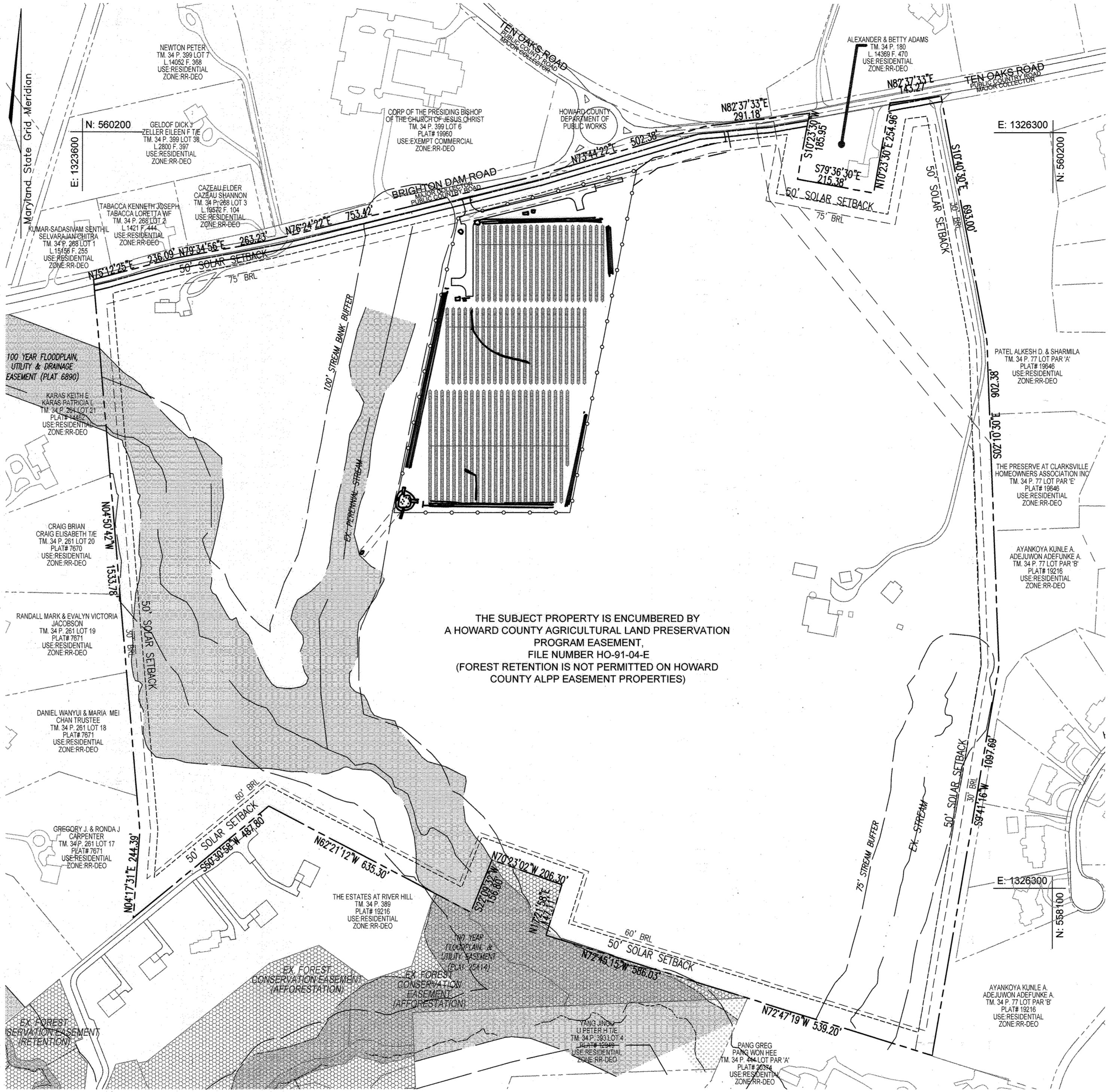


GENERAL NOTES

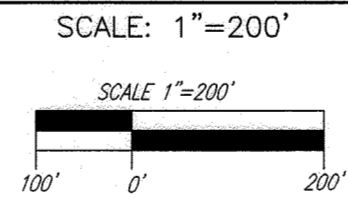
- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY STANDARDS AND SPECIFICATIONS...
2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK...
3. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING...
4. SITE ANALYSIS: TOTAL PARCEL AREA: 114.63 AC. PRESENT ZONING: RR-DEO...
5. PROJECT BACKGROUND: LOCATION: CLARKSVILLE, MD.; TAX MAP 34, BLOCK 211 PARCEL 43...
6. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK...
7. ANY DAMAGE TO PUBLIC HIGHWAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE...
8. THE SUBJECT PROPERTY IS ZONED "RR-DEO" IN ACCORDANCE WITH THE 10/6/13 ZONING REGULATIONS, AND IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/2/03 PER COUNCIL BILL 75-2003...
9. THE PROJECT BOUNDARY SHOWN HEREON IS BASED ON THE SURVEY PERFORMED BY VOGEL ENGINEERING+TIMMONS GROUP ON JANUARY 12, 2022...
10. THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY VOGEL ENGINEERING+TIMMONS GROUP, DATED AUGUST AND NOVEMBER, 2021. OFFSITE TOPOGRAPHY FROM HOWARD COUNTY GIS...
11. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NOS. 34FD AND 34ES WERE USED FOR THIS PROJECT...
12. STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF NON-STRUCTURAL AND STRUCTURAL PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. NON-STRUCTURAL PRACTICES INCLUDE NON-ROOFTOP DISCONNECT (N-2), STRUCTURAL PRACTICES INCLUDE ONE (1) BIORETENTION (F-6). THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED...
13. EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS, APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE...
14. ANY DAMAGE TO THE COUNTY'S RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE...
15. EXISTING STRUCTURES LOCATED ONSITE ARE TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLINGS ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATION REQUIREMENTS...
16. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
A) WIDTH - 12 FEET (18 FEET IF SERVING MORE THAN ONE RESIDENCE)
B) SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.)
C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING RADIUS
D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (425 LOADING)
E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
F) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
17. ALL DRIVEWAY ENTRANCES SHALL UTILIZE HOWARD COUNTY STANDARD DETAIL NO. R-6.06.
18. BRIGHTON DAM ROAD IS CLASSIFIED AS A MAJOR COLLECTOR. TEN OAKS ROAD IS CLASSIFIED AS A MAJOR COLLECTOR.
19. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
20. THIS PROPERTY IS NOT WITHIN THE METROPOLITAN DISTRICT.
21. WATER FOR THIS PROJECT IS PRIVATE.
22. SEWER FOR THIS PROJECT IS PRIVATE. THE HEALTH DEPARTMENT HAS NOT APPROVED THIS PROPERTY FOR WASTEWATER DISCHARGE.
23. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS OR CEMETERIES LOCATED ON THIS PROPERTY OR THE COUNTY'S CEMETERY SITE MAP.
24. WETLANDS, STREAMS AND THEIR BUFFERS SHOWN ONSITE ARE BASED ON ENVIRONMENTAL PLAN BY ECO-SCIENCE PROFESSIONALS, INC. C/O M/R JOHN CANNOLAS, DATED MARCH 17, 2022. THE WETLANDS ARE OUTSIDE LIMIT OF DISTURBANCE AND SHALL NOT BE DISTURBED.
25. THE REQUIRED FOREST CONSERVATION SHALL MEET THE INTENT OF SECTION 16.117 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. FOREST CONSERVATION REQUIREMENTS ARE BASED ON COUNCIL BILL CB82-2019. FOREST RETENTION IS NOT PERMITTED ON HOWARD COUNTY ALPP EASEMENT PROPERTIES. THE REQUIRED FOREST CONSERVATION SHALL BE SATISFIED BY THE PURCHASE OF FOREST PLANTING IN AN OFF-SITE MITIGATION BANK:
TOTAL FOREST CONSERVATION OBLIGATION OF THIS PROJECT TO BE FILLED BY:
1) THE PURCHASE OF 3.00 ACRES OF RETENTION CREDIT (3.00 / 2 = 1.50 ACRES) IN THE HEMEL PROPERTY FOREST BANK; SDP-05-132.
26. A TRAFFIC STUDY IS NOT REQUIRED. THE PROPOSED SOLAR FACILITY WILL GENERATE ONE TO TWO TRIPS PER MONTH FOR MAINTENANCE.
27. A NOISE STUDY IS NOT REQUIRED.
28. REFERENCE SOIL BORING CHART PREPARED BY HILLIS - CARNES ENGINEERING ASSOCIATES, INC. DATED MARCH 8, 2022 FOR SUBSURFACE EXPLORATION TESTING AT BORINGS 6-17.
29. THE PRE-SUBMISSION COMMUNITY MEETING WAS HELD FOR THIS PROJECT ON NOVEMBER 19, 2020 VIA THE ZOOM VIDEO CONFERRING PLATFORM.
30. THE ENVIRONMENTAL CONCEPT PLAN (ECP-22-028) WAS APPROVED PER LETTER DATED JANUARY 31, 2022.
31. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 12.4 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$20,700 SHALL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT:
-PERIMETER PLANTINGS IN THE AMOUNT OF \$1,200 FOR THE REQUIRED 4 SHADE TREES, AND \$19,500 FOR THE REQUIRED 130 EVERGREEN TREES.
32. SOIL TYPES SHOWN HEREON ARE IN ACCORDANCE WITH THE USDA NRCS WEB SOIL SURVEY.
33. A 100-YR FLOODPLAIN IS LOCATED ON-SITE BUT NOT WITHIN THE PROJECT AREA.
34. STEEP SLOPES ARE NOT LOCATED ON-SITE.
35. THIS PROJECT IS SUBJECT TO ZONING AND LAND USE BOARD OF APPEALS CASE BA-21-013C. ON JULY 14, 2021; THE ZONING AND LAND USE BOARD OF APPEALS GRANTED THE PETITION OF SOLARVEST ENERGY, LLC PROVIDED THAT THE PETITIONER MEET CERTAIN CONDITIONS. THE PETITIONER MET THE FOLLOWING CONDITIONS:
A. THE COMMERCIAL GROUND MOUNT SOLAR COLLECTOR FACILITY CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH THE PETITION AS SUBMITTED AND AS SHOWN ON THE CONDITIONAL USE PLAN DATED JULY 2021, AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.
B. PETITIONER SHALL COMPLY WITH ALL CONDITIONAL USE STANDARDS.
C. THE SITE DEVELOPMENT PLAN, OR ITS EQUIVALENT, SHALL INCLUDE A NOTE CONTAINING ALL CONDITIONS OF APPROVAL.
D. PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
E. THE SYSTEMS SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND PROVISIONS.
F. ANY COMMERCIAL SOLAR FACILITY THAT IS NO LONGER USED SHALL BE REMOVED BY THE PROPERTY OWNER FROM THE SITE WITHIN SIX MONTHS OF THE DATE THAT THE USE CEASES AND SHALL PROVIDE A BOND OR OTHER SURETY AS DETERMINED BY THE HOWARD COUNTY DIRECTOR OF FINANCE TO COVER THE COST OF FUTURE REMOVAL.
G. 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.
H. 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 DISCONNECTS.
I. TREE REMOVAL SHALL BE MINIMIZED, AND REFORESTATION SHALL BE DONE IN ACCORDANCE WITH SECTION 16.1026 OF THE HOWARD COUNTY CODE.
J. ALL REQUIRED LANDSCAPING SHALL BE PROVIDED WITHIN 6 MONTHS OF INSTALLATION OF THE SOLAR PANELS.
36. A KNOX LOCK SHALL BE LOCATED AT THE MAIN ENTRANCE.
37. ALL GATES SHALL NOT BE LOCATED CLOSER THAN 30 FT FROM AN INTERSECTION AND SHALL OPEN IN THE DIRECTION OF EMERGENCY VEHICLE TRAVEL.
38. PRIMARY ELECTRICAL DISCONNECT ARE THE SWITCHGEARS. THE SECONDARY DISCONNECT ARE THE TRANSFORMERS.
39. AN ELECTRICAL HAZARD SIGN AND EMERGENCY CONTACT INFORMATION SIGN SHALL BE LOCATED AT THE ENTRANCE.
40. PANEL LISTINGS AND FLAME SPREAD RATINGS SHALL BE LISTED AT THE ENTRANCE.
41. THE DEVELOPER SHALL PROVIDE TRAININGS TO THE FIRE DEPARTMENT FOR EVERY SOLAR SITE.
42. UPON DECOMMISSIONING OF THE SOLAR FACILITY THE PETITIONER/OPERATOR WILL REMOVE STORMWATER MANAGEMENT PRACTICES AND RESTORE ACCORDINGLY (AT THE REQUEST OF THE PROPERTY OWNER).
43. ALL ACCESS DRIVES FROM THE PUBLIC ROAD TO THE EQUIPMENT PAD TO BE 20' MINIMUM WIDTH AND CAPABLE OF SUPPORTING FIRE DEPARTMENT VEHICLES.
44. ISOLATED, SURFACE SMOOTHING AND/OR FINE GRADING MAY BE REQUIRED TO SUPPORT SOLAR EQUIPMENT INSTALLATION. HOWEVER, NO MASS GRADING WILL BE REQUIRED.
45. THE AREAS BENEATH AND AROUND THE SOLAR PANELS WILL BE PLANTED WITH A NATIVE GRASS/CLOVER (MEADOW POLLINATORS) MIX. IT IS UNDERSTOOD THAT IT TAKES 3-5 YEARS FOR THE CLOVER TO ESTABLISH AND MAY NOT BE PRESENT AT THE TIME OF CONSTRUCTION. THE GRASSES AND POLLINATORS PROVIDE ECOLOGICAL BENEFITS, INCLUDING POLLINATOR HABITAT AND FOOD.
46. THIS PROPERTY HAS A HISTORIC STRUCTURE LISTED AS HO-479, THE PERMISION BOTTOM FARM.
47. TRAFFIC CONTROL DEVICES:
A) THE R1-1(S)TR SIGN AND THE STREET NAME SIGN (SNS) ASSEMBLY FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETED.
B) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
C) ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
D) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL PERFORATED QUICK PUNCH, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL PERFORATED SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO QUICK PUNCH HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL FOLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
E) ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
48. THE SUBJECT PROPERTY IS ENCUMBERED BY A HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM EASEMENT, FILE NUMBER HO-91-04-E.
49. THE HOWARD COUNTY AGRICULTURAL PRESERVATION BOARD REVIEWED THE PROPOSED PROJECT ON SEPTEMBER 21, 2020 AND PROVIDED ADVISORY COMMENTS TO THE HEARING EXAMINER.
50. THE HISTORIC PRESERVATION COMMISSION REVIEWED THE PROPOSED PROJECT ON JULY 7, 2022 VIA VIRTUAL WEB MEETING/CONFERENCE CALL. THE HISTORIC STRUCTURE IS TO REMAIN. ALL WORK WITHIN THE BRIGHTON DAM ROAD PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE STANDARD MARYLAND STATE HIGHWAY ADMINISTRATION DETAILS: MD 10A-02-02 AND MD 10A-02-10 OR AS DIRECTED BY THE HOWARD COUNTY - TRAFFIC ENGINEERING DIVISION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CATEGORY 1 OF THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES, THE 2009 EDITION OF THE MUTCD, THE MUTCD, AND THIS PLAN. NO WORK IS TO BEGIN UNTIL AN ADVANCE WARNING SIGNAGE AND CONES ARE IN PLACE AND OPERATIONAL. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE CONSTRUCTION INSPECTION DIVISION (C.I.D.) INSPECTOR AND HOWARD COUNTY TRAFFIC TO REVIEW THE CONSTRUCTION SEQUENCE, AND ANY MDSHA M.O.T. DETAILS NOT SPECIFIED FOR THIS PROJECT.
51. A PAYMENT OF A FEE-IN-LEU OF CONSTRUCTION OF THE ROAD SECTION REQUIRED WAS REQUESTED AND APPROVED. THE APPROVED FEE-IN-LEU AMOUNT IS \$27,824.00.

SITE DEVELOPMENT PLAN
TEN OAKS SOLAR
12751 BRIGHTON DAM ROAD
CLARKSVILLE, MD 21029



THE SUBJECT PROPERTY IS ENCUMBERED BY A HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM EASEMENT, FILE NUMBER HO-91-04-E (FOREST RETENTION IS NOT PERMITTED ON HOWARD COUNTY ALPP EASEMENT PROPERTIES)

LOCATION MAP

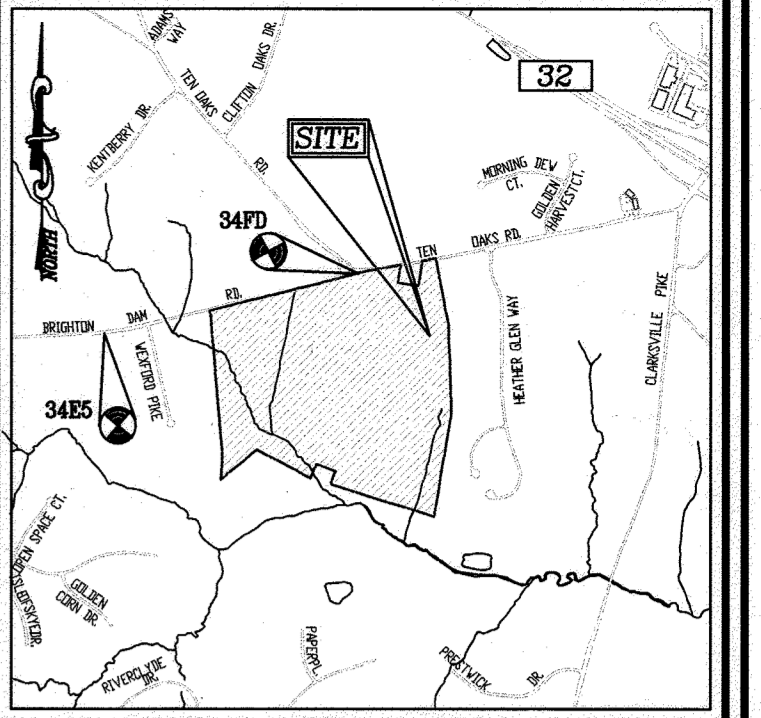


BENCHMARKS

HOWARD COUNTY BENCHMARK 34FD
N 560,162.580 E 1,325,180.368 ELEV. 437.493
HOWARD COUNTY BENCHMARK 34ES
N 559,538.074 E 1,322,535.882 ELEV. 460.449

LEGENDS:

- PARCEL BOUNDARY
ADJACENT BOUNDARY
PREScriptive RIGHT-OF-WAY
RIGHT-OF-WAY RESERVATION
50' SOLAR SETBACK
BUILDING RESTRICTION LINE
EXISTING PAVING
EXISTING TREE LINE
STREAM CENTERLINE
STREAM BUFFER
EXISTING FOREST CONSERVATION AREA
100-YEAR FLOODPLAIN
SECURITY FENCE
PROPOSED PAVING



VICINITY MAP
SCALE: 1"=200'
ADC MAP COORDINATES: PAGE 31 / GRID B-C 2

SHEET INDEX

Table with 2 columns: DESCRIPTION and SHEET NO. Lists various plan sheets like COVER SHEET, LAYOUT PLAN, SITE DETAILS, etc.



AS-BUILT CERTIFICATION FOR PSWM
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.
P.E. NAME: Robert M. Vogel, P.E.#: 16193, DATE: 5-6-24

DEVELOPER: TEN OAKS SOLAR LLC, C/O NAUTILUS SOLAR ENERGY, LLC, 396 SPRINGFIELD AVENUE, SUITE 200, SUMMIT, NJ 07901, ATTN: JEFFREY CHENG, 650-302-9315, JEFF@NAUTILUSSOLAR.COM
OWNER: E. ALEXANDER AND BETTY SMITH ADAMS TRUSTEES OF THE RICHARD WARFIELD TRUST, 6096 KEYSER ROAD, HUME VA 22639, 410-531-9655

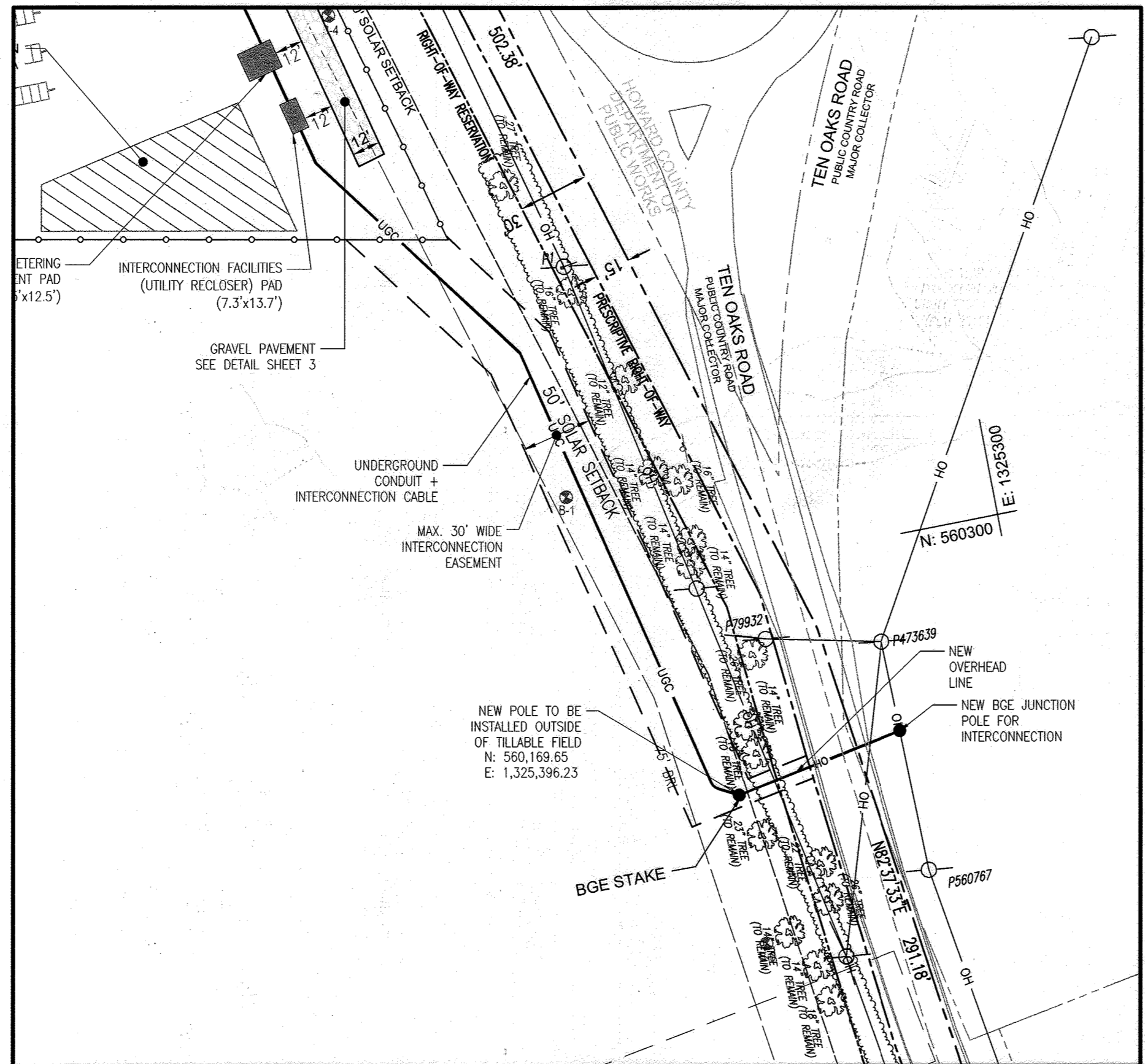
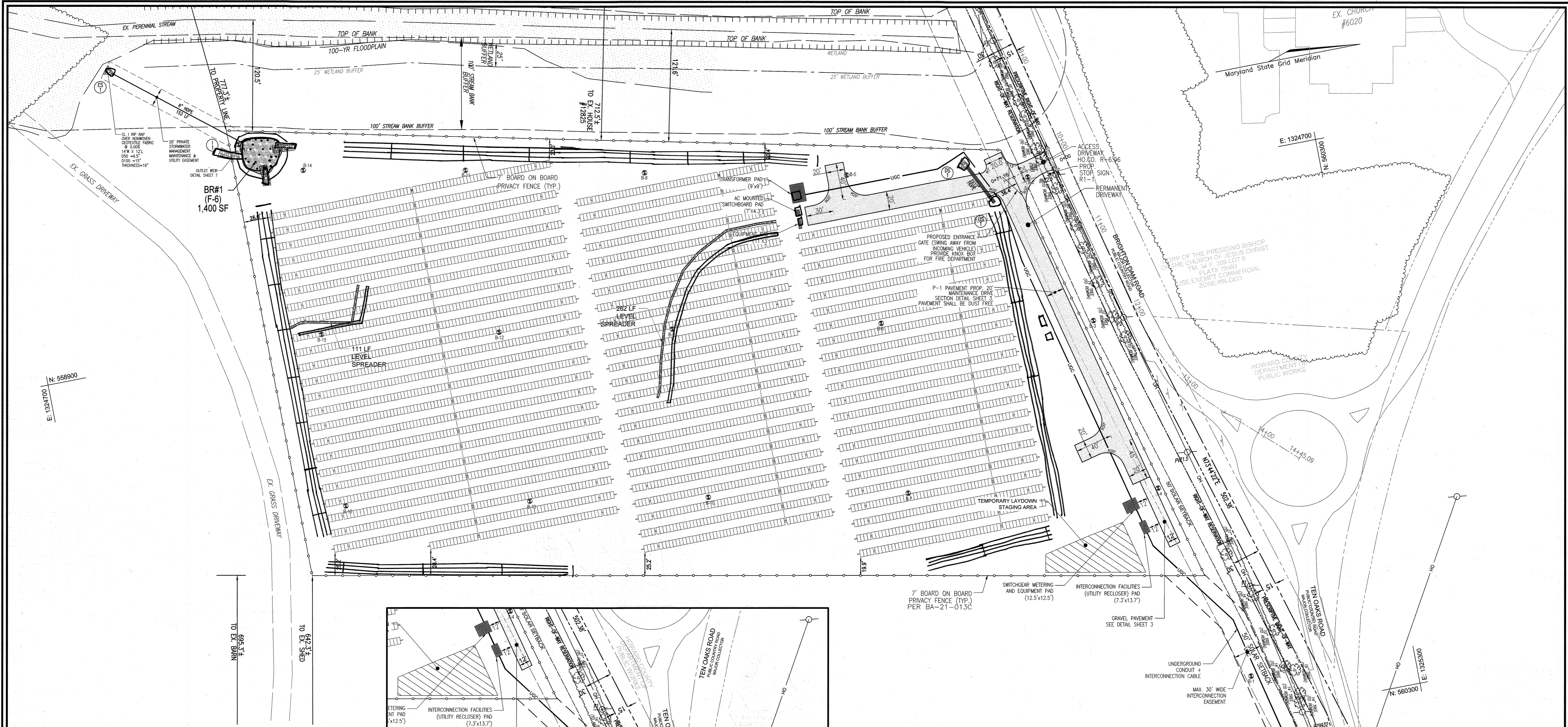
Site Development Plan Cover Sheet for Ten Oaks Solar. Includes project address, developer and owner information, and the logo for Vogel Engineering and Timmons Group. Also includes a professional certificate section.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division: Chad Edmondson, 3/29/2023
Chief, Division of Land Development: Amy Green, 3/29/2023
Director: [Signature], [Date]

STORMWATER MANAGEMENT PRACTICES

Table with 4 columns: PARCEL NO., STREET ADDRESS, FACILITY TYPE & M&DE NO., and OWNER. Shows details for parcel 43 at 12751 Brighton Dam Road.

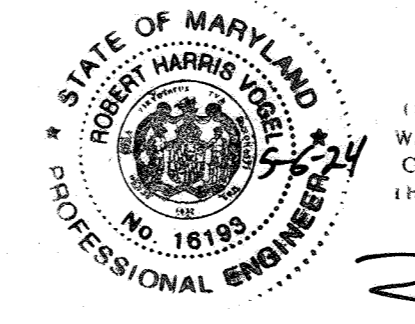
ADDRESS CHART and PERMIT INFORMATION CHART. Includes building address (12751 Brighton Dam Road) and permit details like subdivision name, section/area, and lot/parcel number.



CENTERLINE STATION EQUATION CHART				
STATION EQUIVALENCE	STATIONS	LENGTH	BEARING	COORDINATES
10+14.03 (BRIGHTON DAM ROAD)	0+00 - 0+71.16	71.16'	S13°45'19"E	N: 560,029.49 E: 1,324,663.75
0+00 (ACCESS DRIVE)				COORDINATES FOR 0+00 STATION

LAYOUT PLAN
 SCALE: 1" = 50'
 SCALE 1"=50'

- NOTES:**
- SEE SHEET 5 FOR RIPRAP ROCK OUTLET PROTECTION.
 - SEE SHEET 7 AND 8 FOR STORM DRAIN STRUCTURE SCHEDULES.



AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.
 P.E. NAME: [Signature] P.E.#: 16193 DATE: 5-6-24

- LEGENDS:**
- PARCEL BOUNDARY
 - ADJACENT BOUNDARY
 - PRESCRIPTIVE RIGHT-OF-WAY
 - RIGHT-OF-WAY RESERVATION
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - STREAM CENTERLINE
 - STREAM BUFFER
 - WETLAND BUFFER
 - SOILS BOUNDARY
 - EXISTING TREELINE
 - UGC
 - UNDERGROUND MEDIUM VOLTAGE
 - SOIL BORING
 - ROAD CENTERLINE
 - PRIVACY FENCE

OWNER
 E. ALEXANDER AND BETTY SMITH ADAMS TRUSTEES OF THE RICHARD WARFIELD TRUST, 6096 KEYSER ROAD, HUME VA 22639 410-531-9655

DEVELOPER
 TEN OAKS SOLAR LLC, C/O NAUTILUS SOLAR ENERGY, LLC 396 SPRINGFIELD AVENUE SUITE 200 SUMMIT, NJ 07901 ATTN: JEFFREY CHENG 650-302-9315 JEFF@NAUTILUSSOLAR.COM

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
LAYOUT PLAN
TEN OAKS SOLAR
 12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
 DEED L.14369 F.464
 TAX MAP 34 BLOCK 11 5TH ELECTION DISTRICT
 ZONED RR-DEO PARCEL 43 HOWARD COUNTY, MARYLAND

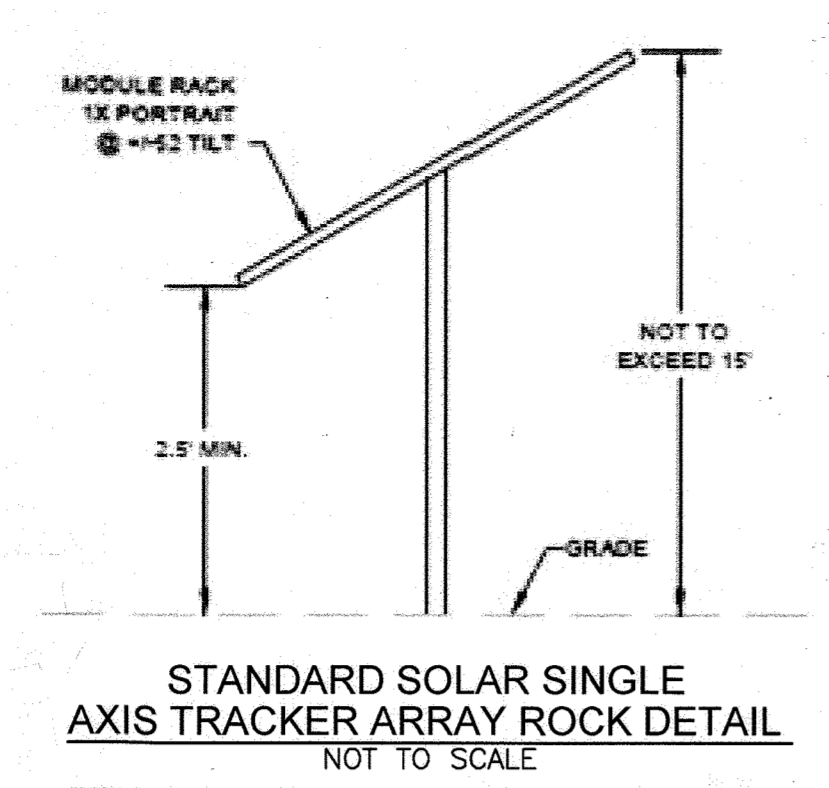
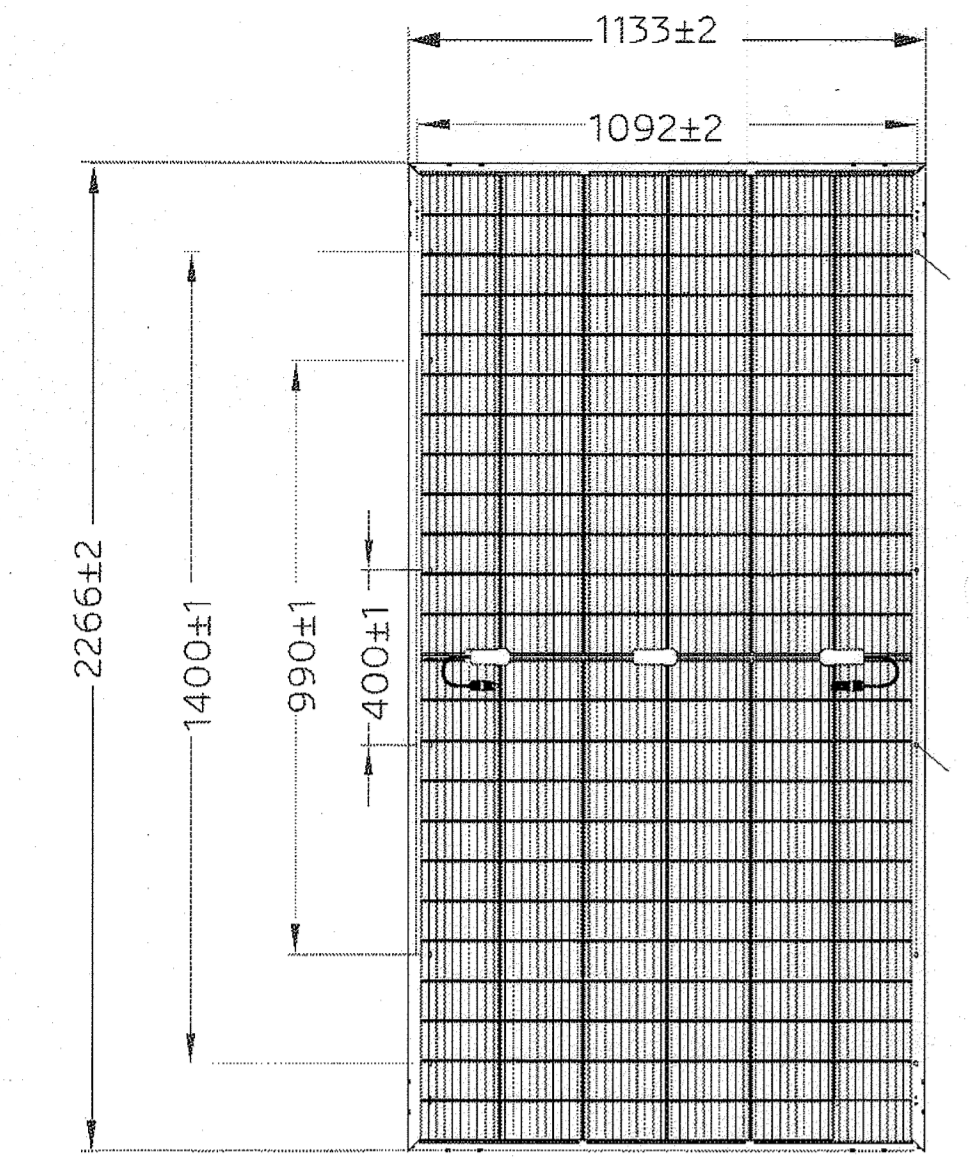
VOGEL ENGINEERING
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
 DESIGN BY: RHV
 DRAWN BY: IMH
 CHECKED BY: RHV
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 48576

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. 16193 EXPIRATION DATE 09-27-2024

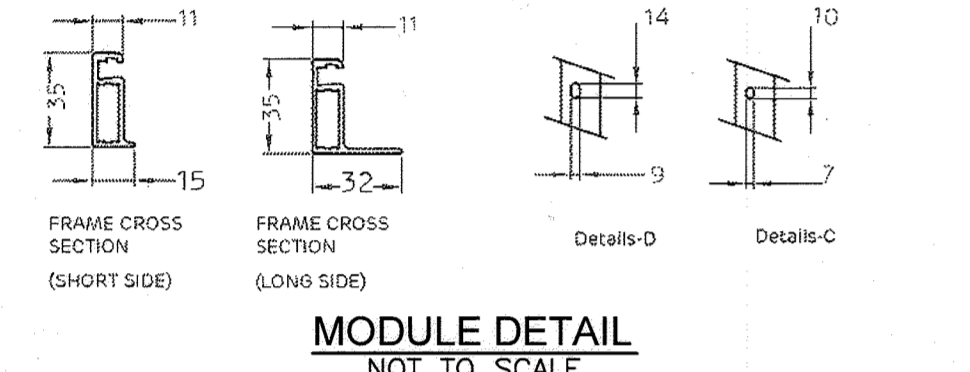
2 SHEET OF 12

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 3/29/2023
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

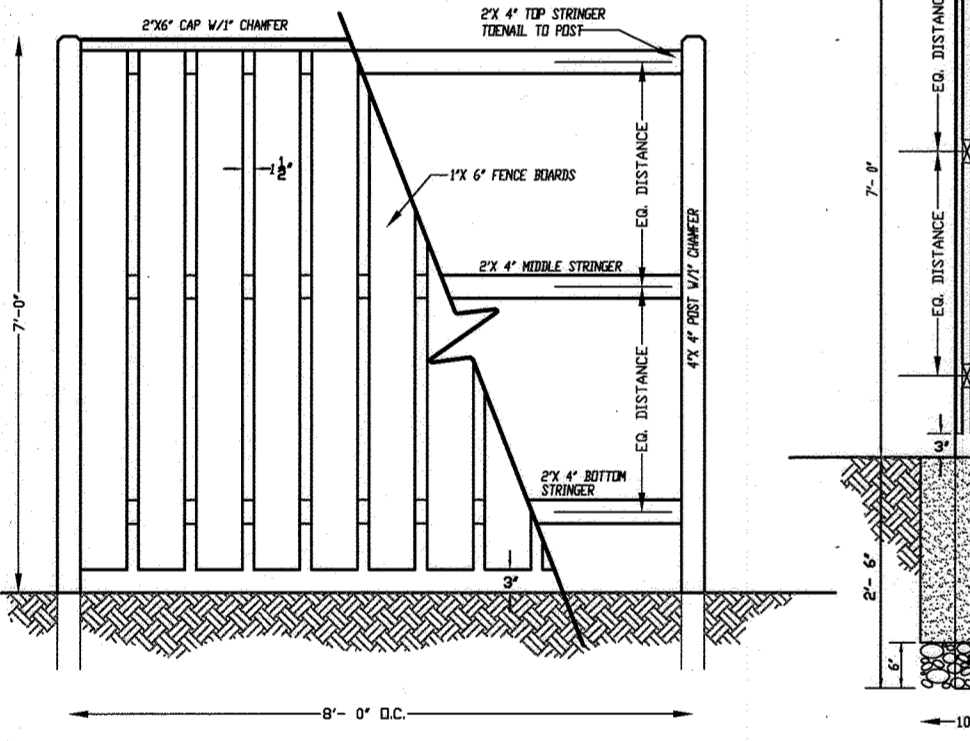
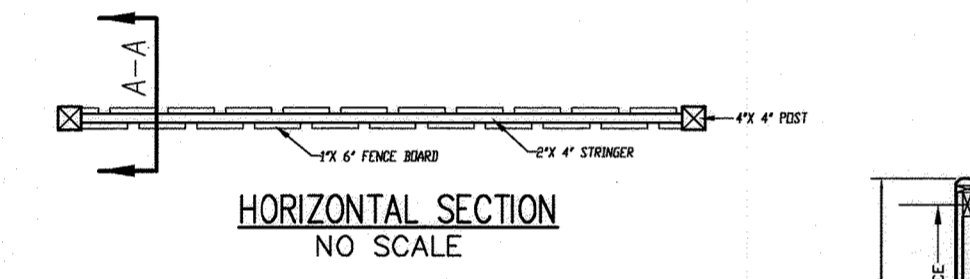


STANDARD SOLAR SINGLE AXIS TRACKER ARRAY ROCK DETAIL
NOT TO SCALE

THE PROPOSED LAYOUT OF THE SOLAR PANELS AND THE EXISTING GRADUAL SLOPES BELOW THE PANELS ALLOW THE DISCONNECTION OF NON-ROOFTOP RUNOFF TECHNIQUE TO ADDRESS THE STORMWATER MANAGEMENT REQUIREMENTS FOR THIS PROJECT.



MODULE DETAIL
NOT TO SCALE



WOODEN FENCE DETAIL (ELEVATION)
NO SCALE

SECTION A-A
NO SCALE

NOTES:
1. FENCE ALONG ALL SIDES OF THE SOLAR FACILITY SHALL BE BOARD ON BOARD WOOD PRIVACY FENCE INSTALLED AT A MINIMUM OF 7' IN HEIGHT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

3/29/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION

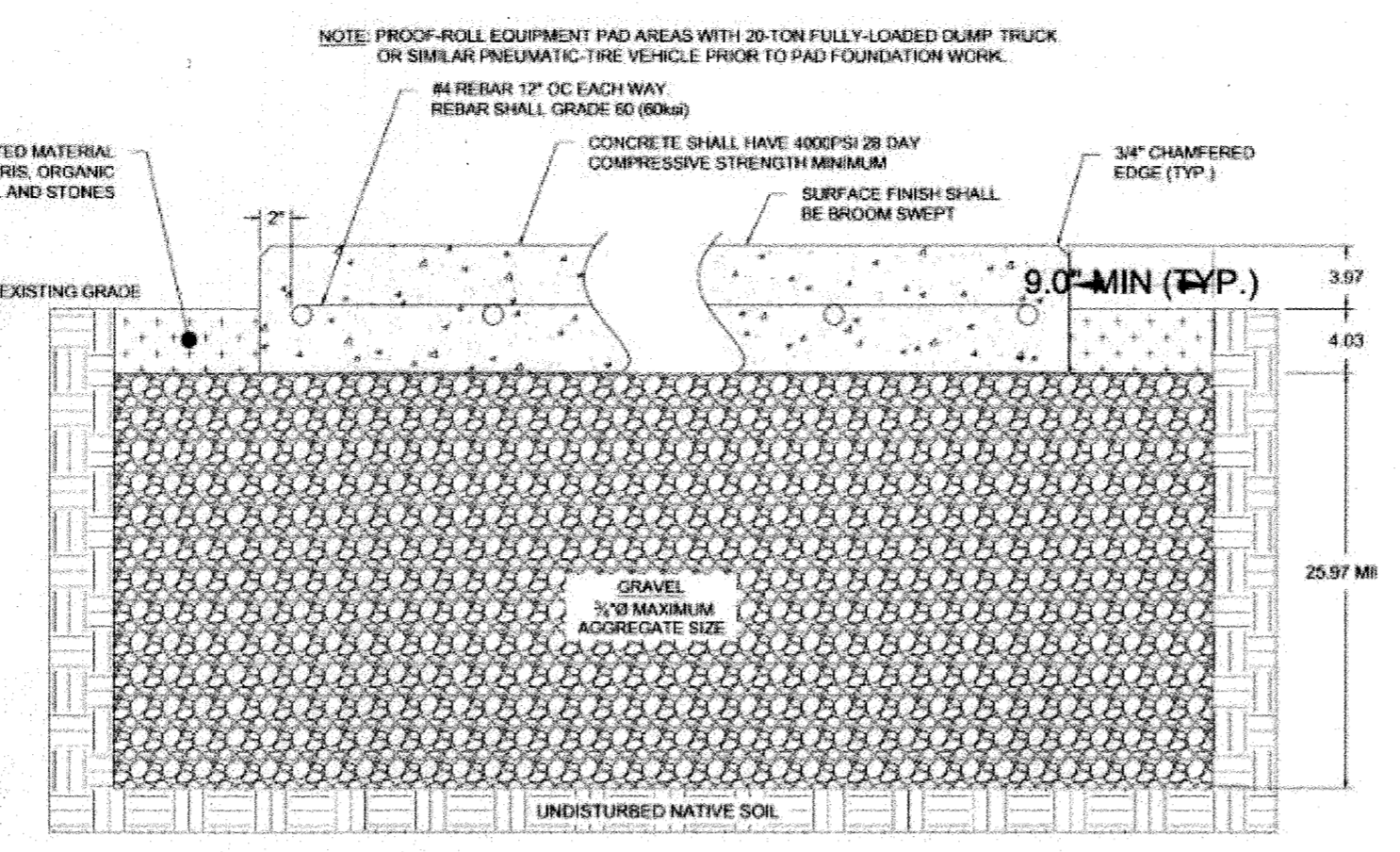
DATE 3/29/2023

CHIEF, DIVISION OF LAND DEVELOPMENT

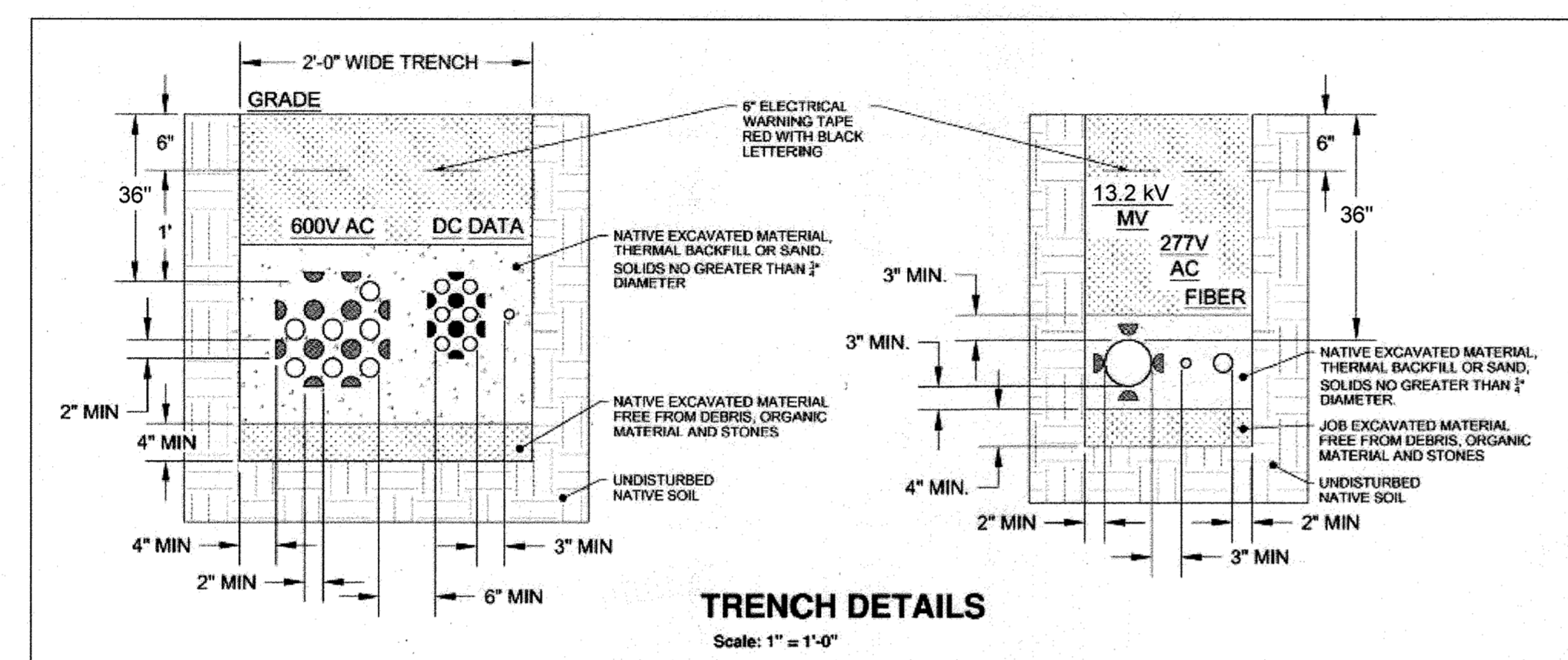
DATE 3/29/2023

DIRECTOR

DATE



SWITCHGEAR PAD DETAIL
NOT TO SCALE



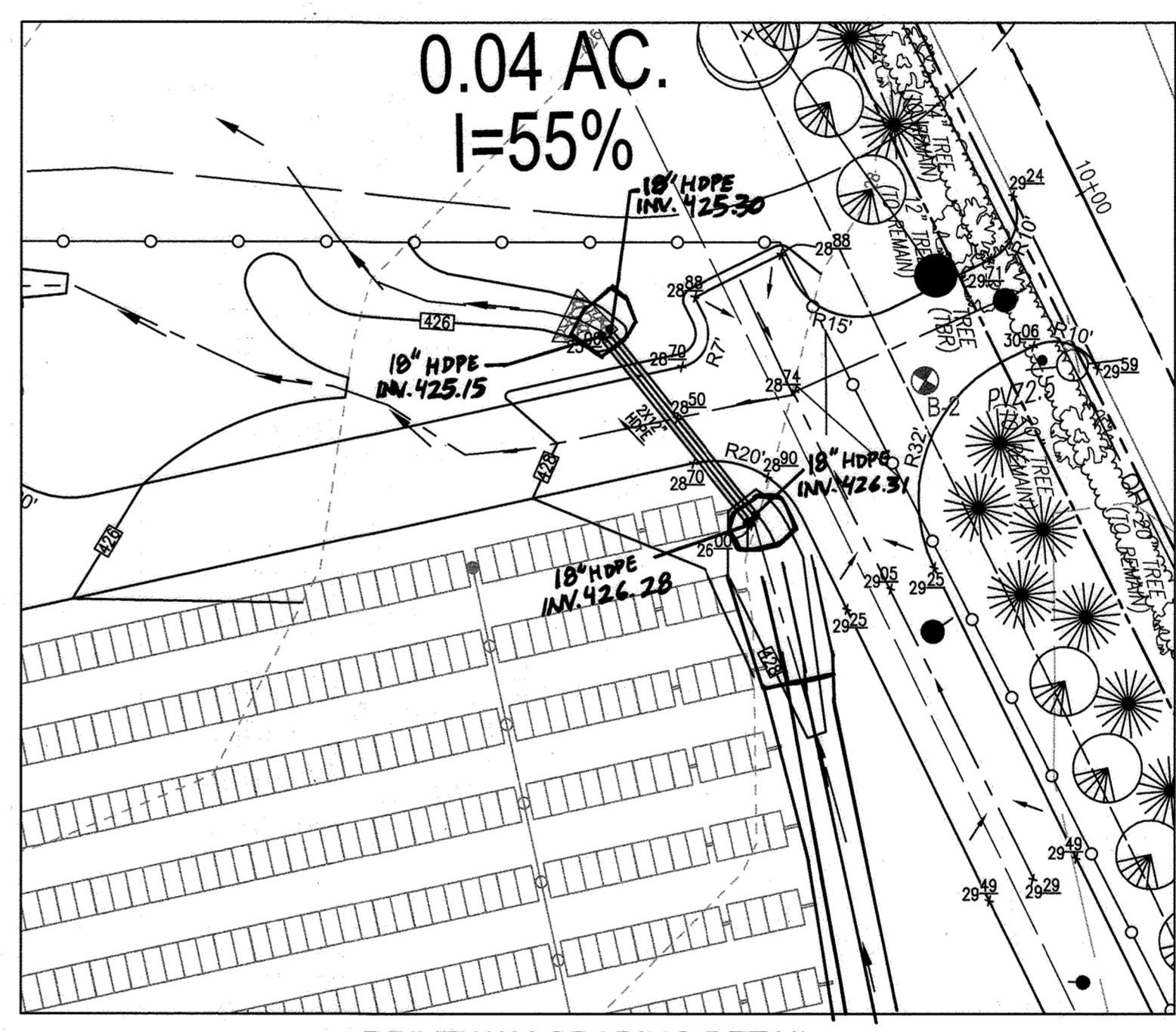
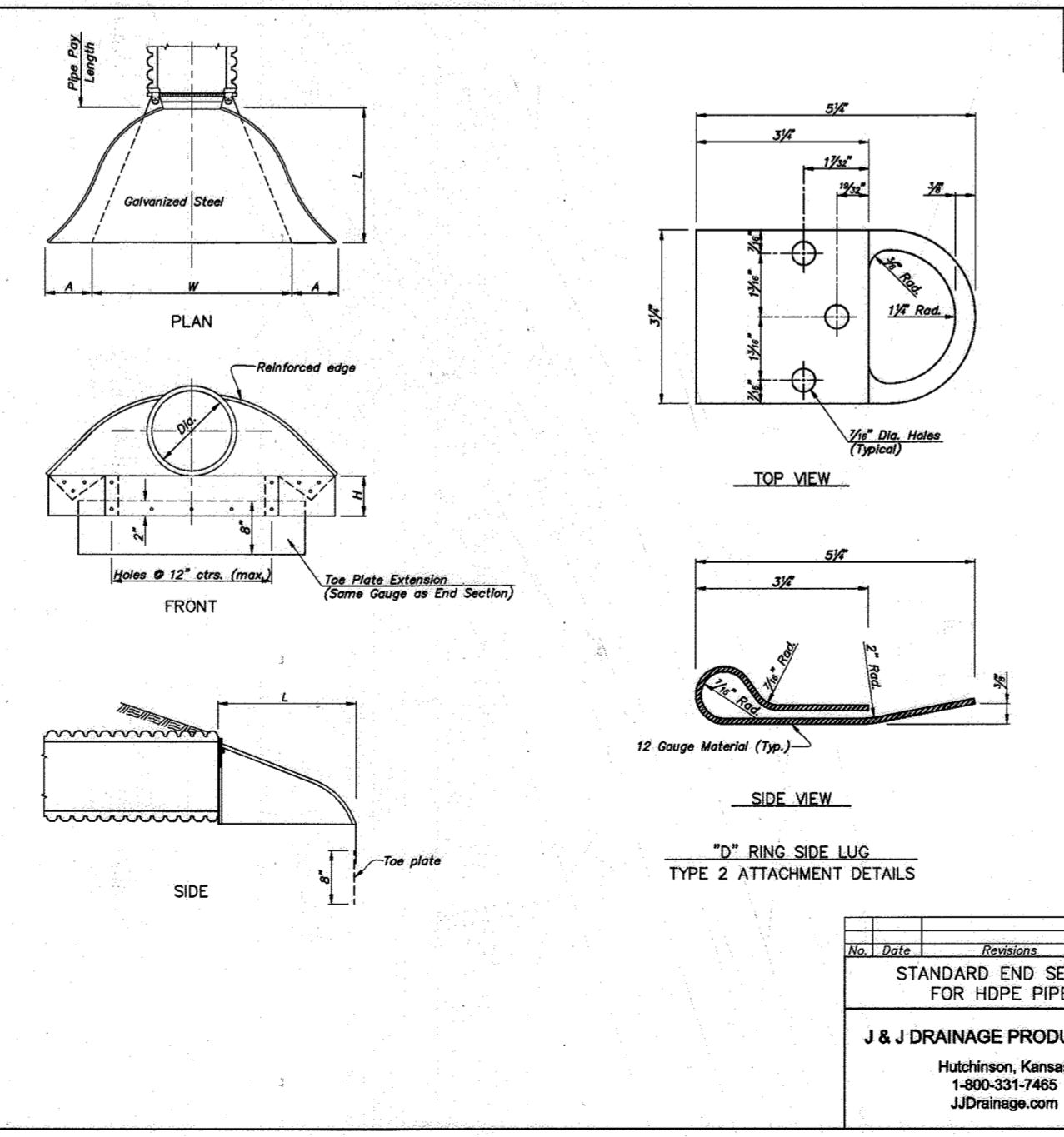
TRENCH DETAILS
Scale: 1" = 1'-0"

END SECTIONS FOR HDPE PIPE									
Dia.	Gauge	Weight	* A	* H	* L	* W	Slope	Overall	Min.
6"	18	10	4	3	8	12	2	20"	
8"	18	14	5 3/4"	4	14 1/2"	18	2 1/4"	27 1/2"	
10"	18	17	5 5/8"	6	14 1/2"	20	2 1/2"	35 1/4"	
12"	16	25	7	6	21	24	2 1/2"	36"	
15"	16	33	8	6	28	30	2 1/2"	46"	
18"	16	42	8	6	31	36	2 1/2"	52"	
21"	16	69	8	6	38	42	2 1/2"	60"	
24"	16	85	10	6	41	48	2 1/2"	68"	
30"	14	123	12	8	51	60	2 1/2"	84"	
36"	14	164	14	9	60	72	2 1/2"	102"	
42"	12	320	16	11	69	84	2 1/2"	116"	
48"	12	375	18	12	78	90	2 1/4"	126"	
54"	12	440	18	12	84	102	2 1/4"	138"	
60"	12/70	610	18	12	87	114	2	150"	

The plate extensions where specified, to be punched to match holes in same sp. 3/8" hole to be laminated. The length of the plate to be on holes. W = 10" for 12" to 30" diameter pipes inclusive. W = 20" for 36" to 60" diameter pipes inclusive.

Multiple panel and sections shall have lap seams which are to be tightly joined by both. Corner plate, and toe plate to be same gauge as end section.

* - Dimensions in Inches Plus or Minus Standard Shop Tolerances.

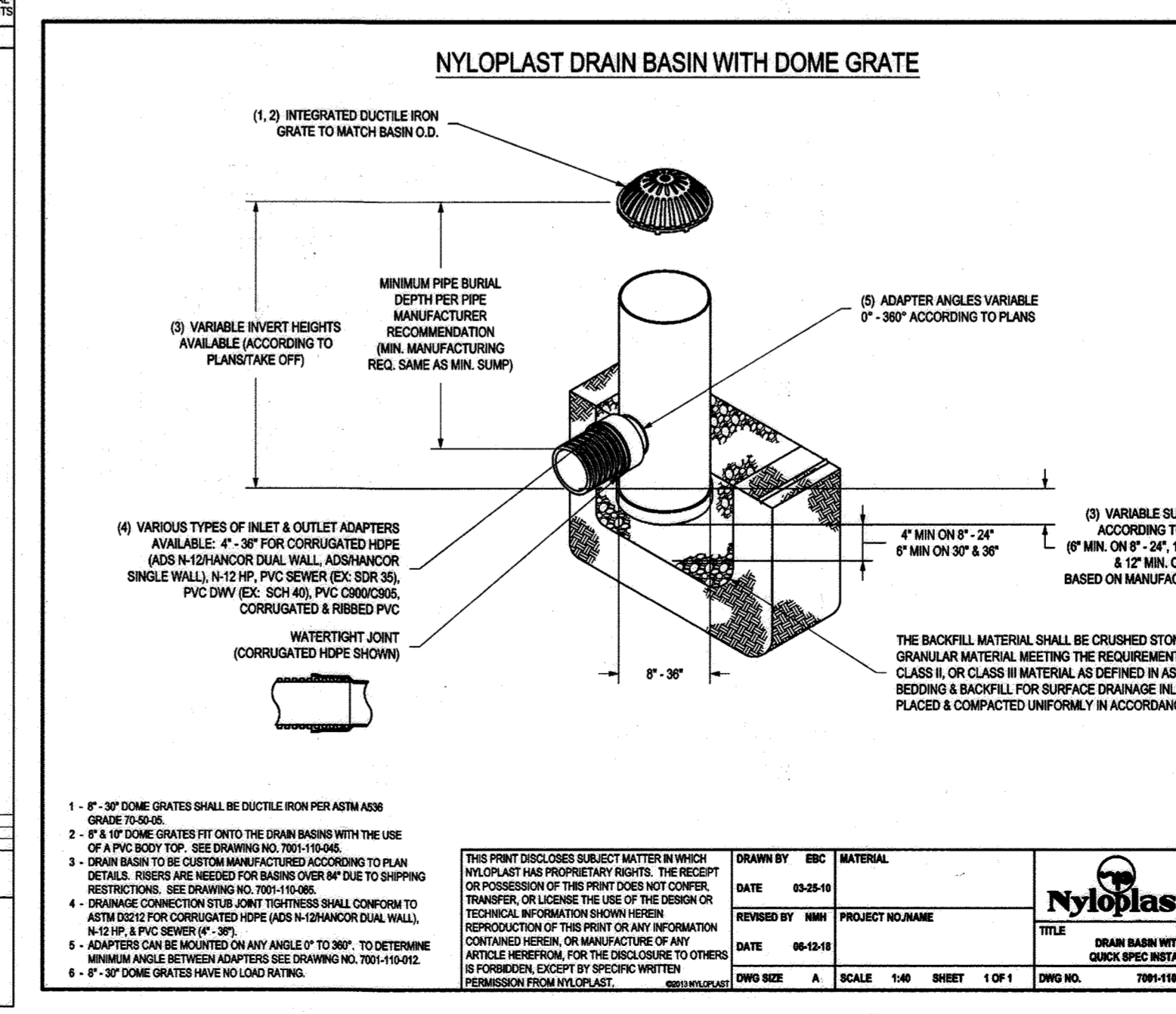


DRIVEWAY GRADING DETAIL
SCALE: 1" = 30'

AS-BUILT CERTIFICATION FOR PWSM

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CROCKING OF THE UNDERGROUND SWM FACILITY.

J.E. NAME 16/193 P.E.# 5-6-24 DATE



1. 4" - 36" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60.

2. 4" - 36" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 700-10-040.

3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHARP BENDING. SEE DRAWING NO. 700-10-040.

4. DRAINAGE CONNECTION JOINTS JOINT TIGHTNESS SHALL CONFORM TO ASTM D1555 FOR CORRUGATED HDPE AND HDPE/SPANACOR DUAL WALL. ADHESIONOR SINGLE WALL, N-10 PVC SEMI EX. SBR 363. PVC CW (EX. SBR 40), PVC CORRUGATED CORRUGATED & RIBBED PVC.

5. ADAPTERS CAN BE LOCATED ON ANY ANGLE 0° TO 90°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 700-10-042.

6. 4" - 36" DOME GRATES HAVE FOLLOWING RATING.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER PROPRIETARY RIGHTS TO THE USER OF THIS DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ADAPTERS HEREIN FOR THE DESIGN OR TO OTHER PURPOSES, EXCEPT AS SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

DRAWN BY: EBC DATE: 03-25-10

REVIEWED BY: MHH DATE: 06-13-10

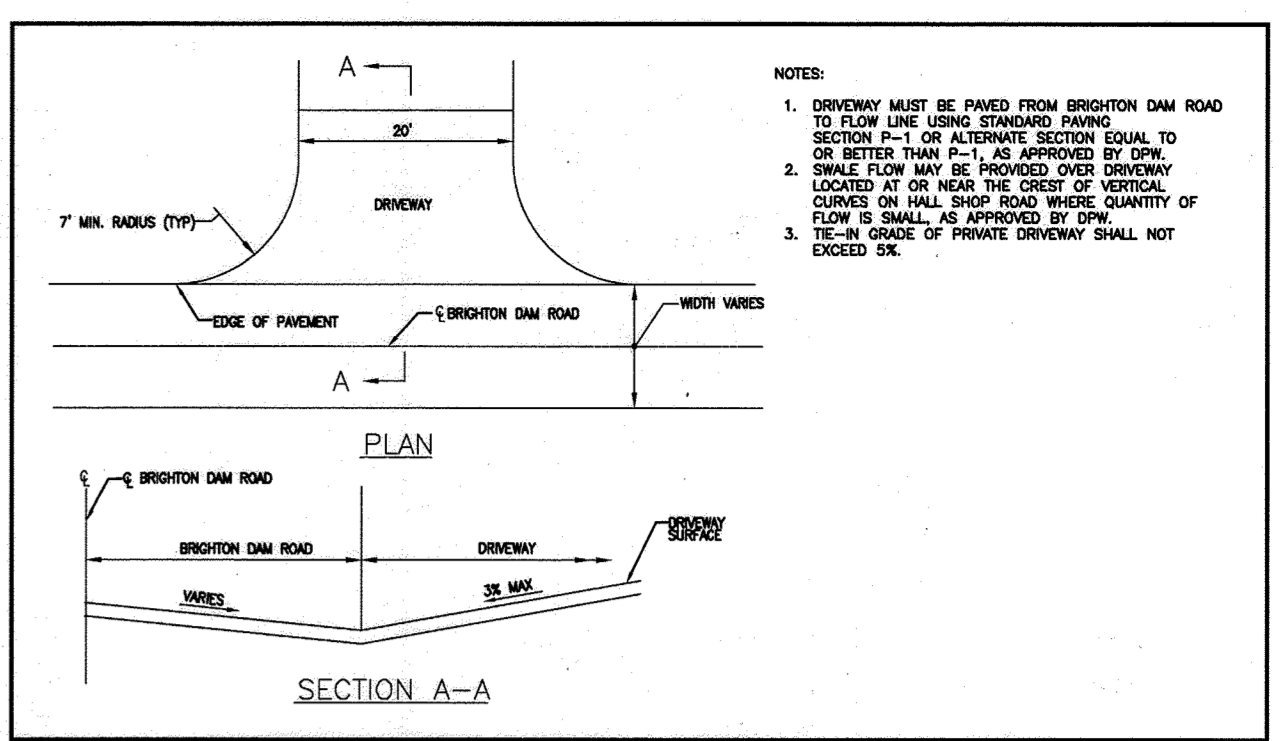
PROJECT NO.: 170-110-040

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

SHEET: 1 OF 1

NYLOPLAST

3123 VERBENA AVE
BARTLESVILLE, OK 74603
PH: (773) 683-2443
FAX: (773) 683-2444
WWW.NYLOPLAST.COM

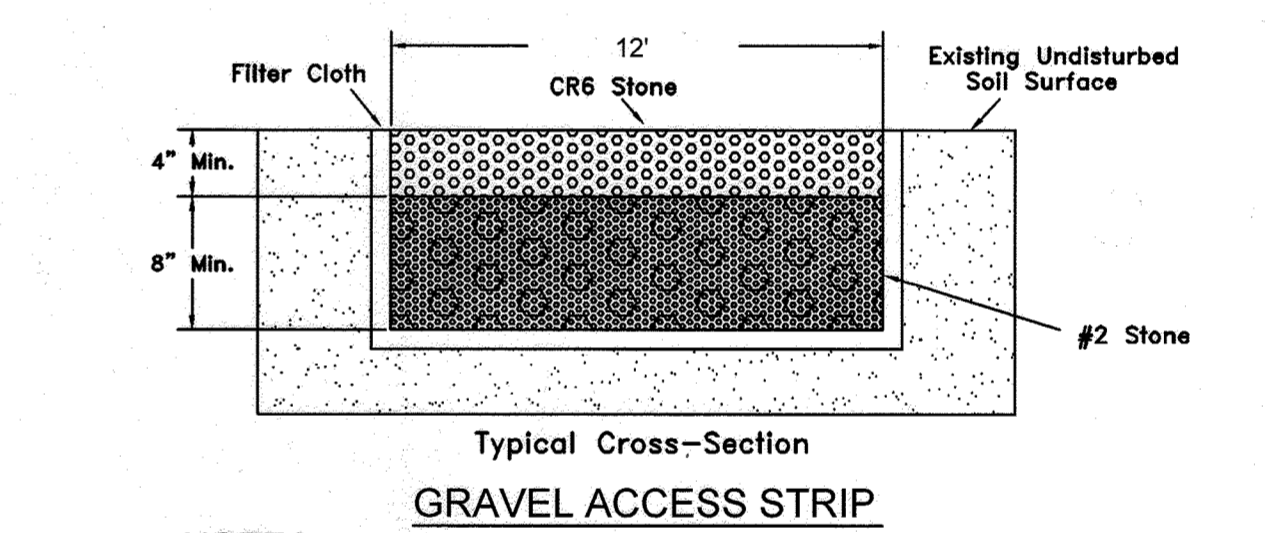


MODIFIED RESIDENTIAL DRIVEWAY ENTRANCE
OPEN SECTION ROADWAY

SUBJECT	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)				
		3 TO <3.5 TO 4.1	4.1 TO 4.5 TO 4.7	4.7 TO 5.0 TO 5.3	5.3 TO 5.5 TO 5.7	
P-1	PAVEMENT TYPE: ASPHALT AND NON-REINFORCED CONCRETE WITH NO WEAR SURFACE APPLICABLE TO INTERSECTIONS SURFACE TYPE: 2.5\"/> <td>SUPERPAVE ASPHALT MIX FINE SURFACE</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td>	SUPERPAVE ASPHALT MIX FINE SURFACE	1.5	1.5	1.5	1.5
		SUPERPAVE ASPHALT MIX MEDIUM SURFACE	1.5	1.5	1.5	1.5
		SUPERPAVE ASPHALT MIX COARSE	2.0	2.0	2.0	2.0
		GRADED AGGREGATE BASE (GAB)	3.5	3.5	3.5	4.0

NOTES:
1. ROAD PAVEMENT ARE SHOWN AS 12\"/>

NOTES:
1. THE ACCESS STRIP SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12" AND CONSTRUCTED OF TWO LAYERS OF STONE. BEFORE THE FIRST LAYER IS INSTALLED, THE BOTTOM AND SIDES OF THE EXCAVATED ROADWAY SHALL BE LINED WITH NON-WOVEN FILTER CLOTH.
2. THE BASE LAYER SHALL BE A MINIMUM OF 6" OF #2 STONE. THE TOP LAYER SHALL BE A MINIMUM OF 4" CR6 STONE. THE TOP LAYER OF THE ROADWAYS SHALL BE AT "GRADE". THESE MINIMUM DEPTHS MAY HAVE TO BE INCREASED DEPENDING ON THE EXISTING SOIL CONDITIONS TO OBTAIN THE H-20 HIGHWAY LOADING.
3. CURBS AND GUTTERS ARE NOT REQUIRED.
4. THE ACCESS STRIP SHALL BE INSPECTED AND MAINTAINED AS NECESSARY.



GRAVEL ACCESS STRIP

NOTES:
1. PAVEMENT SURFACE SHALL BE DUST FREE.

STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 18193

DEVELOPER
TEN OAKS SOLAR LLC
C/O NAUTILUS SOLAR ENERGY, LLC
396 SPRINGFIELD AVENUE
SUITE 200
SUMMIT, NJ 07901
ATTN: JEFFREY CHENG
650-302-9315
JEFF@NAUTILUSSOLAR.COM

OWNER
E. ALEXANDER AND BETTY SMITH ADAMS TRUSTEES OF THE RICHARD WARFIELD TRUST,
6096 KEYSER ROAD,
HUME VA 22639
410-531-9655

SITE DEVELOPMENT PLAN
SITE DETAILS

TEN OAKS SOLAR
12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
DEED L.14369 F.464

TAX MAP 34 BLOCK 11
5TH ELECTION DISTRICT

ZONED RR-DEQ
PARCEL 43
HOWARD COUNTY, MARYLAND

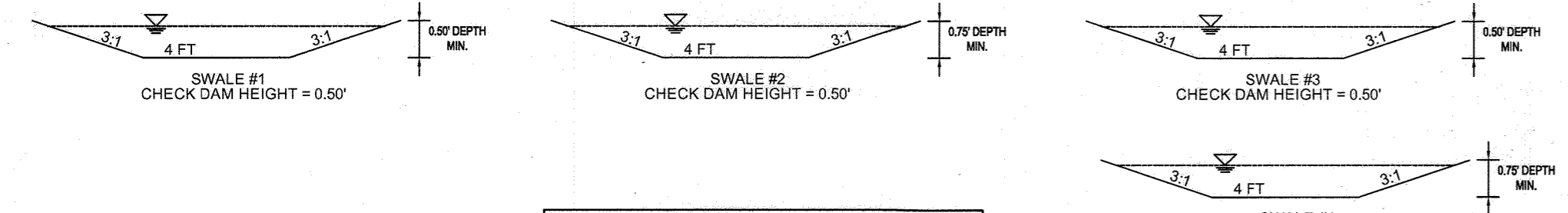
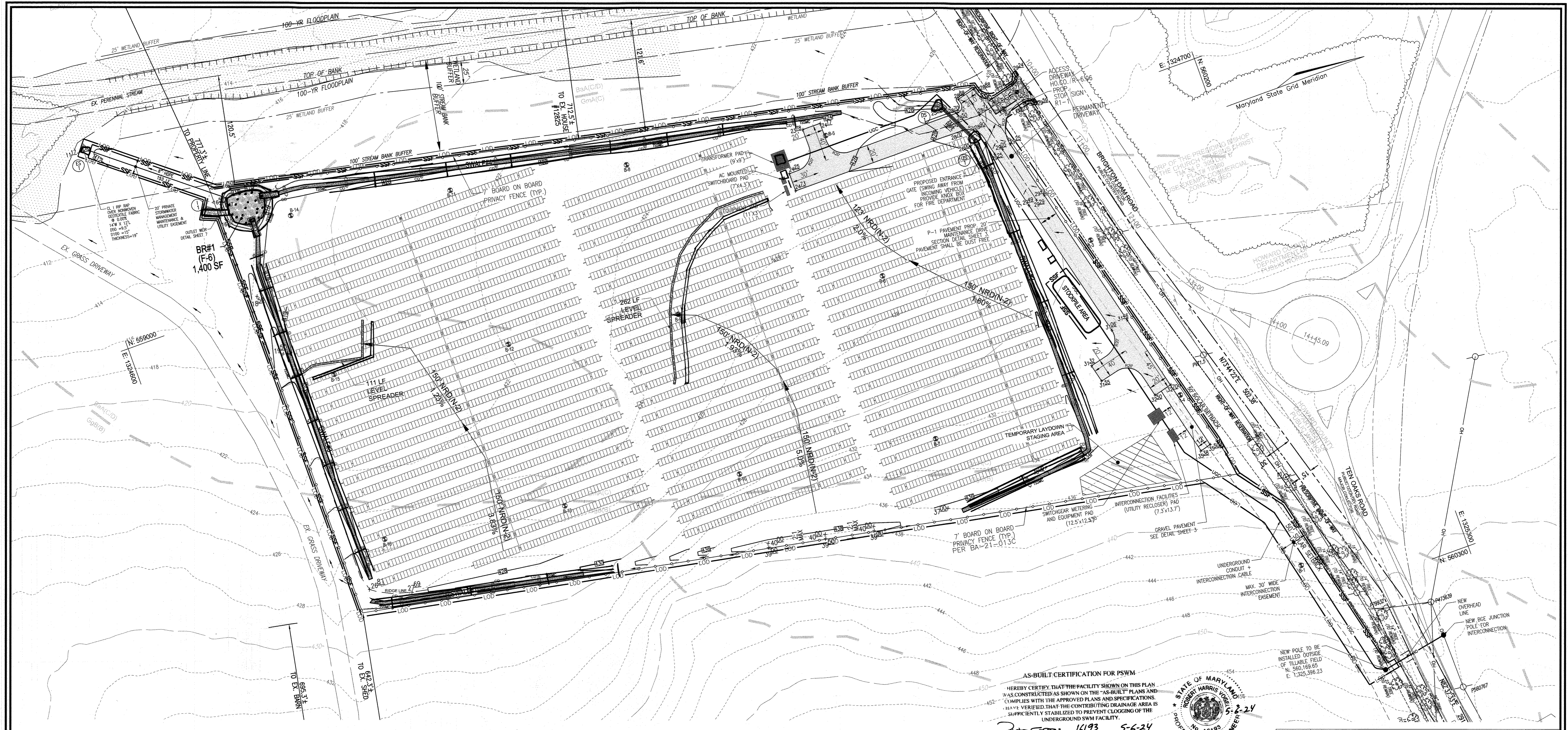
VOGEL ENGINEERING
TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 WWW.TIMMONS.COM

DESIGN BY: RHY
DRAWN BY: IMH
CHECKED BY: RHY
DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.O. NO.: 46576

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18193 EXPIRATION DATE 08-27-2024

3 SHEET OF 12

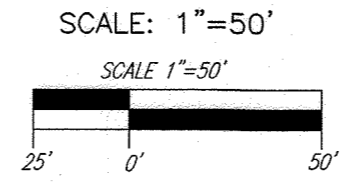


SWALE SECTION DATA				
ID	Q10 OFS	VELOCITY FPS	DEPTH FT	SLOPE FT/FT
SWALE #1	4.98	2.75	0.36	0.019
SWALE #2	7.11	2.64	0.49	0.014
SWALE #3	5.40	3.11	0.35	0.026
SWALE #4	4.92	2.41	0.39	0.14

POLLINATOR SEED MIX NOTES:

- THE AREAS BENEATH AND AROUND THE SOLAR PANELS WILL BE PLANTED WITH A NATIVE GRASS/CLOVER (MEADOW POLLINATORS) MIX. IT IS UNDERSTOOD THAT IT TAKES 3-5 YEARS FOR THE CLOVER TO ESTABLISH AND MAY NOT BE PRESENT AT THE TIME OF CONSTRUCTION. THE GRASSES AND POLLINATORS PROVIDE ECOLOGICAL BENEFITS, INCLUDING POLLINATOR HABITAT AND FOOD.
- SEE SHEET 12 FOR POLLINATOR SEED MIX 'FUZZ & BUZZ MIX - STANDARD - ERNMX-146'.

SOILS MAP, GRADING AND SEDIMENT CONTROL PLAN



SOILS LEGEND					
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.49	NO	YES
GyB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.32	NO	NO
GyC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.32	NO	NO
GmA	GLENEVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	0.49	NO	YES

SOILS NOTE:
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.

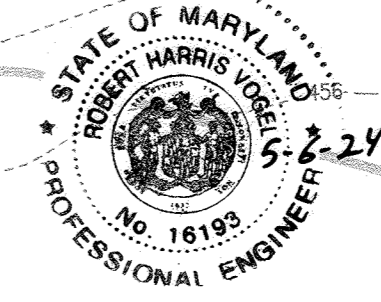
LEGENDS:

- PARCEL BOUNDARY
- ADJACENT BOUNDARY
- PRESCRIPTIVE RIGHT-OF-WAY
- RIGHT-OF-WAY RESERVATION
- 50' SOLAR SETBACK
- BUILDING RESTRICTION LINE
- STREAM CENTERLINE
- STREAM BUFFER
- 610 EXISTING CONTOUR (10')
- 608 EXISTING CONTOUR (2')
- 610 SOILS BOUNDARY
- 610 EXISTING TREELINE
- UVC UNDERGROUND MEDIUM VOLTAGE
- TRANSFORMER PAD
- PROPOSED FENCE
- LOD LIMIT OF DISTURBED AREA
- SSF SUPER SILT FENCE
- NEW GRAVEL ACCESS ROAD
- ERODIBLE SOILS
- 100-YR FLOODPLAIN
- PROPOSED CONTOUR (10')
- PROPOSED CONTOUR (2')
- BIORETENTION (F-6)
- SOIL BORING B-11

NOTE:
DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

AS-BUILT CERTIFICATION FOR PSWM
HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.

16193 5-6-24
DATE



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 3/29/2023
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE
 3/29/2023
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE
 3/29/2023
 DIRECTOR

OWNER/DEVELOPER CERTIFICATION:
 I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR CONSERVATION DISTRICT AND/OR MDE.

3/16/2023
 DATE
 Jeffrey Cheng
 AUTHORIZED SIGNATORY
 PRINTED NAME & TITLE

DESIGN CERTIFICATION:
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

3/17/2023
 DATE
 Rob Vogel
 DESIGNER'S SIGNATURE
 ROBERT H. VOGEL
 PRINTED NAME
 MD REGISTRATION NO. 16193
 (P.E., R.L.S., OR R.L.A. (circle one))

NOTE:
 1. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN DITCHES AFTER CONSTRUCTION OF SOLAR ARRAY.
 2. CONTRACTOR SHALL MAINTAIN THAT RUNOFF IS DIRECTED TO THE BIORETENTION FACILITY.

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

3/29/2023
 DATE
 Alexander Bratish
 HOWARD S.C.D.

OWNER
 E. ALEXANDER AND BETTY SMITH ADAMS TRUSTEES OF THE RICHARD WARFIELD TRUST, 6096 KEYSER ROAD, HUME VA 22639 410-531-9655

DEVELOPER
 TEN OAKS SOLAR LLC
 SUITE 200
 396 SPRINGFIELD AVENUE
 SUMMIT, NJ 07901
 ATTN: JEFFREY CHENG
 650-302-9315
 JEFF@NAUTILUSSOLAR.COM

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
SOILS MAP, GRADING, EROSION AND SEDIMENT CONTROL PLAN
TEN OAKS SOLAR
 12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
 DEED L.14369 F.464

TAX MAP 34 BLOCK 11
 5TH ELECTION DISTRICT

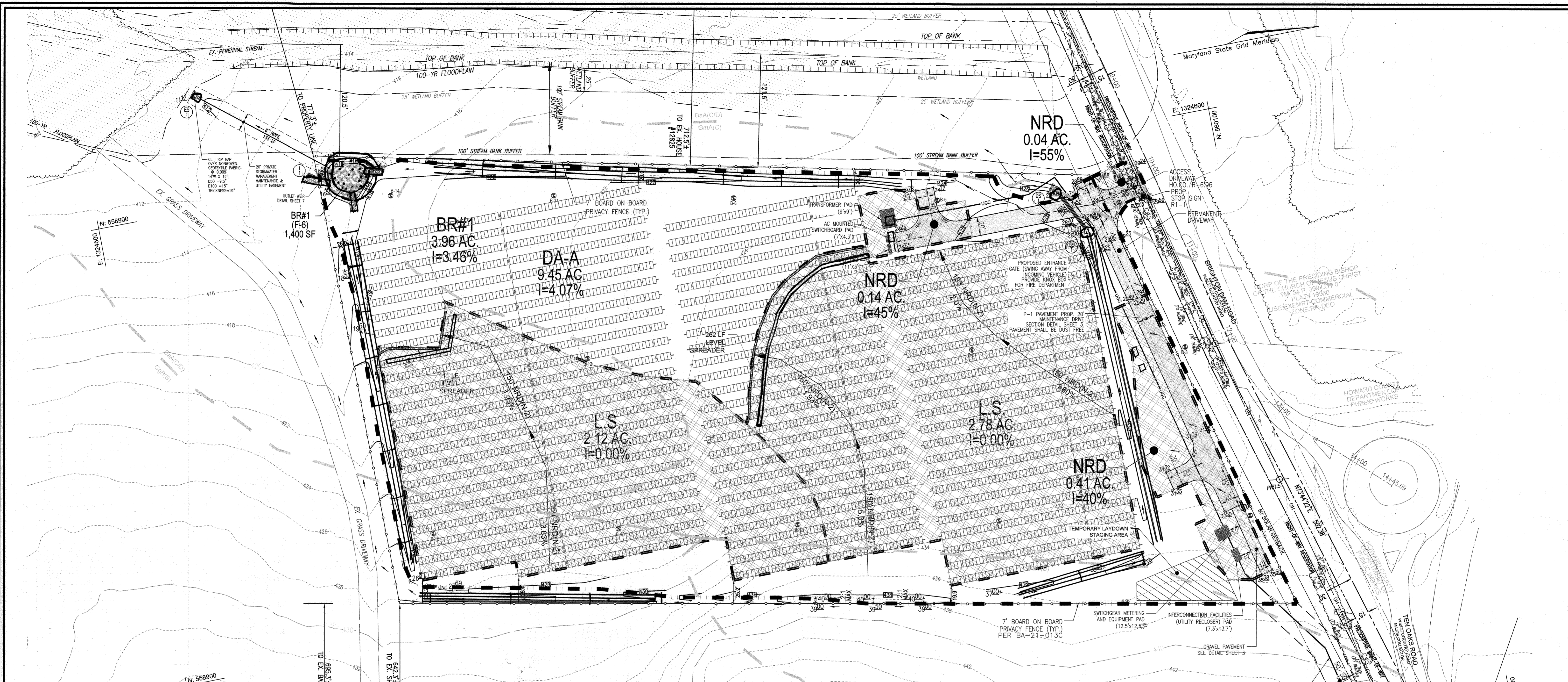
ZONED RR-DEO
 PARCEL 43
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

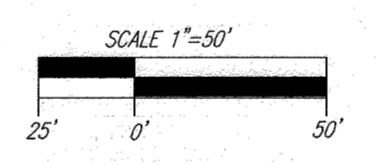
PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE 06-27-2024.

DESIGN BY: RHV
 DRAWN BY: IMH
 CHECKED BY: RHV
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 46576

4 SHEET OF 12



STORMWATER MANAGEMENT DRAINAGE AREA MAP
SCALE: 1"=50'



Ten Oaks Solar- SDP - ESDv COMPUTATIONS

DRAINAGE #	% IMPERV	Rv	DA (SF)	DA (AC)	1.0" VOLUME	MAXIMUM VOLUME	VOLUME PROVIDED	Rev REQUIRED	Rev PROVIDED	IMPERV (SF)	IMPERV (AC)	GREEN AREA	REMARKS
A	4.07	0.0867	411558	9.45	2972	7727	3672			16761	0.38	9.06	NON STRUCTURAL PRACTICE - NON-ROOFTOP DISCONNECT
	4.52	0.0907	239000	5.49	1806	4694	1806			10796	0.25	5.24	1806 ESDv
	3.46	0.0811	172558	3.96	1166	3033	1867	467	560	5965	0.14	3.82	BR#1 - BIORETENTION (F-6) Surface Area of M-2 @ 1.0' ponding (75% above) 560 1400 Stone Below MBR (includes Rev)
TOTAL	4.07	0.0867	411558	9.45	2972	7727	3672	467	560	16761	0.38	9.06	

LEGENDS:

- PARCEL BOUNDARY
- ADJACENT BOUNDARY
- PRESCRIPTIVE RIGHT-OF-WAY
- RIGHT-OF-WAY RESERVATION
- 50' SOLAR SETBACK
- BUILDING RESTRICTION LINE
- STREAM CENTERLINE
- STREAM BUFFER
- EXISTING CONTOUR (10')
- EXISTING CONTOUR (2')
- M100
- M105
- EXISTING TREELINE
- UNDERGROUND MEDIUM VOLTAGE
- UGC
- TRANSFORMER PAD
- PROPOSED FENCE
- NEW ACCESS ROAD
- ERODIBLE SOILS
- 100-YR FLOODPLAIN
- PROPOSED CONTOUR (10')
- PROPOSED CONTOUR (2')
- DRAINAGE AREA
- BIORETENTION (F-6)
- NON-ROOFTOP DISCONNECT (N-2)
- SOIL BORING



AS-BUILT CERTIFICATION FOR PSWM
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.
DATE: 5-6-24

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
3/29/2023
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

OWNER
E. ALEXANDER AND BETTY SMITH ADAMS TRUSTEES OF THE RICHARD WARFIELD TRUST, 6096 KEYSER ROAD, HUME VA 22639 410-531-9655
DEVELOPER
TEN OAKS SOLAR LLC
C/O NAUTILUS SOLAR ENERGY, LLC SUITE 200 396 SPRINGFIELD AVENUE SUMMIT, NJ 07901 ATTN: JEFFREY CHENG 650-302-9315 JEFF@NAUTILUSSOLAR.COM

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
STORMWATER MANAGEMENT DRAINAGE AREA MAP
TEN OAKS SOLAR
12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
DEED L.14369 F.464
TAX MAP 34 BLOCK 11
5TH ELECTION DISTRICT
ZONED RR-DEQ
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7656 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
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DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.O. NO.: 46576
6 SHEET OF 12



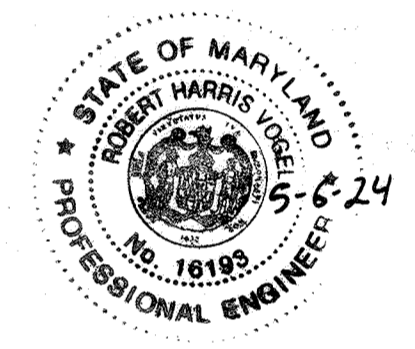
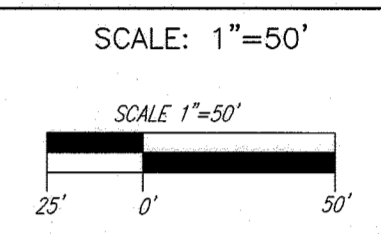
LEGENDS:

- Parcel Boundary
- Adjacent Boundary
- Prescriptive Right-of-Way
- Right-of-Way Reservation
- 50' Solar Setback
- Building Restriction Line
- Stream Centerline
- Stream Buffer
- Existing Contour (10')
- Existing Contour (2')
- Soils Boundary
- Existing Treeline
- UCG
- Underground Medium Voltage
- Transformer Pad
- Proposed Fence
- New Access Road
- Erodible Soils
- 100-Yr Floodplain
- Proposed Contour (10')
- Proposed Contour (2')
- Drainage Area
- Bioretention (F-6)
- Soil Boring

NOTES:

- SEE SHEET 5 FOR RIPRAP ROCK OUTLET PROTECTION.
- SEE SHEET 7 FOR STORM DRAIN STRUCTURE SCHEDULES.

STORMWATER MANAGEMENT DRAINAGE AREA MAP

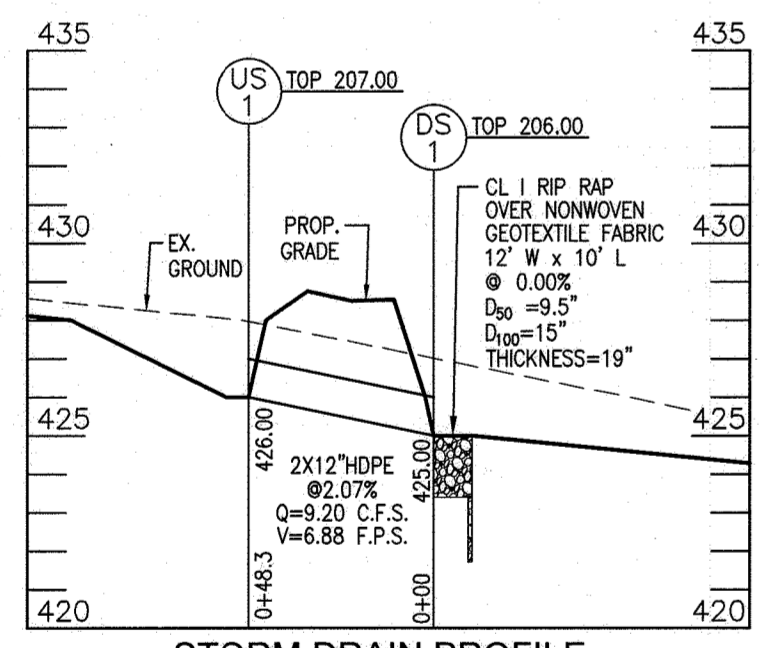


AS-BUILT CERTIFICATION FOR PSWM

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DATE: 5-6-24
P.E. # 16193

DEVELOPER
TEN OAKS SOLAR LLC
C/O NAUTILUS SOLAR ENERGY, LLC
396 SPRINGFIELD AVENUE
SUITE 200
SUMMIT, NJ 07901
ATTN: JEFFREY CHENG
650-302-9315
JEFF@NAUTILUSSOLAR.COM



PIPE SCHEDULE

SIZE	PUBLIC/PRIVATE	MATERIAL	LENGTH
12"	PRIVATE	HDPE	96

STRUCTURE SCHEDULE

STR#	TYPE	INV. IN	INV. OUT	TOP ELEV.	DETAIL	LOCATION	REMARKS
US-1	12" HDPE	426.00	---	427.00	---	N: 559,945.65 E: 1,324,701.37	(1) PRIVATE
DS-1	12" HDPE	---	425.00	426.00	---	N: 559,924.34 E: 1,324,658.08	(2) PRIVATE

(1) COORDINATE FOR END SECTION = CENTERLINE OF PIPE @ UPSTREAM FACE
(2) COORDINATE FOR END SECTION = CENTERLINE OF PIPE @ DOWNSTREAM FACE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

3/29/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT

DIRECTOR

NO. REVISION DATE

SITE DEVELOPMENT PLAN
STORM DRAIN DRAINAGE AREA MAP
TEN OAKS SOLAR
12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
DEED L. 14369 F. 464

TAX MAP 34, BLOCK 11, 5TH ELECTION DISTRICT

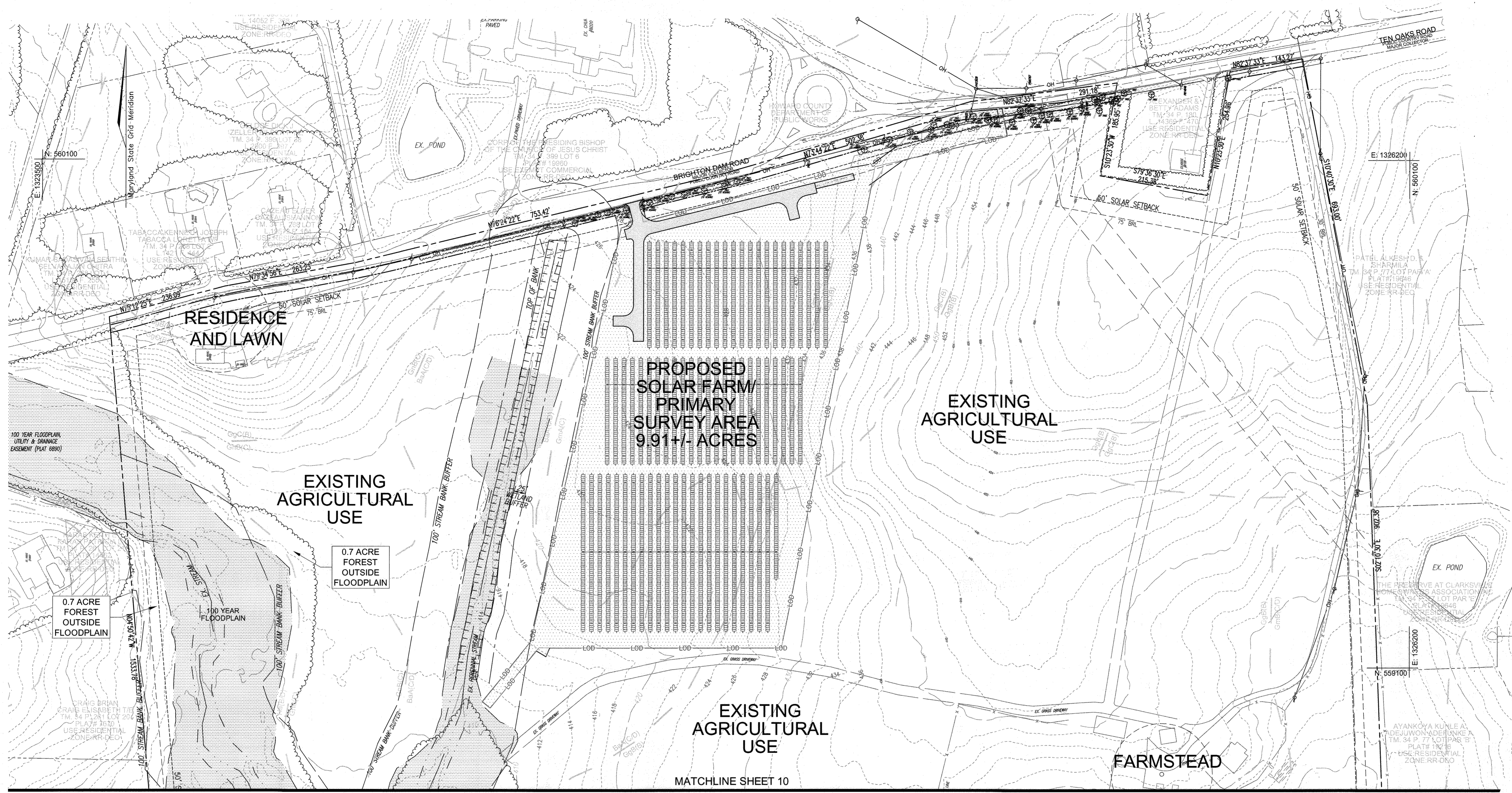
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PROFESSIONAL CERTIFICATE

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DESIGN BY: RHY
DRAWN BY: IMH
CHECKED BY: RHY
DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.O. NO.: 46576

8 SHEET OF 12

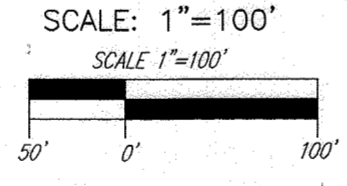


- LEGENDS:**
- PARCEL BOUNDARY
 - ADJACENT BOUNDARY
 - PRESCRIPTIVE RIGHT-OF-WAY
 - RIGHT-OF-WAY RESERVATION
 - STREAM CENTERLINE
 - STREAM BUFFER
 - WETLAND
 - WETLAND BUFFER
 - EXISTING TREELINE
 - EXISTING FENCE
 - 100-YR FLOODPLAIN

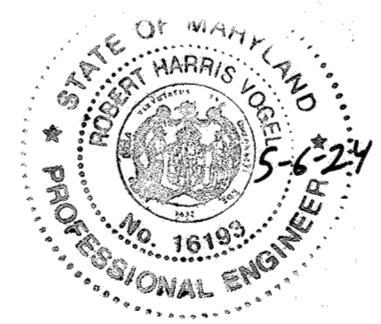
NOTE

FOREST RETENTION IS NOT PERMITTED ON HOWARD COUNTY ALPP EASEMENT PROPERTIES.

FOREST CONSERVATION PLAN



NO AS-BUILT INFORMATION ON THIS SHEET



AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.
 R.H.V. 16193 5-6-24
 P.E.# DATE

SOILS LEGEND				
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE / HYDIC
BaA	BALILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.49	NO / YES
GpB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.32	NO / NO
GpC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.32	NO / NO
GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	0.49	NO / YES
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.55	YES / YES
Cc	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.55	NO / YES
Hc	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.43	NO / YES
MkS	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.32	NO / NO
GsB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A	0.32	NO / NO
GsC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	A	0.32	NO / NO
GnB	GLENVILLE BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	A	0.49	YES / YES

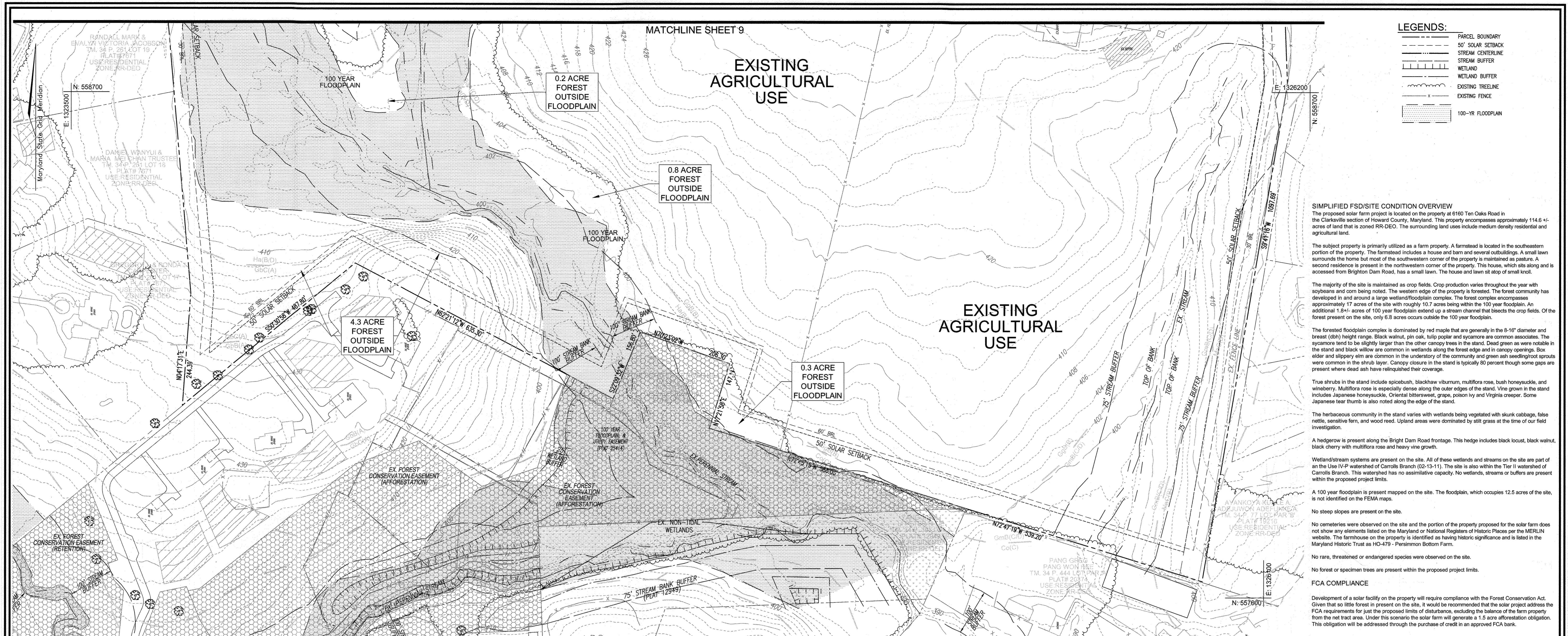
SOILS NOTE:
 HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

NO.	REVISION	DATE
SITE DEVELOPMENT PLAN FOREST CONSERVAITON PLAN TEN OAKS SOLAR 12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029 DEED L.14369 F.464 ZONED RR-DEO PARCEL 43 TAX MAP 34 BLOCK 11 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
VOGEL ENGINEERING TIMMONS GROUP 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043 P: 410.461.7666 F: 410.461.8961 www.timmons.com		
OWNER E. ALEXANDER AND BETTY SMITH ADAMS TRUSTEES OF THE RICHARD WARFIELD TRUST, 6096 KEYSER ROAD, HUME VA 22639 410-531-9655		PROFESSIONAL CERTIFICATE I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193 EXPIRATION DATE: 09-27-2024
DEVELOPER TEN OAKS SOLAR LLC C/O NAUTILUS SOLAR ENERGY, LLC 396 SPRINGFIELD AVENUE SUITE 200 SUMMIT, NJ 07901 ATTN: JEFFREY CHENG 650-302-9315 JEFF@NAUTILUSSOLAR.COM		
DESIGN BY:	RHV	9 SHEET OF 12 AS-BUILT JAN. 2024 SDP-22-037
DRAWN BY:	IMH	
CHECKED BY:	RHV	
DATE:	FEBRUARY 2023	
SCALE:	AS SHOWN	
W.O. NO.:	46576	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 3/29/2023
 Chief, Development Engineering Division
 Chief, Division of Land Development
 Director

J. Brody McAllister
 ISA Certified Arborist
 Cert ID: MA6471A
 MD DNR FCA Qualified Professional

Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS
 2000 WOODBINE DRIVE, SUITE 100, CLARKSVILLE, MD 21031



LEGENDS:

- PARCEL BOUNDARY
- - - 50' SOLAR SETBACK
- STREAM CENTERLINE
- STREAM BUFFER
- WETLAND
- WETLAND BUFFER
- EXISTING TREELINE
- EXISTING FENCE
- 100-YR FLOODPLAIN

SIMPLIFIED FSD/SITE CONDITION OVERVIEW
 The proposed solar farm project is located on the property at 6160 Ten Oaks Road in the Clarksville section of Howard County, Maryland. This property encompasses approximately 114.6 +/- acres of land that is zoned RR-DEO. The surrounding land uses include medium density residential and agricultural land.

The subject property is primarily utilized as a farm property. A farmstead is located in the southeastern portion of the property. The farmstead includes a house and barn and several outbuildings. A small lawn surrounds the home but most of the southwestern corner of the property is maintained as pasture. A second residence is present in the northwestern corner of the property. The house, which sits along and is accessed from Brighton Dam Road, has a small lawn. The house and lawn sit atop of small knoll.

The majority of the site is maintained as crop fields. Crop production varies throughout the year with soybeans and corn being noted. The western edge of the property is forested. The forest community has developed in and around a large wetland/floodplain complex. The forest complex encompasses approximately 17 acres of the site with roughly 10.7 acres being within the 100 year floodplain. An additional 1.8+/- acres of 100 year floodplain extend up a stream channel that bisects the crop fields. Of the forest present on the site, only 6.8 acres occurs outside the 100-year floodplain.

The forested floodplain complex is dominated by red maple that are generally in the 6-16" diameter and breast (dbh) height range. Black walnut, pin oak, tulip poplar and sycamore are common associates. The sycamores tend to be slightly larger than the other canopy trees in the stand. Dead green ash were notable in the stand and black willow are common in wetlands along the forest edge and in canopy openings. Box elder and slippery elm are common in the understory of the community and green ash seedling/young sprouts were common in the shrub layer. Canopy closure in the stand is typically 80 percent though some gaps are present where dead ash have relinquished their coverage.

True shrubs in the stand include spicebush, blackhaw viburnum, multiflora rose, bush honeysuckle, and winberry. Multiflora rose is especially dense along the outer edges of the stand. Vine grown in the stand includes Japanese honeysuckle, Oriental bittersweet, grape, poison ivy and Virginia creeper. Some Japanese reed thorn is also noted along the edge of the stand.

The herbaceous community in the stand varies with wetlands being vegetated with skunk cabbage, false nettle, sensitive fern, and wood reed. Upland areas were dominated by stiff grass at the time of our field investigation.

A hedgerow is present along the Brighton Dam Road frontage. This hedge includes black locust, black walnut, black cherry with multiflora rose and heavy vine growth.

Wetland/stream systems are present on the site. All of these wetlands and streams on the site are part of the Use IV-P watershed of Carrolls Branch (02-13-11). The site is also within the Tier II watershed of Carrolls Branch. This watershed has no assimilative capacity. No wetlands, streams or buffers are present within the proposed project limits.

A 100 year floodplain is present mapped on the site. The floodplain, which occupies 12.5 acres of the site, is not identified on the FEMA maps.

No steep slopes are present on the site.

No cemeteries were observed on the site and the portion of the property proposed for the solar farm does not show any elements listed on the Maryland or National Registers of Historic Places per the MERLIN website. The farmhouse on the property is identified as having historic significance and is listed in the Maryland Historic Trust as HO-479 - Persimmon Bottom Farm.

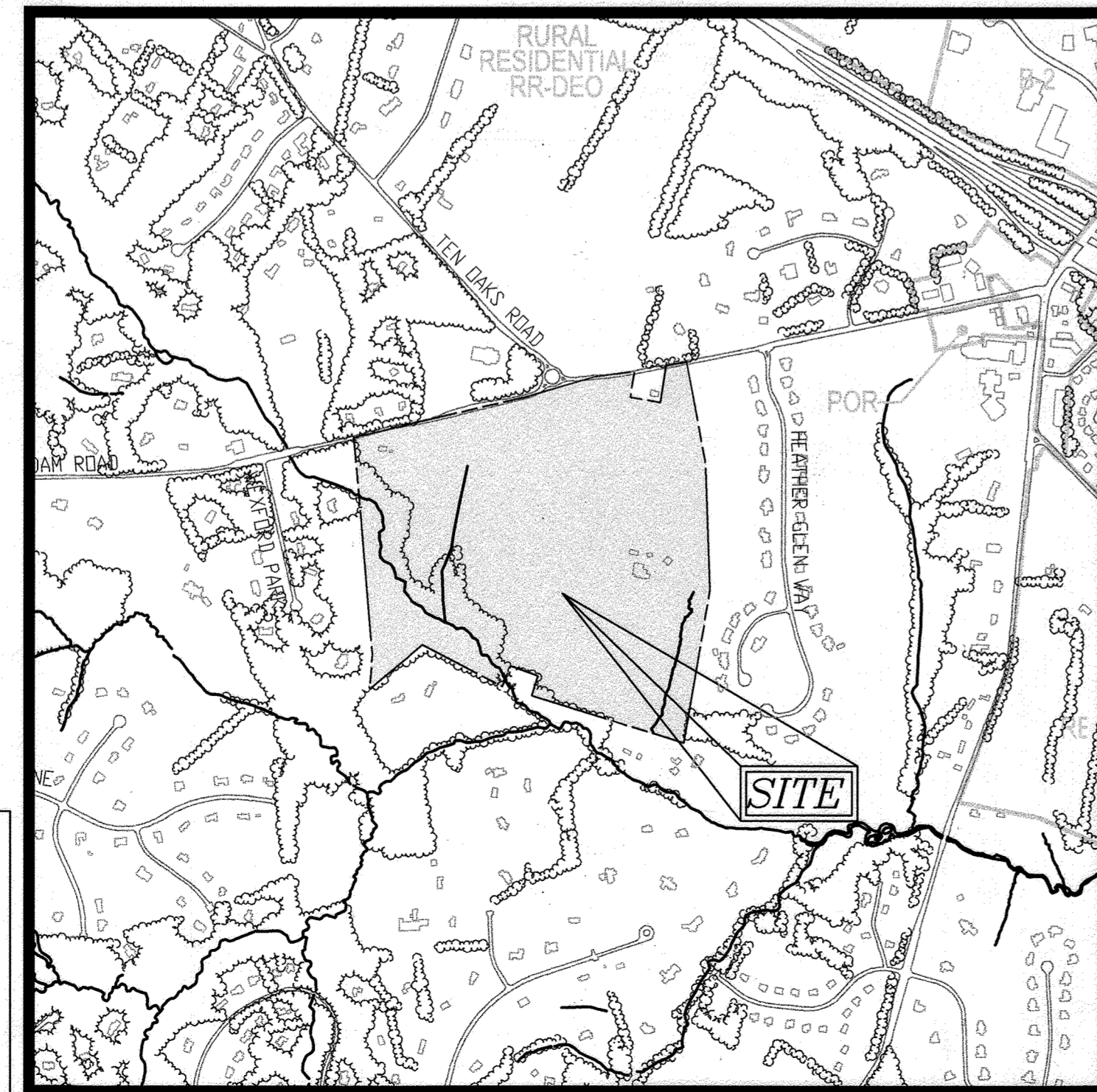
No rare, threatened or endangered species were observed on the site.

No forest or specimen trees are present within the proposed project limits.

FCA COMPLIANCE

Development of a solar facility on the property will require compliance with the Forest Conservation Act. Given that so little forest is present on the site, it would be recommended that the solar project address the FCA requirements for just the proposed limits of disturbance, excluding the balance of the farm property from the net tract area. Under this scenario the solar farm will generate a 1.5 acre afforestation obligation. This obligation will be addressed through the purchase of credit in an approved FCA bank.

VICINITY MAP
 SCALE: 1"=1,000'
 ADC MAP COORDINATES: PAGE 31 B2



FOREST CONSERVATION PLAN

SCALE: 1"=100'
 SCALE 1"=100'

NOTE

FOREST RETENTION IS NOT PERMITTED ON HOWARD COUNTY ALPP EASEMENT PROPERTIES.

AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.

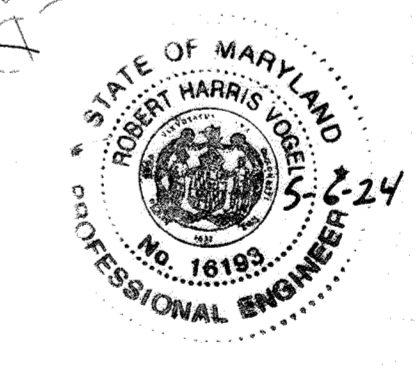
[Signature] 1693 5-6-24
 J. NAME P.E. DATE

NO AS-BUILT INFORMATION ON THIS SHEET

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC
BoA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.49	NO	YES
GcB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.32	NO	NO
GcC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.32	NO	NO
GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	0.49	NO	YES
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.55	YES	YES
Co	CODORUS AND HARBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.55	NO	YES
Ho	HARBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.43	NO	YES
MoC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.32	NO	NO
GcB	GLAUSTONE LOAM, 3 TO 8 PERCENT SLOPES	A	0.32	NO	NO
GcC	GLAUSTONE LOAM, 8 TO 15 PERCENT SLOPES	A	0.32	NO	NO
GcB	GLENVILLE BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	A	0.49	YES	YES

SOILS NOTE:
 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.



Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS
 1800 W. 10th Street, Suite 100, Clarksville, MD 21031
 Phone: 410.461.7666

J. Brody McAllister
 ISA Certified Arborist
 Cert ID: MA4271A
 MD DNR FCA Qualified Professional

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
FOREST CONSERVATION PLAN

TEN OAKS SOLAR
 12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
 DEED L.14369 F.464

TAX MAP 34 BLOCK 11
 5TH ELECTION DISTRICT

ZONED RR-DEO
 PARCEL 43
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

DESIGN BY: RHV
 DRAWN BY: IMH
 CHECKED BY: RHV
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 46576

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. MY LICENSE NO. IS 16193. EXPIRATION DATE: 09-23-2024

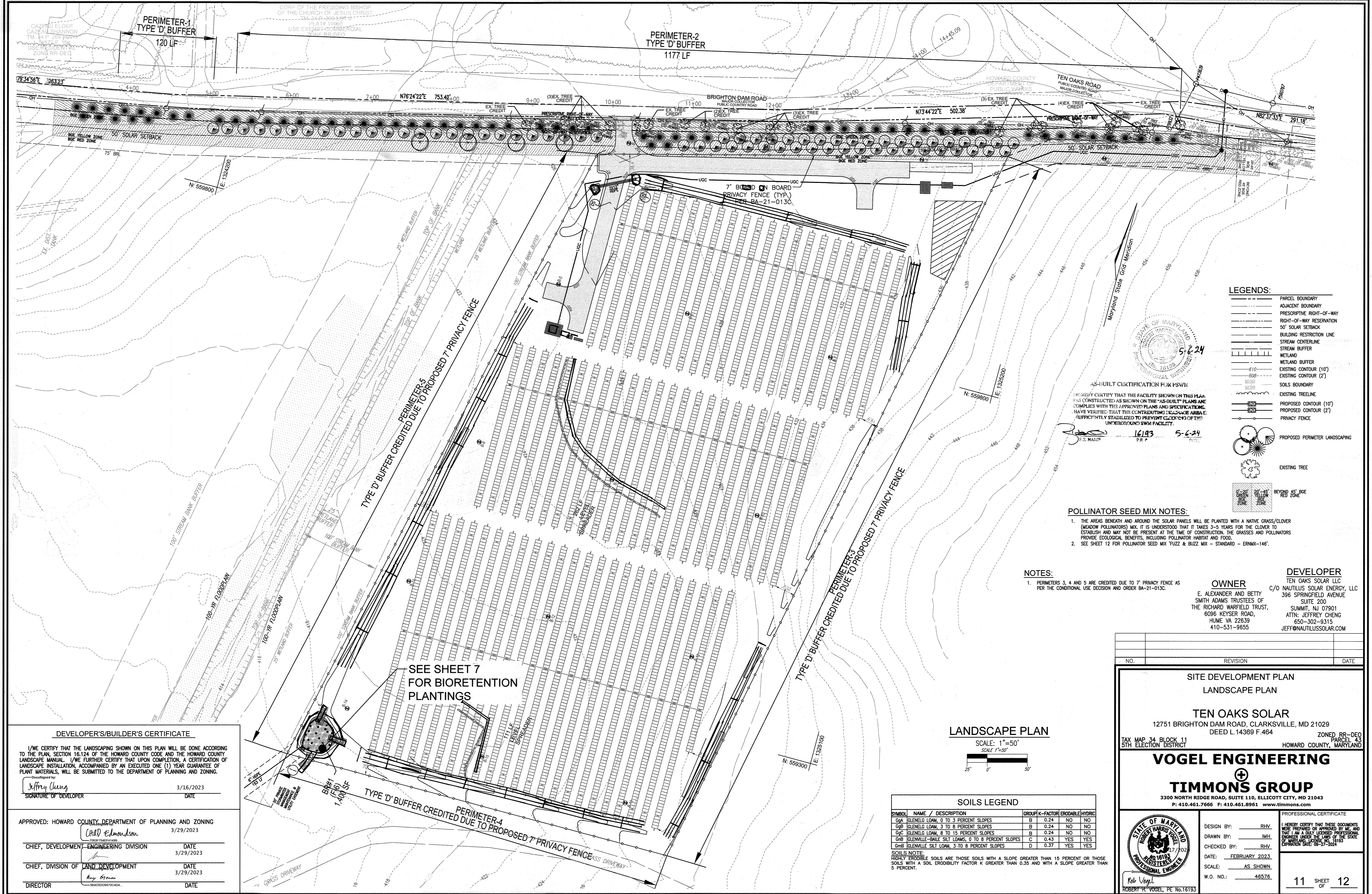
10 SHEET OF 12

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 3/29/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] 3/29/2023

DIRECTOR DATE



- LEGENDS:**
- PARCEL BOUNDARY
 - ADJACENT BOUNDARY
 - PRESCRIPTIVE RIGHT-OF-WAY
 - RIGHT-OF-WAY RESERVATION
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - STREAM CENTERLINE
 - STREAM BUFFER
 - WETLAND
 - WETLAND BUFFER
 - EXISTING CONTOUR (10')
 - EXISTING CONTOUR (2')
 - SOILS BOUNDARY
 - EXISTING TREELINE
 - PROPOSED CONTOUR (10')
 - PROPOSED CONTOUR (2')
 - PRIVACY FENCE
 - PROPOSED PERIMETER LANDSCAPING
 - EXISTING TREE
 - BEYOND 45' BGE RED ZONE

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 5-6-24
 AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING URSAPAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT COLLAPSE OF THE UNDERGROUND SWM FACILITY.
 P.E. NAJIB 16193 5-6-24

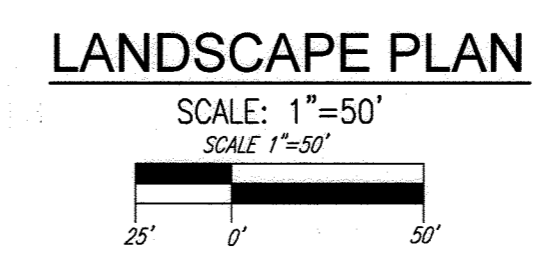
- POLLINATOR SEED MIX NOTES:**
- THE AREAS BENEATH AND AROUND THE SOLAR PANELS WILL BE PLANTED WITH A NATIVE GRASS/ CLOVER (MEADOW POLLINATORS) MIX. IT IS UNDERSTOOD THAT IT TAKES 3-5 YEARS FOR THE CLOVER TO ESTABLISH AND MAY NOT BE PRESENT AT THE TIME OF CONSTRUCTION. THE GRASSES AND POLLINATORS PROVIDE ECOLOGICAL BENEFITS, INCLUDING POLLINATOR HABITAT AND FOOD.
 - SEE SHEET 12 FOR POLLINATOR SEED MIX 'FUZZ & BUZZ MIX - STANDARD - ERNMIX-146'.

- NOTES:**
- PERIMETERS 3, 4 AND 5 ARE CREDITED DUE TO 7' PRIVACY FENCE AS PER THE CONDITIONAL USE DECISION AND ORDER BA-21-0130.

OWNER
 E. ALEXANDER AND BETTY SMITH ADAMS TRUSTEES OF THE RICHARD WARFIELD TRUST, 6096 KEYSER ROAD, HUME VA 22639 410-531-9655

DEVELOPER
 TEN OAKS SOLAR LLC
 NAUTILUS SOLAR ENERGY, LLC
 396 SPRINGFIELD AVENUE SUITE 200 SUMMIT, NJ 07901 ATTN: JEFFREY CHENG 650-302-9315 JEFF@NAUTILUSSOLAR.COM

SEE SHEET 7 FOR BIORETENTION PLANTINGS



SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDROIC
G _{0A}	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.24	NO	NO
G _{0B}	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.24	NO	NO
G _{0C}	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.24	NO	NO
G _{0B}	GLENMILLE-BALE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.43	YES	YES
G _{0B}	GLENMILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	D	0.37	YES	YES

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DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE 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/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Designed by: Jeffrey Chung 3/16/2023
 SIGNATURE OF DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 3/29/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 3/29/2023
Mark Edmondson

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 3/29/2023
Amy Goman

DIRECTOR DATE

NO. REVISION DATE

SITE DEVELOPMENT PLAN
LANDSCAPE PLAN

TEN OAKS SOLAR
 12751 BRIGHTON DAM ROAD, CLARKSVILLE, MD 21029
 DEED L.14369 F.464 ZONED RR-DEO PARCEL 45

TAX MAP 34 BLOCK 11 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
 DESIGN BY: RHV
 DRAWN BY: IMH
 CHECKED BY: RHV
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 48576

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. 16193, EXPIRATION DATE 09-27-2024

11 SHEET OF 12

