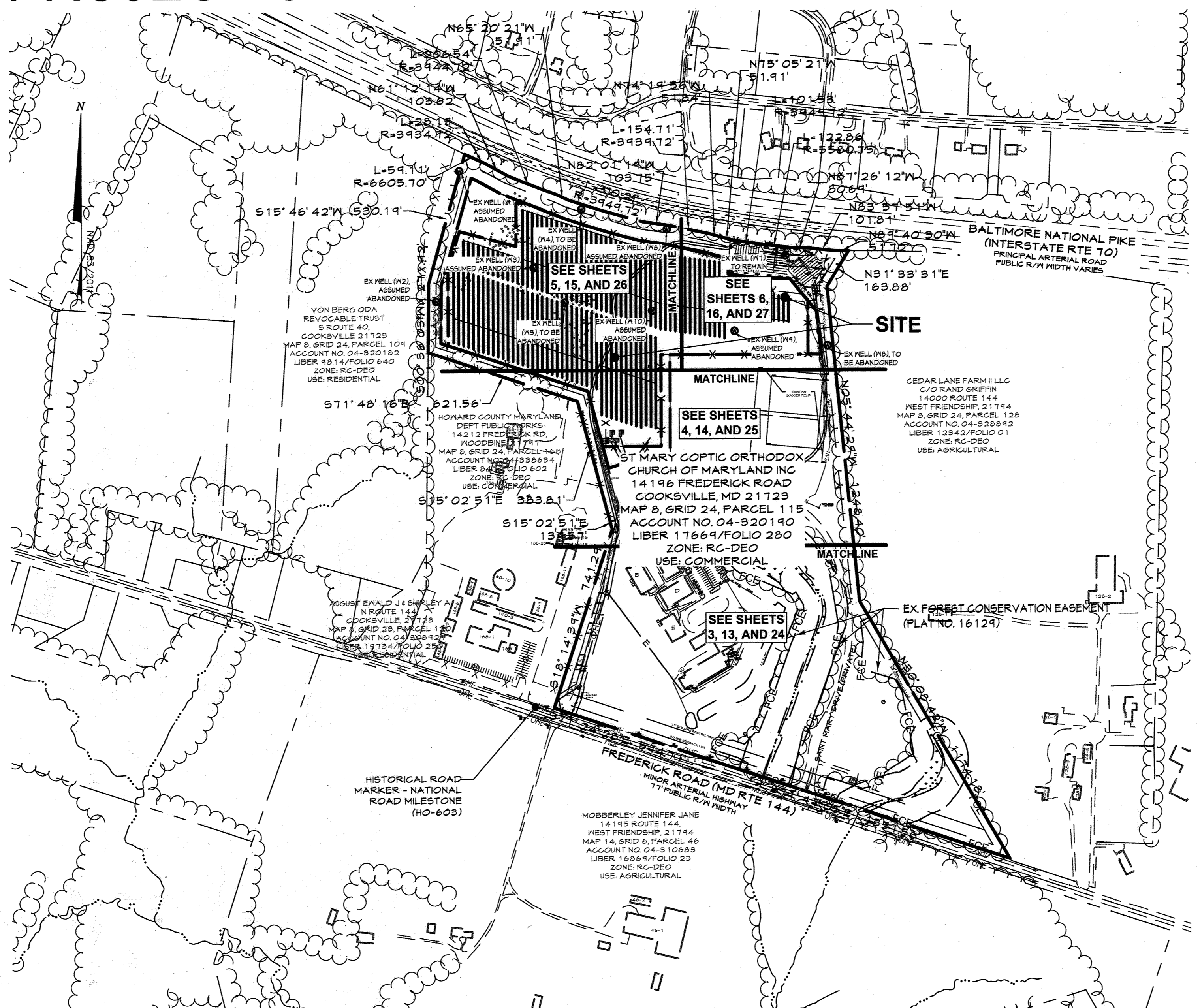


GENERAL NOTES

- 1. OVERALL PROPERTY AREA = 66.1 ACRES
2. DEVELOPMENT AREA = 14.1 ACRES
3. ZONING, RURAL CONSERVATION - DENSITY EXCHANGE OPTION (RC-DEO)
SOLAR IS NOT A PERMITTED USE, CONDITIONAL USE ONLY
NOTE: ALL ADJACENT PROPERTIES ARE ZONED RC-DEO
4. CURRENT USE, COMMERCIAL (CHURCH/SCHOOL)/OPEN LAND
PROPOSED USE, COMMERCIAL (CHURCH/SCHOOL)/SOLAR FACILITY
5. DEED BOOK/PAGE: 17669 / 280
6. COUNTY COUNCIL DISTRICT: 5
7. MAP/GRID/PARCEL: B/24/115
8. TAX ACCOUNT NO. 04-320190
9. SUBDIVISION NAME, WOODMONT ACADEMY
10. LOCAL COMMUNITY: COOKSVILLE
11. PREVIOUS DEVELOPMENT CASE ON FILE (SDP-03-040)
12. CENSUS TRACT - 604002
13. THE SITE IS SERVED BY PRIVATE WATER & SEWER
14. THE PROPERTY BOUNDARY SHOWN IS BASED ON PLAT NO. 16129
15. EXISTING TOPOGRAPHY PROVIDED FROM BEST AVAILABLE HOWARD COUNTY GIS RECORDS AND SUPPLEMENTED WITH FILES FROM APPROVED SDP-03-040, PROVIDED BY PENNONI
16. THE EXISTING SEPTIC FIELD WAS LOCATED VIA AS-BUILT PLANS AND SUPPLEMENTED WITH HOWARD COUNTY HEALTH DEPARTMENT RECORDS
17. 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, FOREST CONSERVATION EASEMENT AREAS, UNLESS WAIVERS HAVE BEEN APPROVED OR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING HAS CONSIDERED THEM NECESSARY
18. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM
19. 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
BEG (CONTRACTOR SERVICES)
BGE (UNDERGROUND DAMAGE CONTROL)
MISS UTILITY
COLONIAL PIPELINE COMPANY
HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES
HOWARD COUNTY HEALTH DEPARTMENT
AT&T
VERIZON
20. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-1111 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE
21. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
22. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/ BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-315-1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK
23. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE
24. THE PROJECT IS IN CONFORMANCE WITH THE CURRENT HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED
25. ALL HDPE PIPE SPECIFICATIONS AND INSTALLATIONS SHALL MEET AASHTO M-252 TYPE S, M-244 TYPE S AND ASTM D2521, RESPECTIVELY
26. SOIL CONACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER
27. STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET BY ONE (1) MICRO-BIORETENTION FACILITY (M-B), ONE (1) BIO-SWALE (M-B), TWO (2) BIORETENTION FACILITIES (F-B) AND NON-ROOFTOP DISCONNECTS (N-2)
28. THERE ARE NO HISTORIC FEATURES ON SITE
29. THE SITE DOES NOT LIE WITHIN THE 100-YEAR FLOODPLAIN, AS SHOWN ON F.I.R.M. #2402700035D, PANEL 35 OF 235, DATED NOVEMBER 6, 2013
30. MARKING WILL BE PROVIDED TO EMERGENCY RESPONDERS FOR APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO WORKING AROUND AND ISOLATING THE SOLAR ELECTRIC SYSTEM, THERE SHALL BE A SIGN INDICATING THE ELECTRICAL HAZARDS PRESENT, AND EMERGENCY CONTACT INFORMATION FOR THE SITE REPRESENTATIVES, A PLAN SHOWING THIS INFORMATION 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
31. A VEGETATION MANAGEMENT PLAN SHALL BE PROVIDED AND KEPT ON FILE WITH THE OFFICE OF THE FIRE MARSHALL
32. TRAINING SHALL BE PROVIDED BY THE DEVELOPER/SOLAR FARM MANAGER TO THE FIRE DEPARTMENT
33. THIS PROPERTY IS SUBJECT TO THE HOWARD COUNTY CASE BA-21-028C TO ALLOW THE CONDITIONAL USE FOR A COMMERCIAL SOLAR FACILITY AND WAS APPROVED ON FEBRUARY 24, 2022 WITH THE FOLLOWING CONDITIONS:
(1) THE COMMERCIAL SOLAR FACILITY CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL ONLY TO THE PETITION AS SUBMITTED AND AS SHOWN ON THE CONDITIONAL USE PLAN DATED SEPTEMBER 22, 2021, SUBMITTED WITH THE PETITION, AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.
(2) THE PETITIONER SHALL BE GRANTED RELIEF FROM THE TYPE 'D' LANDSCAPE BUFFER REQUIRED FOR THE AREAS IDENTIFIED ON THE PLAN ALONG THE EAST BOUNDARY OF THE PROPERTY, PROVIDED THAT THE EXISTING VEGETATION AND EXISTING TREE BUFFERS IN THAT AREA REMAIN.
(3) THE PETITIONER SHALL COMPLY WITH ALL CONDITIONAL USE STANDARDS.
(4) THE SITE DEVELOPMENT PLAN, OR ITS EQUIVALENT, SHALL INCLUDE A NOTE CONTAINING ALL CONDITIONS OF APPROVAL.
(5) PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
(6) THE SYSTEMS INSTALLED BY THE PETITIONER ON THE PROPERTY SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
(7) A COMMERCIAL GROUND-MOUNT SOLAR COLLECTOR FACILITY THAT IS NO LONGER USED SHALL BE REMOVED FROM THE SITE WITHIN 6 MONTHS OF THE DATE THAT THE USE CEASES, THE PROPERTY OWNER SHALL SECURE THIS OBLIGATION BY MAINTAINING A BOND, ESCROW, OR OTHER FORM OF SECURITY, IN AN AMOUNT EQUAL TO THE ESTIMATED FUTURE COST OF REMOVAL, WHICH IS ACCEPTABLE TO THE DIRECTOR OR FINANCE.
(8) 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 GROUND-MOUNT SOLAR COLLECTOR FACILITY.
(9) THE APPLICANT SHALL AGREE TO REGISTER ALL SOLAR COLLECTORS WITH THE DEPARTMENT OF FIRE AND RESCUE SERVICES. THE REGISTRATION SHALL INCLUDE A MAP OF THE SOLAR FACILITY NOTING THE LOCATION OF THE SOLAR COLLECTORS AND PANEL DISCONNECT.
(10) TREE REMOVAL SHALL BE MINIMIZED AND REFORESTATION SHALL BE DONE IN ACCORDANCE WITH SECTION 16.1226 OF THE HOWARD COUNTY CODE.
(11) ALL REQUIRED LANDSCAPING SHALL BE PROVIDED WITHIN 6 MONTHS OF INSTALLATION OF THE SOLAR PANELS.
34. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL SURETY FOR THE REQUIRED LANDSCAPING, INCLUDING 14 SHADE TREES AT \$300 EACH, 55 ORNAMENTAL TREES AT \$150 EACH, AND 310 EVERGREEN TREES AT \$150 EACH. THE TOTAL FINANCIAL SURETY IN THE AMOUNT OF \$60,000.00, WILL BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT.
35. THERE IS AN EXISTING FOREST CONSERVATION EASEMENT RECORDED AMONG LAND RECORDS OF HOWARD COUNTY AT PLAT M.D.R. NO. 16129, ALL FOREST CONSERVATION OBLIGATIONS NERE MET AND SATISFIED WITH THE APPROVED SITE PLAN SDP03-040
36. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT, NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
37. THE SITE IS CURRENTLY SERVED BY EXISTING ON-SITE WELL AND SEPTIC, AS SHOWN.
38. MARYLAND STATE ROUTE 144 (FREDERICK ROAD) IS CLASSIFIED AS A SCENIC ROAD, AS SHOWN AND SUBJECT TO REGULATIONS REQUIRED BY SECTION 16.125 (PROTECTION OF SCENIC ROADS) OF THE COUNTY CODE.
39. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO ANY VARIATION TO THIS REQUIREMENT IN ORDER TO PROTECT THE PUBLIC HEALTH AND WELFARE OF THE COMMUNITY. REORDINATION OF A MODIFIED SEWAGE EASEMENT PLAN SHALL NOT BE NECESSARY.
40. STATUS OF EXISTING MONITORING WELLS ARE SHOWN, PER SEPTEMBER 14, 2022 SITE VISIT. ALL MONITORING WELLS ON-SITE MUST BE FOUND AND SEALED BY A LICENSED WELL DRILLER PRIOR TO BUILDING PERMIT FOR THE SOLAR PANELS.
41. THE EXISTING SEWAGE DISPOSAL SYSTEM WAS EVALUATED AND FOUND TO HAVE SEVERAL BROKEN LATERAL PIPES IN ALL THREE CELLS IN 2017, CELLS 'B' AND 'C' WERE REPAIRED AND PRESSURE TESTED, THEY ARE CURRENTLY IN USE. CELL 'A' WAS NOT REPAIRED OR PRESSURE TESTED, IT IS NOT APPROVED FOR USE AS A REPAIR SYSTEM UNTIL IT IS REPAIRED AND PRESSURE TESTED UNDER A SEPTIC PERMIT.
42. MUCH OF THE AREA PREVIOUSLY ESTABLISHED AS THE SEWAGE DISPOSAL AREA IN THE PERC CERTIFICATION PLAN SIGNED IN 2003 WAS SUBSEQUENTLY GRADED. FURTHER FIELD WORK WOULD BE REQUIRED TO ESTABLISH WHETHER ANY OF IT WOULD BE SUITABLE FOR SEWAGE DISPOSAL.
43. A PERMANENT FENCE MUST BE INSTALLED AROUND THE PROPOSED SEWAGE DISPOSAL AREA PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT FOR THE SOLAR PANEL INSTALLATION.

SITE DEVELOPMENT PLAN
PROJECT CHABERTON SOLAR CATHERINE



SITE NOTES

- 1. OVERALL PROPERTY AREA = 66.1 ACRES
2. DEVELOPMENT (CONDITIONAL USE) AREA = 14.1 ACRES
3. DISTURBED AREA = 18,913 SF, 18.1 AC
4. FENCE AREA = 79,300 SF, 18.8 AC
5. SOLAR ARRAY AREA = 579,251 SF, 13.3 AC
6. EARTHWORK ANALYSIS:
TOTAL CUT = 0,780 CY
TOTAL FILL = 0,780 CY
NO SPOIL OR BORROW MATERIAL REQUIRED.
7. THERE ARE NO HISTORIC FEATURES ON SITE.
8. THE SITE DOES NOT LIE WITHIN THE 100-YEAR FLOODPLAIN, AS SHOWN ON F.I.R.M. #2402700035D, PANEL 35 OF 235, DATED NOVEMBER 6, 2013
9. ZONING REGULATIONS SECTION 104.0.E BULK REQUIREMENTS & SECTION 13.1.O.N.52 SOLAR FACILITY, COMMERCIAL:
MIN. LOT SIZE 10 ACRES
REQUIRED 66.1 ACRES
PROVIDED
MIN. SETBACK (BRL)
FRONT: 15 FT 87 FT (92 FT TO SOLAR AREA)
SIDE (SOLAR): 50 FT 30 FT
REAR: 15 FT 15 FT
HEIGHT: 25 FT 19 FT
10. WATERSHED: MIDDLE PATUXENT RIVER & S. BRANCH PATAPUSCO
11. THERE ARE TWO (2) EXISTING STREAMS ON-SITE, OUTSIDE OF THE DEVELOPMENT AREA.
12. THERE ARE EXISTING WETLANDS ON-SITE, OUTSIDE OF THE AREA OF DEVELOPMENT.
13. THERE ARE MAN-MADE STEEP SLOPES ON-SITE (GREATER THAN 25% SLOPE, GREATER THAN 10 VERTICAL FEET), PER APPROVED SITE PLAN SDP 03-040.
14. THE DEVELOPMENT PROPOSES DISTURBANCE (MOUNTED PILES ONLY) ON MAN-MADE STEEP SLOPES, HOWEVER, PER SECTION 16.116(d) (PROTECTION OF WETLANDS, STREAMS, AND STEEP SLOPES) OF THE COUNTY CODE, DISTURBANCE IS PERMITTED IF THE AREAS OF STEEP SLOPES ARE LESS THAN 20,000 SF.
THE AREA(S) WHERE DISTURBANCE IS PROPOSED OVER SLOPES GREATER THAN 25% DO NOT REACH A VERTICAL HEIGHT OF 10 FEET AND, THEREFORE, ARE NOT CONSIDERED STEEP SLOPES.
15. NO FOREST CLEARING OR SPECIMEN TREE REMOVAL PROPOSED.



SOIL PROPERTIES

Table with columns: SYMBOL, DESCRIPTION, K-FACTOR, ERODIBLE, HYDRIC, HSG, DRAINAGE CLASS. Includes soil types like BaA, GcB, GcC, GmB.

SOIL DATA OBTAINED FROM NRCS WEB SOIL SURVEY MAPPING.

PREVIOUS DPZ FILE(S): SDP-03-040 BA-17-010C

CURRENT DPZ FILE(S): CASE NO. BA-21-028C - CONDITIONAL USE PETITION FOR COMMERCIAL GROUND MOUNT SOLAR COLLECTOR FACILITY (SECTION 13.1.O.N.52)

Form with sections: ADDRESS CHART (LOT/PARCEL #, STREET ADDRESS), PERMIT INFORMATION CHART (Subdivision Name, Plat #, Grid #, Tax Map #, Elected District, Census Tract, Water Code, Sewer Code).

INDEX OF SHEET

- COVER SHEET
EXISTING CONDITIONS PLAN
SITE AND GRADING PLAN 1
SITE AND GRADING PLAN 2
SITE AND GRADING PLAN 3
SITE AND GRADING PLAN 4
SITE DETAILS
SITE DETAILS
EXISTING DRAINAGE AREA MAP
PROPOSED DRAINAGE AREA MAP
STORMWATER MANAGEMENT DRAINAGE AREA MAP
STORM DRAIN DRAINAGE AREA MAP
STORMWATER MANAGEMENT PLAN 1
STORMWATER MANAGEMENT PLAN 2
STORMWATER MANAGEMENT PLAN 3
STORMWATER MANAGEMENT PLAN 4
STORMWATER MANAGEMENT PLANTING PLAN
STORMWATER MANAGEMENT DETAILS 1
STORMWATER MANAGEMENT DETAILS 2
STORMWATER MANAGEMENT NOTES
LANDSCAPE PLAN 1
LANDSCAPE PLAN 2
LANDSCAPE DETAILS
EROSION & SEDIMENT CONTROL PLAN 1
EROSION & SEDIMENT CONTROL PLAN 2
EROSION & SEDIMENT CONTROL PLAN 3
EROSION & SEDIMENT CONTROL PLAN 4
EROSION & SEDIMENT CONTROL DETAILS
EROSION & SEDIMENT CONTROL NOTES

1 R1
2 R1
3 R1
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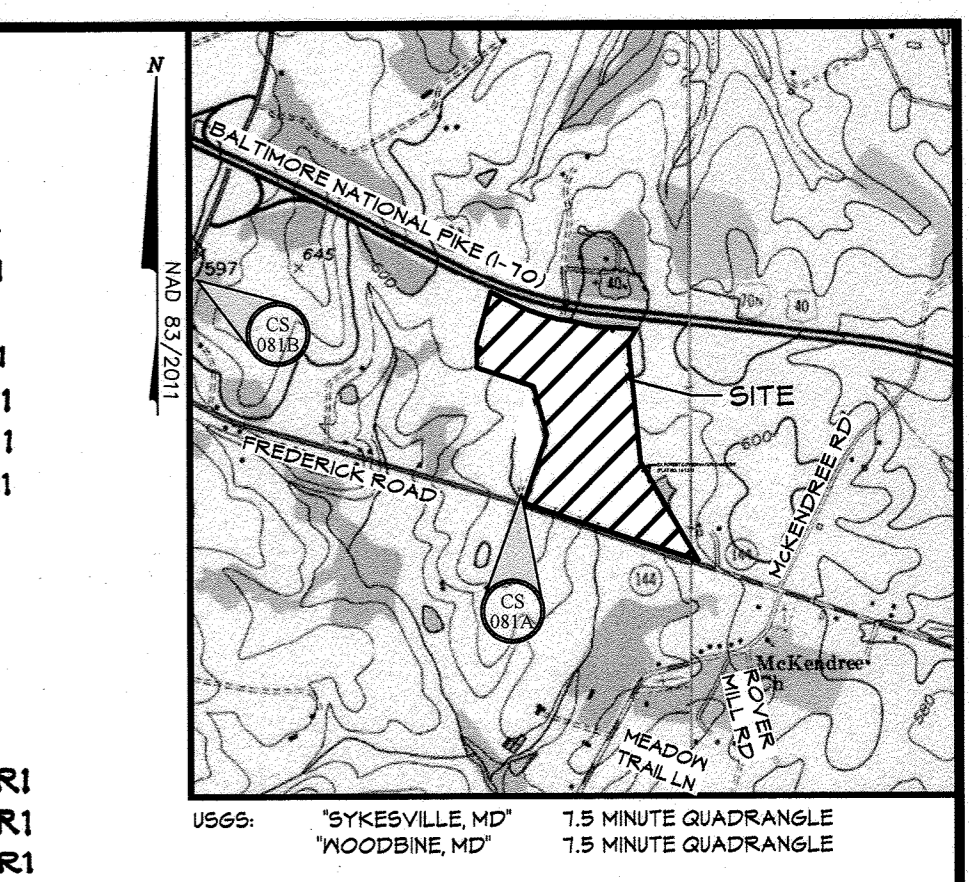


Table with columns: BENCHMARK, CONTROL STATION 081A, CONTROL STATION 081B, ELEVATION, N, E, UTM, LOCATION.

EXISTING LEGEND

- Site Property Boundary
Existing Minor Contour
Existing Major Contour
Existing Stream
Existing Stream Buffer
Forest Conservation Easement
Existing Wetlands
Existing Wetlands Buffer
Existing Tree Line
Existing Drive
Existing Building
Existing Overhead Electric
Existing Buried Electric
Existing BGE Utility Pole
Existing Fence Line
Soil Line
Existing Sanitary Sewer
Existing Storm Drain
Existing Well

PROPOSED LEGEND

- Conditional Use (CU) Area
Proposed Powercon Switchgear
Proposed Limit of Disturbance
Proposed Grades
Proposed Overhead Electric
Proposed Underground Electric
Proposed Utility Pole
Proposed Solar Panels
Proposed Fence
Proposed Concrete Pad
Proposed Gravel Drive

Table with columns: APPLICANT/DEVELOPER, ENGINEER, PROJECT INFORMATION, CONTACT INFORMATION.

SITE ANALYSIS DATA CHART:

Table with 2 columns: SITE AREA, AREA OF PLAN SUBMISSION. Lists various site features and their respective areas.

DATUM: HORIZONTAL DATUM: NAD 83 (2011) VERTICAL DATUM: NAVD 88

- EXIST. CONDITION NOTES:
1. Existing topography provided from aerial survey by McKenzie Snider, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
2. Forest stand treeline field located by Century Engineering in November, 2021.
3. Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

M CENTURY ENGINEERING logo and contact information: A Kleinfelder Company, 16901 Melford Boulevard, Suite 120, Bowie, MD 20715.

COVER SHEET Chaberton Solar Catherine 14196 Frederick Road, Cooksville, MD

PROFESSIONAL CERTIFICATION section with PIERO MELLITS signature, license information, and project details.

T:\2021\1\Facilities\211049200 Project Catherine Solar Field Site\Civil\CADD\Drawings\SDP\Drawings\211049200(SDP-0)1_Cover_Sheet.dwg May 19, 2023 9:22pm janderson



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- FCE
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing BGE Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Existing Steep Slope Areas
- Existing Preservation Easement

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
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DATE	BY	REVISIONS

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120, Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

EXISTING CONDITIONS PLAN
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

Piero Mellits
 APPLICANT/DEVELOPER:
 CHABERTON SOLAR GATHERINE LLC
 CHABERTON SOLAR GATHERINE ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 KEMATTA STREET, SUITE 100
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5198
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX
 CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21723
 PHONE: (410) 910-9220
 ENGINEER:
 CENTURY ENGINEERING LLC
 16901 MELFORD BLVD, SUITE 124
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

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.: 21875
 EXPIRATION DATE: 2/12/24

PIERO VAN MELLITS
 No. 21875
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 4/5/2023

DRAWN BY: JLA
 DESIGN BY: JLA
 SCALE: AS SHOWN
 PROJECT No.: 21109200

REVIEW BY: PVM
 REVIEW DATE: 4/5/2023
 DRAWING: 2 of 29
 SDP-22-050

T:\2021\Facilities\21109200 Project, Catherine Solar\CADD Drawings\SDP Plans\21109200 (SDP-02) Existing Conditions Plan.dwg Apr 06, 2023 11:24pm Janderson

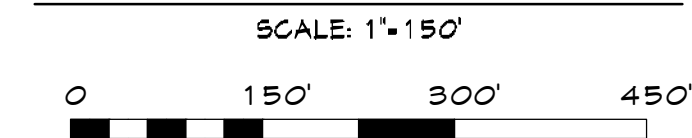
APPROVED: DEPARTMENT OF PLANNING AND ZONING

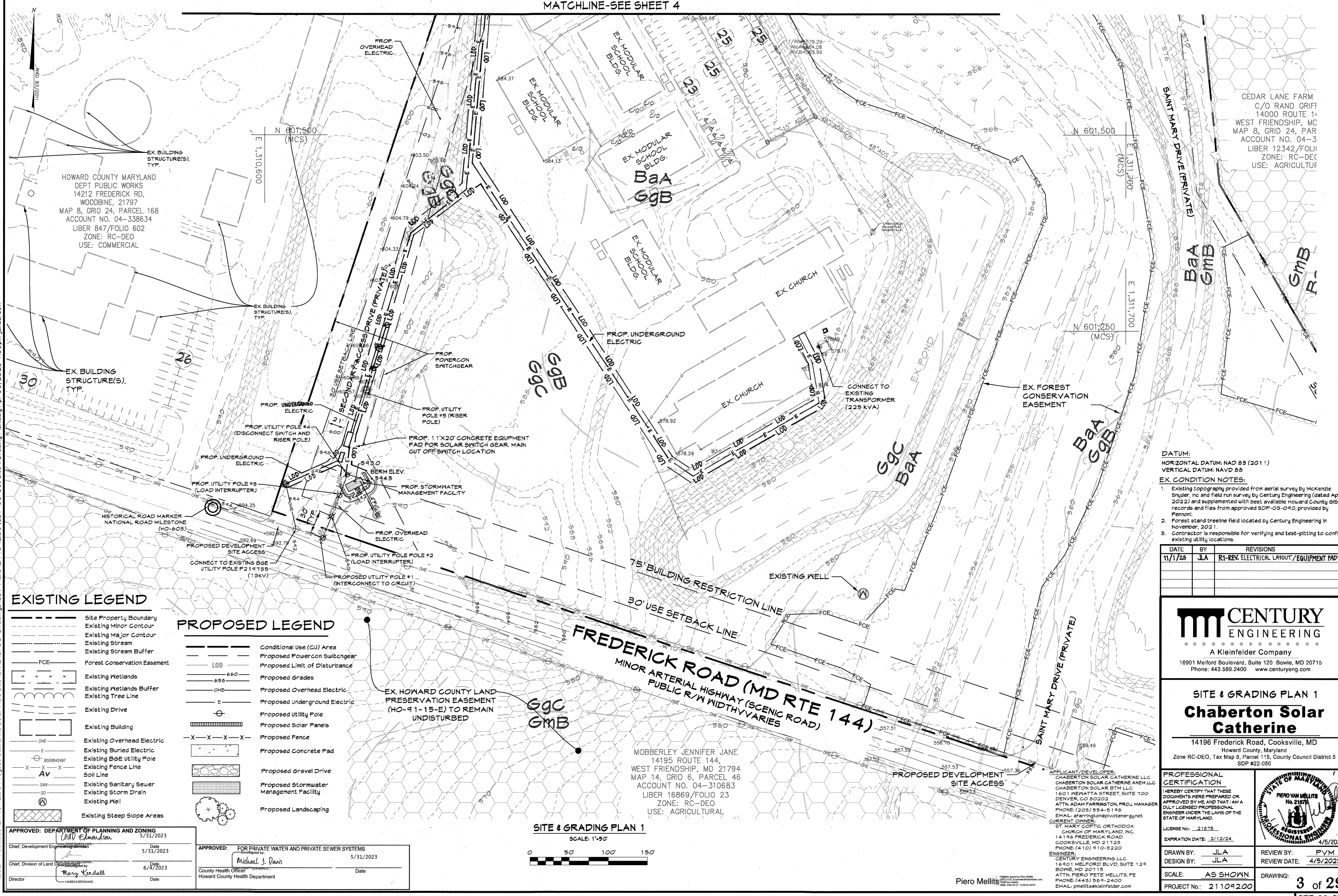
<i>(Signature)</i> Chief, Development Division	Date 5/31/2023
<i>(Signature)</i> Chief, Division of Land Management	Date 6/4/2023
<i>(Signature)</i> Director	Date

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS

<i>(Signature)</i> Michael J. Davis	Date 5/31/2023
County Health Officer	Date
Howard County Health Department	Date

EXISTING CONDITIONS PLAN
 SCALE: 1"=150'





HOWARD COUNTY MARYLAND
DEPT PUBLIC WORKS
14212 FREDERICK RD,
WOODBINE, 21797
MAP 8, GRID 24, PARCEL 168
ACCOUNT NO. 04-338634
LIBER 847/FOLIO 602
ZONE: RC-DEO
USE: COMMERCIAL

CEDAR LANE FARM
C/O RAND GRIFT
14000 ROUTE 14
WEST FRIENDSHIP, MC
MAP 8, GRID 24, PAR
ACCOUNT NO. 04-3
LIBER 12342/FOLIO
ZONE: RC-DEO
USE: AGRICULTUR

T:\2021\Facilities\21109200 Project Catherine Solar Field Site\CIVIL\CADD Drawings\SDP Plans\21109200 (SDP-03-06) Site & Grading Plan.dwg Apr 06, 2023 1:30pm Janderson

EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing BGE Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Existing Steep Slope Areas

PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Powercon Switchgear
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility
- Proposed Landscaping

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Date: 5/31/2023
Chief, Development Engineering

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
Date: 5/31/2023
Michael J. Davis
County Health Officer
Howard County Health Department

SITE & GRADING PLAN 1

SCALE: 1"=50'
0 50' 100' 150'

MOBBERLEY JENNIFER JANE
14195 ROUTE 144,
WEST FRIENDSHIP, MD 21794
MAP 14, GRID 6, PARCEL 46
ACCOUNT NO. 04-310683
LIBER 18869/FOLIO 23
ZONE: RC-DEO
USE: AGRICULTURAL

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

- EX. CONDITION NOTES:**
- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
 - Forest stand treeline field located by Century Engineering in November, 2021.
 - Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT/EQUIPMENT PAD

CENTURY ENGINEERING
A Kleinfelder Company
16901 Meiford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

SITE & GRADING PLAN 1
Chaberton Solar Catherine
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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.: 21819
EXPIRATION DATE: 2/12/24



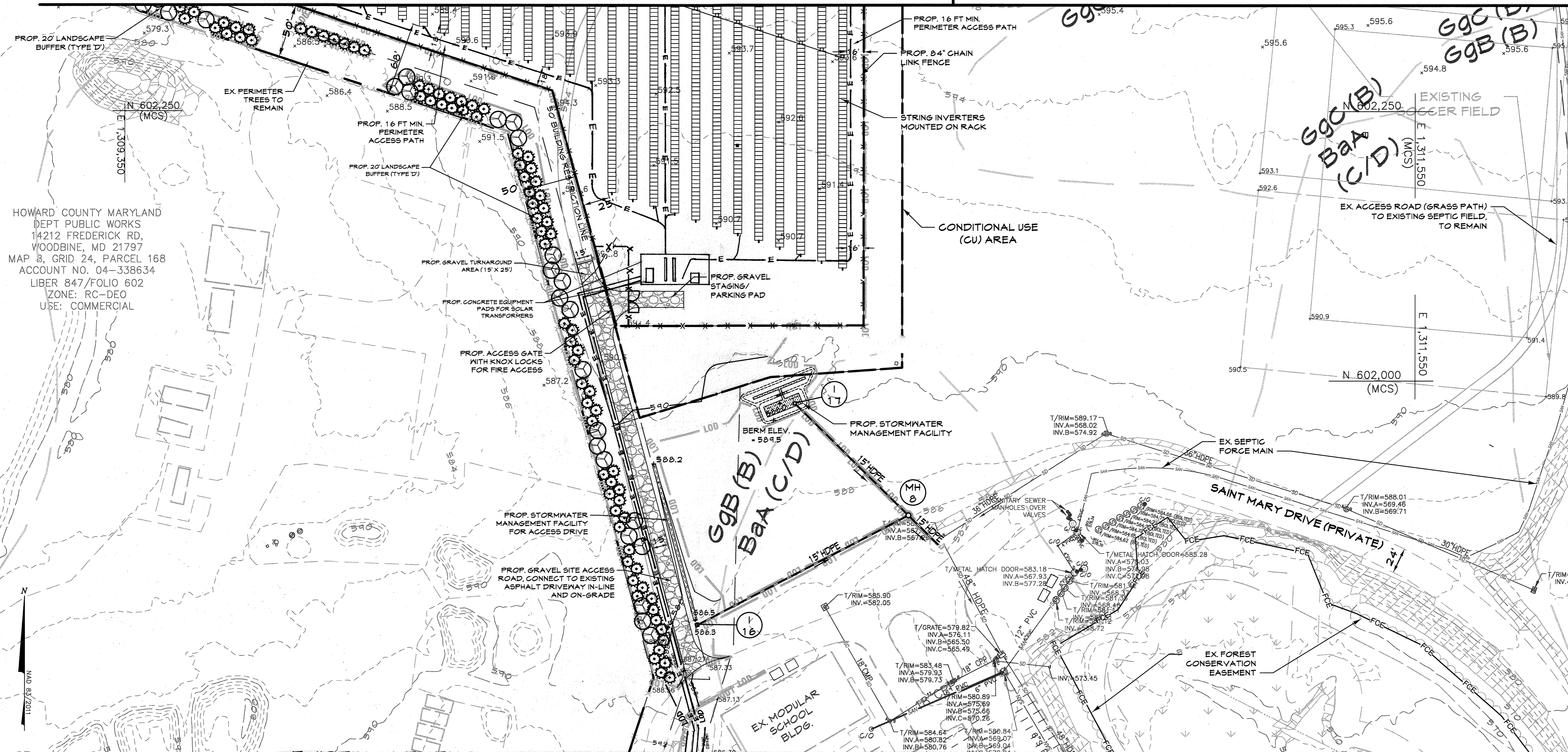
DRAWN BY: JLA	REVIEW BY: PVM
DESIGN BY: JLA	REVIEW DATE: 4/5/2023
SCALE: AS SHOWN	DRAWING: 3 of 29
PROJECT No.: 21109200	SDP-22-050

APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR CATHERINE ANEN LLC
CHABERTON SOLAR BTM LLC
1601 NEBATA STREET, SUITE 100
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 954-5198
EMAIL: afarrington@pivotenergy.net
CURRENT OWNER:
ST. MARY COPTIC ORTHODOX
CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD,
COOKSVILLE, MD 21123
PHONE: (410) 410-9220
ENGINEER:
CENTURY ENGINEERING LLC
16401 MELFORD BLVD, SUITE 124
BOWIE, MD 20715
ATTN: PIERO VAN MELLITS, PE
PHONE: (443) 584-2400
EMAIL: pmellits@kleinfelder.com

Piero Mellits

MATCHLINE-SEE SHEET 5

MATCHLINE-SEE SHEET 6



HOWARD COUNTY MARYLAND
DEPT PUBLIC WORKS
14212 FREDERICK RD,
WOODBINE, MD 21797
MAP 8, GRID 24, PARCEL 168
ACCOUNT NO. 04-338634
LIBER 847/FOLIO 602
ZONE: RC-DEO
USE: COMMERCIAL

CEDAR LANE FARM II LLC
C/O RAND GRIFFIN
14000 ROUTE 144
WEST FRIENDSHIP, MD 21794
MAP 8, GRID 24, PARCEL 128
ACCOUNT NO. 04-328892
LIBER 12342/FOLIO 01
ZONE: RC-DEO
USE: AGRICULTURAL

EX. HOWARD COUNTY LAND
PRESERVATION EASEMENT
(HO-91-03-E) TO REMAIN
UNDISTURBED

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Permit.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT/EQUIPMENT PAD

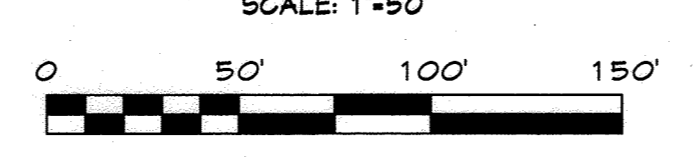
PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Power on Switchgear
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility
- Proposed Landscaping

EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing B&E Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Existing Steep Slope Areas

SITE & GRADING PLAN 2



APPROVED: DEPARTMENT OF PLANNING AND ZONING
Date: 5/31/2023
Chief, Development Engineering

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
Date: 5/31/2023
County Health Officer
Howard County Health Department

Piero Mellits
APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR ANEM LLC
CHABERTON SOLAR BTM LLC
1601 KEMATTA STREET, SUITE 200
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 554-5148
EMAIL: afarrington@pivotalenergy.net
CURRENT OWNER:
ST. MARY COPTIC ORTHODOX
CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD
COOKSVILLE, MD 21723
PHONE: (410) 410-9220
ENGINEER:
CENTURY ENGINEERING LLC
16401 MELFORD BLVD, SUITE 124
BOWIE, MD 20715
ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 584-2400
EMAIL: pmellits@kleinfelder.com

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.

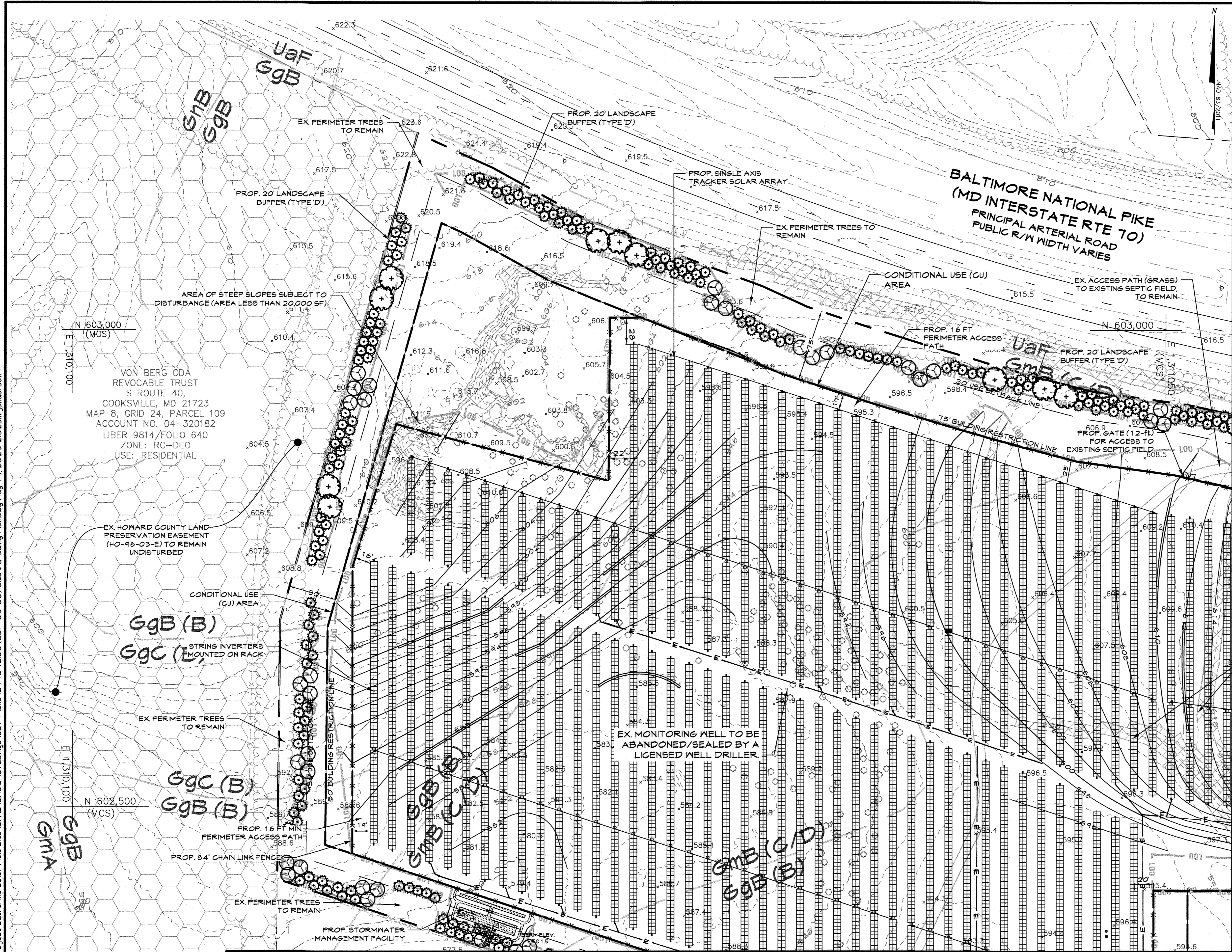
LICENSE No.: 21875
EXPIRATION DATE: 2/12/24

DATE: 4/5/2023

DRAWN BY: JLA
DESIGN BY: JLA
SCALE: AS SHOWN
PROJECT No.: 21109200

REVIEW BY: PVM
REVIEW DATE: 4/5/2023
DRAWING: 4 of 29

T:\2021\Facilities\21104200 Project Catherine Solar Field Site\CIVIL\CADD Drawings\SDP Plans\21104200 (SDP-03-06) Site & Grading Plan.dwg May 11, 2023 2:32pm janderson



PROPOSED LEGEND		EXISTING LEGEND	
	Conditional Use (CU) Area		Site Property Boundary
	Proposed Powercon Switchgear		Existing Minor Contour
	Proposed Limit of Disturbance		Existing Major Contour
	Proposed Grades		Existing Stream
	Proposed Overhead Electric		Existing Stream Buffer
	Proposed Underground Electric		Forest Conservation Easement
	Proposed Utility Pole		Existing Wetlands
	Proposed Solar Panels		Existing Wetlands Buffer
	Proposed Fence		Existing Tree Line
	Proposed Concrete Pad		Existing Drive
	Proposed Gravel Drive		Existing Building
	Proposed Stormwater Management Facility		Existing Overhead Electric
	Proposed Landscaping		Existing Buried Electric
			Existing BGE Utility Pole
			Existing Fence Line
			Soil Line
			Existing Sanitary Sewer
			Existing Storm Drain
			Existing Well
			Existing Steep Slope Areas

MATCHLINE-SEE SHEET 6

MATCHLINE-SEE SHEET 4

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	RI-REV. ELECTRICAL LAYOUT/EQUIPMENT PAD

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

SITE & GRADING PLAN 3
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

Piero Mellits
 APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR CATHERINE ANEM LLC
 CHABERTON SOLAR BTM LLC
 1621 WENKATTA STREET, SUITE 200
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 594-5118
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX
 CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21723
 PHONE: (410) 910-3220
 ENGINEER:
 CENTURY ENGINEERING LLC
 16901 MELFORD BLVD, SUITE 129
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

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. 21875
 EXPIRATION DATE: 2/12/24

PIERO VAN MELLITS
 No. 21875
 REGISTERED PROFESSIONAL ENGINEER

5/19/2023

DRAWN BY: JLA REVIEW BY: PYM
 DESIGN BY: JLA REVIEW DATE: 5/19/2023

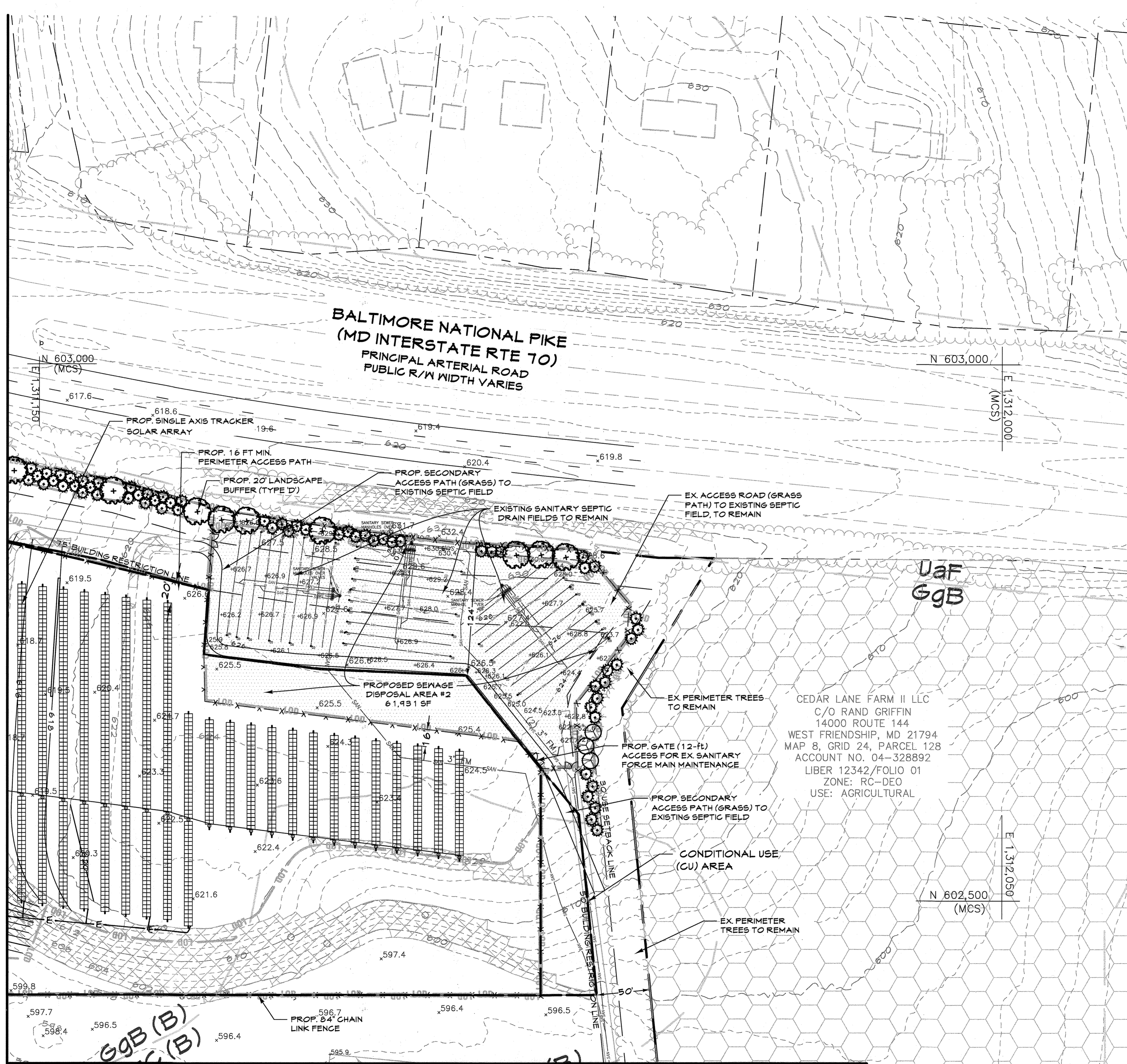
SCALE: AS SHOWN DRAWING: 5 of 29
 PROJECT No.: 21104200 SDP-22-050

SITE & GRADING PLAN 3
 SCALE: 1"=50'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 5/31/2023
 Chief, Development Engineering
 Date: 5/31/2023

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 5/31/2023
 Michael J. Davis
 County Health Officer
 Howard County Health Department
 Date: 6/4/2023
 Director: Mary Kendall

T:\2021\Facilities\211019200 Project Catherine Solar Field Site\CIVIL\CADD\Drawings\SDP Plans\211019200 (SDP-03-06) Site & Grading Plan.dwg May 19, 2023 2:46pm_janderson



PROPOSED LEGEND		EXISTING LEGEND	
	Conditional Use (CU) Area		Site Property Boundary
	Proposed Powercon Switchgear		Existing Minor Contour
	Proposed Limit of Disturbance		Existing Major Contour
	Proposed Grades		Existing Stream
	Proposed Overhead Electric		Existing Stream Buffer
	Proposed Underground Electric		Forest Conservation Easement
	Proposed Utility Pole		Existing Wetlands
	Proposed Solar Panels		Existing Wetlands Buffer
	Proposed Fence		Existing Tree Line
	Proposed Concrete Pad		Existing Drive
	Proposed Gravel Drive		Existing Building
	Proposed Stormwater Management Facility		Existing Overhead Electric
	Proposed Landscaping		Existing Buried Electric
			Existing BGE Utility Pole
			Existing Fence Line
			Soil Line
			Existing Sanitary Sewer
			Existing Storm Drain
			Existing Well
			Existing Steep Slope Areas

MATCHLINE-SEE SHEET 5

MATCHLINE-SEE SHEET 4

**BALTIMORE NATIONAL PIKE
(MD INTERSTATE RTE 70)
PRINCIPAL ARTERIAL ROAD
PUBLIC R/W WIDTH VARIES**

CEDAR LANE FARM II LLC
C/O RAND GRIFFIN
14000 ROUTE 144
WEST FRIENDSHIP, MD 21794
MAP 8, GRID 24, PARCEL 128
ACCOUNT NO. 04-328892
LIBER 12342/FOLIO 01
ZONE: RC-DEO
USE: AGRICULTURAL

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Fennell.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT/EQUIPMENT PAD

CENTURY ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

**SITE & GRADING PLAN 4
Chaberton Solar Catherine**
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

Piero Mellits
APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR CATHERINE ANEM LLC
CHABERTON SOLAR BTM LLC
1621 KEMATA STREET, SUITE 100
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 554-5148
EMAIL: afarrington@pivotenergy.net
CURRENT OWNER:
ST. MARY COPTIC ORTHODOX
CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD
COOKSVILLE, MD 21123
PHONE: (410) 910-3220
ENGINEER:
CENTURY ENGINEERING LLC
16401 MELFORD BLVD, SUITE 124
BOWIE, MD 20715
ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 589-2400
EMAIL: pmellits@kleinfelder.com

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.

EXPIRATION DATE: 2/12/24

DATE: 5/19/2023

DRAWN BY: JLA REVIEW BY: PVM
DESIGN BY: JLA REVIEW DATE: 5/19/2023

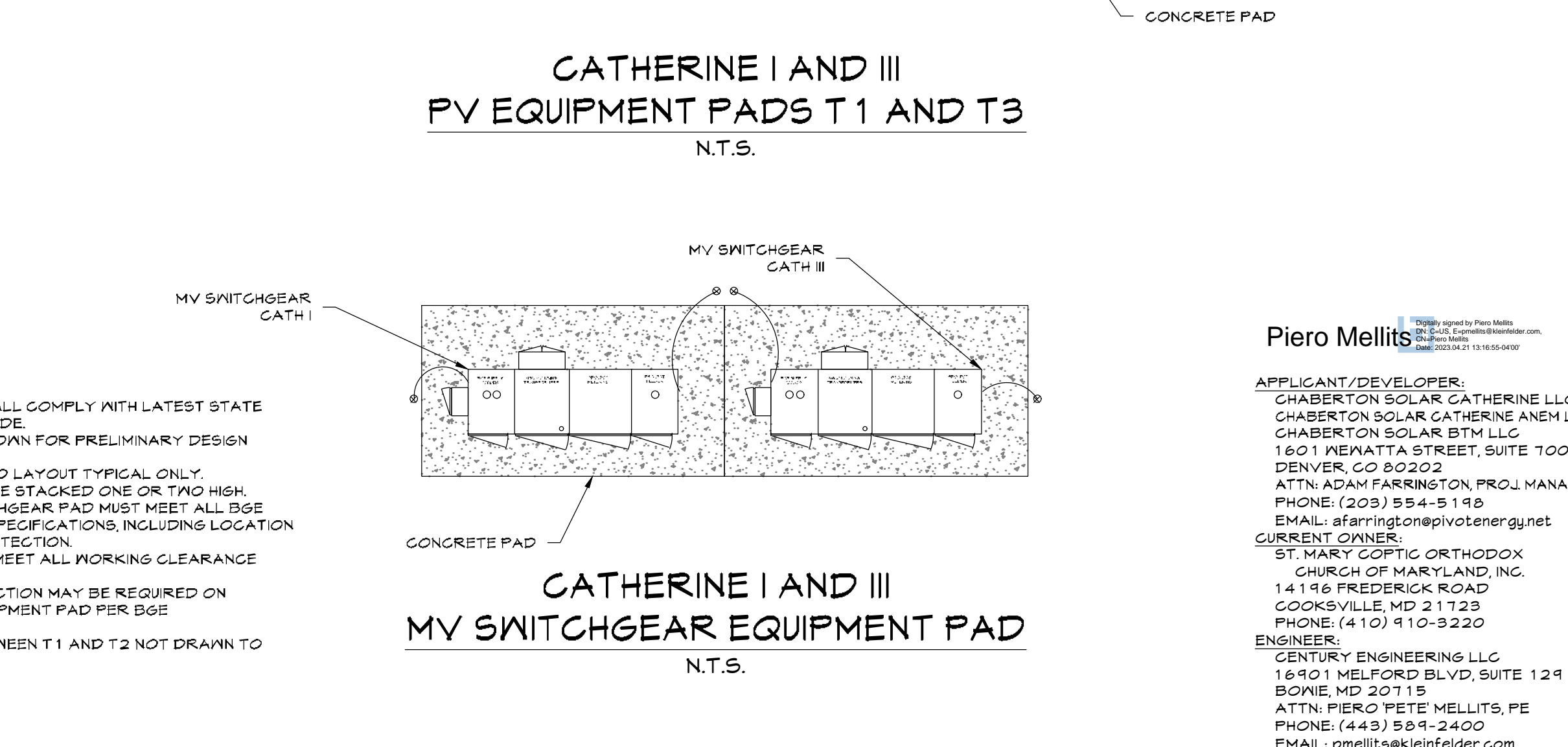
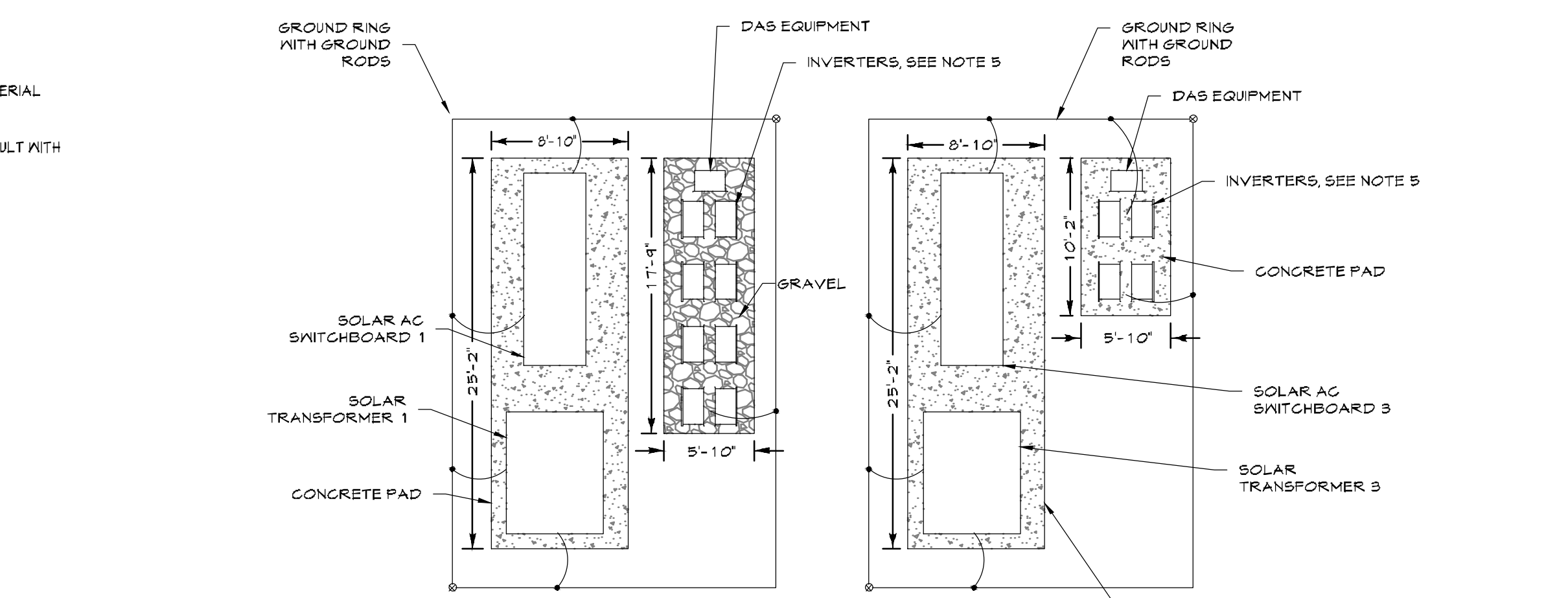
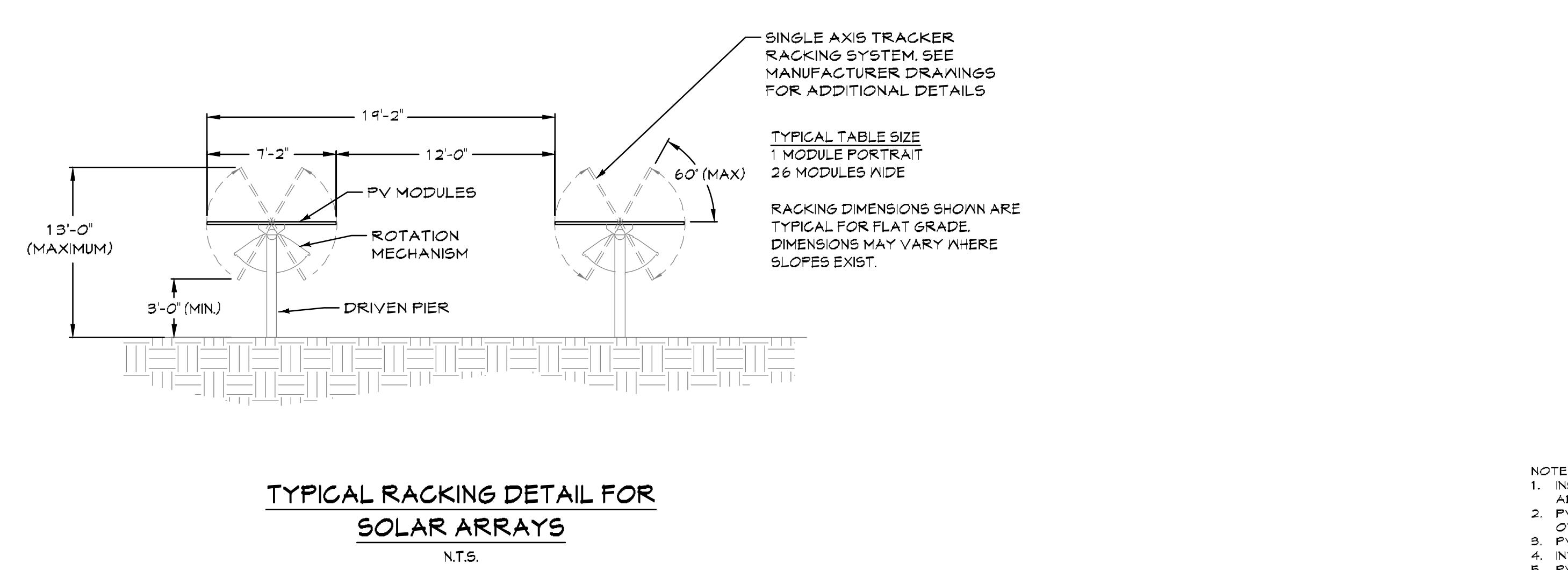
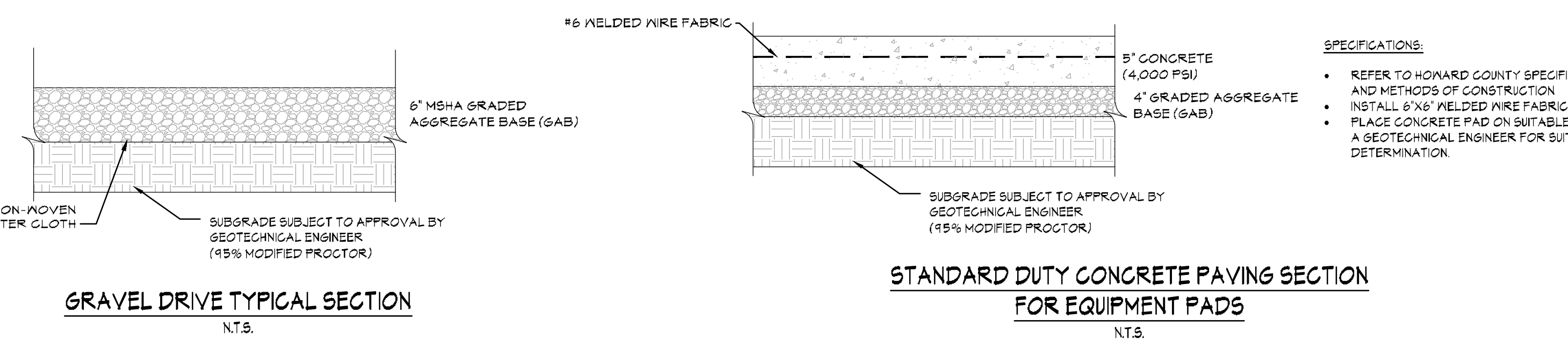
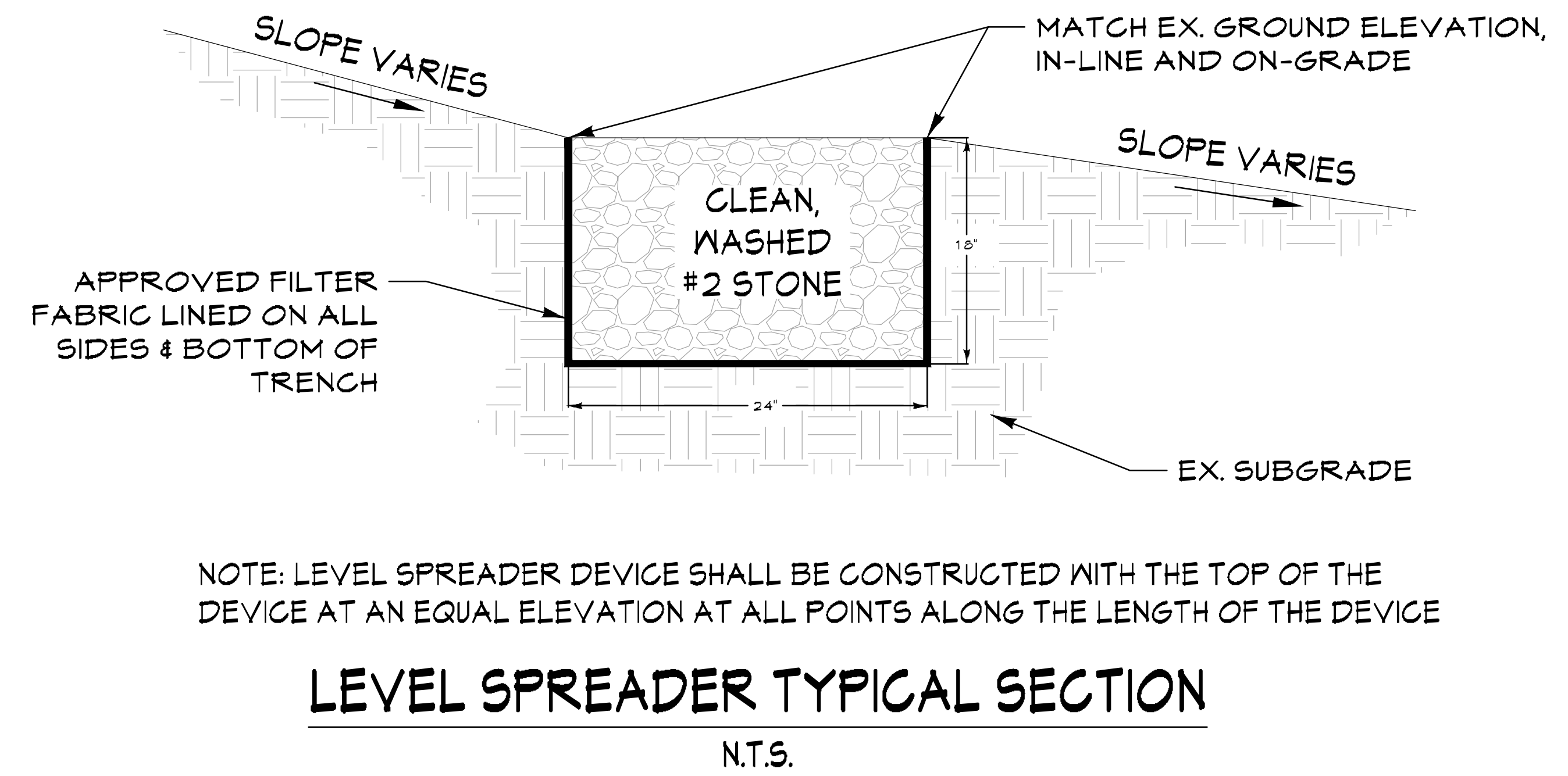
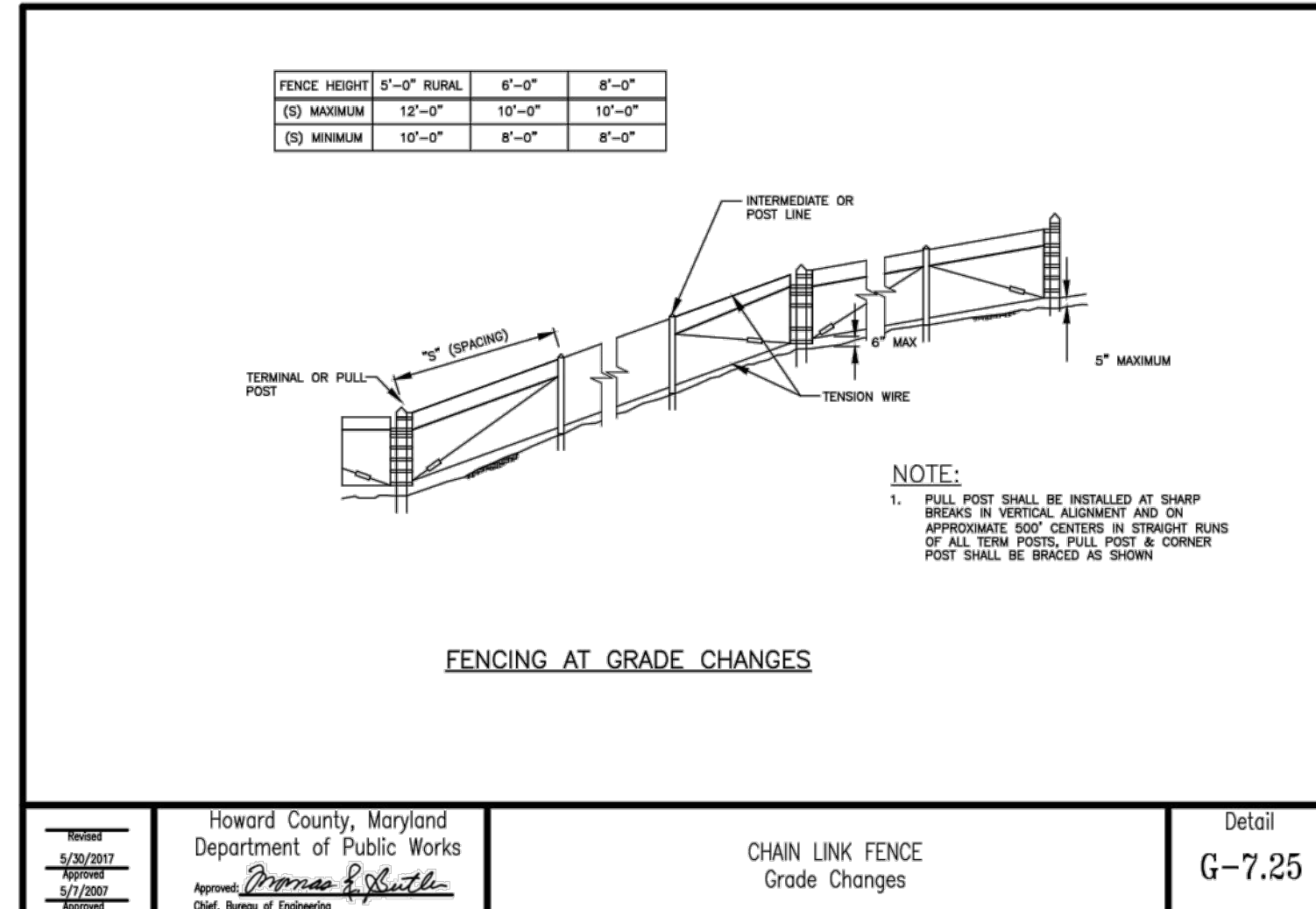
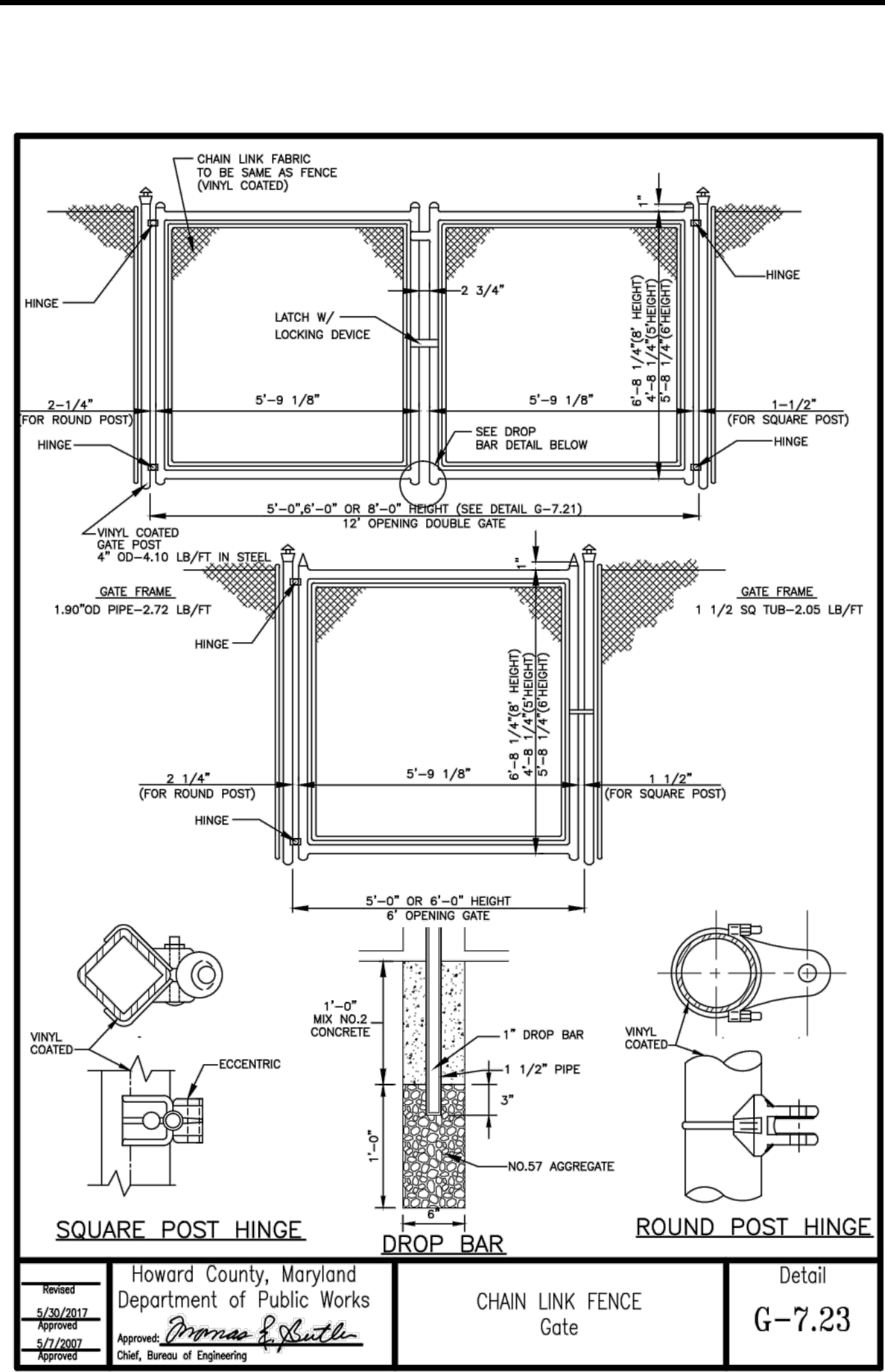
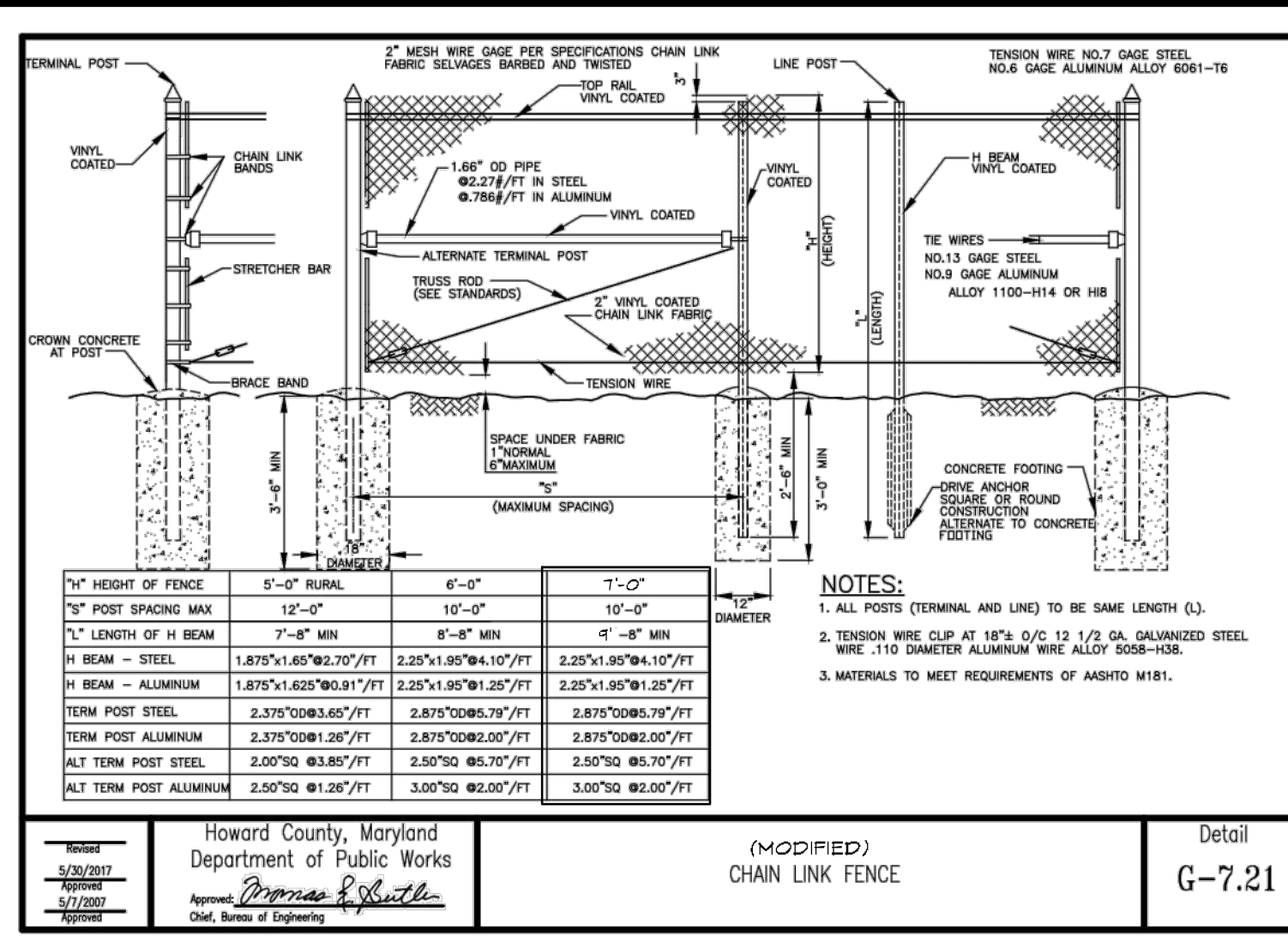
SCALE: AS SHOWN DRAWING: 6 of 29

PROJECT No.: 211019200

SITE & GRADING PLAN 4
SCALE: 1"=50'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
5/31/2023
Chief, Development Engineering Division
Date: 5/31/2023

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
5/31/2023
Developed by: Michael J. Davis
County Health Officer
Howard County Health Department
Date: 5/31/2023



APPROVED: DEPARTMENT OF PLANNING AND ZONING
5/31/2023
Chief, Development Engineering
Date: 5/31/2023

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
5/31/2023
Michael J. Davis
Date: 5/31/2023

APPROVED: COUNTY HEALTH OFFICE
6/4/2023
Mary Kendall
Date: 6/4/2023

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

CENTURY ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 120, Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

SITE DETAILS 1
Chaberton Solar Catherine
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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.: 21875
EXPIRATION DATE: 2/12/24

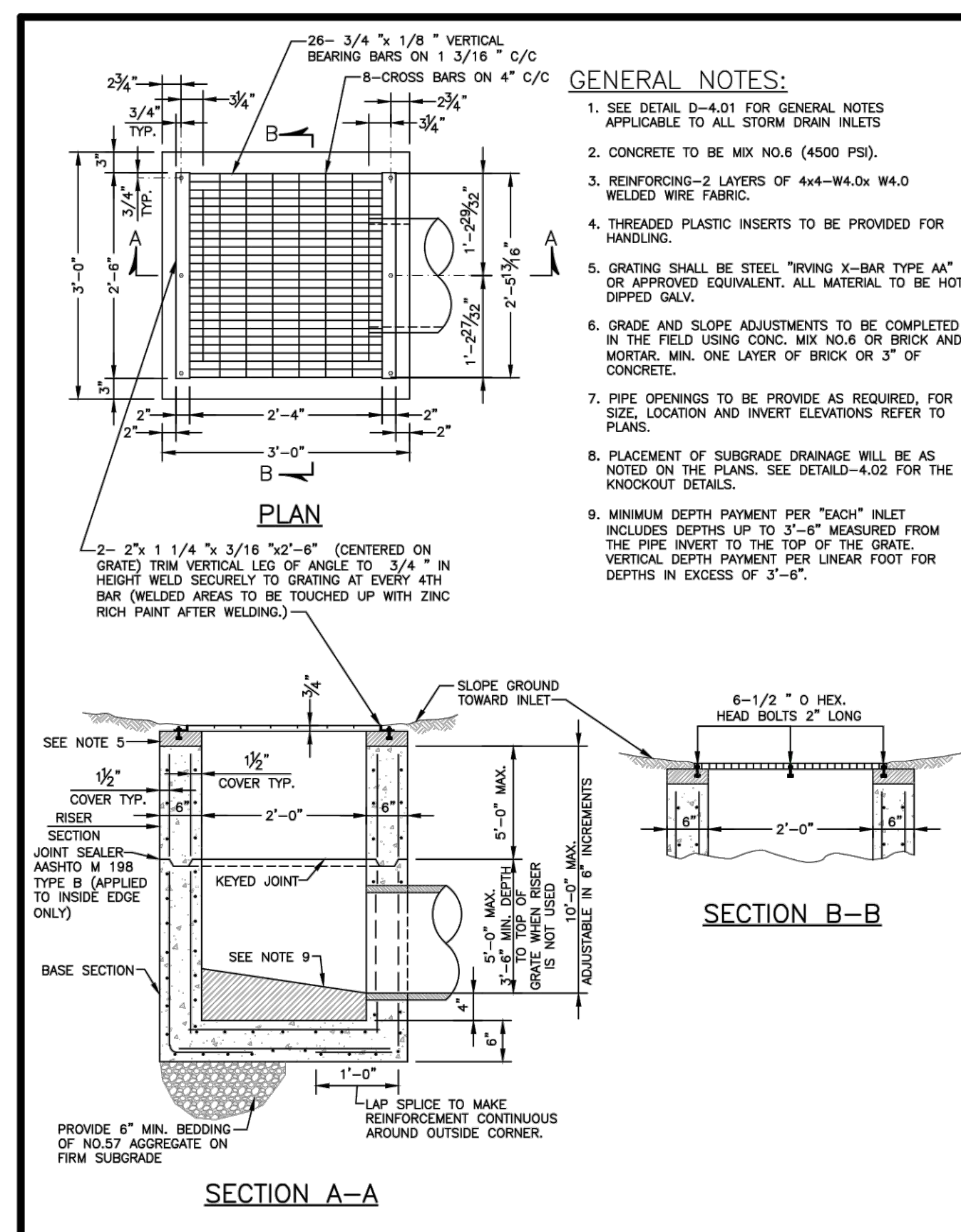
REGISTERED PROFESSIONAL ENGINEER
PIERO VAN MELLITS
No. 21875
4/5/2023

APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR CATHERINE ANEN LLC
CHABERTON SOLAR BTM LLC
1601 KEMATTA STREET, SUITE 700
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 554-5198
EMAIL: afarrington@pivotenergy.net
CURRENT OWNER:
ST. MARY COTTAGE ORTHODOX CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD
COOKSVILLE, MD 21123
PHONE: (410) 910-9220
ENGINEER:
CENTURY ENGINEERING LLC
16901 MELFORD BLVD, SUITE 129
BOWIE, MD 20715
ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 589-2400
EMAIL: pmellits@kleinfelder.com

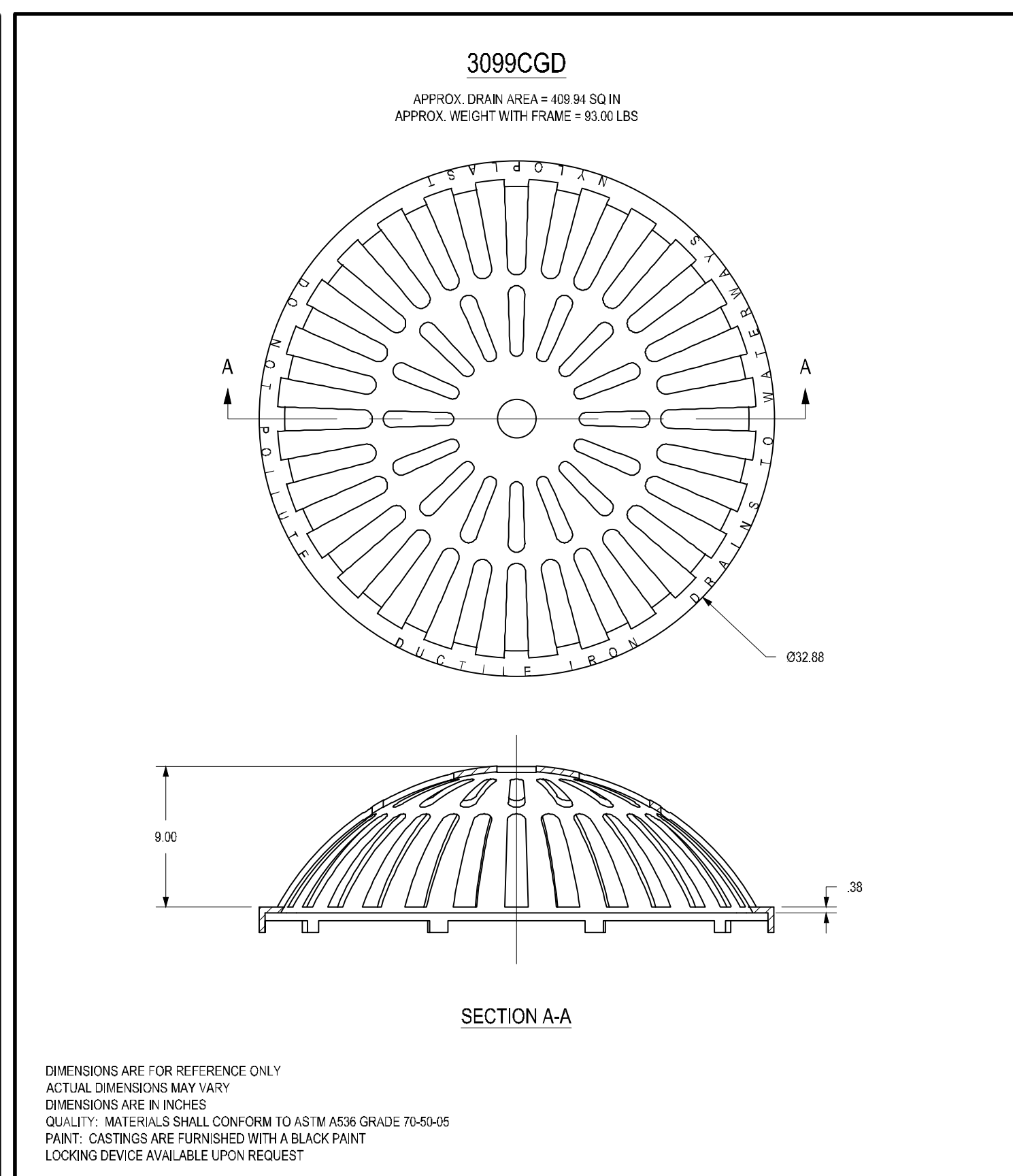
DRAWN BY: JLA
DESIGN BY: JLA
SCALE: AS SHOWN
PROJECT No.: 21109200

REVIEW BY: PVM
REVIEW DATE: 4/5/2023
DRAWING: 7 of 29
SDP-22-050

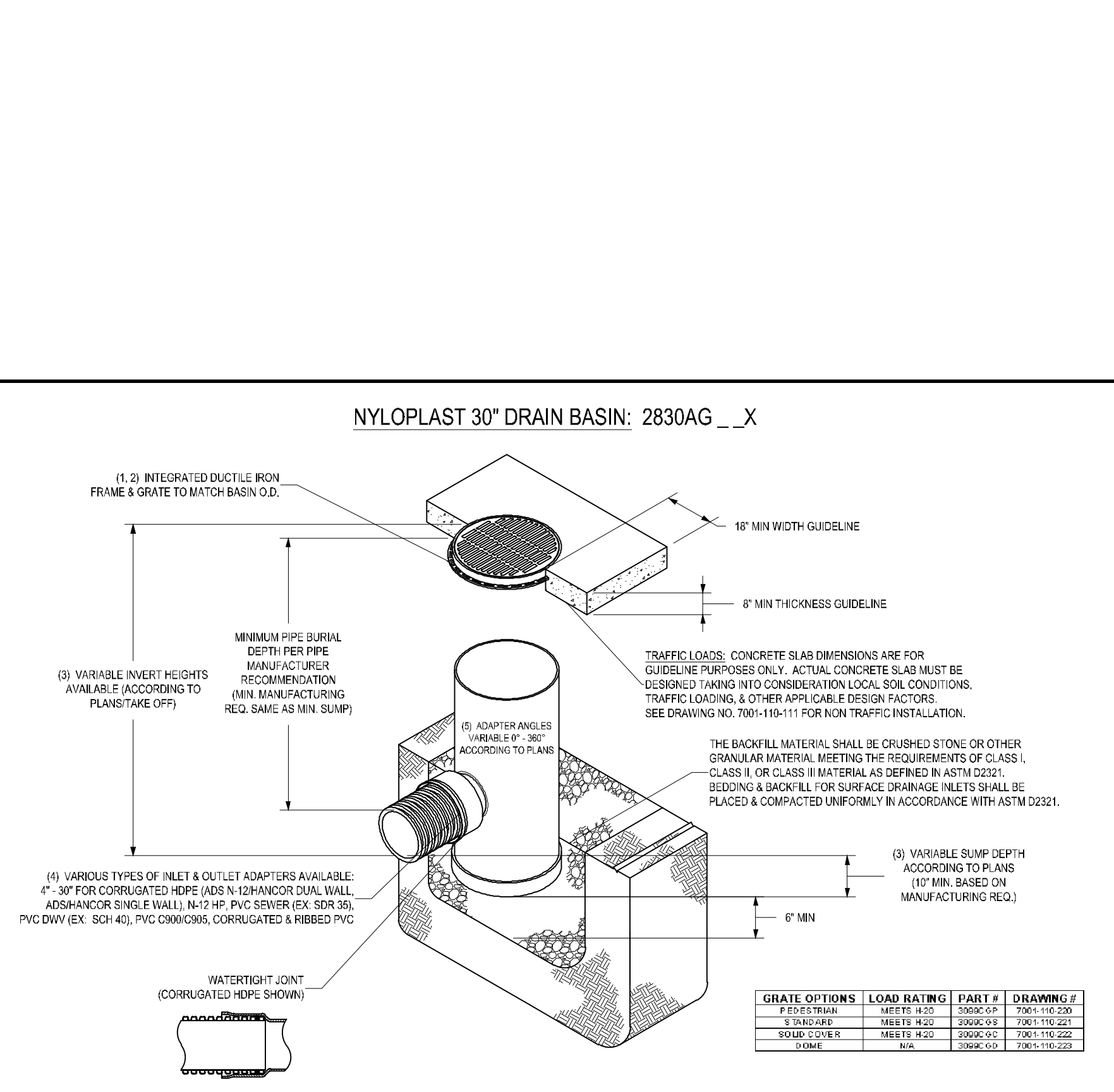
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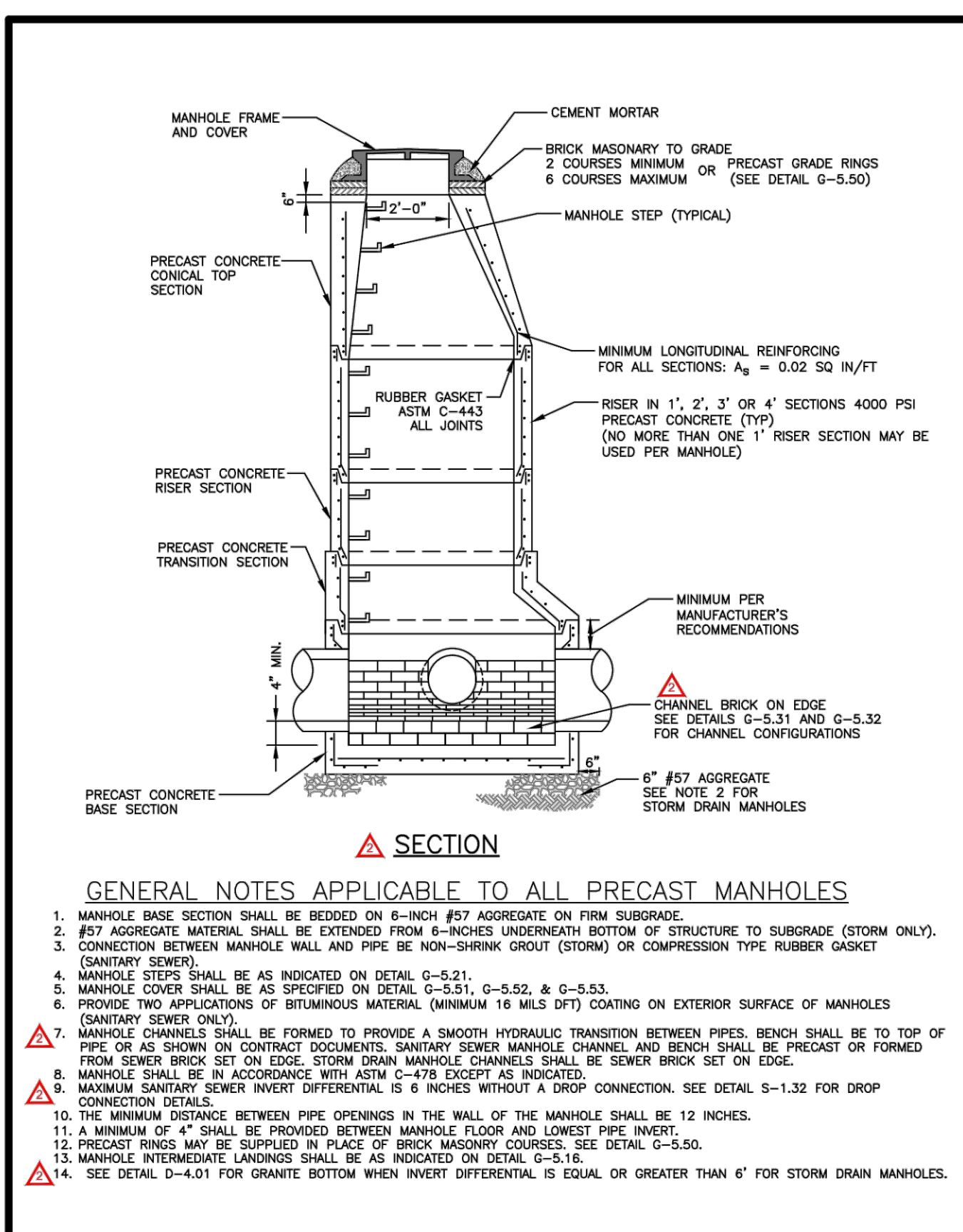
Revised	Howard County, Maryland Department of Public Works	Detail
Revised	YARD INLET Precast	D-4.12
Approved	Approved: <i>Dorcas & Smith</i> Chief, Bureau of Engineering	



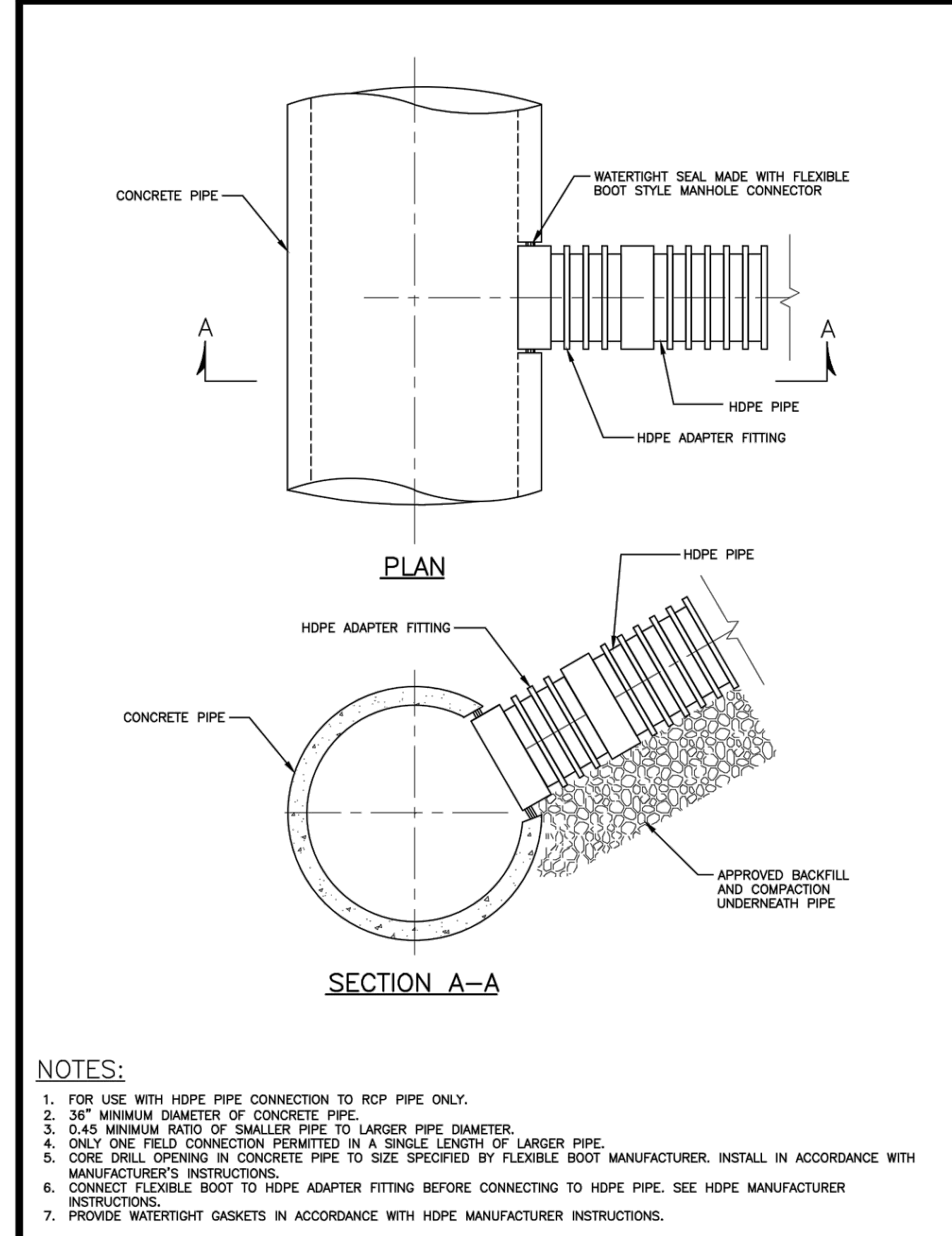
Revised	Howard County, Maryland Department of Public Works	Detail
Revised	3099CGD	D-4.12
Approved	Approved: <i>Dorcas & Smith</i> Chief, Bureau of Engineering	



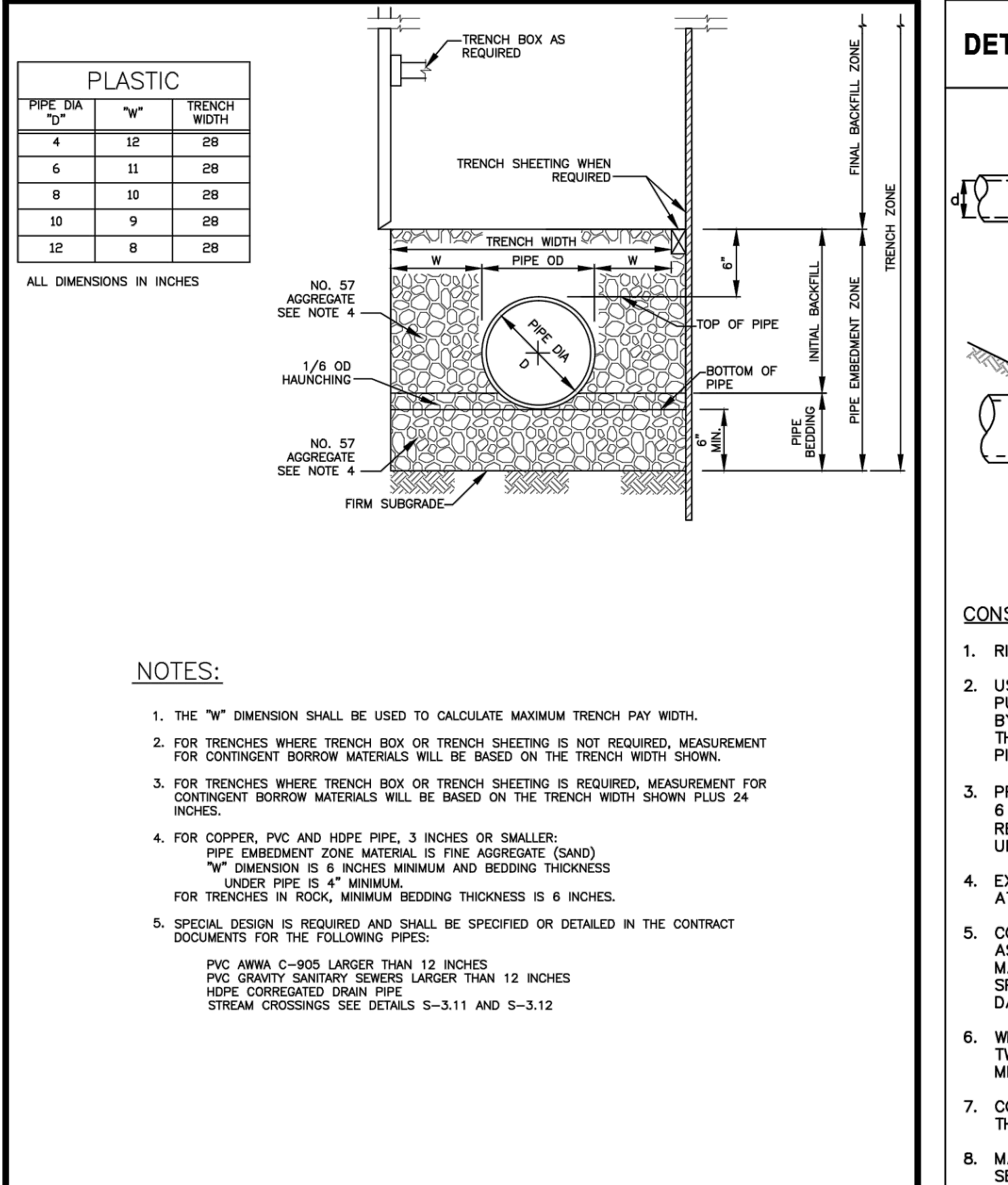
Revised	Howard County, Maryland Department of Public Works	Detail
Revised	NYLOPLAST 30" DRAIN BASIN	G-5.11
Approved	Approved: <i>Dorcas & Smith</i> Chief, Bureau of Engineering	



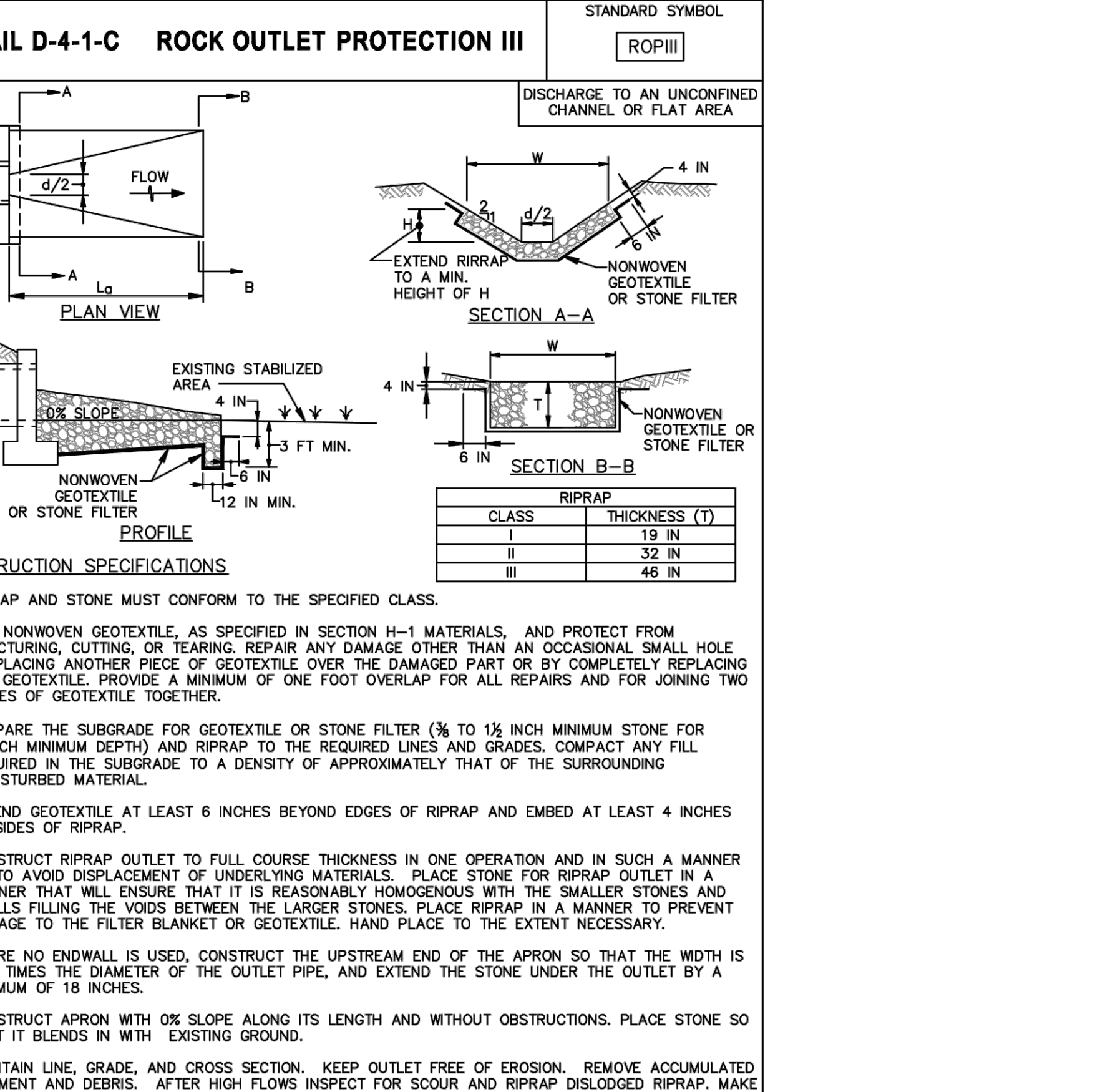
Revised	Howard County, Maryland Department of Public Works	Detail
Revised	PRECAST MANHOLE	G-5.11
Approved	Approved: <i>Dorcas & Smith</i> Chief, Bureau of Engineering	



Revised	Howard County, Maryland Department of Public Works	Detail
Revised	HDPE PIPE CONNECTION TO RCCP	D-9.54
Approved	Approved: <i>Dorcas & Smith</i> Chief, Bureau of Engineering	



Revised	Howard County, Maryland Department of Public Works	Detail
Revised	Pipe Trench Plastic & Copper	G-2.12
Approved	Approved: <i>Dorcas & Smith</i> Chief, Bureau of Engineering	



Revised	Howard County, Maryland Department of Public Works	Detail
Revised	Rock Outlet Protection III	G-2.12
Approved	Approved: <i>Dorcas & Smith</i> Chief, Bureau of Engineering	

APPROVED: DEPARTMENT OF PLANNING AND ZONING	5/31/2023
Chief, Development Engineering	Date
5/31/2023	5/31/2023
Chief, Division of Land Development	Date
6/4/2023	6/4/2023
Director	Date

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS	5/31/2023
DocuSigned by: Michael J. Davis	Date
County Health Officer	Date
Howard County Health Department	Date

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing Topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-09-0, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

Century ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 115, Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

SITE DETAILS 2
Chaberton Solar Catherine
14196 Frederick Road, Cookville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

Piero Mellits
REGISTERED PROFESSIONAL ENGINEER
No. 21875
4/5/2023

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. 21875
EXPIRATION DATE: 2/12/24

DRAWN BY: JLA
DESIGN BY: JLA
SCALE: AS SHOWN
PROJECT No.: 21104200

REVIEW BY: PVM
REVIEW DATE: 4/5/2023
DRAWING: 8 of 29
SDP-22-050



EXISTING LEGEND

- Site Property Boundary
- - - Existing Minor Contour
- Existing Major Contour
- - - Existing Stream
- - - Existing Stream Buffer
- - - Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing BGE Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Existing Drainage Divide
- Time of Concentration Path

EXISTING SITE DRAINAGE TO POI #1
 DRAINAGE AREA = 16.4 AC ±
 IMPERVIOUS AREA = 1.75 AC ±
 Tc=0.520 Hrs.
 CN=12
 Q₀ = 11.65 CFS
 (DATA OBTAINED FROM TR-55)

EXISTING SITE DRAINAGE TO POI #2 (SWMP #1 POND)
 DRAINAGE AREA = 33.5 AC ±
 IMPERVIOUS AREA = 3.5 AC ±
 Tc=0.325 Hrs.
 CN=67
 Q₀ = 39.59 CFS
 Q₁₀₀ = 109.59 CFS
 (DATA OBTAINED FROM TR-55)

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

- EX. CONDITION NOTES:**
- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Pennoni.
 - Forest stand treeline field located by Century Engineering in November, 2021.
 - Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 110, Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

EXISTING DRAINAGE AREA MAP
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

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.: 21875
 EXPIRATION DATE: 2/12/24

APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 KEMATTA STREET, SUITE 200
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5198
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21123
 PHONE: (410) 910-9220
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 16901 MELFORD BLVD, SUITE 124
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

DATE 5/31/2023
BY JLA
REVISIONS

DRAWN BY: JLA
DESIGN BY: JLA
SCALE: AS SHOWN
PROJECT No.: 211092.00

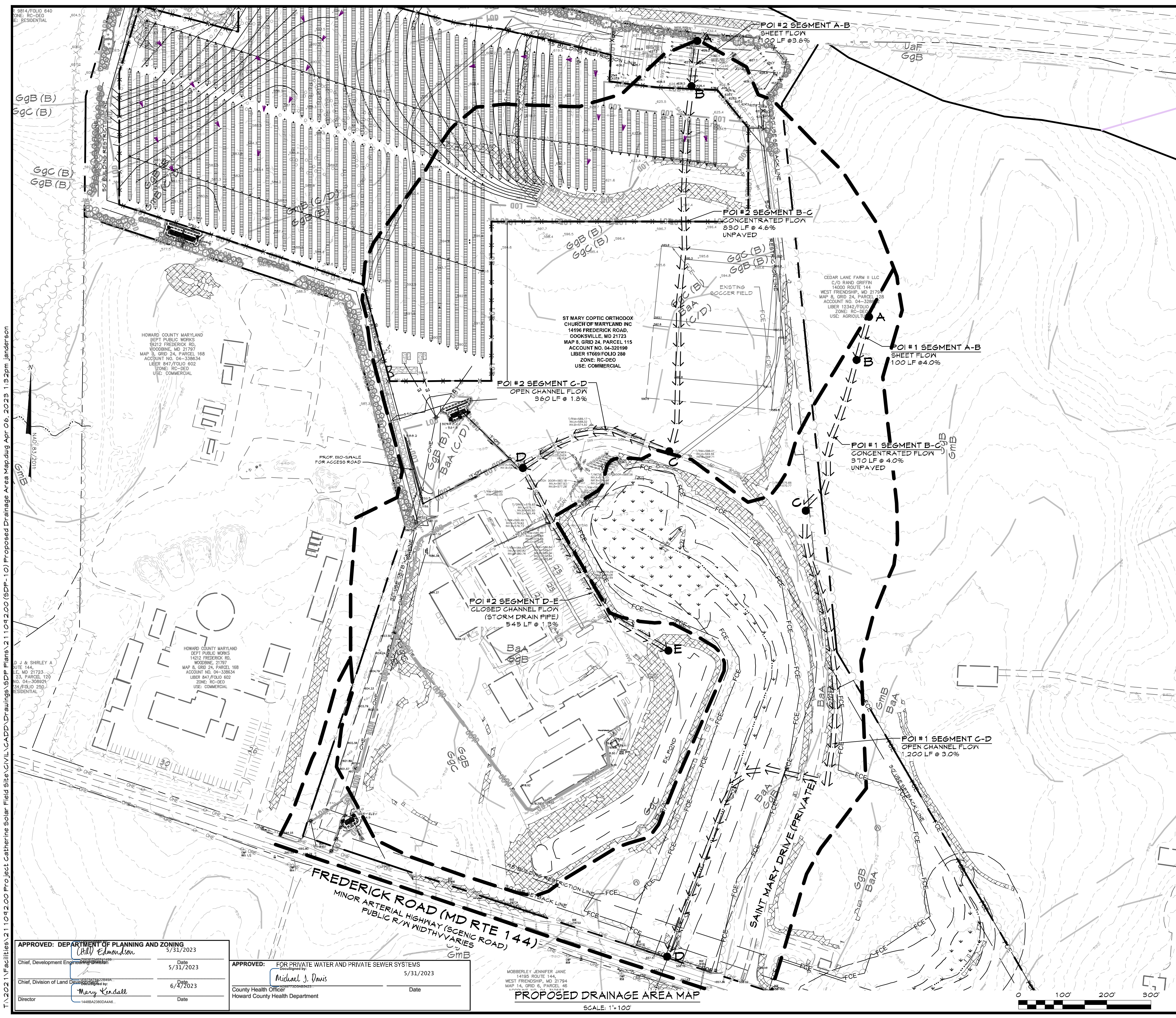
REVIEW BY: PVM
REVIEW DATE: 4/5/2023
DRAWING: 9 of 29
SDP-22-050

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Date: 5/31/2023
 Chief, Development Engineering
 Date: 5/31/2023
 Chief, Division of Land Development
 Date: 6/7/2023
 Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 Date: 5/31/2023
 Michael J. Davis
 County Health Officer
 Howard County Health Department

EXISTING DRAINAGE AREA MAP
 SCALE: 1"=100'
 MORRIS JENNIFER JANE
 14195 ROUTE 144,
 WEST FRIENDSHIP, MD 21794
 MAP 14, GRID 6, PARCEL 46

T:\2021\Facilities\211092.00\Project_Catherine Solar\Drawings\SDP Plans\211092.00 (SDP-09) Existing Drainage Area Map.dwg Apr 06, 2023 1:19 pm Janderson



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing BGE Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Proposed Drainage Divide
- Time of Concentration Path

PROPOSED SITE DRAINAGE TO POI #1 (NO CHANGE)
 DRAINAGE AREA = 16.4 Ac.
 IMPERVIOUS AREA = 1.75 Ac.
 Tc = 0.520 Hrs.
 CN = 72
 Q₁₀ = 17.65 CFS
 (DATA OBTAINED FROM TR-55)

PROPOSED SITE DRAINAGE TO POI #2 (SWMF #1 POND)
 DRAINAGE AREA = 33.7 Ac.
 IMPERVIOUS AREA = 3.7 Ac.
 Tc = 0.325 Hrs.
 CN = 67
 Q₁₀ = 39.75 CFS
 Q₁₀₀ = 110.03 CFS
 (DATA OBTAINED FROM TR-55)

PROPOSED SITE DRAINAGE TO POI #2 (SWMF #1 POND)
 (ADJUSTED FOR STORMWATER MANAGEMENT PRACTICES)
 DRAINAGE AREA = 33.7 Ac.
 IMPERVIOUS AREA = 3.7 Ac.
 Tc = 0.325 Hrs.
 CN = 64
 Q₁₀ = 33.68 CFS
 Q₁₀₀ = 100.59 CFS
 (DATA OBTAINED FROM TR-55)

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

- EX. CONDITION NOTES:**
- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-09-0, provided by Pennoni.
 - Forest stand treeline field located by Century Engineering in November, 2021.
 - Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120, Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

PROPOSED DRAINAGE AREA MAP
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

Piero Mellits
 APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR GATHERINE ANEN LLC
 CHABERTON SOLAR BTM LLC
 1601 KEMATTA STREET, SUITE 700
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5198
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX
 CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21123
 PHONE: (410) 910-9220
 ENGINEER:
 CENTURY ENGINEERING LLC
 16901 MELFORD BLVD, SUITE 124
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

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.: 21875
 EXPIRATION DATE: 2/12/24

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER
 PIERO VAN MELLITS No. 21875
 4/5/2023

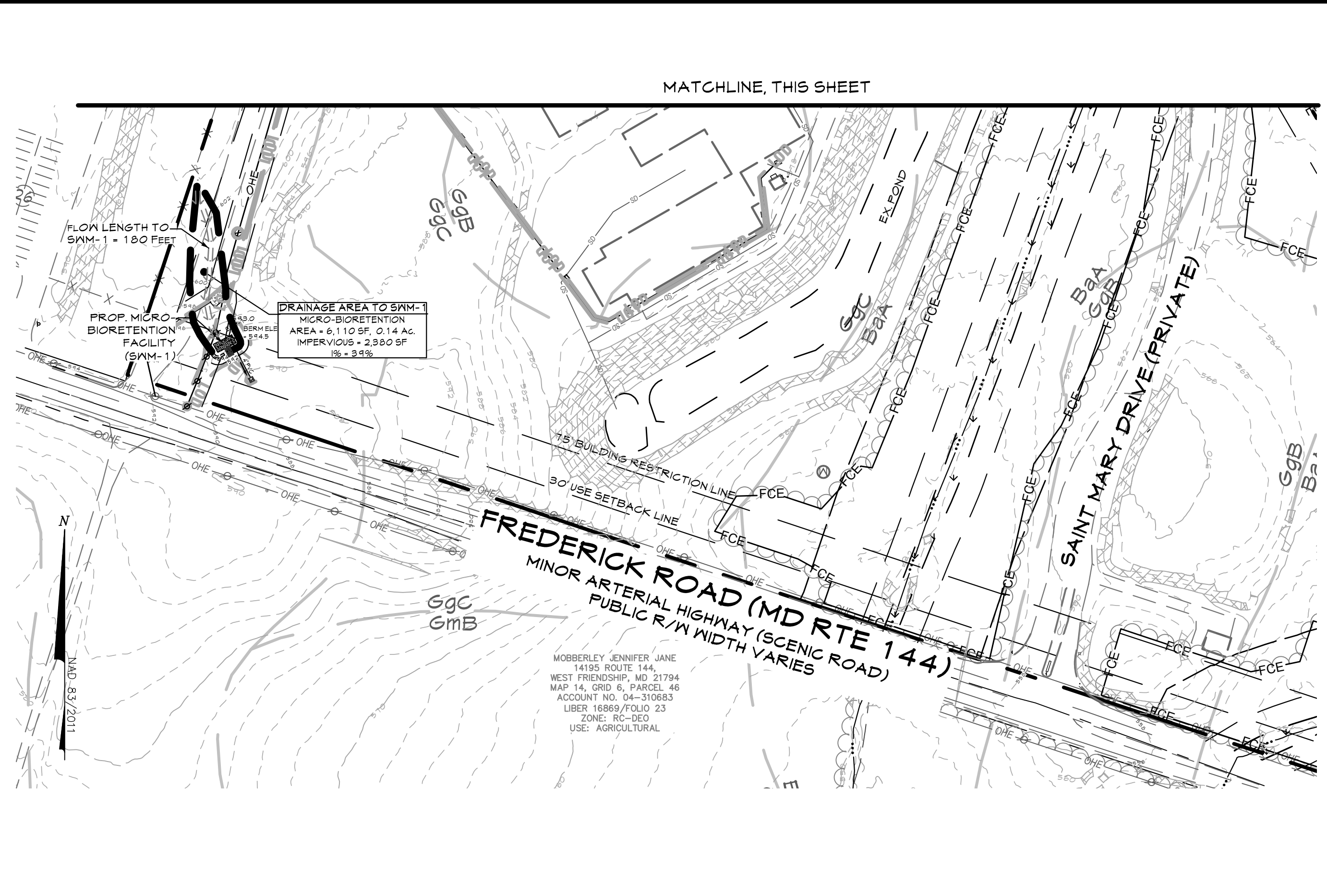
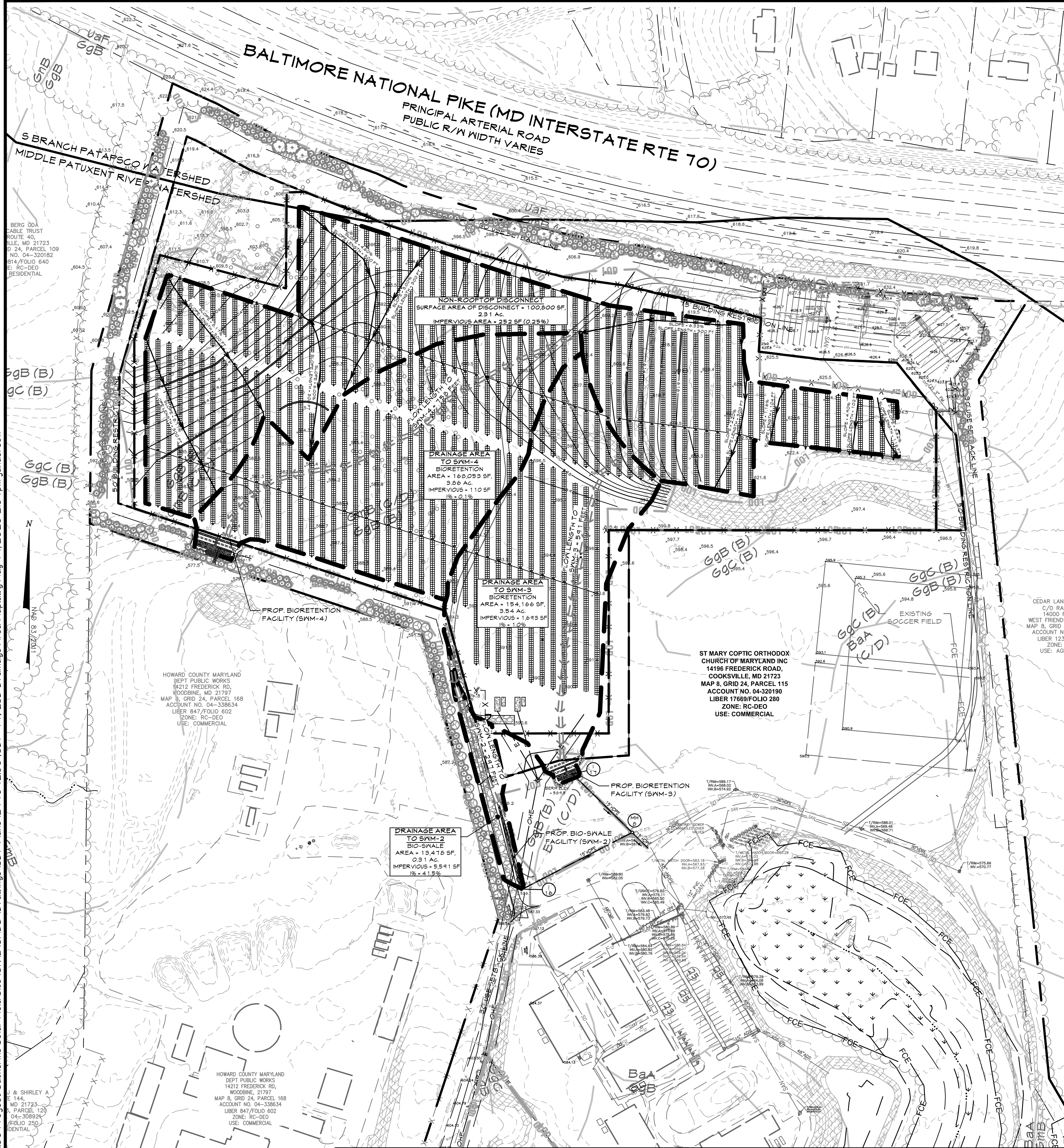
DRAWN BY: JLA REVIEW BY: PVM
 DESIGN BY: JLA REVIEW DATE: 4/5/2023
 SCALE: AS SHOWN DRAWING: 10 of 29
 PROJECT No.: 211092.00

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Date: 5/31/2023
 Chief, Development Engineering
 Date: 5/31/2023
 Chief, Division of Land Development
 Date: 6/7/2023
 Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 Date: 5/31/2023
 County Health Officer
 Date: 5/31/2023
 Howard County Health Department

PROPOSED DRAINAGE AREA MAP
 SCALE: 1"=100'
 MOBBERLEY, JENNIFER JANE
 14195 ROUTE 144,
 WEST FRIENDSHIP, MD 21794
 MAP 14, GRID 6, PARCEL 46

T:\2021\Facilities\211092.00 Project, Catherine Solar, Field Site\CADD Drawings\SDP Plans\211092.00 (SDP - 10) Proposed Drainage Area Map.dwg Apr 06, 2023 1:19:24pm Janderson



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing BGE Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well

PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Powercon Switchgear
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility & Berm
- Proposed Drainage Divide
- Time of Concentration Path
- Proposed Level Spreader
- SWM Drainage Area Flow Path

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.

Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

ESDv Summary Table

	Impervious Area (s.f.)	Pe (inches)	ESDv (cu.ft.)
Required	8,597	1.00	3,879
Provided	10,026	1.80	3,917

Project Catherine ESD BMP Summary Table

Facility type	Facility Number	Area (s.f.)	Impervious Area (s.f.)	Pe Treated (inches)	ESDv Treated (cu.ft.)
M-6 Micro Bioretention	SWM #1	6,110	2,380	2.5	518
M-8 Bio-Swale	SWM #2	13,478	5,591	1.9	900
F-6 Bioretention	SWM #3	154,166	1,693	1.4	1,050
F-6 Bioretention	SWM #4	168,053	110	2.0	1,430
Non-Rooftop Disconnect (Solar)		252	252	1.0	20
Total		342,059	10,026	1.80	3,917

APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR GATHERINE ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 KEMATTA STREET, SUITE 700
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5198
 EMAIL: afarrington@pivotenergy.net

CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21723
 PHONE: (410) 910-9220

ENGINEER:
 CENTURY ENGINEERING LLC
 16901 MELFORD BLVD., SUITE 129
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 581-2400
 EMAIL: pmellits@kleinfelder.com

DATE	BY	REVISIONS



A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

STORMWATER MANAGEMENT DRAINAGE AREA MAP
Chaberton Solar Catherine

14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

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. 21875
 EXPIRATION DATE: 2/12/24

5/19/2023

DRAWN BY: JLA
 DESIGN BY: JLA

REVIEW BY: PYM
 REVIEW DATE: 5/19/2023

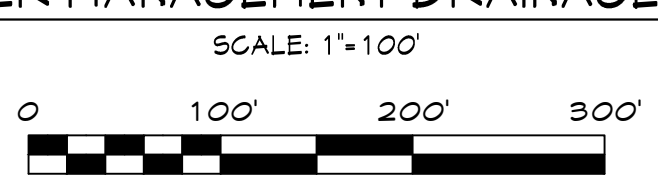
SCALE: AS SHOWN
 PROJECT No.: 211092.00

DRAWING: 11 of 29
 SDP-22-050

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Date: 5/31/2023
 Chief, Development Engineering
 Date: 5/31/2023
 Chief, Division of Land Development
 Date: 6/4/2023
 Director

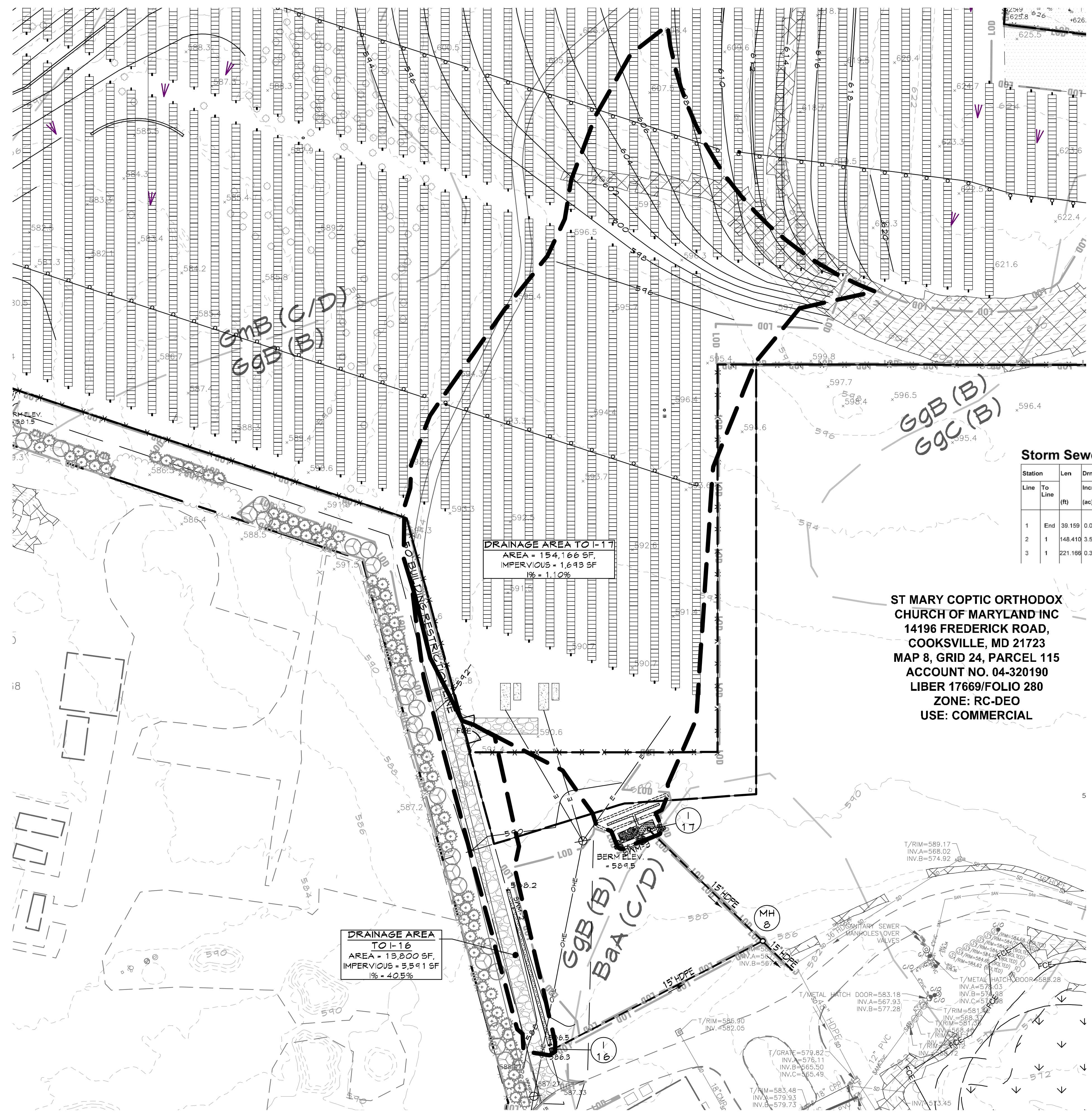
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 Documented by: Michael J. Davis
 Date: 5/31/2023
 County Health Officer
 Howard County Health Department

STORMWATER MANAGEMENT DRAINAGE AREA MAP



T:\2021\Facilities\211092.00 Project Catherine Solar Field Site\CADD Drawings\SDP Plans\211092.00 (SDP-11) ESD Drainage Area Map.dwg May 19, 2023 2:51 pm janderson

T:\2021\Facilities\21104200 Project Catherine Solar\CADD\Drawings\SDP Plans\21104200 (SDP-12) Storm Drain Drainage Area Map.dwg Apr 06, 2023 1:39pm Janderson



EXISTING LEGEND

- Site Property Boundary
- - - Existing Minor Contour
- - - Existing Major Contour
- - - Existing Stream
- - - Existing Stream Buffer
- - - FCE Forest Conservation Easement
- - - Existing Wetlands
- - - Existing Wetlands Buffer
- - - Existing Tree Line
- - - Existing Drive
- - - Existing Building
- - - Existing Overhead Electric
- - - E Existing Buried Electric
- - - BGE#42497 Existing B&E Utility Pole
- - - X - X - X Existing Fence Line
- - - Av Soil Line
- - - SAN Existing Sanitary Sewer
- - - SD Existing Storm Drain
- - - W Existing Well

PROPOSED LEGEND

- - - Conditional Use (CU) Area
- - - Proposed Powercon Switchgear
- - - LOD Proposed Limit of Disturbance
- - - 660 Proposed Grades
- - - 650 Proposed Overhead Electric
- - - OHE Proposed Underground Electric
- - - E Proposed Utility Pole
- - - Proposed Solar Panels
- - - X - X - X Proposed Fence
- - - Proposed Concrete Pad
- - - Proposed Gravel Drive
- - - Proposed Stormwater Management Facility & Berm
- - - Proposed Drainage Divide
- - - Proposed Level Spreader

Storm Sewer Tabulation

Station	Len	Drng Area	Rnoff	Area x C	Tc	Rain	Total	Cap	Vel	Pipe	Invert Elev	HGL Elev		Grnd / Rim Elev		Line ID						
												Incr	Total	Dn	Up		Dn	Up				
Line	To Line	(ft)	(ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(ft/s)	(in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)					
1	End	39.159	0.00	3.86	0.00	0.00	1.08	0.0	15.6	5.3	5.75	10.77	5.16	15	1.99	575.71	576.49	576.96	577.46	582.80	586.00	I-8 to MH-8
2	1	148.410	3.54	3.54	0.26	0.92	0.92	15.0	15.0	5.4	4.98	10.67	5.35	15	1.95	578.59	579.49	577.46	580.39	586.00	589.00	MH-8 to I-17
3	1	221.186	0.32	0.32	0.51	0.16	0.16	10.0	10.0	6.5	1.07	10.70	2.22	15	1.97	576.89	581.04	577.46	581.45	586.00	588.30	MH-8 to I-16

ST MARY COPTIC ORTHODOX CHURCH OF MARYLAND INC
 14196 FREDERICK ROAD,
 COOKSVILLE, MD 21723
 MAP 8, GRID 24, PARCEL 115
 ACCOUNT NO. 04-320190
 LIBER 17669/FOLIO 280
 ZONE: RC-DEO
 USE: COMMERCIAL

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

STORM DRAIN DRAINAGE AREA MAP
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

Piero Mellits
 APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR GATHERINE ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 KEMATTA STREET, SUITE 200
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5198
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21723
 PHONE: (410) 910-9200
 ENGINEER:
 CENTURY ENGINEERING LLC
 16901 MELFORD BLVD, SUITE 124
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

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: 21819
 EXPIRATION DATE: 2/12/24

DRAWN BY: JLA
 DESIGN BY: JLA
 SCALE: AS SHOWN
 PROJECT No.: 21104200

REVIEW BY: PVM
 REVIEW DATE: 4/5/2023
 DRAWING: 12 of 29
 SDP-22-050

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering
 Date: 5/31/2023

Chief, Division of Land Development
 Date: 6/4/2023

Director
 Date:

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 Documented by: Michael J. Davis
 Date: 5/31/2023

County Health Officer
 Howard County Health Department
 Date:

STORM DRAIN DRAINAGE AREA MAP
 SCALE: 1"=50'
 0 50' 100' 150'

MATCHLINE-SEE SHEET 14

HOWARD COUNTY MARYLAND
DEPT PUBLIC WORKS
14212 FREDERICK RD,
WOODBINE, 21797
MAP 8, GRID 24, PARCEL 168
ACCOUNT NO. 04-338634
LIBER 847/FOLIO 602
ZONE: RC-DEO
USE: COMMERCIAL

CEDAF
C/14
WEST F
MAP 8,
ACCOL
LIBE
USI

EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing B&E Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Existing Steep Slope Areas

PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Power on Switchgear
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility
- Proposed Landscaping

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Date: 5/31/2023
 Chief, Development Engineering
 Date: 5/31/2023
 Chief, Division of Land Use
 Date: 6/4/2023
 Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 Documented by: Michael J. Davis
 Date: 5/31/2023
 County Health Officer
 Date: _____
 Howard County Health Department

STORMWATER MANAGEMENT PLAN 1

SCALE: 1"=50'

FREDERICK ROAD (MD RTE 144)
 MINOR ARTERIAL HIGHWAY (SCENIC ROAD)
 PUBLIC R/W WIDTH VARIES

MOBBERLEY JENNIFER JANE
 14195 ROUTE 144,
 WEST FRIENDSHIP, MD 21794
 MAP 14, GRID 6, PARCEL 46
 ACCOUNT NO. 04-310683
 LIBER 16869/FOLIO 23
 ZONE: RC-DEO

APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR GATHERNE ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 KEMATTA STREET, SUITE 200
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5119
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY CORTIC ORTHODOX
 CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21123
 PHONE: (410) 910-9220
 ENGINEER:
 CENTURY ENGINEERING LLC
 16901 MELFORD BLVD, SUITE 124
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

- DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88
- EX. CONDITION NOTES:
- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
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 - Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

STORMWATER MANAGEMENT PLAN 1
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

PROFESSIONAL CERTIFICATION
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 LICENSE NO.: 21875
 EXPIRATION DATE: 2/12/24

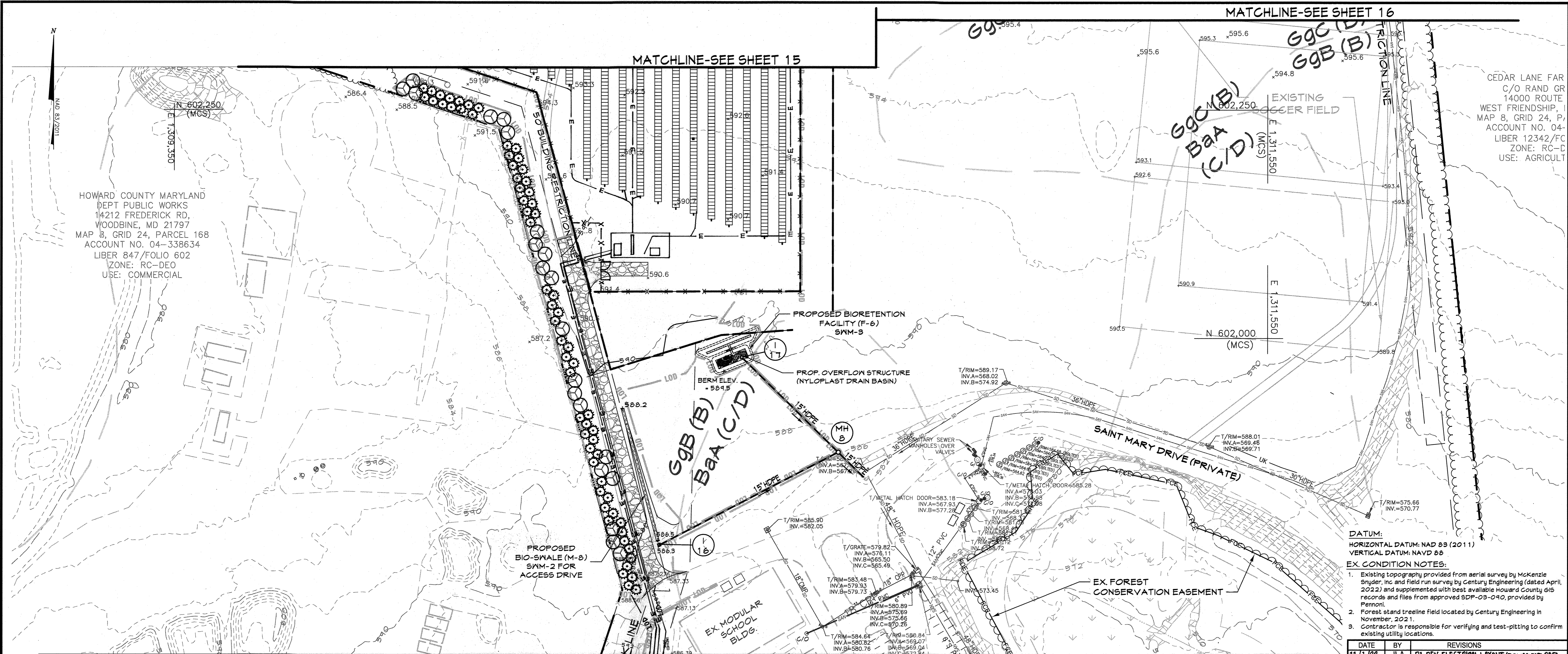
DRAWN BY: JLA
 DESIGN BY: JLA
 SCALE: AS SHOWN
 PROJECT No.: 21109200

REVIEW BY: PVM
 REVIEW DATE: 4/5/2023
 DRAWING: 13 of 29
 SDP-22-050



T:\2021\Facilities\21104200 Project Catherine Solar Field Site\CADD Drawings\SDP Plans\21109200 (SDP-13-16) Stormwater Management Plan.dwg Apr-06-2023 1:33pm Janderson

T:\2022\TFacilities\21109200 Project Catherine Solar Field Site\CIVIL\CADD\Drawings\SDP Plans\21109200 (SDP-13-16) Stormwater Management Planning Apr 06, 2023 1:39pm janderson



PROPOSED LEGEND

EXISTING LEGEND

STORMWATER MANAGEMENT PLAN 2

SCALE: 1"=50'



APPROVED: DEPARTMENT OF PLANNING AND ZONING
5/31/2023
Chief, Development Engineering
Date 5/31/2023
Chief, Division of Land Development
Date 6/4/2023
Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
5/31/2023
Michael J. Davis
County Health Officer
Howard County Health Department
Date

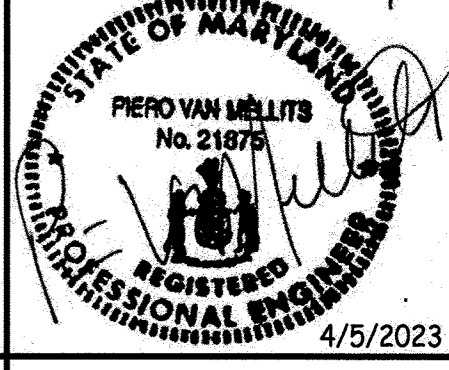
APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR ANEN LLC
CHABERTON SOLAR BTM LLC
1601 NEKATTA STREET, SUITE 100
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 594-5148
EMAIL: afarrington@pivotenergy.net
CURRENT OWNER:
ST. MARY COPTIC ORTHODOX
CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD,
COOKSVILLE, MD 21128
PHONE: (410) 910-9220
ENGINEER:
CENTURY ENGINEERING LLC
16401 MELFORD BLVD, SUITE 124
BOWIE, MD 20715
ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 584-2400
EMAIL: pmellits@kleinfelder.com

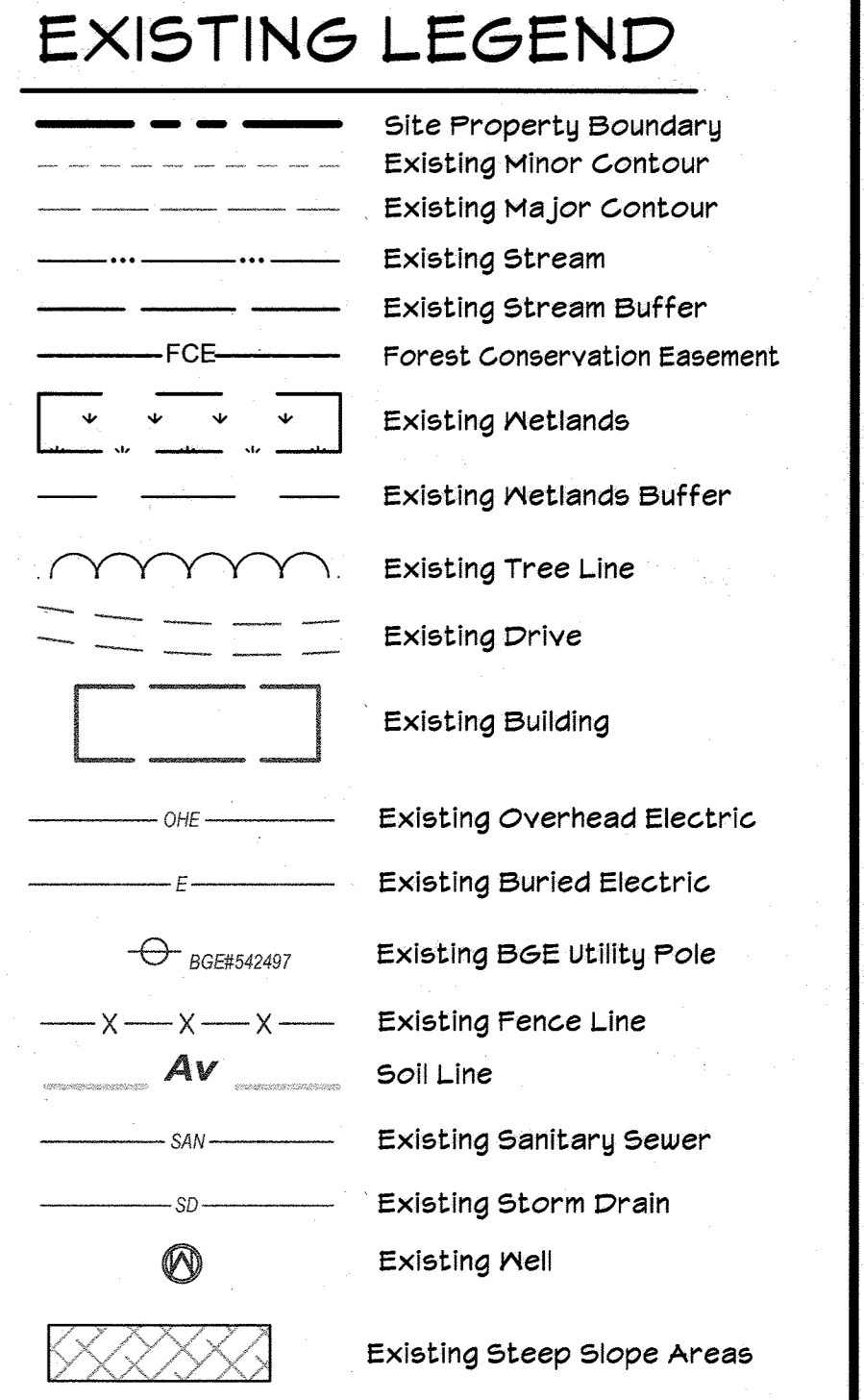
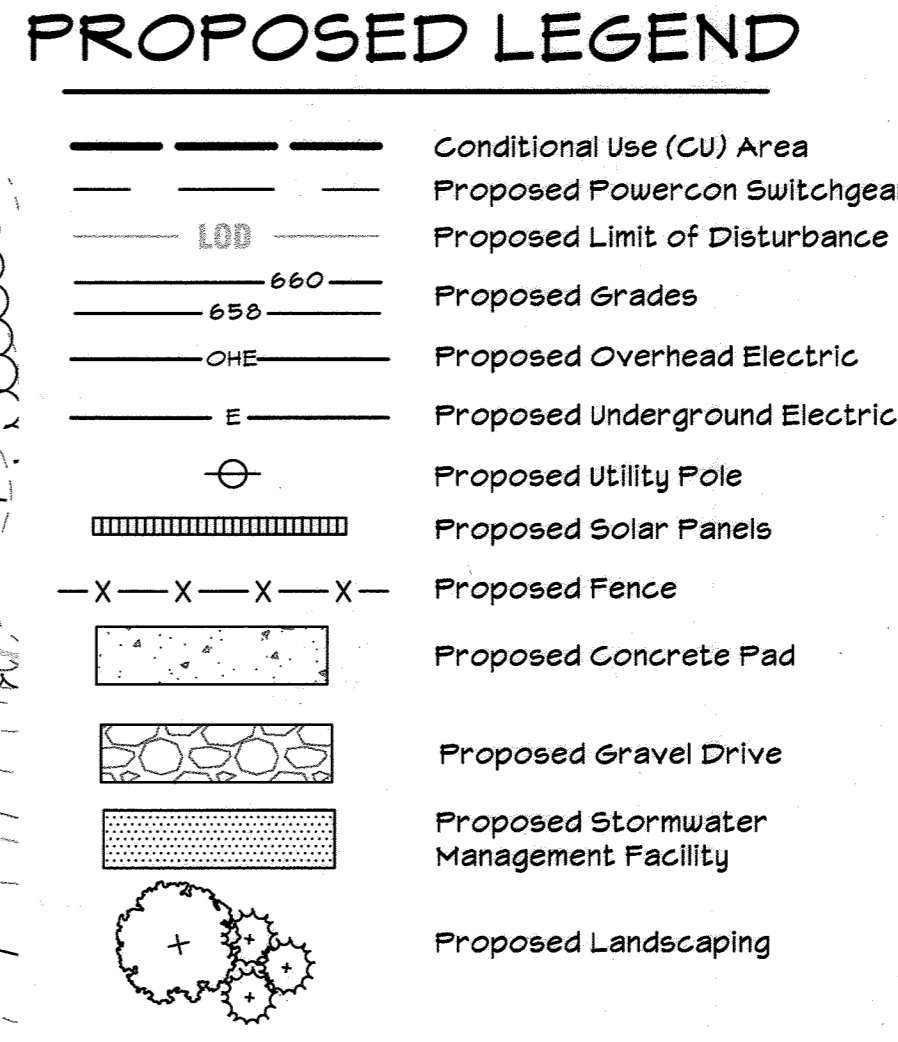
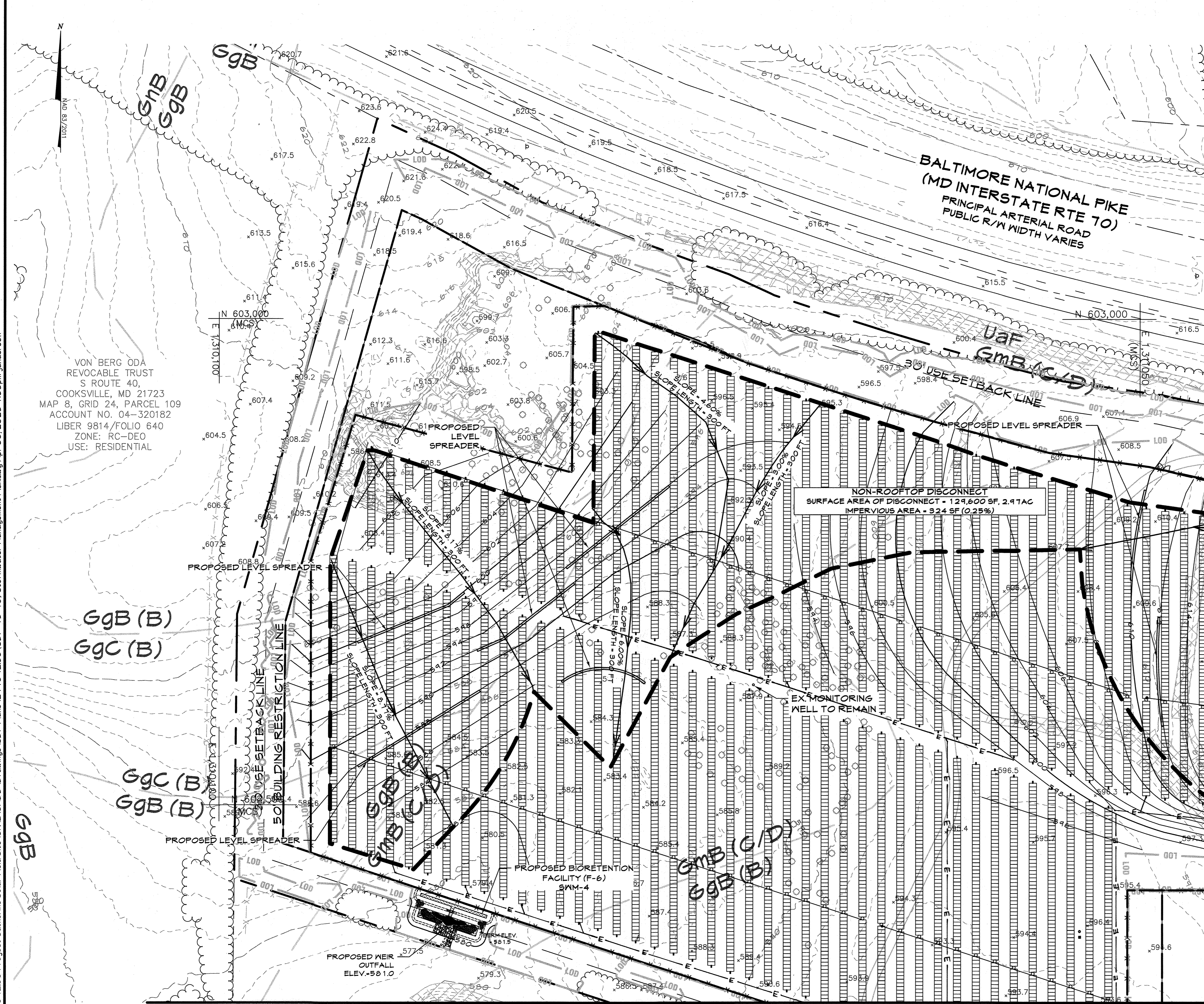
DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT/EQUIPMENT PAD

CENTURY ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

STORMWATER MANAGEMENT PLAN 2
Chaberton Solar Catherine
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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LICENSE No: 21815
EXPIRATION DATE: 2/12/24
4/5/2023
DRAWN BY: JLA
DESIGN BY: JLA
REVIEW BY: PVM
REVIEW DATE: 4/5/2023
SCALE: AS SHOWN
DRAWING: 14 of 29
PROJECT No.: 21109200
SDP-22-050





VON BERG ODA REVOCABLE TRUST
 S ROUTE 40,
 COOKSVILLE, MD 21723
 MAP 8, GRID 24, PARCEL 109
 ACCOUNT NO. 04-320182
 LIBER 9814/FOLIO 640
 ZONE: RC-DEO
 USE: RESIDENTIAL

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing Topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Penomil.
- Forest stand tree line field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT (EQUIPMENT PAD)

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

STORMWATER MANAGEMENT PLAN 3
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

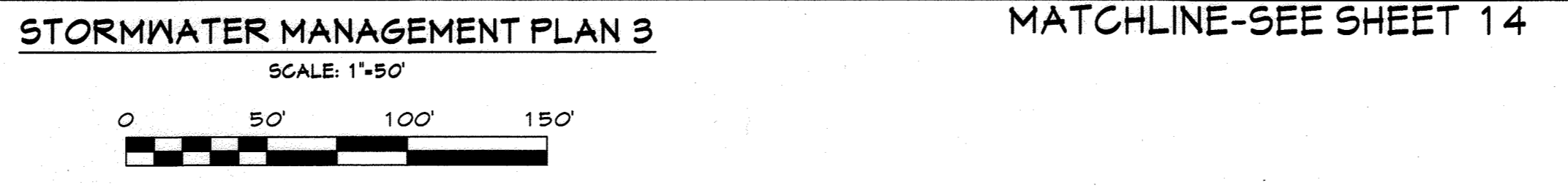
Piero Mellits
 APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 WENATTA STREET, SUITE 700
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5148
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX
 CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD,
 COOKSVILLE, MD 21723
 PHONE: (410) 410-3220
 ENGINEER:
 CENTURY ENGINEERING LLC
 16901 MELFORD BLVD, SUITE 129
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

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.: 21875
 EXPIRATION DATE: 2/12/24

PROFESSIONAL ENGINEER

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 5/31/2023
 Chief, Development Engineering
 Date: 5/31/2023
 Chief, Division of Land Development
 Date: 6/4/2023
 Director

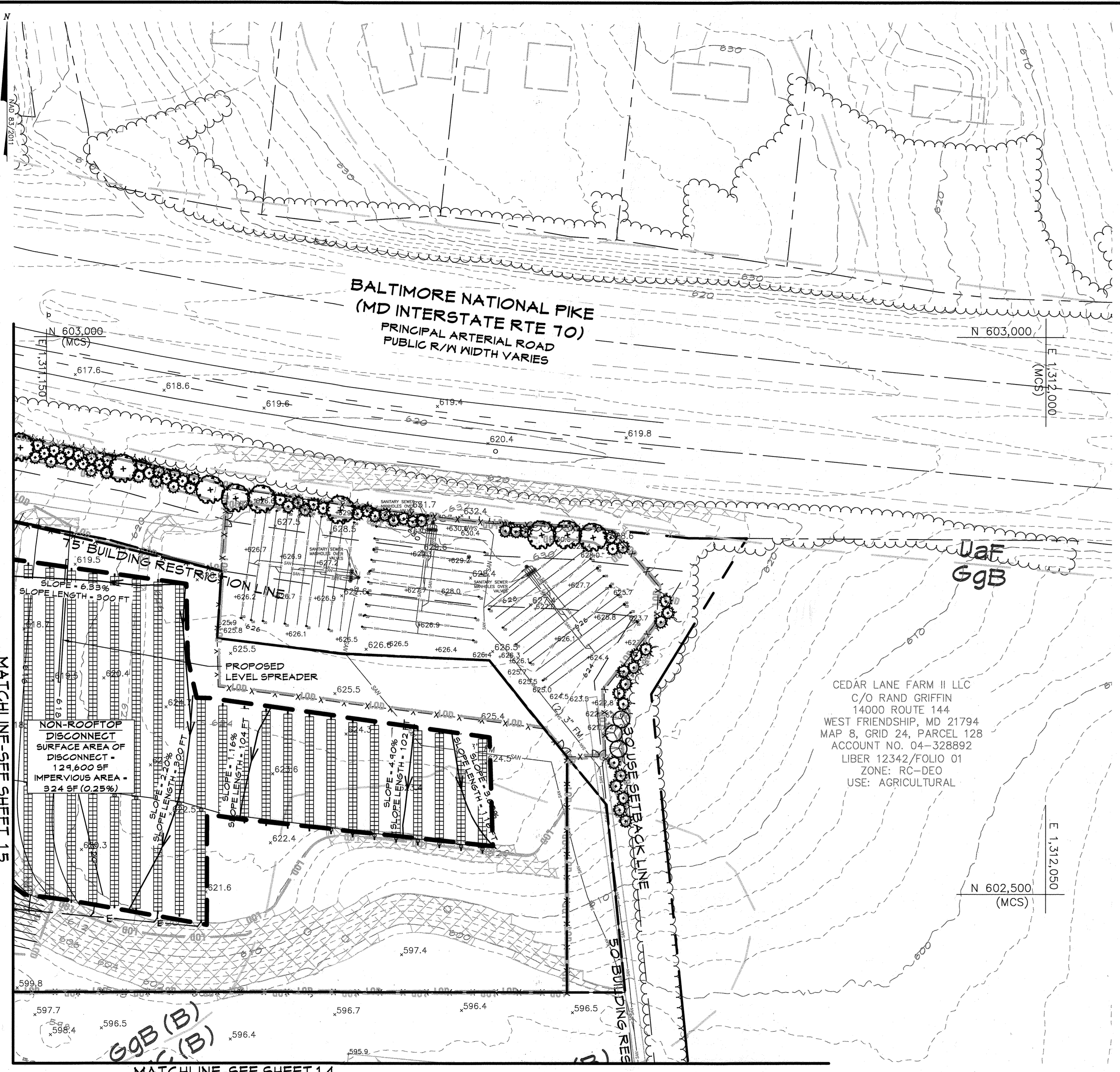
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 5/31/2023
 Michael J. Davis
 County Health Officer
 Howard County Health Department



MATCHLINE-SEE SHEET 16

MATCHLINE-SEE SHEET 14

T:\2021\Facilities\21109200 Project Catherine Solar Field Site\CIVIL\CADD Drawings\SDP Plans\21109200 (SDP-13-16) Stormwater Management Plan.dwg May 11, 2023 2:54:42pm janderson



PROPOSED LEGEND		EXISTING LEGEND	
	Conditional Use (CU) Area		Site Property Boundary
	Proposed Powercon Switchgear		Existing Minor Contour
	Proposed Limit of Disturbance		Existing Major Contour
	Proposed Grades		Existing Stream
	Proposed Overhead Electric		Existing Stream Buffer
	Proposed Underground Electric		FCE
	Proposed Utility Pole		Forest Conservation Easement
	Proposed Solar Panels		Existing Wetlands
	Proposed Fence		Existing Wetlands Buffer
	Proposed Concrete Pad		Existing Tree Line
	Proposed Gravel Drive		Existing Drive
	Proposed Stormwater Management Facility		Existing Building
	Proposed Landscaping		Existing Overhead Electric
			Existing Buried Electric
			Existing BGE Utility Pole
			Existing Fence Line
			Soil Line
			Existing Sanitary Sewer
			Existing Storm Drain
			Existing Well
			Existing Steep Slope Areas

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 83

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Femont.
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DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT/EQUIPMENT PAD

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STORMWATER MANAGEMENT PLAN 4
Chaberton Solar Catherine
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Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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EMAIL: pmellits@kleinfelder.com

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Piero Van Mellits
No. 21878
REGISTERED PROFESSIONAL ENGINEER

LICENSE No. 21878
EXPIRATION DATE: 2/12/24

5/19/2023

DRAWN BY: JLA REVIEW BY: PVM
DESIGN BY: JLA REVIEW DATE: 5/14/2023

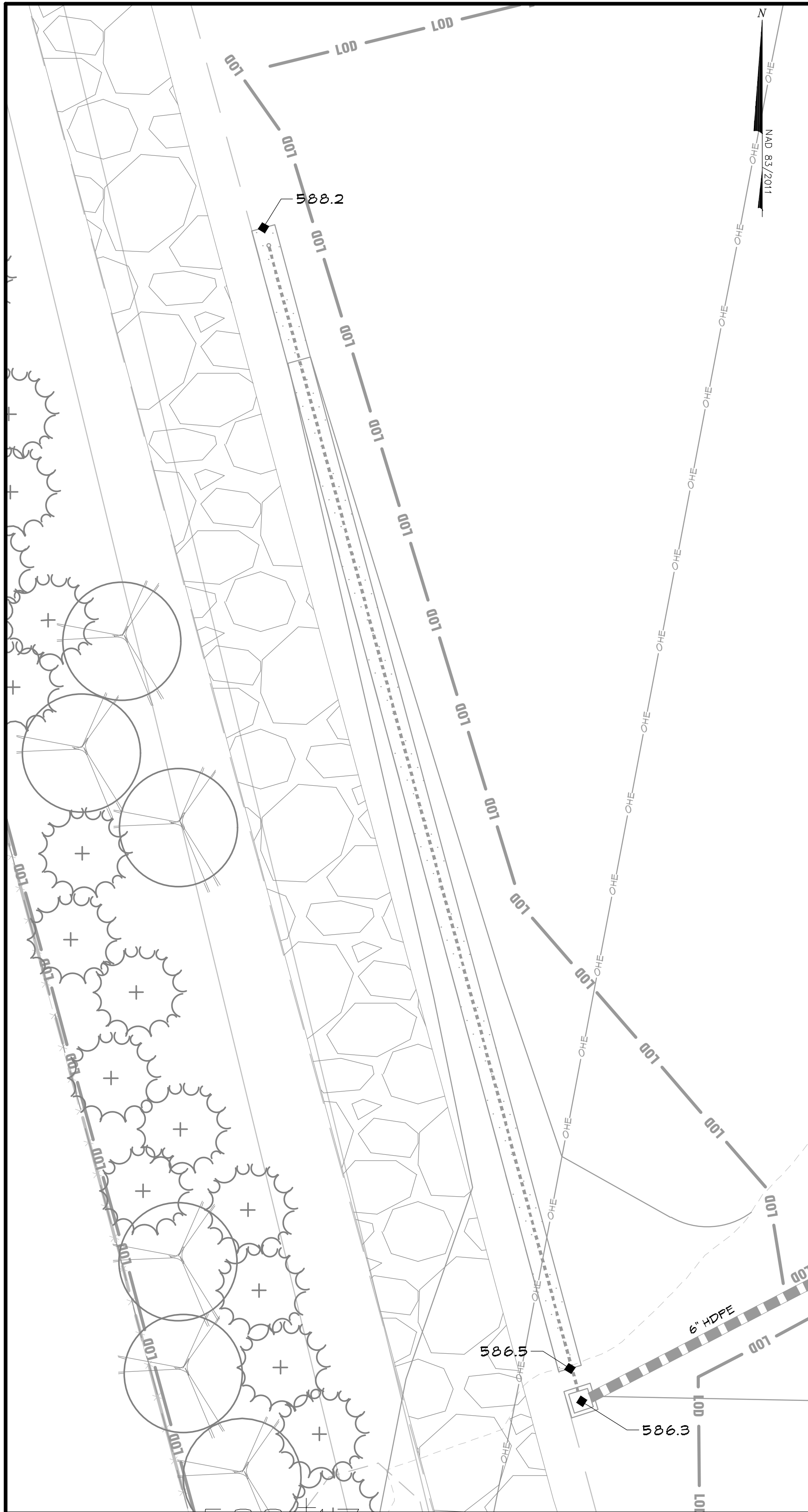
SCALE: AS SHOWN DRAWING: 16 of 29
PROJECT No.: 21109200

STORMWATER MANAGEMENT PLAN 4
SCALE: 1"=50'
0' 50' 100' 150'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
5/31/2023
Chief, Development Engineering
Date: 5/31/2023
Chief, Division of Land Development
Date: 6/4/2023

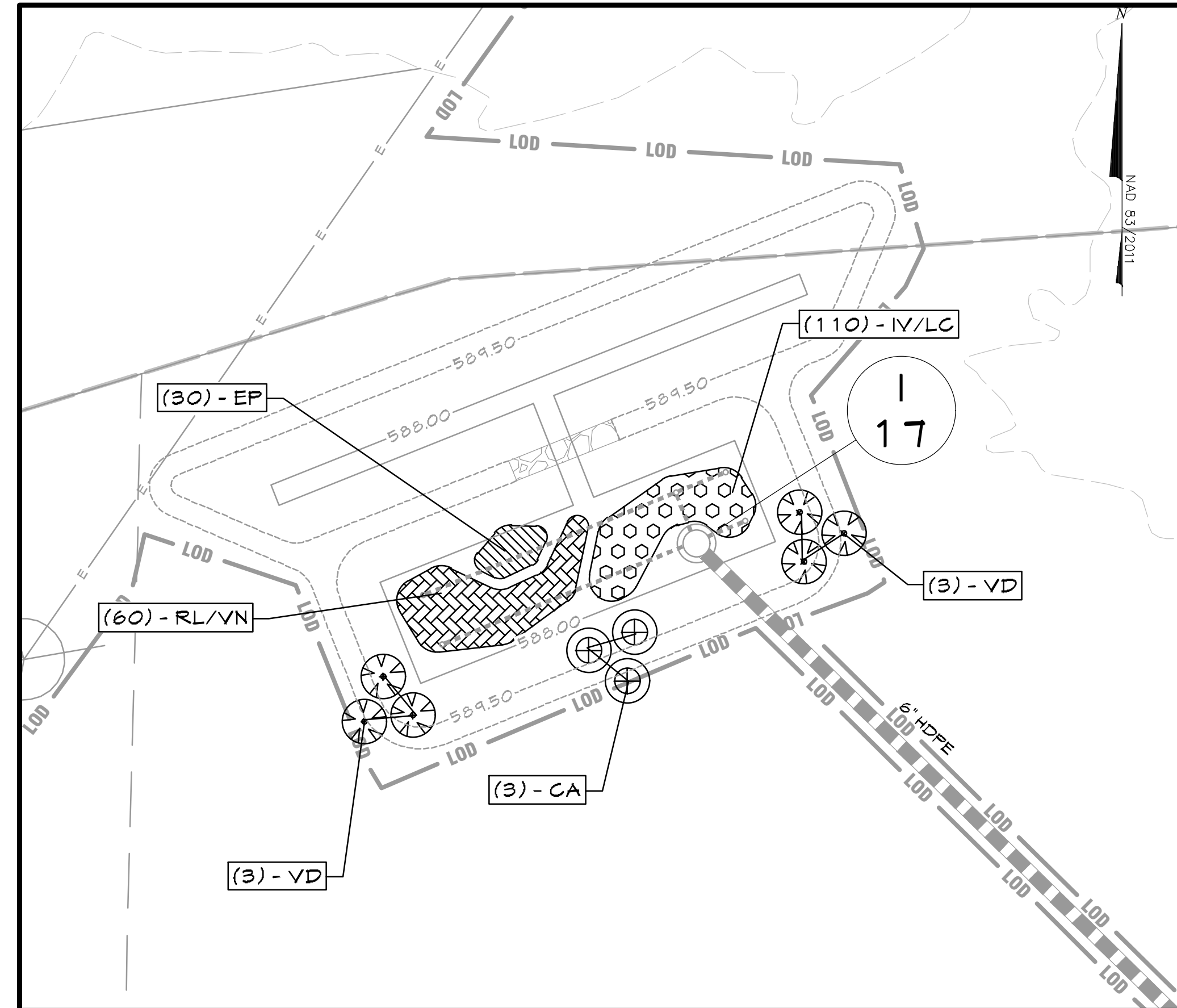
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
5/31/2023
Michael J. Davis
County Health Officer
Howard County Health Department
Date

T:\2021\Facilities\21104200 Project Catherine Solar Field Site\CADD\Drawings\SDP Plans\21104200 (SDP-17) SWM Planting Plan.dwg Apr 06, 2023 1:34pm [anderson]

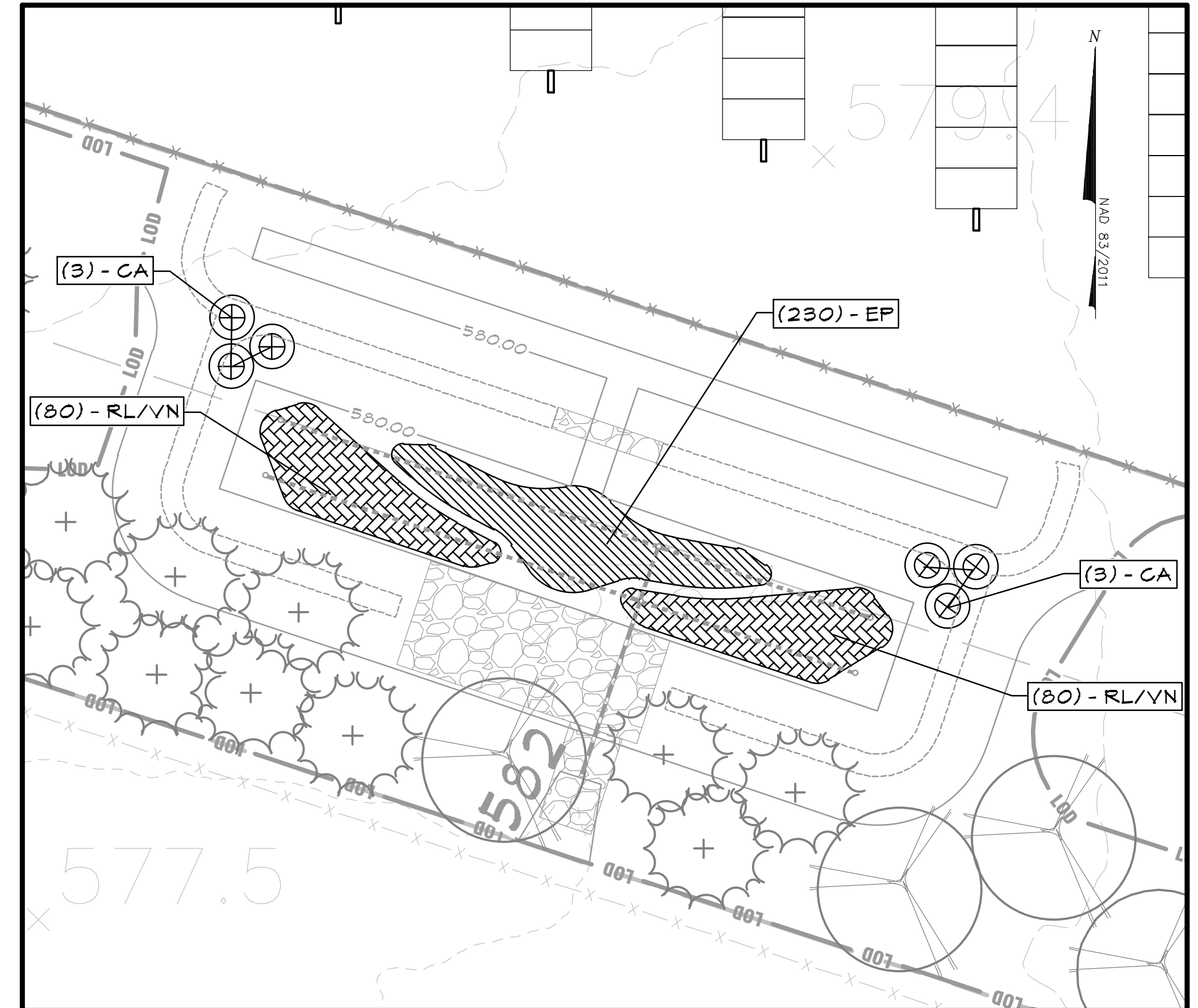


NOTE: SEE SEDIMENT CONTROL PLANS FOR PLANTING REQUIREMENTS OF BIO-SWALE

SWM-2 (BIO-SWALE)
SCALE: 1"=10'



SWM-3 (BIORETENTION)
SCALE: 1"=10'



SWM-4 (BIORETENTION)
SCALE: 1"=10'

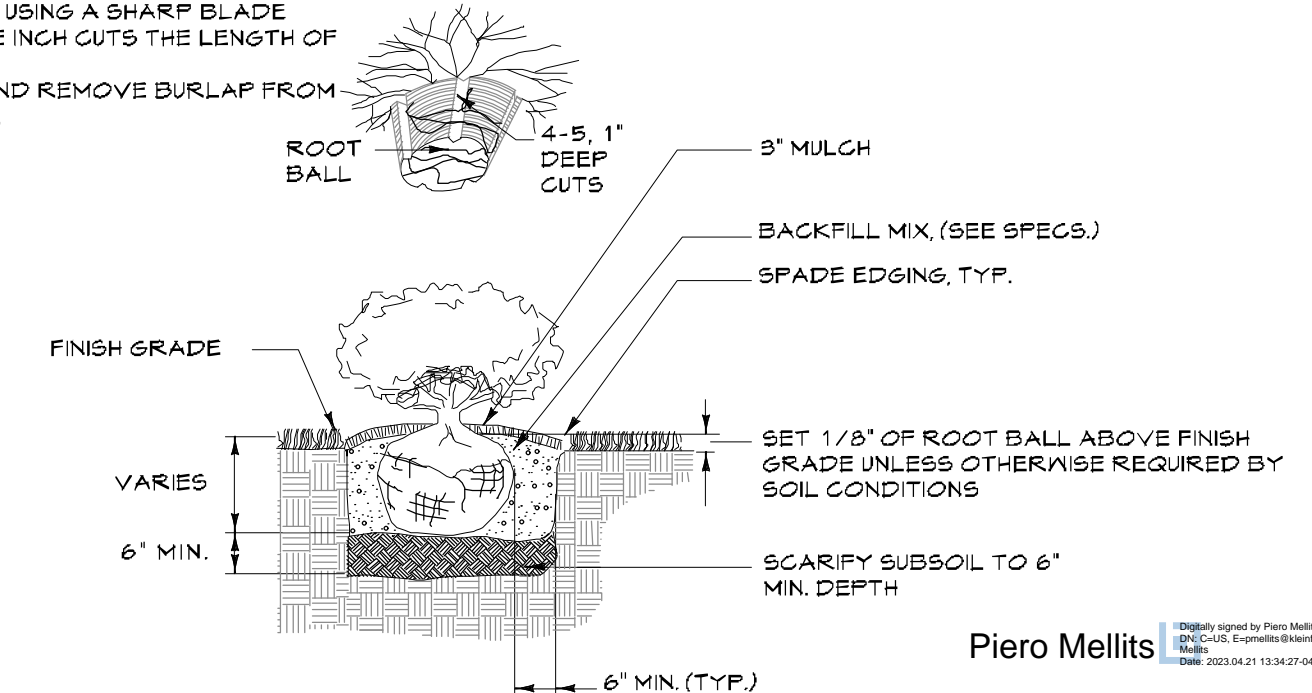
NOTE: SEE LANDSCAPE PLAN FOR BUFFER PLANTINGS, DETAILS AND SPECIFICATIONS

SWM FACILITIES- PLANTING SCHEDULE

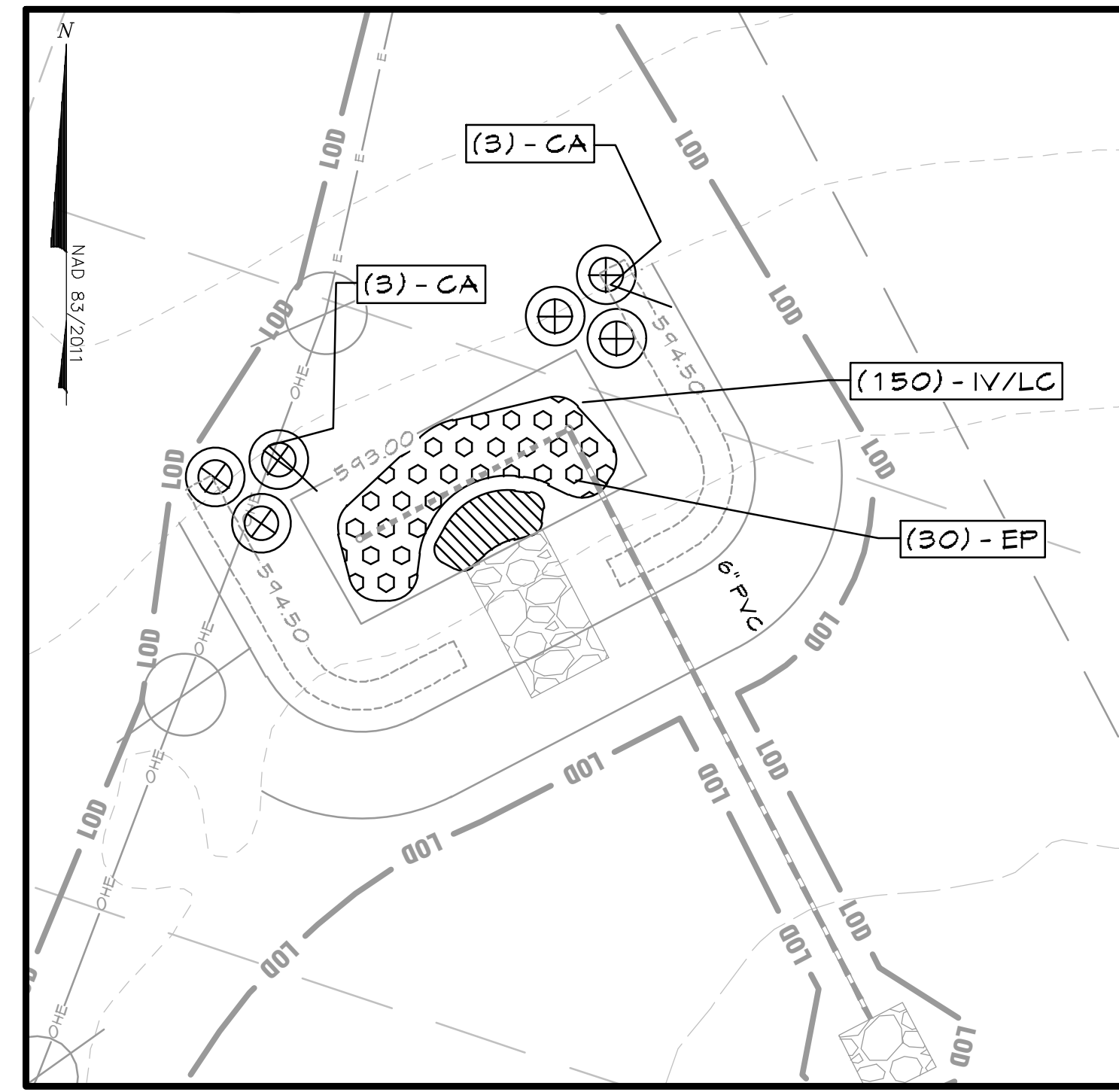
SYMBOL	ABV.	QUANTITY	NAME	COMMON NAME	SIZE	CONDITION
SHRUBS						
⊗	VD	6	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	#5 CONTAINER	8' SPACING
⊕	CA	15	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	#3 CONTAINER	6' SPACING
GRASSES/PERENNIALS						
⊗	IV/LG	260	IRIS VERSICOLOR & LOBELIA CARDINALIS	*NORTHERN BLUE FLAG IRIS & CARDINAL FLOWER	4" POT	12" SPACING
⊕	RL/VN	220	RUDEBECKIA LAGINIATA & SOLIDAGO AUSTRINA	*GUT-LEAF CONEFLOWER & GOLDEN ROD	4" POT	18" SPACING
⊗	EP	240	EUTROCHUM PURPUREUM	JOE PYE WEED	4" POT	12" SPACING

*AREAS SHALL BE EVENLY INTERMIXED WITH PLANTINGS

- NOTES:
- FOR CONTAINER SHRUBS, COMPLETELY REMOVE ALL NON-BIODEGRADABLE CONTAINERS AND SCARIFY ROOTBALL BY USING A SHARP BLADE AND MAKING 4 TO 5 ONE INCH CUTS THE LENGTH OF THE ROOTBALL.
 - FOR B&B SHRUBS, CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.



SHRUB PLANTING
Not To Scale



SWM-1 (MICRO-BIORETENTION)
SCALE: 1"=10'

PLANT CENTER

SPACING "D"	ROW "A"	PLANTS PER 10 SQFT.
8" O.C.	6.93'	26
12" O.C.	10.4"	11.5
18" O.C.	15.6"	5.12
24" O.C.	11.3"	2.42
30" O.C.	20.8"	2.4
30" O.C.	30.0"	1.28

NOTE: SEE PLANTING SCHEDULE FOR QUANTITY AND SPACING
GRASS & PERENNIAL PLANTING DETAIL
Not To Scale

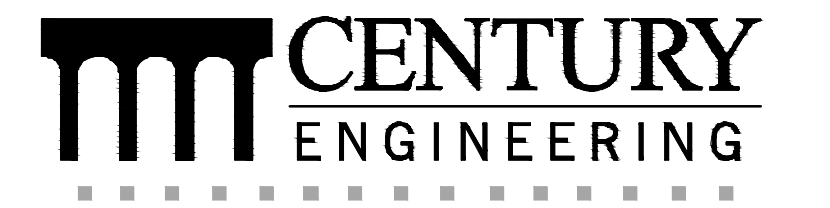
DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

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- Forest stand treeline field located by Century Engineering in November, 2021.

Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS



A Kleinfelder Company
16901 Melford Boulevard, Suite 120, Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

STORMWATER MANAGEMENT PLANTING PLAN
Chaberton Solar Catherine

14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 1908
EXPIRATION DATE: 5/20/2024
4/5/2023

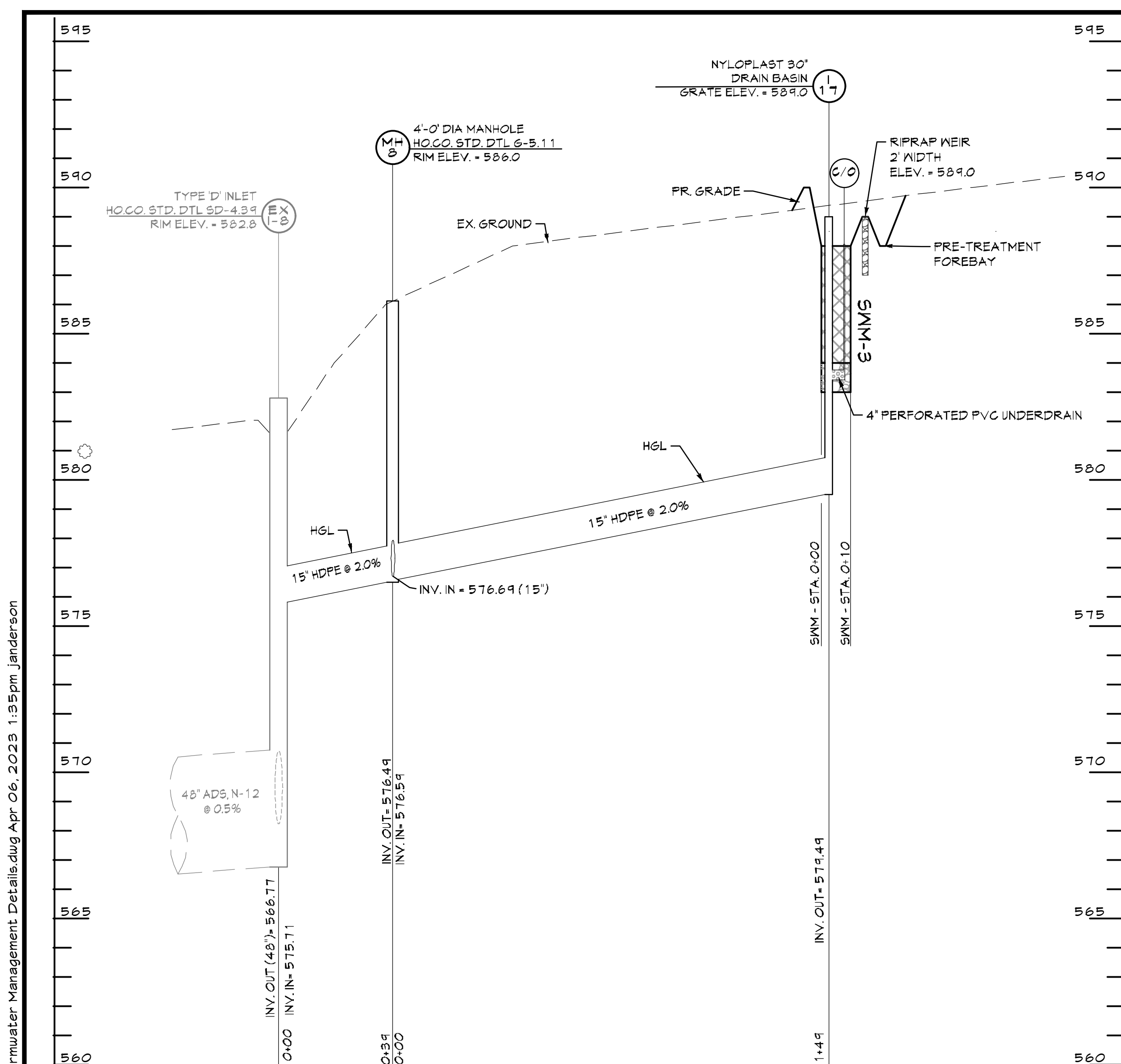
APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR GATHERINE ANEM LLC
CHABERTON SOLAR BTM LLC
1601 KEMATTA STREET, SUITE 700
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EMAIL: afarrington@pivotenergy.net
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PHONE: (410) 910-9200
ENGINEER:
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ATTN: PIERO PETE MELLITS, PE
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EMAIL: pmellits@kleinfelder.com

DRAWN BY: LMV
DESIGN BY: LMV
SCALE: AS SHOWN
PROJECT No.: 21104200

REVIEW BY: MJP
REVIEW DATE: 4/5/2023
DRAWING: 17 of 29
SDP-22-050

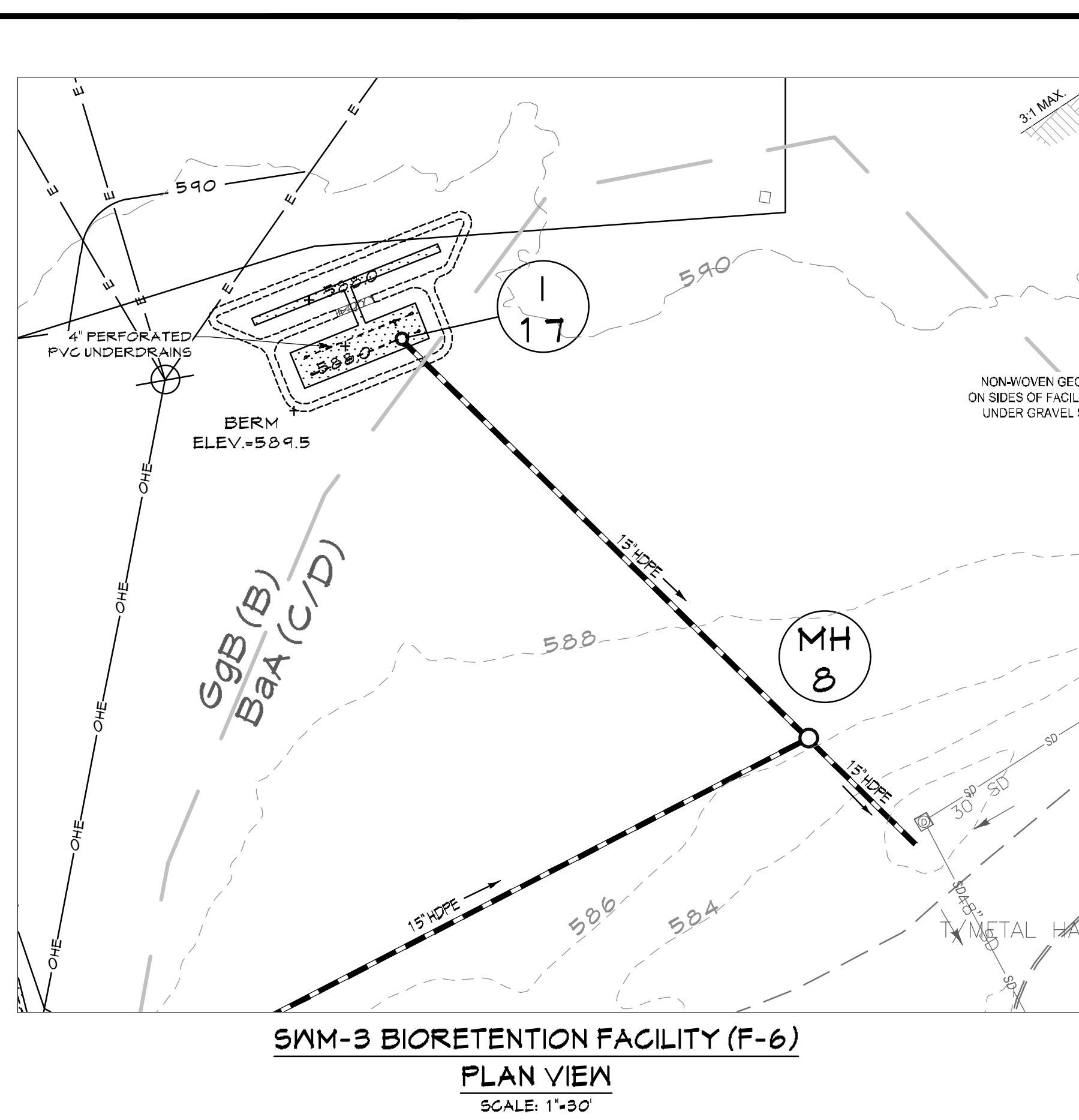
APPROVED: DEPARTMENT OF PLANNING AND ZONING
5/31/2023
Chief, Development Engineering
Date: 5/31/2023
Chief, Division of Land Development
Date: 6/4/2023
Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
5/31/2023
Michael J. Davis
County Health Officer
Howard County Health Department
Date

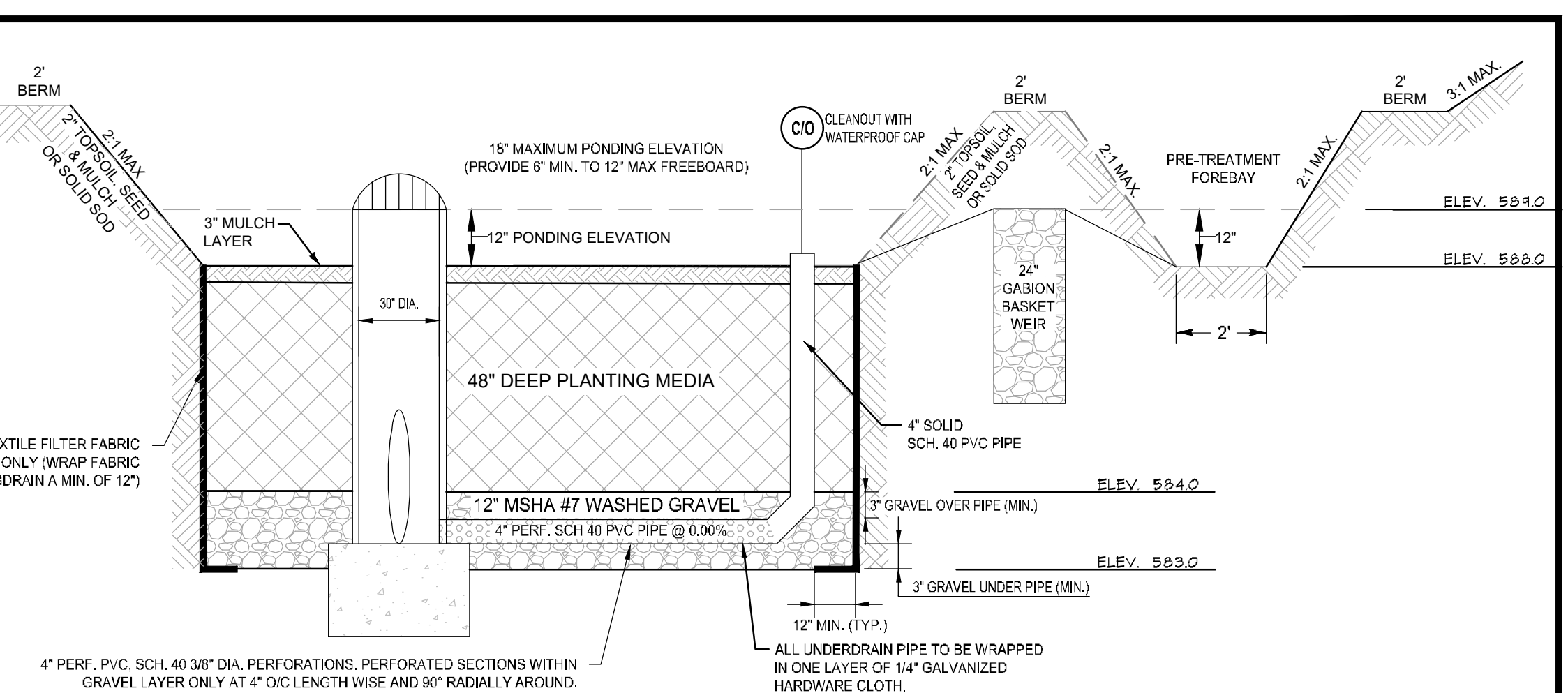


SWM-3 BIORETENTION FACILITY (F-6)

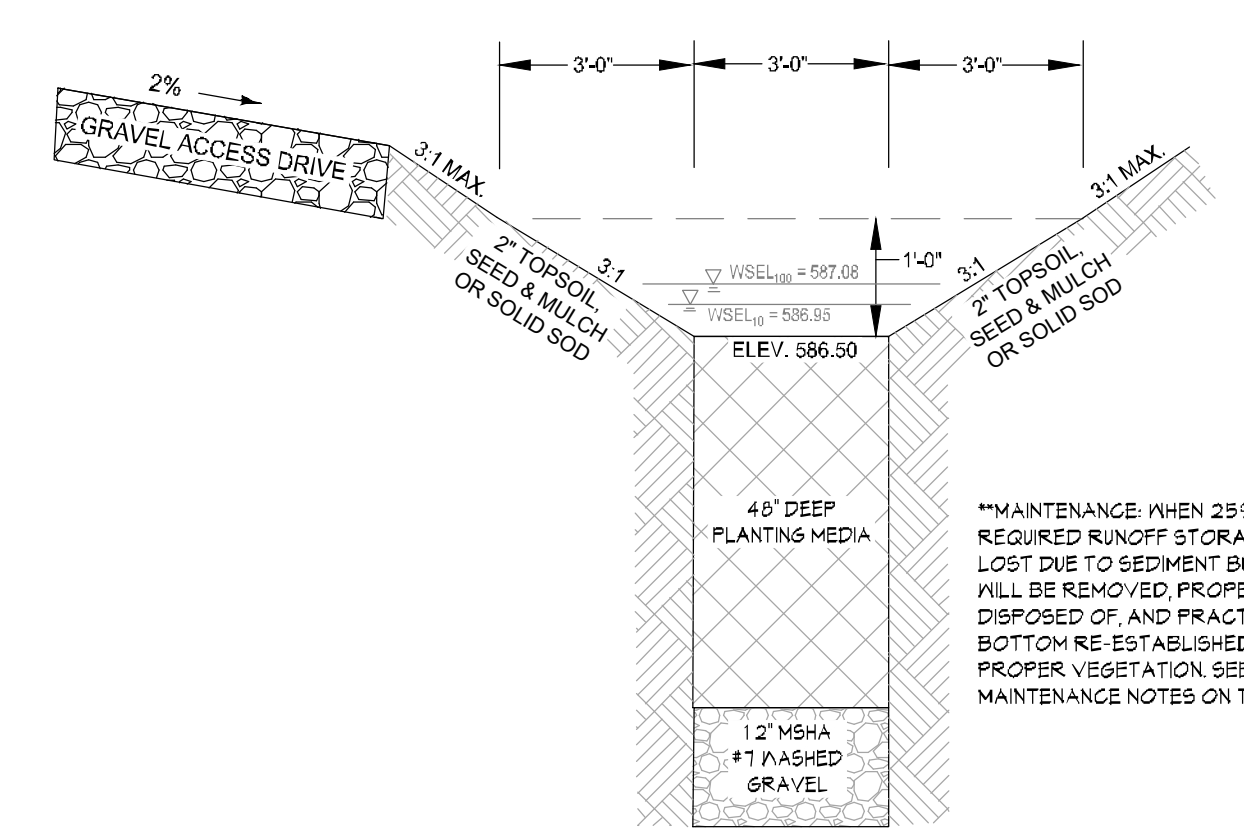
PROFILE
SCALE: H: 1"=30'
V: 1"=3'



SWM-3 BIORETENTION FACILITY (F-6)
PLAN VIEW
SCALE: 1"=30'



SWM-3 BIORETENTION FACILITY (F-6) TYP. SECTION
N.T.S.



SWM-2 BIO-SWALE (M-8) TYP. SECTION
N.T.S.

- DATUM:**
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88
- EX. CONDITION NOTES:**
- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Pennoni.
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DATE	BY	REVISIONS

CENTURY ENGINEERING
A Kleinfelder Company
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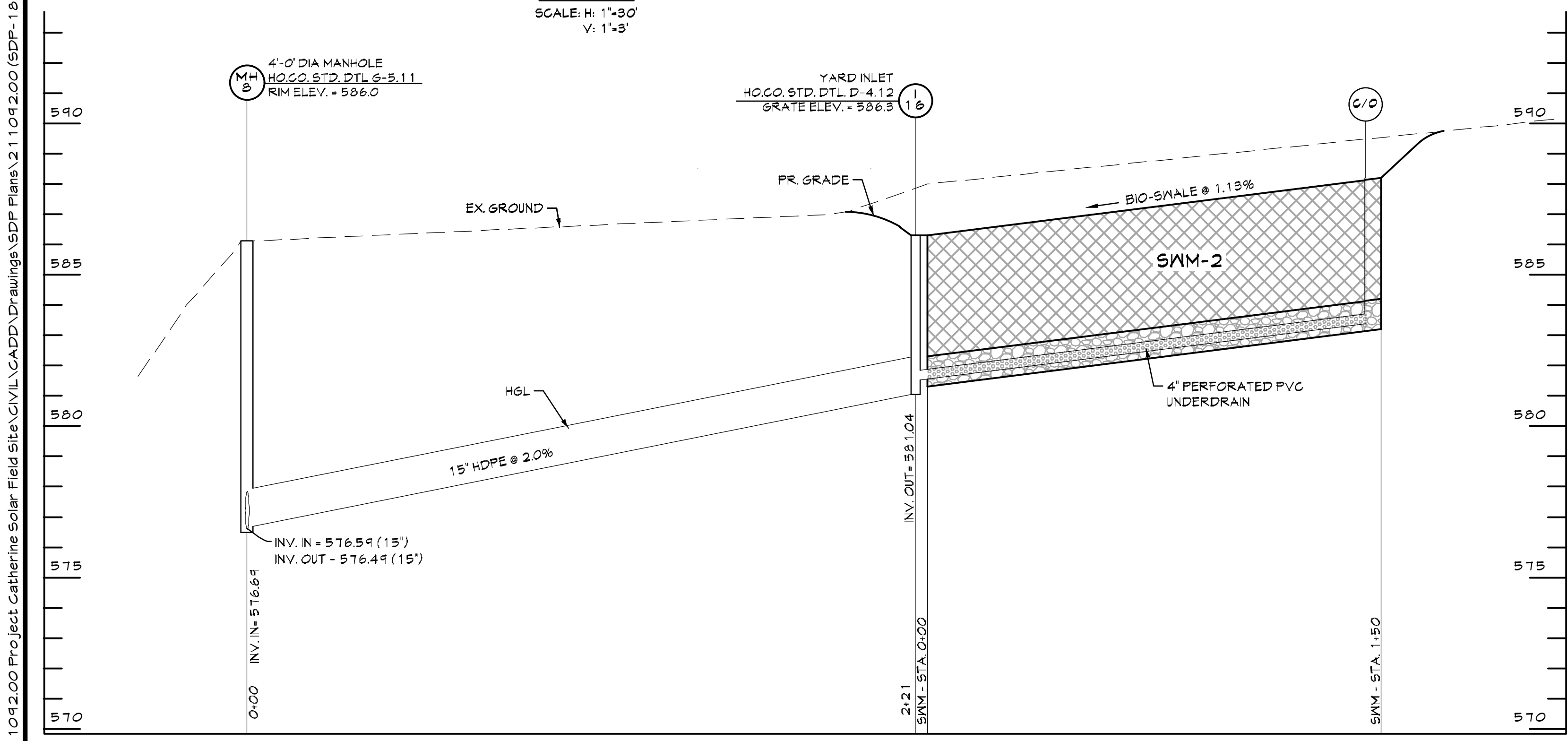
STORMWATER MANAGEMENT DETAILS 1
Chaberton Solar Catherine
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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. 21875
EXPIRATION DATE: 2/12/24

REGISTERED PROFESSIONAL ENGINEER
PIERO MELLITS
4/5/2023

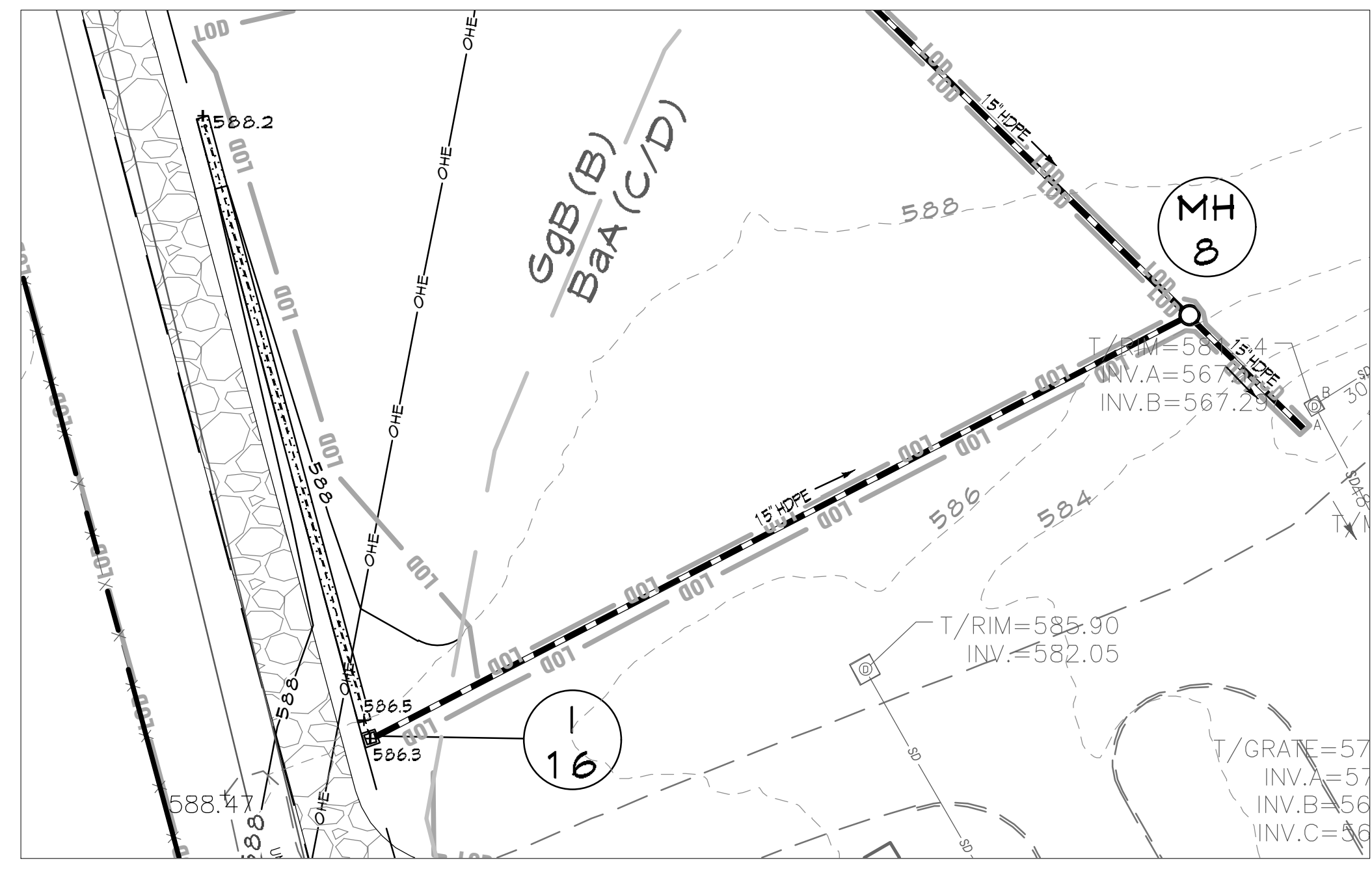
DRAWN BY: JLA
DESIGN BY: JLA
SCALE: AS SHOWN
PROJECT No.: 21109200

REVIEW BY: PVM
REVIEW DATE: 4/5/2023
DRAWING: 18 of 29
SDP-22-050



SWM-2 BIO-SWALE FACILITY (M-8)

PROFILE
SCALE: H: 1"=30'
V: 1"=3'

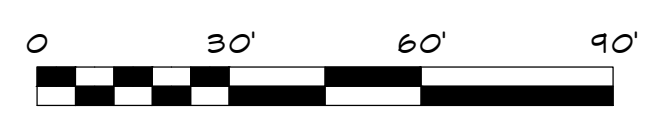


SWM-2 BIO-SWALE FACILITY (M-8)
PLAN VIEW
SCALE: 1"=30'

APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR GATHERNE ANEM LLC
CHABERTON SOLAR BTM LLC
1601 KEMATTA STREET, SUITE 200
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PHONE: (203) 554-5198
EMAIL: afarrington@pivotenergy.net

CURRENT OWNER:
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PHONE: (410) 910-9220

ENGINEER:
CENTURY ENGINEERING LLC
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EMAIL: pmellits@kleinfelder.com

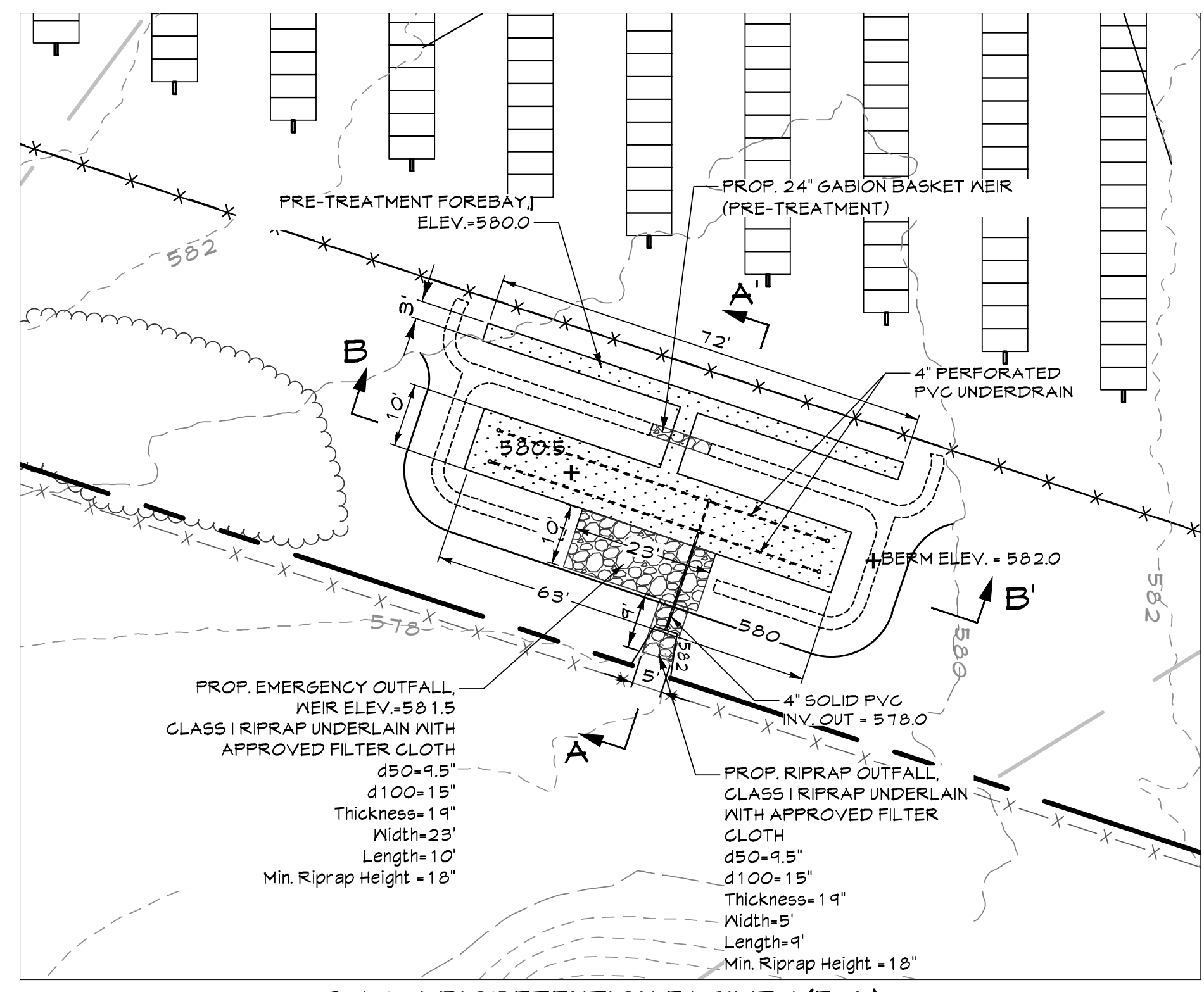


APPROVED: DEPARTMENT OF PLANNING AND ZONING
5/31/2023
Chief, Development Engineering
Date: 5/31/2023
Chief, Division of Land Development
Date: 6/4/2023
Director

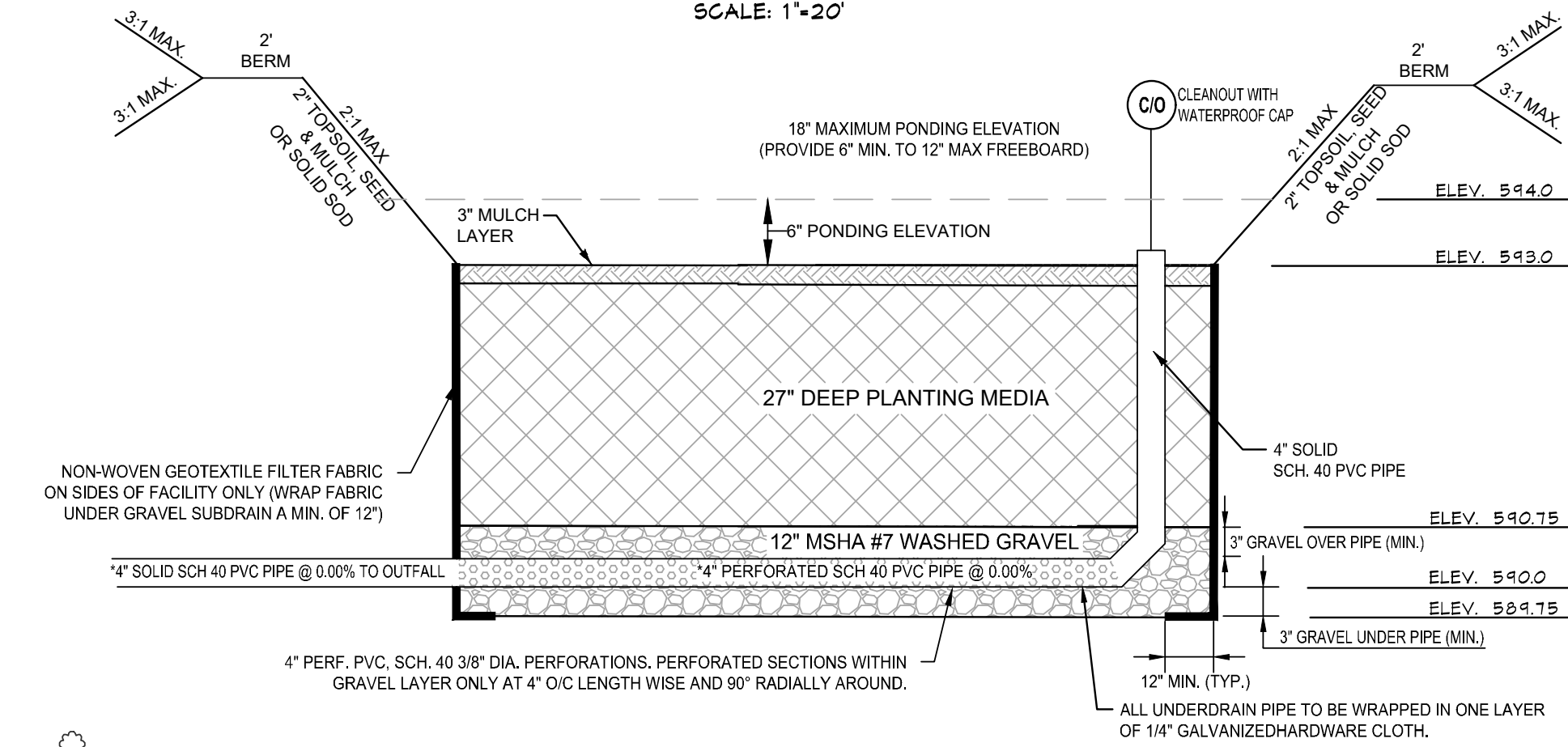
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
Designed by: Michael J. Davis
5/31/2023
County Health Officer
Howard County Health Department

T:\2021\Facilities\21109200 Project Catherine Solar Field Site\CADD\Drawings\SDP Plans\18-20-Stormwater Management Details.dwg Apr 06, 2023 1:35pm janderson

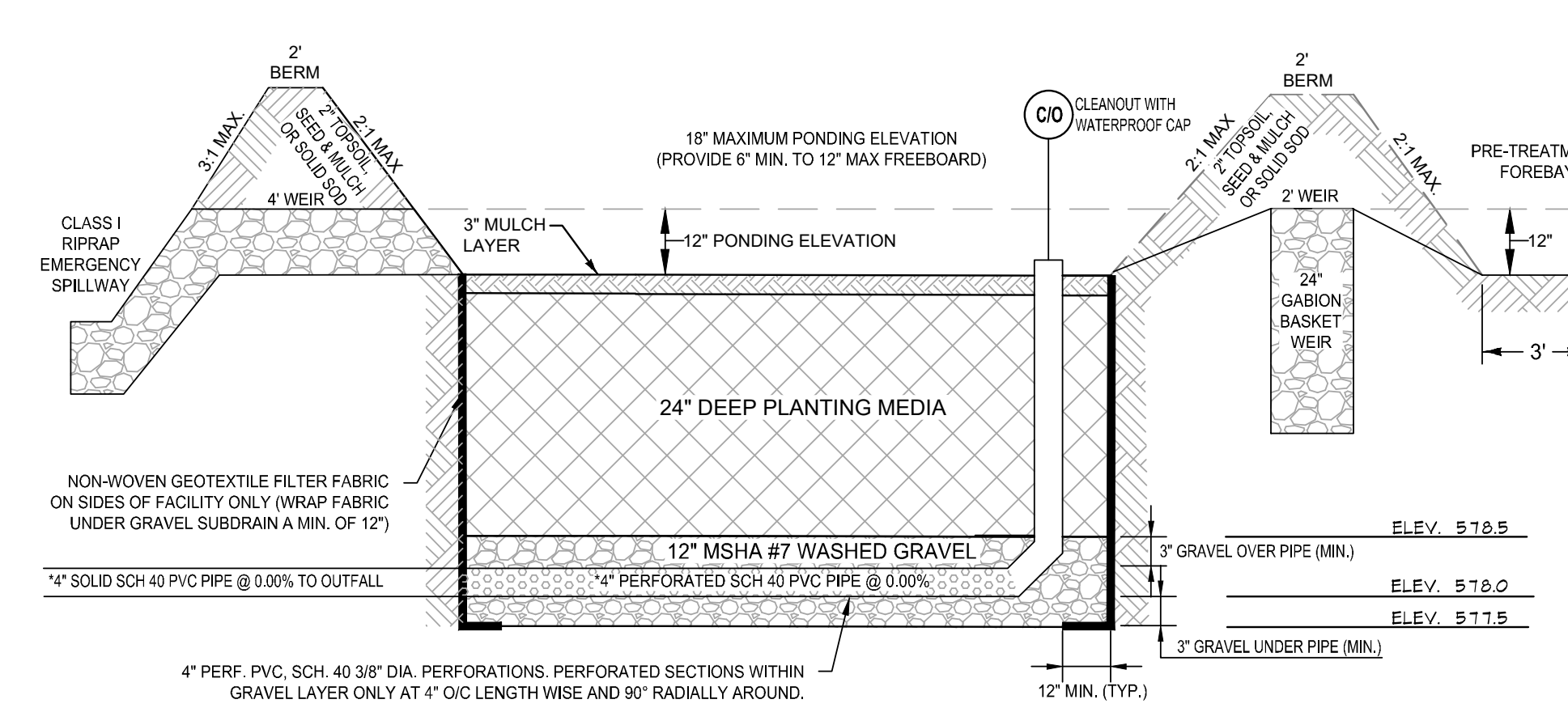
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SWM-4 BIORETENTION FACILITY (F-6)
PLAN VIEW
SCALE: 1"=20'



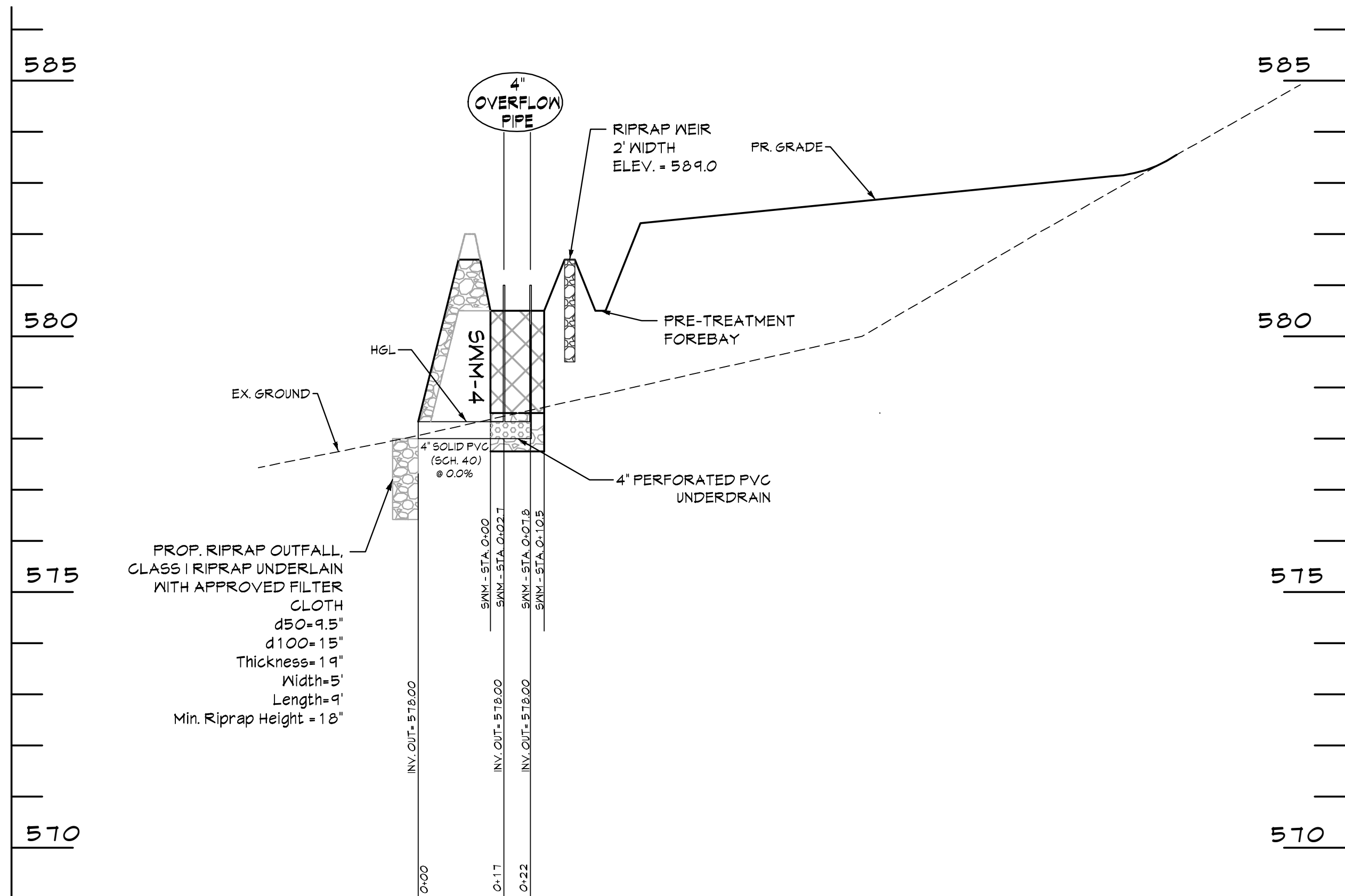
SWM-1 MICRO-BIORETENTION FACILITY (M-8) TYP. SECTION
N.T.S.



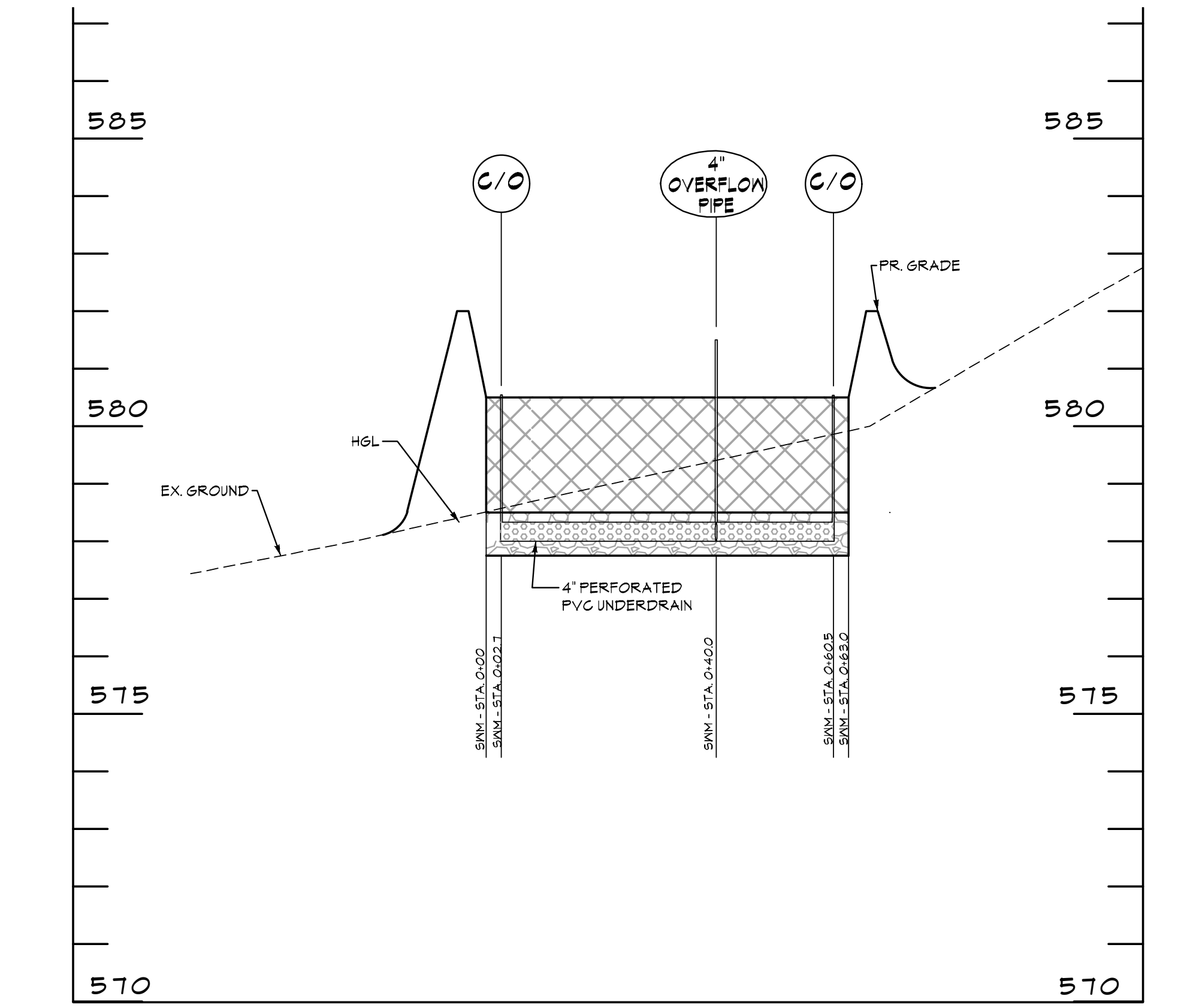
SWM-1 MICRO-BIORETENTION FACILITY (M-8) TYP. SECTION
N.T.S.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Date: 5/31/2023
Chief, Development Engineering
Date: 5/31/2023
Chief, Division of Land Development
Date: 6/4/2023
Director

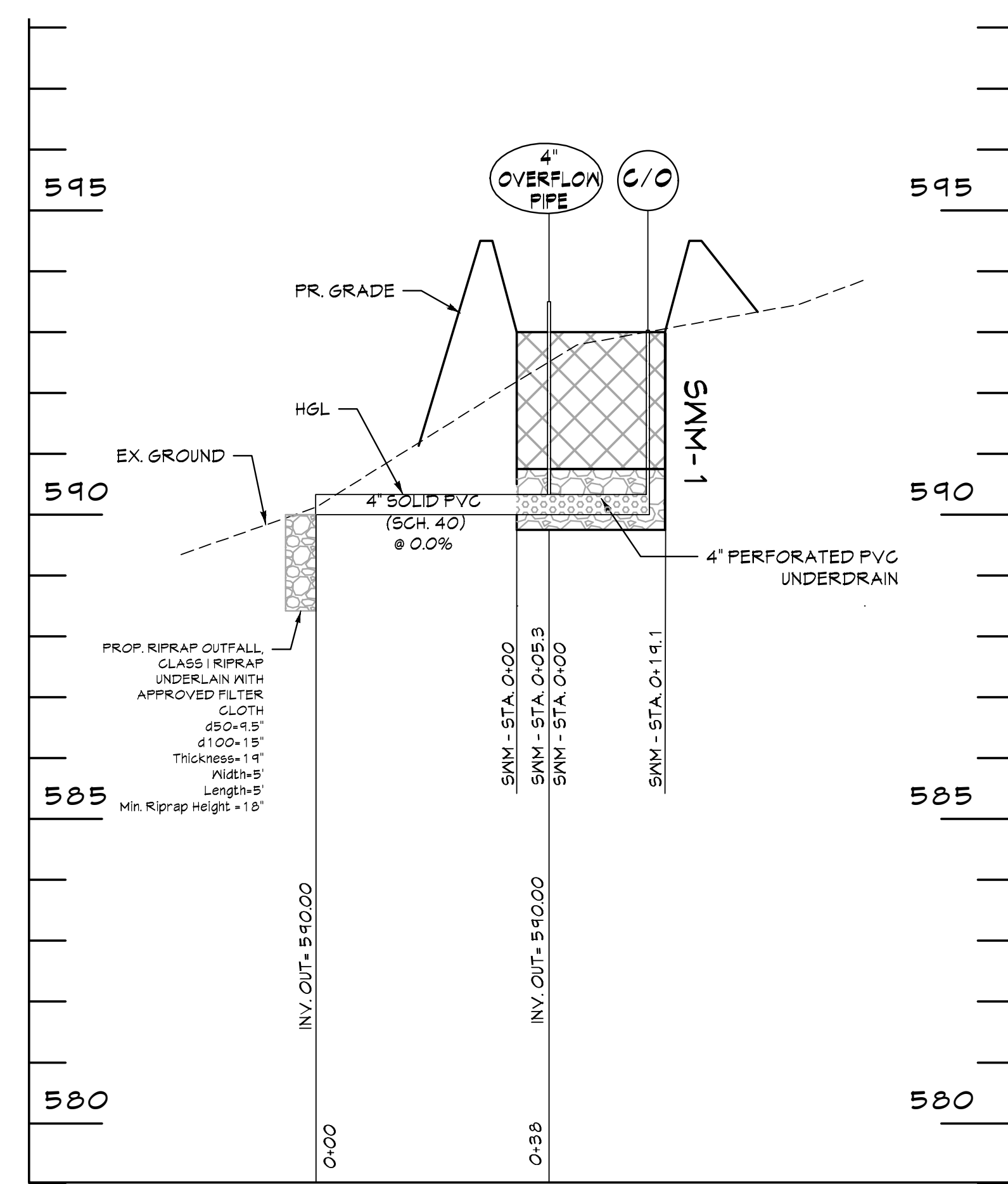
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
DocuSigned by:
Michael J. Davis
Date: 5/31/2023
County Health Officer
Howard County Health Department



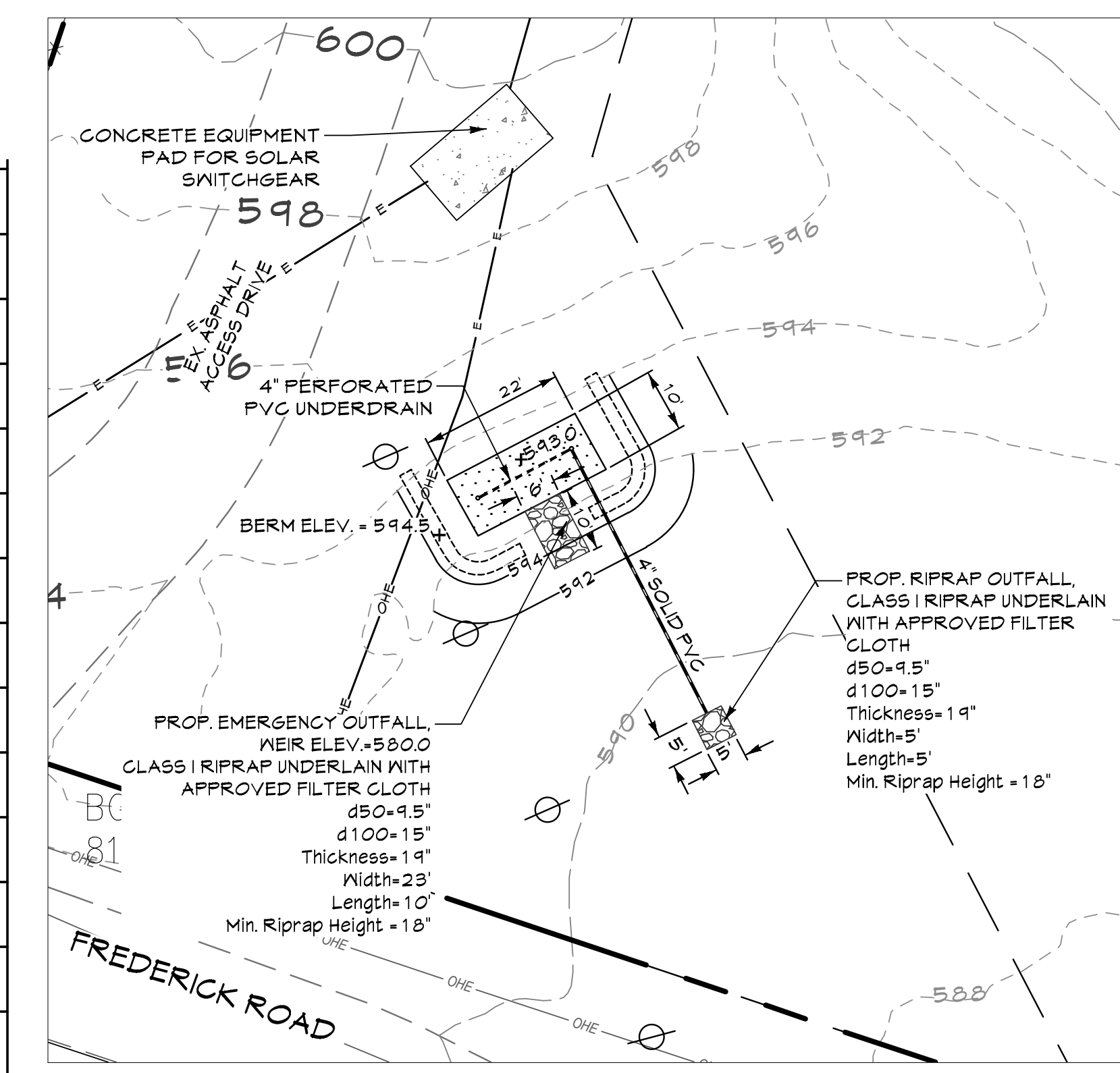
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SECTION A-A' PROFILE
SCALE: H: 1"=20'
V: 1"=2'



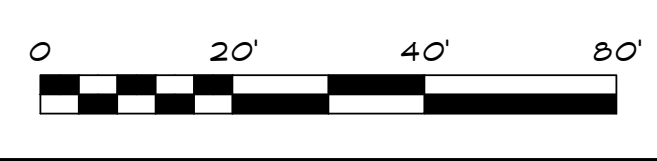
SWM-4 BIORETENTION FACILITY (F-6)
SECTION B-B' PROFILE
SCALE: H: 1"=20'
V: 1"=2'



SWM-1 MICRO-BIORETENTION FACILITY (M-8)
PROFILE
SCALE: H: 1"=20'
V: 1"=2'



SWM-1 MICRO-BIORETENTION FACILITY (M-8)
PLAN VIEW
SCALE: 1"=20'



DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88
EX. CONDITION NOTES:
1. Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
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3. Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

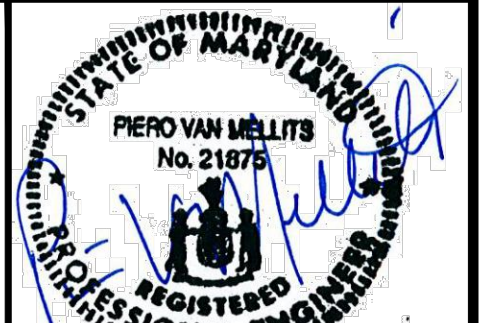
STORMWATER MANAGEMENT DETAILS 2
Chaberton Solar Catherine
14196 Frederick Road, Cookville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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CHABERTON SOLAR GATHERINE ANEM LLC
CHABERTON SOLAR BTM LLC
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PHONE: (203) 554-5198
EMAIL: afarrington@pivotenergy.net
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CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD
COOKVILLE, MD 21723
PHONE: (410) 910-9220
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ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 589-2400
EMAIL: pmellits@kleinfelder.com

PROFESSIONAL CERTIFICATION
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LICENSE No. 21815
EXPIRATION DATE: 2/12/24

DRAWN BY: JLA
DESIGN BY: JLA
SCALE: AS SHOWN
PROJECT No.: 211042300

REVIEW BY: PVM
REVIEW DATE: 4/5/2023
DRAWING: 19 of 29
SDP-22-050



Appendix B.4. Construction Specifications for Environmental Site Design Practices

Table B.4.1 Materials Specifications for Micro-Bioretentation, Rain Gardens & Landscape Infiltration- Material Specification Size Notes

Table B.3.2 Materials Specifications for Bioretention

Table B.3.2 Materials Specifications for Bioretention Material Specification Size Notes

B.3.B Specifications for Bioretention

1. Material Specifications

The allowable materials to be used in bioretention area are detailed in Table B.3.2.

2. Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches.

The planting soil shall be tested and shall meet the following criteria:

Table with 2 columns: Property (pH range, organic matter, etc.) and Value (5.2 - 7.0, 1.5 - 4%, etc.)

All bioretention areas shall have a minimum of one test. Each test shall consist of both the standard soil test for pH, phosphorus, and potassium...

Since different labs calibrate their testing equipment differently, all testing results shall come from the same testing facility.

Should the pH fall out of the acceptable range, it may be modified (higher) with lime or (lower) with iron sulfate plus sulfur.

3. Compaction

It is very important to minimize compaction of both the base of the bioretention area and the required backfill.

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.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer.

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.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin.

4. Plant Material

Recommended plant material for bioretention areas can be found in Appendix A, Section A.2.3.

5. Plant Installation

Mulch should be placed to a uniform thickness of 2" to 3". Shredded hardwood mulch is the only accepted mulch.

Root stock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8" of the ball is above final grade surface.

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling.

6. Underdrains

Underdrains are to be placed on a 3'-0" wide section of filter cloth. Pipe is placed next, followed by the gravel bedding.

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.

7. Miscellaneous

The bioretention facility may not be constructed until all contributing drainage area has been stabilized.

B.4.C Specifications for Micro-Bioretentation, 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.

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).

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.

3. Compaction

It is very important to minimize compaction of both the base of bioretention practices and the required backfill.

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.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer.

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.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin.

4. Plant Material

Recommended plant material for micro-bioretentation 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.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8" of the ball is above final grade surface.

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling.

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 PS 28, or AASHTO-M-278) in a gravel layer.
A rigid, non-perforated observation well must be provided.

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.

7. Miscellaneous

These practices may not be constructed until all contributing drainage area has been stabilized.

BIORETENTION: Operation and Maintenance

- Annual maintenance of plant material, mulch layer, sand media and soil layer is required.
Schedule of plant inspection will be twice a year in spring and fall.

FOREBAY: Operation and Maintenance

- Forebay shall be inspected annually and after major storm events.
Check for woody vegetation on dam and within 25 feet of release.

NON-ROOFTOP DISCONNECTION: Operation and Maintenance

Non-rooftop disconnection involves directing flow from impervious surfaces onto vegetated areas where it can soak into or filter over the ground.

- Maintenance of areas receiving disconnection runoff is generally no different than that required for other lawn or landscaped areas.

SWALE : Operation and Maintenance

- The open channel swale shall be inspected annually and after major storm events.
Repair erosion and maintain access surface in good condition.

DATUM: HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88
EX. CONDITION NOTES: 1. Existing topography provided from aerial survey by McKenzie Snyder, Inc.

Table with 3 columns: DATE, BY, REVISIONS

CENTURY ENGINEERING logo and contact information: 16901 Melford Boulevard, Suite 120, Bowie, MD 20715

STORMWATER MANAGEMENT NOTES Chaberton Solar Catherine 14196 Frederick Road, Cooksville, MD

Piero Mellits APPLICANT/DEVELOPER: CHABERTON SOLAR CATHERINE LLC
ATTN: ADAM FARRINGTON, PROJECT MANAGER

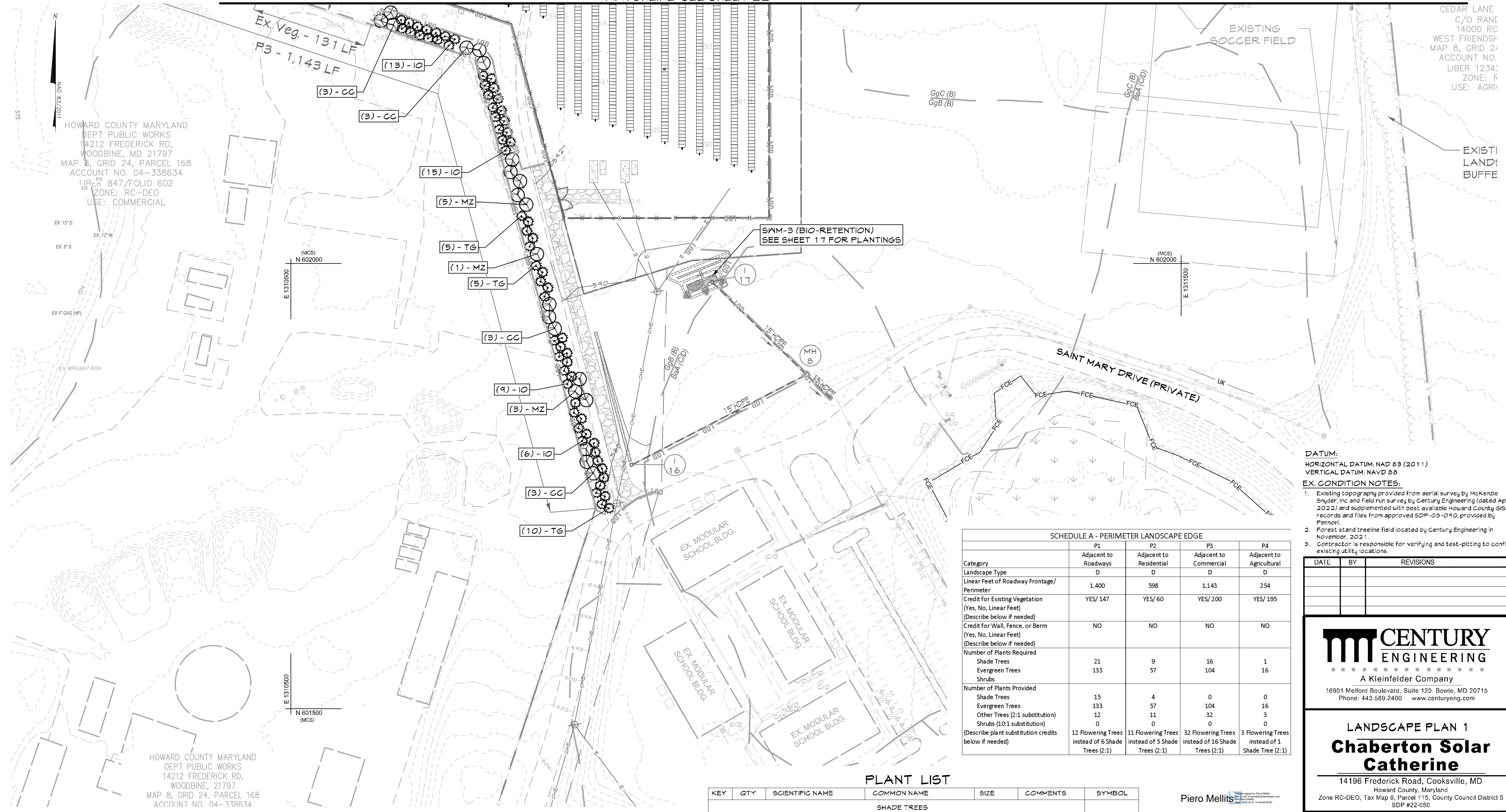
PROFESSIONAL CERTIFICATION stamp and drawing information: DRAWN BY: JLA, REVIEW BY: PVM, SCALE: AS SHOWN, PROJECT No.: 211092.00

T:\2021\Facilities\211092.00 Project, Catherine Solar, Field Site\CADD Drawings\SDP Plans\211092.00 (SDP - 18 - 20) Stormwater Management Details.dwg Apr 06, 2023 1:36pm janderson

APPROVED: DEPARTMENT OF PLANNING AND ZONING 5/31/2023 Chief, Development Engineering

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS 5/31/2023 Michael J. Davis County Health Officer

MATCHLINE-SEE SHEET 22



CEDAR LANE
C/O RANE
14000 RC
WEST FRIENDS-
MAP 8, GRID 2-
ACCOUNT NO.
LIBER 1234;
ZONE: F
USE: AGRIC

EXISTING
LAND:
BUFFE

HOWARD COUNTY MARYLAND
DEPT PUBLIC WORKS
14212 FREDERICK RD,
WOODBINE, MD 21797
MAP 8, GRID 24, PARCEL 168
ACCOUNT NO. 04-338634
LIPER 847/FOLIO 602
ZONE: RC-DEO
USE: COMMERCIAL

EX 15' D
EX 8' S
EX 12' W
EX 4" GAS (HP)

(MCS)
N 602000
E 1310500

(MCS)
N 602000
E 1311500

(MCS)
N 601500
E 1310500

HOWARD COUNTY MARYLAND
DEPT PUBLIC WORKS
14212 FREDERICK RD,
WOODBINE, 21797
MAP 8, GRID 24, PARCEL 168
ACCOUNT NO. 04-338634

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 83

EX. CONDITION NOTES:
1. Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Pennoni.
2. Forest stand treeline field located by Century Engineering in November, 2021.
3. Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

Category	SCHEDULE A - PERIMETER LANDSCAPE EDGE			
	P1 Adjacent to Roadways	P2 Adjacent to Residential	P3 Adjacent to Commercial	P4 Adjacent to Agricultural
Landscape Type	D	D	D	D
Linear Feet of Roadway Frontage/ Perimeter	1,400	598	1,143	254
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	YES/ 147	YES/ 60	YES/ 200	YES/ 195
Credit for Wall, Fence, or Berm (Yes, No, Linear Feet) (Describe below if needed)	NO	NO	NO	NO
Number of Plants Required				
Shade Trees	21	9	16	1
Evergreen Trees	133	57	104	16
Shrubs				
Number of Plants Provided				
Shade Trees	15	4	0	0
Evergreen Trees	133	57	104	16
Other Trees (2:1 substitution)	12	11	32	3
Shrubs (10:1 substitution)	0	0	0	0
(Describe plant substitution credits below if needed)	12 Flowering Trees Trees (2:1)	11 Flowering Trees Trees (2:1)	32 Flowering Trees instead of 16 Shade Trees (2:1)	3 Flowering Trees instead of 1 Shade Tree (2:1)

PLANT LIST

KEY	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENTS	SYMBOL
SHADE TREES						
AC	3	<i>Acer campestre</i>	Hedge Maple	2.5" cal.	B & B, specimen	+
QP	9	<i>Quercus phellos</i>	Willow Oak	2.5" cal.	B & B, specimen	+
TC	7	<i>Tilia cordata 'greenspire'</i>	Greenspire Little Leaf Linden	2.5" cal.	B & B, specimen	+
FLOWERING TREES						
CC	32	<i>Cercis canadensis</i>	Eastern Redbud	1.5" - 2" cal.	B & B	☾
MZ	11	<i>Malus x zumi 'Calocarpa'</i>	Zumi Crabapple	1.5" - 2" cal.	B & B	☾
AM	15	<i>Amelanchier canadensis</i>	Serviceberry	8' - 10' ht.	B & B	☾
EVERGREEN TREES						
IO	205	<i>Ilex opaca</i>	American Holly	6' ht.	B & B, heavy	☼
TG	105	<i>Thuja plicata</i>	Green Giant Arborvitae	6' ht.	B & B, heavy	☼

Piero Mellits
APPLICANT/DEVELOPER:
CHABERTON SOLAR GATHERNE LLC
CHABERTON SOLAR GATHERNE ANEM LLC
CHABERTON SOLAR BTM LLC
1601 KEMATTA STREET, SUITE 100
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 554-5198
EMAIL: afarrington@pivotenergy.net
CURRENT OWNER:
ST. MARY CORTIC ORTHODOX
CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD
COOKSVILLE, MD 21123
PHONE: (410) 910-9220
ENGINEER:
CENTURY ENGINEERING LLC
16901 MELFORD BLVD, SUITE 124
BOWIE, MD 20715
ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 589-2400
EMAIL: pmellits@kleinfelder.com

DEVELOPER'S / OWNER'S LANDSCAPE 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 Landscape Manual. I / We further certify that upon completion, a Letter of Landscape Installation accompanied by an executed one-year guarantee of plant materials will be submitted to the Department of Planning and Zoning.
DocuSigned by:
Adam Farrington
DEVELOPER'S NAME/SIGNATURE
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
DocuSigned by:
Michael J. Davis
County Health Officer
Howard County Health Department

LANDSCAPE PLAN 1
SCALE: 1"=50'
0 50' 100' 150'

NOTE:
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, INCLUDING 18 SHADE TREES AT \$300 EACH, 39 ORNAMENTAL TREES AT \$150 EACH, AND 310 EVERGREEN TREES AT \$150 EACH, THE TOTAL FINANCIAL SURETY IN THE AMOUNT OF \$60,000.00, WILL BE POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT.

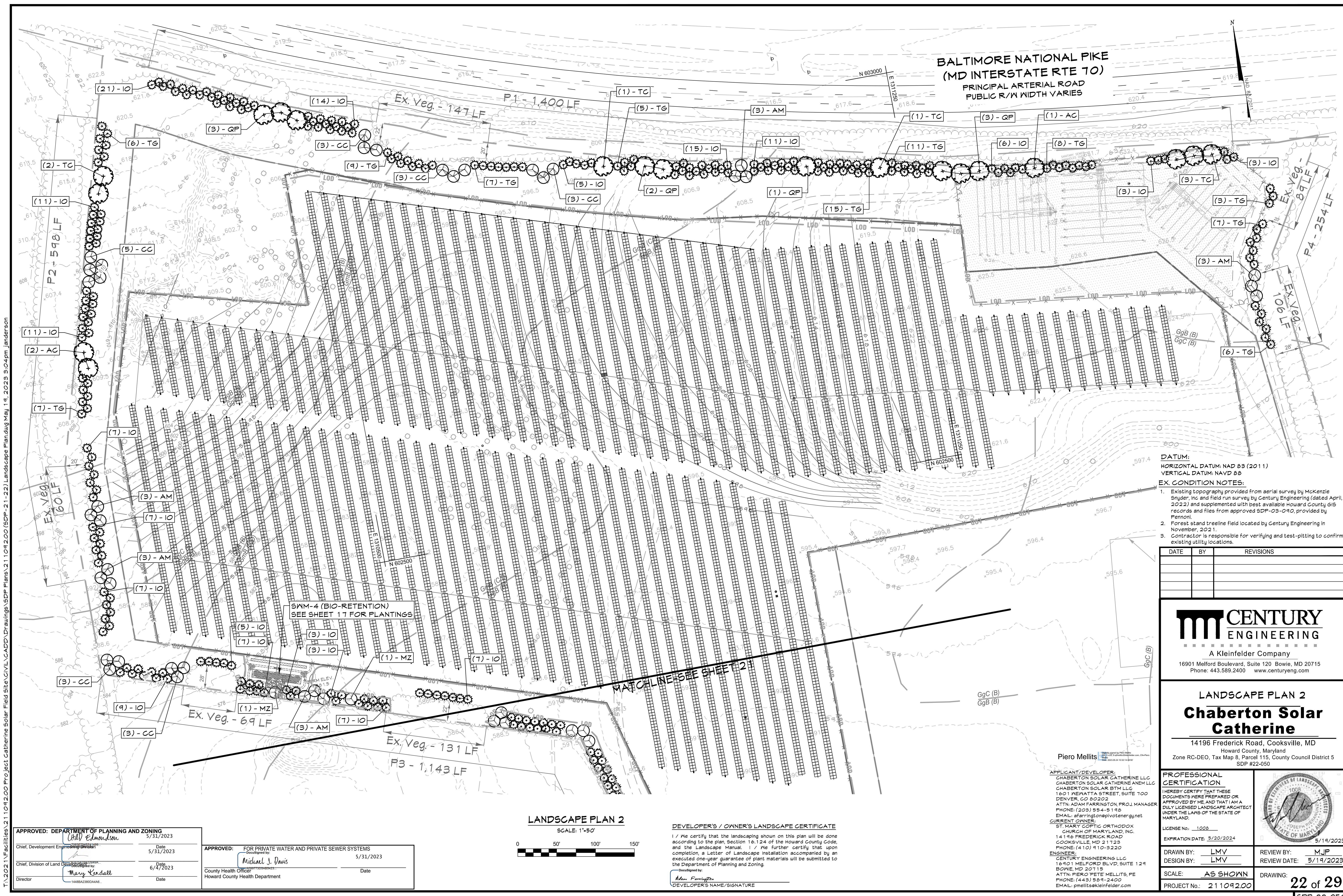
APPROVED: DEPARTMENT OF PLANNING AND ZONING
DocuSigned by:
Mary Kendall
Chief, Division of Land Development
Date: 6/4/2023
Director

DATE	BY	REVISIONS

CENTURY ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

LANDSCAPE PLAN 1
Chaberton Solar Catherine
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE No: 1028
EXPIRATION DATE: 5/20/2024
DATE: 4/5/2023
DRAWN BY: LMV
DESIGN BY: LMV
SCALE: AS SHOWN
PROJECT No.: 21109200
REVIEW BY: MJP
REVIEW DATE: 4/5/2023
DRAWING: 21 of 29
SDP-22-050



DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

**LANDSCAPE PLAN 2
Chaberton Solar Catherine**
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 10028
EXPIRATION DATE: 5/20/2024

5/14/2023

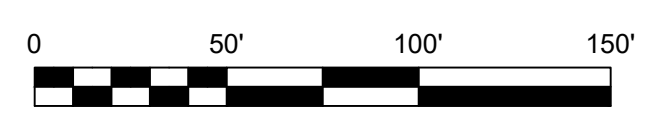
DRAWN BY: LMV
DESIGN BY: LMV
SCALE: AS SHOWN
PROJECT No.: 21109200

REVIEW BY: MJP
REVIEW DATE: 5/14/2023
DRAWING: 22 of 29
SDP-22-050

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Date: 5/31/2023
Chief, Development Engineering
Date: 5/31/2023
Chief, Division of Land Use
Date: 6/4/2023
Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
Date: 5/31/2023
County Health Officer
Howard County Health Department

LANDSCAPE PLAN 2
SCALE: 1"=50'



DEVELOPER'S / OWNER'S LANDSCAPE CERTIFICATE
I / We certify that the landscaping shown on this plan will be done according to the plan, Section 18.124 of the Howard County Code, and the Landscape Manual. I / We further certify that upon completion, a Letter of Landscape Installation accompanied by an executed one-year guarantee of plant materials will be submitted to the Department of Planning and Zoning.

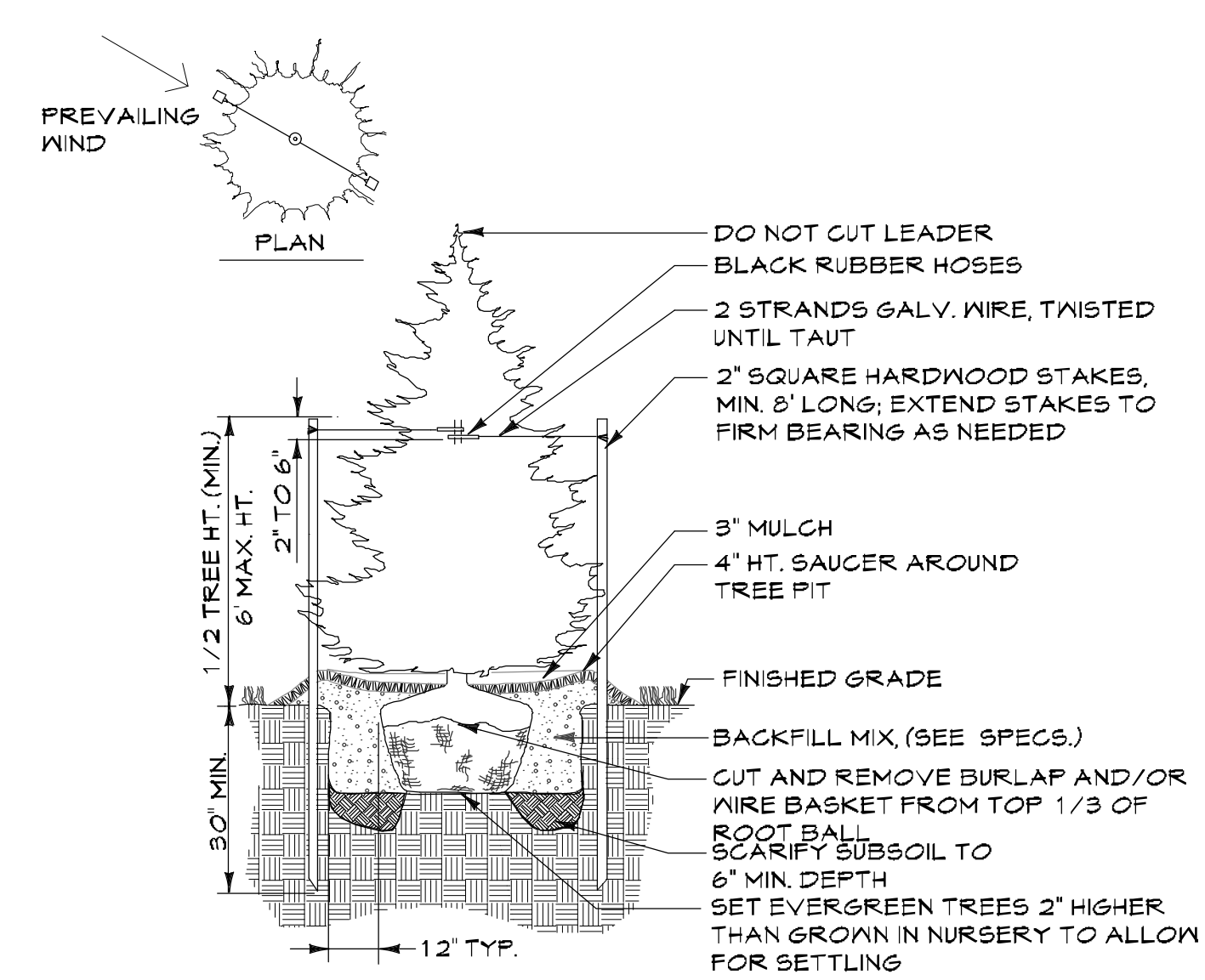
DEVELOPER'S NAME/SIGNATURE

Piero Mellits
APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR CATHERINE ANEM LLC
CHABERTON SOLAR BTM LLC
1601 NEWATTA STREET, SUITE 100
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 554-5198
EMAIL: afarrington@pivotenergy.net
CURRENT OWNER:
ST. MARY COPTIC ORTHODOX
CHURCH OF MARYLAND, INC.
14196 FREDERICK ROAD
COOKSVILLE, MD 21123
PHONE: (410) 910-9220
ENGINEER:
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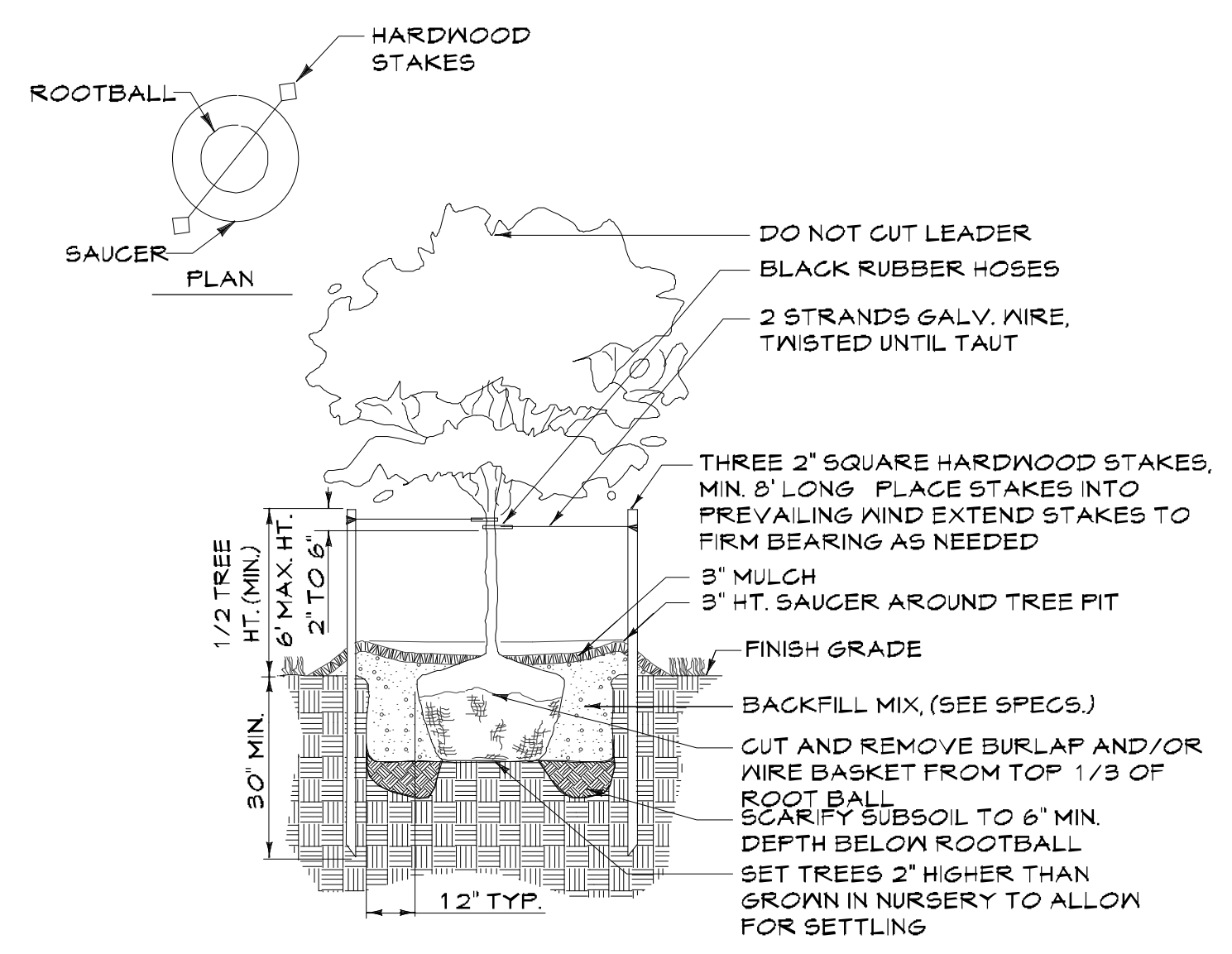


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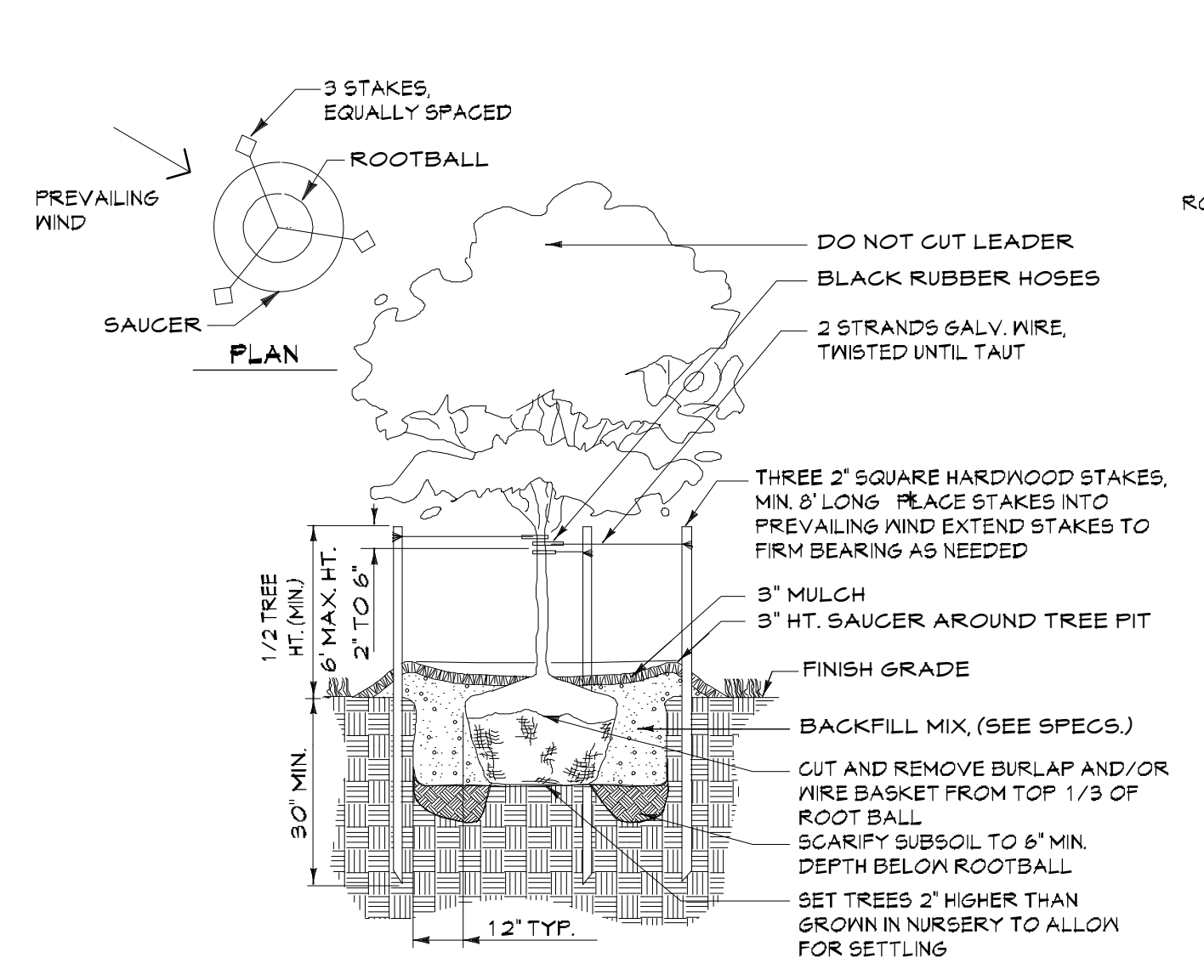
T:\2021\Facilities\211042300 Project Catherine Solar Field Site\CADD\Drawings\SDP Plans\211042300 (SDP-23) Landscape Details.dwg Apr 06, 2023 11:37pm janderson



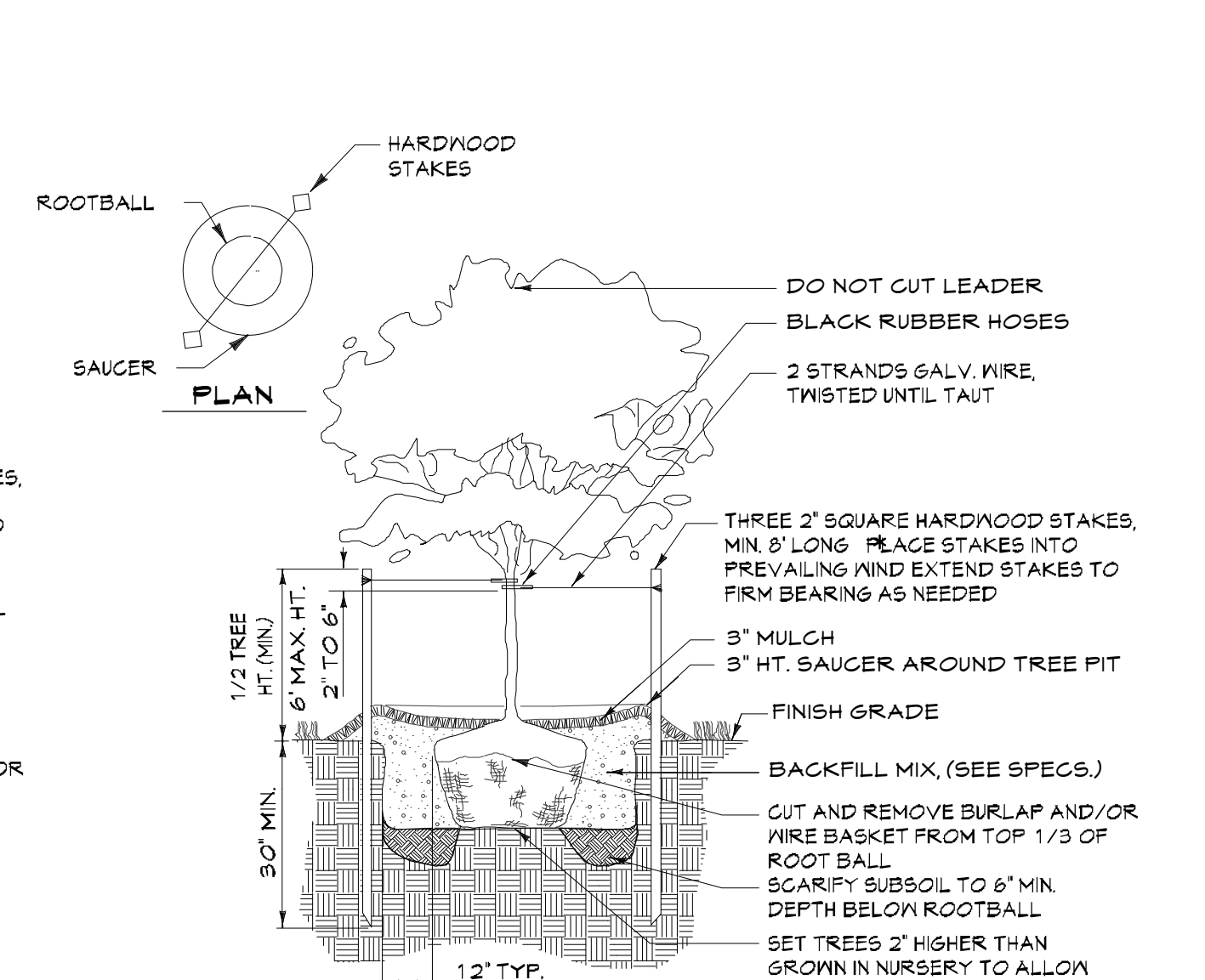
EVERGREEN TREE PLANTING
Not To Scale



FLOWERING TREE PLANTING
Not To Scale



DECIDUOUS TREE PLANTING
GREATER THAN 3" CALIPER
Not To Scale



DECIDUOUS TREE PLANTING
LESS THAN 3" CALIPER
Not To Scale

POLLINATOR HABITAT SEED MIX

DESCRIPTION	BULK QUANTITY	PLS QUANTITY	UOM
ROUNDBEED PANICGRASS	0.377	0.350	LB PLS
PATH RUSH, PA ECOTYPE	0.066	0.050	LB PLS
PURPLE LOVEGRASS, FORT INDIANTOWN GAP-PA ECOTYPE	0.023	0.020	LB PLS
SENSITIVE PEA, NC ECOTYPE	0.082	0.080	LB PLS
BLACKEYED SUSAN	0.123	0.120	LB PLS
LANCELEAF COREOPSIS	0.113	0.100	LB PLS
MISTFLOWER, VA ECOTYPE	0.008	0.005	LB PLS
BUTTERFLY MILKWEED	0.020	0.013	LB PLS
AROMATIC ASTER, PA ECOTYPE	0.019	0.010	LB PLS
NARROWLEAF MOUNTAINMINT	0.024	0.020	LB PLS
GOLDEN ALEXANDERS, PA ECOTYPE	0.023	0.020	LB PLS
NARROWLEAF BLUE EYED GRASS	0.032	0.030	LB PLS
EASTERN GRAY BEARDTONGUE	0.005	0.005	LB PLS
HAIRY BEARDTONGUE	0.006	0.005	LB PLS
CALICO ASTER	0.013	0.010	LB PLS
AUTUMN BENTGRASS, ALBANY FINE BUSH-NY ECOTYPE	0.157	0.150	LB PLS

PLANTING NOTES

- Plant material substitutions will not be accepted without approval of the Landscape Architect.
- All shrubs and groundcover areas shall be planted in continuous prepared planting beds.
- All shrub beds shall be mulched with hardwood mulch as detailed and specified except where noted on plans.
- Maintain positive drainage out of planting beds at a minimum of two percent slope.
- Plant quantities are provided for the convenience of the contractor. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
- All areas within contract limits disturbed during or prior to construction not designated to receive plantings and mulch shall be fine graded and seeded in accordance with planting and construction.
- The contractor shall notify Miss Utility, (800-257-7171) a minimum of three working days prior to planting and construction.
- All plant material shall be nursery grown and shall conform to American Nurserymen Association Standards.
- All planting procedures shall conform to Landscape Contractors Association Specification Guidelines for Baltimore/Washington Metropolitan Area (latest edition) and Century Engineering, Inc. specifications.
- Contractor shall test pit prior to plant installation.

MINIMUM LANDSCAPE MAINTENANCE REQUIREMENTS

- Lawn areas shall be mowed to a height of 2 to 3 inches and not allowed to reach a height of 4 inches before mowing.
- All curbs and walks shall be edged as needed.
- All lawn areas adjacent to building faces or structures shall be trimmed.
- A slow release nitrogen balanced fertilizer with a 2-1-1 ratio shall be applied at a rate of 2 pounds of nitrogen per 1000 square feet in September, October, and February.
- Lime shall be applied at the rate determined by a soils report.
- It is recommended that lawn areas be treated in mid-March to early April with pre-emergent herbicide (Betasan) or equal applied at the manufacturer's rate.
- A post-emergent herbicide (Trimec) or equal is recommended to be sprayed on lawn areas in the late spring or early fall. Follow manufacturer's rates and recommendations.
- Insecticides and fungicides are recommended for insect and disease control.
- Reseed bare areas of lawn as necessary. Yearly aeration is recommended.
- All trash, litter, and debris shall be removed from lawn areas, parking lots, and shrub beds as needed.
- Mulch all shrub and groundcover beds yearly with 3 inches of shredded hardwood bark.
- Prune shrubs and trees to grow and enlarge to their design size. Consult project Landscape Architect for details.
- Prune trees in accordance with Landscape Specification Guidelines for Baltimore-Washington Metropolitan Areas.

DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-090, provided by Pennoni.
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- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
A Kleinfelder Company
16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

LANDSCAPE DETAILS AND NOTES
Chaberton Solar Catherine
14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

Piero Mellits
APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR CATHERINE ANEM LLC
CHABERTON SOLAR BTM LLC
1601 NEWATTA STREET, SUITE 200
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ATTN: ADAM FARRINGTON, PROJ. MANAGER
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ENGINEER:
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16901 MELFORD BLVD, SUITE 129
BOWIE, MD 20715
ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 589-2400
EMAIL: pmellits@kleinfelder.com

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 1008
EXPIRATION DATE: 5/20/2024

DATE: 4/5/2023

DRAWN BY: JLA
DESIGN BY: JLA

REVIEW BY: PVM
REVIEW DATE: 4/5/2023

SCALE: AS SHOWN
PROJECT No.: 211042300

DRAWING: 23 of 29
SDP-22-050

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Date: 5/31/2023
Chief, Development Engineering
Date: 5/31/2023
Chief, Division of Land Development
Date: 6/4/2023
Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
Date: 5/31/2023
Michael J. Davis
County Health Officer
Howard County Health Department

HOWARD COUNTY MARYLAND
DEPT PUBLIC WORKS
14212 FREDERICK RD,
WOODBINE, 21797
MAP 8, GRID 24, PARCEL 168
ACCOUNT NO. 04-338634
LIBER 847/FOLIO 602
ZONE: RC-DEO
USE: COMMERCIAL

CEDAR LANE FARM II L
C/O RAND GRIFFIN
14000 ROUTE 144,
WEST FRIENDSHIP, MD 21794
MAP 8, GRID 24, PARCEL 168
ACCOUNT NO. 04-328634
LIBER 12342/FOLIO 602
ZONE: RC-DEO
USE: AGRICULTURAL

PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Powercon Switchgear
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility
- Proposed Landscaping

SEDIMENT CONTROL LEGEND

- Same-Day-Stabilization
- Super Silt Fence
- Stabilized Construction Entrance
- Staging Area/Stockpile Area
- Inlet Protection

EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing BGE Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Existing Steep Slope Areas

Owners/Developer Certification:

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

Developed by: Adam Farrington 4/5/2023
Owner/Developer Signature: Adam Farrington
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."

Design Signature: Alexander Bratchik
Date: 1/2023
MD Registration No. 21875
P.E. R.L.S., or R.L.A. (circle one)

MOBBERLEY JENNIFER JANE
14195 ROUTE 144,
WEST FRIENDSHIP, MD 21794
MAP 14, GRID 6, PARCEL 46
ACCOUNT NO. 04-310683
LIBER 16869/FOLIO 23
ZONE: RC-DEO

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Signature: Alexander Bratchik
Date: 1/2023
Howard Soil Conservation District

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Date: 5/31/2023
Chief, Development Engineering
Date: 6/4/2023
Chief, Division of Land Development
Date: 5/31/2023
Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
Date: 5/31/2023
Signature: Michael J. Davis
County Health Officer
Howard County Health Department

EROSION & SEDIMENT CONTROL PLAN 1

SCALE: 1"=50'



DATUM:
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 83

- EX CONDITION NOTES:
- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Permit.
 - Forest stand treeline field located by Century Engineering in November, 2021.
 - Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT EQUIPMENT PAD



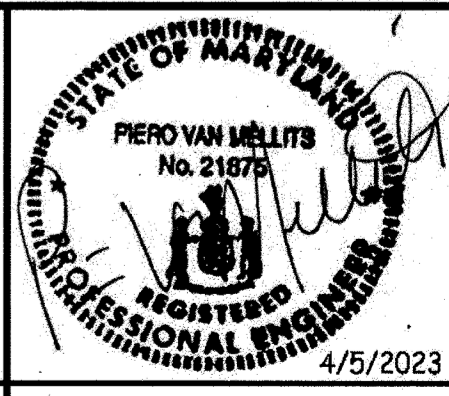
A Kleinfelder Company
16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

EROSION & SEDIMENT CONTROL PLAN 1
Chaberton Solar Catherine

14196 Frederick Road, Cooksville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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.: 21875
EXPIRATION DATE: 2/12/24

DRAWN BY: JLA
DESIGN BY: JLA

REVIEW BY: PVM
REVIEW DATE: 4/5/2023

SCALE: AS SHOWN
PROJECT No.: 21109200

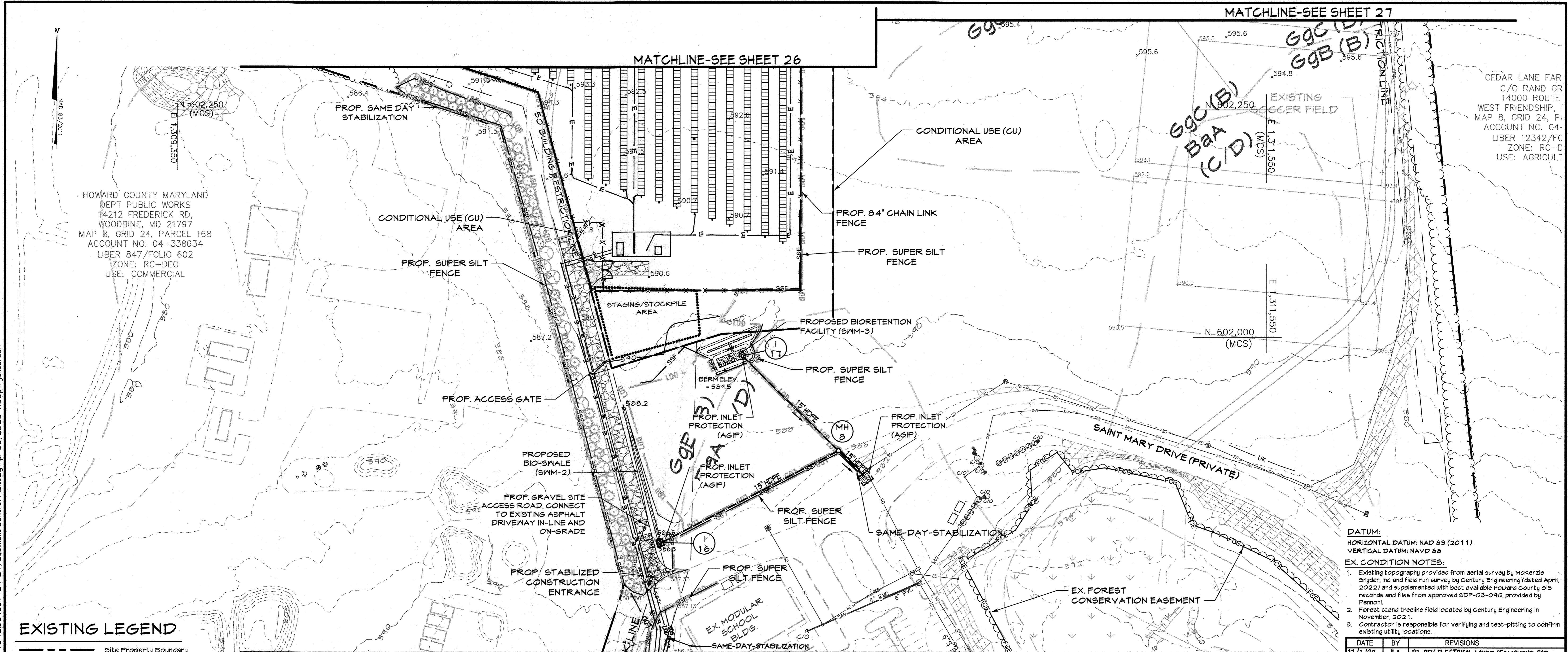
DRAWING: 24 of 29
SDP-22-050

Piero Melli

APPLICANT/DEVELOPER:
CHABERTON SOLAR CATHERINE LLC
CHABERTON SOLAR CATHERINE ANEN LLC
CHABERTON SOLAR BTM LLC
1601 NEBATA STREET, SUITE 100
DENVER, CO 80202
ATTN: ADAM FARRINGTON, PROJ. MANAGER
PHONE: (203) 954-5198
EMAIL: afarrington@pivotenergy.net
CURRENT OWNER:
ST. MARY COPTIC ORTHODOX
CHURCH OF MARYLAND, INC.
14116 FREDERICK ROAD,
COOKSVILLE, MD 21123
PHONE: (410) 410-9220
ENGINEER:
CENTURY ENGINEERING LLC
16401 MELFORD BLVD, SUITE 124
BOWIE, MD 20715
ATTN: PIERO PETE WELLS, PE
PHONE: (443) 584-2400
EMAIL: pmwells@kleinfelder.com

T:\2021\Facilities\21109200 Project Catherine Solar Field Site\CIVIL\CADD Drawings\SDP Plans\21109200 (SDP-24-27) Sediment Control Planning Apr 06, 2023 1:39pm janderson

T:\2021\Facilities\21104200 Project Catherine Solar Field Site\CIVIL\CADD Drawings\SDP Plans\21104200 (SDP-24-27) Sediment Control Plan.dwg Apr 06, 2023 1:39pm janderson



EXISTING LEGEND

- Site Property Boundary
- - - Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- FCE Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- OHE Existing Overhead Electric
- E Existing Buried Electric
- BGE#542497 Existing BGE Utility Pole
- X-X-X Existing Fence Line
- Av Soil Line
- SAN Existing Sanitary Sewer
- SD Existing Storm Drain
- Existing Well
- Existing Steep Slope Areas

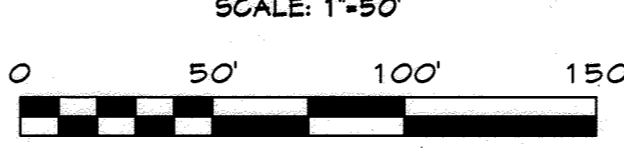
PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Powercon Switchgear
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility
- Proposed Landscaping

SEDIMENT CONTROL LEGEND

- SDS Same-Day-Stabilization
- SSF Super Silt Fence
- Stabilized Construction Entrance
- Staging Area/Stockpile Area
- Inlet Protection

EROSION & SEDIMENT CONTROL PLAN 2



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering
 Date: 5/31/2023

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 County Health Officer
 Date: 5/31/2023

Owners/Developer Certification:
 "I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."
 Date: 4/5/2023
 Signature: Adam Farrington
 Printed Name & Title: Adam Farrington

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."
 Date: 4-6-23
 Signature: Alexander Bratchie
 Printed Name & Title: Alexander Bratchie
 Date: 6/1/2023

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 Date: _____

Piero Mellits
 APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 KEMATTA STREET, SUITE 700
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5149
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX
 CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKSVILLE, MD 21123
 PHONE: (410) 410-9220
 ENGINEER:
 CENTURY ENGINEERING LLC
 16401 MELFORD BLVD, SUITE 124
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 584-2400
 EMAIL: pmellits@kleinfelder.com

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88
 EX. CONDITION NOTES:
 1. Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Penomil.
 2. Forest stand treeline field located by Century Engineering in November, 2021.
 3. Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

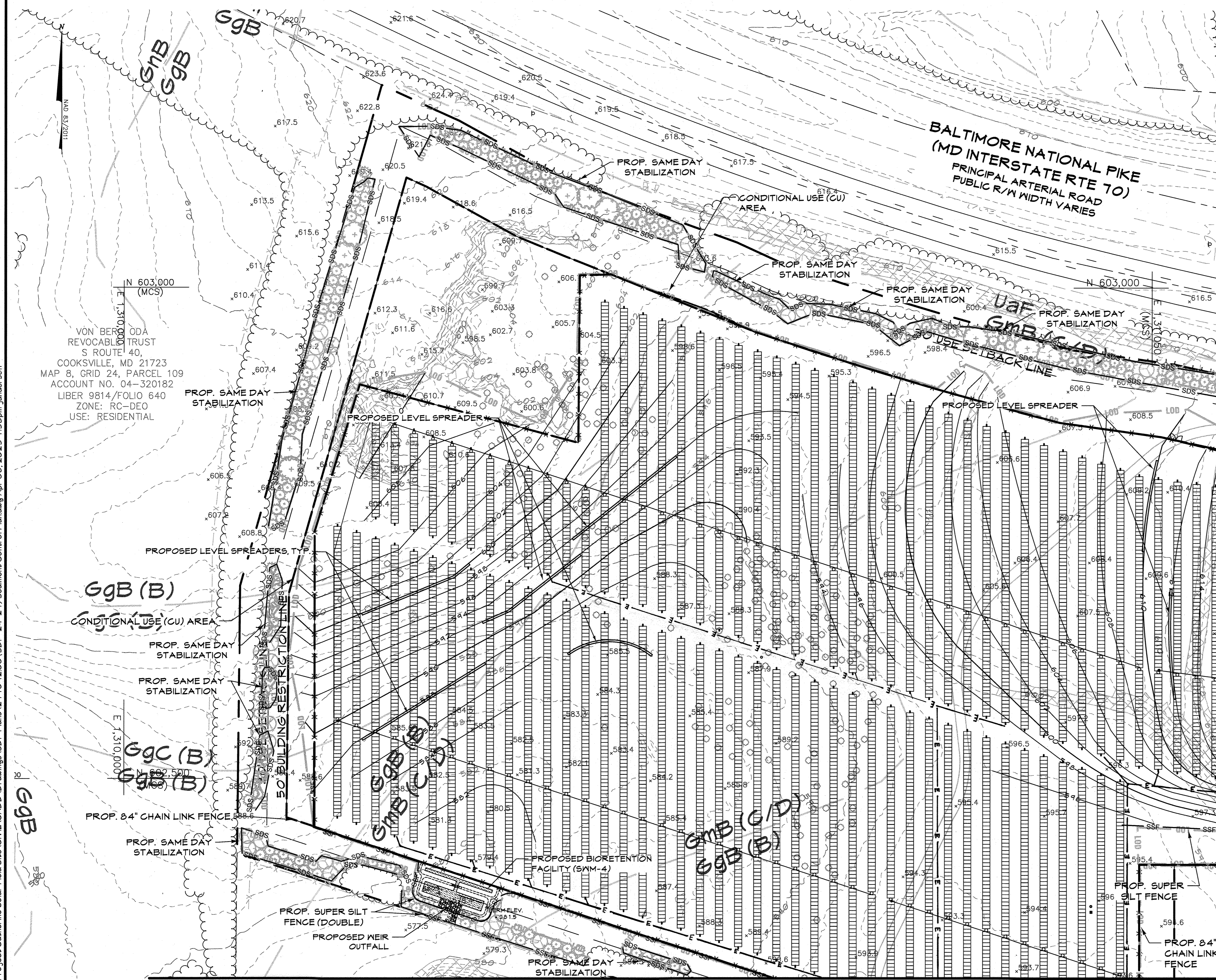
DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT /EQUIPMENT PAD

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

EROSION & SEDIMENT CONTROL PLAN 2
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

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.: 21875
 EXPIRATION DATE: 2/12/24

DATE: 4/5/2023
 DRAWN BY: JLA
 DESIGN BY: JLA
 SCALE: AS SHOWN
 PROJECT No.: 21104200
 REVIEW BY: PVM
 REVIEW DATE: 4/5/2023
 DRAWING: 25 of 29
 SDP-22-050



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- FCE
- Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing Overhead Electric
- Existing Buried Electric
- Existing BSE Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Storm Drain
- Existing Well
- Existing Steep Slope Areas

PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Powercon Switchgear
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence Line
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility
- Proposed Landscaping

SEDIMENT CONTROL LEGEND

- Same-Day-Stabilization
- Super Silt Fence
- Stabilized Construction Entrance
- Staging Area/Stockpile Area
- Inlet Protection

VON BERG ODA REVOCABLE TRUST S ROUTE 40, COOKSVILLE, MD 21723 MAP 8, GRID 24, PARCEL 109 ACCOUNT NO. 04-320182 LIBER 9814/FOLIO 640 ZONE: RC-DEO USE: RESIDENTIAL

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

- Existing topography provided from aerial survey by McKenzie Snyder, Inc. and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDF-03-040, provided by Pennoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT/EQUIPMENT PAD

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

EROSION & SEDIMENT CONTROL PLAN 3
Chaberton Solar Catherine
 14196 Frederick Road, Cooksville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

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.

APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR BTM LLC
 1601 WEMATTA STREET, SUITE 700 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5148
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD COOKSVILLE, MD 21723
 PHONE: (410) 910-3220

ENGINEER:
 CENTURY ENGINEERING LLC
 16401 MELFORD BLVD, SUITE 124 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com

DATE: 4/5/2023

EXPIRATION DATE: 2/12/24

DRAWN BY: JLA REVIEW BY: PVM
 DESIGN BY: JLA REVIEW DATE: 4/5/2023

SCALE: AS SHOWN DRAWING: 26 of 29
 PROJECT No.: 211092.00

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 5/31/2023
 Chief, Development Engineering Division
 Date: 5/31/2023
 Chief, Division of Land Development
 Date: 6/4/2023
 Director

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 5/31/2023
 Michael J. Davis
 County Health Officer
 Howard County Health Department
 Date

Owners/Developer Certification:

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

Owner/Developer's Signature: Adam Farrington
 Date: 4/5/2023
 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."

Designer's Signature: Piero Pete Mellits, PE
 Date: 4-6-23
 MD Registration No. 21875
 (P.E.) R.L.S., or R.L.A. (circle one)

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

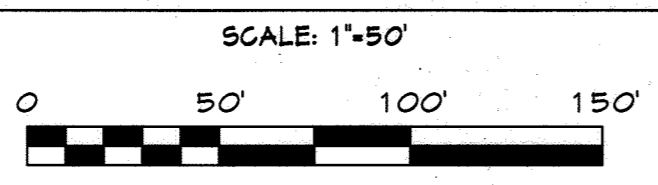
Approved by: Alexander Bratovic
 Date: 6/1/2023
 Howard Soil Conservation District

T:\2021\Facilities\211092.00 Project Catherine Solar Field Site\CIVIL\CADD\Drawings\SDF Plans\211092.00 (SDF-24-2T) Sediment Control Plan.dwg Apr 06, 2023 1:39pm janderson

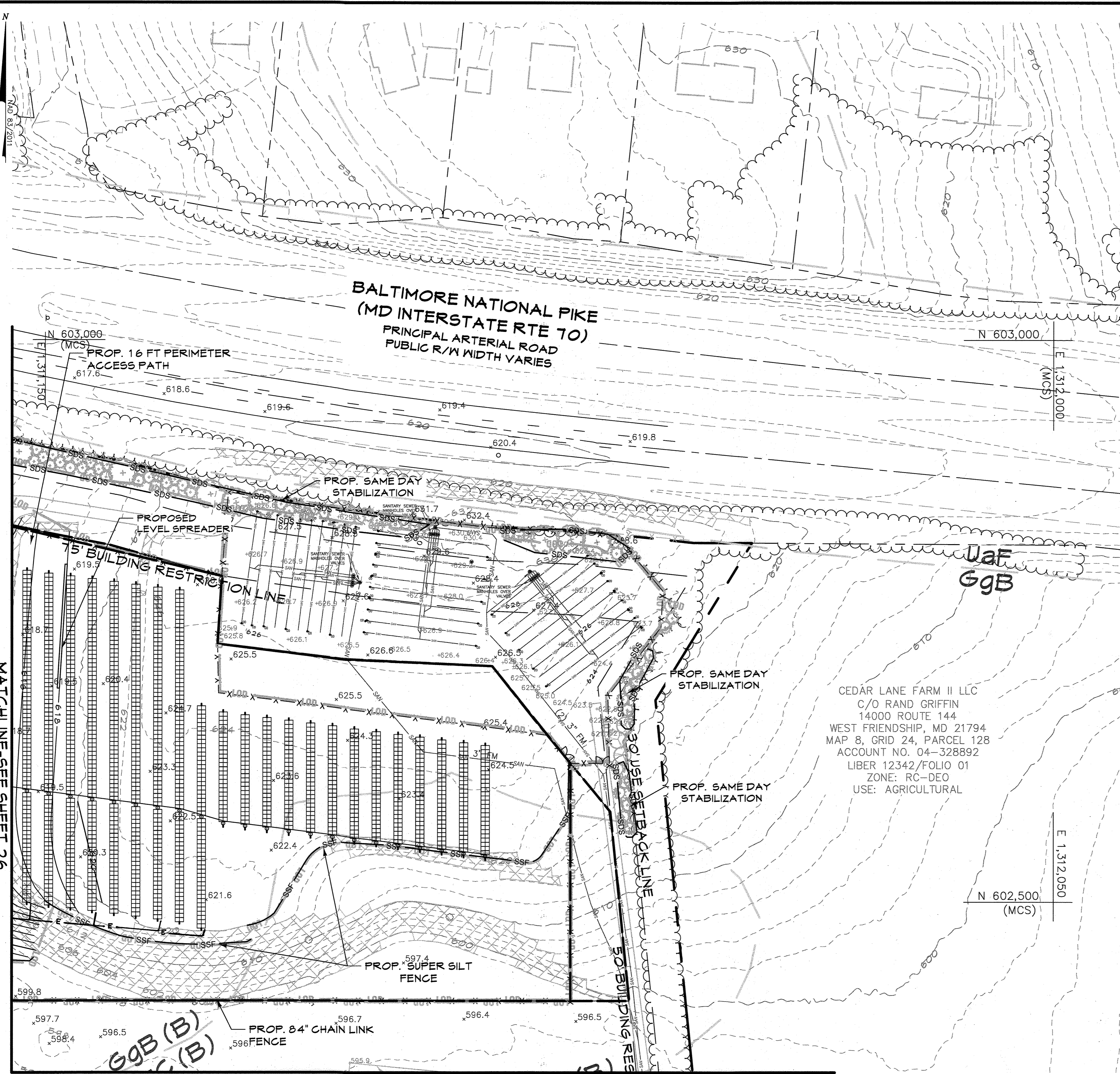
MATCHLINE-SEE SHEET 27

MATCHLINE-SEE SHEET 25

EROSION & SEDIMENT CONTROL PLAN 3



T:\2021\Facilities\211092.00 Project Catherine Solar Field Site\CIVIL\CADD\Drawings\SDP Plans\211092.00 (SDP-24-2) Sediment Control Planning May 14, 2023 9:10pm janderson



EXISTING LEGEND

- Site Property Boundary
- - - Existing Minor Contour
- - - Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- FCE Forest Conservation Easement
- Existing Wetlands
- Existing Wetlands Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- OHE Existing Overhead Electric
- E Existing Buried Electric
- BGE Existing BGE Utility Pole
- X-X-X Existing Fence Line
- Av Soil Line
- SAN Existing Sanitary Sewer
- SD Existing Storm Drain
- W Existing Well
- Existing Steep Slope Areas

PROPOSED LEGEND

- Conditional Use (CU) Area
- Proposed Power on Switchgear
- LOB Proposed Limit of Disturbance
- 658 Proposed Grades
- OHE Proposed Overhead Electric
- E Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- X-X-X-X Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Stormwater Management Facility
- Proposed Landscaping

SEDIMENT CONTROL LEGEND

- SDS Same-Day-Stabilization
- SSF Super Silt Fence
- Stabilized Construction Entrance
- Staging Area/Stockpile Area
- Inlet Protection

CEDAR LANE FARM II LLC
 C/O RAND GRIFFIN
 14000 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 MAP 8, GRID 24, PARCEL 128
 ACCOUNT NO. 04-328892
 LIBER 12342/FOLIO 01
 ZONE: RC-DEO
 USE: AGRICULTURAL

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

EX. CONDITION NOTES:

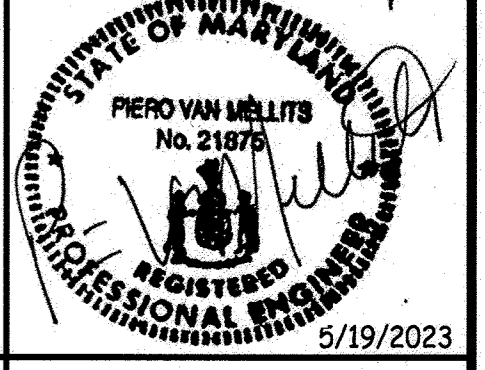
- Existing topography provided from aerial survey by McKenzie Snyder, Inc and field run survey by Century Engineering (dated April, 2022) and supplemented with best available Howard County GIS records and files from approved SDP-03-040, provided by Penoni.
- Forest stand treeline field located by Century Engineering in November, 2021.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS
11/1/23	JLA	R1-REV. ELECTRICAL LAYOUT/EQUIPMENT

CENTURY ENGINEERING
 A Kleinfelder Company
 16901 Melford Boulevard, Suite 120 Bowie, MD 20715
 Phone: 443.589.2400 www.centuryeng.com

EROSION & SEDIMENT CONTROL PLAN 4
Chaberton Solar Catherine
 14196 Frederick Road, Cookeville, MD
 Howard County, Maryland
 Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
 SDP #22-050

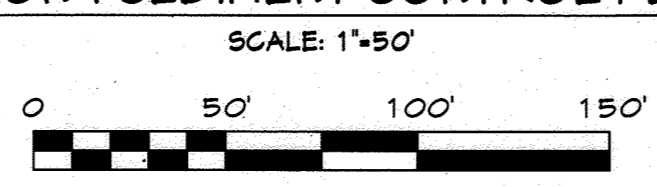
Piero Mellits
 APPLICANT/DEVELOPER:
 CHABERTON SOLAR CATHERINE LLC
 CHABERTON SOLAR CATHERINE ANEM LLC
 CHABERTON SOLAR BTM LLC
 1601 NEBATA STREET, SUITE 100
 DENVER, CO 80202
 ATTN: ADAM FARRINGTON, PROJ. MANAGER
 PHONE: (203) 554-5148
 EMAIL: afarrington@pivotenergy.net
 CURRENT OWNER:
 ST. MARY COPTIC ORTHODOX
 CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 COOKESVILLE, MD 21123
 PHONE: (410) 910-9220
 ENGINEER:
 CENTURY ENGINEERING LLC
 16401 MELFORD BLVD, SUITE 124
 BOWIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400
 EMAIL: pmellits@kleinfelder.com



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. 21875
 EXPIRATION DATE: 2/12/24

DRAWN BY: JLA
 DESIGN BY: JLA
 SCALE: AS SHOWN
 PROJECT No.: 211092.00

REVIEW BY: PYM
 REVIEW DATE: 5/19/2023
 DRAWING: 27 of 29
 SDP-22-050



Owners/Developer Certification:

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

Design Certification:

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

Owner/Developer Signature: Adam Farrington
 Date: 4/5/2023
 Printed Name & Title: Adam Farrington

Designer's Signature: Piero Mellits
 Date: 4-6-23
 Printed Name & Title: PIERO PETE MELLITS, PE
 MD Registration No. 21875
 (P.E. R.L.S., or R.L.A. (circle one))

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 Date: 6/1/2023
 Howard Soil Conservation District

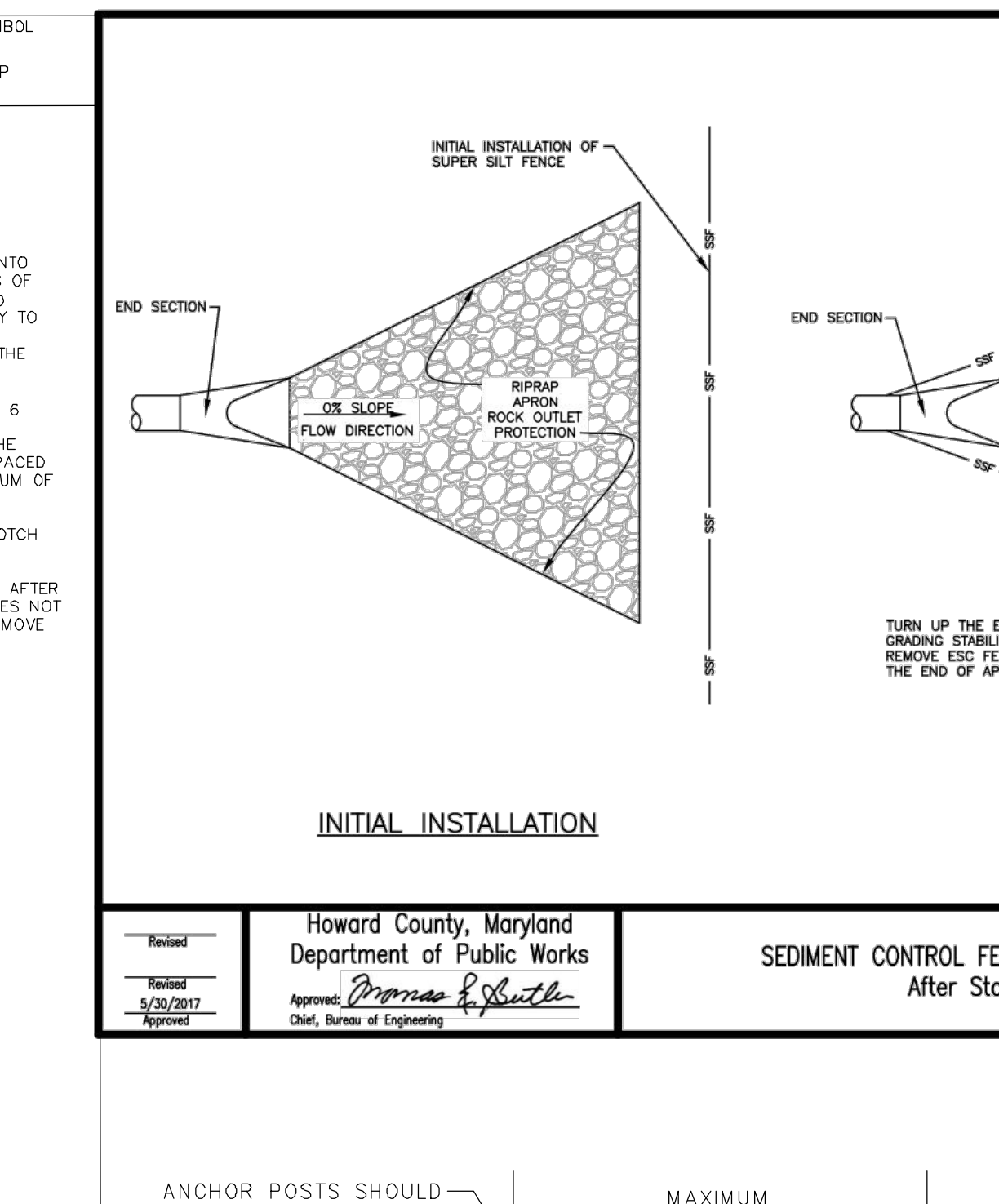
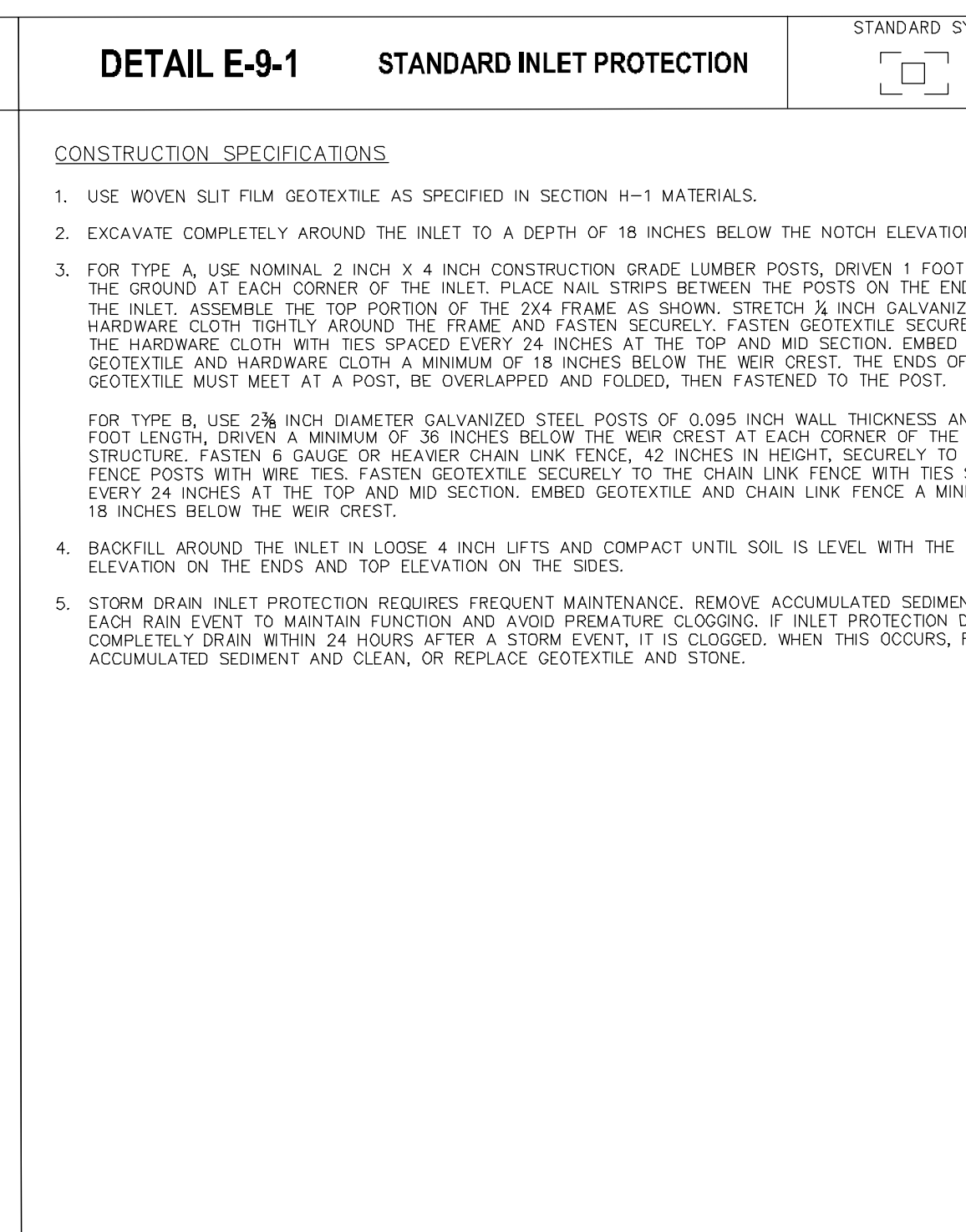
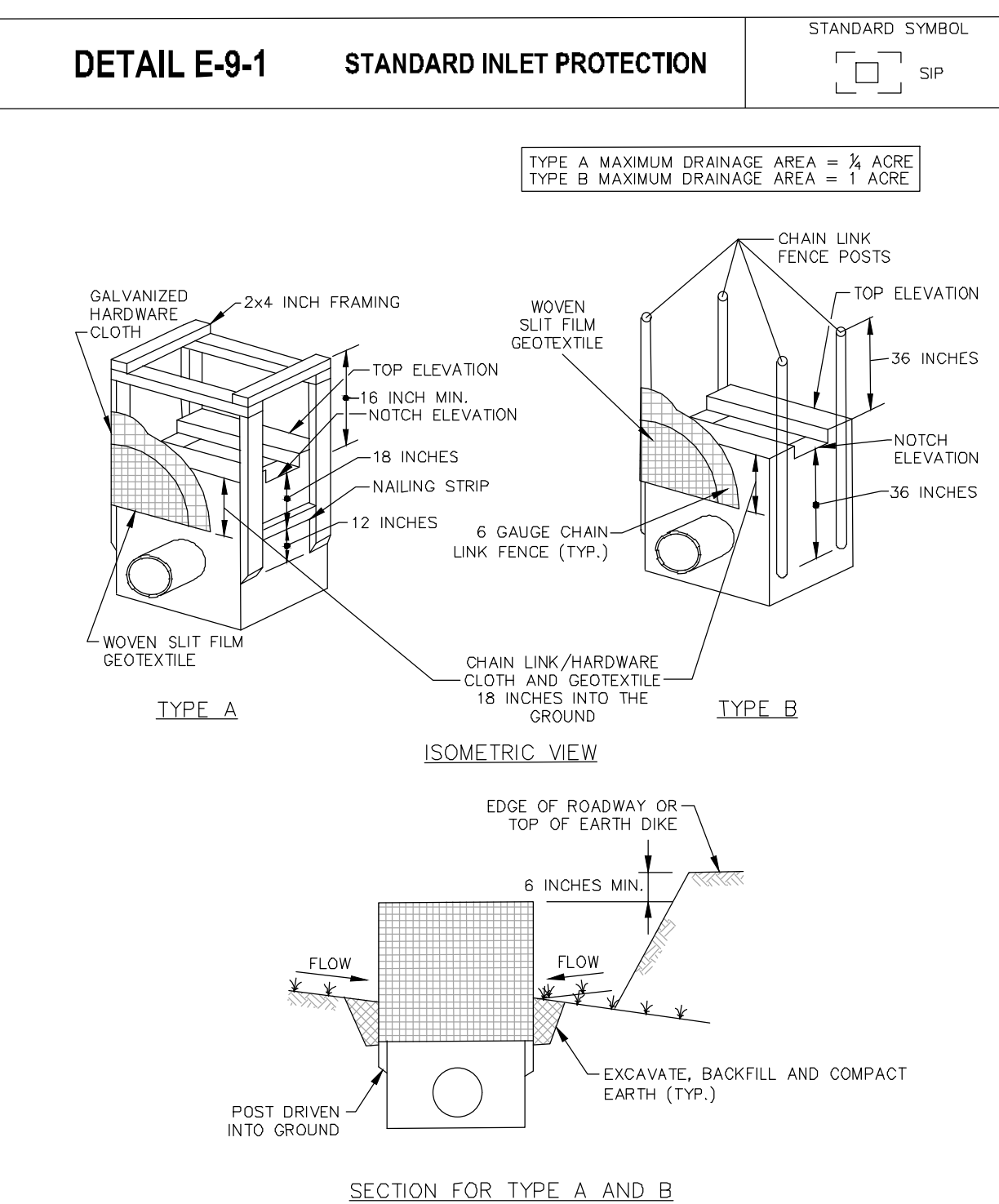
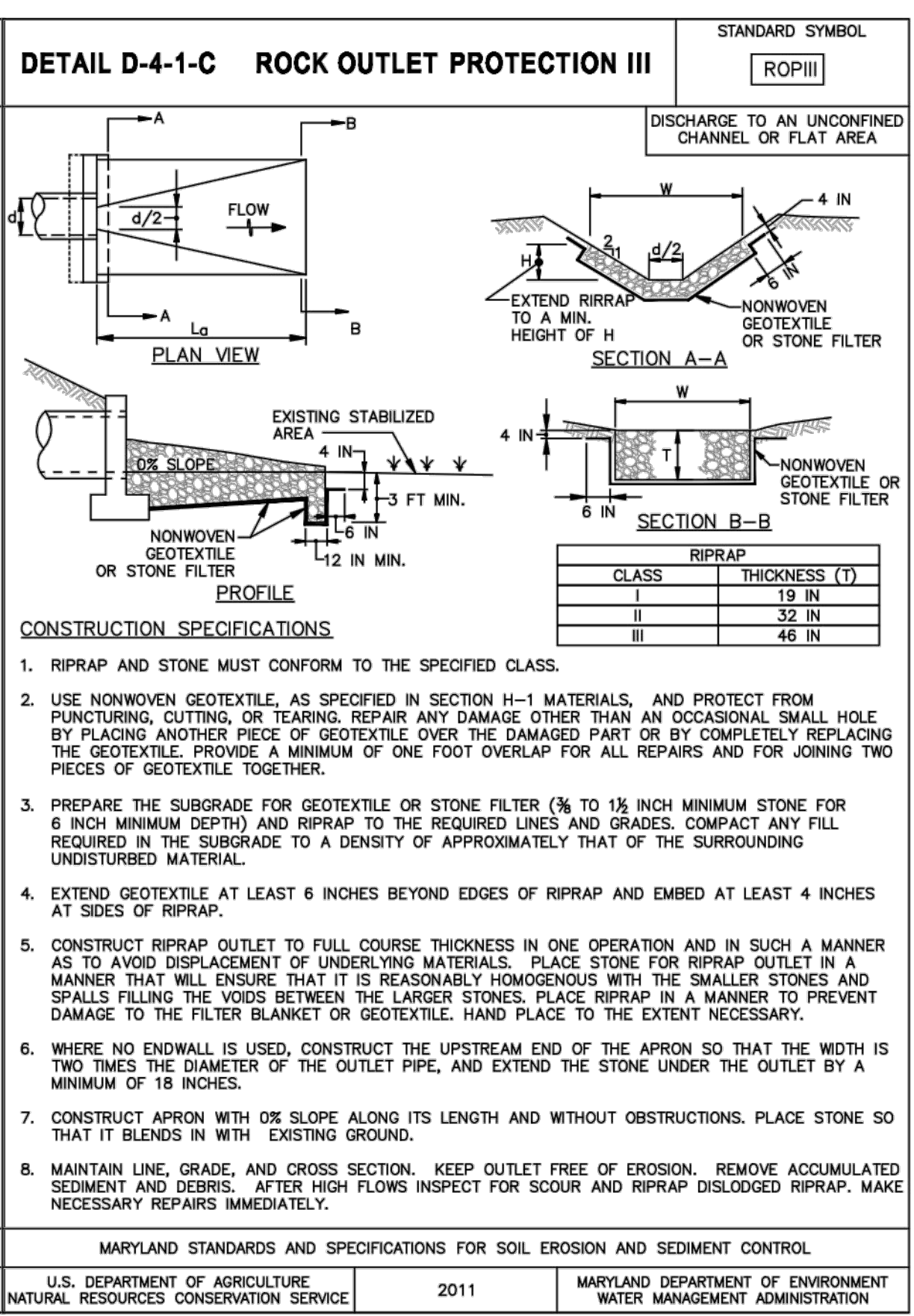
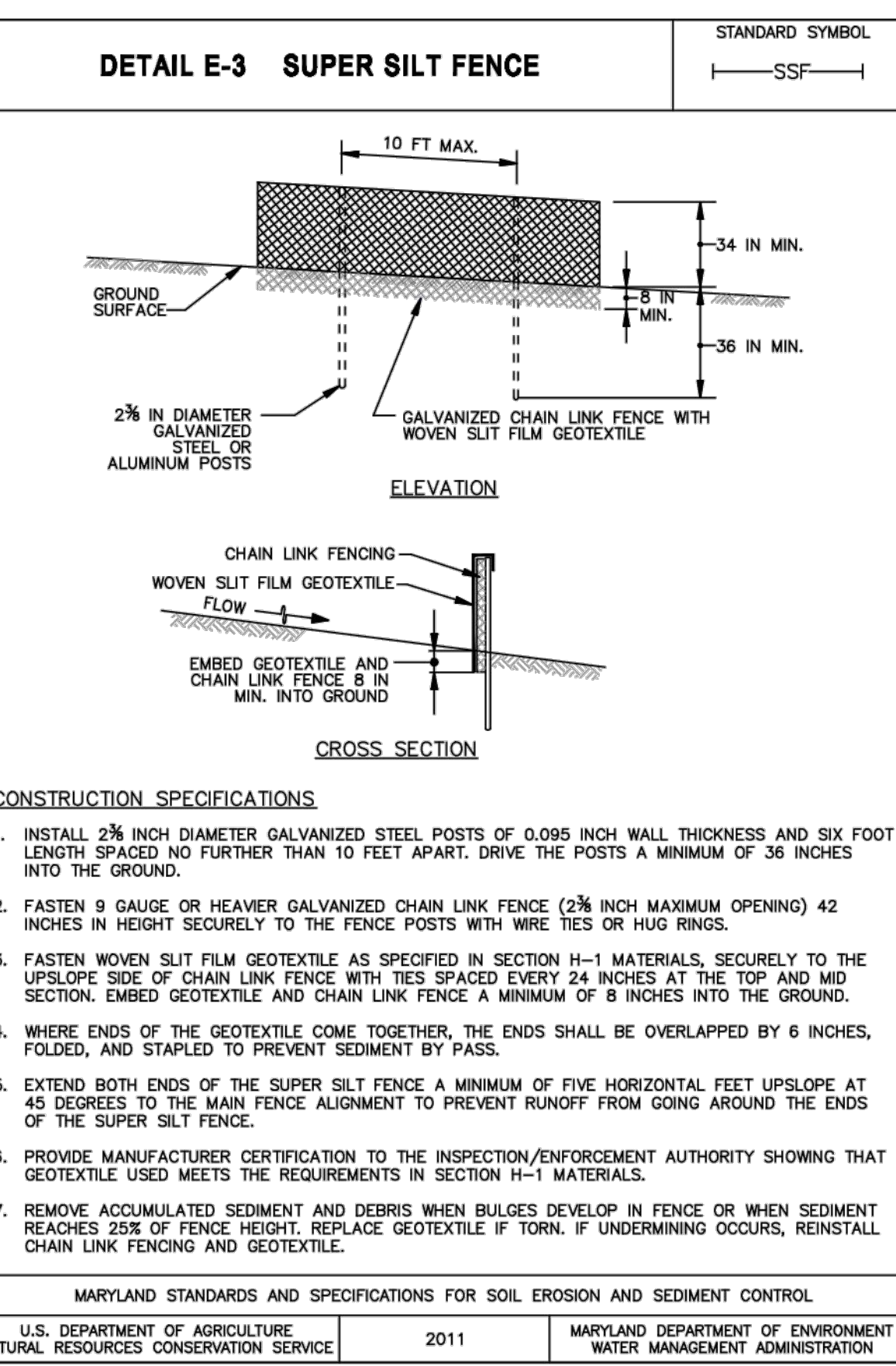
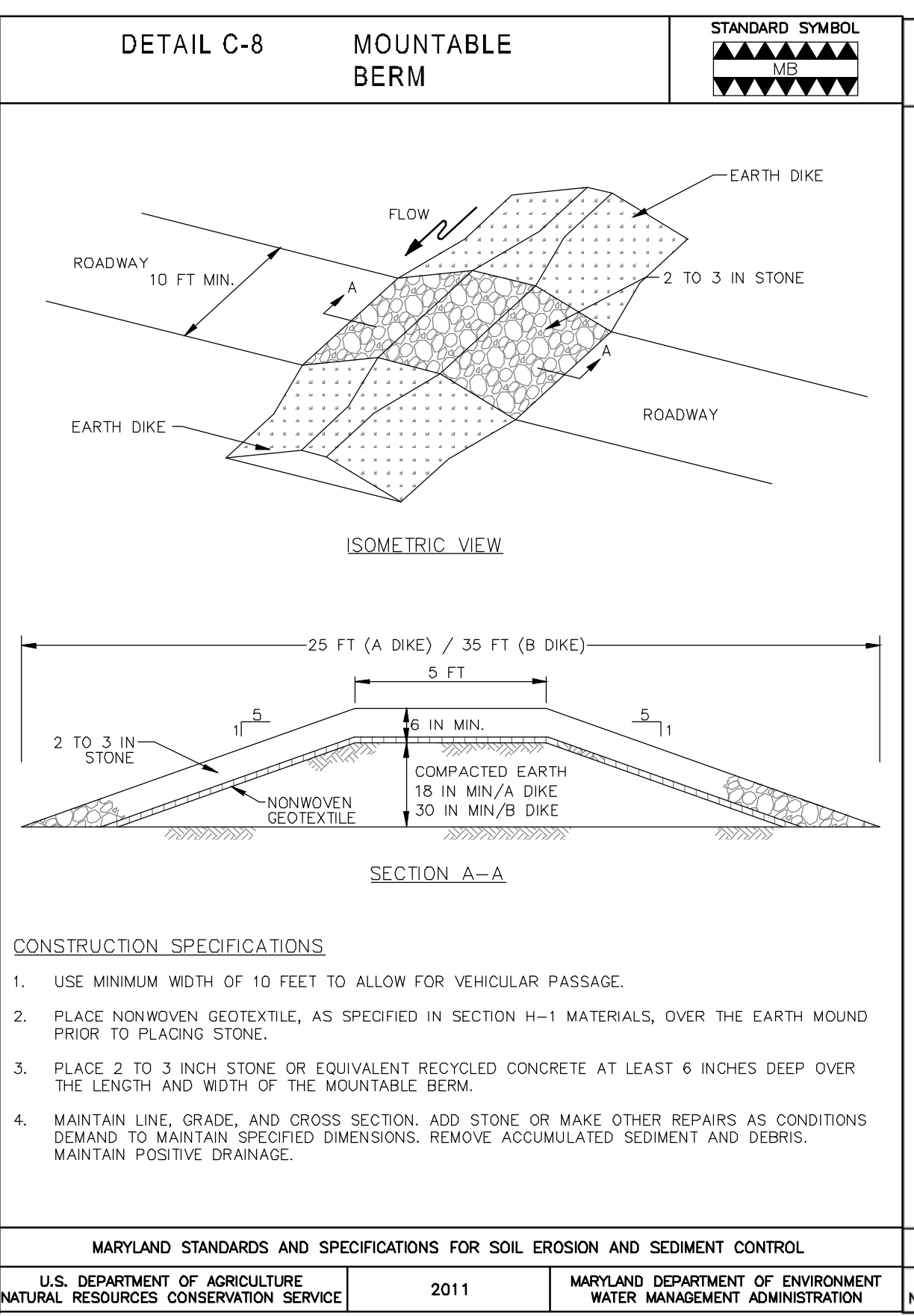
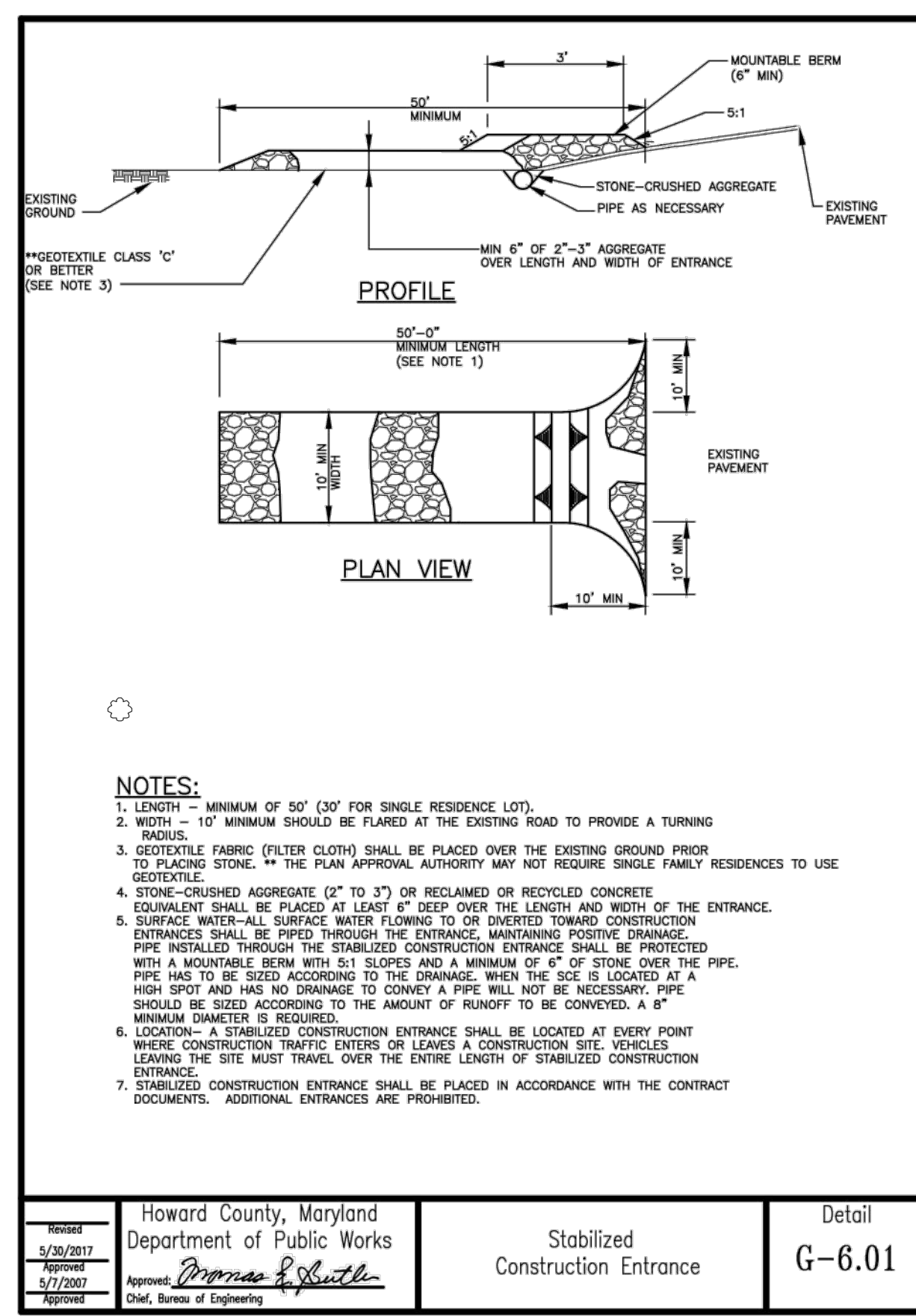
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Date: 5/31/2023
 Chief, Development Engineering: [Signature]

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 Date: 5/31/2023
 Chief, Division of Land Development: [Signature]

Date: 6/4/2023
 Director: [Signature]

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 Date: 5/31/2023
 County Health Officer: Michael J. Davis
 Date: [Blank]
 Howard County Health Department

T:\2021\Facilities\21104200 Project Catherine Solar Field Site\CADD Drawings\SDP Plans\21104200(SDP-22-05) Sediment Control Plan Notes & Details.dwg Apr 06, 2023 1:39pm janderson



SEQUENCE OF CONSTRUCTION

- Obtain Grading Permit.
- Notify Howard County Department of Public Works, Construction Inspection Division, (410) 313-4400 at least 48 hours before starting work.
- Contact Miss Utility at 1-800-257-7111 at least 3 days in advance of starting work shown on plans.
- Clear and grub for sediment & erosion control measures or devices only. (DURATION - 1 WEEK)
- Install sediment and erosion control measures and devices, including:
 - Stabilized Construction Entrance
 - Super Silt Fence. Double rows of super silt fence shall be installed at the direction of the Sediment Control Inspector.
 - Web protection
 - Immediately upon completion of installation, stabilize all disturbed areas with permanent seed and soil stabilization matting, seed & mulch or soil sodding. (DURATION - 1 WEEK)
- With the approval from the Sediment Control Inspector, clear and grub remainder of site. Contractor shall make daily inspections and maintain all sediment control measures as required including, but not limited to the removal of all accumulated sediment. (DURATION - 1 WEEK)
- Begin site grading as shown on the Grading Plans and install level spreaders. Begin installing solar panel foundations, solar panels, electrical equipment, etc. Per daily stabilization note, install landscaping and vehicle turn around areas as shown on plans. (DURATION - 3 MONTHS)
- Once all contributing drainage areas are completed and stabilized with established vegetation and with the approval of the Sediment Control Inspector, begin construction of stormwater management facilities, per the approved Stormwater Management Plans. (DURATION - 2 WEEKS)
- Once remaining areas are completed and stabilized with established vegetation and with approval of the Sediment Control Inspector, remove all remaining sediment control measures and stabilize those areas disturbed by this process. (DURATION - 1 WEEK)

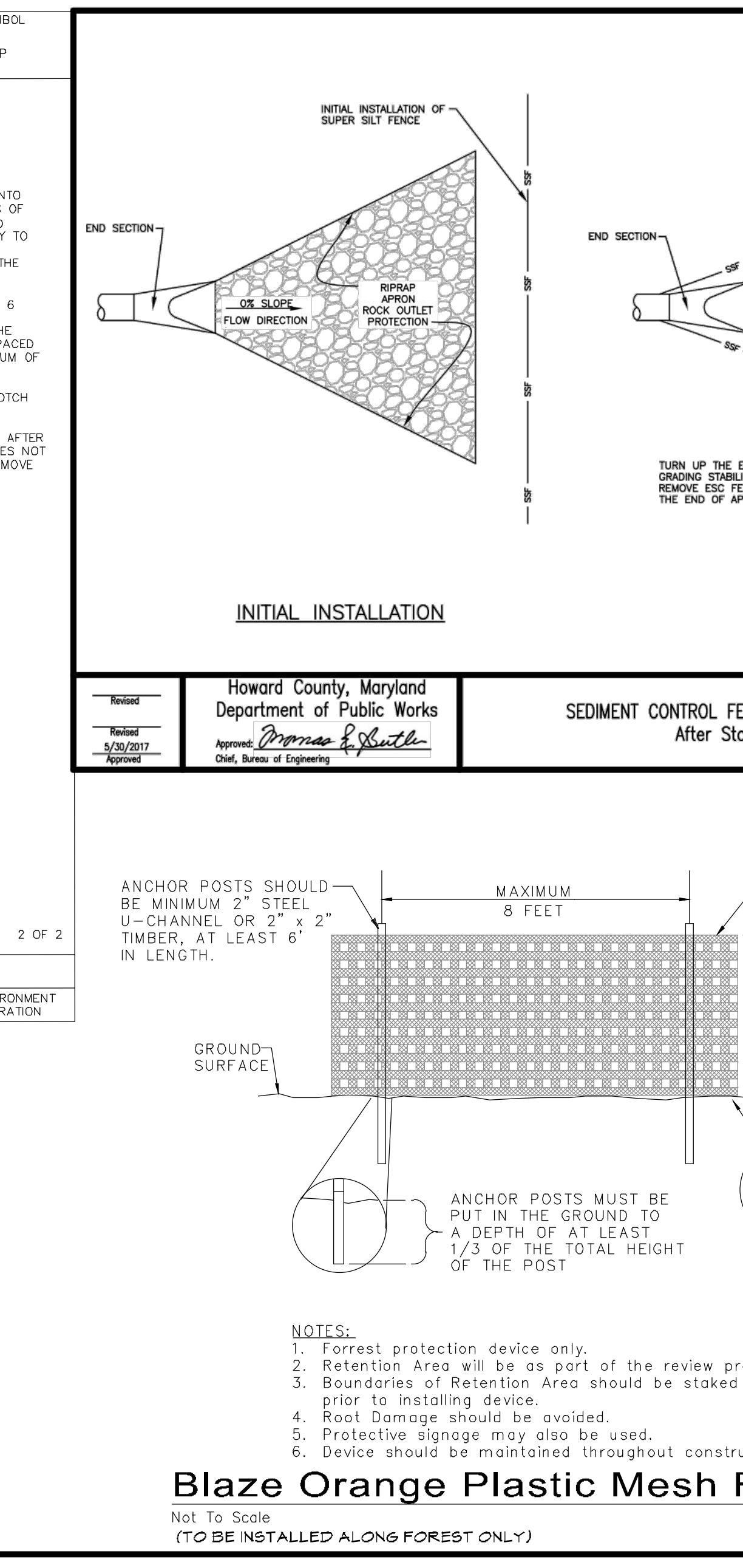
NOTES:

- LENGTH - MINIMUM OF 50' (30' FOR SINGLE RESIDENCE LOT).
- WIDTH - 10' MINIMUM SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. IN THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
- STONE-CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
- SURFACE WATER/ALSO SURFACE WATER FLOWING TO OR DIVERGED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE SHALL BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE PIPE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM DIAMETER IS REQUIRED.
- LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF STABILIZED CONSTRUCTION ENTRANCE.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ADDITIONAL ENTRANCES ARE PROHIBITED.

HOWARD COUNTY, MARYLAND Department of Public Works Approved: <i>Thomas S. Smith</i> Chief, Bureau of Engineering	Stabilized Construction Entrance	Detail G-6.01
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		

HOWARD COUNTY, MARYLAND Department of Public Works Approved: <i>Thomas S. Smith</i> Chief, Bureau of Engineering	Standard Inlet Protection	Detail D-5.53
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		

HOWARD COUNTY, MARYLAND Department of Public Works Approved: <i>Thomas S. Smith</i> Chief, Bureau of Engineering	Sediment Control Fence Reconfiguration After Stabilization	Detail D-5.53
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		



DATE	BY	REVISIONS

CENTURY ENGINEERING
A Kleinfelder Company

16901 Melford Boulevard, Suite 120 Bowie, MD 20715
Phone: 443.589.2400 www.centuryeng.com

EROSION & SEDIMENT CONTROL DETAILS

Chaberton Solar Catherine

14196 Frederick Road, Cookville, MD
Howard County, Maryland
Zone RC-DEO, Tax Map 8, Parcel 115, County Council District 5
SDP #22-050

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. 21875

EXPIRATION DATE: 2/12/24

4/5/2023

Piero Van Melle
REGISTERED PROFESSIONAL ENGINEER
No. 21875

DRAWN BY: JLA

DESIGN BY: JLA

SCALE: AS SHOWN

PROJECT No.: 21104200

REVIEW BY: PVM

REVIEW DATE: 4/5/2023

DRAWING: **28 of 29**

SDP-22-050

T:\2021\Facilities\211049200 Proj\ect, Catherine Solar, Field Site\GIS\CADD\Drawings\SDP Plans\211049200 (SDP-28-28-2) Sediment Control Plan Notes & Details.dwg Apr 06, 2023 1:13:49pm janderson

B-4-3 STANDARDS AND SPECIFICATIONS

B-4-5 STANDARDS AND SPECIFICATIONS

B-4-8 STANDARDS AND SPECIFICATIONS

B-4-2 STANDARDS AND SPECIFICATIONS

B-4-4 STANDARDS AND SPECIFICATIONS

FOR SEEDING AND MULCHING
Definition
The application of seed and mulch to establish vegetative cover.
Purpose
To protect disturbed soils from erosion during and at the end of construction.
Conditions Where Practice Applies
To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.
Criteria

- A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project.
b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen.
c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species.
d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

- B. Mulching
1. Mulch Materials (in order of preference)
a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color.
b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
c. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
d. WCFM material must not contain elements or compounds at concentration levels that will be phytotoxic.
e. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

- 2. Application
a. Apply mulch to all seeded areas immediately after seeding.
b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches.
c. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre.
d. Anchoring
a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water.
i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches.
ii. Wood cellulose fiber may be used for anchoring straw.
iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used.
iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering
Chief, Division of Land Development
Director

FOR PERMANENT STABILIZATION
Definition
To stabilize disturbed soils with permanent vegetation.
Purpose
To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.
Conditions Where Practice Applies
Exposed soils where ground cover is needed for 6 months or more.
Criteria

- A. Seed Mixtures
1. General Use
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2.
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.
d. For areas requiring low maintenance, apply area form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
2. Turfgrass Mixtures
a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
b. Select one or more of the species or mixtures listed below based on the site conditions or purpose.
i. Kentucky Bluegrass Full Sun Mixture: For use in areas that receive intensive management.
ii. Kentucky Bluegrass Perennial Ryegrass: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management.
iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade.
iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns.

- c. Ideal Times of Seeding for Turf Grass Mixtures
Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)
Southern MD: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 6b)
Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)
d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed.
e. If soil moisture is deficient, supply new seedlings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established.
B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

Permanent Seeding Summary
Table with columns: No., Species, Application Rate (lb/acre), Seeding Dates, Seeding Depths, N, P2O5, K2O, Lime Rate.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
Michael J. Davis
County Health Officer
Howard County Health Department

FOR STOCKPILE AREA
Definition
A mound or pile of soil protected by appropriately designed erosion and sediment control measures.
Purpose
To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.
Conditions Where Practice Applies
Stockpile areas are utilized when it is necessary to salvage and store soil for later use.
Criteria

- 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access the stockpile area from the upgrade side.
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence.
6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup.

Maintenance
The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio.

STANDARD SEDIMENT CONTROL NOTES
1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-913-1855 after the future LOD and protected areas are marked clearly in the field.
a. Prior to the start of earth disturbance.
b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading.
c. Prior to the start of another phase of construction or opening of another grading unit.
d. Prior to the removal or modification of sediment control practices.

- 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 1:1 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading.
4. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3).
5. All sediment control structures are to be retained in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.
6. Site Analysis:
Total Area of Site: 66.1 Acres
Area Disturbed: 18.1 Acres
Area to be roofed or paved: 0.2 Acres
Area to be vegetatively stabilized: 13.4 Acres
Total Cut: 8,780 Cu. Yds.
Total Fill: 8,780 Cu. Yds.
Offsite waste/borrow area location: N/A

- 7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly, and the next day after each rain event.
9. Soil Amendments (Fertilizer and Lime Specifications)
a. Erosion and sediment control practices must be maintained when applying topsoil.
b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches.
c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction.

- 11. Disturbance shall not occur outside the LOD. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time.
12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.
13. Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade.
14. All Silt Fence and Super Silt Fence shall be placed on the contour, or be imbricated at 25' maximum intervals, with lower ends curved uphill by 2' in elevation.
15. Stream channels must not be disturbed during the following restricted time periods (inclusive):
16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS
Definition
The process of preparing the soils to sustain adequate vegetative stabilization.
Purpose
To provide a suitable soil medium for vegetative growth.
Conditions Where Practice Applies
Where vegetative stabilization is to be established.
Criteria

- A. Soil Preparation
1. Temporary Stabilization
a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment.
b. Apply fertilizer and lime as prescribed on the plans.
c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Stabilization
a. A soil test is required for any earth disturbance of 5 acres or more.
i. Soil pH between 6.0 and 7.0.
ii. Soluble salts less than 500 parts per million (ppm).
iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture.
iv. Soil contains 1.5 percent minimum organic matter by weight.
v. Soil contains sufficient pore space to permit adequate root penetration.
b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means.

- B. Topsoiling
1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation.
2. Topsoil salvaged from an existing site may be provided if it meets the standards as set forth in these specifications.
3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
c. The original soil to be treated contains material toxic to plant growth.
d. The soil is so acidic that vegetation with limestone is not feasible.
4. Areas having slopes steeper than 2:1 require special consideration and design.
5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand.
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
c. The original soil to be treated contains material toxic to plant growth.
d. The soil is so acidic that vegetation with limestone is not feasible.
6. Topsoil Application
a. Erosion and sediment control practices must be maintained when applying topsoil.
b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches.
c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
7. Soil Amendments (Fertilizer and Lime Specifications)
a. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more.
b. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment.
c. Lime materials must be ground limestone (hydrated or burnt lime) but substituted except when hydroseeding which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide).
d. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
e. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

Owners/Developer Certification:
I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project.
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.

Howard Soil Conservation District
Alexander Bratley 4/5/2023
Date
Piero Mellits
Piero Mellits, PE
Piero Mellits

FOR TEMPORARY STABILIZATION
Definition
To stabilize disturbed soils with vegetation for up to 6 months.
Purpose
To use fast growing vegetation that provides cover on disturbed soils.
Conditions Where Practice Applies
Exposed soils where ground cover is needed for a period of 6 months or less.
Criteria

- 1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths.
2. For sites having soil tests performed, use and show the recommended rates by the testing agency.
3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4.3.A.1.b and maintain until the next seeding season.

Temporary Seeding Summary

Table with columns: No., Species, Application Rate (lb/acre), Seeding Dates, Seeding Depths, Fertilizer Rate (10-20-20), Lime Rate.

Table B.5: Recommended Planting Date for Permanent Cover in Maryland

Table with columns: Type of Plant Material, Plant Hardiness Zones (5b and 6a, 6b, 7a and 7b).

Table with columns: DATE, BY, REVISIONS.

CENTURY ENGINEERING
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SCALE: AS SHOWN
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STATE OF MARYLAND
Piero Mellits, PE
REGISTERED PROFESSIONAL ENGINEER
No. 21875
EXPIRES 4/5/2023
REVIEW BY: PVM
REVIEW DATE: 4/5/2023
SDP-22-050