

SYSTEM IS SECURED TO ROOF STRUCTURE  
(BY OTHERS) AS SOLAR PANEL RACK.

PV RACKING SYSTEM IS NOT RATED FOR IMPACT.

### IRONRIDGE FLUSH MOUNT SOLAR PV RACKING SYSTEM.

DESIGN LOAD RATING FOR SOLAR PANEL RACK TO BE AS PER  
CHARTS SHOWN ON SHEETS 2 THROUGH 5.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE 2017 (6TH EDITION) /2020 (7TH EDITION) FLORIDA  
BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS  
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE  
MATERIAL SHALL BE BEYOND ROOF SHEATHING.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT  
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE  
REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION  
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY  
OF STRUCTURE RECEIVING THIS PRODUCT AND WEATHER SEALING FOR  
WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,  
AND TO BE REVIEWED BY BUILDING OFFICIAL.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION  
IN ACCORDANCE WITH SECTION 1703.5 OF FLORIDA BUILDING CODE. LABELING  
TO COMPLY WITH SECTION 1703.5.

MAX. ROOF SLOPE = 45°

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND  
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION  
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED  
ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF  
ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED  
ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.)  
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER  
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED  
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE  
SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF  
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

Sealed: 11/2/20

FL #29843



afc

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978

FLUSH MOUNT SOLAR PV RACKING SYSTEM (N.I.)  
**IRONRIDGE, INC.**  
28357 Industrial Blvd.  
Hayward, CA. 94545  
Phone: (800) 227-9523 Fax: (510) 259-9747

no	date	by	description
A	10.09.20	ML	UPDATED TO 2020 FBC

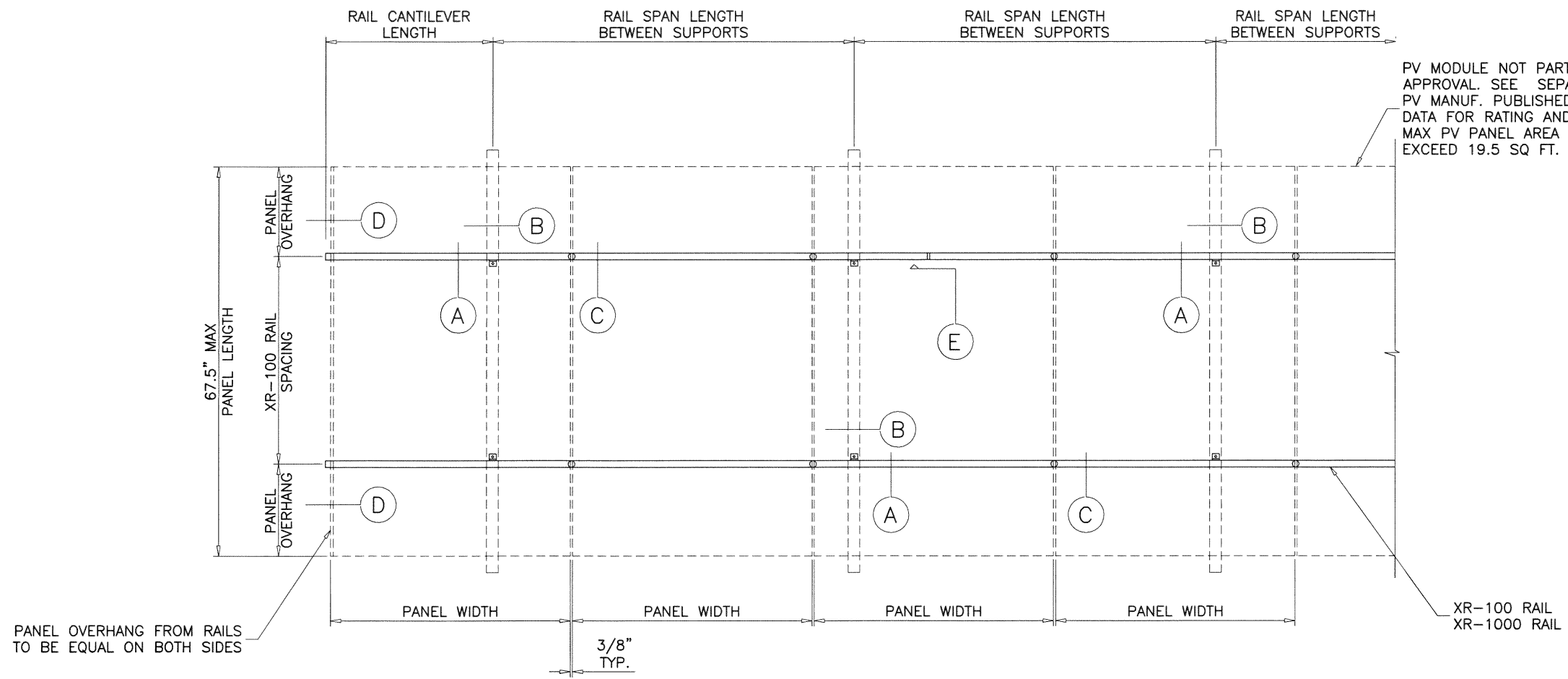
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chk. by:

drawing no.  
**19-51F**

sheet 1 of 15

PAN-RACK\19-51F-IR

PV MODULES UP TO 67.5" LONG AND 19.5 SQ. FT.



PV MODULE NOT PART OF THIS APPROVAL. SEE SEPARATE PV MANUF. PUBLISHED DATA FOR RATING AND DETAILS. MAX PV PANEL AREA NOT TO EXCEED 19.5 SQ FT.

PANEL OVERHANG FROM RAILS TO BE EQUAL ON BOTH SIDES

**TYPICAL ELEVATION**

XR-100 RAIL  
XR-1000 RAIL

NOMINAL DIMS.			DESIGN LOAD CAPACITY (PSF)
SPAN INCHES	CANTILEVER INCHES	NUMBER OF RAILS	(+) / (-)
16	6.4	2	100.0
24	9.6	2	100.0
32	12.8	2	100.0
36	14	2	100.0
48	19	2	75.0
60	24	2	51.0
64	25.6	2	46.7
72	29	2	40.0

INTERPOLATION BETWEEN CHART VALUES ALLOWED.

ALTERNATE SIZE UNITS:  
MAX. PV PANEL AREA NOT TO EXCEED 19.5 SQ FT.

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(C.A.N. 3538)

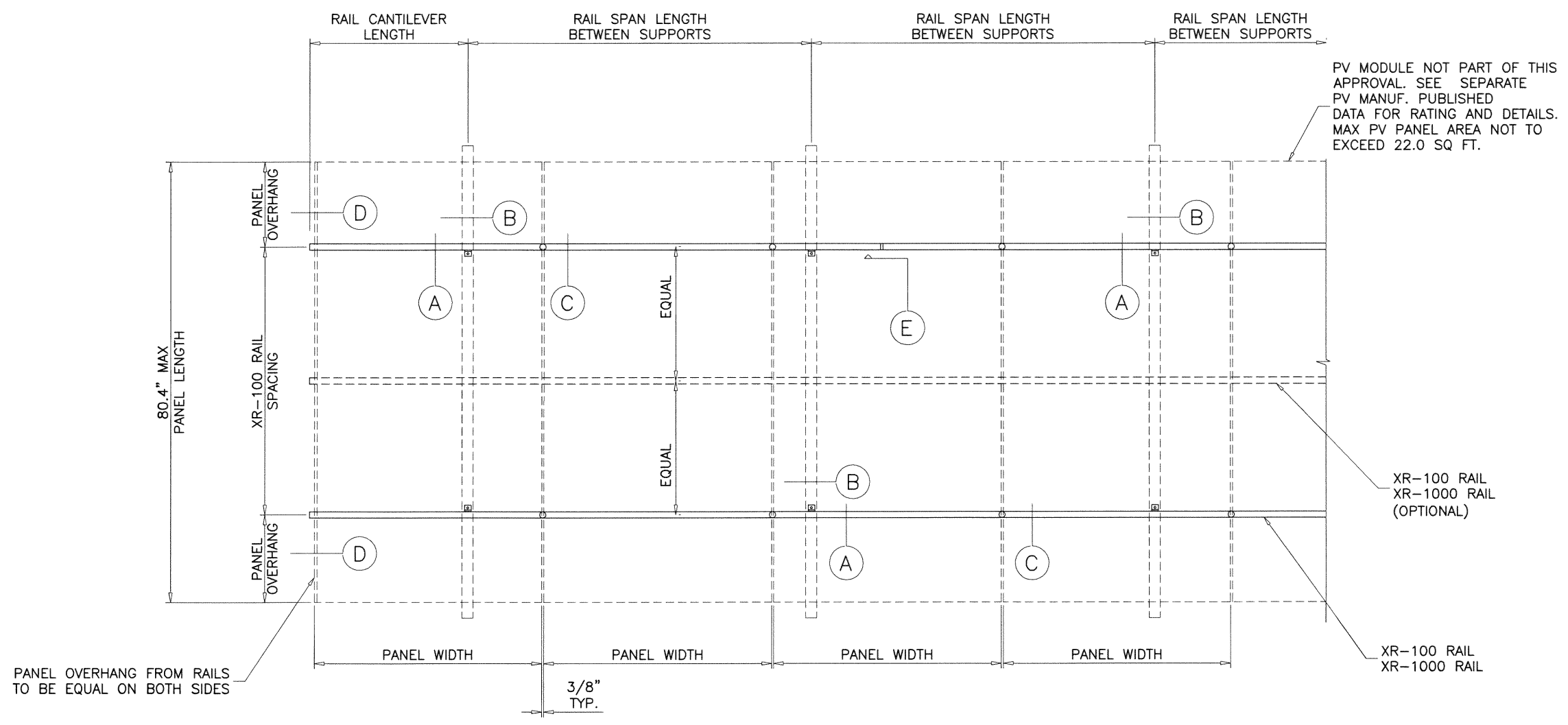
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drawing no.	19-51F			
sheet	2 of 15			

PAN-RACK\19-51F-IR

PV MODULES UP TO 80.4" LONG AND 22.0 SQ. FT.



PV MODULE NOT PART OF THIS APPROVAL. SEE SEPARATE PV MANUF. PUBLISHED DATA FOR RATING AND DETAILS. MAX PV PANEL AREA NOT TO EXCEED 22.0 SQ FT.

PANEL OVERHANG FROM RAILS TO BE EQUAL ON BOTH SIDES

XR-100 RAIL  
XR-1000 RAIL  
(OPTIONAL)

XR-100 RAIL  
XR-1000 RAIL

**TYPICAL ELEVATION**

XR-100 RAIL  
XR-1000 RAIL

NOMINAL DIMS.			DESIGN LOAD CAPACITY (PSF)
SPAN INCHES	CANTILEVER INCHES	NUMBER OF RAILS	(+) / (-)
16	6.4	3	100.0
24	9.6	3	100.0
32	12.8	3	100.0
36	14	3	100.0
48	19	3	75.00
60	24	3	51.0
64	25.6	3	46.7
72	29	3	40.0

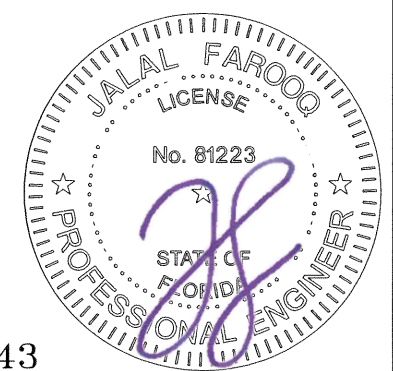
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SPAN INCHES	CANTILEVER INCHES	NUMBER OF RAILS	(+) / (-)
16	6.4	2	100.0
24	9.6	2	100.0
32	12.8	2	93.3
36	14	2	87.2
48	19	2	67.8
60	24	2	51.0
64	25.6	2	46.7
72	29	2	40.0

INTERPOLATION BETWEEN CHART VALUES ALLOWED.

ALTERNATE SIZE UNITS:  
MAX. PV PANEL AREA NOT TO EXCEED 22.0 SQ FT.

Sealed: 11/2/20

FL #29843



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sheet 3 of 15

PV MODULES UP TO 67.5" LONG AND 19.5 SQ. FT.



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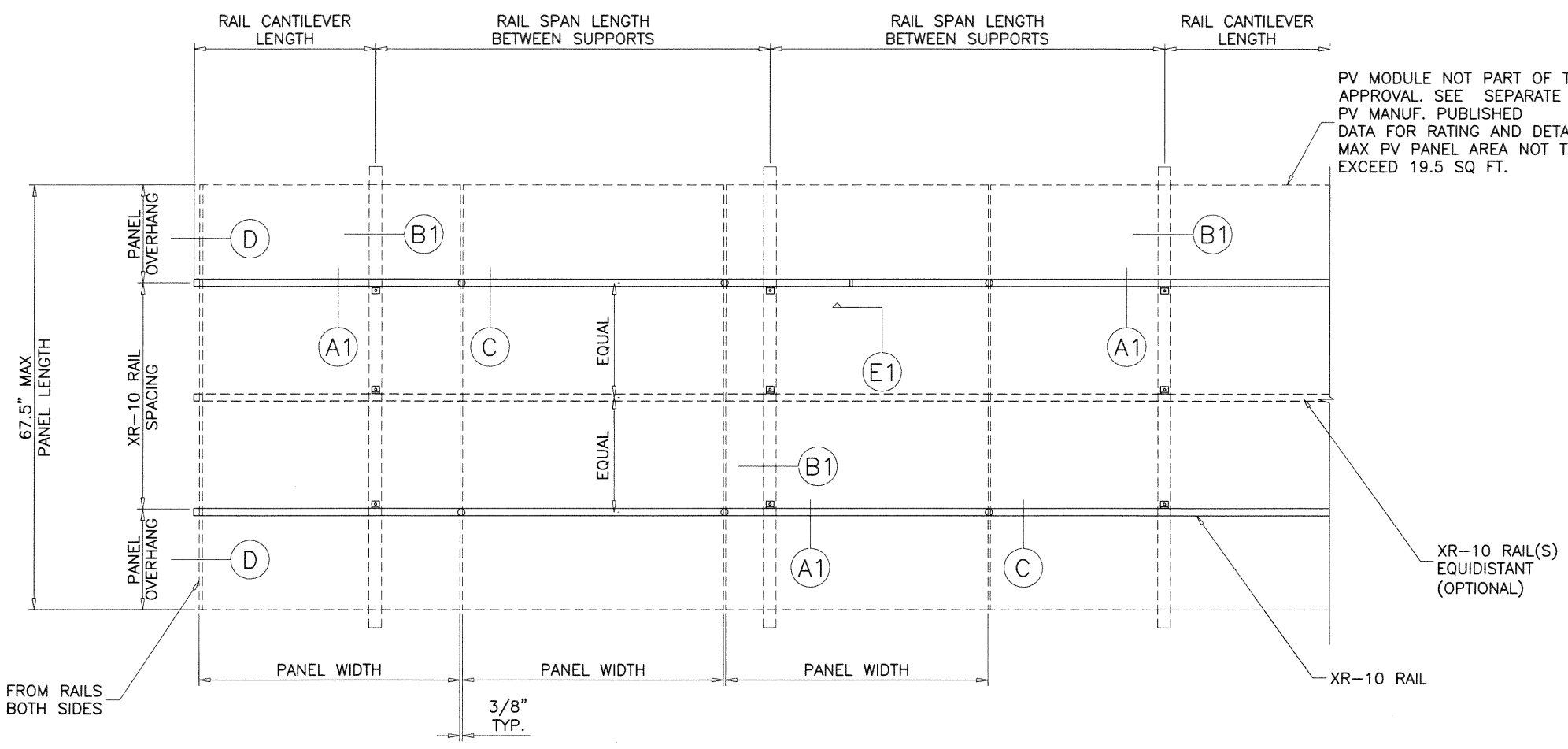
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 sheet 4 of 15



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**TYPICAL ELEVATION**

XR-10 RAIL

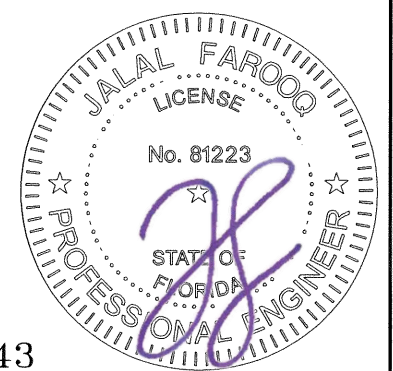
NOMINAL DIMS.			DESIGN LOAD CAPACITY (PSF)
SPAN INCHES	CANTILEVER INCHES	NUMBER OF RAILS	(+) / (-)
16	6.4	3	100.0
24	9.6	3	100.0
32	12.8	3	100.0
36	14	3	89.0
48	19	3	75.0
16	6.4	2	60.0
24	9.6	2	60.0
32	12.8	2	60.0
36	14	2	60.0
48	19	2	40.0

INTERPOLATION BETWEEN CHART VALUES ALLOWED.

ALTERNATE SIZE UNITS:  
 MAX. PV PANEL AREA NOT TO EXCEED 19.5 SQ FT.

Sealed: 11/2/20

FL #29843





PV MODULES UP TO 80.4" LONG AND 22.0 SQ. FT.



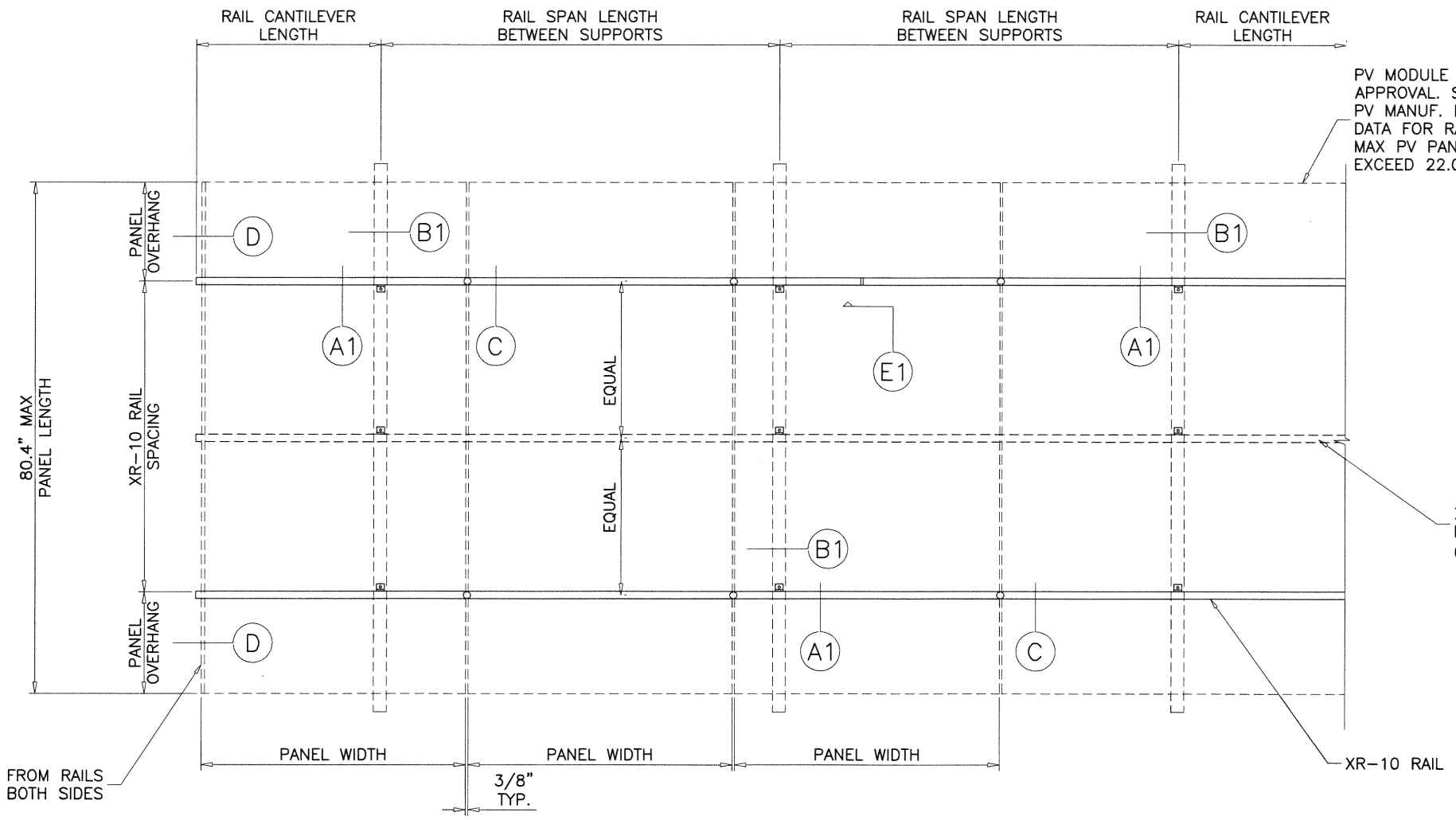
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**19-51F**  
 sheet 5 of 15



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**TYPICAL ELEVATION**

XR-10 RAIL

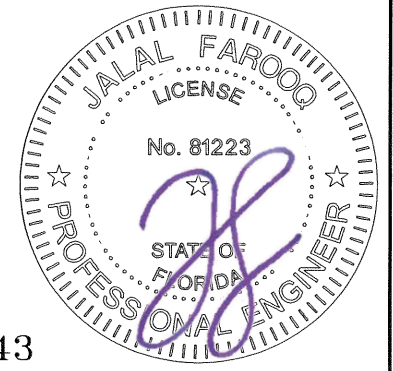
NOMINAL DIMS.			DESIGN LOAD CAPACITY (PSF)
SPAN INCHES	CANTILEVER INCHES	NUMBER OF RAILS	(+) / (-)
24	9.6	4	100.0
32	12.8	4	100.0
36	14	4	100.0
48	19	4	75.0
16	6.4	3	100.0
24	9.6	3	100.0
32	12.8	3	86.8
36	14	3	79.2
48	19	3	58.5
16	6.4	2	60.0
24	9.6	2	60.0
32	12.8	2	59.0
36	14	2	54.0
48	19	2	40.0

INTERPOLATION BETWEEN CHART VALUES ALLOWED.

ALTERNATE SIZE UNITS:  
 MAX. PV PANEL AREA NOT TO EXCEED 22.0 SQ FT.

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L-FOOT INSTALLATION TO CONCRETE ROOF

**af c**  
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sheet	6 of 15			

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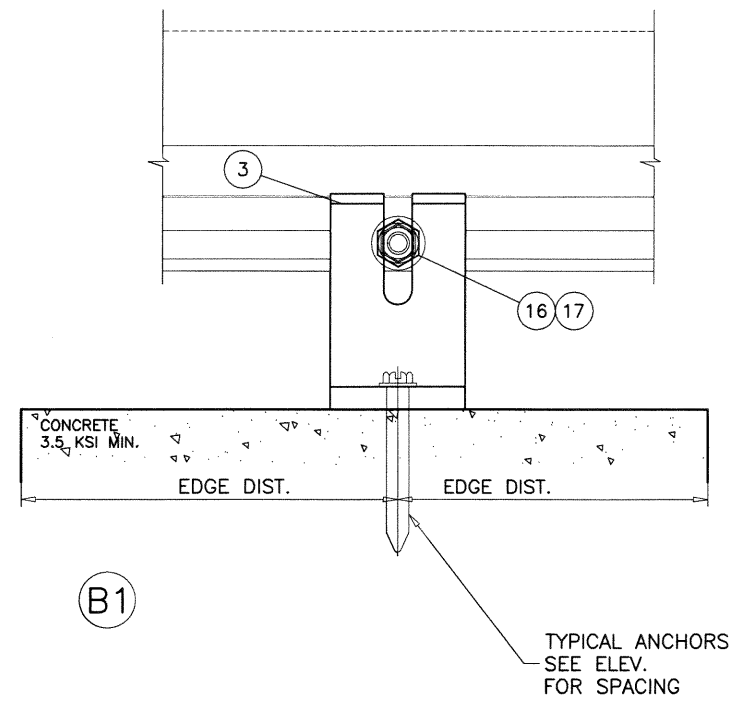
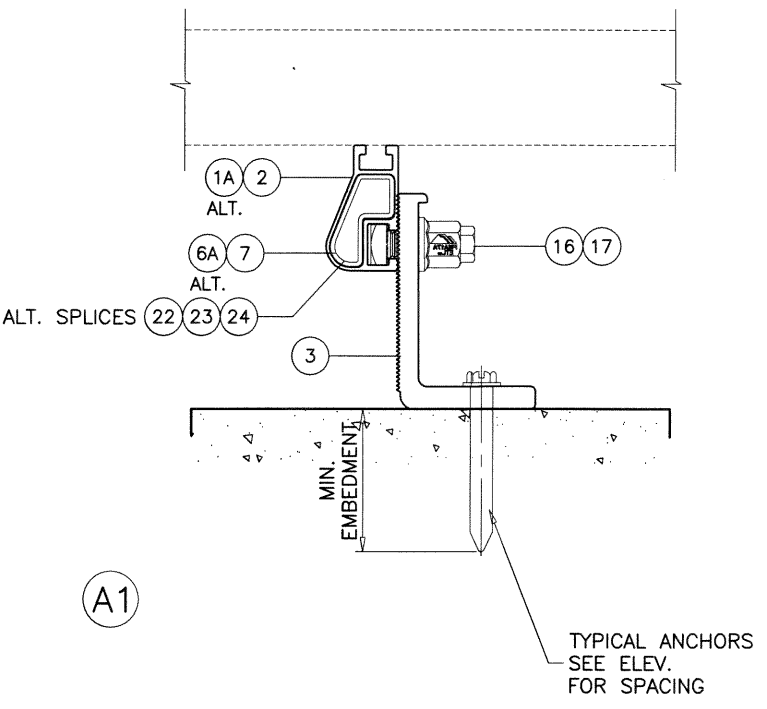
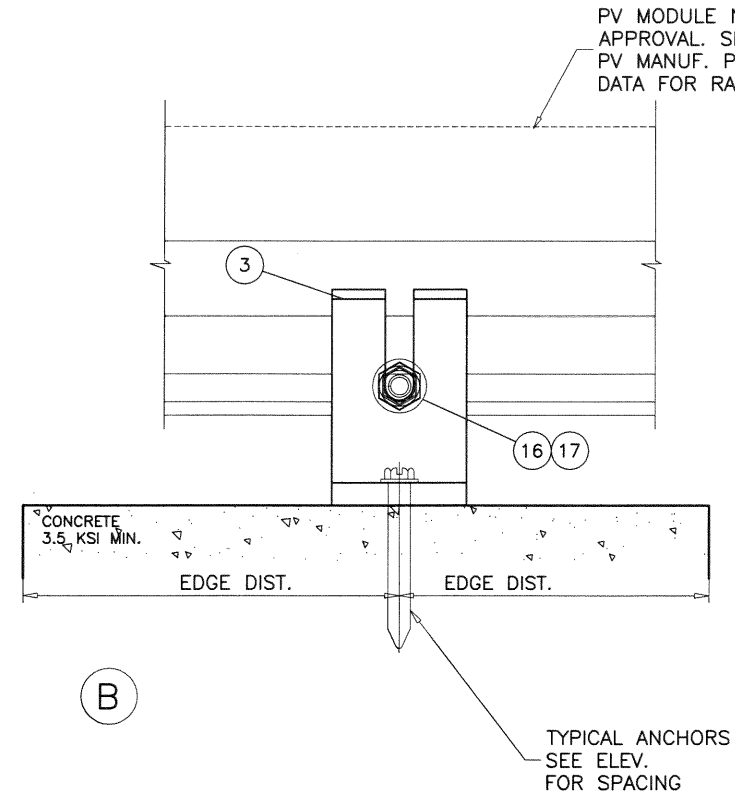
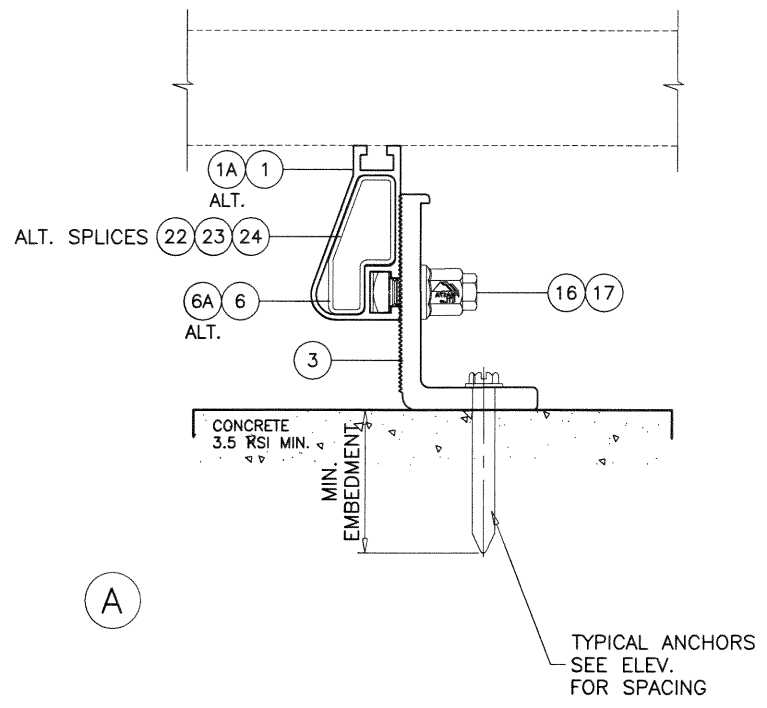
WOOD, CONCRETE AND METAL STRUCTURE NOT BY IRONRIDGE, INC. MUST SUSTAIN LOADS IMPOSED BY RACKING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

- TYPE 'A' - 5/16" DIA. LAG SCREW (Fy=60 KSI)  
 INTO WOOD STRUCTURES  
 2-1/4" MIN. THREAD PENETRATION INTO WOOD
- TYPE 'B' - 3/8" DIA. ST/ST KWIK BOLT TZ EXPANSION ANCHOR BY 'HILTI' (Fu=115 KSI, Fy=92 KSI)  
 DIRECTLY INTO CONCRETE  
 2-5/16" MIN. EMBED INTO CONCRETE
- TYPE 'C' - 3/8" DIA. ST/ST HUS-HR ANCHOR BY 'HILTI' (Fu=138 KSI, Fy=118 KSI)  
 DIRECTLY INTO CONCRETE  
 2-3/4" MIN. EMBED INTO CONCRETE

**CRITICAL EDGE DISTANCE**  
 INTO CONCRETE = 3-1/2" MIN.  
 INTO WOOD STRUCTURE = 3/4" MIN.

WOOD SUBSTRUCTURE SG = 0.45 MIN.  
 CONCRETE SUBSTRUCTURE f'c = 3500 PSI MIN.



ROOF STRUCTURE AND ROOF DECK NOT BY IRONRIDGE MUST SUSTAIN LOADS IMPOSED BY RACKING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Sealed: 11/2/20

FL #29843



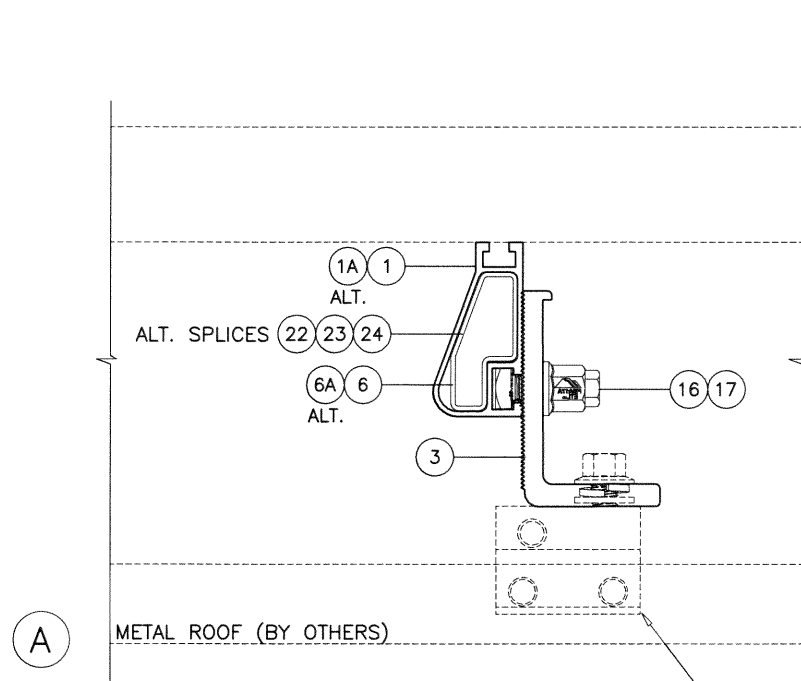


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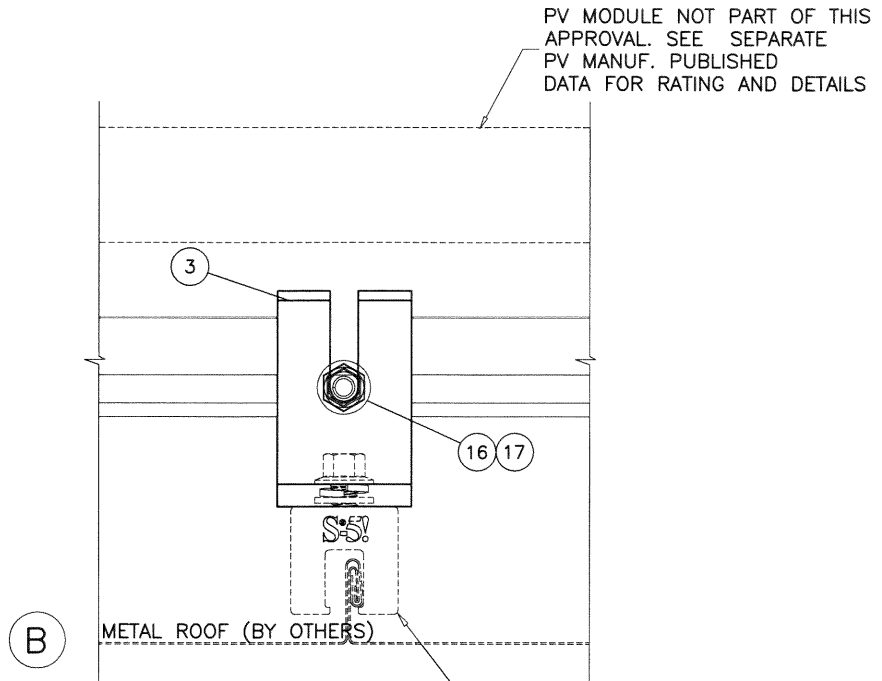
PAN-RACK\19-51F-IR

FLUSH MOUNT SOLAR PV RACKING SYSTEM (N.I.)

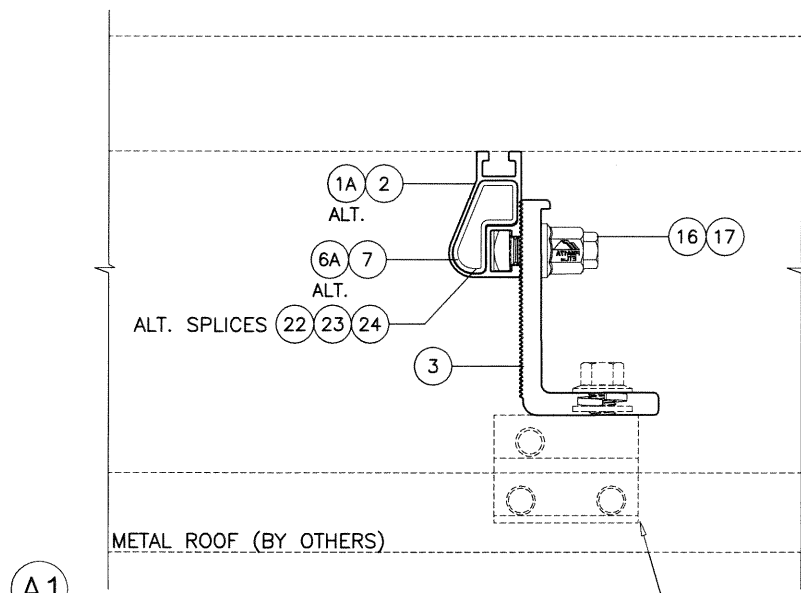
**IRONRIDGE, INC.**  
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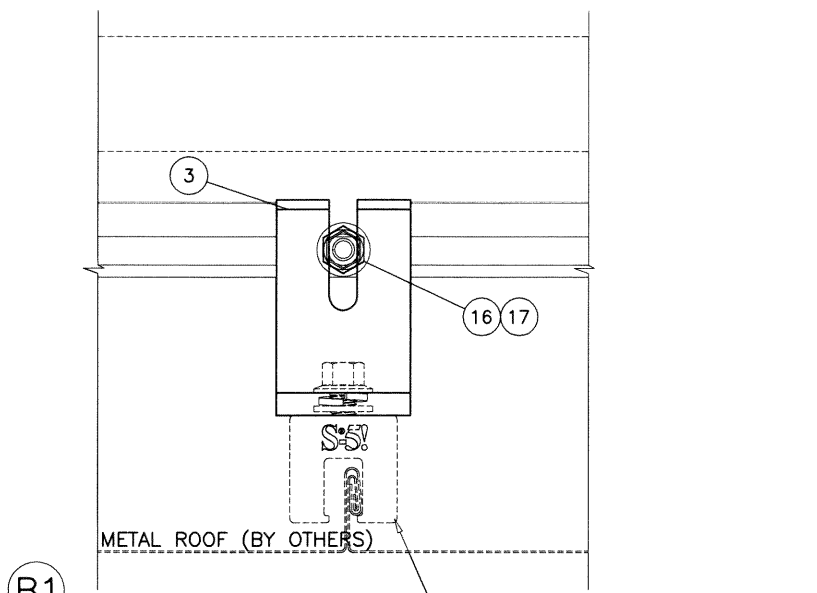
S-5! METAL ROOF CLAMP.  
 NOT PART OF THIS APPROVAL  
 (SEE MANUF'S PUBLISHED  
 ALLOWABLE VALUES)



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 NOT PART OF THIS APPROVAL  
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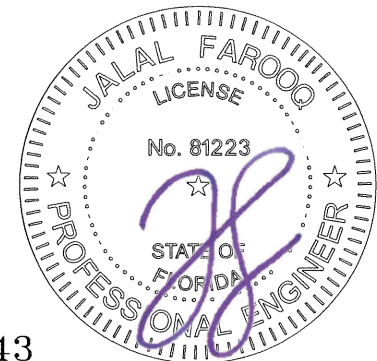


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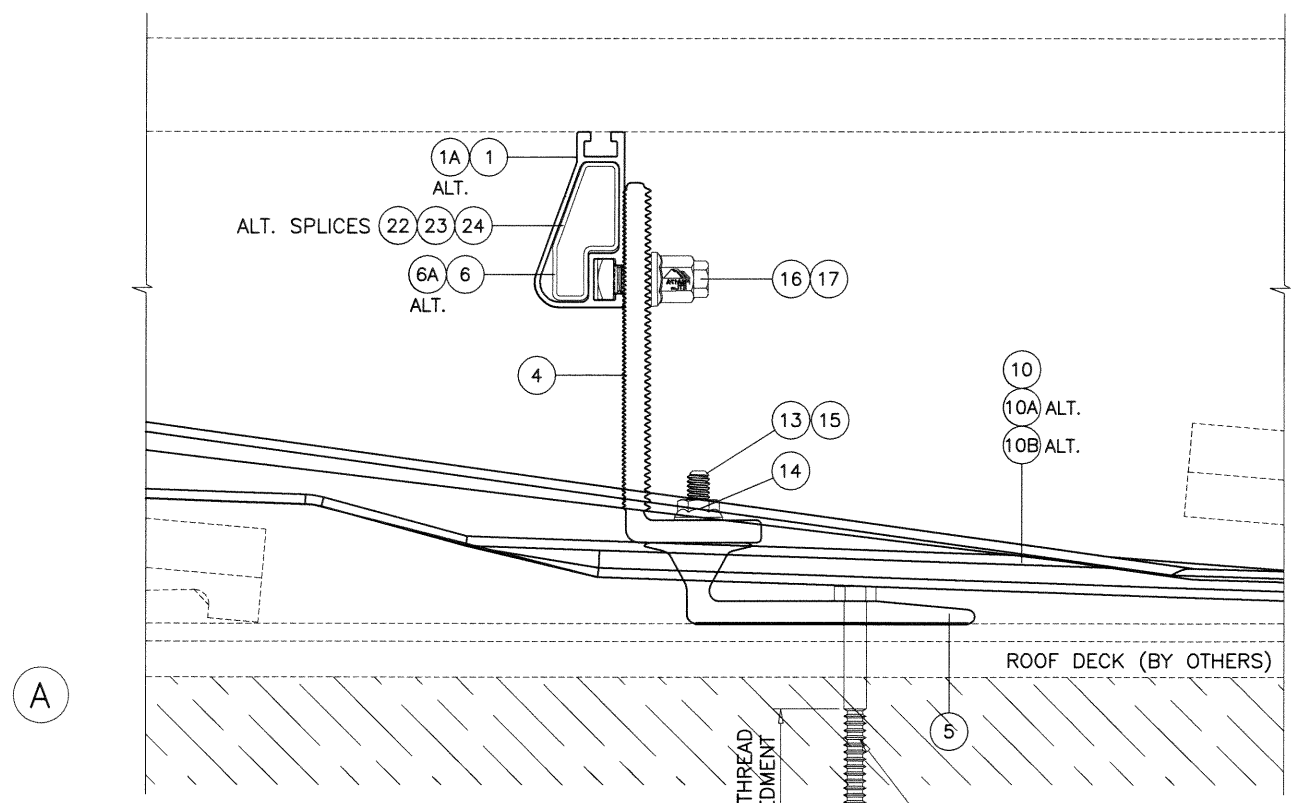
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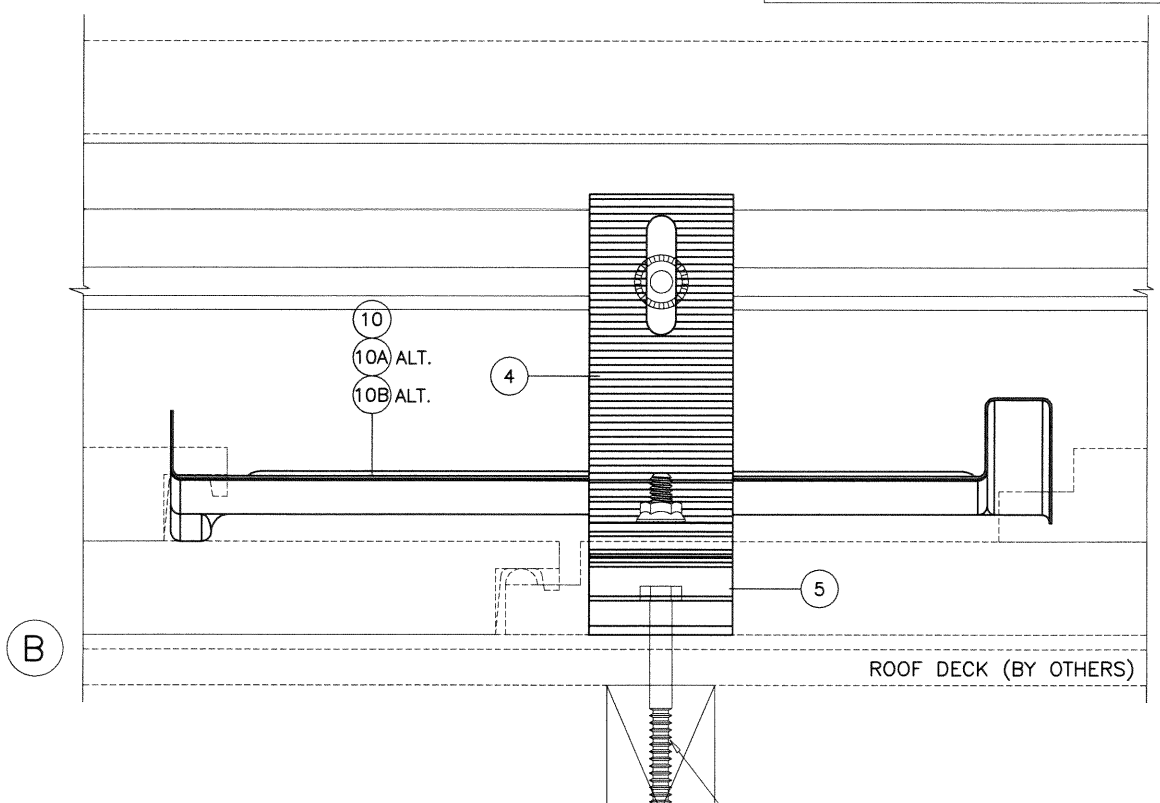
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sheet 7 of 15			



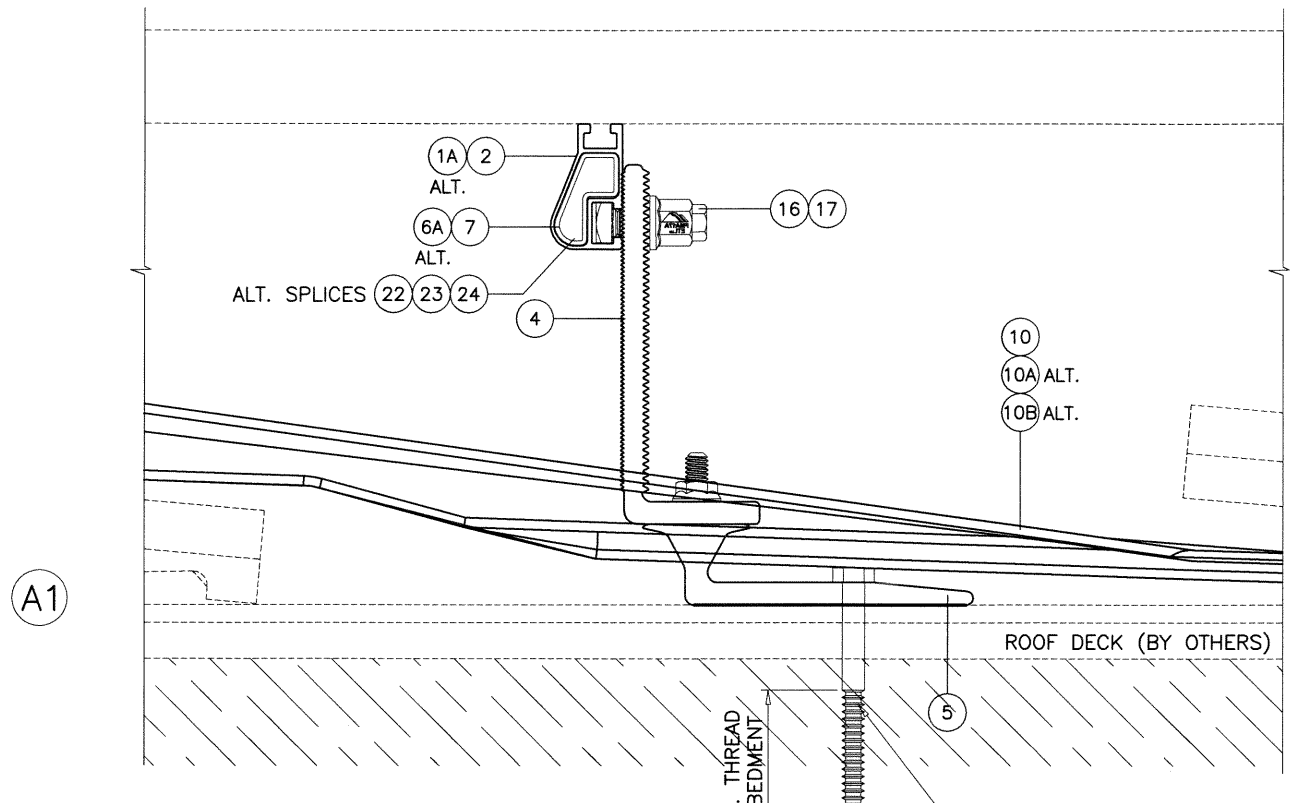
KO-TILE INSTALLATIONS TO WOOD RAFTERS



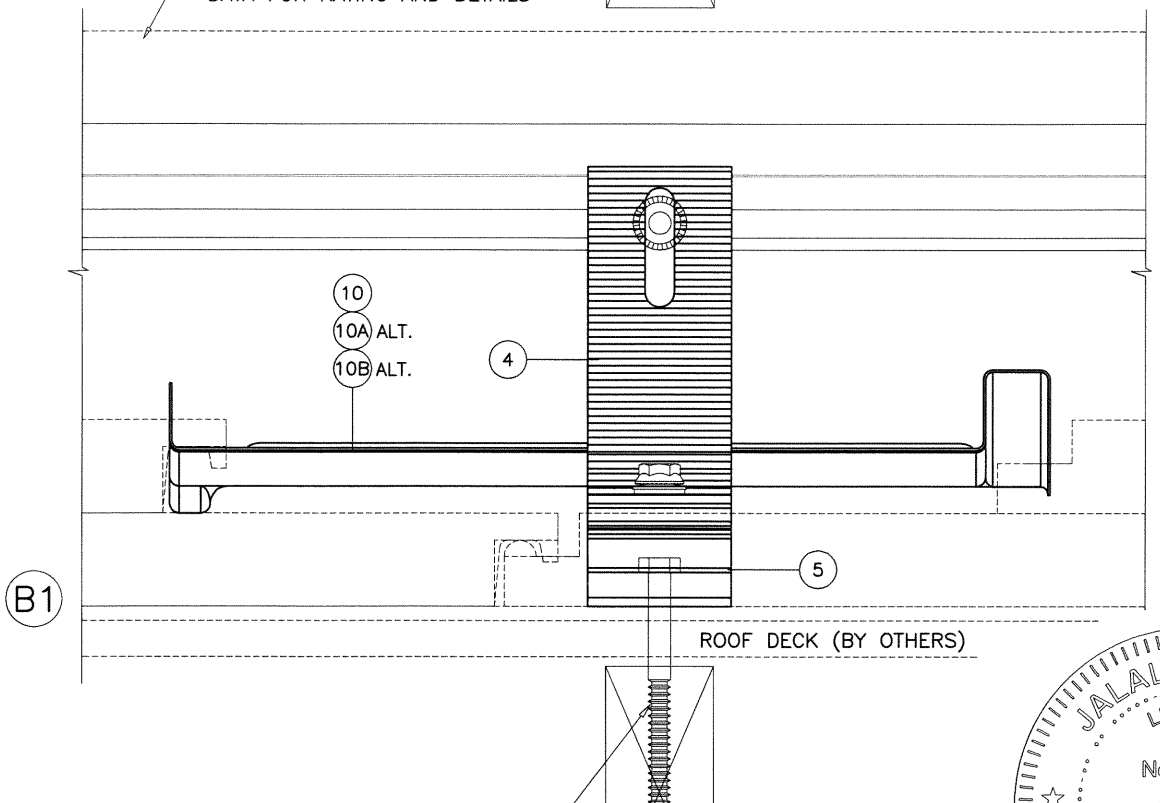
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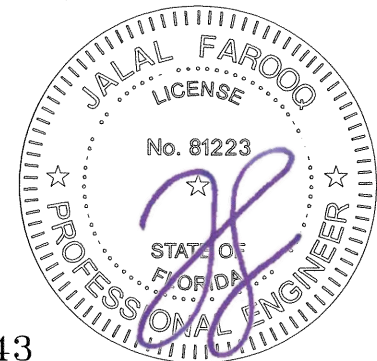
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ROOF STRUCTURE AND ROOF DECK NOT BY IRONRIDGE MUST SUSTAIN LOADS IMPOSED BY RACKING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

MAXIMUM KO TILE WIND UPLIFT RESISTANCE = 844 LBS

Sealed: 11/2/20

FL #29843



**af c**  
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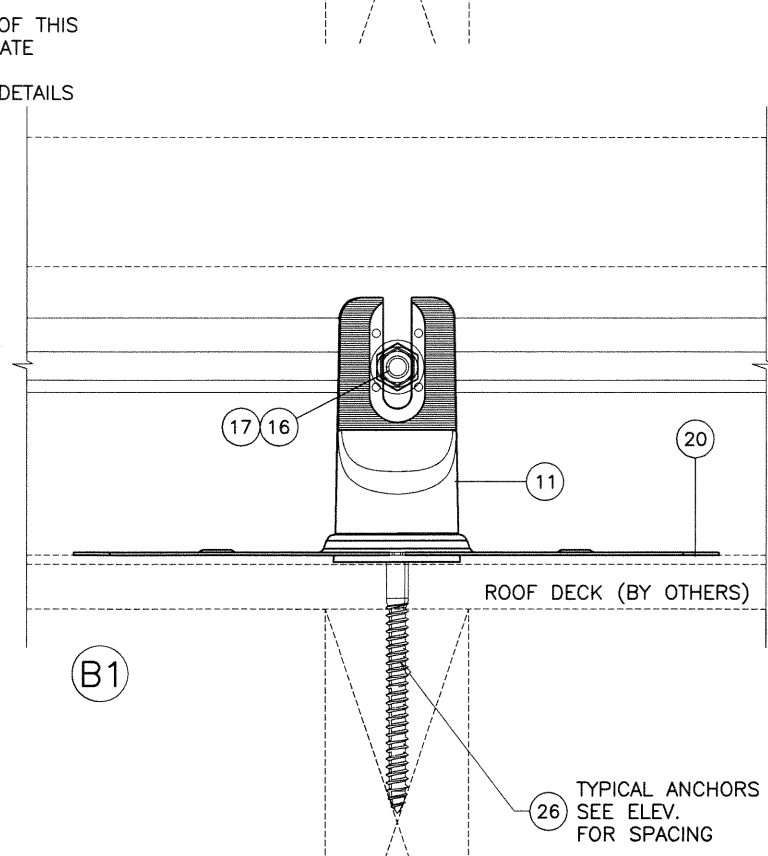
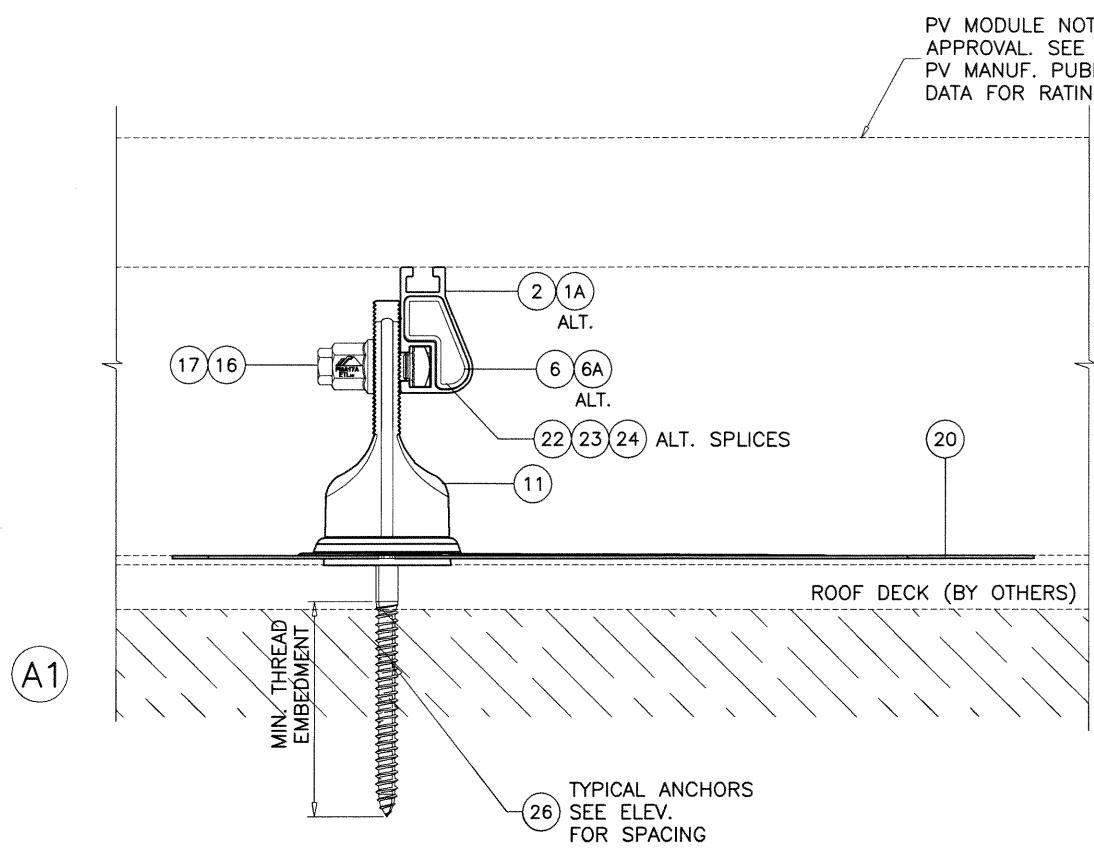
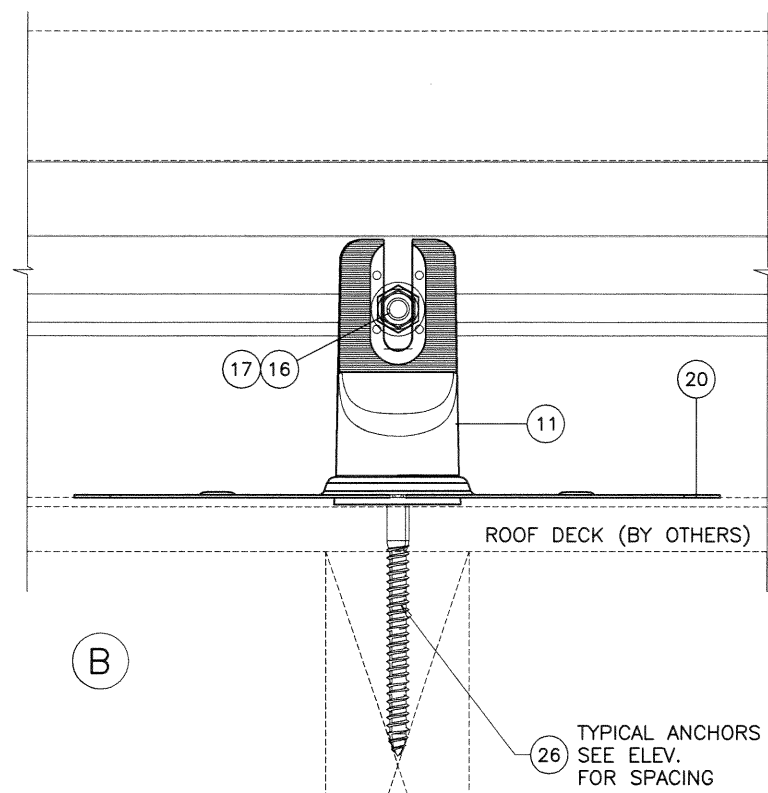
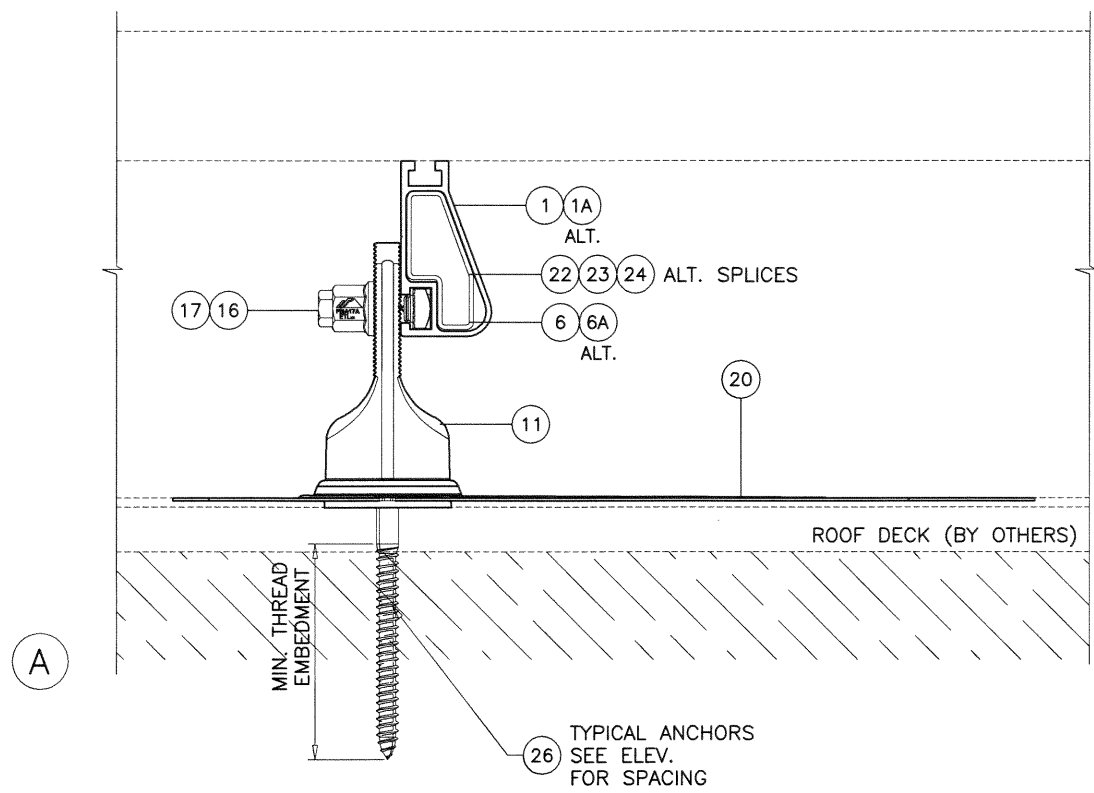
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**19-51F**  
 sheet 8 of 15



FLASHFOOT2 INSTALLATION TO WOOD RAFTERS



PV MODULE NOT PART OF THIS APPROVAL. SEE SEPARATE PV MANUF. PUBLISHED DATA FOR RATING AND DETAILS

ROOF STRUCTURE AND ROOF DECK NOT BY IRONRIDGE MUST SUSTAIN LOADS IMPOSED BY RACKING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

MAXIMUM FLASHFOOT2 WIND UPLIFT RESISTANCE (SG = 0.45) = 811.7 LBS  
 MAXIMUM FLASHFOOT2 WIND UPLIFT RESISTANCE (SG = 0.50) = 951 LBS  
 MAXIMUM FLASHFOOT2 WIND UPLIFT RESISTANCE (SG ≥ 0.54) = 1067 LBS

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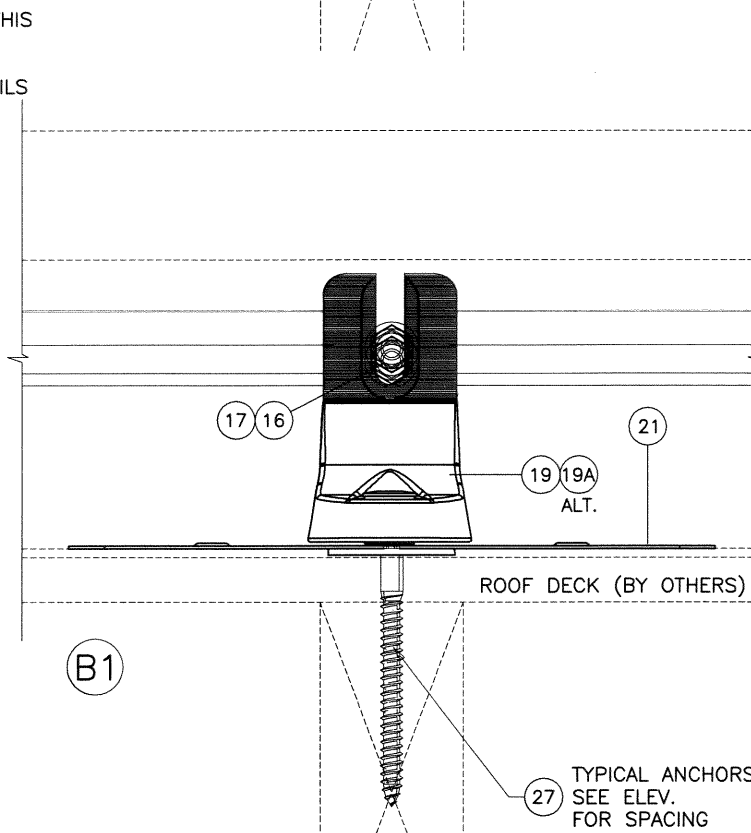
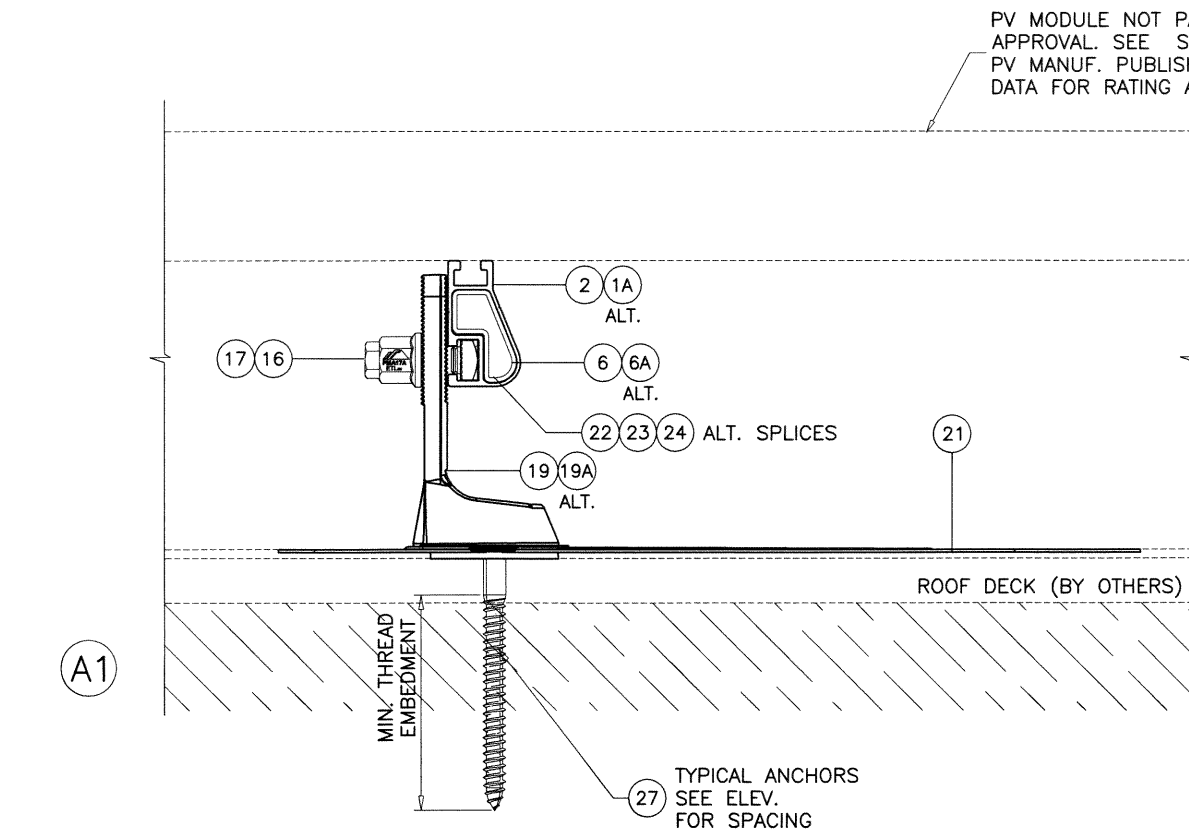
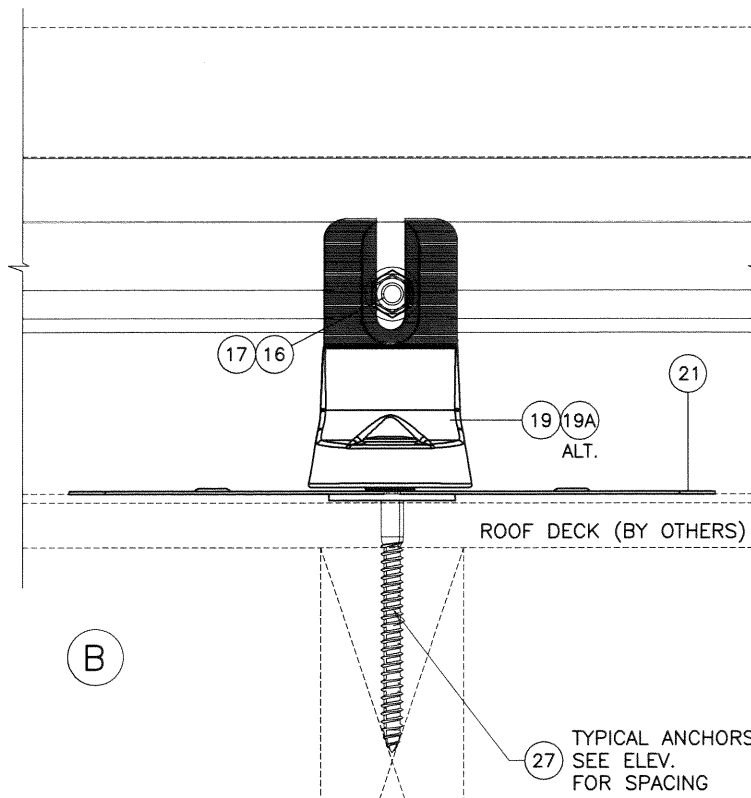
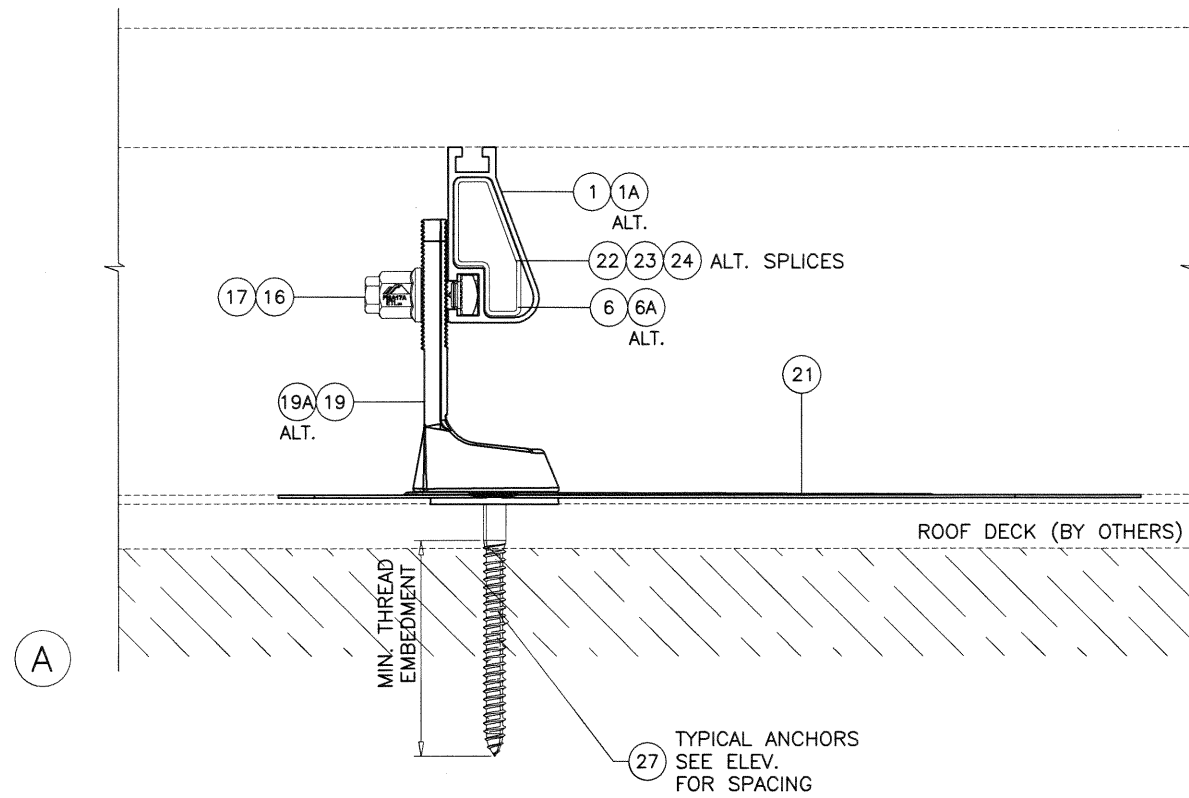
  

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chk. by:	

drawing no.	19-51F
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FLASHVUE WITH GRIPCAP OR GRIPCAP+ INSTALLATION TO WOOD RAFTERS



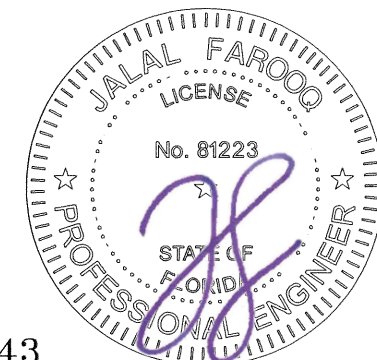
PV MODULE NOT PART OF THIS APPROVAL. SEE SEPARATE PV MANUF. PUBLISHED DATA FOR RATING AND DETAILS

ROOF STRUCTURE AND ROOF DECK NOT BY IRONRIDGE MUST SUSTAIN LOADS IMPOSED BY RACKING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

MAXIMUM FLASHVUE WIND UPLIFT RESISTANCE (SG = 0.45) = 991.3 LBS  
 MAXIMUM FLASHVUE WIND UPLIFT RESISTANCE (SG = 0.46) = 1024.5 LBS  
 MAXIMUM FLASHVUE WIND UPLIFT RESISTANCE (SG ≥ 0.50) = 1161 LBS

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FL #29843



**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978

FLUSH MOUNT SOLAR PV RACKING SYSTEM (N.I.)

**IRONRIDGE, INC.**  
 28357 Industrial Blvd.  
 Hayward, CA, 94545  
 Phone: (800) 227-9523 Fax: (510) 259-9747

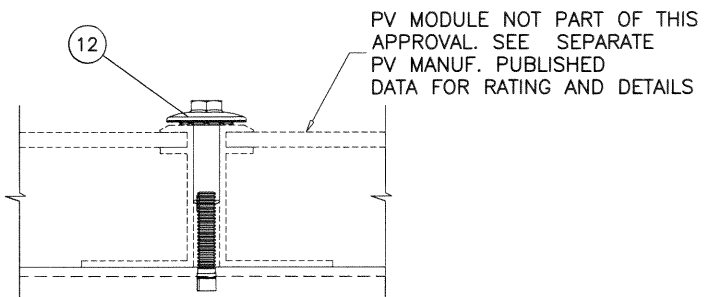
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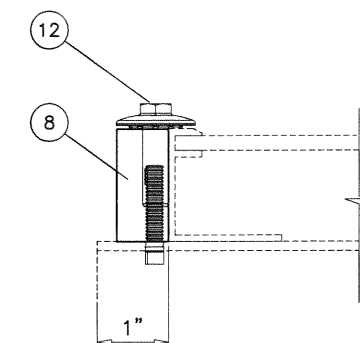
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**19-51F**

sheet 10 of 15

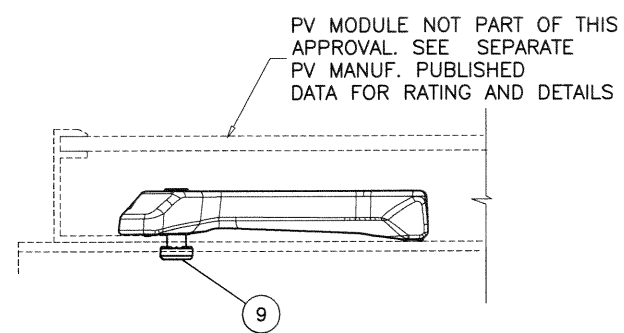
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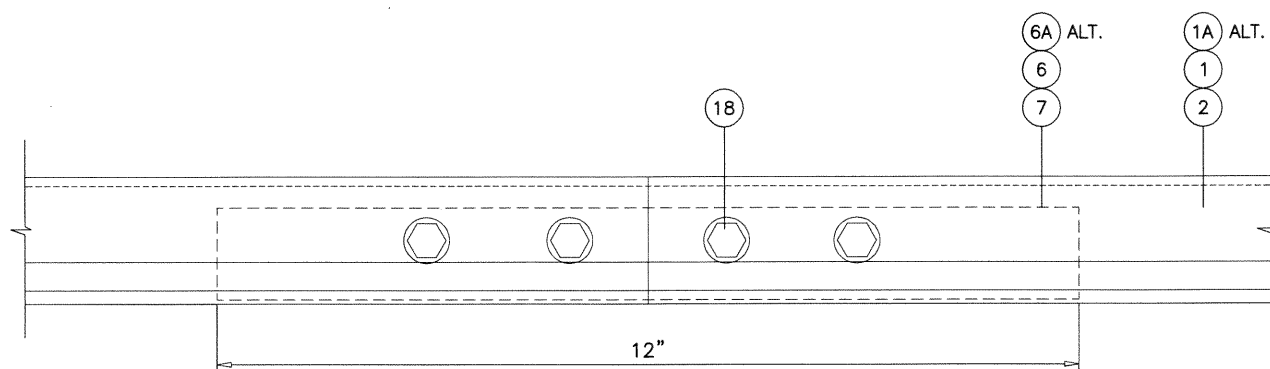
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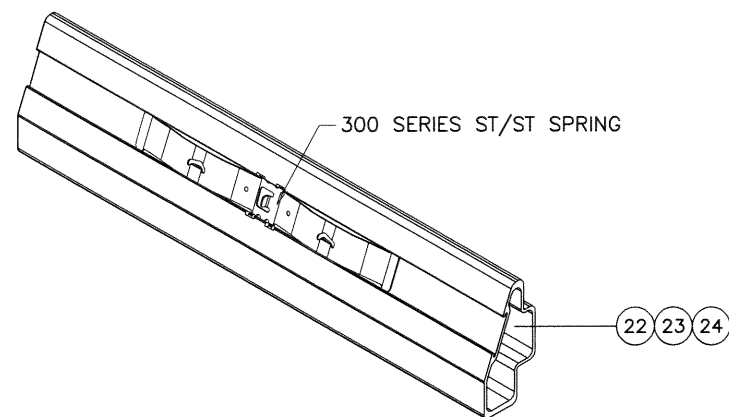
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E  
E1



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FL #29843

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**AL-FAROOQ CORPORATION**  
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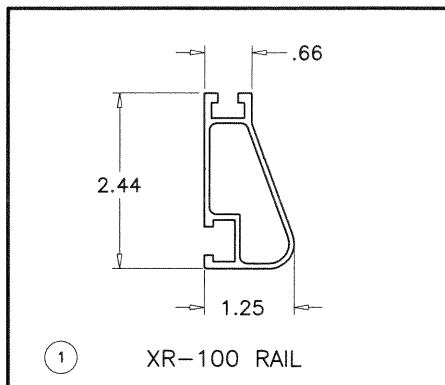
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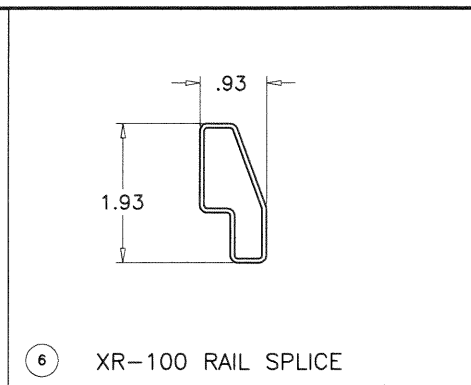
  

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drawing no. 19-51F			
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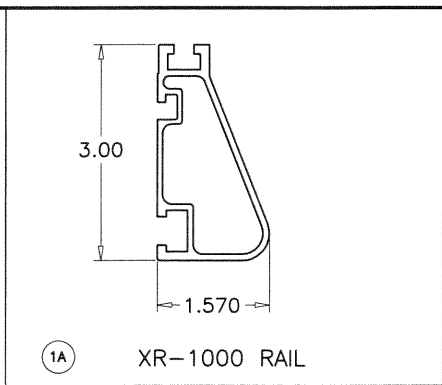




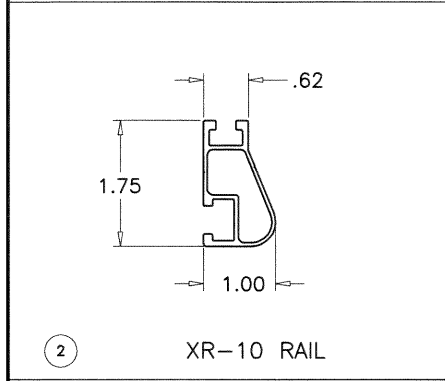
① XR-100 RAIL



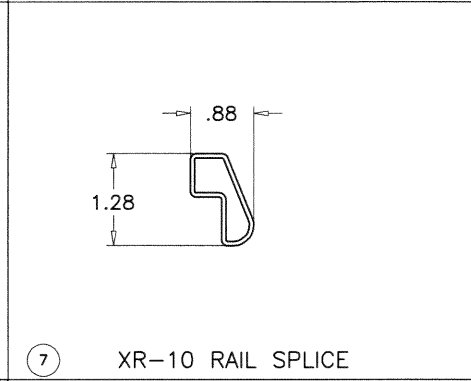
⑥ XR-100 RAIL SPLICE



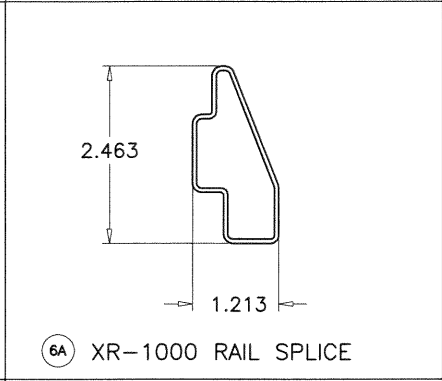
①A XR-1000 RAIL



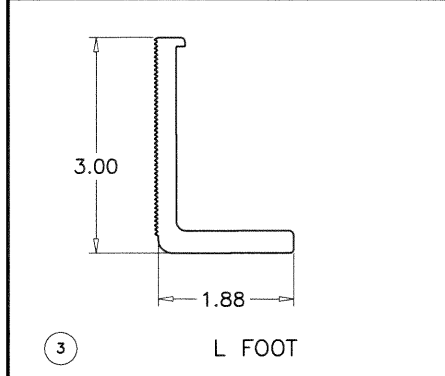
② XR-10 RAIL



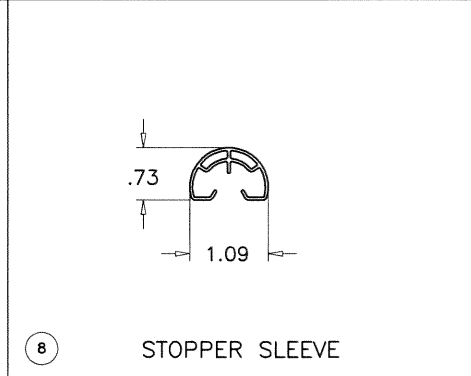
⑦ XR-10 RAIL SPLICE



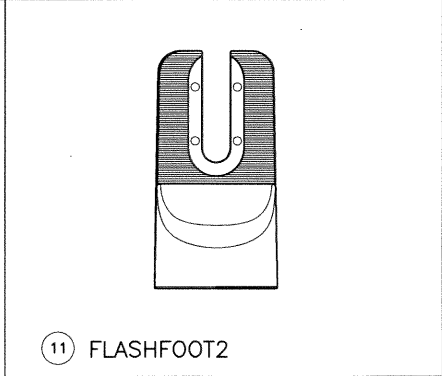
⑥A XR-1000 RAIL SPLICE



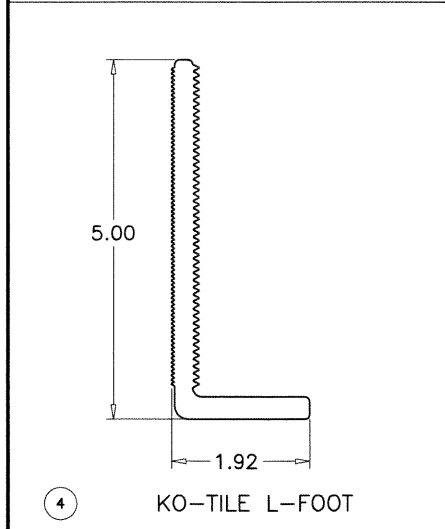
③ L FOOT



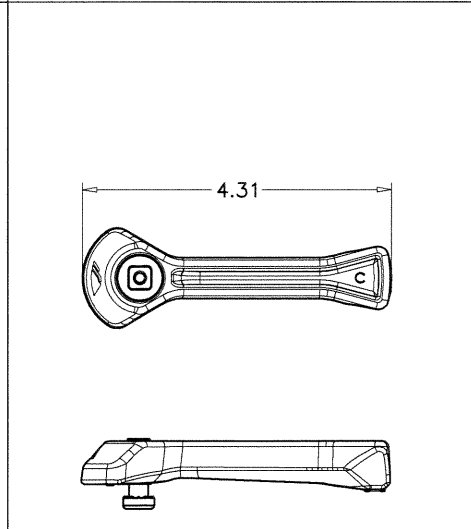
⑧ STOPPER SLEEVE



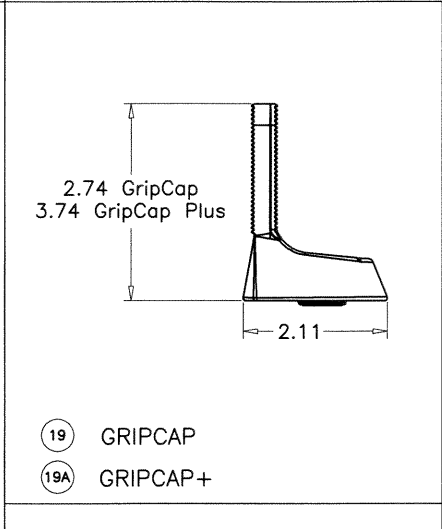
⑪ FLASHFOOT2



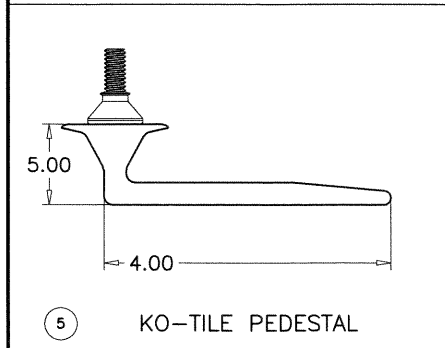
④ KO-TILE L-FOOT



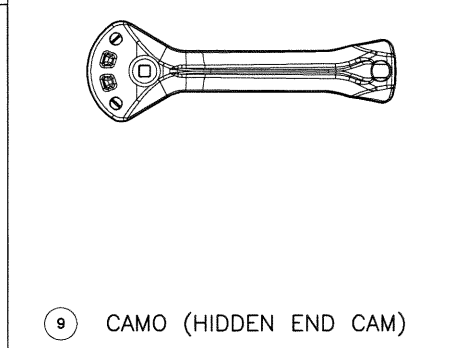
⑨ CAMO (HIDDEN END CAM)



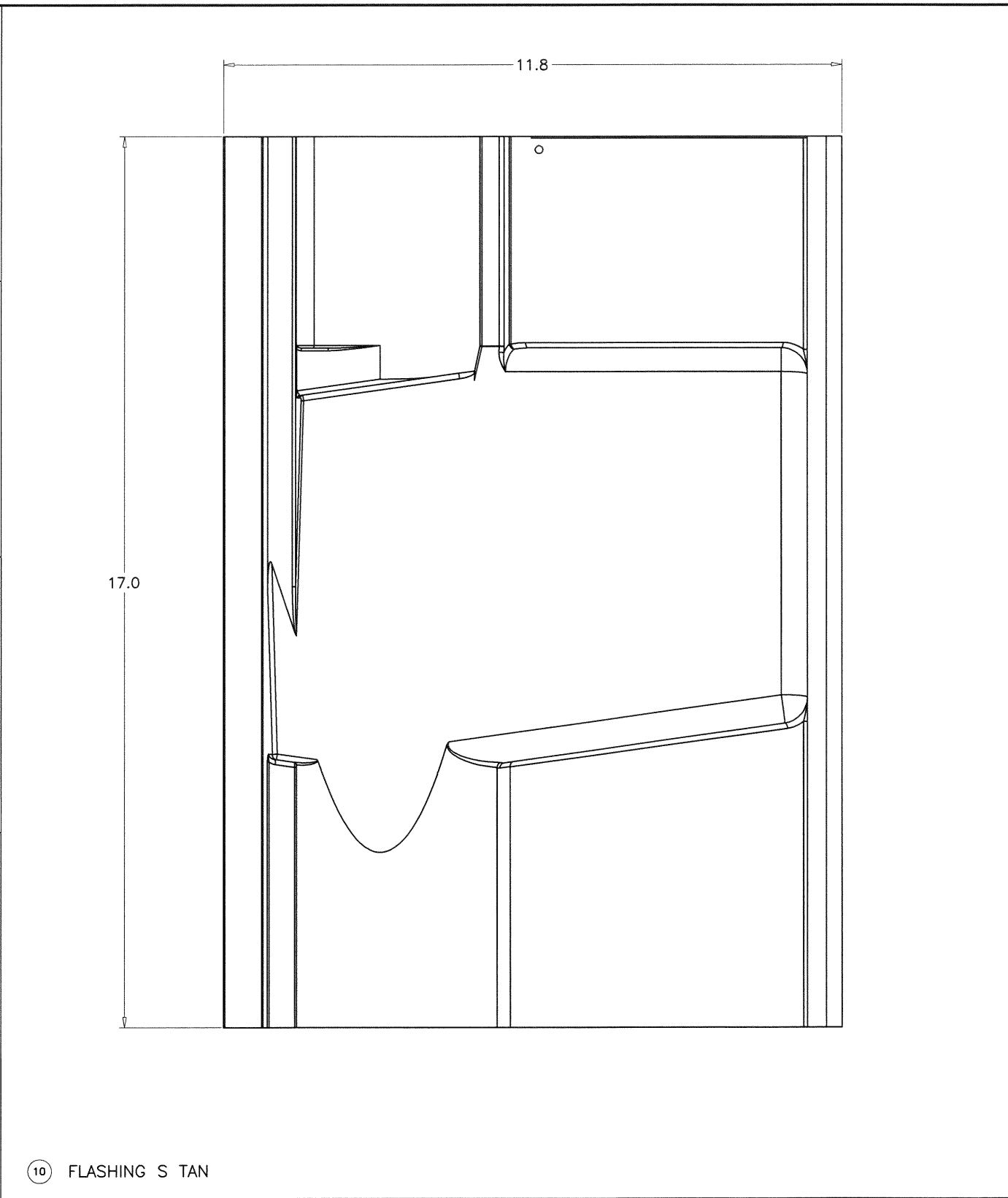
⑲ GRIPCAP  
⑲A GRIPCAP+



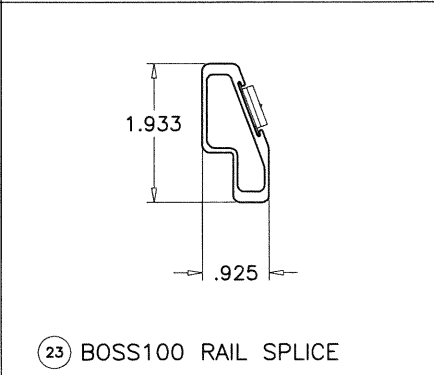
⑤ KO-TILE PEDESTAL



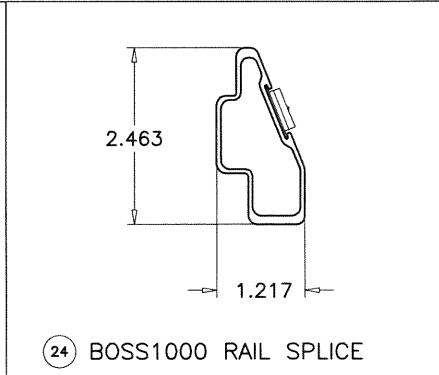
⑳ BOSS10 RAIL SPLICE



⑩ FLASHING S TAN



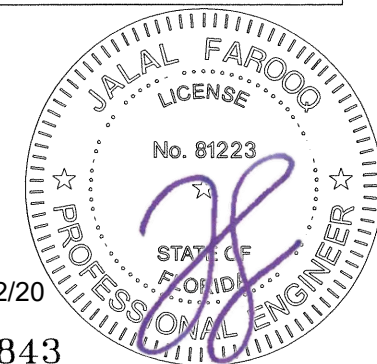
㉓ BOSS100 RAIL SPLICE



㉔ BOSS1000 RAIL SPLICE

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FL #29843



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**AL-FAROOQ CORPORATION**  
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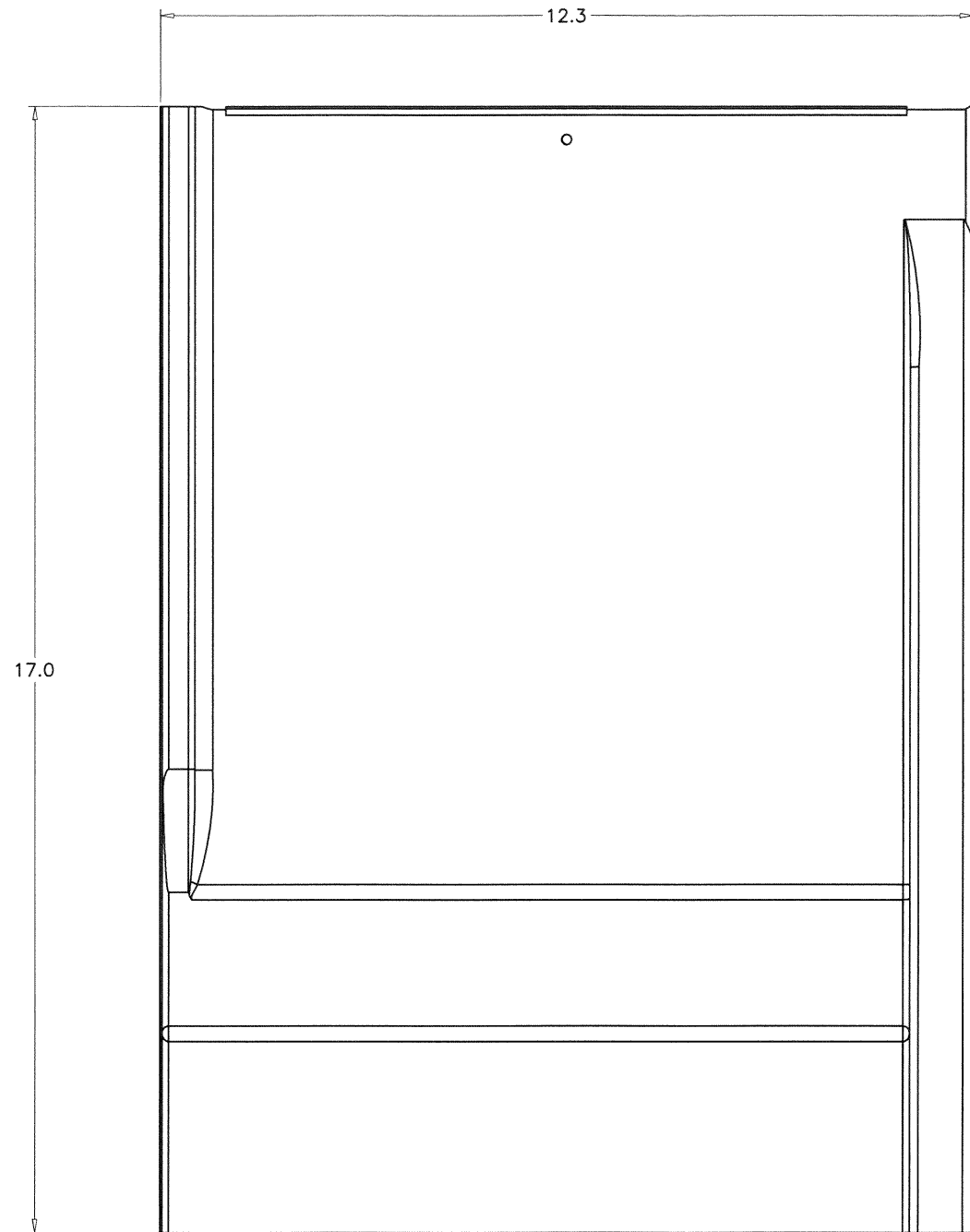
FLUSH MOUNT SOLAR PV RACKING SYSTEM (N.I.)  
**IRONRIDGE, INC.**  
28357 Industrial Blvd.  
Hayward, CA. 94545  
Phone: (800) 227-9523 Fax: (510) 259-9747

no	date	by	description
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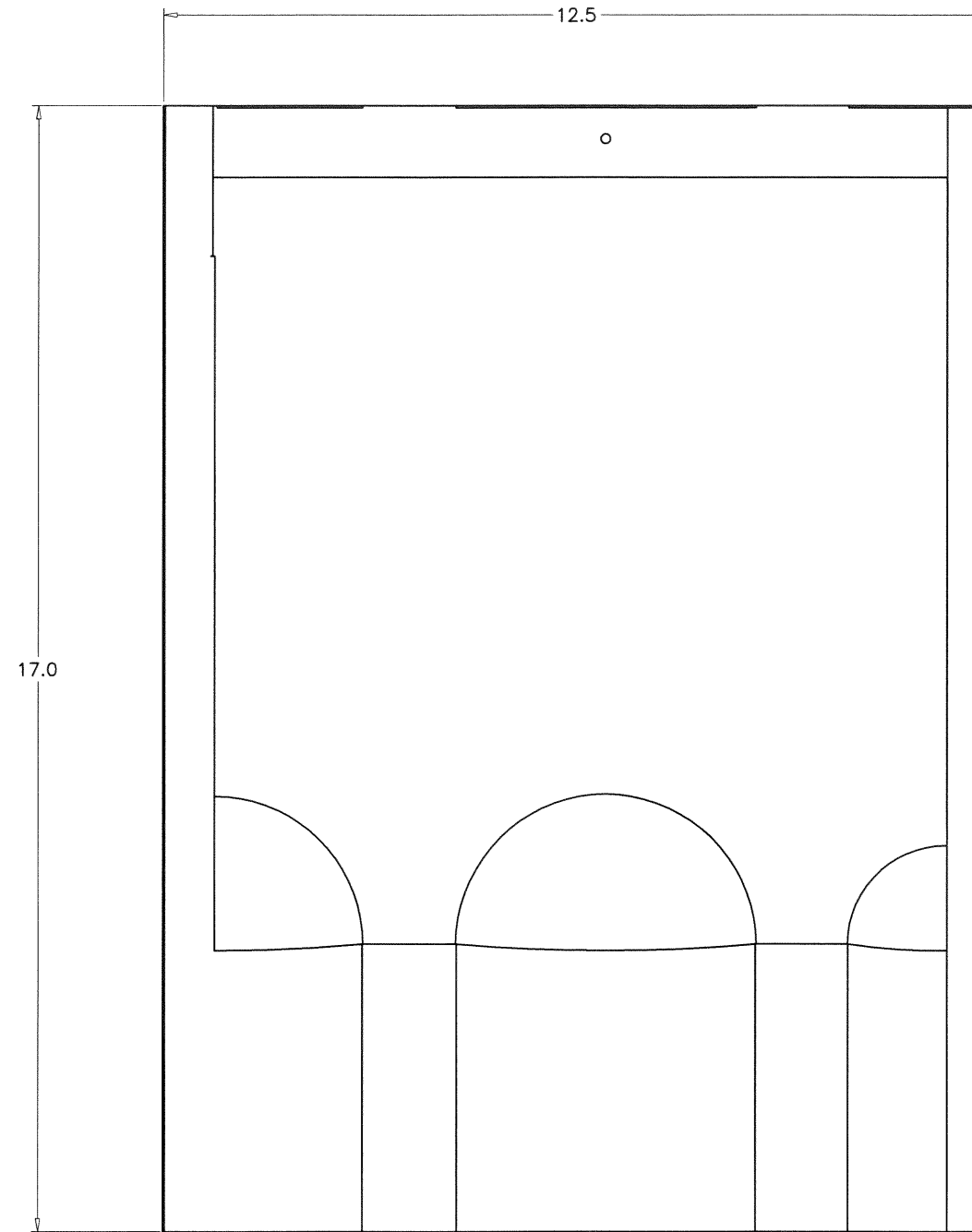
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chk. by:

drawing no.  
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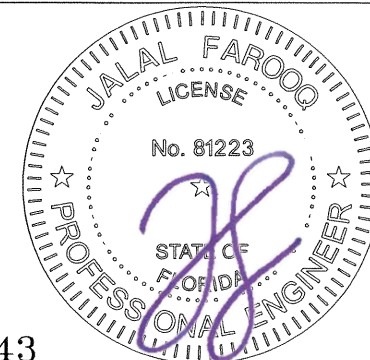




10A FLASHING FLAT TAN

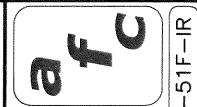


10B FLASHING W TAN



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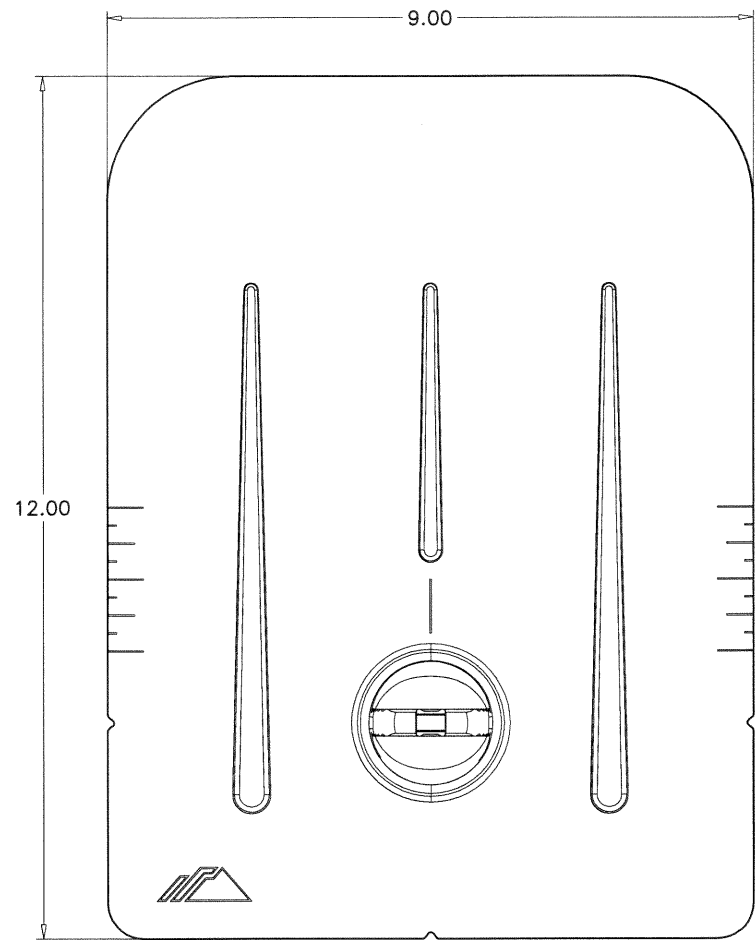
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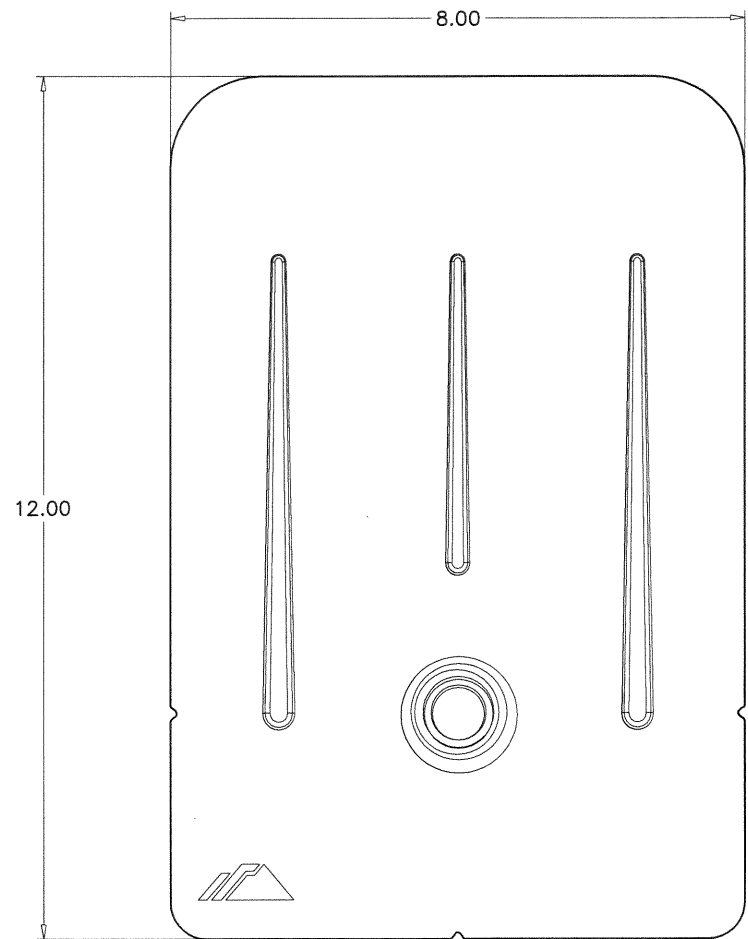
drawing no.  
**19-51F**

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20 FLASHFOOT2 FLASHING

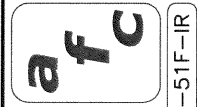


21 FLASHVUE FLASHING



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FL #29843

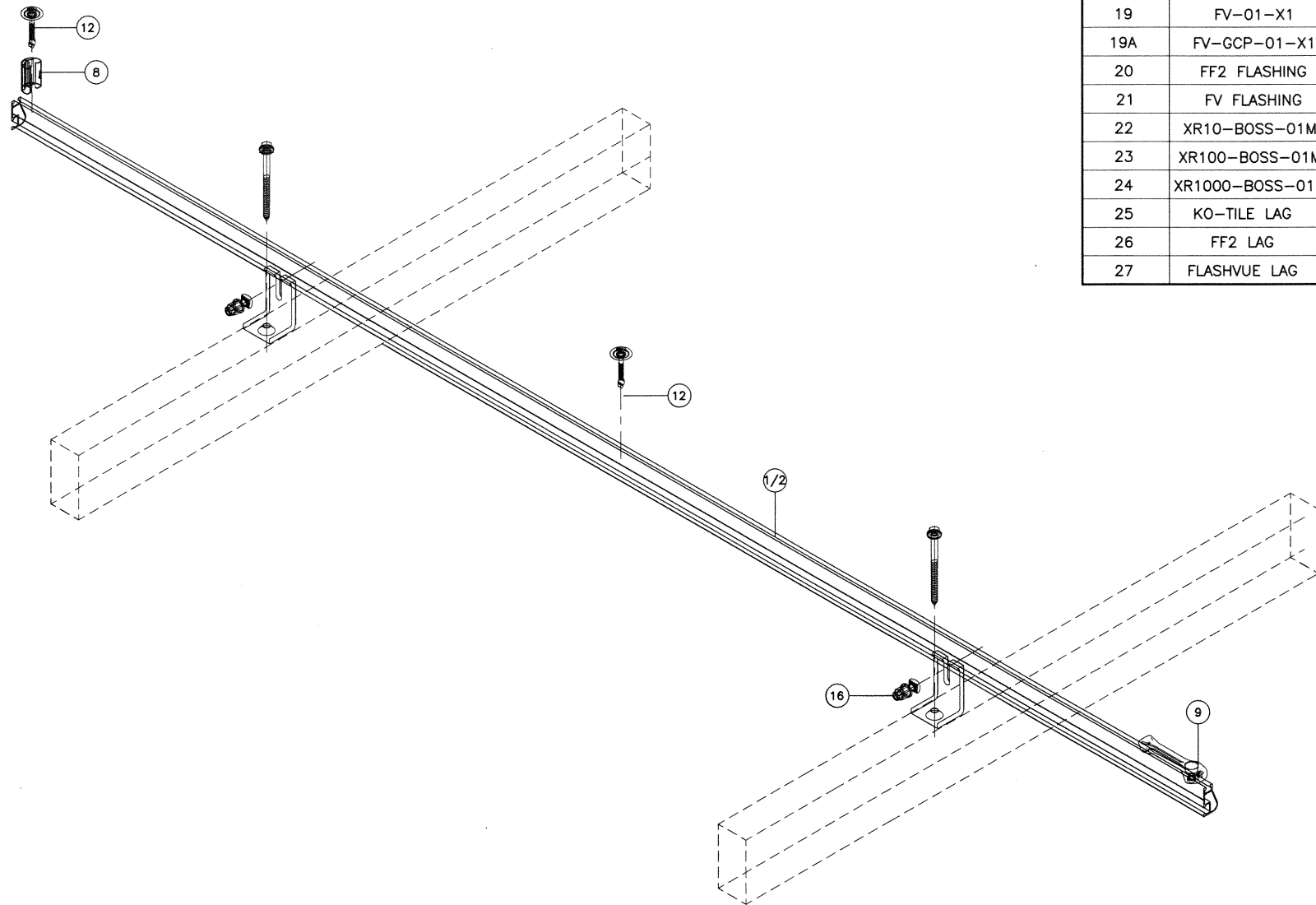


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no	date	by	description		
A	10.09.20	ML	UPDATED TO 2020 FBC	MLS	

drawing no.  
**19-51F**  
 sheet 14 of 15



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	XR-100	AS REQD.	RAIL	6000 SERIES ALUM (Fy MIN. 34 KSI)
1A	XR-1000	AS REQD.	RAIL	6000 SERIES ALUM (Fy MIN. 34 KSI)
2	XR-10	AS REQD.	RAIL	6000 SERIES ALUM (Fy MIN. 34 KSI)
3	LFT-03	AS REQD.	L FOOT ATTACHMENT	6000 SERIES ALUM
4	L-1X5	AS REQD.	KO-TILE L-FOOT	6000 SERIES ALUM
5	PEDESTAL 1	AS REQD.	KO-TILE PEDESTAL	6000 SERIES ALUM
6	XR-10-SPLC-MI	AS REQD.	XR-100 RAIL SPLICE	6000 SERIES ALUM (Fy MIN. 34 KSI)
6A	XR-100-SPLC-MI	AS REQD.	XR-1000 RAIL SPLICE	6000 SERIES ALUM (Fy MIN. 34 KSI)
7	XR-1000-SPLC-MI	AS REQD.	XR-10 RAIL SPLICE	6000 SERIES ALUM (Fy MIN. 34 KSI)
8	UFO-STP	AS REQD.	STOPPER SLEEVE	6000 SERIES ALUM
9	CAMO-01-MI	AS REQD.	CAMO (HIDDEN END CAM)	300 SERIES ALUM & ST
10	KOF-S01-T1	AS REQD.	TILE REPLACEMENT FLASHING S TAN	1000 SERIES ALUM
10A	KOF-F01-T1	AS REQD.	TILE REPLACEMENT FLASHING FLAT TAN	1000 SERIES ALUM
10B	KOF-W01-T1	AS REQD.	TILE REPLACEMENT FLASHING W TAN	1000 SERIES ALUM
11	FM-FF2-001(B)	AS REQD.	FLASHFOOT2	300 & 3000 SERIES ALUM, 300 SERIES ST
12	UFO-CL-01	AS REQD.	UNIVERSAL MODULE CLAMP FASTENER	3000 SERIES ST/ST
13	KO-TILE SETSCREW	AS REQD.	5/16-18 X 1.5 SCREW	ST/ST
14	KO-TILE HRDW	AS REQD.	5/16-18 X 1.5 NUT & WASHER	ST/ST
15	KO-TILE SEAL	AS REQD.	SIMPLE SEAL	EDPM
16	BHW-SQ-02-A1	AS REQD.	SQUARE BOLT BONDING HARDWARE	ST/ST
17	BHW-TB-02-A1	AS REQD.	T-BOLT BONDING HARDWARE	ST/ST
18	XR SPLICE SCREW	4/ SPLICE	12-14 X 5/8" SELF DRILLING SCREW	ST
19	FV-01-X1	AS REQD.	FLASHVUE (GRIPCAP)	300 & 3000 SERIES ALUM, 300 SERIES ST
19A	FV-GCP-01-X1	AS REQD.	GRIPCAP+	300 & 3000 SERIES ALUM, 300 SERIES ST
20	FF2 FLASHING	AS REQD.	FLASHFOOT2 FLASHING	1000 SERIES ALUM
21	FV FLASHING	AS REQD.	FLASHVUE FLASHING	1000 SERIES ALUM
22	XR10-BOSS-01M1	AS REQD.	BOSS10 RAIL SPLICE	6000 SERIES ALUM (Fy MIN. 34 KSI)
23	XR100-BOSS-01M1	AS REQD.	BOSS100 RAIL SPLICE	6000 SERIES ALUM (Fy MIN. 34 KSI)
24	XR1000-BOSS-01M1	AS REQD.	BOSS1000 RAIL SPLICE	6000 SERIES ALUM (Fy MIN. 34 KSI)
25	KO-TILE LAG	AS REQD.	5/16" Ø X 4" HEX HEAD LAG SCREW	ZINC PLATED STEEL OR S/S
26	FF2 LAG	AS REQD.	5/16" Ø X 4.75" HEX HEAD LAG SCREW	ZINC PLATED STEEL OR S/S
27	FLASHVUE LAG	AS REQD.	5/16" Ø X 4.25" HEX HEAD LAG SCREW	ZINC PLATED STEEL OR S/S

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