

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 10-06-2013 COMPREHENSIVE ZONING PLAN.
- DEED REFERENCE: LIBER 18220, FOLIO 230.
- SUBJECT PROPERTY IS LOCATED ON FREDERICK ROAD, A SCENIC ROAD.
- PREVIOUS HOWARD COUNTY FILE NUMBERS: HO-86-05, F-09-11, F-09-033, ECP-19-039, ECP-21-008, ECP-21-009, SDP-20-049, SDP-21-025, SDP-21-027, WP-21-098 & BA CASE NUMBERS BA-15-026C, BA-19-044C, AND BA-19-045C.
- SUBJECT PROPERTY IS ENCUMBERED BY A HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM EASEMENT, FILE NUMBER HO-86-05, THE HOWARD COUNTY AGRICULTURAL PRESERVATION BOARD REVIEWED THE PROPOSED PROJECT ON AUGUST 26, 2019 AND PROVIDED ADVISORY COMMENTS.
- PRIVATE WELL AND SEWAGE DISPOSAL AREAS ARE USED WITHIN THIS SITE. THERE ARE NO WELLS OR SEWAGE DISPOSAL AREAS WITHIN THE CONDITIONAL USE AREAS.
- THE BOUNDARY SURVEY SHOWN HEREON BASED ON A CURRENT FIELD SURVEY BY GPI IN AUGUST OF 2020.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY GREENMAN-PEDERSON, INC. THE TOPOGRAPHIC SURVEY SHOWN HEREON REPRESENTS MAPPING BY GREENMAN-PEDERSON, INC. (GPI) FROM HOWARD COUNTY PUBLICLY AVAILABLE AERIAL IMAGERY AND LIDAR ACQUIRED ON JUNE 10, 2016. FIELD RUN SURVEY VERIFICATION BY GPI COMPLETED IN JULY OF 2016 AND AUGUST OF 2020.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE: HOWARD COUNTY SOILS GRID S, SUB-GRID 233. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERIES WITHIN THE CONDITIONAL USE AREA.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD RUN SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORDED DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS WAIVERS HAVE BEEN APPROVED OR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING HAS CONSIDERED THEM NECESSARY.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLAN COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NUMBERS 15BA AND 15BB WERE USED FOR THIS PROJECT.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADE OF EXISTING OR PROPOSED CONSTRUCTION SHALL BE IDENTIFIED AND SEWAGE DISPOSAL EASEMENTS, HAVE BEEN LOCATED.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION	410.531.5533
BEG (CONTRACTOR SERVICES)	410.850.4620
BGE (UNDERGROUND DAMAGE CONTROL)	410.787.9068
MISS UTILITY	800.257.7777
COLONIAL PIPELINE COMPANY	410.795.1350
HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES	410.313.4900
HOWARD COUNTY HEALTH DEPARTMENT	410.313.2640
AT&T	800.252.1133
VERIZON	800.743.0334/10.224.9210

- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/ BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE PROJECT IS IN CONFORMANCE WITH THE CURRENT HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- ALL HDPE PIPE SPECIFICATIONS AND INSTALLATIONS SHALL MEET AASHTO M-252 TYPE S, M-294 TYPE S AND ASTM D2321, RESPECTIVELY.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD).
- NOTE THAT ALL GATES ARE TO HAVE A KNOX LOCK PROVIDED FOR FIRE DEPARTMENT ACCESS.
- MARKING WILL BE PROVIDED TO EMERGENCY RESPONDERS FOR APPROXIMATE WARNING AND GUIDANCE WITH RESPECT TO WORKING AROUND AND ISOLATING THE SOLAR ELECTRIC SYSTEM. THERE SHALL BE A SIGN INDICATING ELECTRICAL HAZARDS PRESENT, AND EMERGENCY CONTACT INFORMATION FOR THE SITE REPRESENTATIVES. A PLAN SIGNAGE AND CLEARLY SHOWN MEANS OF ACCESS, FIRE DEPARTMENT TURN AROUND AREAS, MAIN AND SECONDARY SHUTOFFS AS WELL AS GATE LOCATIONS SHALL BE PROVIDED IN PDF FORMAT TO THE OFFICE OF THE FIRE MARSHALL.
- A VEGETATION MANAGEMENT PLAN SHALL BE PROVIDED AND KEPT ON FILE WITH THE OFFICE OF THE FIRE MARSHALL.
- TRAINING SHALL BE PROVIDED BY THE DEVELOPER/SOLAR FARM MANAGER TO THE FIRE DEPARTMENT.
- STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET BY TWO MICRO-BIORETENTION FACILITIES (M-6), ONE BIOTENTATION FACILITY (F-6), NON-ROOFTOP DISCONNECTS (N-2), AND SHEET FLOW TO CONSERVATION AREA (N-3).
- A DESIGN MANUAL WAIVER HAS BEEN APPROVED, WAIVING THE REQUIREMENT OF A BIKE LANE ALONG THE PROPERTY FRONTAGE WITH MARYLAND ROUTE-144.
- PURSUANT TO SECTION 16.1216, THE DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING, DIRECTOR OF THE DEPARTMENT OF RECREATION AND PARKS AND THE ADMINISTRATOR OF THE OFFICE OF COMMUNITY SUSTAINABILITY, CONSIDERED AND APPROVED THE REQUEST FOR VARIANCE WITH RESPECT TO SECTION 16.1205(a)(3) OF THE FOREST CONSERVATION REGULATIONS. THE PURPOSE IS TO ALLOW THE REMOVAL OF ONE (1) SPECIMEN TREE. THE DIRECTORS DELIBERATED AND APPROVED THE APPLICATION IN A MEETING ON JUNE 17, 2021. APPROVAL OF THE ALTERNATIVE COMPLIANCE OF SECTION 16.1205(a)(3) IS SUBJECT TO THE FOLLOWING CONDITIONS:

- THE SPECIMEN TREE REMOVAL IS SUBJECT ONLY TO THE REQUESTED TREE, SPECIMEN TREE #3 (ST-3).
- ANOTHER ALTERNATIVE COMPLIANCE REQUEST MUST BE SUBMITTED TO PROPOSE THE REMOVAL OF ANY ADDITIONAL SPECIMEN TREES ASSOCIATED WITH THE PROJECT. PROVIDE TWO (2) REPLACEMENT TREES A DBH OF AT LEAST 3" ON SITE IN ADDITION TO THE REQUIRED LANDSCAPING IN PLACE OF THE REMOVED TREE AS MITIGATION.
- THE ALTERNATIVE COMPLIANCE FILE NUMBER, REQUESTED SECTIONS, DECISION DATE AND CONDITIONS OF APPROVAL SHALL BE INDICATED ON THE PLAT AS A GENERAL NOTE.

- A WAIVER HAS BEEN APPROVED UNDER THIS SDP, MAKING THE PROJECT EXEMPT FROM FRONTAGE ROAD IMPROVEMENTS ALONG MARYLAND ROUTE-144.
- THIS PROPERTY WAS APPROVED ON MAY 17, 2021 FOR A WAIVER TO HOWARD COUNTY DESIGN MANUAL, VOLUME III, SECTION 2.08, THAT REQUIRES "IN TO BE DESIGNED TO PASS THE 100-YEAR STORM WITH NO MORE THAN 1 FOOT OF WATER OVER THE DRIVEWAY. THE CONDITIONS ARE AS FOLLOWS:

- THESE CULVERTS AND DRIVEWAYS ARE PRIVATELY OWNED AND MAINTAINED.
- THERE IS NO RESIDENTIAL USE BUT SOLAR MAINTENANCE AND FARMING INFREQUENT USE OF THE DRIVEWAYS.
- THE OVERTOPPING IS 2.33 FEET AT STUDY POINT #1 AND 1.24 FEET AT STUDY POINT #2.
- DPW, DPZDLD, FIRE & RESCUE APPROVED THE DESIGN MANUAL WAIVER.

- THIS PROPERTY IS SUBJECT TO THE HOWARD COUNTY CASE BA-19-045C TO ALLOW THE CONDITIONAL USE FOR A COMMERCIAL SOLAR FACILITY AND WAS APPROVED ON DECEMBER 22, 2020 WITH THE FOLLOWING CONDITIONS:

- THE COMMERCIAL SOLAR FACILITY CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL ONLY TO THE EXTENT AS SUBMITTED AND AS SHOWN ON THE CONDITIONAL USE PLAN DATED APRIL 6, 2020 AND AMENDED AS OF NOVEMBER 23, 2020 AND NOT TO ANY OTHER ACTIVITIES USE, OR STRUCTURES ON THE PROPERTY.
- PETITIONER SHALL COMPLY WITH ALL CONDITIONAL USE STANDARDS.
- THE SITE DEVELOPMENT PLAN, OR ITS EQUIVALENT, SHALL INCLUDE A NOTE CONTAINING ALL CONDITIONS OF APPROVAL:
- PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
- THE SYSTEMS INSTALLED ON THE PETITIONER ON THE PROPERTY SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND PROVISIONS.
- ANY COMMERCIAL SOLAR FACILITY THAT IS NO LONGER USED SHALL BE REMOVED BY THE PROPERTY OWNER FROM THE SITE WITHIN ONE YEAR OF THE DATE THAT THE USE CEASES.
- THE PREMISES SHALL BE MAINTAINED AT ALL TIMES IN A CLEAN AND ORDERLY CONDITION, INCLUDING THE CARE OR REPLACEMENT OF PLANT MATERIALS REQUIRED IN THE LANDSCAPING PLAN. THE RESPONSIBILITY FOR COMPLIANCE WITH THIS PROVISION SHALL BE WITH ALL PARTIES HAVING A LEASE OR OWNERSHIP INTEREST IN THE COMMERCIAL SOLAR FACILITY.
- THE PETITIONER SHALL REGISTER ALL SOLAR COLLECTORS WITH THE DEPARTMENT OF FIRE AND RESCUE SERVICES. THE REGISTRATION SHALL INCLUDE A MAP OF THE SOLAR FACILITY NOTING THE RESCUE SERVICES. THE REGISTRATION SHALL INCLUDE A MAP OF THE SOLAR FACILITY NOTING THE LOCATION OF THE SOLAR COLLECTORS AND THE PANEL DISCONNECT.
- TREE REMOVAL SHALL BE MINIMIZED, AND REFORESTATION SHALL BE DONE IN ACCORDANCE WITH SECTION 16.1026 OF THE HOWARD COUNTY CODE.
- THE PETITIONER SHALL COMPLY WITH HOWARD COUNTY CODE, SECTION 15.512, WHICH REQUIRES A CURRENT SOIL CONSERVATION AND WATER QUALITY PLAN FOR AN AGRICULTURAL PRESERVATION EASEMENT PROPERTY.
- ALL REQUIRED LANDSCAPING SHALL BE PROVIDED WITHIN SIX (6) MONTHS OF INSTALLATION OF THE SOLAR PANELS.

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT, \$15,300.00 FOR THE REQUIRED FIFTY-ONE (51) LANDSCAPING SHADE TREES, AND \$71,450.00 FOR THE THREE HUNDRED AND EIGHTY-THREE (383) ORNAMENTAL AND EVERGREEN TREES. FOR A TOTAL OF \$72,750.00.

- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1206 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AND THE FOREST CONSERVATION MANUAL BY THE ON-SITE RETENTION AND AFFORESTATION AND REFORESTATION OF 6.4 ACRES OF FOREST. FINANCIAL SURETY FOR THE 6.2 ACRES (270,072 SF) TO BE IN AFFORESTATION/REFORESTATION WILL BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT AT \$0.50 PER SQUARE FOOT, OR \$335,036.00.

- THE FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY SILL ENGINEERING GROUP, LLC, DATED MAY OF 2021, AND IS APPROVED UNDER ECP-21-008.
- THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED AUGUST OF 2020, AND IS APPROVED UNDER ECP-21-008.

- A TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARKS GROUP, INC., DATED MAY OF 2021, AND AN APFO LETTER IS ON FILE WITH HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
- THE HEALTH DEPARTMENT HAS APPROVED A WAIVER ALLOWING THE SOLAR DEVELOPMENT SHOWN ON THIS PLAN TO PROCEED WITHOUT ESTABLISHING SEWAGE DISPOSAL AREAS FOR THE STRUCTURES ON THE PROPERTY THAT GENERATE WASTEWATER. ANY FUTURE BUILDING PERMITS OR DEVELOPMENT PLANS WILL REQUIRE PER TESTING TO ESTABLISH SEWAGE DISPOSAL AREAS FOR EACH STRUCTURE THAT GENERATES WASTEWATER AND WILL REQUIRE THE SPRING WATER SYSTEM TO BE ABANDONED AND WELLS DRILLED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 5/12/2022
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 DATE 5/12/2022
 CHIEF DIVISION OF LAND DEVELOPMENT
 DATE 5/20/2022
 DIRECTOR
 DATE

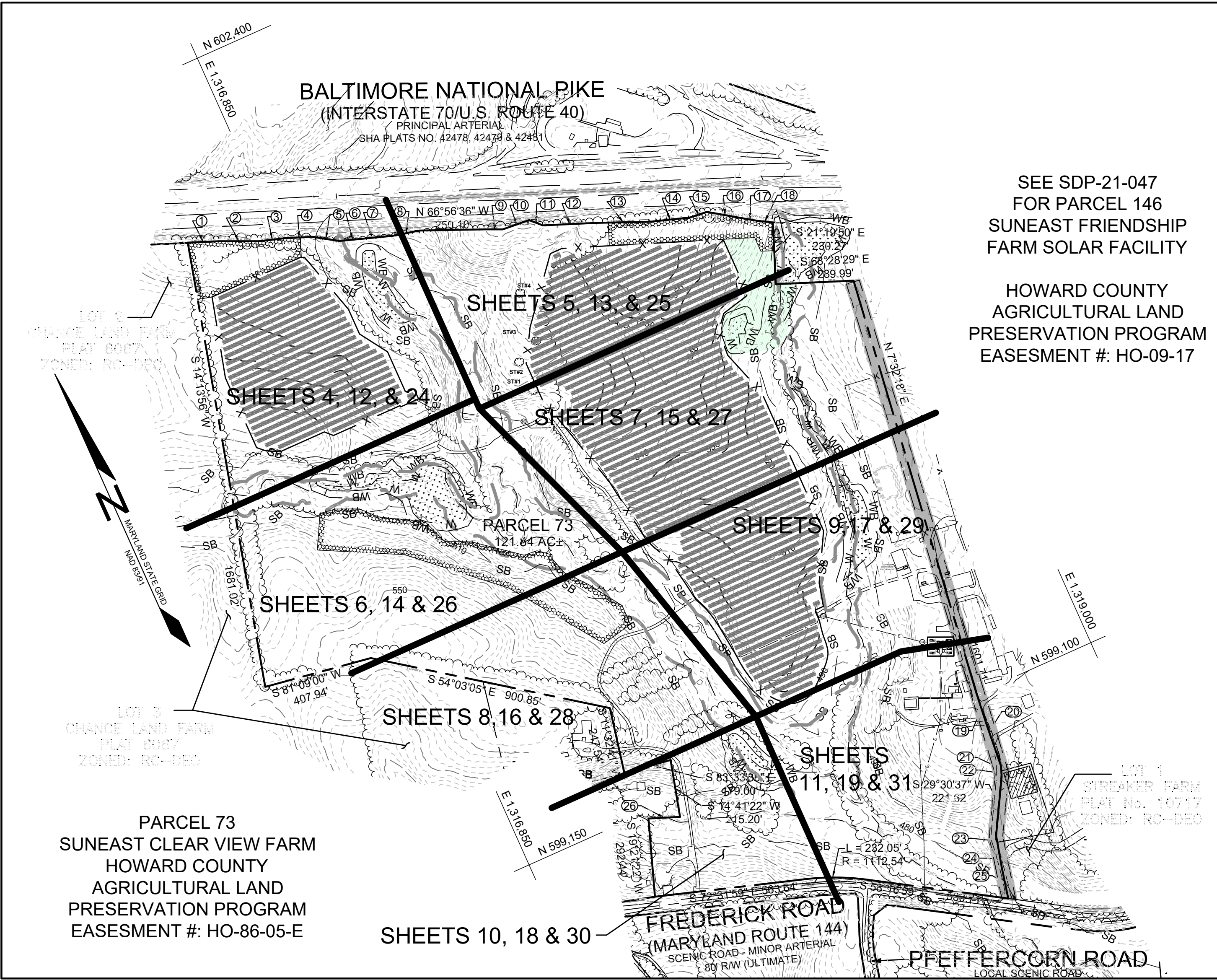
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 Declared by: Michael J. Davis
 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 NO.

SITE DEVELOPMENT PLAN

SUNEAST CLEAR VIEW FARM

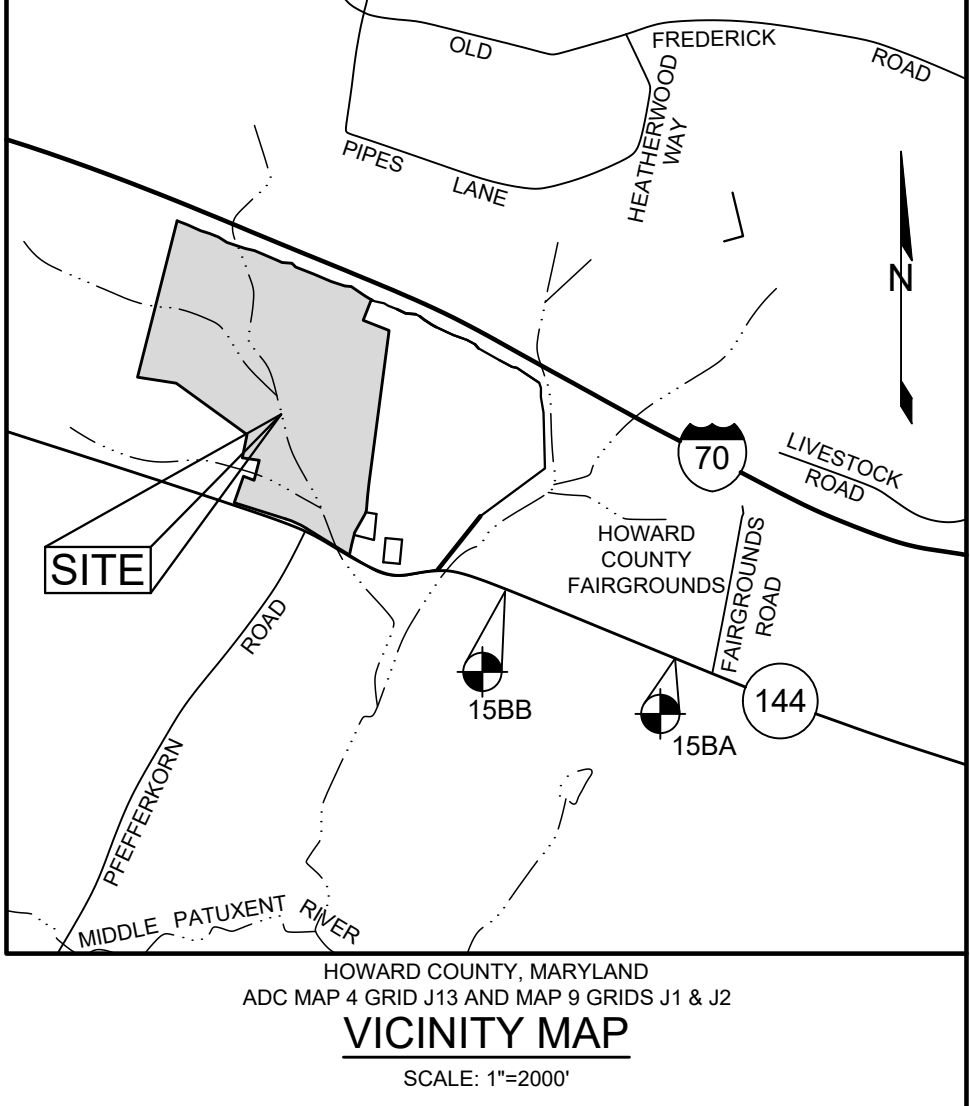
SOLAR FACILITY, COMMERCIAL

HOWARD COUNTY, MARYLAND
 TAX MAP 9 PARCEL 73



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING SPECIMEN TREE
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING STREAM
- EXISTING STREAM BUFFER
- EXISTING 100-YEAR FLOODPLAIN
- PROPOSED SOLAR ARRAY AREA
- PROPOSED LEVEL SPREADER
- PROPOSED 7' FENCE (NO BARBED WIRE)
- EXISTING 50' PRIVATE COMMON USE RIGHT-OF-WAY
- MAINTENANCE AGREEMENT
- LIBER 2700 FOLIO 429



BEARING & DISTANCE CHART

TAG	BEARING	DISTANCE
1	N 68°31'50" W	115.67'
2	N 65°51'31" W	150.16'
3	N 72°32'05" W	100.24'
4	N 68°31'50" W	98.99'
5	N 57°13'14" W	101.98'
6	N 71°23'35" W	101.12'
7	N 77°03'41" W	101.12'
8	N 77°03'41" W	100.12'
9	N 65°41'40" W	60.63'
10	N 85°13'47" W	104.40'
11	N 44°46'52" W	54.63'
12	N 68°31'50" W	200.00'
13	N 67°05'54" W	200.06'
14	N 71°57'51" W	150.27'
15	N 82°22'32" W	65.92'
16	N 55°40'45" W	138.50'
17	N 56°16'53" W	50.41'
18	N 59°33'00" W	60.33'
19	N 6°7'43" E	129.98'
20	N 19°28'32" E	19.02'
21	N 21°3'11" E	21.14'
22	N 13°12'9" E	24.84'
23	N 19°28'32" E	19.03'
24	N 14°9'43" E	98.69'
25	N 12°13'45" E	114.89'
26	N 68°48'38" W	118.00'

BENCHMARKS

NUMBER	NORTHING	EASTING	ELEVATION
15BA	597,228.1254	1,321,719.2760	590.296'
15BB	597,925.9029	1,319,949.8262	527.586'

SHEET INDEX

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3	SOILS MAP
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5	GRADING PLAN
6	GRADING PLAN
7	GRADING PLAN
8	GRADING PLAN
9	GRADING PLAN
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12	SEDIMENT AND EROSION CONTROL PLAN
13	SEDIMENT AND EROSION CONTROL PLAN
14	SEDIMENT AND EROSION CONTROL PLAN
15	SEDIMENT AND EROSION CONTROL PLAN
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38	FOREST CONSERVATION PLAN

STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

BELOW IS A LIST TO DESCRIBE THE STORMWATER MANAGEMENT REQUIREMENTS AND ACHIEVEMENTS FOR THE SITE PER THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II, AS AMENDED BY THE STORMWATER MANAGEMENT ACT OF 2007.

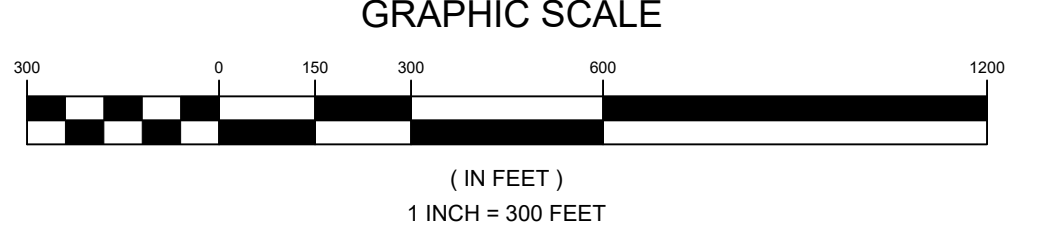
- ENVIRONMENTALLY SENSITIVE AREAS HAVE BEEN AVOIDED. THERE IS AN EXISTING STREAM CROSSING SHOWN ON SHEET 6 WHICH WILL BE UTILIZED FOR ACCESS TO THE SOLAR ARRAY AREAS.
- TO THE GREATEST EXTENT PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
- THE DESIGN INCORPORATES THE LEAST IMPERVIOUS AREA POSSIBLE.
- STABILIZED CONSTRUCTION ENTRANCES, SILT FENCES AND SUPER SILT FENCES ARE USED AS SEDIMENT AND EROSION CONTROL DEVICES.
- ESD PLANNING TECHNIQUES AND PRACTICES HAVE BEEN IMPLEMENTED, TO THE MAXIMUM EXTENT PRACTICABLE, THROUGH USE OF NON-ROOFTOP DISCONNECTS (N-2), SHEET FLOW TO CONSERVATION AREAS (N-3), AND BIOTRETENTION FACILITIES (F-6).
- AN ALTERNATIVE COMPLIANCE, WP-21-098, HAS BEEN APPROVED FOR THE REMOVAL OF ONE (1) SPECIMEN TREE (ST-3).
- THE PROPOSED SOLAR AREAS WILL UTILIZE GRASSES, MEADOWS, AND POLLINATOR HABITATS FOR MOST OF THE COVER, WITH RUNOFF FLOWING OFF OF THE SOLAR PANELS INTO THE GRASSES.
- THE TEE TURNAROUNDS AND EQUIPMENT PADS WILL BE TREATED VIA NON-ROOF DISCONNECTS.

LOCATION MAP

SCALE: 1"=300'

SITE ANALYSIS DATA SHEET

ENVIRONMENTAL AREA	SIZE OR USE (1)
TOTAL PROJECT AREA	119.88 ACRES ±
LIMIT OF DISTURBANCE	37.26 ACRES ±
GREEN OPEN AREA (LAWN)	39.81 ACRES ±
IMPERVIOUS AREA	0.35 ACRES ±
PROPOSED SITE USES	SOLAR FACILITY
WETLANDS	121.999 SQ FT ± *
WETLAND BUFFERS	136.378 SQ FT ± *
FLOODPLAINS	681.174 SQ FT ± *
FLOODPLAIN BUFFERS	430.830 SQ FT ± *
EXISTING FOREST	30,789 SQ FT ±
SLOPES GREATER THAN 15%	144.379 SQ FT ±
HIGHLY ERODIBLE SOILS (3)	3.31 ACRES ±



OWNER

CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER

KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 609-955-4260
 WALTER.SERAFYN@CRENEW.COM

STORMWATER MANAGEMENT PRACTICES

PARCEL	ADDRESS	BIOTRETENTION FACILITY F-6 (NUMBER)
73	13370 ROUTE 144	1
73	13370 ROUTE 144	2
73	13370 ROUTE 144	3

- NOTES:
- AREAS LISTED WITH AN ASTERISK ARE NOT WITHIN THE DEVELOPMENT AREA.
 - SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE: NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY.
 - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT

STORMWATER MANAGEMENT INFORMATION

PARCEL NUMBER	FACILITY NAME & NUMBER	PRACTICE TYPE	PUBLIC	PRIVATE	PRIVATELY MAINTAINED
73	BIOTRETENTION FACILITY #1	F-6	-	X	YES
73	BIOTRETENTION FACILITY #2	F-6	-	X	YES
73	BIOTRETENTION FACILITY #3	F-6	-	X	YES

REVISIONS

NO.	DESCRIPTION	DATE

COVER SHEET
 SUNEAST CLEAR VIEW FARM SOLAR FACILITY

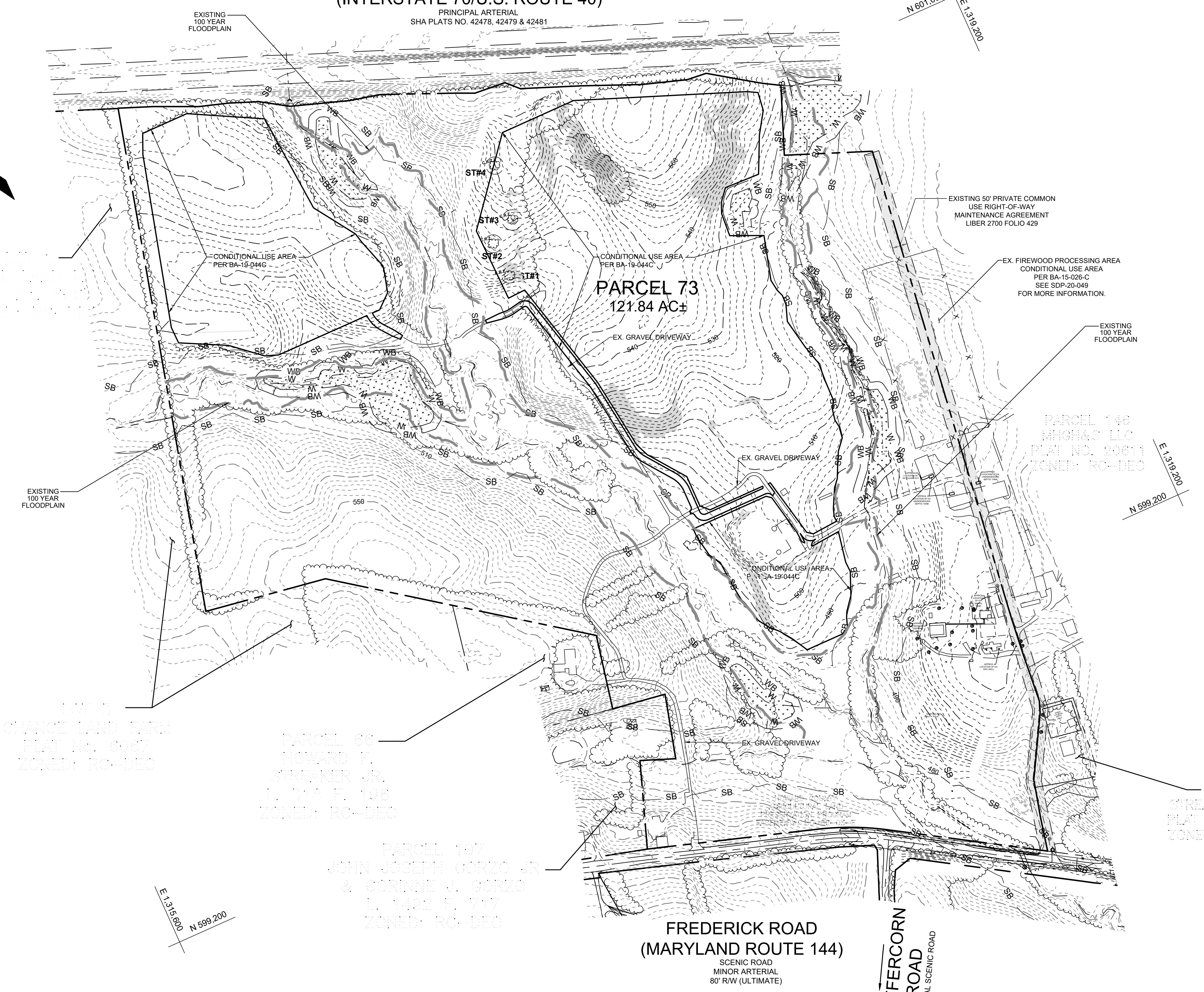
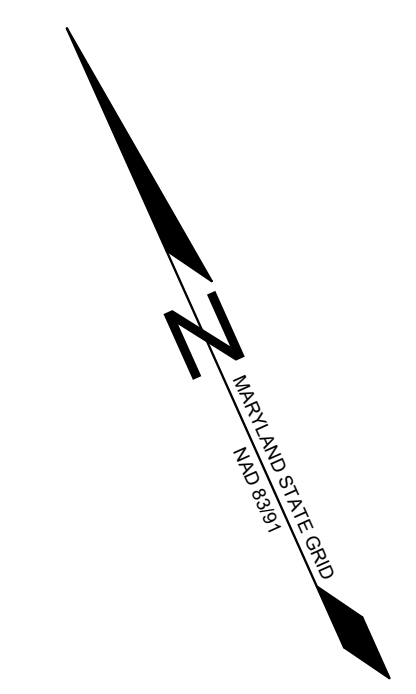
13370 ROUTE 144
 TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PARCEL 73

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 1 of 38

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 413.323.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

(INTERSTATE 70)
BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)
PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481



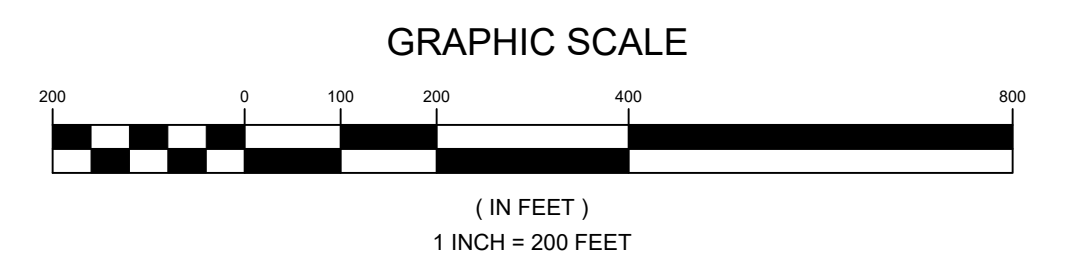
LEGEND	
EXISTING CONTOUR GIS	---
EXISTING CONTOUR FIELD RUN	---
EXISTING TREELINE	~~~~~
EXISTING WETLAND	W
EXISTING WETLAND AREA	[Stippled Box]
EXISTING 25' WETLAND BUFFER	WB
EXISTING STREAM	SB
EXISTING 100' STREAM BUFFER	SB
EXISTING 100-YEAR FLOODPLAIN	---
EXISTING SPECIMEN TREE	ST#4
EXISTING SPECIMEN TREE TO BE REMOVED	ST#4
EXISTING SPECIMEN TREE WITH CRITICAL ROOT ZONE	ST#4
MODERATE SLOPES (15% TO 25%)	[Light Gray Box]
STEEP SLOPES (OVER 25%)	[Dark Gray Box]

NOTE: SLOPES SHOWN ARE THOSE CONTAINED WITHIN THE SOLAR ARRAY USE AREA.

FREDERICK ROAD
(MARYLAND ROUTE 144)
SCENIC ROAD
MINOR ARTERIAL
80' R/W (ULTIMATE)

PFEFFERCORN ROAD
LOCAL SCENIC ROAD

PLAN VIEW
SCALE: 1"=200'



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

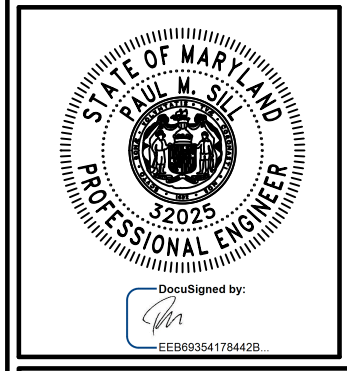
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Bill Edmondson
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 5/12/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gowan
DIRECTOR
DATE: 5/20/2022

NO.	DESCRIPTION	DATE

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
908-955-4360
WALTER.SERAFYN@CIRENEW.COM

EXISTING CONDITIONS AND SLOPE DELINEATION PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 73
HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 2 of 38

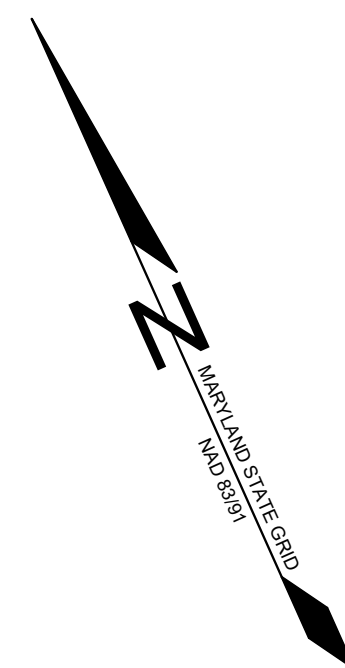
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MaD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	BiD	0.37

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

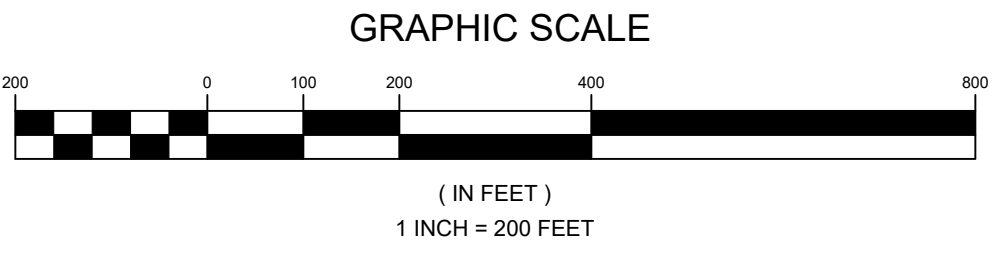
BALTIMORE NATIONAL PIKE (INTERSTATE 70/U.S. ROUTE 40)

PRINCIPAL ARTERIAL
 SHA PLATS NO. 42478, 42479 & 42481



**FREDERICK ROAD
(MARYLAND ROUTE 144)**
 SCENIC ROAD
 MINOR ARTERIAL
 80' RW (ULTIMATE)

PLAN VIEW
 SCALE: 1"=200'



LEGEND

- EXISTING CONTOUR GIS - 382
- EXISTING CONTOUR FIELD RUN - 382
- EXISTING TREELINE - 382
- EXISTING WETLAND - W
- EXISTING WETLAND AREA - WB
- EXISTING 25' WETLAND BUFFER - WB
- EXISTING STREAM - SB
- EXISTING 100' STREAM BUFFER - SB
- EXISTING 100-YEAR FLOODPLAIN - 382
- PROPOSED FENCE LINE - X - X
- 'B'
- 'C'
- 'C/D'

NOTE: SOILS SHOWN ARE THOSE CONTAINED WITHIN THE SOLAR ARRAY USE AREA.

APPROVED : FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

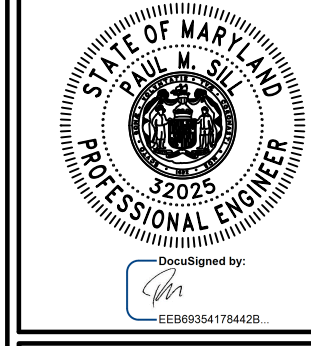
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Edmondson 5/12/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 5/12/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 5/20/2022
Amy Stoman
 DIRECTOR

DESCRIPTION	DATE
REVISIONS	

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

SOILS MAP
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144
 TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PARCEL 73

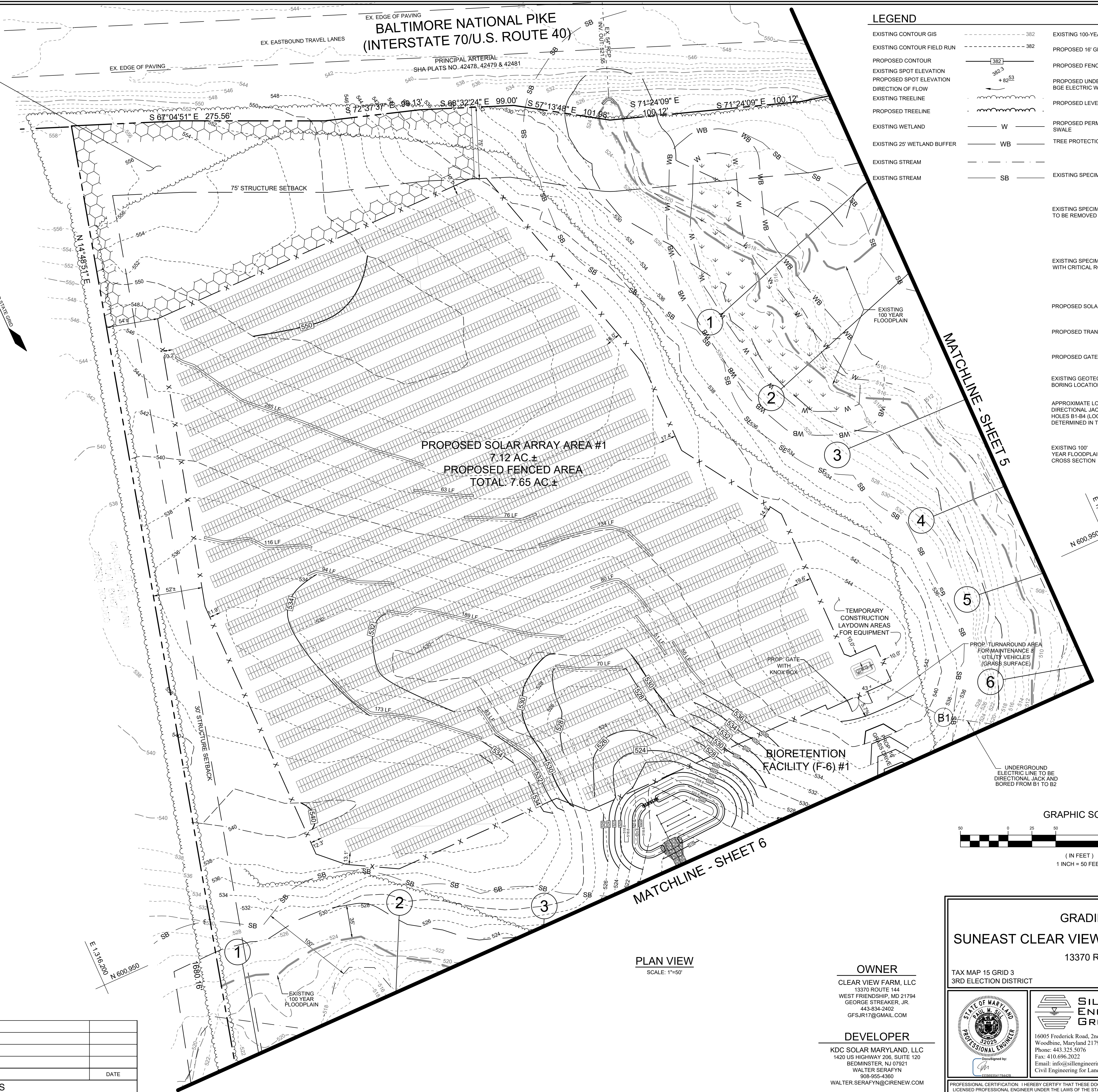
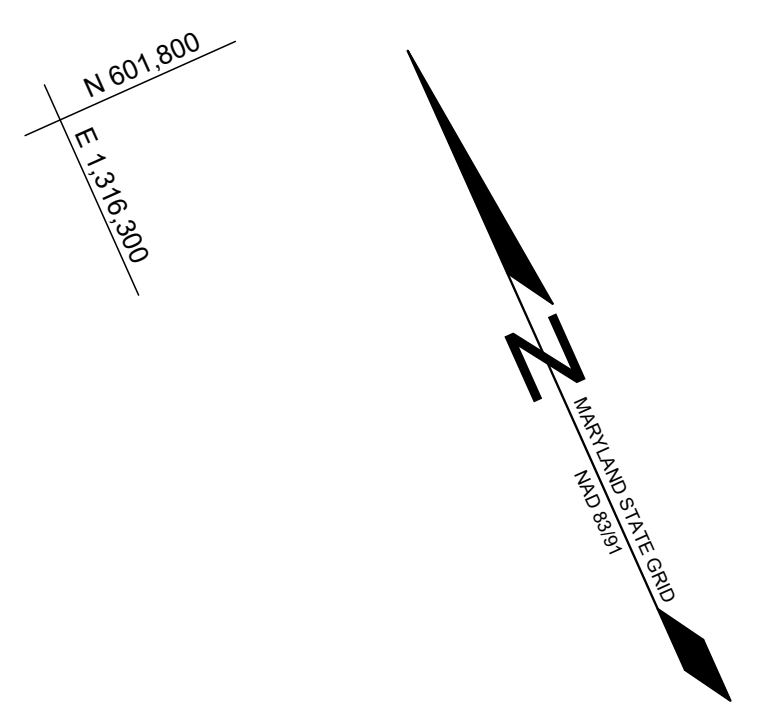


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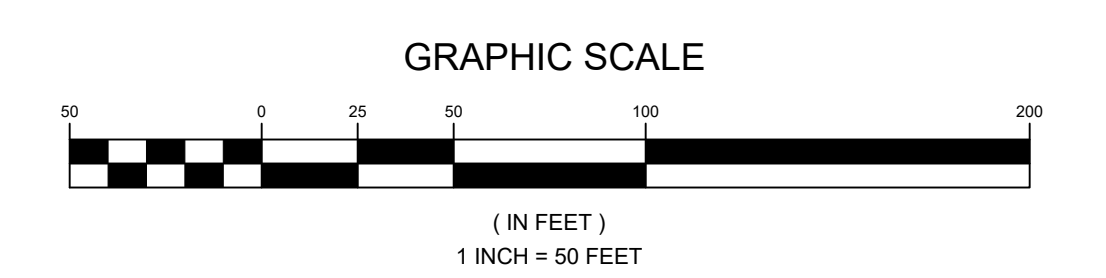
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 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 3 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

EXISTING FOREST
 CONSERVATION/EASEMENT 'A'
 RETENTION/REFORESTATION
 TOTAL 60,548.4 SF 1.39 AC.±
 0.29 AC. RETENTION, 0.14 AC. CREDIT
 0.5:1 RETENTION CREDIT
 1.1 AC. REFORESTATION
 1:1 PLANTING CREDIT
 TOTAL CREDIT 1.24 ACRES
 PLAT NO. 26502



LEGEND			
EXISTING CONTOUR GIS	--- 382 ---	EXISTING 100-YEAR FLOODPLAIN	---
EXISTING CONTOUR FIELD RUN	--- 382 ---	PROPOSED 16' GRASS DRIVE	---
PROPOSED CONTOUR	--- 382 ---	PROPOSED FENCE LINE	- X - X -
EXISTING SPOT ELEVATION	382.3	PROPOSED UNDERGROUND BGE ELECTRIC WIRES	- E -
PROPOSED SPOT ELEVATION	+ 82.53	PROPOSED LEVEL SPREADERS	--- 60 LF ---
DIRECTION OF FLOW	→	PROPOSED PERMANENT SWALE	==>
EXISTING TREETRINE	~	TREE PROTECTION FENCING	- TP -
PROPOSED TREETRINE	~	EXISTING SPECIMEN TREE	ST#4
EXISTING WETLAND	W	EXISTING SPECIMEN TREE TO BE REMOVED	ST#4
EXISTING 25' WETLAND BUFFER	WB	EXISTING SPECIMEN TREE WITH CRITICAL ROOT ZONE	C.R.Z. ST#4
EXISTING STREAM	SB	PROPOSED SOLAR PANELS	
EXISTING STREAM	SB	PROPOSED TRANSFORMER	☐
		PROPOSED GATE	∩
		EXISTING GEOTECHNICAL BORING LOCATIONS	P-1
		APPROXIMATE LOCATION OF DIRECTIONAL JACK AND BORE HOLES B1-B4 (LOCATION TO BE DETERMINED IN THE FIELD)	B1
		EXISTING 100' YEAR FLOODPLAIN CROSS SECTION	1 — 1



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by: Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Edmondson 5/12/2022
 CHIEF, DEVELOPMENT AND ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gowan 5/20/2022
 DIRECTOR

NO.	DESCRIPTION	DATE

PLAN VIEW
 SCALE: 1"=50'

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

GRADING PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 HOWARD COUNTY, MARYLAND

WALTER SERAFYN
 LICENSE NO. 32025
 STATE OF MARYLAND

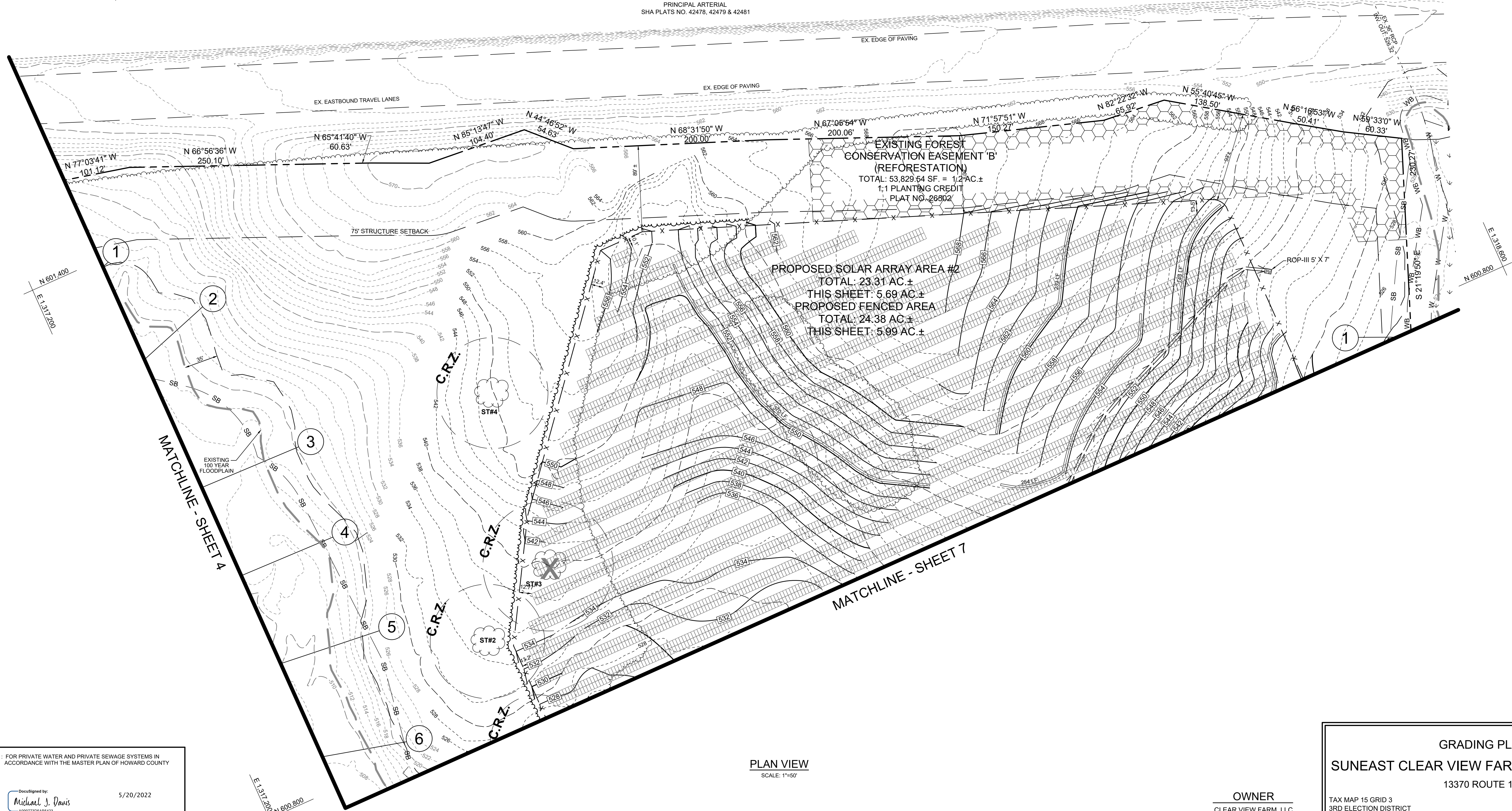
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 PROJECT #: 19-044
 SHEET #: 4 of 38

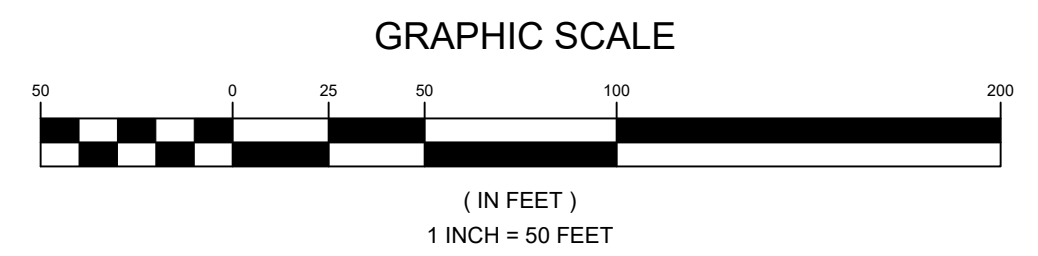
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BALTIMORE NATIONAL PIKE (INTERSTATE 70/U.S. ROUTE 40)

PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481



PLAN VIEW
SCALE: 1"=50'



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

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Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Edmondson 5/12/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gosan 5/20/2022
DIRECTOR

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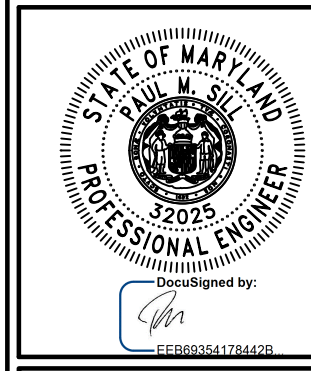
REVISIONS

GRADING PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 73
HOWARD COUNTY, MARYLAND

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

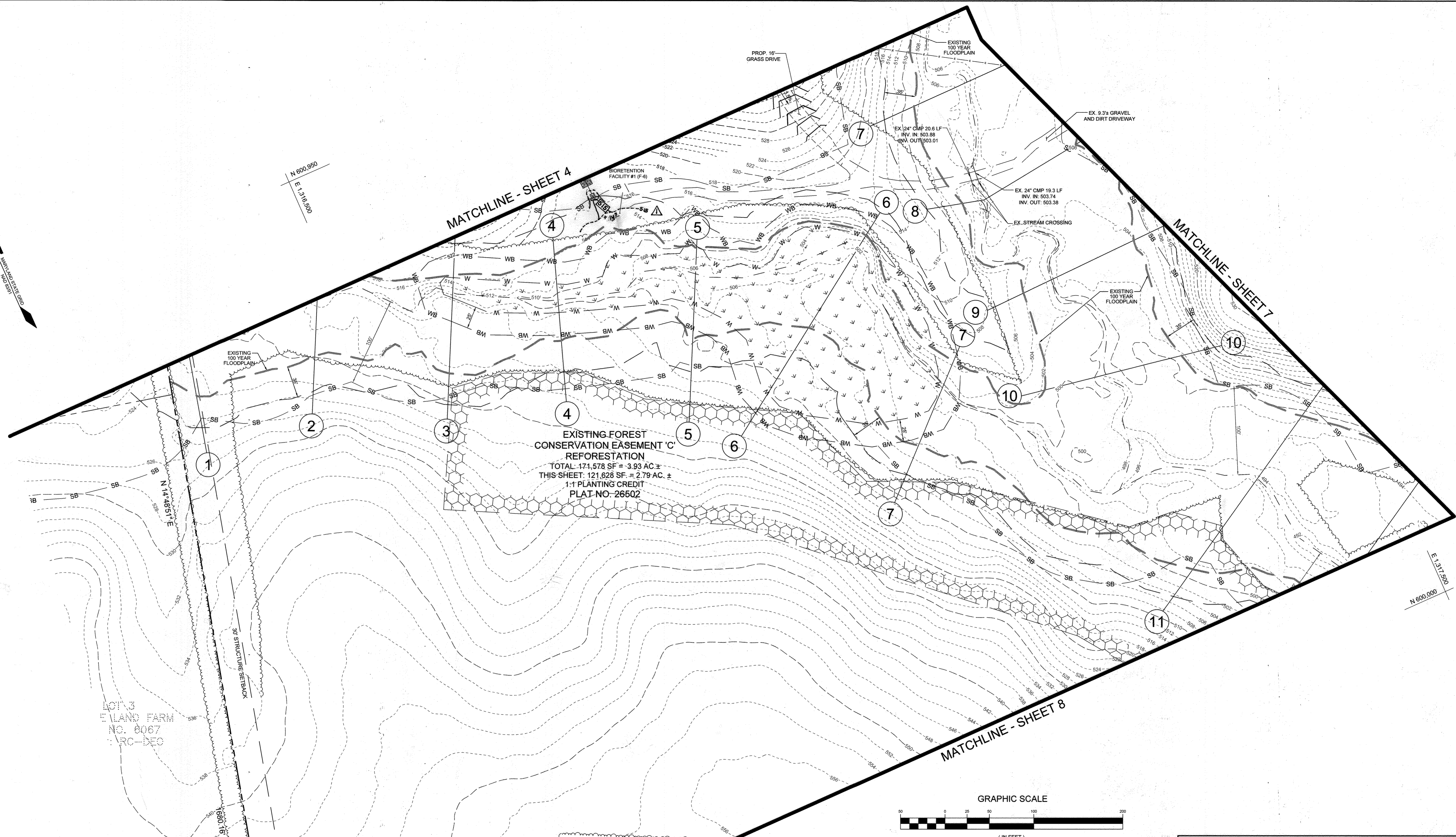
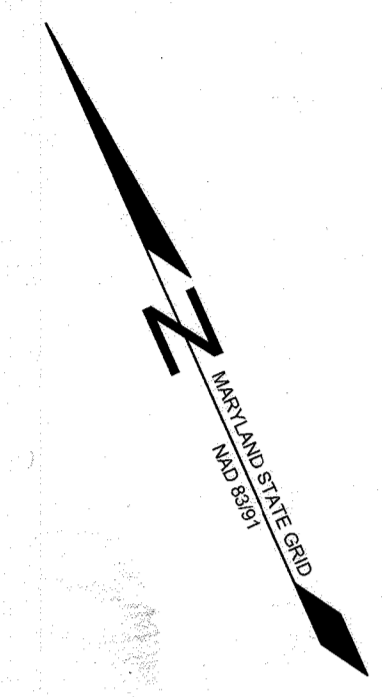
DEVELOPER
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BEDMINSTER, NJ 07921
WALTER SERAFYN
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Civil Engineering for Land Development

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DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 5 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



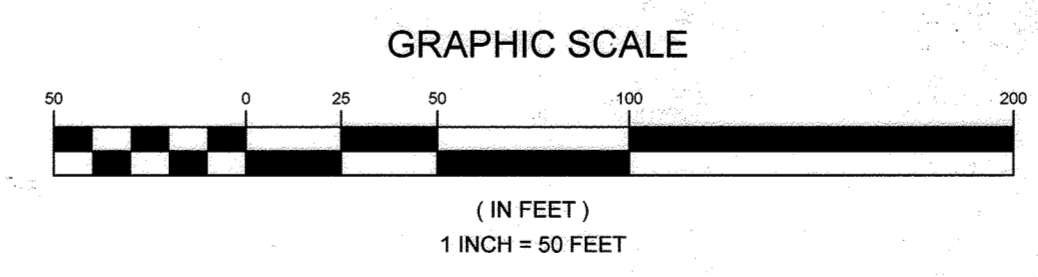
MATCHLINE - SHEET 4

MATCHLINE - SHEET 7

MATCHLINE - SHEET 8

EXISTING FOREST
CONSERVATION EASEMENT 'C'
REFORESTATION
TOTAL: 171,578 SF = 3.93 AC ±
THIS SHEET: 121,628 SF = 2.79 AC ±
1:1 PLANTING CREDIT
PLAT NO: 26602

LOT 3
E LAND FARM
NO. 6087
ARC-DEO



PLAN VIEW
SCALE: 1"=50'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Designed by: Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
5/12/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 5/12/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 5/20/2022
DIRECTOR

NO.	DESCRIPTION	DATE
1	REVISE THE GRADING AT THE OUTFALL OF BIO #1	05/02/2023

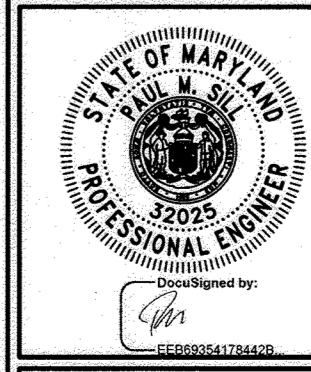
NOTE: ON MAY 17, 2023, A REQUEST FOR NECESSARY DISTURBANCE TO A STREAM BANK BUFFER WAS APPROVED IN ASSOCIATION WITH THE F-4 BIORETENTION FACILITY #1.

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07021
WALTER SERAFYN
908-955-4360
WALTER.SERAFYN@CIRENEW.COM

GRADING PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

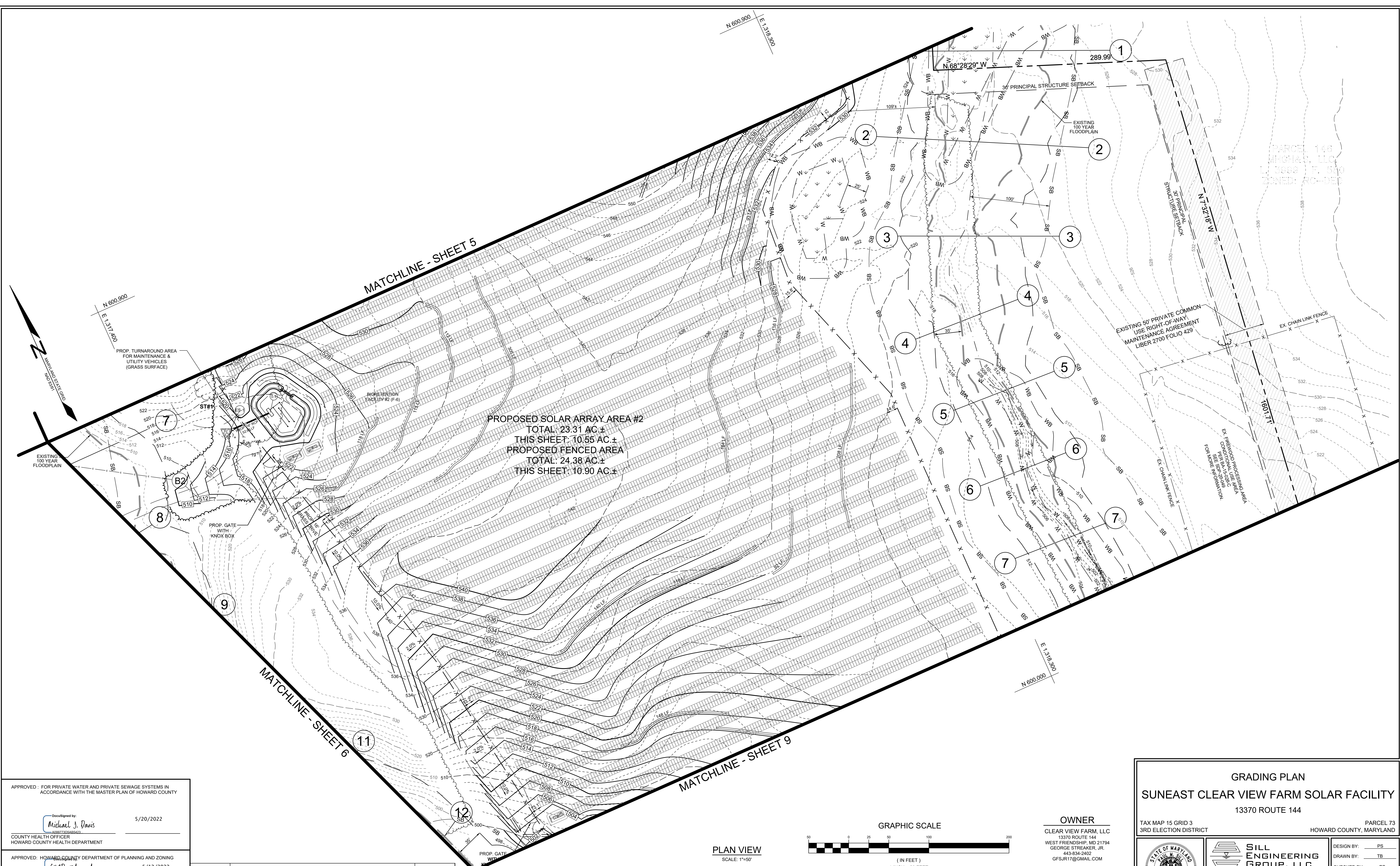
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 73
HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
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Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
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Civil Engineering for Land Development

DESIGN BY: PS
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SCALE: AS SHOWN
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SHEET #: 6 of 38

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PROPOSED SOLAR ARRAY AREA #2
 TOTAL: 23.31 AC±
 THIS SHEET: 10.55 AC±
 PROPOSED FENCED AREA
 TOTAL: 24.38 AC±
 THIS SHEET: 10.90 AC±

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
 Michael J. Davis
 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

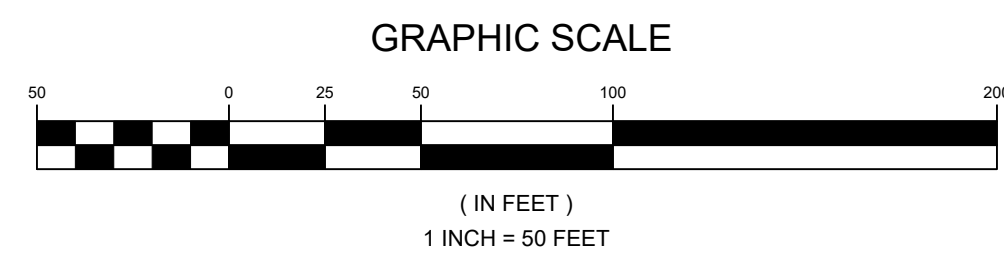
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 5/12/2022

Chief, Division of Land Development
 5/20/2022

Director
 5/20/2022

NO.	DESCRIPTION	DATE

PLAN VIEW
 SCALE: 1"=50'



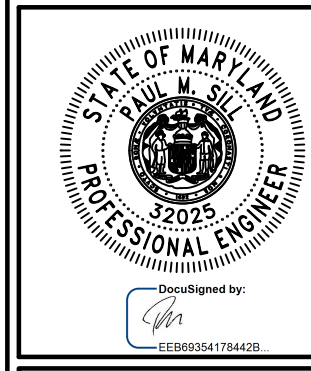
OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
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 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

GRADING PLAN
SUNEAUT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

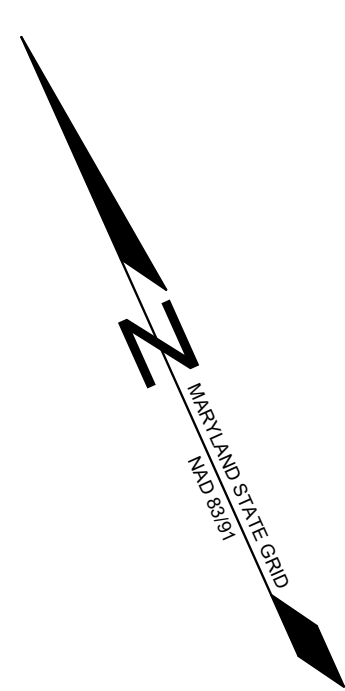
PARCEL 73
 HOWARD COUNTY, MARYLAND



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 SHEET #: 7 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



N 600.200
E 1,316.900

MATCHLINE - SHEET 6

EXISTING FOREST
CONSERVATION EASEMENT 'C'
REFORESTATION
TOTAL: 171,578 SF. = 3.93 AC.±
THIS SHEET: 49,950 SF. = 1.15 AC. ±
1:1 PLANTING CREDIT
PLAT NO. 26502

12

13

14

MATCHLINE - SHEET 9

15

16

MATCHLINE - SHEET 10

S 54°03'05" E
30' STRUCTURE SETBACK

910.85'

S 11°32'41" N
30' STRUCTURE SETBACK

S 81°33'38" E
179.00'

E 1,317.800
N 699.400

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

5/20/2022

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Edmondson
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

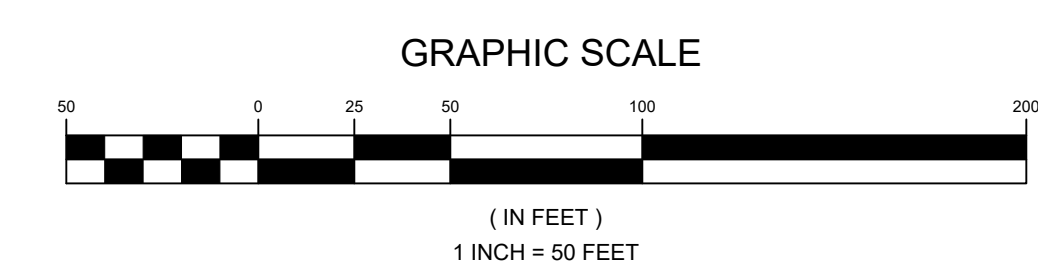
5/12/2022

5/20/2022

NO.	DESCRIPTION	DATE

REVISIONS

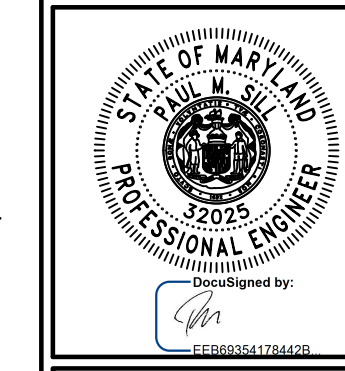
PLAN VIEW
SCALE: 1"=50'



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443-834-2402
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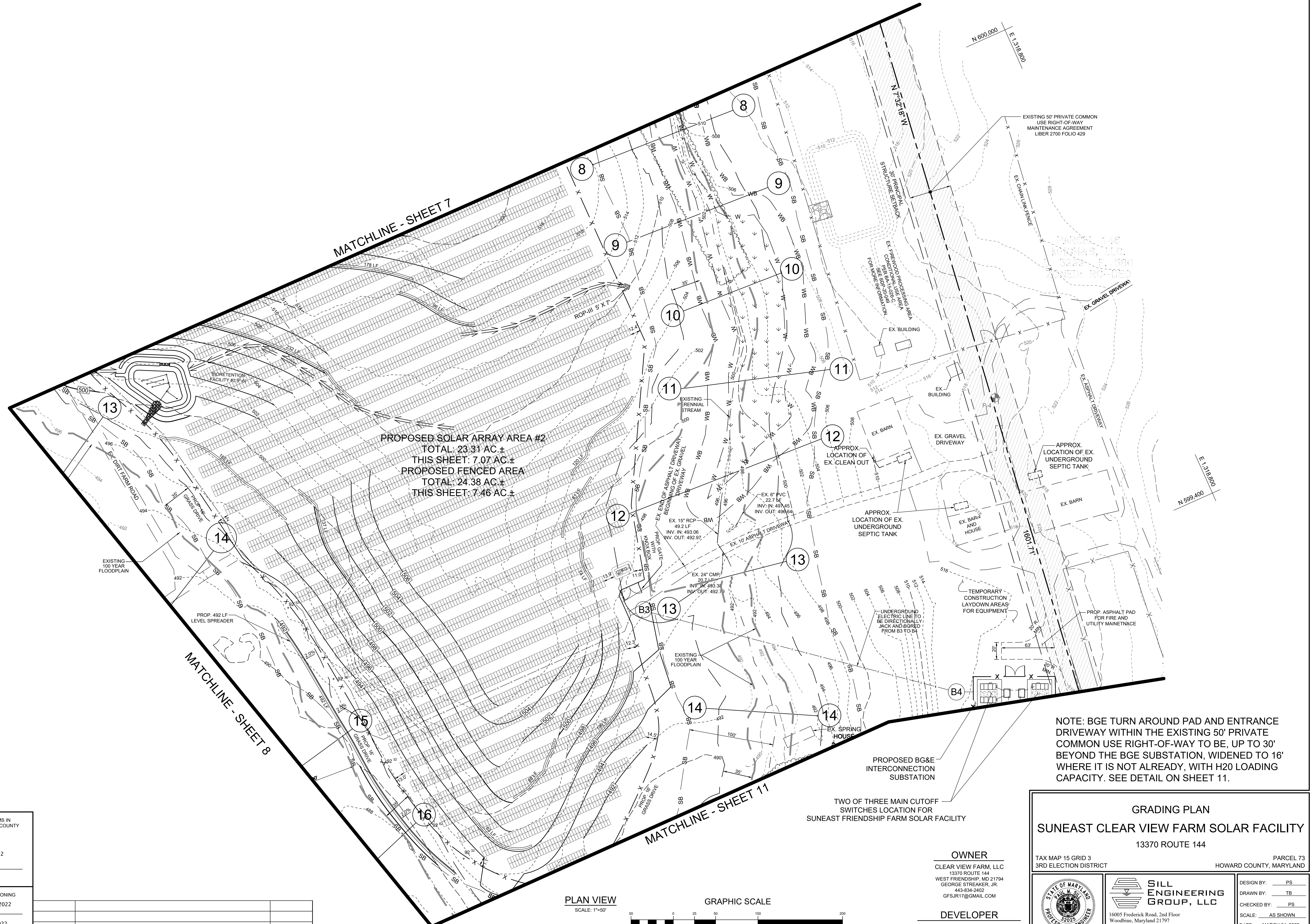
GRADING PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PARCEL 73



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PROPOSED SOLAR ARRAY AREA #2
 TOTAL: 23.31 AC ±
 THIS SHEET: 7.07 AC ±
 PROPOSED FENCED AREA
 TOTAL: 24.38 AC ±
 THIS SHEET: 7.46 AC ±

NOTE: BGE TURN AROUND PAD AND ENTRANCE DRIVEWAY WITHIN THE EXISTING 50' PRIVATE COMMON USE RIGHT-OF-WAY TO BE, UP TO 30' BEYOND THE BGE SUBSTATION, WIDENED TO 16' WHERE IT IS NOT ALREADY, WITH H20 LOADING CAPACITY. SEE DETAIL ON SHEET 11.

TWO OF THREE MAIN CUTOFF SWITCHES LOCATION FOR SUNEAST FRIENDSHIP FARM SOLAR FACILITY

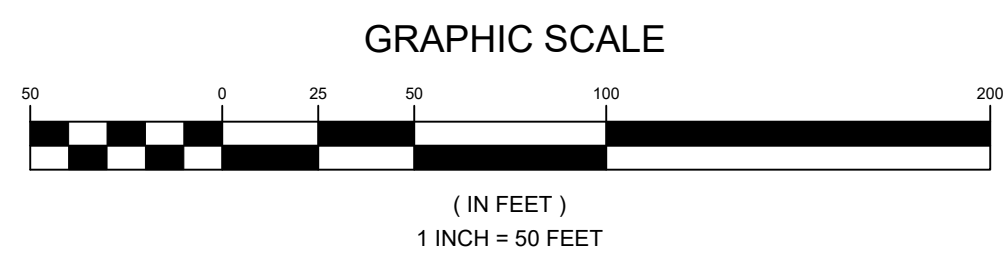
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DocuSigned by:
 Michael J. Davis
 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 5/12/2022
 Chief, Division of Land Development
 5/20/2022
 Director

NO.	DESCRIPTION	DATE

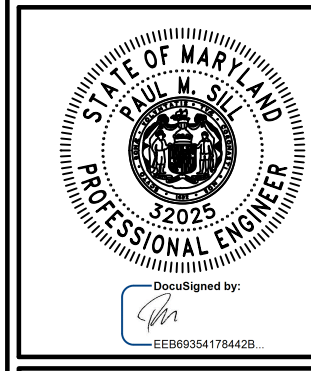
PLAN VIEW
 SCALE: 1"=50'



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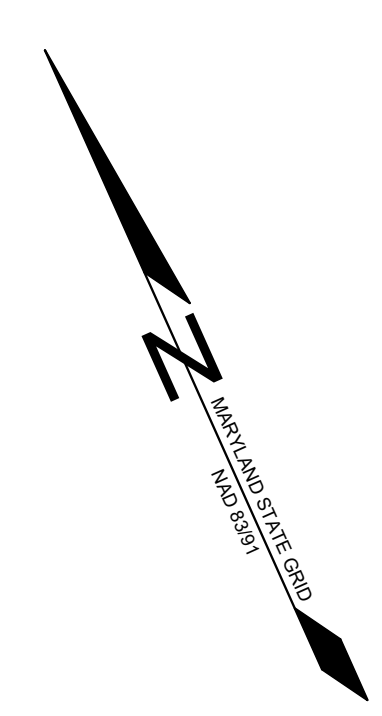
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SUNEAST CLEAR VIEW FARM SOLAR FACILITY
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 TAX MAP 15 GRID 3
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 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 9 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



N 599,400
E 1,316,900

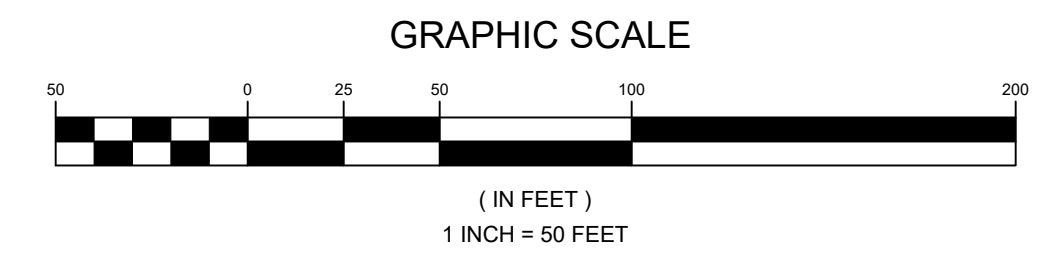


N 598,800
E 1,317,900

E 1,318,900
N 598,800

**FREDERICK ROAD
(MARYLAND ROUTE 144)**
SCENIC ROAD
MINOR ARTERIAL
80' R/W (ULTIMATE)

PLAN VIEW
SCALE: 1"=50'



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis 5/20/2022
A09977305A85432
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

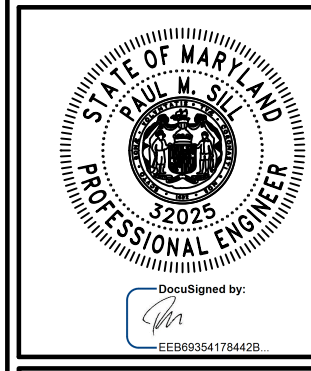
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Will Edmondson 5/12/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 5/12/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gowan 5/20/2022
DATE: 5/20/2022
DIRECTOR

NO.	DESCRIPTION	DATE

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
908-955-4260
WALTER.SERAFYN@CIRENEW.COM

GRADING PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 73
HOWARD COUNTY, MARYLAND

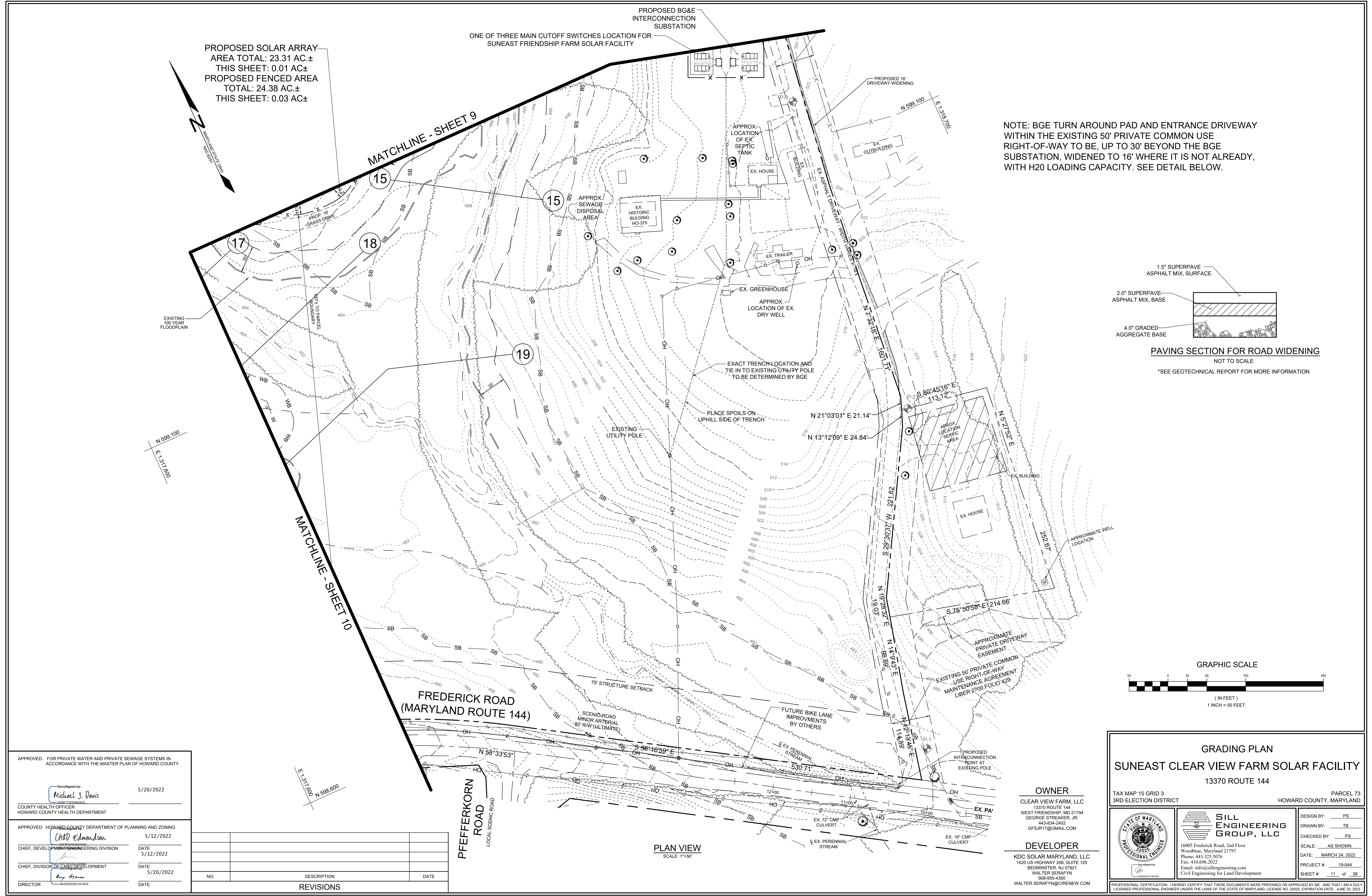
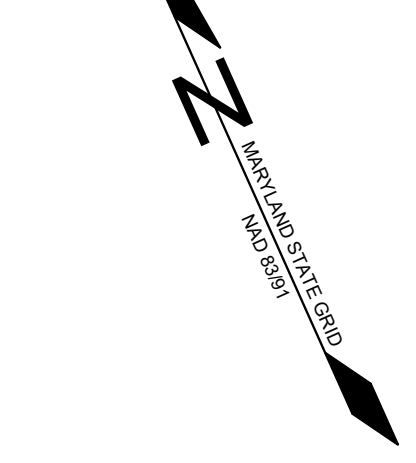


SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

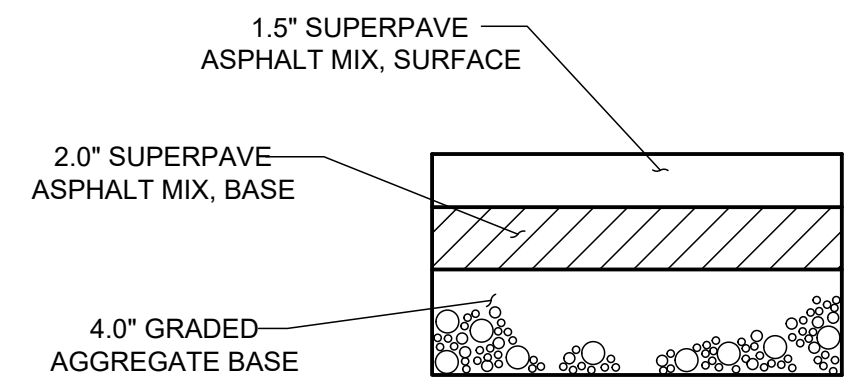
DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 10 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20225, EXPIRATION DATE: JUNE 20, 2023

PROPOSED SOLAR ARRAY
 AREA TOTAL: 23.31 AC.±
 THIS SHEET: 0.01 AC.±
 PROPOSED FENCED AREA
 TOTAL: 24.38 AC.±
 THIS SHEET: 0.03 AC.±

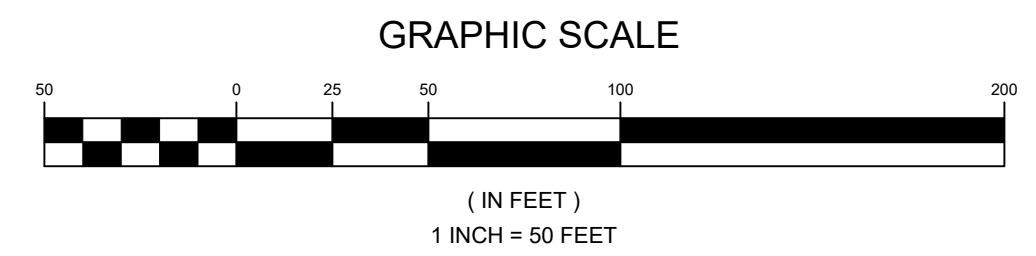


NOTE: BGE TURN AROUND PAD AND ENTRANCE DRIVEWAY WITHIN THE EXISTING 50' PRIVATE COMMON USE RIGHT-OF-WAY TO BE, UP TO 30' BEYOND THE BGE SUBSTATION, WIDENED TO 16' WHERE IT IS NOT ALREADY, WITH H20 LOADING CAPACITY. SEE DETAIL BELOW.



PAVING SECTION FOR ROAD WIDENING
 NOT TO SCALE

*SEE GEOTECHNICAL REPORT FOR MORE INFORMATION



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 5/20/2022

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Edmondson
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 5/12/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Goman
 DIRECTOR
 DATE: 5/20/2022

NO.	DESCRIPTION	DATE

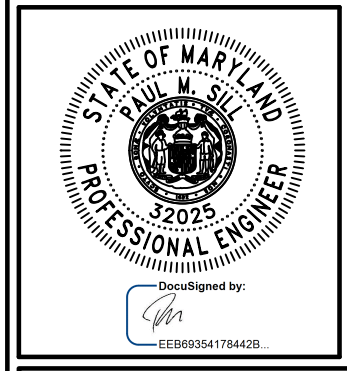
PLAN VIEW
 SCALE: 1"=50'

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

GRADING PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 PARCEL 73
 HOWARD COUNTY, MARYLAND



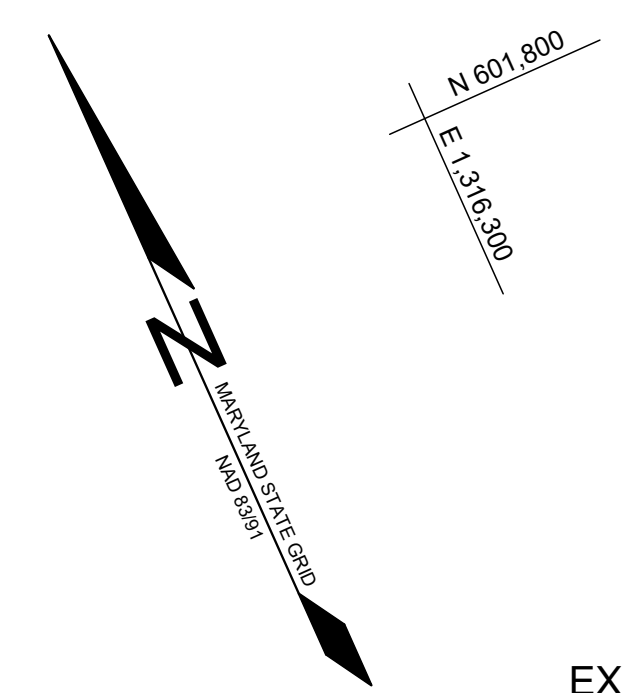
SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 11 of 38

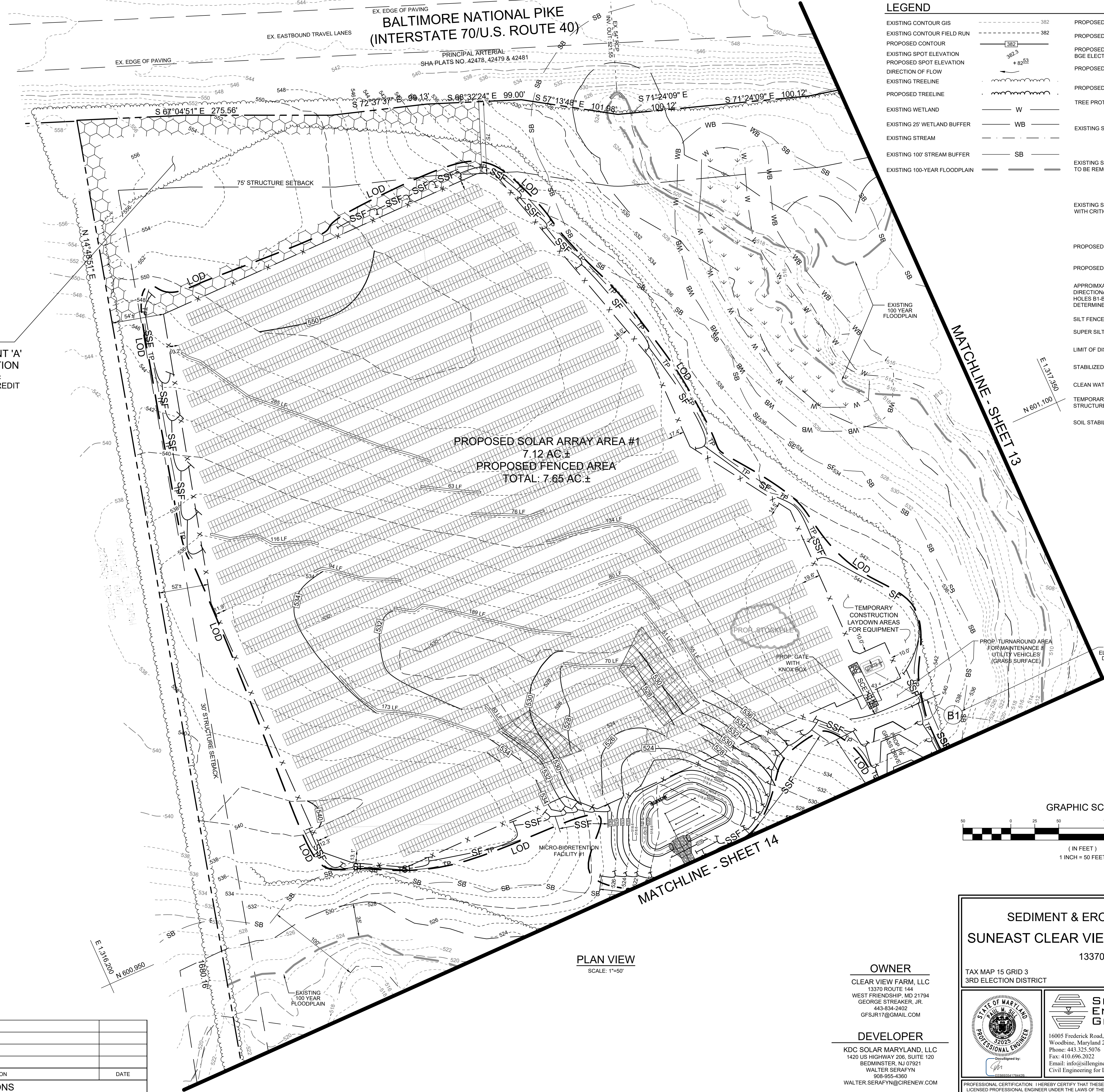
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	"K" FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmB	GLENVILLE-BAILE SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
MmC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MmD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR "K" GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



EXISTING FOREST CONSERVATION EASEMENT 'A'
RETENTION/REFORESTATION
 TOTAL 60,548.4 SF 1.39 AC.±
 0.29 AC. RETENTION, 0.14 AC. CREDIT
 0.5:1 RETENTION CREDIT
 1.1 AC. REFORESTATION
 1:1 PLANTING CREDIT
 TOTAL CREDIT 1.24 ACRES
 PLANT NO. 26502



LEGEND		
EXISTING CONTOUR GIS	---	382
EXISTING CONTOUR FIELD RUN	---	382
PROPOSED CONTOUR	---	382
EXISTING SPOT ELEVATION	+	82.53
PROPOSED SPOT ELEVATION	+	82.53
DIRECTION OF FLOW	→	
EXISTING TREETLINE	---	
PROPOSED TREETLINE	---	
EXISTING WETLAND	W	
EXISTING 25' WETLAND BUFFER	WB	
EXISTING STREAM	SB	
EXISTING 100' STREAM BUFFER	SB	
EXISTING 100-YEAR FLOODPLAIN	---	
PROPOSED 16" GRASS DRIVE	---	
PROPOSED FENCE LINE	X X	
PROPOSED UNDERGROUND BGE ELECTRIC WIRE	E	
PROPOSED LEVEL SPREADERS	60 LF	
PROPOSED PERMANENT SWALE	==	
TREE PROTECTION FENCING	TP	
EXISTING SPECIMEN TREE	ST#6	
EXISTING SPECIMEN TREE TO BE REMOVED	ST#6	
EXISTING SPECIMEN TREE WITH CRITICAL ROOT ZONE	ST#6	
PROPOSED SOLAR PANELS		
PROPOSED TRANSFORMER	☐	
APPROXIMATE LOCATION OF DIRECTIONAL JACK AND BORE HOLES B1-B4 (LOCATION TO BE DETERMINED IN THE FIELD)	B1	
SILT FENCE	SF	
SUPER SILT FENCE	SSSF	
LIMIT OF DISTURBANCE	LOD	
STABILIZED CONSTRUCTION ENTRANCE	SCE	
CLEAN WATER EARTH DIKE A-2	---	
TEMPORARY STONE OUTLET STRUCTURE	☐	
SOIL STABILIZATION MATTING	▨	

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
 Michael J. Davis
 409977305485423
 5/20/2022

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

DEVELOPER'S CERTIFICATE
 "I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
 4/26/2022

SIGNATURE OF DEVELOPER
 DATE

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
 4/26/2022

SIGNATURE OF ENGINEER
 PAUL M. SILL, P.E.
 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DocuSigned by:
 Alexander Eratichie
 656480264869461
 5/12/2022

HOWARD SCD
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by:
 Chad Edmondson
 408844403000000
 5/12/2022

CHIEF, DEVELOPMENT AND ZONING ENGINEERING DIVISION
 DATE

DocuSigned by:
 Amy Gosman
 584050204706244
 5/20/2022

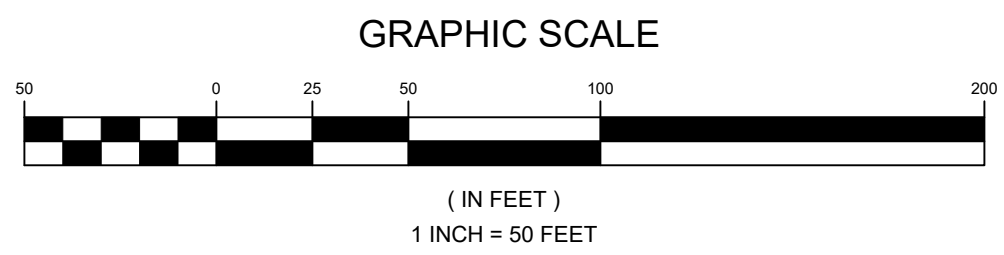
CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE

DocuSigned by:
 5/20/2022

DIRECTOR
 DATE

NO.	DESCRIPTION	DATE

PLAN VIEW
 SCALE: 1"=50'



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 608-955-4260
 WALTER.SERAFYN@CI9NEWS.COM

SEDIMENT & EROSION CONTROL PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

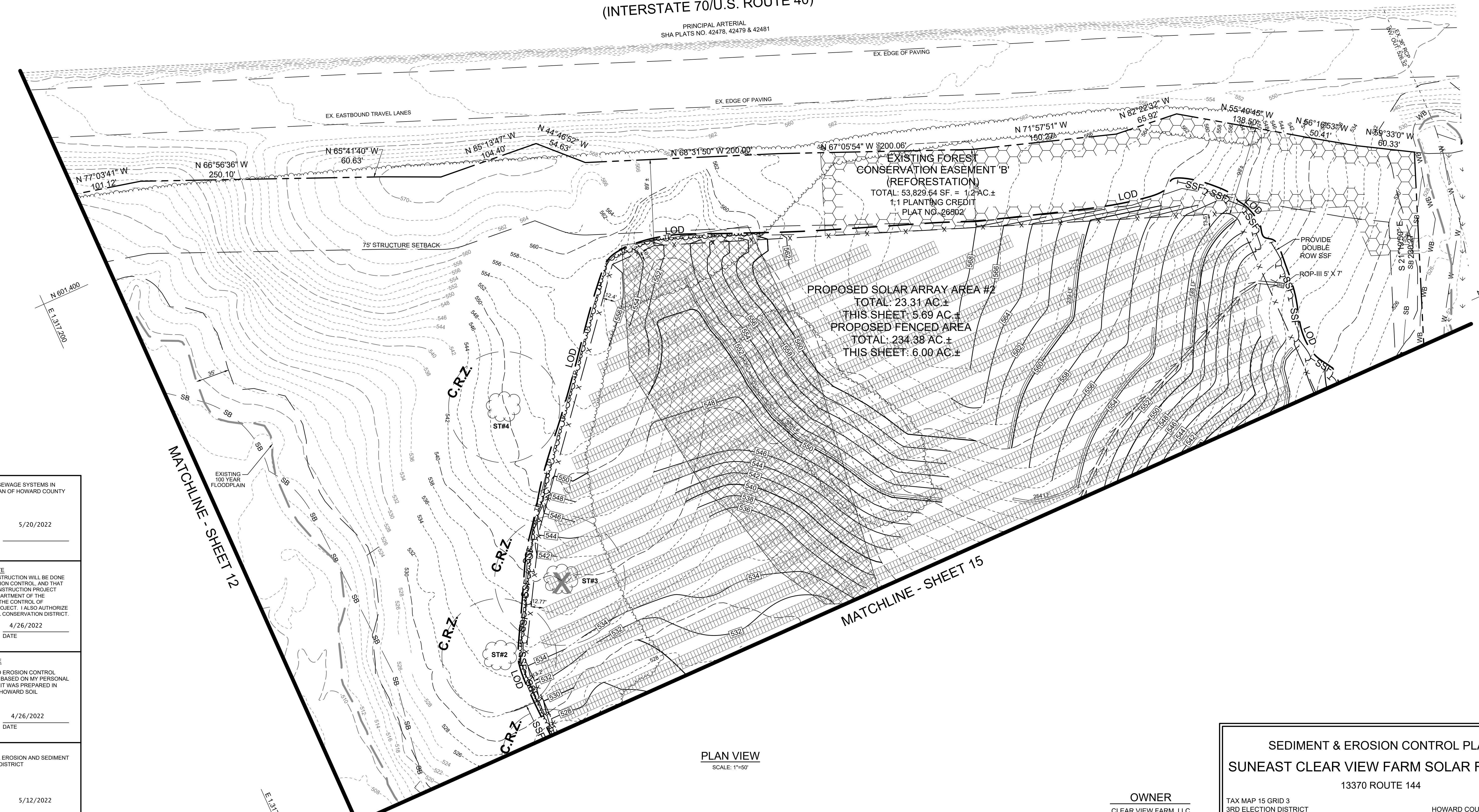
DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 12 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GhB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MaD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

**BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)**
 PRINCIPAL ARTERIAL
 SHA PLATS NO. 42478, 42479 & 42481



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Designed by: Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

DEVELOPER'S CERTIFICATE
 "I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Developer: [Signature] 4/26/2022

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Engineer: [Signature] 4/26/2022
 PAUL M. SILL, P.E.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

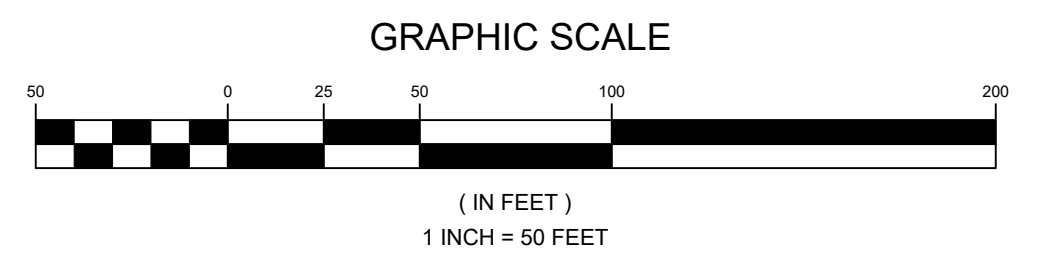
Designed by: Alexander Bratovic 5/12/2022
 HOWARD SCD

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: [Signature] 5/12/2022
 Chief, Division of Land Development: [Signature] 5/20/2022
 Director: [Signature]

NO.	DESCRIPTION	DATE

PLAN VIEW
 SCALE: 1"=50'



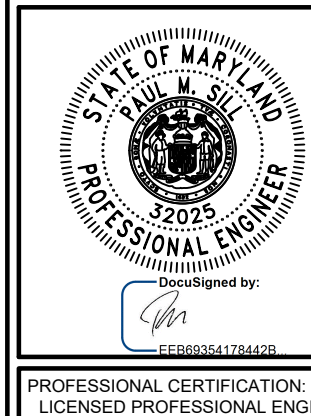
OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4360
 WALTER.SERAFYN@CIRENEW.COM

SEDIMENT & EROSION CONTROL PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 HOWARD COUNTY, MARYLAND



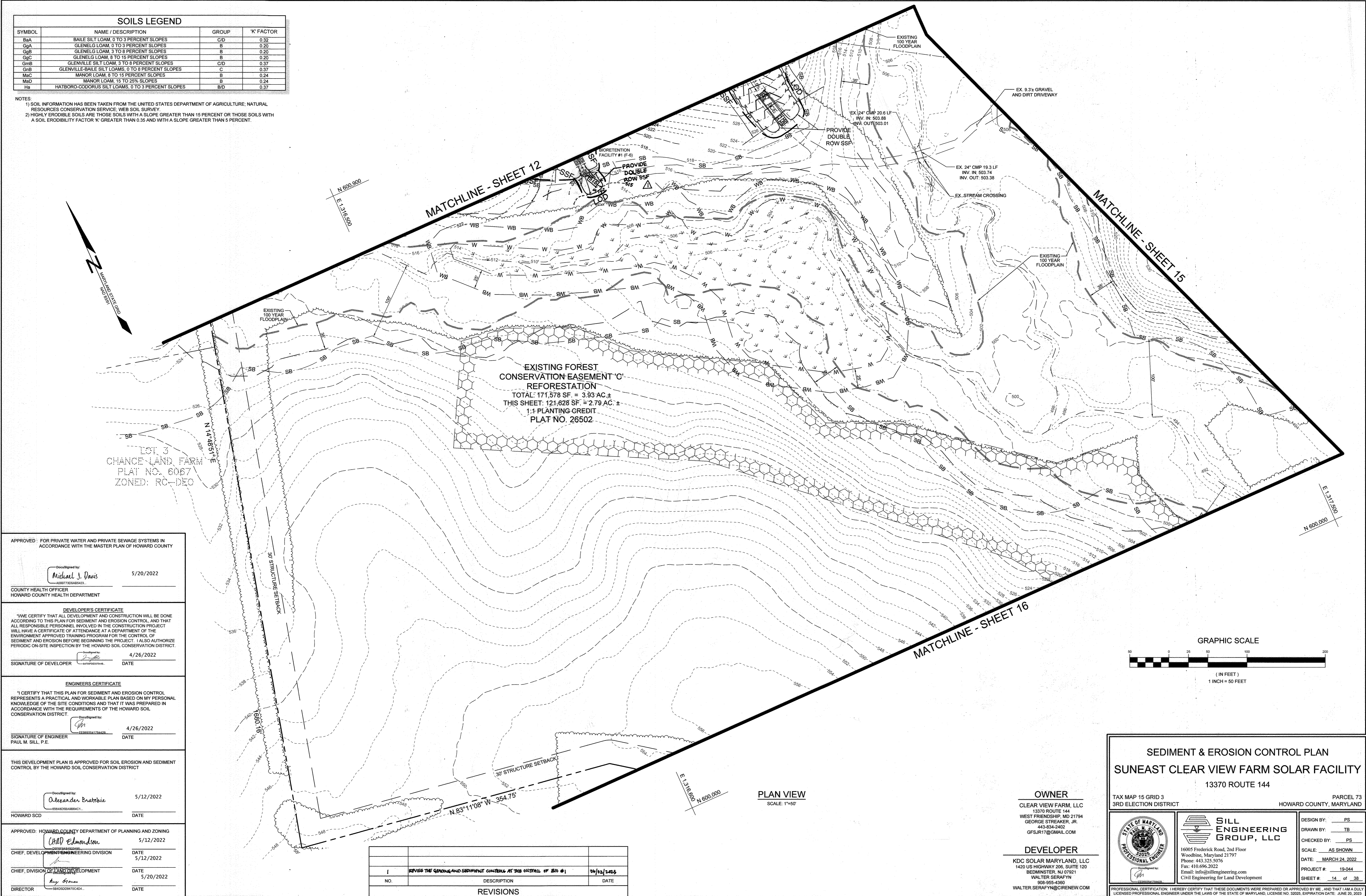
SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 13 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmC	GLENVILLE-SAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MaD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Hg	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



EXISTING FOREST
 CONSERVATION EASEMENT 'C'
 REFORESTATION
 TOTAL: 171,578 SF. = 3.93 AC. ±
 THIS SHEET: 121,828 SF. = 2.79 AC. ±
 1:1 PLANTING CREDIT
 PLAT NO. 26502

LOT 3
 CHANCE LAND FARM
 PLAT NO. 6067
 ZONED: RC-BEO

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
 SIGNATURE OF DEVELOPER: [Signature] DATE: 4/26/2022

ENGINEERS CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 SIGNATURE OF ENGINEER: [Signature] DATE: 4/26/2022
 PAUL M. SILL, P.E.

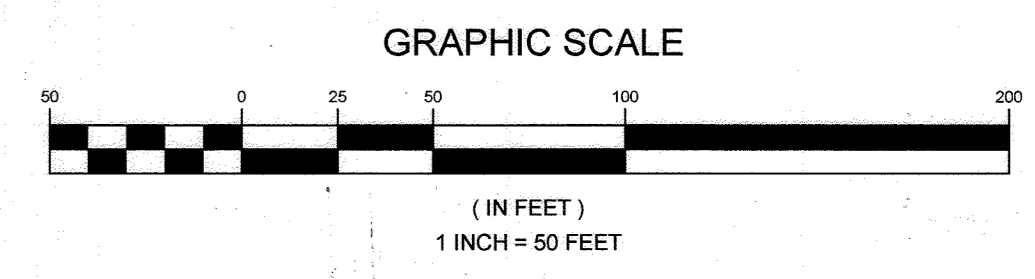
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DocuSigned by:
Alexander Brachic 5/12/2022
 HOWARD SCD DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION: [Signature] DATE: 5/12/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] DATE: 5/20/2022
 DIRECTOR: [Signature] DATE

NO.	DESCRIPTION	DATE
1	REVISE THE GRADING AND SEDIMENT CONTROL AT THE OUTFALL OF S10 #1	04/02/2022

PLAN VIEW
 SCALE: 1"=50'



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
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 WALTER.SERAFYN@CIRENEW.COM

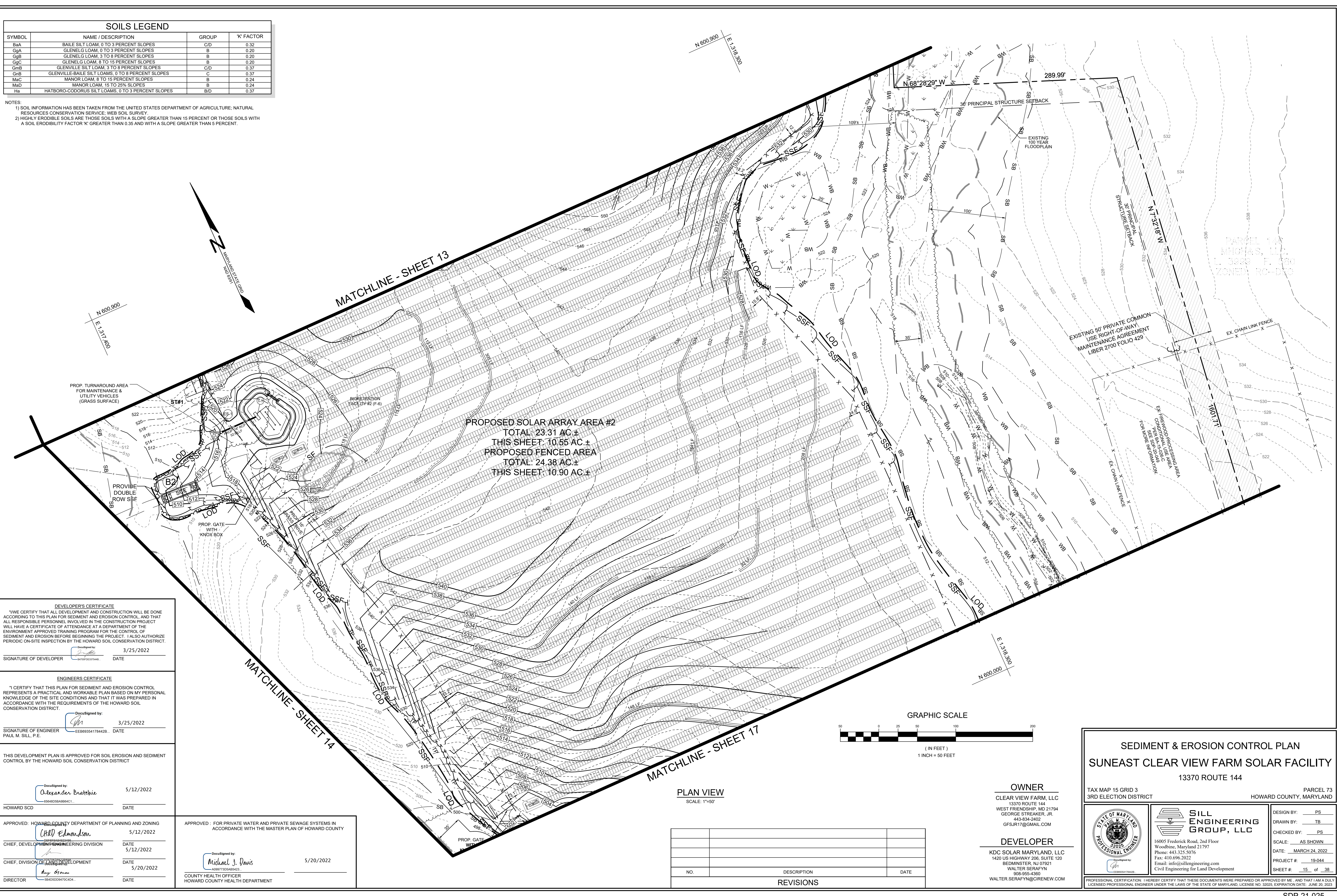
SEDIMENT & EROSION CONTROL PLAN
 SUNEAST CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND PARCEL 73

		DESIGN BY: PS
		DRAWN BY: TB
16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com	19-044 PROJECT #	CHECKED BY: PS
		DATE: MARCH 24, 2022
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20205, EXPIRATION DATE: JUNE 30, 2023.		SHEET # 14 of 38

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmB	GLENVILLE-BAILE SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
MmC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MaD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



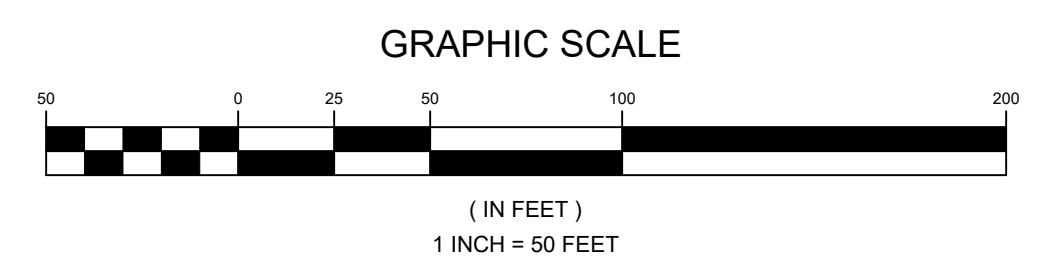
DEVELOPER'S CERTIFICATE
 "I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
 DocuSigned by: [Signature] 3/25/2022
 SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 DocuSigned by: [Signature] 3/25/2022
 SIGNATURE OF ENGINEER DATE
 PAUL M. SILL, P.E.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 DocuSigned by: Alexander Erathie 5/12/2022
 HOWARD SCD DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 5/12/2022
 CHIEF, DEVELOPMENT AND ZONING DIVISION DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 5/20/2022
 DIRECTOR DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 DocuSigned by: Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT



PLAN VIEW
 SCALE: 1"=50'

NO.	DESCRIPTION	DATE

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 608-955-4260
 WALTER.SERAFYN@CI9RENEW.COM

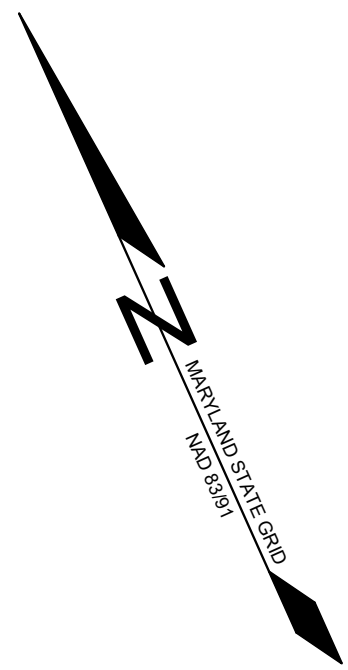
SEDIMENT & EROSION CONTROL PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144
 TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 PARCEL 73
 HOWARD COUNTY, MARYLAND

OWNER: CLEAR VIEW FARM, LLC
 DEVELOPER: KDC SOLAR MARYLAND, LLC
 ENGINEER: SILL ENGINEERING GROUP, LLC
 DATE: MARCH 24, 2022
 SHEET #: 15 of 38

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 PROJECT #: 19-044
 SHEET #: 15 of 38

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
CgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
MmC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MmD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



N 600,200
 E 1,316,800

MATCHLINE - SHEET 14

EXISTING FOREST
 CONSERVATION EASEMENT 'C'
 REFORESTATION
 TOTAL: 171,578 SF. = 3.93 AC.±
 THIS SHEET: 49,950 SF. = 1.16 AC. ±
 1:1 PLANTING CREDIT
 PLAT NO. 26502

MATCHLINE - SHEET 17

S 54°03'05" E
 30' STRUCTURE SETBACK

910.85'

S 81°33'38" E
 179.00'

E 1,317,800
 N 699,400

MATCHLINE - SHEET 18

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
 Michael J. Davis
 5/20/2022

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

DEVELOPER'S CERTIFICATE
 "I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
 Signature of Developer
 DATE: 4/26/2022

ENGINEERS CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
 Signature of Engineer
 DATE: 4/26/2022

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DocuSigned by:
 Alexander Bratovic
 5/12/2022

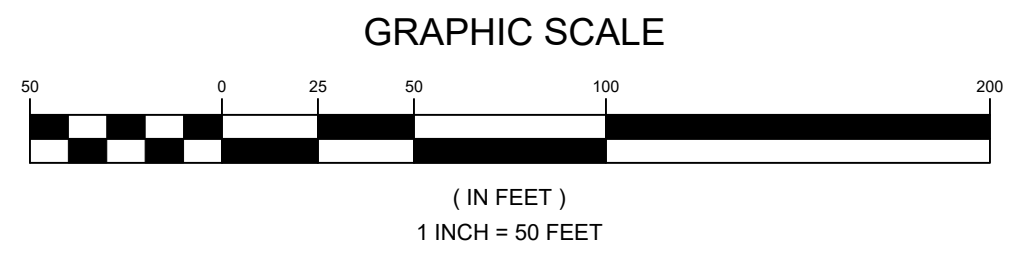
HOWARD SCD

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DocuSigned by:
 Chief, Development Engineering Division
 DATE: 5/12/2022
 Chief, Division of Land Development
 DATE: 5/20/2022
 Director

NO.	DESCRIPTION	DATE

REVISIONS

PLAN VIEW
 SCALE: 1"=50'



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

SEDIMENT & EROSION CONTROL PLAN
 SUNEAST CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 PARCEL 73
 HOWARD COUNTY, MARYLAND



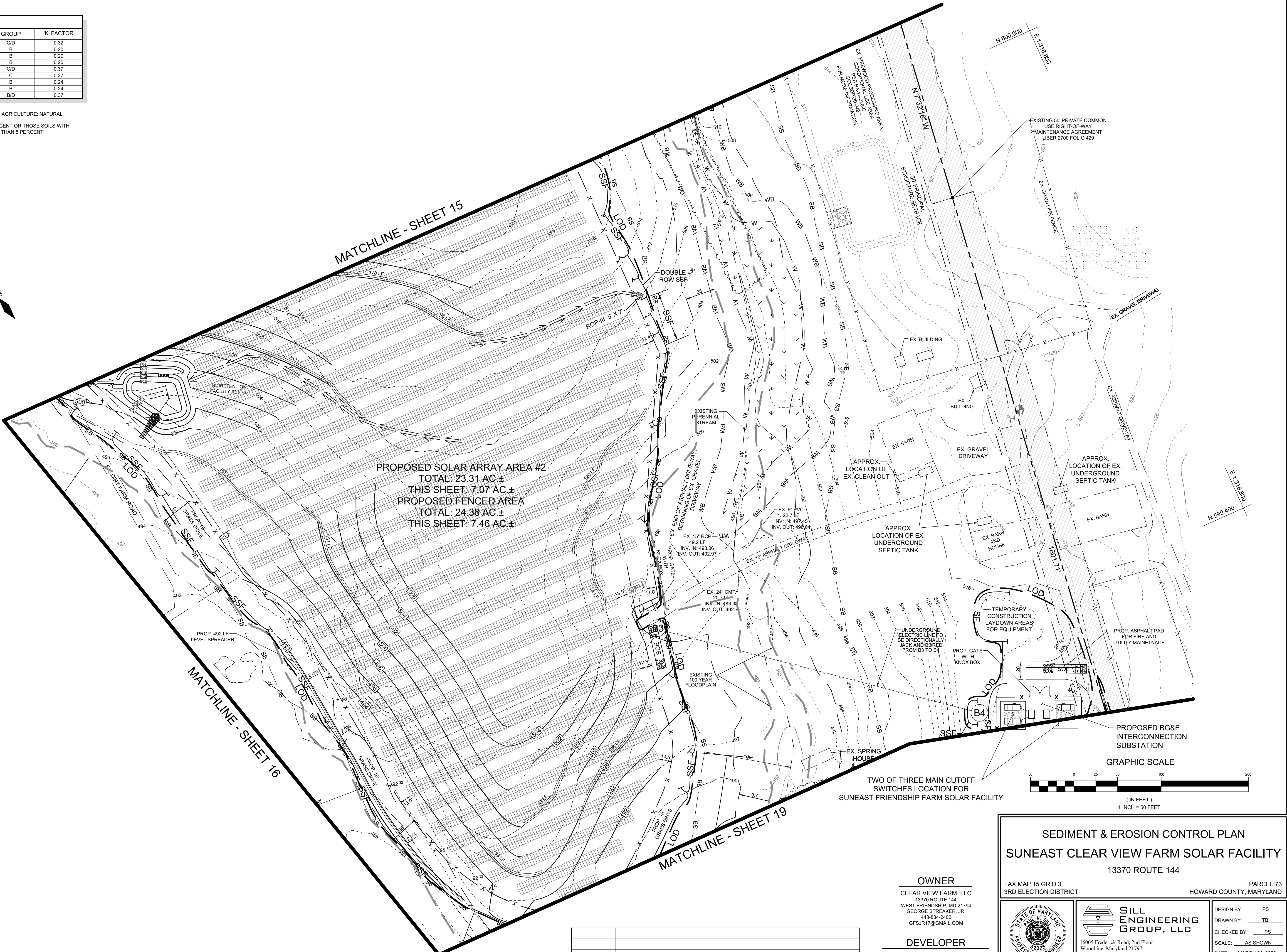
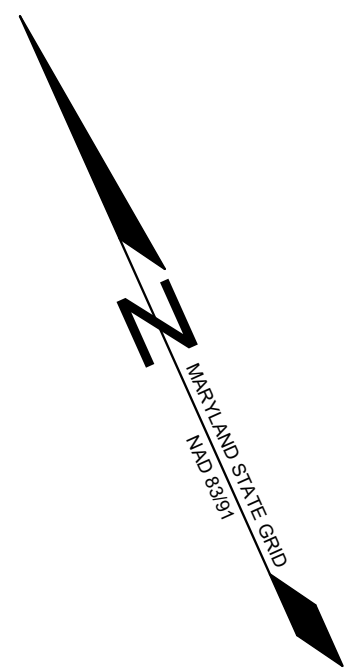
SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 16 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20225, EXPIRATION DATE: JUNE 20, 2023

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
MmC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MmD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

NOTES:
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PROPOSED SOLAR ARRAY AREA #2
 TOTAL: 23.31 AC ±
 THIS SHEET: 7.07 AC ±
 PROPOSED FENCED AREA
 TOTAL: 24.38 AC ±
 THIS SHEET: 7.46 AC ±

MATCHLINE - SHEET 16

MATCHLINE - SHEET 15

MATCHLINE - SHEET 19

PLAN VIEW
 SCALE: 1"=50'

NO.	DESCRIPTION	DATE

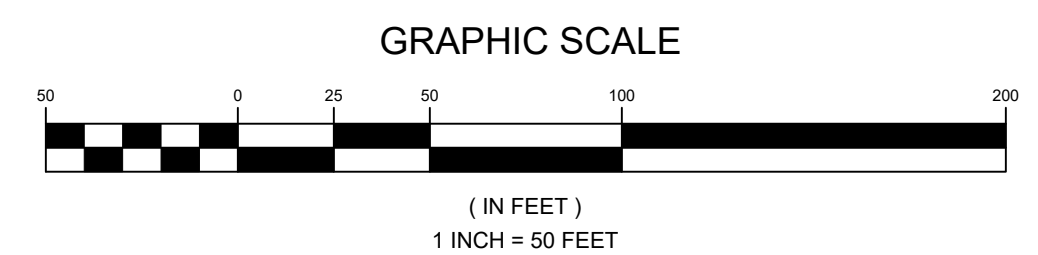
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 DocuSigned by: **Michael J. Davis** 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

DEVELOPER'S CERTIFICATE
 "I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
 DocuSigned by: **[Signature]** 3/25/2022
 SIGNATURE OF DEVELOPER DATE

ENGINEERS CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 DocuSigned by: **[Signature]** 3/25/2022
 SIGNATURE OF ENGINEER DATE
 PAUL M. SILL, P.E.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 DocuSigned by: **Alexander Bratovic** 5/12/2022
 HOWARD SCD DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DocuSigned by: **Bill Edmondson** 5/12/2022
 CHIEF DEVELOPER ENGINEERING DIVISION DATE
 DocuSigned by: **[Signature]** 5/20/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 DocuSigned by: **[Signature]**
 DIRECTOR DATE



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIENEWS.COM

SEDIMENT & EROSION CONTROL PLAN
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3 3RD ELECTION DISTRICT PARCEL 73 HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

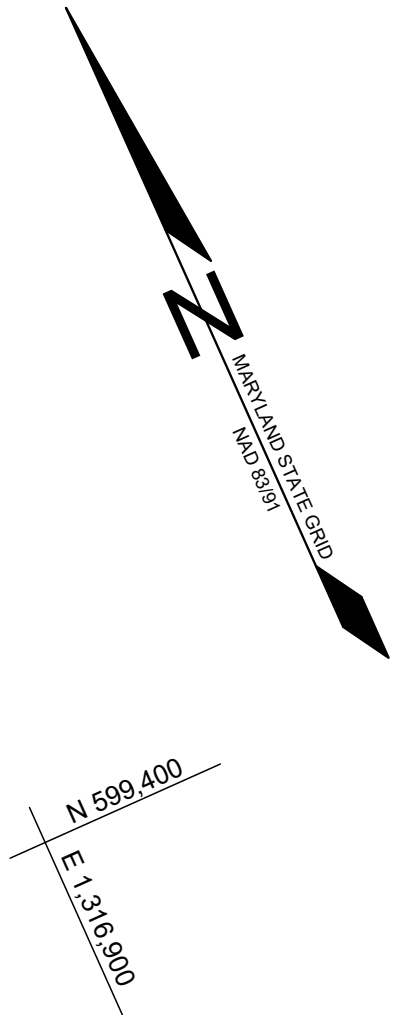
DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 17 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	"K" FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmB	GLENVILLE-BAILE SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
MmC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MaD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR "K" GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis 5/20/2022
A0997325A85423

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

DEVELOPER'S CERTIFICATE
 "I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
A0997325A85423

SIGNATURE OF DEVELOPER DATE 3/25/2022

ENGINEERS CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
E0B693541784423

SIGNATURE OF ENGINEER DATE 3/25/2022
 PAUL M. SILL, P.E.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DocuSigned by:
Alexander Bratovic 5/12/2022
0564820A8B694C1

HOWARD SCD DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by:
Chad Edmondson 5/12/2022
04848484032006

CHIEF, DEVELOPMENT AND ENGINEERING DIVISION DATE 5/12/2022

DocuSigned by:
Amy Gowan 5/20/2022
5B40500M70C4D4

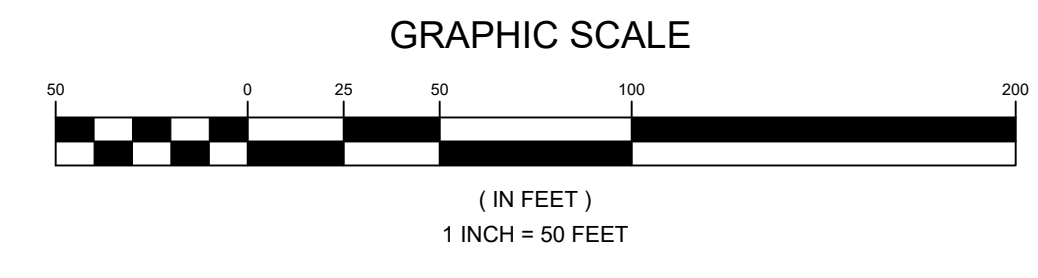
CHIEF, DIVISION OF LAND DEVELOPMENT DATE 5/20/2022

DIRECTOR DATE

NO.	DESCRIPTION	DATE

PLAN VIEW
 SCALE: 1"=50'

FREDERICK ROAD (MARYLAND ROUTE 144)
 SCENIC ROAD
 MINOR ARTERIAL
 80' R/W (ULTIMATE)

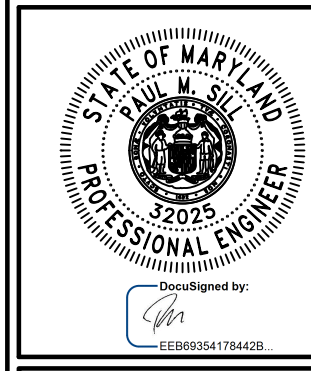


OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

SEDIMENT & EROSION CONTROL PLAN
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3 3RD ELECTION DISTRICT PARCEL 73 HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 18 of 38

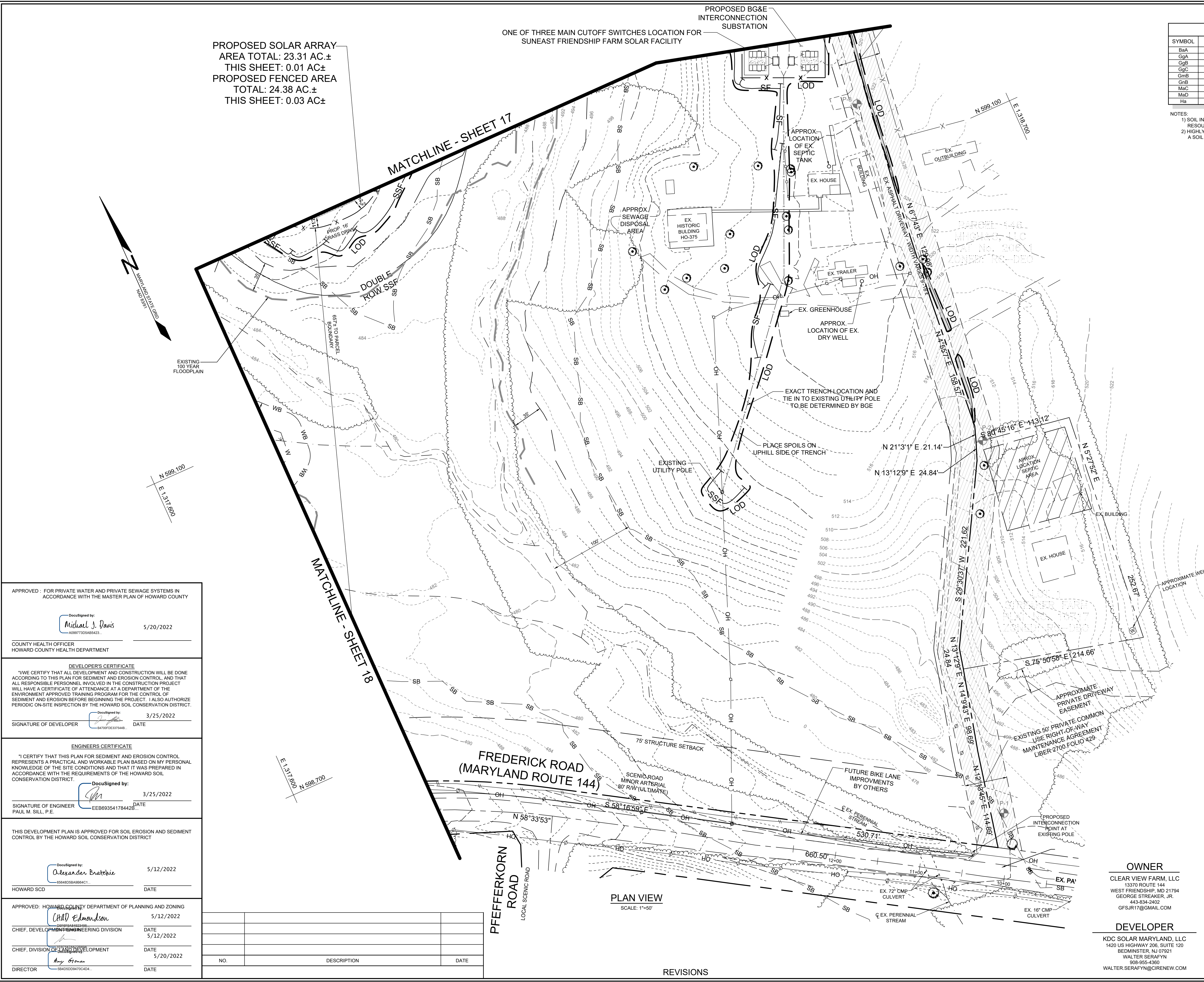
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20225, EXPIRATION DATE: JUNE 20, 2023

PROPOSED SOLAR ARRAY AREA TOTAL: 23.31 AC± THIS SHEET: 0.01 AC± PROPOSED FENCED AREA TOTAL: 24.38 AC± THIS SHEET: 0.03 AC±

PROPOSED BG&E INTERCONNECTION SUBSTATION ONE OF THREE MAIN CUTOFF SWITCHES LOCATION FOR SUNEAST FRIENDSHIP FARM SOLAR FACILITY

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 15 TO 25 PERCENT SLOPES	B	0.20
GmB	GLENEVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmC	GLENEVILLE SILT LOAMS, 8 TO 15 PERCENT SLOPES	C	0.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.24
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NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
 Michael J. Davis
 A099773D548423 5/20/2022

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

DEVELOPER'S CERTIFICATE

"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
 [Signature] 3/25/2022

SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by:
 [Signature] 3/25/2022

SIGNATURE OF ENGINEER DATE

PAUL M. SILL, P.E. EEB693541784422

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DocuSigned by:
 Alexander Erathie 5/12/2022

HOWARD SCD DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by:
 [Signature] 5/12/2022

CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

DocuSigned by:
 [Signature] 5/20/2022

CHIEF DIVISION OF LAND DEVELOPMENT DATE

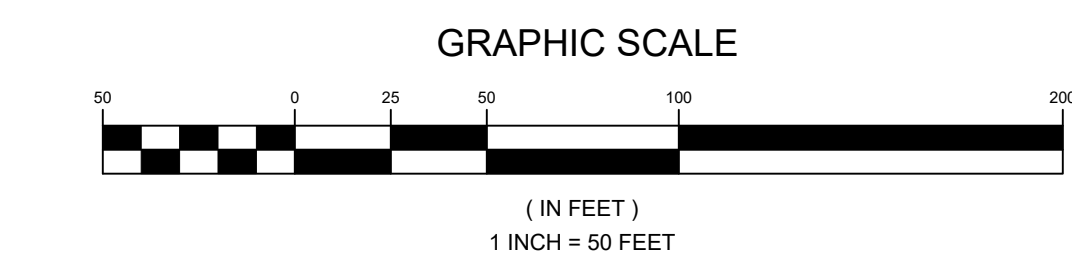
DocuSigned by:
 [Signature] 5/20/2022

DIRECTOR DATE

NO.	DESCRIPTION	DATE

PLAN VIEW SCALE: 1"=50'

REVISIONS



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
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 WALTER.SERAFYN@CI9RENEW.COM

SEDIMENT & EROSION CONTROL PLAN
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3 3RD ELECTION DISTRICT PARCEL 73 HOWARD COUNTY, MARYLAND

		DESIGN BY: PS
		DRAWN BY: TB
16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development		CHECKED BY: PS
		SCALE: AS SHOWN
DATE: MARCH 24, 2022		PROJECT #: 19-044
SHEET #: 19 of 38		

DETAIL E-1 SILT FENCE

CONSTRUCTION SPECIFICATIONS

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

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL E-3 SUPER SILT FENCE

CONSTRUCTION SPECIFICATIONS

- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

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

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL B-4-6-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION

CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOULDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDBED SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
- KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL C-1 EARTH DIKE

DIKE TYPE	A	B
a - DIKE HEIGHT	18 IN MIN. 30 IN MIN.	
b - DIKE WIDTH	24 IN MIN. 36 IN MIN.	
c - FLOW WIDTH	4 FT MIN. 6 FT MIN.	
d - FLOW DEPTH	12 IN MIN. 24 IN MIN.	

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.
- COMPACT FILL.
- CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
- STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.
- 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 SECTION B-4 VEGETATIVE STABILIZATION.
- 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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL C-8 MOUNTABLE BERM

CONSTRUCTION SPECIFICATIONS

- USE MINIMUM WIDTH OF 10 FEET TO ALLOW FOR VEHICULAR PASSAGE.
- PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE EARTH MOUND PRIOR TO PLACING STONE.
- PLACE 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE MOUNTABLE BERM.
- MAINTAIN LINE, GRADE, AND CROSS SECTION. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN SPECIFIED DIMENSIONS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL D-4-1-C ROCK OUTLET PROTECTION III

CLASS	RIPRAP THICKNESS (T)
I	19 IN
II	32 IN
III	46 IN

CONSTRUCTION SPECIFICATIONS

- RIPRAP AND STONE MUST CONFORM TO THE SPECIFIED CLASS.
- USE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, AND PROTECT FROM PUNCTURING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE TOGETHER.
- PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (1/4 TO 1/2 INCH MINIMUM STONE FOR 6 INCH MINIMUM DEPTH) AND RIPRAP TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RIPRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF RIPRAP.
- CONSTRUCT RIPRAP OUTLET TO FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. PLACE STONE FOR RIPRAP OUTLET IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE RIPRAP IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY.
- WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIDTH IS TWO TIMES THE DIAMETER OF THE OUTLET PIPE, AND EXTEND THE STONE UNDER THE OUTLET BY A MINIMUM OF 18 INCHES.
- CONSTRUCT APRON WITH 0% SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STONE SO THAT IT BLENDS IN WITH EXISTING GROUND.
- MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND RIPRAP DISLOADED RIPRAP. MAKE NECESSARY REPAIRS IMMEDIATELY.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Will Edmondson 5/12/2022

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE 5/12/2022

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE 5/20/2022

DIRECTOR

DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DocuSigned by: *Alexander Bratovic* 5/12/2022

HOWARD SCD

DATE

ENGINEERS CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by: *Paul M. Sill, P.E.* 3/25/2022

EEB693541784428

SIGNATURE OF ENGINEER PAUL M. SILL, P.E.

DATE

DEVELOPER'S CERTIFICATE

"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DocuSigned by: *Walter Serafyn* 3/25/2022

SIGNATURE OF DEVELOPER

DATE

NO.	DESCRIPTION	DATE

OWNER

CLEAR VIEW FARM, LLC

13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER

KDC SOLAR MARYLAND, LLC

1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
508-955-4360
WALTER.SERAFYN@CI9NEWS.COM

SEDIMENT AND EROSION CONTROL DETAILS

SUNEAAT CLEAR VIEW FARM SOLAR FACILITY

13370 ROUTE 144

TAX MAP 15 GRID 3 3RD ELECTION DISTRICT

PARCEL 73 HOWARD COUNTY, MARYLAND

OWNER: CLEAR VIEW FARM, LLC

DEVELOPER: KDC SOLAR MARYLAND, LLC

DESIGN BY: PS

DRAWN BY: MOB

CHECKED BY: PS

SCALE: AS SHOWN

DATE: MARCH 24, 2022

PROJECT #: 19-044

SHEET #: 20 of 38

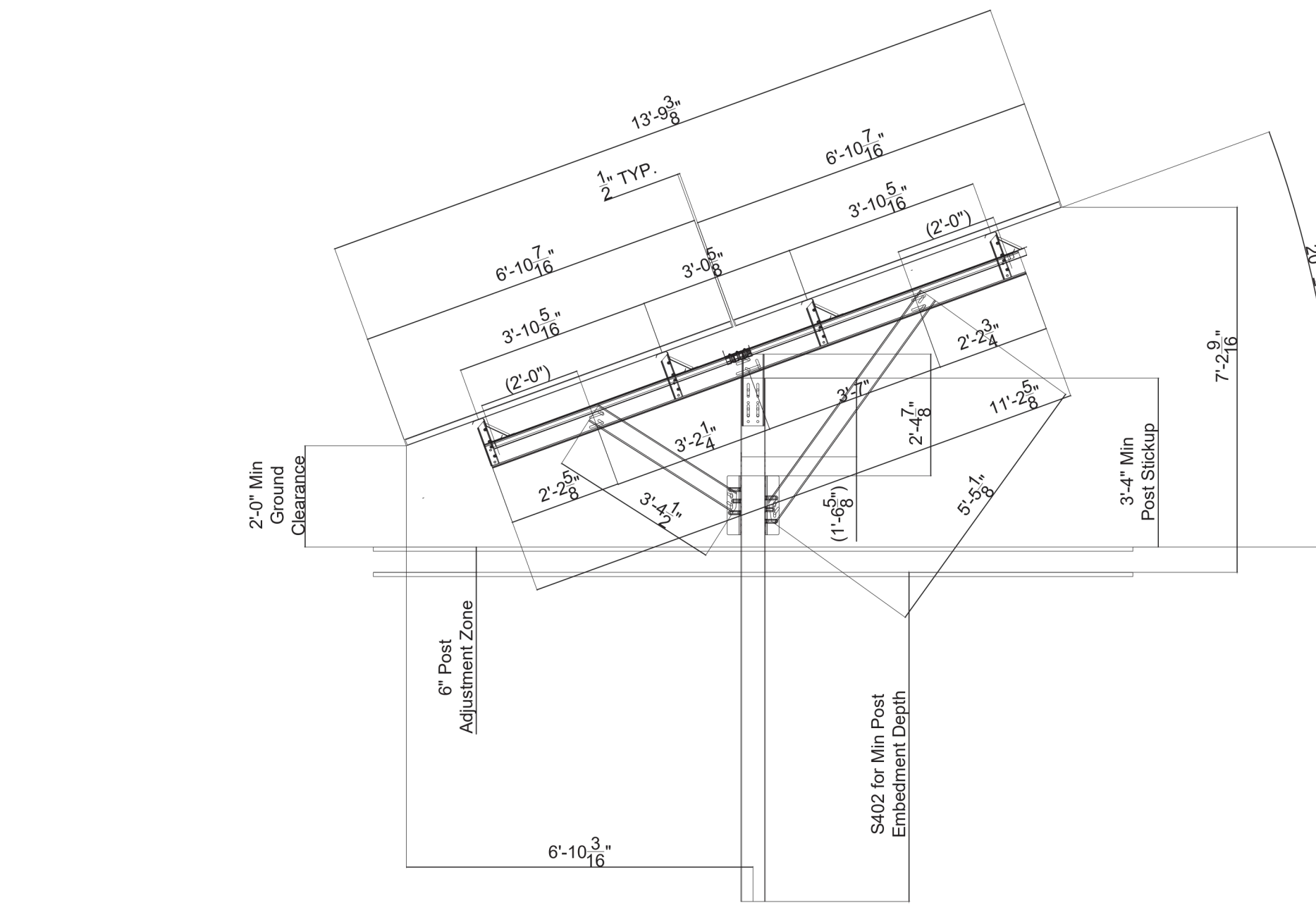
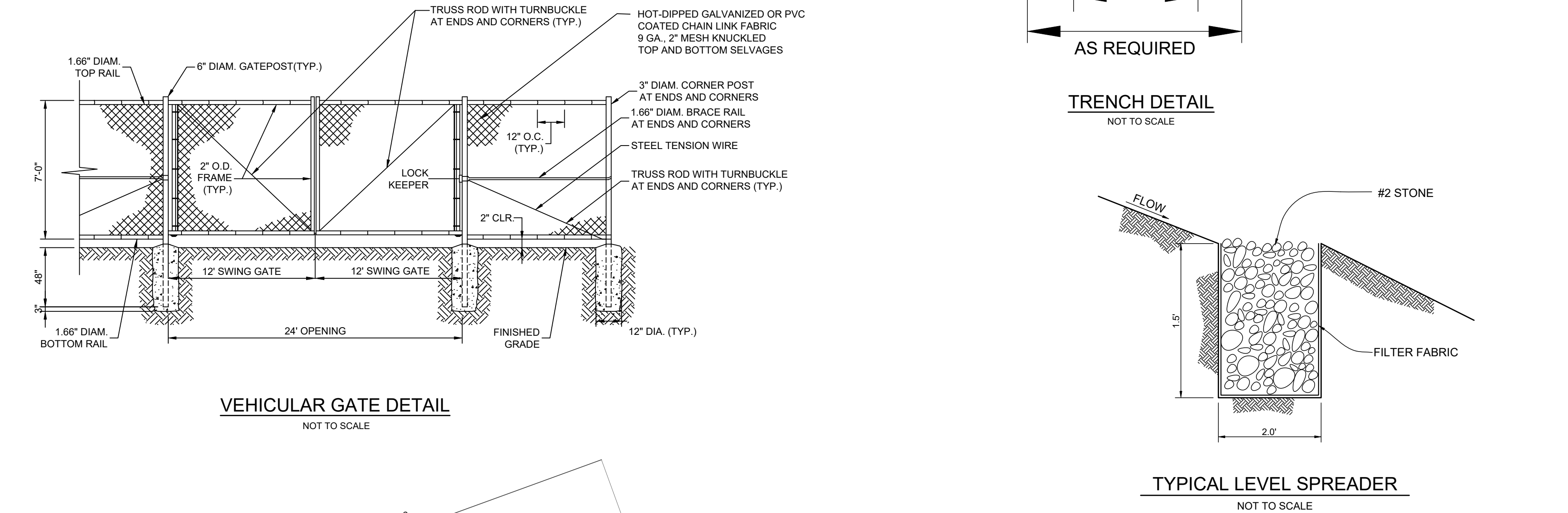
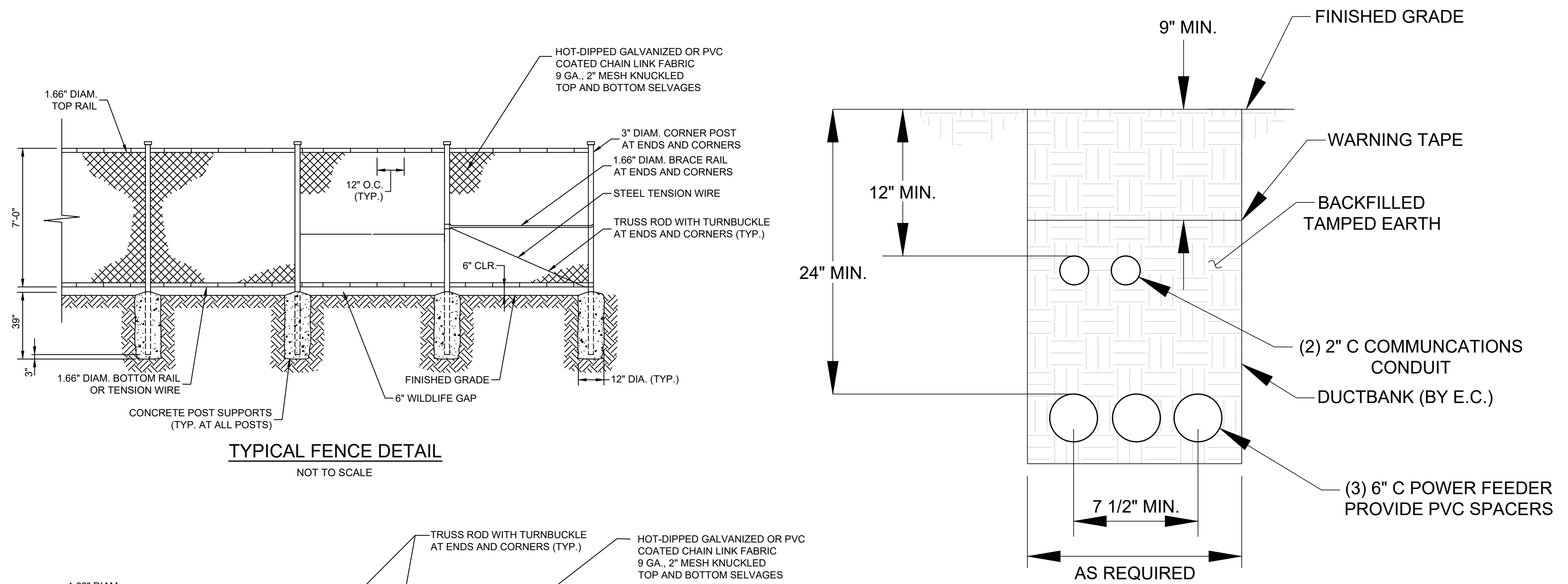
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

D. W. KOZERA, INC. Baltimore, Maryland		TEST BORING LOG		Boring No.: P-1 Contract No.: 21124.D Page: 1 of 1	
Project: Suneast Friendship Farm Solar Facility Location: 13300 Fredrick Road Catonsville, MD					
Ground Surf. El. (ft): 480.0 Date Started: 7-1-21 Date Completed: 7-1-21 Contractor: Findling, Inc. Driller: D. Pryor Rig: CME 45c Drill Method: HSA 3.25" Inspector: D. Nyigera					
GROUNDWATER OBSERVATIONS					
Date	Time	Depth	Casing	Flow	Remarks
7-1	08:30	DRY	---	---	---
7-1	10:21	DRY	---	---	---
Depth (ft)	Surf. Elev. (ft)	Blow Counts	"N" Value	Water Level	Description
0	480.0				10-in. base
1	10-1	3			clay, fill, moist, brown
2	10-3	5			SAA
3	1-2	4			SILT, moist, brown/yellowish
4	5-10-15	25			SILT, moist, light brown
Bottom of Test Boring @ 10'					

D. W. KOZERA, INC. Baltimore, Maryland		TEST BORING LOG		Boring No.: P-2 Contract No.: 21124.D Page: 1 of 1	
Project: Suneast Friendship Farm Solar Facility Location: 13300 Fredrick Road Catonsville, MD					
Ground Surf. El. (ft): 511.0 Date Started: 7-2-21 Date Completed: 7-2-21 Contractor: Findling, Inc. Driller: D. Pryor Rig: CME 45c Drill Method: HSA 3.25" Inspector: D. Nyigera					
GROUNDWATER OBSERVATIONS					
Date	Time	Depth	Casing	Flow	Remarks
7-2	08:50	DRY	---	---	---
7-2	08:20	DRY	---	---	---
Depth (ft)	Surf. Elev. (ft)	Blow Counts	"N" Value	Water Level	Description
0	511.0				2-in. asphalt 7-in. base
1	3-4-5	9			CLAY, moist, brown
2	5-6-8	13			SANDY SILT, moist, brown
3	4-4-8	10			SANDY SILT, moist, brown/reddish
4	3-5-5	14			SANDY SILT, moist, brown/reddish
5	10-10-11	23			SANDY SILT, moist, brown/reddish
Bottom of Test Boring @ 10'					

D. W. KOZERA, INC. Baltimore, Maryland		TEST BORING LOG		Boring No.: P-3 Contract No.: 21124.D Page: 1 of 1	
Project: Suneast Friendship Farm Solar Facility Location: 13300 Fredrick Road Catonsville, MD					
Ground Surf. El. (ft): 516.0 Date Started: 7-2-21 Date Completed: 7-2-21 Contractor: Findling, Inc. Driller: D. Pryor Rig: CME 45c Drill Method: HSA 3.25" Inspector: D. Nyigera					
GROUNDWATER OBSERVATIONS					
Date	Time	Depth	Casing	Flow	Remarks
7-2	09:30	DRY	---	---	---
7-2	08:12	DRY	---	---	---
Depth (ft)	Surf. Elev. (ft)	Blow Counts	"N" Value	Water Level	Description
0	516.0				2-in. asphalt 4-in. base
1	4-4-4-4	8			CLAY, moist, brown
2	2-2-4-4	6			SILT, moist, brown
3	4-5-5-5	10			SILT with mica, moist, brown
4	3-8-11-12	20			SILT, moist, brown/yellow
5	3-8-11-14	20			SAA
Bottom of Test Boring @ 10'					

D. W. KOZERA, INC. Baltimore, Maryland		TEST BORING LOG		Boring No.: P-4 Contract No.: 21124.D Page: 1 of 1	
Project: Suneast Friendship Farm Solar Facility Location: 13300 Fredrick Road Catonsville, MD					
Ground Surf. El. (ft): 517.0 Date Started: 7-2-21 Date Completed: 7-2-21 Contractor: Findling, Inc. Driller: D. Pryor Rig: CME 45c Drill Method: HSA 3.25" Inspector: D. Nyigera					
GROUNDWATER OBSERVATIONS					
Date	Time	Depth	Casing	Flow	Remarks
7-2	09:00	DRY	---	---	---
7-2	10:35	DRY	---	---	---
Depth (ft)	Surf. Elev. (ft)	Blow Counts	"N" Value	Water Level	Description
0	517.0				3-in. gravel base
1	6-7-8	14			SILT, sand, fill, moist, brown
2	3-4-5-5	9			SILT, moist, brown/reddish
3	4-5-6	11			SILT with a trace amount of silty sand, moist, brown
4	4-5-6	9			SILT, moist, brown/yellow
Bottom of Test Boring @ 10'					



- NOTES:**
1. PROVIDE EDGE GUARD OR ADEQUATE PROTECTION FOR PV WIRES AND SHARP EDGES OF RACKING SYSTEM.
 2. PROVIDE DRIP LOOP AND SUPPORT.
 3. DETAIL FOR REFERENCE ONLY.
 4. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
608-355-4360
WALTER.SERAFYN@CIRENEW.COM

SITE DETAILS AND BORING LOGS
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 73
HOWARD COUNTY, MARYLAND

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
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DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
608-355-4360
WALTER.SERAFYN@CIRENEW.COM

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 22 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

5/12/2022

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 5/12/2022

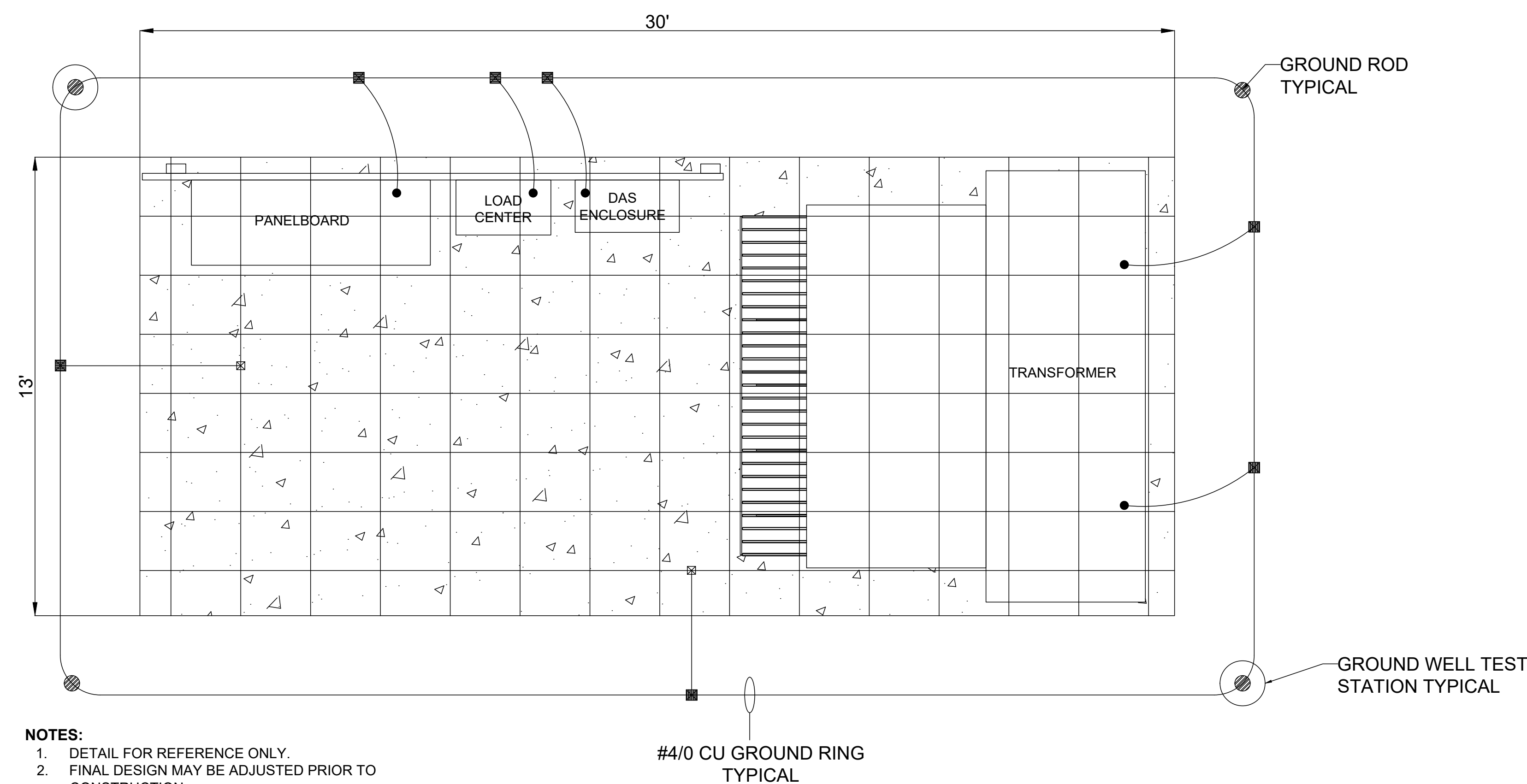
CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 5/20/2022

DIRECTOR

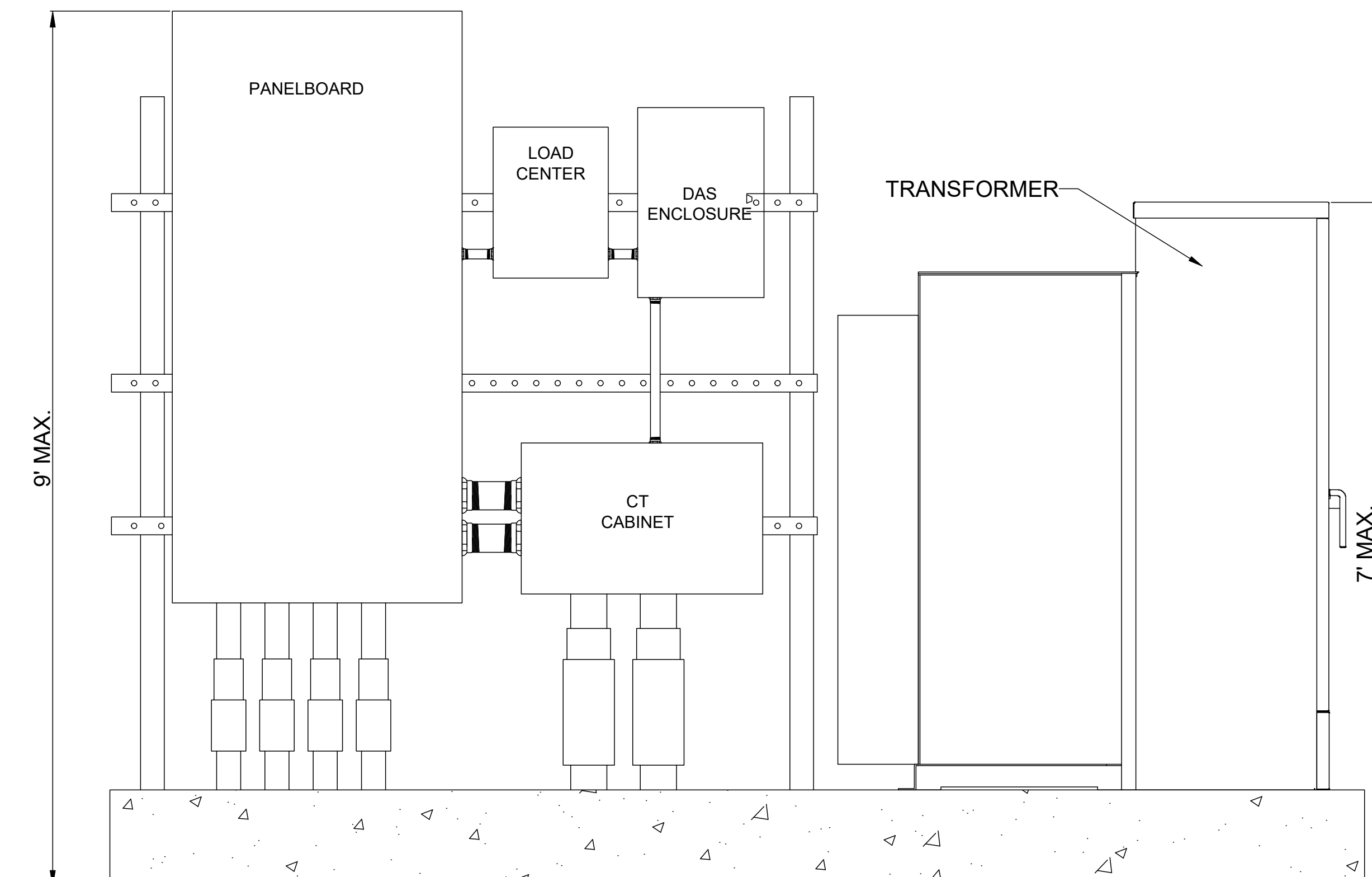
NO.	DESCRIPTION	DATE

REVISIONS



NOTES:
 1. DETAIL FOR REFERENCE ONLY.
 2. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

EQUIPEMENT PAD PLAN VIEW
 NOT TO SCALE



NOTES:
 1. DETAIL FOR REFERENCE ONLY.
 2. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

EQUIPEMENT PAD ELEVATION VIEW
 NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 5/12/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 5/12/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT
 5/20/2022
 DIRECTOR

NO.	DESCRIPTION	DATE

REVISIONS

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4360
 WALTER.SERAFYN@CIRENEW.COM

SITE DETAILS
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 HOWARD COUNTY, MARYLAND

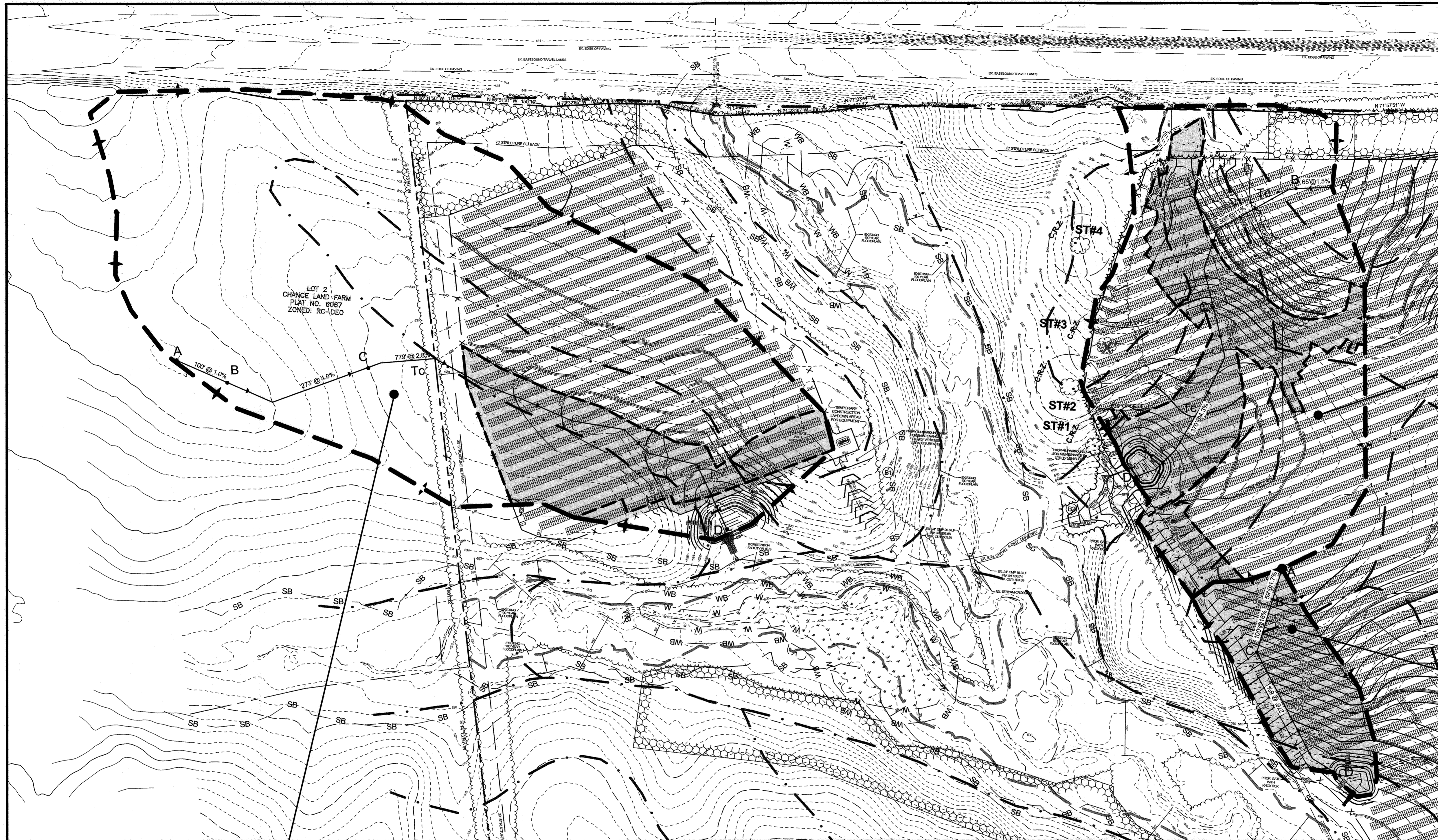
OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

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 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4360
 WALTER.SERAFYN@CIRENEW.COM

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 23 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



LEGEND

EXISTING CONTOUR	---	382
PROPOSED CONTOUR	---	382
PROPOSED SPOT ELEVATION	+	82.53
EXISTING TREELINE	~	
PROPOSED TREELINE	~	
EXISTING SOILS	---	BaA MaC
WETLANDS	W	W
WETLAND BUFFER	WB	WB
EXISTING FENCE	X	X
EXISTING 100-YEAR FLOODPLAIN	---	
EXISTING SPECIMEN TREE	ST#4	
EXISTING SPECIMEN TREE TO BE REMOVED	X	ST#4
EXISTING SPECIMEN TREE WITH CRITICAL ROOT ZONE	ST#4	
PROPOSED DRAINAGE AREA	---	
FOREST CONSERVATION AREA	---	
IMPERVIOUS AREA TREATED BY BIORETENTION	---	

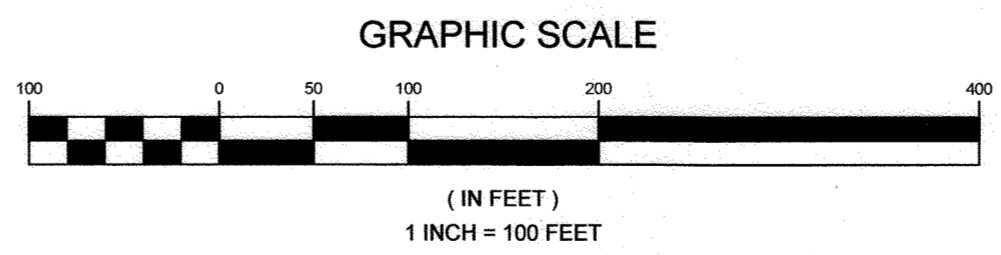
A = 8.22 Ac. Z = RC-DEO
 Pe = 1.0" P = 1%
 'B' & 'D' SOILS

A = 1.59 Ac. Z = RC-DEO
 Pe = 1.0" P = 1%
 'B' SOIL

A = 15.46 Ac. Z = RC-DEO
 Pe = 1.0" P = 1%
 'B' & 'C' SOILS

STORMWATER MANAGEMENT DRAINAGE AREA MAP

SCALE: 1"=100'



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Chad Robinson 4/10/24
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Robinson 4/10/24
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
James E. Eubanks 4/23/24
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

NO.	DESCRIPTION	DATE
2	REVISE THE DRAINAGE AREA TO BIO #1 IN THE PLAN VIEW	03/12/2024
1	REVISE THE GRADING AT THE OUTFALL OF BIO #1	06/02/2023

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

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 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-856-4390
 WALTER.SERAFYN@CIRENEW.COM

REVISED STORMWATER MANAGEMENT BIORETENTION FACILITY DRAINAGE AREA MAP
SUNEAUT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144
 TAX MAP 15 GRID 3 PARCEL 73
 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

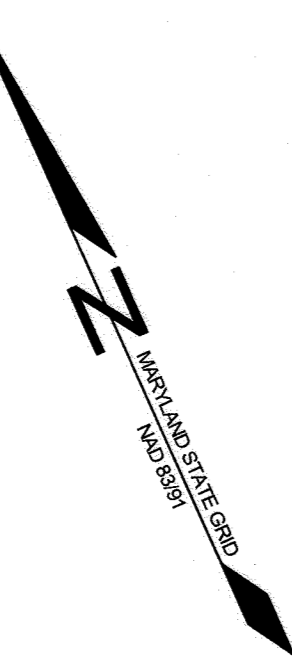
SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: JB
 DRAWN BY: JB
 CHECKED BY: JB
 SCALE: AS SHOWN
 DATE: MARCH 11, 2024
 PROJECT #: 19-044
 SHEET #: 24 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2029

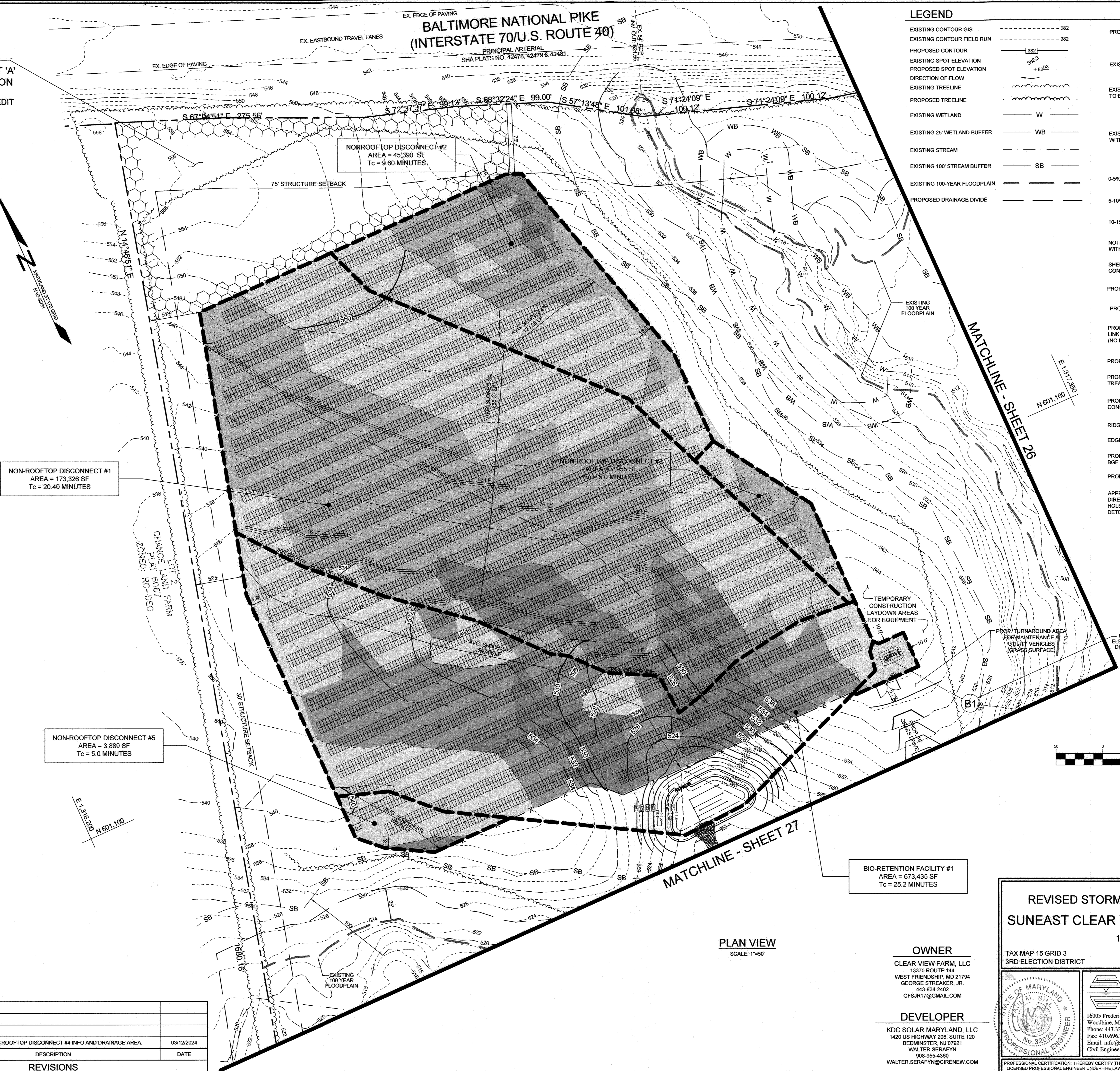
EXISTING FOREST
CONSERVATION EASEMENT 'A'
RETENTION/REFORESTATION
TOTAL 60,548.4 SF 1.39 AC ±
0.29 AC. RETENTION, 0.14 AC. CREDIT
0.5:1 RETENTION CREDIT
1.1 AC. REFORESTATION
1:1 PLANTING CREDIT
TOTAL CREDIT 1.24 ACRES
PLAT NO. 26502

N 601,800
E 1,316,390



BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)

PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481



LEGEND	
EXISTING CONTOUR GIS	--- 382
EXISTING CONTOUR FIELD RUN	--- 382
PROPOSED CONTOUR	--- 382
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	+82.53
DIRECTION OF FLOW	→
EXISTING TREELINE	---
PROPOSED TREELINE	---
EXISTING WETLAND	W
EXISTING 25' WETLAND BUFFER	WB
EXISTING STREAM	---
EXISTING 100' STREAM BUFFER	SB
EXISTING 100-YEAR FLOODPLAIN	---
PROPOSED DRAINAGE DIVIDE	---
PROPOSED 16' GRASS DRIVE	---
EXISTING SPECIMEN TREE	ST#4
EXISTING SPECIMEN TREE TO BE REMOVED	X
EXISTING SPECIMEN TREE WITH CRITICAL ROOT ZONE	C.R.Z.
0-5% SLOPES	Light gray shading
5-10% SLOPES	Medium gray shading
10-15% SLOPES	Dark gray shading
NOTE: SLOPES SHOWN ARE THOSE CONTAINED WITHIN THE SOLAR ARRAY USE AREA.	
SHEETFLOW TO CONSERVATION AREA (N-3)	Diagonal hatching
PROPOSED SOLAR PANELS	Grid pattern
PROPOSED TRANSFORMER	Transformer symbol
PROPOSED 7' HIGH CHAIN LINK SECURITY FENCE (NO BARBED WIRE)	X - X
PROPOSED LEVEL SPREADER	58 LF
PROPOSED NON-ROOFTOP DISCONNECT TREATMENT AREA (N-2)	Stippled pattern
PROPOSED SHEET FLOW TO CONSERVATION AREA TREATMENT (N-3)	Diagonal hatching
RIDGELINE OFFSETS (150' & 300')	--- 150' --- 300'
EDGE OF CHANNEL	---
PROPOSED UNDERGROUND BGE ELECTRIC WIRE	E
PROPOSED PERMANENT SWALE	⇒ ⇒ ⇒
APPROXIMATE LOCATION OF DIRECTIONAL JACK AND BORE HOLES B1-B4 (LOCATION TO BE DETERMINED IN THE FIELD)	(B1)

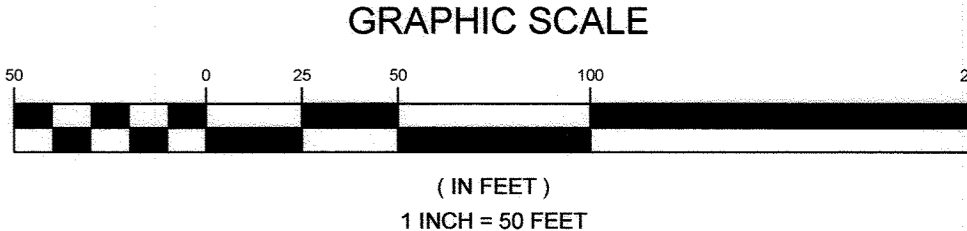
NON-ROOFTOP DISCONNECT #1
AREA = 173,326 SF
Tc = 20.40 MINUTES

NONROOFTOP DISCONNECT #2
AREA = 45,390 SF
Tc = 9.60 MINUTES

NON-ROOFTOP DISCONNECT #3
AREA = 7,355 SF
Tc = 5.0 MINUTES

NON-ROOFTOP DISCONNECT #5
AREA = 3,899 SF
Tc = 5.0 MINUTES

BIO-RETENTION FACILITY #1
AREA = 873,435 SF
Tc = 25.2 MINUTES



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
[Signature] 4/12/24
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 4/23/24
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 4/23/24
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

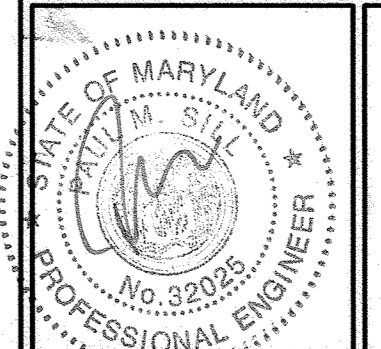
NO.	DESCRIPTION	DATE
1	REMOVE NON-ROOFTOP DISCONNECT #4 INFO AND DRAINAGE AREA.	03/12/2024

PLAN VIEW
SCALE: 1"=50'

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2422
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
908-955-4380
WALTER.SERAFYN@CIRENEW.COM

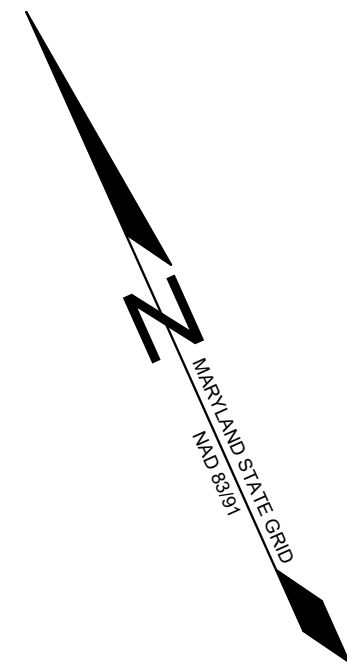
REVISED STORMWATER MANAGEMENT PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 73
HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

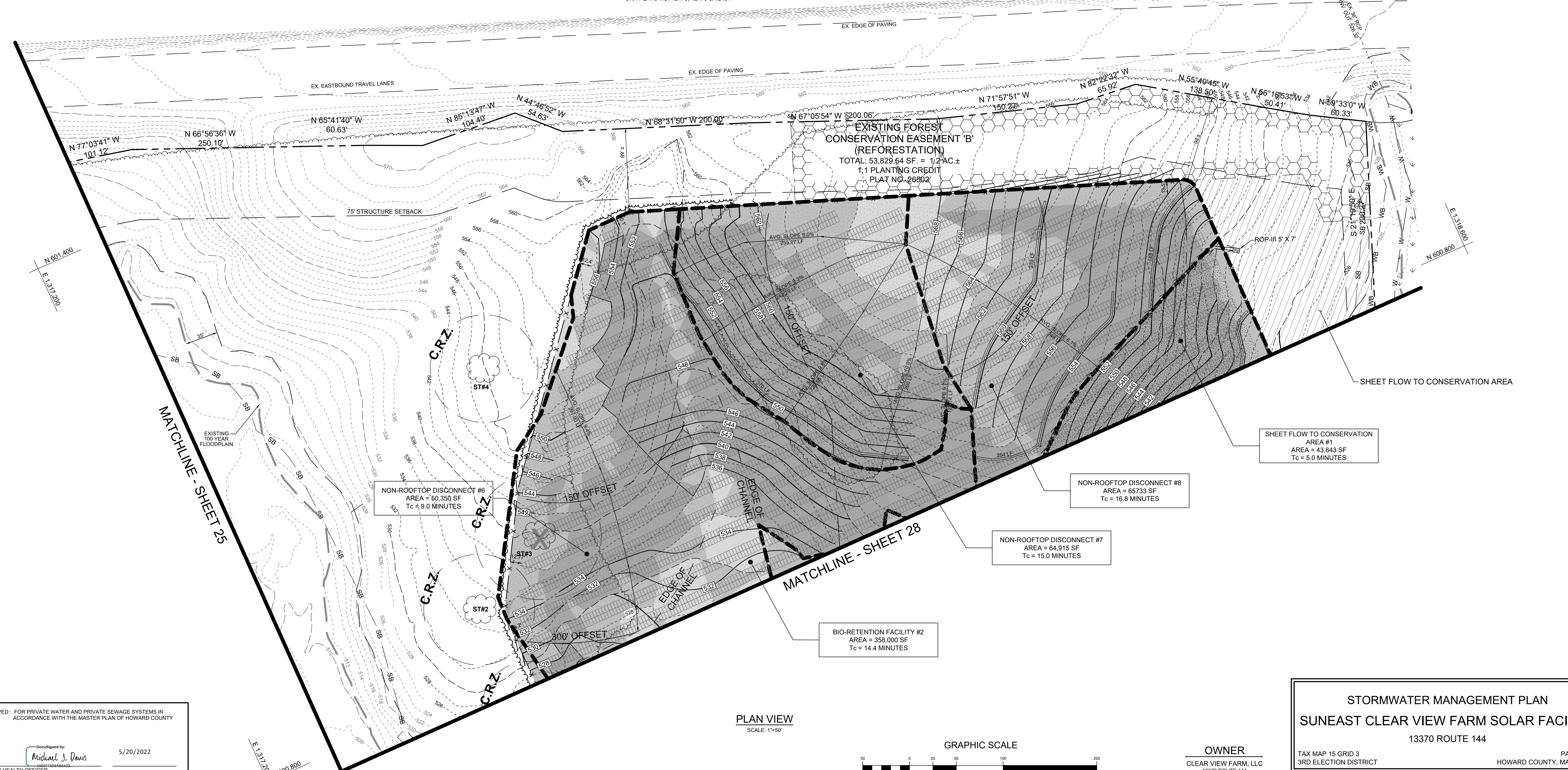
DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 11, 2024
PROJECT #: 19-044
SHEET #: 25 OF 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2029



**BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)**

PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

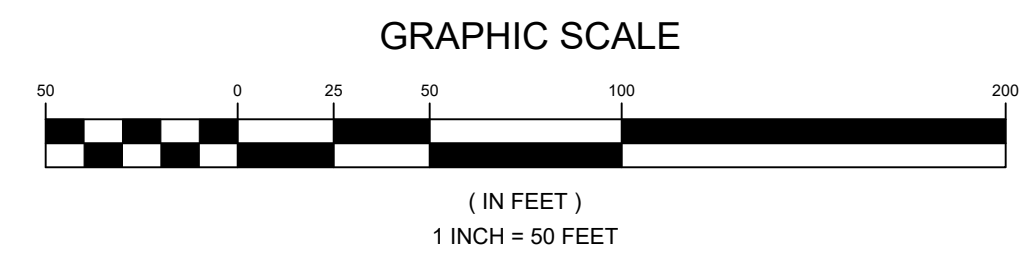
DocuSigned by:
Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Willie Edmondson 5/12/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gowan 5/20/2022
DIRECTOR

NO.	DESCRIPTION	DATE

PLAN VIEW
SCALE: 1"=50'



OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
908-955-4360
WALTER.SERAFYN@CIRENEW.COM

STORMWATER MANAGEMENT PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

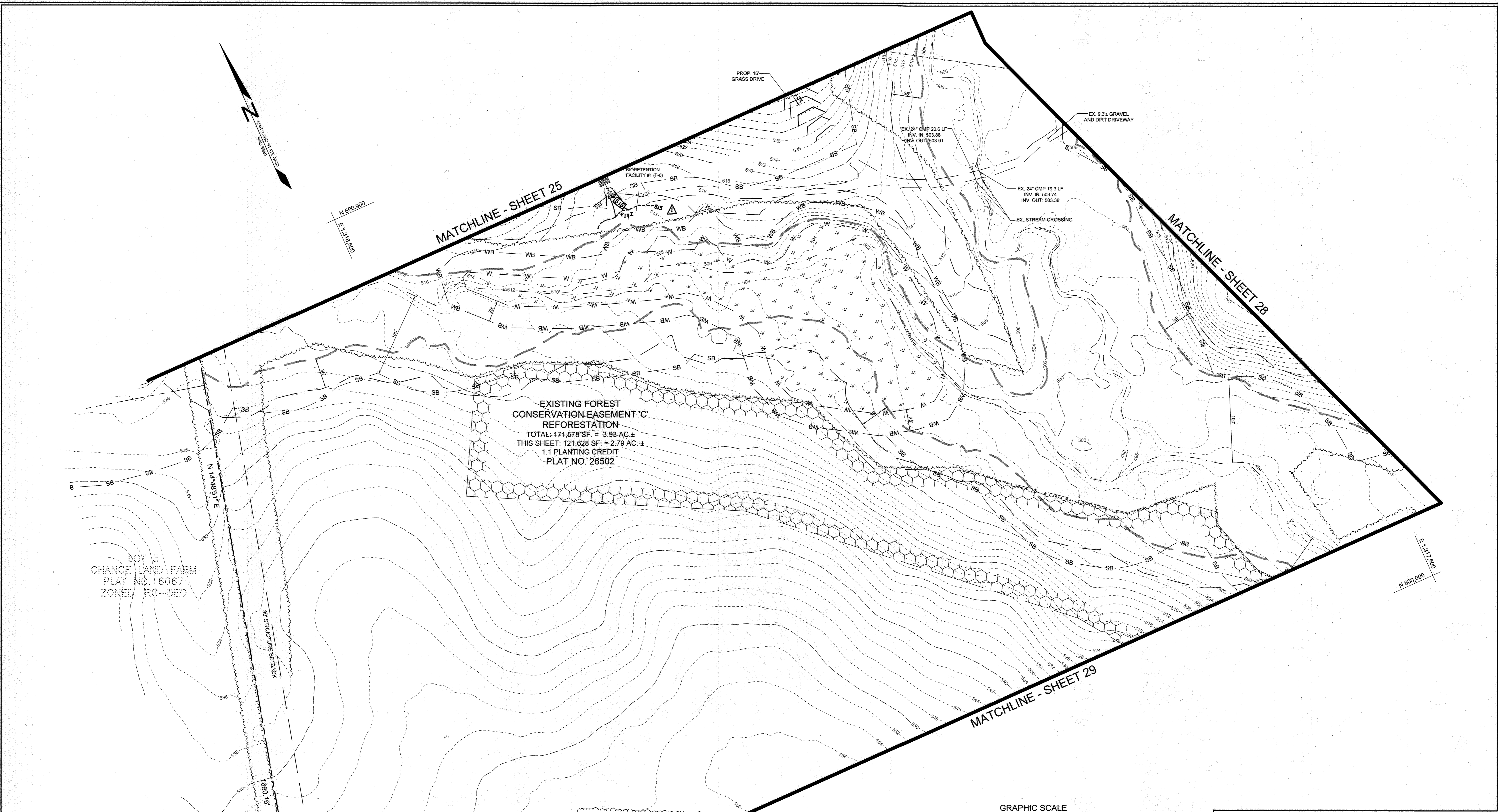
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 73
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 26 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



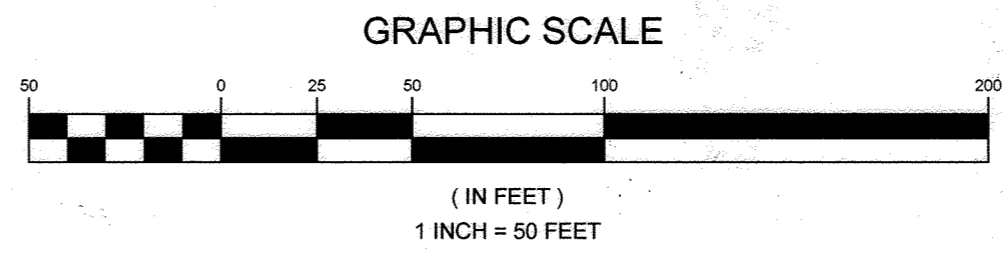
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Designed by: Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chris Edmondson 5/12/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 5/12/2022

CHIEF, DIVISION OF LAND DEVELOPMENT
Angy Goman 5/20/2022
 DIRECTOR
 DATE

LOT 3
 CHANCE LAND FARM
 PLAT NO. 6067
 ZONED: RC-DEO



PLAN VIEW
 SCALE: 1"=50'

NO.	DESCRIPTION	DATE
I	REVISE THE GRADING AT THE OUTLET OF BR#1	04/02/2023

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFS.JR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07821
 WALTER SERAFYN
 908-955-4360
 WALTER.SERAFYN@CIENRENEW.COM

STORMWATER MANAGEMENT PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

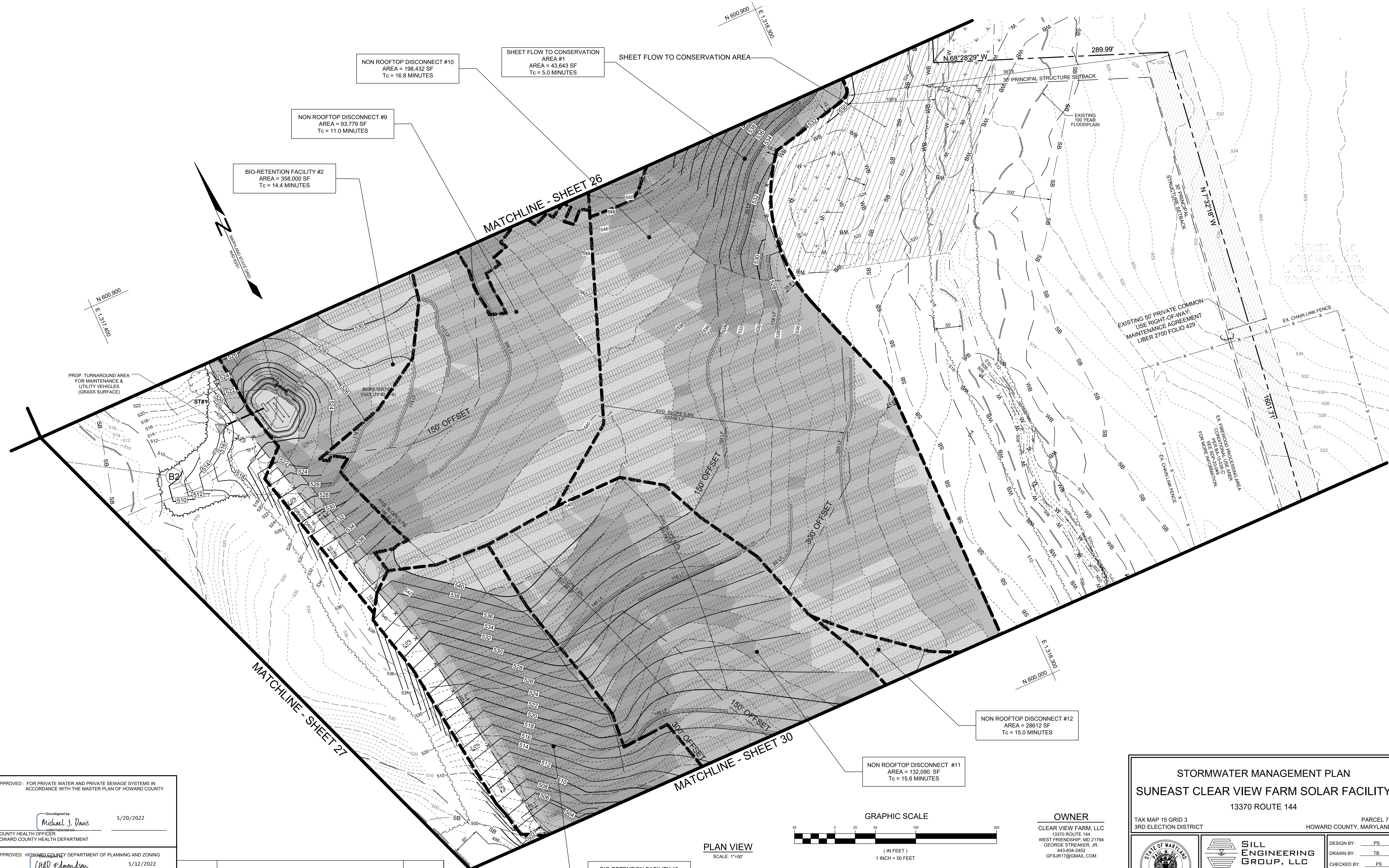
PARCEL 73
 HOWARD COUNTY, MARYLAND

WALTER SERAFYN
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

SILL ENGINEERING GROUP, LLC

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 27 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 30, 2023.



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

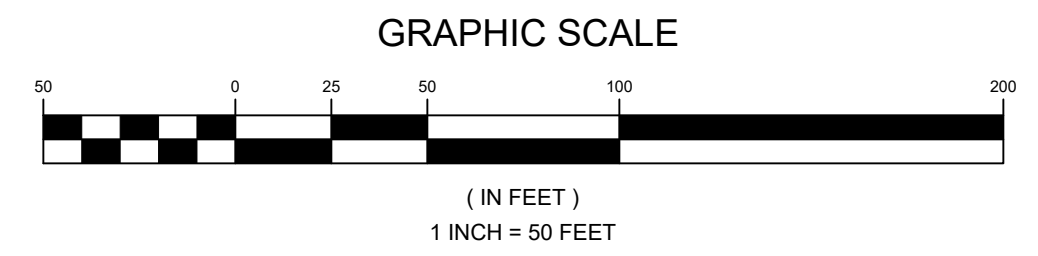
DocuSigned by:
Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Will Edmondson 5/12/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gowan 5/20/2022
 DIRECTOR

NO.	DESCRIPTION	DATE

PLAN VIEW
 SCALE: 1"=50'



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

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 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

STORMWATER MANAGEMENT PLAN
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 HOWARD COUNTY, MARYLAND

DocuSigned by:
Will Edmondson 5/20/2022

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 28 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



EXISTING FOREST
CONSERVATION EASEMENT 'C'
REFORESTATION
TOTAL: 171,578 SF. = 3.93 AC. ±
THIS SHEET: 49,950 SF. = 1.15 AC. ±
1:1 PLANTING CREDIT
PLAT NO. 26502

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

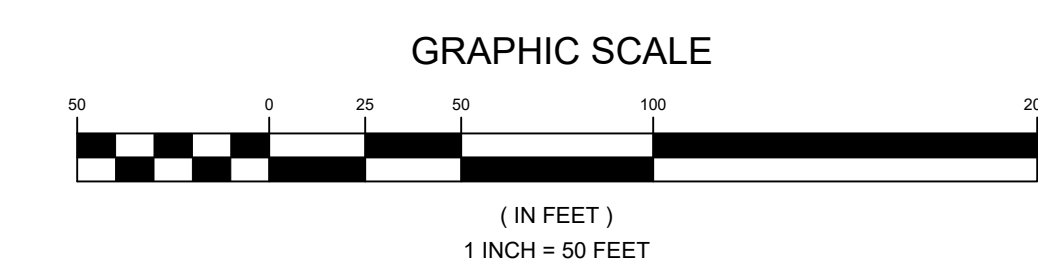
DocuSigned by:
Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Edmondson 5/12/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gosman 5/20/2022
DIRECTOR

NO.	DESCRIPTION	DATE

PLAN VIEW
SCALE: 1"=50'



OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
443-834-2402
GFSJR17@GMAIL.COM

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STORMWATER MANAGEMENT PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

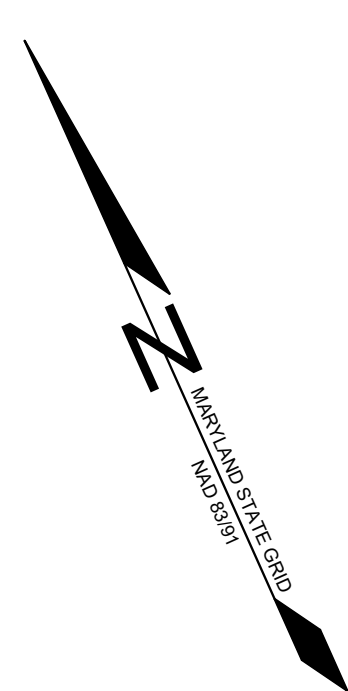
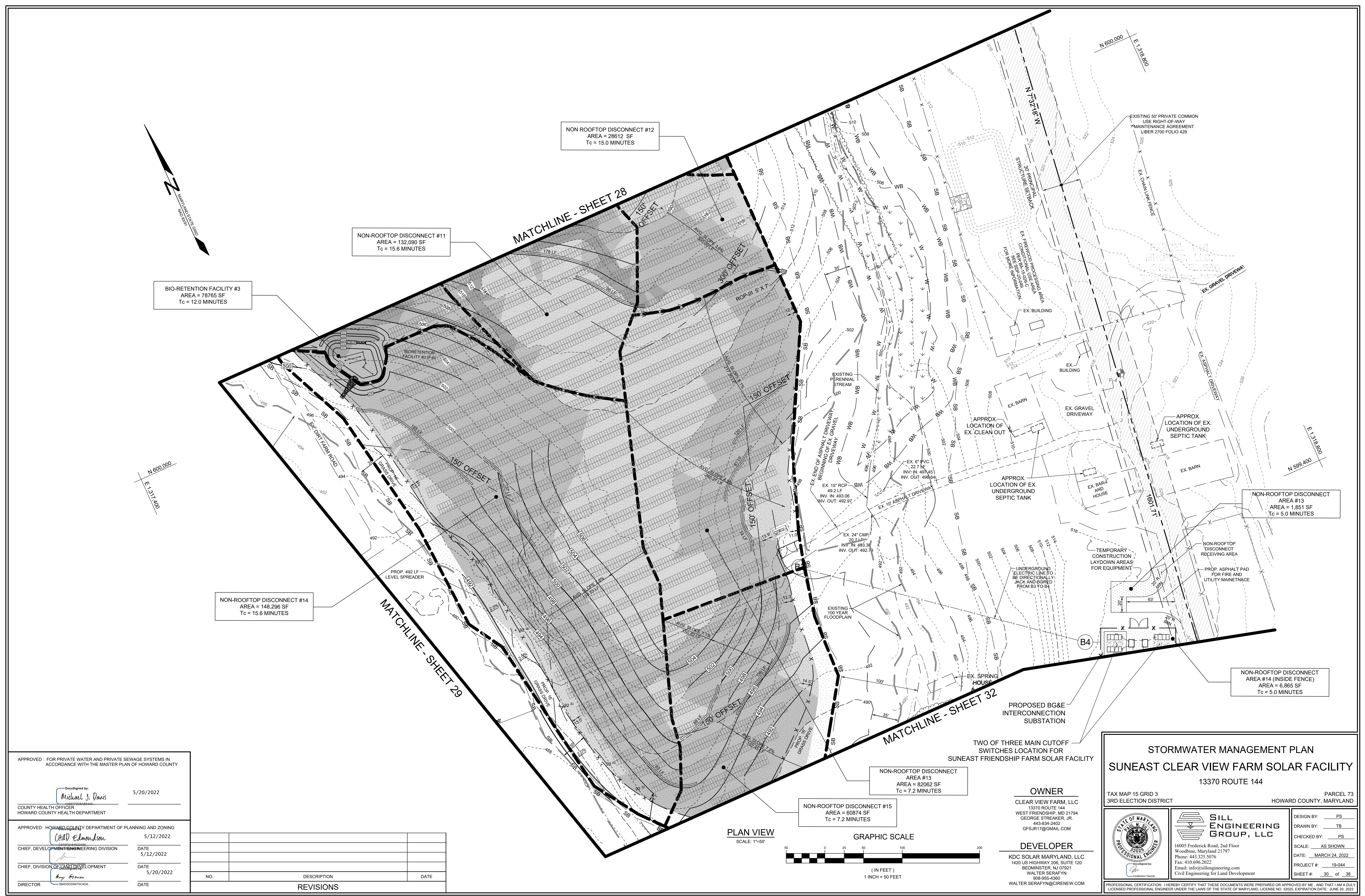
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 73
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 29 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



BIO-RETENTION FACILITY #3
AREA = 78765 SF
Tc = 12.0 MINUTES

NON-ROOFTOP DISCONNECT #11
AREA = 132,090 SF
Tc = 15.6 MINUTES

NON-ROOFTOP DISCONNECT #12
AREA = 28612 SF
Tc = 15.0 MINUTES

NON-ROOFTOP DISCONNECT #14
AREA = 148,296 SF
Tc = 15.6 MINUTES

NON-ROOFTOP DISCONNECT AREA #13
AREA = 1,851 SF
Tc = 5.0 MINUTES

NON-ROOFTOP DISCONNECT AREA #14 (INSIDE FENCE)
AREA = 6,865 SF
Tc = 5.0 MINUTES

NON-ROOFTOP DISCONNECT AREA #13
AREA = 82062 SF
Tc = 7.2 MINUTES

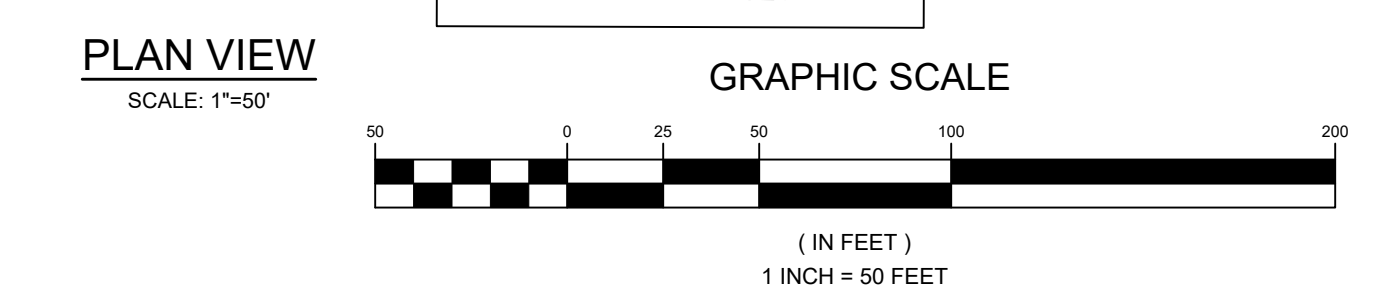
NON-ROOFTOP DISCONNECT #15
AREA = 60874 SF
Tc = 7.2 MINUTES

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Edmondson 5/12/2022
CHIEF, DEVELOPMENT AND ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gosan 5/20/2022
DIRECTOR

NO.	DESCRIPTION	DATE



OWNER
CLEAR VIEW FARM, LLC
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WEST FRIENDSHIP, MD 21794
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
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BEDMINSTER, NJ 07921
WALTER SERAFYN
608-355-4260
WALTER.SERAFYN@CIRENEW.COM

STORMWATER MANAGEMENT PLAN
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

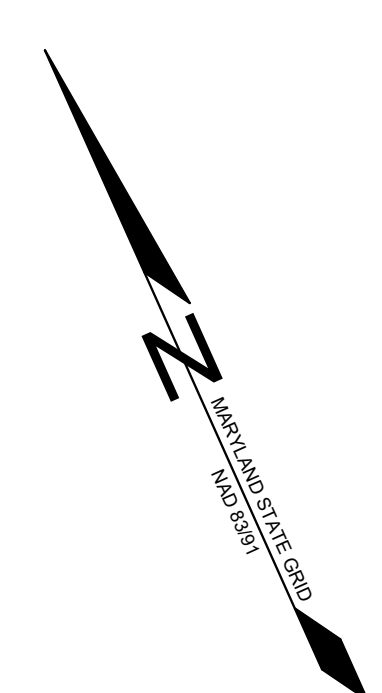
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 73
HOWARD COUNTY, MARYLAND

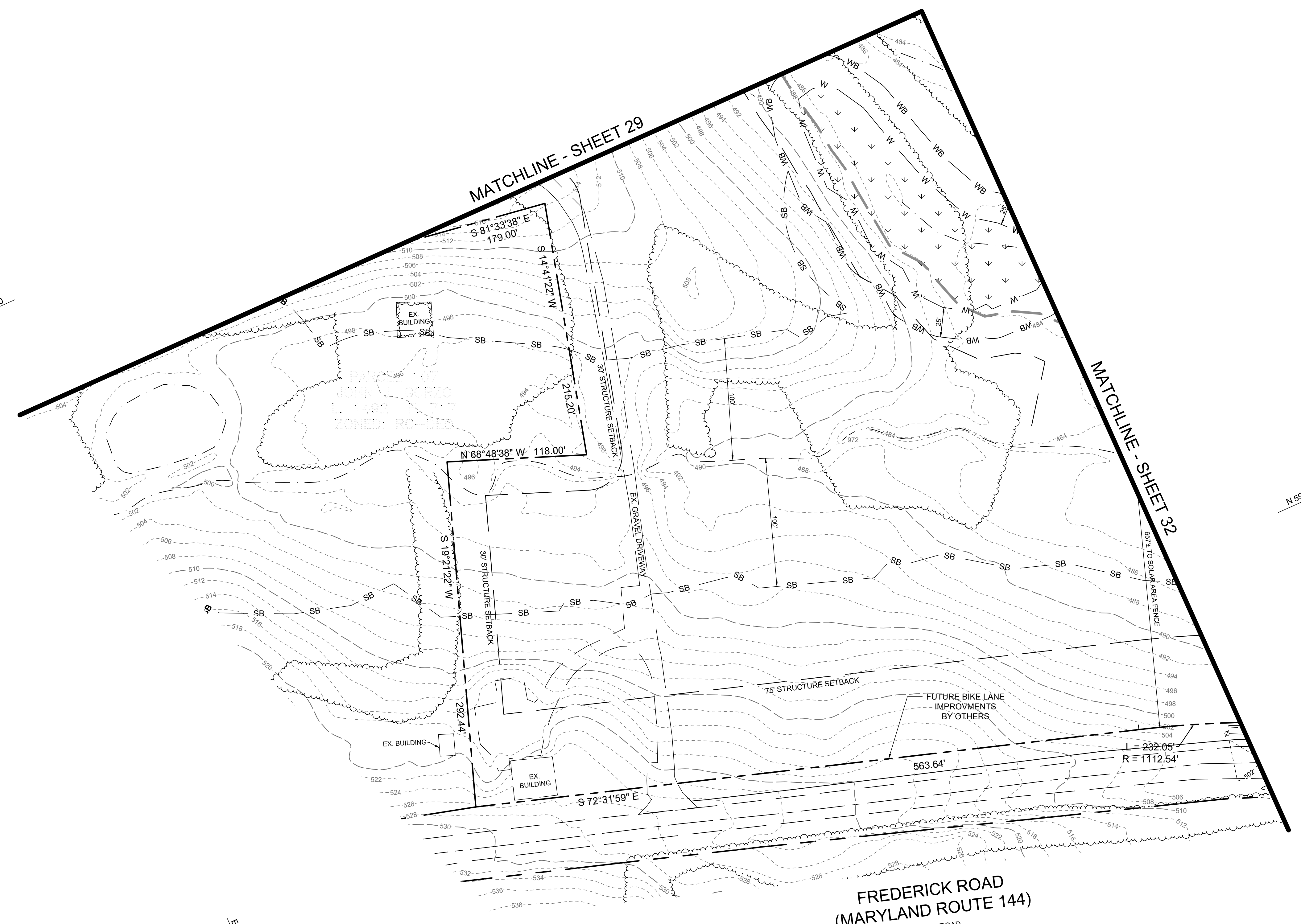
SILL ENGINEERING GROUP, LLC
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Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 30 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

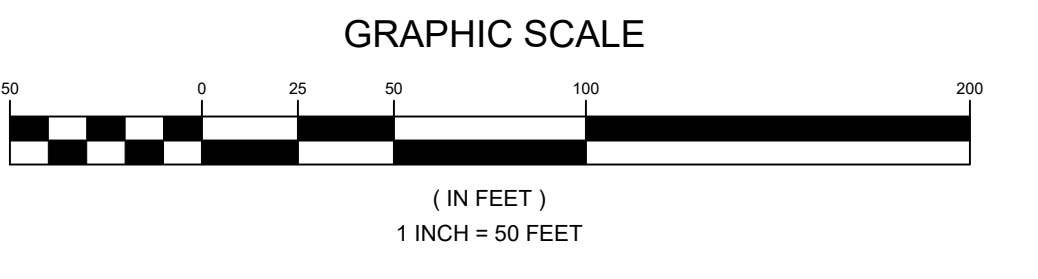


N 599,400
E 1,316,900



N 598,800
E 1,317,900

PLAN VIEW
SCALE: 1"=50'



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Will Edmondson 5/12/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Goman 5/20/2022
DIRECTOR

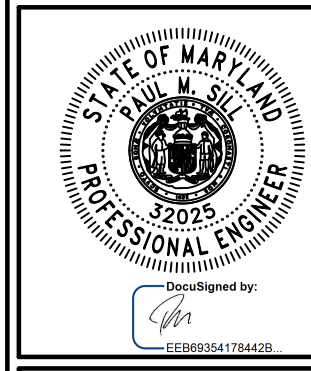
NO.	DESCRIPTION	DATE

REVISIONS

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
908-955-4260
WALTER.SERAFYN@CIRENEW.COM

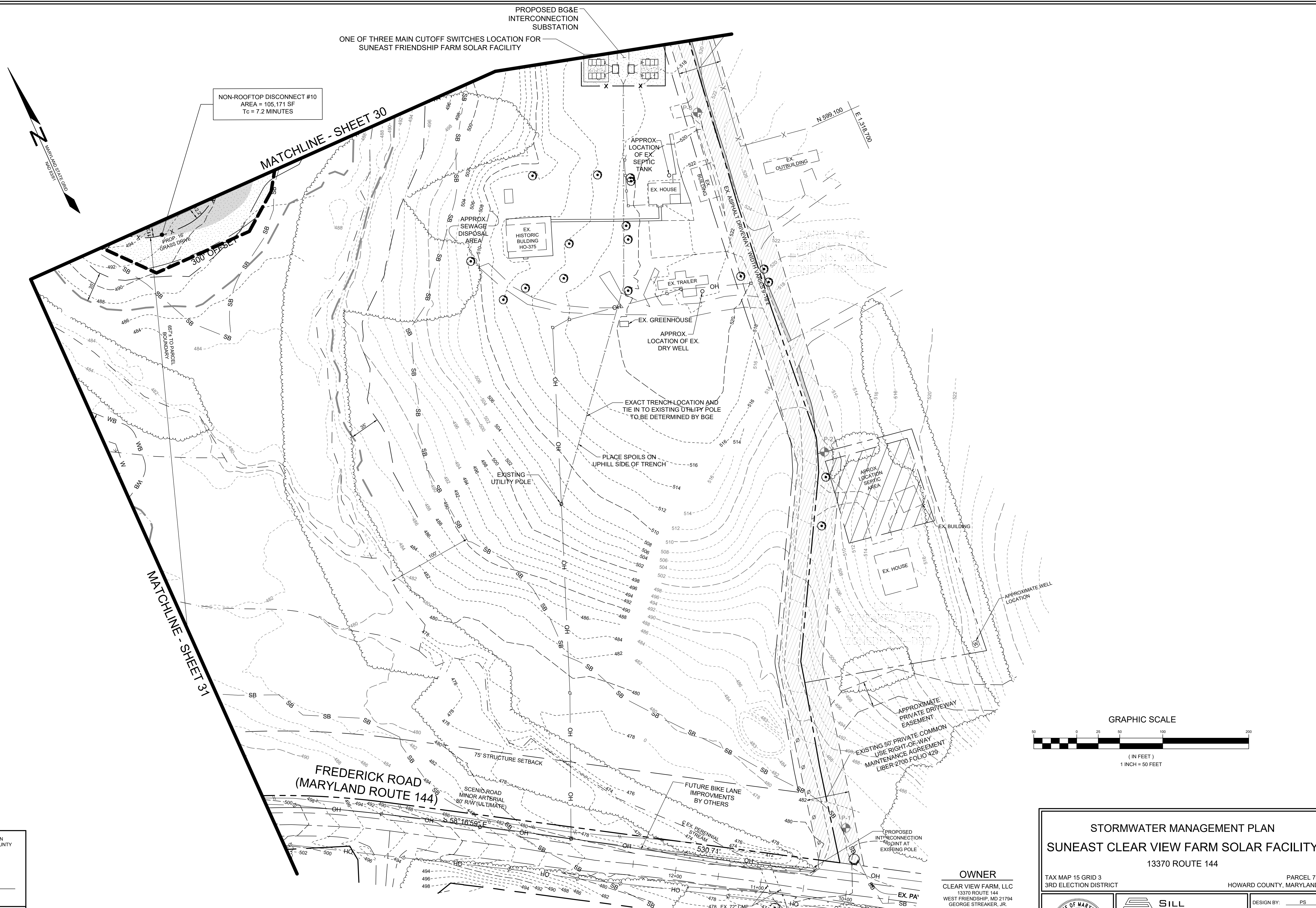
STORMWATER MANAGEMENT PLAN
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 73
HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 31 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20225, EXPIRATION DATE: JUNE 20, 2023

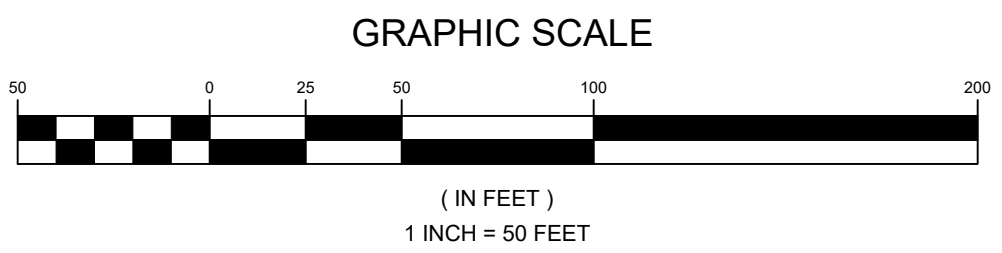


NON-ROOFTOP DISCONNECT #10
 AREA = 105,171 SF
 Tc = 7.2 MINUTES

PROPOSED BG&E INTERCONNECTION SUBSTATION
 ONE OF THREE MAIN CUTOFF SWITCHES LOCATION FOR SUNEAST FRIENDSHIP FARM SOLAR FACILITY

MATCHLINE - SHEET 30

MATCHLINE - SHEET 31



PLAN VIEW
 SCALE: 1"=50'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
Michael J. Davis 5/20/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chad Edmondson 5/12/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT
Amy Gowan 5/20/2022
 DIRECTOR

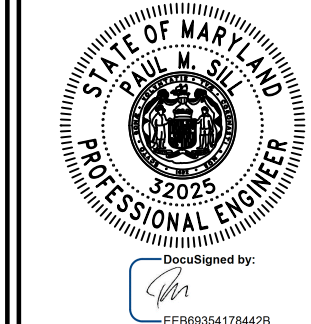
NO.	DESCRIPTION	DATE

REVISIONS

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
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 WALTER SERAFYN
 908-955-4260
 WALTER.SERAFYN@CIRENEW.COM

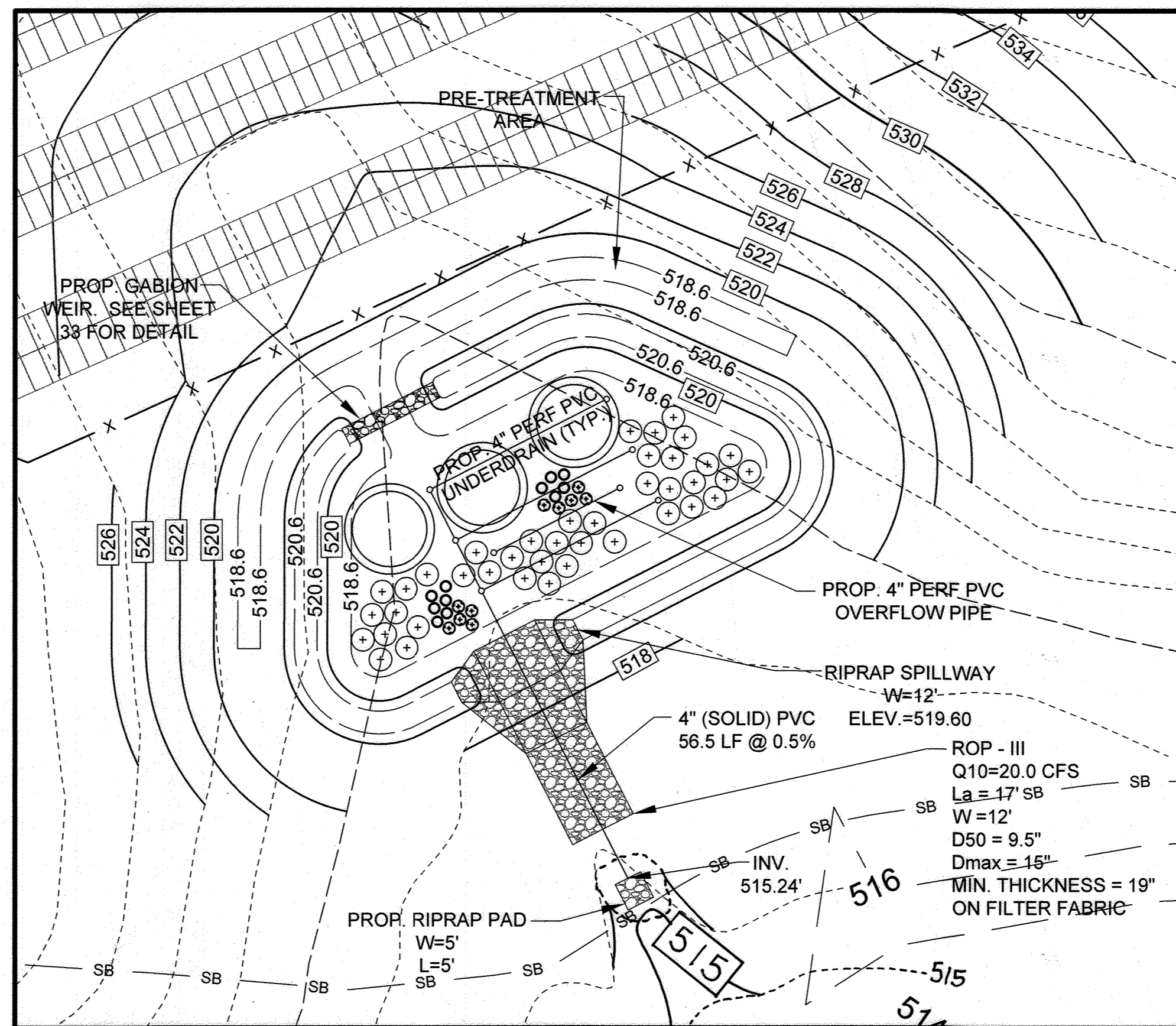
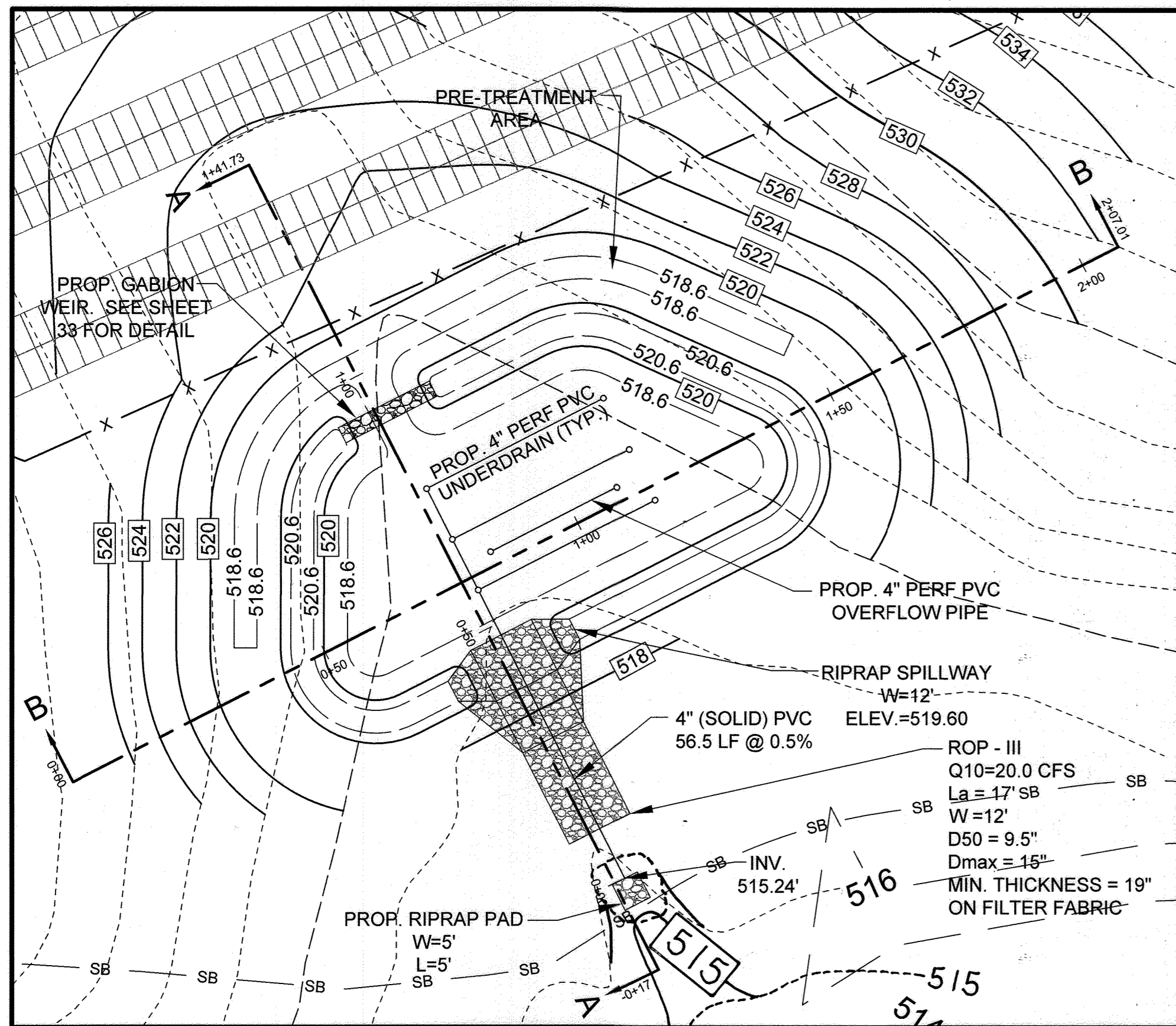
STORMWATER MANAGEMENT PLAN
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144
 TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 PARCEL 73
 HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
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 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 32 of 38

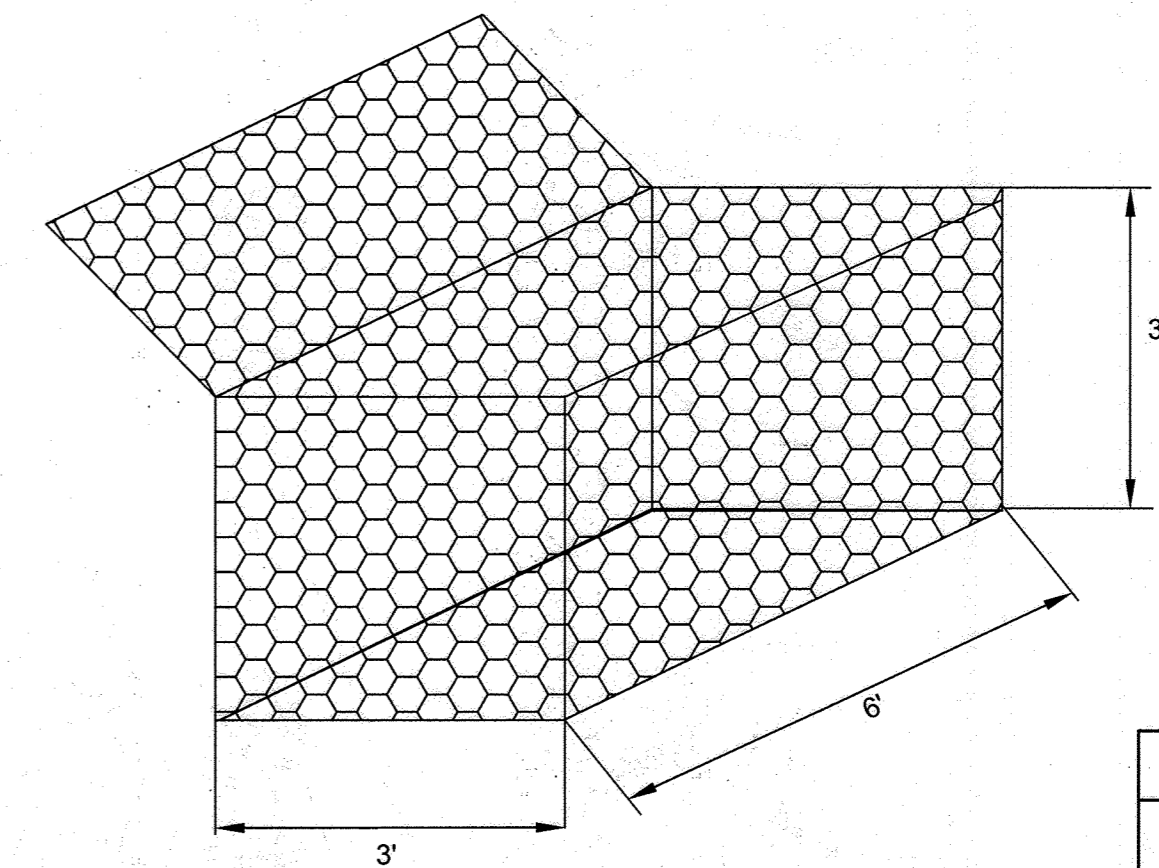
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BIO#1 PIPE SCHEDULE		
SIZE	TYPE	LENGTH
4" PERFORATED	SCH 40 PVC	150 LF
4" SOLID	SCH 40 PVC	56.5 LF

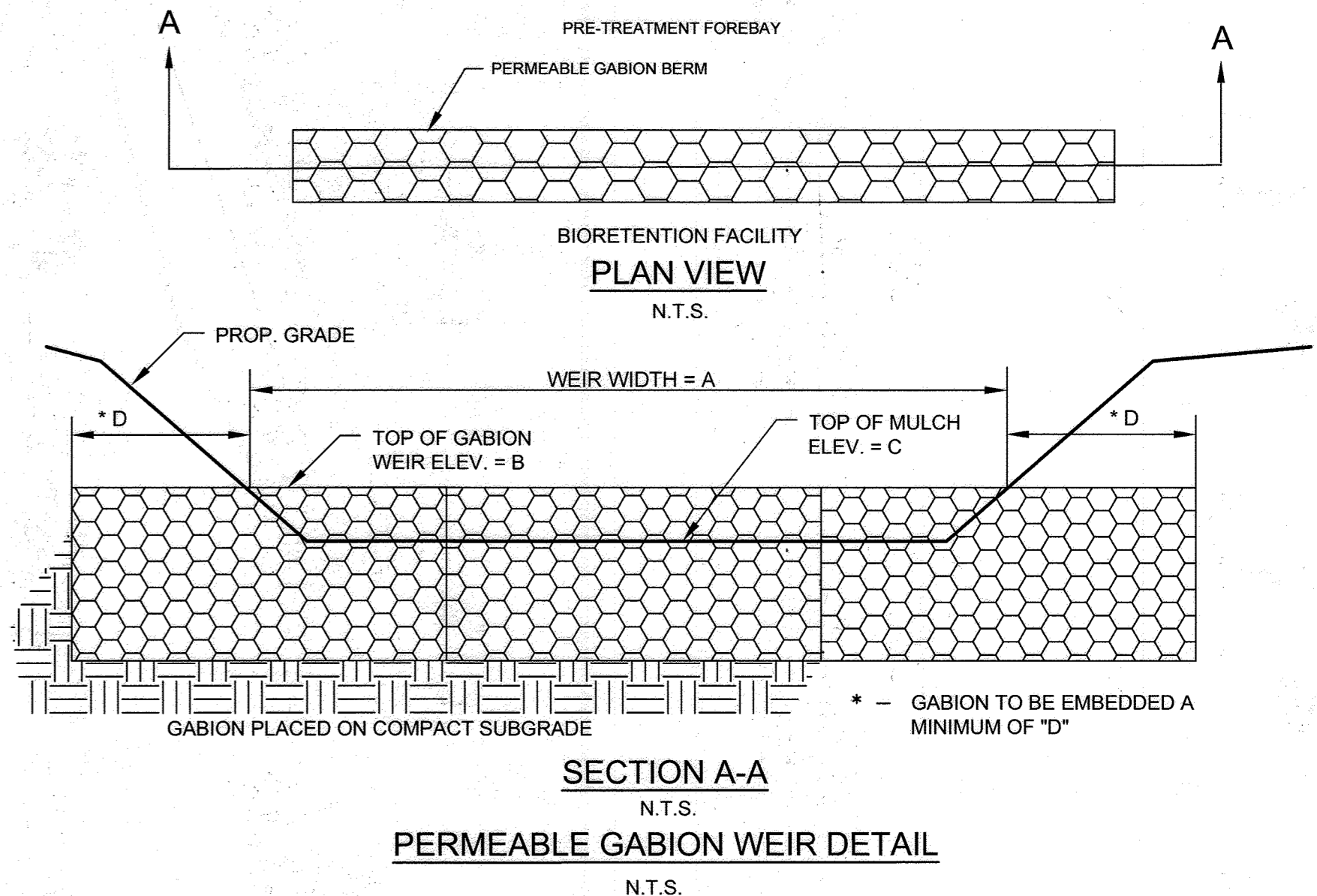
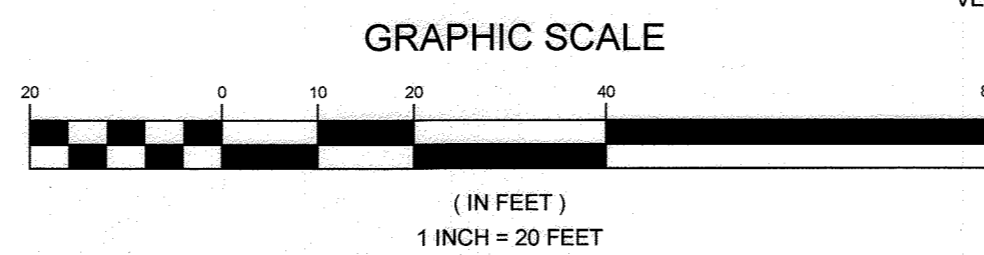
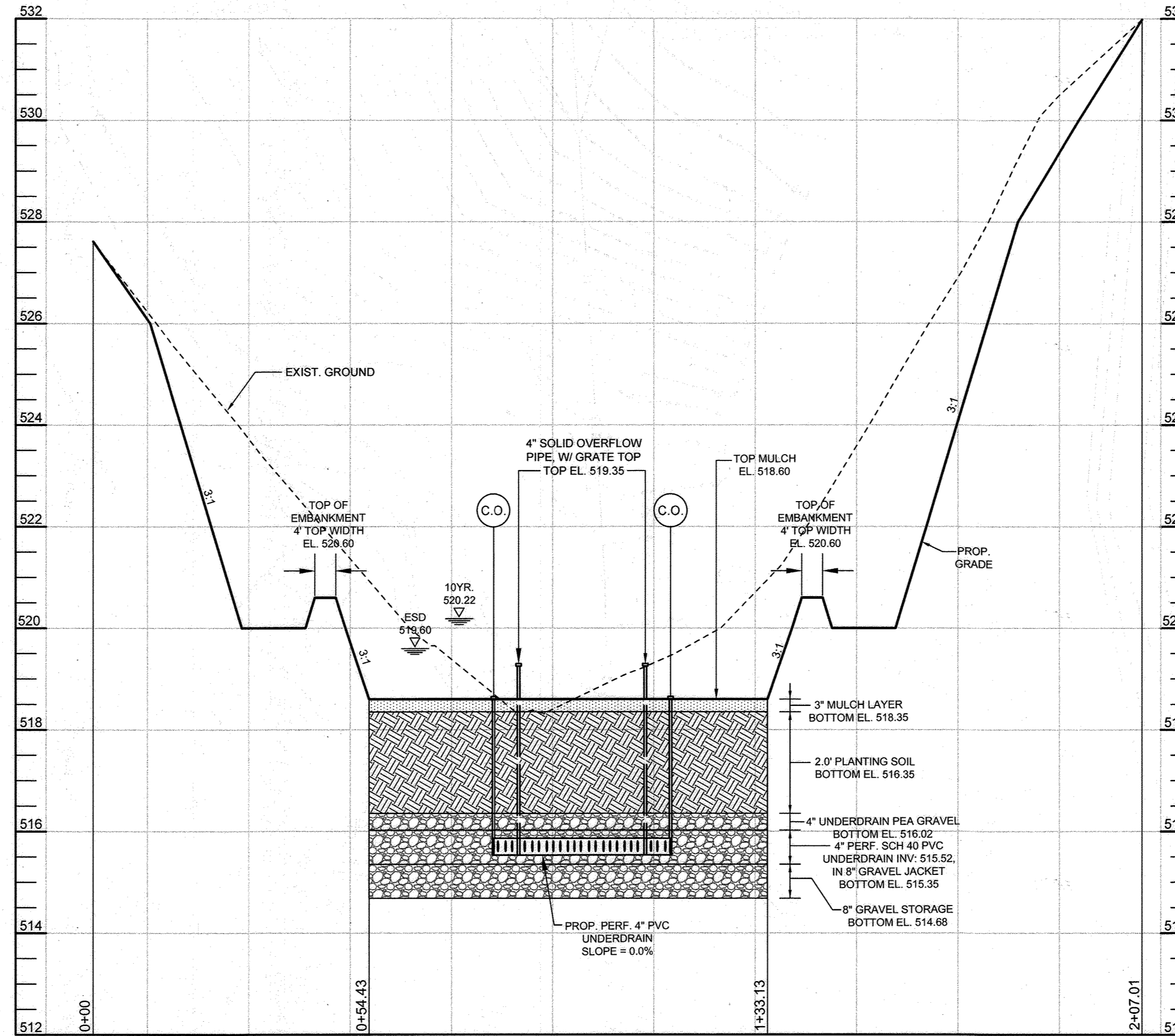
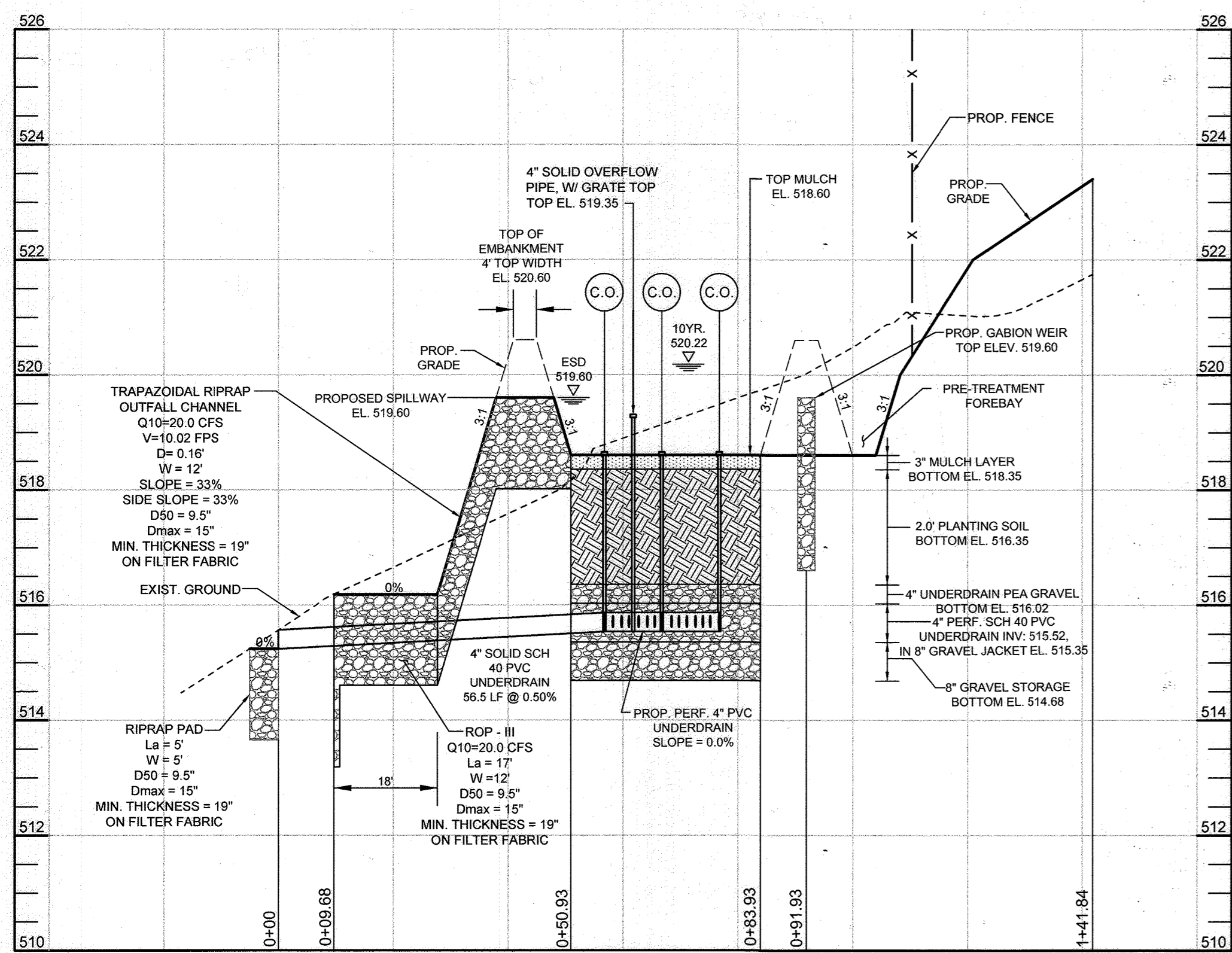
BIORETENTION PLANT LIST						
SHRUBS						
LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY. BIO 1
+	ILEX VERTICILLATA	WINTERBERRY	AS SHOWN (MIN. 4' O.C.)	24"-36" HT.	1 MALE PLANT PER 9 FEMALE PLANTS, PLACE IN CENTER	40
○	HAMMAMELIS X INTERMEDIA 'ARNOLD PROMISE'	WITCH HAZEL 'ARNOLD PROMISE'	AS SHOWN (MIN. 15' O.C.)	3-4 FEET	B & B	3
PERENNIALS						
LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY. BIO 1
⊕	ECHINACEA PURPUREA	PURPLE CONEFLOWER	AS SHOWN* (MIN. 2' O.C.)	1 GAL		10
○	RUDEBECKIA HIRTA	BLACK EYED SUSAN	AS SHOWN* (MIN. 2' O.C.)	1 GAL		11

NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH.



GABION WEIR TABLE					
BIO#	NUMBER OF 3'x6'x3' BASKETS	A (FT.)	B (FT.)	C (FT.)	D (FT.)
1	3	12	519.6	518.6	3
2	3	10	519.5	518.5	4
3	2	5	503.0	502.0	3.5

- GABION BASKET TO BE FILLED WITH 4"-8" STONE.
- CONTRACTOR TO SECURE BASKETS TOGETHER.
- GABION TO BE PLACED ON COMPACTED SUBGRADE.



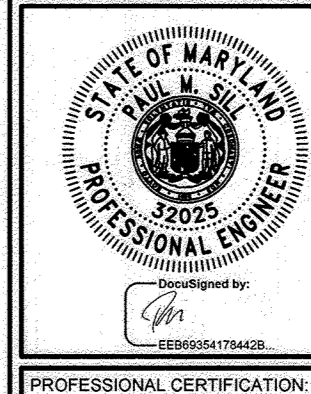
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	DATE: 5/12/2022
CHIEF DEVELOPMENT ENGINEERING DIVISION	DATE: 5/12/2022
CHIEF DIVISION OF LAND DEVELOPMENT	DATE: 5/20/2022
DIRECTOR	DATE:

NO.	REVISIONS	DATE
1	REVISE THE GRADING AT THE OUTLET OF BIO #1	04/02/2023

OWNER
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WEST FRIENDSHIP, MD 21794
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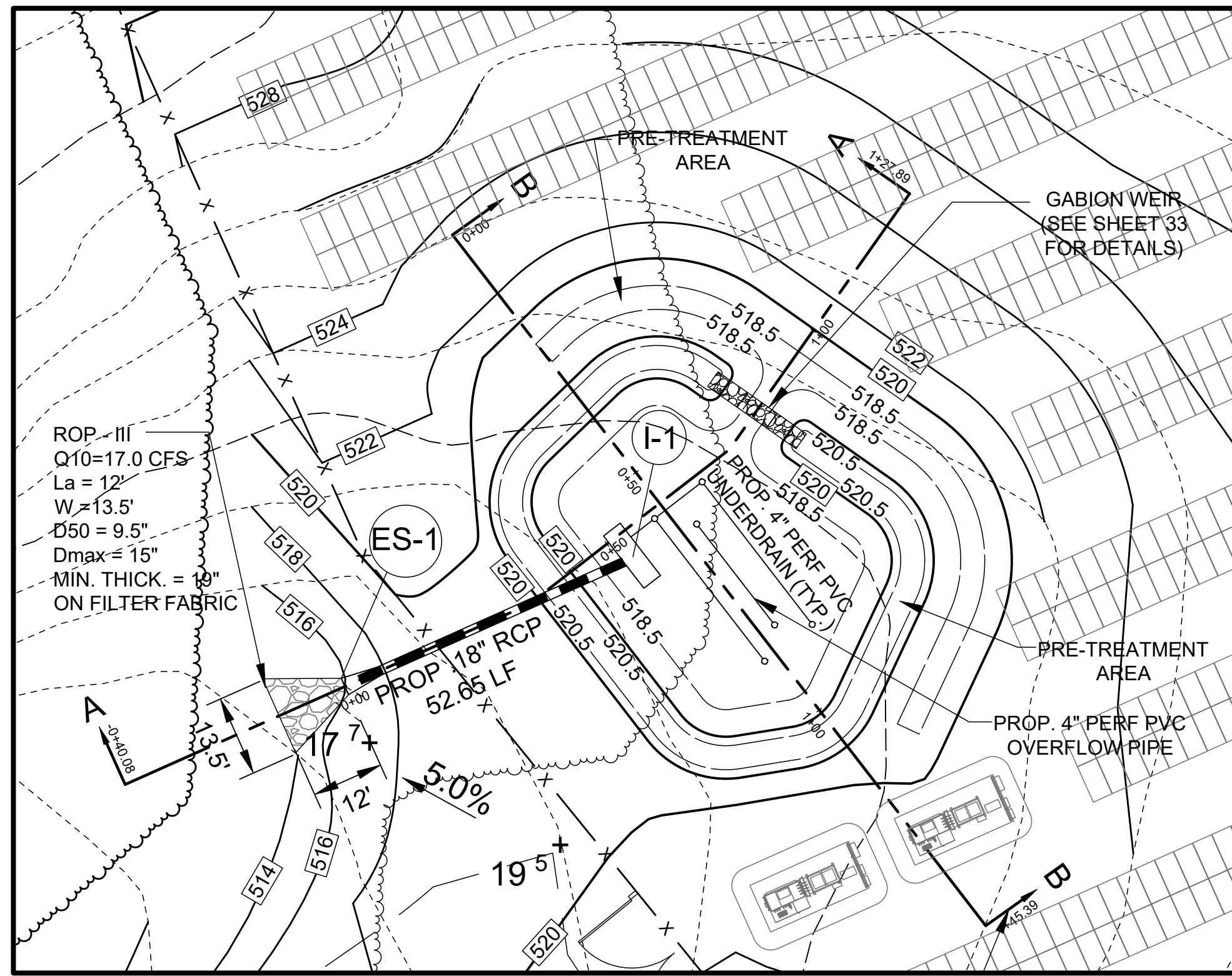
STORMWATER MANAGEMENT PLAN AND PROFILES
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
PARCEL 73
HOWARD COUNTY, MARYLAND



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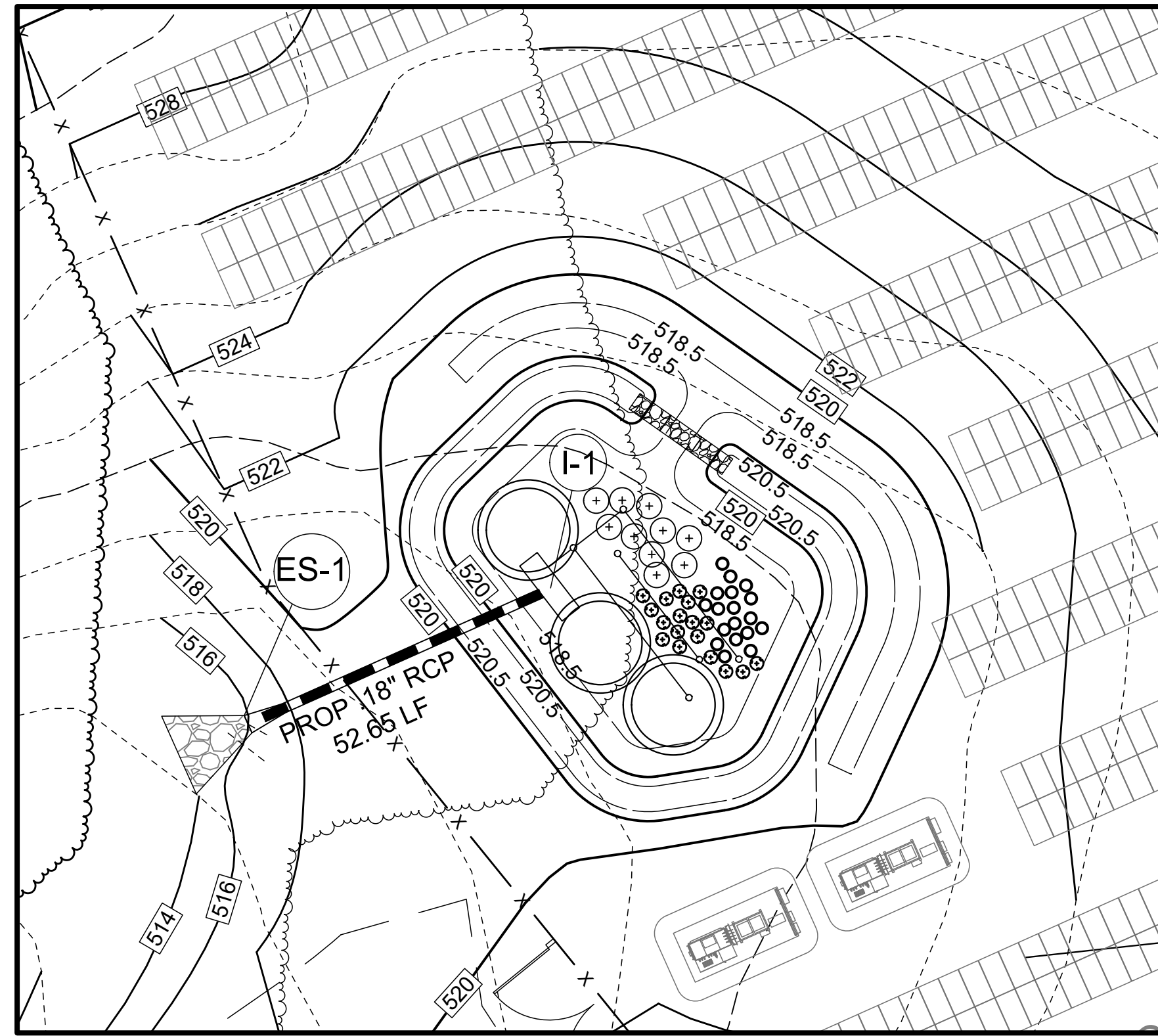
DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 33 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32029, EXPIRATION DATE: JUNE 25, 2023.



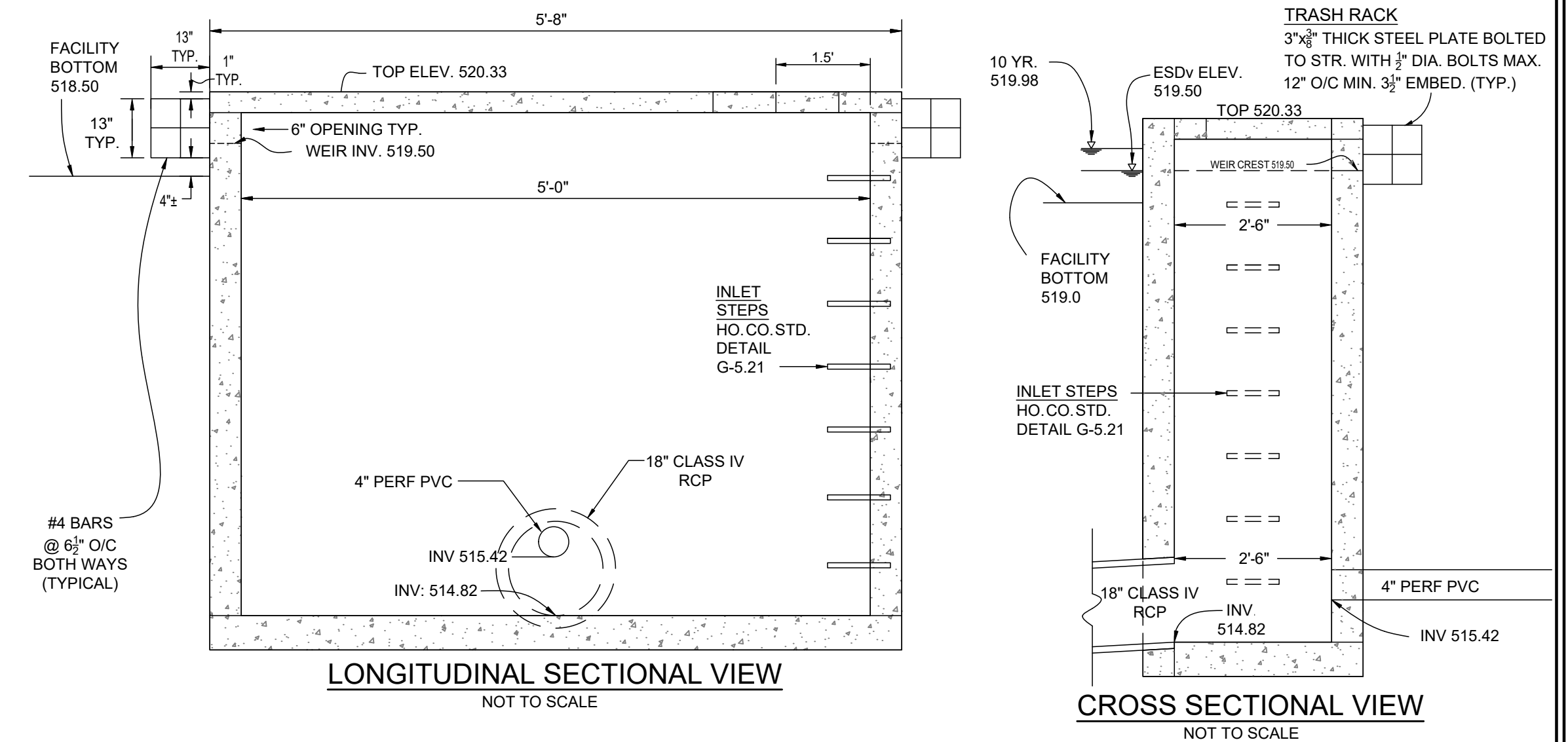
PLAN VIEW - BIoretention FACILITY #2 (F-6)

SCALE: 1"=20'



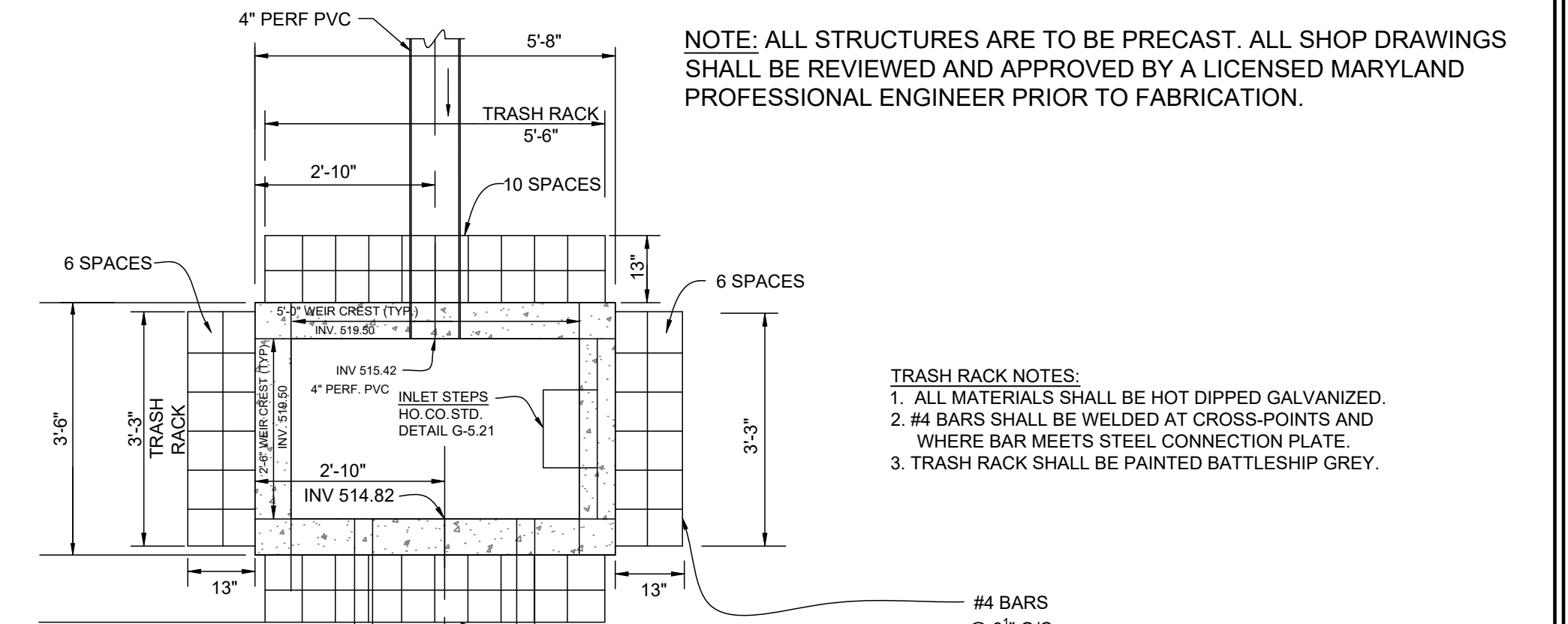
BIoretention FACILITY #2 (F-6) LANDSCAPE PLAN

SCALE: 1"=20'



LONGITUDINAL SECTIONAL VIEW
NOT TO SCALE

CROSS SECTIONAL VIEW
NOT TO SCALE



PLAN VIEW

STRUCTURE I-3 MODIFIED A-5 INLET
MODIFIED HOWARD COUNTY STD. DETAIL D-4.03.
NOT TO SCALE

THERE ARE WEIR OPENINGS ON ALL SIDES; THE LONG SIDE FACING INTO THE SWM FACILITY AND TWO ADJOINING SHORT SIDES.

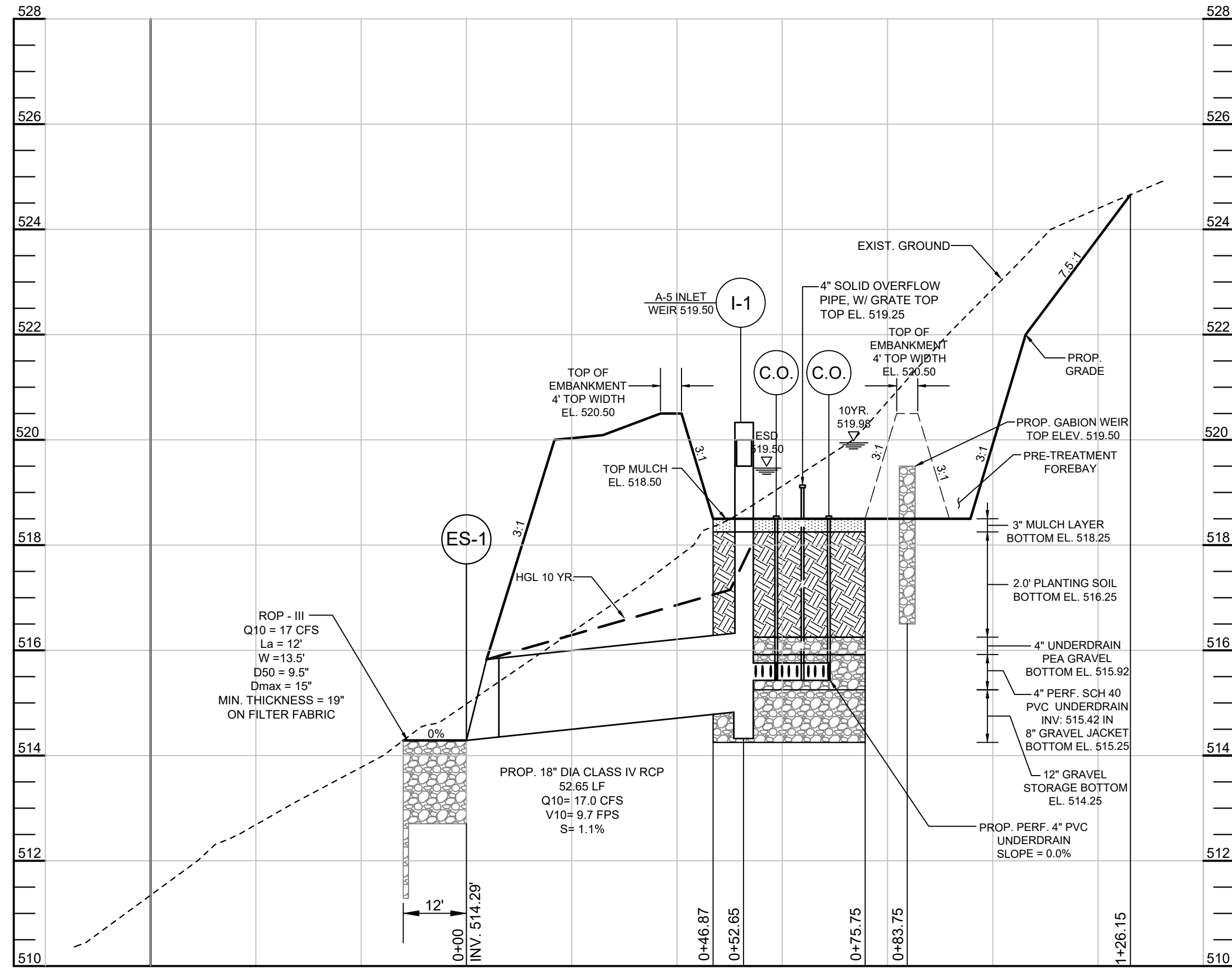
NOTE: FOR REINFORCING AND DETAILS NOT SHOWN SEE HO. CO. STD. S.D. 4.03.

STRUCTURE SCHEDULE						
NO.	TYPE & OWNERSHIP	LOCATION	WEIR ELEV.	INV. IN	INV. OUT	REMARKS
ES-1	18" RCP	N 600,698 N1,317,544	-	514.35	514.29	END SECTION HO.CO. D-5.51
I-1	A-5 INLET	N 600,698 N1,317,488	519.50	515.43	514.82	MODIFIED A-5 (SEE THIS SHEET FOR DETAIL)

BIoretention PLANT LIST						
SHRUBS						
LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY. BIO.2
+	ILEX VERTICILLATA	WINTERBERRY	AS SHOWN (MIN. 4' O.C.)	24"-36" HT.	1 MALE PLANT PER 9 FEMALE PLANTS, PLACE IN CENTER	10
○	HAMMAMELIS X INTERMEDIA 'ARNOLD PROMISE'	WITCH HAZEL 'ARNOLD PROMISE'	AS SHOWN (MIN. 15' O.C.)	3-4 FEET	B & B	3
PERENNIALS						
LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY. BIO.2
⊕	ECHINACEA PURPUREA	PURPLE CONEFLOWER	AS SHOWN* (MIN. 2' O.C.)	1 GAL		18
○	RUDEBECKIA HIRTA	BLACK EYED SUSAN	AS SHOWN* (MIN. 2' O.C.)	1 GAL		18

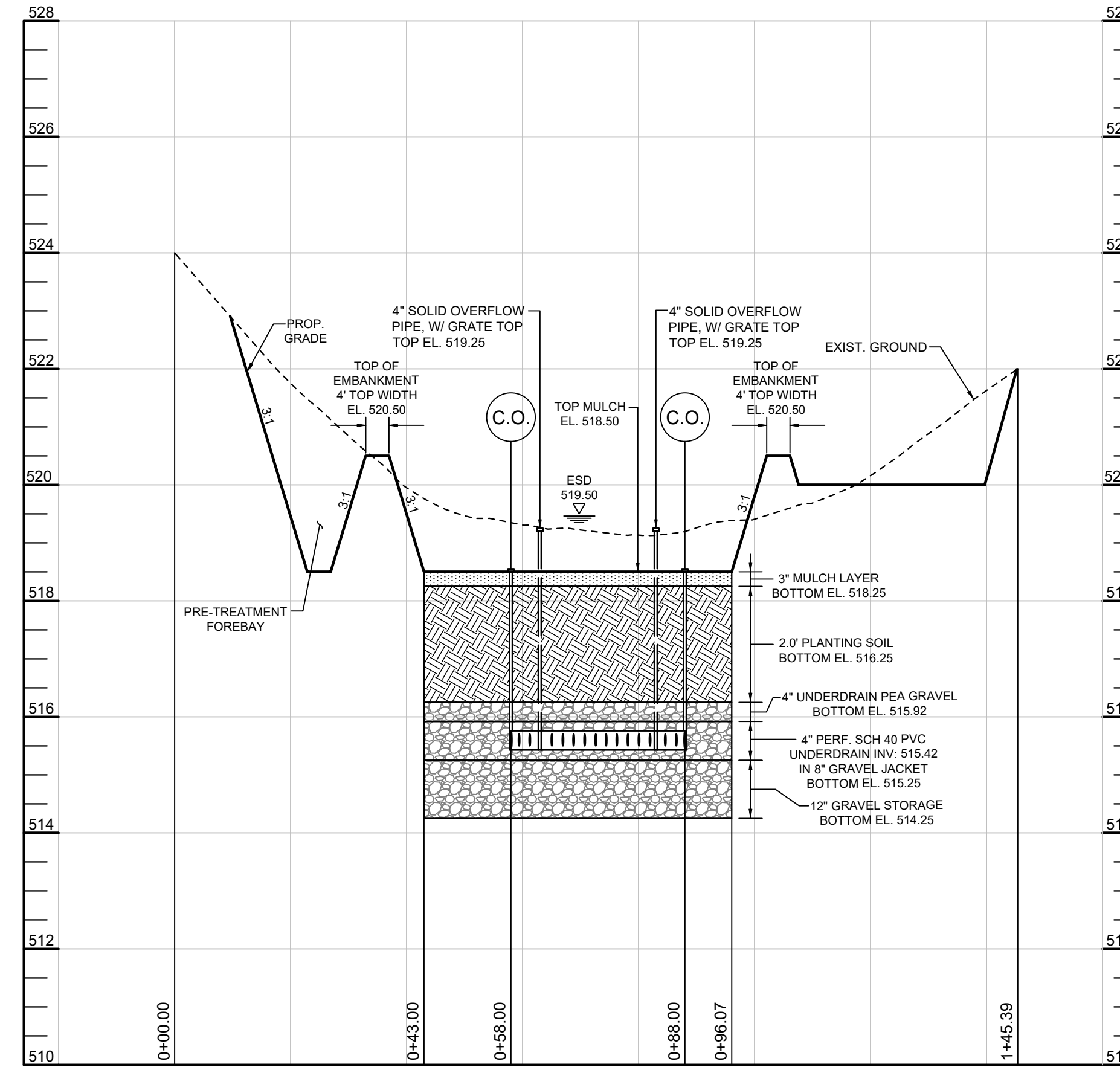
NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH.

BIO#2 PIPE SCHEDULE		
SIZE	TYPE	LENGTH
4" PRIVATE	PVC SCH 40	96 LF
18" PRIVATE	RCP CLASS IV	46.5 LF



BIoretention FACILITY #2 (F-6) - PROFILE (A-A)

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'



BIoretention FACILITY #2 (F-6) - PROFILE (B-B)

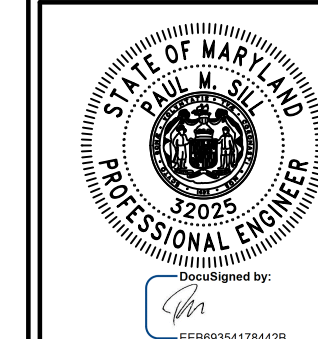
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

STORMWATE MANAGEMENT PROFILE,
NOTES AND DETAILS
SUNEA CLEAR VIEW FARM SOLAR FACILITY

13370 ROUTE 144
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 73
HOWARD COUNTY, MARYLAND

OWNER
CLEAR VIEW FARM, LLC
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WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
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APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
5/12/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
5/12/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
5/20/2022
DIRECTOR

NO.	DESCRIPTION	DATE

REVISIONS

B.4.C SPECIFICATIONS FOR MICRO-BIORETENTION, RAIN GARDENS, LANDSCAPE INFILTRATION & INFILTRATION BERMS

- 1. MATERIAL SPECIFICATIONS**
THE ALLOWABLE MATERIALS TO BE USED IN THESE PRACTICES ARE DETAILED IN TABLE B.4.1.
- 2. FILTERING MEDIA OR PLANTING SOIL**
THE SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE MICRO-BIORETENTION PRACTICE THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVIDE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, OR OTHER NOXIOUS WEEDS AS SPECIFIED UNDER COMAR 15.08.01.05.

THE PLANTING SOIL SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:

- SOIL COMPONENT - LOAMY SAND OR SANDY LOAM (USDA SOIL TEXTURAL CLASSIFICATION)
- ORGANIC CONTENT - MINIMUM 10% BY DRY WEIGHT (ASTM D 2974). IN GENERAL, THIS CAN BE MET WITH A MIXTURE OF LOAMY SAND (60%-65%) AND COMPOST (35% TO 40%) OR SANDY LOAM (30%), COARSE SAND (30%), AND COMPOST (40%).
- CLAY CONTENT - MEDIA SHALL HAVE A CLAY CONTENT OF LESS THAN 5%.
- PH RANGE - SHOULD BE BETWEEN 5.5 - 7.0. AMENDMENTS (E.G., LIME, IRON SULFATE PLUS SULFUR) MAY BE MIXED INTO THE SOIL TO INCREASE OR DECREASE PH.

THERE SHALL BE AT LEAST ONE SOIL TEST PER PROJECT. EACH TEST SHALL CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE STOCKPILED TOPSOIL. IF TOP SOIL IS IMPORTED, THEN A TEXTURE ANALYSIS SHALL BE PERFORMED FOR EACH LOCATION WHERE THE TOPSOIL WAS EXCAVATED.

3. COMPACTION
IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF BIORETENTION PRACTICES AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF PRACTICES ARE EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TYPE TIRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH-PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION RATES AND IS NOT ACCEPTABLE. COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO DESIGN FAILURE.

COMPACTION CAN BE ALLEVIATED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE TO REFRACATURE THE SOIL PROFILE THROUGH THE 12 INCH COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.

ROTOTILL 2 TO 3 INCHES OF SAND INTO THE BASE OF THE BIORETENTION FACILITY BEFORE BACKFILLING THE OPTIONAL SAND LAYER. PUMP ANY PONDED WATER BEFORE PREPARING (ROTOTILLING) BASE.

WHEN BACKFILLING THE TOPSOIL OVER THE SAND LAYER, FIRST PLACE 3 TO 4 INCHES OF TOPSOIL OVER THE SAND, THEN ROTOTILL THE SAND/TOPSOIL TO CREATE A GRADATION ZONE. BACKFILL THE REMAINDER OF THE TOPSOIL TO FINAL GRADE.

WHEN BACKFILLING THE BIORETENTION FACILITY, PLACE SOIL IN LIFTS 12" TO 18". DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETENTION BASIN. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZELoader WITH MARSH TRACKS.

4. PLANT MATERIAL
RECOMMENDED PLANT MATERIAL FOR MICRO-BIORETENTION PRACTICES CAN BE FOUND IN APPENDIX A, SECTION A.2.3.

5. PLANT INSTALLATION
COMPOST IS A BETTER ORGANIC MATERIAL SOURCE, IS LESS LIKELY TO FLOAT, AND SHOULD BE PLACED IN THE INVERT AND OTHER LOW AREAS. MULCH SHOULD BE PLACED IN SURROUNDING TO A UNIFORM THICKNESS OF 2" TO 3". SHREDDED OR CHIPPED HARDWOOD MULCH IS THE ONLY ACCEPTED MULCH. FINE MULCH AND WOOD CHIPS WILL FLOAT AND MOVE TO THE PERIMETER OF THE BIORETENTION AREA DURING A STORM EVENT AND ARE NOT ACCEPTABLE. SHREDDED MULCH MUST BE WELL AGED (6 TO 12 MONTHS) FOR ACCEPTANCE.

ROOTSTOCK OF THE PLANT MATERIAL SHALL BE KEPT MOIST DURING TRANSPORT AND ON-SITE STORAGE. THE PLANT ROOT BALL SHOULD BE PLANTED SO 1/8TH OF THE BALL IS ABOVE FINAL GRADE SURFACE. THE DIAMETER OF THE PLANTING PIT SHALL BE AT LEAST SIX INCHES LARGER THAN THE DIAMETER OF THE PLANTING BALL. SET AND MAINTAIN THE PLANT STRAIGHT DURING THE ENTIRE PLANTING PROCESS. THOROUGHLY WATER GROUND BED COVER AFTER INSTALLATION.

TREES SHALL BE BRACED USING 2" BY 2" STAKES ONLY AS NECESSARY AND FOR THE FIRST GROWING SEASON ONLY. STAKES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TREE BALL.

GRASSES AND LEGUME SEED SHOULD BE DRILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE INCH. GRASS AND LEGUME PLUGS SHALL BE PLANTED FOLLOWING THE NON-GRASS GROUND COVER PLANTING SPECIFICATIONS.

THE TOPSOIL SPECIFICATIONS PROVIDE ENOUGH ORGANIC MATERIAL TO ADEQUATELY SUPPLY NUTRIENTS FROM NATURAL CYCLING. THE PRIMARY FUNCTION OF THE BIORETENTION STRUCTURE IS TO IMPROVE WATER QUALITY. ADDING FERTILIZERS, OR AT A MINIMUM, IMPEDES THIS GOAL. ONLY ADD FERTILIZER IF WOOD CHIPS OR MULCH ARE USED TO AMEND THE SOIL. ROTOTILL UREA FERTILIZER AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET.

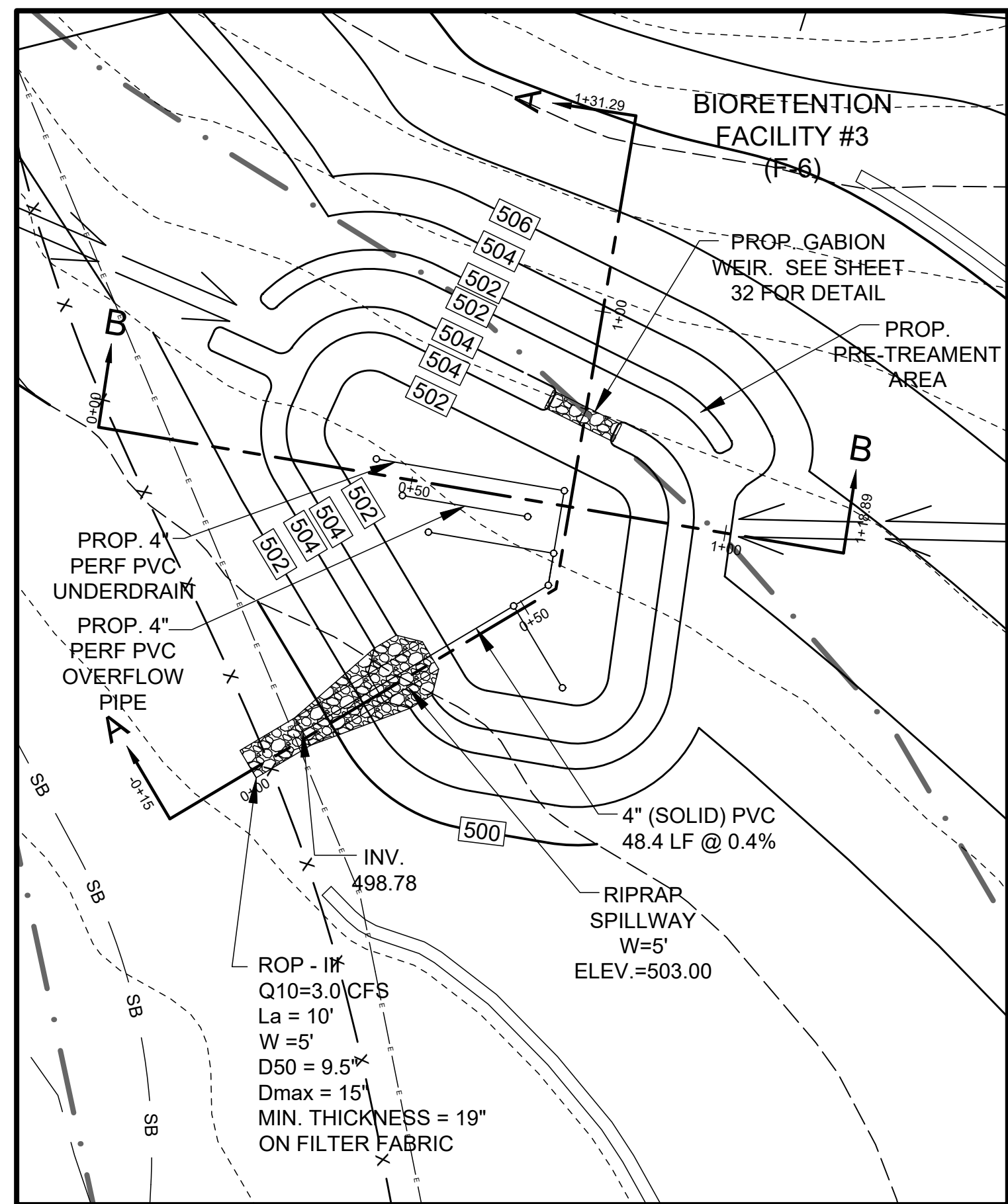
- 6. UNDERDRAINS**
UNDERDRAINS SHOULD MEET THE FOLLOWING CRITERIA:
- PIPE - SHOULD BE 4" TO 6" DIAMETER. SLOTTED OR PERFORATED RIGID PLASTIC PIPE (ASTM F 758, TYPE PS28, OR AASHTO-M-278) IN A GRAVEL LAYER. THE PREFERRED MATERIAL IS SLOTTED, 4" RIGID PIPE (E.G., PVC OR HDPE).
 - PERFORATIONS - IF PERFORATED PIPE IS USED, PERFORATIONS SHOULD BE 3/4" DIAMETER LOCATED 6" ON CENTER WITH A MINIMUM OF FOUR HOLES PER ROW. PIPE SHALL BE WRAPPED WITH A 1/2" (NO. 4 OR 4X4) GALVANIZED HARDWARE CLOTH.
 - GRAVEL - THE GRAVEL LAYER (NO. 57 STONE PREFERRED) SHALL BE AT LEAST 3" THICK ABOVE AND BELOW THE UNDERDRAIN.
 - THE MAIN COLLECTOR PIPE SHALL BE AT A MINIMUM 0.5% SLOPE.
 - A RIGID, NON-PERFORATED OBSERVATION WELL MUST BE PROVIDED (ONE PER EVERY 1,000 SQUARE FEET) TO PROVIDE A CLEAN-OUT PORT AND MONITOR PERFORMANCE OF THE FILTER.
 - A 4" LAYER OF PEA GRAVEL (1/2" TO 3/4" STONE) SHALL BE LOCATED BETWEEN THE FILTER MEDIA AND UNDERDRAIN TO PREVENT MIGRATION OF FINES INTO THE UNDERDRAIN. THIS LAYER MAY BE CONSIDERED PART OF THE FILTER BED WHEN BED THICKNESS EXCEEDS 24".

THE MAIN COLLECTOR PIPE FOR UNDERDRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIMUM SLOPE OF 0.5%. OBSERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MINIMUM PER EVERY 1000 SQUARE FEET OF SURFACE AREA).

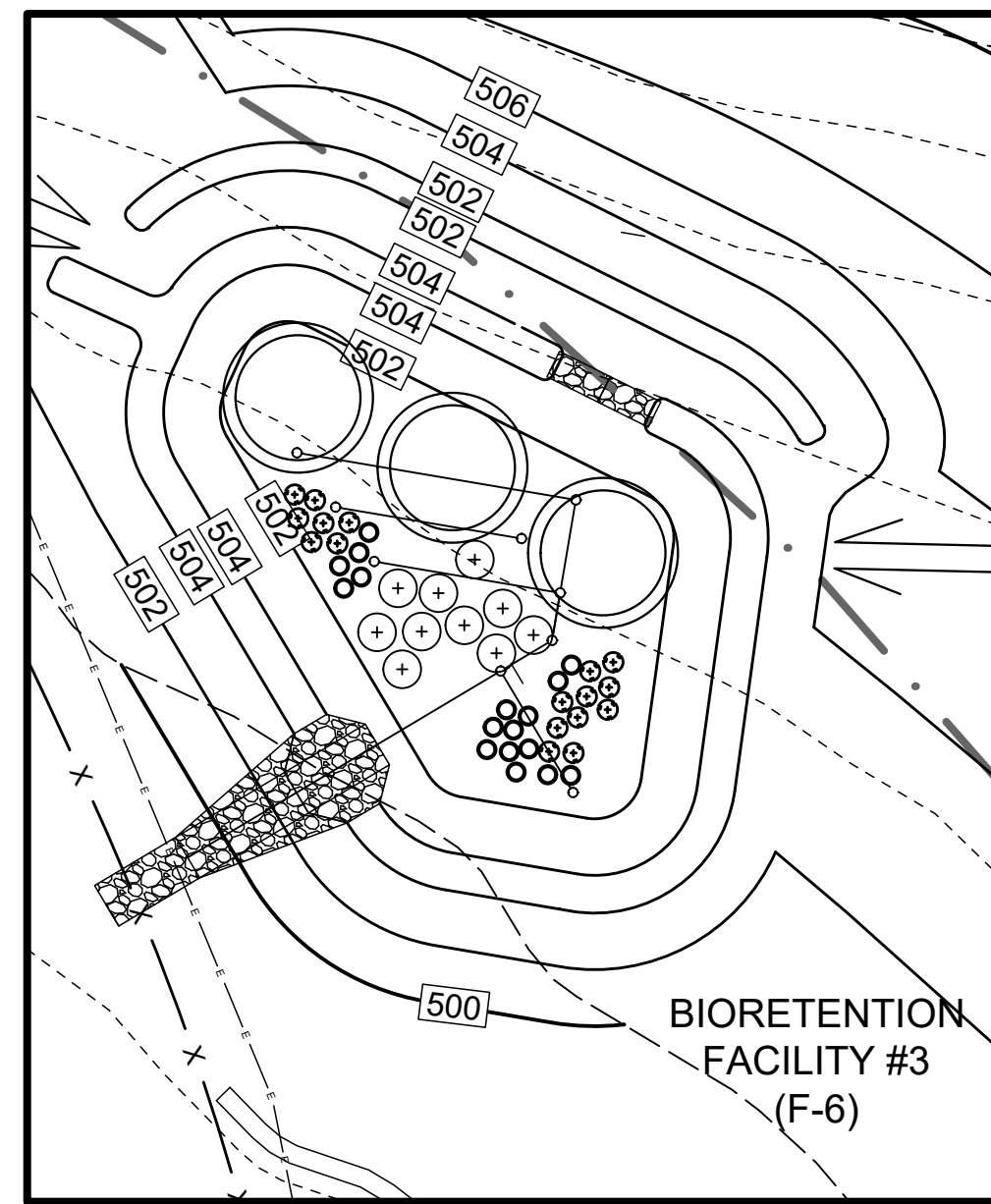
7. MISCELLANEOUS
THESE PRACTICES MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED BIORETENTION FACILITIES (F-6)

1. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, TABLE A.4.1 AND 2.
2. THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD OR DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
3. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.



PLAN VIEW - BIORETENTION FACILITY #3 (F-6)



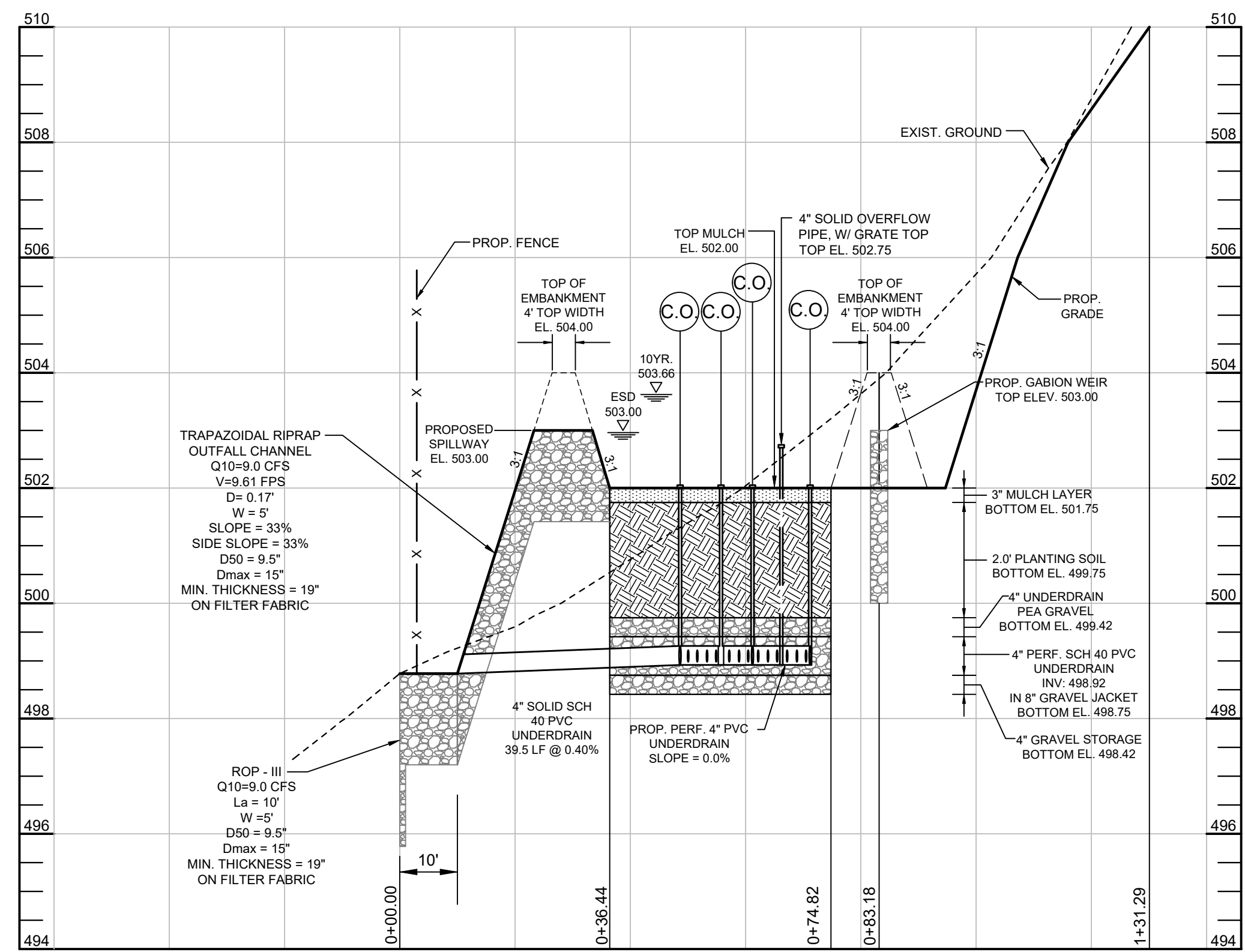
PLAN VIEW - BIORETENTION FACILITY #3 (F-6) LANDSCAPE PLAN

BIO#3 PIPE SCHEDULE

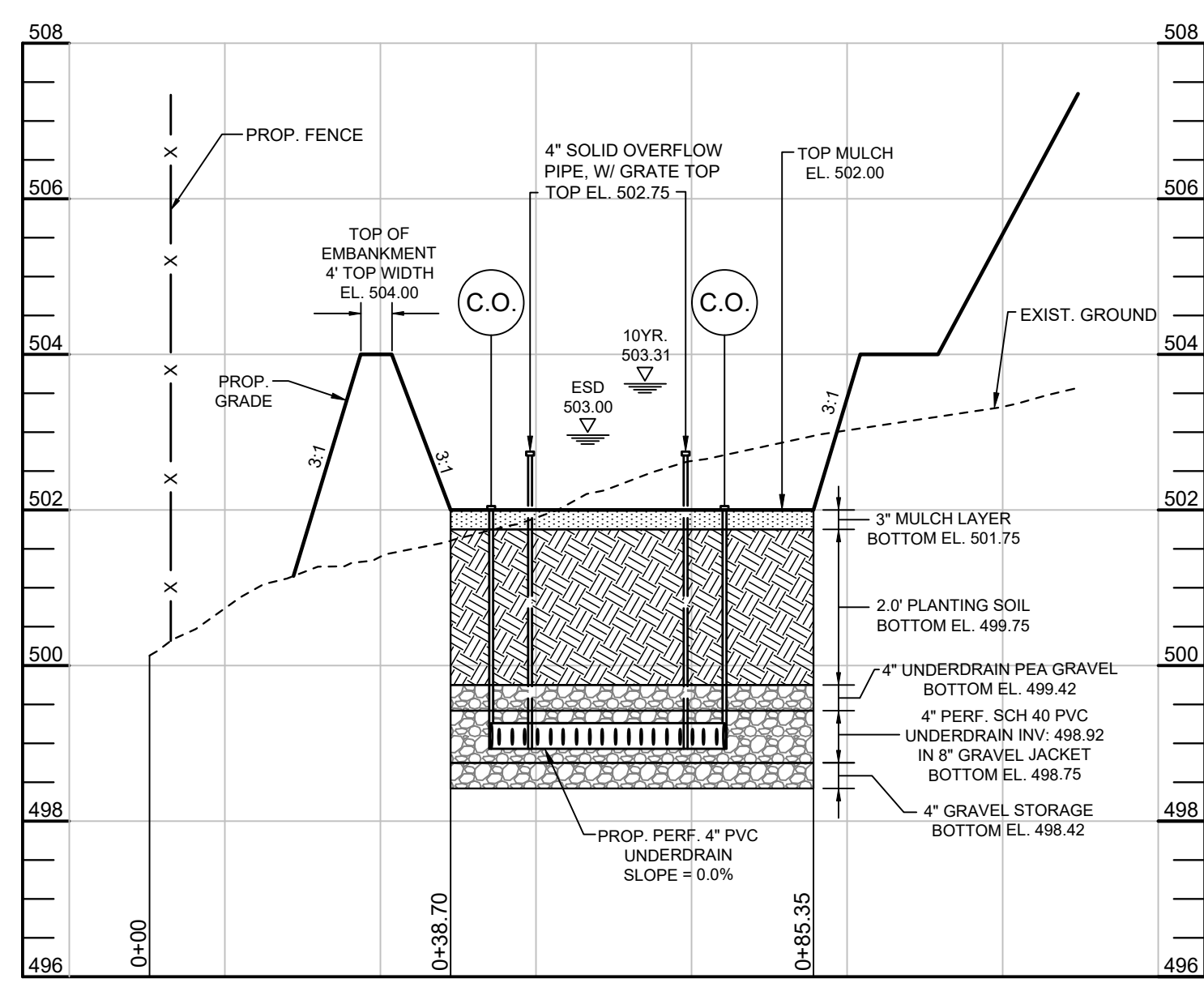
SIZE	TYPE	LENGTH
4" PERFORATED	SCH 40 PVC	100 LF
4" SOLID	SCH 40 PVC	39.5 LF

MATERIALS SPECIFICATIONS FOR MICRO-BIORETENTION, RAIN GARDEN & LANDSCAPE INFILTRATION

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLANT LIST THIS SHEET	N/A	PLANTINGS ARE SITE-SPECIFIC. SEE PLANT LIST THIS SHEET
PLANTING SOIL (2'-4" TO 4' DEEP)	LOAMY SAND (60% - 65%) & COMPOST (35%-40%) OR SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)	N/A	USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT < 5%
ORGANIC CONTENT	MIN. 10% BY DRY WEIGHT (ASTM-D-2974)		
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM. NO PINE OR WOOD CHIPS
PEA GRAVEL DIAPHRAGM	PEA GRAVEL: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
CURTAIN DRAIN (IF REQUIRED)	ORNAMENTAL STONE: WASHED COBBLES	STONE: 2" TO 5"	
GEOTEXTILE	AASHTO M-43	N/A	PE TYPE 1 NONWOVEN
UNDERDRAIN GRAVEL		NO. 57 OR NO. 8 AGGREGATE (3/8" TO 3/4")	
UNDERDRAIN PIPING	F 758, TYPE PS 28 OR AASHTO M-278	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	SLOTTED OR PERFORATED PIPE, 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW. MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH.
POURED IN PLACE CONCRETE (IF REQUIRED)	MSHA MX NO. 3; F _c = 3500 PSI @ 28 DAYS, NORMAL WEIGHT, AIR-ENTRAINED, REINFORCING TO MEET ASTM-615-00	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND. DESIGN TO INCLUDE MEETING ACI CODE 308 R/89. VERTICAL LOADING (H-10 OR H-20); ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING.
SAND	AASHTO-M-6 OR ASTM-C-33	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.



BIORETENTION FACILITY #3 (F-6) - PROFILE (A-A)



BIORETENTION FACILITY #3 (F-6) - PROFILE (B-B)

BIORETENTION PLANT LIST

SHRUBS						
LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY./BIO.3
(+)	ILEX VERTICULATA	WINTERBERRY	AS SHOWN (MIN. 4" O.C.)	24"-36" HT.	1 MALE PLANT PER 9 FEMALE PLANTS, PLACE IN CENTER	10
(O)	HAMMAMELIS X INTERMEDIA 'ARNOLD PROMISE'	WITCH HAZEL 'ARNOLD PROMISE'	AS SHOWN (MIN. 15" O.C.)	3-4 FEET		3
PERENNIALS						
LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY./BIO.3
(*)	ECHINACEA PURPUREA	PURPLE CONEFLOWER	AS SHOWN (MIN. 2' O.C.)	1 GAL		17
(O)	RUDEBECKIA HIRTA	BLACK EYED SUSAN	AS SHOWN (MIN. 2' O.C.)	1 GAL		17

NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

5/12/2022

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE

5/12/2022

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE

5/20/2022

DIRECTOR

DATE

NO.	DESCRIPTION	DATE

REVISIONS

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
608-305-4360
WALTER.SERAFYN@CIENEWS.COM

STORMWATER MANAGEMENT NOTES AND DETAILS
SUNEAST CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 73
HOWARD COUNTY, MARYLAND

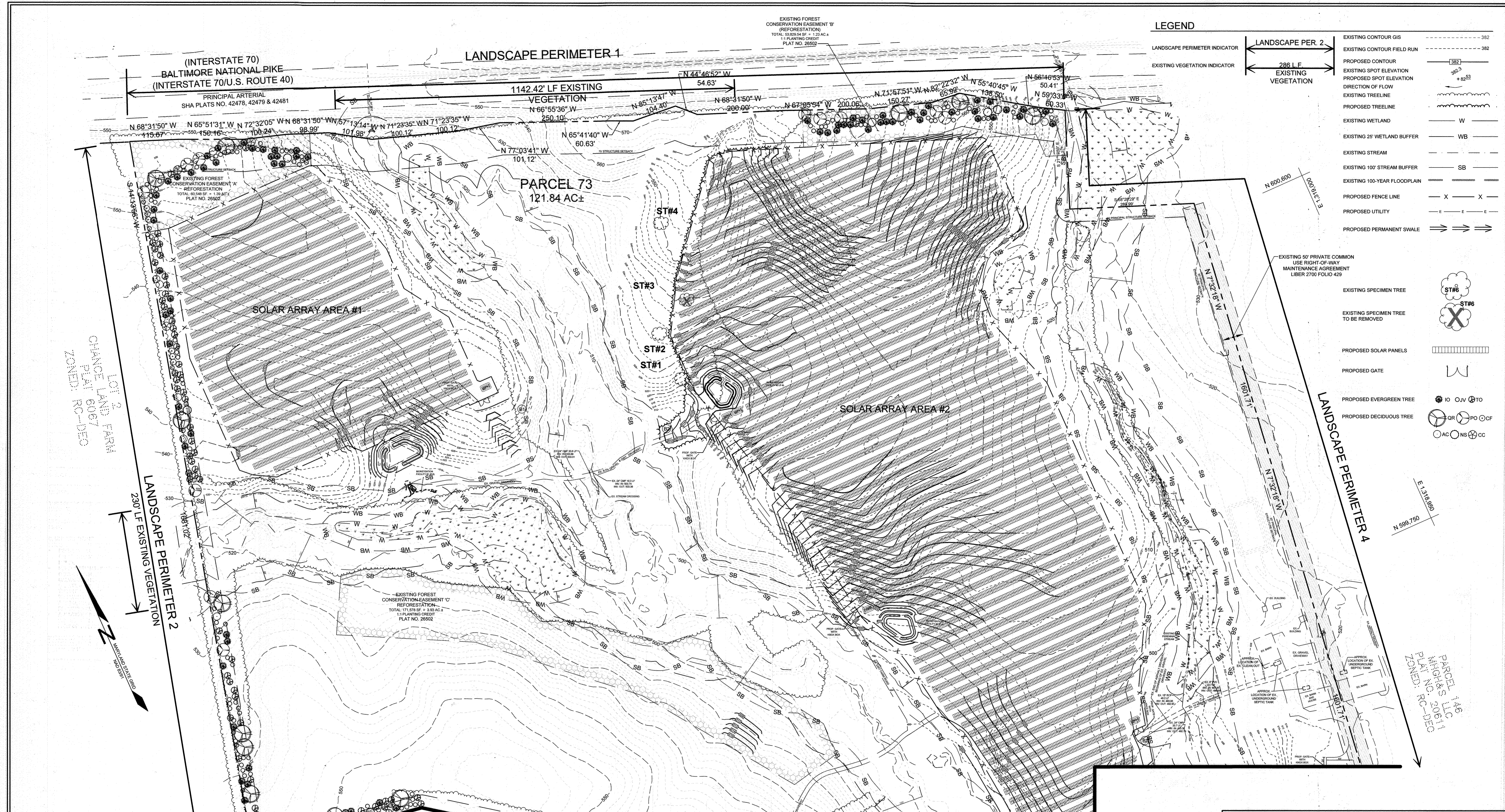
OWNER
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WEST FRIENDSHIP, MD 21794
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WALTER SERAFYN
608-305-4360
WALTER.SERAFYN@CIENEWS.COM

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 35 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



LEGEND

- EXISTING CONTOUR GIS: Dashed line with elevation (e.g., 382)
- EXISTING CONTOUR FIELD RUN: Solid line with elevation (e.g., 382)
- PROPOSED CONTOUR: Solid line with elevation (e.g., 382)
- EXISTING SPOT ELEVATION: Circle with elevation (e.g., 82.5)
- PROPOSED SPOT ELEVATION: Circle with elevation (e.g., 82.5)
- DIRECTION OF FLOW: Arrow
- EXISTING TREELINE: Wavy line
- PROPOSED TREELINE: Wavy line
- EXISTING WETLAND: 'W' symbol
- EXISTING 25' WETLAND BUFFER: 'WB' symbol
- EXISTING STREAM: Dashed line
- EXISTING 100' STREAM BUFFER: 'SB' symbol
- EXISTING 100-YEAR FLOODPLAIN: Dashed line
- PROPOSED FENCE LINE: 'X' symbol
- PROPOSED UTILITY: 'E' symbol
- PROPOSED PERMANENT SWALE: Double arrow
- EXISTING 50' PRIVATE COMMON USE RIGHT-OF-WAY MAINTENANCE AGREEMENT LIBER 2706 FOLIO 429: Dashed line
- EXISTING SPECIMEN TREE: Circle with 'ST#6' or 'ST#7'
- EXISTING SPECIMEN TREE TO BE REMOVED: Circle with 'X' and 'ST#6' or 'ST#7'
- PROPOSED SOLAR PANELS: Grid pattern
- PROPOSED GATE: 'W' symbol
- PROPOSED EVERGREEN TREE: Circle with 'O', 'V', 'TO'
- PROPOSED DECIDUOUS TREE: Circle with 'OR', 'PO', 'CF', 'AC', 'NS', 'CC'

DEVELOPER'S CERTIFICATE

I CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

DocuSigned by: *[Signature]* 4/26/2022
 DEVELOPER: B4700FD337544B... DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 5/12/2022
 CHIEF DEVELOPER ENGINEERING DIVISION DATE

APPROVED: COUNTY DEPARTMENT OF LAND DEVELOPMENT
[Signature] 5/20/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DIRECTOR: S8405D0470C4D... DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

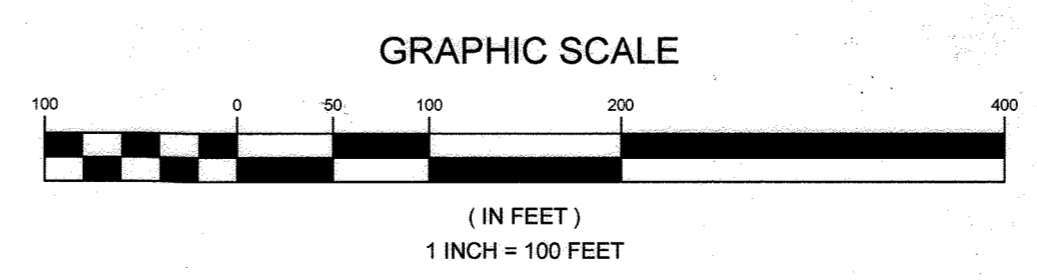
DocuSigned by: *[Signature]* 5/20/2022
 Michael J. Davis
 A009713D5A85423...
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

PLAN VIEW
SCALE: 1"=100'

NO.	DESCRIPTION	DATE
1	REVISE THE GRADING AT THE OUTFALL OF DN #1	01/12/2023

REVISIONS

MATCHLINE - SHEET 37



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21784
 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYN
 908-955-4360
 WALTER.SERAFYN@CIRENEW.COM

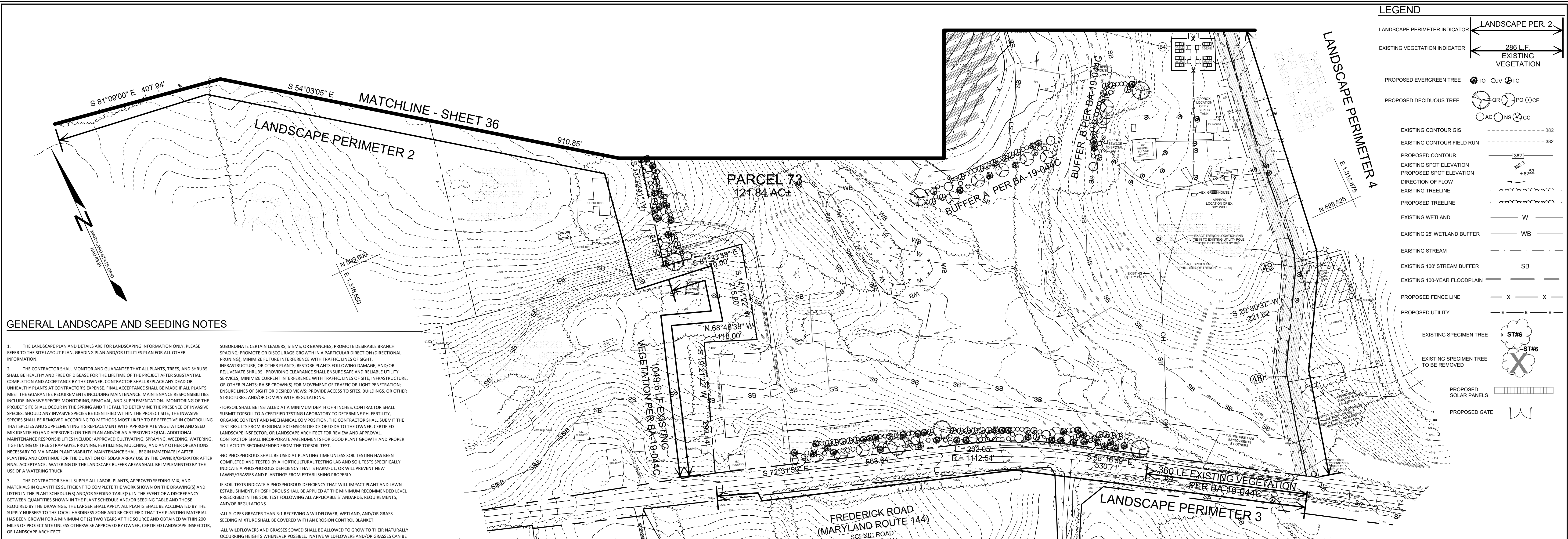
LANDSCAPE PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144
 HOWARD COUNTY, MARYLAND

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: JC
 DRAWN BY: MOB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 38 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30269, EXPIRATION DATE: JUNE 30, 2023



GENERAL LANDSCAPE AND SEEDING NOTES

- THE LANDSCAPE PLAN AND DETAILS ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE LAYOUT PLAN, GRADING PLAN AND/OR UTILITIES PLAN FOR ALL OTHER INFORMATION.
- THE CONTRACTOR SHALL MONITOR AND GUARANTEE THAT ALL PLANTS, TREES, AND SHRUBS SHALL BE HEALTHY AND FREE OF DISEASE FOR THE LIFETIME OF THE PROJECT AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE, MAINTENANCE RESPONSIBILITIES INCLUDE INVASIVE SPECIES MONITORING, REMOVAL, AND SUPPLEMENTATION. MONITORING OF THE PROJECT SITE SHALL OCCUR IN THE SPRING AND THE FALL TO DETERMINE THE PRESENCE OF INVASIVE SPECIES. SHOULD ANY INVASIVE SPECIES BE IDENTIFIED WITHIN THE PROJECT SITE, THE INVASIVE SPECIES SHALL BE REMOVED ACCORDING TO METHODS MOST LIKELY TO BE EFFECTIVE IN CONTROLLING THAT SPECIES AND SUPPLEMENTED WITH APPROPRIATE VEGETATION AND SEED MIX IDENTIFIED (AND APPROVED) ON THIS PLAN AND/OR AN APPROVED EQUAL. ADDITIONAL MAINTENANCE RESPONSIBILITIES INCLUDE: APPROVED CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING OF TREE STRAP GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE FOR THE DURATION OF SOLAR ARRAY USE BY THE OWNER/OPERATOR AFTER FINAL ACCEPTANCE. WATERING OF THE LANDSCAPE BUFFER AREAS SHALL BE IMPLEMENTED BY THE USE OF A WATERING TRUCK.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, APPROVED SEEDING MIX, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS (AND LISTED IN THE PLANT SCHEDULE(S) AND/OR SEEDING TABLE(S)), IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND/OR SEEDING TABLE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDNESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF (2) TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT.
- THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SLOPE, VEGETATION, AND SITE FACTORS SUCH AS THE LOCATION OF ROCK OUTCROPS. PRIOR TO PLANTING THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT SHALL APPROVE THE FIELD LOCATIONS OR ADJUSTMENTS OF THE PLANT MATERIAL.
- ALL SHRUB MASSINGS SHALL BE MULCHED TO A DEPTH OF 2" AND SHREDDED HARDWOOD BARK MULCH SHALL BE USED FOR SHRUB MISSING AREAS.
- NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE CONTRACTOR. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT. STAKING OF THE INSTALLED TREE MUST BE COMPLETED THE SAME DAY AS IT IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED AS PER THE DETAIL. SEE LANDSCAPING PLANS FOR PLANTING DETAILS.
- COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE LAYOUT, GRADING AND/OR UTILITY PLANS FOR STORM, SANITARY, GAS, ELECTRIC, TELEPHONE AND WATER LINES. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPAIR OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- LANDSCAPE PLANTING PITS MUST BE FREE DRAINING, PAVEMENT, COMPACTED SUBGRADE, AND BLENDED ROCK SHALL BE REMOVED TO A DEPTH OF 2" OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITH MODERATELY COMPACTED LOAM OR SAND/LOAM FREE FROM STONES AND RUBBISH 1" OR GREATER IN SIZE AND OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT. PLANTING INSTALLATION SHALL BE AS DETAILED AND CONTAIN PLANTING MIX AS SPECIFIED UNLESS RECOMMENDED OTHERWISE BY SOIL ANALYSIS.

BOTANICAL NAME	COMMON NAME	MIX CONCENTRATION	RATE (LBS/ACRE)	RATE (LBS/1000 FT ²)
SCHIZACHYRIUM	LITTLE BLUESTEM	40%		
SCORARIUM				
ROUPELLOIA	SIDEOTS GRAMA	23.40%		
CURTIPENDULA				
COSMOS BIPINNATUS	COSMOS	7.30%		
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	3.50%		
CHIMENACEA PURPUREA	PURPLE CONEFLOWER	3.50%		
ELYMUS VIRGINICUS	VIRGINIA WILDFLOWER	3%		
SORGHASTRUM NUTANS	INDIANGRASS	2.50%		
LUPINUS POLYPHYLLUS	BIG LEAF LUPINE	2.20%		
CHAMAECRISTA FASCICULATA	PARTIFLOE PEA	2%		
DELPHINIUM AJACIS	ROCKET LARKSPUR	2%		
RUBRECKIA HIRTA	BLACKWEED SUSAN	2%		
GAILLARDIA ARISTATA	BLANKET FLOWER	1.50%		
SENNA HEBCARPA	WILD SENNA	1%		
PENSTEMON DIGITALIS	TALL WHITE BEARDTONGUE	1%		
PAPAYER RHOEAS	SHIRLEY MIX (CORN POPPY, SHIRLEY MIX)	0.60%		
ANDROPOGON GERARDII	BIG BLUESTEM	0.50%	20	0.46
ELYMUS CANADENSIS	CANADA WILDFLOWER	0.50%		
COREOPSIS TINCTORIA	PLAINS COREOPSIS	0.50%		
LAIUS SINCATA	BLAZING STAR	0.40%		
ASCLEPIAS SYRIACA	COMMON MILKWEED	0.40%		
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	0.40%		
ZIZIA AUREA	GOLDEN ALEXANDERS	0.30%		
ASCLEPIAS INCARNATA	SWAMP MILKWEED	0.30%		
MONARDA FISTULOSA	WILD BERGAMONT	0.20%		
PENSTEMON LAEVIGATUS	BEARDTONGUE	0.20%		
SENNA MARIANDICA	MARYLAND SENNA	0.20%		
SOLIDAGO NEMORALIS	GRAY GOLDENROD	0.10%		
TRADISCANTIA OHIENSIS	OHIO SPIDERWORT	0.10%		
ASTER LAEVIS	SMOOTH BLUE ASTER	0.10%		
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	0.10%		
ASTER PRENANTHOIDES	ZIGZAG ASTER	0.10%		
HELIOPSIS MELANTHOIDES	OXEYE SUNFLOWER	0.10%		

MYCOTHIZIA INOCULANT - "TRANSPANT 1 STEP" AS MANUFACTURED BY ROOTS, INC. OR APPROVED EQUAL. USE PER MANUFACTURER'S RECOMMENDATIONS FOR TREES AND SHRUBS. FERTILIZER/LIME APPLY AS RECOMMENDED BY SOIL ANALYSIS.

TREES, AND SHRUBS: TREES AND SHRUBS SHALL BE NURSERY GROWN UNLESS OTHERWISE NOTED AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCATION OF THE PROJECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY AND WELL-DEVELOPED ROOT SYSTEMS. ALL TREES SHALL HAVE STRAIGHT SINGLE TRUNKS WITH THEIR MAIN LEADER INTACT UNLESS OTHERWISE STATED. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, LANDSCAPE ARCHITECT, HOWARD COUNTY PLANNING AND ZONING BOARD SHALL ONLY PERMIT SUBSTITUTIONS UPON WRITTEN APPROVAL. THEIR SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED ON THE DRAWINGS MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL TREES AND SHRUBS SHALL BE MULCHED IN ACCORDANCE WITH THE RESPECTIVE PLANTING DETAILS PROVIDED IN THE LANDSCAPING PLAN.

ALL PRUNING SHALL CONFORM TO THE TREE CARE INDUSTRY ASSOCIATION (TCIA) ANSI A300 (PART 1)

2017 PRUNING STANDARDS: PRUNING STANDARDS SHALL RECOGNIZE BUT, ARE NOT LIMITED TO, THE FOLLOWING PRUNING OBJECTIVES: MANAGE RISK, MANAGE HEALTH, DEVELOP STRUCTURE, PROVIDE CLEARANCE, MANAGE SIZE OR SHAPE, IMPROVE AESTHETICS, MANAGE PRODUCTION OF FRUIT, FLOWERS, OR OTHER PRODUCTS, AND/OR MANAGE WILDLIFE HABITAT. DEVELOPING STRUCTURE SHALL IMPROVE BRANCH AND TRUNK ARCHITECTURE, PROMOTE OR

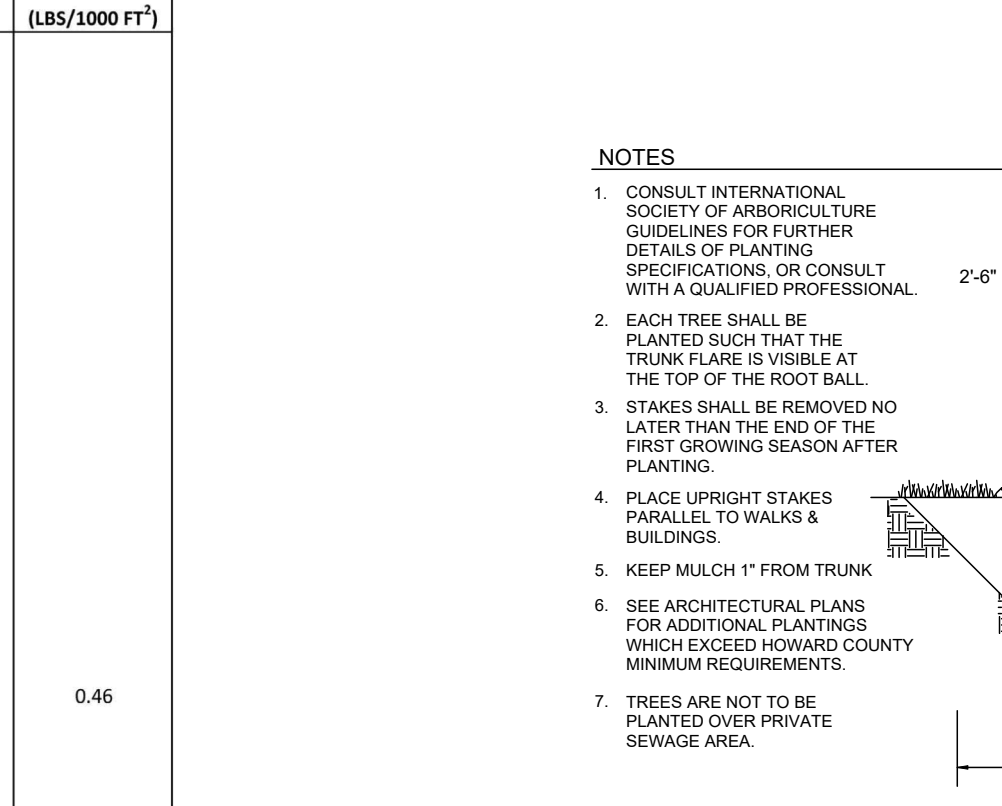
NOTE: NATIVE POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE AN EXCELLENT WILDLIFE FOOD AND SHELTER THAT WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE NATIVE WILDFLOWERS AND GRASSES IN THIS MIX PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL. POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE NECTAR AND FOOD SOURCES FOR A VARIETY OF POLLINATORS AND LARVA. THESE MIXES ARE COMPRISED OF A FAIRLY EVEN MIX OF NATIVE AND/OR INDIGENOUS WILDFLOWERS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 DATE: 5/12/2022

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.
 DocuSigned by:
 DATE: 3/25/2022

DEVELOPER: DATE:

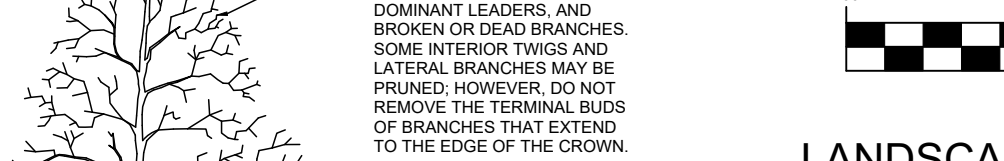
PLAN VIEW SCALE: 1"=100'



TYPICAL TREE PLANTING AND STAKING

DECIDUOUS TREES UP TO 2-1/2" CALIPER NOT TO SCALE

GRAPHIC SCALE (IN FEET) 1 INCH = 100 FEET



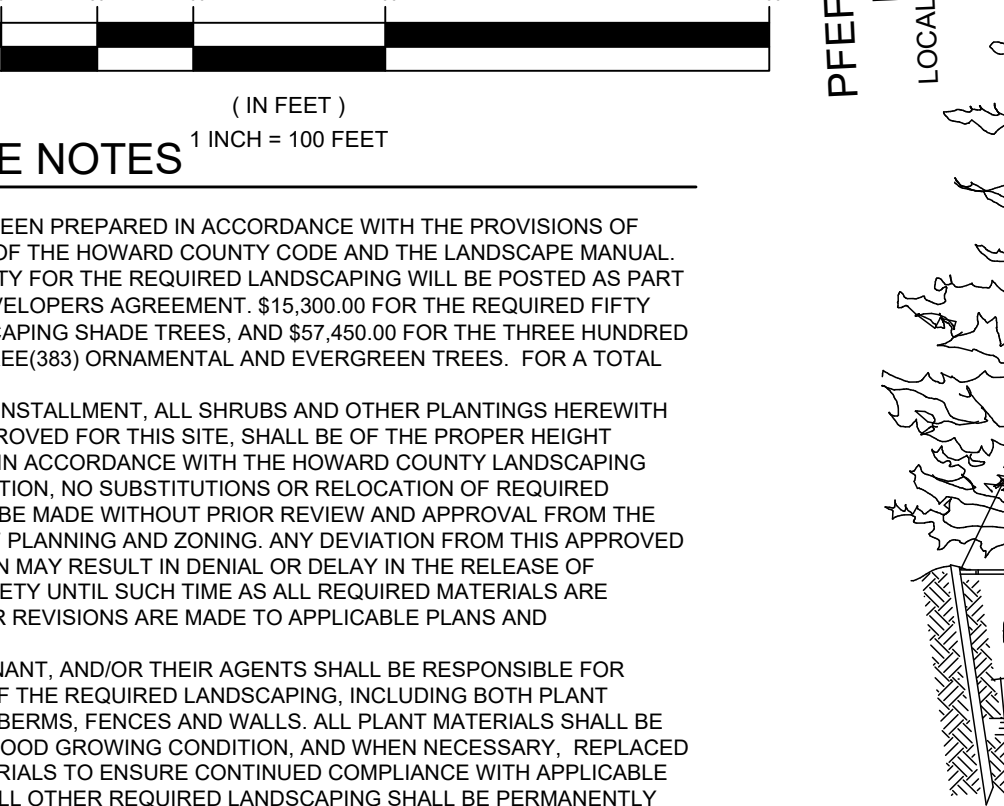
LANDSCAPE NOTES

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT. \$15,300.00 FOR THE REQUIRED FIFTY ONE (51) LANDSCAPING SHADE TREES, AND \$57,450.00 FOR THE THREE HUNDRED AND EIGHTY THREE (883) ORNAMENTAL AND EVERGREEN TREES. FOR A TOTAL OF \$72,750.00.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPING MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- PER BA-19-044C, ALL PERIMETER LANDSCAPE PLANTING HAS BEEN APPROVED AND IS TO BE A TYPE 'D' PERIMETER.

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTE
PO	29 + 2**	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2"- 3" CAL.	B & B FULL HEAD
NS	22	NYSSA SYLVATICA	BLACK TUPELO	2 1/2"- 3" CAL.	B & B
QR	20	QUERCUS RUBRA	NORTHERN RED OAK	2 1/2" CAL.	B & B
AC	7	AMELANCHIER CANADENSIS	SERVICEBERRY	2 1/2"- 3" CAL.	B & B, MULTI STEM
CC	3	CERCIS CANADENSIS	EASTERN REDBUD	2 1/2"- 3" CAL.	B & B, MULTI STEM
CF	6	CORNUS FLORIDA	FLOWERING DOGWOOD	2 1/2" CAL.	B & B
IO	131	ILEX OPACA	AMERICAN HOLLY	5'-6" HT.	B & B, FULL
JV	223	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	6'-8" HT.	B & B, FULL
TO	127	THUJA OCCIDENTALIS	ARBORVITAE	5'-6" HT.	B & B, FULL

NOTE: IF THERE IS A CONFLICT BETWEEN THE PLANT LIST AND THE PLANS, THE LARGER NUMBER PREVAILS.
 NOTE: PER THE FOREST CONSERVATION MANUAL, 6-8" HT. AT LOCATIONS WITHIN THE FOREST PRESERVATION EASMENTS.
 **NOTE: PER WP-21-098 TWO 3" CALIPER SHADE TREES ARE REQUIRED TO REPLACE ST-3. THESE HAVE BEEN ADDED TO BUFFER A.

TYPICAL EVERGREEN TREE PLANTING DETAIL



TYPICAL EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

BOTANICAL NAME	COMMON NAME	MIX CONCENTRATION	RATE (LBS/ACRE)	RATE (LBS/1000 FT ²)
FESTUCA RUBRA	CREeping RED FESCUE	34%		
FESTUCA OVINA	SHEEP FESCUE	33%		
FESTUCA BREVIFLUA 'BEACON'	HARD FESCUE 'BEACON'	10%		
FESTUCA OVINA VAR. DURIVISCUA 'RHINO'	HARD FESCUE 'RHINO'	5%		
FESTUCA OVINA VAR. GLAUCA (F. IRRUVENSIS) (F. GLAUCA) 'BLUE RAY'	BLUE FESCUE 'BLUE RAY'	5%	262	6
POA PRATENSIIS 'ARGYLE'	KENTUCKY BLUEGRASS 'ARGYLE'	5%		
POA PRATENSIIS 'SHAMROCK'	KENTUCKY BLUEGRASS 'SHAMROCK'	5%		
AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE		3%		

GRASS SEED MIXES ARE COMPRISED OF GRASSES THAT ARE NATIVE AND/OR INDIGENOUS TO THE AREA AND/OR CONSIDERED FAVORABLE FOR WILDLIFE HABITAT AND SUSTAINABLE GROWTH. ADDITIONALLY, THE SOLAR FARM SEED MIX WAS DEVELOPED ESPECIALLY FOR NATIVE GRASS PLANTINGS ON SOLAR ARRAY FIELDS AND SHALL BE UTILIZED ACCORDINGLY. THESE GRASSES WILL MATURE OUT TO A HEIGHT OF APPROXIMATELY 2 TO 2 1/2 FEET HIGH. THERE ARE NO WILDFLOWER OR POLLINATOR SEED SPECIES CONTAINED IN THESE NATIVE GRASS SEED MIXES.

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
PERIMETER FRONTAGE DESIGNATION	1	3
LINEAR FEET OF ROADWAY FRONTAGE PER PERIMETER	2204.6(D)	1326.4(D)
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES 1142.4	YES 860.4
REMAINING PERIMETER LENGTH (YES, NO, LINEAR FEET)	1062.2	365.0
REMAINING PERIMETER LENGTH NUMBER OF PLANTS REQUIRED	NO	NO
SHADE TREES	1:60=18	1:60=17
EVERGREEN TREES	1:10=107	1:10=97
NUMBER OF PLANTS PROVIDED	SEE NOTE 1	SEE NOTE 2
SHRUBS	1:60=18	1:60=37
EVERGREEN TREES	1:10=107	1:10=221
SHRUBS	-	-

- NOTE:
- UNDER STORY TREES SUBSTITUTED FOR 2 SHADE TREES.
 - 12 UNDER STORY TREES SUBSTITUTED FOR 6 SHADE TREES.
 - THERE ARE 11 SHADE TREES AND 56 EVERGREEN TREES IN BUFFERS A AND B PER BA-19-044C. (SEE NOTE 5 FOR AN UPDATE)
 - 22 SHADE TREES AND 114 EVERGREEN/ORNAMENTAL TREES ARE EXEMPT FROM LANDSCAPING SURETY AS THEY ARE IN THE FOREST CONSERVATION SURETY.
 - AS PART OF THE REQUIREMENT OF WP-21-098, TWO SHADE TREES HAVE BEEN ADDED. THEY ARE LOCATED IN BUFFER A, FOR A TOTAL OF 13 SHADE TREES.

*NO PERIMETER PLANTING REQUIRED FOR PERIMETER 4. SINCE THIS IS A JOINT DEVELOPMENT WITH PARCEL 146, SDP-21-047, PER BA-19-044C, ALL PERIMETERS TO BE A TYPE 'D'.

LANDSCAPE PLAN

SUNEAAT CLEAR VIEW FARM SOLAR FACILITY

13370 ROUTE 144
 3RD ELECTION DISTRICT
 PARCEL 73
 HOWARD COUNTY, MARYLAND

OWNER: CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@clearviewfarm.com
 GFSJR17@GMAIL.COM

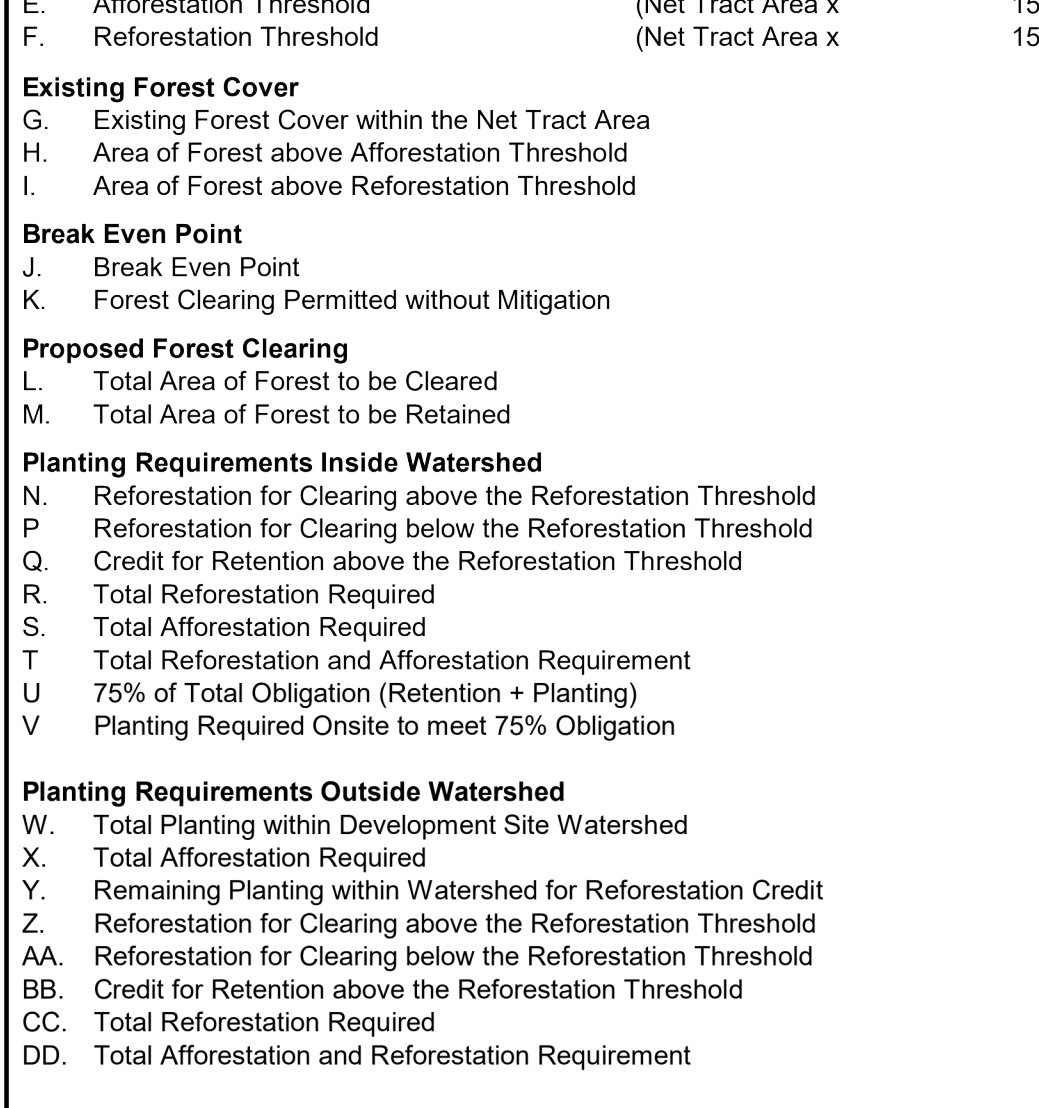
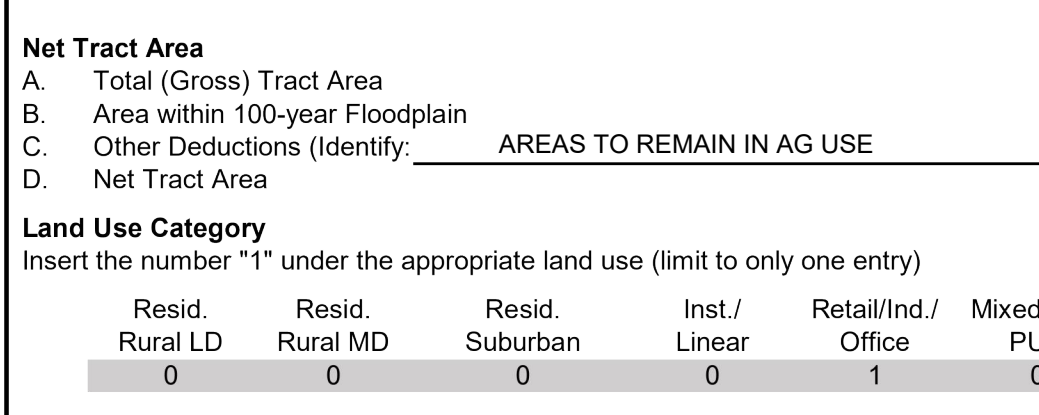
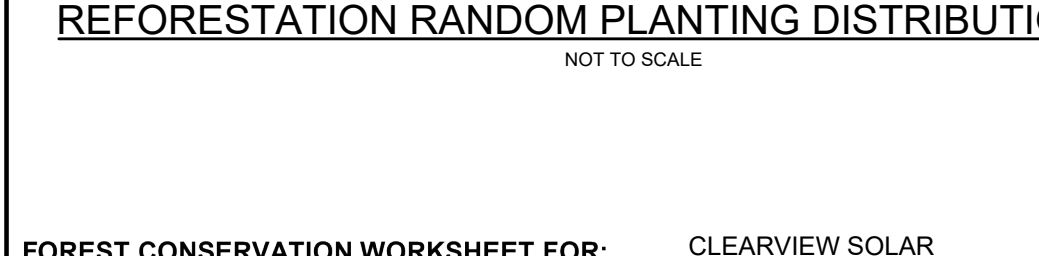
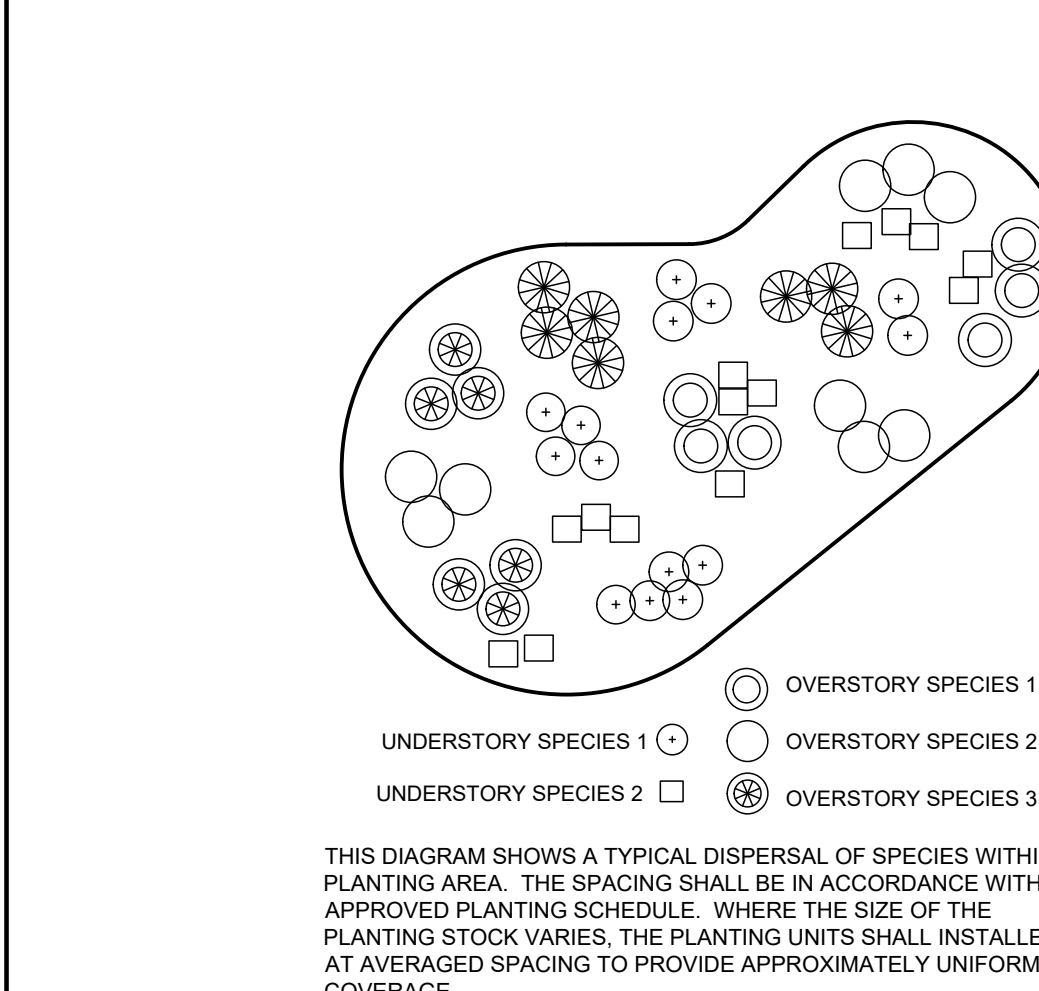
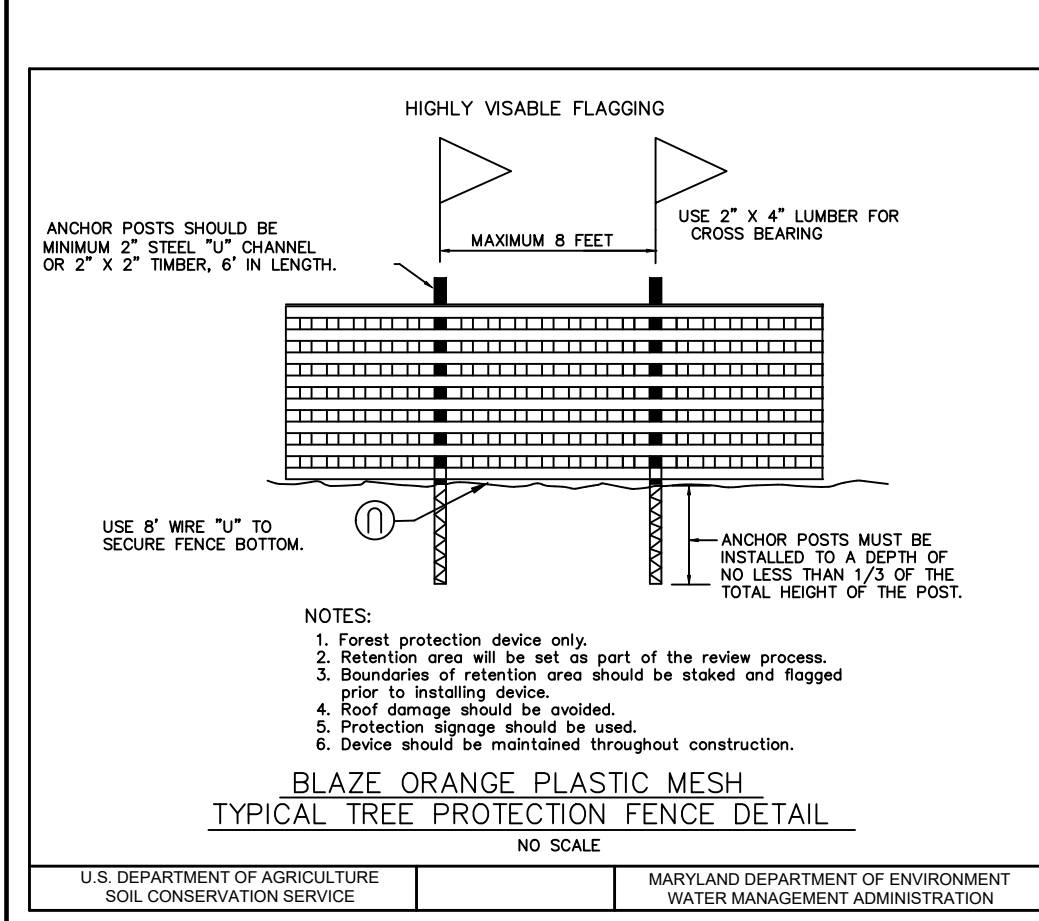
DEVELOPER: KDC SOLAR MARYLAND, LLC
 1420 US HIGHWAY 206, SUITE 120
 BEDMINSTER, NJ 07921
 WALTER SERAFYAN
 608-956-4260
 WALTER.SERAFYAN@CIENRENEW.COM

DESIGN BY: PS
 DRAWN BY: MOB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 24, 2022
 PROJECT #: 19-044
 SHEET #: 37 OF 38

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development
 PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

LEGEND

- LANDSCAPE PERIMETER INDICATOR: LANDSCAPE PER. 2
- EXISTING VEGETATION INDICATOR: 286 L.F. EXISTING VEGETATION
- PROPOSED EVERGREEN TREE: IO, OJV, TO
- PROPOSED DECIDUOUS TREE: QR, NS, CC, PO, CF
- EXISTING CONTOUR GIS: 382
- EXISTING CONTOUR FIELD RUN: 382
- PROPOSED CONTOUR: 382
- EXISTING SPOT ELEVATION: 382.3
- PROPOSED SPOT ELEVATION: +62.53
- DIRECTION OF FLOW: [Symbol]
- EXISTING TREELINE: [Symbol]
- PROPOSED TREELINE: [Symbol]
- EXISTING WETLAND: W
- EXISTING 25' WETLAND BUFFER: WB
- EXISTING STREAM: [Symbol]
- EXISTING 100' STREAM BUFFER: SB
- EXISTING 100-YEAR FLOODPLAIN: [Symbol]
- PROPOSED FENCE LINE: X X X X
- PROPOSED UTILITY: E E E E
- EXISTING SPECIMEN TREE: ST#6
- EXISTING SPECIMEN TREE TO BE REMOVED: [Symbol]
- PROPOSED SOLAR PANELS: [Symbol]
- PROPOSED GATE: [Symbol]



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
15/12/2022
CHIEF DEVELOPER: [Signature] 5/12/2022
CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] 5/20/2022
DIRECTOR: [Signature]

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
DocuSigned by: Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER: [Signature] HOWARD COUNTY HEALTH DEPARTMENT

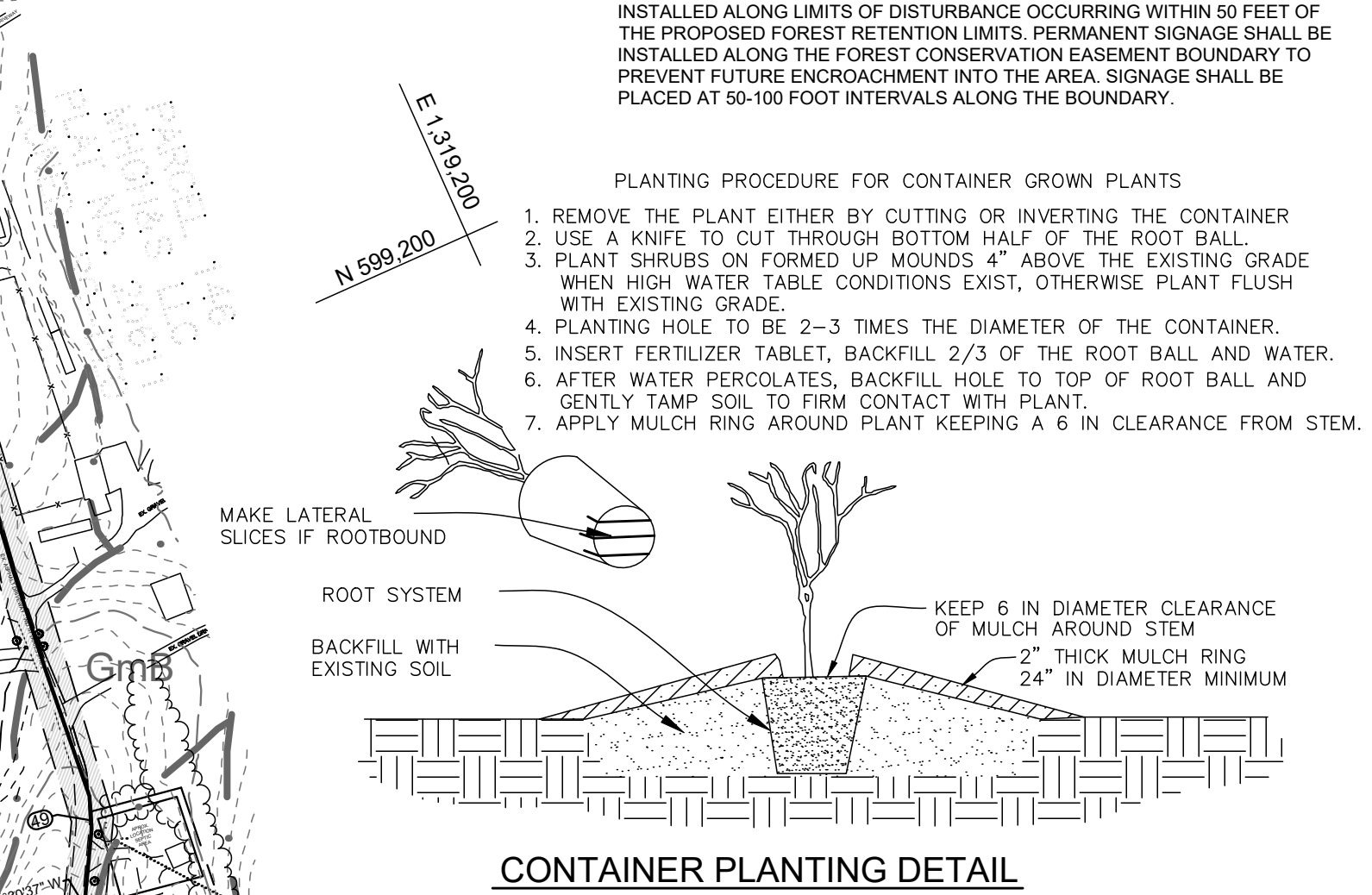


SPECIMEN TREE TABLE

KEY	DBH	SPECIES	CRZ (FEET)	AGE (YEARS)	REMARKS/CONDITION	RETAINED/REMOVED
ST-1	33"	SYCAMORE	49.5	82.5+/-	FAIR, HEAVY VINES	TO BE RETAINED
ST-2	39.5"	BLACK OAK	59.25	98.75+/-	POOR, DIEBACK IN CANOPY	TO BE RETAINED
ST-3	45"	SHINGLE OAK	67.5	112.5+/-	POOR, STORM DAMAGE AND DIEBACK	TO BE REMOVED
ST-4	38.35"	WHITE OAK	57.525	95.87+/-	GOOD CONDITION	TO BE RETAINED
ST-5	64"	SILVER MAPLE	96	192+/-	VERY POOR CONDITION	TO BE RETAINED
ST-6	52"	WALNUT	78	234+/-	FAIR CONDITION	TO BE RETAINED
ST-7	38.5"	WALNUT	57.75	173.25+/-	GOOD CONDITION	TO BE RETAINED

FOREST CONSERVATION NOTES

- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AND THE FOREST CONSERVATION MANUAL BY ON-SITE RETENTION, AND AFFORESTATION/REFORESTATION OF 6.4 ACRES OF FOREST. FINANCIAL SURETY FOR THE 6.2 ACRES (270,072 SF) TO BE IN AFFORESTATION/REFORESTATION WILL BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT AT \$0.50 PER SQUARE FOOT, OR \$135,036.00.
- NO RARE, THREATENED OR ENDANGERED SPECIES, OR THEIR HABITATS, WERE OBSERVED ON THE PROPERTY.
- SURROUNDING LAND USE IS PRIMARILY RURAL RESIDENTIAL DEVELOPMENT. FOREST IS PRESENT WITHIN THE LIMITS OF THE SUBJECT PROPERTY.
- THE SITE IS LOCATED WITHIN THE MIDDLE PATUXENT WATERSHED (02-12-09). THIS SECTION OF THE WATERSHED IS CLASSIFIED AS A USE IV-P.
- THERE IS ONE KNOWN HISTORIC STRUCTURE, 13370 FREDERICK ROAD, HISTORIC BUILDING HO-375. NO CEMETERIES ARE KNOWN TO OCCUR ON THE PROPERTY.
- A 100 YEAR FLOODPLAIN IS PRESENT ON THE PROPERTY.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS ALTERNATIVE COMPLIANCE HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
- THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION WITH AREAS DEFINED AS FOREST CONSERVATION EASEMENTS.
- NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AREAS, ETC. SHALL OCCUR WITHIN AREAS DESIGNATED AS NON-DISTURBANCE AREAS.
- TEMPORARY FENCING, SUPER SILT FENCE, SHALL BE USED TO PROTECT FOREST RESOURCES DURING CONSTRUCTION. SUPER SILT FENCE SHALL BE INSTALLED ALONG LIMITS OF DISTURBANCE OCCURRING WITHIN 50 FEET OF THE PROPOSED FOREST RETENTION LIMITS. PERMANENT SIGNAGE SHALL BE INSTALLED ALONG THE FOREST CONSERVATION EASEMENT BOUNDARY TO PREVENT FUTURE ENCROACHMENT INTO THE AREA. SIGNAGE SHALL BE PLACED AT 50-100 FOOT INTERVALS ALONG THE BOUNDARY.



REFORESTATION PLANTING SCHEDULE

FCE A AND B AND C - 1.1 ACRE, 1.23 ACRE, AND 3.93 ACRE, TOTAL 6.26 ACRES OR 272,685.6 SF. LESS 34,750 SF. CREDIT FOR LANDSCAPE PLANTS, (UNDER 20%) = 6.4 ACRES OR 237,935.6 SF.

PLANTING UNITS REQUIRED: 2,184.8
PLANTING UNITS PROVIDED: 2,185

QUANTITY	SPECIES	SIZE	SPACING	EQUIVALENT AREA/TREE	TOTAL FCA
546	ACER RUBRUM - RED MAPLE	1 GAL.	10' x 10'	108.9 sf/tree	59,459.4
546	LIRIODENDRON TULIPIFERA - TULIP POPLAR	1 GAL.	10' x 10'	108.9 sf/tree	59,459.4
546	PRUNUS SEROTINA - BLACK CHERRY	1 GAL.	10' x 10'	108.9 sf/tree	59,459.4
547	QUERCUS ALBA - WHITE OAK	1 GAL.	10' x 10'	108.9 sf/tree	59,568.3
2,185	TOTAL 1 GAL. TREES				
TOTAL CREDIT					237,946.5 SF.

PLANTING NOTES:

- PLANTING DENSITY BASED ON 400 PLANTING UNITS PER ACRE, 1 GAL., 10' x 10' SPACING, OR 100 SQ. FT. PER PLANT.
- PLANTING SHALL BE MADE IN A CURVILINEAR FASHION ALONG CONTOUR. THE PLANTING SHOULD AVOID A GRID APPEARANCE BUT SHOULD BE SPACED TO FACILITATE MAINTENANCE.
- MULTIFLORA ROSE/HEAVY BRUSH REMOVAL/CONTROL MAY BE REQUIRED PRIOR TO INSTALLATION OF PLANTING.
- ALL 1 GAL. CONTAINER TREES ARE REQUIRED TO BE INSTALLED WITH TREE SHELTERS PER HOWARD COUNTY FCA REQUIREMENTS. SHELTERS ARE NOT REQUIRED FOR 1" CALIPER TREES BUT ARE RECOMMENDED TO REDUCE DEER DAMAGE.

FOREST CONSERVATION PLAN
SUNEAAT CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER: CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER: KDC SOLAR MARYLAND, LLC
1420 US HIGHWAY 206, SUITE 120
BEDMINSTER, NJ 07921
WALTER SERAFYN
608-965-4360
WALTER.SERAFYN@CIRENEW.COM

TAX MAP 15 GRID 3
DESIGN BY: PS
DRAWN BY: MOB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 24, 2022
PROJECT #: 19-044
SHEET #: 38 of 38

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023

LEGEND

MODERATE SLOPES (15% TO 25%) [Symbol]
STEEP SLOPES (OVER 25%) [Symbol]

NOTE: SLOPES SHOWN ARE THOSE CONTAINED WITHIN THE CONDITIONAL USE AREA.

EXISTING CONTOUR [Symbol]
PROPOSED CONTOUR [Symbol]
EXISTING SPOT ELEVATION [Symbol]
PROPOSED SPOT ELEVATION [Symbol]
DIRECTION OF FLOW [Symbol]

EXISTING SPECIMEN TREE TO BE REMOVED [Symbol]
EXISTING SPECIMEN TREE TO BE RETAINED [Symbol]

EXISTING TREELINE [Symbol]
PROPOSED TREELINE [Symbol]

LIMIT OF DISTURBANCE [Symbol]
WETLAND BUFFER [Symbol]
STREAM BUFFER [Symbol]

EXISTING 100-YEAR FLOODPLAIN [Symbol]
TREE PROTECTION FENCE [Symbol]
SOIL BOUNDARY [Symbol]
PROPOSED PERMANENT SWALE [Symbol]

FOREST CONSERVATION SIGN [Symbol]
FOREST CONSERVATION AREA [Symbol]

FOREST PROTECTION GENERAL NOTES

- ALL FOREST RETENTION AREAS SHALL BE TEMPORARILY PROTECTED BY WELL ANCHORED BLAZE ORANGE PLASTIC MESH FENCING AND SIGNAGE AS INDICATED ON THE PLANS. THE DEVICES SHALL BE INSTALLED ALONG THE FOREST RETENTION BOUNDARY PRIOR TO ANY DEMOLITION, LAND CLEARING, GRUBBING, OR GRADING ACTIVITIES.
- THE FOREST PROTECTION DEVICES SHALL BE INSTALLED SUCH THAT THE CRITICAL ROOT ZONES OF ALL TREES WITHIN THE RETENTION AREA NOT OTHERWISE PROTECTED WILL BE WITHIN FOREST PROTECTION DEVICES.
- ALL PROTECTION DEVICES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION, INCLUDING SILT FENCE BEING USED AS PROTECTIVE FENCING. ALL DEVICES SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS CEASED IN THE IMMEDIATE VICINITY.
- ATTACHMENT OF SIGNS, OR ANY OTHER OBJECTS TO TREES IS PROHIBITED. NO EQUIPMENT, MACHINERY, VEHICLES, MATERIALS OR EXCESSIVE PEDESTRIAN TRAFFIC SHALL BE ALLOWED WITHIN THESE PROTECTED AREAS. INSTALLATION AND MAINTENANCE OF PROTECTIVE FENCING AND SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL TAKE THE UTMOST CARE TO PROTECT TREE ROOT SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES. TREE ROOT SYSTEMS SHALL BE PROTECTED FROM SMOTHERING, FLOODING, EXCESSIVE WETTING FROM DEWATERING OPERATIONS, OFF-SITE RUN OFF, SPILLAGE AND DRAINING OF MATERIALS THAT MAY BE HARMFUL TO TREES.
- THE GENERAL CONTRACTOR SHALL PREVENT PARKING OF CONSTRUCTION VEHICLES AND EQUIPMENT, AND THE STORING OF BUILDING SUPPLIES OR STOCKPILING OF EARTH WITHIN FOREST CONSERVATION EASEMENTS.
- REMOVAL OF TOPSOIL OR ROOT MAT WITHIN THE TREE PRESERVATION AREA SHALL BE PROHIBITED.
- THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY TREES DAMAGED OR DESTROYED WITHIN THE FOREST CONSERVATION EASEMENTS. ROOT PRUNING SHALL BE USED AT THE LIMIT OF DISTURBANCE. LIMIT OF GRADING, OR TREE PROTECTIVE FENCING WITHIN AND ADJACENT TO ALL SPECIMEN TREES AND EASEMENT AREAS TO BE PRESERVED, AS NECESSARY, ALL POSSIBLE PRECAUTIONS SHALL BE TAKEN TO NOT DAMAGE ROOTS ADJACENT TO DEMOLITION AREAS WHEN BUILDING WALLS OR FOUNDATIONS ARE BEING REMOVED, AND ESPECIALLY WITH PAVEMENT REMOVAL, WHERE ROOTS LIKELY EXIST WITHIN SUBBASE GRAVEL.

FOREST CONSERVATION EASEMENTS

EASEMENTS ARE A LEGAL MEANS OF PROVIDING PERMANENT PROTECTION OF FORESTS, FARMLAND AND OPEN SPACE. IN ACCORDANCE WITH THE CRITERIA OUTLINED IN THE HOWARD COUNTY FOREST CONSERVATION MANUAL, A FOREST CONSERVATION EASEMENT WILL BE RECORDED FOR THE RETENTION AREAS THE SUBJECT PROPERTY. SUBMISSION OF THE EASEMENTS FOR RECORDATION WILL OCCUR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

REVISIONS

NO.	DESCRIPTION	DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
15/12/2022
CHIEF DEVELOPER: [Signature] 5/12/2022
CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] 5/20/2022
DIRECTOR: [Signature]

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
DocuSigned by: Michael J. Davis 5/20/2022
COUNTY HEALTH OFFICER: [Signature] HOWARD COUNTY HEALTH DEPARTMENT