**WORCESTER COUNTY TECHNICAL REVIEW COMMITTEE**
**AGENDA**

**Tuesday, November 10, 2026 at 1:00 p.m.**
**Worcester County Government Center, Room 1102, One West Market Street,**
**Snow Hill, Maryland 21863**

**Due to recent email scams by an individual impersonating a County employee alleging that unanticipated fees are owed, please know that Development Review and Permitting (DRP) will never require payment by wire transfer. If you receive such an email or call, contact DRP directly at 410-632-1200, and staff will be glad to assist you.**

I. **Call to Order**

II. **Site Plan Review (§ ZS 1-325)**

A. **Bishopville Road Solar – Major Site Plan Review**
Proposed development of a 2MW community solar project. Located on Bishopville Road, near the intersections of Hotel Rd, and Jarvis Road Tax Map 9, Parcel 0382, A-1 Agricultural District, Bishopville Vol Fire Dept, owner / Becker Morgan Group Inc., engineer.

DEPARTMENT OF
DEVELOPMENT REVIEW AND PERMITTING
Worcester County
GOVERNMENT CENTER
ONE WEST MARKET STREET, ROOM 1201
SNOW HILL, MARYLAND 21863
TEL:410.632.1200 / FAX: 410.632.3008
http://www.co.worcester.md.us/departments/drp

*ZONING DIVISION*
*BUILDING DIVISION*
*BOARD OF LICENSE COMMISSIONERS*

*ADMINISTRATIVE DIVISION*
*CUSTOMER SERVICE DIVISION*
*TECHNICAL SERVICES DIVISION*

# WORCESTER COUNTY TECHNICAL REVIEW COMMITTEE MEETING
## November 10, 2026

**Bishopville Road Solar – Major Site Plan Review**
Proposed development of a 2MW community solar project. Located on Bishopville Road, near the intersections of Hotel Rd, and Jarvis Road Tax Map 9, Parcel 0382, A-1 Agricultural District, Bishopville Vol Fire Dept, owner / Becker Morgan Group Inc., engineer.

**Prepared by**: Zack White, DRP Specialist

**Due to recent email scams by an individual impersonating a County employee alleging that unanticipated fees are owed, please know that Development Review and Permitting (DRP) will never require payment by wire transfer. If you receive such an email or call, contact DRP directly at 410-632-1200, and staff will be glad to assist you.**

The Planning Commission is the approving authority for this site plan. For a Major Site Plan, please address all comments provided by the Technical Review Committee (TRC) and resubmit any changes as needed for the Planning Commission. If approved by the Planning Commission, final approval of the site plan will not be granted by the County until all comments provided to the applicant have been addressed on the site plan and any associated documents.

**General Requirements**:

1. In order to obtain a Building Permit, the applicant must submit the following to the Department:
   a. A complete building permit application along with the initial fee of $350 made payable to "Worcester County."
   b. Four (4) sets of sealed plans in accordance with the applicable International Building Code, Energy Code, and ADA Code.
   c. Four (4) site plan sets as approved by the Technical Review Committee.
2. Once the permit is issued, the applicant must coordinate all necessary inspections with the respective Building/Housing/Zoning Inspector. The Department requires 24-hour notice for all inspections. The inspector may require special or additional inspections as needed.

In order to obtain a Certificate of Use and Occupancy, all of the necessary inspections must be completed and approved by the various inspections' agencies (building, zoning, plumbing, electrical, water, sewage, health, roads, etc.). Two (2) sets of As-Builts (illustrating all lighting, landscaping, parking, signs etc.) must be submitted at least one (1) week prior to the anticipated occupancy of the building, structure, or use of land. **Please note that it is unlawful to occupy a structure (employees or patrons) without the benefit of a Certificate of Use and Occupancy.**

**Project Specific Comments**: This project is subject to, but not limited to, the following sections of the Zoning and Subdivision Control Article:

| | |
|---|---|
| **§ZS1-201(b)(18)** | A-1 Agricultural District, Major and utility solar energy systems. |
| **§ZS1-305** | Lot Requirements Generally |
| **§ZS1-306** | Access to Structures |
| **§ZS1-319** | Access and Traffic Circulation Requirements |
| **§ZS1-320** | Off-Street Parking Areas |
| **§ZS1-321** | Off-Street Loading Spaces |
| **§ZS1-322** | Landscaping and Buffering Requirements |
| **§ZS1-323** | Exterior Lighting |
| **§ZS1-324** | Signs |
| **§ZS1-325** | Site Plan Review |
| **§ZS1-326** | Classification of Highways |
| **§ZS1-344** | Alternative Energy Facilities |

**General**

1. Item 18 within the Site Information on the cover sheet states that the property is not located in the Chesapeake Bay Critical Area. Please correct to indicate that it is, and its designation (RCA).
2. Please confirm total MW of the project. The site plan notes 2MW, however during correspondence with Becker Morgan it was noted to be "just over 1MW"
3. On Sheet C-201, please edit the note labeling the agricultural fencing to be easier to read.
4. Please include zoning information for all parcels on the site plan
5. For the sign detailed on sheet C-901, please note location(s) on the site plan.
6. A decommissioning plan per §ZS1-344(d)(7) will need to be submitted and approved by the Department of Review and Permitting before signature site plan approval.
7. An approved Sediment and Erosion control plan that complies site standards noted in §7-218(f)(5)(i)-(v) of the Public Utilities Article will need to be included in the plans for signature.
8. Sheet L-101: In the landscaping notes, please clarify that no topsoil shall be removed from the parcel, although it can be moved or temporarily stockpiled for grading.
9. Please clarify if Emergency Services have been notified. Public Utilities Article §7–218(f)(2)(vii).
10. Due to this property being listed within a rural legacy area, a viewshed analysis is required as part of the site plan. Public Utilities Article§7–218(f)(2)(vi)1-2.
11. Please clarify if there will be any lighting. If lighting is proposed, please provide a lighting plan and ensure the solar energy generating station does not emit any visible light during dusk to dawn operations.

**Access & Travelways**

1. Please clarify if the proposed 18' wide access driveway will be for one-way traffic. If it is for two-way traffic, then it will need to be widened to 20.'
2. The proposed gravel utility access road will need a waiver from the Planning Commission for the paving material.

**Landscaping**

1. Please note that at least 75% of installed and replacement plant material are native to Worcester County per §ZS1-322(b)(5).
2. Please label 'to be retained' on the existing forested areas that will be used to satisfy the landscaping requirements.
3. In the General Landscape Notes, Note # 13 please also add that substitutions must also be approved by Worcester County.

4. The proposed watering method will require a waiver from the Planning Commission. §ZS1-322(b)(7).
5. Worcester County shall hold a landscaping bond equal to 100% of the total landscaping cost for the first five years. After five years, 50% of the bond may be released if, on inspection, the vegetative protections meet a 90% survival threshold. The remaining 50% shall be held for an additional two years. If upon further inspection and confirmation that the vegetative protections continue to meet 90% survival threshold, it shall be released.
6. A landscape inspection and maintenance agreement shall be recorded in the Land Records prior to the issuance of the building permit. A $60 check made payable to "Worcester County Clerk of Court" must also be provided with the agreement.

**Decommissioning Bond**

1. A decommissioning bond to be held by Worcester County will be required prior to the issuance of a building permit. The bond value shall be reevaluated every five (5) years, when the property or lease transfers, and just prior to decommissioning. §ZS1-344(d)(7)(C).
2. A decommissioning agreement shall be recorded in the Land Records prior to the issuance of the building permit. A $60 check made payable to "Worcester County Clerk of Court" must also be provided with the agreement.

**Other Agency Approvals**:

1. Written confirmation that the water and sewer requirements have been met will be required to be provided from the Department of Environmental Programs prior to the Department granting signature approval.
2. Written confirmation will also be required from the Department of Environmental Programs Natural Resources Division relative to Critical Area, Forestry, and Stormwater Management requirements prior to the Department granting signature approval.
3. Written confirmation of approval from the County Roads Division and/or State Highway Administration regarding the existing, proposed, or modified commercial entrances on all parcels shall be provided to the Department prior to granting signature approval.

***Please provide a detailed listing of all site plan changes along with any resubmission.**

**NEXT STEPS**: **For a Major Site Plan, please address all comments provided by the TRC and resubmit any changes as needed for the Planning Commission. If approved by the Planning Commission, final approval of the site plan will not be granted until all comments provided to the applicant by the TRC have been addressed on the site plan and any associated documents. Once the site plan and other documents have been adjusted, it will**

**need to be resubmitted to the TRC for 'final signature approval' before building/zoning permits will be issued.**

The approval of the site plan or the installation of the improvements as required in this Title shall in no case serve to bind the County to accept such improvements for maintenance, repair or operation thereof. Acceptance of improvements shall be subject to applicable County or state regulations.

No public easement, right-of-way or public improvement shall be accepted for dedication unless approved by the County Commissioners. Such approval shall not be given by the County Commissioners until any such easement, right-of-way or improvement complies with all the requirements set forth by the approving body, including such other requirements that the approving body might impose for public utilities, streets, roads, drainage, etc. All improvements accepted for dedication shall be depicted on an instrument to be recorded in the land records of Worcester County.

## WORCESTER COUNTY TECHNICAL REVIEW COMMITTEE

Department of Development Review & Permitting
Worcester County Government Center
1 W. Market St., Room 1201
Snow Hill, Maryland 21863
410-632-1200, Ext. 1151
pmiller@worcestermd.gov

**********

Project: Bishopville Road Solar (2.0 MW)
Date: 11/10/2026
Tax Map: 9 Parcel: 382 Section:___ Lot:___ Block:_____

### COMMENTS

1. Current Codes: 2021 International Building Code
   2020 National Electric Code

2. Wind Design (assumed):112 MPH Risk Category I; Exposure Category "C";
   Ground Snow Load – 20 PSF

3. Soils report required at time of permit application.

4. Engineered sealed plans (Maryland) required for all systems and components.
   Soils evaluation for pile / steel column foundation for embedment depth.

5. Special inspector **(third party engineer)** will be required for all piles, steel channel columns, systems and components during construction. Final certification and report of project prior to final inspection by building inspector.

6. Submit the total number and size of solar panels to be installed.

7. Provide total wattage amount at time of application.

8. If tracking panel system (single-axis array) is installed, a commissioning report will be required.

9. Please provide your design professional with a copy of these comments.

**Additional information may be requested at time of plan review.**

**Permit fee is by $ft^2$ of panels x .1131. There is also a fee for fire marshal.**

Worcester County
Department of Environmental Programs
Natural Resources Division

# Memorandum

| | |
|---|---|
| **To:** | Technical Review Committee |
| **From:** | David Mathers, Natural Resources Planner IV DM |
| **Subject:** | Forest Conservation & Stormwater Management Review |
| **Date:** | October 22, 2026 |
| **Date of Meeting:** | November 10, 2026 |
| **Project:** | Bishopville Road Solar |
| **Location:** | Bishopville Road & Hotel Rd., Tax Map: 9, Parcel: 382 |
| **Owner/Developer:** | Bishopville Volunteer Fire Department |
| **Engineer/Surveyor:** | Becker Morgan Group, Inc. |

**This project is subject to the Worcester County Forest Conservation Law**. In accordance with House Bill 723, as of July 1, 2024, solar photovoltaic facilities are exempt from the County's Forest Conservation Law provided there is no cutting or clearing of forest, and provided that all forested area cut or cleared is replaced at a ratio of one acre planted for each one acre removed, or, is replaced at a ratio of one half acre planted for each one acre removed in a priority funding area. Furthermore, any future approval of this land for a regulated activity shall be subject to the County's Forest Conservation Law.

**This project is subject to the Worcester County Stormwater Ordinance.** The project has obtained Stormwater Concept Plan approval. This project will need Stormwater Site Development Plan approval prior to proceeding to Planning Commission.

All projects over one acre shall be required to file for a General Permit/Notice of Intent (NOI) for construction activity through Maryland Department of Environment. This is mandated through the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES). Any permits to be issued by Worcester County for disturbance that exceeds one acre will not be issued without NOI authorization being obtained prior to.

DEPARTMENT OF
ENVIRONMENTAL PROGRAMS
Worcester County
GOVERNMENT CENTER
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SNOW HILL, MARYLAND 21863
TEL:410.632.1220 / FAX: 410.632.2012

*LAND PRESERVATION PROGRAMS*
*STORMWATER MANAGEMENT*
*SEDIMENT AND EROSION CONTROL*
*SHORELINE CONSTRUCTION*
*AGRICULTURAL PRESERVATION*
*ADVISORY BOARD*

*WELL & SEPTIC*
*WATER & SEWER PLANNING*
*PLUMBING & GAS*
*CRITICAL AREAS*
*FOREST CONSERVATION*
*COMMUNITY HYGIENE*

# MEMORANDUM

DATE: January 1, 2024

TO: Applicant

FROM: David M. Bradford, Deputy Director

SUBJECT: Stormwater/Sediment Erosion Control Plan/Permit

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Please note, if a Stormwater plan is approved by this office and does not include phasing, the corresponding permit can only receive Stormwater Final approval once all improvements are completed and the entire site is stabilized. This includes properties which have multiple Building or Zoning permits associated with the Stormwater plans. If a Stormwater Bond is required per the permit, the bond will only be released once a Stormwater Final approval takes place.

Additionally, if pervious pavement (i.e. asphalt, concrete) is proposed as a Stormwater Best Management Practice (BMP), an engineer will be required to ensure that this BMP is installed per the approved plan and the correct sequence is detailed on approved plans. Furthermore, all site disturbance must be stabilized prior to beginning the BMP installation process to avoid any contamination or performance issues. If components of the BMP become contaminated, excavation may be required. A detail/schematic must be site specific and reflect how associated sub drains are connected to piping and also illustrate all material being used in subgrade when using this BMP.

If you have any questions, please feel free to contact the Deputy Director, David Bradford, at (410) 632-1220, ext. 1143.

DEPARTMENT OF
INFORMATION TECHNOLOGY
Worcester County
GOVERNMENT CENTER
ONE WEST MARKET STREET, ROOM 1003
SNOW HILL, MARYLAND 21863
TEL:410.632.5610
www.co.worcester.md.us/departments/it

To: Zachary S. White; DRP Specialist II
From: Kelly L. Henry; GIS Supervisor
Date: October 20, 2026
RE: TRC Agenda - November 10, 2026

**********

Bishopville Road Solar – Tax Map 9, Parcel 382 – SDAT Account ID No. 24-05-768483

Based on the site plan submitted with the application, the centerline of the proposed driveway to the solar farm off Bishopville Road is approximately 148 feet from the southerly property line of Parcel 256 and 48 feet from the utility pole south of the entrance to Bishopville Park. Finding the centerline of the solar farm entrance in alignment with these measurements and features on the 2024 aerial, the centerline of the proposed driveway is approximately 171 feet from the driveway entrance serving 10603 Bishopville Road. Using these measurements**, I recommend the following address assignment to Parcel 382: 10595 Bishopville Road.**

**Please note:**

If during the development approval process of this project the driveway location where it intersects Bishopville Road is altered, the address assignment may need to be changed.

During site development, construction and when the project is completed, the street number should posted at the driveway entrance and be clearly visible in both directions by emergency personnel.

New Address Assignment: Bishopville Road….ODD—Zip Code Bishopville 21813

SDAT Account ID No. 24-05-768483—Tax Map 9, Parcel 382

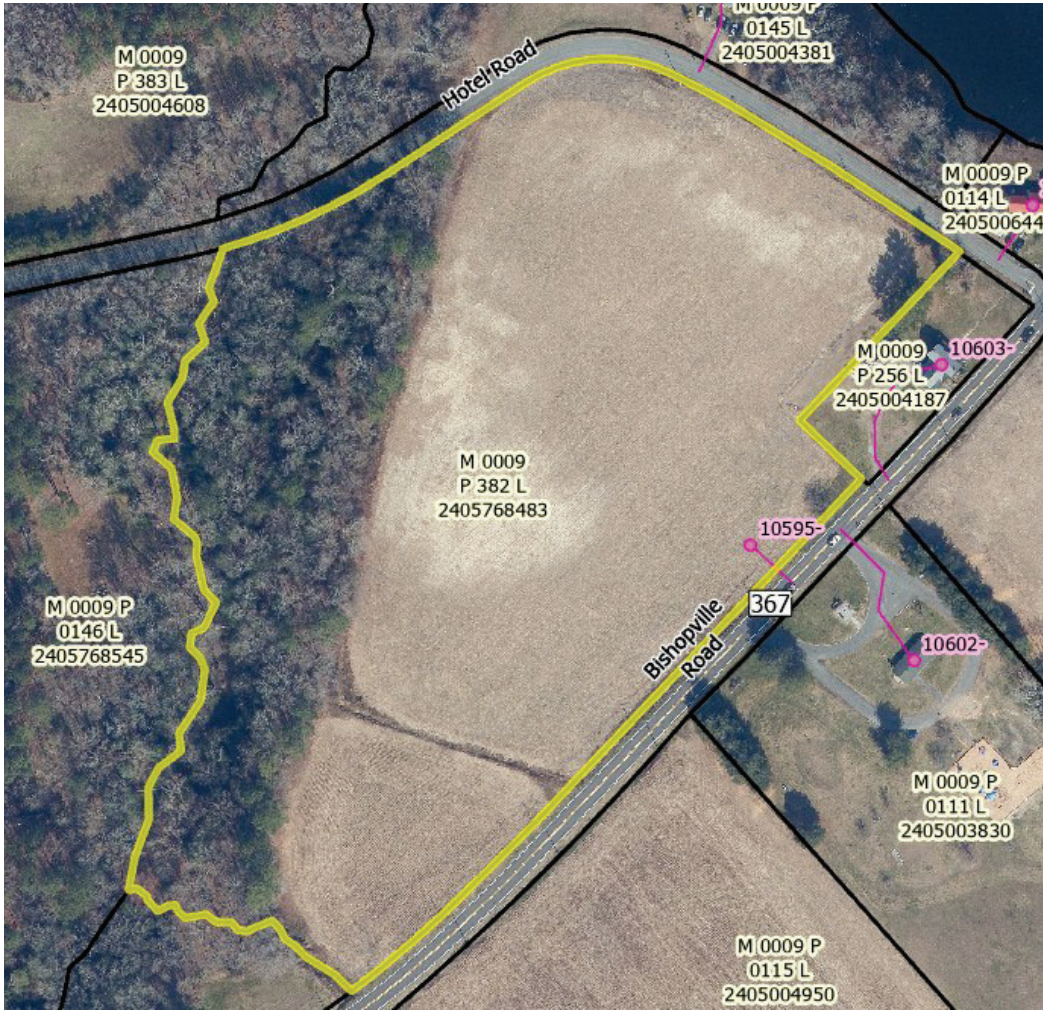
Technical Review Committee reviewed a site plan for Bishopville Solar farm off Bishopville Road.

Based on the site plan submitted with the application, the centerline of the proposed driveway to the solar farm off Bishopville Road is approximately 148 feet from the southerly property line of Parcel 256 and 48 feet from the utility pole south of the entrance to Bishopville Park. Finding the centerline of the solar farm entrance in alignment with these measurements and features on the 2024 aerial, the centerline of the proposed driveway is approximately 171 feet from the driveway entrance serving 10603 Bishopville Road. Using these measurements**, I recommend the following address assignment to Parcel 382: 10595 Bishopville Road.**

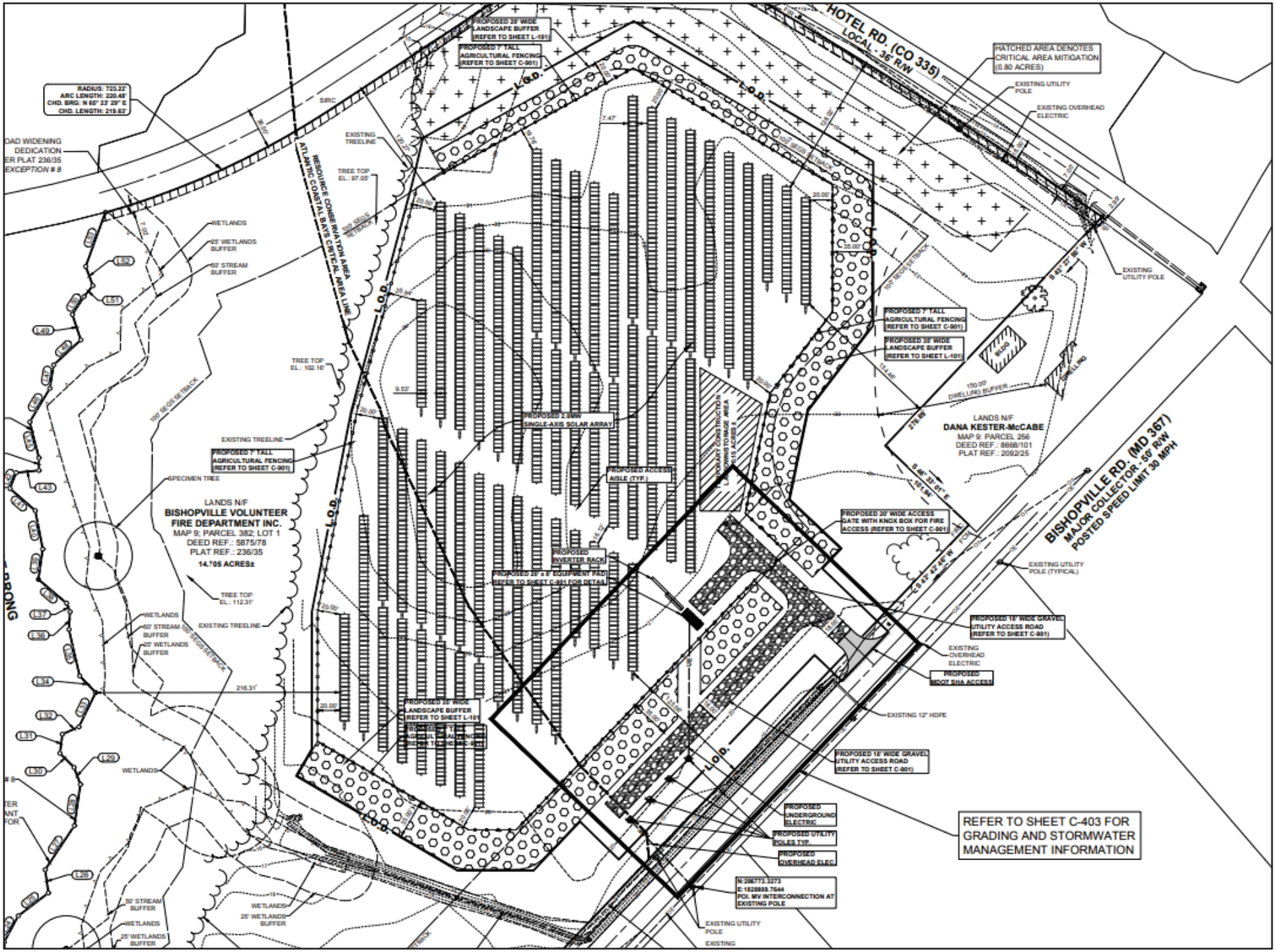
| Bishopville Road…..ODD | |
|---|---|
| Distance | Address |
| 0 | 10603 |
| 50 | 10601 |
| 100 | 10599 |
| 150 | 10597 |
| 200 | 10595 |
| 250 | 10593 |
| Existing Address | |
| New Address | |

**Please note:**

- If during the development approval process of this project the driveway location where it intersects Bishopville Road is altered, the address assignment may need to be changed.
- During site development, construction and when the project is completed, the street number should posted at the driveway entrance and be clearly visible in both directions by emergency personnel.




DRP/TSD:KHenry10202026


HOTEL RD. (CO 335)
LOCAL - 36' R/W
BISHOPVILLE RD. (MD 367)
MAJOR COLLECTOR - 50' R/W
POSTED SPEED LIMIT 30 MPH
HATCHED AREA DENOTES CRITICAL AREA MITIGATION (0.80 ACRES)
RADIUS: 723.22'
ARC LENGTH: 220.46'
CHD. BRG: N 65° 23' 29" E
CHD. LENGTH: 219.63'
ROAD WIDENING DEDICATION PER PLAT 236/35 EXCEPTION # 8
RESOURCE CONSERVATION AREA ATLANTIC COASTAL BAYS CRITICAL AREA LINE
SHRC
EXISTING TREELINE
TREE TOP EL.: 97.05'
TREE TOP EL.: 102.16'
TREE TOP EL.: 112.31'
SPECIMEN TREE
WETLANDS
25' WETLANDS BUFFER
50' STREAM BUFFER
100' BEGS SETBACK
L.O.D.
PROPOSED 20' WIDE LANDSCAPE BUFFER (REFER TO SHEET L-101)
PROPOSED 7' TALL AGRICULTURAL FENCING (REFER TO SHEET C-901)
PROPOSED 2.8MW SINGLE-AXIS SOLAR ARRAY
PROPOSED ACCESS AISLE (TYP.)
PROPOSED INVERTER RACK
PROPOSED 20' x 8' EQUIPMENT PAD (REFER TO SHEET C-901 FOR DETAIL)
PROPOSED 20' WIDE ACCESS GATE WITH KNOX BOX FOR FIRE ACCESS (REFER TO SHEET C-901)
PROPOSED 18' WIDE GRAVEL UTILITY ACCESS ROAD (REFER TO SHEET C-901)
PROPOSED MDOT SHA ACCESS
EXISTING 12" HDPE
PROPOSED UNDERGROUND ELECTRIC
PROPOSED UTILITY POLES TYP.
PROPOSED OVERHEAD ELEC.
N:286773.3273
E:1828809.7644
POI. MV INTERCONNECTION AT EXISTING POLE
EXISTING UTILITY POLE
EXISTING OVERHEAD ELECTRIC
EXISTING UTILITY POLE (TYPICAL)
DWELLING BUFFER
BLDG
DWELLING
LANDS N/F
BISHOPVILLE VOLUNTEER FIRE DEPARTMENT INC.
MAP 9; PARCEL 382; LOT 1
DEED REF.: 5875/78
PLAT REF.: 236/35
14.705 ACRES±
LANDS N/F
DANA KESTER-McCABE
MAP 9: PARCEL 256
DEED REF.: 8868/101
PLAT REF.: 2092/25
REFER TO SHEET C-403 FOR GRADING AND STORMWATER MANAGEMENT INFORMATION

Outlook

## RE: TRC & Planning Commission Agenda Confirmation

**From** Jeffrey Fritts <JFritts@mdot.maryland.gov>
**Date** Wed 10/28/2026 10:20 AM
**To** Zachary S. White <zswhite@worcestermd.gov>

Zack,

Comments.

- Bayside Jet Drive – Currently in review process with district 1
- 611 Holdings II Storage Yard - Will need to submit plan to district 1 for a plan review. May require a permit from district 1. Existing access located across from Airport Road along MD 611 will be required to be removed
- Bishopville Solar – Will need to submit plan to district 1 for a plan review. District 1 recommends access be from Hotel Road due to heavy traffic volumes and safety concerns along MD 367.

mdot.maryland.gov

**Jeff Fritts**
Access Management
Regional Engineer
410.677.4039 **office**
443.397.5063 **mobile**
Jfritts@mdot.maryland.gov
**Maryland Department of Transportation**
660 West Road, Salisbury, MD 21801

**From:** Zachary S. White <zswhite@worcestermd.gov>
**Sent:** Wednesday, October 28, 2026 8:56 AM
**To:** Brian M. Soper <bmsoper@worcestermd.gov>; Cathy Zirkle <czirkle@worcestermd.gov>; Dallas Baker <dbaker@worcestermd.gov>; David M. Bradford <dbradford@worcestermd.gov>; David Mathers <dmathers@worcestermd.gov>; Daniel Wilson <DWilson12@mdot.maryland.gov>; Jana B. Potvin <jbpotvin@worcestermd.gov>; Savannah Guy <sguy@worcestermd.gov>; Jennifer Keener <jkkeener@worcestermd.gov>; Jeffrey Fritts <JFritts@mdot.maryland.gov>; Joy Birch <jbirch@worcestermd.gov>; Kelly Henry <khenry@worcestermd.gov>; Kevin Lynch <klynch@worcestermd.gov>; Laurie Bew <lbew@worcestermd.gov>; Lee R. Beauchamp <lrbeauchamp@worcestermd.gov>; Lisa Lawrence <llawrence@worcestermd.gov>; Matt Owens <mowens@worcestermd.gov>; Paul Miller <pmiller@worcestermd.gov>; Robert Korb Jr. <rkorb@worcestermd.gov>; Robert Mitchell <bmitchell@worcestermd.gov>; Shane L. Odegaard <sodegaard@worcestermd.gov>; Stuart White <swhite@worcestermd.gov>; Betsy C. Jackson <bcjackson@worcestermd.gov>; Paul F. Reins <pfreins@worcestermd.gov>
**Subject:** Re: TRC & Planning Commission Agenda Confirmation

Good Morning TRC,

Worcester County
Department of Environmental Programs
Natural Resources Division

# Memorandum

**To:** Technical Review Committee

**From:** Joy S. Birch, Natural Resources Planner III

**Subject:** November 10, 2026, Technical Review Committee Meeting

**Date:** November 4, 2026

**Bishopville Road Solar – Major Site Plan Review**

Proposed development of a community solar project. Located on Bishopville Road, near the intersection of Hotel Road and Jarvis Road, Tax Map 9, Parcel 382, A-1 Agricultural District, Bishopville Volunteer Fire Department, owner / Becker Morgan Group, Inc., engineer.

**Critical Area**: This project is located in the Atlantic Coastal Bays Critical Area (ACBCA) program boundary designated Resource Conservation Area (RCA) and is Non-Waterfront. Please see following comments:

1. Correct note #18 under the Site Information to state the project is within a Critical Area and designated "RCA" Resource Conservation Area
2. On the Critical Area Management Plan please correct the Mitigation Summary to the "RCA" Resource Conservation Area regulations which includes 20% plantings required.
3. Please provide any Subdivision history for the property and include a Development Rights Table.
4. Please show how many development rights will be used for this project.
5. You will need to draft a Density Rights Agreement (for what is within the RCA) in accordance with COMAR regulations for review by the County. We will need this prior to the project being sent to the State Critical Area Commission for comments.

6. Please add the Atlantic Coastal Bays Critical Area note:

   **Worcester County Atlantic Coastal Bays Critical Area Law:** This *property lies within the Worcester County Atlantic Coastal Bays Critical Area. Any and all proposed development activities must meet the requirements of Code Section NR3.1 Worcester County Critical Area Law of the Worcester County Code of Public Local Laws, as from time to time amended, in effect at the time of the proposed development activities.*

7. This project meets the requirements for the Maryland Critical Area Commission Project Notification parameters. The following may be required as part of the Commission review and comment; additional copies of the plan, Critical Area Report and all other pertinent documents.

8. This project is subject to the requirements of COMAR 27.01.14.

9. Please provide a Critical Area Review Fee of $281.35 for the Major Site Plan.

**Stormwater Management & Erosion and Sediment Control:**

Stormwater Management & Erosion and Sediment Control:

This project has received Concept Plan Approval.

General Provisions:

- All Erosion and Sediment controls should comply with the 2011 Maryland Standards and Specifications for Erosion and Sediment Control.

- All Stormwater Management practices shall be designed to meet the requirements of the 2007 Maryland Stormwater Management Act.

- All projects over one (1) acre shall be required to file for a General Permit / Notice of Intent (NOI) for construction activity through Maryland Department of Environment. This is mandated through the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES). Any permits to be issued by Worcester County for disturbance that exceeds one acre will not be issued without NOI authorization being obtained prior to.

cc: File;
Zachary White, DRP (via email)
Brian Soper, NR Administrator (via email).

DEPARTMENT OF
ENVIRONMENTAL PROGRAMS
Worcester County
GOVERNMENT CENTER
ONE WEST MARKET STREET, ROOM 1306
SNOW HILL, MARYLAND 21863
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*LAND PRESERVATION PROGRAMS*
*STORMWATER MANAGEMENT*
*SEDIMENT AND EROSION CONTROL*
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*WELL & SEPTIC*
*WATER & SEWER PLANNING*
*PLUMBING & GAS*
*CRITICAL AREAS*
*FOREST CONSERVATION*
*COMMUNITY HYGIENE*

# MEMORANDUM

DATE: 10/3/2024

TO: Applicant

FROM: Brian Soper, Natural Resources Administrator

SUBJECT: Stormwater/Sediment Erosion Control Plan/Permit

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Please note, if a Stormwater plan is approved by this office and does not include phasing, the corresponding permit can only receive Stormwater Final approval once all improvements are completed and the entire site is stabilized. This includes properties which have multiple Building or Zoning permits associated with the Stormwater plans. If a Stormwater Bond is required per the permit, the bond will only be released once a Stormwater Final approval takes place.

Additionally, if pervious pavement (i.e. asphalt, concrete) is proposed as a Stormwater Best Management Practice (BMP), an engineer will be required to ensure that this BMP is installed per the approved plan and the correct sequence is detailed on approved plans. Furthermore, all site disturbance must be stabilized prior to beginning the BMP installation process to avoid any contamination or performance issues. If components of the BMP become contaminated, excavation may be required. A detail/schematic must be site specific and reflect how associated sub drains are connected to piping and also illustrate all material being used in subgrade when using this BMP.

If you have any questions, please feel free to contact the Natural Resources Administrator, Brian Soper, at (410) 632-1220, ext. 1147.

Worcester County
Department of Environmental Programs
Environmental Programs Division

# Memorandum

**To:** Technical Review Committee (TRC) for a November 10, 2026 Meeting

**From:** Environmental Programs Staff

**Subject:** **Bishopville Solar Major Site Plan Review – Tax Map: 9, Parcel: 382**

**Date:** **11/5/2026**

Environmental Programs comments are based on the plans submitted. These comments are subject to change every time a change is made to the plans that affect water and/or sewage for this site.

1. Environmental Programs requires a $150 fee for any Technical Review Committee projects submitted on private water & sewer. This fee will need to be submitted prior to Signature Approval being given on this project.

2. Soil evaluations were performed in 2012 to establish sewage reserve areas for a volunteer fire department building and a single-family dwelling. Results of the testing were satisfactory, and final approval was granted May 30, 2012. The approval of these sewage reserve areas on the property will become null and void once building permits are issued for this project.

3. There are internal farm ditches on the property that will need to be reviewed for impacts to the overall site drainage for this project. Alteration of drainage patterns could complicate and hinder construction. We have experienced problems with poorly drained sites where, even with minimal site impacts, installing the panels, the traffic and equipment moving over the site has created problematic drainage situations that the developer should take into account in their design and planning for this project.



Worcester County Government Center 1 West Market Street, Room 1306 Snow Hill, Maryland 21863
Tel: 410-632-1220 Fax: 410-632-2012

GOVERNMENT CENTER

ONE WEST MARKET STREET, ROOM 1302

SNOW HILL, MARYLAND 21863-1294

TEL: 410-632-5666

FAX: 410-632-5664

# TECHNICAL REVIEW COMMITTEE COMMENTS

PROJECT: **Bishopville Road Solar** TRC #: **20260466**
LOCATION: **Tax Map 9, Parcel 382 – Bishopville, Maryland 21813**
CONTACT: **Pivot Energy Development LLC**
MEETING DATE: **November 10, 2026** COMMENTS BY: **Robert Korb, Jr.**
**Chief Deputy Fire Marshal**

As you requested, this office has reviewed plans for the above project. Construction shall be in accordance with applicable Worcester County and State of Maryland fire codes. This review is based upon information contained in the submitted TRC plans only, and does not cover unsatisfactory conditions resulting from errors, omissions, or failure to clearly indicate conditions. A full plan review by this office is required prior to the issuance of a building permit. The following comments are noted from a fire protection and life safety standpoint.

**Scope of Project:**

Proposed utility scale solar array project.

**Specific Comments:**

1. Provide a Knox Box furnished by the Bishopville Volunteer Fire Company at the entrance to the site on the access gate.

2. Upon completion of the project, provide awareness training to the Bishopville Volunteer Fire Company on site specific safety details.

Worcester County, Maryland
One West Market Street
Room 1201, Government Center
Snow Hill, MD 21863-1070
(410) 632-1200

OFFICE USE ONLY:

Date Filed: _____
Meeting Date: _____

# APPLICATION TO THE DEPARTMENT – DRP, TECHNICAL REVIEW COMMITTEE, AND/OR PLANNING COMMISSION

## APPLICATION BEING MADE FOR:

| | | | |
|---|---|---|---|
| _____ | Administrative Waiver | _____ | Sketch Plan |
| _____ | Minor Site Plan/ Subdivision | _____ | Preliminary Plat |
| ✓ | Major Site Plan | _____ | Construction Plans |
| _____ | Site Plan Revision | _____ | Final Plat |

## TO THE DEPARTMENT – DRP, TECHNICAL REVIEW COMMITTEE, AND/OR PLANNING COMMISSION:

A request is hereby made for: MDL0187 Bishopville Road Solar

## LOCATION OF PROPERTY:

Tax Map: 9 Parcel: 382 Section: _____ Lot: _____ Block: _____
Physical Address: Bishopville Road, Bishopville, MD 21813

## PROPERTY OWNER INFORMATION:

Owner's Name: BISHOPVILLE VOL FIRE DEPT, INC Telephone: 410-352-5891 (TREASURER)
Address: 10709 BISHOPVILLE ROAD, BISHOPVILLE, MD 21813 (P.O. Box 350)
Signature: _____, TREASURER Email: BVFDGOV.TREASURER@gmail.com

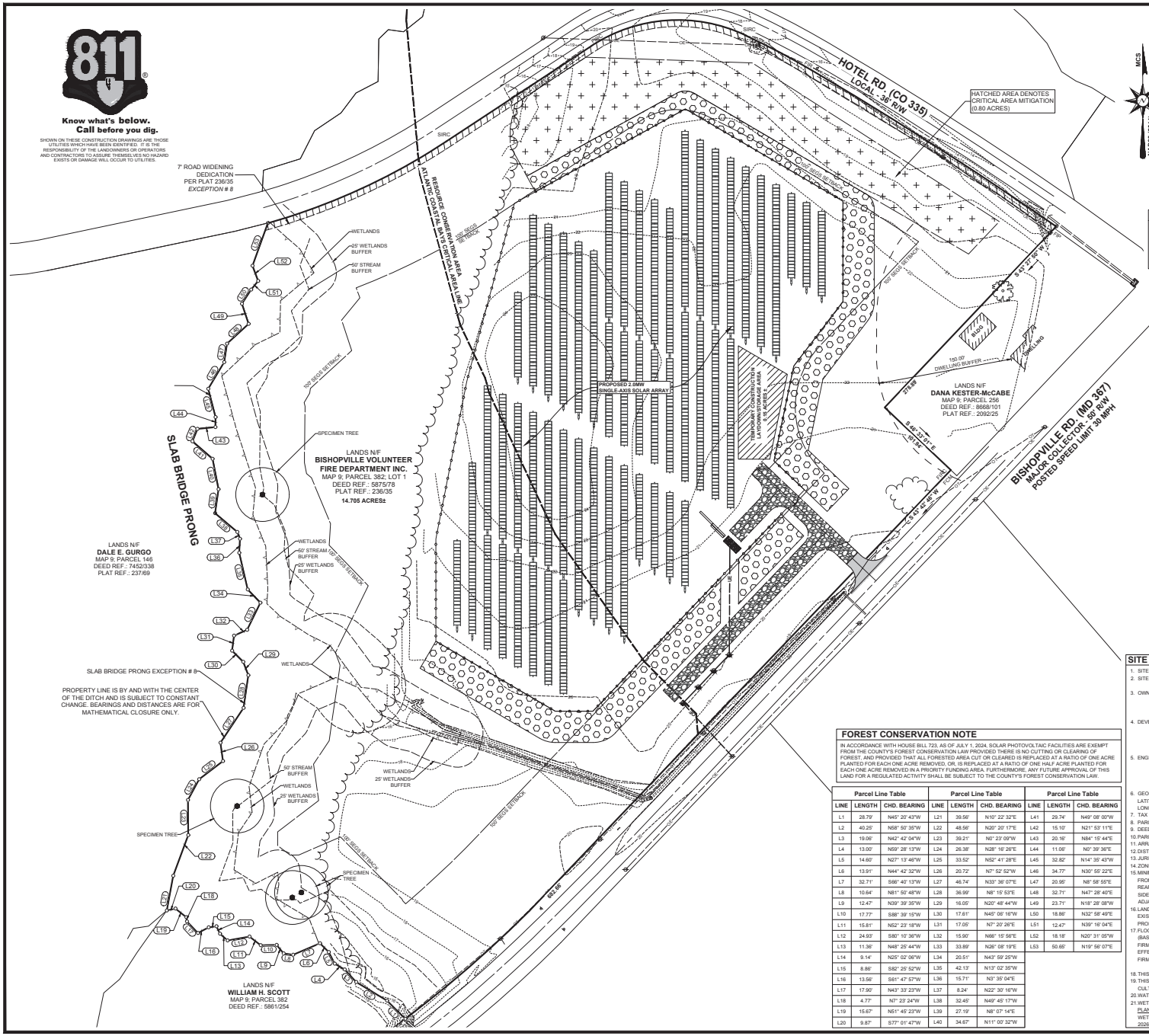
## APPLICANT INFORMATION:

Applicant's Name: Pivot Energy Development, LLC Telephone: 585.615.5765
Address: 6865 Deerpath Rd, Ste. 330, Elkridge, MD 21075
Email: jshields@pivotenergy.net

## ENGINEER, SURVEYOR, OR LAND PLANNER INFORMATION:

Company Name: Becker Morgan Group, Inc. Telephone: 410-546-9100
Address: 312 West Main Street, Suite 300, Salisbury, MD 21801
Contact Person & Email: Edward (Ted) Hastings, PMP - email: thastings@beckermorgan.com
Signature: _____

Company Name: _____ Telephone: _____
Address: _____
Contact Person & Email: _____
Signature: _____




## SHEET INDEX


| | |
|---|---|
| C-001 | COVER SHEET |
| C-101 | EXISTING CONDITIONS PLAN |
| C-201 | SITE PLAN |
| C-901 | CONSTRUCTION DETAILS |
| L-101 | LANDSCAPE PLAN |
| L-102 | LANDSCAPE DETAILS |


## LEGEND

| ITEM | EXISTING | PROPOSED |
|---|---|---|
| SANITARY GRAVITY SEWER LINE (S) SIZE & FLOW DIRECTION | EX. 10"S | 10" S |
| SANITARY SEWER FORCE MAIN (F.M.) SIZE & FLOW DIRECTION | EX. 10" F.M. | 12" F.M. |
| SANITARY SEWER MANHOLE (S.S.M.H.) | | |
| SANITARY SEWER CLEANOUT (C.O.) | | |
| WATER MAIN & SIZE | EX. 10" W | 12" W |
| FIRE HYDRANT (F.H.) | F.H. | F.H. |
| WATER VALVE (W.V.) OR METER (W.M.) | W.M. W.V. | W.M. W.V. |
| STORM DRAIN MANHOLE (S.D.M.H.) | | |
| STORM DRAIN LINE (CMP, RCP, HDPE) | | |
| CATCH BASIN (C.B.) | | |
| UTILITY POLE W/ OVERHEAD SERVICE (TELEPHONE (O.T.), ELECTRIC (O.E.) | | |
| UNDERGROUND ELECTRIC (U.E.) | U.E. | U.E. |
| UNDERGROUND TELEPHONE (U.T.) | U.T. | U.T. |
| UNDERGROUND GAS MAIN (G) | EX. 2" G | 2" G |
| CONCRETE CURB & GUTTER | | |
| CONCRETE SIDEWALK, SLAB / PAVING | | |
| IMPERVIOUS SURFACED ROAD, DRIVE OR PARKING LOT | | |
| INDIVIDUAL TREE OR BUSH | EVERGREEN DECIDUOUS | N/A |
| WIRE FENCE | | |
| CHAINLINK FENCE | | |
| STOCKADE FENCE | | |
| STRUCTURE (CONCRETE, WOOD, METAL, ETC.) | | |
| DRAINAGE DITCH OR SWALE | | |
| WETLAND BOUNDARY LINE | | N/A |
| CONTOUR | 45 | 45 |
| ELEVATION SPOT SHOT | 43.55 | 25.15 25.50 T.C. 25.00 B.C. |
| BENCH MARK | | N/A |
| PROPERTY OR RIGHT-OF-WAY LINE | | |
| CENTERLINE | | |
| LIGHT POLE | | |

## FOREST CONSERVATION NOTE

IN ACCORDANCE WITH HOUSE BILL 723, AS OF JULY 1, 2024, SOLAR PHOTOVOLTAIC FACILITIES ARE EXEMPT FROM THE COUNTY'S FOREST CONSERVATION LAW PROVIDED THERE IS NO CUTTING OR CLEARING OF FOREST, AND PROVIDED THAT ALL FORESTED AREA CUT OR CLEARED IS REPLACED AT A RATIO OF ONE ACRE PLANTED FOR EACH ONE ACRE REMOVED, OR, IS REPLACED AT A RATIO OF ONE HALF ACRE PLANTED FOR EACH ONE ACRE REMOVED IN A PRIORITY FUNDING AREA. FURTHERMORE, ANY FUTURE APPROVAL OF THIS LAND FOR A REGULATED ACTIVITY SHALL BE SUBJECT TO THE COUNTY'S FOREST CONSERVATION LAW.

| Parcel Line Table | | | Parcel Line Table | | | Parcel Line Table | | |
|---|---|---|---|---|---|---|---|---|
| LINE | LENGTH | CHD. BEARING | LINE | LENGTH | CHD. BEARING | LINE | LENGTH | CHD. BEARING |
| L1 | 28.79' | N45° 20' 43"W | L21 | 39.56' | N10° 22' 32"E | L41 | 29.74' | N49° 08' 00"W |
| L2 | 40.25' | N58° 50' 35"W | L22 | 48.56' | N20° 20' 17"E | L42 | 15.10' | N21° 53' 11"E |
| L3 | 19.06' | N42° 42' 04"W | L23 | 39.21' | N0° 23' 09"W | L43 | 20.16' | N84° 15' 44"E |
| L4 | 13.00' | N59° 28' 13"W | L24 | 26.38' | N28° 16' 26"E | L44 | 11.09' | N0° 39' 36"E |
| L5 | 14.60' | N27° 13' 46"W | L25 | 33.52' | N52° 41' 28"E | L45 | 32.82' | N14° 35' 43"W |
| L6 | 13.91' | N44° 42' 32"W | L26 | 20.72' | N7° 52' 52"W | L46 | 34.77' | N30° 55' 22"E |
| L7 | 32.71' | S66° 40' 13"W | L27 | 46.74' | N33° 36' 07"E | L47 | 20.95' | N8° 58' 55"E |
| L8 | 10.64' | N81° 50' 48"W | L28 | 36.99' | N8° 15' 53"E | L48 | 32.71' | N47° 28' 40"E |
| L9 | 12.47' | N39° 39' 35"W | L29 | 16.05' | N20° 48' 44"W | L49 | 23.71' | N18° 28' 08"W |
| L10 | 17.77' | S88° 39' 15"W | L30 | 17.61' | N45° 06' 16"W | L50 | 18.86' | N32° 58' 49"E |
| L11 | 15.81' | N52° 23' 18"W | L31 | 17.05' | N7° 20' 26"E | L51 | 12.47' | N39° 16' 04"E |
| L12 | 24.93' | S80° 10' 36"W | L32 | 15.90' | N66° 15' 56"E | L52 | 18.18' | N20° 31' 05"W |
| L13 | 11.36' | N48° 25' 44"W | L33 | 33.89' | N26° 08' 19"E | L53 | 50.65' | N19° 56' 07"E |
| L14 | 9.14' | N25° 02' 06"W | L34 | 20.51' | N43° 59' 25"W | | | |
| L15 | 8.86' | S82° 25' 52"W | L35 | 42.13' | N13° 02' 35"W | | | |
| L16 | 13.56' | S61° 47' 57"W | L36 | 15.71' | N3° 35' 04"E | | | |
| L17 | 17.90' | N43° 33' 23"W | L37 | 8.24' | N22° 30' 16"W | | | |
| L18 | 4.77' | N7° 23' 24"W | L38 | 32.45' | N49° 45' 17"W | | | |
| L19 | 15.67' | N51° 45' 23"W | L39 | 27.19' | N8° 07' 14"E | | | |
| L20 | 9.87' | S77° 01' 47"W | L40 | 34.67' | N11° 00' 32"W | | | |

## SITE INFORMATION

1. SITE NAME: MDL0187 BISHOPVILLE ROAD SOLAR
2. SITE ADDRESS: BISHOPVILLE ROAD, BISHOPVILLE, MD 21813
3. OWNER: BISHOPVILLE VOLUNTEER FIRE DEPARTMENT INC, 10709 BISHOPVILLE RD, BISHOPVILLE, MD 21813, 410-352-5778
4. DEVELOPER: PIVOT ENERGY DEVELOPMENT I LLC, PIVOT ENERGY - SETH SHAFER, 1601 WEWATTA STREET, SUITE 700, DENVER, CO 80202, 410-709-4979
5. ENGINEER: BECKER MORGAN GROUP, INC., C/O EDWARD (TED) HASTINGS, PMP, 312 WEST MAIN STREET, SUITE 300, SALISBURY, MD 21801, 410-546-9100
6. GEOGRAPHIC COORDINATES: LATITUDE: 38°51'20.73"N; LONGITUDE: 76°19'76.50"W
7. TAX MAP: 9
8. PARCEL: 382
9. DEED BOOK/PAGE: 05875/ 00078
10. PARCEL AREA: 14.73 ACRES ±
11. ARRAY AREA: 4.75 ACRES ±
12. DISTURBED AREA: 6.35 ACRES ±
13. JURISDICTION: WORCESTER COUNTY
14. ZONE: A1 - AGRICULTURAL
15. MINIMUM YARD AND SETBACK REQUIREMENTS FOR SOLAR:
    - FRONT: 100 FEET
    - REAR: 100 FEET
    - SIDE: 100 FEET
    - ADJACENT DWELLING: 150 FEET
16. LAND USE:
    - EXISTING: AGRICULTURAL
    - PROPOSED: COMMUNITY SOLAR
17. FLOOD ZONE DETERMINATION: (BASED ON FLOOD INSURANCE RATE MAPS PROVIDED BY FEMA)
    - FIRM MAP: 24047C0030H
    - EFFECTIVE DATE: JULY 07, 2015
    - FIRM ZONE: "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
18. THIS PROPERTY IS NOT LOCATED IN THE CHESAPEAKE BAY CRITICAL AREA.
19. THIS PROPERTY IS LISTED IN MARYLAND HISTORIC TRUST DATABASE (MEDUSA - MARYLAND'S CULTURAL RESOURCE INFORMATION DATABASE).
20. WATER AND SEWER IS **NOT** PROPOSED FOR THE SITE.
21. WETLANDS AND ENVIRONMENTAL FEATURE AS SHOWN PER A PLAN TITLED WETLAND DELINEATION PLAN AS PROVIDED BY GEO-TECHNOLOGY ASSOCIATES, INC. DATED NOVEMBER 7, 2025 AND A WETLANDS DELINEATION REPORT PROVIDED BY GEO-TECHNOLOGY ASSOCIATES INC DATED APRIL 14, 2026.

Know what's below. Call before you dig.

SHOWN ON THESE CONSTRUCTION DRAWINGS ARE THOSE UTILITIES WHICH HAVE BEEN IDENTIFIED. IT IS THE RESPONSIBILITY OF THE LANDOWNERS OR OPERATORS AND CONTRACTORS TO ASSURE THEMSELVES NO HAZARD EXISTS OR DAMAGE WILL OCCUR TO UTILITIES.


BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

**Delaware**
Dover 302.734.7950
Newark 302.369.3700

**Maryland**
Salisbury 410.546.9100

**Virginia**
Virginia Beach 757.734.9110

**North Carolina**
Charlotte 980.270.9100
Raleigh 919.243.1332
Wilmington 910.341.7600

www.beckermorgan.com


PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TITLE

# MDL0187 BISHOPVILLE ROAD SOLAR

BISHOPVILLE RD.
BISHOPVILLE, MD
WORCESTER COUNTY

SHEET TITLE

## COVER SHEET

STATE OF MARYLAND — CHRISTOPHER P. DUKE — PROFESSIONAL ENGINEER — 53308

0 25 50 100

SCALE: 1" = 50'

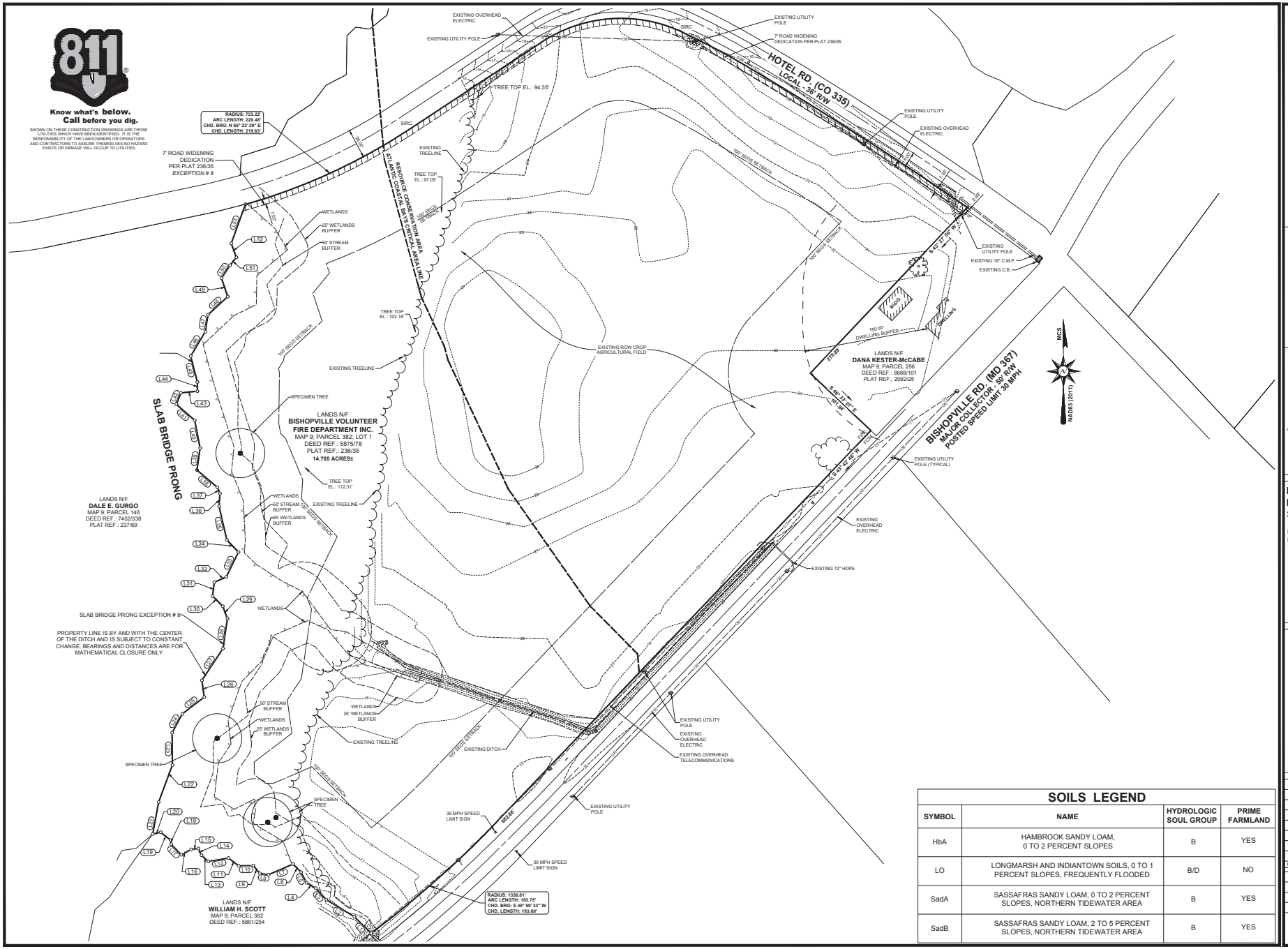
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| MARK | DATE | DESCRIPTION |

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|---|---|
| PROJECT NO.: | 2025372.00 |
| DATE: | 09/02/2026 |
| SCALE: | 1" = 50' |
| DRAWN BY: E.H.H. | PROJ. MGR.: E.H.H |

SHEET

# C-001

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## SOILS LEGEND

| SYMBOL | NAME | HYDROLOGIC SOUL GROUP | PRIME FARMLAND |
|---|---|---|---|
| HbA | HAMBROOK SANDY LOAM, 0 TO 2 PERCENT SLOPES | B | YES |
| LO | LONGMARSH AND INDIANTOWN SOILS, 0 TO 1 PERCENT SLOPES, FREQUENTLY FLOODED | B/D | NO |
| SadA | SASSAFRAS SANDY LOAM, 0 TO 2 PERCENT SLOPES, NORTHERN TIDEWATER AREA | B | YES |
| SadB | SASSAFRAS SANDY LOAM, 2 TO 5 PERCENT SLOPES, NORTHERN TIDEWATER AREA | B | YES |


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Raleigh 919.243.1332
Wilmington 910.341.7600
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PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TITLE

**MDL0187**
**BISHOPVILLE ROAD SOLAR**

BISHOPVILLE RD.
BISHOPVILLE, MD
WORCESTER COUNTY

SHEET TITLE

**EXISTING CONDITIONS PLAN**

STATE OF MARYLAND — CHRISTOPHER P. DUKES — PROFESSIONAL ENGINEER — 53308

0 25 50 100

SCALE: 1" = 50'

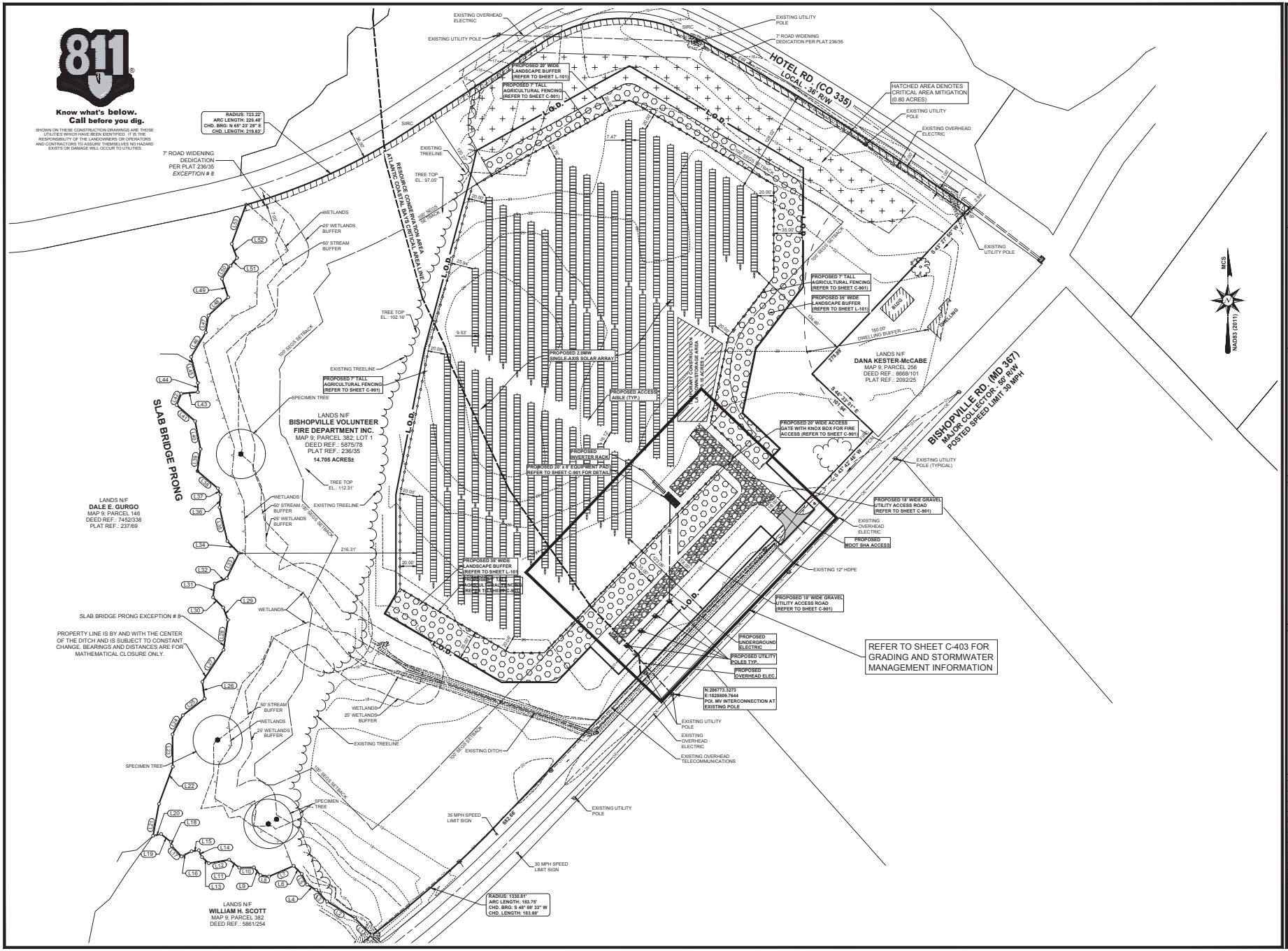
ISSUE BLOCK

| MARK | DATE | DESCRIPTION |
|---|---|---|

PROJECT NO.: 2025372.00
DATE: 09/02/2026
SCALE: 1" = 50'
DRAWN BY: E.H.H. | PROJ. MGR.: E.H.H

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C-101

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PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TITLE

**MDL0187**
**BISHOPVILLE ROAD SOLAR**

**BISHOPVILLE RD.**
**BISHOPVILLE, MD**
**WORCESTER COUNTY**

SHEET TITLE

**SITE PLAN**

STATE OF MARYLAND
CHRISTOPHER P. DUKE
PROFESSIONAL ENGINEER
53308
ENGINEERING

0 25 50 100

**SCALE: 1" = 50'**

ISSUE BLOCK

| MARK | DATE | DESCRIPTION |
|---|---|---|
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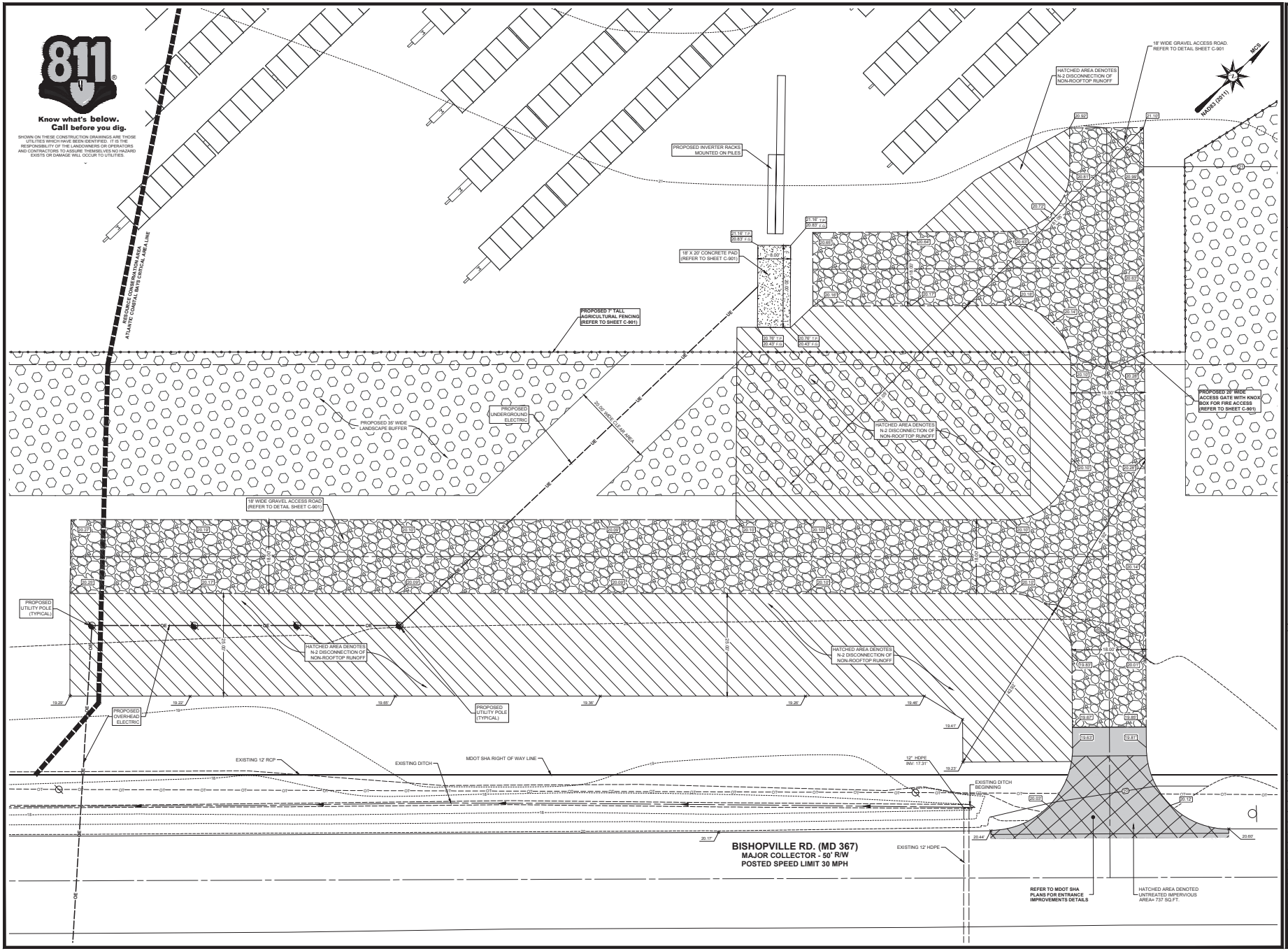
ADMINISTRATION

| | |
|---|---|
| **PROJECT NO.:** | **2025372.00** |
| **DATE:** | **09/02/2026** |
| **SCALE:** | **1" = 50'** |
| DRAWN BY: E.H.H. | PROJ. MGR.: E.H.H |

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PROJECT TITLE

**MDL0187**
**BISHOPVILLE ROAD SOLAR**

BISHOPVILLE RD.
BISHOPVILLE, MD
WORCESTER COUNTY

SHEET TITLE

**CONCEPT STORMWATER MANAGEMENT PLAN**

0 10 20 40
SCALE: 1" = 20'

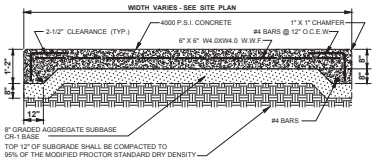
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| MARK | DATE | DESCRIPTION |
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|---|---|
| PROJECT NO.: | 2025372.00 |
| DATE: | 09/02/2026 |
| SCALE: | 1" = 50' |
| DRAWN BY: E.H.H. | PROJ. MGR.: E.H.H |

SHEET
C-401

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**NOTE:**
**CONTRACTOR TO PROVIDE CONTRACTION JOINTS AT A MINIMUM OF 10' SPACING WITH EXPANSION JOINTS AT A MINIMUM SPACING OF 20' AND WHEN ADJACENT TO FIXED OBJECTS SUCH AS CURB, WALLS, CONDUIT, ETC.**

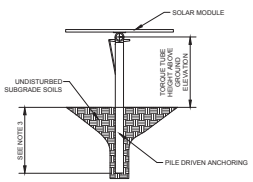
## 8" CONCRETE TRANSFORMER SLAB DETAIL

NO SCALE BMG NO.: SW-6D



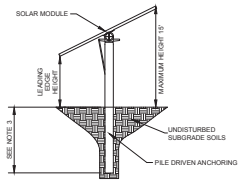

## DANGER SIGN DETAIL (11"X17" SIZE)

NO SCALE




## TYP. SIDE VIEW

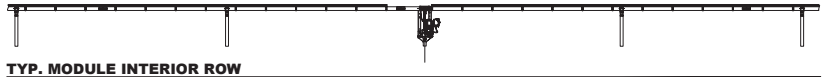
SCALE: 1/4" = 1'-0"




## TYP. SIDE VIEW WITH 20° TILT

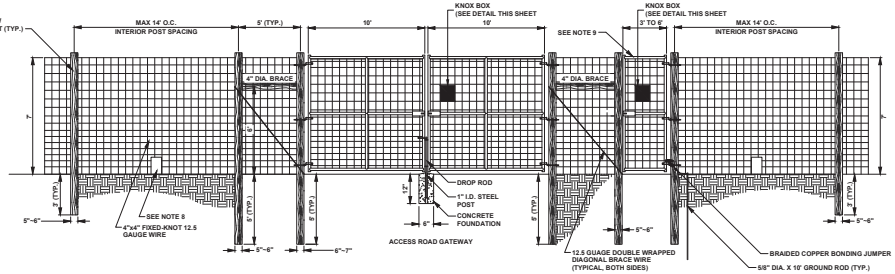
SCALE: 1/4" = 1'-0"

NOTES:
1. DRAWING IS DIAGRAMMATIC AS SHOWN AND INTENDED TO COMMUNICATE INTENT.
2. PILE SURVEYING SHALL BE PERFORMED BY A LICENSED SURVEYOR USING THE APPLICABLE STATE PLANE COORDINATE SYSTEM.
3. EPC TO DETERMINE PILE EMBEDMENT AND FOUNDATIONS PER STRUCTURAL CALCULATIONS FOR EACH TORQUE TUBE HEIGHT AND BASE
4. FOUNDATION AND RACKING SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION MANUAL AND WITHIN STATED TOLERANCES.
5. ALL GRADING AND DRAINAGE SHALL BE PER CIVIL CONSTRUCTION DRAWINGS.
6. EPC TO DETERMINE RACKING SPACING
7. ALL STRUCTURAL AND MECHANICAL DESIGNS TO BE PERFORMED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER.



## TYP. MODULE INTERIOR ROW

SCALE: 1/8" = 1'-0"




**NOTES :**

1. GATE SHALL BE DOUBLE SWING TYPE, PROVIDED WITH GATE HOLD BACKS, LOCKABLE GATE LATCH AND DROP BAR INSTALLED IN A MINIMUM OF 1 CUBIC FOOT OF CONCRETE. GATES SHALL BE INSTALLED AND BRACED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. ALL GATE POSTS SHALL BE A MINIMUM OF 6" IN DIAMETER OR AS RECOMMENDED BY THE INSTALLER.
2. PROVIDE HORIZONTAL AND DIAGONAL BRACING AT ALL CORNERS, PULL, TERMINAL AND GATE POSTS.
3. LINE POSTS SHALL BE SPACED AT A MAXIMUM OF 14'-0", SEE DETAIL FOR GATE POST SPACING.
4. POSTS SHALL BE ROUND, PRESERVATIVE-TREATED SOUTHERN YELLOW PINE CONFORMING TO ASTM D3200 (MINIMUM 6" DIA.).
5. HORIZONTAL WOOD BRACES SHALL BE PINNED OR DOWELED.
6. GATE SHALL BE PT WOOD (4" MIN. SQUARE STOCK), METAL (2"Ø BLACK COATED) OR APPROVED EQUIVALENT.
7. MESH SHALL BE HIGH TENSILE STEEL 4"X4" FIXED-KNOT 12.5 GAUGE WIRE.
8. CUT 8"WX12"H SMALL ANIMAL PASSAGES ON BOTTOM OF MESH AT 100 FOOT INTERVALS AROUND PERIMETER.
9. INSTALL 6' WIDE PEDESTRIAN GATES AT LOCATIONS SHOWN ON PLAN TO ALLOW GATE TO BE OPENED BY EMERGENCY SERVICES PERSONNEL FOR EMERGENCY WILDLIFE EGRESS.
10. SOIL ASSUMPTIONS

    FOUNDATION DESIGN IS BASED ON PRESUMPTIVE SOIL VALUES IN ACCORDANCE WITH IBC 2021 TABLE 1806.2

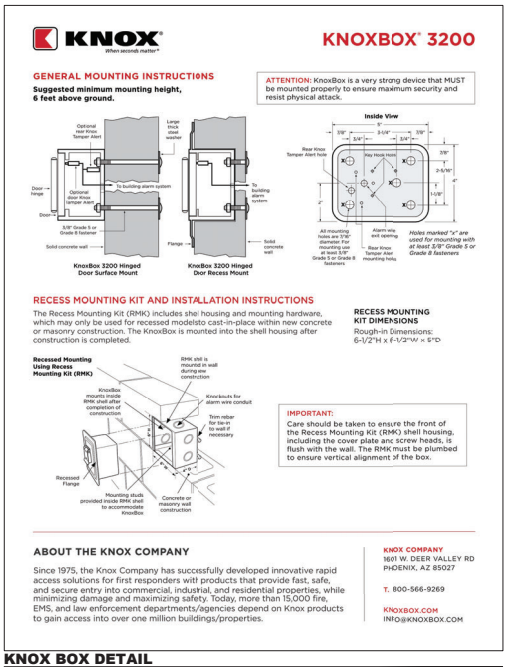
    SOIL IS ASSUMED TO BE SAND, SILTY, SAND, CLAYEY SAND, SILTY GRAVEL, OR CLAYEY GRAVEL UNLESS A GEOTECHNICAL REPORT INDICATED OTHERWISE. ALLOWABLE LATERAL BEARING PRESSURE ASSUMED: 150 PSI PER FOOT OF DEPTH BELOW FINISHED GRADE.

    IF SOILS ENCOUNTERED ARE WEAKER THAN THOSE LISTED ABOVE, ARE LOOSE, SATURATED, ORGANIC, OR OTHERWISE UNSUITABLE, THIS DETAIL SHALL NOT BE USED. ALTERNATIVE FOUNDATION DESIGN SHALL BE PROVIDED BY A REGISTERED ENGINEER.
11. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL. IF REVISIONS ARE NECESSARY TO PROVIDE WARRANTY, NOTIFY THE ENGINEER OF RECORD AND PROVIDE SIGNED AND SEALED DRAWINGS FOR REVIEW AND APPROVAL.

## 7' HIGH AGRICULTURAL FENCE DETAIL

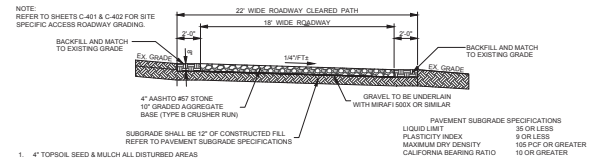
BMG NO.: SW-6SB

NO SCALE




## KNOX BOX DETAIL

NO SCALE




1. 4" TOPSOIL SEED & MULCH ALL DISTURBED AREAS

## TYPICAL 20' WIDE SUPER-ELEVATED ACCESS ROAD SECTION

NO SCALE


BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

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Newark 302.369.3700

**Maryland**
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410.546.9100

**Virginia**
Virginia Beach
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Raleigh 919.243.1332
Wilmington
910.341.7600

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PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TITLE

**MDL0187**
**BISHOPVILLE ROAD SOLAR**

**BISHOPVILLE RD.**
**BISHOPVILLE, MD**
**WORCESTER COUNTY**

SHEET TITLE

**CONSTRUCTION DETAILS**

STATE OF MARYLAND
CHRISTOPHER P. DUKE
PROFESSIONAL ENGINEER
35308

ISSUE BLOCK

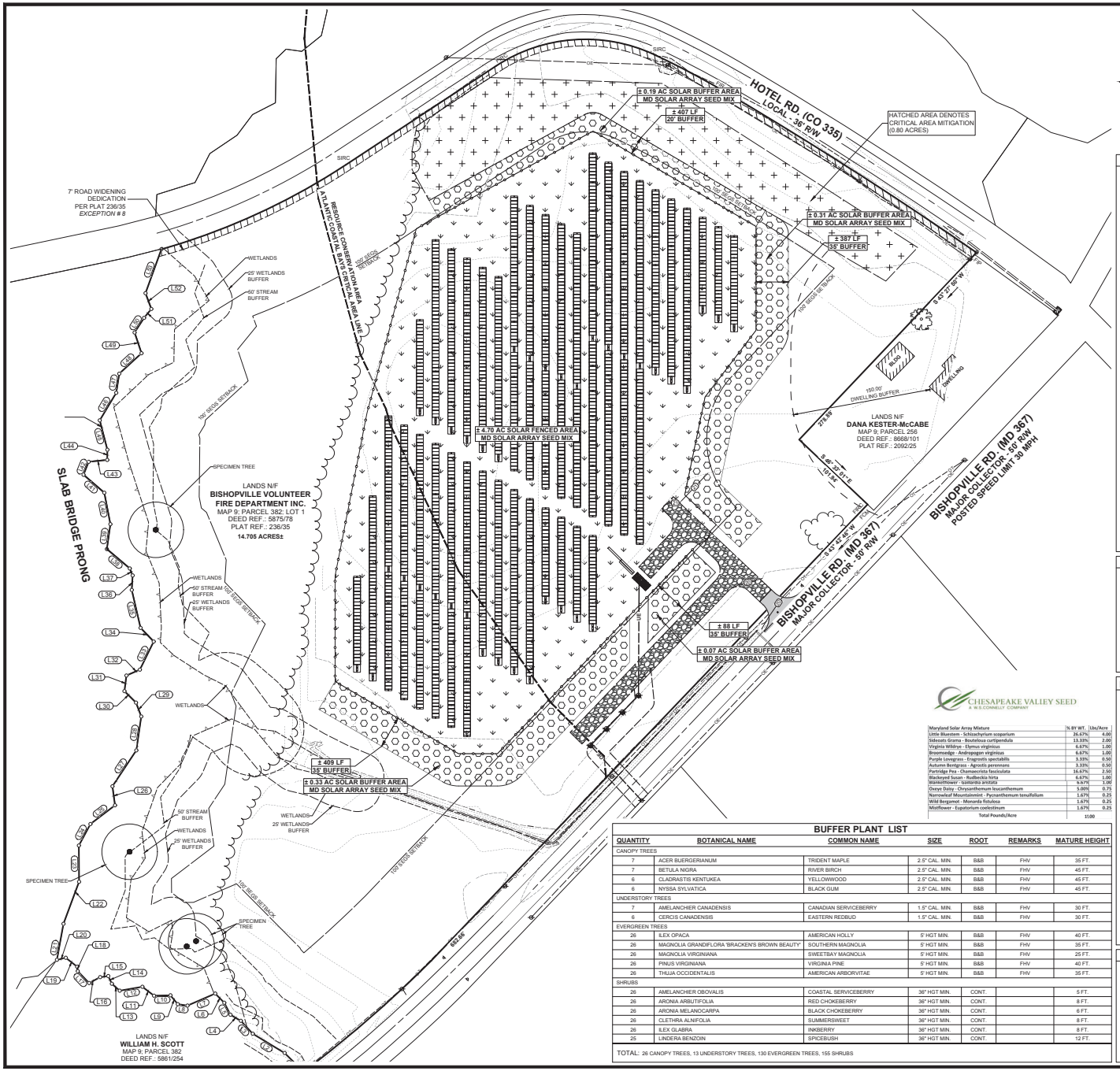
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| PROJECT NO.: | 2025372.00 |
| DATE: | 09/02/2026 |
| SCALE: | AS SHOWN |
| DRAWN BY: E.H.H. | PROJ. MGR.: E.H.H |

SHEET

**C-901**

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| LEGEND | |
|---|---|
| ITEM | HATCH |
| SOLAR BUFFER AREA | |
| SOLAR ARRAY FENCED AREA | |

## 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."

   EVERGREEN TREES SHALL HAVE A FULL, WELL-BRANCHED, CONICAL FORM TYPICAL OF THE SPECIES.

   ALL DECIDUOUS SHADE TREES SHALL BRANCH A MINIMUM OF 7'-0" ABOVE GROUND LEVEL. TREES SHALL BE PLANTED AND STAKED IN ACCORDANCE WITH THE DETAIL SHOWN.

   PLANT MATERIALS DELIVERED TO THE SITE IN UNCOVERED TRUCKS WILL BE REJECTED.

   UNACCEPTABLE PLANT MATERIALS: MATERIALS WHICH HAVE DAMAGED OR CROOKED LEADERS, DEFORMED GROWTH HABIT, ABRASIONS OF THE BARK, SUN SCALD, WINDBURN, DISFIGURING NOT COMPLETELY CALLUSED WILL BE REJECTED. IN ADDITION, TREES HAVING THEIR CENTRAL LEADERS HEADED BACK WILL ALSO BE REJECTED. PLANTS WITH LOOSE OR CRACKED ROOT BALL OR CONTAINERS WILL BE REJECTED.
2. ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL, FREE OF DRY SOD, STIFF CLAY, LITTER, STONES IN EXCESS OF ONE (1) INCH DIAMETER, ETC. SHALL BE USED FOR PLANTING.

   MULCH FOR PLANTING BEDS SHALL BE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SHALL HAVE NO LEAVES, YOUNG GREEN GROWTH, BRANCHES, TWIGS, GREATER IN DIAMETER OF ½", WEEDS, SHAVINGS OR FOREIGN MATERIAL SUCH AS STONES, ETC. SHALL BE MIXED WITH THE MULCH. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS WITH A LIGHTLY COMPACTED DEPTH OF THREE (3) INCHES. ALL CONTAINER PLANTS ARE TO HAVE ROOTS CUT ON FOUR SIDES AND/ OR SPREAD OUT IN NEW SOIL MIXTURE.
3. ALL AREAS NOT STABILIZED IN PAVING OR PLANT MATERIALS SHOULD BE SEEDED AND MULCHED. (SEE EROSION & SEDIMENT CONTROL PLAN AND NOTES.)
4. AREAS DISTURBED BY LANDSCAPE OPERATIONS SHALL BE GRADED TO MATCH EXISTING TOPSOIL AND SEED OR SOD AS REQUIRED.
5. 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.
6. NO PLANT, EXCEPT GROUNDCOVERS, SHALL BE WITHIN THREE (3) FEET FROM SIDEWALKS.
7. NO TREE SHALL BE PLANTED CLOSER THAN TEN (10) FEET FROM ANY STRUCTURE OR BUILDING.
8. NO TREE SHALL BE PLANTED WITHIN TEN (10) FEET OF UNDERGROUND UTILITIES OR FIRE HYDRANTS.
9. ONLY TREES THAT REACH A HEIGHT AND SIZE AT MATURITY OF SMALL TO MEDIUM SHALL BE PLANTED UNDER POWER LINES.
10. 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, UNLESS THE OWNER AGREES TO MAINTAIN AND WATER THEM.
11. TREES TO REMAIN ON-SITE SHALL BE PROTECTED WITH SNOW FENCE DURING CONSTRUCTION (SEE DETAIL). SNOW FENCING TO BE MAINTAINED DURING CONSTRUCTION BY CONTRACTOR.
12. THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
13. NO SUBSTITUTIONS SHALL BE MADE WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
14. ALL NEW TREES SHALL BE GUARANTEED TO SURVIVE FOR ONE FULL YEAR AFTER INSTALLATION (FULL COST). ALL STAKES AND GUYS SHALL BE REMOVED FROM TREES AND SITE AS EARLY AS THREE (3) MONTHS, BUT NO LONGER THAN ONE (1) YEAR AFTER PLANTING.

## LANDSCAPE BUFFER WATERING PLAN NOTES :

1. ALL NEWLY INSTALLED PLANTS WILL BE THOROUGHLY WATERED TWICE WITHIN THE FIRST 24-HOUR PERIOD FOLLOWING PLANTING
2. THEREAFTER, ALL PLANTS WILL BE WATERED WEEKLY, OR MORE FREQUENTLY AS NEEDED, THROUGHOUT THE FIRST GROWING SEASON TO ENSURE ADEQUATE SOIL MOISTURE AND PROMOTE HEALTHY ROOT ESTABLISHMENT.
3. WATERING WILL BE PERFORMED USING PORTABLE WATER CANNONS AND WATERING BAGS, ALLOWING FOR TARGETED AND EFFICIENT DELIVERY OF WATER DIRECTLY TO THE ROOT ZONES OF EACH PLANT.
4. A CONTRACTOR WILL MONITOR THE RAINFALL AT THE SITE AND THE SOIL MOISTURE FOR ALL LANDSCAPE BUFFER PLANTINGS ON A WEEKLY BASIS FOR THE FIRST TWO MONTHS AND THEN MONTHLY THEREAFTER FOR THE FIRST YEAR.
5. THE WATERING PLAN AND MONITORING WILL BE INCREASED AS NECESSARY TO ADDRESS DRY AND DROUGHT CONDITIONS.

## MARYLAND SOLAR BUFFER REQUIREMENTS:

1. PERIMETER BUFFER REQUIREMENT : THE REQUIRED BUFFER SHALL BE IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:
   - A. SHALL BE NOT MORE THAN 35 FEET WIDE
   - B. BE PROVIDED ALONG ALL PROPERTY LINES; LOCATIONS OF THE EXTERIOR BOUNDARY FOR THE SOLAR ENERGY GENERATING STATION WHERE EXISTING WOODED VEGETATION OF 50 FEET OR MORE IN WIDTH DOES NOT EXIST, OR AN ALTERNATIVE LOCATION WITHIN THE BOUNDARY FOR THE SOLAR ENERGY GENERATING STATION IF THE OWNER DEMONSTRATES THAT THE ALTERNATIVE LOCATION WOULD MAXIMIZE THE VISUAL SCREENING
   - C. PROVIDE FOR FOUR–SEASON VISUAL SCREENING OF THE SOLAR ENERGY GENERATING STATION
   - D. BE PLACED BETWEEN ANY FENCING AND THE PUBLIC VIEW
   - E. INCLUDE MULTI-LAYERED, STAGGERED ROWS OF OVERSTORY AND UNDERSTORY TREES AND SHRUBS THAT: ARE A MIXTURE OF EVERGREEN AND DECIDUOUS VEGETATION; ARE PREDOMINANTLY NATIVE TO THE REGION; ARE MORE THAN 4 FEET IN HEIGHT AT PLANTING; ARE DESIGNED TO PROVIDE SCREENING OR BUFFERING WITHIN 5 YEARS OF PLANTING; MAY NOT BE TRIMMED TO STUNT UPWARD OR OUTWARD GROWTH OR TO OTHERWISE LIMIT THE EFFECTIVENESS OF THE VISUAL OUTWARD GROWTH OR TO OTHERWISE LIMIT THE EFFECTIVENESS OF THE VISUAL SCREEN; CONFORM TO THE PLANT SIZE SPECIFICATIONS ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1); AND ARE SPECIFIED IN A LANDSCAPING PLAN PREPARED BY A QUALIFIED PROFESSIONAL LANDSCAPE ARCHITECT
2. PERIMETER BUFFER PROVIDED : 1,291 LF OF OPAQUE VEGETATIVE SCREENING
   REFER TO PLANT LIST FOR APPROVED SPECIES
3. BUFFER PLANTS PROVIDED : 1,291 LF / 100 LF @ 35' WIDE = 12.91 BUFFER UNITS
   12.91 BUFFER UNITS X 2 = 26 CANOPY TREES (MIN)
   12.91 BUFFER UNITS X 1 = 13 UNDERSTORY TREES (MIN)
   12.91 BUFFER UNITS X 10 = 130 EVERGREEN TREES (MIN)
   12.91 BUFFER UNITS X 12 = 155 SHRUBS (MIN)
4. GROUND COVER PROVIDED: SOLAR ARRAY FENCED AREA = 4.70 AC
   SOLAR BUFFER AREA = 0.90 AC

   TOTAL GROUND COVER ACREAGE: 5.6 ACRES

## MARYLAND LANDSCAPE ARCHITECTS CERTIFICATION

I, CHAD D. CARTER, RLA, ASLA, HEREBY CERTIFY THAT I AM A LANDSCAPE ARCHITECT IN THE STATE OF MARYLAND, THAT THE LANDSCAPING INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF, REPRESENTS GOOD LANDSCAPING PRACTICES.

CHAD D. CARTER, RLA, ASLA 3725 DATE

CHESAPEAKE VALLEY SEED
A W.S. CONNELLY COMPANY

| Maryland Solar Array Mixture | % BY WT. | Lbs/Acre |
|---|---|---|
| Little Bluestem - Schizachyrium scoparium | 26.67% | 4.00 |
| Sideoats Grama - Bouteloua curtipendula | 13.33% | 2.00 |
| Virginia Wildrye - Elymus virginicus | 6.67% | 1.00 |
| Broomsedge - Andropogon virginicus | 6.67% | 1.00 |
| Purple Lovegrass - Eragrostis spectabilis | 3.33% | 0.50 |
| Autumn Bentgrass - Agrostis perennans | 3.33% | 0.50 |
| Partridge Pea - Chamaecrista fasciculata | 16.67% | 2.50 |
| Blackeyed Susan - Rudbeckia hirta | 6.67% | 1.00 |
| Wainscotwort - Epilobium strictum | 9.67% | 1.00 |
| Ox-eye Daisy - Chrysanthemum leucanthemum | 5.00% | 0.75 |
| Narrowleaf Mountainmint - Pycnanthemum tenuifolium | 1.67% | 0.25 |
| Wild Bergamot - Monarda fistulosa | 1.67% | 0.25 |
| Mistflower - Eupatorium coelestinum | 1.67% | 0.25 |
| Total Pounds/Acre | | 15.00 |

## BUFFER PLANT LIST

| QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | REMARKS | MATURE HEIGHT |
|---|---|---|---|---|---|---|
| CANOPY TREES | | | | | | |
| 7 | ACER BUERGERIANUM | TRIDENT MAPLE | 2.5" CAL. MIN. | B&B | FHV | 35 FT. |
| 7 | BETULA NIGRA | RIVER BIRCH | 2.5" CAL. MIN. | B&B | FHV | 45 FT. |
| 6 | CLADRASTIS KENTUKEA | YELLOWWOOD | 2.5" CAL. MIN. | B&B | FHV | 45 FT. |
| 6 | NYSSA SYLVATICA | BLACK GUM | 2.5" CAL. MIN. | B&B | FHV | 45 FT. |
| UNDERSTORY TREES | | | | | | |
| 7 | AMELANCHIER CANADENSIS | CANADIAN SERVICEBERRY | 1.5" CAL. MIN. | B&B | FHV | 30 FT. |
| 6 | CERCIS CANADENSIS | EASTERN REDBUD | 1.5" CAL. MIN. | B&B | FHV | 30 FT. |
| EVERGREEN TREES | | | | | | |
| 26 | ILEX OPACA | AMERICAN HOLLY | 5' HGT MIN. | B&B | FHV | 40 FT. |
| 26 | MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY' | SOUTHERN MAGNOLIA | 5' HGT MIN. | B&B | FHV | 35 FT. |
| 26 | MAGNOLIA VIRGINIANA | SWEETBAY MAGNOLIA | 5' HGT MIN. | B&B | FHV | 25 FT. |
| 26 | PINUS VIRGINIANA | VIRGINIA PINE | 5' HGT MIN. | B&B | FHV | 40 FT. |
| 26 | THUJA OCCIDENTALIS | AMERICAN ARBORVITAE | 5' HGT MIN. | B&B | FHV | 35 FT. |
| SHRUBS | | | | | | |
| 26 | AMELANCHIER OBOVALIS | COASTAL SERVICEBERRY | 36" HGT MIN. | CONT. | | 5 FT. |
| 26 | ARONIA ARBUTIFOLIA | RED CHOKEBERRY | 36" HGT MIN. | CONT. | | 8 FT. |
| 26 | ARONIA MELANOCARPA | BLACK CHOKEBERRY | 36" HGT MIN. | CONT. | | 6 FT. |
| 26 | CLETHRA ALNIFOLIA | SUMMERSWEET | 36" HGT MIN. | CONT. | | 8 FT. |
| 26 | ILEX GLABRA | INKBERRY | 36" HGT MIN. | CONT. | | 8 FT. |
| 25 | LINDERA BENZOIN | SPICEBUSH | 36" HGT MIN. | CONT. | | 12 FT. |

TOTAL: 26 CANOPY TREES, 13 UNDERSTORY TREES, 130 EVERGREEN TREES, 155 SHRUBS


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PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TITLE

**MDL0187**
**BISHOPVILLE ROAD SOLAR**

BISHOPVILLE RD.
BISHOPVILLE, MD
WORCESTER COUNTY

SHEET TITLE

**LANDSCAPE PLAN**

0 25 50 100
SCALE: 1" = 50'

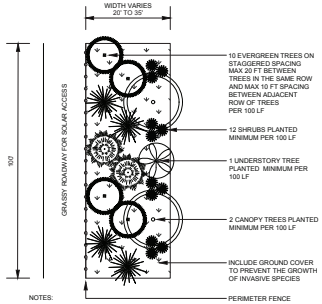
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| DRAWN BY: P.R.R. | PROJ. MGR.: E.H.H. |

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**L-101**

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NOTES:

BUFFERYARD PLANTINGS SHALL BE ARRANGED IN A WAY THAT DIAMETER OF TREES SHALL OVERLAP WHEN VIEWED AT A PERPENDICULAR ANGLE TO EFFECTIVELY ACHIEVE AN OPAQUE VISUAL BARRIER. DEVELOPER SHALL PROVIDE A MINIMUM OF TWO (2) STAGGERED ROWS OF EVERGREEN TREES PLACED AT MAXIMUM 20 FT APART WITHIN THE SAME ROW AND 10 FEET APART FROM THE ADJACENT, STAGGERED ROW. EVERGREEN TREES SHALL BE PLANTED AT A HEIGHT OF NO LESS THAN 5' AND AT A MINIMUM OF 3 SPECIES PER 100 LF OF BUFFER. NO PLANTED SPECIES SHALL MAKE UP MORE THAN 40% OF THE PLANTINGS.

BUFFERYARD SHALL ACHIEVE A FOUR SEASON VISUAL BARRIER. INCLUDE GROUNDCOVER TO MINIMIZE GROWTH OF INVASIVE SPECIES OR PROVIDE A MOWING SCHEDULE UNTIL THE AREA IS FULLY ESTABLISHED IN NATURAL CONDITION. THE BUFFER SHALL BE MAINTAINED TO PREVENT DISEASE FROM SPREADING AND ANY TREES THAT DO NOT SURVIVE SHALL BE REPLACED

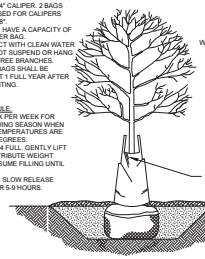
## MARYLAND SOLAR BUFFER DETAIL

NO SCALE BMG NO. : L-06

NOTE:
1 BAG SHALL BE USED FOR TREES FROM 1" TO 4" CALIPER. 2 BAGS SHALL BE USED FOR CALIPERS FROM 4" TO 8".
BAGS SHALL HAVE A CAPACITY OF 15-20 GAL. PER BAG.
FILL PRODUCT WITH CLEAN WATER ONLY. DO NOT SUSPEND OR HANG BAG FROM TREE BRANCHES.
WATERING BAGS SHALL BE REMOVED AT 1 FULL YEAR AFTER INITIAL PLANTING.

FILL SCHEDULE:
FILL BAGS 1X PER WEEK FOR FIRST GROWING SEASON WHEN AVERAGE TEMPERATURES ARE ABOVE 40 DEGREES.
FILL BAGS 1/4 FULL. GENTLY LIFT BAG TO DISTRIBUTE WEIGHT EVENLY. RESUME FILLING UNTIL FULL.
BAGS SHALL SLOW RELEASE WATER OVER 5-9 HOURS.

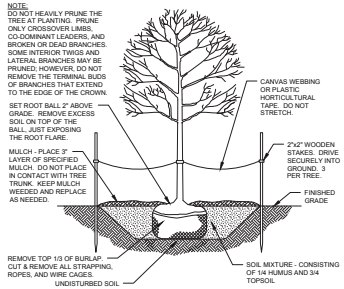
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## TREE WATERING BAG DETAIL

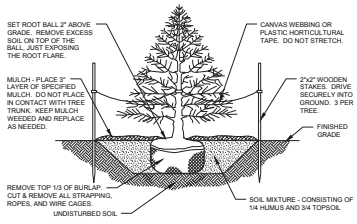
NO SCALE BMG NO. : L-10

NOTE:
DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.




## DECIDUOUS TREE PLANTING DETAIL

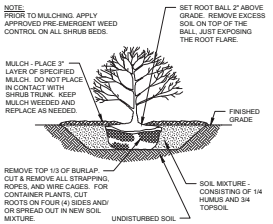
NO SCALE BMG NO. : L-01




## EVERGREEN TREE PLANTING DETAIL

NO SCALE BMG NO. : L-02

NOTE:
PRIOR TO MULCHING, APPLY APPROVED PRE-EMERGENT WEED CONTROL ON ALL SHRUB BEDS.




## SHRUB PLANTING DETAIL

NO SCALE BMG NO. : L-03

BECKER MORGAN GROUP

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ISSUE BLOCK

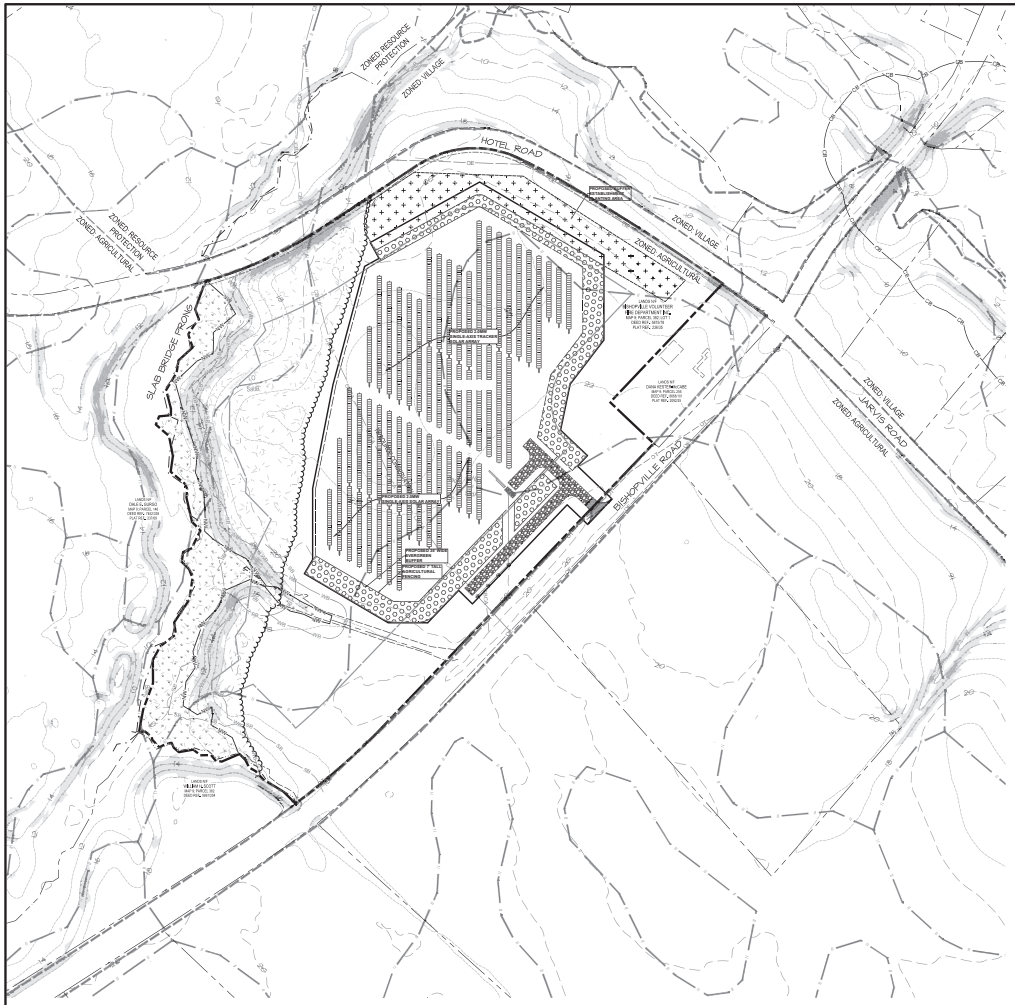
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| DRAWN BY: P.R.R. | PROJ. MGR.: E.H.H. |

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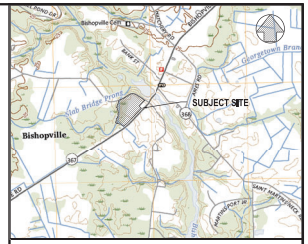
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## GENERAL INFORMATION

1. LOCATION: NORTHWEST OF BISHOPVILLE ROAD AND SOUTHWEST OF HOTEL ROAD IN THE BISHOPVILLE AREA OF WORCESTER COUNTY, MARYLAND
2. PROPERTY OWNER: BISHOPVILLE VOLUNTEER FIRE DEPARTMENT INC 10709 BISHOPVILLE ROAD BISHOPVILLE, MARYLAND 21813
3. PLAN PREPARED BY: GEO-TECHNOLOGY ASSOCIATES, INC. (GTA) 3445-A BOX HILL CORPORATE CENTER DRIVE ABINGDON, MARYLAND 21009 ATTN: MR. MATTHEW JENNETTE
4. TAX MAP / PARCEL: 009 / 04
5. DEED REFERENCE: 05875 / 00078
6. LOT AREA: 14.7± ACRES (7.4 ACRES WITHIN CBCA)
7. ZONING: AGRICULTURAL
8. THE SUBJECT SITE IS LOCATED WITHIN THE 021301030692 SUBWATERSHED, WITHIN THE ISLE OF WIGHT BAY WATERSHED (02130103).
9. THE INFORMATION SHOWN ON THIS PLAN IS NOT MEANT FOR ENGINEERING PURPOSES.
10. THIS PLAN WAS PREPARED ON A TOPOGRAPHIC AND EXISTING CONDITIONS BASE MAP PROVIDED BY BECKER MOAGAN GROUP, INC.
11. THE FOREST STAND DELINEATION FIELDWORK WAS PERFORMED BY GTA IN NOVEMBER 2025. A WETLAND DELINEATION WAS PERFORMED BY GTA IN OCTOBER 2025. AS A RESULT OF GTA'S REVIEW, IT IS GTA'S PROFESSIONAL OPINION THAT THERE ARE WETLANDS AND WATERBODIES PRESENT WITHIN THE SUBJECT SITE. WETLANDS AND STREAMS SHOWN ON THIS PLAN WERE DELINEATED AND GPS LOCATED BY GTA WITH A MAPPING GRADE GPS INSTRUMENT RATED WITH SUBMETER ACCURACY.
12. SPECIMEN TREES WERE MEASURED USING A DIAMETER TAPE. SPECIMEN TREES WERE MARKED IN THE FIELD BY BLUE FLAGGING TIED AROUND THEIR TRUNKS AND LOCATED BY GTA USING A GLOBAL POSITIONING SYSTEM (GPS) UNIT RATED WITH SUB-METER ACCURACY. SPECIMEN TREES LOCATED WITHIN FORESTED AREAS ARE SHOWN WITH A CRITICAL ROOT ZONE OF 1 FOOT FOR EVERY INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH). SPECIMEN TREES LOCATED OUTSIDE FORESTED AREAS ARE SHOWN WITH A CRITICAL ROOT ZONE OF 1.5 FEET FOR EVERY INCH OF TREE DBH. GTA IDENTIFIED FOUR (4) SPECIMEN TREES WITHIN THE SUBJECT SITE.
13. PER FEMA FIRM MAP NUMBER 24047C0030H, EFFECTIVE JULY 16, 2015, THERE ARE NO AREAS OF 100-YEAR FLOODPLAIN WITHIN THE SUBJECT SITE.
14. THE SUBJECT SITE GENERALLY DRAINS WEST TOWARDS SLAB BRIDGE PRONG. IN THE VICINITY OF THE SUBJECT SITE, SLAB BRIDGE PRONG AND ITS TRIBUTARIES ARE CLASSIFIED IN COMAR 26.08.02.08 AS DESIGNATED USE "CLASS I: WATER CONTACT RECREATION, AND THE PROTECTION OF NONTIDAL WARMWATER AQUATIC LIFE."
15. THE SUBJECT SITE IS NOT LOCATED WITHIN A TIER II WATERSHED AS DEFINED IN COMAR 26.08.02.04-2.
16. PORTIONS OF THE SUBJECT PROPERTY ARE LOCATED WITHIN THE ATLANTIC COASTAL BAYS CRITICAL AREA AND IS CLASSIFIED AS RESOURCE CONSERVATION AREA (RCA).
17. IN ACCORDANCE WITH THE WORCESTER COUNTY CRITICAL AREA ORDINANCE, THE CRITICAL AREA BUFFER IS A MINIMUM 100-FOOT BUFFER DELINEATED LANDWARD FROM THE MEAN HIGH WATER LINE OF TIDAL WATERS; THE EDGE OF EACH BANK OF A TRIBUTARY STREAM; AND THE UPLAND BOUNDARY OF A TIDAL WETLAND. THE BUFFER SHALL BE EXPANDED BEYOND THE MINIMUM 100-FOOT BUFFER FOR AREAS OF HYDRIC SOILS OR HIGHLY ERODIBLE SOILS TO THE LESSER OF: THE LANDWARD EDGE OF THE HYDRIC OR HIGHLY ERODIBLE SOILS; OR 300 FEET WHERE THE EXPANSION AREA INCLUDES THE MINIMUM 100-FOOT BUFFER. FOR DEVELOPMENT WITHIN THE CBCA RCA, THE MINIMUM 100-FOOT BUFFER IS EXPANDED TO 200 FEET FROM A TIDAL WATERBODY OR TIDAL WETLANDS; AND A BUFFER OF AT LEAST 100-FEET FROM A TRIBUTARY STREAM, WHICHEVER IS GREATER. THE SUBJECT SITE DOES NOT INCLUDE AN EXPANDED CRITICAL AREA BUFFER.
18. THERE IS NO PROPOSED DISTURBANCE WITHIN THE CRITICAL AREA BUFFER OR FORESTED AREAS IN THE SUBJECT SITE.
19. THIS PLAN WAS PREPARED BY GTA FOR THE SOLE AND EXCLUSIVE USE OF BECKER MORGAN GROUP, INC. ANY REPRODUCTION OF THIS PLAN BY ANY OTHER PERSON WITHOUT THE EXPRESSED WRITTEN PERMISSION OF GTA AND BECKER MORGAN GROUP, INC. IS UNAUTHORIZED, AND SUCH USE IS AT SOLE RISK OF THE USER.




## VICINITY MAP

SCALE: 1"=2,000'
UNITED STATES GEOLOGICAL SURVEY, SELBYVILLE, DE, MD QUADRANGLE, 7.5 MINUTE TOPOGRAPHIC MAP SERIES, DATED 2023.

## LEGEND

- SUBJECT SITE
- EX. PROPERTY BOUNDARY
- EX. 2-FOOT CONTOUR
- EX. 10-FOOT CONTOUR
- EX. SOIL BOUNDARY
- EX. ZONING
- EX. BUILDING
- EX. EASEMENT
- CBCA — EX. ATLANTIC COASTAL BAYS CRITICAL AREA
- EX. INTERMITTENT STREAM
- EX. PERENNIAL STREAM
- SB — EX. 50' STREAM BUFFER
- WB — EX. 25' WETLAND BUFFER
- EX. NONTIDAL WETLAND
- EX. SLOPES 15% - 25%
- EX. STEEP SLOPES >25%
- EX. FORESTED AREAS
- PR. EVERGREEN BUFFER PLANTING AREA
- PR. BUFFER ESTABLISHMENT PLANTING AREA (35,086 SF)
- PR. SOLAR ARRAY

NORTH

0' 25' 50' 75' 100'

SCALE: 1"=100'

## SOILS TABLE

| SYMBOL[1] | NAME/DESCRIPTION[1] | HYDRIC SOIL[2] | HYDRIC COMPONENT[2] | PERCENTAGE OF MAPPING UNIT[2] | POSITION IN LANDSCAPE[2] | K-FACTOR[1] |
|---|---|---|---|---|---|---|
| HbA | HAMBROOK SANDY LOAM, 0 TO 2% SLOPES | NO | - | - | - | 0.32 |
| LO | LONGMARSH AND INDIANTOWN SOILS, 0 TO 1% SLOPES FREQUENTLY FLOODED | YES | LONGMARSH, FREQUENTLY FLOODED | 43 | FLOODPLAINS | - |
| | | | INDIANTOWN, FREQUENTLY FLOODED | 37 | | |
| | | | ZEKIAH | 10 | | |
| | | | MANAHAWKIN, FREQUENTLY FLOODED | 5 | SWAMPS, FLOODPLAINS | |
| SadA | SASSAFRAS SANDY LOAM, 0 TO 2% SLOPES, NORTHERN TIDEWATER AREA | NO | - | - | - | 0.20 |
| SadB | SASSAFRAS SANDY LOAM, 2 TO 5% SLOPES, NORTHERN TIDEWATER AREA | NO | - | - | - | 0.20 |
| Za | ZEKIAH SANDY LOAM, FREQUENTLY FLOODED | YES | ZEKIAH | 75 | FLOODPLAINS | 0.17 |
| | | | LONGMARSH | 10 | FLOODPLAINS | |
| | | | ASKECKSY, UNDRAINED | 5 | FLATS, DRAINAGEWAYS, DEPRESSIONS, SWALES | |
| | | | FALLSINGTON, UNDRAINED | 5 | | |

1. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WORCESTER COUNTY, MARYLAND, SOIL SURVEY DATA VERSION 23, DATED SEPTEMBER 9, 2025.
2. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, HYDRIC SOILS LIST BY STATE. AVAILABLE AT HTTPS://EFOTG.SC.EGOV.USDA.GOV/REFERENCES/PUBLIC/IL/STATE_LIST_NRCS_HYDRIC_SOILS_REPORT_DYNAMIC_DATA.HTML AND ACCESSED ON NOVEMBER 20, 2025.

## MITIGATION SUMMARY

IN ACCORDANCE WITH WORCESTER COUNTY CODE § NR 3-107(C)(3)E AND § NR 3-108(C)(7), MITIGATION PLANTINGS ARE REQUIRED FOR 15% OF THE TOTAL PROJECT AREA FOR A SUBJECT AREA HAVING LESS THAN FIFTEEN PERCENT OF ITS NET TRACT AREA IN FOREST COVER. APPROXIMATELY 7.4 ACRES OF THE SUBJECT SITE IS LOCATED WITHIN THE ATLANTIC COASTAL BAYS CRITICAL AREA AND 1.1 ACRES REQUIRED FOR AFFORESTATION, THERE IS APPROXIMATELY 0.3 ACRES OF EXISTING FOREST IN THE CRITICAL AREA. THE APPLICANT MUST ESTABLISH 0.8 ACRES OF VEGETATION TO MEET THE 15% REQUIREMENT.

LONG-TERM PLANTING PROTECTION AGREEMENT

BY SIGNING, I HEREBY UNDERSTAND AND AGREE THAT I AM RESPONSIBLE FOR THE HEALTH OF THE TREE PLANTINGS AS INDICATED ON THIS PLAN. I AGREE TO MONITOR THE PLANTINGS FOR A PERIOD OF 2 YEARS AND WILL REPLACE IN KIND ANY PLANTING THAT MAY DIE DURING THAT TIME.

SIGNATURE: _____ DATE: _____

PLANTING INSPECTION AGREEMENT

BY SIGNING, I AGREE TO ALLOW REPRESENTATIVES FROM WORCESTER COUNTY TO INSPECT THE PLANTINGS AT APPROPRIATE TIMES FOR A PERIOD OF TWO YEARS.

SIGNATURE: _____ DATE: _____

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CRITICAL AREA MANAGEMENT PLAN
**MDL187 BISHOPVILLE ROAD SOLAR**
WORCESTER COUNTY, MARYLAND

REVISIONS:

| | |
|---|---|
| JOB NO: | 31252668 |
| SCALE: | 1" = 100' |
| DATE: | SEPTEMBER 24, 2026 |
| DRAWN BY: | DIA |
| DESIGN BY: | |
| REVIEW BY: | MAJ |
| SHEET: | 1 OF 2 |

## CRITICAL AREA BUFFER ESTABLISHMENT PLANTING - STANDARDS AND SPECIFICATIONS

THIS PROJECT PROPOSES TO ESTABLISH 15% OF THE CHESAPEAKE BAY CRITICAL AREA BUFFER (35,086 SF) THROUGH LANDSCAPING STOCK, CONSISTENT WITH *COMAR 27.01.09.01-2.*

1. PLANT MATERIAL SELECTION

A. ALL PLANT MATERIALS GREATER THAN 1" CALIPER SHALL MEET OR EXCEED THE REQUIREMENTS OF THE AMERICAN NURSERYMENS ASSOCIATION STANDARDS. ALL PLANTS SHALL BE TYPICAL OF THE SPECIES AND VARIETY, SHALL HAVE A NORMAL HABIT OF 535 GROWTH, AND SHALL BE FIRST QUALITY, SOUND, VIGOROUS, WELL-BRANCHED, AND WITH HEALTHY, WELL-FURNISHED ROOT SYSTEMS. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, AND MECHANICAL INJURIES.

B. PLANTING STOCK LESS THAN 1" CALIPER SHOULD MEET THE FOLLOWING STANDARDS.

SEEDLINGS/WHIPS:
HARDWOODS - ¼" TO ½" CALIPER WITH ROOTS NOT LESS THAN 8" LONG
CONIFERS - ¼" TO ½" CALIPER WITH ROOTS NOT LESS THAN 8" LONG AND TOP HEIGHT OF 6" OR MORE
SHRUBS ¼" OR LARGER CALIPER WITH 8" ROOT SYSTEM

2. PLANTING SITE PREPARATION

A. UNDISTURBED SITES.

DISTURBANCE OF SOILS SHOULD BE LIMITED TO THE PLANTING FIELD FOR EACH PLANT. FOR PLANTINGS WHERE LARGE STOCK IS CHOSEN, THE PLANTING FIELD OF RADIUS OF 5 TIMES THE DIAMETER OF THE ROOT BALL IS RECOMMENDED.

IN AREAS OF STEEP SLOPES OR ERODIBLE SOILS, SOIL DISTURBANCE SHOULD BE LIMITED TO THE PLANTING FIELD WHOSE RADIUS IS EQUAL TO 2.5 X DIAMETER OF THE ROOT BALL.

B. DISTURBED AREAS.

SOILS SHOULD BE TREATED BY INCORPORATING NATURAL MULCH WITHIN THE TOP 12 INCHES, OR AMENDMENTS AS DETERMINED BY A SOILS ANALYSIS. NATURAL AMENDMENTS, SUCH AS ORGANIC MULCH OR LEAF MOLD COMPOST, ARE PREFERRED.

IF FILL MATERIAL IS USED AT THE PLANTING SITE, IT SHOULD BE CLEAN FILL WITH 12 INCHES OF NATIVE SOIL. STOCKPILING OF NATIVE TOPSOILS MUST BE DONE IN SUCH A WAY THAT THE HEIGHT OF THE PILE DOES NOT DAMAGE THE SEED BANK. IF NATIVE TOPSOILS ARE NOT PRESENT ON THE SITE, SUITABLE IMPORTED CLEAN SOIL SHALL BE USED.

3. PLANTING PERIOD

DEPENDING ON THE SIZE STOCK BEING USED, THE ALLOWABLE PLANTING WINDOWS DIFFER.

4. PLANT MATERIAL STORAGE

IT IS RECOMMENDED THAT PLANTING OCCUR WITHIN 24 HOURS OF DELIVERY TO THE SITE. PLANT MATERIALS WHICH ARE LEFT UNPLANTED FOR MORE THAN 24 HOURS SHOULD BE PROTECTED FROM DIRECT SUN AND WEATHER AND KEPT MOIST. BARE ROOT STOCK, WHICH ARE UNPLANTED FOR MORE THAN 24 HOURS, SHOULD BE HEELED IN. NURSERY STOCK SHOULD NOT BE LEFT UNPLANTED FOR MORE THAN 2 WEEKS. ON-SITE OR LOCAL TRANSPLANTED MATERIALS SHOULD BE STORED IN TREE BANKS IF UNPLANTED FOR MORE THAN 24 HOURS.

5. ON-SITE INSPECTION

PRIOR TO PLANTING, PLANTING STOCK SHOULD BE INSPECTED. PLANTS NOT CONFORMING TO STANDARD NURSERYMAN SPECIFICATIONS FOR SIZE, FORM, VIGOR, ROOTS, TRUNK WOUNDS, INSECTS, AND DISEASE SHOULD BE REPLACED.

6. PLANTING SPECIFICATIONS

A. SEEDLINGS/WHIPS

PLANTING SMALL STOCK, SUCH AS SEEDLINGS AND WHIPS, AND BALLED AND BURLAPPED STOCK UP TO 2" CALIPER, CAN BE ACCOMPLISHED USING MANUAL METHODS OF PLANTING. SATISFACTORY EQUIPMENT INCLUDES SHOVELS, PLANTING OR DIBBLE BARS, AND MATTOCKS. FOR LARGER AREAS, PLANTING MACHINES MAY BE USED, BUT LINEAR, PLANTATION-TYPE PLANTINGS SHOULD BE AVOIDED.

EXTREME CARE SHOULD BE TAKEN TO INSURE RETAINED MOISTURE OF THE ROOTS, WHILE PLANTING SEEDLINGS AND WHIPS. A MOIST CARRYING CONTAINER SHOULD BE USED TO FURTHER PREVENT DESICCATION. FOR GREATER PROTECTION, SEEDLINGS MAY BE PLANTED WITH TREE SHELTERS.

AREAS PLANTED WITH SEEDLINGS OR WHIPS SHOULD BE MULCHED AFTER PLANTING.

B. CONTAINER-GROWN STOCK

SUCCESSFUL PLANTING OF CONTAINER-GROWN STOCK REQUIRES CAREFUL SITE PREPARATION AND INSPECTION OF THE PLANT MATERIAL ROOT SYSTEM. CAUTION IS RECOMMENDED WHEN SELECTING PLANTS GROWN IN A SOILS MEDIUM DIFFERENT FROM THAT OF THE PLANTING SITE. THE PLANT SHOULD BE REMOVED FROM THE CONTAINER AND THE ROOTS GENTLY LOOSENED FROM THE SOILS. IF THE ROOTS ENCIRCLE THE ROOT BALL, SUBSTITUTION IS STRONGLY RECOMMENDED. J-SHAPED OR KINKED ROOT SYSTEMS SHOULD ALSO BE NOTED AND SUBSTITUTED IF NECESSARY. ROOTS MAY NOT BE TRIMMED ON-SITE DUE TO THE INCREASED CHANCES OF SOIL BORNE DISEASES.

THE PLANTING FIELD SHOULD BE PREPARED AS SPECIFIED. NATIVE STOCKPILED SOILS SHOULD BE USED TO BACKFILL PLANTING FIELD, RAKE SOILS EVENLY OVER THE PLANTING FIELD AND COVER WITH 2 TO 4 INCHES OF MULCH.

7. PLANTING METHODS

PLANTING FIELDS SHOULD BE CREATED, USE WATERING TO SETTLE SOIL BACKFILLED AROUND TREES. STOCKPILED NATIVE TOPSOILS, IF AVAILABLE, SHOULD BE USED TO BACKFILL THE PLANTING FIELD. AMENDMENTS ARE NOT RECOMMENDED IN THE PLANTING FIELD, AS STUDIES HAVE SHOWN THAT ROOTS WILL BE ENCOURAGED TO STAY WITHIN THE AMENDED SOILS. SOILS SHOULD BE RAKED EVENLY OVER THE PLANTING FIELD AND COVERED WITH 2 TO 4 INCHES OF MULCH.

STAKING OF TREES IS NOT RECOMMENDED EXCEPT IN AREAS OF HIGH WINDS. STAKINGS MAY BE USED FOR TREES LARGER THAN 8 FEET IN HEIGHT. MOVEMENT IS NECESSARY TO STRENGTHEN THE TRUNK OF THE PLANTED TREE. IF STAKES ARE USED, THEY SHOULD BE REMOVED AFTER THE FIRST GROWING SEASON. WRAPPING IS ALSO NOT RECOMMENDED DUE TO THE INCREASED OPPORTUNITIES FOR INSECT INFESTATION AND DISEASE.

8. POST CONSIDERATIONS

A. SOIL STABILIZATION

FOR AREAS OF LARGE-SCALE DISTURBANCE, SOILS MUST BE STABILIZED USING A NON-TURF-BUILDING GROUND COVER OR ENGINEERING FABRIC.

B. PROTECTION DEVICES

TO PREVENT DAMAGE OF PLANTED AREAS, ALL REFORESTATION AND AFFORESTATION SITES MUST BE POSTED WITH APPROPRIATE SIGNS AND FENCED. CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED IN THESE AREAS.

C. WATERING

HOW OFTEN?

ANY WATERING PLAN SHOULD COMPENSATE FOR RECENT RAINFALL PATTERNS. TREES CAN DIE FROM TOO MUCH WATER, AS WELL AS TOO LITTLE. NEWLY PLANTED TREES MAY NEED WATER AS MUCH AS ONCE A WEEK FOR THE ENTIRE GROWING SEASON. THE NEXT TWO YEARS MAY REQUIRE WATERING ONLY A FEW TIMES A YEAR, EVERY MONTH DURING JULY AND AUGUST, AFTER THAT PERIOD. TREES SHOULD ONLY NEED WATER IN SEVERE DROUGHTS, BARE ROOT TRANSPLANTS, AS OPPOSED TO BALLED AND BURLAP MATERIAL, IF THEY WERE SUFFICIENTLY WATERED DURING PLANTING, MAY NOT NEED WATER FOR ALMOST 2-4 WEEKS AFTER GROWTH BEGINS.

SOIL AND WATERING

SOIL TEXTURE INFLUENCES THE DOWNWARD FLOW OF WATER. SOILS WITH MORE CLAY TEND TO HOLD ON TO THE WATER MORE AND CAN BE WATERED LESS OFTEN; SOILS WITH MORE SAND DRAIN MORE QUICKLY AND NEED TO BE WATERED MORE OFTEN.

IF THE SOIL WAS WELL PREPARED BEFORE PLANTING, THEN THERE SHOULD NOT BE MANY DRAINAGE PROBLEMS. IF THERE IS RESTRICTED DOWNWARD FLOW OF WATER, THEN THE SOIL MAY HAVE BEEN COMPACTED DURING CONSTRUCTION AND NOT AERATED BEFORE PLANTING, OR THERE MAY BE A CLAY HARDPAN.

HOW TO WATER

THE BEST WAY TO WATER IS DEEPLY AND SLOWLY, USING A REGULAR HOSE, A SOAKER HOSE, OR DRIP IRRIGATION. ON LARGER TREES, START BY WATERING THE ROOT BALL THOROUGHLY AND THEN EXPAND THE WATERED AREA TO INCLUDE THE WHOLE ROOT ZONE AFTER THE TREE BECOMES MORE ESTABLISHED, MULCHING AROUND THE BASE OF NEWLY TRANSPLANTED TREES INSULATES ROOTS FROM DRYING TOO QUICKLY WHILE STILL PROVIDING AIR MOVEMENT TO THE ROOTS.

D. FERTILIZING

WHAT NUTRIENTS TO APPLY

TREES DEPEND ON THREE MAJOR NUTRIENTS: NITROGEN, PHOSPHORUS, AND POTASSIUM, AND A HOST OF OTHER MINOR ONES (OR MICRO), SUCH AS CALCIUM, MAGNESIUM, AND IRON. IN MOST SOILS, MOST OF THE MICRO ARE AVAILABLE IN ABUNDANCE, OF THE MAJOR NUTRIENTS, NITROGEN IS USUALLY THE LIMITED NOTHING SHOULD BE ADDED TO THE SOIL WITHOUT TESTING IT FIRST TO DETERMINE IT'S NEEDS.

WHEN TO FERTILIZE

IN GENERAL, WHILE SOILS MAY BE DEFICIENT IN NITROGEN, IT IS NOT RECOMMENDED TO FERTILIZE A TREE WITHIN THE FIRST GROWING SEASON AFTER PLANTING, TOO MUCH NITROGEN MAY CAUSE A SPURT OF CANOPY GROWTH, WHICH THE ROOTS CANNOT SUPPORT. IT IS BEST TO WAIT UNTIL AFTER THE END OF THE FIRST GROWING SEASON, EITHER IN THE LATE FALL OR EARLY SPRING.

WHAT TYPE OF FERTILIZER

WHENIT IS TIME TO FERTILIZE, ORGANIC FERTILIZERS ARE PREFERRED TO SYNTHETIC FERTILIZERS. BONE MEAL OR SEAWEED PRODUCTS ARE AVAILABLE COMMERCIALLY. THEIR EFFECTIVENESS IS BASED ON THEIR ABILITY TO SUPPLY NUTRIENTS TO THE PLANT AS NEEDED WHILE MINIMIZING THE RISK OF EXCESS NUTRIENTS ENTERING THE FOREST SYSTEM AND THE WATER SUPPLY. SOME SYNTHETIC FERTILIZERS CAN MIMIC THIS SLOW ACTION AND MAY BE APPROPRIATE FOR USE.

E. CONTROL OF COMPETING VEGETATION

IN SOME CASES, UNWANTED VEGETATION GROWING NEAR NEWLY PLANTED TREES CAN TAKE OVER THE SITE. THE EXTENT TO WHICH THIS PROBLEMIS CONTROLLED DEPENDS ON THE ABILITY OF THE PLANTED MATERIAL TO WITHSTAND THE INTRUSION. SMALLER TREES NEED MORE CARE, ALTHOUGH SOME SEEDLINGS SURVIVE AMONG THE OVERGROWTH AND SHADE IT OUT WHEN THEY REACH A GREATER HEIGHT. AS A PREVENTIVE MEASURE, CONSIDER THE POTENTIAL FOR GROWTH OF INVASIVE SPECIES WHILE CHOOSING A REFORESTATION OR AFFORESTATION AREA. UNFORTUNATELY, GOOD SITES FOR REFORESTATION AND AFFORESTATION ARE GENERALLY GOOD SITES FOR UNWANTED VEGETATION AS WELL.

MULCH IS ONE OF THE BEST DETERRENTS TO WEEDS. SPREAD A 3-4" LAYER OF MULCH OVER THE ROOT AREA OF THE NEWLY PLANTED TREES AVOIDING DIRECT CONTACT WITH THE TRUNK, A PRIME SPOT FOR FUNGAL GROWTH. MULCH HELPS MAINTAIN THE SOIL MOISTURE LEVEL AND MAY PROVIDE A BUFFER FOR ANY EQUIPMENT, SUCH AS MOWERS, THAT MAY BE BROUGHT THROUGH THE AREA. MULCHING AND MANUAL CONTROL OF COMPETING VEGETATION IS MORE COMPATIBLE WITH THE LONG-TERM FOREST HEALTH THAN THE USE OF HERBICIDES.

F. PROTECTION: PESTS, DISEASES AND MECHANICAL INJURY

AN INTEGRATED PEST MANAGEMENT (IPM) PROGRAM IS ONE OF THE MOST EFFECTIVE AND SAFE APPROACHES FOR MAINTAINING A HEALTHY FOREST. THE BASICS OF IPM INCLUDE PROPER SPECIES SELECTION FOR THE SITE, GOOD PRUNING, MULCHING AND FERTILIZING PRACTICES, REGULAR MONITORING, AND PROPER TIMING OF NECESSARY

GOOD CULTURAL PRACTICES WILL MINIMIZE THE AMOUNT OF SPRAYING. PROFESSIONAL IPM PROGRAMS HAVE REDUCED PESTICIDE USE BY 90%. SOME ASPECTS OF A FULL IPM PROGRAM INCLUDE:

1. ELIMINATION OF SOME LOW VEGETATION BEFORE PLANTING. THIS WILL HELP CONTROL THE RODENT POPULATION, WHICH THRIVES IN BRUSHY ENVIRONMENTS.

2. USE OF TREE SHELTERS TO PROTECT THE TRUNKS OF SEEDLINGS OR WHIPS FROM ANIMAL DAMAGE. THE SHELTERS ACT AS MINI GREENHOUSES TO SPEED GROWTH. THESE TREES NEED MORE WATER THAN THOSE PLANTED WITHOUT TREE SHELTERS.

3. MULCHING AROUND THE TREES TO MINIMIZE INVASION BY EXOTIC PLANT SPECIES.

4. PRUNING DEAD AND DISEASED BRANCHES WITH A CLEAN CUT TO PREVENT SPREADING OF DISEASE.

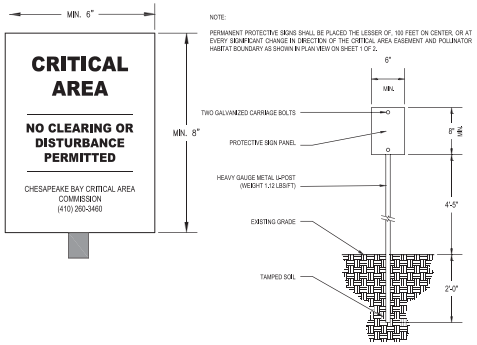
SUNSCALD IS A PROBLEM, WHICH THIN, YOUNG TREES ENCOUNTER. TREE WRAP IS COMMONLY USED TO PROTECT THESE TREES FROM SUNSCALD, BUT IS NOT RECOMMENDED DUE TO THE INCREASE OPPORTUNITIES FOR INSECT INFESTATION AND DISEASE. AN ALTERNATIVE IS TO ALLOW SMALL NONCOMPETITIVE BRANCHES, COMMONLY PRUNED, TO GROW ALONG THE SUNNY SIDE OF THE TRUNK TO HELP SHADE THE TRUNK.

NEWLY PLANTED TREES USUALLY DO NOT HAVE THE STRUCTURAL ROOTS TO SUPPORT THEM DURING HIGH STAKES AND GUY WIRES. APPROPRIATE ONLY IN LOCATIONS WITH HIGH WINDS, SHOULD BE USED, BUT MUST BE REMOVED AFTER ONE GROWING SEASON OR THEY MAY CAUSE DAMAGE TO THE TREE AS IT GROWS.

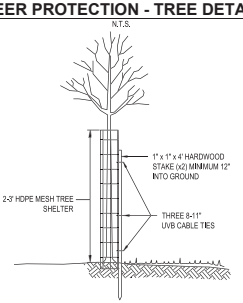
G. PERFORMANCE & MONITORING REQUIREMENTS

1. PER COMAR 27.01.09.01-2, THE MINIMUM SURVIVAL RATE SHALL BE ONE-HUNDRED (100) PERCENT OF THE TOTAL NUMBER OF TREES, SHRUBS, AND HERBS PLANTED PER ACRE AT THE END OF THE TWO-YEAR MAINTENANCE AGREEMENT. REINFORCEMENT PLANTING TO BRING THE NUMBER OF TREES, SHRUBS, AND HERBS UP TO ONE-HUNDRED (100) PERCENT OF THE NUMBER ORIGINALLY PLANTED WILL BE REQUIRED IF THE REQUIRED SURVIVAL RATE HAS NOT BEEN MET.

## SIGNAGE (TYP.)



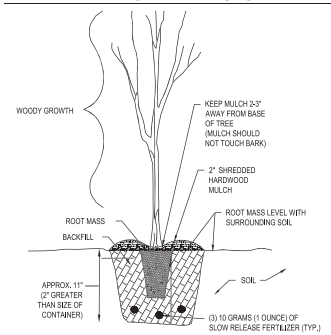

## DEER PROTECTION - TREE DETAIL




## BUFFER ESTABLISHMENT TREE PLANTING SPECIFICATIONS

| PLANTING AREA ($FT^2$) | CREDITED $FT^2$ | QUANTITY OF *ACER RUBRUM* | QUANTITY OF *LIQUIDAMBAR STYRACIFLUA* | QUANTITY OF *QUERCUS PALUSTRIS* | QUANTITY OF *PLATANUS OCCIDENTALIS* | SIZE | SPACING |
|---|---|---|---|---|---|---|---|
| 35,086 | 35,100 | 89 | 88 | 87 | 87 | 3/4" - 1" CALIPER | 10' ON CENTER |
| TOTAL NUMBER OF PLANTINGS: | | 351 | | | | | |

## CONTAINER STOCK TREE AND SHRUB PLANTING DETAIL




N.T.S.

TREE AND SHRUB PLANTING NOTES:

1. CUT MATTING IN A SINGLE VERTICAL SLIT.
2. PLANTING HOLE SHOULD BE AT LEAST TWICE DIAMETER OF THE PLANT'S CONTAINER.
3. DIG HOLE 2" DEEPER THAN THE DEPTH OF CONTAINER, THEN BACKFILL TO PROPER DEPTH. FIRM BOTTOM SOIL BEFORE SETTING PLANT.
4. CONTAINERS WITH SLANTED SIDES MAY BE INVERTED AND TAPPED TO REMOVE THE PLANT. STRAIGHT-SIDED CONTAINERS SHOULD BE SLIT OR CUT TO ALLOW PLANT REMOVAL. DO NOT PULL THE PLANT FREE FROM ITS CONTAINER!
5. PRUNE ANY BOUND ROOTS FROM THE OUTSIDE OF THE ROOT MASS. GENTLY SCARIFY SIDES OF ROOT MASS WITH HANDS, BUT KEEP ROOT MASS INTACT.
6. PLACE SLOW RELEASE FERTILIZER UNIFORMLY AROUND THE HOLE'S PERIMETER AT ONE HALF THE HOLE'S DEPTH WHILE BACKFILLING WITH SOIL.
7. SET PLANT SO THAT THE TOP OF THE ROOT MASS IS LEVEL WITH THE SURROUNDING SOIL.
8. BACKFILL WITH QUALITY SOIL FREE OF ROCK AND STONE. PACK FIRMLY WITH FEET.
9. DO NOT "MOUND" THE PLANT.
10. REINSTALL MATTING BY PULLING TOGETHER SEAMS AND STAKING ABOVE AND BELOW INSTALLED PLANTING.
11. ADD MULCH
12. WATER PLANT GENEROUSLY. ADD ADDITIONAL SOIL IF BACKFILL SETTLES AFTER WATERING.
13. INSTALL DEER PROTECTION SHELTERS AROUND ALL TREES AND SHRUBS.


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CRITICAL AREA MANAGEMENT PLAN
**MDL187 BISHOPVILLE ROAD SOLAR**
WORCESTER COUNTY, MARYLAND

REVISIONS:

| | |
|---|---|
| JOB NO: | 31252668 |
| SCALE: | 1" = 100' |
| DATE: | SEPTEMBER 24, 2026 |
| DRAWN BY: | DIA |
| DESIGN BY: | |
| REVIEW BY: | MAJ |
| SHEET: | 2 OF 2 |