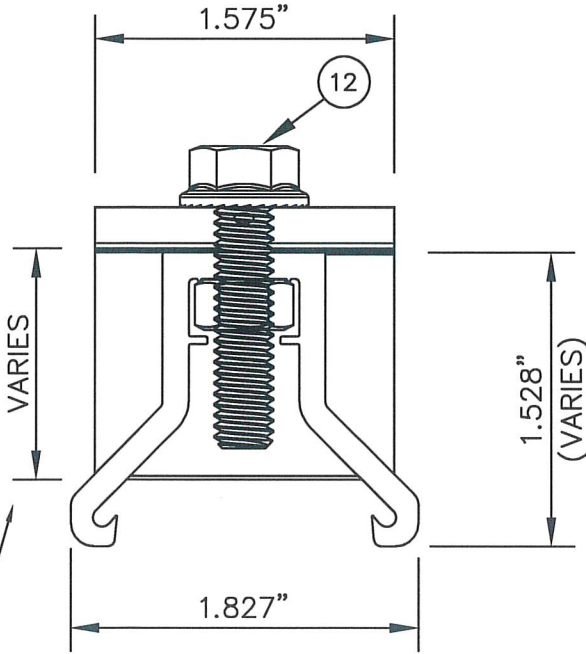
QUICKMOUNT CLICKFIT PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH CLICKFIT SMART FOOT ROOF ATTACHMENT

BILL OF MATERIALS- ClickFit System		
#	DESCRIPTION	MATERIALS/NOTES
1	MID-CLAMP ASSEMBLY	6000 SERIES AL
2	END-CLAMP ASSEMBLY	6000 SERIES AL
2A	UNIVERSAL END-CLAMP ASSEMBLY	6000 SERIES AL
3	END CAP (OPTIONAL)	POLYMERIC
4	CLICKFIT STANDARD RAIL	6000 SERIES AL
5	SPLICE SLEEVE	CORROSION RESISTANT STEEL
11	5/16" x 3/4" HWH CAP SCREW	300 SERIES SS
12	5/16" x 1 1/4" HWH CAP SCREW	300 SERIES SS

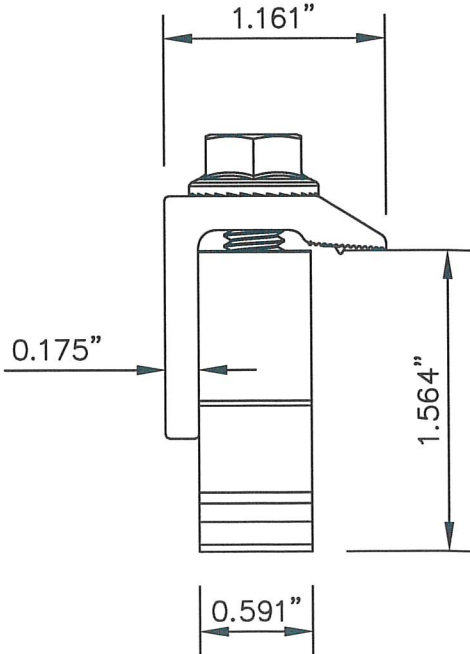
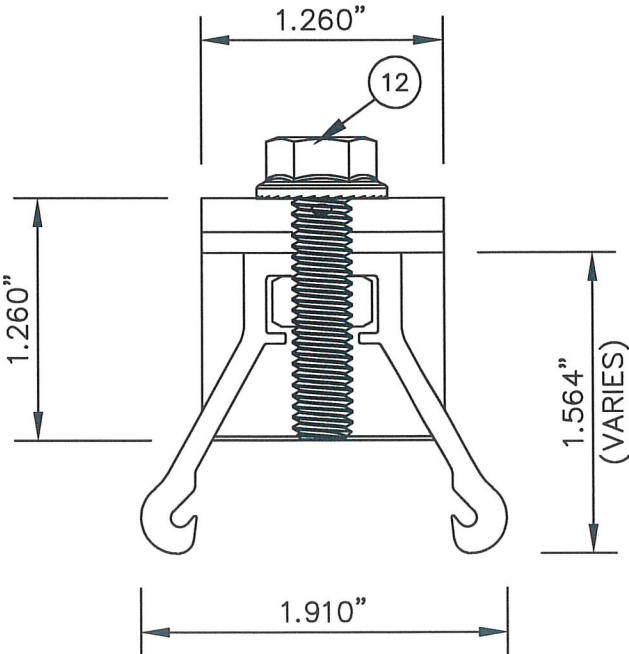
FOR 6000 SERIES EXTRUSIONS $F_{UT}=38$ ksi min, $F_Y=35$ ksi min.
FOR 300 SERIES STAINLESS STEEL $F_Y=65$ ksi min.



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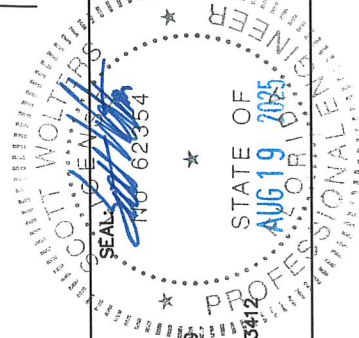


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2A

CLIP HEIGHT VARIES BASED
ON PV PANEL THICKNESS.



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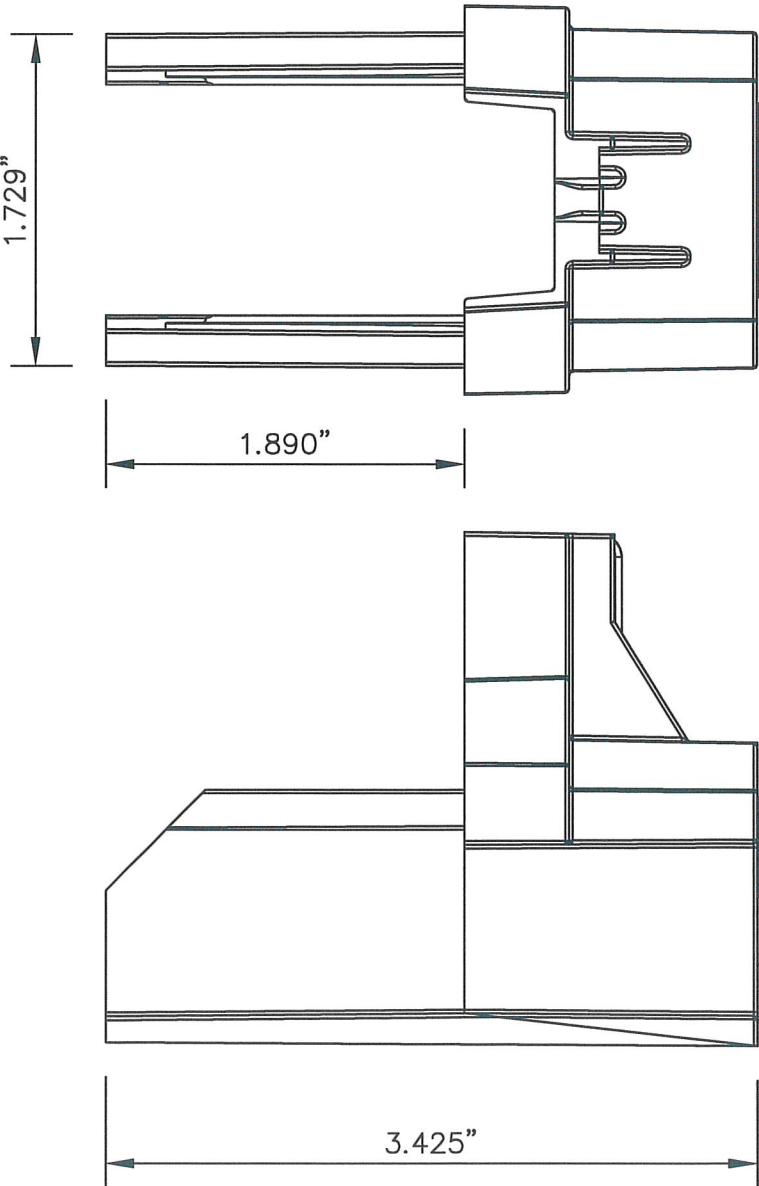
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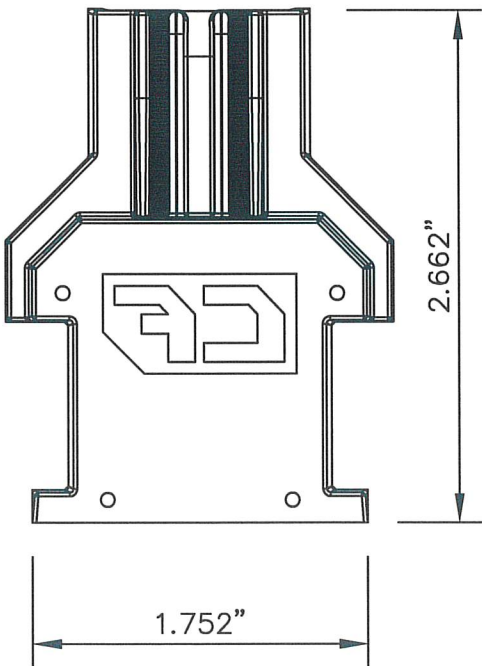
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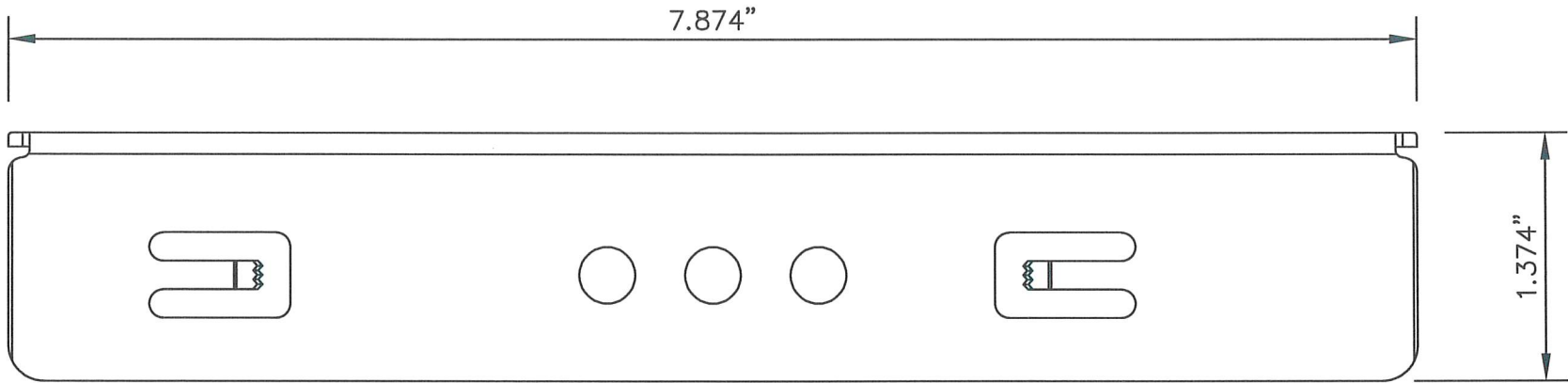
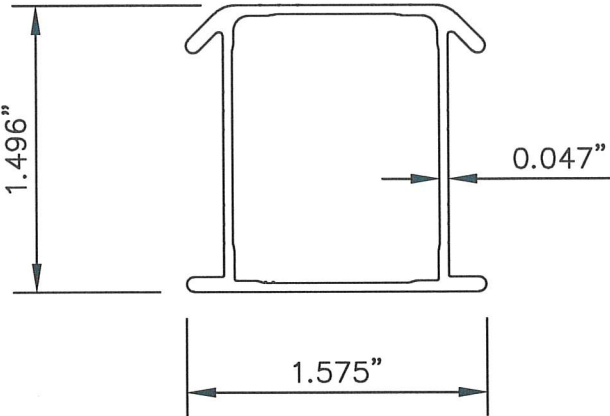
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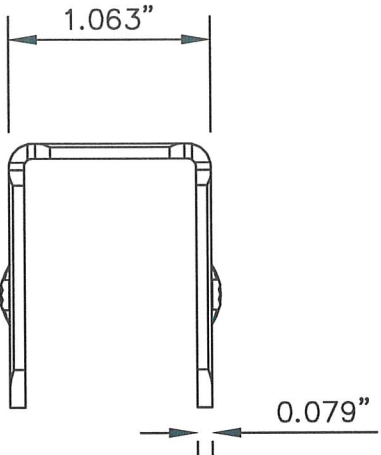
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4



5





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DWG: **IRCF-SF**

SHEET: **7/7**

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STATE OF
FLORIDA
AUG 19 2025

SEAL OF
SCOTT WOLTERS
ENGINEER
NO 62354

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