

HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Robert Sutton
Chairman

Date: October 4, 2024

MEMORANDUM

TO: Rabbiah Sabbakhan

Department of Permitting Services

FROM: Laura DiPasquale

Historic Preservation Section

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #1088075 - Roof replacement and installation of roof-mounted

solar panels

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** by HPC Staff.

The HPC staff has reviewed and stamped the attached submission materials.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: David and Bernice Blair

Address: 24001 Whites Ferry Road, Dickerson

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Laura DiPasquale at 301.495.2167 or laura.dipasquale@montgomeryplanning.org to schedule a follow-up site visit.





HAWP #:	at:	
submitted on:_		
l has been reviev	ved and de	etermined that the proposal fits into the following category/categories:

Repair or replacement of a masonry foundation with new masonry materials that closely match the original in appearance;

Installation of vents or venting pipes in locations not visible from the public right-of-way;

New gutters and downspouts;

Removal of vinyl, aluminum, asbestos, or other artificial siding when the original siding is to be repaired and/or replaced in kind;

Removal of accessory buildings that are not original to the site or non-historic construction;

Repair or replacement of missing or deteriorated architectural details such as trim or other millwork, stairs or stoops, porch decking or ceilings, columns, railings, balusters, brackets shutters, etc., with new materials that match the old in design, texture, visual characteristics, and, where possible materials, so long as the applicant is able to provide one extant example, photographic evidence, or physical evidence that serves as the basis for the work proposed;

Construction of wooden decks that are at the rear of a structure and are not visible from a public right-of-way;

Roof replacement with -compatible roofing materials, or with architectural shingles replacing 3-Tab asphalt shingles;

Installation of storm windows or doors that are compatible with the historic resource or district;

Repair, replacement or installation of foundation-level doors, windows, window wells, and areaways, or foundation vents, venting pipes, or exterior grills that do not alter the character-defining features and/or the historic character of the resource:

Construction of fences that are compatible with the historic site or district in material, height, location, and design; Fence is lower than 48" in front of rear wall plane;

Construction of walkways, parking pads, patios, driveways, or other paved areas that are not visible from a public right-of-way and measure no more than 150 square feet in size;

Replacement of existing walkways, parking pads, patios, driveways, or other paved areas with materials that are compatible with the visual character of the historic site and district and that are no greater than the dimensions of the existing hardscape;

Construction of small accessory buildings no larger than 250 square feet in size that are not visible from the public right-of-way;

Installations of skylights on the rear of a structure that will not be visible from the public right-of-way, and would not remove or alter character-defining roof materials;

Installation of solar panels and arrays in locations that are not readily visible from the public right-of-way or that are designed so as to have a minimal impact on the historic resource or the historic district (e.g., systems that are ground-mounted in areas other than the front or side yard of a corner lot, located on accessory or outbuildings, on non-historic additions, or on rear facing roof planes);

Installation of car charging stations in any location on a property or in the right-of-way;

Installation of satellite dishes;

Removal of trees greater than 6" in diameter (d.b.h.) that are dead, dying, or present an immediate hazard.

Removal of trees greater than 6" in diameter (d.b.h.) in the rear of the property that will not impact the overall tree canopy of the surrounding district or historic site;

Replacement tree required as a condition; and, Other minor alterations that may be required by the Department of Permitting Services post-Commission approval that would have no material effect on the historic character of the property.

Staff finds the proposal complies with Chapter 24A, the Secretary of the Interior's Standards for Rehabilitation, and any additional requisite guidance. Under the authority of COMCOR No. 24A.04.01, this HAWP is approved by approved by a provided in the interior's Standards for Rehabilitation, and any additional requisite guidance. Under the authority of COMCOR No. 24A.04.01, this HAWP is approved by a provided in the interior's Standards for Rehabilitation, and any additional requisite guidance. Under the authority of COMCOR No. 24A.04.01, this HAWP is approved by a provided in the interior's Standards for Rehabilitation, and any additional requisite guidance. Under the authority of COMCOR No. 24A.04.01, this HAWP is approved by a provided in the interior's Standards for Rehabilitation, and any additional requisite guidance.



APPLICATION FOR HISTORIC AREA WORK PERMIT HISTORIC PRESERVATION COMMISSION 301.563.3400

DATE ASSIGNED__

Date

FOR STAFF ONLY: HAWP#___1088075

APPLICANT:

Name: Da	avid and Bernice Blair	E- mail:	berniceblair@i	cloud.com
Address:	24001 Whites Ferry Road	 City: Dick	erson	Zip :20842
	Phone:202- 236- 4588			570861
AGENT/C	CONTACT (if applicable):			
Name: _	Thomas J. Taltavull, architect	E-mail:	tom@tjtarchitects	s.com
Address:	20650 Plum Creek Court	 City:	hersburg	Zip: 20882
Davtime	Phone:	Contracto	or Registration N	lo.:
	ON OF BUILDING/PREMISE: MIHE		M-16-9	
Is there a	operty Located within an Historic E an Historic Preservation/Land Trus ne easement, and documentation	$\underline{ imes}$ No/Individust/Environmental Easen	al Site Name_ nent on the Pro	Annington perty? If YES, include a
(Conditio	r Planning and/or Hearing Examin nal Use, Variance, Record Plat, etc ental information.	• • •		• •
Building I	Number: <u>24001</u>	Street: Whites Ferry I	Road	
Town/Cit	y: <u>Dickerson</u>	Nearest Cross Street: _		
Lot:	Block: \$	Subdivision: Pa	arcel:	
for prop be accep Ne Ad De Gr	WORK PROPOSED: See the che losed work are submitted with lighted for review. Check all that appear to the construction to the	this application. Incooply: /Porch e scape/Landscape	mplete Application Shed/Gara Solar Tree remove Window/D Other:	ations will not ge/Accessory Structure gal/planting oor
and acc	certify that I have the authority to urate and that the construction wis and hereby acknowledge and ac	Il comply with plans rev	viewed and appoint ion for the issua	roved by all necessary

Signature of owner or authorized agent

HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING [Owner, Owner's Agent, Adjacent and Confronting Property Owners] Owner's mailing address Owner's Agent's mailing address Adjacent and confronting Property Owners mailing addresses

Description of Work Proposed: Please give an overview of the work to be undertaken:	
APPROVED]
REVIEWED Montgomery County Historic Preservation Commission	
KEVIEVVED By Laura DiPasquale, M-NCPPC at 12:32 pm, Oct 04, 2024 Historic Preservation Commission	
Ramata Man	

Work Item 1:	
Description of Current Condition:	Proposed Work:
Work Item 2:	
REVIEWED By Laura DiPasquale, M-NCPPC at 12:32 pm, Oct 04, 20.	APPROVED Montgomery County Historic Preservation Commission
Work Item 3:	Ramk h. Man
Description of Current Condition:	Propo

HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*



Maryland DEPARTMENT OF PLANNING MARYLAND HISTORICAL TRUST

Historic Preservation Easement Program Change/Alteration Request Application

This form is intended to be used by Maryland Historical Trust (MHT) Easement Property Owners and/or the Authorized Project Contact to initiate review of projects which require approval of the Director of the MHT as per the Deed of Easement. All **Change/Alteration Request Applications** must be submitted electronically (by email) along with pertinent supplemental information. Easement Program staff will evaluate the application for completeness and may require additional information to facilitate review by the Easement Committee and Director. The application review period (as specified by each Deed of Easement) will not commence until Easement Program staff has deemed the application to be complete.

Return the Change/Alteration Request Application, and other information to:
Historic Preservation Easement Program
Maryland Historical Trust, 100 Community Place, Crownsville, MD 21032
mht.easements@maryland.gov

Rame of Easement Property:

Alternative Name:
Address of Property:

					Count	ty:		
Maryland Inventory of History Pla	ces # (i	f known):						
(for more information visit http://r	nht.ma	ryland.gov/resea	rch surve	y.shtml)				
Scope of Easement: What does the Easement protect? (Check all the apply)		Exterior Interior Archaeology Is the scope of work located inside an easement boundary?			Yes No			
* For a copy of the easement document	, please	contact Kathy Mor	nday (410)	697-9575 ,	kathy.N	/lond	lay@marylaı	nd.gov
Property Owner Information								
Name of Current Property Owner:								
Address of Property Owner:								
(If different than property address)					Pu	rcha	se Date:	
Work/Home Telephone:				Fax:				
Mobile Telephone:				Email:				
If application is comp	eted by	y someone other t	than own	er (only co	mplete	if ap	oplicable):	
Name of Authorized Project Conta	ct:							
Relationship to Owner:								
Address of Authorized Project Cor	tact:							
				1				
Daytime Telephone:				Fax				
Mobile Telephone:				Ema	ail:			

Project Funding Information:					
Is this project being funded by any of the	MH	T Capital Grant (FY)			
following sources?	MH ⁻	T Loan			
	MHAA Capital Grant (FY)				
Please check all that apply:		IPP Grant (FY)			
		oric Tax Credits (Residential / Commercial)		
		d Bill (Chapter / Year)	•		
		er State/Federal Funding)			
		er Funding,			
			_		
Please check that you have included the following	information	n as part of your complete application:			
Required:		As Necessary (Recommended):			
Change/Alteration Request Application		Site Plan/Drawings/Plans (dated)			
Detailed Work Description		Product Information/Specifications			
Printed Photographs & CD; properly labeled/	'identified	Other			
The Easement Property Owner and/or the Authorize all application information sent to the MHT, includir application with the applicant prior to submission to	ng photos a	nd plans, as the MHT staff may need to discuss the			
Thomas J. Taltarall		August 19, 2024			

Signature of Owner or Authorized Representative

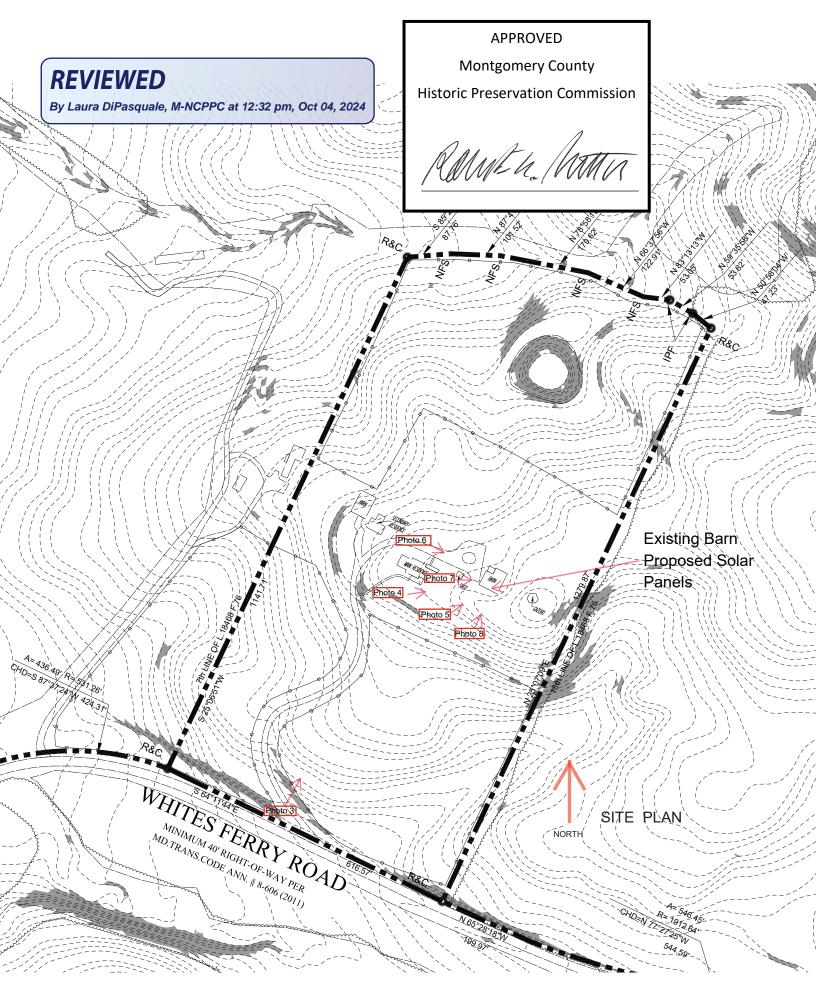
Date

Detailed Work Description Form

(Include all construction, reconstruction, improvement, enlargement, painting and decorating, alteration, demolition, maintenance or repair, and excavation)

Work Item #				
Architectural/Landscape Feature:	Describe, in detail, the proposed work and impact on			
Existing Barn	existing feature:			
Approximate date of feature: 1930's	Include details & specificati	ions on proposed products		
Describe existing feature and its condition:	Photo no.	Drawing no.		
Existing barn with wood siding and corrugated metal roofing. Existing barn is located approximately 100 feet east of main house.				

Work Item #				
Architectural/Landscape Feature:	Describe, in detail, the proposed work and impact existing feature:			
	Include details & s	pecifications on proposed products		
Approximate date of feature:		, , , , , ,		
Describe existing feature and its condition:	Photo no.	Drawing no.		



Annington Site Plan SP1



Photo 1- Annington Aerial View looking Northeast -2023

By Laura DiPasquale, M-NCPPC at 12:32 pm, Oct 04, 2024

APPROVED

Montgomery County
Historic Preservation Commission





Photo 2 - Annington Aerial View Looking North 2023

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Remote Mount

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Montgomery County

Historic Preservation Commission

REVIEWED

By Laura DiPasquale, M-NCPPC at 12:33 pm, Oct 04, 2024



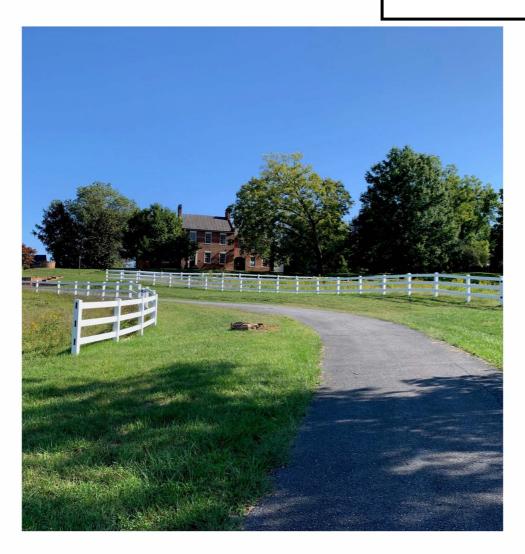


Photo 3 - Annington View from Entrance Road - 2023

By Laura DiPasquale, M-NCPPC at 12:33 pm, Oct 04

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Historic Preservation Commission



Photo 4 - Annington South Elevation of Main House and Barn - 2023

By Laura DiPasquale, M-NCPPC at 12:33 pm, Oct 04, 2024

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Photo 5 - Annington Southwest Elevation of Existing Barn October 2023

By Laura DiPasquale, M-NCPPC at 12:33 pm, Oct 04, 2024

APPROVED

Montgomery County

Historic Preservation Commission

Ramatha Mann



Photo 6- Annington West View of Barn - Sept. 2023

By Laura DiPasquale, M-NCPPC at 12:33 pm, Oct 04, 2024

APPROVED

Montgomery County
Historic Preservation Commission





Photo 7- Annington SouthWest View of Barn - Sept. 2023

By Laura DiPasquale, M-NCPPC at 12:33 pm, Oct 04, 2024

APPROVED

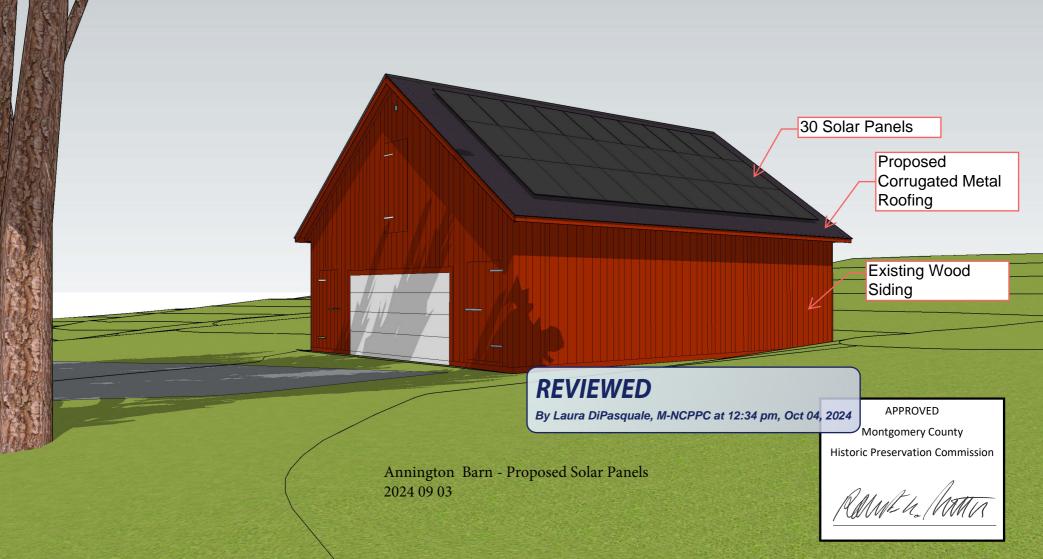
Montgomery County

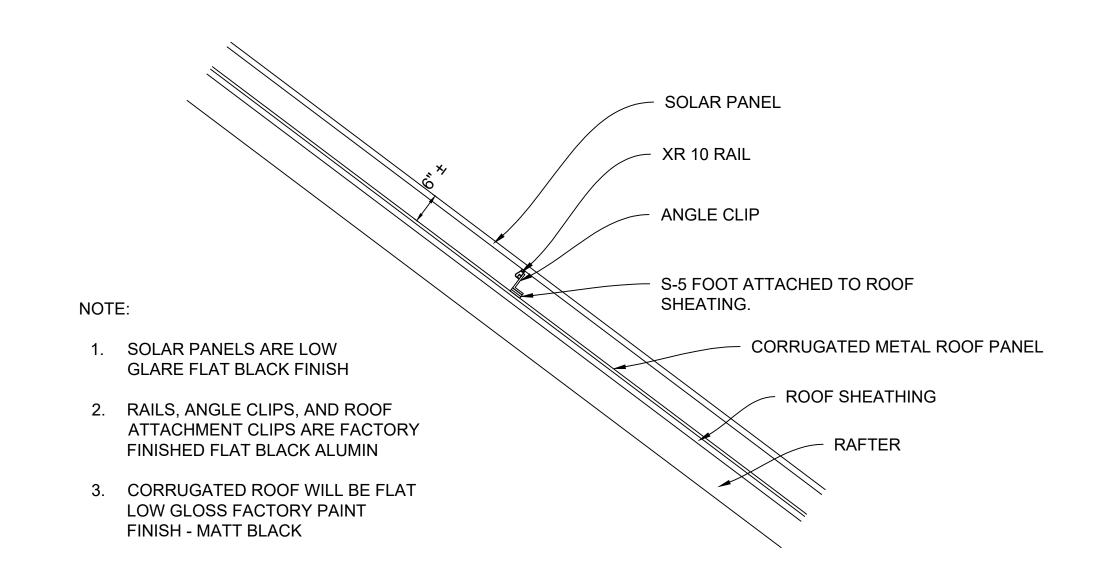
Historic Preservation Commission



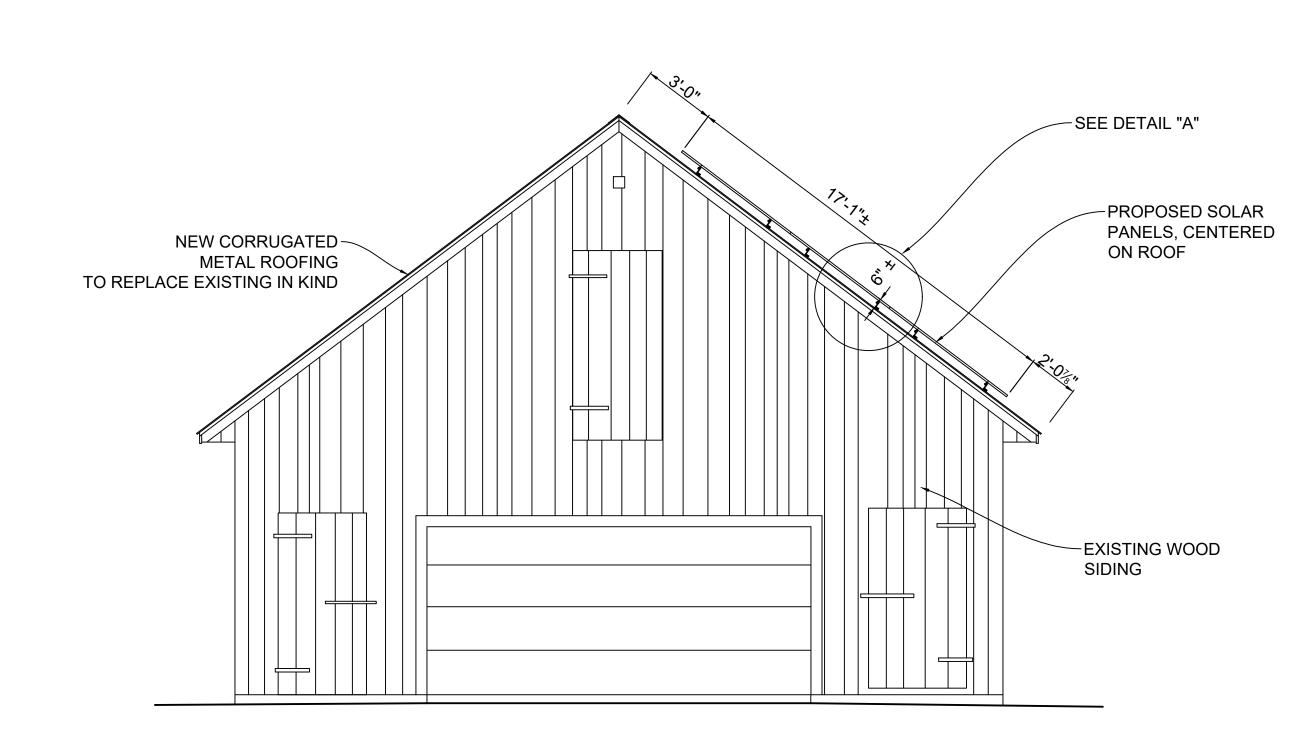


Photo 8- Annington South View of Barn - Sept. 2023

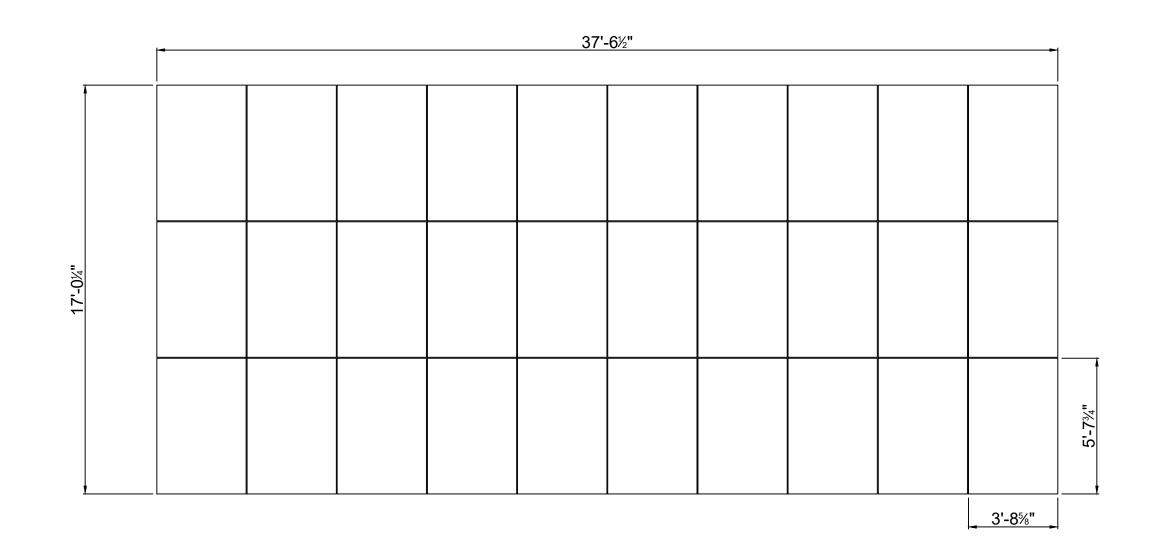




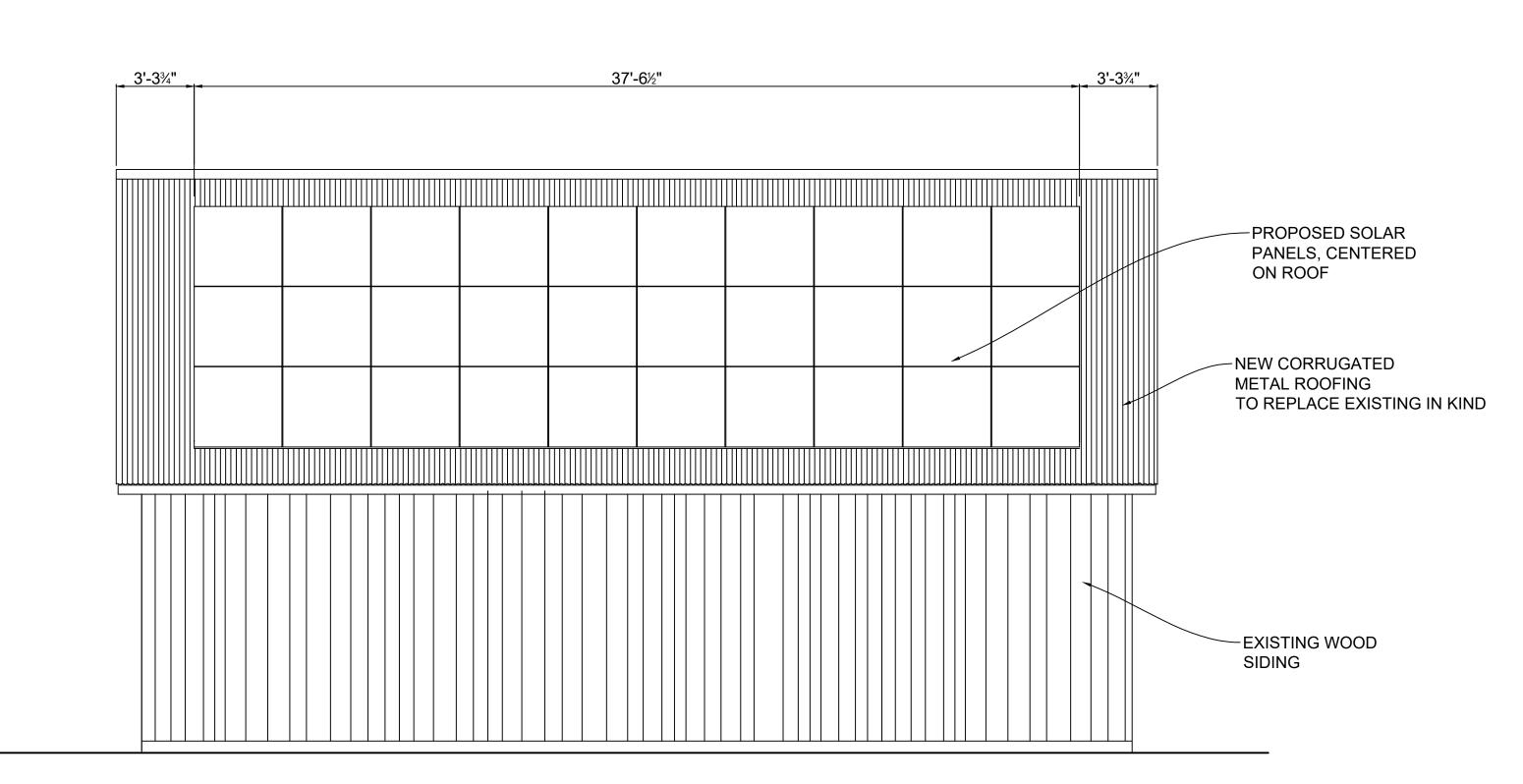
DETAIL "A" SOLAR PANEL 3/4" = 1'-0"



EXISTING BARN WEST ELEVATION 1/4" = 1'-0"



SOLAR PANEL PLAN 1/4" = 1'-0"



EXISTING BARN SOUTH ELEVATION 1/4" = 1'-0"

APPROVED **Montgomery County Historic Preservation Commission** REVIEWED By Laura DiPasquale, M-NCPPC at 12:34 pm, Oct 04, 2024

PLANNERS HISTORIC PRESERVATION

THOMAS J. TALTAVULL ARCHITECT 20650 PLUM CREEK COURT GAITHERSBURG, MARYLAND 20882

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland, License No.9083, Expiration Date: 6-13-2026

301.840.1847



Date: Sept. 3, 2024

Drawing Number

A2.3

BARN ELEVATIONS 1/4" = 1'-0"



APPROVED Montgomery County

Historic Preservation Commission

ample hour

AXIblackbipremium XXL HC

390 - 410 Wp

REVIEWED

By Laura DiPasquale, M-NCPPC at 12:34 pm, Oct 04, 2024

High performance bifacial solar md

108 halfcell, monocrystalline



German-American-Engineering

The advantages:



25 years Manufacturer's warranty



Up to 25 % more power output by Bifacial-Technology



Guaranteed positive power tolerance from 0-5 Wp by individual measurement



100% visual electroluminescence inspection in production



High stability due to innovative frame design



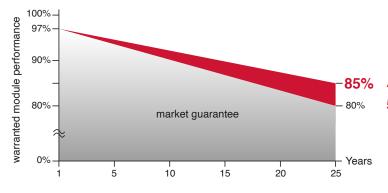
High quality junction box and connector systems



25 years Performance guarantee

GERMANDRAND 08MHEN221208A

Exclusive linear AXITEC high performance guarantee!



AXITEC Warranty Added Value: up to

5% more power after 25 years



Conforms to UL STD No.1703 Certified to ULC/ORD Std. C1703



AXIblackbipremium XXL HC 390 - 410 Wp

Electrical data (at standard conditions (STC) irradiance 1000 watt/m². spectrum AM 1.5 at a cell temperature of 25°C)

,	, ,				
Туре	AC-390MBT/108V	AC-395MBT/108V	AC-400MBT/108V	AC-405MBT/108V	AC-410MBT/108
Nominal output	390 Wp	395 Wp	400 Wp	405 Wp	410 Wp
Nominal voltage Umpp	30.64 V	30.84 V	31.01 V	31.21 V	31.45 V
Nominal current Impp	12.73 A	12.81 A	12.90 A	12.98 A	13.04 A
Short circuit current Isc	13.61 A	13.7 A	13.79 A	13.87 A	13.95 A
Open circuit voltag Uoc	36.85 V	36.98 V	37.07 V	37.23 V	37.32 V
Module conversion efficiency	19.97 %	20.23 %	20.48 %	20.74 %	21.00 %

APPROVED Montgomery County **Historic Preservation Commission**



Bifacial output - Backside Power gain

10% Power output	429.00 Wp	434.50 Wp	440.00 Wp	445.50 Wp	451.00 Wp
Module Effiency	21.97 %	22.25 %	22.53 %	22.81 %	23.10 %
15% Power output	448.50 Wp	454.25 Wp	460.00 Wp	465.75 Wp	471.50 Wp
Module Effiency	22.97 %	23.26 %	23.56 %	23.85 %	24.15 %
20% Power output	468.00 Wp	474.00 Wp	480.00 Wp	486.00 Wp	492.00 Wp
Module Effiency	23.97 %	24.27 %	24.58 %	24.89 %	25.20 %
25% Power output	487.50 Wp	493.75 Wp	500.00 Wp	506.25 Wp	512.50 Wp
Module Effiency	24.96 %	25.28 %	25.60 %	25.93 %	26.25 %

Design

Frontside 0.13 inch (3.2 mm) hardened, low-reflection white glass Cells 108 bifacial monocrystalline high efficiency cells Backside Composite film, cell gaps black

1.18 inch (30 mm) black aluminium frame

Mechanical data

IxWxH 67.80 x 44.65 x 1.18 inch (1722 x 1134 x 30 mm)

Weight 47.40 lbs (21.5 kg) with frame

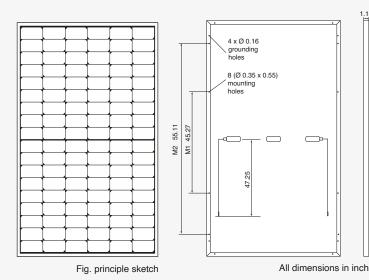
Mechanical load

Design load (pressure/suction) 75.3 PSF / 33.3 PSF Test load (pressure/suction) 113 PSF / 50 PSF

Power connection

Protection Class IP68 Socket Wire 47.25 inch, AWG 12

Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable Plug-in system



Limit values

1500 VDC (UL) 1500 VDC (IEC) System voltage Module Fire Performance TYPE 1 (UL 1703) or CLASS C (IEC 61730)

NOCT (nominal operating cell temperature)* 45°C +/-2K

Reverse current feed IR

Permissible operating

temperature -40°C to 85°C / -40F to 185F

Bifaciality 70 % ± 10 %

(No external voltages greater than Vo may be applied to the module)

* NOCT, irradiance 800 W/m2; AM 1.5; wind speed 1 m/s; Temperature 20°C

Temperature coefficients

Voltage Uoc -0.28 %/K 0.045 %/K Current Isc Output Pmpp -0.35 %/K

Low-light performance without Bifacial-effect

(Example for AC-410MBT/108V)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.66 A	30.27 V
400 W/m ²	5.38 A	30.62 V
600 W/m ²	8.03 A	30.86 V
800 W/m ²	10.62 A	31.12 V
1000 W/m ²	13.04 A	31.45 V

Packaging

Module pieces per pallet 36 936 Module pieces per HC-container

Montgomery County

Historic Preservation Commission

Callet h. Min

Introducing the new SolarFoot™ for exposed fastener metal roofing with the strength, testing, quality, and time-proven integrity you expect from S-5!. The SolarFoot provides an ideal mounting platform to attach the L-Foot (not included) of a rail-mounted PV system to the roof. This solution is The Right Way to secure rail-mounted solar systems to exposed fastener metal such as AG-Panel or R-Panel.

SolarFoot Features:

Manufactured in the U.S.A. from certified raw material

Fabricated in our own ISO 9001:2015 certified factory

All aluminum and stainless components

25yr limited warranty

Compatible with all commercial L-Foot products on the market

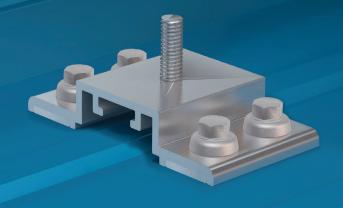
Factory applied 40-year isobutylene/ isoprene crosslink polymer sealant for reliable weathertightness

Sealant reservoir to prevent overcompression of sealant

Load-to-failure tested Normal to Seam by a nationally accredited laboratory on numerous metal roof materials and substrates

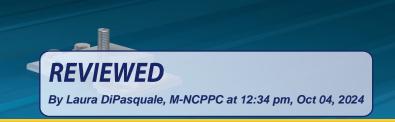
Four points of attachment into structure or deck with tested holding strength for engineered applications

Integrated M8-1.25x17mm stud and M8-1.25 stainless steel hex flange nut included



888-825-3432 | www.S-5.com





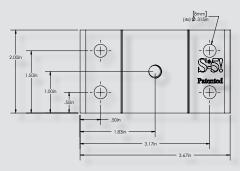
APPROVED

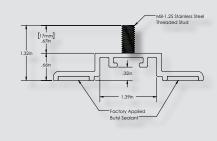
Montgomery County

Historic Preservation Commission

SolarFoot[™] Mounting for Exposed Fastene

The SolarFoot is a simple, cost-effective pedestal for L-Foot (not included) attachment of rail-mounted solar PV. The unique design is compatible with all rail producer L-Foot components. The new SolarFoot assembly ensures a durable weathertight solution for the life of the roof. Special factory applied butyl co-polymeric sealant contained in a reservoir is The Right Way, allowing a water-tested seal. Stainless integrated stud and hex flange lock-nut secure the L-Foot into position. A low center of gravity reduces the moment arm commonly associated with L-Foot attachments. Direct attachment of the SolarFoot to the structural member or deck provides unparalleled holding strength.





*Fasteners sold separately. Fastener type varies with substrate. Contact S-5! on how to purchase fasteners and obtain our test results. L-Foot also sold separately.

Fastener Selection





To source fasteners for your projects, contact S-5!

When other brands claim to be "just as good as S-5!", tell them to PROVE IT.

S-5!® Warning! Please use this product responsibly!

 $The independent \ lab \ test \ data \ found \ at \ www. S-5. com \ can \ be \ used \ for \ load-critical \ designs \ and \ applications.$

Products are protected by multiple U.S. and foreign patents. For published data regarding holding strength, fastener torque, patents, and trademarks, visit the S-5! website at www.S-5.com. Copyright 2017, Metal Roof Innovations, Ltd. S-5! products are patent protected.

Copyright 2017, Metal Roof Innovations, Ltd. Version 102017

SolarFoo

Exposed fast

via L-Foot and Rails

Weatherproof attachment to exposed fastener roofing

Butyl sealant reservoir provides long-term waterproof seal

M8-1.25x17mm stud with M8 hex flange nut for attachment of all popular L-Foot/rail combinations

Tool: 13 mm Hex Socket or ½" Hex Socket

Tool Required: Electric screw gun with hex drive socket for self-tapping screws.

Low Center of Gravity reduces moment arm commonly associated with L-Foot/Rail solar mounting scenarios

Attaches directly to structure or deck for optimal holding strength

S-5! Recommended substratespecific (e.g. steel purlin, wood 2x4, OSB, etc.) fasteners provide excellent waterproofing and pullout strength

Fastener through-hole locations comply with NDS (National Design Specification)for Wood Construction

Distributed by:



XR Rail® Family

Solar Is Not Always Sunny

REVIEWED

By Laura DiPasquale, M-NCPPC at 12:34 pm, Oct 04, 2024

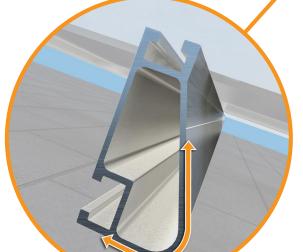
APPROVED

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing

enough to buckle a panel frame.

XR Rails® are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.





Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails[®] is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs



XR Rails® are compatible with FlashFoot® and other pitched roof attachments.



IronRidge® offers a range of tilt leg options for flat roof mounting applications.

Corrosion-Resistant Materials

All XR Rails® are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



XR Rail[®] Family

REVIEWED

By Laura DiPasquale, M-NCPPC at 12:35 pm, Oct 04, 2024

The XR Rail® Family offers the strength of a curved rail in threst argeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail® to match.





XR100

XR100 is a residential and commercial mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- · 10' spanning capability
- · Heavy load capability
- · Clear & black anodized finish
- Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

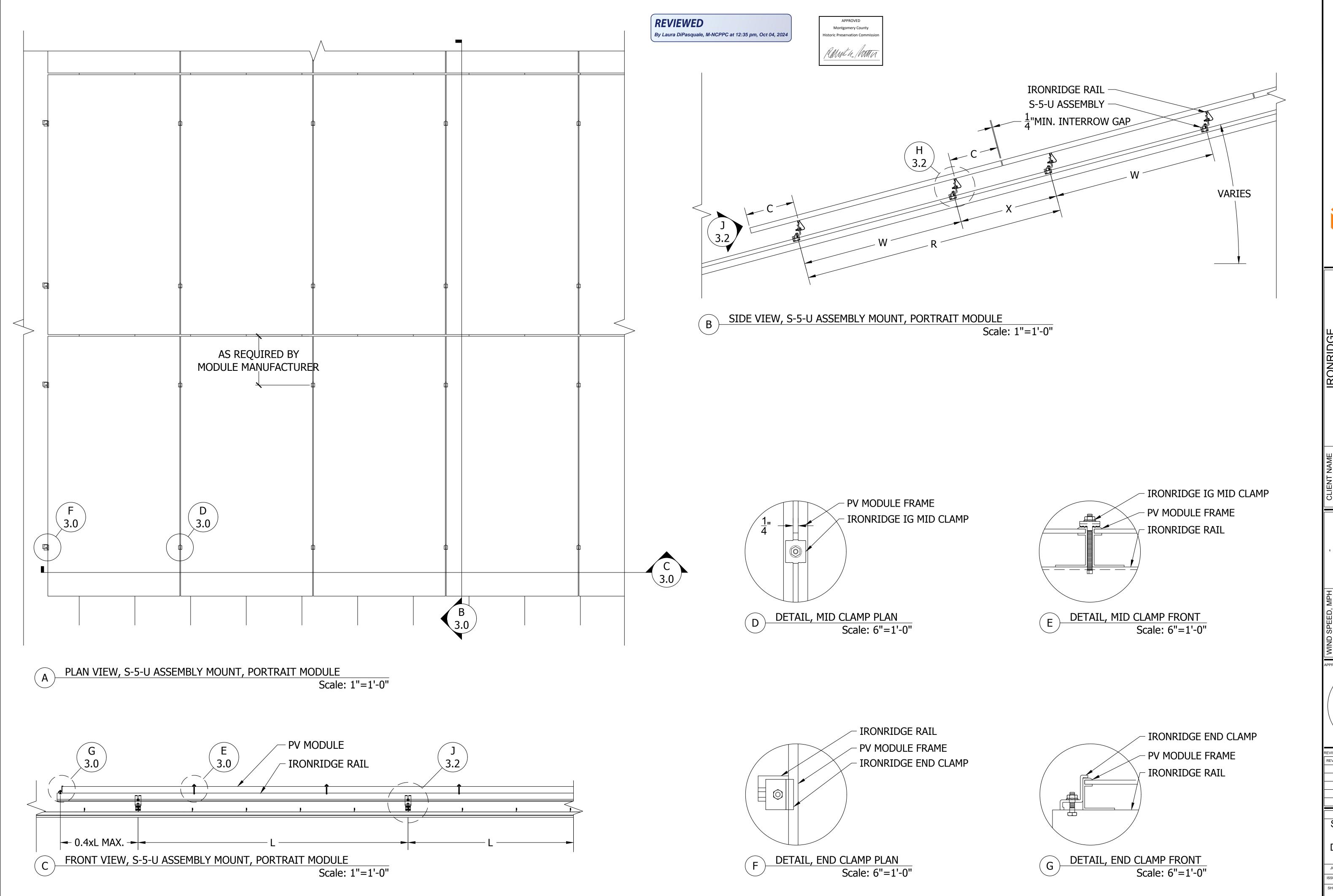
- · 12' spanning capability
- · Extreme load capability
- Clear anodized finish
- · Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Load		Rail Span						
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'	
None	90							
	120							
	140	XR10		XR100		XR1000		
	160							
20	90							
	120							
	140							
	160							
30	90							
	160							
40	90							
	160							
80	160							
120	160							

^{*}Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved certification letters for actual design guidance.



IRONRIDGE.COM

- CLIENT NAME IRONKIDGE
- PROJECT NAME SLOPED ROOF MOUNT SYSTEM KW DC
- SYSTEM KW DC
- SYSTEM KW DC

WIND SPEED,
SNOW LOAD,
SNOW LOAD,
AND LANGE OF THE STATE OF THE STATE

EVISION HISTORY

REV DESCRIPTION D

SHEET NAME

SLOPED ROOF

PV SYSTEM

DETAILS: S-5-U

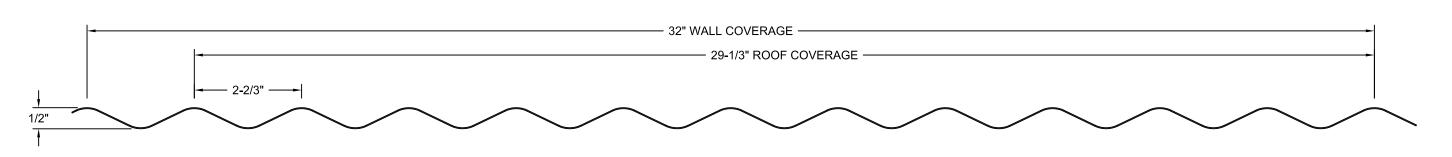
ASSEMBLY

JOB NO. 3.1 SR

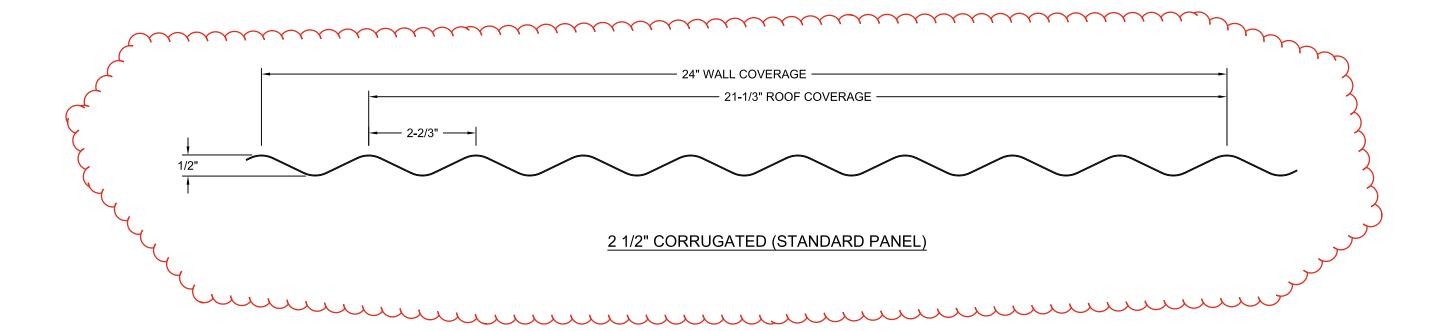
ISSUE DATE VY FER 2016

JOB NO. 3.1 SR
ISSUE DATE XX FEB 2016
SHEET NO. IR 3.0
SHEET SIZE 24X36

APPROVED



2 1/2" CORRUGATED (EXPANDED COVERAGE)





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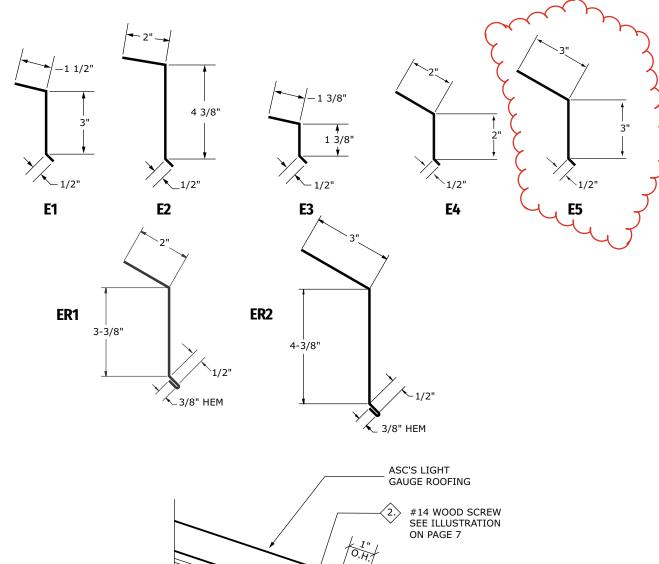
By Laura DiPasquale, M-NCPPC at 12:35 pm, Oct 04, 2024

APPROVED Montgomery County Historic Preservation Commission

ASC Building Products

Eave and Vented Eave Flashings

This flashing must be installed prior to the panels.



Procedures

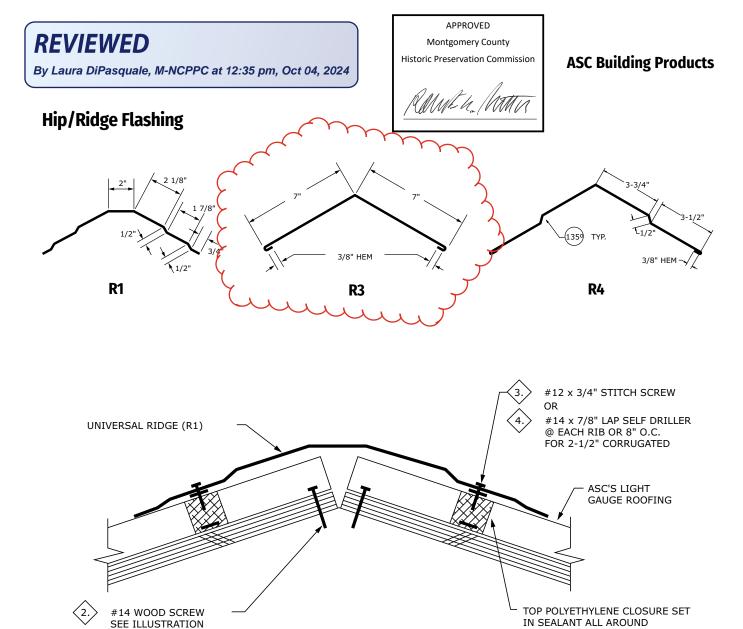
- Attach the eave flashing using roofing nails or trim screws evenly spaced to temporarily secure flashing prior to installing panels.
- Caulk and lap the flashing a minimum of 3". (see page 45)
- · Panels should overhang the eave 1" minimum.

Eave

BOTTOM POLYETHYLENE CLOSURE SET IN SEALANT ALL AROUND

ROOFING NAILS OR TRIM SCREWS

EAVE (E1)



Note: The gable flashing must be installed prior to installation of the ridge (see page 18).

ON PAGE 7

Procedures

- Caulk the bottom and sides of the polyethylene closure.
 Set the closure as shown above and caulk the top. The closure is optional if the panel is turned up and caulked at the sides near the rib.
- Fasten the ridge cap using stitch screw at each rib or 8"
 o.c. for 2-1/2" Corrugated.
- Close the ends of the universal ridge cap by cutting and folding material at each end. Fasten with rivets. (see page 10)
- Caulk, lap and rivet sequential ridge flashings. (see page 45)

Note: "R1" is a universal hip/ridge. A standard hip/ridge, "R3 & R4", is also available.

(SEE PROCEDURES)

REVIEWED By Laura DiPasquale, M-NCPPC at 12:35 pm, Oct 04, 2024 CULUN CHARL

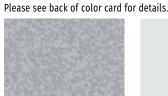
Not all colors and profiles are available at all locations.

APPROVED Montgomery County Historic Preservation Commission





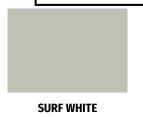
Callet h. Mann ommend you request a physical sample to review ering. We are not responsible for color variations.















ZINCALUME® Plus* SRI: 64 • LRV: 67 SRI: 88 • LRV: 74







CASCADE GRAY SRI: 58 • LRV: 41









MATTE BLACK SRI: N/A · LRV: 5









WEATHERED COPPER SRI: 32 • LRV: 11



TAHOE BLUE SRI: 33 • LRV: 14

EVERGLADE SRI: 35 • LRV: 19

DENALI GREEN SRI: 29 · LRV: 11



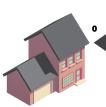


COPPER PENNY¹

SRI: 53 • LRV: 28

SRI: N/A · LRV: N/A

SLATE GRAY





PREMIUM COLOR

SRI: 32 • LRV: 10

(Subject to upcharge)

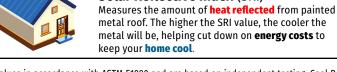
FOREST GREEN

SRI: 36 • LRV: 8





Measures how much visible light a color reflects and how much it absorbs. The higher the LRV, the more reflective it will **Solar Reflective Index (SRI)**



SRI values in accordance with ASTM E1980 and are based on independent testing. Cool Roof Rating Council (CRRC) performance values (for CA Title 24) are based on color families and will differ from above.

SRI=Solar Reflective Index. LRV=Light Reflectance Value. GA= Gauge of Steel. *Clear acrylic coated.

1Please note, these colors are batch sensitive (may have color variation) and are directional in nature. Different batches are not to be mixed on projects. ²IronOx is black steel (uncoated and unpainted), that rusts naturally. No warranty is offered or implied. Only available in 22 GA Nu-Wave® Corrugated.

REPRESENTATION OF COLORS MAY VARY DUE TO PRINTING LIMITATIONS.

Sample color chips are available upon request. Consult your ASC Building Products representative for more information.

Maryland DEPARTMENT OF PLANNING MARYLAND HISTORICAL TRUST

September 20, 2024

Thomas J. Taltavull Architect 20650 Plum Creek Court Gaithersburg, MD 20882

 $Re: \qquad Annington, \, Montgomery \, County-Change/Alteration$

Maryland Historical Trust Preservation Easement

Dear Mr. Taltavull:

The Maryland Historical Trust (MHT) is in receipt of your application, received on August 19, 2024, with additional information received on September 3, 2024, requesting approval to replace the barn roof in-kind and install solar panels on the south side of the new barn roof at Annington. MHT's Easement Committee (Committee) reviewed the information on September 10, 2024.

Based on the review and recommendation of the Committee, I grant approval to replace the barn roof inkind and install solar panels on the south side of the barn roof. This work is consistent with the Secretary of the Interior's *Standards for the Treatment of Historic Properties*, specifically *General Rehabilitation Standards 2, 5, 6, 9, and 10.*

This approval is valid for a period of six months from the date of this letter. Should you require additional time to complete the project, make any changes to the scope of work as approved, or have any questions regarding this letter, please contact MHT Easement Staff via email at mht.easements@maryland.gov.

Sincerely,

Elizabeth Hughes

Director

Maryland Historical Trust

Etiabeth Hyglin

EH/CN