



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: REVISED
Permit No.: B20002180

Building Address: 1799 ~~Henington Road~~ Unit 1
City: Marriottsville State: MD Zip Code: 21104
Unit/Apt. # Unit 1 SDP/WP/BA #: SDP-20-090
Subdivision: 3rd Election District
Lot: Block 19 Tax Map: 10 Parcel: 18
Existing Use: Zoned RR-DEO Existing Field
Proposed Use: SOLAR PANEL FARM
Estimated Construction Cost: \$ \$ 1,600,00
Description of Work: Construct Ground Mount solar system of 1,900 MW AC and 6,129 Solar Panels.
Unoccupied Facility
Occupant/Tenant Name: Nautilus Solar
Was tenant space previously occupied? ☐ Yes ☒ No
Contact Name: Sean Rooney
Address: 396 Springfield Avenue B, 2nd FL
City: Summit State: UT Zip Code: 07901
Phone: 908-795-3040 Fax: -
Email: sean@nautilusolar.com

Property Owner's Name: Austin K. Hartzman
Address: 1730 Henington Road
City: Marriottsville State: MD Zip Code: 21104
Phone: 410-442-1831 Fax: -
Email: -
Applicant's Name & Mailing Address, (If other than stated herein)
Applicant's Name: Frank T. Bucceri
Address: 6701 Democracy Blvd Suite 300
City: Fethersville State: MD Zip Code: 20817
Phone: 301-331-7471 Fax: -
Email: frank.bucceri@comcast.net
Contractor Company: MB Haynes Corp
Contact Person: Frank Bucceri
Address: 6701 Democracy Blvd Suite 300
City: Fethersville State: MD Zip Code: 20817
License No.: 15359160
Phone: 301-331-7471 Fax: -
Email: frank.bucceri@comcast.net
Engineer/Architect Company: Avoca Engineers
Responsible Design Prof.: Kevin Leary
Address: 242 Old New Brunswick Road
City: Piscataway State: UT Zip Code: 08854
Phone: 732-465-1002 Fax: -
Email: kleary@avocagroup.com

Commercial Building Characteristics	Residential Building Characteristics
Height: <u>12 ft</u>	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: <u>1</u>	Depth Width
Gross area, sq. ft./floor: <u>3.8 Acre</u>	1st floor:
Area of construction (sq. ft.): <u>3.8 Acre</u>	2nd floor:
Use group:	Basement:
	<input type="checkbox"/> Finished Basement
	<input type="checkbox"/> Unfinished Basement
	<input type="checkbox"/> Crawl Space
Construction type:	<input type="checkbox"/> Slab on Grade
<input type="checkbox"/> Reinforced Concrete	No. of Bedrooms:
<input checked="" type="checkbox"/> Structural Steel	Multi-family Dwelling
<input type="checkbox"/> Masonry	No. of efficiency units:
<input type="checkbox"/> Wood Frame	No. of 1 BR units:
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:
	No. of 3 BR units:
	Other Structure:
	Dimensions:
➤ Roadside Tree Project Permit	Footings:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Roof:
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Gas: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Supply
<input type="checkbox"/> Public <u>NO</u>
<input type="checkbox"/> Private
Sewage Disposal
<input type="checkbox"/> Public <u>NO</u>
<input type="checkbox"/> Private
Heating System
<input type="checkbox"/> Electric <input type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas
<input type="checkbox"/> Other: <u>NO</u>
Sprinkler System:
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Grading Permit Number:
Building Shell Permit Number:

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Frank Bucceri Print Name: FRANK BUCCERI
Email Address: frank.bucceri@comcast.net Date: JULY 1, 2020
Title/Company: CONSTRUCTION MANAGER

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
PLEASE WRITE NEATLY & LEGIBLY
-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL	DPZ SETBACK INFORMATION	Filing Fee	\$
State Highways			Front:	Permit Fee	\$
Building Officials			Rear:	Tech Fee	\$
PSZA (Zoning)			Side:	Excise Tax	\$
PSZA (Engineering)			Side St.:	PSFS	\$
Health			All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No	Guaranty Fund	\$
Is Sediment Control approval required for issuance? <input type="checkbox"/> Yes <input type="checkbox"/> No			Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l per Fee	\$
<input type="checkbox"/> CONTINGENCY CONSTRUCTION START			Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No	Total Fees	\$
			Lot Coverage for New Town Zone:	Sub- Total Paid	\$
			SDP/Red-line approval date:	Balance Due	\$
				Check	#

ELECTRICAL PLAN

HENRYTON ROAD - CSG

SOLAR POWER GENERATION FACILITY

1825 SAND HILL ROAD,
MARRIOTTSVILLE, MD 21104

PROJECT DEVELOPER
NAUTILUS SOLAR ENERGY, LLC
396 SPRINGFIELD AVE
2ND FLOOR
SUMMIT, NJ 07901
(908) 795-3040

PROJECT EPC
SOLAMERICA ENERGY SERVICES, LLC
PEACHTREE PALISADES
1819 PEACHTREE RD., SUITE 100
ATLANTA GEORGIA 30309
PETER CORBETT
(404) 351-8175
FRANK BUCCERI
(201) 331-7471

ELECTRICAL ENGINEER
AVOCA ENGINEERS & ARCHITECTS, LLC
242 OLD NEW BRUNSWICK ROAD
PISCATAWAY, NEW JERSEY 08854
(732) 465-1002
KEVIN LEARY, PE
LIC. NO. 43259

CIVIL ENGINEER
ROBERT H. VOGEL ENGINEERING, INC.
3300 N. RIDGE ROAD, SUITE 110
ELLICOTT CITY, MD 21043
(410) 461-7666
ROBERT H. VOGEL, PE
PE NO. 16193

AUTHORITY HAVING JURISDICTION (AHJ)
HOWARD COUNTY DEPT. OF INSPECTION & PERMITS
GEORGE HOWARD BLDG
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MD 21043
(410) 313-2455

- DESIGN CRITERIA
- INTERNATIONAL BUILDING CODE, 2018 EDITION
 - NATIONAL ELECTRICAL CODE (NFPA 70), 2017 EDITION, WITH HOWARD COUNTY AMENDMENTS
 - 115 MPH WIND - EXPOSURE C
 - 25 PSF GROUND SNOW LOAD

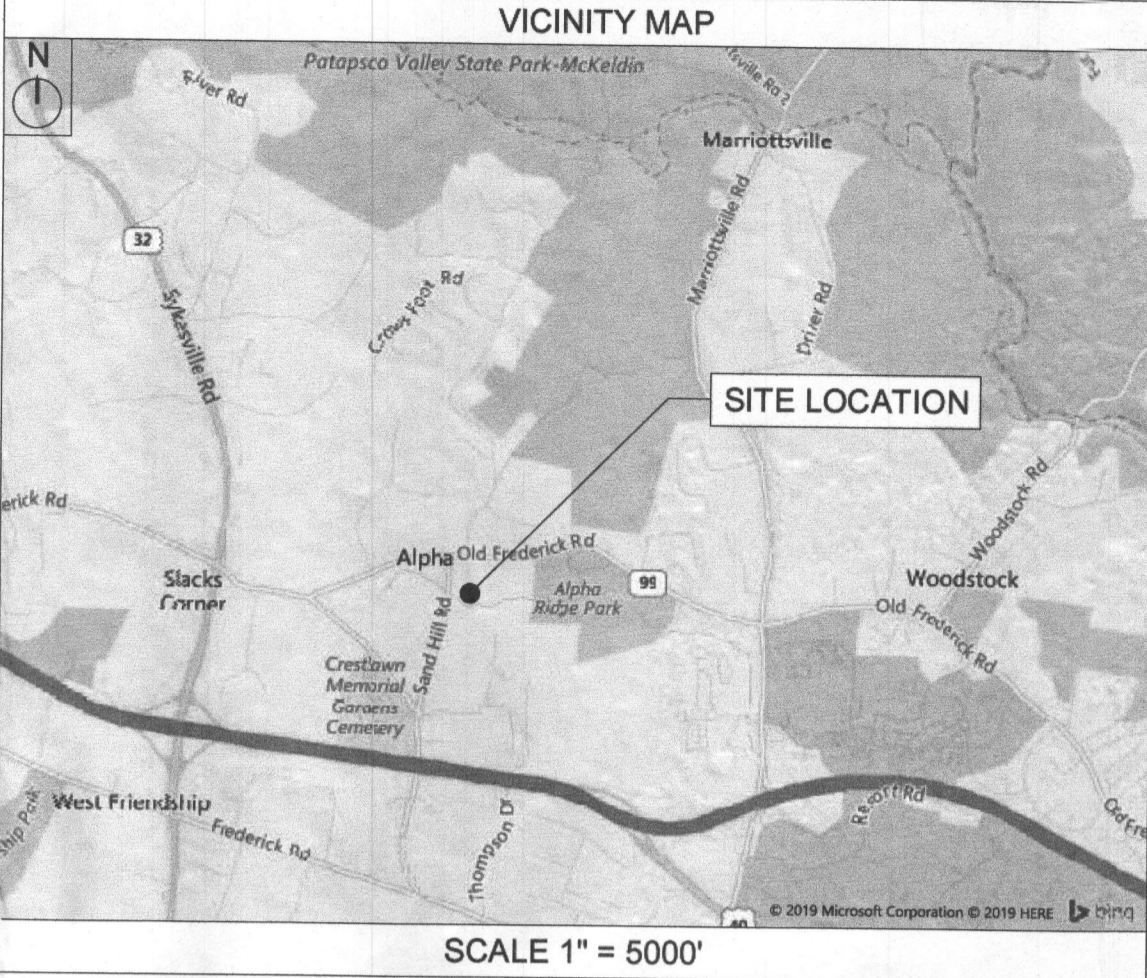
PROJECT DESCRIPTION
THE PROJECT CONSISTS OF THE FOLLOWING:

- INSTALLATION OF THE SOLAR PV MODULES AND GROUND MOUNTING SYSTEM ON OPEN LAND.
- INSTALLATION OF DC CABLES, CONDUITS AND DISCONNECTS.
- INSTALLATION OF THE DC TO AC INVERTERS ON INDIVIDUAL GALVANIZED BACKBOARDS NEXT TO SOLAR FLEXRACK SINGLE AXIS TRACKER SYSTEM.
- INSTALLATION OF THE INTERCONNECTION WITH BALTIMORE GAS AND ELECTRIC. INCLUDING CONDUIT AND WIRE.
- INSTALLATION OF A PERIMETER FENCE.

GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND BRING TO THE ENGINEER'S ATTENTION ANY DISCREPANCY OBSERVED IMMEDIATELY.
- THE CONTRACTOR SHALL COORDINATE OBTAINING ALL REQUIRED PERMITS.
- ALL DRAWINGS NOTES, & SPECIFICATIONS ARE COMPLIMENTARY. ANY WORK SHOWN OR REFERRED TO ON ANY ONE DRAWINGS SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DRAWINGS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT, ENGINEER AND/OR OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING, SHORING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND MISALIGNMENT. SUCH TEMPORARY BRACING AND SHORING SHALL REMAIN IN-PLACE UNTIL PERMANENT CONSTRUCTION HAS BEEN COMPLETED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS INCLUDING SAFETY.
- FOR DETAILED NOTES SEE E-002.

DRAWING SCHEDULE		
DWG. NO.	DRAWING TITLE	REV
E-001	COVER SHEET	8
E-002	GENERAL NOTES	8
E-101	GENERAL SITE OVERVIEW	8
E-201	AC ONE LINE DIAGRAM	8
E-202	TRACKER SYSTEM POWER	8
E-211	DC ONE LINE DIAGRAM	8
E-221	CONDUCTOR SCHEDULES	8
E-222	CONDUCTOR SCHEDULES	8
E-301	MONITORING SYSTEM	8
E-401	CABLE AND CIRCUIT LAYOUT	8
E-402	CABLE AND CIRCUIT LAYOUT	8
E-403	CABLE AND CIRCUIT LAYOUT	8
E-411	TRACKER POWER SITE PLAN	8
E-501	TRANSFORMER LAYOUT	8
E-502	EQUIPMENT WORKING SPACE	8
E-511	SWITCHGEAR DETAILS	8
E-521	CONDUIT AND WIRE MANAGEMENT 1 OF 2	8
E-531	CONDUIT AND WIRE MANAGEMENT 2 OF 2	8
E-541	TRENCH DETAILS	8
E-551	MISCELLANEOUS DETAILS	8
E-601	GENERAL GROUNDING	8
E-602	STRUCTURE GROUNDING	8
E-603	MV EQUIPMENT GROUNDING	8
E-604	FENCE GROUNDING	8
E-701	MV SITE PLAN AND TRENCH	8
E-801	LABELS AND SIGNAGE 1 OF 2	8
E-811	LABELS AND SIGNAGE 2 OF 2	8
E-901	SPEC SHEETS	8



1819 Peachtree Rd. NE - Suite 100
Atlanta, GA 30309 (404) 351-8175

1819 Peachtree Rd. NE - Suite 100
Atlanta, GA 30309 (404) 351-8175

PERMIT DRAWING - NOT
RELEASED FOR CONSTRUCTION
CERTIFICATION

PROFESSIONAL CERTIFICATION. I HEREBY
CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND
THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 43259, EXPIRATION DATE:
JANUARY 15, 2021.

AVOCA
ENGINEERS
& ARCHITECTS

242 OLD NEW BRUNSWICK ROAD PISCATAWAY NJ 08854
PHONE (732) 465-1002 FAX (732) 465-1005
MARYLAND ENGINEERING FIRM REGISTRATION NO. 49489

RECEIVED
JUL 20 2020
LICENSES & PERMITS
DIVISION

NO.	DATE	DESCRIPTION
1	12/04/19	REVISED FENCE LINE BETWEEN PHASE I AND II
2	12/20/19	REISSUED FOR PERMIT
3	02/28/19	PROJECT NAME CHANGE ONLY
4	02/28/19	REVISED PER COMMENTS, ADDED AC TRACKER POWER
5	02/14/20	REVISED TRACKER MANUFACTURER
6	03/23/20	ISSUED FOR PERMIT
7	05/20/20	REVISED GRAVEL TURN-AROUND AREAS
8	08/17/20	REVISED GRAVEL TURN-AROUND AREAS

PROJECT: 19-BU-118

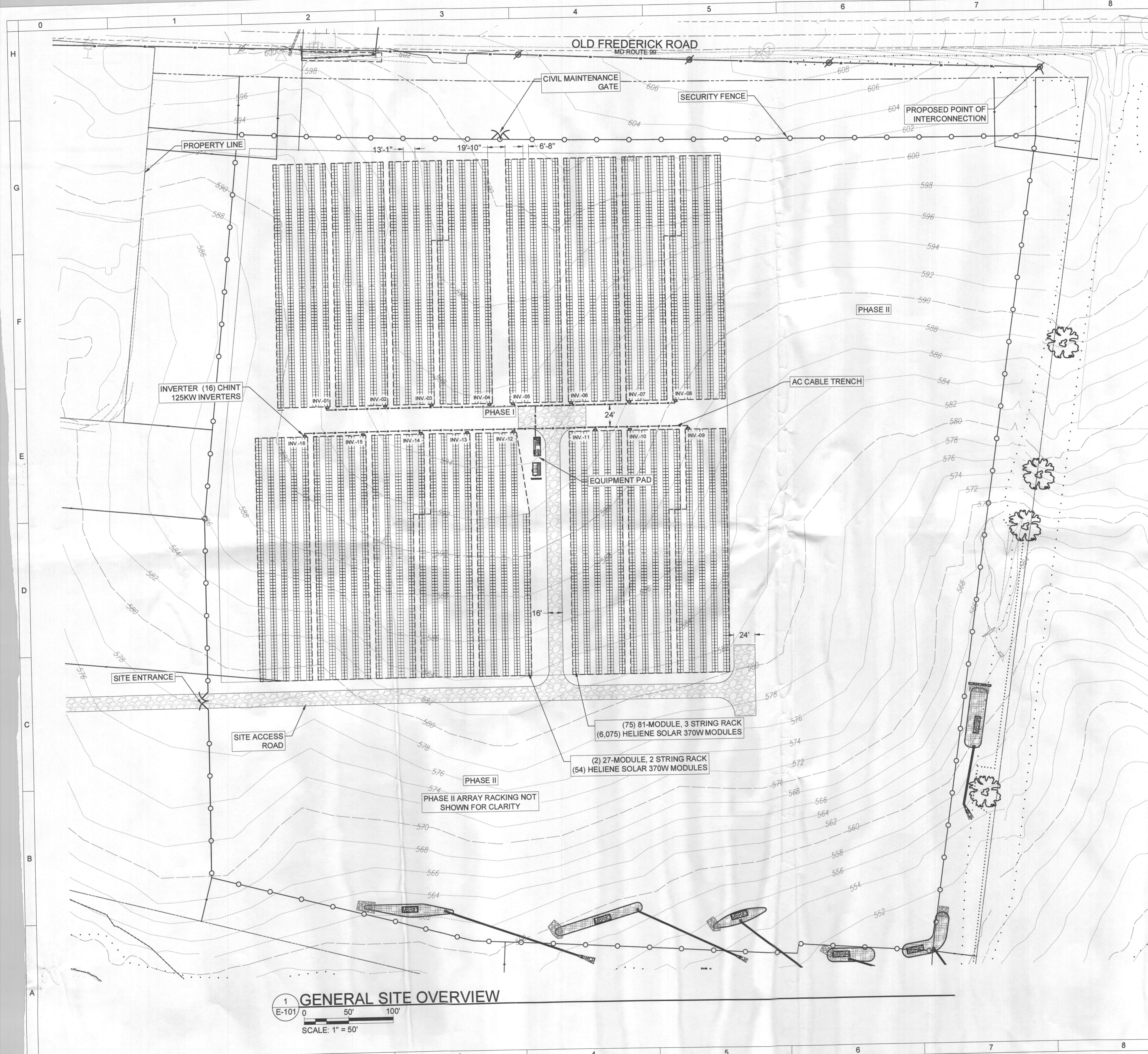
HENRYTON ROAD CSG
SOLAR PROJECT

1825 SAND HILL ROAD,
MARRIOTTSVILLE, MD 21104

DATE: 10/01/19
DRAWN BY: K.M.
CHECKED BY: K.L.

COVER
SHEET

E-001



1 GENERAL SITE OVERVIEW
E-101
SCALE: 1" = 50'

PROJECT SPECIFICATIONS DESIGN SUMMARY TABLE HENRYTON ROAD	
SYSTEM SIZE (AC)	1.900 MW
SYSTEM SIZE (DC)	2.268 MW
DC/AC RATIO	1.194
MEDIUM VOLTAGE TRANSFORMER	2,000 KVA
RACKING SYSTEM	SOLAR FLEXRACK
STRING SIZE	27
STRING COUNT	227
INVERTER(S)	CHINT-SCA 125KW
INVERTER QUANTITY	16
MODULE MAKE	HELIENE
MODULE MODEL	370-72M
MODULE STC RATING	370W
MODULE QUANTITY	6,129
RACK CONFIGURATION	(1) HIGH IN PORTRAIT
MODULE ORIENTATION	PORTRAIT
TILT ANGLE	+/-55°
GROUND COVERAGE RATIO	49.17%
AZIMUTH	180°
LATITUDE	39.321007
LONGITUDE	-76.925859
CODE CYCLE	2017

Approved
BZ0002180
R1E 8/6/2020

EXISTING CONDITIONS	NEW CONDITIONS
100 YR FLOODPLAIN	BASIN AREA
BUILDING SETBACK	CONCRETE EQUIPMENT PAD
EDGE OF PAVEMENT	GRAVEL ACCESS ROAD
EXISTING EASEMENT	LIMITS OF DISTURBANCE
EXISTING FENCE	PROJECT AREA
EXISTING ELECTRICAL	EASEMENT
EXISTING TREELINE LEFT	OVERHEAD ELECTRICAL
JURISDICTIONAL DITCH	UNDERGROUND ELECTRICAL
JURISDICTIONAL RIPARIAN BUFFER - 50'	SECURITY FENCE
JURISDICTIONAL STREAM	SILT FENCE
JURISDICTIONAL WETLAND	VEGETATIVE BUFFER
MAJOR CONTOURS	
MINOR CONTOURS	
PROPERTY BOUNDARY	
PROPERTY (ADJOINER)	
RAILROAD	
RIGHT-OF-WAY	
STREET CENTERLINE	
STRUCTURES	

RECEIVED
JUL 20 2020
LICENSES & PERMITS
DIVISION

GRAPHIC SCALE
0 50' 100'
SCALE: 1" = 50'

NORTH
N

1819 Peachtree Rd. NE - Suite 100
Atlanta, GA 30309 (404) 351-8175

America
ENERGY

PERMIT DRAWING - NOT
RELEASED FOR CONSTRUCTION
CERTIFICATION

PROFESSIONAL CERTIFICATION: I HEREBY
CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND
THAT I AM A DAILY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO.43266. EXPIRATION DATE:
JANUARY 15, 2021.

CONSULTANT

AVOCA
ENGINEERS
ARCHITECTS

242 OLD NEW BRUNSWICK ROAD PISCATAWAY NJ 08854
PHONE (732) 465-1002 FAX (732) 465-1005
MARYLAND ENGINEERING FIRM REGISTRATION NO. 64989

REVISIONS

NO.	DATE	DESCRIPTION
1	12/04/19	REVISED FENCE LINE BETWEEN PHASE I AND II
2	12/09/19	REVISED FOR PERMIT
3	12/09/19	PROJECT NAME CHANGE ONLY
4	12/09/19	REVISED PER COMMENTS: ADDED AC TRACKER POWER
5	02/14/20	REVISED TRACKER MANUFACTURER
6	03/23/20	REVISED TRACKER MANUFACTURER
7	05/20/20	ISSUED FOR PERMIT
8	06/11/20	REVISED GRAVEL TURN-AROUND AREAS
9	06/11/20	PLT STAMP - CLEARLY 07/03/20 15:32 P.M. E-01 GENERAL SITE OVERVIEW.DWG

PROJECT: 19-BU-118

HENRYTON ROAD CSG
SOLAR PROJECT

1825 SAND HILL ROAD,
MARRIOTTSTVILLE, MD 21104

DATE: 10/01/19
DRAWN BY: EG
CHECKED BY: K.L.

GENERAL SITE
OVERVIEW
E-101