GENERAL NOTES

- 1. THE SUBJECT PROPERTY IS ZONED RR-DEO, PER THE 2013 COMPREHENSIVE
- 2. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS. A DESIGN MANUAL WAIVER (WP-21-018) TO DESIGN MANUAL, VOLUME III, SECTION 1.3 C STREET TYPES COUNTY ROAD WAS APPROVED JULY 22, 2022. A FEE-IN-LIEU IN THE AMOUNT OF \$27,481.00 IS TO BE CREDITED TO CAPITAL PROJECT NUMBER J-4711 AND PAID AT EXECUTION OF THE DEVELOPER AGREEMENT.
- THE DEVELOPER AGREEMENT.

 3. THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON AERIAL SURVEY PROVIDED BY USGS FOR THE PROJECT AREA. OUTSIDE OF THE PROJECT AREA, APPROXIMATE TOPOGRAPHY IS SHOWN PER HOWARD COUNTY GIS.
- 4. THE PROJECT BOUNDARY IS BASED ON A ALTA SURVEY PREPARED BY
 LANDTECH CORPORATION, FIELD DATE AUGUST 2021, PREPARED
 SEPTEMBER 2021
- 5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLAND AND WETLAND BUFFERS, STREAM AND STREAM BUFFERS, AND FOREST CONSERVATION EASEMENTS.
- THERE ARE THREE PERENNIAL STREAMS ON-SITE. THERE IS ONE NON-TIDAL PALUSTRINE FORESTED WETLAND SYSTEM ON-SITE. SEE WETLAND DELINEATION REPORT PREPARED BY WRIGHT ENVIRONMENTAL & LAND SERVICES, LLC (AUGUST 2021). THE STREAMS AND WETLAND ARE OUTSIDE THIS PROJECT'S LIMITS OF DISTURBANCE AND ARE TO REMAIN.
 THERE IS NO FEMA 100 YEAR FLOODPLAIN LOCATED ON-SITE.
- 9. NO PARKS, PRESERVES OR PUBLIC OPEN SPACES ARE LOCATED WITHIN THE PROJECT SITE.
- 10. NO STEEP SLOPES 25% OR GREATER OVER 20,000 SF ARE CONTIGUOUS
 ON-SITE
- 11. LANDSCAPING IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL AND SHOWN ON THE CERTIFIED LANDSCAPE PLAN WITHIN THIS SITE DEVELOPMENT PLAN. FINANCIAL SURETY IN THE AMOUNT OF \$27,000.00 FOR THE REQUIRED 23 SHADE TREES AND 134 EVERGREEN TREES. IF THE EXISTING BUFFERS ARE CLEARED, IT IS THE DEVELOPERS' RESPONSIBILITY TO REPLANT A LANDSCAPE TYPE 'D' BUFFER WITHIN 6 MONTHS OF CLEARING PER THE PROVIDED AFFIDAVIT SIGNED BY COMMUNITY POWER GROUP. THE FINANCIAL SURETY FOR THE LANDSCAPING SHALL BE PROVIDED WITH THE GRADING PERMIT APPLICATION.
- 12. FOREST CONSERVATION OBLIGATIONS FOR THIS PROJECT SHALL BE ADDRESSED BY A FOREST CONSERVATION PLAN AS SUBMITTED WITH THIS SITE DEVELOPMENT PLAN AND PREPARED BY WRIGHT ENVIRONMENTAL & LAND SERVICES, LLC. THE LOCATION OF THE FOREST CONSERVATION EASEMENT IS TO BE ESTABLISHED IN THE SOUTHWEST CORNER OF THE SITE
- (AS SHOWN ON THE FOREST CONSERVATION PLAN).

 13. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED. A PLOT TO ESTABLISH THE 5.14 ACRES ON-SITE FOREST RETENTION EASEMENT WAS RECORDED IN THE LAND RECORDS OF HOWARD COUNTY ON MAY 26, 2023 AS PLAT NO. 26338.

36. THIS PROJECT IS SUBJECT TO A CONDITIONAL USE APPROVAL, FILED AS

SECTION 131.0.N.52 OF THE ZONING REGULATIONS.

activities, uses, or structures on the Property.

local, state, and federal laws and provisions.

of the solar collectors and the panel disconnect.

Section 16.1206 of the Howard County Code.

ALONG TEN OAKS ROAD.

3. Petitioner shall comply with all Conditional Use standards.

interest in the commercial ground-mount solar collector facility.

tree buffers on Areas 1-5 remain

DECOMMISSIONING

BA-21-006C AND THE AMENDED DECISION AND ORDER GRANTED BY THE

HEARING EXAMINER ON AUGUST 16, 2021, SUBJECT TO THE 11 CONDITIONS AS

ENUMERATED ON THE AMENDED DECISION AND ORDER IN ACCORDANCE WITH

THE USE CEASES. THE PROPERTY OWNER SHALL SECURE THIS OBLIGATION BY

MAINTAINING A BOND, ESCROW, OR OTHER FORM OF SECURITY IN THE AMOUNT

EQUAL TO THE ESTIMATED FUTURE COST OF REMOVAL. THIS COST ESTIMATE

(\$227,364) HAS BEEN APPROVED BY HOWARD COUNTY AND WILL BE FULFILLED.

1. The Commercial Ground Mount Solar Collector Facility Conditional Use shall be conducted

in conformance with and shall only to the Petition as submitted and as shown on the

2. The Petitioner shall be granted relief from the Type "D" Landscape Buffer required for the

4. The Site Development Plan, or its equivalent, shall include a note containing all conditions

The systems installed by the Petitioner on the Property shall comply with all applicable

7. A commercial ground-mount solar collector facility that is no longer used shall be removed

from the site within 6 months of the date that the use ceases. The Property Owner shall

amount equal to the estimated future cost of removal, that is acceptable to the Director of

care or replacement of plant materials required in the landscaping plan. The responsibility

Rescue Services. The registration shall include a map of the solar facility noting the location

secure this obligation by maintaining a bond, escrow, or other form of security, in an

8. The premises shall be maintained at all times in a clean and orderly condition, including the

for compliance with this provision shall be with all parties having a lease or ownership

11. All required landscaping shall be provided within 6 months of installation of the solar panels.

DEVELOPED BY THE US DEPARTMENT OF ENERGY. THE RESULTS OF THE STUDY

9. The applicant shall agree to register all solar collectors with the Department of Fire and

10. Tree removal shall be minimized, and reforestation shall be done in accordance with

A. THE PETITIONER SUBMITTED A GLARE STUDY USING GLARE MODELING TOOL

RESIDENTIAL PROPERTIES TO THE SOUTH AND NO IMPACTS TO MOTORISTS

CONDITIONAL USE APPLICATION (BA-21-006C) RELATED TO THIS PROJECT ON

OWNER/DEVELOPER AN ALTERNATIVE COMPLIANCE APPROVAL TO SECTION

16.128(C)(1) OF THE SUBDIVISION/LAND DEVELOPMENT REGULATIONS TO HOST A

VIRTUAL PRE-SUBMISSION COMMUNITY MEETING DURING THE COVID-19 STATE

HOSTING A VIRTUAL PUBLIC MEETING.THE VIRUTAL MEETING WAS HELD DURING

—-—-- EX. CENTERLINE

PROJECT ZONING OFFSET DRAINAGE AREA BOUNDARY

— OHW — EX. OVERHEAD WIRE

PROPOSED P-1 PAVEMENT

SLOPE > 15%

EVERGREEN TREE

DECIDUOUS TREE

2x2 GRAVEL TRENCH

EXISTING EASEMENT

EX. SEPTIC EASEMENT

DISCONNECTION AREA

OF EMERGENCY. THE OWNER/DEVELOPER WAS REQUIRED TO COMPLY WITH

DPZ'S VIRTUAL PRE-SUBMISSION MEETING GUIDELINES FOR APPLYING FOR

CONCLUDED THAT THERE WILL BE NO GLARE RELATED IMPACTS TO

B. A VIRTUAL PRE-SUBMISSION COMMUNITY MEETING WAS HELD FOR THE

C. THIS PLAN IS SUBJECT TO WP-21-047, WHICH GRANTED THE PROPERTY

THE TIME THE STATE OF EMERGENCY WAS IN EFFECT.

STREAM CENTERLINE

INTERCONNECTION PATH

PROPOSED UTILITY POLE

SOILS BOUNDARY

EXISTING TREELINE

EXISTING WETLAND

PROPOSED FENCE EXISTING FOREST

CONSERVATION AREA

HOWARD COUNTY GEODETIC

CONTRACTOR TO FIELD VERIFIED

PROPOSED COMMON

ACCESS EASEMENT

-LOD-LOD- LIMIT OF DISTURBANCE

CONTROL POINT

— – – PARCEL BOUNDAR

— — STREAM BUFFER

—X——X— EX. METAL FENCE

CONTOUR

Petitioner shall comply with all federal, state, and local laws and regulations.

Conditional Use Plan dated April 2021 submitted with the Petition, and not to any other

areas identified on the Plan as Areas 1-5, provided that the existing vegetation and existing

- 14. WETLANDS SHOWN ONSITE ARE BASED ON ENVIRONMENTAL REPORT BY WRIGHT ENVIRONMENTAL & LAND SERVICES, LLC. THERE ARE NO WETLANDS WITHIN THE LIMITS OF DISTURBANCE ASSOCIATED WITH THIS
- PROJECT.

 15. GEOTECHNICAL REPORT FOR THE PROJECT AREA HAS BEEN COMPLETED BY ECS MID-ATLANTIC, LLC AND WAS SUBMITTED AS AN APPENDIX TO THE STORMWATER REPORT VIA PROJECTDOX TO HOWARD COUNTY AS PART OF THE SITE DEVELOPMENT PLAN REVIEW.
- 16. A NOISE STUDY IS NOT REQUIRED FOR THIS SITE
- 17. A TRAFFIC STUDY AND A 85TH PERCENTILE SPEED STUDY ARE NOT REQUIRED FOR THIS SITE. THERE IS NO TRAFFIC GENERATED BY THIS PROJECT AND THUS IT IS EXEMPT FROM THE ADEQUATE PUBLIC FACILITIES ORDINANCE.
- 18. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC STRUCTURES LOCATED ON THIS PROPERTY
- 19. STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF NON-STRUCTURAL PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. NON-STRUCTURAL PRACTICES INCLUDE NON ROOFTOP DISCONNECTION (N-2). THESE FACILITIES WILL BE PRIVATELY
- 20. ISOLATED SURFACE SMOOTHING AND/OR FINE GRADING MAY BE REQUIRED TO SUPPORT SOLAR EQUIPMENT INSTALLATION. HOWEVER, NO MASS GRADING WILL BE REQUIRED. ISOLATED FINE GRADES WILL BE PROVIDED
- WITH THE SITE DEVELOPMENT PLAN SUBMISSION, AS REQUIRED.

 21. THIS PLAN INCORPORATES THE LIMIT OF DISTURBANCE FOR THE SOLAR PROJECT. THE AREAS OUTSIDE THE LIMIT OF DISTURBANCE ARE NOT
- THIS PROJECT SITE IS ASSOCIATED WITH THE FOLLOWING DPZ FILES: WP-95,095, SDP-96-124, SDP-07-099, BA-07-018C, WP-21-047, BA-21-006C,
- 23. AN ENVIRONMENTAL CONCEPT PLAN (ECP-22-013) WAS APPROVED ON JANUARY 21, 2022.
- 24. THERE ARE NO WATER/SEPTIC SERVICES ASSOCIATED WITH THIS PROJECT.
 25. THIS PROJECT IS NOT WITHIN THE METROPOLITAN DISTRICT.
 26. ONE PARKING SPACE (50 FEET X 20 FEET) IS PROVIDED.
- 27. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.

 28. ANY DAMAGE TO STATE OR COUNTY RIGHT-OF-WAY, PAVING, OR EXISTING
- UTILITIES WILL BE CORRECTED AT THE DEVELOPER'S EXPENSE.

 29. THERE ARE NO EXISTING BUILDINGS OR STRUCTURES WITHIN THE PROJECT LIMITS. THE EXISTING CULVERT WITHIN THE PROJECT AREA IS TO REMAIN.

FIRE AND EMERGENCY SAFETY NOTES: 30. TRAINING SHALL BE PROVIDED BY

INFORMATION FOR SITE REPRESENTATIVES.

OWNED AND MAINTAINED

30. TRAINING SHALL BE PROVIDED BY THE DEVELOPER FOR THE OPERATION AND DEMONSTRATION OF SAFE OPERATION OF SHUTOFF SWITCHES.
31. THE DEVELOPER IS TO PROVIDE SIGNAGE/MARKINGS TO PROVIDE EMERGENCY RESPONDERS APPROPRIATE WARNINGS AND GUIDANCE WITH RESPECT TO WORKING AROUND AND ISOLATING SOLAR ELECTRIC SYSTEMS, ELECTRICAL HAZARDS PRESENT AND 24 HOUR EMERGENCY CONTACT

TRAFFIC CONTROL DEVICES:

- IRAFFIC CONTROL DEVICES:

 32. THE R1-1 (STOP) SIGN AND STREET NAME SIGN (SNS) ASSEMBLY FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE BASE PAVING IS COMPLETE, IF
- 33. THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNT TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
- 34. ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES (MD MUTCD).
- 35. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED (QUICK PUNCH) SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO (QUICK PUNCH) HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON THE TOP OF EACH POST.

APPROVED: DEPARTMENT OF PLANNING AND ZONING Docusigned by: (HD) Edmondson CHIEF, DEVELOPMENT ENGINEERING DIVISION Docusigned by: 1EB75478A22B49A CHIEF, DIVISION OF LAND DEVELOPMENT Docusigned by: 4220B635863942E DATE DATE

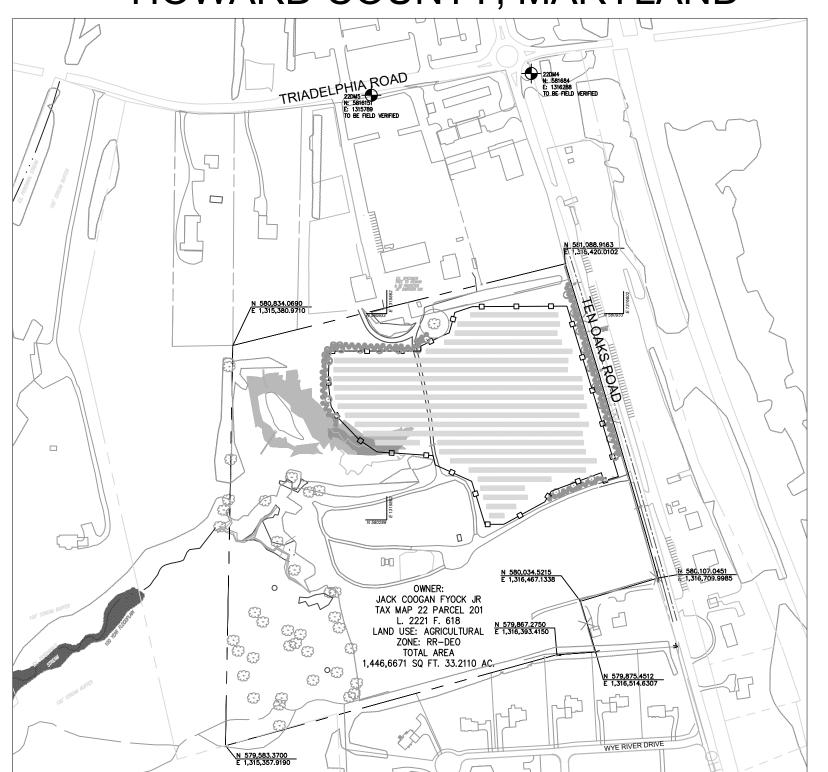
SITE DEVELOPMENT PLAN

PREPARED FOR

GLENELG SOLAR

GROUND MOUNT SOLAR COLLECTOR FACILITY

3950 TEN OAKS ROAD HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE 1" = 300'
ADC MAP COORDINATES: PAGE 30 / GRID 1D
0 300' 600'



DEVELOPER/ENGINEER
COMMUNITY POWER GROUP, LLC
5636 CONNECTICUT AVENUE NW #42729
WASHINGTON, DC 20015
CONTACT: MICHAEL BORKOWSKI
MBORKOWSKI@COMMUNITYPOWERGROUP.COM

OWNER
JACK COOGAN FYOCK JR
13705 TRIADELPHIA ROAD
GLENELG, MD 21737

SITE ANALYSIS DATA							
TOTAL PROJECT AREA	8.9± ACRES						
GREEN OPEN AREA (LAWN)	8.83± ACRES						
IMPERVIOUS AREA	0.07± ACRES						
PROPOSED SITE USES	SOLAR FACILITY (+ EX. TREE FARM TO REMAIN)						
TOTAL SITE AREA	33.211 ACRES						
WETLANDS AND WETLAND BUFFERS	11,256 SF (0.2584 ACRES); ALL OUTSIDE OF PROJECT LIMITS						
STREAMS AND STREAM BUFFERS	2,642 LF; ALL OUTSIDE OF PROJECT LIMITS						
FLOODPLAINS	NONE						
EXISTING FOREST	5.15 ACRES; ALL OUTSIDE OF PROJECT LIMITS						
SLOPES GREATER THAN 15%	7,299± SF						
HIGHLY ERODIBLE SOILS	7,299± SF						

PROJECT NARRATIVE

THIS PROJECT INCLUDES THE CONSTRUCTION OF A 1.99 MEGAWATT (AC) SOLAR FACILITY IN HOWARD COUNTY MARYLAND. THE EXISTING SITE IS A CLEARED FIELD, PREVIOUSLY PARTIALLY USED AS A TREE FARM. TREE FARMING OPERATIONS ARE TO REMAIN ON-SITE, OUTSIDE OF THE PROJECT BOUNDARY AS LABELED WITHIN THIS PLAN SET. THE SOLAR FACILITY AND THE TREE FARM WILL OPERATE SEPARATELY, WITH NO OVERLAP IN OPERATIONAL AREA. THERE WILL BE A SHARED ACCESS EASEMENT FOR THE DRIVEWAY FOR WHICH BOTH USES WILL UTILIZE.

THE PURPOSE OF THIS PLAN IS TO INDICATE THE LOCATION AND CONSTRUCTION SPECIFICATIONS FOR A SOLAR FACILITY AND ASSOCIATED FEATURES. A BUILDING PERMIT WILL BE REQUIRED PRIOR TO CONSTRUCTION AND IS TO BE APPLIED FOR WITHIN ONE YEAR OF APPROVAL OF THIS PLAN.

THERE ARE ENVIRONMENTAL FEATURES LOCATED ON THE WESTERN SIDE OF THE SITE, OUTSIDE THE LIMITS OF DISTURBANCE OF THE PROPOSED PROJECT. THE ENVIRONMENTAL FEATURES INCLUDE WETLANDS, WETLAND BUFFERS, STREAMS, STREAM BUFFERS, AND A FOREST STAND. SEE ASSOCIATED WETLAND DELINEATION REPORT AND FOREST STAND DELINEATION REPORT PREPARED BY WRIGHT ENVIRONMENTAL & LAND SERVICES, LLC (DATED AUGUST 2021).

THE SITE NATURALLY SLOPES FROM EAST TO WEST. THE SITE HAS BEEN DESIGNED TO MAINTAIN THE NATURAL DRAINAGE PATTERNS, WITH NO CHANGES TO NATURAL DRAINAGE PATTERN.

THE CONCEPTUAL REDUCTION IN IMPERVIOUS AREA THROUGH BETTER SITE DESIGN IS ACHIEVED THROUGH THE ENVIRONMENTAL SITE DESIGN (ESD) FOR THIS PROEJCT TO THE MAXIMUM EXTENT PRACTICABLE (MEP). THE RESULTS OF THE ENVIRONMENTAL SITE DESIGN FOR THIS PROJECT WILL REFLECT WOODS IN GOOD CONDITION. THE ESD CONCEPT INCLUDES THE USE OF NON ROOFTOP DISCONNECTION (N-2). THE EXISTING POND (PER SDP-96-124) IS TO REMAIN AND IN NOT IMPACTED BY THESE IMPROVEMENTS. PROPOSED PRACTICES HAVE BEEN MAXIMIZED TO THE EXTENT PRACTICAL. THE CALCULATED RAINFALL TARGET (PE) FOR THIS PROJECT IS 1.0".

SEDIMENT CONTROL FOR THIS SPECIFIC SITE PLAN WILL BE PROVIDED THROUGH THE USE OF PROPOSED SILT FENCE PERIMETER CONTROLS. SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH CURRENT REQUIREMENTS AND SHALL BE APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

THIS PROJECT SITE IS ASSOCIATED WITH THE FOLLOWING DPZ FILES: WP-95,095, SDP-96-124, SDP-07-099, BA-07-018C, WP-21-047, BA-21-006C, ECP-22-013

SHEET INDEX							
COVER SHEET	C101	1 OF 10					
EXISTING CONDITIONS	C102	2 OF 10					
LAYOUT PLAN	C103	3 OF 10					
ESC PLAN	C104	4 OF 10					
ESC NOTES & DETAILS	C105	5 OF 10					
STORMWATER MANAGEMENT PLAN	C106	6 OF 10					
LANDSCAPE PLAN	C107	7 OF 10					
DETAILS	C108	8 OF 10					
FOREST CONSERVATION PLAN	BY OTHERS	9-10 OF 10					

ADDRESS CHART STREET ADDRESS 3950 TEN OAKS ROAD

PERMIT INFORMATION CHART								
NAME: GLENELG SOLAR			SECTION / AREA: N/A	LOT / PARCEL NO: 201				
L/F: L. 221 F. 618	GRID #: 14	ZONING: RR-DEO	TAX MAP NO.: 22	ELECTION DISTRICT: 5TH	CENSUS TRACT: 6051.04			

STORMWATER MANAGEMENT PRACTICES								
PARCEL NO.	STREET ADDRESS	FACILITY TYPE & MDE NO.	PUBLIC	PRIVATE	MAINTENANCE BY			
201	3950 TEN OAKS ROAD	NON-ROOFTOP DISCONNECT (N-2)		Х	OWNER			

ADE MAP COORDINATES: PA SE 30 \(\text{GRID 1D} \)

PROJECT

GLENELG SOLAR 1.99MWac

3950 TEN OAKS ROAD
GLENELG, MD 21737
HOWARD COUNTY
PARCEL 201
TAX MAP 22 BLOCK 14
5TH ELECTION DISTRICT

SITE OWNER INFORMATION

JACK COOGAN FYOCK JR

DEED L. 2221 F. 618

ZONED RR-DEO

13705 TRIADELPHIA ROAD

GLENELG, MD 21737

REVISION LIST

PROJECT INFORMATION
Project Latitude 39.259388

Project Longitude -76.984413

Utility Name BG&E

Min. Ambient Temperature 40°C

Max. Ambient Temperature 0°C

Meter Number Open

ARRAY 1

ARRAY 1

Module Name Longi 445W

Inverter Sungrow 125

Tilt Angle 25

No. of Modules 6240

DC String Length 26

Community POWER GROUP

COMPANY LOGO

No. of Strings

COMPANY CONTACT INFO

COMPANY NAME: Community Power Ground Company Address: 5636 Connecticut Ave #42729
Washington, DC 20015

COMPANY PHONE: 202-844-6423

COMPANY PHONE: 202-844-6423

EMAIL: mborkowski@communitypowergroup.cor



PROFESSIONAL CERTIFICATE

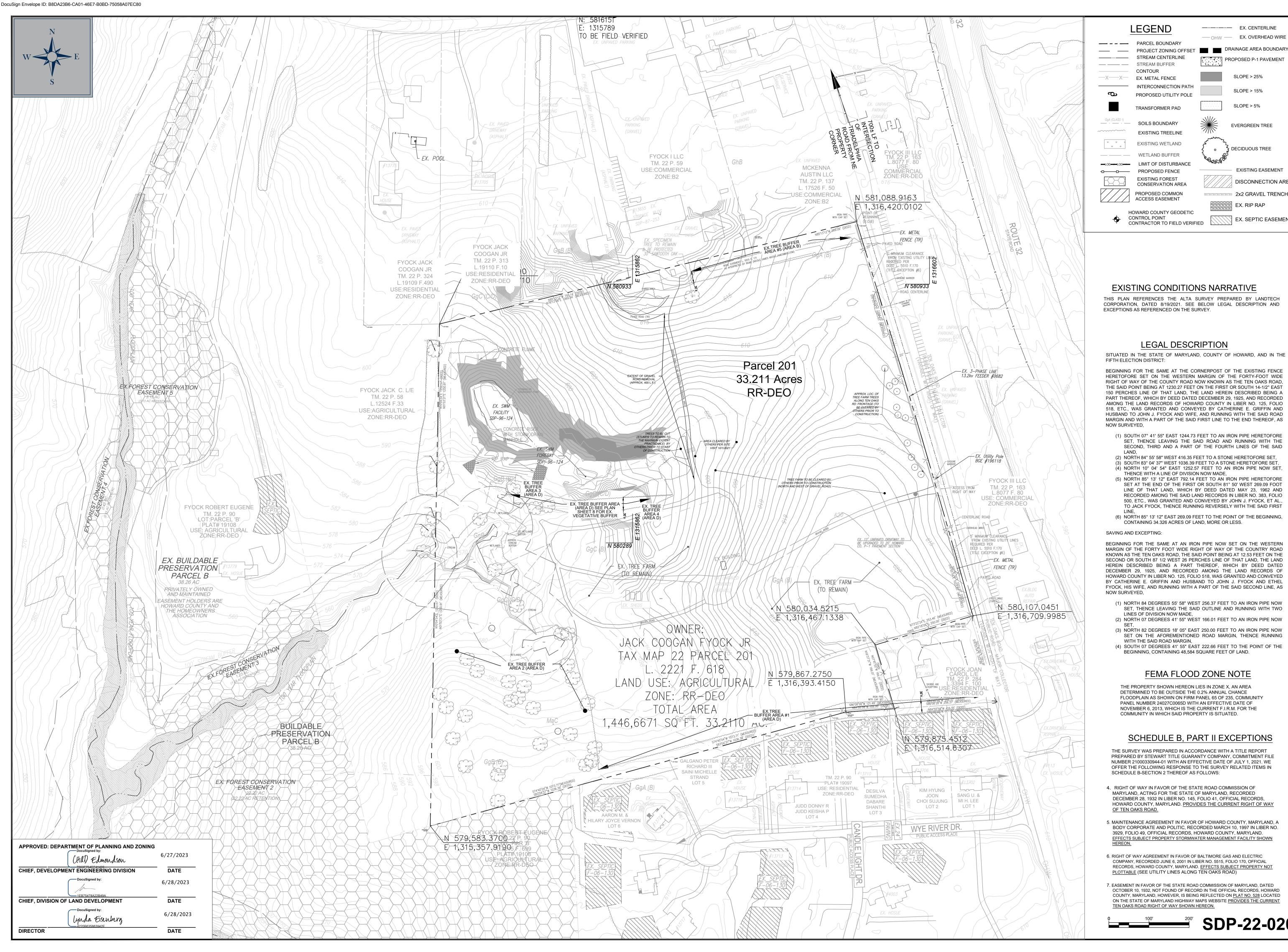
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED
OR APPROVED BY ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF
MARYLAND
LICENSE NO. 58103
EXPIRATION DATE: 08-15-2023

NAME: RACHEL BOOTS ADDRESS: 5636 CONNECTICUT AVE NW #42729 WASHINGTON, DC 20015 PHONE NUMBER: 202-844-6473

COVER

2-22-020 C10°

SDP-22-020 C101 DATE 6/8/2023

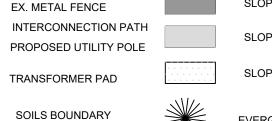


LEGEND —-—- EX. CENTERLINE — - - PARCEL BOUNDARY

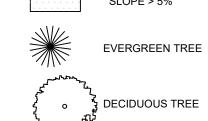
TRANSFORMER PAD

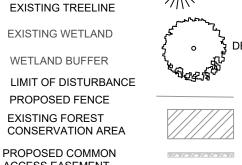
—— PROJECT ZONING OFFSET DRAINAGE AREA BOUNDARY PROPOSED P-1 PAVEMENT

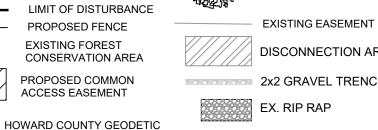
SLOPE > 15% SLOPE > 5%

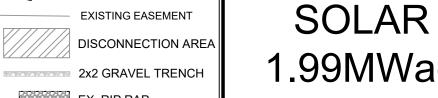












SITE LOCATION INFORMATION EX. SEPTIC EASEMENT

3950 TEN OAKS ROAD GLENELG, MD 21737 HOWARD COUNTY PARCEL 201 TAX MAP 22 BLOCK 14 5TH ELECTION DISTRICT DEED L. 2221 F. 618 ZONED RR-DEO

LOCATION MAP

PROJECT

GLENELG

SITE OWNER INFORMATION

JACK COOGAN FYOCK JR 13705 TRIADELPHIA ROAD GLENELG, MD 21737

REVISION LIST

(1) SOUTH 07° 41' 55" EAST 1244.73 FEET TO AN IRON PIPE HERETOFORE SET, THENCE LEAVING THE SAID ROAD AND RUNNING WITH THE SECOND, THIRD AND A PART OF THE FOURTH LINES OF THE SAID

(2) NORTH 84° 55' 58" WEST 416.35 FEET TO A STONE HERETOFORE SET, (3) SOUTH 83° 04' 37" WEST 1036.39 FEET TO A STONE HERETOFORE SET. 4) NORTH 10° 04' 54" EAST 1252.57 FEET TO AN IRON PIPE NOW SET,

LEGAL DESCRIPTION

THENCE WITH A LINE OF DIVISION NOW MADE, (5) NORTH 85° 13' 12" EAST 792.14 FEET TO AN IRON PIPE HERETOFORE SET AT THE END OF THE FIRST OR SOUTH 81° 50' WEST 269.09 FOOT LINE OF THAT LAND, WHICH BY DEED DATED MAY 23, 1962 AND RECORDED AMONG THE SAID LAND RECORDS IN LIBER NO. 383, FOLIO 500, ETC., WAS GRANTED AND CONVEYED BY JOHN J. FYOCK, ET AL., TO JACK FYOCK, THENCE RUNNING REVERSELY WITH THE SAID FIRST

(6) NORTH 85° 13' 12" EAST 269.09 FEET TO THE POINT OF THE BEGINNING. CONTAINING 34.326 ACRES OF LAND, MORE OR LESS.

SAVING AND EXCEPTING:

BEGINNING FOR THE SAME AT AN IRON PIPE NOW SET ON THE WESTERN MARGIN OF THE FORTY FOOT WIDE RIGHT OF WAY OF THE COUNTRY ROAD KNOWN AS THE TEN OAKS ROAD, THE SAID POINT BEING AT 12.53 FEET ON THE SECOND OR SOUTH 87 1/2 WEST 26 PERCHES LINE OF THAT LAND, THE LAND HEREIN DESCRIBED BEING A PART THEREOF, WHICH BY DEED DATED DECEMBER 29, 1925, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY IN LIBER NO. 125, FOLIO 518, WAS GRANTED AND CONVEYED BY CATHERINE E. GRIFFIN AND HUSBAND TO JOHN J. FYOCK AND ETHEL FYOCK, HIS WIFE, AND RUNNING WITH A PART OF THE SAID SECOND LINE, AS

- (1) NORTH 84 DEGREES 55' 58" WEST 256.37 FEET TO AN IRON PIPE NOW SET, THENCE LEAVING THE SAID OUTLINE AND RUNNING WITH TWO LINES OF DIVISION NOW MADE. (2) NORTH 07 DEGREES 41' 55" WEST 166.01 FEET TO AN IRON PIPE NOW
- (3) NORTH 82 DEGREES 18' 05" EAST 250.00 FEET TO AN IRON PIPE NOW SET ON THE AFOREMENTIONED ROAD MARGIN, THENCE RUNNING WITH THE SAID ROAD MARGIN,
- (4) SOUTH 07 DEGREES 41' 55" EAST 222.66 FEET TO THE POINT OF THE BEGINNING, CONTAINING 48,584 SQUARE FEET OF LAND.

FEMA FLOOD ZONE NOTE

THE PROPERTY SHOWN HEREON LIES IN ZONE X, AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FIRM PANEL 65 OF 235, COMMUNITY PANEL NUMBER 24027C0065D WITH AN EFFECTIVE DATE OF NOVEMBER 6, 2013, WHICH IS THE CURRENT F.I.R.M. FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

SCHEDULE B, PART II EXCEPTIONS

THE SURVEY WAS PREPARED IN ACCORDANCE WITH A TITLE REPORT PREPARED BY STEWART TITLE GUARANTY COMPANY, COMMITMENT FILE NUMBER 21000330944-01 WITH AN EFFECTIVE DATE OF JULY 1, 2021. WE OFFER THE FOLLOWING RESPONSE TO THE SURVEY RELATED ITEMS IN SCHEDULE B-SECTION 2 THEREOF AS FOLLOWS:

- 4. RIGHT OF WAY IN FAVOR OF THE STATE ROAD COMMISSION OF MARYLAND, ACTING FOR THE STATE OF MARYLAND, RECORDED DECEMBER 28, 1932 IN LIBER NO. 145, FOLIO 41, OFFICIAL RECORDS, HOWARD COUNTY, MARYLAND. PROVIDES THE CURRENT RIGHT OF WAY OF TEN OAKS ROAD.
- 5. MAINTENANCE AGREEMENT IN FAVOR OF HOWARD COUNTY, MARYLAND, A BODY CORPORATE AND POLITIC, RECORDED MARCH 10, 1997 IN LIBER NO. 3929, FOLIO 49, OFFICIAL RECORDS, HOWARD COUNTY, MARYLAND. EFFECTS SUBJECT PROPERTY STORMWATER MANAGEMENT FACILITY SHOWN
- 6. RIGHT OF WAY AGREEMENT IN FAVOR OF BALTIMORE GAS AND ELECTRIC COMPANY, RECORDED JUNE 6, 2001 IN LIBER NO. 5515, FOLIO 170, OFFICIAL RECORDS, HOWARD COUNTY, MARYLAND. EFFECTS SUBJECT PROPERTY NOT PLOTTABLE (SEE UTILITY LINES ALONG TEN OAKS ROAD)
- 7. EASEMENT IN FAVOR OF THE STATE ROAD COMMISSION OF MARYLAND, DATED OCTOBER 10, 1932, NOT FOUND OF RECORD IN THE OFFICIAL RECORDS, HOWARD COUNTY, MARYLAND, HOWEVER, IS BEING REFLECTED ON PLAT NO. 528 LOCATED ON THE STATE OF MARYLAND HIGHWAY MAPS WEBSITE PROVIDES THE CURRENT TEN OAKS ROAD RIGHT OF WAY SHOWN HEREON.

SDP-22-020

-76.984413 Project Longitude BG&E Utility Name Min. Ambient Temperature 40°C Max. Ambient Temperature Meter Number ARRAY 1 Module Name Longi 445W Sungrow 125 Inverter Tilt Angle 25 No. of Modules 6240 DC String Length No. of Strings 240 **COMPANY LOGO**

PROJECT INFORMATION

Project Latitude

39.259388

Community **POWER GROUP**

COMPANY CONTACT INFO COMPANY NAME: Community Power Grou COMPANY ADDRESS: 5636 Connecticut Ave Washington, DC 20015

COMPANY PHONE: 202-844-6423 EMAIL: mborkowski@communitypowergroup.com



PROFESSIONAL CERTIFICATE IEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPAREI OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF LICENSE NO. 58103

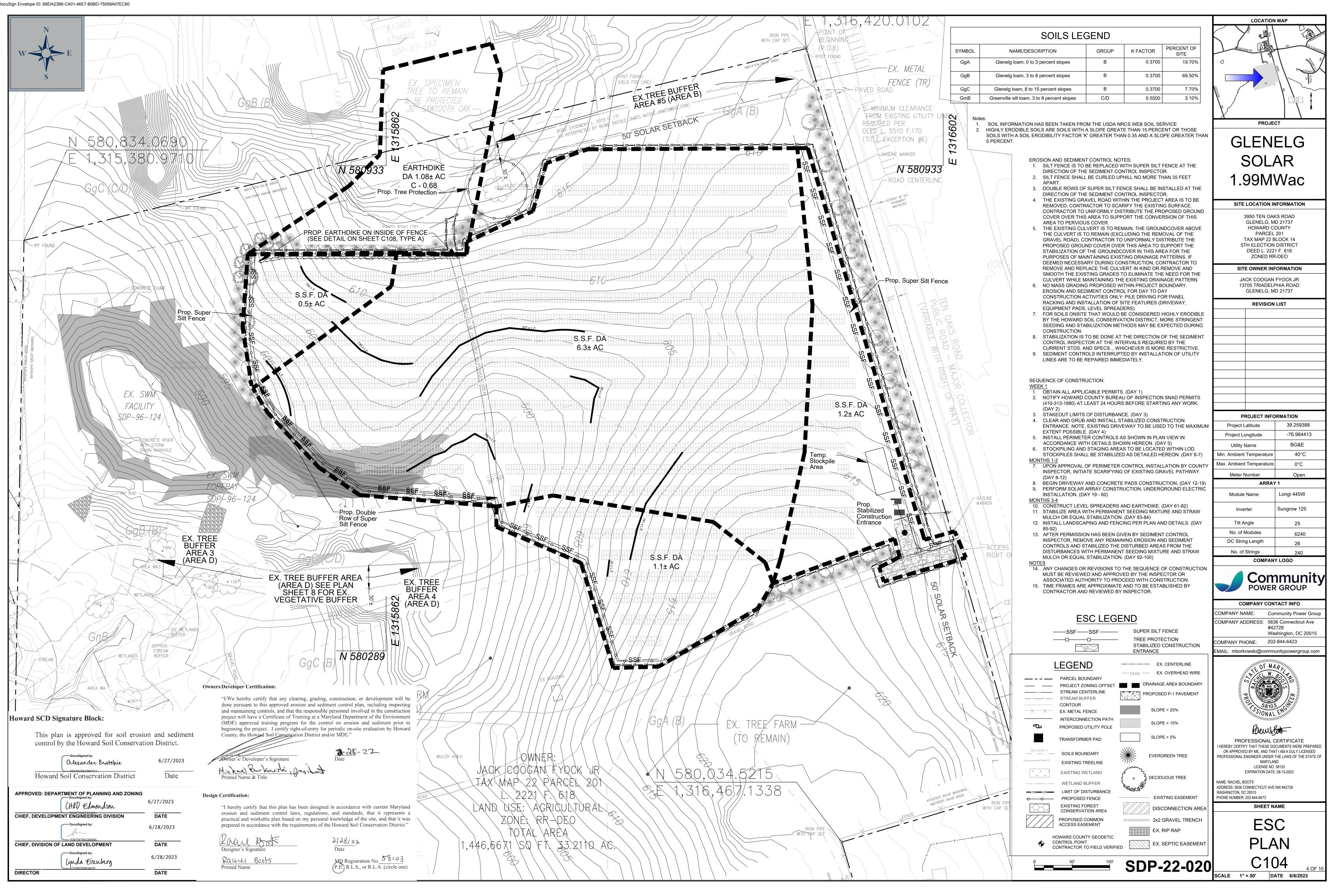
EXPIRATION DATE: 08-15-2023 NAME: RACHEL BOOTS

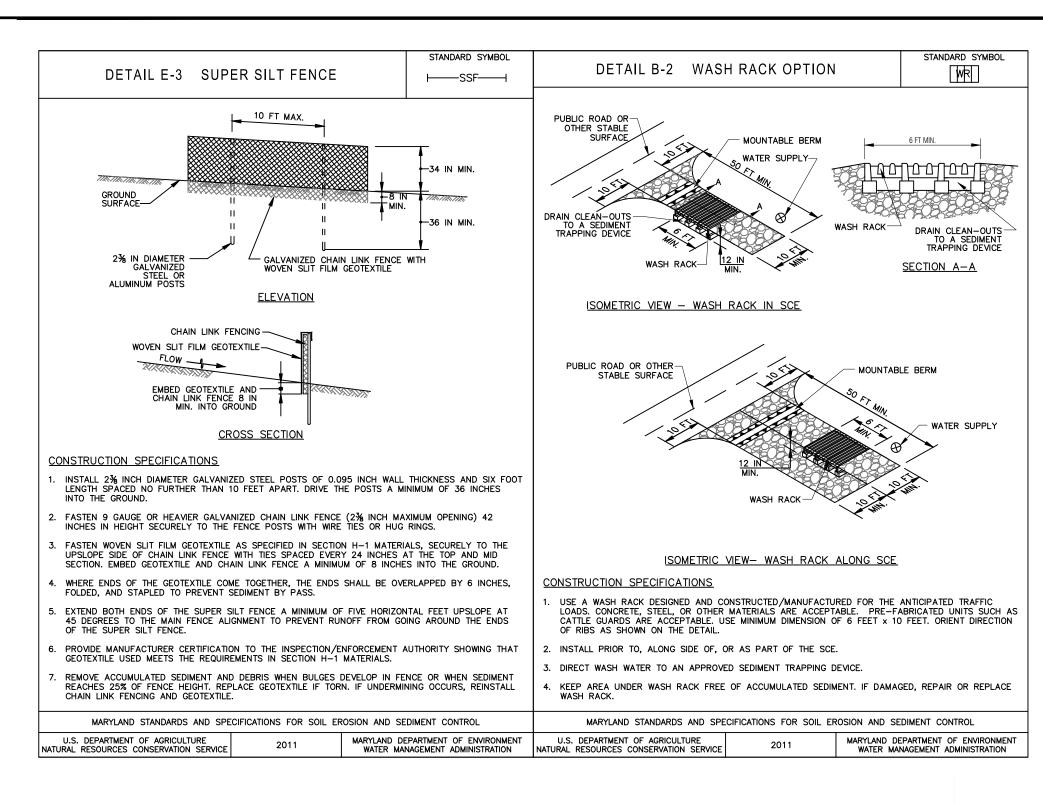
ADDRESS: 5636 CONNECTICUT AVE NW #42729 WASHINGTON, DC 20015 PHONE NUMBER: 202-844-6473 SHEET NAME

EXISTING CONDITIONS

C102

SCALE 1" = 100' DATE 6/8/2023

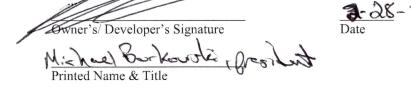




SEDIMENT CONTROL

Owners/Developer Certification:

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment 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 on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."



Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Racher Boots

2/28/22

MD Registration No. 58103 (P.E.) R.L.S., or R.L.A. (circle one)

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- À PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT ÖF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
- PRIOR TO THE START OF EARTH DISTURBANCE, UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
- PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT, PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES
- OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO ENSURE COORDINATION AND TO
- AVOID CONFLICTS WITH THIS PLAN. 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING. 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL

EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING

- (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6). ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN
- SITE ANALYSIS: TOTAL AREA OF SITE: AREA DISTURBED AREA TO BE VEGETATIVELY STABILIZED: OFFSITE WASTE/BORROW AREA LOCATION: TO BE DETERMINED

(1) REFER TO ITEM 11 BELOW

OBTAINED FROM THE CID.

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY; AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE: INSPECTION DATE
 - INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT) NAME AND TITLE OF INSPECTOR WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
 - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES EVIDENCE OF SEDIMENT DISCHARGES IDENTIFICATION OF PLAN DEFICIENCIES DENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
 - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS PHOTOGRAPHS
- MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).
- 9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY WHICHEVER IS SHORTER 10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH

MONITORING/SAMPLING

- CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES 11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SECUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME, WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA
- N THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE CID, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME. 12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT
- 13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO 14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY
- 2' IN ELEVATION. 15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE): USE I AND IP MARCH 1 - JUNE 15 USE III AND IIIP OCTOBER 1 - APRIL 30
- USE IV MARCH 1 MAY 31 16. A COPY OF THIS PLAN. THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

ITEM 11, REGARDING PROJECT DISTURBANCE IS NO LONGER A REQUIREMENT OF THE STATE OF MARYLAND, HOWEVER REMAINS A REQUIREMENT OF HOWARD COUNTY.

> EITHER PERMANENT OR TEMPORARY STABILIZATION IS TO BE APPLIED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR REGARDLESS OF DAYS/DATES IN THE STANDARD SEDIMENT CONTROL NOTES AND/OR SEEDING SPECIFICATIONS.

B-4-5 STANDARDS AND SPECIFICATIONS PERMANENT STABILIZATION

DEFINITION TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

. GENERAL USI

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

- A. SEED MIXTURES
- A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE 8.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE 8.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN. B ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SLICH AS SHORELINES STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE,
- ECTION 342 CRITICAL AREA PLANTING. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3-1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT

A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS,

- AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT, IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND FASTERN SHORE RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CHITIVARS
- PERCENT OF THE TOTAL MIXTURE BY WEIGHT. II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT, CERTIFIED PERENNIAL RYEGRASS CULTIVARS CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH

SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM

THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35

- EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
- IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRAS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 11/2 TO 3 POUNDS PER 1000 SQUARE FEET.

SELECT TUREGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. HE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC

- C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES
- WESTEM MD: MARCH 15 TO JUNE 1, AUGUST ITO OCTOBER 1 (HARDINESS ZONES: 5B, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)
- D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDED, REMOVE STONES AND DEBRIS OVER 11/4 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY. . IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.
- B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).
- A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR. B SOD MUST BE MACHINE OUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH. PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TOM OR UNEVEN ENDS WILL NOT BE C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN
- WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL. E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
- 2. SOD INSTALLATION A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS T PROMOTE MORE UNIFORM GROWTH AND STRENGTH, ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS. C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE . WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT
- 3. SOD MAINTENANCE A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING. B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT. C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED, NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

PERMANENT SEEDING SUMMARY

		ONE (FROM FIGURE E (FROM TABLE B.		6b		FERTILIZER RATE (10-20-20)		LIME RATE
NO	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ 0 ₅	K ₂ 0	
9	COOL SEASON TALL FESCUE & KENTUCKY BLUEGRASS PERENNIAL RYEGRASS OR EQUAL	T.F. 60 LB / AC K.B. 40 LB / AC P.R. 20 LB / AC		1/4-1/2 IN.	(1 LB PER	(2 LB PER		
4	WARM/COOL SEASON GRASS MIX DEERTOUNGE CREEPING RED FESCUE & CANADA WILD RYE	CRF 20 LB / AC	MAR 1 TO MAY 15 <><> MAY 16 TO JUNE 15*					

FOR ALTERNATES, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL - PAGES B.26 - B.32

R-4-2 STANDARDS AND SPECIFICATIONS

- SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS
- THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.
- TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES

WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

A. SOIL PREPARATION

DEFINITION

- 1. TEMPORARY STABILIZATION A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT. SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE
- B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING PERMANENT STABILIZATION A. A SOIL TEST IS REQUIRED FOR ANY FARTH DISTURBANCE OF 5 ACRES OR MORE THE
- MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: I. SOIL PH BETWEEN 6.0 AND 7.0 II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM). III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL
- (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD À MODERATE AMOUNT OF MOISTURE. AN EXCÉPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE. IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
- V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TES E. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS, RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS IKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN
- THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, TRACK SLOPES 3:1 OR FLATTER WITH TRACKED FOLIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.
- I. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCEM HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH. MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION. 2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-
- . TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH. B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH O SUPPORT PLANTS OR FLIRNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. 4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING A. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY
- VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 11/2 INCHES IN DIAMETER. B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS C. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL
- AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL. 6. TOPSOIL APPLICATION A. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING B HIMIEDDMLY DISTRIBUTE TORSOIL IN A 5 TO 9 INCH LAVED AND LICHTLY COMBAC TO A MINIMUM THICKNESS OF 4 INCHES SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL DIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE
- FORMATION OF DEPRESSIONS OR WATER POCKETS C. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
- I. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES. 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER 3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT
- TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE), LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE. 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SHITABLE MEANS 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

B-4-4 STANDARDS AND SPECIFICATIONS FOR

TEMPORARY STABILIZATION DEFINITION TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS. CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE 8.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES. SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE 8.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY 3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED

TEMPORARY SEEDING SUMMARY

AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND

		ONE (FROM FIGURE E (FROM TABLE B.	FERTILIZER RATE	LIME RATE		
NO	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	(10-20-20)	
1	COOL SEASON ANNUAL RYEGRASS OR EQUAL	40 LB / AC	MAR 1 TO MAY 15 AUG 1 TO OCT 15	1/2 IN.	436 LB/AC (10 LB PER 1000 SF)	2 TONS/AC (90 LB PER 1000 SF)
2	WARM SEASON FOXTAIL MILLET OR EQUAL	30 LB / AC	MAY 16 TO JUL 31	1/2 IN.		

FOR ALTERNATES, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL PAGE B.20, TABLE B.1, SHOWN ON SHEET X

B-4-3 STANDARDS AND SPECIFICATIONS

SEEDING AND MULCHING

DEFINITION THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE

CRITERIA A. SEEDING

CONDITIONS WHERE PRACTICE APPLIES

- A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY, ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE. B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEFDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A
- PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER, ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL ISED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE HE INOCULANT LESS FEFECTIVE D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
- A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS. I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE 8.1. PERMANENT SEEDING TABLE 8.3. OR SITE-SPECIFIC SEEDING SUMMARIES. II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT. B DRILL OR CULTIPACKER SEEDING MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL I. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING SEEDRED MUST BE FIRM AFTER PLANTING

II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING

RATE IN EACH DIRECTION. . HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND I. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE. II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING. III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.

I. MULCH MATERIALS (IN ORDER OF PREFERENCE A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, LYE, OAT, OR BARLEY AND REASONABLY

BRIGHT IN COLOR, STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY, NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED. B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE CESSED INTO A UNIFORM FIBROUS PHYSICAL STATE I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY

IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

II. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER. ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS. IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6

PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM

- A. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. B. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING
- MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE. . WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY
- PREFERENCE) DEPENDING LIPON THE SIZE OF THE AREA AND EROSION HAZARD I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BU IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
- III. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER APPLICATION OF HOURD BINDERS NEEDS TO BE HEAVIER AT THE FDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS, USE OF ASPHALT BINDERS S STRICTLY PROHIBITED. IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET

NOTE: SEE FOREST CONSERVATION PLAN FOR TREE PROTECTION DETAIL.

B-4-8 STANDARDS AND SPECIFICATIONS STOCKPILE AREA

A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.

TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE CONDITIONS WHERE PRACTICE APPLIES

STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL

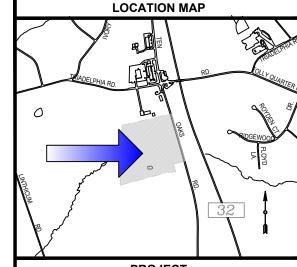
- 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
 THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT
- CONTROL PRACTICE. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
- WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE. 7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL TABILIZATION AND STANDARD R-4-4 TEMPORARY STABILIZATION.

8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE

VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

SDP-22-020



PROJECT

GLENELG SOLAR

SITE LOCATION INFORMATION

3950 TEN OAKS ROAD GLENELG, MD 21737 HOWARD COUNTY PARCEL 201 TAX MAP 22 BLOCK 14 **5TH ELECTION DISTRICT** DEED L. 2221 F. 618 ZONED RR-DEO

SITE OWNER INFORMATION

JACK COOGAN FYOCK JR 13705 TRIADELPHIA ROAD GLENELG, MD 21737

REVISION LIST

PI	ROJECT INFO	RMATION
Droject I	atituda	30 250388

39.259388 Project Latitude -76.984413 Project Longitude BG&E Utility Name Min. Ambient Temperature 40°C Max. Ambient Temperature 0°C Meter Number Open

ARRAY 1 Longi 445W Module Name Sungrow 125 Inverter



Tilt Angle

No. of Modules

DC String Length

No. of Strings

COMPANY CONTACT INFO COMPANY NAME: Community Power Grou COMPANY ADDRESS: 5636 Connecticut Ave

25

6240

240

Washington, DC 20015 COMPANY PHONE: 202-844-6423 EMAIL: mborkowski@communitypowergroup.cor



PROFESSIONAL CERTIFICATE HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPAREI OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF LICENSE NO. 58103

EXPIRATION DATE: 08-15-2023

SHEET NAME

NAME: RACHEL BOOTS ADDRESS: 5636 CONNECTICUT AVE NW #42729 WASHINGTON, DC 20015 PHONE NUMBER: 202-844-6473

ESC NOTES & DETAILS

SCALE N.T.S. DATE 6/8/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION 6/28/2023 CHIEF, DIVISION OF LAND DEVELOPMENT 6/28/2023 lynda Eisenberg DIRECTOR

This plan is approved for soil erosion and sediment

6/27/2023

Date

6/27/2023

control by the Howard Soil Conservation District.

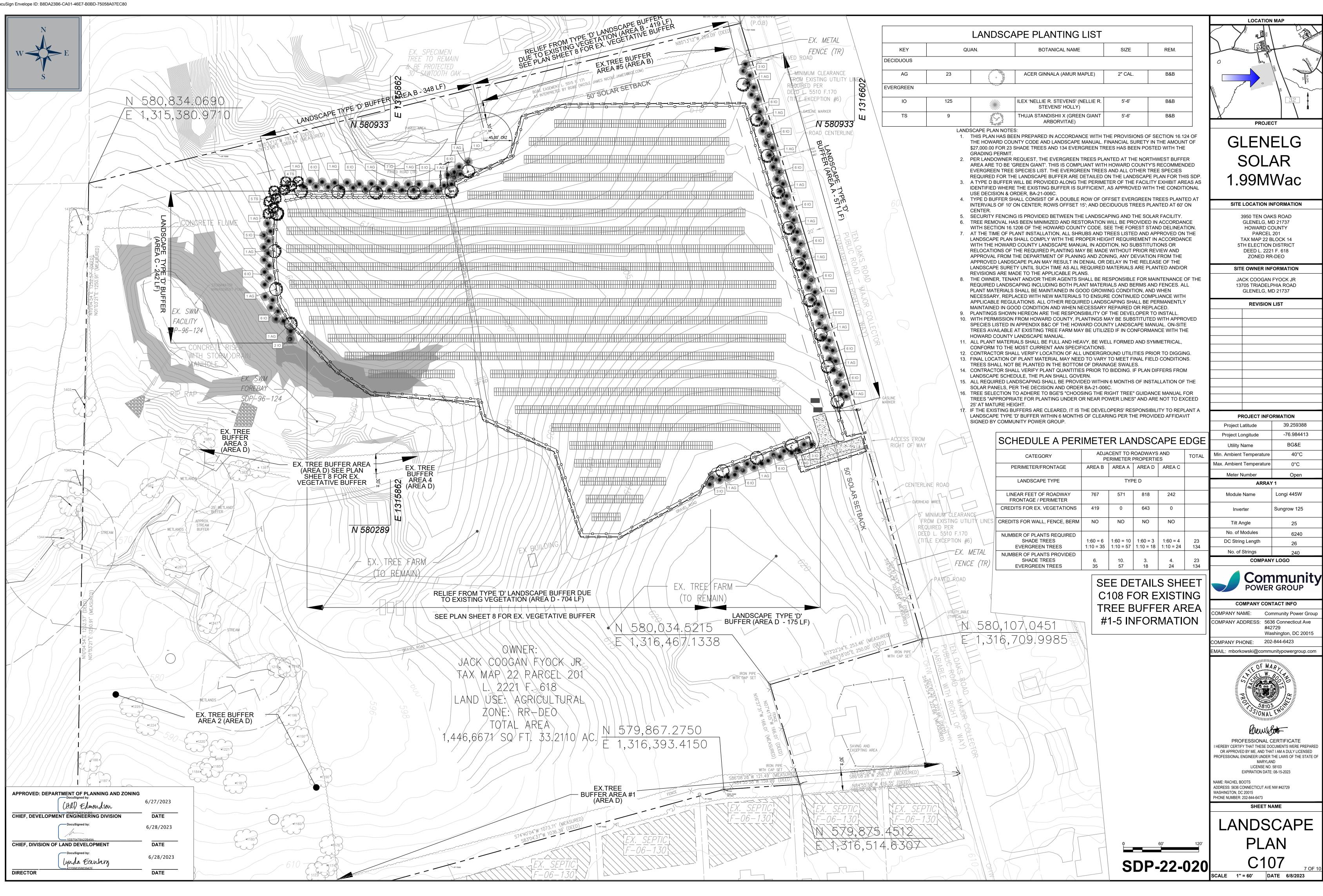
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(Hd) Edmondson

Howard Soil Conservation District

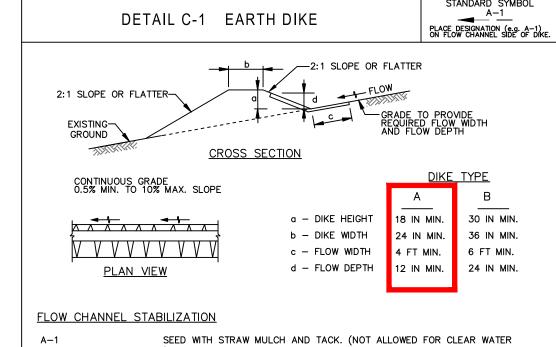
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Howard SCD Signature Block:



NOTE: GEOTECHNICAL RECOMMENDATION BASED ON CBR = 5

SECTION	ROAD AND STREET	CALIFORNIA BEARING RATIO (CBR)	3 TO <5	5 TO <7	≥ 7	3 TO <5	5 TO <7	≥ 7
NUMBER	CLASSIFICATION	PAVEMENT MATERIAL (INCHES)	MIN. SUPE	RPAVE ASI WITH GAB	PHALT MIX		PAVE ASPHA CONSTANT	
	PARKING BAYS: RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE AISLES:	SUPERPAVE ASPHALT MIX FINAL SURFACE 9.5 MM PG 64—22S, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5	1.5
P-1	RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY TRUCKS PER DAY	SUPERPAVE ASPHALT MIX INTERMEDIATE SURFACE (NA)	NA	NA	NA	NA	NA	NA
	I I I I I I I I I I I I I I I I I I I	SUPERPAVE ASPHALT MIX BASE 19.0 MM, PG 64-22S, LEVEL 1 (ESAL)	2.0	2.0	2.0	3.5	3.0	2.5
		GRADED AGGREGATE BASE (GAB)	8.5	7.0	5.0	4.0	4.0	4.0
	PARKING DRIVE AISLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY	SUPERPAVE ASPHALT MIX FINAL SURFACE 9.5 MM, PG 64-22S, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5	1.5
P-2	LOCAL ROADS: ACESS PLACE, ACCESS STREET	SUPERPAVE ASPHALT MIX INTERMEDIATE SURFACE 9.5 MM, PG 64—22S, LEVEL 1 (ESAL)	1.5	1.5	1.5_1	1.5	1.5	1.5/
	CUL-DE-SACS: RESIDENTIAL	SUPERPAVE ASPHALT MIX BASE 19.0 MM, PG 64—22S, LEVEL 1 (ESAL)	2.0	2.0	2.0	3.5	2.0	2.0
		GRADED AGGREGATE BASE (GAB)	8.0	4.0	3.0	4.0	4.0	4.0
	PARKING DRIVE AISLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE	SUPERPAVE ASPHALT MIX FINAL SURFACE 9.5 MM, PG 64—22S, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5	1.5
P-3	THAN 10 HEAVY TRUCKS PER DAY LOCAL ROADS: ACCESS PLACE, ACCESS STREET	SUPERPAVE ASPHALT MIX INTERMEDIATE SURFACE 9.5 MM, PG 64-22S, LEVEL 1 (ESAL)	1.0	1.0	1.0	1.0	1.0	1.0
1-3	CUL-DE-SACS: NON-RESIDENTIAL	SUPERPAVE ASPHALT MIX BASE 19.0 MM, PG 64-22S, LEVEL 1 (ESAL)	3.0	3.0	3.0	4.5	3.0	2.0
	MINOR COLLECTORS: RESIDENTIAL	GRADED AGGREGATE BASE (GAB)	10.0	6.0	3.0	6.0	6.0	6.0
	MINOR COLLECTORS: NON-RESIDENTIAL	SUPERPAVE ASPHALT MIX FINAL SURFACE 12.5 MM, PG 64-22S, LEVEL 2 (LOW ESAL)	2.0	2.0	2.0	2.0	2.0	2.0
D 4	MAJOR COLLECTORS	SUPERPAVE ASPHALT MIX INTERMEDIATE SURFACE 12.5 MM, PG 64-22S, LEVEL 2 (LOW ESAL)	2.0	2.0	2.0	2.0	2.0	2.0
P-4		SUPERPAVE ASPHALT MIX BASE	4.0	4.0	3.0	6.0	5.0	3.0
		19.0 MM, PG 64-22S, LEVEL 2 (LOW ESAL) GRADED AGGREGATE BASE (GAB)	13.0	7.0	4.0	6.0	6.0	6.0
2. SUPERPA' (2.0" MIN 3. GRADED / 4. THE INTE REQUIRED 5. IN LIEU (CUCKS ARE DEFINED AS THOSE WITH SIX (6) WHEELS OR MORE INCLUDING ASPHALT MIX LAYERS SHALL BE PLACED IN APPROPRIATE COMPACTED IN TO 4.0" MAX.), 12.5 MM SURFACE (1.5" MIN. TO 3.0" MAX.), AND 9. AGGREGATE BASE (GAB) TO BE PLACED AND COMPACTED IN 6" MAX. COMPACTED IN SPECTION AND BOND REDUCTION PROBREM TO SUBSTANTIAL COMPLETION INSPECTION AND BOND REDUCTION FOR THE INTERMEDIATE SURFACE COURSE LAYER FOR COMMERCIANGENT OF—WAY WHERE AUXILLARY LANES ARE NOT REQUIRED. THE THICK	D LIFT THICKNESS: 19.0 MM BASE 5 MM SURFACE (1.0" MIN. TO 2.0" MAX.) MPACTED THICKNESS LAYERS. OF PLACEMENT OF BASE COURSE, AND IS N. AL/INDUSTRIAL ENTRANCE APRONS WITHIN THE		SUPERPA	VE ASPHAL			



A-2/B-2 SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.

4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND. CONSTRUCTION SPECIFICATIONS

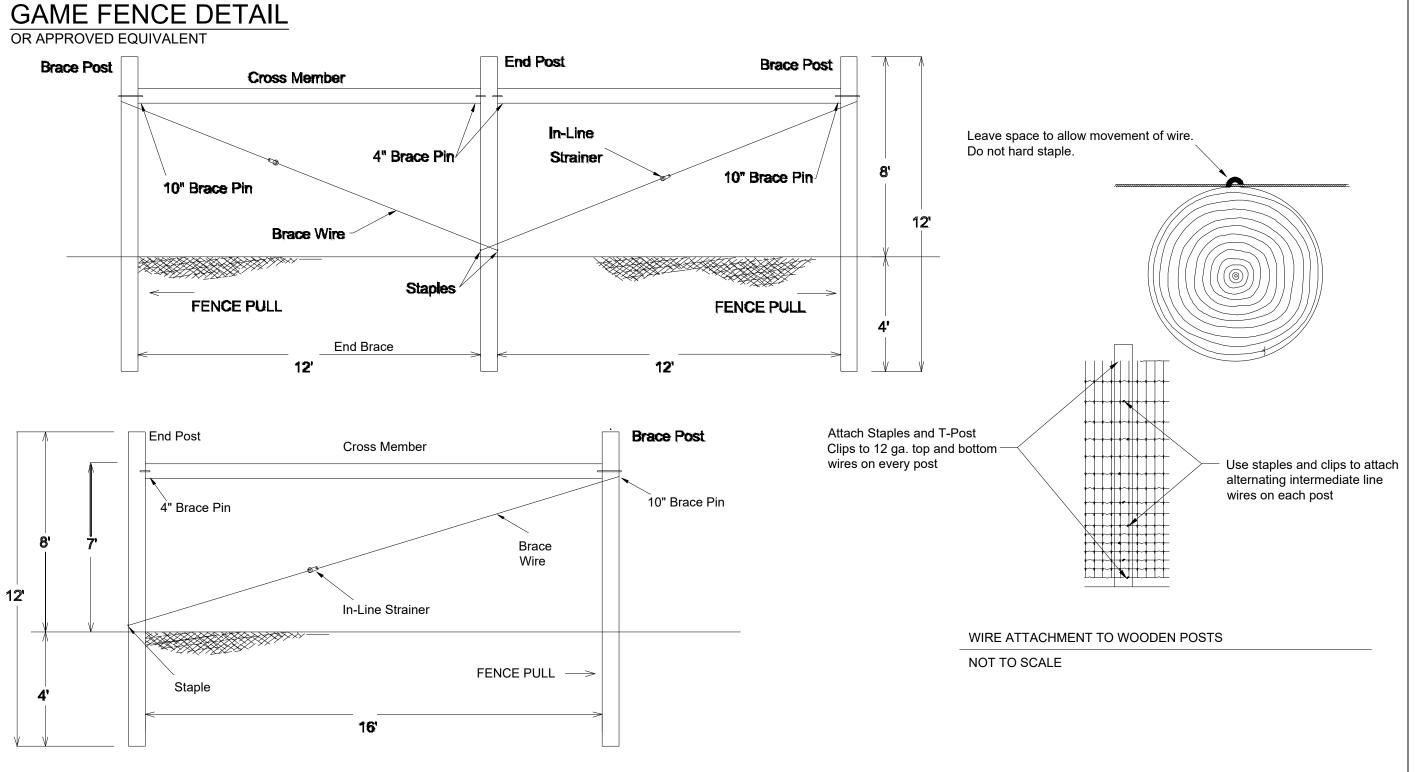
REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.

- . EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
- 4. CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

3. COMPACT FILL.

- PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN. . STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR
- MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH
- UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND	STANDARDS	AND S	PECIFICATIONS	FOR	SOIL	EROSION	AND	SEDIMENT	CONTROL	
U.S. DEPARTMENT	OF AGRICULTI	IRF				MARY	/I AND	DEPARTMEN	T OF FNVIR	ONMEN



EXISTING VEGETATIVE BUFFER

AREAS, AS APPROVED WITH THE

CONDITIONAL USE PLAN

Howard County, Maryland

Department of Public Works

Approved: Ommas E. Sutle

Vegetative Assessment of Buffer Areas

Buffer	Average Width	Average Height	Buffer Composition
1	10'	20-30	One row of evergreen cypress planted along property line. The trees are multi-stem with 4-10" dbh stems typical. Older deciduous forest present on adjacent offsite property. Canopy of offsite forest extends to 70-100' and overhangs the property line
2	NA	70-100'	Forest community dominated by tulip poplar with red maple, black cherry and white oak associates. Canopy trees are 12-20" dbh on average with larger individuals present. Understory development include black and sour cherry, red maple, tree-of-Heaven. Multiflora rose and wineberry in shrub layer. Japanese honeysuckle and Oriental bittersweet common
3	30-50'	60-70'	Deciduous hedge with red maple, black cherry, and tulip poplar common. Canopy trees are 14-18", younger colonizing trees in understory. Vine growth includes Japanese honeysuckle and Oriental bittersweet. Shrub layer includes multiflora rose, wineberry, raspberry
4	20-30'	20-30'	Deciduous hedge with sassafras, Callery pear, mulberry, flowering dogwood and red maple. Trees are 4-8" dbh. Shrub layer includes multiflora rose and black raspberry. Goldenrods and asters growing along edge of the hedgerow.
5	20'	30-40'	2 rows over evergreen trees - primarily cypress in the eastern end of buffer, white pine in west. The cypress trees have 4-8" stems and are typically multi-stem. The white pine are in two rows with older trees, 8-14" dbh, along property boundary and younger trees 4-8"

NOTE: IF THE EXISTING BUFFERS ARE CLEARED, IT IS THE DEVELOPERS' RESPONSIBILITY TO REPLANT A LANDSCAPE TYPE 'D' BUFFER WITHIN 6 MONTHS OF CLEARING PER THE PROVIDED AFFIDAVIT SIGNED BY COMMUNITY POWER GROUP.

along interior row.

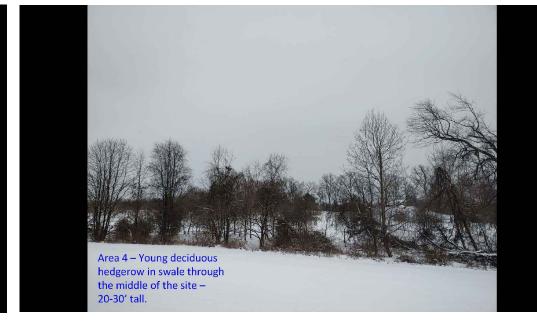
APPROVED: DEPARTMENT OF PLANNING AND ZONING Docusigned by: (HD) Elmon Lson	6/27/2023
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
DocuSigned by: 1EB75478A22B49A	6/28/2023
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
Docusigned by: Lynda Eisenberg 420188358638425	6/28/2023
DIRECTOR	DATE



PAVING SECTIONS

P-1 to P-4

R-2.01











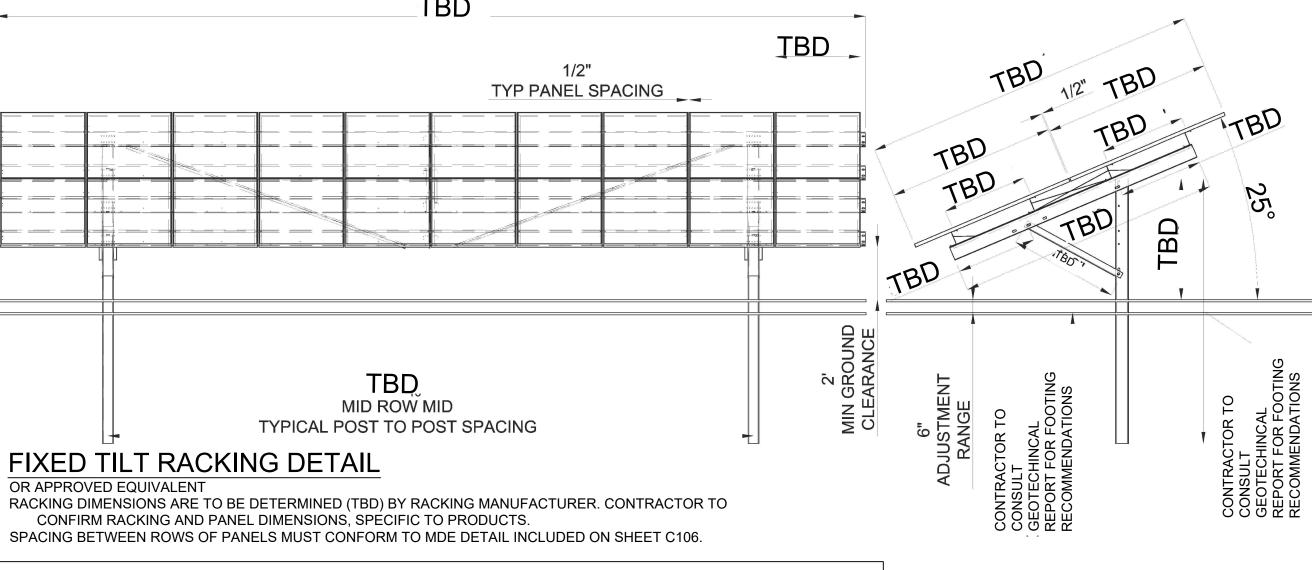


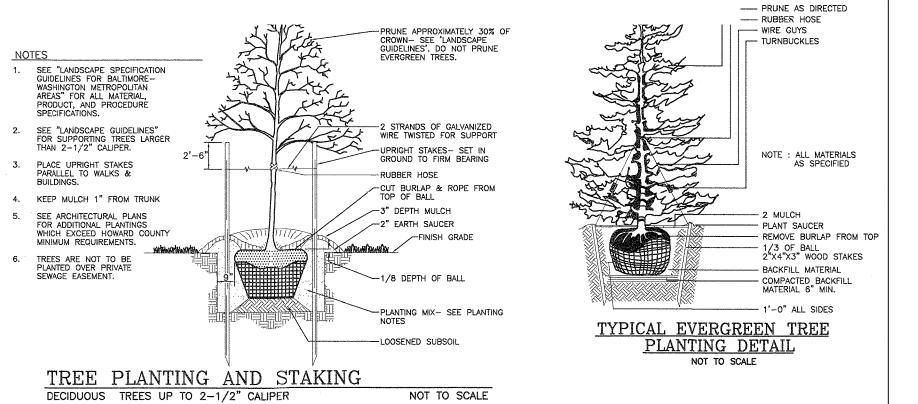
GENERAL NOTES

- ALL WOVEN WIRE FENCE FABRIC SHALL BE CONTINUOUS STAY FIXED KNOT JOINT STYLE FABRIC
- DESIGN NO. 1775-3 AND SHALL MEET OR EXCEED ASTM A 116 FOR NO. 12 1 / 2 GRADE 175.
- TOP AND BOTTOM LINE WIRES SHALL BE 12 GAGE GRADE 175 AND INTERMEDIATE LINE WIRES SHALL BE 12 1 / 2 GAGE GRADE 175. VERTICAL STAY WIRES SHALL BE 12 1 / 2 GAGE GRADE 125. KNOT WIRES SHALL BE 13 GAGE GRADE 60. ALL WIRES SHALL HAVE TYPE Z CLASS 3 COATING.

ATTACH FENCE FABRIC ON INSIDE OF BRACES AND POSTS. FABRIC SHALL BE ATTACHED TO END OF POSTS OF END BRACES AND IN-LINE BRACES BY WRAPPING AND TIEING WIRE WITH A HIGH TENSILE SLIP KNOT.

- VERTICAL STAY WIRES SHOULD BE SPACED EVERY 3" AND HORIZONTAL LINE WIRES SHOULD BE SPACED AS SHOWN IN DETAIL. INSTALL 1775-6 FABRIC SO THAT 3"X3" OPENINGS ARE ON BOTTOM.
- TENSION FABRIC BY PULLING TO CENTER OF PULL USING STRETCHER BARS AND STRETCHER BAR PULLERS. TENSION FABRIC UNTIL TENSION CRIMPS ARE FLATTENED 25 TO 50% FROM ORIGINAL HEIGHT. DO NOT
- SPLICES IN FABRIC SHALL BE MADE WITH 12 1 / 2 16 GAGE LONG CRIMP SLEEVES WITH STATED HOLDING STRENGTH OF 1500 LBS MINIMUM. SLEEVES SHOULD BE CRIMPED USING APPROVED CRIMP TOOL.
- 10. $\,$ FINISHED WIRE SPLICES SHALL NOT HAVE LOOSE WIRE TAILS EXTENDING MORE THAN 1 / 4" IN LENGTH
- 12. ATTACH FABRIC TO WOODEN POSTS USING 1 3 / 4" DOUBLE BARBED STAPLES. STAPLES SHALL BE MADE OF 8 GAGE CLASS 3 GALVANIZED WIRE AND SHALL BE DOUBLE BARBED
- 13. STAPLE 12 GAGE TOP AND BOTTOM WIRES ON EACH POST AS SHOWN IN DETAIL. STAPLES SHALL BE DRIVEN INTO POSTS WITH THE TOP STAPLE LEG ANGLED TO THE RIGHT AS SHOWN. STAGGER STAPLES ACROSS
- WOODEN POSTS AS SHOWN IN DETAIL. STAPLES SHOULD NOT BE HARD DRIVEN AGAINST FENCE WIRE. LEAVE A 1 / 8" TO 1 / 4" GAP BETWEEN STAPLE AND FENCE WIRE TO ALLOW FOR WIRE MOVEMENT. CONTRACTOR TO PROVIDE A 24' WIDE DOUBLE SWING GATE TO MATCH THE FENCE.





LOCATION MAP PROJECT

GLENELG SOLAR

SITE LOCATION INFORMATION 3950 TEN OAKS ROAD GLENELG, MD 21737

HOWARD COUNTY PARCEL 201 TAX MAP 22 BLOCK 14 **5TH ELECTION DISTRICT** DEED L. 2221 F. 618 ZONED RR-DEO

SITE OWNER INFORMATION JACK COOGAN FYOCK JR

13705 TRIADELPHIA ROAD GLENELG, MD 21737

REVISION LIST

PROJECT INFORMATION 39.259388 Project Latitude -76.984413 Project Longitude BG&E **Utility Name** Min. Ambient Temperature 40°C Max. Ambient Temperature

Meter Number Open ARRAY 1 Longi 445W Module Name Sungrow 125 Inverter Tilt Angle 25 No. of Modules 6240 DC String Length

No. of Strings **COMPANY LOGO** Community

POWER GROUP

COMPANY CONTACT INFO COMPANY NAME: Community Power Grou COMPANY ADDRESS: 5636 Connecticut Ave

Washington, DC 20015 OMPANY PHONE: 202-844-6423 EMAIL: mborkowski@communitypowergroup.cor



PROFESSIONAL CERTIFICATE OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE O LICENSE NO. 58103 EXPIRATION DATE: 08-15-2023

NAME: RACHEL BOOTS ADDRESS: 5636 CONNECTICUT AVE NW #42729 WASHINGTON, DC 20015 PHONE NUMBER: 202-844-6473

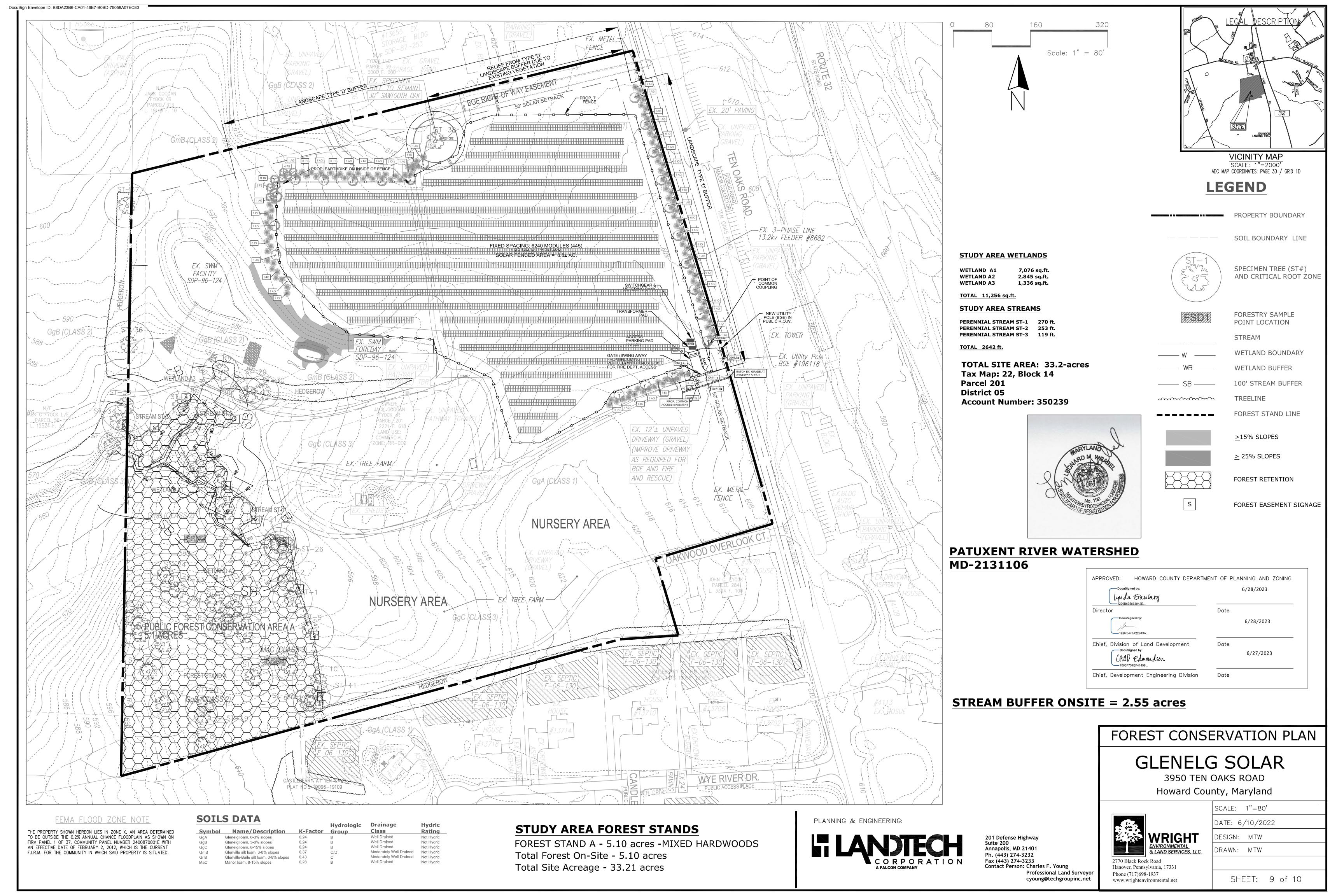
DETAILS

SHEET NAME

SDP-22-020

C108

SCALE N.T.S. DATE 6/8/2023



FOREST PROTECTION DEVICE ONLY.
 RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
 AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
 DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION 6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

FOREST CONSERVATION NOTES:

1. NO PLANTING IS PROPOSED ONSITE, THEREFORE NO FINANCIAL SURETY OR GUARANTEE IS REQUIRED. A TOTAL OF 5.1 ACRES OF EXISTING FOREST SHALL BE RETAINED AND PLACED UNDER A FOREST CONSERVATION EASEMENT (EASEMENT A).

2. ANY FOREST CONSERVATION EASEMENT (FCE) AREA SHOWN HEREON IS SUBJECT TO PROTECTIVE COVENANTS AS CONTAINED IN THE DEED OF FOREST CONSERVATION EASEMENT RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, MD, WHICH RESTRICT THE DISTURBANCE AND USE OF THESE AREAS.

3. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE, FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

4. LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO AREAS OUTSIDE THE LIMIT OF TEMPORARY FENCING OR THE FCE BOUNDARY, WHICHEVER IS GREATER. 5. THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST CONSERVATION EASEMENT, EXCEPT AS PERMITTED BY HOWARD COUNTY DPZ. NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AREA, ETC. SHALL OCCUR WITHIN THE FOREST CONSERVATION EASEMENT.

6. TEMPORARY FENCING SHALL BE USED TO PROTECT FOREST RESOURCES DURING ANY CONSTRUCTION. THE FENCING SHALL BE PLACED ALONG ALL FCE RETENTION BOUNDARIES WHICH OCCUR WITHIN 50 FEET OF THE PROPOSED LIMITS OF DISTURBANCE THAT DOES NOT ALREADY HAVE A SUPER SILT FENCE PROPOSED.

7. PERMANENT SIGNAGE SHALL BE PLACED 50'-100' APART ALONG THE BOUNDARIES OF ALL FOREST CONSERVATION EASEMENTS. THIS SIGNAGE SHALL

8. THERE IS NO 100-YEAR FLOODPLAIN LOCATED ON THE PROPERTY.

RIVER WATERSHED #02131106. 10. THERE ARE NO RARE, THREATENED OR ENDANGERED SPECIES LOCATED ON THIS SITE. THERE IS A PERENNIAL STREAM ALONG THE EASTERN PROPERTY BOUNDARY. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO HISTORIC STRUCTURES LOCATED ON THIS SITE. THERE ARE SPECIMEN TREES LOCATED ON THIS SITE AS SHOWN ON THE PLAN AND SPECIMEN TREE CHART.

9. THE FOREST CONSERVATION WATERSHED FOR THIS PROJECT IS THE PATUXENT

FOREST (CONSERVATION	EΑ	SEMENT CHART				
EASEMENT	AREA		TYPE				
A 5.1 AC.			RETENTION				

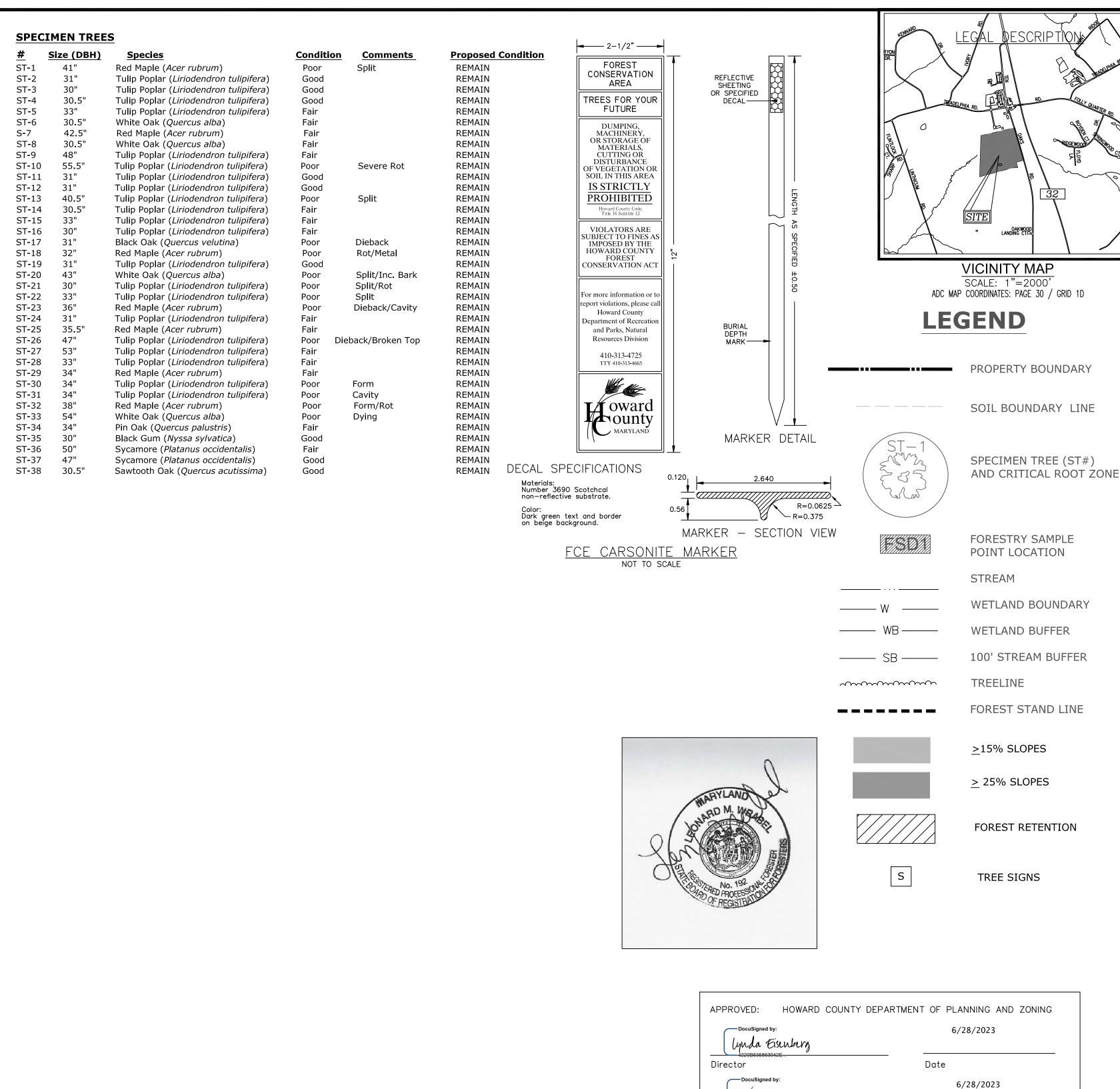
			RKSHEET FOR:		Glenelg Solar					
Net [·] A. B. C. D.		00-year Flood tions (Identify:		nents, SWM Pond	1)	A = 33.2 B = 0.0 C = 1.0 D = 32.2		
Land Use Category Insert the number "1" under the appropriate land use (limit to only one entry)										
	Resid. Rural LD 0	Resid. Rural MD 0	Resid. Suburban 0	Inst./ Linear 0	Retail/Ind./ Office 1	Mixed Use/ PUD 0				
E. F.	Afforestation Reforestation			(Net Tract A (Net Tract A		15% 15%	,	E = 4.8 F = 4.8		
Exis G. H. I.	Existing Forest Cover Existing Forest Cover within the Net Tract Area Area of Forest above Afforestation Threshold Area of Forest above Reforestation Threshold I = 0.3									
Bre a J. K.	ak Even Point Break Even F Forest Cleari		J = 4.9 K = 0.2							
Proposed Forest Clearing L. Total Area of Forest to be Cleared M. Total Area of Forest to be Retained M = 5.1										
Plan N. P Q. R. S. T U	Reforestation Reforestation Reforestation Credit for Re Total Refores Total Affores Total Refores 75% of Total Planting Req	;	N = 0.0 P = 0.0 Q = 0.3 R = 0.0 S = 0.0 T = 0.0 U = 3.8 V = 0.0							
Plan W. X. Y. Z. AA. BB. CC. DD.	Credit for Retention above the Reforestation Threshold Total Reforestation Required BB= 0.0 CC= 0.0									

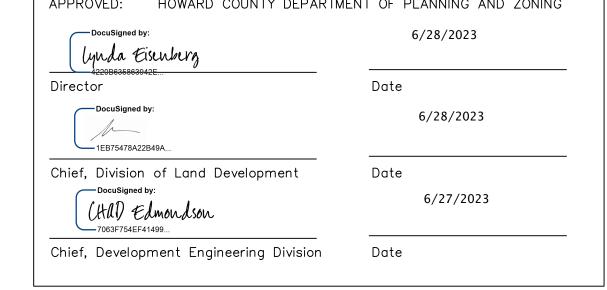
FEMA FLOOD ZONE NOTE

THE PROPERTY SHOWN HEREON LIES IN ZONE X, AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FIRM PANEL 1 OF 37, COMMUNITY PANEL NUMBER 2400870001E WITH AN EFFECTIVE DATE OF FEBRUARY 2, 2012, WHICH IS THE CURRENT F.I.R.M. FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

COTIC DATA

201F	SDAIA				
			Hydrologic	Drainage	Hydric
Symbol	Name/Description	K-Factor	Group	Class	Rating
GgA	Glenelg loam, 0-3% slopes	0.24	В	Well Drained	Not Hydric
GgB	Glenelg loam, 3-8% slopes	0.24	В	Well Drained	Not Hydric
GgC	Glenelg loam, 8-15% slopes	0.24	В	Well Drained	Not Hydric
GmB	Glenville silt loam, 3-8% slopes	0.37	C/D	Moderately Well Drained	Not Hydric
GnB	Glenville-Baile silt loam, 0-8% slopes	0.43	С	Moderately Well Drained	Not Hydric
MaC	Manor loam, 8-15% slopes	0.28	В	Well Drained	Not Hydric





FOREST CONSERVATION PLAN

GLENELG SOLAR

3950 TEN OAKS ROAD

Howard County, Maryland

WRIGHT Hanover, Pennsylvania, 17331 Phone (717)698-1937 www.wrightenvironmental.net



SCALE: DATE: 6/10/2022 DESIGN: MTW DRAWN: MTW SHEET: 10 of 10

STREAM BUFFER ONSITE = 2.55 acres

PLANNING & ENGINEERING:

201 Defense Highway Suite 200 Annapolis, MD 21401 Ph. (443) 274-3232 Fax (443) 274-3233 Contact Person: Charles F. Young **Professional Land Surveyor**

cyoung@techgroupinc.net