

Attn: Sean McDonald, CEO, IronRidge Inc.**Date:** April 2nd, 2026**Re:** Report #7.22 ROKR: Engineering Certification and Span Tables for the IronRidge ROKR Smart Slide Flush Mount System, for Gable and Hip roofs, Rev A.

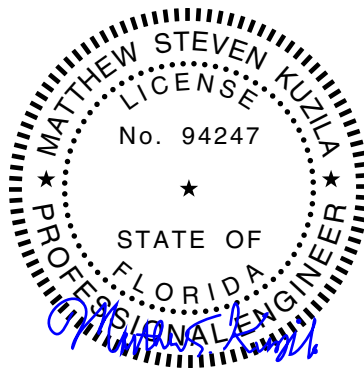
This letter certifies the loading criteria and design basis used for the structural analysis of the IronRidge ROKR Flush Mount System as shown in Report #7.22 ROKR "Engineering Certification and Span Tables for the IronRidge ROKR Flush Mount System, for Gable and Hip roofs, Rev A". All information, data, and analysis therein are based on, and comply with, the following building codes and typical specifications. The Span Tables provided in the referenced report may be used when all conditions of the design criteria provided therein are met. Requirements for loading conditions that are not certified in this letter can be determined by using the online Design Assistant at IronRidge.com.

Building Codes:

1. ASCE/SEI 7-22, Minimum Design Loads for Buildings and Other Structures, by American Society of Civil Engineers
2. 2023 Florida Building Code, Eighth Edition
3. AC428, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES
4. Aluminum Design Manual 2020, by The Aluminum Association, Inc.
5. SEAOC (Structural Engineers Association of California) report PV2-2017 Wind Design for Solar Arrays

Please note our evaluation only applies to IronRidge products and excludes the structural adequacy of the PV modules or underlying roof supporting members. It shall be the responsibility of the installer or system designer to verify the structural capacity and adequacy of the referenced system components with respect to the applied or resultant loads of the chosen array configuration.

Sincerely,



Matthew S Kuzila, P.E.

Expires 02.28.2027

Digitally signed
by Matthew S
Kuzila
Date: 2026.04.02
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This item has been electronically signed and sealed by Matthew S Kuzila on the date adjacent to the seal using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Re: Report #7.22 ROKR: Engineering Certification and Span Tables for the IronRidge ROKR Smart Slide Flush Mount System, for Gable and Hip Roofs, Rev A.

This report addresses the structural performance and code compliance of IronRidge's ROKR Flush Mount System. The contents of the report shall be reviewed in its entirety before application to any project design. The ROKR Flush Mount System is a proprietary rooftop mounting system used to support photovoltaic (PV) modules installed in portrait or landscape orientation and set parallel to the underlying roof surface. PV modules are supported by extruded aluminum ROKR Mount assemblies which are connected to a ROKR roof attachment, ROKR Smart Slide, which is attached directly to the roof structure. Assembly details of a typical ROKR System installation and its core components are shown in Drawings IR 1.0-1.1.

The IronRidge ROKR Flush Mount System is designed and certified to the structural requirements of the reference standards listed below, for the load conditions and configurations tabulated in the attached span tables.

- Minimum Design Loads for Buildings and Other Structures, ASCE/SEI 7-22
- SEAOC (Structural Engineers Association of California) report PV2-2017 Wind Design for Solar Arrays
- AC428, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES
- Aluminum Design Manual (ADM) 2020, by the Aluminum Association, Inc.

The span tables provided in this report are certified based on the structural performance of IronRidge ROKR System in conjunction with ROKR Smart Slide only with no consideration of the structural adequacy of the chosen PV modules or the underlying roof supporting members. It is the responsibility of the installer or system designer to verify the structural capacity and adequacy of the aforementioned system components in regards to the applied or resultant loads of any chosen array configuration. This report certifies the IronRidge products referenced within this document and provides no determination of the project specific conditions including site loads, building profile, & roof zones, which remain the responsibility of the installer or system designer.

The span tables included in this report provide the maximum allowable spans of ROKR Flush Mount System for the respective loads and configurations listed, covering wind exposure categories B, C, & D, roof zones provided in ASCE 7 for enclosed and partially enclosed gable & hip roof profiles with roof slopes of 0° to 60°.

The tabulated spans are applicable when the following conditions are met:

- A. *Span* is the distance between two adjacent attachment points and is to be measured with respect to the center of the attachment fastener.
- B. The underlying roof slope, measured between the roof surface and horizontal plane, is 0° to 60°.
- C. The *mean roof height*, defined as the average of the roof eave height and the roof ridge height measured from grade for roofs with pitches above 10 degrees and defined as the eave height for roofs with pitches less than or equal to 10 degrees, does not exceed 30 feet.
- D. A clearance from the underside of the array to the roof surface of 2" minimum shall be provided and the height of the array, the distance from the module top surface to the roof surface (defined as h_2), shall not exceed 6".

- E. Module length and area shall not exceed the maximum values listed on the respective span tables. The maximum module length within the scope of this report is 92.5 inches. The maximum module length specified within ASCE 7 is 80.4 inches. Wind pressure loads used to generate the span tables for modules with lengths above this value are based on the wind tunnel study “Wind Loads on photovoltaic arrays mounted on sloped roofs of low-rise building, parallel to the roof surface” referenced in ASCE 7 Section C29.4.4.
- F. All Flush Mount components shall be installed in a professional workmanlike manner per IronRidge’s *ROKR Installation Guide* and the requirements specified for the underlying roof supporting members in the certification letter of the selected roof attachment, ROKR Smart Slide, are confirmed to be met, in addition to other applicable standards for the general roof construction. ROKR Smart Slide can be rafter installed with 2 or 3 screws. Verify correct rafter attached ROKR Smart Slide screw count span table is used via box at top left of relevant table.

The parameters and adjustments allowed in the span tables are defined as the following:

- 1. The Flush Mount System is designed as a Risk Category II structure as defined by ASCE 7 Table 1.5-1.
- 2. Wind speed shall conform to ASCE 7-22 Fig. 26.5-1B (for Risk Category II) and applicable state & local county/city amendments to the IBC. No special wind topographic features are included and both topographic coefficient (K_{zt}) and wind ground elevation factor (K_e) are taken as 1.0.
- 3. Snow load used in the span tables is the *ground snow* and shall conform to ASCE 7-22 Fig. 7.2-1B (for Risk Category II) and applicable state & local county/city amendments to the IBC. If the local jurisdiction specified snow load is in the format of a *flat roof snow*, it shall first be converted to an equivalent *ground snow* following the local building code/ amendments before the application of the attached span tables.
- 4. No special snow conditions are considered including unbalanced, drifting, sliding, retention, or ponding snow. No rain-on-snow surcharge load is considered. The span tables do not apply to buildings which are intentionally kept below freezing, kept just above freezing, or unheated without first converting the snow load based on the difference in Thermal Factor and snow sliding. The Thermal Factor, C_t , is assumed to be 1.101 and the Slope Factor, C_s , is based on ASCE 7-22 Figure 7.4-1 for a warm roof with unobstructed slippery surfaces. The roof exposure factor is assumed to be 1.0 for Wind Exposure B and C and 0.9 for Wind Exposure D.
- 5. The span tables reflect the ASCE 7 prescribed earthquake loads with the maximum magnitudes being:
 - a) For ground snow no greater than 42psf: $S_s \leq 2.0g$ for Site Class A, B, C, & D.
 - b) For ground snow greater than 42psf: $S_s \leq 1.0g$ for Site Class A, B, C, & D.
- 6. Roof zones are defined by ASCE 7-22 Figure 30.3-2A to Figure 30.3-2G. Roof zone’s size and location are depicted in Figures 1 thru 4.
- 7. The maximum module cantilever length, measured from the module end to the nearest attachment point, shall be 1/3 of the allowable span provided for the respective load & configuration condition from the span tables. For the ROKR mounting system, a cantilever is defined as the distance from the end of a module free edge to a ROKR Mount roof attachment. A module edge is not free if there is a ROKR Coupling connection to an adjacent module on that edge.

Components and Cladding Roof Zones Figures:

Per ASCE 7-22:

$a = 10\%$ of least horizontal dimension of $0.4h$, whichever is smaller, but not less than either 4% of least horizontal dimension or $3 \text{ ft } (0.9\text{m})$. If an overhang exists, the edge distance shall be measured from the outside edge of the overhang. The horizontal dimensions used to compute the edge distance shall not include any overhang distances.

B = Horizontal dimension of building measure normal to wind direction in ft (m)

h = Mean roof height, in ft (m), except that eave height shall be used for $\Theta \leq 10^\circ$

Θ = Angle of plane of roof from horizontal, in degrees.

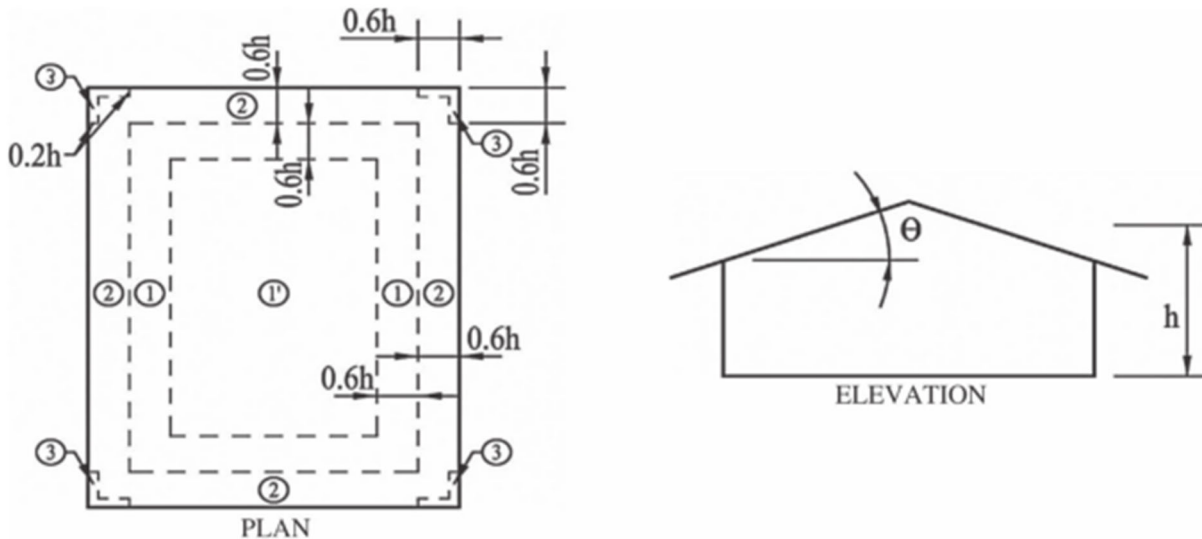


Figure 1: ASCE 7 Roof Zones for Gable Roofs $\Theta \leq 7^\circ$

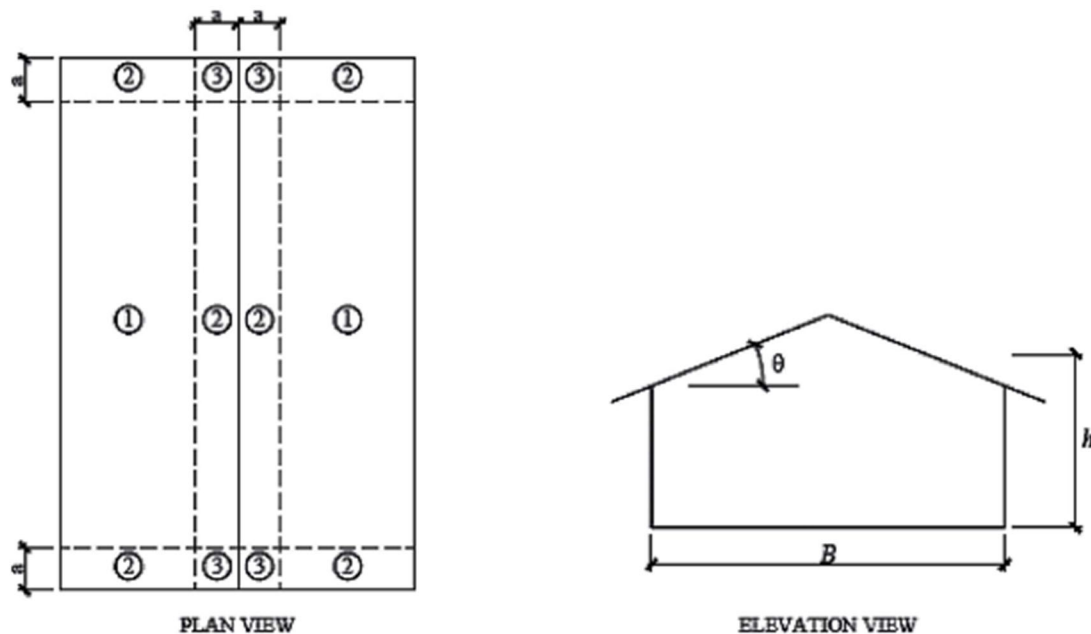


Figure 2: ASCE 7 Roof Zones for Gable Roofs $8^\circ \leq \Theta \leq 27^\circ$

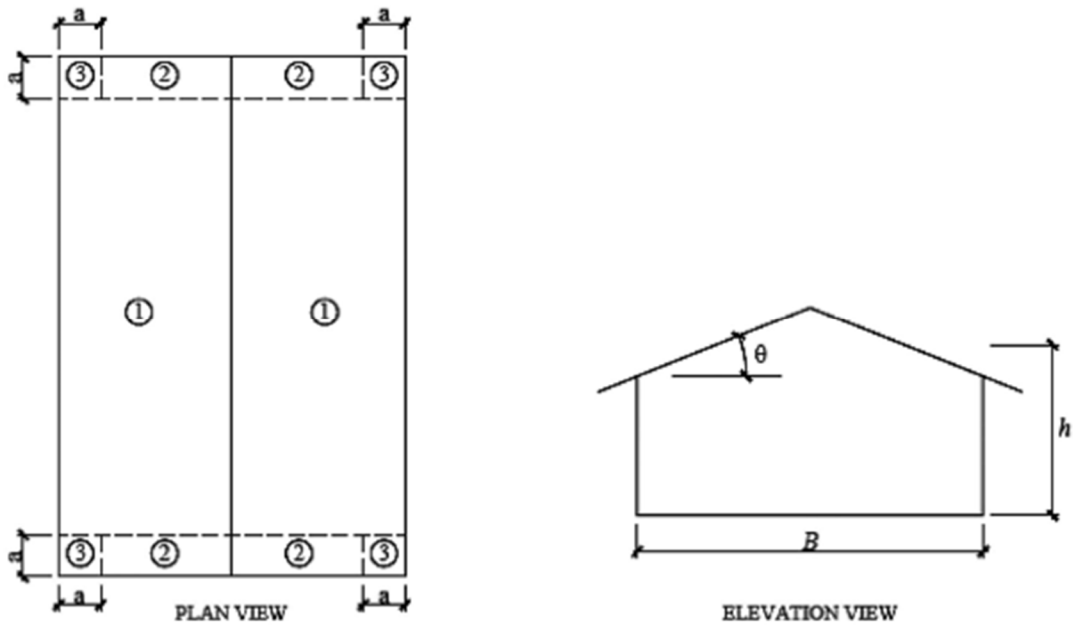


Figure 2: ASCE 7 Roof Zones for Gable Roofs $28^{\circ} \leq \Theta \leq 60^{\circ}$

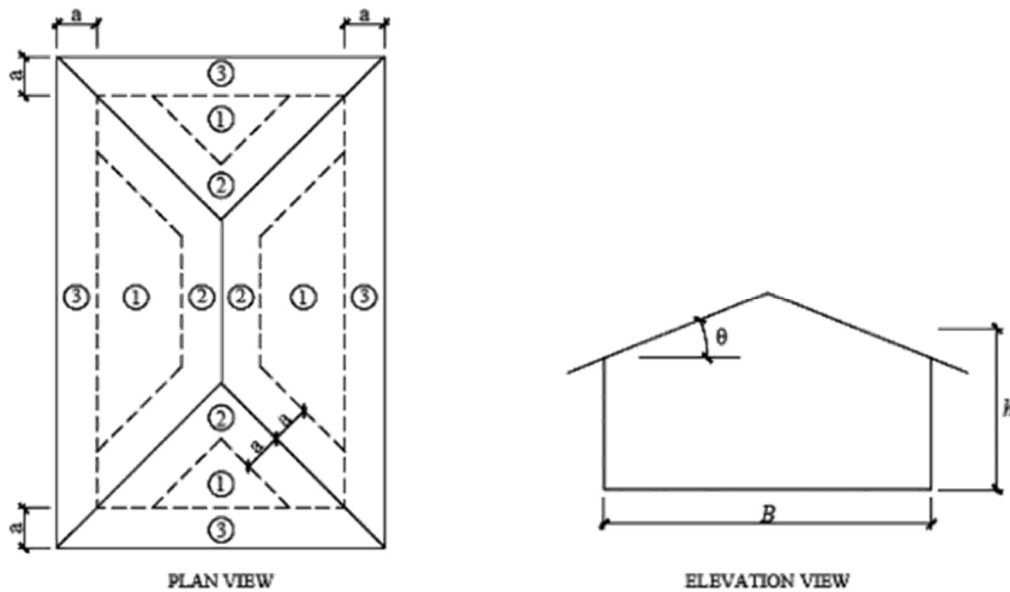


Figure 3: ASCE 7 Roof Zones for Hip Roofs $7^{\circ} < \Theta \leq 60^{\circ}$

Spans for Exposed and Edge Modules

Span values for Exposed and Edge module conditions, as defined below, are included in the attached span tables and shall be used when each condition exists.

- A module is defined as Exposed (per Section 29.4.4 of ASCE 7) if the distance from any of its free edges (an edge with no connectivity to other modules) to its facing roof edge (such as eave, ridge, rake, or hip) is greater than $0.5h$ (h is ASCE defined building height) AND if the distance from the same free edge to any other adjacent array or panel is greater than 4 feet.
- A module is defined as an Edge Module when its distance from any side of the module to its facing perimeter roof edge (such as eave, ridge, rake, or hip) is less than 2 times the height of the array ($2h_2$) where h_2 is measured from the roof surface to the top surface of the module.

The maximum allowable span for Exposed or Edge modules shall be the lesser of the following two:

1. The span value for the Exposed or Edge module condition.
2. The span value determined by site wind speed and ground snow load.

The allowable spans and cantilever shall only be applied to the portion of rail directly under Exposed or Edge Modules.

Prepared By:

Matthew S Kuzila, PE & Nancy E Schubert, PE

ROKR Smart Slide Rafter, 3 screw		Gable or Hip Roof Flush Mount System Span Table (inches) - Landscape Installation																																																					
		Max Module Width: 45", Max Module SF: 28.9 SF																																																					
		Exposure C																																																					
Wind Speed (mph)	Roof Slope (deg.)	Ground Snow: 0-80 psf			90 psf			100 psf			110 psf			120 psf			130 psf			140 psf			150 psf			160 psf			170 psf			180 psf			190 psf			200 psf			210 psf			220 psf			Exposed Module			Edge Module					
		Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3									
90 mph	0-7	72	72	72	72	72	72	70	70	70	63	63	63	58	58	58	54	54	54	50	50	50	47	47	47	44	44	44	42	42	42	39	39	39	37	37	37	35	35	35	34	34	34	32	32	32	72	72	72	72	59	40			
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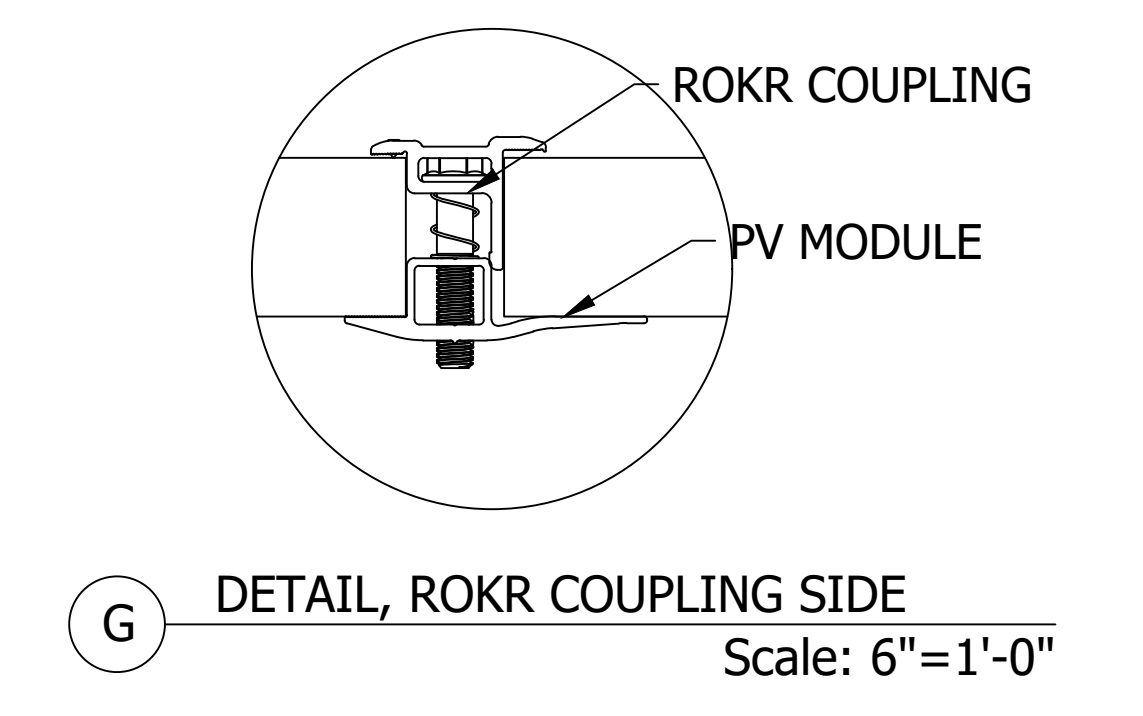
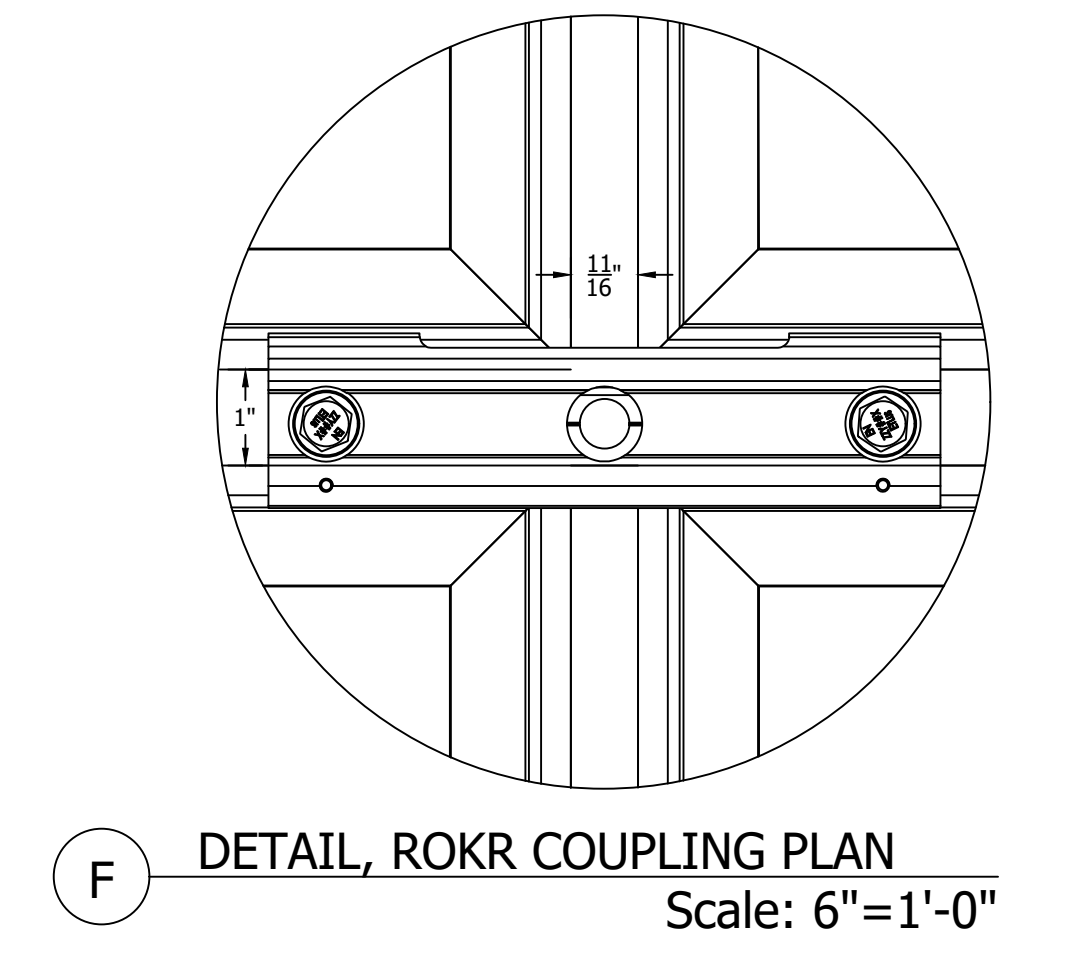
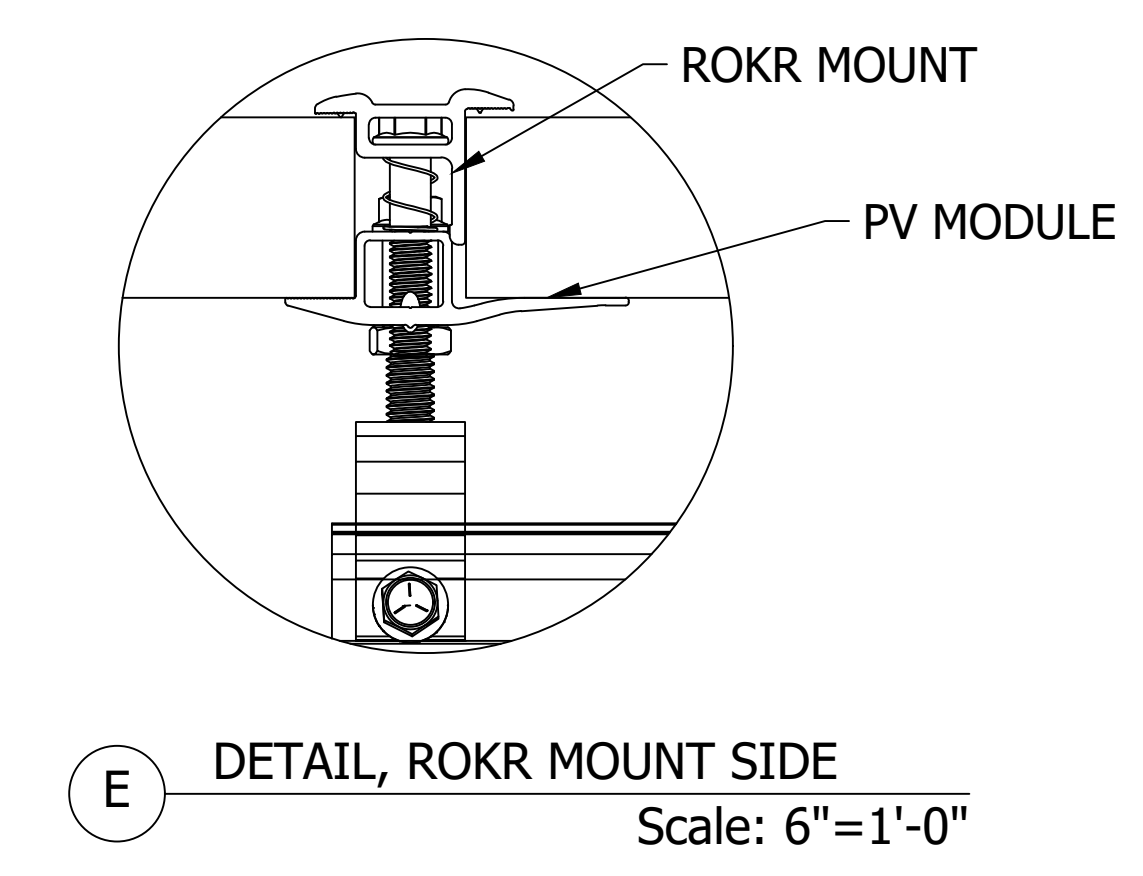
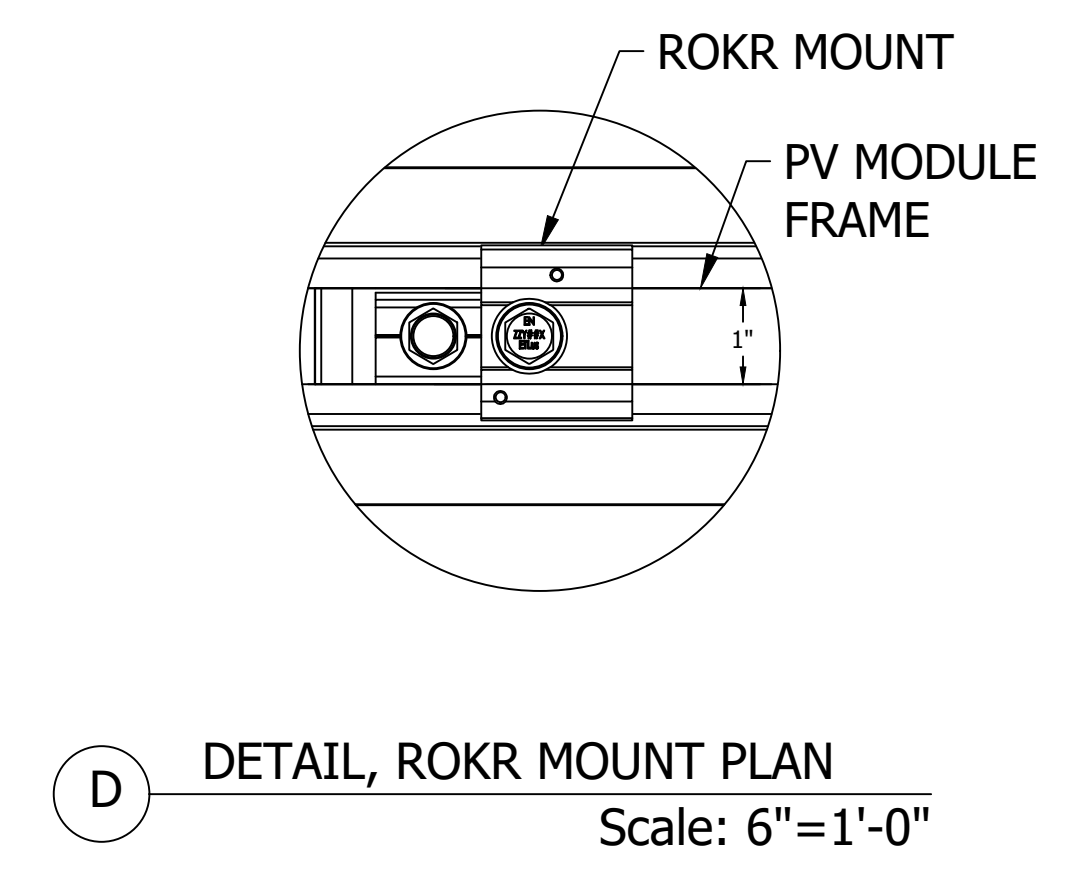
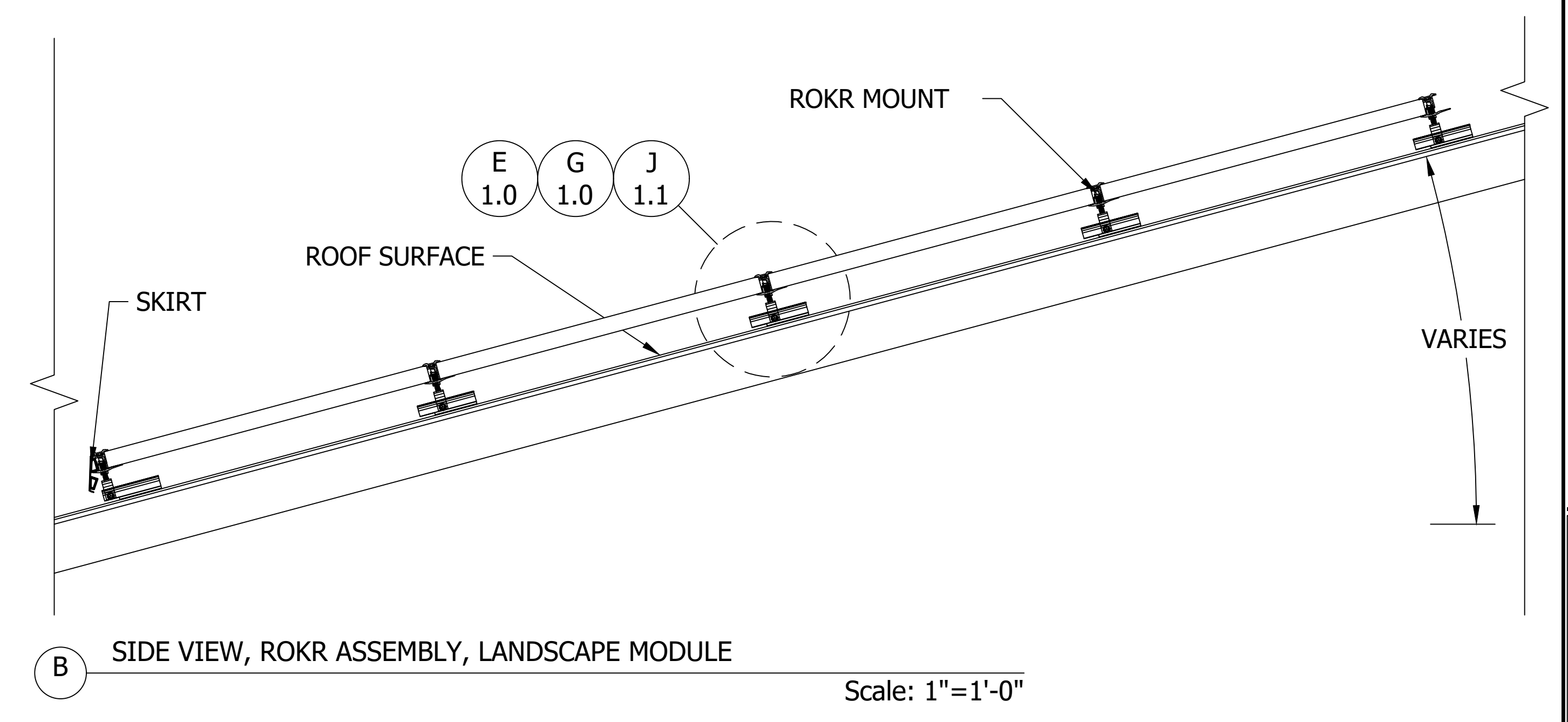
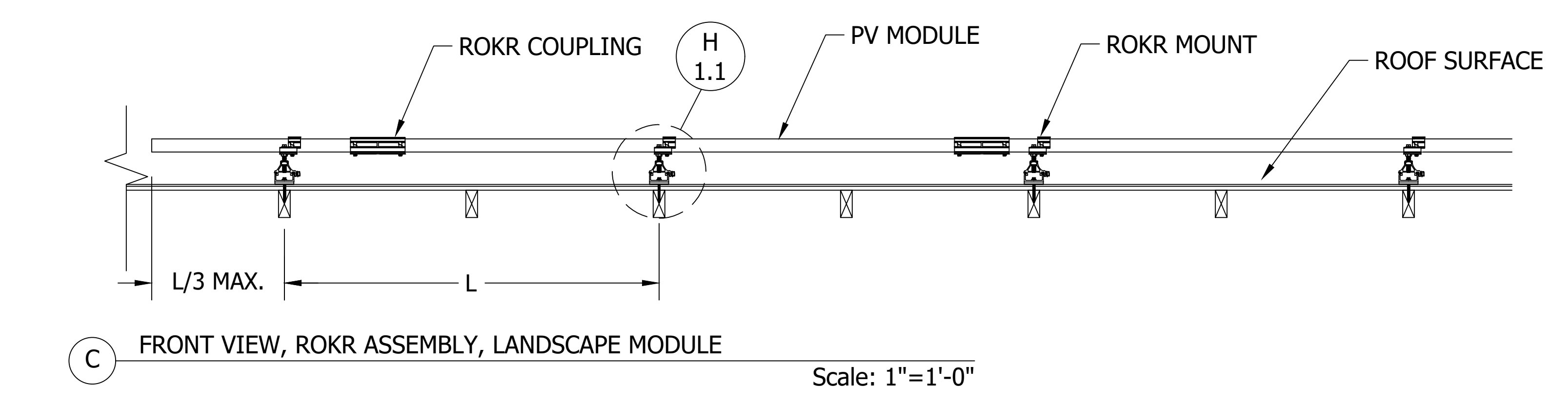
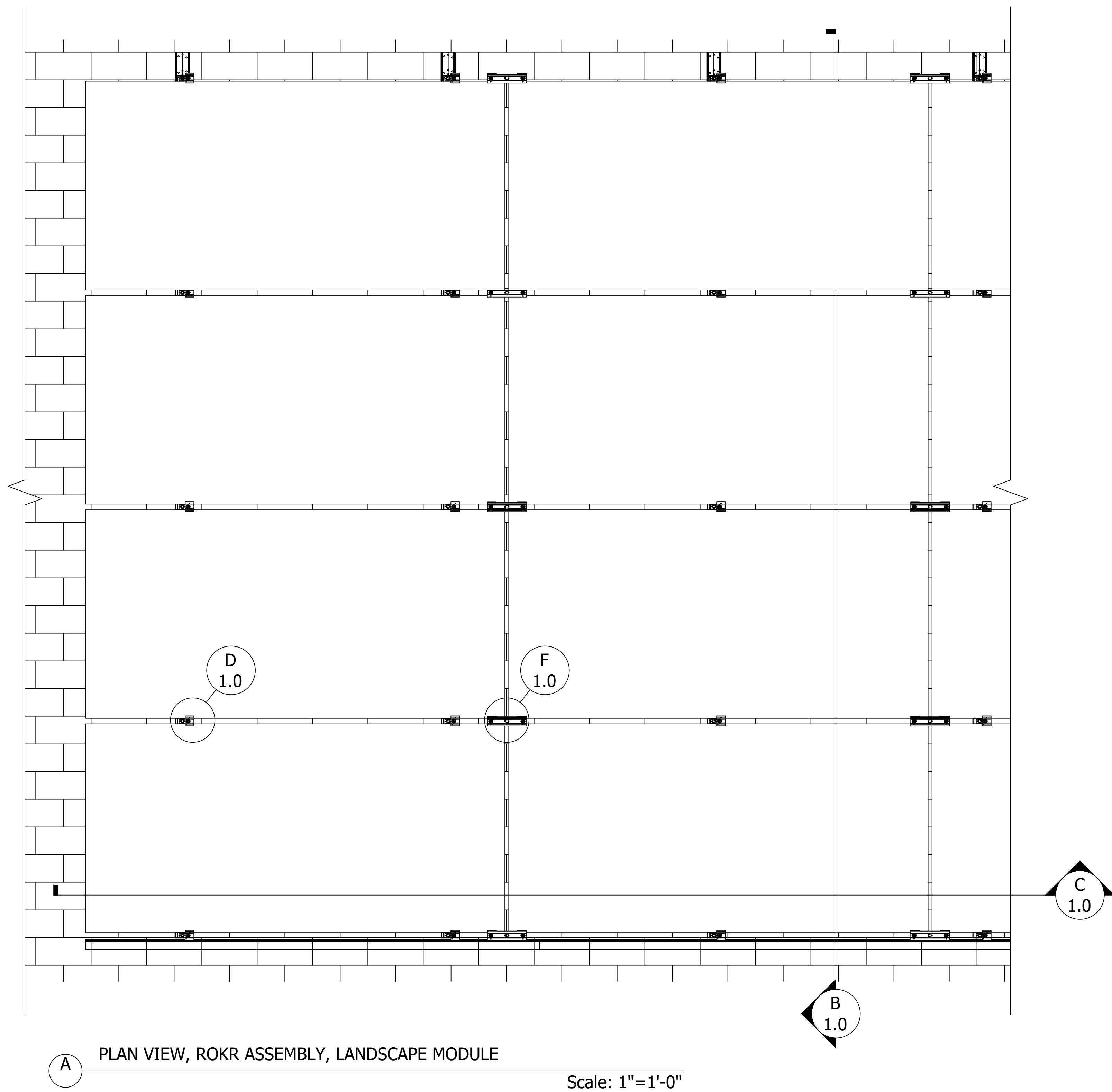
ROKR Smart Slide Rafter, 3 screw			Gable or Hip Roof Flush Mount System Span Table (inches) - Portrait Installation Max Module Length: 68.5", Max Module SF: 21.4 SF Exposure C																																																							
Wind Speed (mph)	Roof Slope (deg.)	Ground Snow: 0-50 psf			60 psf			70 psf			80 psf			90 psf			100 psf			110 psf			120 psf			130 psf			140 psf			150 psf			160 psf			170 psf			180 psf			190 psf			Exposed Module			Edge Module								
		Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3												
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[illegible]

[illegible]

ROKR Smart Slide Rafter, 3 screw			Gable or Hip Roof Flush Mount System Span Table (inches) - Portrait Installation Max Module Length: 86", Max Module SF: 26.9 SF Exposure B																																																	
Wind Speed (mph)	Roof Slope (deg.)	Ground Snow: 0-50 psf			60 psf			70 psf			80 psf			90 psf			100 psf			110 psf			120 psf			130 psf			140 psf			150 psf			160 psf			170 psf			180 psf			190 psf			Exposed Module			Edge Module		
		Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3						
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REV 03/05/2026



IRONRIDGE
AN ENSTALL COMPANY
28357 INDUSTRIAL BLVD. HAYWARD, CA 94545
800.227.9523 IRONRIDGE.COM

CLIENT NAME	IRONRIDGE		
PROJECT NAME	ROKR-SMARTSLIDE-ASSEMBLY		
PROJECT ADDRESS			
SYSTEM KW DC			

WIND SPEED, MPH	-
SNOW LOAD, PSF	-
EXPOSURE CAT	-
RISK CAT	-
MODULE TYPE	-
MODULE W DC	-
MODULE QTY	-

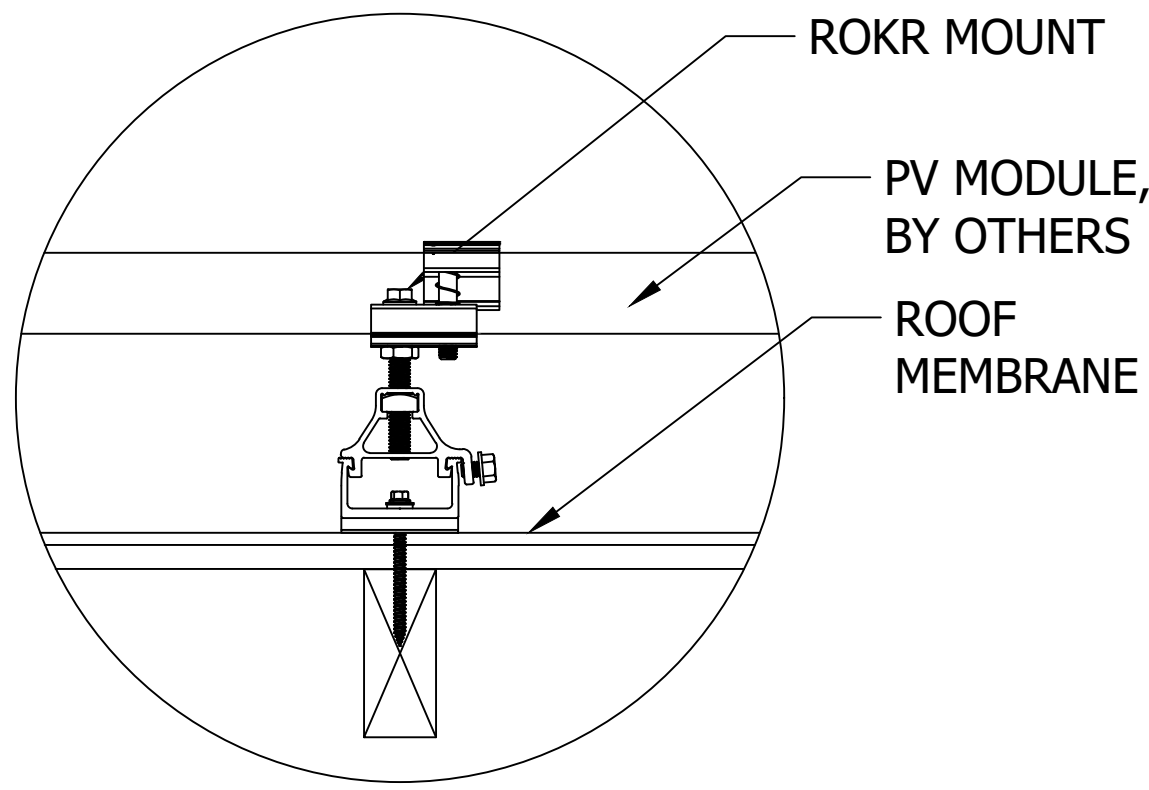
APPROVAL STATUS

REV	DESCRIPTION	DATE

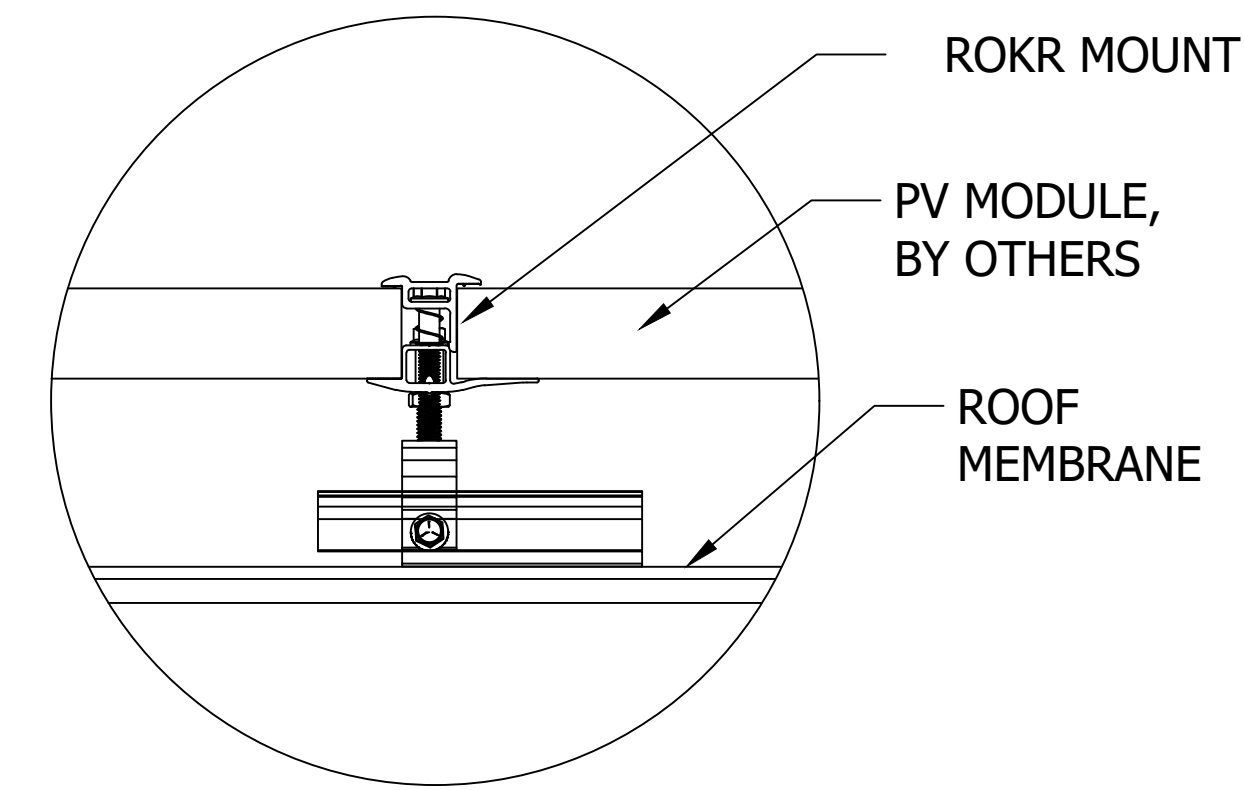
SHEET NAME

ROKR-SMARTSLIDE-ASSEMBLY

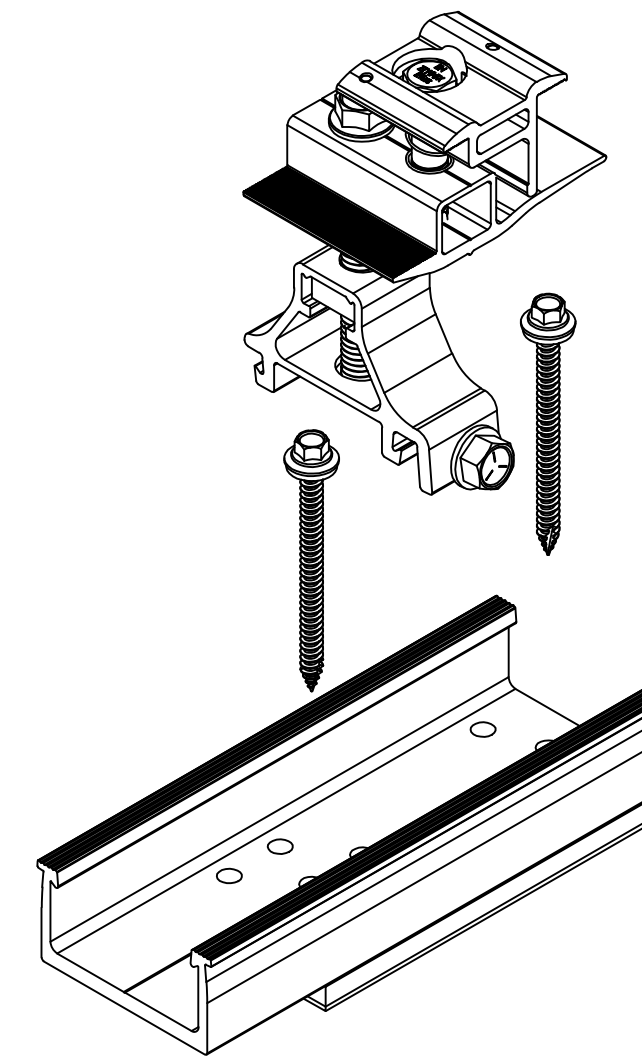
JOB NO.	-
ISSUE DATE	MAR 2026
SHEET NO.	IR-1.0
SHEET SIZE	24X36



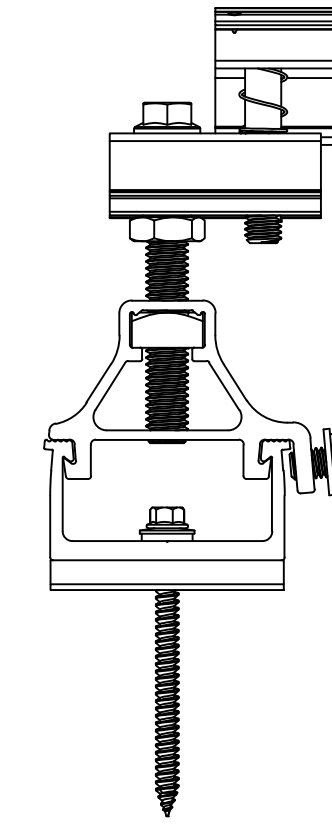
H ROKR SMART SLIDE DETAIL FRONT
Scale: 3"=1'-0"



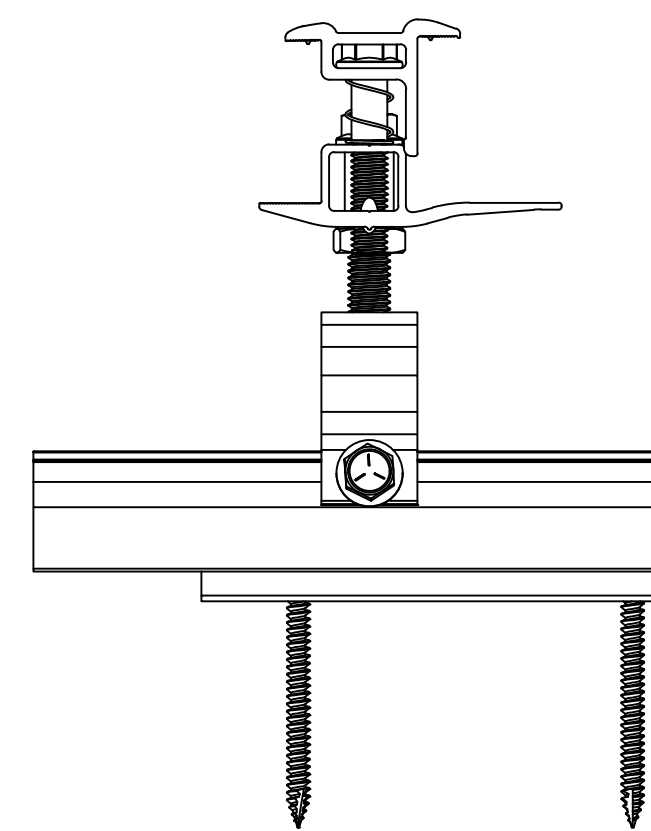
J ROKR SMART SLIDE DETAIL SIDE
Scale: 3"=1'-0"



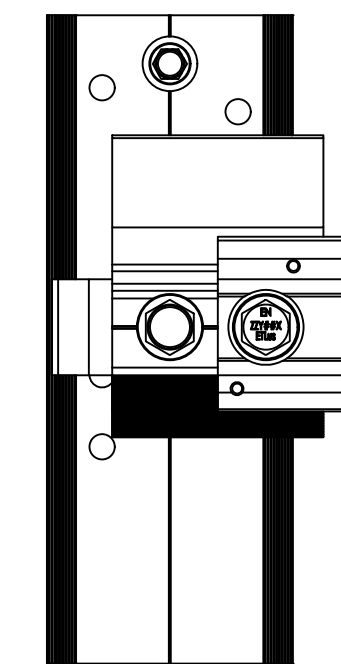
K ROKR SMART SLIDE



L ROKR SMART SLIDE, FRONT VIEW



M ROKR SMART SLIDE, SIDE VIEW



N ROKR SMART SLIDE, PLAN VIEW

CLIENT NAME	IRONRIDGE		
	ROKR-SMART-SLIDE-ASSEMBLY		
	PROJECT NAME		
	PROJECT ADDRESS		
	SYSTEM KW DC		

WIND SPEED, MPH	-
SNOW LOAD, PSF	-
EXPOSURE CAT	-
RISK CAT	-
MODULE TYPE	-
MODULE W DC	-
MODULE QTY	-

APPROVAL STATUS		

REVISION HISTORY		
REV	DESCRIPTION	DATE

SHEET NAME	
ROKR-SMARTSLIDE-ASSEMBLY	
JOB NO.	
ISSUE DATE	MAR 2026
SHEET NO.	IR-1.1
SHEET SIZE	24X36