

Menu Save Reset Cancel Help

Record Detail * (This section is required.)

Permit Type Building/Residential/Misc/Solar Panel Permit Number B26001174 Opened Date 04/15/2026
Description of Work SFD/ INSTALL (60) GROUND MOUNTED SOLAR PANELS ON THE REAR OF THE PROPERTY. INSTALL (4) ENPHASE SOLAR BATTERIES ON THE REAR EXTERIOR OF SFD.**SUBJECT TO FIELD INSPECTION**

[check spelling](#)

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner
Street # 638 Street Name RIVER Street Type RD
Unit Type --Select-- Unit # X Coordinate -76.94824 Y Coordinate 39.35299
City SYKESVILLE State MD Zip Code 21784 Primary Yes

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner
GIS ID * 830783 Parcel 103 Parcel Area 3 Land Value 291200 Improved Value 986900 Exemption Value 695700 Plan Area RURAL
Legal Description IMPSLOT 8 3.000 A[]638 RIVER RD[]PROPERTY OF TOM SHAW JR

[check spelling](#)

Block 8 Lot 8 Census Tract 603000 Council Dist 5 Inspection Dist Supervisor Dist Map # DAP Zone
Plan Area State Tax Id 1403315738 Subdivision Name
Section Area Tax Map 4
Grid 4-23 Zoning District RR-DEO ADC Map 4693-J4
SDP No. Final Plan No. WP File No.
Record Plat No. 9180 WS Contract No. FDP No. Primary Yes
Owner Occupied Year Built 1995 Historic District Yes No
Historic District Registry No. Stat Area 3-01 Flood Plain Yes No
Building No

Owner * (This section is required.)

Search Reset Clear
Name * CONNIE
Address Line 1 638 RIVER RD
Address Line 2
Address Line 3
Mail City SYKESVILLE
Mail State MD
Mail Zip Code 21784
Phone 443-904-1530
Primary Yes
E-mail

Approved
MNC 6/11/26

Online BP.
9/8 4/16/26

Cell Number Fax Number

Professionals * (This section is required.)

License # *	Business Name		
08050030991	FUSION SOLAR SERVICES LLC		
License Type *	First Name	Middle Name	Last Name
MHIC Co	▼ JOSEPH		RICE
Primary	Address Line 1		
Yes	▼ 3600 COMMERCE DRIVE SUITE 601		
	Address Line 2		
	City	State	ZIP Code
	HALETHORPE	MD	21227-0000
	Phone 1	Phone 2	Fax
	4439550779		
	E-mail		
	JRICE@FUSIONSS.NET		

Applicant * (This section is required.)

Search As Owner As Lic. Prof As Contact

Type *	First Name	MI	Last Name
Applicant	▼ JOSEPH		RICE
Relationship	Full Name		
Applicant	▼ JOSEPH RICE		
Primary	Organization Name		
Yes	FUSION SOLAR SERVICES LLC		
	Street Address		
	3600 COMMERCE DRIVE SUITE 601		
	Address Line 2		
	City	State	Zip Code
	HALETHORPE	MD	21227 000
	Phone	Cell	Fax
	4439550779		
	E-mail *		
	permits@FUSIONSS.NET		

Addtl Info

Est Construction Cost *	Housing Units *	Number of Buildings *	Public Owned
113000	0	0	No ▼
Construction Type			
434 - Additions, Alterations and Conversions - Residential	▼		

RESIDENTIAL SOLAR PANEL INFO

SOLAR PANEL INFORMATION

Capital Project-No Fee	Type of Installation *	Number of Panels *	Water Supply *	Sewage Disposal *	Expiration Date
☐ Yes ☒ No	Solar Collector - Ground Mount ▼ 60	(Number)	Private ▼ Private ▼	▼	10/13/2026
Existing Use *	Sprinkler System *	Energy Storage System *			
SFD	▼ ☒ Yes ☐ No	☒ Yes ☐ No			

Related Records

Showing 1-2 of 2

Permit Number	Record Type Alias	Status	Number	Street Name	Opened Date	Description
B26001174	Solar Express (Residential Only)	Review In Process	638	RIVER	04/15/2026	SFD/ INSTALL (60) GROUND MOUNTED SOLAR F
E26001673	Residential Electrical Addition Alteration Permit	Issued	638	RIVER	04/15/2026	SFD/ INSTALL (60) GROUND MOUNTED SOLAR F

Page 1 of 1

Submit Cancel

SOLAR PV SYSTEM: 27.6 kWp

SLAFKOSKY RESIDENCE

638 RIVER ROAD, SYKESVILLE, MD, 21784

PROJECT INFORMATION

OWNER: ALEXANDER SLAFKOSKY
ADDRESS: 638 RIVER ROAD,
SYKESVILLE, MD, 21784

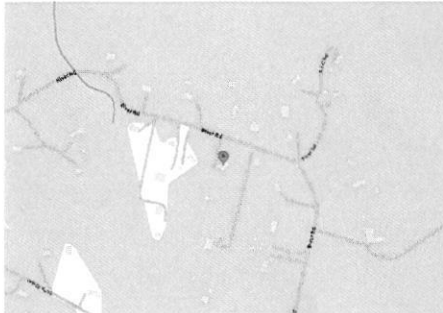
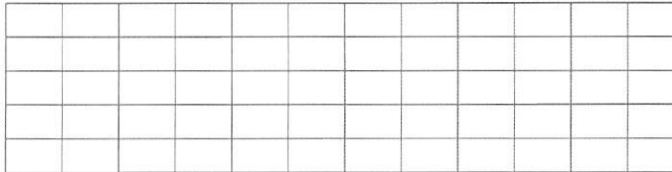
AHJ: HOWARD COUNTY (MD)
ADDRESS: 3430 COURT HOUSE DRIVE,
ELLICOTT CITY, MD, 21043

ZONING: RESIDENTIAL
OCCUPANCY: SINGLE-FAMILY DWELLING (R-3)
BUILDING CODE: IBC 2021
ELECTRICAL CODE: NEC 2023
ASCE VERSION: ASCE 7-16
SNOW LOAD: 40 PSF
WIND SPEED: 115 MPH
WIND EXPOSURE: B

DC RATING: 27.6 kW
AC RATING: 22.8 kW
RACKING: SOLAR FOUNDATIONS
MODULE: (60) REC460AA PURE-RX
INVERTER: (60) IQ8X-80-M-US

BATTERY: (4) ENPHASE IQ BATTERY 5P

PLACARDS REQUIRED



FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

ALEXANDER SLAFKOSKY
638 RIVER ROAD,
SYKESVILLE, MD, 21784

CONTRACTOR INFO:



LUMINA
3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	05-21

COVER

Z001

James C Douglas
Digitally signed by
James C Douglas
Date: 2026.03.16
15:23:16 -04'00'



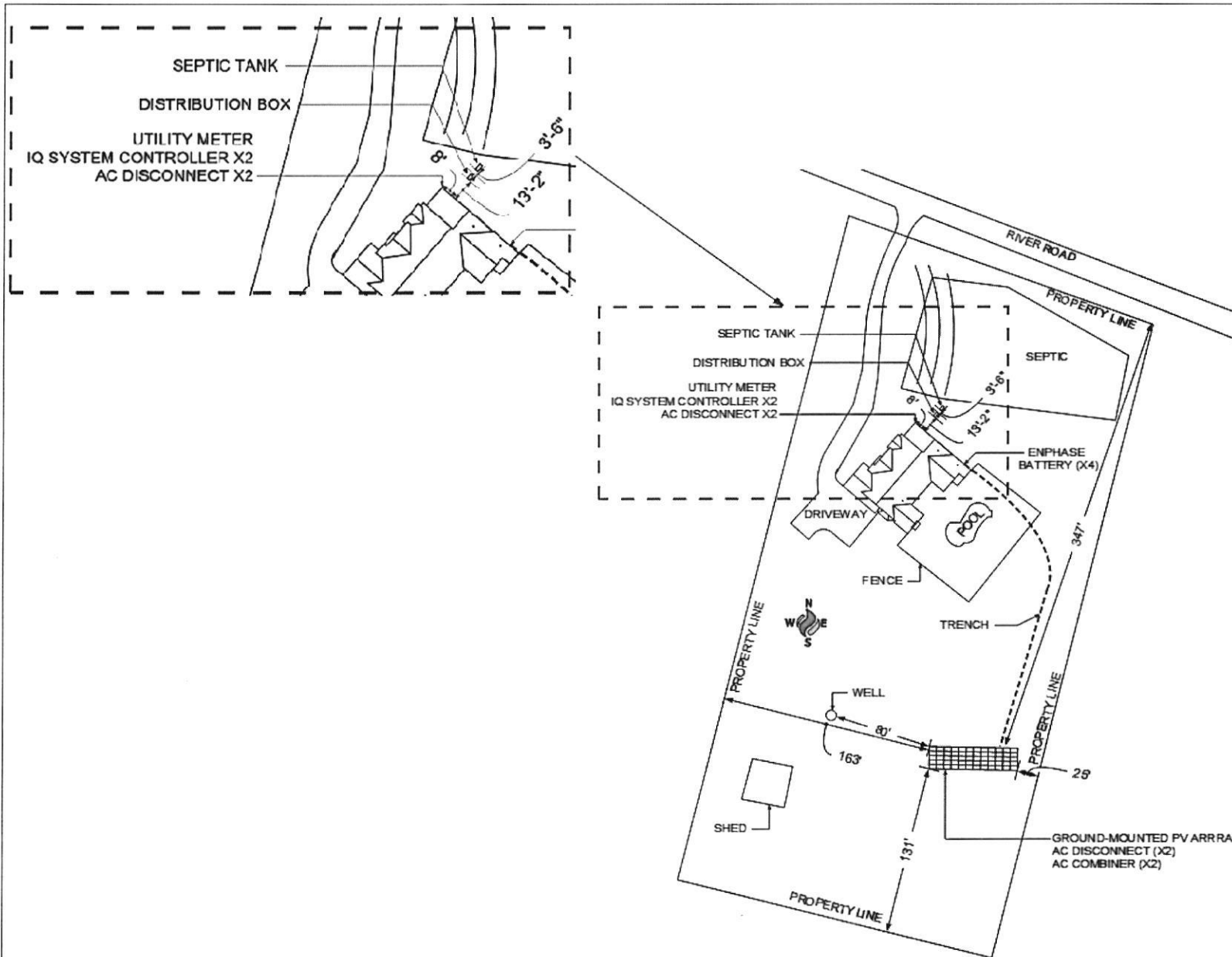
GENERAL NOTES

- 1) THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
- 2) ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE AND AS REQUIRED BY THE NEC AND AHJ.
- 3) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS

4) THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM, AND THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE.

5) BUILDING IS NOT EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM

FOR ENGINEERING USE ONLY



FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

ALEXANDER SLAFKOSKY
638 RIVER ROAD,
SYKESVILLE, MD, 21784

CONTRACTOR INFO:



LUMINA
3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV DATE

IFC 05-21

SITE PLAN

A002

9/4/94
NOON
late
12/27/95
10:00 house connection

03-315738

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Hold for WEEK
HOUSE CONNECTION
P 50759
A 44700
I.P.C. 0000
3/10/00

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXX~~ 313-2640

DISTRICT

DATE 6/30/95

DATE SYSTEM APPROVED 12/29/95

INSPECTOR

INDEXED

Jack Fyock septic Service

IS PERMITTED TO INSTALL ☒ ALTER

ADDRESS

PHONE 988-9270

SUBDIVISION Shaw Property

LOT 8

ROAD 638 River Road

PROPERTY OWNER

Richard Quaid / Connelly

ADDRESS

SEPTIC TANK CAPACITY 1250 GALLONS TOP SEAMED TANK

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 280

Serial #52156
Returned 01/12/94
SFD-

TRENCHES - Trench to be 3 feet wide. Inlet 2 feet below original grade. Bottom maximum depth 3.5 feet below original grade. Effective area begins at 2 feet below original grade. 1.5 feet of stone below distribution pipe.

LOCATION - Place distribution box 110 feet from front lot line and 75 feet from the right lot line as seen when facing property from River Road. Run trenches on contour toward front lot line.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK MR 9/13/94

PLANS APPROVED BY C. Williams

DATE 09/12/94

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

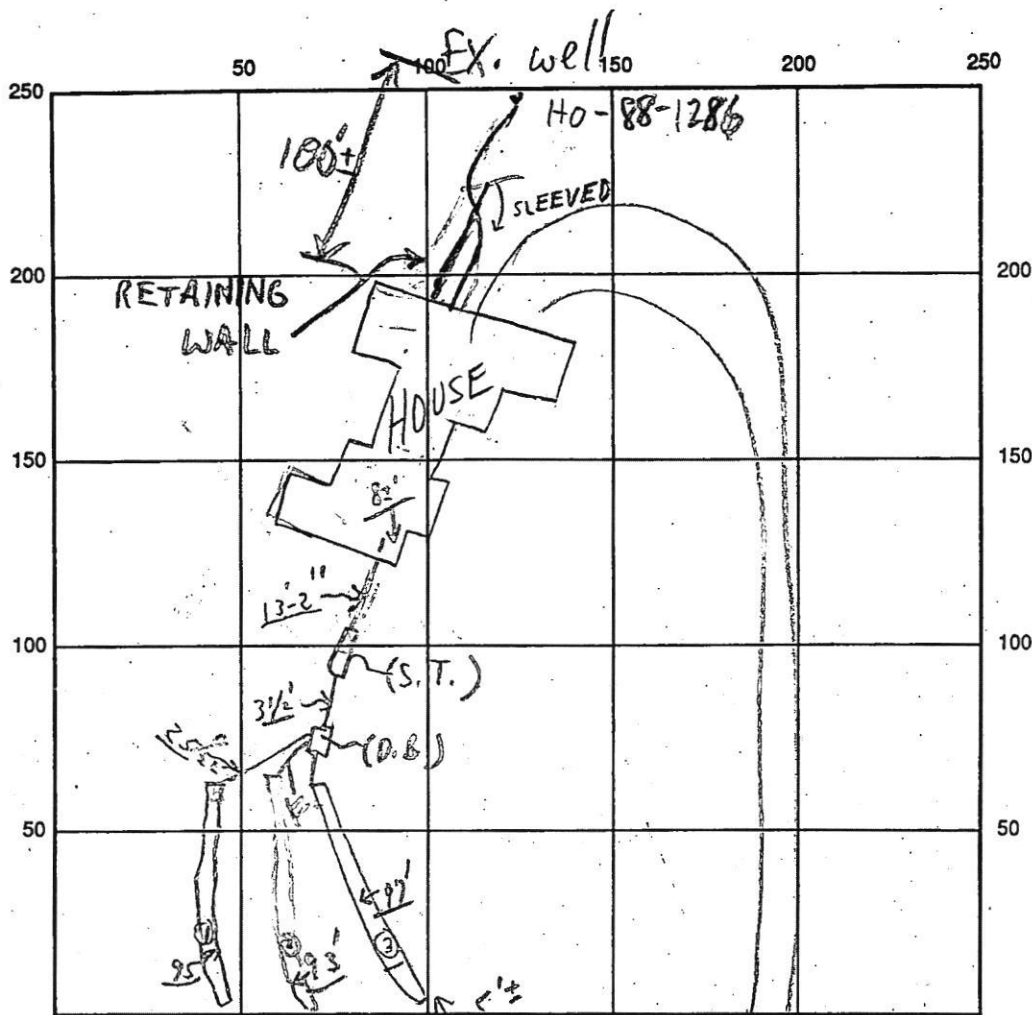
*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

HD-260(6-90)

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

BUILDING PERMIT SIGNED
AND RETURNED
12-3-03-IG POU

44700



RIVER RD

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASELINE

SEPTIC TANK LEVEL TOP SEAM - OK CLEANOUTS (Municipal + local) - OK
 DISTRIBUTION BOX LEVEL OK (Baffle in)
 DRAIN FIELD/TITLE DEPTH 3.5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 2 FT.
 EFFECTIVE GRAVEL DEPTH 1 1/2 FT. { 95'; 93'; 97' } TOTAL LENGTH 285 FT.
 NUMBER OF TRENCHES 3 ONE SIDEWALL BOTTOM AREA 855 SQ. FT.
 DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.
 ABSORBENT AREA 855 SQ. FT.

REMARKS: 9/13/94 ST & D.B. SET, NO OTHER WORK MR
8/14/94 OK to continue on work; cost 2 Trenches - only
to cover; cost 9/14/94 Later P.M. - Partial no house
connection; 9/14/94 Later - Final check house
connection & C.O. @ S.T. OK to cover as finished
9/14 No W.P.I. cost NEEDS HOUSE CONNECTION YET
 DATE SYSTEM APPROVED 1/194 INSPECTOR (as per front + above)

Eshenbaugh, Melanie

From: Eshenbaugh, Melanie
Sent: Thursday, April 23, 2026 3:44 PM
To: permits@FUSIONSS.NET
Subject: B26001174
Attachments: WS_River_638_SepticPermit-1993.pdf

Good afternoon,

After conducting a site visit to the property and reviewing the proposed plans for the solar panels under B26001174, the submitted plot plan overlay onto the septic design plan shows the trench line (approx. 370' line) nearest the house crossing the septic line. Also, the septic tank and septic line are shown incorrectly based on HD records and a site visit (see attached record pg. 2). The septic design plan does not reflect the accurate details of the septic installation per the attached HD as-built drawing. Please revise the plan/s to accurately show the septic tank location and septic line and if necessary revise the solar panel trench power line (370' line shown on the submitted plans) to avoid impacting the property's septic line. If you should have any questions, please feel free to contact me. Hope you have a wonderful day and thank you kindly.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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SOLAR PV SYSTEM: 27.6 kWp

SLAFKOSKY RESIDENCE

638 RIVER ROAD, SYKESVILLE, MD, 21784

PROJECT INFORMATION

OWNER: ALEXANDER SLAFKOSKY
ADDRESS: 638 RIVER ROAD,
SYKESVILLE, MD, 21784

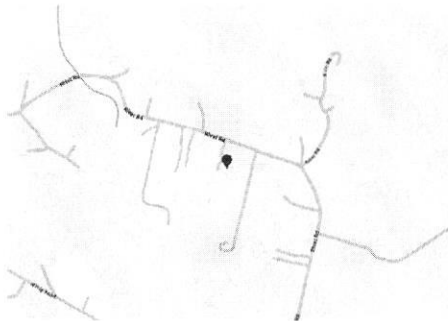
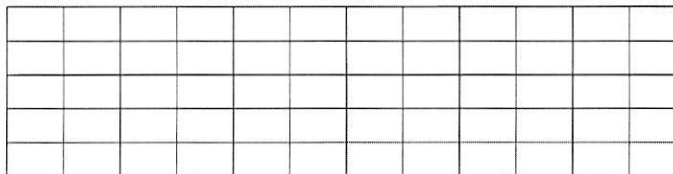
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RACKING: SOLAR FOUNDATIONS
MODULE: (60) REC460AA PURE-RX
INVERTER: (60) IQ8X-80-M-US

BATTERY: (4) ENPHASE IQ BATTERY 5P

PLACARDS REQUIRED



FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

ALEXANDER SLAFKOSKY

638 RIVER ROAD,
SYKESVILLE, MD, 21784

PROJECT SCOPE

THIS PROJECT INVOLVES THE INSTALLATION OF (60) REC460AA PURE-RX SOLAR MODULES. THE SOLAR MODULES WILL BE RACKED USING A PRE-ENGINEERED RACKING SYSTEM. THE RACKED MODULES WILL BE ELECTRICALLY CONNECTED TO (60) IQ8X-80-M-US DC TO AC POWER INVERTERS, AND (4) ENPHASE IQ BATTERY 5P ENERGY STORAGE DEVICES. THEY WILL BE INTERCONNECTED TO THE LOCAL UTILITY USING MEANS AND METHODS CONSISTENT WITH THE RULES ENFORCED BY THE LOCAL UTILITY AND PERMITTING JURISDICTION.

INDEX OF PAGES

Z001 COVER PAGE
A00(##) ATTACHMENT & SITE PLANS
S00(##) ASSEMBLY & LOAD CALCS
E001 3-LINE DIAGRAM
E002 WIRE CALCS
E003 CIRCUIT & CONDUIT MAP
E004 EQUIPMENT RATINGS & SIGNAGE
X00(##) BOM, NOTES, MISCELLANEOUS

CONTRACTOR INFO:



LUMINA
3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	04-08

COVER

Z001

James C. Douglas
Digitally signed by
James C. Douglas
Date: 2024.03.16
15:23:16 -0400



GENERAL NOTES

1) THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

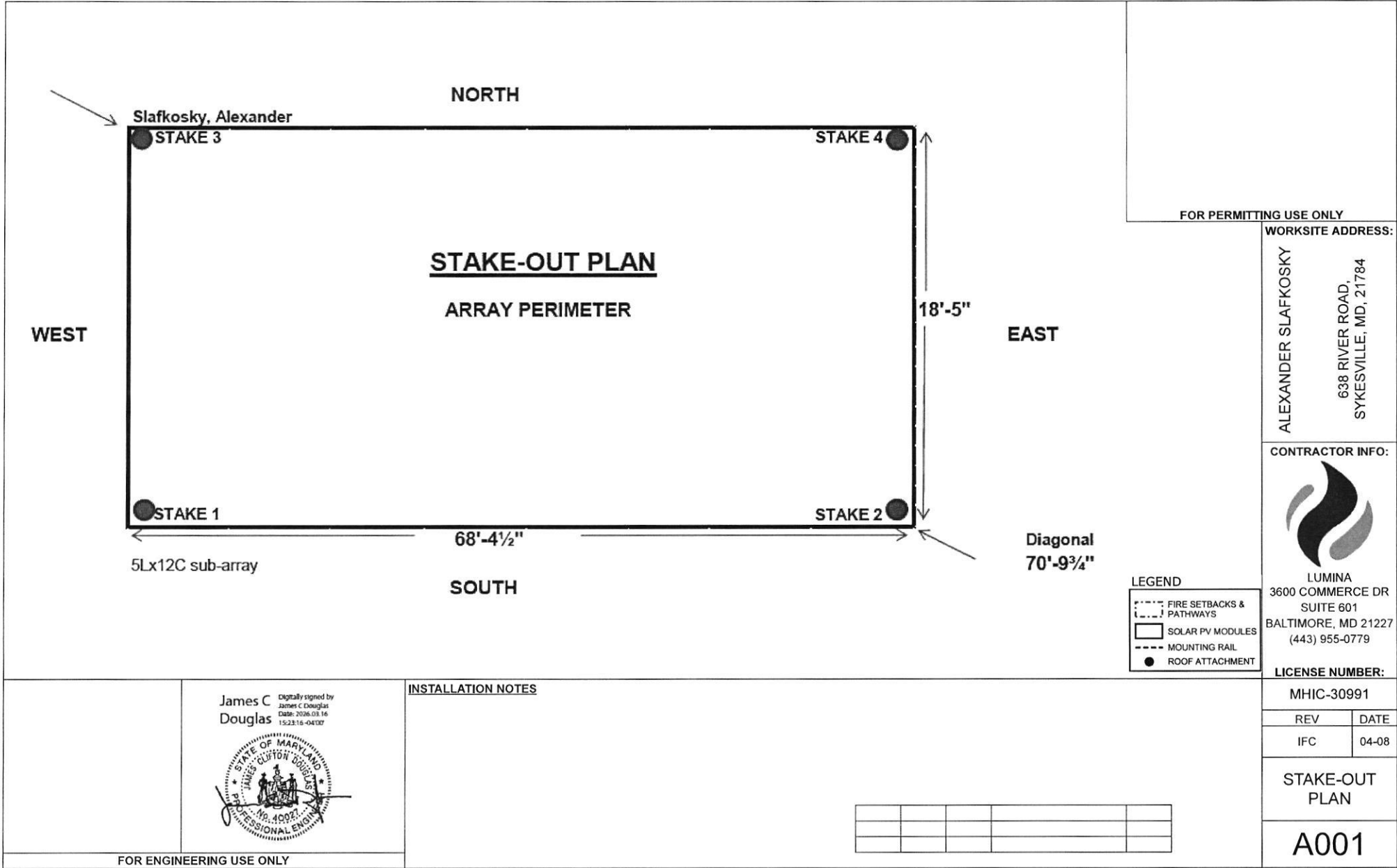
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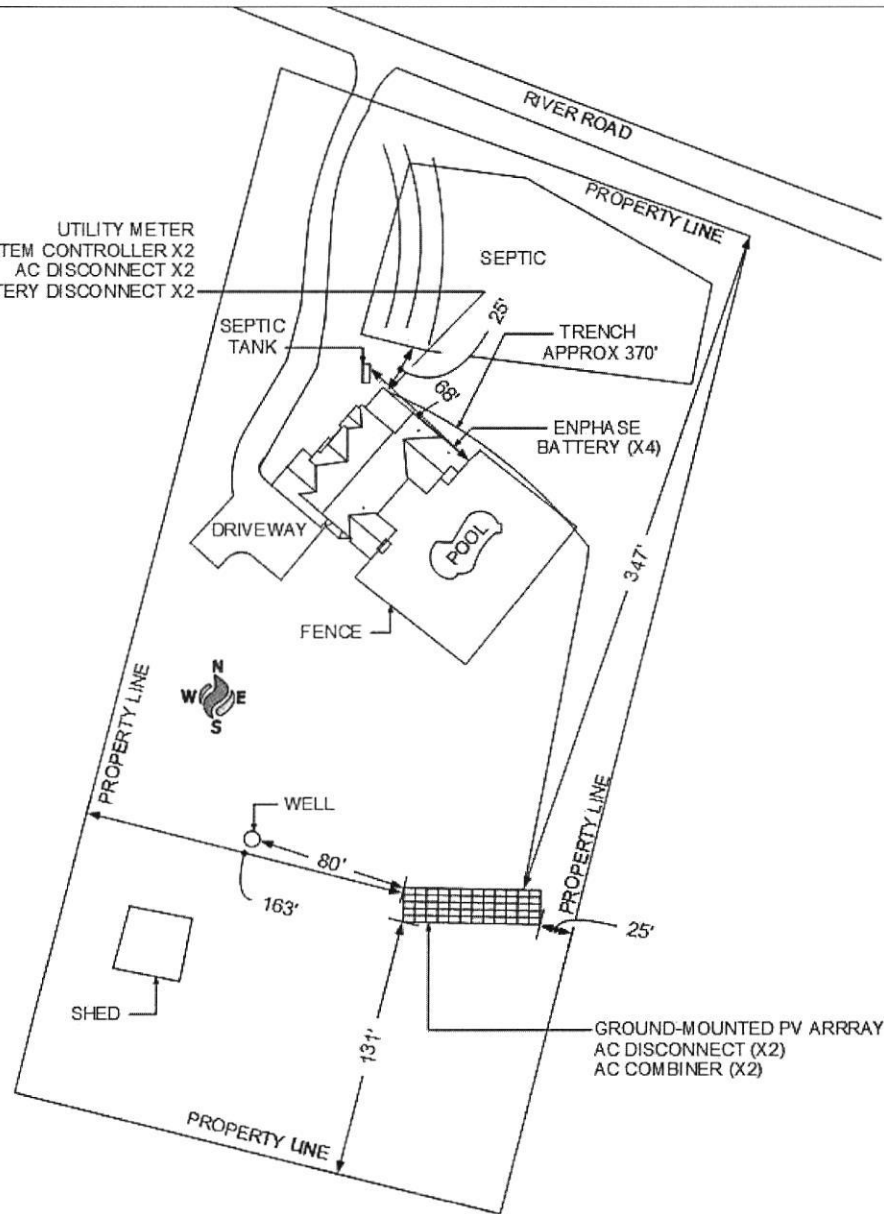
4) THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM, AND THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE.

5) BUILDING IS NOT EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM

FOR ENGINEERING USE ONLY



UTILITY METER
 IQ SYSTEM CONTROLLER X2
 AC DISCONNECT X2
 BATTERY DISCONNECT X2



FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

ALEXANDER SLAFKOSKY
 638 RIVER ROAD,
 SYKESVILLE, MD, 21784

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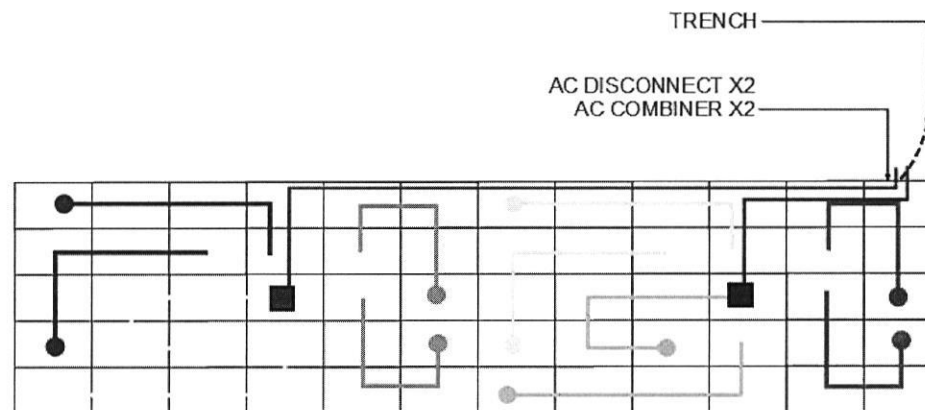
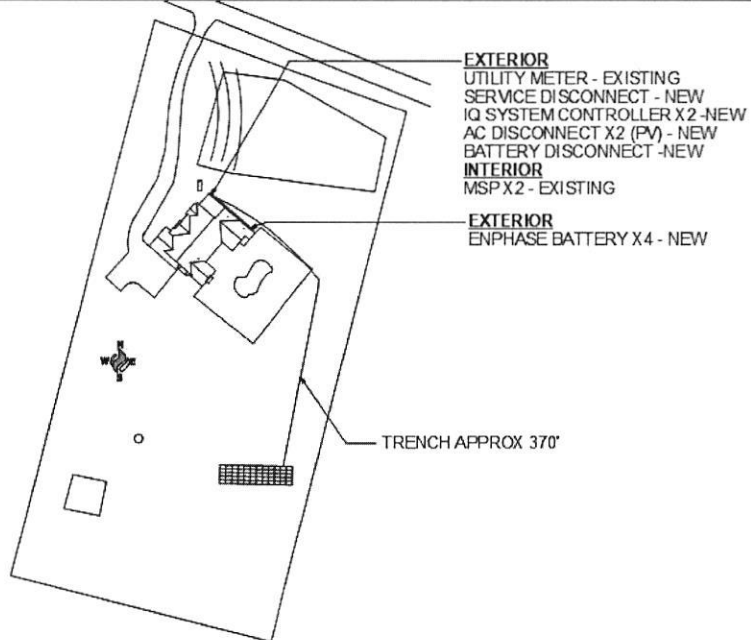
LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	04-08

SITE PLAN

A002



Color	Circuit	Mod. Count
	#1	10
	#2	10
	#3	10
	#4	10
	#5	10
	#6	10

LEGEND	
	JUNCTION BOX
	SOLADECK
	END CAP
	EXTERIOR CONDUIT
	ATTIC CONDUIT
	INTERIOR CONDUIT
	CRITTER GUARDS
	TRUNK CABLE

FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

ALEXANDER SLAFKOSKY
638 RIVER ROAD,
SYKESVILLE, MD, 21784

CONTRACTOR INFO:



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3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	04-08

CIRCUIT &
CONDUIT MAP

E003

NOTES

CRITTER GUARDS ARE NOT A COMPONENT OF THIS INSTALLATION.

SOLAR MODULE: REC460AA PURE-RX

INVERTER: IQ8X-80-M-US

DC SYSTEM SIZE: 27.6 kW

AC SYSTEM SIZE: 22.8 kW

Solar Module Ratings	
REC460AA PURE-RX	
Length:	68 in
Width:	47.4 in
Thickness:	1.2 in
Weight:	50 lbs
Imp:	8.38 A
Vmp:	54.9 V
Voc:	65.8 V
Isc:	8.88 A
OCPD:	25 A
Pmax:	460 W
Vmax:	1000 V
Temp. Coefficient:	-0.24 %Voc/°C
Square Footage:	22.38 sq.ft.

Inverter Ratings	
IQ8X-80-M-US	
Max # Per String:	10
Imax (ac):	1.58 A
Vmax (dc):	79.5 V
Pmax:	380 W
Norm. AC Voltage:	240 V
OCPD:	20 A
Weight:	2.4 lbs
Imax (Input):	16 A
Pmax (dc) Input:	540 V
Ppeak (AC):	384 W

Battery Ratings	
IQBATTERY-5P-1P-NA	
Max AC Input:	15360 W
Norm. AC Voltage:	120/240 V
Total Energy:	5 kWh
Usable Energy:	5 kWh
OCPD:	20 A
Largest Load:	20 A
Largest Inrush:	48 A
Weight:	174 lbs
Dimensions:	38.6" x 21.7" x 7.4"

1 **WARNING: PHOTOVOLTAIC POWER SOURCE**

2 PHOTOVOLTAIC DC DISCONNECT

3 PHOTOVOLTAIC AC DISCONNECT

4 **PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN**

5 **RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM**

6 **INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED**

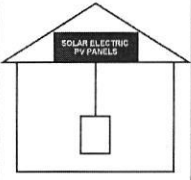
7 **WARNING**
DUAL POWER SOURCE, SECOND SOURCE IS PHOTOVOLTAIC SYSTEM.

8 **WARNING**
INVERTER OUTPUT CONNECTION, DO NOT RELOCATE THIS OVERCURRENT DEVICE.

9 **WARNING**
ELECTRICAL SHOCK HAZARD

DO NOT TOUCH TERMINALS! TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION!

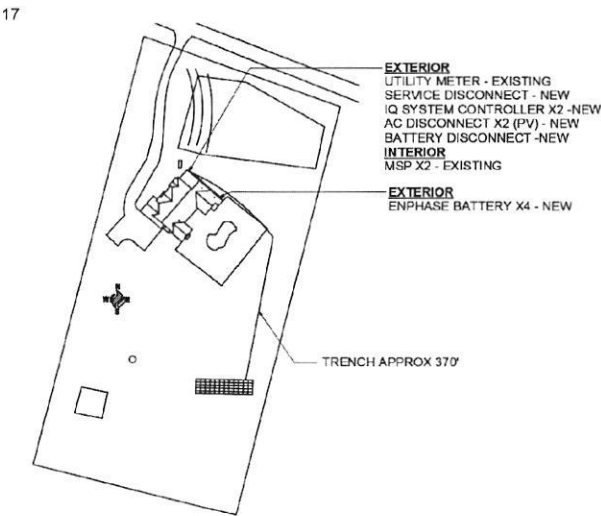
10 **SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN**

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY.


11 **SOLAR PV SYSTEM DISCONNECT**
RATED AC OUTPUT CURRENT: 47.40 A
NOM. OPERATING AC VOLTAGE: 240 V

12 **WARNING**
ELECTRICAL SHOCK HAZARD

IF GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED.



FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

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638 RIVER ROAD,
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IFC	04-08

EQUIP.
RATINGS &
SIGNAGE

E004

NOTES

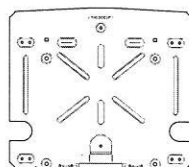
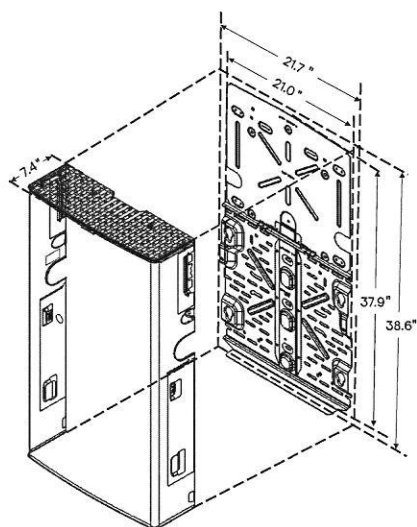
- 1) Label to be installed at exposed raceways, cabletrays, and other wiring methods, spaced at maximum 10ft sections or where separated by enclosures, walls, partitions, ceilings, or floors.
- 2) Label to be installed at each DC disconnecting means.
- 3) Label to be installed at each AC disconnecting means.
- 4) Label to be installed at Rapid Shutdown Switch (RSD).
- 5) Label to be installed on, or no more than 3ft from, the RSD.
- 6) Label to be installed at utility meter.
- 7) Label to be installed on exterior of main electrical panel.
- 8) Label to be applied to the distribution equipment.
- 9) Label to be applied at each disconnect means for the PV equipment.
- 10) Label to be installed on, or no more than 3ft from, the service disco.
- 11) Label to be installed at an accessible location at the disco means.
- 12) Label to be applied at each disconnect means for the PV equipment.
- 13) All plaques and labels shall have a red background (or as shown here)
- 14) All lettering shall be white & have a minimum height of 3/8" (or as shown here)
- 15) Font shall be arial (or similar) and all lettering shall be capitalized.
- 16) All plaques and labels shall be of a material suitable for the environment installed
- 17) Image for directory placard



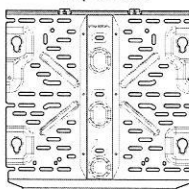
IQ Battery 5P

The IQ Battery 5P all-in-one AC-coupled system is powerful, reliable, simple, and safe. It has a total usable energy capacity of 5.0 kWh and includes six embedded grid-forming microinverters with a 3.84 kVA continuous power rating. It provides backup capability, and installers can quickly design the right system size to meet the customer needs.

Dimensions



Top shield



Bottom mounting bracket



15-year
limited
warranty



LISTED



UL 9540A
Certified

Powerful

- Provides 3.84 kVA continuous and 7.68 kVA peak power
- Doubles the available power per kWh of prior generations of IQ Battery
- Includes six embedded IQ8D-BAT Microinverters

Reliable

- 15-year limited warranty
- Cools passively with no moving parts or fans
- Uses wired communication for fast and consistent connection
- Updates software and firmware remotely

Simple

- Fully integrated AC battery system
- Installs and commissions easily
- Supports Backup, Self-Consumption, and time-of-use (TOU) modes
- Offers homeowners remote monitoring and control from the Enphase App
- Field replaceable components

Safe

- Evaluated to UL 9540A for large scale fire testing and reduced separation distance as required in 2021 IRC R328.3.1, 2021 IFC 1207.1.5, and 2023 NFPA 855 15.3.1 and 9.1.5.¹
- Uses lithium iron phosphate (LFP) chemistry for maximum safety and longevity

IQ Battery 5P

MODEL NUMBER	
IQBATTERY-5P-1P-NA	The IQ Battery 5P system with integrated IQ Microinverters and battery management system (BMS) with battery controller
WHAT'S IN THE BOX	
IQ Battery 5P unit	IQ Battery 5P unit (B05-T02-US00-1-3)
ID cover and conduit cover	IQ Battery 5P cover with two conduit covers for the left and right sides of the unit
Bottom mounting bracket and top shield	Bottom mounting bracket for mounting the battery on the wall. One top shield is required for UL9540A
M5 seismic screws	Two M5 seismic screws for securing the battery unit on the bottom mounting bracket
M4 grounding screws	Two M4 grounding screws for securing the top shield on the bottom mounting bracket
M5 ID cover grounding screws	Two M5 ID cover grounding screws for the EMI/EMC requirement
Cable ties	Six cable ties for securing field cables to the unit
Control (CTRL) connector	Spare CTRL connector without resistor for CTRL wiring
Control (CTRL) connector with resistor	Spare CTRL connector with resistor for CTRL wiring
Quick Install Guide (QIG)	QIG for IQ Battery unit installation instructions
OPTIONAL ACCESSORIES AND REPLACEMENT PARTS	
IQ8D-BAT-RMA	IQ8D-BAT Microinverter for field replacement
B05-T02-US00-1-3-RMA	IQ Battery 5P Battery unit for field replacement
B05-CX-0550-O	IQ Battery 5P cover for field replacement
B05-PI-0550-O	IQ Battery 5P pedestal mount
B05-CP-096-O	IQ Battery 5P conduit plates for field replacement. Includes one left-side and one right-side conduit plate
B05-WB-0543-O	IQ Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shield
IQBATTERY-HNDL-5	IQ Battery 5P lifting handles. Includes one left-side and one right-side lifting handle
B05-ACFB-080-O	IQ Battery 5P AC filter board for field replacement
B05-BMSNA-0490-O	IQ Battery 5P BMS board for field replacement
B05-CANB-063-O	IQ Battery 5P control communication board for field replacement
B05-NICS-0524-O, B05-NUCS-0524-O	IQ Battery 5P control switch is preinstalled on the wiring cover for field replacement
OUTPUT (AC)	
	@240 VAC ²
Rated (continuous) output power	3.84 kVA
Peak output power	7.68 kVA (3 seconds), 6.14 kVA (10 seconds)
Nominal voltage/range	240/211–264 VAC
Nominal frequency/range	60/57–63 Hz
Rated output current (@240 VAC)	16 A
Peak output current (@240 VAC)	32 A (3 seconds), 25.6 A (10 seconds)
Load start capability	Up to 48 A LRA ³
Power factor (adjustable)	0.85 leading...0.85 lagging
Maximum units per 20 A branch circuit	One unit (single-phase)
Maximum conductor size supported	3 AWG
Overcurrent protection device (OCPD) for 3 AWG cable	80 A
Interconnection	Single-phase
AC round-trip efficiency ⁴	90%

²Supported in both grid-connected and backup/off-grid operation

³Load start capability may vary

⁴AC to the battery to AC at 50% power rating

IQ Battery 5P

BATTERY

Total capacity	5.0 kWh
Usable capacity	5.0 kWh
DC round-trip efficiency	96%
Nominal DC voltage	76.8 V
Maximum DC voltage	86.4 V
Ambient operating temperature range (charging)	-20°C to 50°C (-4°F to 122°F) non-condensing
Ambient operating temperature range (discharging)	-20°C to 55°C (-4°F to 131°F) non-condensing
Optimum operating temperature range	0°C to 30°C (32°F to 86°F)
Chemistry	Lithium iron phosphate (LFP)

MECHANICAL DATA

Dimensions (HxWxD)	980 mm x 550 mm x 188 mm (38.6 in x 21.7 in x 7.4 in)
Lifting weight	66.3 kg (146.1 lbs)
Total installed weight	78.9 kg (174 lbs)
Enclosure	Outdoor-NEMA 3R
IQ8D-BAT Microinverter enclosure	NEMA type 6
Cooling	Natural convection
Altitude	Up to 2,500 meters (8,202 feet)
Mounting	Wall-mount or pedestal-mount (sold separately)

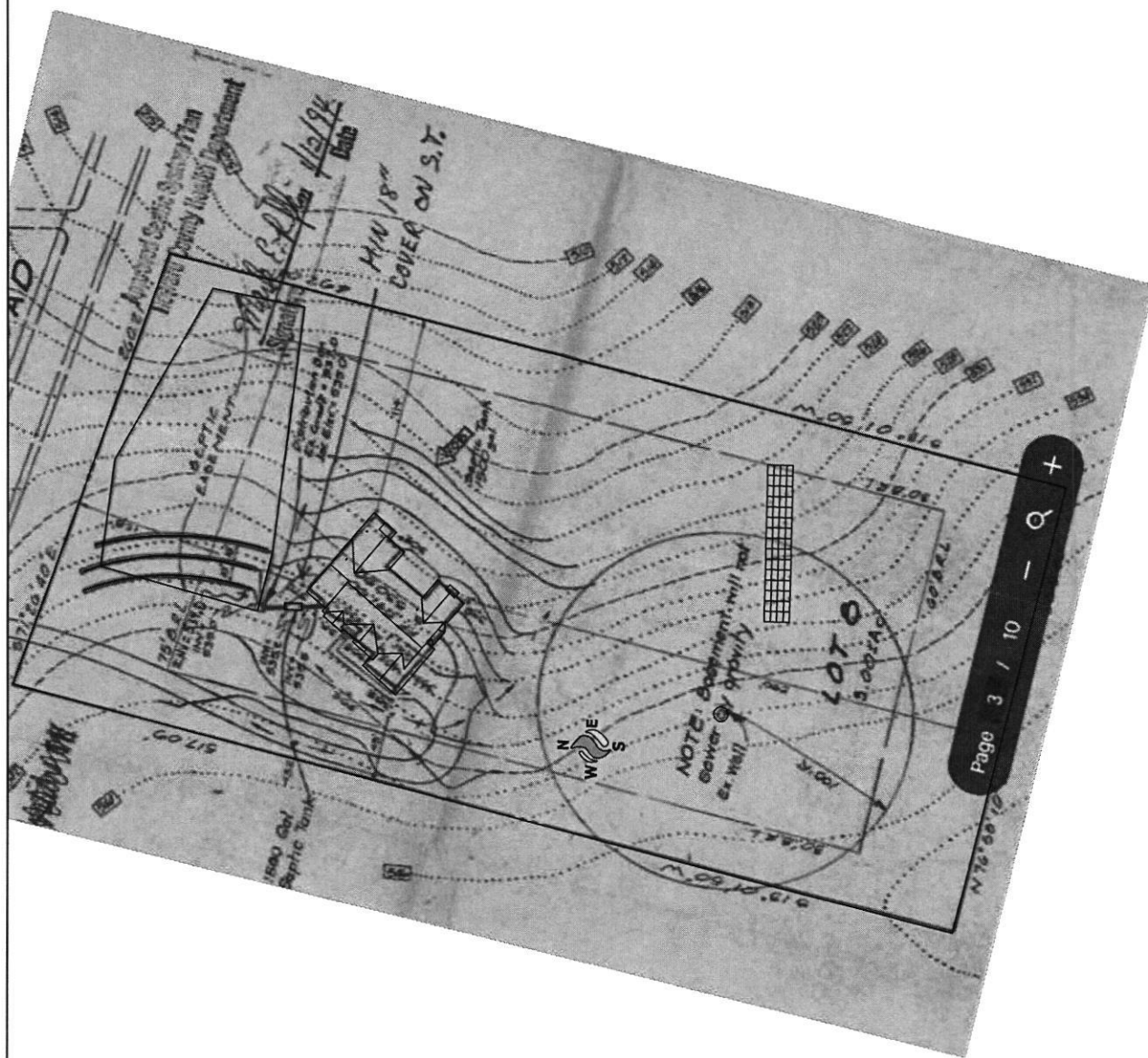
FEATURES AND COMPLIANCE

Compatibility	Compatible with IQ and M Series Microinverters, IQ System Controller 3/3G, IQ Combiner 5/5C, and IQ Gateway for grid-tied and backup operation
Communication	Wired control communication
Services	Backup, Self-Consumption, TOU, and NEM integrity
Monitoring	Enphase Installer Platform and Enphase App monitoring options; API integration
Compliance	CA Rule 21 (UL 1741-SA), IEEE 1547:2018 (UL 1741-SB, 3rd Ed.) CAN/CSA C22.2 No. 107.1-16 UL 9540, UL 9540A, UN 38.3, UL 1998, UL 991, NEMA Type 3R, AC156 EMI: 47 CFR, Part 15, Class B, ICES 003 Cell module: UL 1973, UN 38.3 Inverters: UL 62109-1, IEC 62109-2

LIMITED WARRANTY

Limited warranty	>60% capacity, up to 15 years or 6,000 cycles ⁵
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⁵ Whichever occurs first. Restrictions apply



FOR PERMITTING USE ONLY

PROJECT ADDRESS:

ALEXANDER
SLAFKOSKY
638 RIVER ROAD
SYKESVILLE, MD 21784

CONTRACTOR INFO:



LUMINA
3600 COMMERCE DR
SUITE 601
BALTIMORE, MD
21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	3/6/2026

PLAT PLAN
OVERLAY

X001