

ROOF TOP PV MOUNTING SYSTEM
WITH SkipRail CLAMP

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

THIS PRODUCT APPROVAL IS FOR THE ROOF TOP PV MOUNTING SYSTEM AS SHOWN ON THESE DRAWINGS. ROOF DETAILS, UPLIFT, SLOPE, ROOF TRUSSES AND OTHER ELEMENTS SHALL BE DESIGNED BY A FLORIDA REGISTERED ENGINEER AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. ENGINEER OF RECORD TO VERIFY THAT ROOF MEMBERS CAN SUPPORT THE PV MODULE ARRAY UNDER ALL CODE LEVEL LOADING CONDITIONS. INSTALLER TO MAINTAIN THE WATERPROOF INTEGRITY OF THE ROOF.

INSTALLATION OF PV PANEL ACCESSORIES SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF FLORIDA BUILDING CODE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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 COVERING.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'. SOLAR PANELS TO BE INSTALLED PARALLEL TO THE ROOF SURFACE WITH A TOLERANCE OF LESS THAN 2 DEGREES.

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1

DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2

SELECT LIGHT RAIL OR MAX. RAIL FOR REQUIRED LOADS FROM LANDSCAPE OR PORTRAIT RAIL CAPACITY CHARTS SHOWN ON SHEET 9.
- STEP 3

VERIFY HIDDEN & MULTI-CLAMP CAPACITY USING CHARTS ON SHEET 10.
- STEP 4

FOR SkipRail CLAMP CAPACITY USE CHARTS ON SHEET 11.
- STEP 5

SELECT ROOF MOUNT TYPE CAPACITY FOR PORTRAIT INSTALLATION USING CHARTS ON SHEET 12 AND LANDSCAPE INSTALLATION USING CHARTS ON SHEET 13 WITH RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 6

THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

PV PANELS NOT PART OF THIS APPROVAL.
FOR PANEL DETAILS, GENERAL NOTES, COMPONENT SIZES, FIRE AND ELECTRICAL SAFETY STANDARDS, PANEL CONNECTION TO MOUNTS AND INSTALLATION REQUIREMENTS/LIMITATIONS SEE CORRESPONDING FLA. APPROVAL DWGS.

Sealed: 8/14/2024

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.



FL #46082

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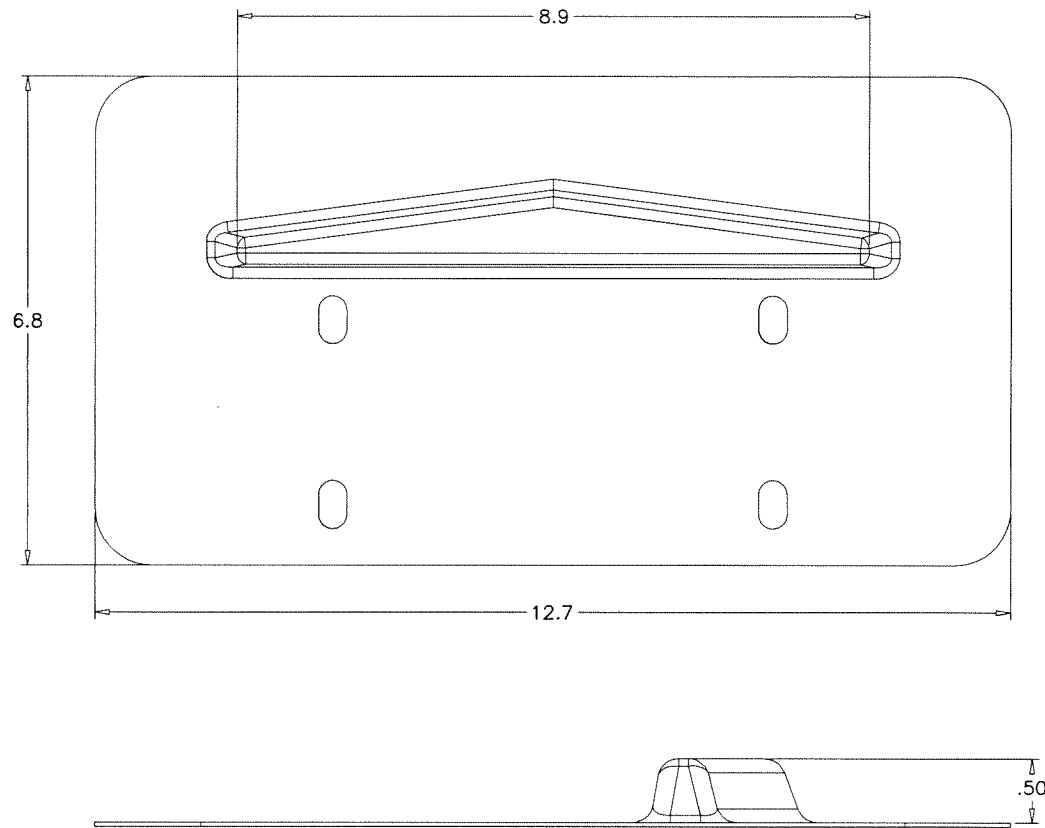
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FBPE #3538

SOLAR-RACK\23-64F-PS

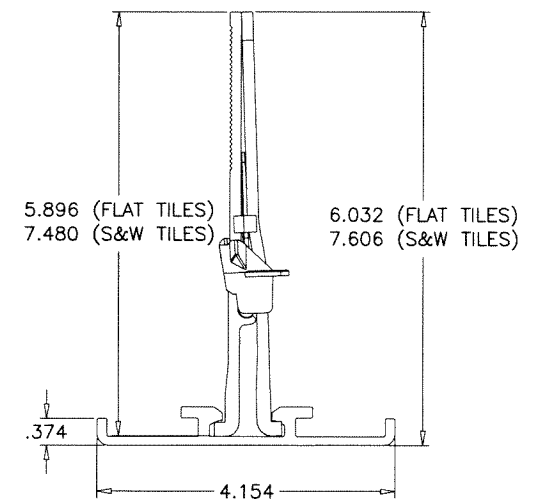
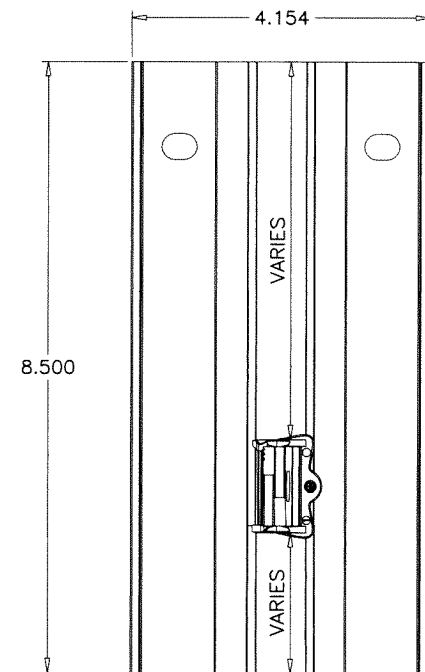
ROOF TOP PV MOUNTING SYS. WITH SkipRail CLAMP

Pegasus Solar Inc.
506 West Ohio Avenue
Richmond CA. 94804
Phone: (510) 210-3797
www.pegasussolar.com

revisions:	
no	date
A	01.08.24
B	07.12.24
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Butyl-Foot ANCHORS REV.	
INSTAFASH 2 ADDED	
date:	12-22-23
scale:	-
dr.	TARIQ
chk.	by:
drawing	no.
23-64F	
sheet	1 of 18



BASE FLASHING (OPTIONAL)



SCISSOR MOUNT ASSEMBLY
6000 SERIES ALUMINUM
(Fy MIN. = 35.0 KSI)
(Fu MIN. = 38.0 KSI)



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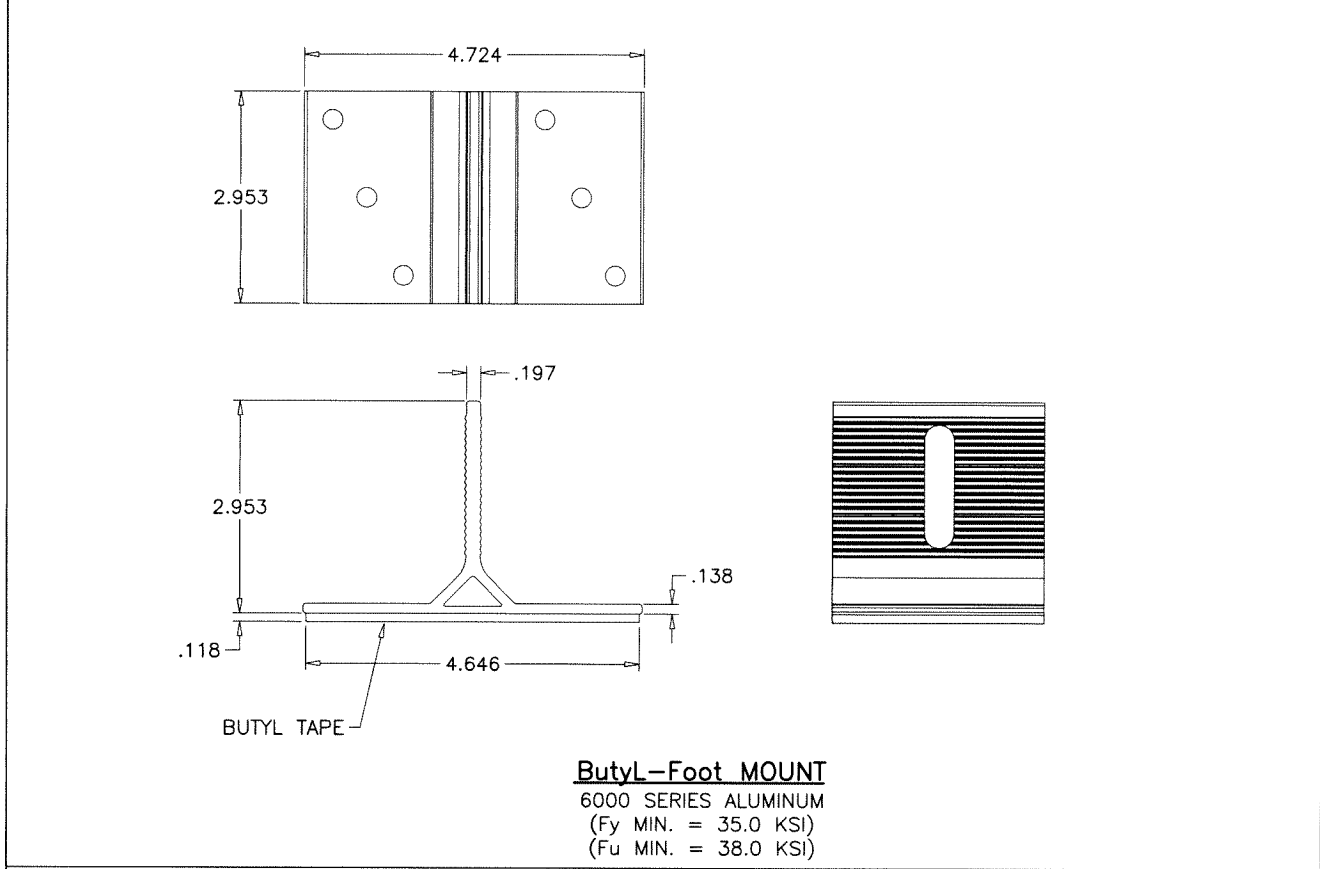
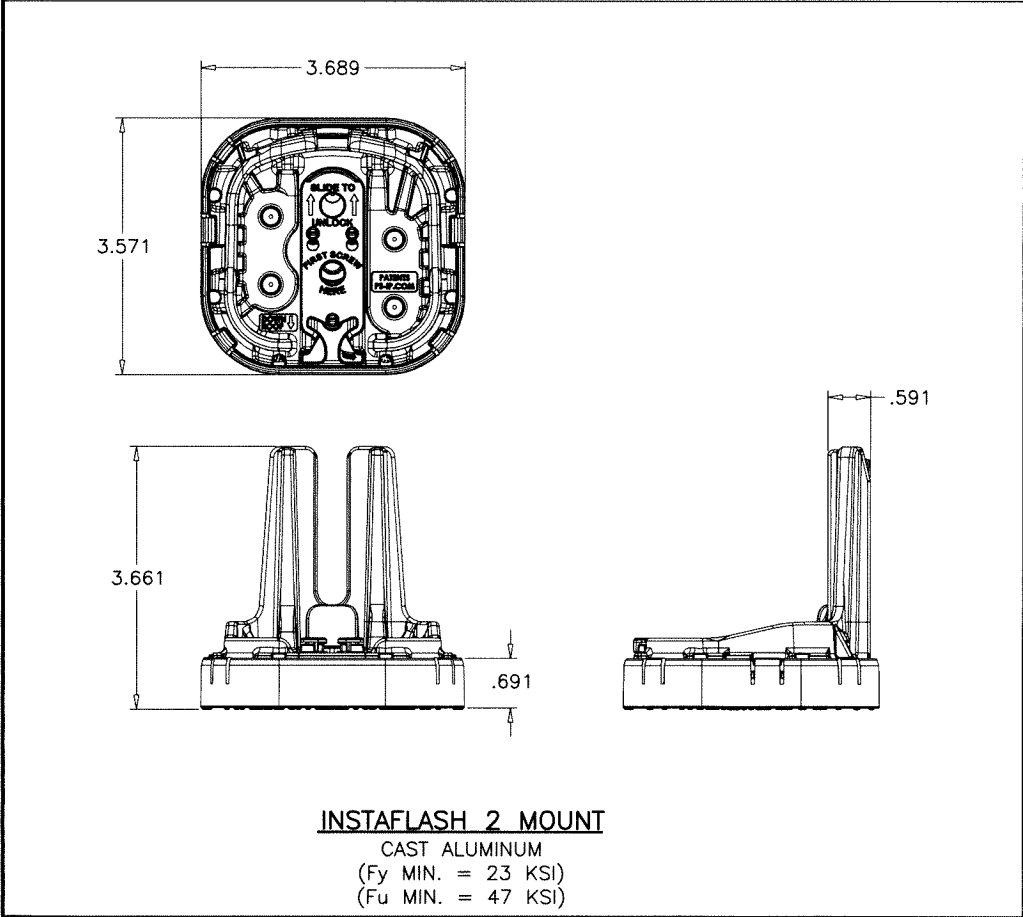
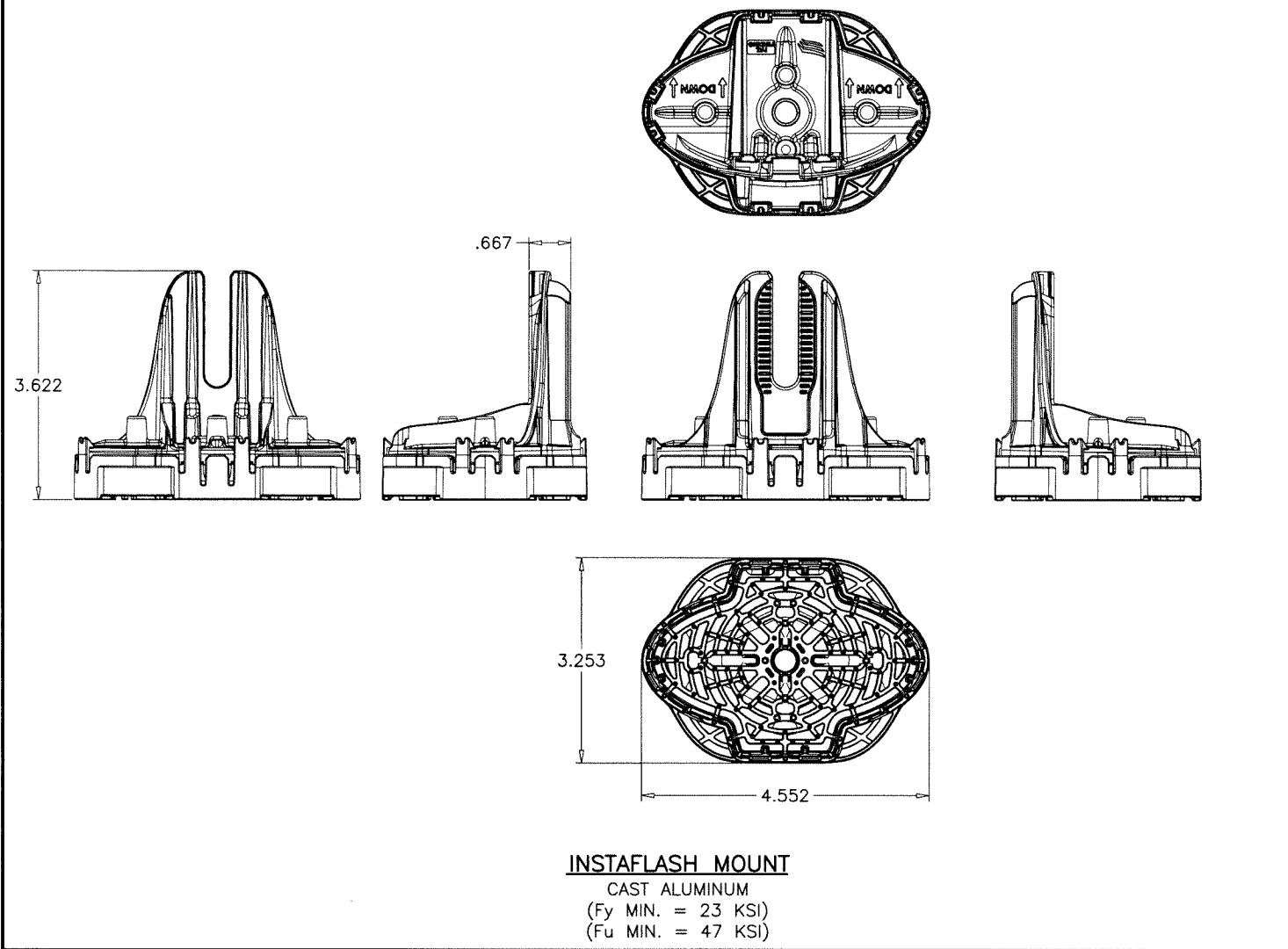
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sheet	3 of 18



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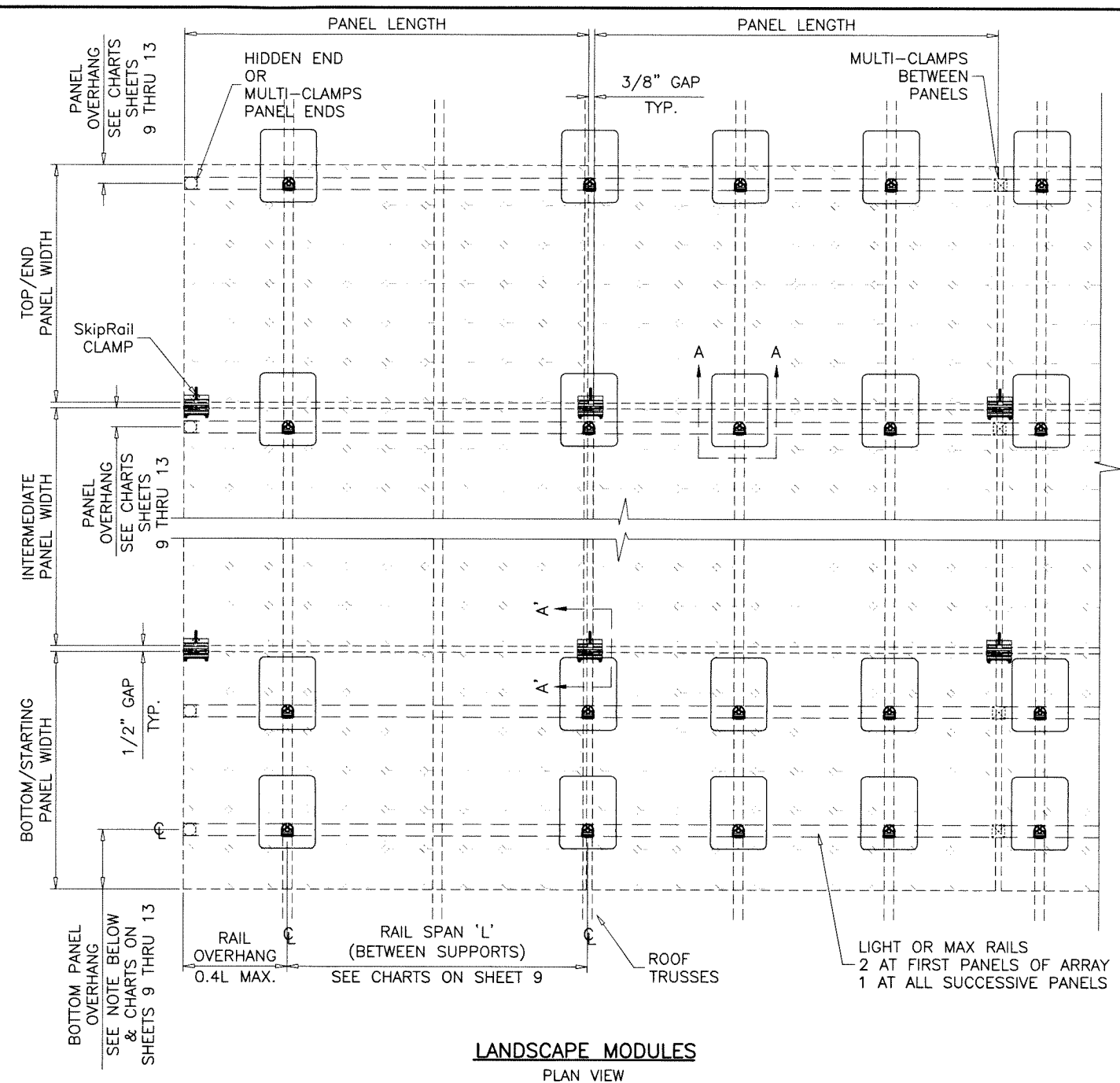
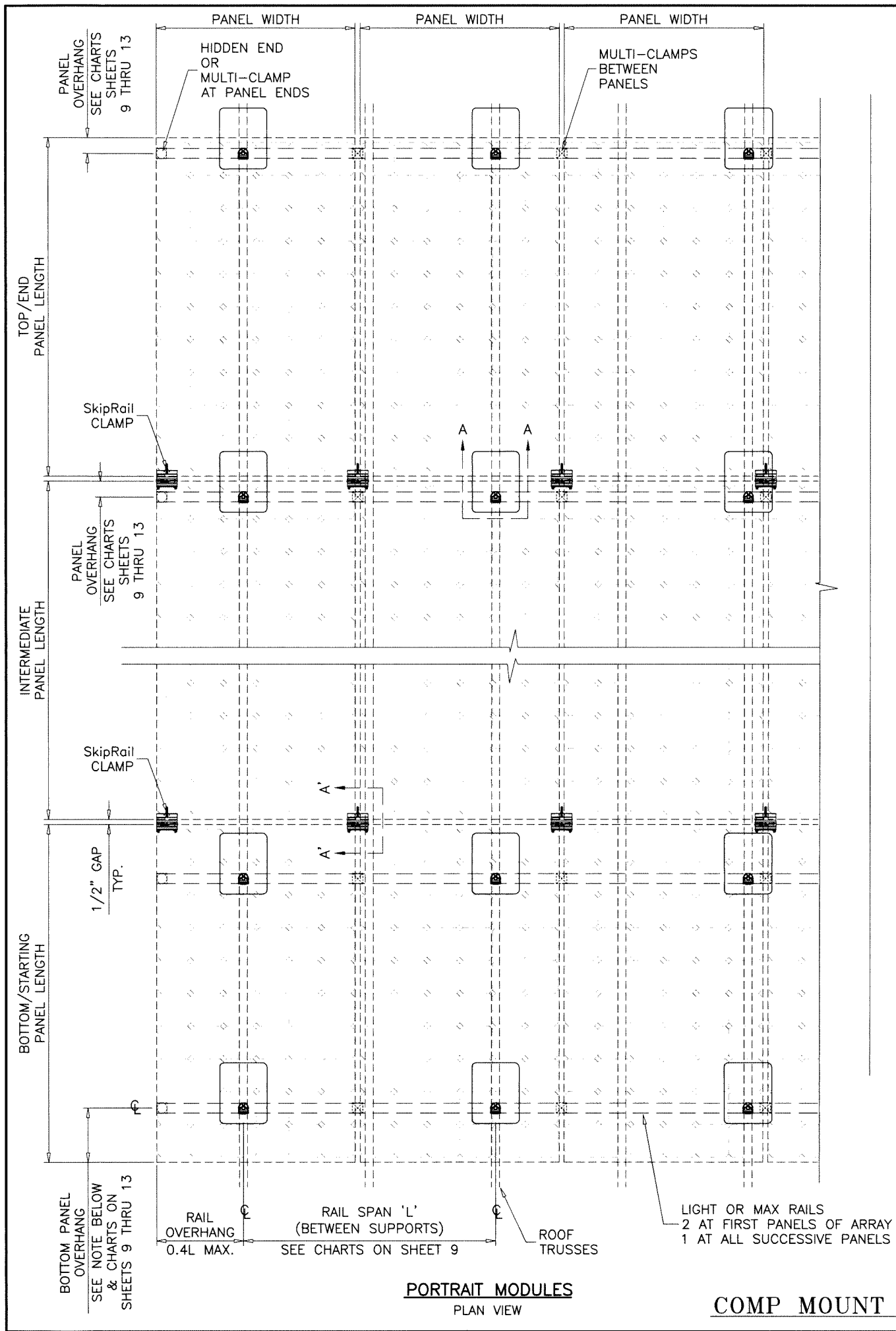
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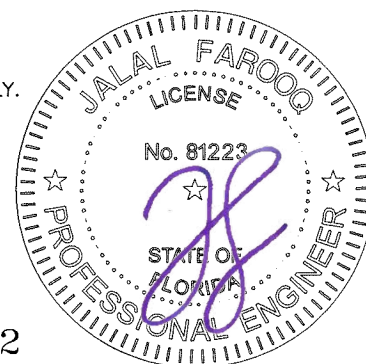
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23-64F

sheet 4 of 18



NOTES:
 BOTTOM/STARTING PANEL OVERHANG AS PER PANEL MANUFACTURER'S INSTRUCTIONS. SHOULD BE EQUAL ON BOTH SIDES OF PANELS
 RAILS CAN BE JOINED WITH 6.9" LONG SPLICE TO ACHIEVE REQUIRED LENGTHS. SPLICE JOINTS TO BE ANYWHERE ALONG THE RAIL EXCEPT NO PART OF THE SPLICE SHOULD BE WITHIN THE RAIL CANTILEVER.
 A COMBINATION OF LANDSCAPE OR PORTRAIT MODULES IN ANY GIVEN ARRAY IS ALLOWED. LOWER CAPACITY FROM LANDSCAPE OR PORTRAIT MODULE CHARTS WILL APPLY.



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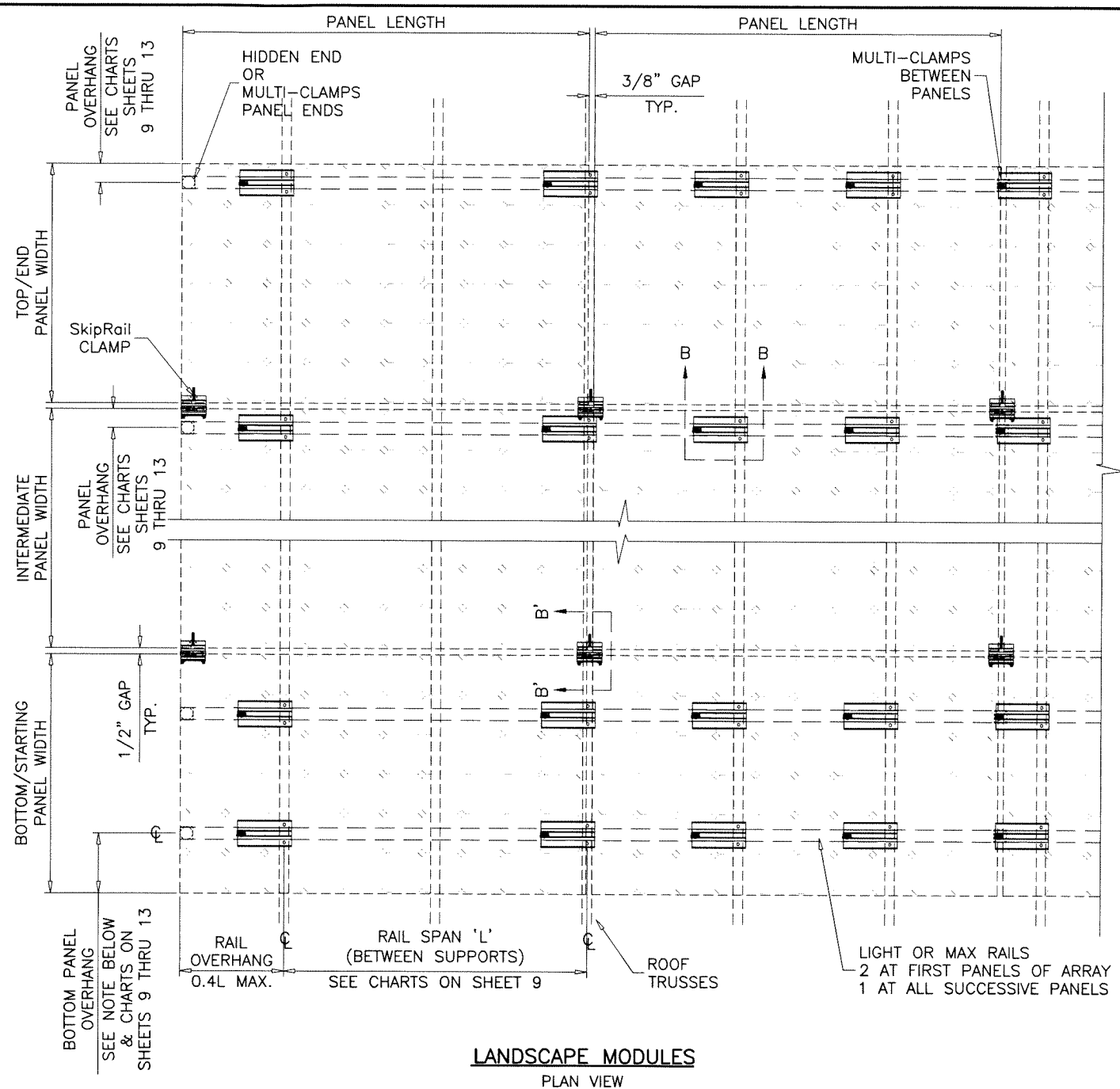
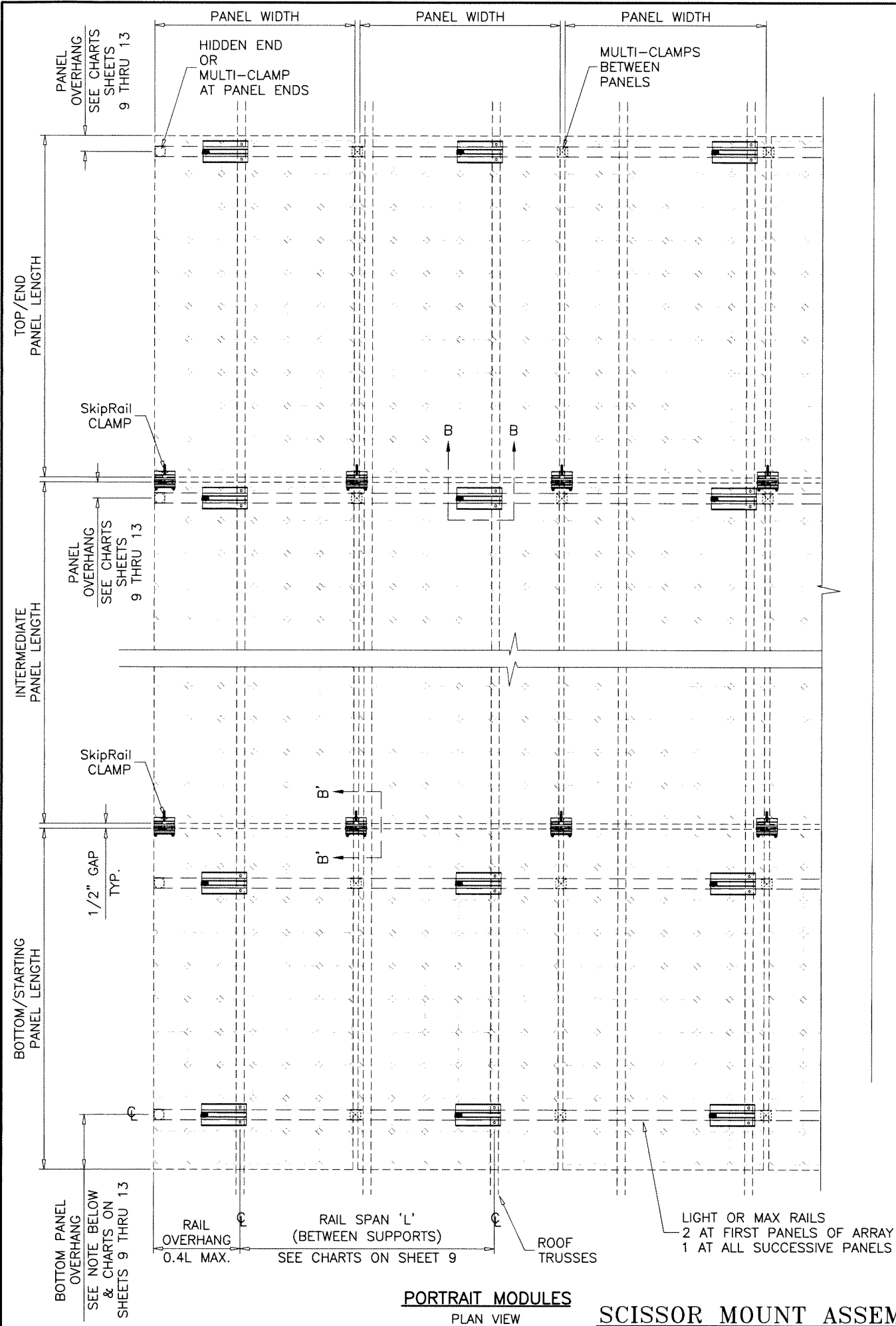
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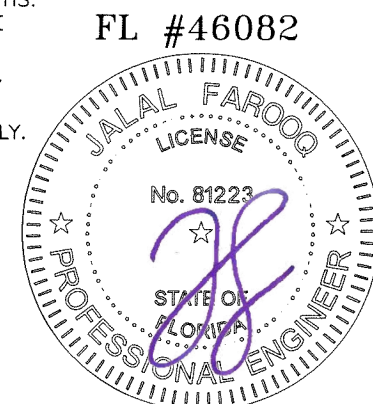
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23-64F
 sheet 5 of 18



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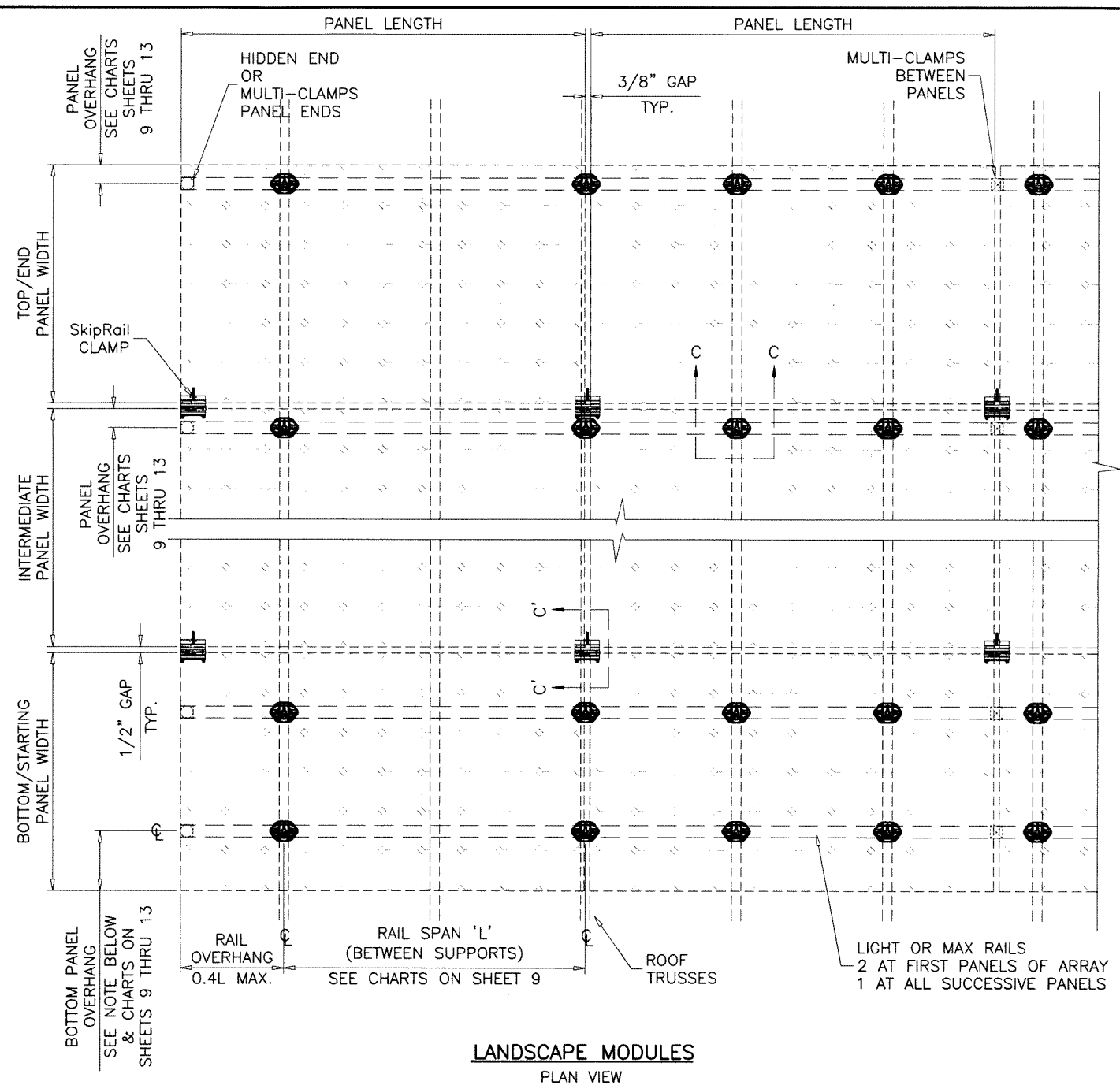
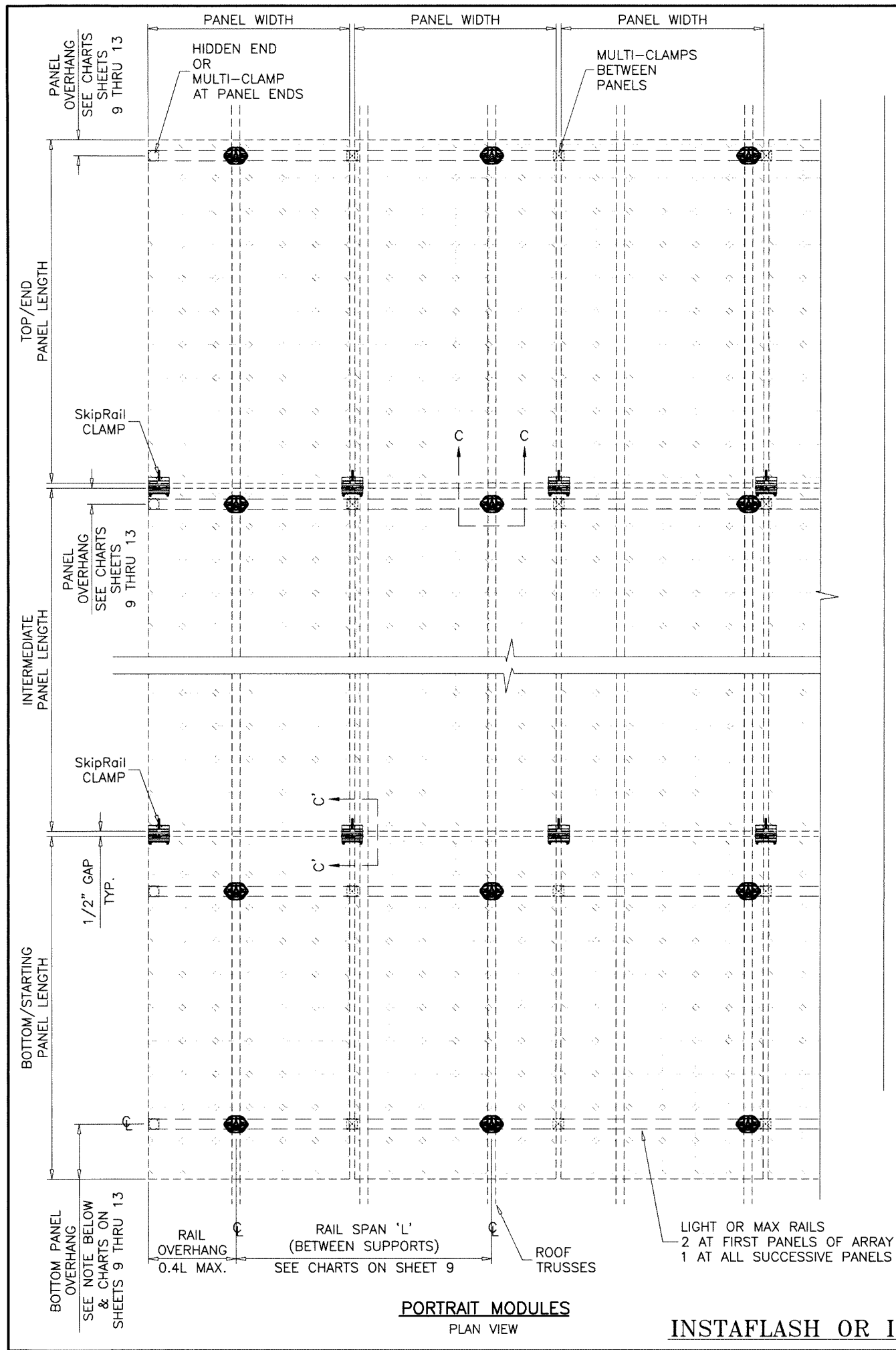
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SCISSOR MOUNT ASSEMBLY WITH SkipRail CLAMP

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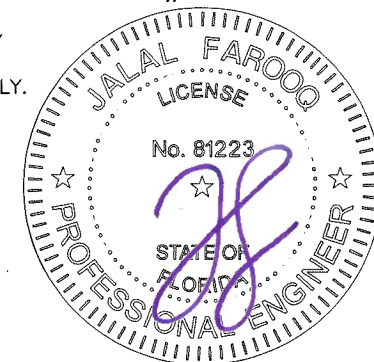
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NOTES:
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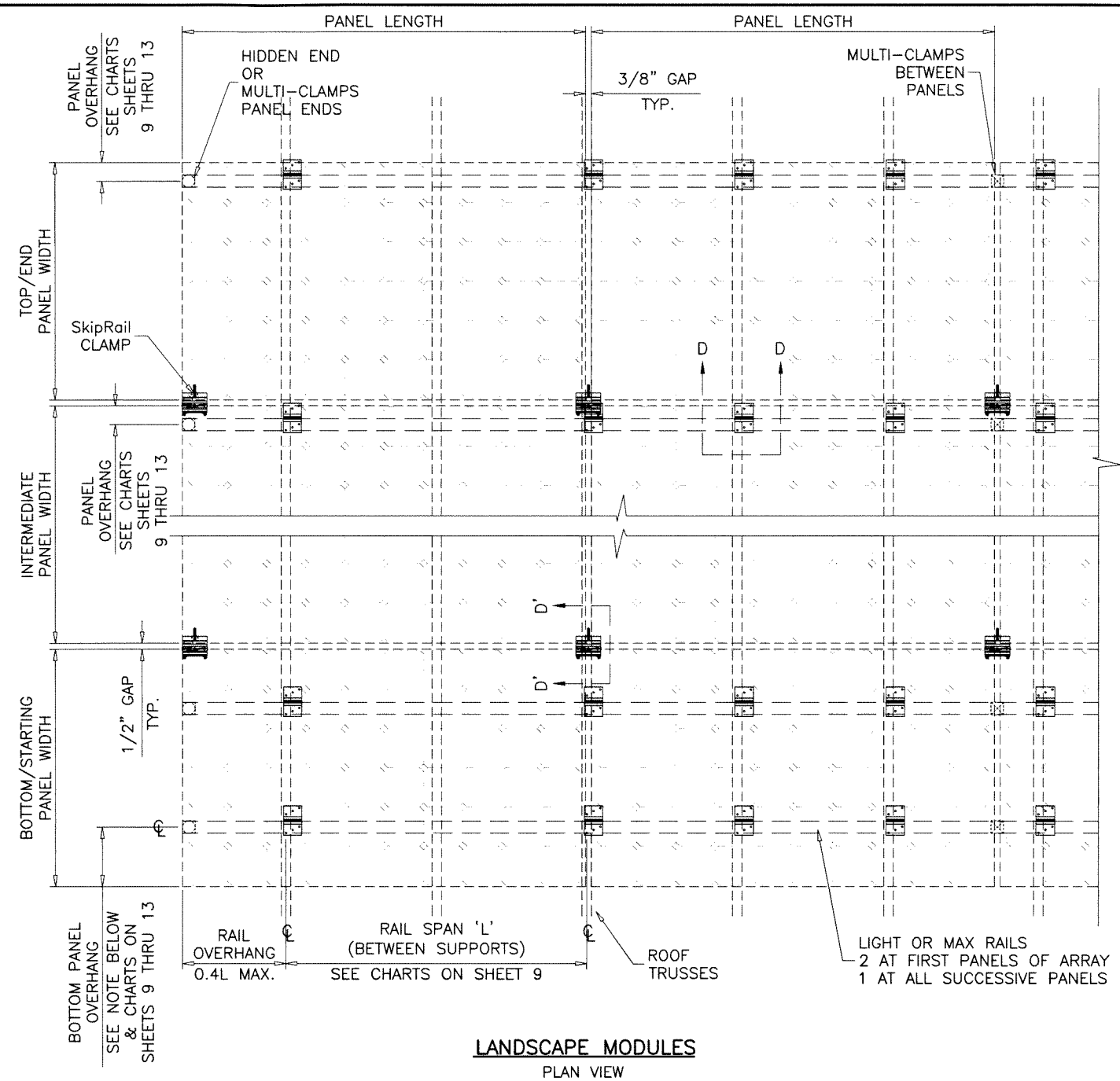
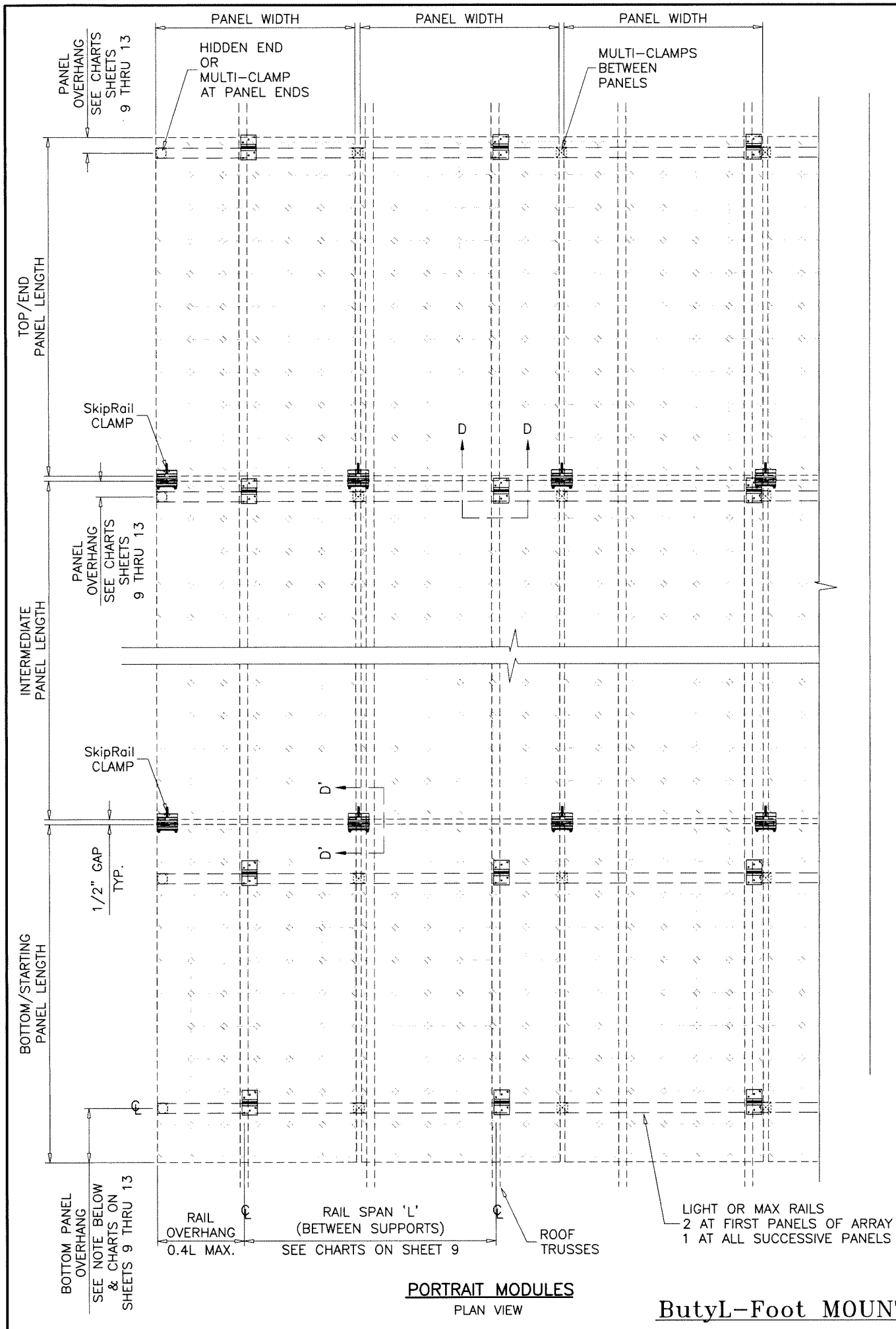
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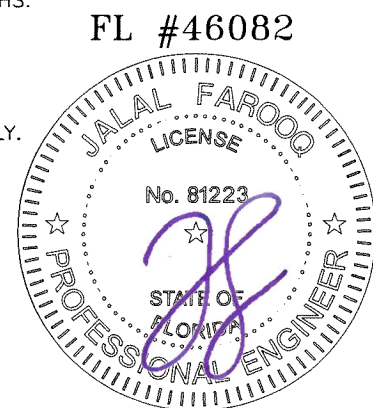
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sheet 7 of 18

INSTAFLASH OR INSTAFLASH 2 MOUNT WITH SkipRail CLAMP



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23-64F
 sheet 8 of 18

ButyL-Foot MOUNT WITH SkipRail CLAMP

LIGHT RAIL & MAX. RAIL

RAILS DESIGN LOAD CAPACITY – PSF (PORTRAIT MODULES)												
PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS		ROOF SLOPES UP TO 7°		ROOF SLOPES 8° TO 20°		ROOF SLOPES 21° TO 27°		ROOF SLOPES 28° TO 45°	
			LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL
69"	3"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
		24"	48.9	55.0	48.4	55.0	47.2	55.0	46.6	55.0	44.8	55.0
		32"	37.7	55.0	37.1	55.0	36.0	55.0	35.4	55.0	33.6	55.0
		48"	26.4	44.4	25.9	43.9	24.8	43.0	24.1	42.4	22.4	40.8
		64"	20.8	34.3	20.3	33.8	19.2	32.9	18.5	32.3	16.8	30.7
		72"	19.0	30.9	18.4	30.5	17.3	29.5	16.7	28.9	14.9	27.3
	11"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
		24"	43.4	55.0	42.9	55.0	41.8	55.0	41.1	55.0	39.3	55.0
		32"	33.5	55.0	33.0	55.0	31.9	55.0	31.3	55.2	29.5	53.6
		48"	23.7	39.5	23.2	39.0	22.1	38.0	21.4	37.4	19.6	35.8
		64"	18.8	30.6	18.2	30.1	17.1	29.2	16.5	28.6	14.7	27.0
		72"	17.1	27.6	16.6	27.2	15.5	26.2	14.8	25.6	13.1	24.0
	20"	16"	53.8	55.0	53.3	55.0	52.2	55.0	51.5	55.0	49.8	55.0
		24"	37.2	55.0	36.7	55.0	35.6	55.0	34.9	55.0	33.2	55.0
		32"	28.9	48.8	28.4	48.4	27.3	47.4	26.6	46.8	24.8	45.2
		48"	20.6	33.9	20.1	33.4	19.0	32.5	18.3	31.9	16.5	30.3
		64"	16.5	26.4	15.9	26.0	14.8	25.0	14.2	24.4	12.4	22.8
		72"	15.1	23.9	14.5	23.5	13.4	22.5	12.8	21.9	11.0	20.3
75.7"	3"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
		24"	44.9	55.0	44.4	55.0	43.3	55.0	42.6	55.0	40.8	55.0
		32"	34.7	55.0	34.2	55.0	33.0	55.0	32.4	55.0	30.6	55.0
		48"	24.5	40.8	23.9	40.4	22.8	39.4	22.2	38.8	20.4	37.2
		64"	19.3	31.6	18.8	31.2	17.7	30.2	17.0	29.6	15.3	28.0
		72"	17.6	28.5	17.1	28.1	16.0	27.1	15.3	26.5	13.6	24.9
	12"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	53.7	55.0
		24"	39.9	55.0	39.4	55.0	38.1	55.0	37.4	55.0	35.6	55.0
		32"	30.9	52.5	30.4	52.0	29.0	50.8	28.3	50.2	26.6	48.6
		48"	22.0	36.3	21.4	35.9	19.9	34.6	19.3	34.0	17.5	32.3
		64"	17.5	28.2	16.9	27.8	15.4	26.4	14.7	25.8	12.9	24.2
		72"	16.0	25.5	15.4	25.1	13.8	23.6	13.1	23.0	11.3	21.4
	22"	16"	49.4	55.0	48.9	55.0	47.1	55.0	46.4	55.0	44.7	55.0
		24"	34.3	55.0	33.7	55.0	31.9	55.0	31.2	55.0	29.4	54.1
		32"	26.7	44.9	26.2	44.4	24.2	42.7	23.5	42.1	21.7	40.4
		48"	19.1	31.2	18.6	30.8	16.6	29.0	15.9	28.4	14.1	26.7
		64"	15.4	24.4	14.8	24.0	12.7	22.1	12.0	21.5	10.2	19.8
		72"	14.1	22.2	13.6	21.7	11.3	19.7	10.6	19.1	–	17.4

LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

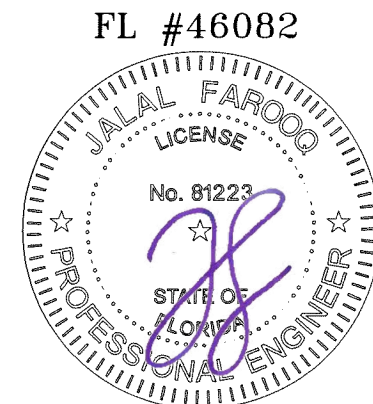
LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (40.9" X 69") AND 72 CELLS PANEL (40.9" X 75.7").

LIGHT RAIL & MAX. RAIL

RAILS DESIGN LOAD CAPACITY – PSF (LANDSCAPE MODULES)												
PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS		ROOF SLOPES UP TO 7°		ROOF SLOPES 8° TO 20°		ROOF SLOPES 21° TO 27°		ROOF SLOPES 28° TO 45°	
			LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL
69"	3"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
		24"	48.2	55.0	47.7	55.0	46.6	55.0	45.9	55.0	44.2	55.0
		32"	37.2	55.0	36.6	55.0	35.5	55.0	34.9	55.0	33.1	55.0
		48"	26.1	43.8	25.6	43.4	24.5	42.4	23.8	41.8	22.1	40.2
		64"	20.6	33.9	20.1	33.4	18.9	32.4	18.3	31.9	16.5	30.2
		72"	18.7	30.5	18.2	30.1	17.1	29.1	16.5	28.5	14.7	26.9
	6-1/2"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
		24"	44.6	55.0	44.1	55.0	43.0	55.0	42.3	55.0	40.6	55.0
		32"	34.5	55.0	33.9	55.0	32.8	55.0	32.2	55.0	30.4	55.0
		48"	24.3	40.6	23.8	40.1	22.7	39.1	22.0	38.6	20.2	36.9
		64"	19.2	31.4	18.7	31.0	17.6	30.0	16.9	29.4	15.2	27.8
		72"	17.5	28.4	17.0	27.9	15.9	26.9	15.2	26.4	13.5	24.8
	12"	16"	54.6	55.0	54.1	55.0	53.0	55.0	52.3	55.0	50.5	55.0
		24"	37.7	55.0	37.2	55.0	36.1	55.0	35.4	55.0	33.7	55.0
		32"	29.3	49.5	28.8	49.1	27.7	48.1	27.0	47.5	25.2	45.9
		48"	20.9	34.4	20.3	33.9	19.2	32.9	18.6	32.4	16.8	30.7
		64"	16.7	26.8	16.1	26.3	15.0	25.3	14.4	24.8	12.6	23.1
		72"	15.2	24.2	14.7	23.8	13.6	22.8	13.0	22.2	11.2	20.6
75.7"	3"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
		24"	44.3	55.0	43.8	55.0	42.7	55.0	42.0	55.0	40.3	55.0
		32"	34.2	55.0	33.7	55.0	32.6	55.0	31.9	55.0	30.2	54.8
		48"	24.2	40.3	23.6	39.8	22.5	38.9	21.9	38.3	20.1	36.7
		64"	19.1	31.2	18.6	30.8	17.5	29.8	16.8	29.2	15.1	27.6
		72"	17.4	28.2	16.9	27.7	15.8	26.8	15.1	26.2	13.4	24.6
	6-1/2"	16"	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
		24"	41.0	55.0	40.5	55.0	39.4	55.0	38.7	55.0	37.0	55.0
		32"	31.8	54.0	31.2	53.5	30.1	52.6	29.5	52.0	27.7	50.4
		48"	22.5	37.3	22.0	36.9	20.9	35.9	20.2	35.3	18.4	33.7
		64"	17.9	29.0	17.4	28.5	16.2	27.6	15.6	27.0	13.8	25.4
		72"	16.3	26.2	15.8	25.8	14.7	24.8	14.0	24.2	12.3	22.6
	12"	16"	50.1	55.0	49.6	55.0	48.5	55.0	47.8	55.0	46.1	55.0
		24"	34.8	55.0	34.2	55.0	33.1	55.0	32.5	55.0	30.7	55.0
		32"	27.1	45.5	26.5	45.1	25.4	44.1	24.8	43.5	23.0	41.9
		48"	19.4	31.7	18.8	31.2	17.7	30.2	17.1	29.7	15.3	28.1
		64"	15.5	24.8	15.0	24.3	13.9	23.3	13.2	22.7	11.5	21.1
		72"	14.3	22.5	13.7	22.0	12.6	21.0	12.0	20.4	10.2	18.8

LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

Sealed: 8/14/2024



AL-FAROOQ CORPORATION
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FBPE #3538

ROOF TOP PV MOUNTING SYS. WITH SkipRail CLAMP

Pegasus Solar Inc.
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www.pegasussolar.com

Revisions:
no date by description

date: 12-22-23
scale: –
dr. by: TARIQ
chk. by:

drawing no.
23-64F
sheet 9 of 18

HIDDEN CLAMP & MULTI-CLAMP

CLAMP DESIGN LOAD CAPACITY – PSF (PORTRAIT MODULES)							
PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS	ROOF SLOPES UP TO 7°	ROOF SLOPES 8° TO 20°	ROOF SLOPES 21° TO 27°	ROOF SLOPES 28° TO 45°
69"	3"	16"	37.8	36.8	35.0	33.9	31.3
		24"	37.8	36.8	35.0	33.9	31.3
		32"	37.8	36.8	35.0	33.9	31.3
		48"	37.8	36.8	35.0	33.9	31.3
		64"	37.8	36.8	35.0	33.9	31.3
		72"	37.8	36.8	35.0	33.9	31.3
	11"	16"	33.6	32.7	30.8	29.8	27.2
		24"	33.6	32.7	30.8	29.8	27.2
		32"	33.6	32.7	30.8	29.8	27.2
		48"	33.6	32.7	30.8	29.8	27.2
		64"	33.6	32.7	30.8	29.8	27.2
		72"	33.6	32.7	30.8	29.8	27.2
	20"	16"	29.0	28.0	26.2	25.2	22.5
		24"	29.0	28.0	26.2	25.2	22.5
		32"	29.0	28.0	26.2	25.2	22.5
		48"	29.0	28.0	26.2	25.2	22.5
		64"	29.0	28.0	26.2	25.2	22.5
		72"	29.0	28.0	26.2	25.2	22.5
75.7"	3"	16"	34.8	33.8	32.0	31.0	28.3
		24"	34.8	33.8	32.0	31.0	28.3
		32"	34.8	33.8	32.0	31.0	28.3
		48"	34.8	33.8	32.0	31.0	28.3
		64"	34.8	33.8	32.0	31.0	28.3
		72"	34.8	33.8	32.0	31.0	28.3
	12"	16"	31.0	30.1	28.2	27.2	24.6
		24"	31.0	30.1	28.2	27.2	24.6
		32"	31.0	30.1	28.2	27.2	24.6
		48"	31.0	30.1	28.2	27.2	24.6
		64"	31.0	30.1	28.2	27.2	24.6
		72"	31.0	30.1	28.2	27.2	24.6
	22"	16"	26.8	25.8	24.0	23.0	20.3
		24"	26.8	25.8	24.0	23.0	20.3
		32"	26.8	25.8	24.0	23.0	20.3
		48"	26.8	25.8	24.0	23.0	20.3
		64"	26.8	25.8	24.0	23.0	20.3
		72"	26.8	25.8	24.0	23.0	20.3

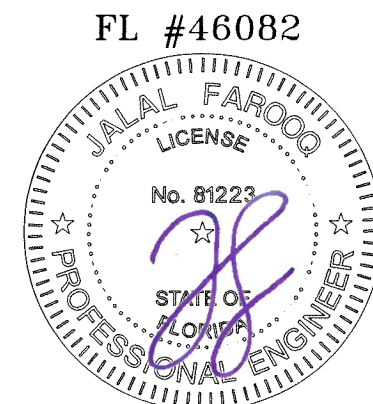
LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

HIDDEN CLAMP & MULTI-CLAMP

CLAMP DESIGN LOAD CAPACITY – PSF (LANDSCAPE MODULES)							
PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS	ROOF SLOPES UP TO 7°	ROOF SLOPES 8° TO 20°	ROOF SLOPES 21° TO 27°	ROOF SLOPES 28° TO 45°
69"	3"	16"	37.3	36.3	34.5	33.5	30.8
		24"	37.3	36.3	34.5	33.5	30.8
		32"	37.3	36.3	34.5	33.5	30.8
		48"	37.3	36.3	34.5	33.5	30.8
		64"	37.3	36.3	34.5	33.5	30.8
		72"	37.3	36.3	34.5	33.5	30.8
	6–1/2"	16"	34.6	33.6	31.8	30.7	28.1
		24"	34.6	33.6	31.8	30.7	28.1
		32"	34.6	33.6	31.8	30.7	28.1
		48"	34.6	33.6	31.8	30.7	28.1
		64"	34.6	33.6	31.8	30.7	28.1
		72"	34.6	33.6	31.8	30.7	28.1
	12"	16"	29.4	28.4	26.6	25.6	22.9
		24"	29.4	28.4	26.6	25.6	22.9
		32"	29.4	28.4	26.6	25.6	22.9
		48"	29.4	28.4	26.6	25.6	22.9
		64"	29.4	28.4	26.6	25.6	22.9
		72"	29.4	28.4	26.6	25.6	22.9
75.7"	3"	16"	34.3	33.4	31.5	30.5	27.9
		24"	34.3	33.4	31.5	30.5	27.9
		32"	34.3	33.4	31.5	30.5	27.9
		48"	34.3	33.4	31.5	30.5	27.9
		64"	34.3	33.4	31.5	30.5	27.9
		72"	34.3	33.4	31.5	30.5	27.9
	6–1/2"	16"	31.9	30.9	29.1	28.0	25.4
		24"	31.9	30.9	29.1	28.0	25.4
		32"	31.9	30.9	29.1	28.0	25.4
		48"	31.9	30.9	29.1	28.0	25.4
		64"	31.9	30.9	29.1	28.0	25.4
		72"	31.9	30.9	29.1	28.0	25.4
	12"	16"	27.1	26.2	24.3	23.3	20.7
		24"	27.1	26.2	24.3	23.3	20.7
		32"	27.1	26.2	24.3	23.3	20.7
		48"	27.1	26.2	24.3	23.3	20.7
		64"	27.1	26.2	24.3	23.3	20.7
		72"	27.1	26.2	24.3	23.3	20.7

LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

Sealed: 8/14/2024



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12-22-23
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dr. by: TARIQ
chk. by:
drawing no.
23-64F
sheet 10 of 18

SOLAR – RACK \ 23 – 64F – PS

SkipRail CLAMP

CLAMP DESIGN LOAD CAPACITY – PSF (PORTRAIT MODULES)							
PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS	ROOF SLOPES UP TO 7°	ROOF SLOPES 8° TO 20°	ROOF SLOPES 21° TO 27°	ROOF SLOPES 28° TO 45°
69"	3"	16"	43.3	43.3	43.2	43.0	42.5
		24"	43.3	43.3	43.2	43.0	42.5
		32"	43.3	43.3	43.2	43.0	42.5
		48"	43.3	43.3	43.2	43.0	42.5
		64"	43.3	43.3	43.2	43.0	42.5
		72"	43.3	43.3	43.2	43.0	42.5
	11"	16"	43.3	43.3	43.2	43.0	42.5
		24"	43.3	43.3	43.2	43.0	42.5
		32"	43.3	43.3	43.2	43.0	42.5
		48"	43.3	43.3	43.2	43.0	42.5
		64"	43.3	43.3	43.2	43.0	42.5
		72"	43.3	43.3	43.2	43.0	42.5
	20"	16"	43.3	43.3	43.2	43.0	42.5
		24"	43.3	43.3	43.2	43.0	42.5
		32"	43.3	43.3	43.2	43.0	42.5
		48"	43.3	43.3	43.2	43.0	42.5
		64"	43.3	43.3	43.2	43.0	42.5
		72"	43.3	43.3	43.2	43.0	42.5
75.7"	3"	16"	39.3	39.3	39.2	39.0	38.6
		24"	39.3	39.3	39.2	39.0	38.6
		32"	39.3	39.3	39.2	39.0	38.6
		48"	39.3	39.3	39.2	39.0	38.6
		64"	39.3	39.3	39.2	39.0	38.6
		72"	39.3	39.3	39.2	39.0	38.6
	12"	16"	39.3	39.3	39.2	39.0	38.6
		24"	39.3	39.3	39.2	39.0	38.6
		32"	39.3	39.3	39.2	39.0	38.6
		48"	39.3	39.3	39.2	39.0	38.6
		64"	39.3	39.3	39.2	39.0	38.6
		72"	39.3	39.3	39.2	39.0	38.6
	22"	16"	39.3	39.3	39.2	39.0	38.6
		24"	39.3	39.3	39.2	39.0	38.6
		32"	39.3	39.3	39.2	39.0	38.6
		48"	39.3	39.3	39.2	39.0	38.6
		64"	39.3	39.3	39.2	39.0	38.6
		72"	39.3	39.3	39.2	39.0	38.6

LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

SkipRail CLAMP

CLAMP DESIGN LOAD CAPACITY – PSF (LANDSCAPE MODULES)							
PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS	ROOF SLOPES UP TO 7°	ROOF SLOPES 8° TO 20°	ROOF SLOPES 21° TO 27°	ROOF SLOPES 28° TO 45°
69"	3"	16"	44.9	44.9	44.7	44.6	44.0
		24"	44.9	44.9	44.7	44.6	44.0
		32"	44.9	44.9	44.7	44.6	44.0
		48"	44.9	44.9	44.7	44.6	44.0
		64"	44.9	44.9	44.7	44.6	44.0
		72"	44.9	44.9	44.7	44.6	44.0
	6-1/2"	16"	44.9	44.9	44.7	44.6	44.0
		24"	44.9	44.9	44.7	44.6	44.0
		32"	44.9	44.9	44.7	44.6	44.0
		48"	44.9	44.9	44.7	44.6	44.0
		64"	44.9	44.9	44.7	44.6	44.0
		72"	44.9	44.9	44.7	44.6	44.0
	12"	16"	44.9	44.9	44.7	44.6	44.0
		24"	44.9	44.9	44.7	44.6	44.0
		32"	44.9	44.9	44.7	44.6	44.0
		48"	44.9	44.9	44.7	44.6	44.0
		64"	44.9	44.9	44.7	44.6	44.0
		72"	44.9	44.9	44.7	44.6	44.0
75.7"	3"	16"	41.0	40.9	40.8	40.6	40.1
		24"	41.0	40.9	40.8	40.6	40.1
		32"	41.0	40.9	40.8	40.6	40.1
		48"	41.0	40.9	40.8	40.6	40.1
		64"	41.0	40.9	40.8	40.6	40.1
		72"	41.0	40.9	40.8	40.6	40.1
	6-1/2"	16"	41.0	40.9	40.8	40.6	40.1
		24"	41.0	40.9	40.8	40.6	40.1
		32"	41.0	40.9	40.8	40.6	40.1
		48"	41.0	40.9	40.8	40.6	40.1
		64"	41.0	40.9	40.8	40.6	40.1
		72"	41.0	40.9	40.8	40.6	40.1
	12"	16"	41.0	40.9	40.8	40.6	40.1
		24"	41.0	40.9	40.8	40.6	40.1
		32"	41.0	40.9	40.8	40.6	40.1
		48"	41.0	40.9	40.8	40.6	40.1
		64"	41.0	40.9	40.8	40.6	40.1
		72"	41.0	40.9	40.8	40.6	40.1

LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

Sealed: 8/14/2024



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dr. by: TARIQ
chk. by:

drawing no.
23-64F
sheet 11 of 18

SOLAR-RACK\23-64F-PS

COMP MOUNT, SCISSOR MOUNT, INSTAFLASH MOUNT, INSTAFLASH 2 MOUNT & ButyL-Foot MOUNT

ROOF MOUNTS DESIGN LOAD CAPACITY - PSF (PORTRAIT MODULES)

PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS					ROOF SLOPES UP TO 7°					ROOF SLOPES 8° TO 20°					ROOF SLOPES 21° TO 27°					ROOF SLOPES 28° TO 45°				
			COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT
69"	3"	16"	44.3	22.3	43.0	37.5	35.8	41.9	21.1	42.3	36.7	35.5	37.4	18.8	40.9	35.0	35.0	35.0	17.5	40.1	34.1	34.6	29.4	14.3	38.1	31.6	33.4
		24"	44.3	22.3	43.0	37.5	35.8	41.9	21.1	42.3	36.7	35.5	37.4	18.8	40.9	35.0	35.0	35.0	17.5	40.1	34.1	34.6	29.4	14.3	38.1	31.6	33.4
		32"	44.3	22.3	43.0	37.5	35.8	41.9	21.1	42.3	36.7	35.5	37.4	18.8	40.9	35.0	35.0	35.0	17.5	40.1	34.1	34.6	29.4	14.3	38.1	31.6	33.4
		48"	37.6	19.2	36.5	31.9	30.5	35.2	18.0	35.8	31.1	30.2	30.7	15.7	34.4	29.4	29.7	28.3	14.4	33.6	28.5	29.3	22.6	11.3	31.6	26.0	28.1
		64"	37.6	19.2	36.5	31.9	30.5	35.2	18.0	35.8	31.1	30.2	30.7	15.7	34.4	29.4	29.7	28.3	14.4	33.6	28.5	29.3	22.6	11.3	31.6	26.0	28.1
		72"	37.6	19.2	36.5	31.9	30.5	35.2	18.0	35.8	31.1	30.2	30.7	15.7	34.4	29.4	29.7	28.3	14.4	33.6	28.5	29.3	22.6	11.3	31.6	26.0	28.1
	11"	16"	39.4	20.0	38.2	33.4	31.9	37.0	18.8	37.5	32.6	31.6	32.5	16.5	36.2	30.9	31.1	30.1	15.3	35.4	29.9	30.7	24.4	12.1	33.3	27.5	29.5
		24"	39.4	20.0	38.2	33.4	31.9	37.0	18.8	37.5	32.6	31.6	32.5	16.5	36.2	30.9	31.1	30.1	15.3	35.4	29.9	30.7	24.4	12.1	33.3	27.5	29.5
		32"	39.4	20.0	38.2	33.4	31.9	37.0	18.8	37.5	32.6	31.6	32.5	16.5	36.2	30.9	31.1	30.1	15.3	35.4	29.9	30.7	24.4	12.1	33.3	27.5	29.5
		48"	33.5	17.4	32.5	28.5	27.2	31.1	16.2	31.8	27.7	27.0	26.6	13.8	30.4	26.0	26.4	24.2	12.6	29.7	25.0	26.0	18.5	-	27.6	22.6	24.9
		64"	33.5	17.4	32.5	28.5	27.2	31.1	16.2	31.8	27.7	27.0	26.6	13.8	30.4	26.0	26.4	24.2	12.6	29.7	25.0	26.0	18.5	-	27.6	22.6	24.9
		72"	33.5	17.4	32.5	28.5	27.2	31.1	16.2	31.8	27.7	27.0	26.6	13.8	30.4	26.0	26.4	24.2	12.6	29.7	25.0	26.0	18.5	-	27.6	22.6	24.9
	20"	16"	33.8	17.5	32.8	28.8	27.5	31.4	16.3	32.2	28.0	27.3	26.9	14.0	30.8	26.3	26.7	24.5	12.7	30.0	25.3	26.3	18.9	-	27.9	22.9	25.2
		24"	33.8	17.5	32.8	28.8	27.5	31.4	16.3	32.2	28.0	27.3	26.9	14.0	30.8	26.3	26.7	24.5	12.7	30.0	25.3	26.3	18.9	-	27.9	22.9	25.2
		32"	33.8	17.5	32.8	28.8	27.5	31.4	16.3	32.2	28.0	27.3	26.9	14.0	30.8	26.3	26.7	24.5	12.7	30.0	25.3	26.3	18.9	-	27.9	22.9	25.2
		48"	28.8	15.3	28.0	24.7	23.6	26.4	14.1	27.4	23.8	23.4	22.0	11.8	26.0	22.1	22.8	19.6	10.5	25.2	21.2	22.4	13.9	-	23.1	18.8	21.3
		64"	28.8	15.3	28.0	24.7	23.6	26.4	14.1	27.4	23.8	23.4	22.0	11.8	26.0	22.1	22.8	19.6	10.5	25.2	21.2	22.4	13.9	-	23.1	18.8	21.3
		72"	28.8	15.3	28.0	24.7	23.6	26.4	14.1	27.4	23.8	23.4	22.0	11.8	26.0	22.1	22.8	19.6	10.5	25.2	21.2	22.4	13.9	-	23.1	18.8	21.3
75.7"	3"	16"	40.7	20.6	39.5	34.6	32.9	38.3	19.5	38.9	33.7	32.7	33.8	17.1	37.5	32.0	32.1	31.5	15.9	36.7	31.1	31.8	25.8	12.7	34.6	28.6	30.6
		24"	40.7	20.6	39.5	34.6	32.9	38.3	19.5	38.9	33.7	32.7	33.8	17.1	37.5	32.0	32.1	31.5	15.9	36.7	31.1	31.8	25.8	12.7	34.6	28.6	30.6
		32"	40.7	20.6	39.5	34.6	32.9	38.3	19.5	38.9	33.7	32.7	33.8	17.1	37.5	32.0	32.1	31.5	15.9	36.7	31.1	31.8	25.8	12.7	34.6	28.6	30.6
		48"	34.6	17.9	33.6	29.5	28.1	32.2	16.7	32.9	28.6	27.9	27.7	14.4	31.6	26.9	27.3	25.3	13.1	30.8	26.0	26.9	19.7	-	28.7	23.6	25.8
		64"	34.6	17.9	33.6	29.5	28.1	32.2	16.7	32.9	28.6	27.9	27.7	14.4	31.6	26.9	27.3	25.3	13.1	30.8	26.0	26.9	19.7	-	28.7	23.6	25.8
		72"	34.6	17.9	33.6	29.5	28.1	32.2	16.7	32.9	28.6	27.9	27.7	14.4	31.6	26.9	27.3	25.3	13.1	30.8	26.0	26.9	19.7	-	28.7	23.6	25.8
	12"	16"	36.2	18.6	35.2	30.8	29.4	33.8	17.4	34.5	30.0	29.2	29.3	15.1	33.1	28.3	28.6	27.0	13.8	32.3	27.3	28.2	21.3	10.7	30.3	24.9	27.1
		24"	36.2	18.6	35.2	30.8	29.4	33.8	17.4	34.5	30.0	29.2	29.3	15.1	33.1	28.3	28.6	27.0	13.8	32.3	27.3	28.2	21.3	10.7	30.3	24.9	27.1
		32"	36.2	18.6	35.2	30.8	29.4	33.8	17.4	34.5	30.0	29.2	29.3	15.1	33.1	28.3	28.6	27.0	13.8	32.3	27.3	28.2	21.3	10.7	30.3	24.9	27.1
		48"	30.9	16.2	30.0	26.4	25.2	28.5	15.0	29.3	25.5	24.9	24.0	12.7	27.9	23.8	24.4	21.6	11.4	27.1	22.9	24.0	15.9	-	25.1	20.4	22.8
		64"	30.9	16.2	30.0	26.4	25.2	28.5	15.0	29.3	25.5	24.9	24.0	12.7	27.9	23.8	24.4	21.6	11.4	27.1	22.9	24.0	15.9	-	25.1	20.4	22.8
		72"	30.9	16.2	30.0	26.4	25.2	28.5	15.0	29.3	25.5	24.9	24.0	12.7	27.9	23.8	24.4	21.6	11.4	27.1	22.9	24.0	15.9	-	25.1	20.4	22.8
	22"	16"	31.2	16.3	30.3	26.6	25.4	28.8	15.1	29.6	25.8	25.2	24.3	12.8	28.2	24.1	24.6	21.9	11.5	27.4	23.1	24.2	16.2	-	25.4	20.7	23.1
		24"	31.2	16.3	30.3	26.6	25.4	28.8	15.1	29.6	25.8	25.2	24.3	12.8	28.2	24.1	24.6	21.9	11.5	27.4	23.1	24.2	16.2	-	25.4	20.7	23.1
		32"	31.2	16.3	30.3	26.6	25.4	28.8	15.1	29.6	25.8	25.2	24.3	12.8	28.2	24.1	24.6	21.9	11.5	27.4	23.1	24.2	16.2	-	25.4	20.7	23.1
		48"	26.6	14.3	25.9	22.8	21.8	24.2	13.1	25.2	22.0	21.6	19.8	10.8	23.9	20.3	21.0	17.4	-	23.1	19.4	20.7	11.7	-	21.0	16.9	19.5
		64"	26.6	14.3	25.9	22.8	21.8	24.2	13.1	25.2	22.0	21.6	19.8	10.8	23.9	20.3	21.0	17.4	-	23.1	19.4	20.7	11.7	-	21.0	16.9	19.5
		72"	26.6	14.3	25.9	22.8	21.8	24.2	13.1	25.2	22.0	21.6	19.8	10.8	23.9	20.3	21.0	17.4	-	23.1	19.4	20.7	11.7	-	21.0	16.9	19.5

LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

SEE SHEET 14 FOR COMP MOUNT INSTALLATION
SEE SHEET 15 FOR SCISSOR MOUNT INSTALLATION
SEE SHEET 16 FOR INSTAFLASH MOUNT INSTALLATION
SEE SHEET 17 FOR INSTAFLASH 2 MOUNT INSTALLATIO
SEE SHEET 18 FOR ButyL-Foot MOUNT INSTALLATION

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (40.9" X 69")
AND 72 CELLS PANEL (40.9" X 75.7").

Sealed: 8/14/2024



a f c

AL-FAROOQ CORPORATION
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ROOF TOP PV MOUNTING SYS. WITH SkipRail CLAMP

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revisions:

no	date	by	description

date: 12-22-23

scale: -

dr. by: TARIQ

chk. by:

drawing no.
23-64F

sheet 12 of 18

COMP MOUNT, SCISSOR MOUNT, INSTAFLASH MOUNT, INSTAFLASH 2 MOUNT & ButyL-Foot MOUNT

ROOF MOUNTS DESIGN LOAD CAPACITY - PSF (LANDSCAPE MODULES)

PANEL LENGTH	PANEL OVERHANG	SPAN 'L'	FLAT ROOFS					ROOF SLOPES UP TO 7°					ROOF SLOPES 8° TO 20°					ROOF SLOPES 21° TO 27°					ROOF SLOPES 28° TO 45°				
			COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	INSTAFLASH 2 MOUNT	ButyL-Foot MOUNT
69"	3"	16"	43.7	22.0	42.4	37.1	35.3	41.3	20.8	41.7	36.2	35.1	36.8	18.5	40.4	34.5	34.5	34.4	17.2	39.6	33.6	34.1	28.8	14.1	37.5	31.1	33.0
		24"	43.7	22.0	42.4	37.1	35.3	41.3	20.8	41.7	36.2	35.1	36.8	18.5	40.4	34.5	34.5	34.4	17.2	39.6	33.6	34.1	28.8	14.1	37.5	31.1	33.0
		32"	43.7	22.0	42.4	37.1	35.3	41.3	20.8	41.7	36.2	35.1	36.8	18.5	40.4	34.5	34.5	34.4	17.2	39.6	33.6	34.1	28.8	14.1	37.5	31.1	33.0
		48"	43.7	22.0	42.4	37.1	35.3	41.3	20.8	41.7	36.2	35.1	36.8	18.5	40.4	34.5	34.5	34.4	17.2	39.6	33.6	34.1	28.8	14.1	37.5	31.1	33.0
		64"	37.1	19.0	36.0	31.5	30.1	34.7	17.8	35.3	30.7	29.8	30.2	15.5	34.0	29.0	29.3	27.8	14.2	33.2	28.1	28.9	22.2	11.1	31.1	25.6	27.8
		72"	37.1	19.0	36.0	31.5	30.1	34.7	17.8	35.3	30.7	29.8	30.2	15.5	34.0	29.0	29.3	27.8	14.2	33.2	28.1	28.9	22.2	11.1	31.1	25.6	27.8
	6-1/2"	16"	40.5	20.5	39.3	34.4	32.7	38.1	19.3	38.6	33.5	32.5	33.6	17.0	37.2	31.8	31.9	31.2	15.8	36.4	30.9	31.6	25.5	12.6	34.4	28.4	30.4
		24"	40.5	20.5	39.3	34.4	32.7	38.1	19.3	38.6	33.5	32.5	33.6	17.0	37.2	31.8	31.9	31.2	15.8	36.4	30.9	31.6	25.5	12.6	34.4	28.4	30.4
		32"	40.5	20.5	39.3	34.4	32.7	38.1	19.3	38.6	33.5	32.5	33.6	17.0	37.2	31.8	31.9	31.2	15.8	36.4	30.9	31.6	25.5	12.6	34.4	28.4	30.4
		48"	40.5	20.5	39.3	34.4	32.7	38.1	19.3	38.6	33.5	32.5	33.6	17.0	37.2	31.8	31.9	31.2	15.8	36.4	30.9	31.6	25.5	12.6	34.4	28.4	30.4
		64"	34.4	17.8	33.4	29.3	27.9	32.0	16.6	32.7	28.4	27.7	27.5	14.3	31.3	26.8	27.1	25.1	13.0	30.6	25.8	26.8	19.5	-	28.5	23.4	25.6
		72"	34.4	17.8	33.4	29.3	27.9	32.0	16.6	32.7	28.4	27.7	27.5	14.3	31.3	26.8	27.1	25.1	13.0	30.6	25.8	26.8	19.5	-	28.5	23.4	25.6
	12"	16"	34.3	17.7	33.3	29.2	27.9	31.9	16.5	32.6	28.4	27.6	27.4	14.2	31.2	26.7	27.1	25.0	13.0	30.4	25.7	26.7	19.4	-	28.4	23.3	25.5
		24"	34.3	17.7	33.3	29.2	27.9	31.9	16.5	32.6	28.4	27.6	27.4	14.2	31.2	26.7	27.1	25.0	13.0	30.4	25.7	26.7	19.4	-	28.4	23.3	25.5
		32"	34.3	17.7	33.3	29.2	27.9	31.9	16.5	32.6	28.4	27.6	27.4	14.2	31.2	26.7	27.1	25.0	13.0	30.4	25.7	26.7	19.4	-	28.4	23.3	25.5
		48"	34.3	17.7	33.3	29.2	27.9	31.9	16.5	32.6	28.4	27.6	27.4	14.2	31.2	26.7	27.1	25.0	13.0	30.4	25.7	26.7	19.4	-	28.4	23.3	25.5
		64"	29.2	15.4	28.4	25.0	23.9	26.8	14.2	27.7	24.2	23.7	22.3	11.9	26.4	22.5	23.1	20.0	10.7	25.6	21.5	22.7	14.3	-	23.5	19.1	21.6
		72"	29.2	15.4	28.4	25.0	23.9	26.8	14.2	27.7	24.2	23.7	22.3	11.9	26.4	22.5	23.1	20.0	10.7	25.6	21.5	22.7	14.3	-	23.5	19.1	21.6
75.7"	3"	16"	40.2	20.4	39.0	34.1	32.5	37.8	19.2	38.3	33.3	32.3	33.3	16.9	37.0	31.6	31.7	30.9	15.6	36.2	30.6	31.3	25.3	12.5	34.1	28.2	30.2
		24"	40.2	20.4	39.0	34.1	32.5	37.8	19.2	38.3	33.3	32.3	33.3	16.9	37.0	31.6	31.7	30.9	15.6	36.2	30.6	31.3	25.3	12.5	34.1	28.2	30.2
		32"	40.2	20.4	39.0	34.1	32.5	37.8	19.2	38.3	33.3	32.3	33.3	16.9	37.0	31.6	31.7	30.9	15.6	36.2	30.6	31.3	25.3	12.5	34.1	28.2	30.2
		48"	40.2	20.4	39.0	34.1	32.5	37.8	19.2	38.3	33.3	32.3	33.3	16.9	37.0	31.6	31.7	30.9	15.6	36.2	30.6	31.3	25.3	12.5	34.1	28.2	30.2
		64"	40.2	20.4	39.0	34.1	32.5	37.8	19.2	38.3	33.3	32.3	33.3	16.9	37.0	31.6	31.7	30.9	15.6	36.2	30.6	31.3	25.3	12.5	34.1	28.2	30.2
		72"	34.2	17.7	33.2	29.1	27.8	31.8	16.5	32.5	28.3	27.5	27.3	14.2	31.1	26.6	27.0	24.9	12.9	30.3	25.6	26.6	19.2	-	28.3	23.2	25.4
	6-1/2"	16"	37.2	19.1	36.2	31.7	30.2	34.8	17.9	35.5	30.8	30.0	30.3	15.6	34.1	29.1	29.4	28.0	14.3	33.3	28.2	29.0	22.3	11.1	31.2	25.7	27.9
		24"	37.2	19.1	36.2	31.7	30.2	34.8	17.9	35.5	30.8	30.0	30.3	15.6	34.1	29.1	29.4	28.0	14.3	33.3	28.2	29.0	22.3	11.1	31.2	25.7	27.9
		32"	37.2	19.1	36.2	31.7	30.2	34.8	17.9	35.5	30.8	30.0	30.3	15.6	34.1	29.1	29.4	28.0	14.3	33.3	28.2	29.0	22.3	11.1	31.2	25.7	27.9
		48"	37.2	19.1	36.2	31.7	30.2	34.8	17.9	35.5	30.8	30.0	30.3	15.6	34.1	29.1	29.4	28.0	14.3	33.3	28.2	29.0	22.3	11.1	31.2	25.7	27.9
		64"	37.2	19.1	36.2	31.7	30.2	34.8	17.9	35.5	30.8	30.0	30.3	15.6	34.1	29.1	29.4	28.0	14.3	33.3	28.2	29.0	22.3	11.1	31.2	25.7	27.9
		72"	31.7	16.6	30.8	27.1	25.8	29.3	15.4	30.1	26.2	25.6	24.8	13.0	28.7	24.5	25.0	22.4	11.8	27.9	23.6	24.7	16.8	-	25.9	21.1	23.5
	12"	16"	31.6	16.5	30.7	27.0	25.8	29.2	15.3	30.0	26.1	25.5	24.7	13.0	28.6	24.4	25.0	22.3	11.7	27.9	23.5	24.6	16.7	-	25.8	21.1	23.4
		24"	31.6	16.5	30.7	27.0	25.8	29.2	15.3	30.0	26.1	25.5	24.7	13.0	28.6	24.4	25.0	22.3	11.7	27.9	23.5	24.6	16.7	-	25.8	21.1	23.4
		32"	31.6	16.5	30.7	27.0	25.8	29.2	15.3	30.0	26.1	25.5	24.7	13.0	28.6	24.4	25.0	22.3	11.7	27.9	23.5	24.6	16.7	-	25.8	21.1	23.4
		48"	31.6	16.5	30.7	27.0	25.8	29.2	15.3	30.0	26.1	25.5	24.7	13.0	28.6	24.4	25.0	22.3	11.7	27.9	23.5	24.6	16.7	-	25.8	21.1	23.4
		64"	31.6	16.5	30.7	27.0	25.8	29.2	15.3	30.0	26.1	25.5	24.7	13.0	28.6	24.4	25.0	22.3	11.7	27.9	23.5	24.6	16.7	-	25.8	21.1	23.4
		72"	27.0	14.4	26.3	23.1	22.1	24.6	13.2	25.6	22.3	21.9	20.1	10.9	24.2	20.6	21.3	17.7	-	23.4	19.7	21.0	12.1	-	21.3	17.2	19.8

LIMIT MAXIMUM POSITIVE(+) LOADS TO 36.7 PSF

SEE SHEET 14 FOR COMP MOUNT INSTALLATION
SEE SHEET 15 FOR SCISSOR MOUNT INSTALLATION
SEE SHEET 16 FOR INSTAFLASH MOUNT INSTALLATION
SEE SHEET 17 FOR INSTAFLASH 2 MOUNT INSTALLATIO
SEE SHEET 18 FOR ButyL-Foot MOUNT INSTALLATION

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (40.9" X 69")
AND 72 CELLS PANEL (40.9" X 75.7").

Sealed: 8/14/2024



af c

AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173
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ROOF TOP PV MOUNTING SYS. WITH SkipRail CLAMP

Pegasus Solar Inc.
506 West Ohio Avenue
Richmond CA. 94804
Phone: (510) 210-3797
www.pegasussolar.com

Revisions:

no	date	by	description

date: 12-22-23

scale: -

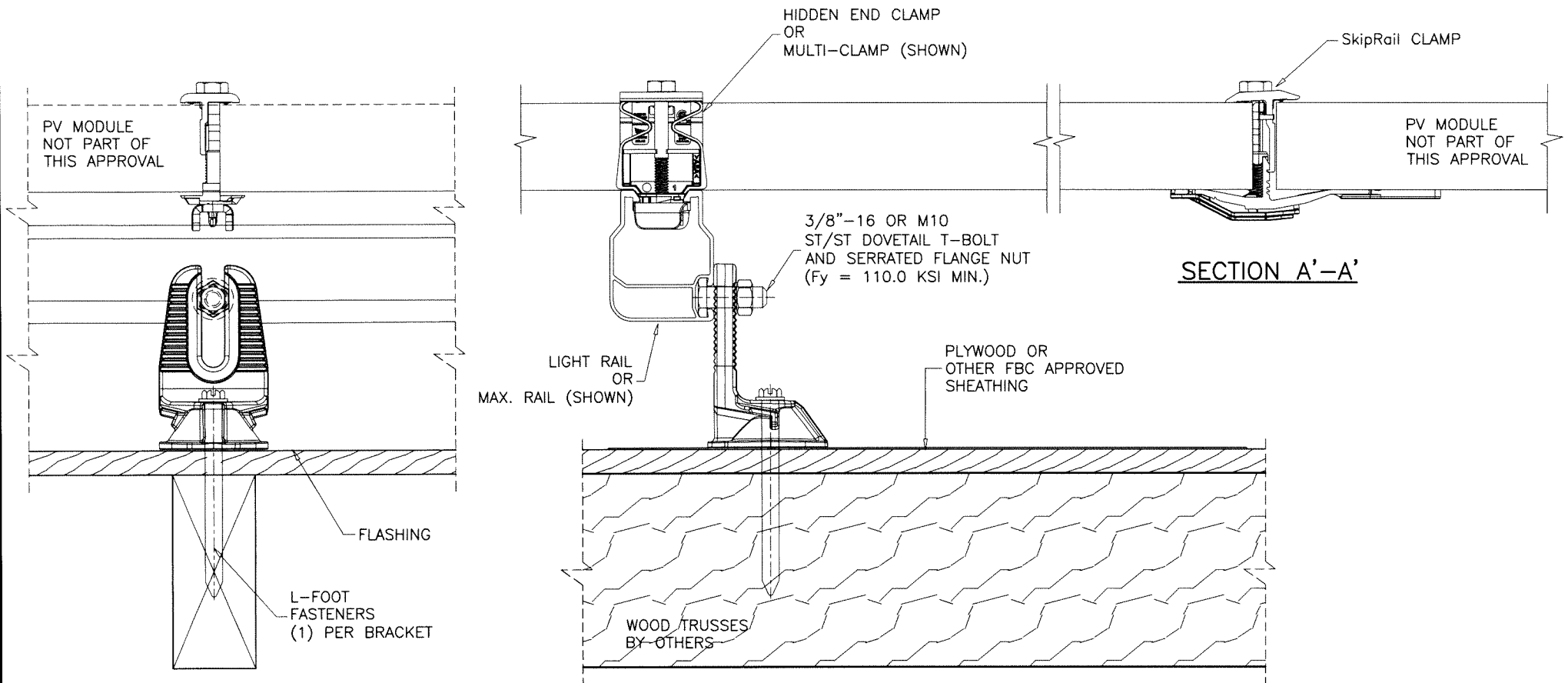
dr. by: TARIQ

chk. by:

drawing no.
23-64F

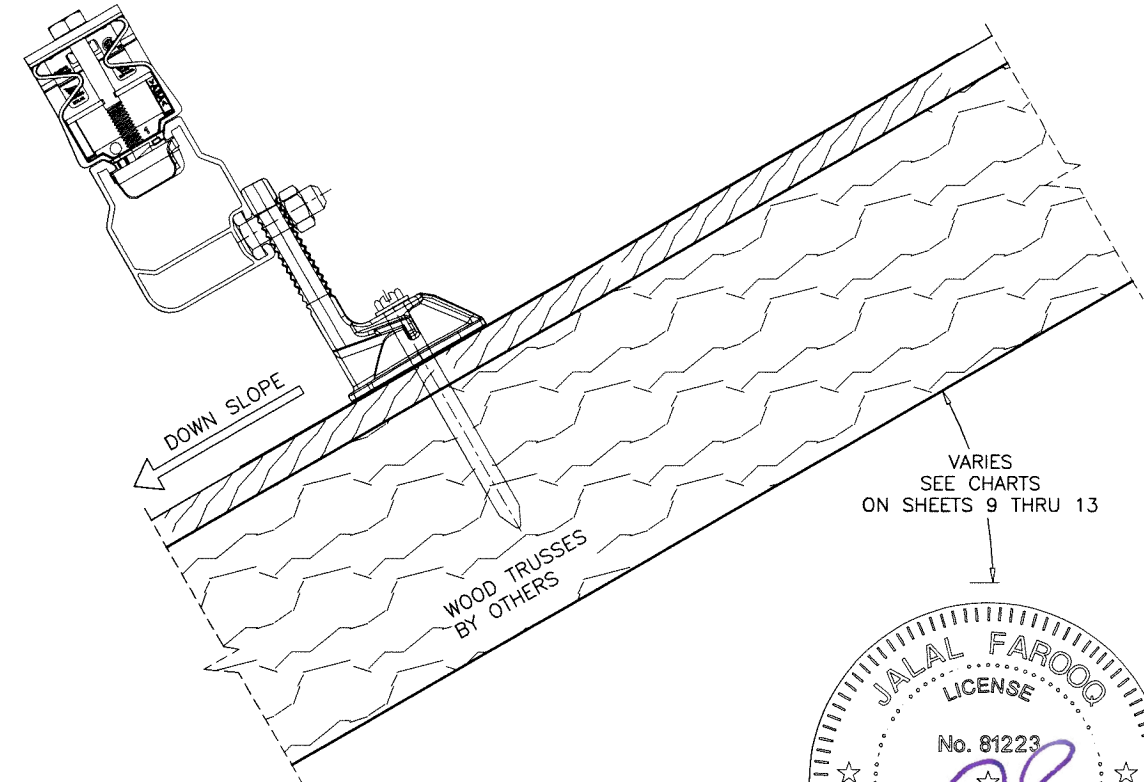
sheet 13 of 18

COMP MOUNT GEN2 L-FOOT W/ SkipRail CLAMP



SECTION A-A

SECTION A'-A'



L-FOOT FASTENERS:

5/16" X 4-1/2" ST/ST LAG SCREWS (Fy = 65 KSI MIN.)
2-1/2" MIN. THREAD PENETRATION INTO WOOD TRUSSES
CENTERED AT WOOD TRUSSES (SG = 0.50 MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 806.7 Lbs MAX.
SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 165.9 Lbs MAX.

Sealed: 8/14/2024

FL #46082



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revisions:	
no	date by description

date: 12-22-23

scale: 3/8" = 1"

dr. by: TARIQ

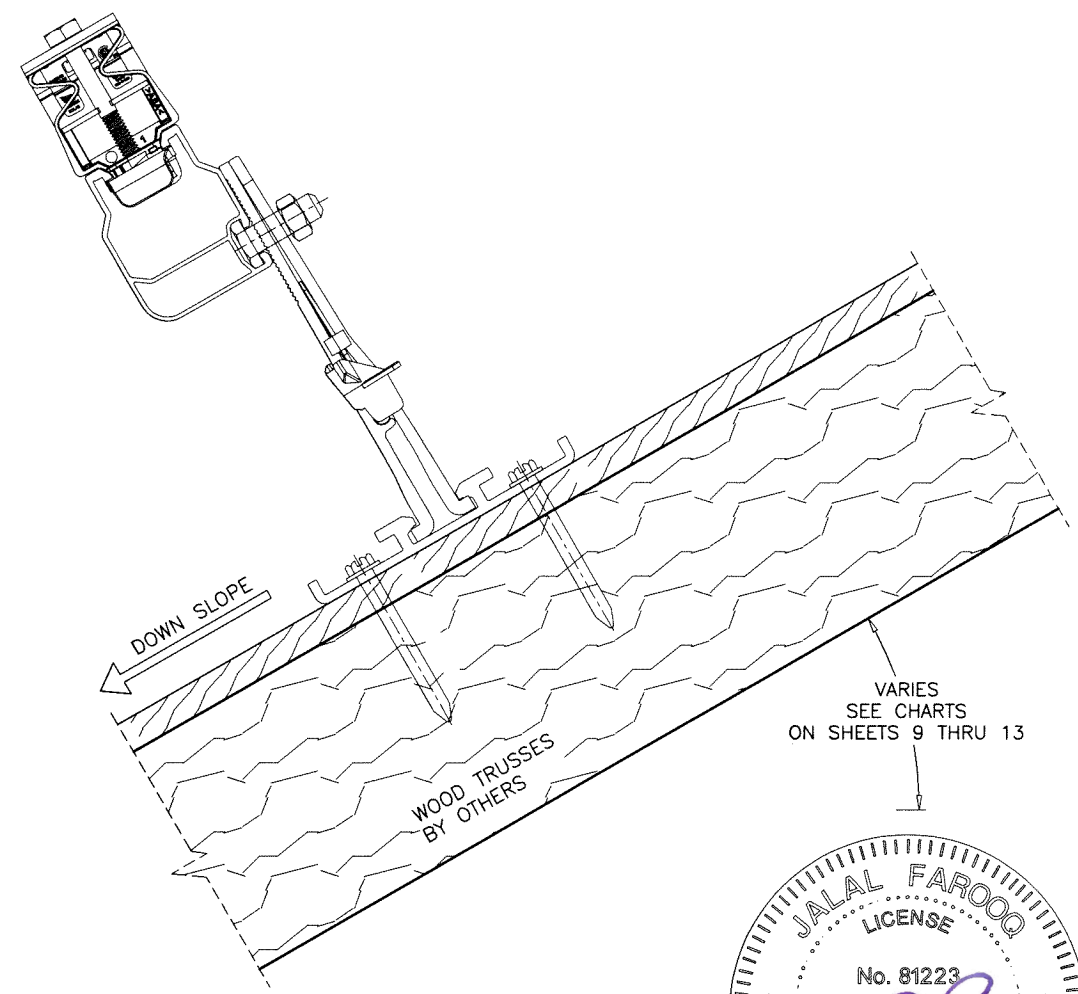
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23-64F

sheet 14 of 18

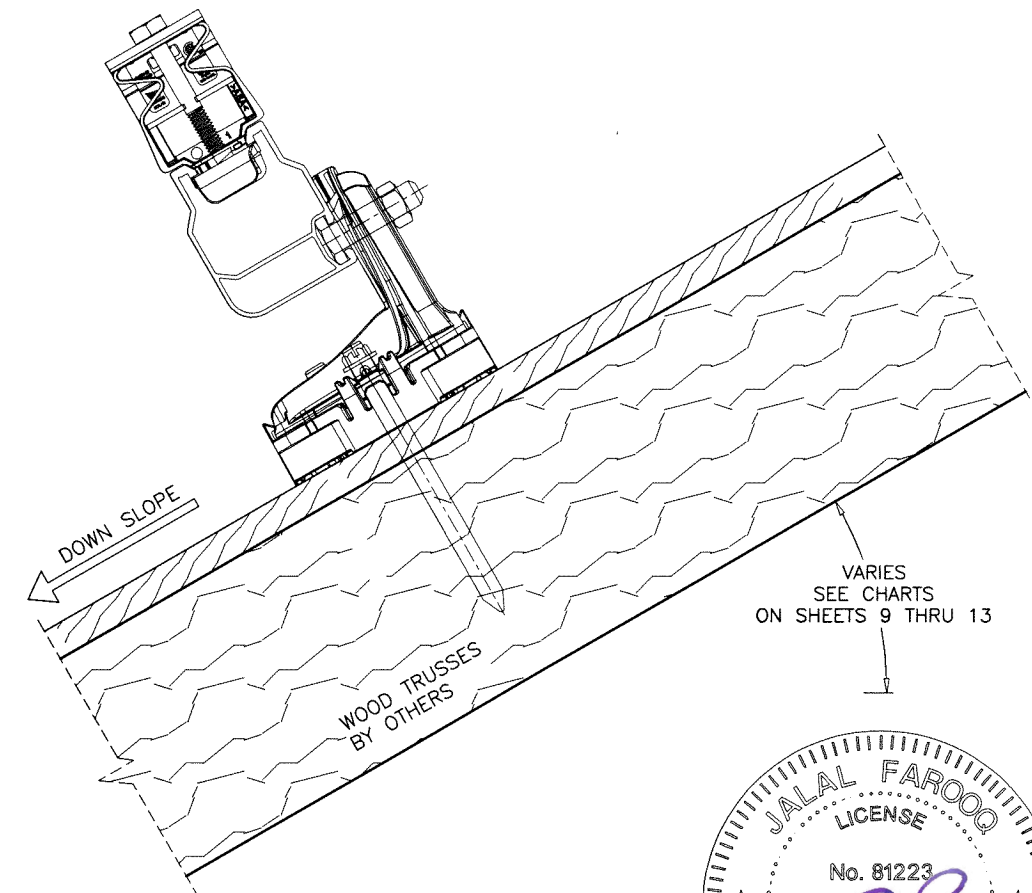
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FBPE #3538



A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. In the center, the license number "No. 81223" is printed above a large, stylized purple signature.

[illegible]

afC



WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 780.5 Lbs MAX.
SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 587.7 Lbs MAX.

FL #46082



Pegasus Solar Inc.
506 West Ohio Avenue
Richmond CA. 94804
Phone: (510) 210-3797 www.

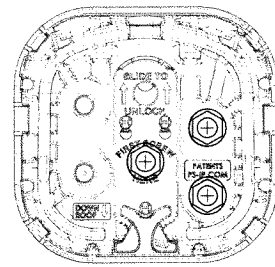
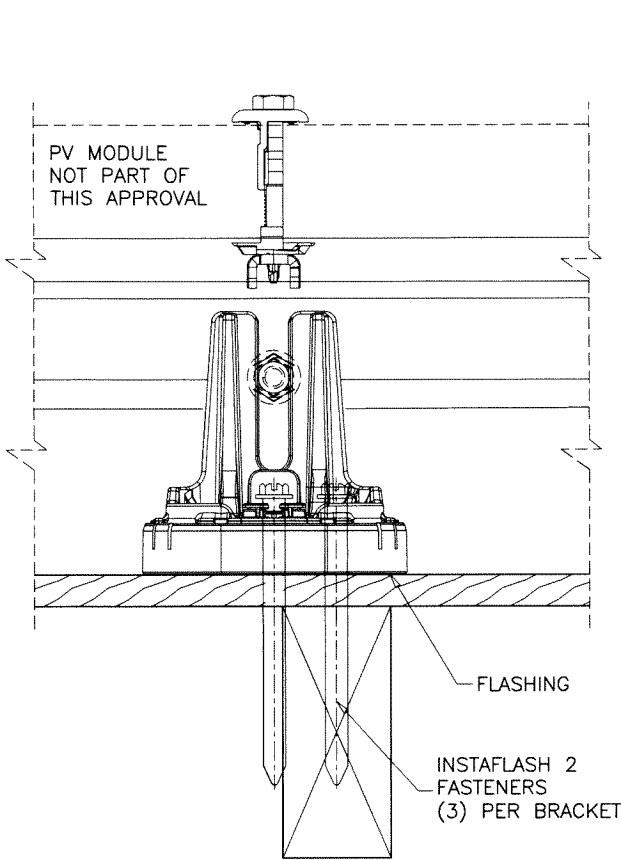
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
SOLAR-RACK\23
FBPE #3538

date: 12-22-23	revisions:	
scale: 3/8" = 1"	no	by description
dr. by: TARIQ		
chk. by:		

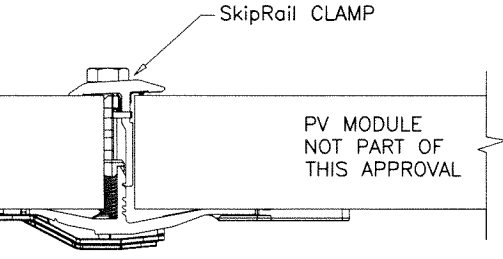
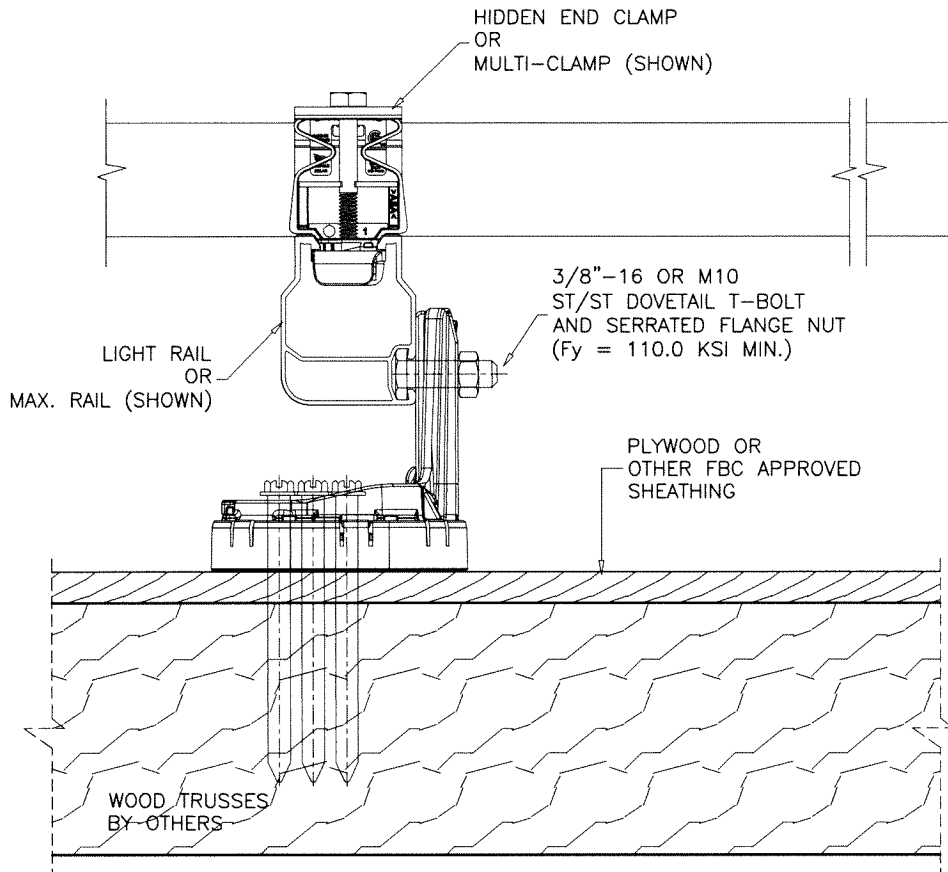
drawing no.
23-64F

sheet 16 of 18

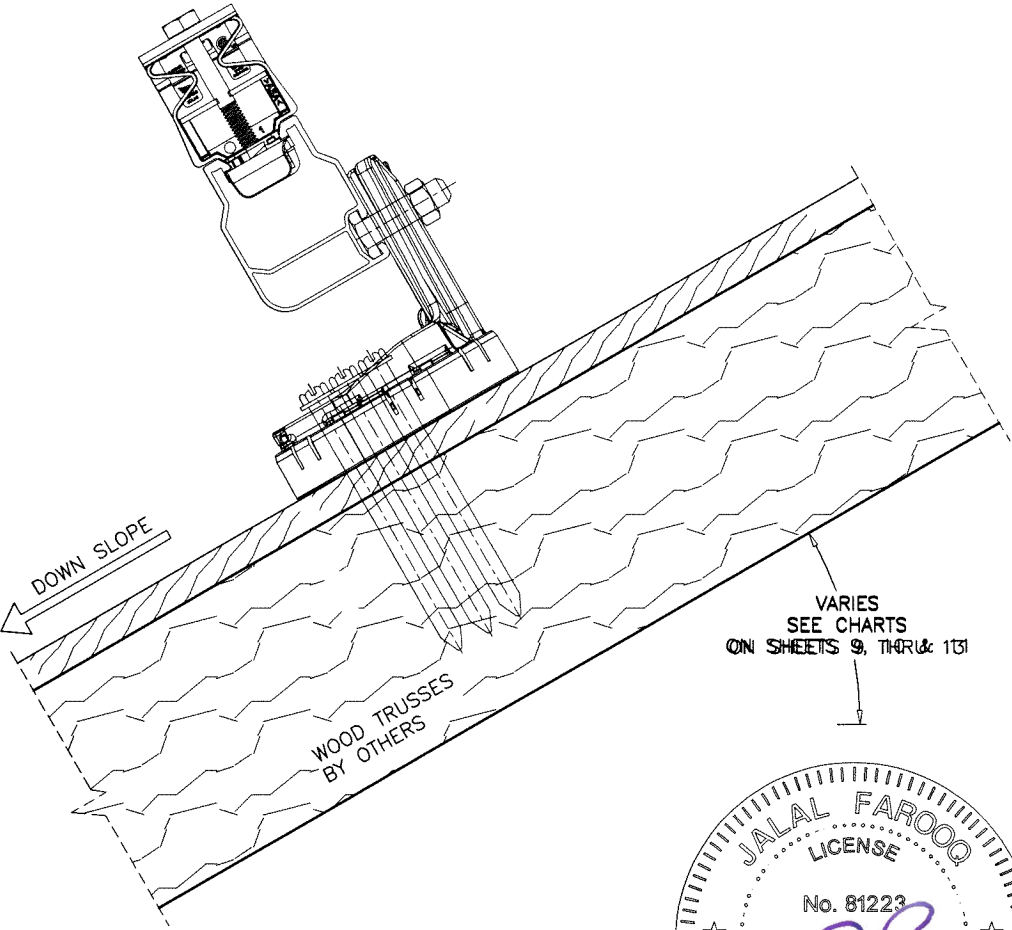
INSTAFLASH MOUNT 2 W/ SkipRail CLAMP



SECTION C-C



SECTION C'-C'



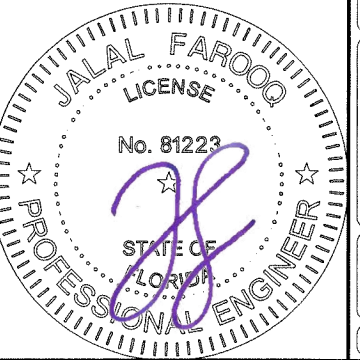
INSTAFLASH 2 MOUNT FASTENERS:

- #14 X 85mm LAG SCREWS (Fy = 65 KSI MIN.)
- 1-13/16" MIN. THREAD PENETRATION INTO WOOD TRUSSES
- (2) CENTERED AT WOOD TRUSSES (SG = 0.50 MIN.)
- (1) IN ADJACENT HOLE SEE DETAIL ABOVE

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 671.5 Lbs MAX.
SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 400.1 Lbs MAX.

Sealed: 8/14/2024

FL #46082



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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FBPE #3538

ROOF TOP PV MOUNTING SYS. WITH SkipRail CLAMP

Pegasus Solar Inc.
506 West Ohio Avenue
Richmond CA. 94804
Phone: (510) 210-3797
www.pegasussolar.com

revisions:	
no	date by description

date: 12-22-23

scale: 3/8" = 1"

dr. by: TARIQ

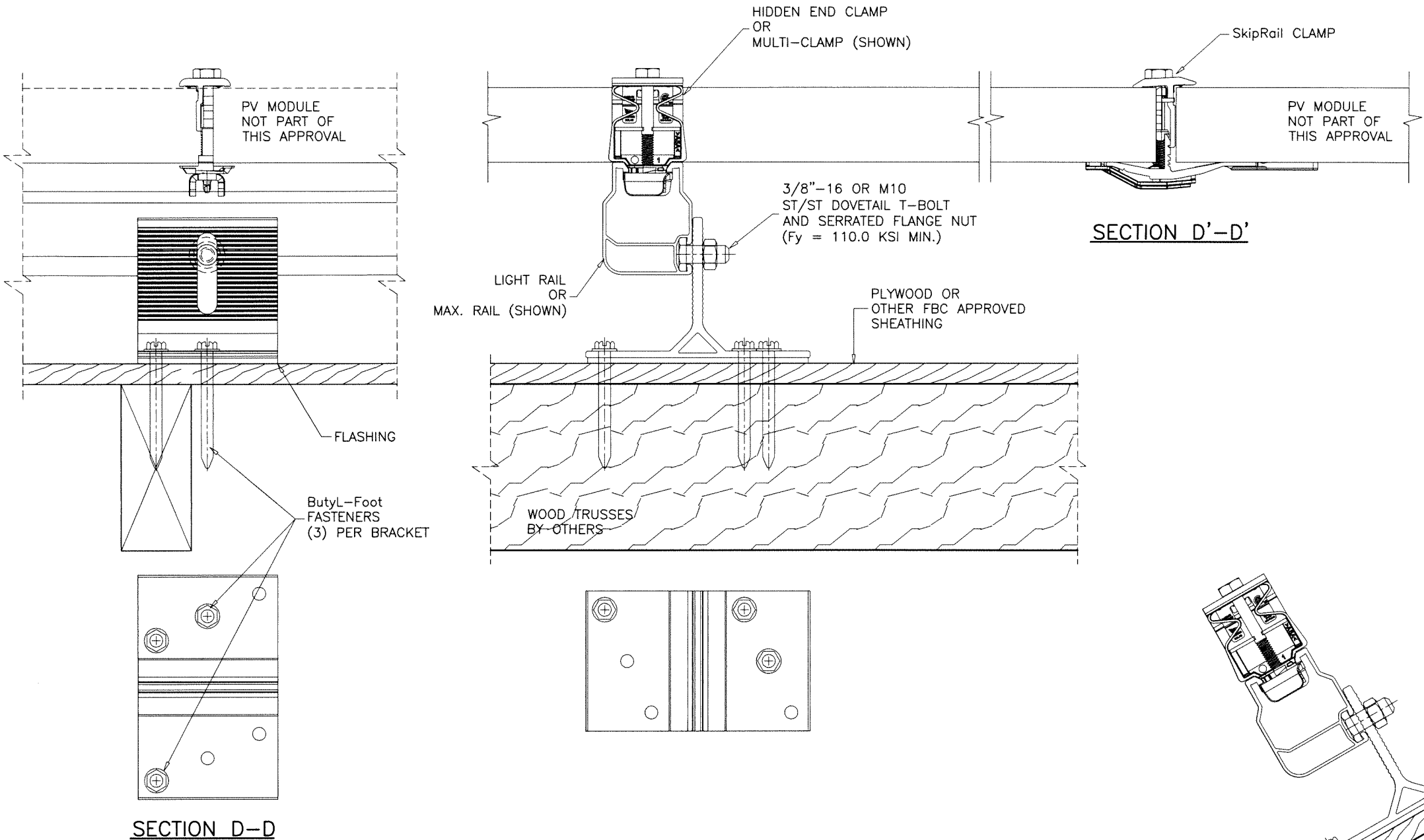
chk. by:

drawing no.

23-64F

sheet 17 of 18

ButyL-Foot MOUNT W/ SkipRail CLAMP



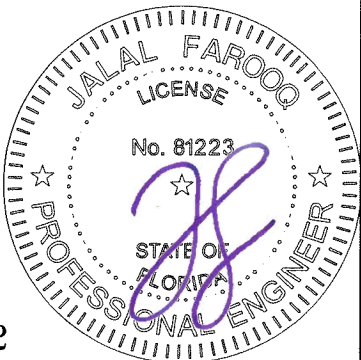
ButyL-Foot MOUNT FASTENERS:

- #14 X 75mm WOOD SCREWS (Fy = 65 KSI MIN.)
- 1-3/4" MIN. THREAD PENETRATION INTO WOOD TRUSSES
- (2) CENTERED AT WOOD TRUSSES (SG = 0.50 MIN.)
- (1) IN ADJACENT HOLE SEE DETAIL ABOVE

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 635.8 Lbs MAX.
SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 1558.6 Lbs MAX.

Sealed: 8/14/2024

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dr. by: TARIQ

chk. by:

drawing no.

23-64F

sheet 18 of 18