Historic Preservation Commission



Members:

Mr. Larry Jackson – Chairperson
Mr. Tim Hoffman - Secretary
Mr. Nathan C. Williams
Dr. Lincoln Wilkins, Jr.
Ms. Lynda Lambert
Dr. Brian Plitnik
Councilwoman: Laurie Marchini

Staff Liaison: Ruth Davis - Rogers, Historic Preservation Planner

AGENDA

Historic Preservation Commission Cumberland City Hall, Council Chambers Dec. 13th, 2023, 4:00 P.M.

APPROVAL OF MINUTES

• Review and approval of Nov. 2023 meeting minutes

PUBLIC COMMENT

CERTIFICATE OF APPROPRIATENESS

Consent Agenda – these COA's received administrative approval

- 305 Washington St. COA23-000065 (*sign permit*) Applicant: Allegany College of Maryland
- 201 S. Mechanic St. COA23-000067 (after-the-fact painting) Applicant: Brian Dillon

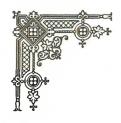
Regular Agenda – to be reviewed by HPC

• 308 Washington Street COA23-000063 (solar panels) Applicant: Energy Select

TAX INCENTIVES

• 505 Washington Street (Step 3 Approval)
Applicant: Michael and Nancy Armiento

OTHER BUSINESS
ANNOUNCEMENTS
ADJOURNMENT `



City of Cumberland



MINUTES

HISTORIC PRESERVATION COMMISSION November 15, 2023

The Cumberland Historic Preservation Commission held its regular meeting on Wednesday, November 15, 2023, within the Council Chambers of City Hall. Members present were, Mr. Larry Jackson, Mr. Tim Hoffman, Mr. Brian Plitnik, Councilwoman Laurie Marchini, Ms. Lynda Lambert, Mr. Nathan Williams, and Mr. Justin Paulman.

Others in attendance were, Ms. Ruth Davis-Rogers, Historic Preservation Planner/Grants Management, Ms. Chelsea Rexrode, Codes Technician. There were no citizens or press representatives were in attendance.

Chairman, Mr. Larry Jackson, called the meeting to order. He read the following statement into the record: "The Cumberland Historic Preservation Commission exists pursuant to Section 11 of the City of Cumberland Municipal Zoning Ordinance. Members are appointed by the Mayor and City Council and shall possess a demonstrated special knowledge or professional or academic training in such fields as history, architecture, architectural history, planning, archeology, anthropology, curation, conservation, landscape architecture, historic preservation, urban design, or related disciplines. The Commission strives to enhance quality of life by safeguarding the historical and cultural heritage of Cumberland. Preservation is shown to strengthen the local economy, stabilize and improve property values, and foster civic beauty. The Cumberland Historic Preservation Commission operates pursuant to State of Maryland 1977 Open Meetings Act and therefore no pending applications shall be discussed between or amongst Commissioners outside the public hearing to determine the disposition of the application."

APPROVAL OF MINUTES

1. Minutes from October 2023 were approved as written. Mr. Tim Hoffman made the motion for approval and Ms. Lynda Lambert, seconded the motion. All members were in favor. Motion approved.

PUBLIC COMMENTS

There were no comments made.







CONCENT AGENDA

1. 305 Washington St. - COA23-000060 (Roof & Chimney Repair)

Applicant: Tara Collier

2. 74 Baltimore St. - COA23-000061 (Brick & Stucco Repair)

Applicant: James Mckee

3. 19 Frederick St. - COA23-000062 (Surveillance Camera)

Applicant: CEDC - Matt Miller

4. 514 Washington St. - COA23-000063 (Roof Repair)

Applicant: Chris Sloan

Mr. Larry Jackson read the approval statement: We have studied the application in all other relevant documents and presentation related to the for-mention cases COA23-000060, COA23-000061, COA23-000062, and COA23-000063. We find the properties on the approve Certificate of Appropriateness contribute to the Historic Districts where they are located and the proposed changes are consisted with guidelines and criteria found in the Historic Preservation District designed guidelines for Cumberland Maryland.

REGULAR AGENDA

• Nothing to be reviewed this month by the Commission

TAX INCENTIVES

305 Washington St. (Step 1 & Step 2 Approval)
 Applicant: Tara Collier/ Hemlock Leasing LLC

2. 74 Baltimore St. (Step 1 & Step 2 Approval)
Applicant: Katherine James Realty

Mr. Larry Jackson read "Maryland State law grants the City of Cumberland the authority to provide local historic preservation tax credits. Before us are tax credit application for work to be performed at 69 Baltimore St. We have studied the applications and find that these properties quality based on City of Cumberland Code and section 9-204 of the Tax Property Article of the Annotated Code of Maryland."

OTHER BUSINESS/STAFF UPDATES

- 1. Handouts were given to the Commission to review after our meeting regarding Solar Panels on Historic Properties.
- 2. Ruth attended National Trust for Historic Preservation Conference last week and had great feedback about the activity that Cumberland is experiencing at this time.
- 3. Historic Preservation Plan will be presented to the Mayor and City Council on December 19, 2023 for acceptance.
- 4. There is a new Arts Commission that is being proposed. The Commission will review public murals and art within the arts district of the city. It will consist of 10 Commission Members.
- 5. The 1st Winter Festival and Market to be held on December 2nd and December 9th, 2023. If you would like to volunteer, please contact Melinda Kelleher.
- 6. The Maryland Historical Trust will be offering their yearly loan program. Applications will be taken until January 15, 2023.
- 7. The Maryland Historical Trust held an archeological dig. The State is putting in a request to the National Park Service to see if they can hold a field session.
- 8. The Community Legacy Reward will be announced soon. We proposed to do façade improvements on N Mechanic/ N Centre Streets and some other things to help support historical preservation in the area.
- 9. Ms. Lynda Lambert is currently writing newspaper articles on historic preservation. One article has been published to date.

An audio of tonight's meeting is available upon request.

ADJOURMENT

Mr. Larry Jackson adjourned the meeting.

Respectfully,
Mr. Tim Hoffman, Secretary

Permit Number: COA23-000067

Approval Date: 11/27/2023

Certificate of Appropriateness Permit

Permit issued as per plans and subject to all applicable Preservations Guidelines, City Codes and regulations.

Project Location: MD Prop. #: Owner:	201 S MECHANIC ST 04048881 CCVI WESTERN MD LLC	Date applied: Work expected to begin:	11/16/2023 11/27/2023
Applicant:	Brian Dillon	Contractor:	
Address:	454 Walnut St.	Address:	454 Walnut St.
City/State/Zip:	Cumberland MD 21502	City/State/Zip:	Cumberland MD 21502
Phone:	(301) 724-1110	Phone:	(301) 724-1110
Email:		Email:	
		MD Master Plumber License #:	

 Quantity
 Description
 Amount
 Total Cost

 1.0Certificate of Appropriateness Review Fee
 30.00
 30.00

Project Description:

COA, after the fact, for painting the wood and brick of building at right side and rear (front remains natural brick). New colors are black and gray.

Administrative approval, for exterior painting of brick on a commercial building in the historic district, by Ruth Davis-Rogers - Historic Preservation Planner

Signature / Date

STATEMENT: I hereby agree to comply with all regulations which are applicable hereto, and further agree that the proposed work shall be faithfully carried out as described on this request and as shown on the plans accompanying same, and not otherwise. This application hereby expires six months following the file date if no action is taken to start specified work. Also, this application will expire six months following the file date if the applicant fails to provide additional information as requested by the HPC or its staff in order for the Commission to render a decision. The application is active for two years.

Signature



Issued

Certificate of Appropriateness #COA23-000067

Agenda Item: COA23-000067

Project Address: 201 S MECHANIC ST

Meeting Date: 11/27/2023 Property Number: 04048881

Brian Dillon 454 Walnut St. Cumberland, MD 21502

Dear Applicant:

The Historic Preservation Commission of the City of Cumberland on the above date, considered the application for construction at the above address as follows:

Exterior improvements are to include: COA, after the fact, for painting the wood and brick of building at right side and rear (front remains natural brick). New colors are black and gray.

The application was:

Issued

APPROVED with the following conditions: Administrative Approval, for exterior painting of brick on a commercial building in the historic district, by Ruth Davis-Rogers, Historic Preservation Planner

Sincerely,

Ruth Davis-Rogers

Cc:Planning and Zoning

COA File

NOTE: Please note that the approval listed above only constitutes the approval of the Historic Preservation Commission. You must still ensure that all other permits associated with this project, if required, have been applied for and approved by the Building and Zoning Officer. EXPIRATION OF CERTIFICATES OF APPROPRIATENESS: This application hereby expires six months following the file date if no action is taken to start specified work. Also, the application will expire six months following the file date if the applicant fails to provide additional information as requested by the HPC or its staff in order for the Commission to render a decision.

City of Cumberland - Dept. of Community Development

Internal Routing Sheet

COA23-000067 Permit or Review #:

Permit or Review Type: Certificate of Appropriateness

Project Location: 201 S MECHANIC ST CUMBERLAND, MD 21502

Applicant Contact Information: Name: Brian Dillon

454 Walnut St. Address:

City/State/Zip: Cumberland MD 21502

(301) 724-1110 Phone:

Email:

Contractor Contact Information: Company Name:

Contact: Brian Dillon Address: 454 Walnut St.

City/State/Zip: Cumberland MD 21502

Phone: (301) 724-1110

Email:

Date of

11/16/2023

Application:

Work Description: (narrative box)

COA, after the fact, for painting the wood and brick of building at right side and rear (front remains natural brick).

New colors are black and gray.

- via Lara from Code Violizhons Amount Paid: 30.00

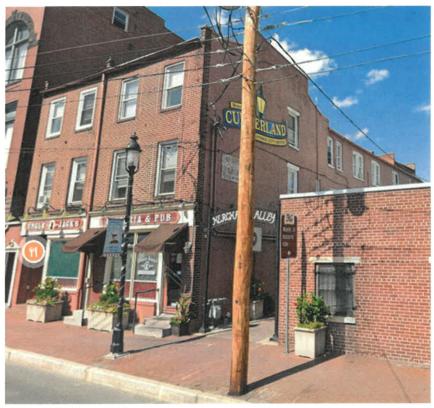
Amount Due: 0.00

Need:
Valuation &

Fill written supe of work

color(6) name

photo now current

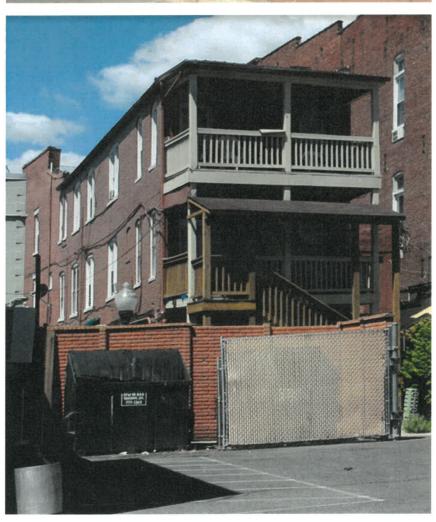


14-20 S. Mechanic St.

Prop. ID #: 04-04881

20 S. Mechanic St.

Uncle Jack's Pizzeria & Pub



City of Cumberland - Dept. of Community Development

Internal Routing Sheet

Permit or Review #: COA23-000065

Permit or Review Type: Certificate of Appropriateness

Project Location: 112 BALTIMORE ST CUMBERLAND, MD 21502

Applicant Contact Information: Name: Allegany College of Maryland

Address: 12401 Willowbrook Road

City/State/Zip: Cumberland MD 21502

Phone: 3017845220

Email: klayman@allegany.edu

Contractor Contact Information: Company Name: Morgantown Printing & Binding

Contact:

Address: 915 Green Bag Rd

City/State/Zip: Morgantown WV 26508

Phone: (304) 292-3368

Email:

Date of

11/13/2023

Application:

Work Description: (narrative box)

Allegany College of Maryland will be replacing decals on right-hand door of main entry doors. Decal will be installed on interior side of glass per City guidelines. Decal size is 17.3" w x 37.7" h. Total sq. ft. of signage is 4.5. Decal created by Morgantown Printing & Binding with installation being done by Allegany College of Maryland.

Ref: SP23-000065

Amount Paid: 0.00 Amount Due: 0.00

Permit Number: COA23-000065

Approval Date: 12/08/2023

57 N. LIBERTY STREET, CUMBERLAND, MD 21502 • PHONE 301-759-6442 • FAX 301-759-6432 • TDD 800-735-2258 www.cumberland.gov

Certificate of Appropriateness Permit

Permit issued as per plans and subject to all applicable Preservations Guidelines, City Codes and regulations.

Project Location: MD Prop. #: Owner:	112 BALTIMORE ST 14004483 ALLEGANY COLLEGE OF MARYLAND	Date applied: Work expected to begin:	11/13/2023 12/08/2023
Applicant:	Allegany College of Maryland	Contractor:	Morgantown Printing & Binding
Address:	12401 Willowbrook Road	Address:	915 Green Bag Rd
City/State/Zip:	Cumberland MD 21502	City/State/Zip:	Morgantown WV 26508
Phone:	3017845220	Phone:	(304) 292-3368
Email:	klayman@allegany.edu	Email:	
		MD Master Plumber License #:	00000

Quantity Description Amount Total Cost

Project Description:

Allegany College of Maryland will be replacing decals on right-hand door of main entry doors, Decal will be installed on interior side of glass per City guidelines. Decal size is 17.3" w x 37.7" h. Total sq. ft. of signage is 4.5. Decal created by Morgantown Printing & Binding with installation being done by Allegany College of Maryland. Ref: SP23-000065

STATEMENT: I hereby agree to comply with all regulations which are applicable hereto, and further agree that the proposed work shall be faithfully carried out as described on this request and as shown on the plans accompanying same, and not otherwise. This application hereby expires six months following the file date if no action is taken to start specified work. Also, this application will expire six months following the file date if the applicant fails to provide additional information as requested by the HPC or its staff in order for the Commission to render a decision. The application is active for two years.

Signature



CERTIFICATE OF APPROPRIATENESS DECISION

Certificate of Appropriateness #COA23-000065

Agenda Item: COA-000065

Project Address: 112 BALTIMORE ST

Meeting Date: 12/08/2023 Property Number: 14004483

Issued

Korey Layman 12401 Willowbrook Road Cumberland, MD 21502

Dear Applicant:

The Historic Preservation Commission of the City of Cumberland on the above date, considered the application for construction at the above address as follows:

Exterior improvements are to include: Allegany College of Maryland will be replacing decals on right-hand door of main entry doors. Decal will be installed on interior side of glass per City guidelines. Decal size is 17.3" w x 37.7" h. Total sq. ft. of signage is 4.5. Decal created by Morgantown Printing & Binding with installation being done by Allegany College of Maryland.

Ref: SP23-000065

The application was:

Issued

APPROVED with the following conditions: Administrative Approval by Ruth Davis - Rogers, Historic Preservation Planner

Sincerely,

Ruth Davis-Rogers

Full Chanis Low

Cc:Planning and Zoning

COA File

NOTE: Please note that the approval listed above only constitutes the approval of the Historic Preservation Commission. You must still ensure that all other permits associated with this project, if required, have been applied for and approved by the Building and Zoning Officer. EXPIRATION OF CERTIFICATES OF APPROPRIATENESS: This application hereby expires six months following the file date if no action is taken to start specified work. Also, the application will expire six months following the file date if the applicant fails to provide additional information as requested by the HPC or its staff in order for the Commission to render a decision.



MPB Print & Sign Superstore

915 Greenbag Road Morgantown, WV 26508 Tel:888-292-0001

Email:sales@mpbonline.com

ESTIMATE 114933 A / BRD

Date: 11/08/2023

Shannon Redman

Allegany College Of MD

12401 Willow Brook Rd SE Cumberland, MD 21502

We are pleased to submit this estimate based on the following specifications:

Title:

Window Decal

Size:

17.3"w x 37.7"h

Graphics:

Print ready files supplied - this quote only includes time for 1 initial prepress set up. ANY

formatting, changes, or new file submission may incur additional charges. The graphics rate is

\$75 per hour with a \$15 minimum. Last job#297941.

Proof:

PDF proof to customer

Printing:

4+white/0-face adhesive

Materials:

clear decal

Bindery:

trim, pack for customer install

Delivery:

ship ground

Notes:

Terms: All prices exclude sales tax and postage when applicable. All orders are subject to a review of artwork and our terms & conditions, available by request. All estimates are valid for thirty (30) days. If acceptance of this estimate is received after this period has lapsed, a revised estimate may be required.

Quantity

Price

1

\$75.00

I hope our estimate meets your requirements and look forward to receiving your instruction to process this order. If I can be of any further assistance, please do not hesitate to contact me.

Sincerely,

Thad Welch

Senior Account Manager





November 16th, 2023

Mayor & City Council City of Cumberland 57 N. Liberty St. Cumberland, MD 21502

Dear Ms. Davis-Rogers,

Allegany College of Maryland is currently in the early planning phases of replacing vinyl-lettering window signage, present on the entrance to our building at 112 Baltimore St., or better known as the "Gateway Center".

With the assistance of the Ms. Robyn Roberts, it was determined that along with the submission of the application for a "Signage Permit" and a "Certificate of Appropriateness", the College should also submit a written letter to the Mayor and City Council in order for a determination to be made as to whether or not the City of Cumberland would be considering the College tax-exempt.

Allegany College of Maryland is among the sixteen community colleges of Maryland considered to be public institutions of higher education that were established pursuant to Title 16 of the Education Article of the Annotated Code of Maryland. They are all non-profit organizations and are State tax exempt.

The tax exemption afforded community colleges allows us to not only fulfill our vision of "being the College of choice that transforms lives, strengthens communities, and makes learners the center of everything we do", our mission of "delivering diverse and relevant education centered around student success in a supportive and engaging community", but it also allows maximize the benefit that we provide to our students and community, which are then paid forward to society as a whole. Community Colleges provide communities such as Cumberland with the educated, skilled, and productive workforce needed to drive the local economy forward.

We formally ask the City of Cumberland to please consider the College's tax exemption status, and the waive any associated fees.

Sincerely,

Christina Kilduff

VP of Finance and Administration



PERMIT PROJECT
FILE #: 23-001704
308 WASHINGTON ST CUMBERLAND MD 21502
INSTALLATION OF (20) ROOF MOUNTED SOLAR PANELS AND (20)
MICROINVERTERS







PERMIT #: COA23-000066

Permit Type
Certificate of Appropriateness

Subtype
Certificate of Appropriateness

Work Description:
Installation of (20) roof mounted solar panels and (20) microinverters

Applicant
Energy Select LLC - Kristi Felton

Status
Online Application Received



FEES & PAYMENTS

Valuation 0.00

 Plan Check Fees
 30.00

 Permit Fees
 0.00

 Total Amount
 30.00

 Amount Paid
 0.00

 Balance Due
 30.00

 ☐ Non-Billable
 30.00



PERMIT DATES

Application Date 11/13/2023

Approval Date

Issue Date:

Expiration Date:

Close Date

Last Inspection

Non-Billable Comments

Contractor

Energy Select LLC - Kristi Felton

Contact

Energy Select LLC - Kristi Felton

~ •••

Estimated Cost of the project

\$24,400.00

Attach a full written scope of work

Signed - Call - Contract.pdf

Attach photographs of the site and structure

jpg2pdf (4)-min.pdf



Facade Elevations

screenshot-1697136067006.pdf



Sample of Proposed Materials

Call Material.pdf



Scaled Drawings

screenshot-1697136083233.pdf



Digital Renderings, when available

screenshot-1697136067006.pdf



Color Scheme/Paint Chips

v2 Call.pdf



Manufacturer Cut-Sheets or Product Specifications

Call Material.pdf 111 Provide one (1) complete original copy of all supplementary materials v2 Call.pdf Ш

The HPC meets the second Wednesday of each month and complete applications are due the first Wednesday of each month before 4:00 p.m. You (or a representative) are required to attend the meeting scheduled for your COA review.

Preservation Guidelines (Updated 1/1/16) can be found on the City of Cumberland website at www.cumberlandmd.gov.

Do not begin work until an approval is received on Permits from both The Historic Preservation Commission and the City of

A signed, approved, and stamped COA and MB or RB permit form is required for application to be considered complete. These will be sent to you upon approval of the department manager or designated representative.

Signing Method

Acknowledgement	~
By checking this box I acknowledge that I am electronically si	gning this document
Type your name Kristi Felton	
Today's Date 10/25/2023	

III FEES

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- 111	18 8

FEE	~	DI 🗸	QUANTITY	AMOUNT	TOTAL	
Certificate of Appropriate Review Fee	teness				30.00	
			Plan	Check Fees	30.00	
				Permit Fees	0.00	
				Total Fees	30.00	

PAYMENTS



DATE	TYPE	REFERENCE	NOTE	RECEIPT #	RECEIVED FROM	AMOUNT	
				Amount	Paid	0.00	
				Balance	Due	30.00	

Created On 08/07/2023 - 08:00 AM 11 CONSC 6 4447	District	User Name operations@energyselectllc.com	OTHER INFORMATION	Mobile Number	Primary Number 3014756727	CONTACT INFORMATION	Leonardtown	Company Mailing Address 22815 Washington St	COMPANY INFORMATION Company Name Energy Select LLC		Personal Mailing Address	PERSONAL INFORMATION Contact Name Kristi	ACCOUNT INFORMATION Contact Type Contractor
147				Home Number	Work Number		MD 20650					Felton	Association <
Created By Kristi Felton	Notes <	Title		Fax	Email operations@energyselectllc.com								<
			d pr										Portal Access

Por



YOUR ENERGY SELECT SOLAR CONTRACT						
Customer Name:	Derek Call	Date:	10/3/2023			
Job Address:	308 Washington Street, Cumberland, MD	Phone:	(435) 713-5395			
		E-mail	derek.rulon.call@gmail.com			
Consultant:	Rodney Oates					
Email:	rodney@energyselectllc.com	Phone #	301-453-7447			

Maryland Home Improvement License # 133726 Maryland Master Electrician #447

Maryland Contractor's License #18168299

This Agreement is made 10/03/2023, between Derek Call (Owner) and Energy Select LLC (Contractor).

The Owner owns the real property located at 308 Washington Street, Cumberland, MD (Property) and desires Contractor to install a Solar Photovoltaic Electric System (System) on the Property, and Contractor has the expertise and ability to install the System.

Now, therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, the parties agree as follows:

- 1. CONTRACT WORK. Contractor agrees to furnish all labor and materials and to perform the work necessary for the installation of the System at the Property ("Contract Work"). The Contract Work does not include roof repair or reinforcement, engineering, painting, electrical system upgrades, or transformer upgrades (Notably, the Main or Sub Panels and the Utility Equipment such as the Transformer), drywall repair, or repair service or work other than that set forth in the Scope of Work for Solar Electric Photovoltaic System.
 - A. Transformer upgrades: depending on the size of the current electrical transformer, the utility company might demand an upgrade. The appropriate size of transformer is critical to the powering of your solar system. It is the responsibility of the Owner to make this upgrade.
 - B. For Recessed Main Service Panels, an access panel will be installed. If drywall repair is required, Contractor is responsible for tape coat only, not final finishing or can recommend a drywall company.
- 2. PRICE. Owner agrees to pay Contractor the Contract Price for the performance of the Contract Work. If not Financed through our lenders who have a previously arranged payment schedule, the remainder of the Contract Price shall be paid as follows:
 - A. Ten percent (10%) is due upon signature of this Agreement.
 - B. Forty percent (40%) of the Contract Price shall be paid after the planning site visit, Solar Engineer final system design, Customer approval on equipment and solar placement, and material sourcing.
 - C. The following forty percent (40%) of the Contract Price shall be paid after all relevant permits are obtained, permission granted for Utility Interconnection, and the material is delivery to site.
 - D. The final ten percent (10%) of the Contract Price shall be paid upon a passed Electrical Inspection, Notification to Utility, and System being 100% operational.
- 3. ACCESS. Owner agrees to cooperate fully in the performance of the Contract Work and to provide unobstructed, safe and convenient access to the roof or other areas upon which the System is to be installed. Owner will be responsible for removing or covering any items inside or outside the structure that might be soiled or damaged by the performance of the Contract Work. Owner represents and warrants that there are no restrictions or covenants of which it should reasonably be aware that would prevent the installation of the System.
- 4. WARRANTY. Contractor warrants the installation of the System against defects in workmanship for a period of 10 (ten) years following the conclusion of the Onsite Installation. The warranty does not cover power outages, force majeure, damage normally covered by homeowners insurance such as damage caused by falling trees or limbs, or normal wear and tear of the roof, sub-structure, siding or electrical system. The warranty also does not cover problems caused by animals, by improper maintenance of the structure or the System or by any action of a party other than the Contractor. In the event that Owner discovers a defect in the System within the warranty period, Owner shall notify Contractor in writing providing a complete description of the nature of the defect. Contractor will correct any defect covered by the warranty and repair the System at no additional cost to Owner. If it is necessary to repair or replace any part of the System, Owner shall cooperate fully with Contractor to provide for a safe and efficient repair process. Contractor makes no warranty, express or implied, except as expressly set forth herein. Without limiting the generality of the foregoing, Contractor hereby disclaims any implied warranty of merchantability or fitness for a particular purpose.

- 5. SITE CONDITIONS. If there are latent or unanticipated conditions of the site that would affect the safety of the Contract Work, require reinforcement or repair of the roof or structure or materially increase the cost to Contractor of the Contract Work, the parties may agree upon an additional price for the Contract Work or Contractor may terminate this Agreement. Any needed drywall patching will include drywall, taping, and one coat of joint compound.
- 6. LIABILITY. Contractor shall be liable only for damage to the installation area of the System and shall not be liable for damage to old, deteriorated or improperly installed roofing, sub-roofing, roof coverings or supports, siding, exterior covering or paint, or any other non-visible installations. Contractor's aggregate liability shall be limited to amounts paid by Owner to Contractor under this Agreement. Owner shall bear the roof, walls and floors and otherwise make areas necessary for performance of the Contract Work accessible to Contractor. Contractor specifically disclaims and disavows any guaranteed output of the installed system, including any claims made orally or in writing by Contractor or its employees or agents. The parties waive all claims against each other for incidental and/or consequential damages arising out of or in any way relating to the Agreement. There are no third party beneficiaries to this Agreement.
- 7. PAST DUE PAYMENT POLICY. In the event that any payment due pursuant to Paragraph 2 of this Agreement is late, interest shall accrue at the rate of two percent (2%) per month or the maximum amount permitted by law, whichever is less, on any outstanding balance. In the event that Contractor engages an attorney for collection of a past due amount, Owner shall be responsible for all of Contractor's costs and reasonable attorneys fees. If any payment due pursuant to this Agreement remains unpaid more than one hundred and twenty (120) days after such payment was due, Owner grants to Contractor the right to enter the Property and remove the System or any part thereof; provided, that Contractor shall notify Owner in writing of its intent to remove the System and allow Owner thirty (30) days from the date of such notice to cure its default and pay the past due amount. There shall be a fifty dollar (\$50.00) charge for all returned checks.
- 8. ARBITRATION. Any controversy or claim arising out of or relating to this Agreement, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association under its Construction Industry Arbitration Rules. The parties recognize and agree that by agreeing to this provision, they are waiving any right they may have to a jury trial. Judgment on the arbitration award may be entered in any court having jurisdiction thereof.
- 9. BUYERS RIGHT TO CANCEL. If this agreement was solicited at or near your residence and you do not want the goods or services, you may cancel this agreement by mailing a notice to the seller. The notice must say that you do not want the goods or services and must be mailed before midnight of the third business day after you signed this contract. The notice must be mailed to: Energy Select LLC, P.O. Box 475, Leonardtown, MD, 20650. If you cancel within 3 days of signing, the seller may not keep any part of your cash down payment.

I hereby cancel this transaction	Date:

- 10. After your 3-day right to cancel expires This Agreement can only be terminated upon mutual agreement. You will be subject to a termination fee which increases as the project progresses and will be determined on a case-by-case basis. Project progress guidelines are 1) Pre-engineering and within 4-7 days after signature, \$1500, 2) Post engineering and past 7 days, \$3000, 3) Post engineering and material staging and before physical work commencement, \$5000, plus a 25% restocking fee on equipment (inverters, racking, batteries, PV modules). Customer will also be liable for any third party financing fees due as a result of cancellation.
- 11. Contractor agrees to provide the setup of solar system monitoring via wireless network or CAT5 through an existing high-speed wired internet connection. The Owner agrees to provide access to the internet router. The contractor is not responsible for firewall or other network setup and troubleshooting.
- 12. If due to pre-existing conditions, the Authority Having Jurisdiction (AHJ) requires additional work to meet code requirements, the Contractor is not responsible to meet those requirements. The Owner may contract with the Contractor via written change order to meet AHJ requirements.
- 13. If financed through a Contractor financing partner, all conditions of this contract are based on receiving lender approval within 60 days of contract signature.
- 14. Draw payments or signature(s) on loan documents may not be withheld under any circumstances after work is performed as defined under the System Description and Scope of Work.
- 15. Energy Select is not a tax professional and applications for tax related grants or rebates are the responsibility of the customer, namely the MD state tax credit (which is a first come, first served grant that has budgeted funds which may run out), the Federal Investment Tax Credit (ITC), and any local jurisdiction tax grants or benefits. Energy Select will handle all paperwork for the Solar Renewable Energy Credits (SRECS), System Monitoring, the Utility Interconnection Agreement, and the Maryland Clean Energy Rebate Program.

16. MISCELLANEOUS.

- A. This Agreement constitutes the complete and exclusive statement of the agreement between the parties. It supersedes all prior written and oral statements, including any prior representation, statement, condition, or warranty. Except as expressly provided otherwise herein, this Agreement may not be amended without the written consent of the parties.
- B. The headings herein are inserted as a matter of convenience only and do not define, limit or describe the scope of this Agreement or the intent of the provisions hereof.



Certificate of Appropriateness Application Presentation of Information By Ruth Davis-Rogers

COA#23-000063 Residential Home

Address: 308 Washington Street

Project Contact: Energy Select (applicant)

Project Summary:

This proposed project involves the installation of a solar Photovoltaic Electric system on the roof of this home as a means of energy for the home.

Property Description:

This property is located in the Washington Street Historic District. This historic district consists of a six-block stretch of this prominently sited thoroughfare that includes much of the City of Cumberland's most significant civic, religious, and residential architecture. This wide street, with brick sidewalks shaded by old-growth trees, is architecturally and historically significant. These structures represent the heyday of Cumberland, when the city was the second largest in the state (next to Baltimore) and was recognized as an important center of industry and transportation.

This house, located at 308 Washington Street, retains many of its original exterior features and commands attention. The Secretary of the Interior's Standards for the Treatment of Historic Properties address four types of treatments to properties undergoing renovations: preservation, rehabilitation, restoration, and reconstruction. As stated in the regulations (36 CFR Part 68), "one set of standards ...will apply to a property undergoing treatment, depending upon the property's significance, existing physical condition, the extent of documentation available, and interpretive goals, when applicable. The Standards will be applied taking into consideration the economic and technical feasibility of each project." The purpose of these standards is to provide guidance, not case-specific advice, to historic building owners (and those involved) before beginning work. The renovation of this structure would be rehabilitation. Rehabilitation is defined as the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, and/or architectural values.

The rapidly growing trend toward retrofitting homes to be more energy efficient has brought an increase in applications for the installation of solar energy systems on buildings within locally designated historic districts. When planning the installation of solar panels the overall objective is to preserve character-defining features and historic fabric while accommodating the need for solar access to the greatest extent possible. All solar panel

installations on historic homes, or homes located in historic districts, must be considered on a case-by-case basis recognizing that the best option will depend on the characteristics of the property under consideration. All solar panel installations should conform to the Secretary of the Interior's Standards for Rehabilitation. Generally speaking, solar panels installed on a historic property in a location that cannot be seen from the ground will generally meet the Secretary of the Interior's Standards for Rehabilitation.

Applicable Standards to consider are:

Standard Two: The historic char acter of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

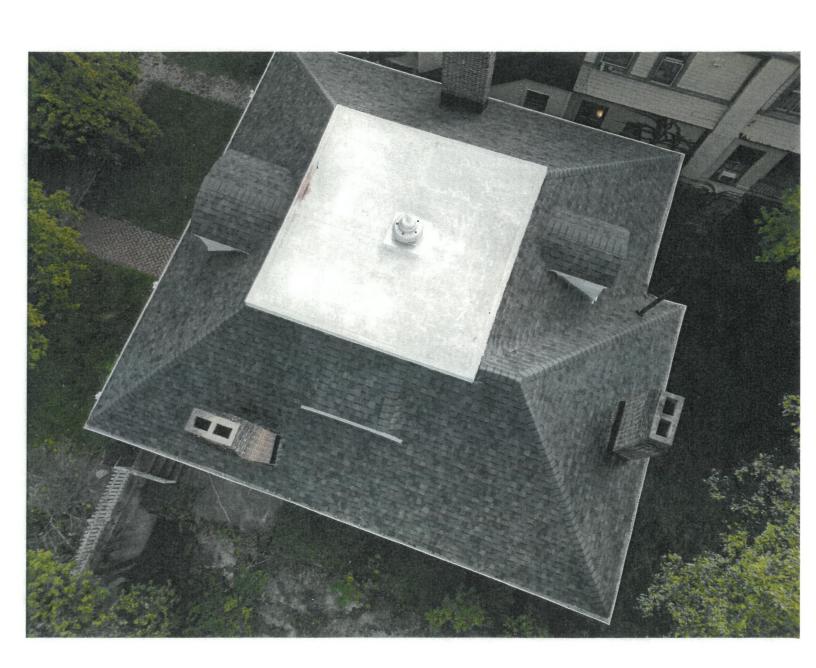
Standard Nine: New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

308 Washington Street













Site Assessment

Customer:

Derek Call

Address:

308 Washington Street

Cumberland, MD

System size:

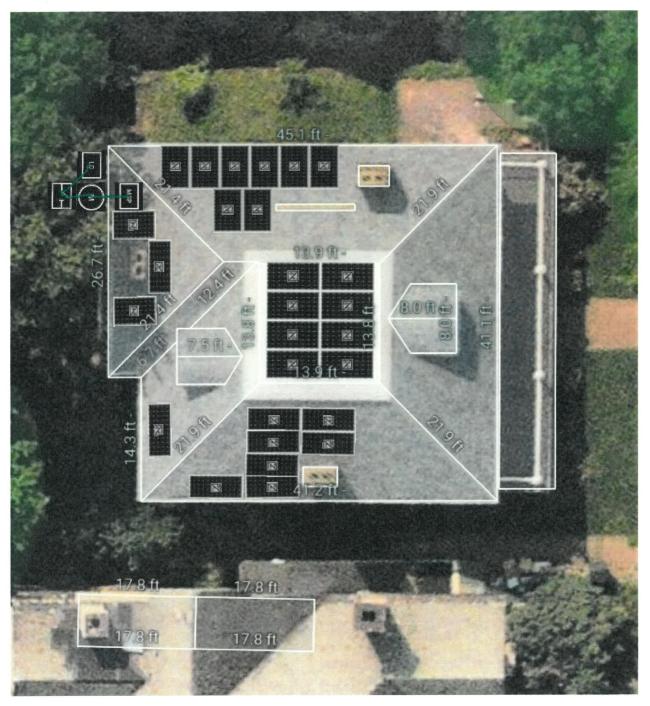
10.80 kW Yr 1 Production: 8,786 kWh

Designer:

Zach Schoonover

Date:

November 7th, 2023

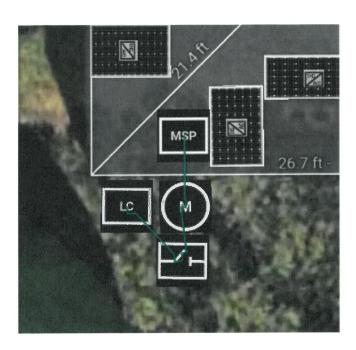


Site Assessment

Customer: Derek Call

Address:

308 Washington Street Cumberland, MD



Component List

Manufacturer	Model	Quantity
Silfab Solar	SIL-400 HC+	27
Enphase Energy Inc.	IQ8PLUS-72-2-US	27
Enphase Energy Inc.	X-IQ-AM1-240-4	1
(none)	Meter	1
Square D	Non-Fused 100A AC D/C	1

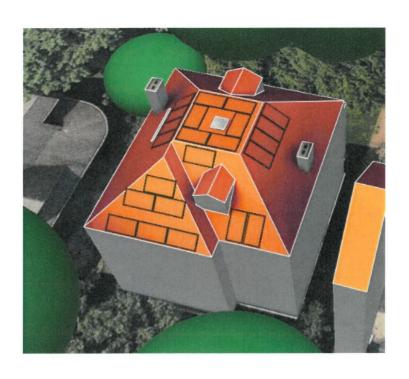


Notes:





ENERGY SELECT SOLAR + SOLUTIONS



Derek Call

308 Washington Street, Cumberland, MD

Your New Solar System:

System Size: 9.2 kW

Year One Production: 9,462 kWh

Number of Solar Panels: 23

Electrical Usage Covered by Solar: 52%



RELIABLE ENERGY. DIRECT FROM THE SOURCE.

Designed to outperform. Dependable, durable, high-performance solar panels engineered for North American homeowners.









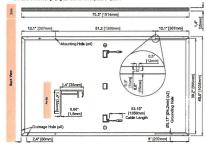








MECHANICAL PROPERTIES /	COMPONENTS	METRIC	D D	PERIAL	PERIAL				
Module weight		21.36g±0.7kg	21.3kg±0.7kg 47th			s 20.4Ds			
Dimensions (H x L x D)		1914 mm x 1036 mm x 35 mm	75	3 in x 40.8 in x 1.1	7 in				
Maximum surface load (wind/snow	,	5400 Pa rear load / 5400 Pa fro	nt load 11	2.8 lb/ft ² rear load	/ 112.8 lb/ft	front load			
Hall Impact resistance		a 25 mm at 83 km/h		in at 51.6 mph					
Cells		132 Half cells = Si mono PERC 9 busber = 83 x 166 mm		2 Half cells- Si mo usbar - 3 26 x 6.5					
Class		3.2 mm high transmittance, be DSM antireflective coating		26 in high transm Mantireflective o		pered,			
Cables and connectors (refer to ins	tallation manual)	1350 mm, a 5.7 mm, MC4 from	Staubil 53	in, a 0.22 in (12A)	VG), MC4 fro	m Staubii			
Backsheet		High durability, superior hydrolysis and UV resistance, multi-layer dielectric film. fluorine-free PV backsheet							
Frame		Anodized Aluminum (Black)							
Bypass diodes		3 diodes-305Q645T (45V max DC blocking voltage, 30A max forward rectified current)							
Junction Bax		UL 3730 Certified, EC 62750 Certified, IP68 rated							
TEMPERATURE RATINGS			WARRANTIES						
Temperature Coefficient Isc	+0.064 %/PC		Module product workmanship warranty 25 years**						
Temperature Coefficient Voc	-0.28 %/°C		Linear power performance guarantee			30 years			
Temperature Coefficient Pmax	-0.36 %/°C				≥ 17.1%	end Lst yr			
NOCT (£ 2°C)	45 °C					end 12th yr end 25th yr			
Operating temperature	-40/+85 °C					end 10th yr			
CERTIFICATIONS				SHIPPING	SPECS				
2:2017 Ed 1 ***, C EC 61215-1:2016 61730-2:2016 Ed:		CSA C22.2861730-2:2019 Ed 2***, CS	Ed.1"", UL 61215-2:2017 Ed.1"", UL 61730-1:2017 Ed.1"", UL 61730- SA C22.2461730-1:2035 Ed.2"", CSA C22.2461730-2:2039 Ed.2"", Ed.1"", EC.61250-2:2016 Ed."", EC.61730-1:2016 Ed.2"", EC. 2"", EC.61701:2020 (Salt Mist Corrosion), EC.62716:2013 (Americais			26 or 26 (California)			
		6 Ed.1***, R.C 61215-2:2016 Ed.1***, I 2***, R.C 61701:2020 (Salt Mist Corr lire Rating: Type 2, CEC Listing***				32 or 31 (California)			
	COLUMNIY, OL P	ar month type at the theory							



€ENPHASE.



IQ8 Series Microinverters

Our nevest IOB Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power convenion capability to convert DC power to AC power (licently). The brain of the semiconductor-based microinverter to our proprietary application-specific integrated circuit (DSIC) which enables the microinverter to pear the night-state of or-flight modes. The only is built in additional Soft to changing loads and grid events, allevisting constraints on bettery sitting for home energy systems.





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Easy to install

- Easy to install

 Lightweight and compact with plug-n-play connectors

 Power Line Communication (PLC) between components

 Faster installation with simple two-wire cabling

High productivity and reliability • Produce power even when the grid is down

- More than one million cumulative hours of testing
- Class II double-insulated enclosure
 Optimized for the latest high-powered PV modules

- Microgrid-forming

 Complies with the latest advanced grid support

 Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
 Meets CA Rule 21 (UL 1741–SA) requirements

IQ8 Series Microinverters

INPUT DATA (DE)		CB-60-2-03	19EFL85-72-2-05	108H-72-2-93	1044-72-2-04	1098-240-72-2-05	\$58H-208-23-2-		
Commonly used module pairings ^a	w :	235-350	235-440	260-460	295-500	320 - 540+	295-500+		
Module compatibility	60-0	ell/120 half-cell		60-ceil/1	20 half-oell and 72-cell	/144 half-cell			
MPPT voltage range	v	27-37	29-45	33-45	36-45	38-45	38-45		
Operating range	v	25-48			25-58				
Min/max start voltage	v	30/48			30/58				
Max input DC voltage	ν	50			60				
Max DC current ^a [module lsc]	A				15				
Overvoltage class DC port									
DC port backfeed current	mA.				0				
PV array configuration		1x1 Ungrounded a	rray; No additional D	C side protection re	quired. AC side protect	ion requires max 20A p	er branch circuit		
BUTPUT DATA (AC)		01-60-2-65	#28FLUS-72-2-05	10 KM-72-2-05	1014-72-2-85	454H-240-72-2-95	1020-201-22-2		
Peak output power	NA	245	300	330	366	384	366		
Max continuous output power	VA	240	290	325	349	380	360		
Nominal (L-L.) voltage/range*	٧			240 / 211 - 264			208 / 183 - 25		
Max continuous output current	A	1.0	1.21	1.36	1.45	1.58	1.73		
Nominal frequency	Hz				60				
Extended frequency range	Hz	50 - 68							
Max units per 20 A (L-L) branch circuit*		16	13	n	n	10	9		
Total harmonic distortion					<5%				
Overvoltage olase AC port		B B							
AC port backfeed current	mA.	30							
Power factor setting		10							
Grid-tied power factor (adjustable)				0.85 leadin	g - 0.85 lagging				
Peak efficiency	*	97.5	97.6	97.6	97.6	97.6	97.4		
CEC weighted efficiency	*	97	97	97	97.5	97	97		
Night-time power consumption	Wins				80				
HECHANICAL BATA	OIL S	Name of Street	-1 4 - 3	SUR BUILD	AN INCHES	14 E 18 18	1 14		
Ambient temperature range				-40°C to +60°	C (~40°F to +140°F)				
Relative humidity range		4% to 100% (condensing)							
DC Connector type		MC4							
Dimensions (HxWxD)		212 mm (8.3°) x 175 mm (6.9°) x 30.2 mm (1.2°)							
Weight		1.08 kg (2.38 lbs)							
Cooling				Natural con	vection ~ no fans				
Approved for wet locations					Yes				
Acoustic noise at 1 m				<	50 dBA				
Pollution degree					PD3				
Enclosure			Class II do	uble-Insulated, corr	osion resistant polyme	rio enolosure			
Environ, category / UV exposure rating		NEMA Type 6 / outdoor							
COMPLIANCE	Name of	THE PERSON NAMED IN	W115 THE R. P. LEWIS CO., LANSING	THE REAL PROPERTY.	STATE OF THE PARTY	7713 1	9119		
April 1997	CA	Rule 21 (UL 1741-5	IA), UL 62109-1, UL17	41/EEE1547. FCC Pa	ert to Class B, ICES-00	03 Class B, CAN/CSA-	C22.2 NO. 107.1-0		
Certifications	This	This product is IL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C221-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufactures? a statustions.							

IQ8SE-DS-0001-01-EN-U5-2021-10-19

Data Sheet Enphase Networking

IQ Combiner 4/4C



The IQ Combiner 4/4C with IQ Gateway and integrated LTE-M1 cell modern (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure. It streamlines IQ Microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

- Smart

 Includes IQ Geteway for communication and control
 Includes IQ Geteway for communication and control
 Includes IAColfa Commet callular modern
 (CBLLMODEAH-0-GP-03), included only with
 IQ Combiner 40-10
 IC C

Simple

- Mounts on single stud with centared brackets
 Supports bottom, back and side conduit entry
 Allows up to four 2-pole branch circuits for 240VAC
 plug-In breaker (not include)
 80A total PV or storage branch circuits

Reliable

- Durable NRT1-certified NEMA type 3R enclosure
 Five-year limited warranty
 Two years about minimumement program coverage
 included for both the (20 cm/shern SKU*s
 U.I. Itelad

 2. VLI (Hard

 2. VLI (HAMT-240-4 and X2-RQ-AMT-240-4C comply with
 IEEE 1647-2018 (UL 1741-58), 3º Ed.)



To learn more about Enphase efferings, visit sephase.com ig-0-4-40-05-0103-EN-US-12-29-2022



IQ Combiner 4/4C

MODEL NUMBER					
IQ Combiner 4	iQ Combiner 4 with IQ Galaxiesy printed clics/k board for Integrated revenue grade PV production metering (AMSI C12.20 x 0.9%)				
X-IQ-AM1-240-4	and consumption marketing (± 2.5%). Includes a alter solar shield to match the IQ Statery and IQ System Controller 2 and to deflect heat.				
X2-(Q-AM1-240-4 (/EEE 1547:2018)					
IQ Combiner 4C X-IQ-AM1-246-4G	IQ Constriner 4G with IQ Getaway printed circuit board for integrated revenue grade PV production mereing (ANS) C12.20 ± 0.5% and consumption monitoring (± 2.5%), includes above Connect callular modern (CELL&CDEM-M1-06 SP-06), a plug-and-play				
X2- Q-AM1-240-4C (LEEE 1547.2018)	Industrial-grade cell modern for systems up to 60 microinverters. (Available in the US, Canada, Medico, Puerto Rico, and the. US Virgin Inlands, where there is adequate cellular service in the installation area.) includes a silver solar shield to match the 10 Battery and 10 System condition and to deflect heat.				
ACCESSORIES AND REPLACEMENT PARTS					
Supported microirwerters	IQ6, IQ7, and IQ8. (Do not mix IQ6/7 Milcroinverters with IQ6)				
Communications Kit	and select and address that store adds a material sea or material				
COMMS-CELL MODEM-M1-06 CELL MODEM-M1-06-SP-05 CFL MODEM-M1-06-AT-05	- Includes COMMAS KIT-01 and CELLMODEAH-M1-06-SP-05 with 5-year Sprint data plan - 40 based XES-M1 callular modern with 5-year Sprint data plan - 40 based XES-M1 callular modern with 5-year ATMT data plan				
Circuit Breakers ERR: 10A-2-240V	Supports Esten 58219, 58215, 58220, 58230, 58240, 58250, and 58250 circuit breakers. Gircuit breaker, 2 pole, 10A, Eston 58210				
BRX-15A-2-240V BRX-20A-2P-240V	Circuit breaker, 2 pole, 18A, Esten 88215 Circuit breaker, 2 pole, 29A, Eston 88220				
BRX 15A 2P-240V-8 BRX 20A 2P 240V-B	Circuit breaker, 2 pole, 15A, Eston BRZ15B with held down kit support Circuit breaker, 2 pole, 20A, Eston BRZ20B with hold down kit support				
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C				
XA-PLUG-120-2	Accessory receptacle for Power Line Certier in IQ Comisiner 4/40 (required for EPLC-01)				
X-IQ-NA-HD-125A	Hald-down kit for Eaton circuit breaker with screens				
Consumption monitoring CT (CT-200-SPLIT/CT-208-CLAMP)	A pair of 200A split core current transforrours				
ELECTRICAL SPECIFICATIONS					
Rating	Continuous duty				
System voltage	120/240VAC, 60 Hz				
Eaton SR series busber rating	125A				
Mex. continuous current rating	65A				
Max, continuous current rating (laput from Pilletonige)	644				
Max, fuse/circuit rating (output)	90A				
Branch circuits (solar and/or storage)	Up to four 2-pole Estat: BR series Distributed Generation (DG) breakers only (not included)				
Mex. total branch circuit breaker rating (input)	8DA of distributed generation/9SA with IQ Getoway breaker included				
IQ Gateway breaker	19A or 15A rating GE/Stemens/Eston included				
Production matering CT	200A solid core pre Installed and wired to IQ Gateway				
MECHANICAL DATA					
Dicerarions (Waltist)	\$7.5 cm x 49.5 cm x 16.5 cm (14.75 in x 19.5 in x 6.63 in). Height is 53.5 cm (21.06 in) with mounting brackets.				
Weight	7.5 kg (16.5 lbs)				
Ambient temperature range	-40°C to +46°C (-40°F to 118°F)				
Cooling	Natural convection, plus heat shield				
Enclosurs environments/ rating	Outdoor, NRTL-cartfilled, NEMA type SR, polycarbonete construction				
Wire sizes	- 200 A to SIGA breaker reputs: 14 to 4. ANPE copper conductors - 600 A breaker breach leput: 4 to 170 AVRE copper conductors - 460 A breaker breach conductors - 460 A breaker breaker breach conductors - 460 A breaker				
Altiode	Up to 3,088 meters (9,842 fect)				
INTERNET CONNECTION OPTIONS					
Integrated WI FI	IESE 802.11b/g/n				
Calfular	CELLMODEM-M1-D6-EP-D5, CELI MODEM-M1-D6-AT-D5 (4G based LTE-M1-cellular motion). Note that an Mobile Co- gallular modem is required for all Exphase Energy System installations.				
Ethernet	Optional, FFE 802.3, Cat6F (or Cat6) UTP Ribernet cable (not included)				
COMPLIANCE					
Cemplance, IQ Combiner	CA Rule 21 (N. 1741-5A) 1876 (SEC7016 - W. 1741-6B, 8"6d. (X2-19, AAR1-260 4 and X2-19, AAR1-240-4C) 1876 (SEC7016 - W. 1741-6B, 8"6d. (X2-19, AAR1-260 5 and X2-19, AAR1-240-4C) 1876 (ANYOLA (X2-2A) (X-101), 1766 at 7 OPR), Pearl 16, C69a (B, OCES 000) 1706 (ANYOLA (X2-2A) (X-101), 1766 (X-101),				
Compliance, IQ Sateway	UL 60601-1/CANC8A 22.2 No. 61010-1				
© 2022 Enghave Energy. All rights reserved. Enghase, the Enghase Energy, Inc. Data subject to change.	Enphase logo, IQ Combiner 4/4C, and other names are trademarks of IQ-C-4-4C-DS-D1D3-EN-US-12-29-2022				

Solar is Not Always Sunny

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.





Compatible with Flat & Pitched Roofs





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

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



XR10



XR100



XR1000

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.

Le	ad	Rail Span					
Snow (PSF)	Wind (MPH)	41	E 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						



UFO Family of Components

Universal Fastening Object (UFO)
The UFO securely bonds solar modules to XR
Ralis. It comes assembled and lubricated, and can fit a wide range of module heights.

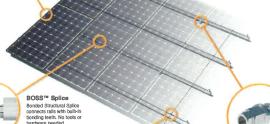
Simplified Grounding for Every Application

The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family—Flush Mount, Tilt Mount and Ground Mount—are fully listed to the UL 2703 standard.

UFO hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.



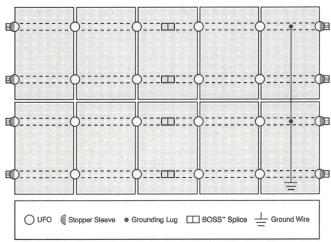
Stopper Sleeve
The Stopper Sleeve snaps
onto the UFO, converting it into
a bonded end clamp.



Grounding Lug
A single Grounding Lug
A single Grounding Lug
Or PV modules to the
ornering conductor

ifing Lug
Grounding Lug
an entire row
The bonding bott attaches
and bonds the 1-foot to the
and bonds the 1-foot to the
same socket as the rest of the
system.

System Diagram



Approved Enphase microinverters can provide equipment grounding of IronRidge systems, eliminating the need for grounding lugs and field installed equipment ground conductors (EGC). A minimum of two microinverters mounted to the same rail and connected to the same Engage cable is required. Refer to installation manuals for additional details.

UL Certification

The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.



Cross-System Compatibility					
Feature	Flush Mount	Tilt Mount	Ground Mount		
XR Rails	~	~	XR100 & XR1000		
UFO/Stopper	~	~	~		
BOSS™ Splice	~	~	N/A		
Grounding Lugs	1 per Row	1 per Row	1 per Array		
Microinverters & Power Optimizers	Compatible with most MLPE manufacturers. Refer to system installation manual.				
Fire Rating	Class A	Class A	N/A		
Modules	Tested or Evaluated with over 400 Framed Modules Refer to installation manuals for a detailed list.				



QuickMount® HUG

The Respect Your Roof Deserves

When integrating with a home, solar attachments must be dependable for the lifetime of the rooftop. Due to recent innovations, many asphalt shingles have bonded courses. A mount that protects without the need to pry shingles can really speed things up.

Halo UltraGrip" (HUG") is here to respect the roof, Its Halo is a cash-aluminum barrier that encases the UltraGrip, our industrial-grade, foam-end-mastic seal. This allows HUG to accelerate the installation process and provide the ultraost in waterproofing protection. Give your roof a HUG."













Adaptive, Rafter-Friendly Installation







Trusted Strength & Less Hassle



Structural capacities of HUG" were reviewed in many load directions, with racking rail running cross-slope or up-slope in relation to roof pitch.

For further details, see the HUG certification letters for attaching to rafters and decking.

IronRidge designed the HUG, in combination with the RD Structural Screw to streamline installs, which means the following:

- No prying shingles
 No roof nall interference
 No pilot holes necessary
 No sealant (in most cases)
 No butyl shims needed

The rafter-mounted HUG has been tested and rated to support 1004 (lbs) of uplift and 368 (lbs) of lateral load.

Design

Parts are designed and certified for compliance with the International Building Code & ASCE/SEI-7.

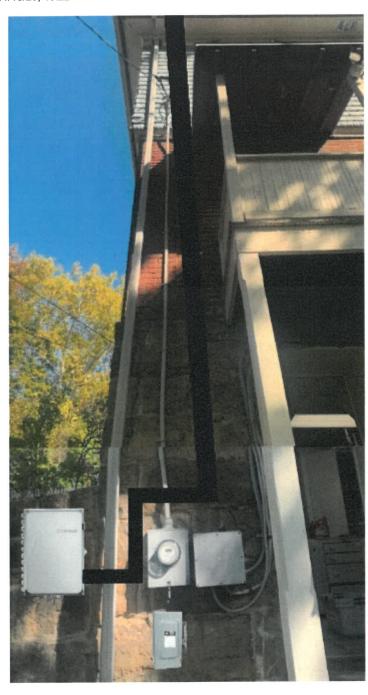
Ratings

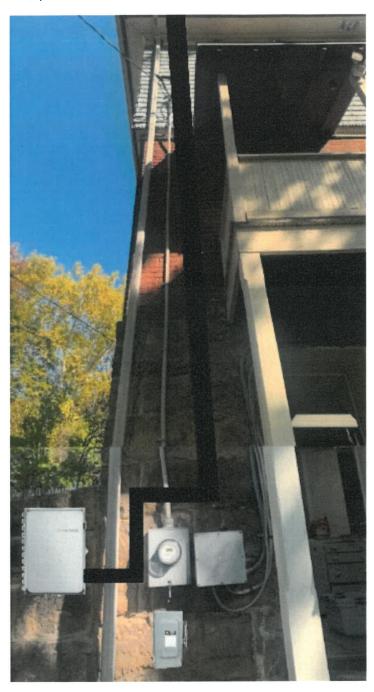
HUG passed both the UL 441 Section 27 "Rain Test" and TAS 100(A)-95 "Wind Driven Rain Test" by Intertek.

System

Systems conform to UL 2703 mechanical and bonding requirements. See Flush Mount Manual for more info.













Robyn Roberts <robyn.roberts@cumberlandmd.gov>

Re: Certificate of Appropriateness Permit

1 message

Wed, Nov 8, 2023 at 8:18 AM

Good morning, Ruth and Robyn:)

I've attached several after pictures of our completed installations. Of course we would not put any panels on the front of the house, but this should give you a better idea of how the panels look.







On Tue, Nov 7, 2023 at 15:11 Ruth Davis-Rogers <ruth.davis-rogers@cumberlandmd.gov> wrote: Brooke.

If you could submit after pictures, of other similar installations that have been completed, it would help the HPC visualize how the solar panels will look.

Thanks!

~Ruth

On Tue, Nov 7, 2023 at 2:50 PM Brooke Barnett brooke@energyselectlic.com wrote:

Hi Ruth and Robin,

Our engineer is working on the drawings and my hope is that we can submit everything for the COA permit by Wednesday for review at the next HPC meeting. I'm not sure he will be able to complete the design before then, but he's working on it. In the interim, I am sending over what we have for your review. Can you please let me know if you see anything that needs attention before submitting with the engineering plans?

Thank you!!

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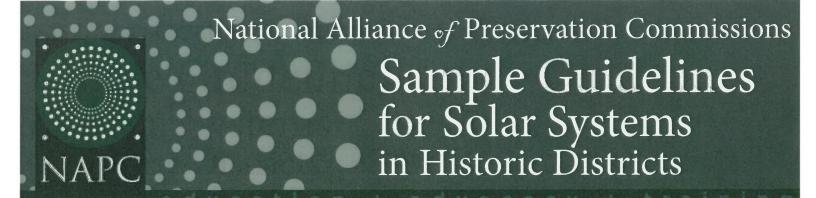
Brooke Barnett

Managing Director



119 Baltimore Street, Cumberland, MD 21502 EnergySelectLLC.com | Tel: 301-747-1294

On Mon, Nov 6, 2023 at 12:41 PM Ruth Davis-Rogers ruth.davis-rogers@cumberlandmd.gov wrote: Brooke.



The rapidly growing trend toward retrofitting homes to be more energy efficient has brought an increase in the number of applications for installing solar energy systems on buildings within locally designated historic districts. The increase in solar systems applications in recent years has prompted numerous local preservation commissions to hastily develop guidelines for them with varying degrees of success.

The following Sample Guidelines for Solar Systems for Locally Designated Historic Properties were developed in 2009 by Kimberly Kooles, NAPC support staff and revised by Caty Rushing in 2011. They are intended to serve as a starting point for local preservation commissions developing their own guidelines for solar systems.





Types of Systems:

Photovoltaic

A photovoltaic system (or PV system) is a system which uses one or more solar panels to convert sunlight into electricity. It consists of multiple components, including the photovoltaic modules, mechanical and electrical connections and mountings and means of regulating and/or modifying the electrical output.



Solar shingles, also called photovoltaic shingles, are solar cells designed to look like conventional asphalt shingles. There are several varieties of solar shingles, including shingle-sized solid panels that take the place of a number of conventional shingles in a strip, semi-rigid designs containing several silicon solar cells that are sized more like conventional shingles, and newer systems using various thin film solar cell technologies that match conventional shingles both in size and flexibility

Freestanding

Freestanding PV panels or freestanding arrays allow the benefits of renewable solar power without disrupting the roofline or altering the house. They are placed away from the residence and connected through an undergroud wiring. When a roof may be blocked by trees or not recieving direct sunlight, the mobillity of a freestanding panel allows the ability to move into optimal sunlight areas that may change seasonally.







Sample Guidelines for Solar Systems for Locally Designated Historic Projects

When planning the installation of solar panels the overall objective is to preserve character-defining features and historic fabric while accommodating the need for solar access to the greatest extent possible. All solar panel installations must be considered on a case by case basis recognizing that the best option will depend on the characteristics of the property under consideration. Some guidelines apply to virtually all installation options and are repeated in each section.

All solar panel installations should conform to the Secretary of the Interior's Standards for Rehabilitation. Applicable Standards are:

Standard Two: The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

Standard Nine: New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

1 Primary Elevations

For most properties, locating solar panels on the primary facade is the least desirable option because it will have the greatest adverse effect on the property's character defining features. All other options should be thoroughly explored.

- Utilization of low-profile solar panels is recommended. Solar shingles laminates, glazing, or similar materials should not replace original or historic materials. Use of solar systems in windows or on walls, siding, and shutters should be avoided.
- Panels should be installed flat and not alter the slope of the roof. Installation of panels must be reversible and not damage to the historic integrity of the resource and district.



These solar panels low profile and location make them unobtrusive even though they are visible from the public right of way. Photo by Paul Trudeau

- Solar panels should be positioned behind existing architectural features such as parapets, dormers, and chimneys to limit their visibility.
- Use solar panels and mounting systems that are compatible in color to established roof materials. Mechanical equipment associated with the photovoltaic system should be treated to be as unobtrusive as possible.

2 Secondary Elevations

- Solar panels should be installed on rear slopes or other locations not easily visible from the public right-of-way. Panels should be installed flat and not alter the slope of the roof. Installation of panels must be reversible and not damage the historic integrity of the resource and district.
- Flat roof structures should have solar panels set back from the roof edge to minimize visibility. Pitch and elevation should be adjusted to reduce visibility from public right-of-way.
- Solar panels should be positioned behind existing architectural features such as parapets, dormers, and chimneys to limit their visibility.

2 Secondary Elevations (Continued)

- Use solar panels and mounting systems that are compatible in color to established roof materials. Mechanical equipment associated with the solar panel system should be painted or treated to be as unobtrusive as possible
- Use of solar systems in non-historic windows or on walls, siding, or shutters should be installed as to limit visibility from the public right of way.

3 Historic Accessory Structures



Solar panels placed on an accessory structure not visible from the public right of way should still follow the slope of the roof and have a low profile. Photo courtesy of Dan Corson

- Solar panels should be installed on rear slopes or other locations not highly visible from the public right-of-way. Panels should be installed flat and not alter the slope of the roof. Installation of panels must be reversible and not damage the historic integrity of the resource and district.
- Flat roof structures should have solar panel installations set back from the roof edge to minimize visibility. Pitch and elevation should be adjusted to reduce visibility from public right-of-way.
- Solar panel installations should be positioned behind existing architectural features such as parapets, dormers, and chimneys to limit their visibility.
- Use solar panels and mounting systems that are compatible in color to the property's roof
 materials. Mechanical equipment associated with the photovoltaic system should be as unobtrusive as possible.
- Use of solar systems in non-historic windows or on walls, siding and shutters should be installed as to limit visibility from the public right of way.

4 Freestanding or Detached

- Freestanding or detached on-site solar panels should be installed in locations that minimize visibility from the public right of way.
 These systems should be screened from the public right of way with materials elsewhere in the district such as fencing or vegetation of suitable scale for the district and setting.
- Placement and design should not detract from the historic character of the site or destroy historic landscape materials.



Freestanding solar panels should be installed in locations that minimize visibility from the public right of way.

Consideration to the visibility of solar panels from neighboring properties should be taken, without infringing upon the required solar access.

5 New Construction On-Site

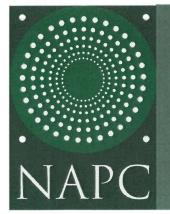
- Solar panels should be integrated into the initial design of new construction or infill projects, when possible, to assure cohesion of design within a historic context.
- Solar panels should be installed on rear slopes or other locations not highly visible from the public right of way whenever possible. Panels should be installed flat and not alter the slope of the roof.
- Flat roof structures should have solar panels set back from the roof edge to minimize visibility. Pitch and elevation should be adjusted to reduce visibility from the public right-of-way.
- Use solar panels and mounting systems that are compatible in color to established roof materials. Mechanical equipment associated with the solar panel system should be treated to be as unobtrusive as possible.
- Use of solar systems in windows or on walls, siding, or shutters should be installed with limited visibility from the public right-of-way.

Not Recommended for Any Reason

- Removal of historic roofing materials during the installation of solar systems.
- Removing or otherwise altering historic roof configuration dormers, chimneys, or other features to add solar systems.
- Any other installation procedure that will cause irreversible changes to historic features or materials.

When considering retrofitting measures, historic building owners should keep in mind that there are no permanent solutions. One can only meet the standards being applied today with today's materials and techniques. In the future, it is likely that the standards and the technologies will change and a whole new retrofitting plan may be necessary. Thus, owners of historic buildings should limit retrofitting measures to those that achieve reasonable energy savings, at reasonable costs, with the least intrusion or impact on the character of the building.

(National Park Service. Preservation Brief 3: Conserving Energy in Historic Buildings. Available from http://www.nps.gov/history/hps/TPS/briefs/brief03.htm#Preservation%20Retrofitting. Accessed on August 10, 2009.)



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Technical Preservation Services

Solar Panels on Historic Properties

Installing solar panels and meeting the Secretary of the Interior's Standards for Rehabilitation

Solar panels installed on a historic property in a location that cannot be seen from the ground will generally meet the Secretary of the Interior's Standards for Rehabilitation.

Conversely, an installation that negatively impacts the historic character of a property will not meet the Standards. But what about the grey area between out—of—sight and obviously obtrusive installations?



See examples of solar panels on historic properties

- Solar panels on a new addition (https://www.nps.gov/articles/000/solar-panels-on-historic-properties-new-addition.htm)
- Solar panels on a flat roof (https://www.nps.gov/articles/000/solar-panels-on-historic-properties-flat-roof.htm)
- Pole-mounted array of solar panels (https://www.nps.gov/articles/000/solar-panels-on-historic-properties-pole-mounted-array.htm)
- Solar panel on a low-slope gable (https://www.nps.gov/articles/000/solar-panels-on-historic-properties-low-slope-gable.htm)
- Solar panels on a cross gable (https://www.nps.gov/articles/000/solar-panels-on-historic-properties-cross-gable.htm)
- Solar panels on a rear porch roof (https://www.nps.gov/articles/000/solar-panels-on-historic-properties-rear-porch-roof.htm)
- Avoiding the impact of solar panels on a cultural landscape (https://www.nps.gov/articles/000/solar-panels-on-historic-properties-avoiding-impact-cultural-landscape.htm)

Although every project is different and must be evaluated on its own merit, the National Park Service has developed this information on how to apply the Standards to the installation of solar panels.

This "invisible" installation of solar panels on a historic industrial building—hidden behind a low parapet—meets the Standards for Rehabilitation.







This installation popping up from the roof negatively impacts the character of this mid-twentieth century house and does not meet the Standards for Rehabilitation.

Last updated: September 8, 2022

Yes			
○ No			

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SUBJECTS

Historic Preservation (https://www.nps.gov/subjects/historicpreservation) **ORGANIZATIONS**

Cultural Resources Partnerships and Science Directorate (https://www.nps.gov/orgs/1345)