Caroline County
Department of Planning & Codes

Health & Public Services Bldg.
403 South 7th Street, Suite 210
Denton, Maryland 21629-1335
Telephone: 410-479-8100
Facsimile: 410-479-4187

Crystal L. Dadds, Director
Leslie Grunden, Assistant Director of Planning
Matt Kaczynski, Assistant Director of Development Review

Planning Commission Staff Report, August 21, 2024

Staff Contact: Matt Kaczynski, Development Review Coordinator

Item: Cherrywood Solar I, LLC - Commercial Solar Energy System and a Power Substation *(Final Major Site Plan)*

Summary:
The applicant, Cherrywood Solar I, LLC, has submitted a Major Site Plan Application for a Large-Scale Commercial Solar Energy System and a Power Substation. The project consists of a 145 Megawatt solar energy system that will encompass approximately 1,059 acres. The project is located across 14 parcels in the vicinity of the Town of Greensboro and Town of Goldsboro; along Greensboro Road, Bridgetown Road and Jackson Lane.

The proposed use of a Commercial Solar Energy System and a Power Substation requires a Major Site Plan Approval from the Planning Commission and a Special Use Exception Approval from the Board of Zoning Appeals (BZA). The Planning Commission reviewed the Preliminary Major Site Plan at the May 9, 2018 meeting and made a positive recommendation for the applicant to proceed to the Board of Zoning Appeals. The BZA held a public hearing for the Special Use Exception Application in conjunction with this project on August 16, 2018 and unanimously approved the application. The applicant is now seeking a Final Site Plan Approval.

It should be noted that Staff has provided a review letter to the applicant's agent as of August 16, 2024. The comments listed, and attached herein, are outstanding items that must be addressed prior to the Planning Director issuing a written notice of final site plan approval and/or prior to the issuance of any Zoning Certificate and/or Building Permit.

Staff Comments:
Chapter 175-122 of the County Code outlines the review process for Site Plan Applications. As part of the review process for Major Site Plan Applications, the Department is required to prepare a report to the Planning Commission which addresses the following:

(1) Compliance with the Comprehensive Plan;
(2) Compliance with design standards;
(3) Access and traffic circulation;
(4) Effects on surrounding development;
(5) Effect on community facilities;
(6) Impact on historic resources;
(7) Open space; and
(8) Available utilities.

(1) The Comprehensive Plan is used as a guidance document for protecting public health, safety and welfare by projecting population needs and making recommendations to ensure that those needs are met. The plan provides the framework for land use regulations by setting goals and objectives for the vision the County wants for the future. A key component used for setting goals and objectives for the Comprehensive Plan is the use of zoning regulations. Caroline County zoning regulations are based on approved zoning district boundaries. Each Zoning District has permitted uses which are identified within the Zoning Chapter of the County Code. The proposed uses specified by the applicant are allowable uses within the Zoning District in which they are located, which is the R Rural Zoning District. Staff believes that the specific uses proposed complies with the County zoning regulations and meets the intent of the Comprehensive Plan.

(2) Chapter 175-123 of the County Code specifies the minimum information required to be shown on the site plan in accordance with a Site Plan Application. The applicant must also comply with 175-46 of the County Code, which calls for specific information related to Commercial Solar Energy Systems. All site plan related comments found in the attached review letter must be addressed in order to be in compliance with the County Code.

(3) Based on the information provided, staff does not believe that the proposed uses will have any significant impacts on existing infrastructure or cause significant increases in traffic which would affect neighboring properties.

(4) The department has not received any information or complaints from neighboring property owners regarding the properties. It is the staff's opinion that the proposed use will have no effect on surrounding development and that neighboring property owners will still be able to peacefully use and enjoy their properties without any undue hardship from the proposed use.

(5) There have been no questions or concerns raised by staff or any members of the Technical Advisory Committee regarding the proposed uses. Staff believe the proposed use will have no impacts on community facilities.

(6) The Sherman Councell House, currently located at 15045 Greensboro Road is listed on the Maryland Inventory of Historic Properties. The house is proposed to be removed as part of the project. The Maryland Historic Trust reviewed the project as part of the CPCN review and provided comments and conditions which have been met with the proposed site plan. There has been no indication of any other historic resources impacted by the project.

(7) The proposed use does not have any open space requirements, nor have any impact on existing open space in the general vicinity of the project.

(8) There is no indication that the proposed use will have any impacts on any public utilities located in the general vicinity of the project, as the addition of the power substation will meet the needs of Delmarva Power.

Staff has reviewed the application and supporting documents and has found that the proposed use of a Commercial Solar Energy System and a Power Substation conforms to the intent of the Zoning Chapter. It is the staff's opinion that the proposed site plan will be in compliance with the design standards associated with Major Site Plan Applications if all comments in the attached review letter are addressed.

Staff recommends that all comments listed in the attached review letter, dated August 16, 2024, be addressed prior to the Planning Director issuing a written notice of final site plan approval.

Recommended Action:
The Planning Commission must review and approve, approve with conditions, or deny the Major Site Plan Application.

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To: Cherrywood Solar I, LLC
c/o NextEra Energy Resources, LLC
Jason Andrews
700 Universe Blvd, Juno Beach, Fl 33408

Date: August 16, 2024

From: Matt Kaczynski

Re: Review of documents submitted for a Solar Energy System and Power Substation

Please read through the comments and make all the necessary documentation changes.

- The property information located on Sheet T-1 and other tables throughout the plan set must be updated to reflect current State Department Assessment and Taxation information for Map 10 Grid 18 Parcel 11, as this property has transferred to Cherrywood Solar I, LLC.
- Upon review, it was determined that the owner of Map 11 Grid 4 Parcel 53 has constructed additions to the existing house without any zoning certificates and/or building permits. Zoning certificates and/or building permits must be issued for these additions prior to final approval of the site plan.
- There are multiple Lease Agreements recorded in the Land Records which must be modified. These Lease Agreements must be revised, recorded in the Land Records and copies provided to the County prior to notice of approval of the final site plan. Listed below are the Parcels involved which require updates to their Lease Agreements.

  Tax Map 15 Grid 7 Parcel 67-This lease agreement also includes an additional parcel which is no longer included in the project (Tax Map 15 Grid 7 Parcel 68). Lease agreements should only include parcels which have been shown on the site plan set.

  Tax Map 11 Grid 9 Parcel 56, Tax Map 11 Grid 4 Parcel 52, Tax Map 11 Grid 4 Parcel 53, Tax Map 11 Grid 5 Parcel 158-These parcels are included on two separate Lease Agreements which must be revised as parcel boundaries have been modified and additional parcels created since the recordation of the agreements. Lease Agreements will need to reflect all parcel changes including newly created parcels which are part of the project.

- The most recent version of the decommissioning plan (Dated July 18, 2024) must be updated to include costs associated with the removal of the vegetated landscape buffers. A financial security to cover the cost of decommissioning must be provided upon Caroline County and Public Service Commission approval of the revised decommissioning plan. Salvage costs associated with decommissioning cannot be used to offset the required financial security.

- A Copy of the NPDES General Permit must be provided prior to the issuance of any Zoning Certificate and/or Building Permit.
- The proposed plans do not comply with Condition No. 12 of the CPCN as outlined in the Department of Natural Resources (DNR), Power Plant Research Program (PPRP) Revised Recommended Conditions dated March 11, 2022. The following items below must be addressed for compliance with this condition.

  Condition 12d. states that *"The existing forest areas on parcels that are purchased and owned by Cherrywood Solar or its successors, specifically including approximately 20.21 acres of forest located on parcels that are adjacent to the Choptank River (Map 15 Parcel 66 and Map 11 Parcel 51), shall be placed in permanent Forest Conservation easements approved by DNR.*

  The Department of Natural Resources has confirmed that Forest Conservation Requirements for CPCN projects do not default to State Review, but require local review and approval. A Forest Conservation Application, Forest Stand Delineation, Forest Conservation Plan must be submitted for review and approval.

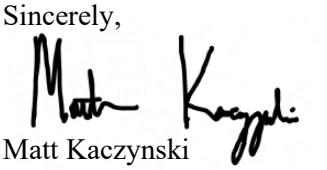
- A Stormwater Maintenance and Inspection Agreement will be required. A template for this agreement will be sent separately. A surety will also be required in the form of a bond or irrevocable letter of credit in the amount of 115% of the estimated construction costs of all stormwater facilities.
- The quantity of wildflower/grasses provided in the landscape cost estimate does not match the quantity provided in the landscape schedules within the plan set.
- There are various sheets within the plan set that have two limit of disturbance (LOD) lines depicted; one LOD appears to be from the previous solar array layout, along with the LOD for the current solar array layout. It should also be noted that the LOD is not consistent between the DBF site plan set and the grading plan supplemental sheets prepared by EVS.
- The power substation layout depicted on the EVS plan set does not match the current layout as designed and depicted on the DBF plan set.
- There are various labels throughout the plan set which need to be updated, as they correspond with the previous solar array layout. Please see labels for distances to solar arrays, fencing, gates, etc.
- The hatched areas depicting the subject parcels on Sheet OV-1 extends outside the boundaries of the parcels.
- The proposed retention pond from the previous stormwater design is still shown on Sheet C-2. This facility is no longer proposed; therefore, must be removed from the plans.
- The revised solar arrays on Map 10 Parcel 25 and Map 11 Parcel 53 are not located 200-feet from the existing dwelling. A setback modification agreement with the owners would have to be executed to allow this reduction of the required setback.
- A scale bar is missing on the following sheets: CS-1 thru CS-5, SWM-4 thru SWM-11 and ESC-5.
- The staging/layout area is not depicted on sheet EC-5. The stockpile area depicted on this sheet should be included within the LOD.
- The stockpile area for the power substation is not shown on sheet ESC-2.
- There is a directional bore area shown on sheet C-213 (EVS plans) that is not shown on the DBF plans.
- The portion of the staging/layout area shown on sheet C-217 (EVS plans) that is depicted as an area with solar arrays on the DBF plans. Please clarify whether this area is for solar arrays or an area set aside for staging. Adjust plans accordingly.
- The Road Use and Maintenance Agreement must be updated as previous county staff is listed in the document. Remove Kaleigh Leager, Executive Assistant and replace with Cyndy Watts, Administrative Assistant. Also, page 3, section 3a mentions a County representative, which would be from Public Works. The phone number must be updated to reflect Public Works correct phone

number. Exhibit A for the document does not clearly depict the transportation routes. Please revise accordingly.

- The Solar Landscape Maintenance Agreement must be updated. The properties table used in the document must be revised, as ownership for Map 10, Grid 18, Parcel 11 has transferred to Cherrywood Solar I, LLC. Also, the County has revised the agreement template to include language for surety requirements and for inspection procedures. The revised template will be sent separately.

If you have any questions or if I can provide any assistance, please feel free to call or email me at your convenience.

Sincerely,



Matt Kaczynski
Development Review Coordinator

CHERRYWOOD SOLAR PROJECT

CHERRYWOOD SOLAR I, LLC
CAROLINE COUNTY, MARYLAND

Tax Map 10; Parcels 11 & 25
Tax Map 11; Parcels 7, 51, 52, 53, 56 & 158
Tax Map 14; Parcels 8 & 16
Tax Map 15; Parcels 66 & 67

JOB NO. 2390R001.A01
MARCH 2018

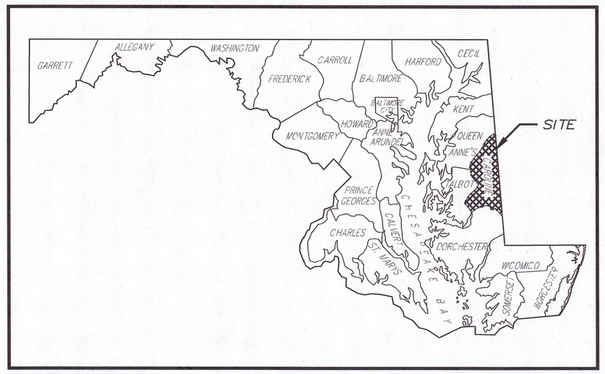
PURPOSE STATEMENT:

THESE PLANS SHALL SERVE AS THE CONCEPT PLAN FOR CONDITIONAL USE AND SITE PLAN APPROVAL.
THE PURPOSE OF THESE PLANS ARE TO SATISFY REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES WHICH INCLUDE:

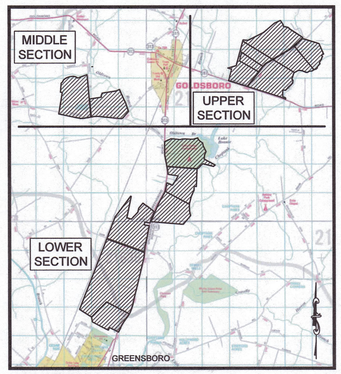
1. MARYLAND PUBLIC SERVICE COMMISSION (PSC) CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (CPCN)
2. MARYLAND DEPARTMENT OF THE ENVIRONMENT
   - 2.1. WETLANDS
   - 2.2. NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY
3. MARYLAND DEPARTMENT OF NATURAL RESOURCES
   - 3.1. FOREST CONSERVATION ACT
   - 3.2. WILDLIFE HABITAT
4. MARYLAND HISTORIC TRUST
   - 4.1. HERITAGE REVIEW
5. CAROLINE COUNTY
   - 5.1. CONDITIONAL USE AND SITE PLAN
   - 5.2. ELECTRICAL AND BUILDING PERMIT
   - 5.3. STORMWATER MANAGEMENT
   - 5.4. EROSION AND SEDIMENT CONTROL
   - 5.5. CONSTRUCTION DRAWING PLAN
   - 5.6. FOREST CONSERVATION

GENERAL NOTES:

1. THERE ARE JURISDICTIONAL NON-TIDAL WETLANDS (NTW) ON THIS SITE; 35' BUFFER PROVIDED WHICH EXCEEDS STATE REQUIRED 25' BUFFER.
2. THIS SITE IS PARTIALLY WITHIN FLOOD ZONE "A". PANEL NUMBER 24011C0095D (PANEL 95 OF 375), EFFECTIVE DATE JANUARY 16, 2015. FLOOD ZONE "A" IS 1% ANNUAL CHANCE OF FLOOD. NO SOLAR PANEL BEING PLACED IN THE FLOOD ZONE.
3. THIS SITE IS NOT WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
4. JURISDICTIONAL NON-TIDAL WETLANDS SHOWN HEREON LOCATED BY ECS MID-ATLANTIC, LLC ON OR ABOUT DECEMBER 2017.
5. PROPERTY LINE DATA AND PHYSICAL FEATURES WERE OBTAINED FROM STATE GIS WEBSITES. ELEVATION DATA WAS OBTAINED FROM MD IMAP, CAROLINE COUNTY 2013 ELEVATION MODEL.
   HORIZONTAL DATUM: MARYLAND STATE PLANE; VERTICAL DATUM: NAVD 88.
6. All WORK SHALL BE DONE IN ACCORDANCE ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES INCLUDING BUT NOT LIMITED TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND 2017 NATIONAL ELECTRIC CODE.
7. SITE LIGHTING DESIGN TO BE COMPLETED AT TIME OF CONSTRUCTION DOCUMENT APPROVAL AND WILL MEET REGULATORY REQUIREMENTS.
8. IMPACTS OF NOISE DURING CONSTRUCTION: MARYLAND NOISE POLLUTION STANDARDS AS REFERENCED IN COMAR 26.02.03 PROVIDE CERTAIN EXCEPTIONS FOR NOISE SOURCES AND NOISE GENERATING ACTIVITIES. DURING CONSTRUCTION OF THIS FACILITY, ALL NOISE SHALL BE MAINTAINED BELOW THE AVERAGE DAILY NINETY DECIBEL (90 DB) RATING AT THE PROPERTY LINES.
9. IMPACTS OF NOISE DURING OPERATION: THE ONLY NOISE GENERATED FROM THE ELECTRICAL EQUIPMENT AT THE FACILITY WILL BE FROM THE TRANSFORMERS AND INVERTERS AT EACH PAD. AS UTILITY SCALE SOLAR GENERATING POWER FACILITIES BECOME MORE COMMON, MORE STUDIES HAVE BEEN DONE DEMONSTRATING THE LOW IMPACT OF NOISE DURING OPERATION. TYPICAL TRANSFORMERS USED FOR A SOLAR FACILITY HAVE A 50DB RATING AT ONE HUNDRED FEET (100'). THE PROJECT ANTICIPATES A LOW LEVEL NOISE OF INTERIOR TO THE PERIMETER FENCE. NOISE REDUCTION OCCURS AT 6DB FOR EVERY ONE HUNDRED FEET (100') OF ADDED DISTANCE.
10. ENTRANCE PERMITS TO BE OBTAINED FROM THE CAROLINE COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION AND STATE HIGHWAY ADMINISTRATION PRIOR TO CONSTRUCTION OF ANY TEMPORARY OR PERMANENT ENTRANCES WITHIN COUNTY RIGHT-OF-WAY.
11. CONTACT CAROLINE SOIL CONSERVATION DISTRICT AT 410-479-1202 EXT. 3 AT LEAST 2 WEEKS IN ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW AND BECOME FAMILIAR WITH THE PLANS AND THE NPDES LOG BOOK (TO BE COMPLETED WEEKLY AND AFTER EACH ½" RAIN EVENT).
12. THERE ARE NO NON-CONFORMITIES ASSOCIATED WITH THIS PROJECT.
13. NO MAJOR GRADING REQUIRED. ALL EXISTING FURROWS, FARM LANES, PIVOT TRACKS, ETC. WILL BE DISTURBED DURING CONSTRUCTION AND SHALL BE RESTORED AND SEEDED FOR ESTABLISHMENT OF VEGETATIVE COVER AS REQUIRED TO PROVIDE FUNCTIONAL SHEETFLOW AND INFILTRATION. CONTRACTOR SHALL SMOOTH EXISTING GRADE AS REQUIRED TO ELIMINATE CONCENTRATED SHEETFLOW, ACCOMODATE RACKING SLOPE TOLERANCES, AND MAINTAIN PERVIOUS GRADE. PROPER MAINTENANCE SHALL BE COMPLETED AFTER COMPLETION OF CONSTRUCTION TO MAINTAIN FUNCTIONAL SHEETFLOW.
14. ALL SOLVENTS USED FOR MAINTENANCE AND CLEANING SHALL BE BIODEGRADABLE AND ANY BROKEN OR WASTE MATERIAL SHALL BE REMOVED FROM THE SITE WITHIN 60 DAYS.
15. ALL EXISTING WELLS AND SEPTIC SYSTEMS WITHIN THE LIMIT OF DISTURBANCE TO BE PROPERLY ABANDONED.
16. ALL EASEMENTS NECESSARY FOR INTERCONNECTION WILL BE DEPICTED ON THE SITE PLAN PRIOR TO FINAL APPROVAL.
17. EXISTING CONDITIONS RELATIVE TO UNDERGROUND DRAINAGE TILES HAS BEEN OBTAINED FROM THE LAND OWNERS AND SOIL CONSERVATION DISTRICT AS SHOWN ON THE PLANS. TO THE EXTENT NEEDED DURING CONSTRUCTION GROUND PENETRATING RADAR AND FIELD VERIFICATION MAY BE USED TO CONFIRM EXISTING DRAINAGE LOCATIONS. ALL DRAINAGE TILES DAMAGED WILL BE REPAIRED OR REPLACED AS REQUIRED TO MAINTAIN FUNCTIONALITY OF THE DRAIN TILE SYSTEM.
18. ALL PARTICIPATING PROPERTIES ARE ZONED RURAL WITH THE FOLLOWING BUILDING RESTRICTION LINES; FRONT - 40 FEET, SIDE - 25 FEET, REAR - 30 FEET. NOTE SETBACKS FROM PARTICIPATING LANDOWNERS ARE WAIVED.



VICINITY MAP
Not to Scale



LOCATION MAP
Scale: 1" = 5000'
0' 5000'
Copyright ADC The Map People
Permitted Use No. 12312014

SITE DATA

DEVELOPER/APPLICANT	SOLAR ARRAY SUMMARY	
JASON ANDREWS, PROJECT DIRECTOR RENEWABLE DEVELOPMENT CHERRYWOOD SOLAR I, LLC 700 UNIVERSE BOULEVARD JUNO BEACH, FL 33408 TEL: 561-365-5956	NUMBER OF MODULES:	334,224 (ESTIMATE)
	MODULE MANUFACTURER & MODEL:	TRINA TSM-NEG19RC.20 OR EQUIVALENT 93.86" Length x 44.65" Width
	NUMBER OF INVERTERS:	39
	MANUFACTURER OF INVERTER:	GENERAL ELECTRIC 1566 FLEXINVERTER SOLAR POWER STATION OR EQUIVALENT
	TOTAL DC RATING:	203 MW (ESTIMATE)
	ANTICIPATED AC RATING:	145 MW (ESTIMATE)

ENGINEER
DAVIS, BOWEN & FRIEDEL, INC. 106 NORTH WASHINGTON STREET EASTON, MD 21601 TEL: 410-770-4744 FAX: 410-770-4515 EMAIL: jpl@dbfinc.com

PROPERTY INFORMATION

Owner	Owner Address	Tax Map	Grid	Parcel	Site Address	Deed Reference	Zoning	Existing Land Use	Total Parcel Size (Acres)	Limit of Solar Construction (Acres)	Type of Vegetation Cover		
											Pasture	Woods	Tillable
John H Brown III	15833 Jackson Lane Goldsboro, MD 21636	0011	0005	0158	15833 Jackson Lane	00948/00284	R	Ag	54.32	9.31	0%	50%	50%
John H Brown Jr John H Brown III	15781 Jackson Lane Goldsboro, MD 21636	0011	0004	0052	Jackson Lane	01201/00222	R	Ag	107.50	57.24	0%	24%	76%
John H Brown Jr John H Brown III	15781 Jackson Lane Goldsboro, MD 21636	0011	0004	0053	15781 Jackson Lane	01201/00214	R	Ag	64.00	28.71	0%	30%	70%
Joshua D Brown	15642 Jackson Lane Goldsboro, MD 21636	0011	0009	0056, Lot 1	15642 Jackson Lane	01655/00043	R	Ag	20.00	2.57	0%	16%	84%
Joshua D Brown	15642 Jackson Lane Goldsboro, MD 21636	0011	0009	0056, Lot 2	Jackson Lane	01655/00050	R	Ag	88.30	38.15	0%	16%	84%
John H Brown Jr	15781 Jackson Lane, Goldsboro, MD 21636	0011	0009	0056	Jackson Lane	01201/00218	R	Ag	101.70	63.66	0%	16%	84%
Ronald Spiering	25802 Bridgetown Road Goldsboro, MD 21636	0010	0018	0011	25970 Bridgetown Road	00240/00688	R	Ag	103.16	44.67	0%	1%	99%
Ronald Spiering	25802 Bridgetown Road Goldsboro, MD 21636	0010	0017	0025	25802 Bridgetown Road	00240/00688	R	Ag	148.75	29.44	0%	25%	75%
Cherrywood Solar I LLC	700 Universe Boulevard N Palm Beach, FL 33408	0011	0020	0051	Greensboro Road	01637/00143	R	Ag	90.44	32.88	0%	14%	86%
W Sherman Councell III	PO Box 92 Goldsboro, MD 21636	0011	0020	0007	15045 Greensboro Road	00409/00168	R	Ag	125.79	82.49	0%	5%	95%
Greensboro Land Enterprises LLC	988 Howard Ave STE 200, Burlingame CA 94010	0014	0024	0016	Greensboro Road	01292/00193	R	Ag	72.69	48.58	0%	0%	100%
Greensboro Land Enterprises LLC	988 Howard Ave STE 200, Burlingame CA 94010	0014	0012	0008	14267 Greensboro Road	01292/00193	R	Ag	336.18	241.11	0%	0%	100%
Cherrywood Solar I LLC	700 Universe Boulevard N Palm Beach, FL 33408	0015	0001	0066	14697 Greensboro Road	01662/00372	R	Ag	89.40	38.83	0%	11%	89%
John H Brown Trustee Robert E Jarrell Trustee	S N First Street, Denton, MD 21629	0015	0007	0067	Greensboro Road	01078/00157	R	Ag	130.99	20.21	0%	50%	50%

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- ROAD CENTERLINE
- BUILDING RESTRICTION LINE
- 100 YEAR FLOOD PLAIN
- LIMIT OF WETLANDS
- DITCH MAINTENANCE EASEMENT
- WETLAND/STREAM BUFFER W/ SILT FENCE
- 35' WOODSLINE BUFFER
- EXISTING OVERHEAD ELECTRIC
- EXISTING UTILITY EASEMENT
- EXISTING WOODS
- LIMIT OF DISTURBANCE (WITH SILT FENCE)
- PROPOSED 12' WIDE IMPROVED ROADWAY
- PROPOSED 20' LANDSCAPE BUFFER - FULL SCREENING
- PROPOSED 20' LANDSCAPE BUFFER - MODERATE SCREENING
- PROPOSED 50' LANDSCAPE BUFFER - INTENSIVE SCREENING
- PROPOSED 20' LANDSCAPE BUFFER - FULL POLLINATOR HABITAT
- PROPOSED POLLINATOR MIX
- PROPOSED 10' GRASS PATH
- PROPOSED FENCE
- PROPOSED GATE
- PROPOSED CULVERT
- N/F — NOW OR FORMERLY
- GPS-LOCATED PALUSTRINE WETLANDS
- STREAM / POND
- PROPOSED NATURAL REVEGETATION AREAS
- PROPOSED EASEMENT
- PROPOSED FOREST CONSERVATION AREA
- PROPOSED SOIL STOCKPILE AREA W/ SILT FENCE

SHEET NO.	DESCRIPTION
T-1	COVER SHEET
OV-1	OVERALL SITE PLAN
K-1	KEY PLAN
EX-1	LOWER SECTION EXISTING SITE PLAN
EX-2	MIDDLE SECTION EXISTING SITE PLAN
EX-3	UPPER SECTION EXISTING SITE PLAN
C-1 thru C-6	PROPOSED SITE PLAN
C-7	OFF-SITE UTILITIES
CS-1 thru CS-8	SUBSTATION SITE PLAN
D-1 thru D-2	SITE DETAILS
L-1	LANDSCAPE BUFFER NOTES & DETAILS
L-1 thru L-4	LANDSCAPE BUFFER VISUAL REPRESENTATIONS
ESC-1	SEDIMENT & EROSION CONTROL NOTES & DETAILS
ESC-2	LOWER SECTION PHASING PLAN
ESC-3	MIDDLE SECTION PHASING PLAN
ESC-4	UPPER SECTION PHASING PLAN
ESC-5 thru ESC-6	SUBSTATION EROSION & SEDIMENT CONTROL
SWM-1 thru SWM-3	PRE-DEVELOPMENT
SWM-4 thru SWM-9	POST-DEVELOPMENT
SWM-10	SUBSTATION PRE-DEVELOPMENT
SWM-11	SUBSTATION POST-DEVELOPMENT
C-205	GRADING PLAN - OVERALL SITE PLAN
C-206 thru C-227	GRADING PLAN - SITE PLAN

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. 31100, EXPIRATION DATE: 01/21/2019

ENGINEER CERTIFICATION

"I, JASON P. LOAR, HEREBY CERTIFY THAT I AM A REGISTERED ENGINEER IN THE STATE OF MARYLAND, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF MARYLAND." FURTHER, THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS.

ENGINEER: _____ DATE: _____
31100 — LICENSE NUMBER
01/21/2023 — EXP. DATE

DEVELOPER'S CERTIFICATION

1. I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT, WILL BE DONE PURSUANT TO THE APPROVED SEDIMENT AND EROSION CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO THE BEGINNING THE PROJECT. ADDITIONALLY, THE OWNER OR DEVELOPER SHALL CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE APPROPRIATE ENFORCEMENT AUTHORITY AND/OR MDE.
2. ALL PHASES OF STORMWATER MANAGEMENT CALCULATIONS, STRUCTURE DESIGN AND CONSTRUCTION WILL ADHERE TO CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR STORMWATER MANAGEMENT PLAN FOR THIS SITE. ALL INFORMATION SET FORTH IN THIS PLAN ACCURATELY CONVEYS THIS SITE'S CONDITIONS TO THE BEST OF MY KNOWLEDGE. ALL STRUCTURAL DEVICES FOR STORMWATER MANAGEMENT WILL BE PROTECTED BY PROPER SOIL EROSION AND SEDIMENT CONTROL DEVICES UNTIL ALL CONTRIBUTING AREAS HAVE PASSED FINAL STABILIZATION INSPECTION. UPON COMPLETION OF PROJECT, AN AS-CONSTRUCTED SURVEY, NOTICE OF CONSTRUCTION COMPLETION (NOCC), AND LETTER OF CERTIFICATION MUST BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS. THE PERPETUAL MAINTENANCE OF VEGETATION AND PERFORMANCE OF THE STORMWATER MANAGEMENT PLAN WILL BE SECURED BY A STORMWATER MANAGEMENT MAINTENANCE AND INSPECTION AGREEMENT IN A FORM ACCEPTABLE TO THE COUNTY AND RECORDED AMONG THE LAND RECORDS OF THE COUNTY. ONCE REVIEW IS COMPLETE AND APPROVED, A CERTIFICATE OF OCCUPANCY CAN BE ISSUED.

DEVELOPER SIGNATURE — DEVELOPER NAME, TITLE

APPROVED:
CAROLINE COUNTY

DATE

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. 31100, Expiration Date: 01-21-25.

DAVIS, BOWEN & FRIEDEL, INC.
ARCHITECTS ENGINEERS SURVEYORS
SALISBURY, MARYLAND (410) 543-9091
MILFORD, DELAWARE (302) 424-1441
EASTON, MARYLAND (410) 770-4744

COVER SHEET

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
- OCT 2018: SITE PLAN SUBMITTAL
- OCT 2022: SITE PLAN SUBMITTAL
- FEB 2023: SITE PLAN SUBMITTAL
- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL
- JULY 2024: GRADING PLAN

Date: MARCH 2018
Scale: NONE
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: T-1

L:\2390\001 cherrywood i solar\DESIGN\DWGs\01-2390R T1 Cover.dwg Jul 25, 2024 - 3:20pm lsaj

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RESIDENTIAL DWELLING WITHIN ¼ OF PROPOSED SOLAR PROJECT, TYP.

ESTIMATED ½ MILE BOUNDARY FROM PROPERTY LINE

ESTIMATED ½ MILE BOUNDARY FROM PROPERTY LINE

E. MAIN STREET (MD 480)

GREENSBORO ROAD (MD 313)

DAVIS ROAD

RED BRIDGE ROAD

BRIDGETOWN ROAD

WHARTON ROAD

PARADISE LANE

CHURCH LANE

SHANKTOWN ROAD (MD 307)

JACKSON LANE

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- ESTIMATED 1/4 MILE BOUNDARY FROM PROPERTY LINE
- RESIDENTIAL DWELLING WITHIN 1/4 MILE OF PROPOSED SOLAR PROJECT
- ENTRANCE

0 1000' 2000'

L:\2390\001 cherrywood | solar\DESIGN\DWGs\02-OV-1 Overall Site.dwg Jun 06, 2024 - 6:01pm lapj

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OVERALL SITE PLAN

CHERRYWOOD SOLAR PROJECT

Cherrywood Solar I, LLC

Caroline County, Maryland

Revisions:
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- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	1' = 1000'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	OV-1

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KEY PLAN

CHERRYWOOD SOLAR PROJECT

Cherrywood Solar I, LLC

Caroline County, Maryland

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- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	1' = 1000'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	K-1

N/F
Map 14, Parcel 68
Tom Steel and
Judy Steele
726/333

N/F
Map 14, Parcel 15
James D Martin and
Rebecca A Martin
425/916

CEDAR LN
50' R.O.W

N/F
Map 14, Parcel 146
Ruth N Bautista Vasquez and
Winston J Hernandez Rodriguez
1156/379

N/F
Map 14, Parcel 11
William L Kinnamon and
Gladys S Kinnamon
861/542

N/F
Map 14, Parcel 38
Carol Ann Patchett Trustees and
Brett R Patchett Trustees
1232/225

N/F
Map 302, Parcel 988
Bayland Inc.
684/261

N/F
Map 14, Parcel 82
William P Porter and
Ruth A Porter
214/216

N/F
Map 14, Parcel 77, Lot 2
Joshua M Marshall and
Michelle L Marshall
1069/344

N/F
Map 14, Parcel 77, Lot 1
James E Stubbs Jr and
Karen A Kellowski
974/404

N/F
Map 14, Parcel 73
James F Siebold and
Leslie Ann Siebold
513/646

N/F
Map 14, Parcel 75
James F Seibold and
Leslie Ann Siebold
513/646

N/F
Map 14, Parcel 70
James F Siebold and
Leslie Ann Siebold
513/646

N/F
Map 14, Parcel 71
Milton J Myers
211/126

N/F
Map 300, Parcel 1235
Caroline County Board
of Education
176/386

BUILDING
RESTRICTION
LINE, TYP.

35' WOODS LINE
BUFFER, TYP.

N. MAIN STREET (MD 480)
50' R.O.W.

Map 14, Parcel 16

Map 14, Parcel 8

WETLAND, TYP.

REMNANT OF THE
DELAWARE BAY

100' BUFFER

35' WETLAND
BUFFER, TYP.

N/F
Map 14, Parcel 47
Greensboro Volunteer
Fire Department
1065/99

N/F
Map 15, Parcel 135
Commissioners of
Caroline County
1196/479

GREENSBORO ROAD (MD 313)
50' R.O.W

CRITICAL AREA BOUNDARY

ROAD CENTERLINE, TYP.

Map 15, Parcel 67

N/F
Map 14, Parcel 7
Guy A Murphy Sr and Mary Lou
Murphy
1250/353

N/F
Map 14, Parcel 160
James A Harvey and Lisa W
Harvey
333/966

UNION ROAD
50' R.O.W

N/F
Map 10, Parcel 19
William H Weer Jr and Robert P
Weer
812/808

0 500' 1000'

N/F
Map 15, Parcel 60
Carole A Quimby
230/796

N/F
Map 11, Parcel 159
Joseph Brian Smith and
Penny L Smith
458/967

N/F
Map 11, Parcel 109
William C Griffin
373/521

N/F
Map 11, Parcel 144
David L Mitchell
385/680

N/F
Map 11, Parcel 48
East Star LLC
343/391

N/F
Map 11, Parcel 115
George Melvin Cowgill Jr
and Suzanne H Cowgill
194/479

N/F
Map 11, Parcel 137
William N Smith and
Mary Ellen Smith
209/823

N/F
Map 11, Parcel 18
Myers Skinner and
Patty R Skinner
806/403

N/F
Map 11, Parcel 81
Bryan E Zuravnsky and
Carolyn S Zuravnsky
526/200

BRIDGETOWN ROAD
50' R.O.W

N/F
Map 11, Parcel 49
Selvin Y Cordova and
Nohemi Fuentes De Cordova
1110/395

N/F
Map 11, Parcel 157
William James Yeager Jr
and Mary Alice Yeager
313/918

N/F
Map 11, Parcel 6
Noble T Jarrell Jr and
Mary E Jarrell
179/454

RED BRIDGES ROAD
30' R.O.W

N/F
Map 15, Parcel 15
Leslie A Lepore and
Joan C Lepore
439/858

N/F
Map 15, Parcel 68
John H Brown Trustee and
Robert H Jarrell Trustee
1087/157

N/F
Map 15, Parcel 26
Commissioners of
Caroline County
164/386

DELMARVA POWER &
LIGHT RIGHT-OF-WAY

Map 15, Parcel 66

N/F
Map 11, Parcel 101
Ronald Siamicki and
Janet Siamicki
626/479

Map 11, Parcel 51

Map 11, Parcel 7

N/F
Map 15, Parcel 105
Dennis I Dill and
Mary M Gallagher
589/61

N/F
Map 15, Parcel 67, Lot 5 MSR
Agnes Mellenger and
Agnes Mellenger
502/624

N/F
Map 15, Parcel 67, Lot 4 Part A
James Phillips and Pamela A Phillips
2039/75

N/F
Map 15, Parcel 67, Lot 4 Part B
James Phillips and Pamela A Phillips
2039/75

N/F
Map 11, Parcel 83
George H Caple and
Frieda P Caple
164/675

N/F
Map 11, Parcel 162
Johnathon O Merson and
Tammy Lynn Merson
928/423

L:\2390r001 cherrywood i solar\DESIGN\DWGs\04-2390R EX-1 Lower.dwg Jun 06, 2024 - 6:04pm tabj

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EASTON, MARYLAND (410) 770-4744

EXISTING CONDITIONS PLAN

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
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- FEB 2023: SITE PLAN SUBMITTAL
- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	1' = 500'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	EX-1

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EX-2

Dwg No.:

Proj.No.: 2390R001.A01

Drn.By: SNS

Scale: 1" = 200'

Date: MARCH 2018

Revisions:
- APR. 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
- OCT 2022: SITE PLAN SUBMITTAL
- OCT 2022: SITE PLAN SUBMITTAL
- FEB 2023: SITE PLAN SUBMITTAL
- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL

CHERRYWOOD SOLAR PROJECT

Cherrywood Solar I, LLC

Caroline County, Maryland

DAVIS, BOWEN & FRIEDEL, INC.

ARCHITECTS ENGINEERS SURVEYORS

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EXISTING CONDITIONS PLAN

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N/F
Map 11, Parcel 55
Brian T Johnson and
Sarah E Johnson
1103/111

N/F
Map 11, Parcel 25
Marlene Glaeser
384/542

N/F
Map 11, Parcel 75
Gregory N Kemp and
Nicole L Martin
905/26

N/F
Map 11, Parcel 51
Charles Edward Wothers Jr
183/270

35' WOODS LINE
BUFFER, TYP.

100' STREAM
BUFFER, TYP.

JACKSON LANE
30' R.O.W.

N/F
Map 11, Parcel 113
John H Brown Jr and
John H Brown III
1201/229

N/F
Map 11, Parcel 152
Melanie M Small and
Keith B Small
442/136

N/F
Map 11, Parcel 170, Lot 7R
Eric L Hignutt and
Donna M Hignutt
900/433

Map 11, Parcel 52
Area "A"

Map 11, Parcel 52
Area "B"

Map 11, Parcel 158

N/F
Map 11, Parcel 16
Brian T Johnson and
Sarah E Johnson
1103/111

Map 11, Parcel 5

DELMARVA POWER &
LIGHT RIGHT-OF-WAY

WETLAND, TYP.

35' WETLAND
BUFFER, TYP.

Map 11, Parcel 56
Lot 1

BUILDING
RESTRICTION
LINE, TYP.

Map 11, Parcel 53

N/F
Map 11, Parcel 147, Lot 3
East Star LLC
302/579

Map 11, Parcel 163

N/F
Map 11, Parcel 147, Lot 4
East Star LLC
302/579

Map 11, Parcel 135

Map 11, Parcel 58

Map 11, Parcel 56
Lot 2

Map 11, Parcel 56

N/F
Map 11, Parcel 59
Patricia Gail Callahan
Trustee
409/114

DITCH
MAINTENANCE
EASEMENT, TYP.

N/F
Map 11, Parcel 49
East Star LLC
452/647

JACKSON LANE
30' R.O.W.

N/F
Map 11, Parcel 52
East Star LLC
302/579

N/F
Map 11, Parcel 22
East Star LLC
302/579

SANDTOWN ROAD (MD 287)
40' R.O.W.

N/F
Map 11, Parcel 162
Johnathon O Merson and
Tammy Lynn Merson
929/423

ROAD CENTERLINE, TYP.

N/F
Map 11, Parcel 118
William Sherman Councell III
and Sherry L Councell
204/223

N/F
Map 11, Parcel 20
East Star LLC
302/579

N/F
Map 11, Parcel 57
William Sherman Councell III
and Sherry L Councell
218/372

0 300' 600'

L:\2390\001 cherrywood i solar\DESIGN\DWGs\06-2390R EX-3 Upper.dwg Jun 06, 2024 - 6:07pm lapj

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EXISTING CONDITIONS PLAN

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
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- FEB 2023: SITE PLAN SUBMITTAL
- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	1" = 300'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	EX-3

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SITE PLAN

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- 1 APRIL 2018: COUNTY COMMENTS
- 2 JUNE 2018: COUNTY COMMENTS
- 3 OCT 2018: SITE PLAN SUBMITTAL
- 4 OCT 2022: SITE PLAN SUBMITTAL
- 5 FEB 2023: SITE PLAN SUBMITTAL
- 6 OCT 2023: SITE PLAN SUBMITTAL
- 7 APR 2024: SITE PLAN SUBMITTAL
- 8 JUNE 2024: SITE PLAN SUBMITTAL

Date: MARCH 2018
Scale: 1" = 200'
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: C-1

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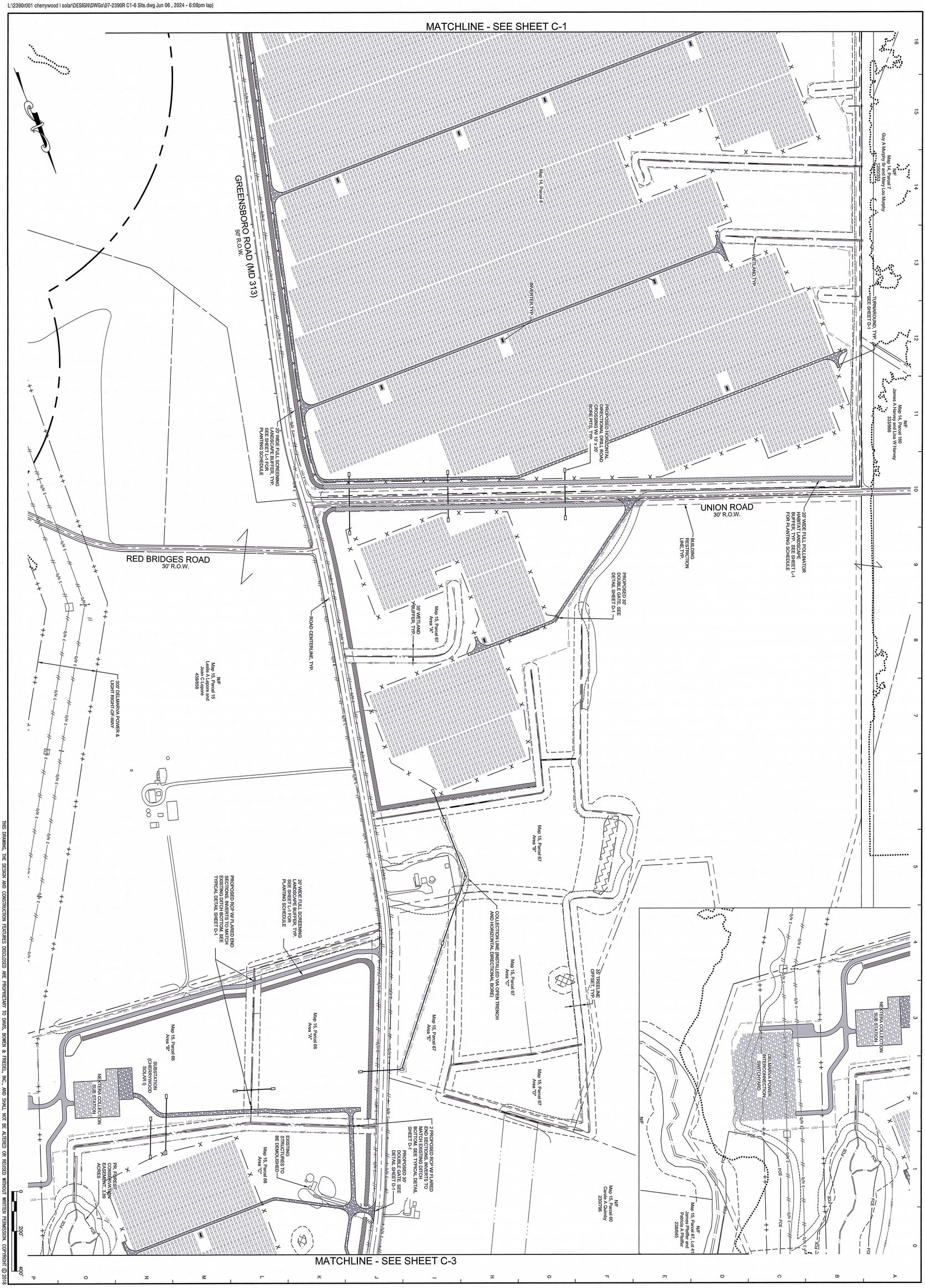

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C-2

Date: MARCH 2018
Scale: 1" = 200'
Dsn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.:

Revisions:
⚠ NOV 2018: COUNTY COMMENTS
⚠ JUNE 2019: SITE PLAN SUBMITTAL
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⚠ OCT 2023: SITE PLAN SUBMITTAL
⚠ APR 2024: SITE PLAN SUBMITTAL
⚠ JUNE 2024: SITE PLAN SUBMITTAL

CHERRYWOOD SOLAR PROJECT

Cherrywood Solar I, LLC

Caroline County, Maryland

DAVIS, BOWEN & FRIEDEL, INC.
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SITE PLAN

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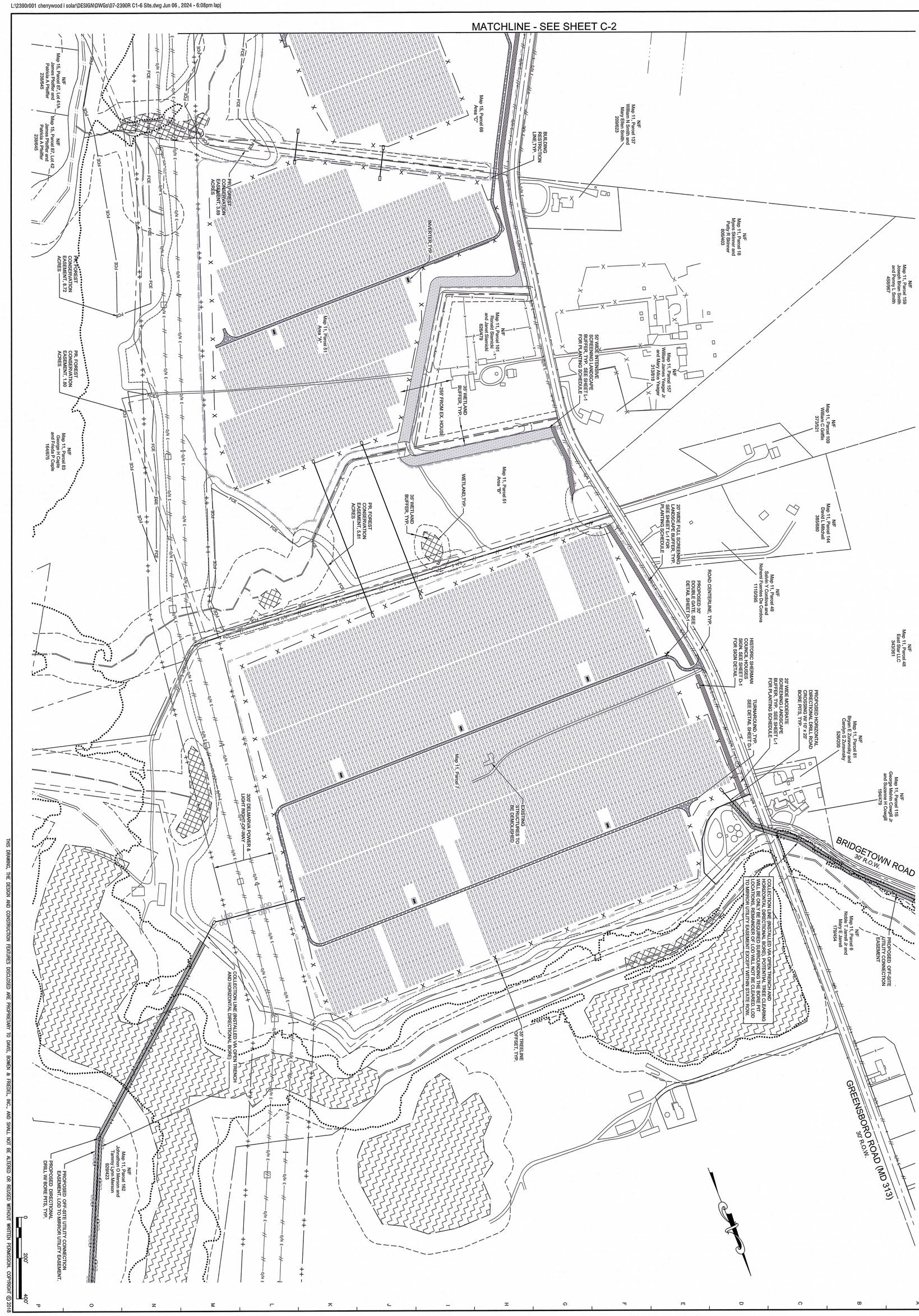

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- JUNE 2024: SITE PLAN SUBMITTAL

Date: MARCH 2018
Scale: 1" = 200'
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: C-3

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

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SITE PLAN

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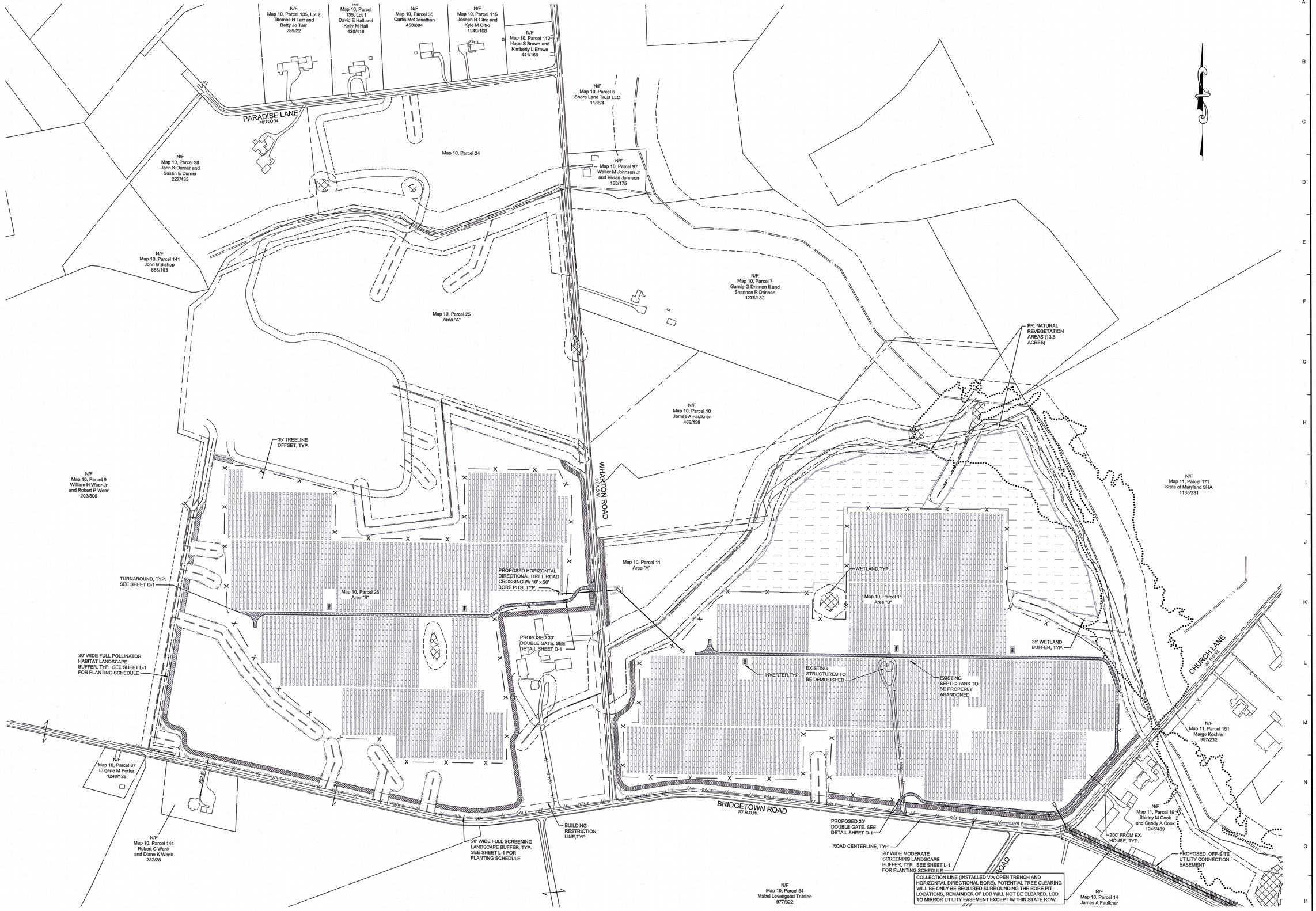

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SITE PLAN

CHERRYWOOD SOLAR PROJECT

Cherrywood Solar I, LLC

Caroline County, Maryland

Revisions:

- ⚠1 APRIL 2018: COUNTY COMMENTS
- ⚠2 JUNE 2018: COUNTY COMMENTS
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- ⚠5 FEB 2023: SITE PLAN SUBMITTAL
- ⚠6 OCT 2023: SITE PLAN SUBMITTAL
- ⚠7 APR 2024: SITE PLAN SUBMITTAL
- ⚠8 JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	1' = 200'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	C-4

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MATCHLINE - SEE SHEET C-6

N/F
Map 11, Parcel 16
Brian T Johnson and
Sarah E Johnson
1103/111

35' TREELINE OFFSET, TYP.

Map 11, Parcel 5

WETLAND,TYP.

35' WETLAND BUFFER, TYP.

Map 11, Parcel 56
Lot 1

PROPOSED 30' DOUBLE GATE. SEE DETAIL SHEET D-1

20' WIDE MODERATE SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

PROPOSED 30' DOUBLE GATE. SEE DETAIL SHEET D-1

Map 11, Parcel 56

TURNAROUND, TYP. SEE DETAIL SHEET D-1

N/F
Map 11, Parcel 22
East Star LLC
302/579

BUILDING RESTRICTION LINE,TYP.

50' WIDE INTENSIVE SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

Map 11, Parcel 163

INVERTER,TYP.

30' R.O.W.

Map 11, Parcel 56
Lot 2

JACKSON LANE
30' R.O.W.

Map 11, Parcel 58

Map 11, Parcel 135

N/F
Map 11, Parcel 20
East Star LLC
302/579

SANDTOWN ROAD (MD 287)
40' R.O.W.

20' WIDE FULL SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

PROPOSED HORIZONTAL DIRECTIONAL DRILL ROAD CROSSING W/ 10' x 20' BORE PITS, TYP.

20' WIDE FULL POLLINATOR HABITAT LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

ROAD CENTERLINE, TYP.

N/F
Map 11, Parcel 59
Patricia Gail
Callahan Trustee
409/114

N/F
Map 11, Parcel 57
William Sherman Councell III
and Sherry L Councell
218/372

N/F
Map 11, Parcel 49
East Star LLC
452/647

N/F
Map 11, Parcel 162
Johnathon O Merson and
Tammy Lynn Merson
929/423

N/F
Map 11, Parcel 118
William Sherman Councell
III and Sherry L Councell
204/223

COLLECTION LINE (INSTALLED VIA OPEN TRENCH AND HORIZONTAL DIRECTIONAL BORE).

PROPOSED OFF-SITE UTILITY CONNECTION EASEMENT. LOD TO MIRROR UTILITY EASEMENT.

0 200' 400'

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SITE PLAN

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- 1 APRIL 2018: COUNTY COMMENTS
- 2 JUNE 2018: COUNTY COMMENTS
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Date:	MARCH 2018
Scale:	1" = 200'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	C-5

N/F
Map 11, Parcel 75
Gregory N Kemp and
Nicole L Martin
905/26

20' WIDE FULL SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

N/F
Map 11, Parcel 51
Charles Edward
Wothers Jr
183/270

JACKSON LANE
30' R.O.W.

ROAD CENTERLINE, TYP.

N/F
Map 11, Parcel 113
John H Brown Jr and
John H Brown III
1201/229

N/F
Map 11, Parcel 152
Melanie M Small and
Keith B Small
442/136

N/F
Map 11, Parcel 170, Lot 7R
Eric L Hignutt and
Donna M Hignutt
900/433

PROPOSED 30' DOUBLE GATE. SEE DETAIL SHEET D-1

15' R.O.W.

N/F
Map 11, Parcel 25
Marlene Glaeser
384/542

Map 11, Parcel 52
Area "A"

20' WIDE MODERATE SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

TURNAROUND, TYP. SEE DETAIL SHEET D-1

N/F
Map 11, Parcel 55
Brian T Johnson and
Sarah E Johnson
1103/111

Map 11, Parcel 158

WETLAND,TYP.

20' WIDE FULL POLLINATOR HABITAT LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

265' FROM EX. HOUSE TYP.

Map 11, Parcel 52
Area "B"

EXISTING DRIVEWAY TO REMAIN

35' WETLAND BUFFER, TYP.

210 FT FROM EXISTING HOUSE TYP.

20' WIDE FULL SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

INVERTER,TYP.

BUILDING RESTRICTION LINE,TYP.

35' TREELINE OFFSET, TYP.

PROPOSED HORIZONTAL DIRECTIONAL DRILL ROAD CROSSING W/ 10' x 20' BORE PITS, TYP.

Map 11, Parcel 53

N/F
Map 11, Parcel
147, Lot 4
East Star LLC
302/579

N/F
Map 11, Parcel 52
East Star LLC
302/579

MATCHLINE - SEE SHEET C-5

0 200' 400'

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SITE PLAN

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Cherrywood Solar I, LLC
Caroline County, Maryland

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Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	C-6

N/F
Map 11, Parcel 171
State of Maryland SHA
1135/231

N/F Map 10, Parcel 11
Ronald Spiering
240/688

CHURCH LANE
30' R.O.W.

N/F
Map 11, Parcel 151
Margo Kochler
997/232

N/F
Map 11, Parcel 19
Shirley M Cook and
Candy A Cook
1245/489

BRIDGETOWN ROAD
30' R.O.W.

N/F
Map 10, Parcel 64
Mabel Levengood Trustee
977/322

N/F
Map 10, Parcel 14
James A Faulkner
469/139

DAVIS ROAD
30' R.O.W.

SEE "TYPICAL DIRECTION DRILL RAILROAD CROSSING SECTION" ON SHEET D-1

SEE "TYPICAL DIRECTION DRILL CROSS SECTION" ON SHEET D-1

PROPOSED DIRECTIONAL DRILL W/ BORE PITS, TYP.

OFF-SITE UTILITY CONNECTION EASEMENTS (PARTIALLY WITHIN R.O.W.) MAP 10, PARCEL 11 TO MAP 11 PARCEL 7 TO INCLUDE 10" HDPE DIRECTIONALLY DRILLED PIPE

COLLECTION LINE (INSTALLED VIA OPEN TRENCH AND HORIZONTAL DIRECTIONAL BORE). POTENTIAL TREE CLEARING WILL BE ONLY BE REQUIRED SURROUNDING THE BORE PIT LOCATIONS. REMAINDER OF LOD WILL NOT BE CLEARED. LOD TO MIRROR UTILITY EASEMENT EXCEPT WITHIN STATE ROW.

N/F
Map 11, Parcel 84
Noble T Jarrell Jr and
Mary E Jarrell
179/454

N/F
Map 11, Parcel 6
Noble T Jarrell Jr and
Mary E Jarrell
179/454

BRIDGETOWN ROAD
30' R.O.W.

GREENSBORO ROAD (MD 313)
30' R.O.W.

N/F
Map 11, Parcel 115
George Melvin Cowgill Jr
and Suzanne H Cowgill
194/479

N/F
Map 11, Parcel 81
Bryan E Zuravnsky and
Carolyn S Zuravnsky
526/200

Map 11, Parcel 7
Sherman W Councell III
409/168

N/F
Map 11, Parcel 161
East Star LLC
452/647

N/F
Map 11, Parcel 49
East Star LLC
452/647

Map 11, Parcel 16
Brian T Johnson and
Sarah E Johnson
1103/111

Map 11, Parcel 1632
David M Sakers
Yvonne M Sakers
231/530

Map 11, Parcel 5
David M Sakers
Yvonne M Sakers
231/530

Map 11, Parcel 135
Peter M Layton
320/723

Map 11, Parcel 58
John H Brown Jr
John H Brown III
1201/228

Map 11, Parcel 56
John H Brown Jr
John H Brown III
1201/218

SANDTOWN ROAD (MD 287)
40' R.O.W.

N/F
Map 11, Parcel 162
Johnathon O Merson and
Tammy Lynn Merson
929/423

N/F
Map 11, Parcel 118
William Sherman Councell III
and Sherry L Councell
204/223

COLLECTION LINE (INSTALLED VIA OPEN TRENCH AND HORIZONTAL DIRECTIONAL BORE).

OFF-SITE UTILITY CONNECTION EASEMENTS MAP 11, PARCEL 56 TO MAP 11 PARCEL 7 TO INCLUDE 10" HDPE DIRECTIONAL DRILLED PIPE WHERE REQUIRED

PROPOSED OFF-SITE UTILITY CONNECTION EASEMENT. LOD TO MIRROR UTILITY EASEMENT.

PROPOSED DIRECTIONAL DRILL W/ BORE PITS, TYP.

N/F
Map 11, Parcel 162
Johnathon O Merson and
Tammy Lynn Merson
929/423

0 300' 600'

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OFF-SITE UTILITIES

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Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
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Date: MARCH 2018
Scale: 1" = 300'
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: C-7

PR. DRIVEWAY WEST OF EX. DRAINAGE DITCH IS NOT PART OF THE SUBSTATION PROJECT. ONLY SHOWN FOR CLARITY

35FT WETLAND BUFFER

PR. 20FT GRAVEL DRIVE

EX. DRAINAGE DITCH

35FT WETLAND BUFFER

PR. SGW-1

POI-1

CONVEYANCE SWALE

CONVEYANCE SWALE

PRETREATMENT SEDIMENTATION BASIN

EX. DRAINAGE DITCH

300' DELMARVA POWER UTILITY EASEMENT

PRETREATMENT SEDIMENTATION BASIN

POI-3

PR. INFILTRATION BASIN - 1

PR. DPL SUBSTATION

20' WIDE FULL SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

20' WIDE FULL SCREENING LANDSCAPE BUFFER, TYP. SEE SHEET L-1 FOR PLANTING SCHEDULE

PR. COLLECTOR SUBSTATION

CONVEYANCE SWALE

POI-2

PRETREATMENT SEDIMENTATION BASIN

PR. PAVED DRIVE

CONVEYANCE SWALES

EX. DRAINAGE DITCH

35FT WETLAND BUFFER

CONVEYANCE SWALES

CONVEYANCE SWALES

PR. INFILTRATION BASIN - 2

P1

P2

P3

LEGEND

- PR. UN-COMPACTED GRAVEL YARD
- PR. AGGREGATE MAINTENANCE AREA
- PR. COMPATED GRAVEL AGGREGATE ROADWAY INSIDE SUBSTATION FENCE
- PR. COMPACTED GRAVEL AGGREGATE ROADWAY OUTSIDE SUBSTATION FENCE
- PR. PAVED DRIVE
- PR. SWALE
- IB#6 — INFILTRATION BORING
- LOD/SF — PR. LOD AND SILT FENCE

*NOTE: SEE SHEET CS-7 FOR ADDITIONAL DETAILS REGARDING PROPOSED CROSS SECTIONS

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SUBSTATION SITE PLAN

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

Revisions:
1 JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
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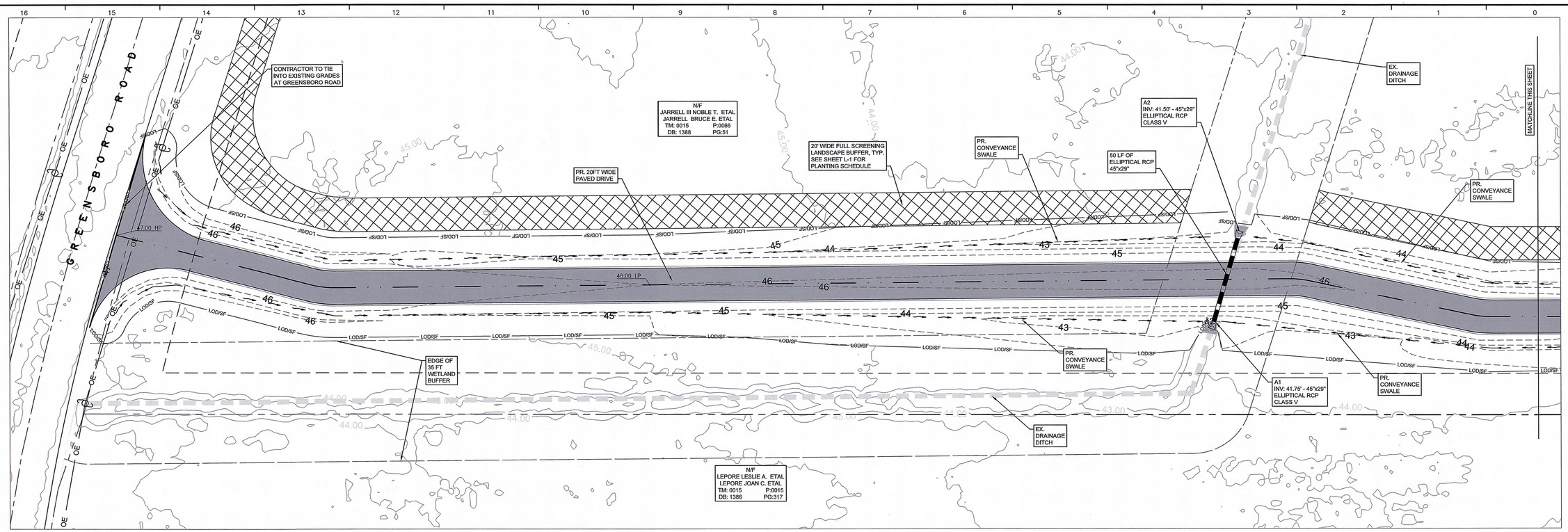
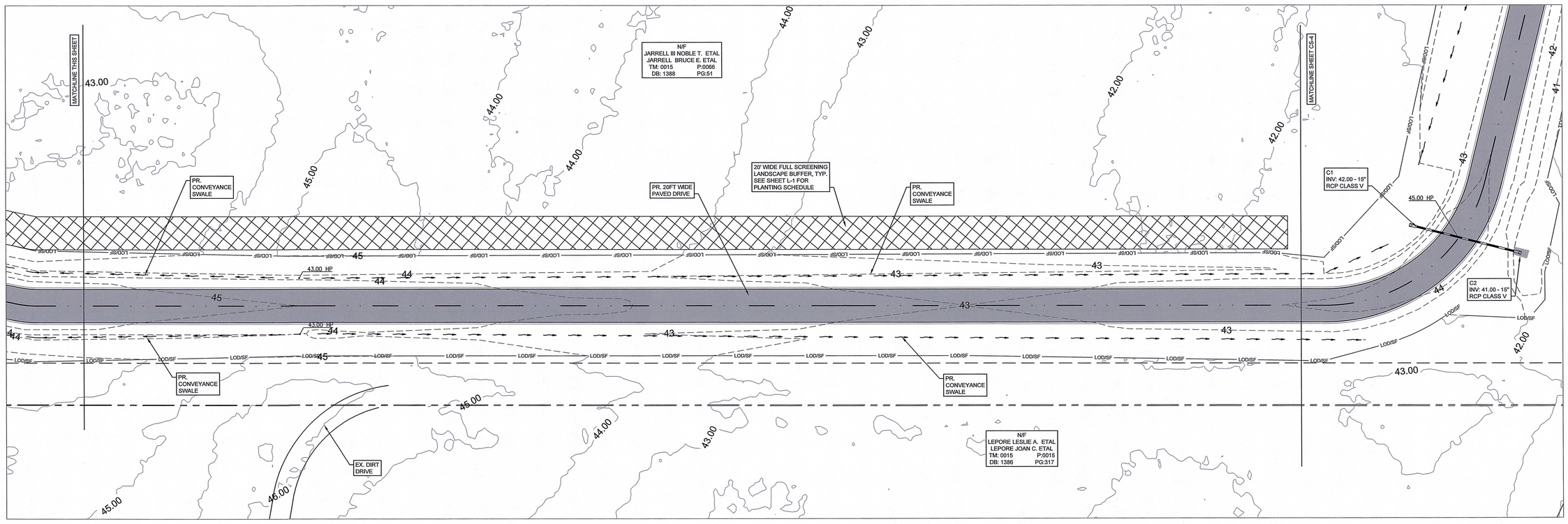


LEGEND

- PR. PAVED DRIVE
- PR. SWALE
- LOD/SF — PR. LOD AND SILT FENCE

*NOTE: SEE SHEET CS-7 FOR ADDITIONAL DETAILS REGARDING PROPOSED CROSS SECTIONS



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SUBSTATION SITE PLAN

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

Revisions:
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LEGEND

PR. COMPACTED GRAVEL AGGREGATE ROADWAY OUTSIDE SUBSTATION FENCE

PR. SWALE

LOD/SF — PR. LOD AND SILT FENCE

*NOTE: SEE SHEET CS-7 FOR ADDITIONAL DETAILS REGARDING PROPOSED CROSS SECTIONS

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SUBSTATION SITE PLAN

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

Revisions:
1 JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	1"= 30'
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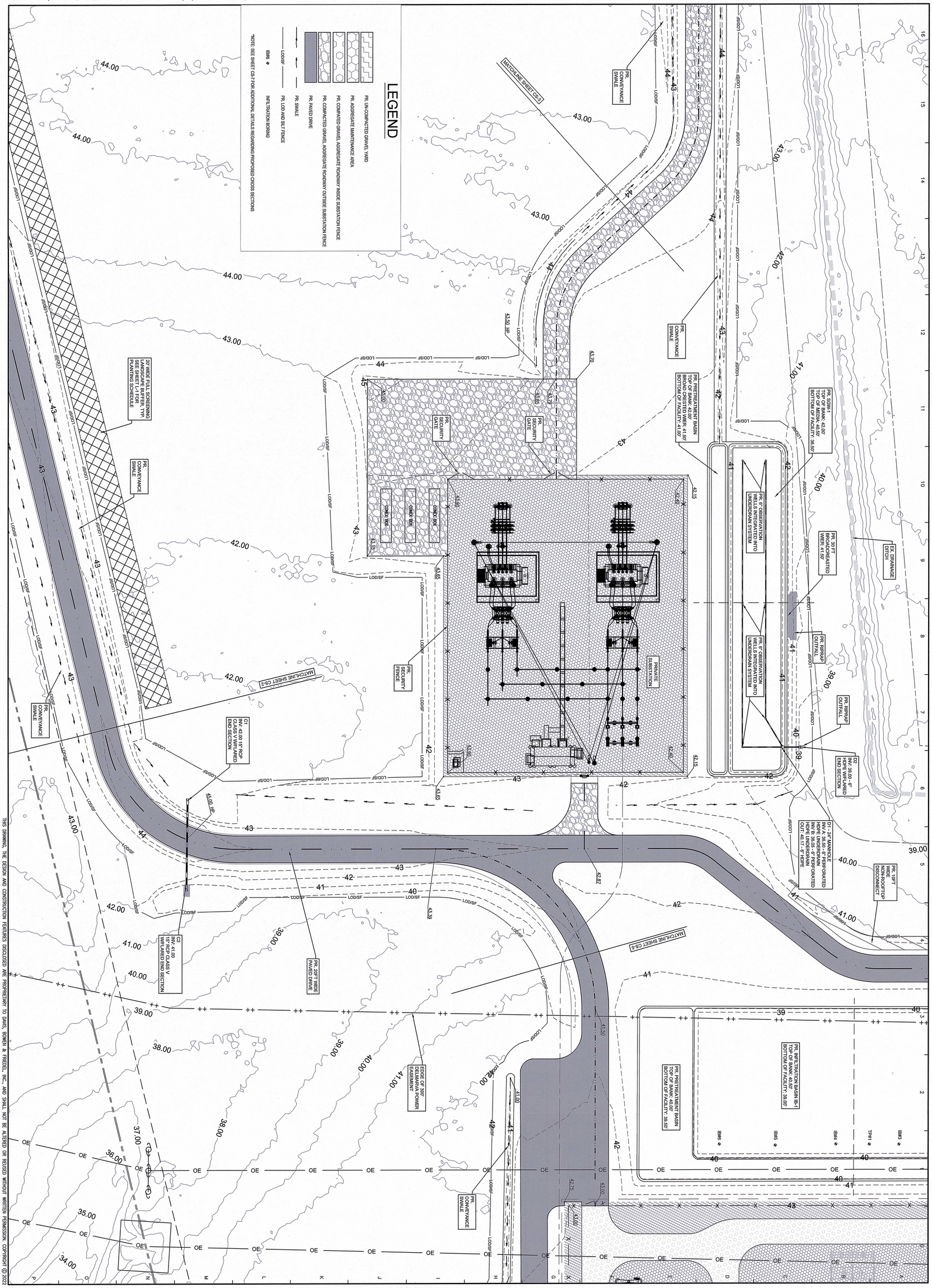

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CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

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SUBSTATION SITE PLAN

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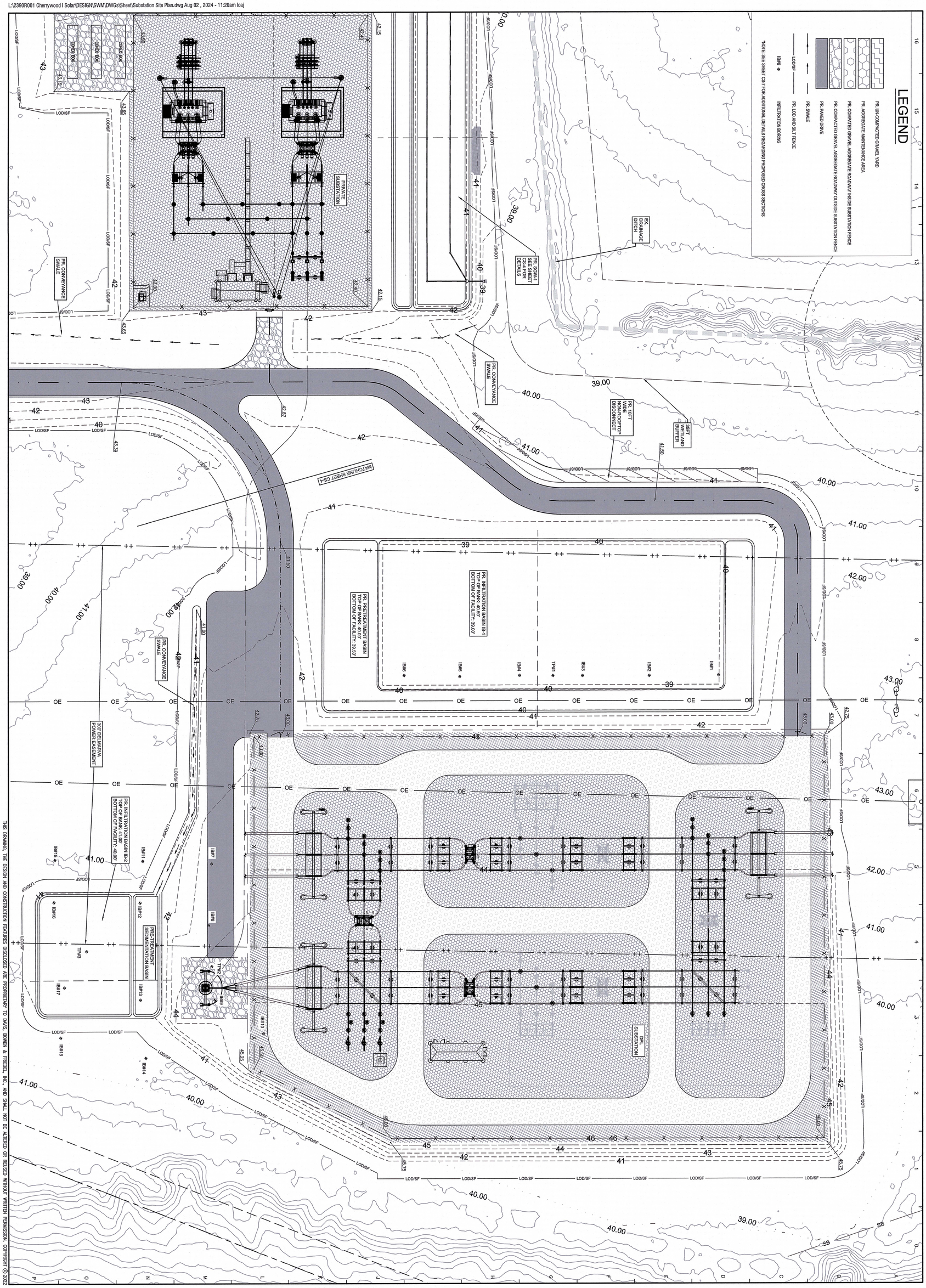

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CS-5

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CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

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SUBSTATION SITE PLAN

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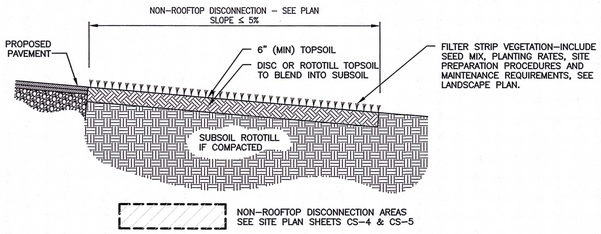


TYPICAL NON-ROOFTOP DISCONNECTION DETAIL

NOT TO SCALE

NON-ROOFTOP DISCONNECTION MAINTENANCE CRITERIA:

1. MAINTENANCE OF AREAS RECIEVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED OF OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION. IN COMMERCIAL AREAS, HIGH FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

NON-ROOFTOP DISCONNECTION INSPECTION CRITERIA:

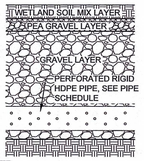
1. A FINAL INSPECTION SHALL BE CONDUCTED BEFORE USE AND OCCUPANCY APPROVAL TO ENSURE THAT ADEQUATE TREATMENT AREAS AND PERMANENT STABILIZATION HAS BEEN ESTABLISHED.

NON-ROOFTOP DISCONNECTION CONSTRUCTION CRITERIA:

1. EROSION AND SEDIMENT CONTROL:
   EROSION AND SEDIMENT CONTROL PRACTICES SHALL NOT BE LOCATED IN AREAS DESIGNATED FOR NON–ROOFTOP DISCONNECTIONS.
2. SITE DISTURBANCE:
   TO MINIMIZE DISTURBANCE AND COMPACTION, CONSTRUCTION VEHICLES AND EQUIPMENT SHOULD AVOID AREAS RECIEVING DISCONNECTED RUNOFF. SHOULD AREAS RECIEVING DISCONNECTED RUNOFF BECOME COMPACTED, SCARIFYING OR ROTOTILLING THE SOIL TO A DEPTH OF 4–6 INCHES SHALL BE PERFORMED TO ENSURE PERMEABILITY. ADDITIONALLY, AMENDMENTS MAY BE NEEDED FOR TIGHT, CLAYEY SOILS.

INFILTRATION MAINTENANCE CRITERIA:

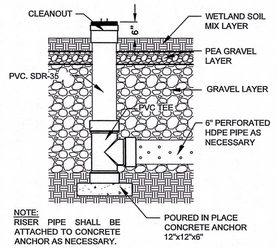
1. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISED OVER THE CONTRIBUTING PERVIOUS DRAINAGE AREAS BEFORE RUNOFF CAN BE ACCEPTED INTO THE FACILITY.
2. INFILTRATION PRACTICES MAY NOT SERVE AS A SEDIMENT CONTROL DEVICE DURING THE SITE CONSTRUCTION PHASE. IN ADDITION THE EROSION AND SEDIMENT CONTROL PLAN FOR THE SITE MUST CLEARLY INDICATE HOW SEDIMENT WILL BE PREVENTED FROM ENTERING THE INFILTRATION SITE.
3. DIRECT ACCESS SHALL BE PROVIDED TO ALL INFILTRATION PRACTICES FOR MAINTENANCE AND REHABILITATION.
4. INFILTRATION PRACTICES SHOULD NOT BE COVERED BY AN IMPERMEABLE SURFACE.



NOTE:
1. PIPE PERFORATIONS SHOULD BE 3/8" DIAMETER LOCATED 6" ON CENTER WITH A MINIMUM OF FOUR HOLES PER ROW.
2. WRAP UNDERDRAIN PIPE WITH 1/4" (NO. 4 OR 4X4) GALVANIZED HARDWARE CLOTH

UNDERDRAIN DETAIL

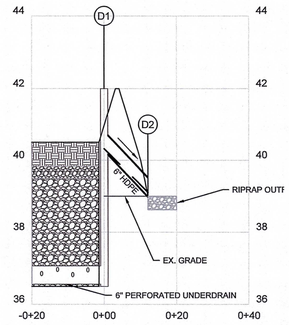
NOT TO SCALE



NOTE:
RISER PIPE SHALL BE ATTACHED TO CONCRETE ANCHOR AS NECESSARY.

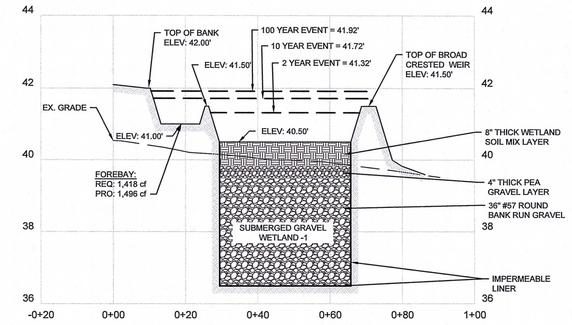
CLEAN OUT/OBSERVATION WELL DETAIL

NOT TO SCALE



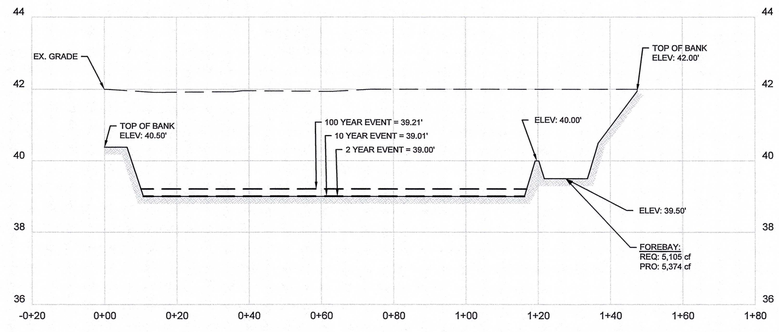
SGW-1 OUTFALL PROFILE

SCALE: 1"=20' HORIZ.
1"= 2' VERT.



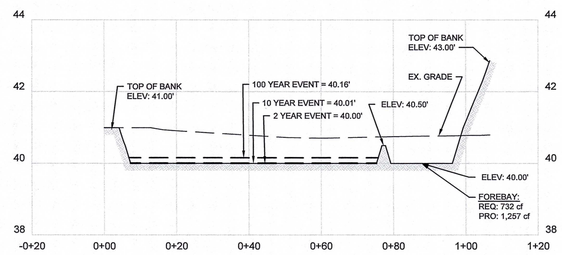
SUBMERGED GRAVEL WETLAND - 1

SCALE: 1"=20' HORIZ.
1"= 2' VERT.



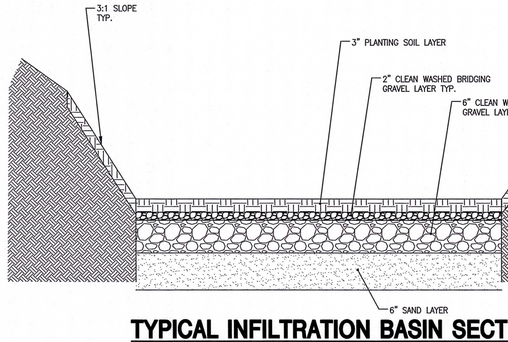
INFILTRATION BASIN - 1

SCALE: 1"=20' HORIZ.
1"= 2' VERT.



INFILTRATION BASIN - 2

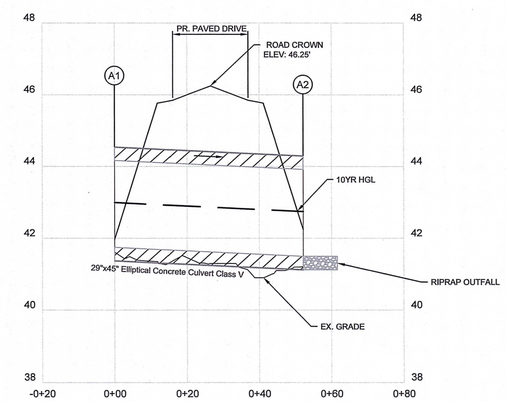
SCALE: 1"=20' HORIZ.
1"= 2' VERT.



TYPICAL INFILTRATION BASIN SECTION N.T.S

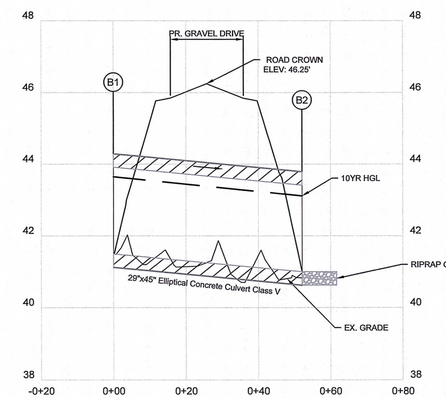
STORM STRUCTURE TABLE					
NAME	RIM ELEV(FT)	BASE ELEV(FT)	INVERT–IN ELEV(FT)	INVERT–OUT ELEV(FT)	TYPE
A1	N/A	41.75	N/A	41.75	Culvert Inlet
A2	N/A	41.50	41.50	N/A	Culvert Outfall
B1	N/A	41.50	N/A	41.50	Culvert Inlet
B2	N/A	41.00	41.00	N/A	Culvert Outfall
C1	N/A	42.00	N/A	42.00	Culvert Inlet
C2	N/A	41.00	41.00	N/A	Culvert Outfall
D1	42.00	36.50	36.50 6" UNDERDRAIN	40.18	Circular Structure
D2	N/A	39.00	39.00	N/A	Outfall

STORM PIPE TABLE				
NAME	TYPE	SLOPE (%)	UP INVERT (FT)	DOWN INVERT (FT)
P1	29"x45"Elliptical RCP	0.480	41.75	41.50
P2	29"x45"Elliptical RCP	0.959	41.50	41.00
P3	15" RCP	1.837	42.00	41.00
SGW OUTFALL	6"HDPE	9.786	40.18	39.00



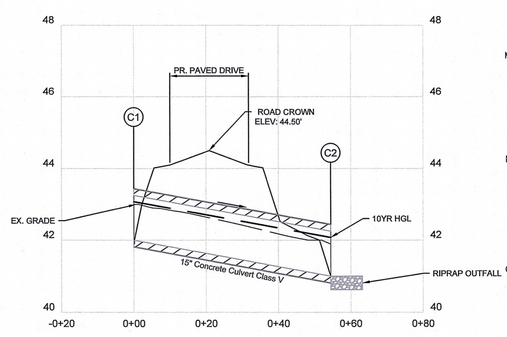
STORMDRAIN CULVERT P1

SCALE: 1"=20' HORIZ.
1"= 2' VERT.



STORMDRAIN CULVERT P2

SCALE: 1"=20' HORIZ.
1"= 2' VERT.



STORMDRAIN CULVERT P3

SCALE: 1"=20' HORIZ.
1"= 2' VERT.

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ARCHITECTS ENGINEERS SURVEYORS
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MILFORD, DELAWARE (302) 424-1441
EASTON, MARYLAND (410) 770-4744

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. 31100, Expiration Date: 01-21-25.

STORMWATER PROFILES

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

Revisions:
1 JUNE 2024: SITE PLAN SUBMITTAL

Date: MARCH 2018
Scale: AS SHOWN
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: CS-6

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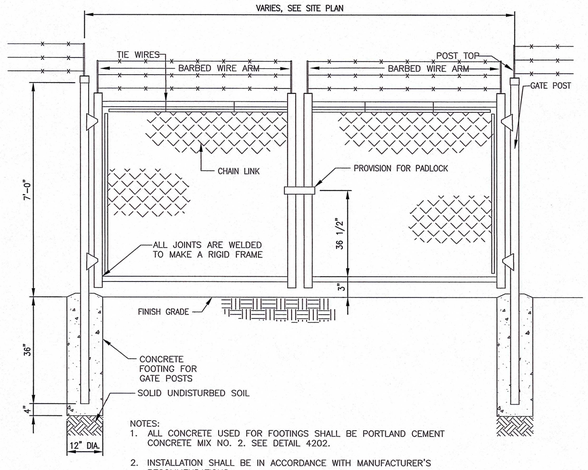
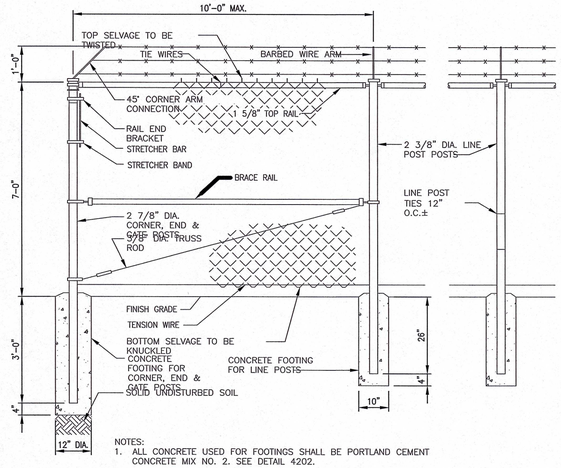


NOTES:
1. ALL CONCRETE USED FOR FOOTINGS SHALL BE PORTLAND CEMENT CONCRETE MIX NO. 2. SEE DETAIL 4202.
2. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. FINISH SHALL BE AS SELECTED BY OWNER.
4. POST TOPS SHALL BE AS SELECTED BY OWNER.
5. REFER TO MANUFACTURER'S SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. INSTALL PRIVACY SLATS IN GATES. COLOR TO BE SELECTED BY OWNER.
7. FINAL GATE DESIGN/INSTALLATION SHALL BE IN ACCORDANCE WITH TYPICAL DELMARVA POWER STANDARDS.

DOUBLE LEAF SECURITY GATE (SUBSTATION/SWITCHYARD)

NOT TO SCALE



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3. FINISH SHALL BE AS SELECTED BY OWNER.
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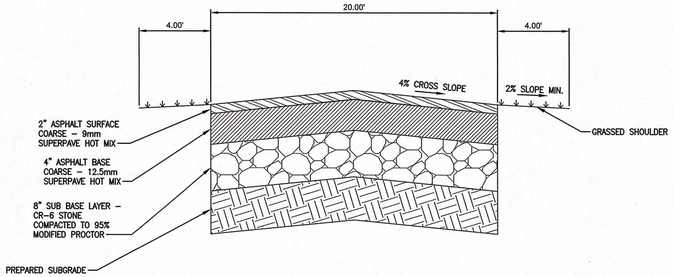
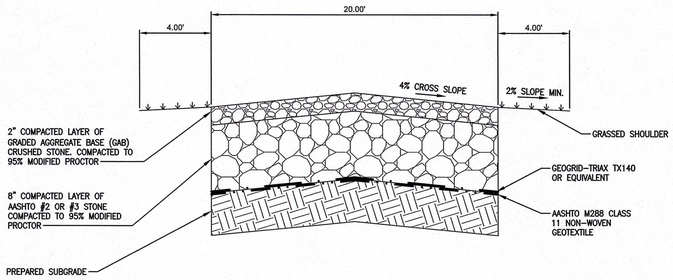
8' HIGH CHAIN LINK SECURITY FENCE (SUBSTATION/SWITCHYARD)

NOT TO SCALE



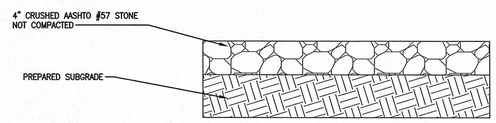
PR. PAVED DRIVE

NTS



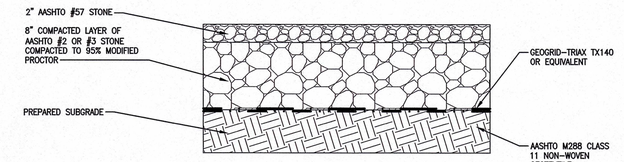
PR. COMPACTED GRAVEL AGGREGATE ROADWAY OUTSIDE SUBSTATION FENCE

NTS



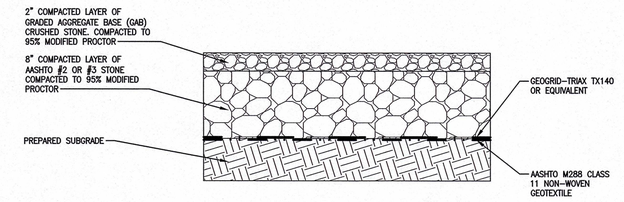
PR. UN-COMPACTED GRAVEL 'YARD'

NTS



PR. AGGREGATE MAINTENANCE AREA

NTS



PR. COMPACTED GRAVEL AGGREGATE ROADWAY INSIDE SUBSTATION FENCE

NTS

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ARCHITECTS ENGINEERS SURVEYORS
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MILFORD, DELAWARE (302) 424-1441
EASTON, MARYLAND (410) 770-4744

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. 31100, Expiration Date: 01-21-25.

DETAILS

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

Revisions:
1. JUNE 2024: SITE PLAN SUBMITTAL

Date: MARCH 2018
Scale: AS SHOWN
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: CS-7

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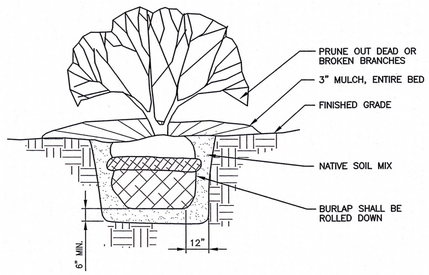


SHRUB PLANTING DETAIL

NOT TO SCALE

GENERAL LANDSCAPE NOTES

1. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".
2. CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER INSTALLATION IS COMPLETE AND FINAL ACCEPTANCE OF SITE WORK HAS BEEN GIVEN. AT THE END OF ONE YEAR ALL PLANT MATERIAL WHICH IS DEAD OR DYING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AS ORIGINALLY SPECIFIED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND/OR LOCATION OF PLANT MATERIALS. CONTRACTOR TO VERIFY "AS BUILT" LOCATION OF ALL UTILITIES.
4. NO SUBSTITUTIONS SHALL BE MADE WITHOUT APPROVAL OF THE OWNER.
5. ALL AREAS NOT STABILIZED IN PAVING OR PLANT MATERIALS SHOULD BE SEEDED AND MULCHED. (SEE EROSION & SEDIMENT CONTROL PLAN.)
6. EVERGREEN TREES SHALL HAVE A FULL, WELL-BRANCHED, CONICAL FORM TYPICAL OF THE SPECIES.
7. TREES SHALL BE PLANTED AND STAKED IN ACCORDANCE WITH THE STAKING DETAIL SHOWN.
8. THE FULL EXTENT OF ALL PLANTING BEDS SHALL RECEIVE 4" OF TOPSOIL AND 3" OF BARK MULCH PER SPECIFICATIONS.
9. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THIS DRAWING AND AS SPECIFIED.
10. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
11. THE CONTRACTOR SHALL WATER ALL PLANTS THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING, AND THEN WEEKLY OR MORE OFTEN, IF NECESSARY, DURING THE FIRST GROWING SEASON.
12. REQUIRED LANDSCAPING AND BUFFERS WILL BE MAINTAINED IN ACCORDANCE WITH THE APPROVED MAINTENANCE PLAN.
13. LANDSCAPE BERM WILL NOT BE INSTALLED BASED ON EXISTING SITE CONDITIONS.

PROPOSED SWM BMP FACILITIES

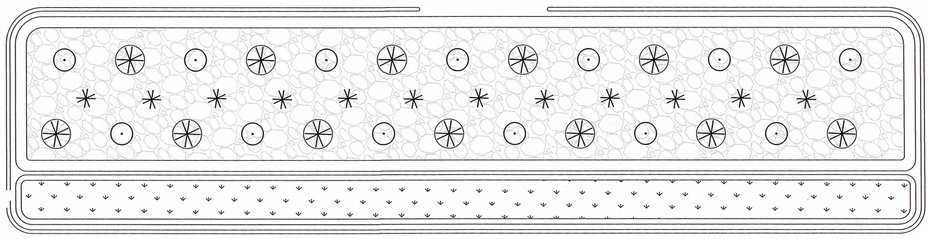
(1) SUBMERGED GRAVEL WETLAND
(1) NON-ROOFTOP DISCONNECTION (SEE SHEET CS-6 FOR DETAIL)
(2) INFILTRATION BASINS

NOTE: PROPOSED SWM BMPS ARE CONSISTENT WITH TIER II ENHANCED ANTI-DEGRADATION BMP REQUIREMENTS

SWM BMP PLANT SCHEDULE

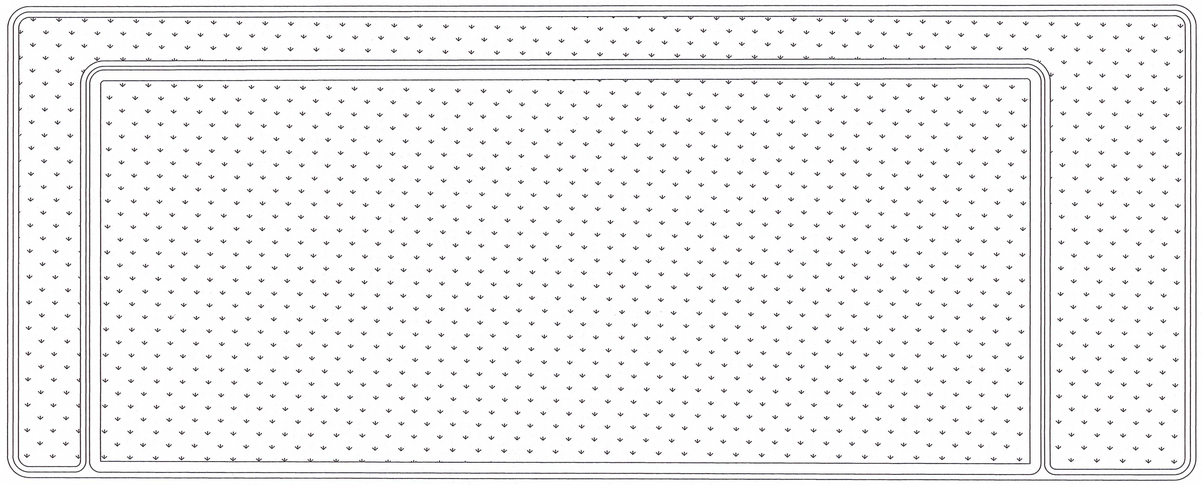
SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	EST. QUANTITY
			SHRUBS				
⊙	✓	CH	CLETHRA alnifolia	HUMMINGBIRD	18"-24", B&B	3' OC	12
✳	✓	IV	ILEX verticillata	WINTERBERRY HOLLY	18"-24"	3' OC	13
✳	✓	RV	RHODODENDRON viscosum	SWAMP AZALEA	18"-24" B&B	3' OC	13
					TOTAL		38
			GRASS SEED	Virginia Wild		10 LBS/ACRE (1.077 ACRES)	10.77 lbs

PLANTINGS:
12 - CH
13 - IV
13 - RV



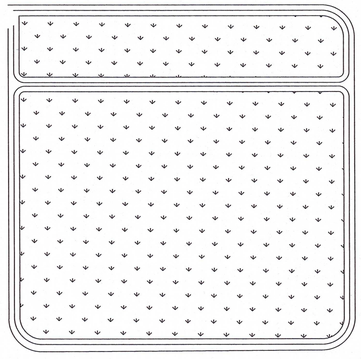
SGW-1 LANDSCAPING PLAN

1"=20'



IB-1 LANDSCAPING PLAN

1"=20'



IB-2 LANDSCAPING PLAN

1"=20'

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ARCHITECTS ENGINEERS SURVEYORS
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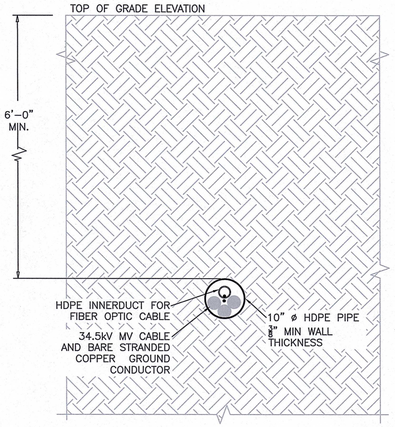
SWM LANDSCAPING PLAN

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

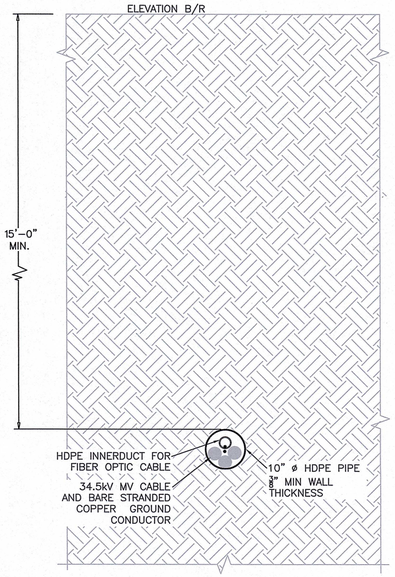
Revisions:
⚠ JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	AS SHOWN
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	CS-8



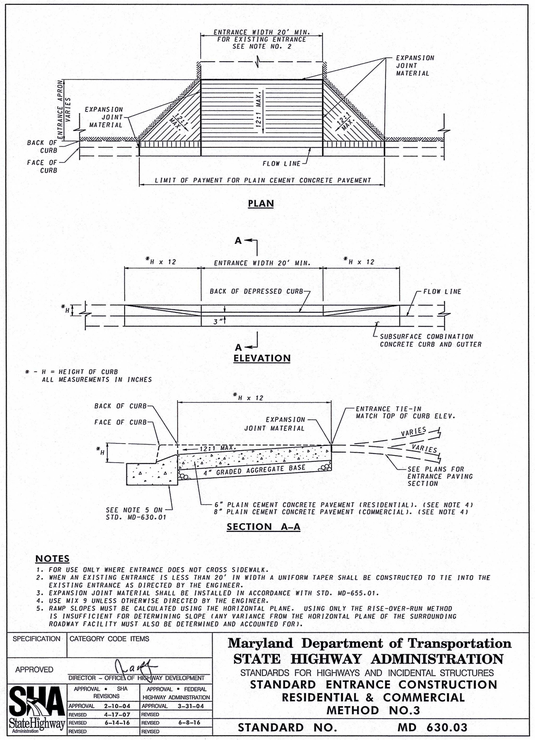
TYPICAL DIRECTIONAL DRILL CROSS SECTION

NOT TO SCALE



TYPICAL DIRECTIONAL DRILL RAILROAD CROSSING SECTION

NOT TO SCALE



NOTES

1. FOR USE ONLY WHERE ENTRANCE DOES NOT CROSS SIDEWALK.
2. WHEN AN EXISTING ENTRANCE IS LESS THAN 20' IN WIDTH A UNIFORM TAPER SHALL BE CONSTRUCTED TO TIE INTO THE EXISTING ENTRANCE AS DIRECTED BY THE ENGINEER.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
4. USE MIX 9 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. RAMP SLOPES MUST BE CALCULATED USING THE HORIZONTAL PLANE. USING ONLY THE RISE-OVER-RUN METHOD IS INSUFFICIENT FOR DETERMINING SLOPE (ANY VARIANCE FROM THE HORIZONTAL PLANE OF THE SURROUNDING ROADWAY FACILITY MUST ALSO BE DETERMINED AND ACCOUNTED FOR).

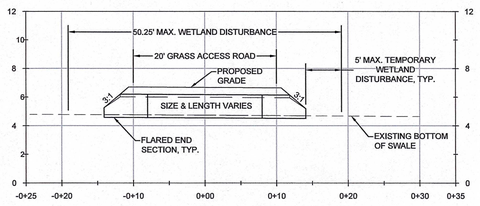
SPECIFICATION	CATEGORY CODE ITEMS
APPROVED	DIRECTOR – OFFICE OF HIGHWAY DEVELOPMENT

SHA State Highway Administration	APPROVAL • SHA REVISIONS		APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
	APPROVAL	2-10-04	APPROVAL	3-31-04
	REVISED	4-17-07	REVISED	
	REVISED	6-14-16	REVISED	6-8-16
	REVISED		REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL & COMMERCIAL METHOD NO.3

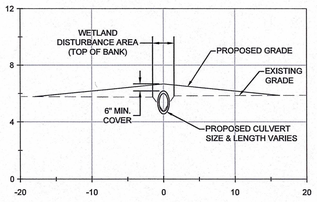
STANDARD NO. MD 630.03

NOTE: NO. 57 STONE TO BE USED IN LIEU OF ASPHALT.



TYPICAL WETLAND CROSSING PROFILE

SCALE: HORIZ. 1"=10'
VERT. 1"=5'



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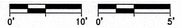
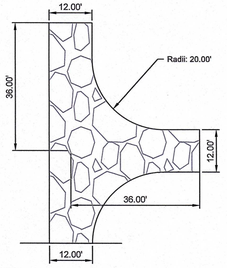
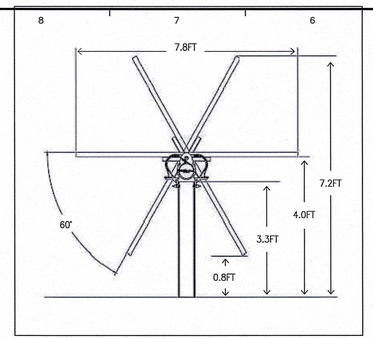




TYPICAL TURNAROUND DETAIL

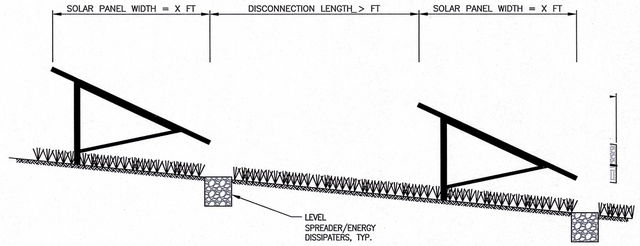
SCALE: 1"=20'



TYPICAL SINGLE AXIS TRACKING SOLAR PANEL DETAIL

NOT TO SCALE

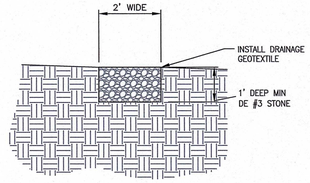
NOTES:
1. WIND DESIGN – 120 MPH, EXPOSURE CATEGORY "C", RISK CATEGORY II; GROUND SNOW LOAD – 20 PSF.
2. ALL MODULES SHALL CONTAIN ANTI-REFLECTIVE COATING.
3. ALL DIMENSIONS ARE ESTIMATED, FINAL DIMENSIONS BASED ON SELECTED EQUIPMENT.



TYPICAL LEVEL SPREADER LAYOUT

NOT TO SCALE

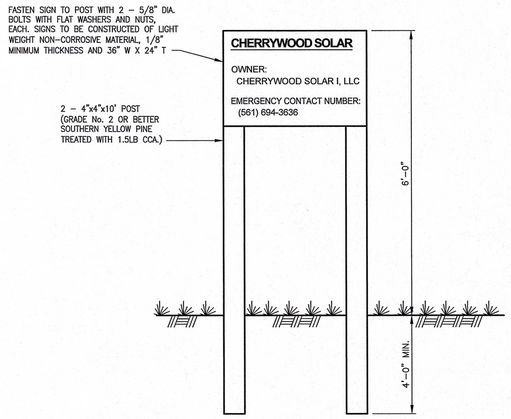
NOTE:
LEVEL SPREADERS TO BE INSTALLED WITH CONTOURS WHERE APPLICABLE.



LEVEL SPREADER DETAIL

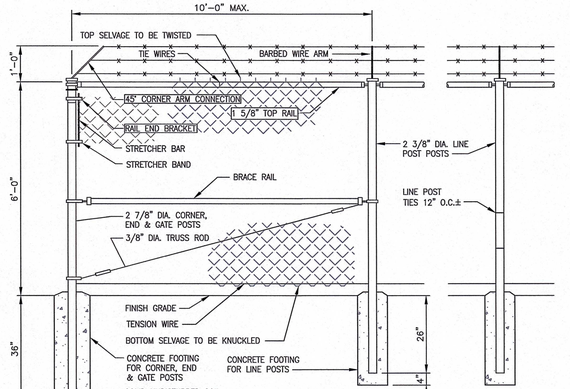
NOT TO SCALE

NOTE:
FOR IDENTIFIED AREAS WITH SLOPES EXCEEDING 5%, LEVEL SPREADERS SHALL BE INSTALLED.



SIGN DETAIL

NOT TO SCALE



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3. FINISH SHALL BE AS SELECTED BY OWNER.
4. REFER TO MANUFACTURER'S SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. CONCRETE FOOTERS REQUIRED AT ALL CORNERS AND EVERY OTHER POST.

7' HIGH CHAIN LINK SECURITY FENCE

NOT TO SCALE

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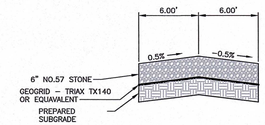
6. INSTALL PRIVACY SLATS IN GATES. COLOR TO BE SELECTED BY OWNER.

DOUBLE LEAF GATE

NOT TO SCALE



INTERNAL IMPROVED ROADWAY DETAIL

NOT TO SCALE

NOTE: SUBJECT TO CHANGE

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MILFORD, DELAWARE (302) 424-1441
BOSTON, MARYLAND (410) 770-4744

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. 31100, Expiration Date: 01-21-25.

SITE DETAILS

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
- OCT 2018: SITE PLAN SUBMITTAL
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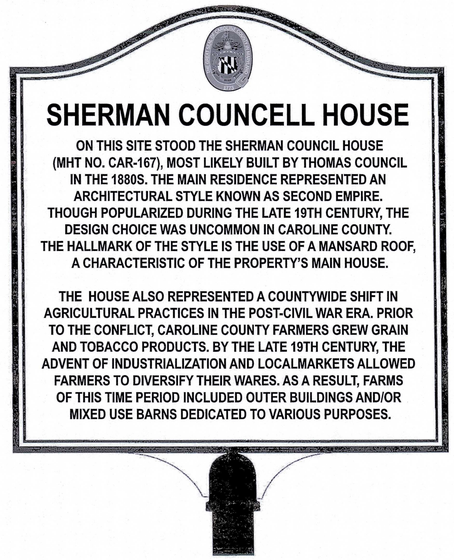
- JUNE 2024: SITE PLAN SUBMITTAL

Date:	MARCH 2018
Scale:	AS SHOWN
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	D-1

L:\2390r001 cherrywood solar\DESIGN\DWGs\08-2390R D-1 Site Details.dwg Jun 06, 2024 - 6:09pm lapj



NOTE:
3'-8" HIGH x 3'-6" WIDE DOUBLE FACE CAST ALUMINUM HISTORICAL MARKER CAROLINE CO. SEAL MEASURES APPROX 6" DIAMETER. TEXT STYLE: BLOCK AND COND. BLOCK LETTER HEIGHT: 2" AND 1" FINISH: BLACK BAKED ENAMEL BACKGROUND RAISED TEXT, SEAL AND DOUBLE BORDER SATIN FINISH. SIGN COMPLETE WITH CENTER POST MOUNTING HUB TO ACCOMMODATE 1) 3"x8' GALVANIZED STEEL POST.

SHERMAN COUNCELL HOUSE SIGN DETAIL

NOT TO SCALE

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Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	D-2

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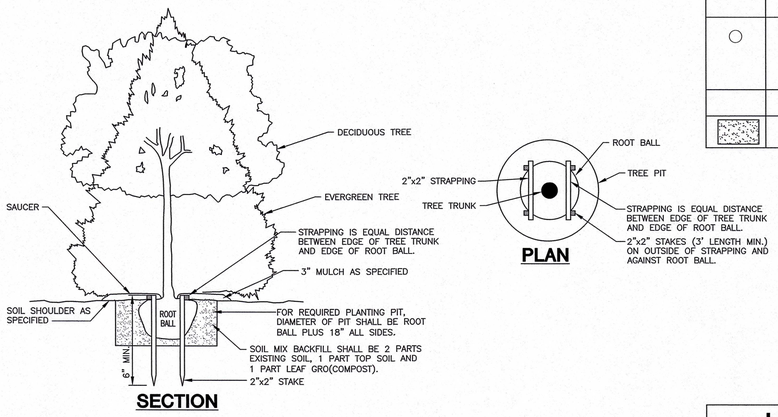
L:\2390\001 cherrywood I solar\DESIGN\DWGs\08-2390R D-1 Site Details.dwg Jun 06, 2024 - 6:09pm lapj

LANDSCAPE BUFFER POLLINATOR MIX

Landscape Buffer Seed Mix (VA Solar Pollinator Buffer Mix [ERNMX-620] or Equivalent)		
Species	Scientific Name	% of Mix PLS
Little Bluestem	*Schizachyrium scoparium*	36.4 %
Sideoats Grama	*Bouteloua curtipendul*	36.3 %
	Graminoids Total	72.7%
Partridge Pea	*Chamaecrista fasciculata*	4.0 %
Lanceleaf Coreopsis	*Coreopsis lanceolata*	4.0 %
Purple Coneflower	*Echinacea purpurea*	4.0 %
Blackeyed Susan	*Rudbeckia hirta*	3.3 %
Oxeye Sunflower	*Heliopsis helianthoides*	2.3 %
Butterfly Milkweed	*Asclepias tuberosa*	2.0 %
Tall White Beardtongue	*Penstemon digitalis*	1.1 %
Marsh Blazing Star	*Liatris spicata*	1.0 %
Wild Senna	*Senna hebecarpa*	0.7 %
Smooth Blue Aster	*Aster laevis*	0.5 %
New England Aster	*Aster novae-angliae*	0.5 %
Mistflower	*Eupatorium coelestinum*	0.5 %
White Avens	*Geum canadense*	0.5 %
Roundhead Lespedeza	*Lespedeza capitata*	0.5 %
Wild Bergamot	*Monarda fistulosa*	0.5 %
Golden Alexander	*Zizia aurea*	0.5 %
Blue False Indigo	*Baptisia australis*	0.3 %
Ohio Spiderwort	*Tradescantia ohiensis*	0.3 %
Hairy Beardtongue	*Penstemon hirsutus*	0.2 %
Narrowleaf Mountainmint	*Pycnanthemum tenuifolium*	0.2 %
Sundrops	*Oenothera fruticosa* var. *fruticosa*	0.1 %
Orange Coneflower	*Rudbeckia fulgida* var. *fulgida*	0.1 %
Early Goldenrod	*Solidago juncea*	0.1 %
Culver's Root	*Veronicastrum virginicum*	0.1 %
	Total Forbs and Legumes	27.3 %
	Total Graminoids, Forbs, and Legumes	100 %

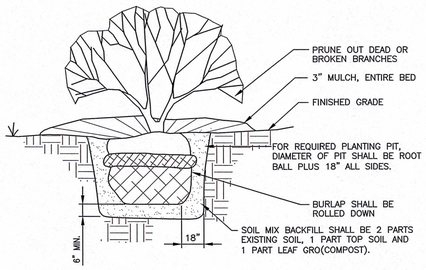
***Apply seed mix at a rate of 20 lbs/acre. For a cover crop use either seed oats (*Avena sativa*) if planting from Jan 1 to Jul 31 or cereal rye (*Secale cereale*) if planting from Aug 1 to Dec 31. Cover crop should be planted at a rate of 30 lbs/acre.**



SECTION **PLAN**

TREE STAKING DETAIL

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE

LANDSCAPE BUFFER PLANT SCHEDULE

SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
			EVERGREEN TREES			
	✓	IO	ILEX Nellie R. Stevens	NELLIE R. STEVENS HOLLY	3–4' Ht., B&B	
	✓	JV	JUNIPERUS virginiana	EASTERN RED CEDAR	6–7' Ht., B&B	
	✓	PS	PINUS strobus	EASTERN WHITE PINE	6–7' Ht., B&B	
	✓	PV	PINUS virginiana	VIRGINIA PINE	6–7' Ht., B&B	
						Total: 5507
			DECIDUOUS SHADE TREES			
	✓	AR	ACER rubrum	RED MAPLE	2" Cal., B&B	
	✓	LS	LIQUIDAMBAR styraciflua	SWEET GUM	2" Cal., B&B	
	✓	LT	LIRIODENDRON tulipifera	TULIP TREE	2" Cal., B&B	
	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	6–7' Ht., B&B	
	✓	QP	QUERCUS phellos	WILLOW OAK	2" Cal., B&B	
						Total: 1392
			DECIDUOUS UNDERSTORY TREES			
	✓	AC	AMELANCHIER canadensis	SERVICEBERRY	1" Cal., B&B	
	✓	CA	CARPINUS caroliniana	AMERICAN HORNBEAM	1" Cal., B&B	
	✓	CC	CERCIS canadensis	EASTERN REDBUD	1" Cal., B&B	
	✓	CF	CORNUS florida	DOGWOOD TREE	1" Cal., B&B	
	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	5'–6' Ht., B&B	
	✓	MS	MALUS sargentii	SARGENT CRAB	1" Cal., B&B	
						Total: 1424
			EVERGREEN SHRUBS			
		EK	EUONYMUS kiautschovicus 'MANHATTAN'	MANHATTAN EUONYMUS	3'–4' Ht., Cont.	
	✓	IG	ILEX glabra	INKBERRY	3'–4' Ht.,, Cont.	
		TM	TAXUS x media 'HICKSII'	HICK'S YEW	3'–4' Ht.,, Cont.	
		AG	ABELIA x grandiflora	GLOSSY ABELIA	3'–4' Ht., Cont.	
	✓	MC	MORELLA cerifera	NORTHERN BAYBERRY	3'–4' Ht., Cont.	
						Total: 5286
			DECIDUOUS SHRUBS			
	✓	AA	ARONIA arbutifolia	RED CHOKEBERRY	24"–36", B&B	
	✓	CL	CALLICARPA americana	AMERICAN BEAUTY BUSH	24"–36", B&B	
	✓	HV	HAMAMELIA virginiana	WITCH HAZEL	24"–36", B&B	
	✓	VD	VIBURNUM dentatum	SOUTHERN ARROWWOOD	24"–36", B&B	
						Total: 4143
			WILDFLOWER/GRASSES			
	✓	AV	ANDROPOGON virginicus	BROM SEDGE	#1 Cont.	
		MI	MISCANTHUS sinensis 'GRACILLIMUS'	MAIDEN GRASS	#1 Cont.	
		PA	PANICUM virgatum'NORTHWIND'	SWITCHGRASS 'NORTHWIND'	#1 Cont.	
						Total: 5384
	✓	PM	POLLINATOR MIX	ERNEST SEED COMPANY ERNMX–168	DETERMINED BY POLLINATOR MIX MANUFACTURER'S RECOMMENDATIONS	5 LBS/ACRE (3.70 ACRES)

NOTE: FINAL SELECTION OF LANDSCAPE BUFFER PLANTINGS TO BE DETERMINED DURING PROCUREMENT AND BASED ON AVAILABILITY. ANY MODIFICATIONS AND/OR SUBSTITUTIONS OF PLANT MATERIALS MUST BE SUBMITTED TO CAROLINE COUNTY FOR REVIEW AND APPROVAL.

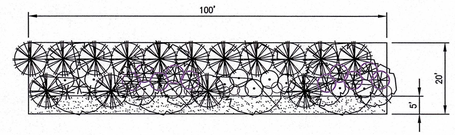
LANDSCAPE BUFFER FULL POLLINATOR HABITAT PLANT SCHEDULE

SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
			WILDFLOWER/GRASSES			
	✓	AV	ANDROPOGON virginicus	BROM SEDGE	#1 Cont.	
		MI	MISCANTHUS sinensis 'GRACILLIMUS'	MAIDEN GRASS	#1 Cont.	
		PA	PANICUM virgatum'SHENANDOAH'	SWITCHGRASS 'SHENANDOAH'	#1 Cont.	
						Total: 4681
	✓	PM	POLLINATOR MIX	ERNEST SEED COMPANY ERNMX–168	DETERMINED BY POLLINATOR MIX MANUFACTURER'S RECOMMENDATIONS	5 LBS/ACRE (2.42 ACRES)

NOTE: FINAL SELECTION OF LANDSCAPE BUFFER PLANTINGS TO BE DETERMINED DURING PROCUREMENT AND BASED ON AVAILABILITY.

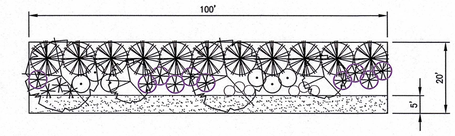
GENERAL LANDSCAPE NOTES

1. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".
2. CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER INSTALLATION IS COMPLETE AND FINAL ACCEPTANCE OF SITE WORK HAS BEEN GIVEN. AT THE END OF ONE YEAR ALL PLANT MATERIAL WHICH IS DEAD OR DYING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AS ORIGINALLY SPECIFIED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND/OR LOCATION OF PLANT MATERIALS. CONTRACTOR TO VERIFY "AS BUILT" LOCATION OF ALL UTILITIES.
4. NO SUBSTITUTIONS SHALL BE MADE WITHOUT APPROVAL OF THE OWNER/COUNTY.
5. ALL AREAS NOT STABILIZED IN PAVING OR PLANT MATERIALS SHOULD BE SEEDED AND MULCHED. (SEE EROSION & SEDIMENT CONTROL PLAN.)
6. EVERGREEN TREES SHALL HAVE A FULL, WELL–BRANCHED, CONICAL FORM TYPICAL OF THE SPECIES.
7. TREES SHALL BE PLANTED AND STAKED IN ACCORDANCE WITH THE STAKING DETAIL SHOWN.
8. THE FULL EXTENT OF ALL PLANTING BEDS SHALL RECEIVE 4" OF TOPSOIL AND 3" OF BARK MULCH PER SPECIFICATIONS.
9. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THIS DRAWING AND AS SPECIFIED.
10. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
11. THE CONTRACTOR SHALL WATER ALL PLANTS THOROUGHLY TWICE DURING THE FIRST 24–HOUR PERIOD AFTER PLANTING, AND THEN WEEKLY OR MORE OFTEN, IF NECESSARY, DURING THE FIRST GROWING SEASON.
12. REQUIRED LANDSCAPING AND BUFFERS WILL BE MAINTAINED IN ACCORDANCE WITH THE APPROVED MAINTENANCE PLAN.
13. ALL MAINTENANCE WILL BE AS SPECIFIED IN THE LANDSCAPE MAINTENANCE AGREEMENT.
14. THE PLANT MATERIAL TO BE USED MUST BE LANDSCAPE STOCK AND NOT REFORESTATION STOCK.



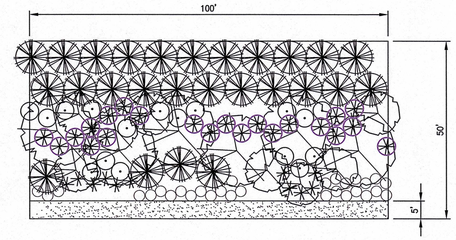
FULL SCREENING
TYPICAL LANDSCAPE BUFFER (100' x 20')

NOT TO SCALE



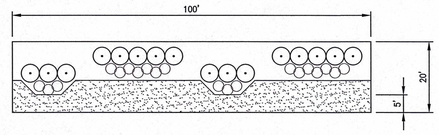
MODERATE SCREENING
TYPICAL LANDSCAPE BUFFER (100' x 20')

NOT TO SCALE



INTENSIVE SCREENING
TYPICAL LANDSCAPE BUFFER (100' x 50')

NOT TO SCALE



FULL POLLINATOR HABITAT
TYPICAL LANDSCAPE BUFFER (100' x 20')

NOT TO SCALE

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LANDSCAPE BUFFER NOTES & DETAILS

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L:\2390\001 cherrywood i solar\DESIGN\DWGs\09-2390R Landscape Buffer Options.dwg Jun 06, 2024 - 6:09pm lisaj

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			EVERGREEN TREES			
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	✓	JV	JUNIPERUS virginiana	EASTERN RED CEDAR	6–7' Ht., B&B	
	✓	PS	PINUS strobus	EASTERN WHITE PINE	6–7' Ht., B&B	
	✓	PV	PINUS virginiana	VIRGINIA PINE	6–7' Ht., B&B	
						Total: 5507
			DECIDUOUS SHADE TREES			
	✓	AR	ACER rubrum	RED MAPLE	2" Cal., B&B	
	✓	LS	LIQUIDAMBAR styraciflua	SWEET GUM	2" Cal., B&B	
	✓	LT	LIRIODENDRON tulipifera	TULIP TREE	2" Cal., B&B	
	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	6–7' Ht., B&B	
	✓	QP	QUERCUS phellos	WILLOW OAK	2" Cal., B&B	
						Total: 1392
			DECIDUOUS UNDERSTORY TREES			
	✓	AC	AMELANCHIER canadensis	SERVICEBERRY	1" Cal., B&B	
	✓	CA	CARPINUS caroliniana	AMERICAN HORNBEAM	1" Cal., B&B	
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	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	5'–6' Ht., B&B	
	✓	MS	MALUS sargentii	SARGENT CRAB	1" Cal., B&B	
						Total: 1424
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		EK	EUONYMUS kiautschovicus 'MANHATTAN'	MANHATTAN EUONYMUS	3'–4' Ht., Cont.	
	✓	IG	ILEX glabra	INKBERRY	3'–4' Ht.,, Cont.	
		TM	TAXUS x media 'HICKSII'	HICK'S YEW	3'–4' Ht.,, Cont.	
		AG	ABELIA x grandiflora	GLOSSY ABELIA	3'–4' Ht., Cont.	
	✓	MC	MORELLA cerifera	NORTHERN BAYBERRY	3'–4' Ht., Cont.	
						Total: 5286
			DECIDUOUS SHRUBS			
	✓	AA	ARONIA arbutifolia	RED CHOKEBERRY	24"–36", B&B	
	✓	CL	CALLICARPA americana	AMERICAN BEAUTY BUSH	24"–36", B&B	
	✓	HV	HAMAMELIA virginiana	WITCH HAZEL	24"–36", B&B	
	✓	VD	VIBURNUM dentatum	SOUTHERN ARROWWOOD	24"–36", B&B	
						Total: 4143
			WILDFLOWER/GRASSES			
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		MI	MISCANTHUS sinensis 'GRACILLIMUS'	MAIDEN GRASS	#1 Cont.	
		PA	PANICUM virgatum'NORTHWIND'	SWITCHGRASS 'NORTHWIND'	#1 Cont.	
						Total: 5384
	✓	PM	POLLINATOR MIX	ERNEST SEED COMPANY ERNMX–168	DETERMINED BY POLLINATOR MIX MANUFACTURER'S RECOMMENDATIONS	5 LBS/ACRE (3.70 ACRES)

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Culver's Root	*Veronicastrum virginicum*	0.1 %
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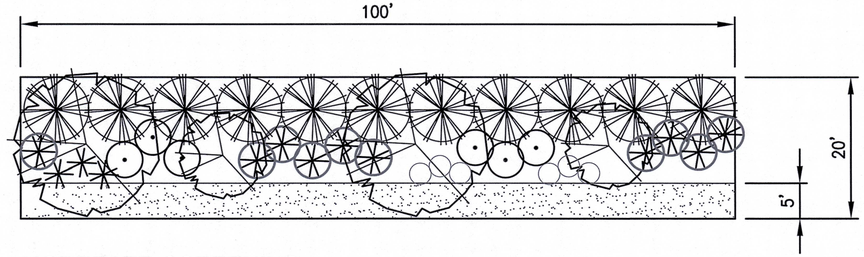
	Total Graminoids, Forbs, and Legumes	**100 %**

***Apply seed mix at a rate of 20 lbs/acre. For a cover crop use either seed oats (*Avena sativa*) if planting from Jan 1 to Jul 31 or cereal rye (*Secale cereale*) if planting from Aug 1 to Dec 31. Cover crop should be planted at a rate of 30 lbs/acre.**

** Renderings are examples only and not site specific.*

** Renderings are intended to depict the appearance of the various options three (3) years after planting.*



MODERATE SCREENING
TYPICAL LANDSCAPE BUFFER (100' x 20')

NOT TO SCALE

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. 31100, Expiration Date: 01-21-25.

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LANDSCAPE BUFFER VISUAL REPRESENTATIONS

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Date:	MARCH 2018
Scale:	NONE
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	L-2

V:\Studio 3D Modeling\Cherrywood Solar - 2390R001\Revised Title Block\05-2390R Landscape Buffer Options Border.dwg Feb 24, 2023 - 11:13am mcck

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LANDSCAPE BUFFER PLANT SCHEDULE

SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
			EVERGREEN TREES			
	✓	IO	ILEX Nellie R. Stevens	NELLIE R. STEVENS HOLLY	3–4' Ht., B&B	
	✓	JV	JUNIPERUS virginiana	EASTERN RED CEDAR	6–7' Ht., B&B	
	✓	PS	PINUS strobus	EASTERN WHITE PINE	6–7' Ht., B&B	
	✓	PV	PINUS virginiana	VIRGINIA PINE	6–7' Ht., B&B	
						Total: 5507
			DECIDUOUS SHADE TREES			
	✓	AR	ACER rubrum	RED MAPLE	2" Cal., B&B	
	✓	LS	LIQUIDAMBAR styraciflua	SWEET GUM	2" Cal., B&B	
	✓	LT	LIRIODENDRON tulipifera	TULIP TREE	2" Cal., B&B	
	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	6–7' Ht., B&B	
	✓	QP	QUERCUS phellos	WILLOW OAK	2" Cal., B&B	
						Total: 1392
			DECIDUOUS UNDERSTORY TREES			
	✓	AC	AMELANCHIER canadensis	SERVICEBERRY	1" Cal., B&B	
	✓	CA	CARPINUS caroliniana	AMERICAN HORNBEAM	1" Cal., B&B	
	✓	CC	CERCIS canadensis	EASTERN REDBUD	1" Cal., B&B	
	✓	CF	CORNUS florida	DOGWOOD TREE	1" Cal., B&B	
	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	5'–6' Ht., B&B	
	✓	MS	MALUS sargentii	SARGENT CRAB	1" Cal., B&B	
						Total: 1424
			EVERGREEN SHRUBS			
		EK	EUONYMUS kiautschovicus 'MANHATTAN'	MANHATTAN EUONYMUS	3'–4' Ht., Cont.	
	✓	IG	ILEX glabra	INKBERRY	3'–4' Ht.,, Cont.	
		TM	TAXUS x media 'HICKSII'	HICK'S YEW	3'–4' Ht.,, Cont.	
		AG	ABELIA x grandiflora	GLOSSY ABELIA	3'–4' Ht., Cont.	
	✓	MC	MORELLA cerifera	NORTHERN BAYBERRY	3'–4' Ht., Cont.	
						Total: 5286
			DECIDUOUS SHRUBS			
	✓	AA	ARONIA arbutifolia	RED CHOKEBERRY	24"–36", B&B	
	✓	CL	CALLICARPA cmericana	AMERICAN BEAUTY BUSH	24"–36", B&B	
	✓	HV	HAMAMELIA virginiana	WITCH HAZEL	24"–36", B&B	
	✓	VD	VIBURNUM dentatum	SOUTHERN ARROWWOOD	24"–36", B&B	
						Total: 4143
			WILDFLOWER/GRASSES			
	✓	AV	ANDROPOGON virginicus	BROM SEDGE	#1 Cont.	
		MI	MISCANTHUS sinensis 'GRACILLIMUS'	MAIDEN GRASS	#1 Cont.	
		PA	PANICUM virgatum'NORTHWIND'	SWITCHGRASS 'NORTHWIND'	#1 Cont.	
						Total: 5384
	✓	PM	POLLINATOR MIX	ERNEST SEED COMPANY ERNMX-168	DETERMINED BY POLLINATOR MIX MANUFACTURER'S RECOMMENDATIONS	5 LBS/ACRE (3.70 ACRES)

NOTE: FINAL SELECTION OF LANDSCAPE BUFFER PLANTINGS TO BE DETERMINED DURING PROCUREMENT AND BASED ON AVAILABILITY. ANY MODIFICATIONS AND/OR SUBSTITUTIONS OF PLANT MATERIALS MUST BE SUBMITTED TO CAROLINE COUNTY FOR REVIEW AND APPROVAL.

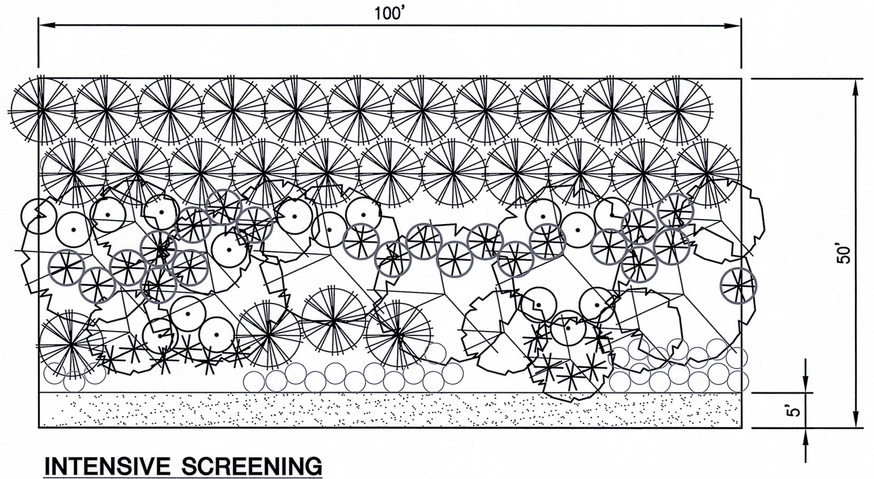
LANDSCAPE BUFFER POLLINATOR MIX

Landscape Buffer Seed Mix (VA Solar Pollinator Buffer Mix [ERNMX-620] or Equivalent)		
Species	Scientific Name	% of Mix PLS
Little Bluestem	*Schizachyrium scoparium*	36.4 %
Sideoats Grama	*Bouteloua curtipendul*	36.3 %
	Graminoids Total	**72.7%**
Partridge Pea	*Chamaecrista fasciculata*	4.0 %
Lanceleaf Coreopsis	*Coreopsis lanceolata*	4.0 %
Purple Coneflower	*Echinacea purpurea*	4.0 %
Blackeyed Susan	*Rudbeckia hirta*	3.3 %
Oxeye Sunflower	*Heliopsis helianthoides*	2.3 %
Butterfly Milkweed	*Asclepias tuberosa*	2.0 %
Tall White Beardtongue	*Penstemon digitalis*	1.1 %
Marsh Blazing Star	*Liatris spicata*	1.0 %
Wild Senna	*Senna hebecarpa*	0.7 %
Smooth Blue Aster	*Aster laevis*	0.5 %
New England Aster	*Aster novae-angliae*	0.5 %
Mistflower	*Eupatorium coelestinum*	0.5 %
White Avens	*Geum canadense*	0.5 %
Roundhead Lespedeza	*Lespedeza capitata*	0.5 %
Wild Bergamot	*Monarda fistulosa*	0.5 %
Golden Alexander	*Zizia aurea*	0.5 %
Blue False Indigo	*Baptisia australis*	0.3 %
Ohio Spiderwort	*Tradescantia ohiensis*	0.3 %
Hairy Beardtongue	*Penstemon hirsutus*	0.2 %
Narrowleaf Mountainmint	*Pycnanthemum tenuifolium*	0.2 %
Sundrops	*Oenothera fruticosa* var. *fruticosa*	0.1 %
Orange Coneflower	*Rudbeckia fulgida* var. *fulgida*	0.1 %
Early Goldenrod	*Solidago juncea*	0.1 %
Culver's Root	*Veronicastrum virginicum*	0.1 %
	Total Forbs and Legumes	**27.3 %**
	Total Graminoids, Forbs, and Legumes	**100 %**

***Apply seed mix at a rate of 20 lbs/acre. For a cover crop use either seed oats (*Avena sativa*) if planting from Jan 1 to Jul 31 or cereal rye (*Secale cereale*) if planting from Aug 1 to Dec 31. Cover crop should be planted at a rate of 30 lbs/acre.**

** Renderings are examples only and not site specific.*

** Renderings are intended to depict the appearance of the various options three (3) years after planting.*



INTENSIVE SCREENING
TYPICAL LANDSCAPE BUFFER (100' x 50')

NOT TO SCALE

DAVIS, BOWEN & FRIEDEL, INC.
ARCHITECTS ENGINEERS SURVEYORS
SALISBURY, MARYLAND (410) 543-9091
MILFORD, DELAWARE (302) 424-1441
EASTON, MARYLAND (410) 770-4744

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. 31100, Expiration Date: 01-21-25.

LANDSCAPE BUFFER VISUAL REPRESENTATIONS

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
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- JUNE 2018: COUNTY COMMENTS
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- JUNE 2024: SITE PLAN SUBMITTAL

Date: MARCH 2018
Scale: NONE
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: L-3

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LANDSCAPE BUFFER POLLINATOR MIX

Landscape Buffer Seed Mix (VA Solar Pollinator Buffer Mix [ERNMX-620] or Equivalent)		
Species	Scientific Name	% of Mix PLS
Little Bluestem	*Schizachyrium scoparium*	36.4 %
Sideoats Grama	*Bouteloua curtipendul*	36.3 %
	Graminoids Total	72.7%
Partridge Pea	*Chamaecrista fasciculata*	4.0 %
Lanceleaf Coreopsis	*Coreopsis lanceolata*	4.0 %
Purple Coneflower	*Echinacea purpurea*	4.0 %
Blackeyed Susan	*Rudbeckia hirta*	3.3 %
Oxeye Sunflower	*Heliopsis helianthoides*	2.3 %
Butterfly Milkweed	*Asclepias tuberosa*	2.0 %
Tall White Beardtongue	*Penstemon digitalis*	1.1 %
Marsh Blazing Star	*Liatris spicata*	1.0 %
Wild Senna	*Senna hebecarpa*	0.7 %
Smooth Blue Aster	*Aster laevis*	0.5 %
New England Aster	*Aster novae-angliae*	0.5 %
Mistflower	*Eupatorium coelestinum*	0.5 %
White Avens	*Geum canadense*	0.5 %
Roundhead Lespedeza	*Lespedeza capitata*	0.5 %
Wild Bergamot	*Monarda fistulosa*	0.5 %
Golden Alexander	*Zizia aurea*	0.5 %
Blue False Indigo	*Baptisia australis*	0.3 %
Ohio Spiderwort	*Tradescantia ohiensis*	0.3 %
Hairy Beardtongue	*Penstemon hirsutus*	0.2 %
Narrowleaf Mountainmint	*Pycnanthemum tenuifolium*	0.2 %
Sundrops	*Oenothera fruticosa* var. *fruticosa*	0.1 %
Orange Coneflower	*Rudbeckia fulgida* var. *fulgida*	0.1 %
Early Goldenrod	*Solidago juncea*	0.1 %
Culver's Root	*Veronicastrum virginicum*	0.1 %
	Total Forbs and Legumes	27.3 %
	Total Graminoids, Forbs, and Legumes	100 %

*Apply seed mix at a rate of 20 lbs/acre. For a cover crop use either seed oats (*Avena sativa*) if planting from Jan 1 to Jul 31 or cereal rye (*Secale cereale*) if planting from Aug 1 to Dec 31. Cover crop should be planted at a rate of 30 lbs/acre.

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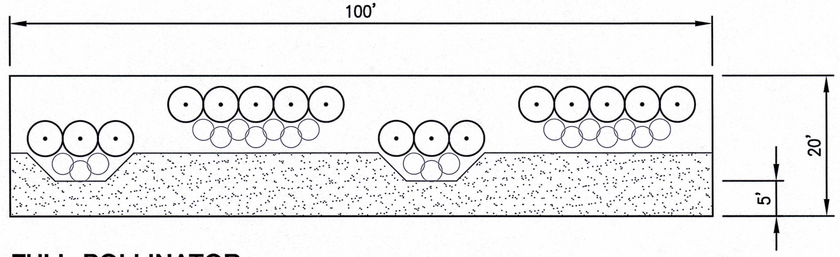

FULL POLLINATOR
TYPICAL LANDSCAPE BUFFER (100' x 20')

NOT TO SCALE

LANDSCAPE BUFFER FULL POLLINATOR HABITAT PLANT SCHEDULE

SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
			WILDFLOWER/GRASSES			
	✓	AV	ANDROPOGON virginicus	BROM SEDGE	#1 Cont.	
		MI	MISCANTHUS sinensis 'GRACILLIMUS'	MAIDEN GRASS	#1 Cont.	
		PA	PANICUM virgatum'SHENANDOAH'	SWITCHGRASS 'SHENANDOAH'	#1 Cont.	
						Total: 4681
	✓	PM	POLLINATOR MIX	ERNEST SEED COMPANY ERNMX-188	DETERMINED BY POLLINATOR MIX MANUFACTURER'S RECOMMENDATIONS	5 LBS/ACRE (2.42 ACRES)

NOTE: FINAL SELECTION OF LANDSCAPE BUFFER PLANTINGS TO BE DETERMINED DURING PROCUREMENT AND BASED ON AVAILABILITY.

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ARCHITECTS ENGINEERS SURVEYORS
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MILFORD, DELAWARE (302) 424-1441
EASTON, MARYLAND (410) 770-4744

LANDSCAPE BUFFER VISUAL REPRESENTATIONS

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

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Scale:	NONE
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	L-4

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LANDSCAPE BUFFER PLANT SCHEDULE

SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
			EVERGREEN TREES			
	✓	IO	ILEX Nellie R. Stevens	NELLIE R. STEVENS HOLLY	3–4' Ht., B&B	
	✓	JV	JUNIPERUS virginiana	EASTERN RED CEDAR	6–7' Ht., B&B	
	✓	PS	PINUS strobus	EASTERN WHITE PINE	6–7' Ht., B&B	
	✓	PV	PINUS virginiana	VIRGINIA PINE	6–7' Ht., B&B	
						Total: 5507
			DECIDUOUS SHADE TREES			
	✓	AR	ACER rubrum	RED MAPLE	2" Cal., B&B	
	✓	LS	LIQUIDAMBAR styraciflua	SWEET GUM	2" Cal., B&B	
	✓	LT	LIRIODENDRON tulipifera	TULIP TREE	2" Cal., B&B	
	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	6–7' Ht., B&B	
	✓	QP	QUERCUS phellos	WILLOW OAK	2" Cal., B&B	
						Total: 1392
			DECIDUOUS UNDERSTORY TREES			
	✓	AC	AMELANCHIER canadensis	SERVICEBERRY	1" Cal., B&B	
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	✓	MS	MALUS sargentii	SARGENT CRAB	1" Cal., B&B	
						Total: 1424
			EVERGREEN SHRUBS			
		EK	EUONYMUS kiautschovicus 'MANHATTAN'	MANHATTAN EUONYMUS	3'–4' Ht., Cont.	
	✓	IG	ILEX glabra	INKBERRY	3'–4' Ht.,, Cont.	
		TM	TAXUS x media 'HICKSII'	HICK'S YEW	3'–4' Ht.,, Cont.	
		AG	ABELIA x grandiflora	GLOSSY ABELIA	3'–4' Ht., Cont.	
	✓	MC	MORELLA cerifera	NORTHERN BAYBERRY	3'–4' Ht., Cont.	
						Total: 5286
			DECIDUOUS SHRUBS			
	✓	AA	ARONIA arbutifolia	RED CHOKEBERRY	24"–36", B&B	
	✓	CL	CALLICARPA americana	AMERICAN BEAUTY BUSH	24"–36", B&B	
	✓	HV	HAMAMELIA virginiana	WITCH HAZEL	24"–36", B&B	
	✓	VD	VIBURNUM dentatum	SOUTHERN ARROWWOOD	24"–36", B&B	
						Total: 4143
			WILDFLOWER/GRASSES			
	✓	AV	ANDROPOGON virginicus	BROM SEDGE	#1 Cont.	
		MI	MISCANTHUS sinensis 'GRACILLIMUS'	MAIDEN GRASS	#1 Cont.	
		PA	PANICUM virgatum'NORTHWIND'	SWITCHGRASS 'NORTHWIND'	#1 Cont.	
						Total: 5384
	✓	PM	POLLINATOR MIX	ERNEST SEED COMPANY ERNMX–168	DETERMINED BY POLLINATOR MIX MANUFACTURER'S RECOMMENDATIONS	5 LBS/ACRE (3.70 ACRES)

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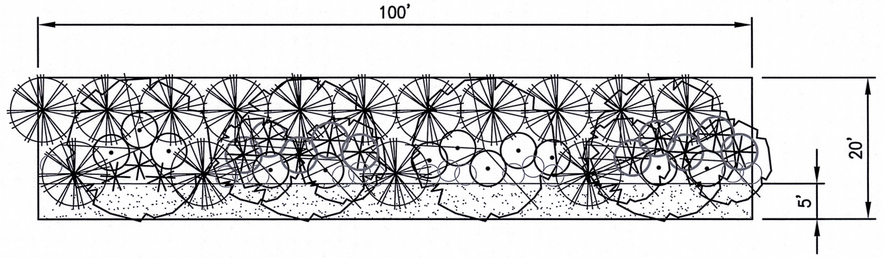

FULL SCREENING
TYPICAL LANDSCAPE BUFFER (100' x 20')

NOT TO SCALE

** Renderings are examples only and not site specific.*

** Renderings are intended to depict the appearance of the various options three (3) years after planting.*

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. 31100, Expiration Date: 01-21-25.

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ELKTON, MARYLAND (410) 392-1061

LANDSCAPE BUFFER VISUAL REPRESENTATIONS

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

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Date: MARCH 2018
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Dwg.No.: L-5

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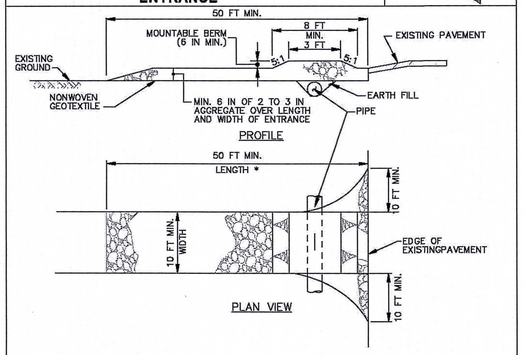
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

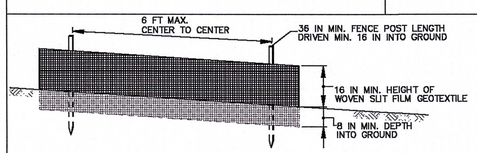
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

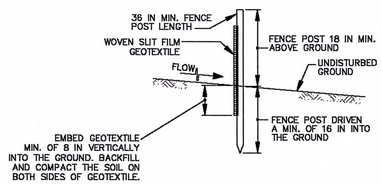
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

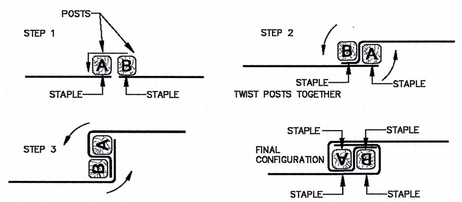
STANDARD SYMBOL: SF



ELEVATION



CROSS SECTION



JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SEQUENCE OF CONSTRUCTION

1. CONTRACTOR SHALL NOTIFY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) 410-537-3510 AND CAROLINE SOIL CONSERVATION DISTRICT 410-479-1202, EXT. 3 AT LEAST 14 DAYS PRIOR TO COMMENCING ANY DISTURBING OR GRADING ACTIVITY AND, UNLESS WAIVED BY THE ADMINISTRATION, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF MDE - WMA.
2. CONTRACTOR TO REFER AND ADHERE TO ALL SEDIMENT AND STORMWATER MANAGEMENT NOTES AND DETAILS AS SHOWN HEREON.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
4. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS.
5. PROVIDE SURVEY AND LAYOUT OF THE LIMITS OF DISTURBANCE (LOD), INCLUDING SILT FENCE AND ALL BUFFERS. THE LOD AND BUFFERS MUST BE FIELD MARKED PRIOR TO CLEARING TREES, INSTALLATION OF SEDIMENT CONTROLS OR OTHER LAND DISTURBING ACTIVITIES.
6. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THE STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
7. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE (SF) ACCORDING TO PLAN. THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT ALL REQUESTS MADE BY THE CAROLINE SOIL CONSERVATION DISTRICT OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR ADDITIONAL SEDIMENT CONTROL MEASURES, OTHER THAN WHAT IS SHOWN ON THE SITE PLANS, DURING CONSTRUCTION.
8. CONTRACTOR SHALL COMPLETE THE CONSTRUCTION OF THE SOLAR ARRAY FIELD, ACCESS ROAD, PV RACK SUPPORTING POSTS, RACKING SYSTEM. PV PANELS AND ASSOCIATED CABLING, CONDUITS, INVERTER, TRANSFORMERS AND PERIMETER FENCING.
9. CONTRACTOR SHALL NOT DISTURB MORE AREA THEN THEY CAN STABILIZE IN 7 CALENDAR DAYS. NO MORE THAN 30 ACRES WITHIN EACH WORK AREA SHALL BE DISTURBED AT ANY TIME.
10. ALL DISTURBED PERVIOUS AREAS SHALL BE STABILIZED AND HYDROSEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION. WITH THE APPROVAL OF THE INSPECTOR, CONTRACTOR TO REMOVE ALL TEMPORARY SEDIMENT CONTROLS INCLUDING SILT FENCE.
11. AT A MINIMUM, THE CONTRACTOR MUST OBTAIN A CONDITIONAL APPROVAL FROM THE MDE INSPECTOR, CAROLINE SCD, AND THE OWNER BEFORE DE-MOBILIZING FROM THE PROJECT SITE.

SEDIMENT & EROSION CONTROL GENERAL NOTES

1. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
2. APPROVAL OF PLANS REMAIN VALID FOR 2 YEARS FROM THE DATE OF APPROVAL, WITH THE EXCEPTION OF SURFACE MINE AND LANDFILL PLANS WHICH REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL UNLESS SPECIFICALLY EXTENDED OR RENEWED BY THE APPROVAL AUTHORITY.
3. A MARYLAND DEPARTMENT OF THE ENVIRONMENT NOTICE OF INTENT (NOI) GENERAL PERMIT FOR CONSTRUCTION ACTIVITY IS REQUIRED FOR ALL CONSTRUCTION ACTIVITY IN MARYLAND WITH A PLANNED TOTAL DISTURBANCE OF 1 ACRE OR MORE.
4. AN INSPECTION MUST BE PERFORMED ONSITE OF ALL SEDIMENT CONTROLS ON A WEEKLY BASIS AND AFTER EVERY RAINFALL EVENT. ALL SELF INSPECTIONS MUST BE MAINTAINED ALONG WITH THE APPLICABLE GOVERNING AGENCY INSPECTION REPORTS IN A LOG BOOK, TO BE KEPT ONSITE AT ALL TIMES.
5. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ x 1¾ ± ⅛ INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID–SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H–1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

OPERATION & MAINTENANCE FOR OPEN AREAS

SITE PREPARATION:

TO PREPARE FOR CIVIL CONSTRUCTION ACTIVITIES THE OPERATIONS AND MAINTENANCE CONTRACTOR WILL MOW THE EXISTING VEGETATIVE COVER AT THE SITE TO A HEIGHT OF 4" TO 6". PRIOR TO CONSTRUCTION, SEEDING OF HARDY SELF-SEEDING VARIETIES WILL BE COMPLETED OR PROVIDE EQUIVALENT SEEDING/STABILIZATION METHODS PRIOR TO CONSTRUCTION. INSTALLATION OF THE ARRAY FIELD ELEMENTS WILL THEN COMMENCE ON A TRIMMED AND MAINTAINED VEGETATIVE COVER. THERE WILL BE NO TREE CLEARING, CUTTING, FILLING, OR MAJOR SITE GRADING.

UPON COMPLETION OF THE ARRAY ELEMENTS, DURING THE FALL PERMANENT SEEDING TIME CONSTRAINTS OF AUGUST 15TH TO OCTOBER 15TH, THE CONTRACTOR SHALL SEED (USING HYDROSEEDING) IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, STANDARD B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING. MULCHING AND MULCH ANCHORING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE SAME STANDARD, AGAIN USING HYDROSEEDING BROADCASTING EQUIPMENT.

THE CONTRACTOR WILL MAKE EVERY EFFORT TO ACHIEVE THE REQUIRED OVERSEEDING PRIOR TO CONSTRUCTION ACTIVITIES TO STABILIZE THE SITE, IF REQUIRED.

SITE WILL BE MONITORED AND MAINTAINED UNTIL ACCEPTABLE, PERMANENT VEGETATIVE STABILIZATION HAS BEEN ACCEPTED BY THE SOIL CONSERVATION DISTRICT.

CONDUCT SOIL TESTING TO DETERMINE THE NECESSARY SOIL AMENDMENTS. THE APPLICATION RATES OF FERTILIZER AND LIME SHOULD BE ACCORDING TO THE RECOMMENDATIONS OF THE ONSITE SOIL TESTS.

PLANNED GROUNDCOVER:
ERNST CONSERVATION SEEDS OFFERS TWO DIFFERENT SEED MIXES THAT MEET THE NEEDS OF THE PROJECT SITE. THE NATIVE/NATURALIZED SOLAR FARM SEED MIX - ERNMX-186-1 AND SOLAR FARM SEED MIX – ERNMX-186. BOTH MIXES CONTAIN LOW MAINTENANCE GRASSES THAT GROW LESS THAN TWO FEET TALL WITH THE EXCEPTION OF THE CHEWINGS FESCUE AND THE AUTUMN BENTGRASS THAT CAN REACH THREE FEET IN HEIGHT. SEEDING SHOULD BE AT A RATE OF 6 LB. PER 1,000 SQUARE FEET. AREAS DISTURBED DURING CONSTRUCTION, AS WELL AS ALL AREAS BELOW SOLAR PANELS, SHALL BE SEEDED AND/OR OVERSEEDED WITH THE SELECTED SEED MIX. MULTIPLE SEEDING TIMES MAY BE NECESSARY TO ESTABLISH ACCEPTABLE LEVEL OF COVERAGE. SEEDING SHOULD BE DONE AS SOON AS POSSIBLE AFTER CONSTRUCTION TO ESTABLISH A GROUND COVER SINCE WEEDS WILL TRY TO GROW.

SUPPLEMENTAL PLANTING CAN BE ACCOMPLISHED BY HYDROSEEDING. FALL SEEDING IS BEST. SEEDING TIMES ARE MARCH 1 TO MAY 15 OR AUGUST 15 TO OCTOBER 15. IMMEDIATELY AFTER SEEDING, UNIFORMLY MULCH ENTIRE AREA WITH UNWEATHERED SMALL GRAIN STRAW AT A RATE OF 92 LBS. PER 1,000 SQ. FT. MULCH TO BE ANCHORED WITH MULCH ANCHORING TOOL ON THE CONTOUR.

IN ADDITION TO THE SELECTED SEED MIX IDENTIFIED FOR SITE STABILIZATION, THE CONTRACTOR SHALL INCORPORATE WHITE CLOVER SEED MIX AS A POLLINATOR.

MAINTENANCE SCHEDULE:
1. THE SITE SHOULD BE MOWED IN EARLY SPRING BEFORE THE ONSET OF NEW GROWTH. GRASS SHOULD BE MOWED A MINIMUM OF THREES TIMES A YEAR. IT SHOULD BE DONE, AT A MINIMUM, IN THE EARLY SPRING AND ALSO IN MID TO LATE JUNE. GRASS SHOULD NEVER BE MOWED TO A HEIGHT OF LESS THAN 3 INCHES. THE REMOVAL OF CLIPPINGS CAN PREVENT BUILD-UP OF THATCH THAT SMOTHERS OUT THE GRASS AND INHIBITS WATER INFILTRATION. DUST CONTROL SHALL BE PROVIDED DURING THE CONSTRUCTION PERIOD BY UTILIZING A WATER TRUCK.
2. ALL CONSTRUCTED SWALES, INLETS AND PIPES ASSOCIATED WITH THIS PROJECT SHALL BE REGULARLY INSPECTED AND MAINTAINED THROUGHOUT THE YEAR TO MAKE SURE THEY ARE FUNCTIONING AND THAT NO BUILDUP OF GRASS CLIPPINGS OR OTHER DEBRIS IS PRESENT IN THE SYSTEM.

STANDARD STABILIZATION NOTE

FOLLOWING THE INITIAL SOIL DISTURBANCE OR RE-DISTRUBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

1. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERMANENT SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND,
2. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
3. NO MORE THAN 30 ACRES WITHIN EACH WORK AREA SHALL BE DISTURBED AT ANY TIME.
4. PER STATE CODE (COMAR 26.17.01 ESC REGULATIONS, 2017) WORK CAN PROCEED TO THE SUBSEQUENT GRADING AREA WHEN FIFTY PERCENT (50%) STABILIZATION OF THE PRECEDING GRADING AREA HAS BEEN ACHIEVED. UNDER STATE CODE, STABILIZATION OF A SITE REQUIRES VEGETATIVE COVER WITHIN THE PROPOSED LIMIT OF CONSTRUCTION TO PREVENT RUNOFF AND SEDIMENT AND EROSION VIOLATIONS. ANY AREAS WHERE WORK HAS BEEN SUSPENDED FOR SEVEN (7) DAYS OR MORE WILL NEED TO COMPLY WITH INTERIM STABILIZATION REQUIREMENTS CONSISTENT WITH THESE CODES.
5. INDIVIDUAL CONTROLS REQUIRED WITHIN EACH WORK AREA INCLUDING SILT FENCE AT BUFFERS.

LOWER SECTION SITE DATA

GROSS SITE:	876.39 ACRES
EXISTING IMPERVIOUS:	1.84 ACRES
LOD (TOTAL AREA WITHIN FENCE, INCLUDING LANDSCAPE BUFFER):	623.53 ACRES
BASE SITE:	9.85 ACRES
PROPOSED INVERTER PADS	0.31 ACRES
IMPROVED ROADWAY:	9.54 ACRES
20' WIDE LANDSCAPE BUFFER AREA - FULL SCREENING:	6.07 ACRES
20' WIDE LANDSCAPE BUFFER AREA - MODERATE SCREENING:	0.19 ACRES
50' WIDE LANDSCAPE BUFFER AREA - INTENSIVE SCREENING:	2.28 ACRES
20' WIDE LANDSCAPE BUFFER AREA - FULL POLLINATOR HABITAT:	1.90 ACRES
LANDSCAPE BUFFER AREA - FULL POLLINATOR MIX AREA:	6.18 ACRES
WETLAND BUFFER AREA REQUIRED (25' BUFFER):	4.38 ACRES
WETLAND BUFFER AREA PROPOSED (35' BUFFER):	6.64 ACRES
REMNANT DELMARVA BAY BUFFER REQUIRED (100' BUFFER)	2.46 ACRES
STREAM BUFFER AREA:	0.0 ACRES
WOODLAND BUFFER AREA:	0.0 ACRES

MIDDLE SECTION SITE DATA

GROSS SITE:	218.09 ACRES
EXISTING IMPERVIOUS:	1.45 ACRES
LOD (TOTAL AREA WITHIN FENCE INCLUDING LANDSCAPE BUFFER):	133.85 ACRES
BASE SITE:	1.69 ACRES
PROPOSED INVERTER PADS:	0.06 ACRES
IMPROVED ROADWAY:	1.63 ACRES
20' WIDE LANDSCAPE BUFFER AREA - FULL SCREENING:	1.69 ACRES
20' WIDE LANDSCAPE BUFFER AREA - MODERATE SCREENING:	1.67 ACRES
20' WIDE LANDSCAPE BUFFER AREA - FULL POLLINATOR HABITAT:	0.40 ACRES
WETLAND BUFFER AREA REQUIRED (25' BUFFER):	0.60 ACRES
WETLAND BUFFER AREA PROPOSED (35' BUFFER):	0.89 ACRES
STREAM BUFFER AREA:	0.0 ACRES
WOODLAND BUFFER AREA:	0.0 ACRES

UPPER SECTION SITE DATA

GROSS SITE:	441.42 ACRES
EXISTING IMPERVIOUS:	4.95 ACRES
LOD (TOTAL AREA WITHIN FENCE INCLUDING LANDSCAPE BUFFER):	301.62 ACRES
BASE SITE:	4.39 ACRES
PROPOSED INVERTER PADS:	0.12 ACRES
IMPROVED ROADWAY:	4.27 ACRES
20' WIDE LANDSCAPE BUFFER AREA - FULL SCREENING:	4.86 ACRES
20' WIDE LANDSCAPE BUFFER AREA - MODERATE SCREENING:	0.45 ACRES
50' WIDE LANDSCAPE BUFFER AREA - INTENSIVE SCREENING:	1.40 ACRES
20' WIDE LANDSCAPE BUFFER AREA - FULL POLLINATOR HABITAT:	3.67 ACRES
WETLAND BUFFER AREA REQUIRED (25' BUFFER):	0.0 ACRES
WETLAND BUFFER AREA PROPOSED (35' BUFFER):	0.0 ACRES
STREAM BUFFER AREA:	0.0 ACRES
WOODLAND BUFFER AREA:	0.0 ACRES

Seed Mix shall be ERNMX-186 or Approved Equal.

Solar Array Area Mix CUSTOMIZED Solar Farm Seed Mix (ERNMX-186 Base Mix or Equivalent)		
Species	Scientific Name	% of Mix PLS
Purple Love Grass	*Eragrostis spectabilis*	0.5%
Creeping Red Fescue	*Festuca rubra*	45.5 %
Hard Fescue	*Festuca longifolia* 'Sword II'	15.0 %
Hard Fescue	*Festuca ovina* var. *duriusula* 'Jetty'	15.0 %
Chewings Fescue	*Festuca rubra* ssp. *commutata*	10.0 %
Kentucky Bluegrass	*Poa pratensis* 'Argyle'	5.0 %
Kentucky Bluegrass	*Poa pratensis* 'Selway'	5.0 %
	Graminoids Total	**96.0 %**
Dutch White Clover	*Trifolium repens*	4.0%
	Total Graminoids, Forbs, and Legumes	**100.00%**

*Apply this mix at a rate of 4 lbs/1,000 sq ft. Use a cover crop per the SWPPP.

GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY

THE FOLLOWING ITEMS HAVE BEEN ADDRESSED TO MEET THE REQUIREMENTS OF THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (NPDES NUMBER MDR10, STATE DISCHARGE PERMIT NUMBER 09GP).

1.) UTILIZATION OF ENVIRONMENTAL SITE DESIGN
2.) MAINTENANCE OF LIMITS OF DISTURBANCE TO PROTECT NATURAL AREAS
3.) CONTROL OF CONSTRUCTION EQUIPMENT AND VEHICLES
4.) EVALUATION AND APPROPRIATE LIMITATION OF SITE CLEARING
5.) EVALUATION AND DESIGNATION OF SITE AREA FOR PHASING OR SEQUENCING
6.) IDENTIFICATION OF SOILS AT HIGH RISK FOR EROSION AND ADVANCED STABILIZATION TECHNIQUES TO BE USED
7.) IDENTIFICATION OF STEEP SLOPES AND DESIGNATION OF LIMITATIONS ON CLEARING THEM
8.) EVALUATION AND DESIGNATION OF STABILIZATION REQUIREMENTS AND TIME LIMITS AND PROTECTION MEASURES FOR DISCHARGES TO THE CHESAPEAKE BAY, IMPAIRED WATERS OR WATERS WITH AN ESTABLISHED TOTAL MAXIMUM DAILY LOAD (TMDL).

WET SWALE CONSTRUCTION CRITERIA

Erosion and Sediment Control: Swales are often used for conveying runoff to sediment trapping devices during site construction. Care should be taken to ensure proper construction where stormwater management swales are used for this purpose. After the drainage area is completely stabilized, accumulated sediment should be removed and the swale excavated to the required dimensions. Any required infrastructure (e.g., check dams, underdrains) may then be installed, the bottom and side slopes scarified, and a good stand of vegetation established.

1. Permeable soil mixture (20" to 30" deep) should meet the bioretention "planting" soil specifications.
2. Check dams, if required, shall be placed as specified.
3. System to have 6" of freeboard, minimum above 10 year water surface elevation.
4. Side slopes to be 3:1 maximum; (4:1 or flatter is preferred).
5. No gravel or perforated pipe is to be placed under driveways.
6. Seed with flood/drought resistant grasses; see Appendix A, Section 2.4.
7. Longitudinal slope to be 4%, maximum.
8. Bottom width to be 8' maximum to avoid braiding; larger widths may be used if proper berming is supplied. Width to be 2' minimum.

REVIEWED FOR THE CAROLINE SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

APPROVED:

_____ _____
CAROLINE SOIL CONSERVATION DISTRICT DISTRICT MANAGER — DATE

NOTE: THE CAROLINE SOIL CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

OWNERS CERTIFICATION

_____ _____
OWNERS SIGNATURE — DATE

Owners Name:_____

Owners Address:_____

_____

Owners Phone:_____

1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN. ANY CHANGES MADE ON THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL PLACE RESPONSIBILITY FOR SAID CHANGE ON THE CONTRACTOR OR SUBCONTRACTOR.
2. ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT THE DEPARTMENT OF ENVIRONMENT APPROVED TRAINING FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT.

DAVIS, BOWEN & FRIEDEL, INC.
ARCHITECTS ENGINEERS SURVEYORS
SALISBURY, MARYLAND (410) 543-9091
MILFORD, DELAWARE (302) 424-1441
EASTON, MARYLAND (410) 770-4744

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. 31100, Expiration Date: 01–21–25.

EROSION & SEDIMENT CONTROL NOTES & DETAILS

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
- OCT 2018: SITE PLAN SUBMITTAL
- OCT 2022: SITE PLAN SUBMITTAL
- FEB 2023: SITE PLAN SUBMITTAL
- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL

Date: MARCH 2018
Scale: NONE
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.: ESC-1

L:\2390r001 cherrywood i solar\DESIGN\DWGs\10-2390R ESC-1 Notes.dwg Jun 06, 2024 - 6:09pm lapj

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N/F
Map 14, Parcel 68
Tom Steel and
Judy Steele
726/333

N/F
Map 14, Parcel 15
James D Martin and
Rebecca A Martin
425/916

CEDAR LN

N/F
Map 14, Parcel 146
Ruth N Bautista Vasquez and
Winston J Hernandez Rodriguez
1150/379

N/F
Map 14, Parcel 11
William L Kinnamon and
Gladys S Kinnamon
861/542

N/F
Map 14, Parcel 38
Carol Ann Patchett Trustees and
Brett R Patchett Trustees
1232/225

N/F
Map 302, Parcel 988
Bayland Inc.
684/261

N/F
Map 14, Parcel 82
William P Porter and
Ruth A Porter
214/216

N/F
Map 14, Parcel 77, Lot 2
Joshua M Marshall and
Michelle L Marshall
1068/344

N/F
Map 14, Parcel 77, Lot 1
James E Stubbs Jr and
Karen A Kellowski
974/404

N/F
Map 14, Parcel 73
James F Siebold and
Leslie Ann Siebold
513/646

N/F
Map 14, Parcel 75
James F Siebold and
Leslie Ann Siebold
513/646

N/F
Map 14, Parcel 70
James F Siebold and
Leslie Ann Siebold
513/646

N/F
Map 14, Parcel 71
Milton J Myers
211/128

N/F
Map 300, Parcel 1235
Caroline County Board
of Education
176/386

N/F
Map 14, Parcel 7
Guy A Murphy Sr and Mary Lou
Murphy
1250/353

N/F
Map 14, Parcel 160
James A Harvey and Lisa W
Harvey
333/996

N/F
Map 10, Parcel 19
William H Wear Jr and Robert P
Wear
812/608

0 500' 1000'

APPROX. 7.28 ACRE CONSTRUCTION STAGING / LAYOUT AREA

APPROX. 1.97 ACRE CONSTRUCTION STAGING / LAYOUT AREA

PROPOSED STOCKPILE AREA W/ SILT FENCE

BUILDING RESTRICTION LINE, TYP.

35' WOODS LINE BUFFER, TYP.

WORK AREA NO. 1

APPROX. 5.45 ACRE CONSTRUCTION STAGING / LAYOUT AREA

PROPOSED STOCKPILE AREA W/ SILT FENCE

Map 14, Parcel 16

Map 14, Parcel 8

WETLAND, TYP.

REMNANT OF THE DELAWARE BAY

100' BUFFER

N MAIN STREET (MD 480)

UNION ROAD

APPROX. 1.82 ACRE CONSTRUCTION STAGING / LAYOUT AREA

STABILIZED CONSTRUCTION ENTRANCE

APPROX. 3.68 ACRE CONSTRUCTION STAGING / LAYOUT AREA

APPROX. 6.82 ACRE CONSTRUCTION STAGING / LAYOUT AREA

35' WETLAND BUFFER, TYP.

PROPOSED STOCKPILE AREA W/ SILT FENCE

APPROX. 0.21 ACRE CONSTRUCTION STAGING / LAYOUT AREA

APPROX. 1.29 ACRE CONSTRUCTION STAGING / LAYOUT AREA

PROPOSED STOCKPILE AREA W/ SILT FENCE

Map 15, Parcel 67
Area "A"

Map 15, Parcel 67
Area "B"

N/F
Map 15, Parcel 105
Dennis I Dill and
Mary M Gallagher
589/61

N/F
Map 15, Parcel 135
Commissioners of
Caroline County
1196/478

STABILIZED CONSTRUCTION ENTRANCE

GREENSBORO ROAD (MD 313)

ROAD CENTERLINE, TYP.

CRITICAL AREA BOUNDARY

WORK AREA NO. 2

Map 15, Parcel 67
Area "C"

Map 15, Parcel 67
Area "D"

N/F
Map 15, Parcel 60
Carole A Quimby
230/796

N/F
Map 11, Parcel 159
Joseph Brian Smith and
Penny L Smith
458/967

N/F
Map 11, Parcel 109
William C Griffin
372/521

N/F
Map 11, Parcel 144
David L Mitchell
385/680

N/F
Map 11, Parcel 48
East Star LLC
343/351

N/F
Map 11, Parcel 115
George Melvin Cowgill Jr
and Suzanne H Cowgill
184/479

N/F
Map 11, Parcel 81
Bryan E Zuravnsky and
Carolyn S Zuravnsky
526/200

N/F
Map 11, Parcel 49
Selvin Y Cordova and
Nohemi Fuentes De Cordova
1110/395

BRIDGETOWN ROAD

RED BRIDGES ROAD

Map 15, Parcel 67
Area "E"

N/F
Map 15, Parcel 15
Leslie A Lepore and
Joan C Lepore
439/858

Map 15, Parcel 66
Area "A"

APPROX. 7.52 ACRE CONSTRUCTION STAGING / LAYOUT AREA

STABILIZED CONSTRUCTION ENTRANCE

N/F
Map 11, Parcel 137
William N Smith and
Mary Ellen Smith
209/823

N/F
Map 11, Parcel 18
Myers Skinner and
Patty R Skinner
806/403

N/F
Map 11, Parcel 157
William James Yeager Jr
and Mary Alice Yeager
313/818

STABILIZED CONSTRUCTION ENTRANCE

N/F
Map 11, Parcel 6
Nobie T Jarrell Jr and
Mary E Jarrell
179/454

APPROX. 5.64 ACRE CONSTRUCTION STAGING / LAYOUT AREA

N/F
Map 15, Parcel 68
John H Brown Trustee and
Robert H Jarrell Trustee
1087/157

N/F
Map 15, Parcel 26
Commissioners of
Caroline County
164/386

DELMARVA POWER & LIGHT RIGHT-OF-WAY

Map 15, Parcel 68
Area "B"

PROPOSED STOCKPILE AREA W/ SILT FENCE

N/F
Map 11, Parcel 101
Ronald Siamicki and
Janet Siamicki
626/479

Map 11, Parcel 51
Area "B"

APPROX. 3.67 ACRE CONSTRUCTION STAGING / LAYOUT AREA

Map 15, Parcel 66
Area "C"

APPROX. 3.78 ACRE CONSTRUCTION STAGING / LAYOUT AREA

WORK AREA NO. 3

Map 11, Parcel 51
Area "A"

PROPOSED STOCKPILE AREA W/ SILT FENCE

WORK AREA NO. 4

APPROX. 0.70 ACRE CONSTRUCTION STAGING / LAYOUT AREA

APPROX. 3.63 ACRE CONSTRUCTION STAGING / LAYOUT AREA

PROPOSED STOCKPILE AREA W/ SILT FENCE

Map 11, Parcel 7

APPROX. 3.24 ACRE CONSTRUCTION STAGING / LAYOUT AREA

APPROX. 0.51 ACRE CONSTRUCTION STAGING / LAYOUT AREA

APPROX. 0.42 ACRE CONSTRUCTION STAGING / LAYOUT AREA

N/F
Map 15, Parcel 87 Lot 4A
Kurt Eric Mielke and
Kelly Ann Mielke
574/63

N/F
Map 15, Parcel 87, Lot 4A
James Phillip Porter and
Cindy Lou Porter
230/419

N/F
Map 15, Parcel 87, Lot 4D
James Phillip Porter and
Cindy Lou Porter
230/419

N/F
Map 11, Parcel 83
George H Caple and
Frieda P Caple
164/675

N/F
Map 11, Parcel 162
Johnathon O Merson and
Tammy Lynn Merson
929/423

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LOWER SECTION PHASING PLAN

CHERRYWOOD SOLAR PROJECT

Cherrywood Solar I, LLC

Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
- OCT 2018: SITE PLAN SUBMITTAL
- OCT 2022: SITE PLAN SUBMITTAL
- FEB 2023: SITE PLAN SUBMITTAL
- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL
- JULY 2024: GRADING PLAN

Date:	MARCH 2018
Scale:	1' = 500'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	ESC-2

N/F
Map 10, Parcel 135, Lot 1
David E Hall and
Kelly M Hall
430/416

N/F
Map 10, Parcel 135, Lot 2
Thomas N Tarr and
Betty Jo Tarr
239/22

N/F
Map 10, Parcel 35
Curtis McClanathan
458/894

N/F
Map 10, Parcel 115
Joseph R Citro and
Kyle M Citro
1249/168

N/F
Map 10, Parcel 112
Hope S Brown and
Kimberly L Brown
441/168

N/F
Map 10, Parcel 5
Shore Land Trust LLC
1186/4

PARADISE LANE

Map 10, Parcel 34

N/F
Map 10, Parcel 97
Walter M Johnson Jr
and Vivian Johnson
163/175

N/F
Map 10, Parcel 38
John K Durner and
Susan E Durner
227/435

N/F
Map 10, Parcel 141
John B Bishop
888/183

Map 10, Parcel 25
Area "A"

N/F
Map 10, Parcel 7
Garnie G Drinnon II and
Shannon R Drinnon
1276/132

N/F
Map 10, Parcel 10
James A Faulkner
469/139

WHARTON ROAD

N/F
Map 10, Parcel 9
William H Weer Jr and
Robert P Weer
202/506

APPROX. 1.94 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

APPROX. 0.38 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

STABILIZED
CONSTRUCTION
ENTRANCE

Map 10, Parcel 25
Area "B"

WORK AREA
NO. 1

WETLAND, TYP.

APPROX. 0.92 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

PROPOSED STOCKPILE
AREA W/ SILT FENCE

N/F
Map 10, Parcel 87
Eugene M Porter
1248/128

N/F
Map 10, Parcel 144
Robert C Wenk and
Diane K Wenk
282/28

BRIDGETOWN ROAD

ROAD CENTERLINE, TYP.

Map 10, Parcel 11
Area "A"

35' WOODS LINE
BUFFER, TYP.

35' WETLAND
BUFFER, TYP.

Map 10, Parcel 11
Area "B"

PROPOSED STOCKPILE
AREA W/ SILT FENCE

APPROX. 1.07 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

APPROX. 0.68 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

APPROX. 0.88 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

BUILDING
RESTRICTION
LINE, TYP.

STABILIZED
CONSTRUCTION
ENTRANCE

WORK AREA
NO. 2

APPROX. 1.39 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

APPROX. 1.01 ACRE CONSTRUCTION
STAGING / LAYOUT AREA

CHURCH LANE

N/F
Map 11, Parcel 171
State of Maryland SHA
1135/231

N/F
Map 11, Parcel 151
Margo Kochler
997/232

N/F
Map 11, Parcel 19
Shirley M Cook and
Candy A Cook
1245/489

N/F
Map 10, Parcel 64
Mabel Levengood Trustee
977/322

DAVIS ROAD

N/F
Map 10, Parcel 14
James A Faulkner
469/139

0 200' 400'

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MIDDLE SECTION PHASING PLAN

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
- OCT 2018: SITE PLAN SUBMITTAL
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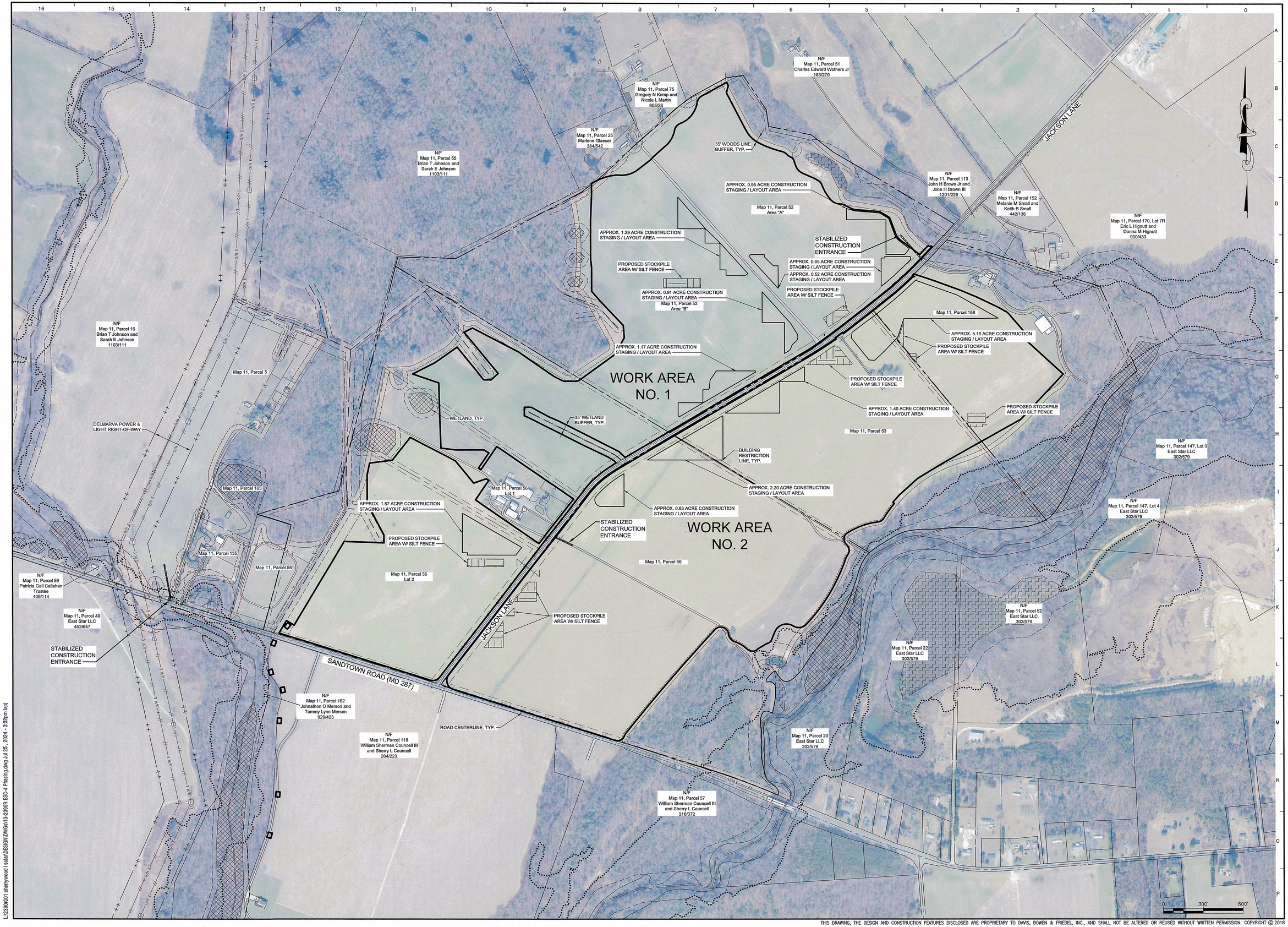
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL
- JULY 2024: GRADING PLAN

Date: MARCH 2018
Scale: 1" = 200'
Dwn.By: SMS
Proj.No.: 2390R001.A01
Dwg.No.:

ESC-3



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UPPER SECTION PHASING PLAN

CHERRYWOOD SOLAR PROJECT
Cherrywood Solar I, LLC
Caroline County, Maryland

Revisions:
- APRIL 2018: COUNTY COMMENTS
- JUNE 2018: COUNTY COMMENTS
- OCT 2018: SITE PLAN SUBMITTAL
- OCT 2022: SITE PLAN SUBMITTAL
- FEB 2023: SITE PLAN SUBMITTAL
- OCT 2023: SITE PLAN SUBMITTAL
- APR 2024: SITE PLAN SUBMITTAL
- JUNE 2024: SITE PLAN SUBMITTAL
- JULY 2024: GRADING PLAN

Date:	MARCH 2018
Scale:	1' = 300'
Dwn.By:	SMS
Proj.No.:	2390R001.A01
Dwg.No.:	ESC-4

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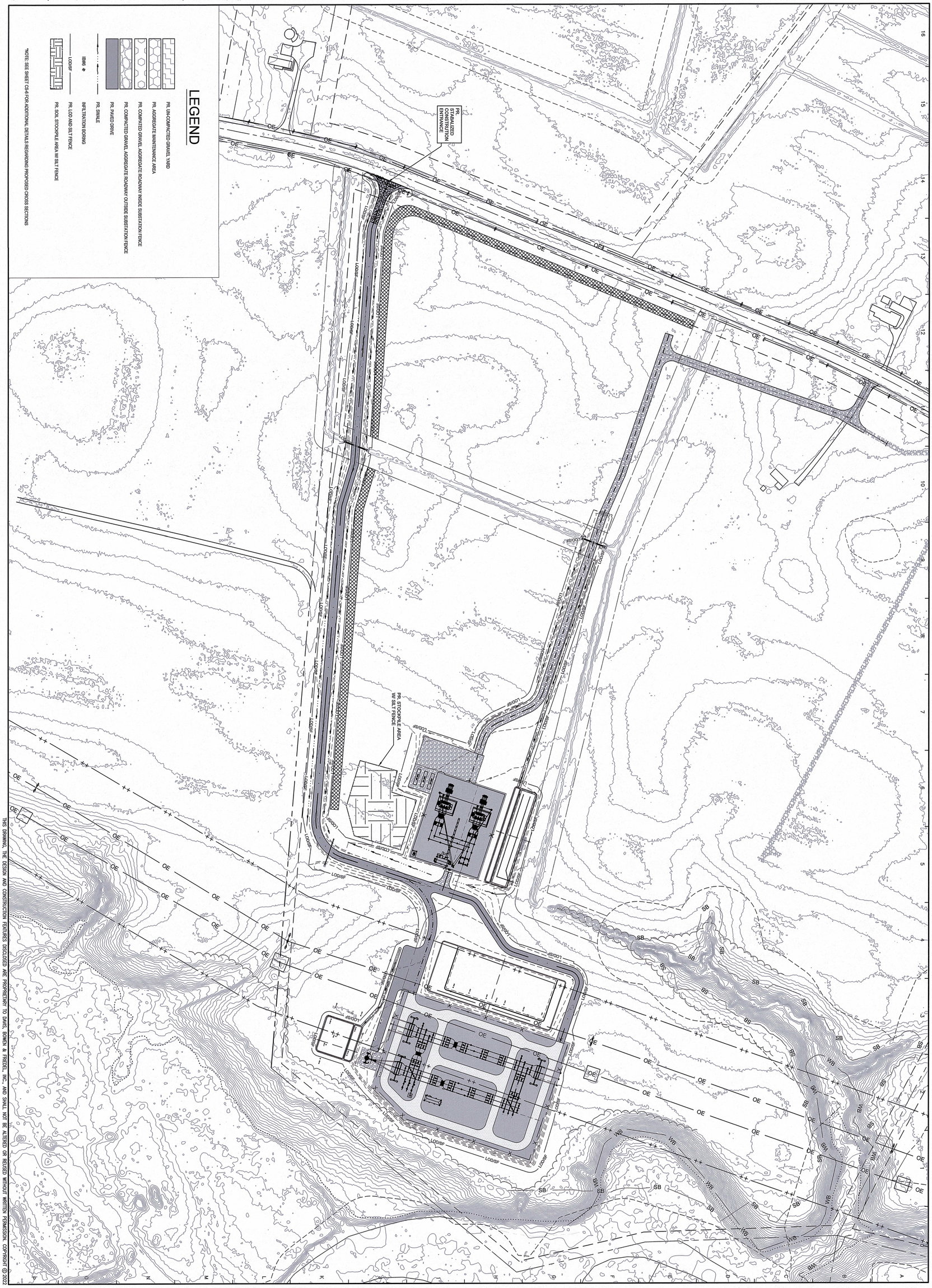

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ESC-5

Date: MARCH 2018
Scale: 1"= 30'
Dwn.By: SMS
Proj.No.: 2390R001.A01
Drwg.No.:

Revisions:
1 JULY 2024 - GRADING PLAN

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

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SUBSTATION EROSION & SEDIMENT CONTROL

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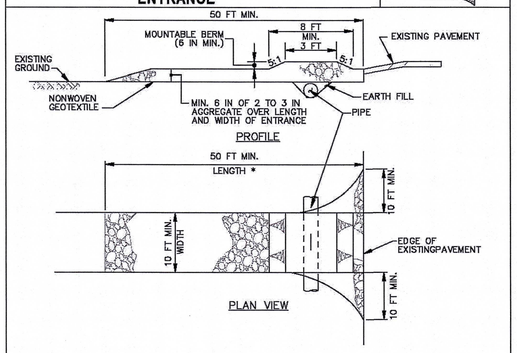
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SEQUENCE OF CONSTRUCTION

1. CONTRACTOR SHALL NOTIFY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) 410-537-3510 AND CAROLINE SOIL CONSERVATION DISTRICT 410-479-1202, EXT. 3 AT LEAST 14 DAYS PRIOR TO COMMENCING ANY DISTURBING OR GRADING ACTIVITY AND, UNLESS WAIVED BY THE ADMINISTRATION, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF MDE - WMA.
2. CONTRACTOR TO REFER AND ADHERE TO ALL SEDIMENT AND STORMWATER MANAGEMENT NOTES AND DETAILS AS SHOWN HEREON.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
4. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS.
5. PROVIDE SURVEY AND LAYOUT OF THE LIMITS OF DISTURBANCE (LOD). THE LOD MUST BE FIELD MARKED PRIOR TO CLEARING TREES, INSTALLATION OF SEDIMENT CONTROLS OR OTHER LAND DISTURBING ACTIVITIES.
6. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THE STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
7. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE (SF) ACCORDING TO PLAN. THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT ALL REQUESTS MADE BY THE CAROLINE SOIL CONSERVATION DISTRICT OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR ADDITIONAL SEDIMENT CONTROL MEASURES, OTHER THAN WHAT IS SHOWN ON THE SITE PLANS, DURING CONSTRUCTION. SOLAR ARRAY FIELD CONSTRUCTION IS CONSIDERED AN AGRICULTURAL PRACTICE FOR THE PURPOSES OF SEDIMENT & EROSION CONTROL. SEE SUPPLEMENTAL SHEETS FOR PHASING PLAN.
8. CONTRACTOR SHALL COMPLETE THE CONSTRUCTION OF THE SOLAR ARRAY FIELD, ACCESS ROAD, P/V RACK SUPPORTING POSTS, RACKING SYSTEM. P/V PANELS AND ASSOCIATED CABLING, CONDUITS, INVERTER, TRANSFORMERS AND PERIMETER FENCING.
9. CONTRACTOR SHALL NOT DISTURB MORE AREA THEN THEY CAN STABILIZE IN 7 CALENDAR DAYS. NO MORE THAN 30 ACRES WITHIN EACH WORK AREA SHALL BE DISTURBED AT ANY TIME.
10. ALL DISTURBED PERVIOUS AREAS SHALL BE STABILIZED AND HYDROSEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION. WITH THE APPROVAL OF THE INSPECTOR, CONTRACTOR TO REMOVE ALL TEMPORARY SEDIMENT CONTROLS INCLUDING SILT FENCE.
11. AT A MINIMUM, THE CONTRACTOR MUST OBTAIN A CONDITIONAL APPROVAL FROM THE MDE INSPECTOR, CAROLINE SCD, AND THE OWNER BEFORE DE-MOBILIZING FROM THE PROJECT SITE.

SEDIMENT & EROSION CONTROL GENERAL NOTES

1. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
2. APPROVAL OF PLANS REMAIN VALID FOR 2 YEARS FROM THE DATE OF APPROVAL, WITH THE EXCEPTION OF SURFACE MINE AND LANDFILL PLANS WHICH REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL UNLESS SPECIFICALLY EXTENDED OR RENEWED BY THE APPROVAL AUTHORITY.
3. A MARYLAND DEPARTMENT OF THE ENVIRONMENT NOTICE OF INTENT (NOI) GENERAL PERMIT FOR CONSTRUCTION ACTIVITY IS REQUIRED FOR ALL CONSTRUCTION ACTIVITY IN MARYLAND WITH A PLANNED TOTAL DISTURBANCE OF 1 ACRE OR MORE.
4. AN INSPECTION MUST BE PERFORMED ONSITE OF ALL SEDIMENT CONTROLS ON A WEEKLY BASIS AND AFTER EVERY RAINFALL EVENT. ALL SELF INSPECTIONS MUST BE MAINTAINED ALONG WITH THE APPLICABLE GOVERNING AGENCY INSPECTION REPORTS IN A LOG BOOK, TO BE KEPT ONSITE AT ALL TIMES.
5. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

OPERATION & MAINTENANCE FOR OPEN AREAS

SITE PREPARATION:

TO PREPARE FOR CIVIL CONSTRUCTION ACTIVITIES THE OPERATIONS AND MAINTENANCE CONTRACTOR WILL MOW THE EXISTING VEGETATIVE COVER AT THE SITE TO A HEIGHT OF 4" TO 6". PRIOR TO CONSTRUCTION, AERIAL SEEDING OF HARDY SELF-SEEDING VARIETIES WILL BE COMPLETED OR PROVIDE EQUIVALENT SEEDING/STABILIZATION METHODS PRIOR TO CONSTRUCTION. INSTALLATION OF THE ARRAY FIELD ELEMENTS WILL THEN COMMENCE ON A TRIMMED AND MAINTAINED VEGETATIVE COVER. THERE WILL BE NO TREE CLEARING, CUTTING, FILLING, OR MAJOR SITE GRADING.

UPON COMPLETION OF THE ARRAY ELEMENTS, DURING THE FALL PERMANENT SEEDING TIME CONSTRAINTS OF AUGUST 15TH TO OCTOBER 15TH, THE CONTRACTOR SHALL SEED (USING HYDROSEEDING) IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, STANDARD B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING. MULCHING AND MULCH ANCHORING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE SAME STANDARD, AGAIN USING HYDROSEEDING BROADCASTING EQUIPMENT.

THE CONTRACTOR WILL MAKE EVERY EFFORT TO ACHIEVE THE REQUIRED OVERSEEDING PRIOR TO CONSTRUCTION ACTIVITIES TO STABILIZE THE SITE, IF REQUIRED.

SITE WILL BE MONITORED AND MAINTAINED UNTIL ACCEPTABLE, PERMANENT VEGETATIVE STABILIZATION HAS BEEN ACCEPTED BY THE SOIL CONSERVATION DISTRICT.

CONDUCT SOIL TESTING TO DETERMINE THE NECESSARY SOIL AMENDMENTS. THE APPLICATION RATES OF FERTILIZER AND LIME SHOULD BE ACCORDING TO THE RECOMMENDATIONS OF THE ONSITE SOIL TESTS.

PLANNED GROUNDCOVER:
ERNST CONSERVATION SEEDS OFFERS TWO DIFFERENT SEED MIXES THAT MEET THE NEEDS OF THE PROJECT SITE. THE NATIVE/NATURALIZED SOLAR FARM SEED MIX - ERNMX-186-1 AND SOLAR FARM SEED MIX - ERNMX-186. BOTH MIXES CONTAIN LOW MAINTENANCE GRASSES THAT GROW LESS THAN TWO FEET TALL WITH THE EXCEPTION OF THE CHEWINGS FESCUE AND THE AUTUMN BENTGRASS THAT CAN REACH THREE FEET IN HEIGHT. SEEDING SHOULD BE AT A RATE OF 6 LB. PER 1,000 SQUARE FEET. AREAS DISTURBED DURING CONSTRUCTION, AS WELL AS ALL AREAS BELOW SOLAR PANELS, SHALL BE SEEDED AND/OR OVERSEEDED WITH THE SELECTED SEED MIX. MULTIPLE SEEDING TIMES MAY BE NECESSARY TO ESTABLISH ACCEPTABLE LEVEL OF COVERAGE. SEEDING SHOULD BE DONE AS SOON AS POSSIBLE AFTER CONSTRUCTION TO ESTABLISH A GROUND COVER SINCE WEEDS WILL TRY TO GROW.

SUPPLEMENTAL PLANTING CAN BE ACCOMPLISHED BY HYDROSEEDING. FALL SEEDING IS BEST. SEEDING TIMES ARE MARCH 1 TO MAY 15 OR AUGUST 15 TO OCTOBER 15. IMMEDIATELY AFTER SEEDING, UNIFORMLY MULCH ENTIRE AREA WITH UNWEATHERED SMALL GRAIN STRAW AT A RATE OF 92 LBS. PER 1,000 SQ. FT. MULCH TO BE ANCHORED WITH MULCH ANCHORING TOOL ON THE CONTOUR.

IN ADDITION TO THE SELECTED SEED MIX IDENTIFIED FOR SITE STABILIZATION, THE CONTRACTOR SHALL INCORPORATE WHITE CLOVER SEED MIX AS A POLLINATOR.

MAINTENANCE SCHEDULE:
1. THE SITE SHOULD BE MOWED IN EARLY SPRING BEFORE THE ONSET OF NEW GROWTH. GRASS SHOULD BE MOWED A MINIMUM OF THREES TIMES A YEAR. IT SHOULD BE DONE, AT A MINIMUM, IN THE EARLY SPRING AND ALSO IN MID TO LATE JUNE. GRASS SHOULD NEVER BE MOWED TO A HEIGHT OF LESS THAN 3 INCHES. THE REMOVAL OF CLIPPINGS CAN PREVENT BUILD-UP OF THATCH THAT SMOTHERS OUT THE GRASS AND INHIBITS WATER INFILTRATION. DUST CONTROL SHALL BE PROVIDED DURING THE CONSTRUCTION PERIOD BY UTILIZING A WATER TRUCK.
2. ALL CONSTRUCTED SWALES, INLETS AND PIPES ASSOCIATED WITH THIS PROJECT SHALL BE REGULARLY INSPECTED AND MAINTAINED THROUGHOUT THE YEAR TO MAKE SURE THEY ARE FUNCTIONING AND THAT NO BUILDUP OF GRASS CLIPPINGS OR OTHER DEBRIS IS PRESENT IN THE SYSTEM.

STANDARD STABILIZATION NOTE

FOLLOWING THE INITIAL SOIL DISTURBANCE OR RE-DISTRUBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

1. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERMANENT SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND,
2. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
3. NO MORE THAN 30 ACRES WITHIN EACH WORK AREA SHALL BE DISTURBED AT ANY TIME.
4. PER STATE CODE (COMAR 26.17.01 ESC REGULATIONS, 2017) WORK CAN PROCEED TO THE SUBSEQUENT GRADING AREA WHEN FIFTY PERCENT (50%) STABILIZATION OF THE PRECEDING GRADING AREA HAS BEEN ACHIEVED. UNDER STATE CODE, STABILIZATION OF A SITE REQUIRES VEGETATIVE COVER WITHIN THE PROPOSED LIMIT OF CONSTRUCTION TO PREVENT RUNOFF AND SEDIMENT AND EROSION VIOLATIONS. ANY AREAS WHERE WORK HAS BEEN SUSPENDED FOR SEVEN (7) DAYS OR MORE WILL NEED TO COMPLY WITH INTERIM STABILIZATION REQUIREMENTS CONSISTENT WITH THESE CODES.
5. INDIVIDUAL CONTROLS REQUIRED WITHIN EACH WORK AREA INCLUDING SILT FENCE AT BUFFERS.

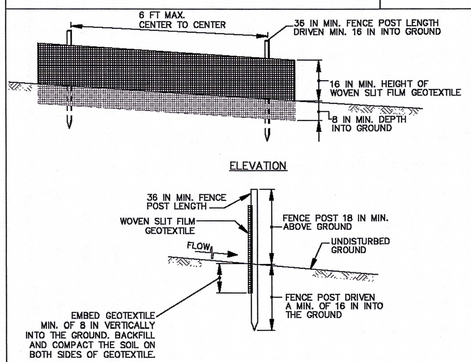
GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY

THE FOLLOWING ITEMS HAVE BEEN ADDRESSED TO MEET THE REQUIREMENTS OF THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (NPDES NUMBER MDR10, STATE DISCHARGE PERMIT NUMBER 09GP).

1.) UTILIZATION OF ENVIRONMENTAL SITE DESIGN
2.) MAINTENANCE OF LIMITS OF DISTURBANCE TO PROTECT NATURAL AREAS
3.) CONTROL OF CONSTRUCTION EQUIPMENT AND VEHICLES
4.) EVALUATION AND APPROPRIATE LIMITATION OF SITE CLEARING
5.) EVALUATION AND DESIGNATION OF SITE AREA FOR PHASING OR SEQUENCING
6.) IDENTIFICATION OF SOILS AT HIGH RISK FOR EROSION AND ADVANCED STABILIZATION TECHNIQUES TO BE USED
7.) IDENTIFICATION OF STEEP SLOPES AND DESIGNATION OF LIMITATIONS ON CLEARING THEM
8.) EVALUATION AND DESIGNATION OF STABILIZATION REQUIREMENTS AND TIME LIMITS AND PROTECTION MEASURES FOR DISCHARGES TO THE CHESAPEAKE BAY, IMPAIRED WATERS OR WATERS WITH AN ESTABLISHED TOTAL MAXIMUM DAILY LOAD (TMDL).

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/8 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID–SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H–1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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. 31100, Expiration Date: 01-21-25.

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SUBSTATION EROSION & SEDIMENT CONTROL

CHERRYWOOD SOLAR PROJECT
CHERRYWOOD SOLAR I, LLC
Caroline County, Maryland

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