

- GENERAL NOTES**
- OVERALL PROPERTY AREA = 56.3 ACRES
 - DEVELOPMENT AREA = 28.2 ACRES
 - ZONING: RURAL RESIDENTIAL - DENSITY EXCHANGE OPTION (RR-DEO)
SOLAR IS NOT A PERMITTED USE, CONDITIONAL USE ONLY
NOTE: ALL ADJACENT PROPERTIES ARE ZONED RR-DEO
 - CURRENT USE: AGRICULTURAL/OPEN LAND
PROPOSED USE: OPEN LAND/SOLAR FACILITY
 - DEED BOOK/PAGE: 95 14 / 182
 - COUNTY COUNCIL DISTRICT: 5
 - MAP/GRID/PARCEL: 48 01 11 02
 - TAX ACCOUNT NO.: 05-3 108 17
 - SUBDIVISION NAME: N/A
 - LOCAL COMMUNITY: FULTON
 - THIS PROPERTY IS SUBJECT TO THE HOWARD COUNTY CASE BA-21-0406 TO ALLOW THE CONDITIONAL USE FOR A COMMERCIAL SOLAR FACILITY AND WAS APPROVED ON APRIL 5, 2022 WITH THE FOLLOWING CONDITIONS:
 - 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 REVISED CONDITIONAL USE PLAN DATED JANUARY 14, 2022, AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.
 - THE PETITIONER SHALL COMPLY WITH ALL CONDITIONAL USE STANDARDS.
 - THE SITE DEVELOPMENT PLAN, OR ITS EQUIVALENT, SHALL INCLUDE A NOTE CONTAINING ALL CONDITIONS OF APPROVAL.
 - THE SYSTEMS SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND PROVISIONS.
 - ANY SOLAR COLLECTOR FACILITY THAT IS NO LONGER USED SHALL BE REMOVED BY THE PROPERTY OWNER FROM THE PROPERTY WITHIN SIX MONTHS OF THE DATE THAT THE USE CEASES.
 - THE PREMISES SHALL BE MAINTAINED AT ALL TIMES IN A CLEAN AND ORDERLY CONDITION, INCLUDING THE CARE OR REPLACEMENT OF PLANT MATERIALS REQUIRED IN THE LANDSCAPING PLAN. THE RESPONSIBILITY FOR COMPLIANCE WITH THIS PROVISION SHALL BE WITH ALL PARTIES HAVING A LEASE OR OWNERSHIP INTEREST IN THE SOLAR COLLECTOR FACILITY. THE PETITIONER SHALL PROVIDE THE HEARING AUTHORITY WITH DETAILS REGARDING MAINTENANCE AND ACCESS FOR THE SUBJECT PROPERTY.
 - THE PETITIONER SHALL REGISTER ALL SOLAR COLLECTORS WITH THE DEPARTMENT OF FIRE AND RESCUE SERVICES. THE REGISTRATION SHALL INCLUDE A MAP OF THE SOLAR COLLECTOR FACILITY NOTING THE LOCATION OF THE SOLAR COLLECTORS AND THE PANEL DISCONNECT.
 - TREE REMOVAL SHALL BE MINIMIZED, AND REFORESTATION SHALL BE DONE IN ACCORDANCE WITH SECTION 16.1026 OF THE HOWARD COUNTY CODE.
 - ALL REQUIRED LANDSCAPING SHALL BE PROVIDED WITHIN 6 MONTHS OF INSTALLATION OF THE SOLAR PANELS.

ENVIRONMENTAL CONCEPT PLAN CHABERTON SOLAR LIME KILN

INDEX OF SHEET

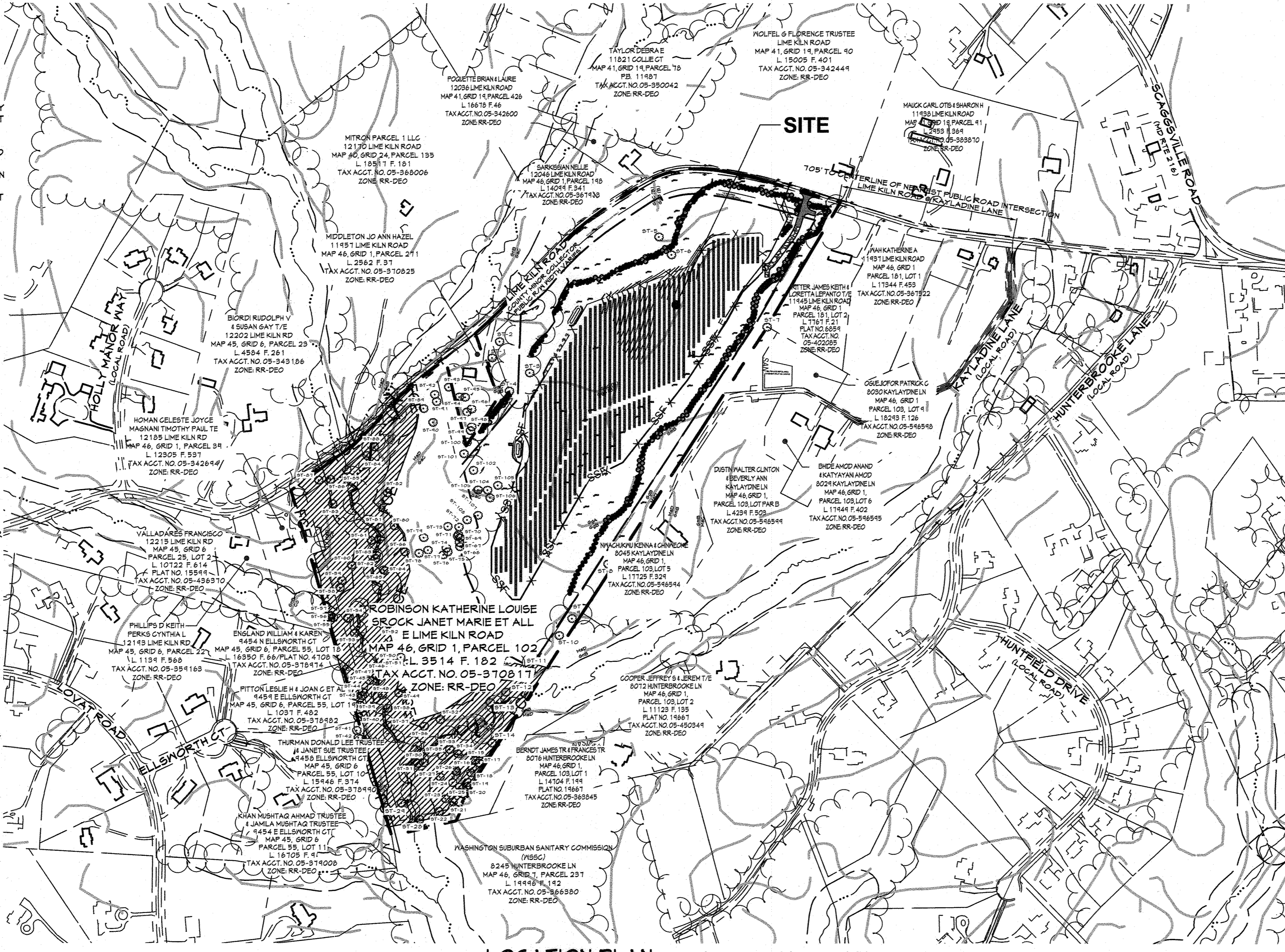
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HOWARD COUNTY GIS DATA, ADC MAP COORDINATES 905286 NEAREST GEODETTIC CONTROL POINTS 0014 AND 416E

VICINITY MAP

SCALE: 1" = 2000'



LOCATION PLAN
SCALE: 1" = 300'

TABLE 1: SPECIMEN TREE TABLE (≥30")

Number	Species	DBH	Condition	Number	Species	DBH	Condition
ST-1	Tulip tree (<i>Liriodendron tulipifera</i>)	35.7	Good	ST-54	Tulip tree (<i>Liriodendron tulipifera</i>)	34	Fair
ST-2	Tulip tree (<i>Liriodendron tulipifera</i>)	37.5	Good	ST-55	Tulip tree (<i>Liriodendron tulipifera</i>)	44.2	Fair
ST-3	Tulip tree (<i>Liriodendron tulipifera</i>)	35.4	Fair	ST-56	Tulip tree (<i>Liriodendron tulipifera</i>)	36	Fair
ST-4	Tulip tree (<i>Liriodendron tulipifera</i>)	32.9	Fair	ST-57	White oak (<i>Quercus alba</i>)	44	Poor
ST-5	Black walnut (<i>Juglans nigra</i>)	54.7	Poor	ST-58	Tulip tree (<i>Liriodendron tulipifera</i>)	33.3	Good
ST-6	Black walnut (<i>Juglans nigra</i>)	34.1	Poor	ST-59	Tulip tree (<i>Liriodendron tulipifera</i>)	31.5	Good
ST-7	Black cherry (<i>Prunus serotina</i>)	40.6	Poor	ST-60	Tulip tree (<i>Liriodendron tulipifera</i>)	33.5	Good
ST-8	Black cherry (<i>Prunus serotina</i>)	30	Fair	ST-61	Tulip tree (<i>Liriodendron tulipifera</i>)	37.6	Good
ST-9	Tulip tree (<i>Liriodendron tulipifera</i>)	33.2	Fair	ST-62	American sycamore (<i>Platanus occidentalis</i>)	36.3	Fair
ST-10	Tulip tree (<i>Liriodendron tulipifera</i>)	55	Fair	ST-63	American sycamore (<i>Platanus occidentalis</i>)	31	Fair
ST-11	Tulip tree (<i>Liriodendron tulipifera</i>)	35	Poor	ST-64	Tulip tree (<i>Liriodendron tulipifera</i>)	49	Fair
ST-12	Tulip tree (<i>Liriodendron tulipifera</i>)	41	Good	ST-65	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Good
ST-13	Pignut hickory (<i>Carya glabra</i>)	38	Fair	ST-66	Northern red oak (<i>Quercus rubra</i>)	41.7	Good
ST-14	Tulip tree (<i>Liriodendron tulipifera</i>)	37.6	Fair	ST-67	Tulip tree (<i>Liriodendron tulipifera</i>)	32.5	Good
ST-15	White oak (<i>Quercus alba</i>)	34.4	Fair	ST-68	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Good
ST-16	Tulip tree (<i>Liriodendron tulipifera</i>)	32	Fair	ST-69	Tulip tree (<i>Liriodendron tulipifera</i>)	33	Good
ST-17	Tulip tree (<i>Liriodendron tulipifera</i>)	35	Good	ST-70	Tulip tree (<i>Liriodendron tulipifera</i>)	34	Good
ST-18	Tulip tree (<i>Liriodendron tulipifera</i>)	34.5	Good	ST-71	Northern red oak (<i>Quercus rubra</i>)	31	Good
ST-19	Tulip tree (<i>Liriodendron tulipifera</i>)	35.4	Good	ST-72	Tulip tree (<i>Liriodendron tulipifera</i>)	34.5	Good
ST-20	Tulip tree (<i>Liriodendron tulipifera</i>)	33.5	Good	ST-73	Tulip tree (<i>Liriodendron tulipifera</i>)	36.8	Good
ST-21	Tulip tree (<i>Liriodendron tulipifera</i>)	34	Good	ST-74	Northern red oak (<i>Quercus rubra</i>)	37.5	Good
ST-22	Tulip tree (<i>Liriodendron tulipifera</i>)	44.5	Fair	ST-75	Tulip tree (<i>Liriodendron tulipifera</i>)	36.5	Good
ST-23	Tulip tree (<i>Liriodendron tulipifera</i>)	31.2	Poor	ST-76	Tulip tree (<i>Liriodendron tulipifera</i>)	35	Good
ST-24	Tulip tree (<i>Liriodendron tulipifera</i>)	41.3	Good	ST-77	Tulip tree (<i>Liriodendron tulipifera</i>)	31	Fair
ST-25	Tulip tree (<i>Liriodendron tulipifera</i>)	35	Fair	ST-78	Tulip tree (<i>Liriodendron tulipifera</i>)	42.4	Fair
ST-26	Tulip tree (<i>Liriodendron tulipifera</i>)	32.5	Fair	ST-79	Tulip tree (<i>Liriodendron tulipifera</i>)	39	Good
ST-27	Tulip tree (<i>Liriodendron tulipifera</i>)	47.5	Good	ST-80	Red maple (<i>Acer rubrum</i>)	33.4	Fair
ST-28	American sycamore (<i>Platanus occidentalis</i>)	50	Fair	ST-81	Tulip tree (<i>Liriodendron tulipifera</i>)	42	Fair
ST-29	American sycamore (<i>Platanus occidentalis</i>)	31.5	Good	ST-82	Tulip tree (<i>Liriodendron tulipifera</i>)	49.7	Poor
ST-30	Tulip tree (<i>Liriodendron tulipifera</i>)	40	Fair	ST-83	Tulip tree (<i>Liriodendron tulipifera</i>)	42.4	Fair
ST-31	American sycamore (<i>Platanus occidentalis</i>)	44	Fair	ST-84	Tulip tree (<i>Liriodendron tulipifera</i>)	37	Good
ST-32	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Good	ST-85	Tulip tree (<i>Liriodendron tulipifera</i>)	40.8	Fair
ST-33	Tulip tree (<i>Liriodendron tulipifera</i>)	41	Fair	ST-86	Northern red oak (<i>Quercus rubra</i>)	35	Good
ST-34	Tulip tree (<i>Liriodendron tulipifera</i>)	31.2	Poor	ST-87	Northern red oak (<i>Quercus rubra</i>)	32.5	Good
ST-35	Tulip tree (<i>Liriodendron tulipifera</i>)	34.2	Fair	ST-88	Northern red oak (<i>Quercus rubra</i>)	33.5	Good
ST-36	American sycamore (<i>Platanus occidentalis</i>)	30.4	Good	ST-89	Northern red oak (<i>Quercus rubra</i>)	33	Good
ST-37	Tulip tree (<i>Liriodendron tulipifera</i>)	37.3	Good	ST-90	White oak (<i>Quercus alba</i>)	38	Good
ST-38	Tulip tree (<i>Liriodendron tulipifera</i>)	34.5	Good	ST-91	Tulip tree (<i>Liriodendron tulipifera</i>)	34	Good
ST-39	Tulip tree (<i>Liriodendron tulipifera</i>)	35.8	Good	ST-92	Tulip tree (<i>Liriodendron tulipifera</i>)	36	Good
ST-40	Black walnut (<i>Juglans nigra</i>)	35.8	Good	ST-93	Tulip tree (<i>Liriodendron tulipifera</i>)	36	Good
ST-41	Tulip tree (<i>Liriodendron tulipifera</i>)	30.4	Good	ST-94	Tulip tree (<i>Liriodendron tulipifera</i>)	33	Good
ST-42	Black walnut (<i>Juglans nigra</i>)	39.4	Poor	ST-95	White oak (<i>Quercus alba</i>)	38	Good
ST-43	Tulip tree (<i>Liriodendron tulipifera</i>)	32.1	Fair	ST-96	Tulip tree (<i>Liriodendron tulipifera</i>)	34	Good
ST-44	Tulip tree (<i>Liriodendron tulipifera</i>)	35.5	Good	ST-97	Tulip tree (<i>Liriodendron tulipifera</i>)	36	Good
ST-45	American sycamore (<i>Platanus occidentalis</i>)	36	Fair	ST-98	Tulip tree (<i>Liriodendron tulipifera</i>)	43.3	Good
ST-46	American sycamore (<i>Platanus occidentalis</i>)	32	Good	ST-99	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Fair
ST-47	American sycamore (<i>Platanus occidentalis</i>)	30	Fair	ST-100	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Good
ST-48	American sycamore (<i>Platanus occidentalis</i>)	58	Fair	ST-101	Tulip tree (<i>Liriodendron tulipifera</i>)	36.5	Good
ST-49	Northern red oak (<i>Quercus rubra</i>)	30	Fair	ST-102	Tulip tree (<i>Liriodendron tulipifera</i>)	32	Good
ST-50	Tulip tree (<i>Liriodendron tulipifera</i>)	38.5	Good	ST-103	Tulip tree (<i>Liriodendron tulipifera</i>)	31.5	Poor
ST-51	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Good	ST-104	Tulip tree (<i>Liriodendron tulipifera</i>)	32	Good
ST-52	Tulip tree (<i>Liriodendron tulipifera</i>)	32.7	Good	ST-105	American sycamore (<i>Platanus occidentalis</i>)	33.5	Fair
ST-53	Tulip tree (<i>Liriodendron tulipifera</i>)	35	Fair	ST-106	Tulip tree (<i>Liriodendron tulipifera</i>)	43	Fair
				ST-107	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Fair
				ST-108	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Good

NOTE: ALL EXISTING SPECIMEN TREES ON-SITE ARE TO REMAIN

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

DATA SOURCE

- Existing topography provided from best available Howard County GIS records.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

STORMWATER MANAGEMENT PRACTICES

PARCEL	ADDRESS	BIORETENTION (F-6) (QUANTITY)
102	1195 LIME KILN ROAD	2

STORMWATER MANAGEMENT INFORMATION

PARCEL	FACILITY NAME & NUMBER	PRACTICE TYPE	PUBLIC	PRIVATE
102	SWM-1	F-6	NO	YES
102	SWM-2	F-6	NO	YES

SITE ANALYSIS DATA:

SITE AREA = 56.3 Ac.
WETLANDS = 0.2 Ac. (0.0 Ac. within project area)
WETLANDS (BUFFER) = 0.3 Ac. (0.0 Ac. within project area)
FLOODPLAIN (BUFFER) = 0.0 Ac.
FOREST = 22.6 Ac. (0.0 Ac. within project area)
SLOPES 15% - 24.9% = 6.2 Ac. (1.0 Ac. within project area)
STEEP SLOPES > 25% = 2.5 Ac. (0.0 Ac. within project area)
ERODIBLE SOILS = 56.3 Ac. (28.2 Ac. within project area)

TOTAL PROJECT AREA = 28.2 Ac.
LOD AREA = 15.4 Ac.
PROPOSED SITE USES = SOLAR
PROP. GREEN OPEN AREA = 1.1 Ac. (28.0 Ac. within project area)
PROP. IMPERVIOUS AREA = 0.2 Ac. (0.2 Ac. within project area)

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE: 8/31/22
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] DATE: 8/24/22
 CHIEF, DIVISION OF LAND DEVELOPMENT

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

- Proposed Conditional Use (CU) Area
- Proposed Easement
- 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 Asphalt Paving

ECP DESIGN NARRATIVE

THE PROPOSED SOLAR ARRAY PROJECT AREA CONSISTS OF 28.2 ACRES. THE SOLAR ARRAY FACILITY HAS BEEN DESIGNED TO MINIMIZE GRADING AND ENVIRONMENTAL AREA DISTURBANCE WITHIN THE PROPOSED LIMIT OF DISTURBANCE OF 15.4 ACRES. THE PROPOSED DEVELOPMENT HAS BEEN DESIGNED TO AVOID ANY DISTURBANCE OF ALL STREAMS, WETLANDS, STEEP SLOPES, EXISTING SPECIMEN TREES OR THEIR CRITICAL ROOT ZONES ON-SITE.

FOREST CONSERVATION NOTE:

FOREST CONSERVATION OBLIGATIONS WILL BE MET ON-SITE, IN ACCORDANCE WITH THE HOWARD COUNTY FOREST CONSERVATION MANUAL AND SECTION 16.1204 OF THE HOWARD COUNTY CODE.

STORMWATER MANAGEMENT (ESD) DESIGN NARRATIVE

ALL ESD FACILITIES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE STORMWATER MANAGEMENT ACT OF 2001, THE 2000 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, AS REVISED AND HOWARD COUNTY REGULATIONS.

SEDIMENT CONTROL NARRATIVE

- MINIMAL GRADING PROPOSED FOR SOLAR ARRAY FACILITY. AREAS WITHIN THE FENCE LINE THAT DO NOT HAVE ANY PROPOSED GRADING WILL INCLUDE DISTURBANCE TO TURN THE TOPSOIL AND PLANT A POLLINATOR FRIENDLY SEED MIX ONLY. THE AREAS WILL BE RETURNED TO PRE-DEVELOPMENT CONDITIONS.
- STABILIZED CONSTRUCTION ENTRANCE PROPOSED AT SITE ACCESS ALONG LIME KILN ROAD.
- ALL AREAS NOTED AS SAME-DAY STABILIZATION SHALL BE COMPLETED AND STABILIZED BY THE END OF EACH WORK DAY.
- LIMIT OF DISTURBANCE TO BE WRAPPED WITH SUPER SILT FENCE TO PROTECT DOWNSTREAM UNDISTURBED AREAS.
- ALL EXISTING FOREST ADJACENT TO DEVELOPMENT TO BE PROTECTED WITH TREE PROTECTION FENCE.

SOIL PROPERTIES

SYMBOL	DESCRIPTION	K-FACTOR	ERODIBLE	HYDRIC	HSG	DRAINAGE CLASS
Co	Codorus and Hatboro Silt Loams, 0-3% slopes	0.37	YES	YES	HSG 'C'	MODERATELY WELL DRAINED
GaC	Galla Loam, 8-15% slopes	0.55	YES	NO	HSG 'B'	MODERATELY WELL DRAINED
GgA	Glennville Loam, 0-3% slopes	0.24	YES	NO	HSG 'B'	WELL DRAINED
GgB	Glennville Loam, 3-8% slopes	0.24	YES	NO	HSG 'B'	WELL DRAINED
GmB	Glennville Silt Loam, 3-8% slopes	0.37	YES	NO	HSG 'C/D'	MODERATELY WELL DRAINED
MaD	Manor Loam, 15-25% slopes	0.28	YES	NO	HSG 'B'	WELL DRAINED

SOIL DATA OBTAINED FROM NRC'S WEB SOIL SURVEY MAPPING.

CURRENT DPZ FILE(S):

CASE NO. BA-21-0406 - CONDITIONAL USE
PETITION FOR COMMERCIAL GROUND MOUNT
SOLAR COLLECTOR FACILITY (SECTION 13.1.0.N.8.2)

COVER SHEET

CHABERTON SOLAR LIME KILN
 Lime Kiln Road, Fulton, MD
 Howard County, Maryland
 Parcel: 0102 TM: 00460001002 Zone: RR-DEO
 Election District 5, Tax Map 46, Grid 01, Parcel 102

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: 2/12/2024

DRAWN BY: JLA	REVIEW BY: PVM
DESIGN BY: JLA	REVIEW DATE: 06-07-2022
SCALE: AS SHOWN	DRAWING: 1 of 9
PROJECT No.: 211182.00	

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
- OHE Existing Overhead Electric
- E Existing Buried Electric
- Existing Utility Pole
- X-X-X Existing Fence Line
- Soil Line
- SN Existing Sanitary Sewer
- Existing Well
- Existing Steep Slope Areas 15%-25%
- Existing Steep Slope Areas >25%

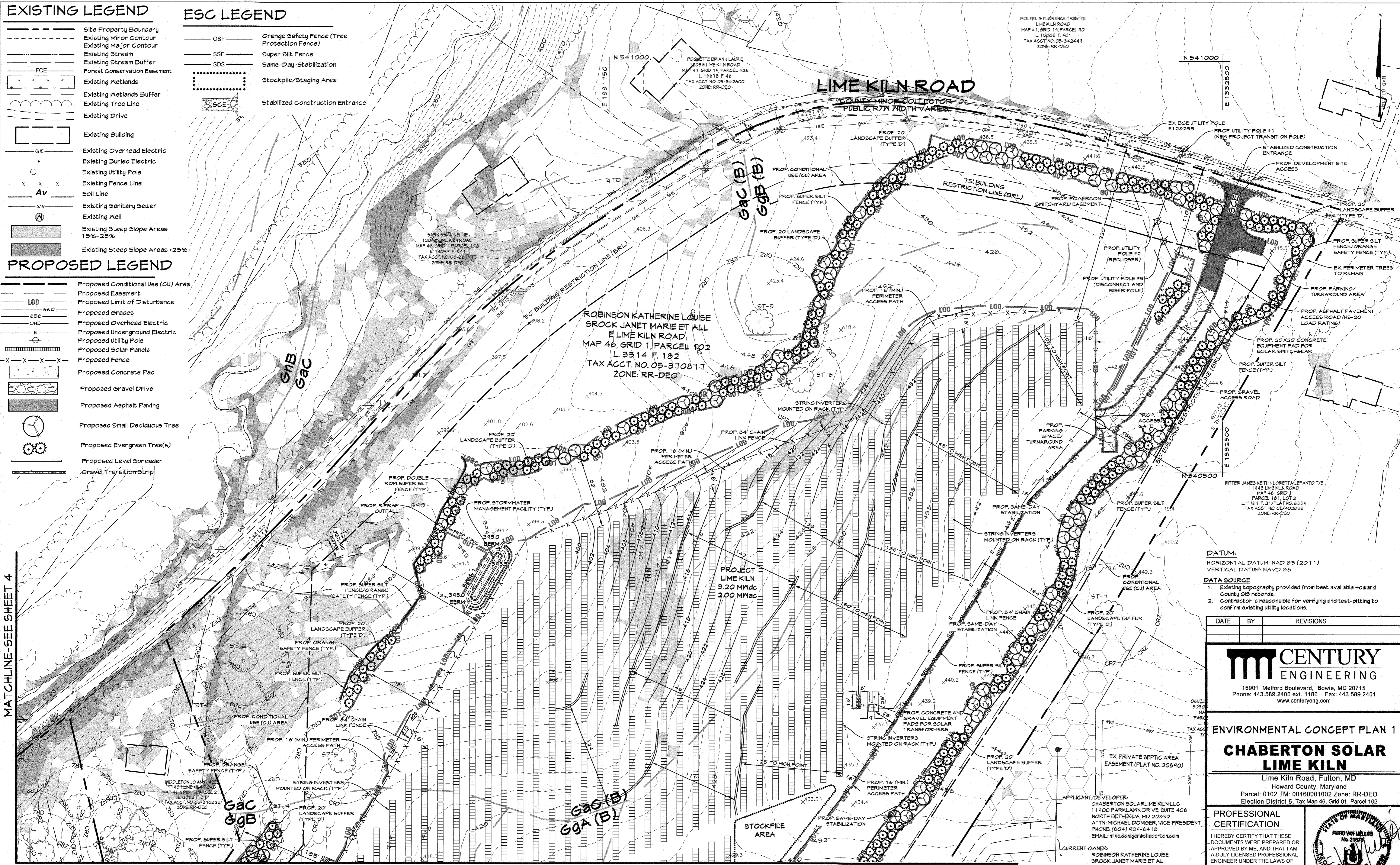
ESC LEGEND

- OSF Orange Safety Fence (Tree Protection Fence)
- SSF Super Silt Fence
- SDS Same-Day-Stabilization
- Stockpile/Staging Area
- Stabilized Construction Entrance

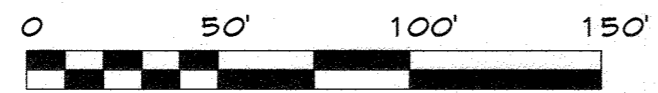
PROPOSED LEGEND

- Proposed Conditional Use (CU) Area
- Proposed Easement
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Under-ground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Asphalt Paving
- Proposed Small Deciduous Tree
- Proposed Evergreen Tree(s)
- Proposed Level Spreader
- Gravel Transition Strip

MATCHLINE-SEE SHEET 4



MATCHLINE-SEE SHEET 3



ENVIRONMENTAL CONCEPT PLAN 1
SCALE: 1"=50'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 8/31/22 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 8/29/22 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT

ENGINEERING CONSULTANT:
 CENTURY ENGINEERING, INC.
 18401 WELFORD BLVD, SUITE 129
 BOWIE, MD 20715
 ATTN: PIERO PETER MELLITS, PE
 PHONE: (443) 589-2400 ext. 1180
 EMAIL: pmellits@centuryeng.com

DATUM:
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88
 DATA SOURCE:
 1. Existing topography provided from best available Howard County GIS records.
 2. Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
 16901 Melford Boulevard, Bowie, MD 20715
 Phone: 443.589.2400 ext. 1180 Fax: 443.589.2401
 www.centuryeng.com

ENVIRONMENTAL CONCEPT PLAN 1
CHABERTON SOLAR LIME KILN
 Lime Kiln Road, Fulton, MD
 Howard County, Maryland
 Parcel: 0102 TM: 00460001002 Zone: RR-DEO
 Election District 5, Tax Map 46, Grid 01, Parcel 102

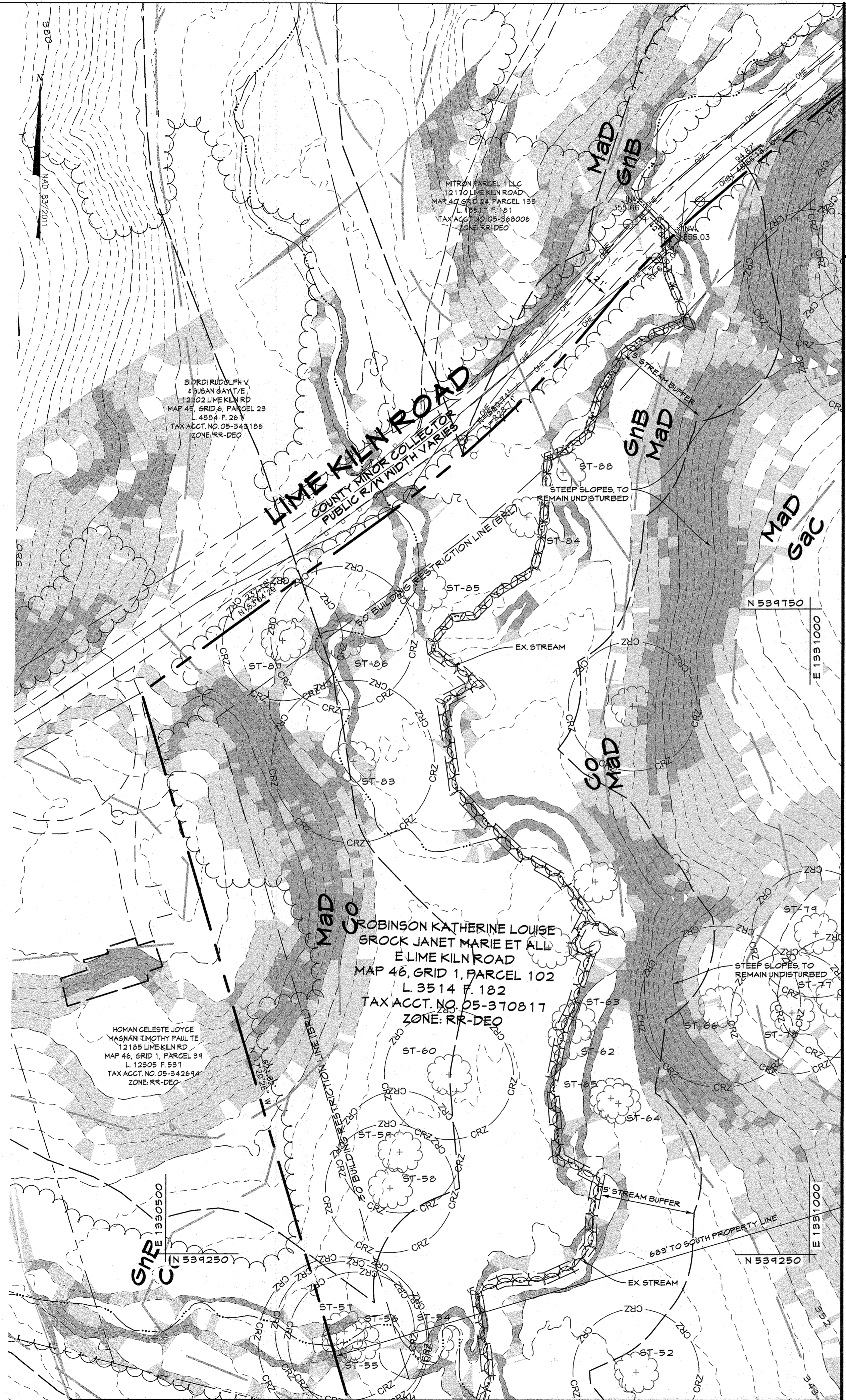
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO.: 21875
 EXPIRATION DATE: 2/12/2024
 06/07/2022



DRAWN BY: JLA
 DESIGN BY: JLA
 SCALE: AS SHOWN
 PROJECT No.: 211182.00
 REVIEW BY: PVM
 REVIEW DATE: 06-07-2022
 DRAWING: 2 of 9

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T:\2023\1\Facilities\2.11182.00 Project Lime Kiln Solar Site\CIVIL\CADD\Drawings\ECF Plan\2.11182.00 (ECF-03 - 05) Environmental Concept Plan.dwg Jun 07, 2022 12:56pm janderson



MATCHLINE-SEE SHEET 2

MATCHLINE-SEE SHEET 3

MATCHLINE - SEE SHEET 5
ENVIRONMENTAL CONCEPT PLAN 3
 SCALE: 1"=50'

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
- OHE Existing Overhead Electric
- E Existing Buried Electric
- Existing Utility Pole
- X - X - X Existing Fence Line
- Av Soil Line
- SAN Existing Sanitary Sewer
- Existing Well
- Existing Steep Slope Areas 15%-25%
- Existing Steep Slope Areas >25%
- Existing Specimen Tree & Critical Root Zone

PROPOSED LEGEND

- Proposed Conditional Use (CU) Area
- Proposed Easement
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
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- Proposed Gravel Drive
- Proposed Asphalt Paving
- Proposed Small Deciduous Tree
- Proposed Evergreen Tree(s)
- Proposed Level Spreader

ESC LEGEND

- OSF Orange Safety Fence (Tree Protection Fence)
- SSF Super Silt Fence
- SDS Same-Day-Stabilization
- Stockpile/Staging Area
- Stabilized Construction Entrance

APPLICANT/DEVELOPER:
 CHABERTON SOLAR LIME KILN LLC
 11100 PARKLAWN DRIVE, SUITE 406
 NORTH BETHESDA, MD 20852
 ATTN: MICHAEL DONGER, VICE PRESIDENT
 PHONE: (304) 421-9415
 EMAIL: mike.donger@chaberton.com

CURRENT OWNER:
 ROBINSON KATHERINE LOUISE
 SROCK JANET MARIE ET AL
 P.O. BOX 411
 FULTON, MD 20759-0411

ENGINEERING CONSULTANT:
 CENTURY ENGINEERS INC.
 16401 MELFORD BLVD, SUITE 124
 BONIE, MD 20715
 ATTN: PIERO PETE MELLITS, PE
 PHONE: (443) 589-2400 ext. 1180
 EMAIL: pmellits@centuryeng.com

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

DATA SOURCE

- Existing topography provided from best available Howard County GIS records.
- Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
 16901 Melford Boulevard, Bowie, MD 20715
 Phone: 443.589.2400 ext. 1180 Fax: 443.589.2401
 www.centuryeng.com

ENVIRONMENTAL CONCEPT PLAN 3
CHABERTON SOLAR LIME KILN
 Lime Kiln Road, Fulton, MD
 Howard County, Maryland
 Parcel: 0102 TM: 00460001002 Zone: RR-DEO
 Election District 5, Tax Map 46, Grid 01, Parcel 102

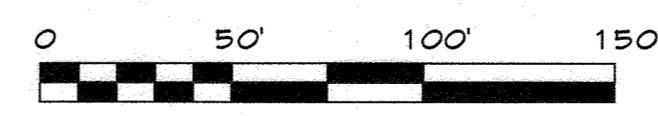
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE No.: 21875
 EXPIRATION DATE: 2/12/2024

06/07/2022

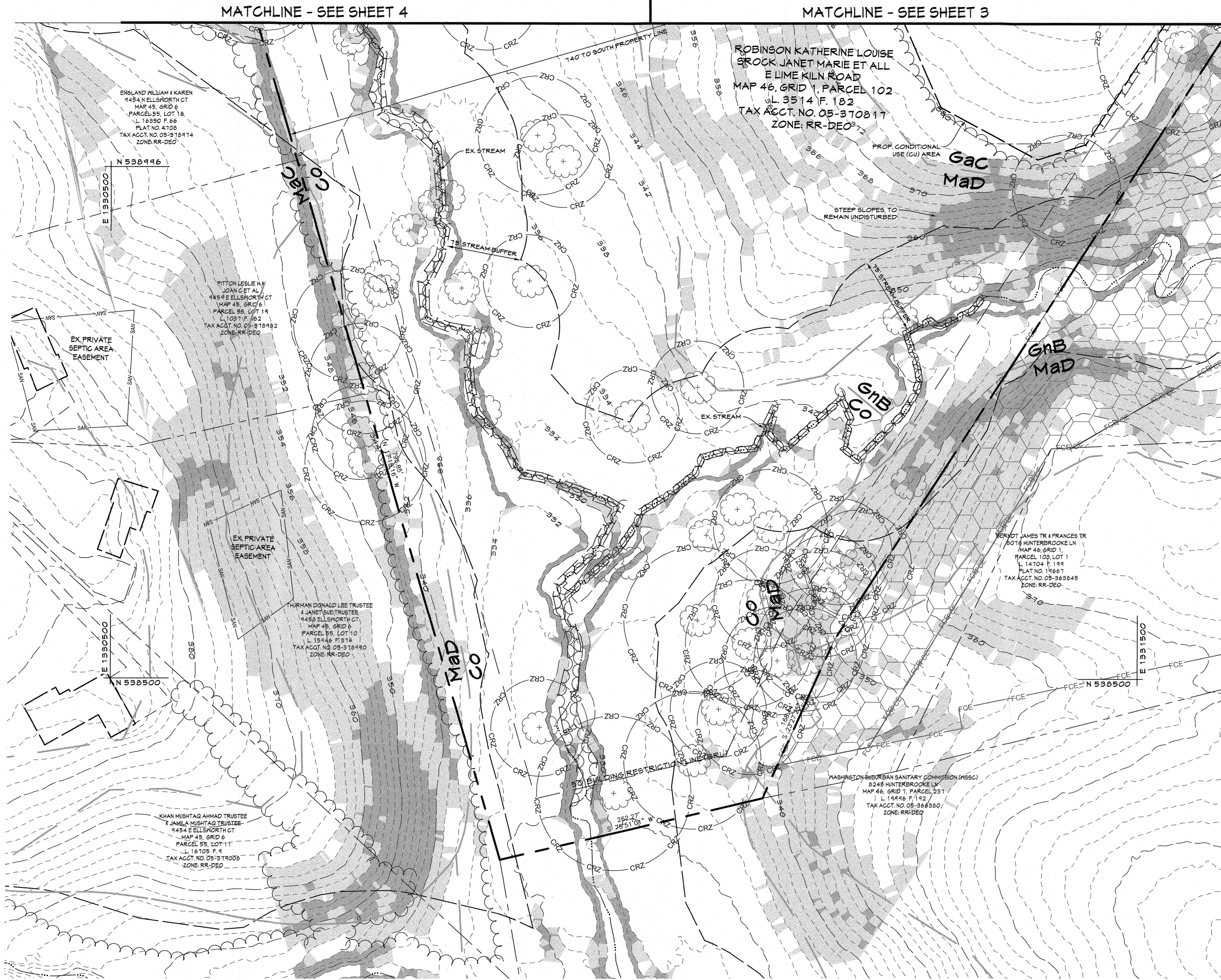
REVIEW BY: PVM
 REVIEW DATE: 06-07-2022

SCALE: AS SHOWN
 DRAWING: 4 of 9
 PROJECT No.: 211182.00

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE 8-31-22
 CHIEF, DIVISION OF LAND DEVELOPMENT & DATE 8/2/22



T:\2021\Facilities\21118200 Project, Lime Kiln Solar, site\CIVIL\CADD\Drawings\ECP Plan\21118200 (ECP-02 - 05) Environmental Concept Plan.dwg Jun 07, 2022 12:56pm 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 Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Well
- Existing Steep Slope Areas 15%-25%
- Existing Steep Slope Areas >25%
- Existing Specimen Tree & Critical Root Zone

PROPOSED LEGEND

- Proposed Conditional Use (CU) Area
- Proposed Easement
- LOD Proposed Limit of Disturbance
- 660 Proposed Grades
- 658 Proposed Stream Buffer
- OHE Proposed Overhead Electric
- E Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Asphalt Paving
- Proposed Small Deciduous Tree
- Proposed Evergreen Tree(s)
- Proposed Level Spreader

ESC LEGEND

- OSF Orange Safety Fence (Tree Protection Fence)
- SSF Super Silt Fence
- SDS Same-Day-Stabilization
- Stockpile/Staging Area
- SCE Stabilized Construction Entrance

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

DATA SOURCE

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DATE	BY	REVISIONS

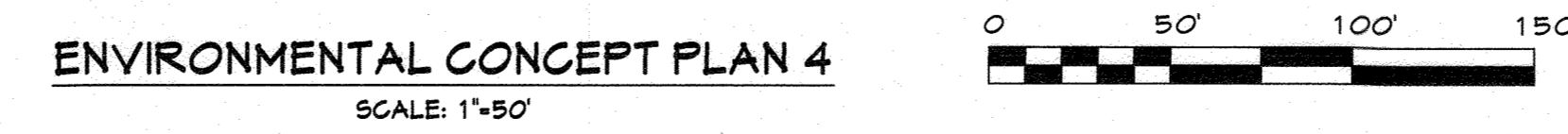
CENTURY ENGINEERING
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www.centuryeng.com

ENVIRONMENTAL CONCEPT PLAN 4
CHABERTON SOLAR LIME KILN
Lime Kiln Road, Fulton, MD
Howard County, Maryland
Parcel: 0102 TM: 00460001002 Zone: RR-DEO
Election District 5, Tax Map 46, Grid 01, Parcel 102

PROFESSIONAL CERTIFICATION
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LICENSE NO.: 21875
EXPIRATION DATE: 2/12/2024
06/07/2022

DESIGNED BY: JLA	REVIEW BY: PVM
SCALE: AS SHOWN	REVIEW DATE: 06-07-2022
PROJECT No.: 211182.00	DRAWING: 5 of 9

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION: *B. Sizer* DATE
CHIEF, DIVISION OF LAND DEVELOPMENT: *KD* DATE



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
- OHE Existing Overhead Electric
- E Existing Buried Electric
- Existing Utility Pole
- X-X-X Existing Fence Line
- Av Soil Line
- SAW Existing Sanitary Sewer
- Existing Well
- Existing Steep Slope Areas 15%-25%
- Existing Steep Slope Areas >25%

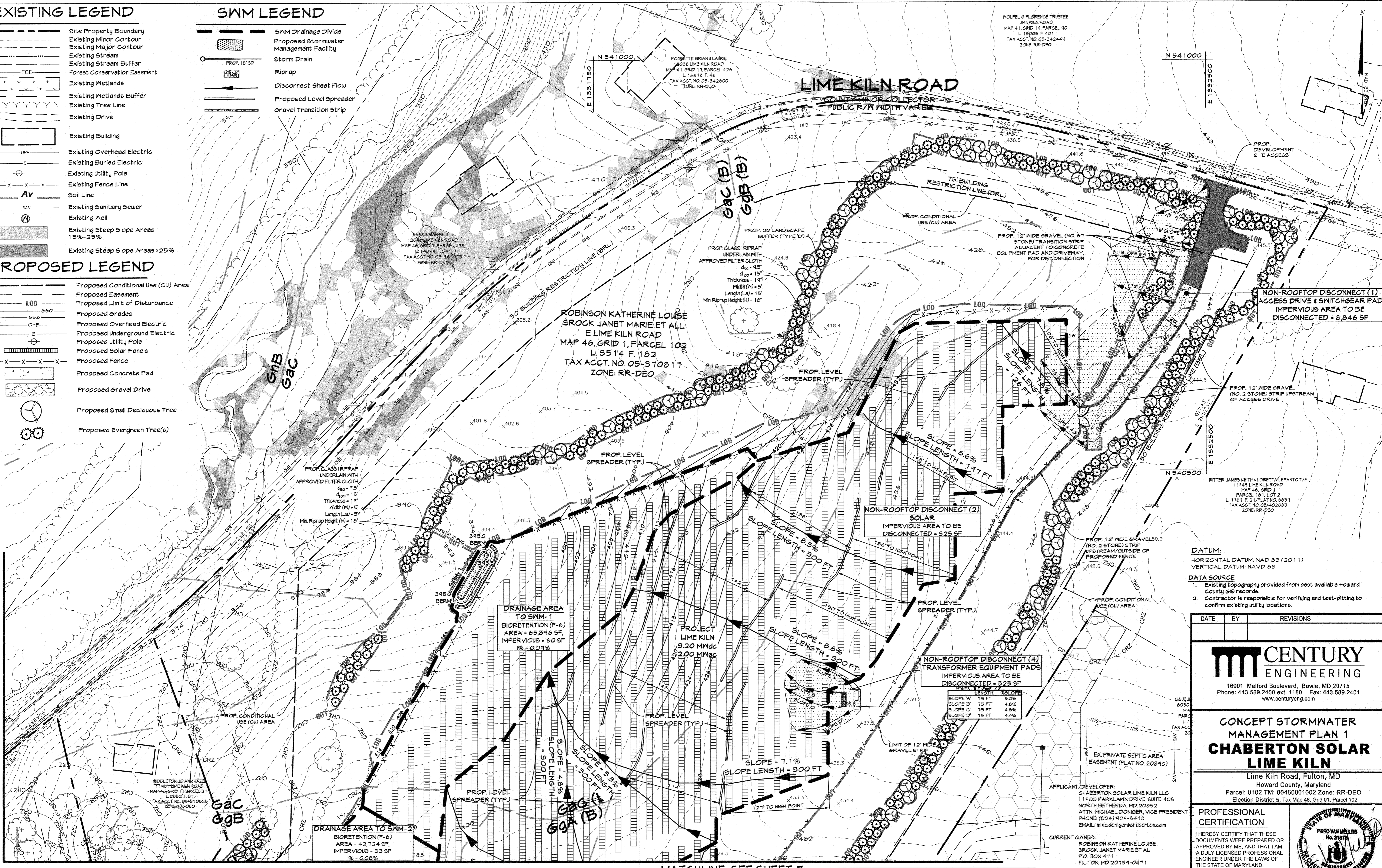
SWM LEGEND

- SWM Drainage Divide
- Proposed Stormwater Management Facility
- Storm Drain
- Riprap
- Disconnect Sheet Pile
- Proposed Level Spreader
- Gravel Transition Strip

PROPOSED LEGEND

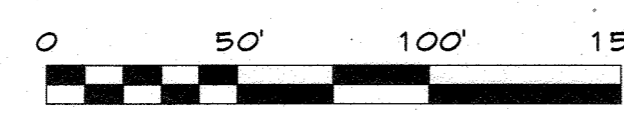
- Proposed Conditional Use (Cu) Area
- Proposed Easement
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Overhead Electric
- Proposed Underground Electric
- Proposed Utility Pole
- Proposed Solar Panels
- Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Small Deciduous Tree
- Proposed Evergreen Tree(s)

T:\2021\Facilities\21119200 Project Lime Kiln Solar Site\CADD\Drawings\ECP\Plan\21119200 (ECP-06-04) Concept SWM Plan.dwg Jun 07, 2022 12:56pm janderson



MATCHLINE-SEE SHEET 8

MATCHLINE-SEE SHEET 7



CONCEPT STORMWATER MANAGEMENT PLAN 1
SCALE: 1"=50'

APPROVED: *[Signature]* DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION 4 DATE: 8/31/22
[Signature] CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 8/24/22

ENGINEERING CONSULTANT:
CENTURY ENGINEERING INC.
16901 MELFORD BLVD, SUITE 124
BOWIE, MD 20715
ATTN: PIERO PETE MELLITS, PE
PHONE: (443) 589-2400 ext. 1180
EMAIL: pmellits@centuryeng.com

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

DATA SOURCE:
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2. Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
16901 Melford Boulevard, Bowie, MD 20715
Phone: 443.589.2400 ext. 1180 Fax: 443.589.2401
www.centuryeng.com

CONCEPT STORMWATER MANAGEMENT PLAN 1
CHABERTON SOLAR LIME KILN
Lime Kiln Road, Fulton, MD
Howard County, Maryland
Parcel: 0102 TM: 0046001002 Zone: RR-DEO
Election District 5, Tax Map 46, Grid 01, Parcel 102

PROFESSIONAL CERTIFICATION
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LICENSE No.: 21875
EXPIRATION DATE: 2/12/2024

APPLICANT/DEVELOPER:
CHABERTON SOLAR LIME KILN LLC
11400 PARKLAWN DRIVE, SUITE 406
NORTH BETHESDA, MD 20852
ATTN: MICHAEL DONIGER, VICE PRESIDENT
PHONE: (804) 424-8418
EMAIL: mike.doniger@chaberton.com

CURRENT OWNER:
ROBINSON KATHERINE LOUISE SROCK JANET MARIE ET AL
P.O. BOX 411
FULTON, MD 20759-0411

REVIEW BY: PVM
REVIEW DATE: 06-07-2022

SCALE: AS SHOWN DRAWING: 6 of 9
PROJECT No.: 211182.00

EXISTING LEGEND

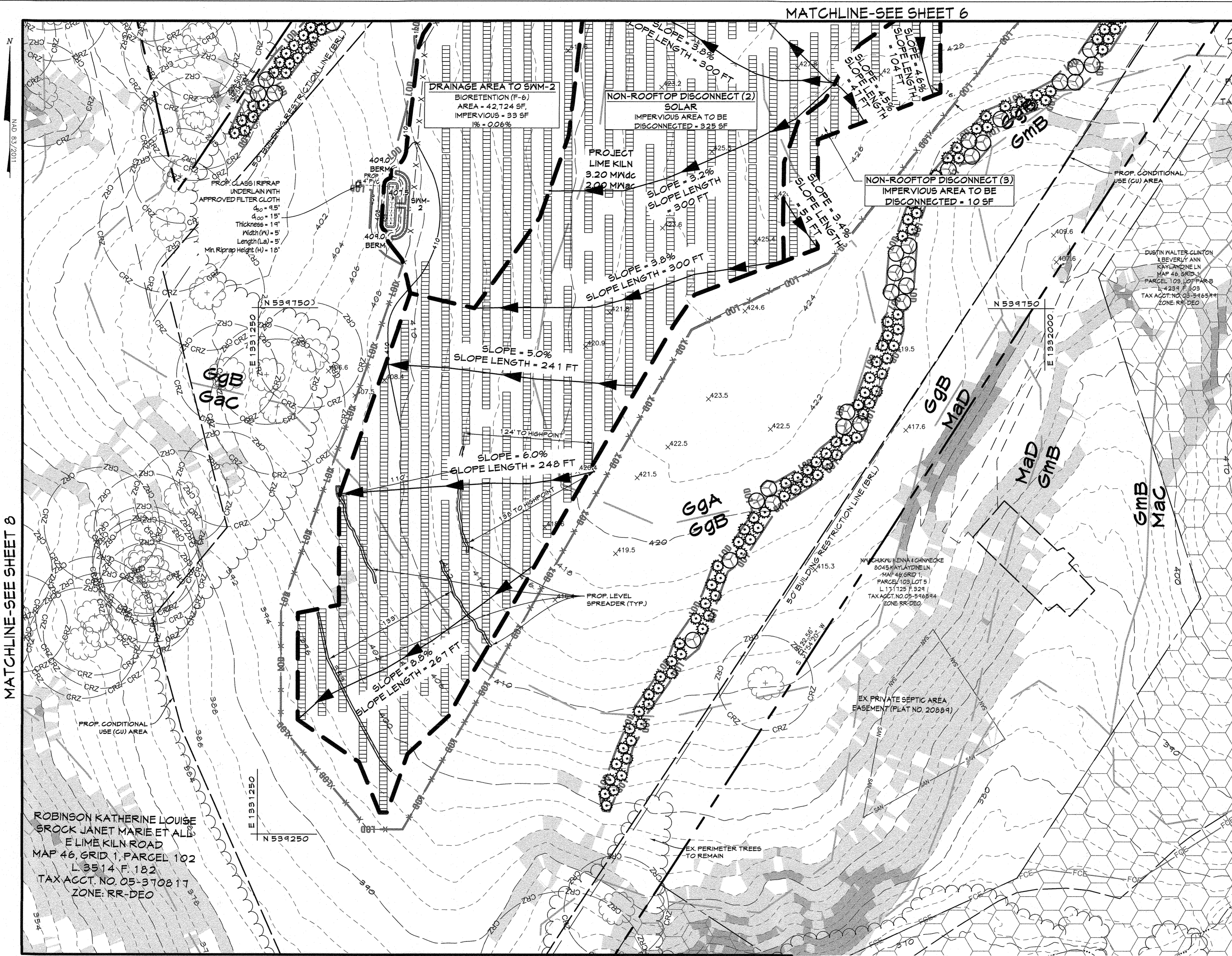
- Site Property Boundary
- - - Existing Minor Contour
- - - Existing Major Contour
- - - Existing Stream
- - - Existing Stream Buffer
- FCE Forest Conservation Easement
- - - Existing Wetlands
- - - Existing Wetlands Buffer
- - - Existing Tree Line
- - - Existing Drive
- Existing Building
- OHE Existing Overhead Electric
- E Existing Buried Electric
- Existing Utility Pole
- X - X - X Existing Fence Line
- Av Soil Line
- SAN Existing Sanitary Sewer
- Existing Well
- Existing Steep Slope Areas 15%-25%
- Existing Steep Slope Areas >25%
- Existing Specimen Tree & Critical Root Zone

PROPOSED LEGEND

- Proposed Conditional Use (CU) Area
- Proposed Easement
- LOD Proposed Limit of Disturbance
- 660 Proposed Grades
- OHE Proposed Overhead Electric
- E Proposed Underground Electric
- Existing Utility Pole
- Proposed Solar Panels
- X - X - X Proposed Fence
- Proposed Concrete Pad
- Proposed Gravel Drive
- Proposed Small Deciduous Tree
- Proposed Evergreen Tree(s)

SWM LEGEND

- SWM Drainage Divide
- Proposed Stormwater Management Facility
- Storm Drain
- Riprap
- Disconnect Sheet Flow
- Proposed Level Spreader
- Gravel Transition Strip



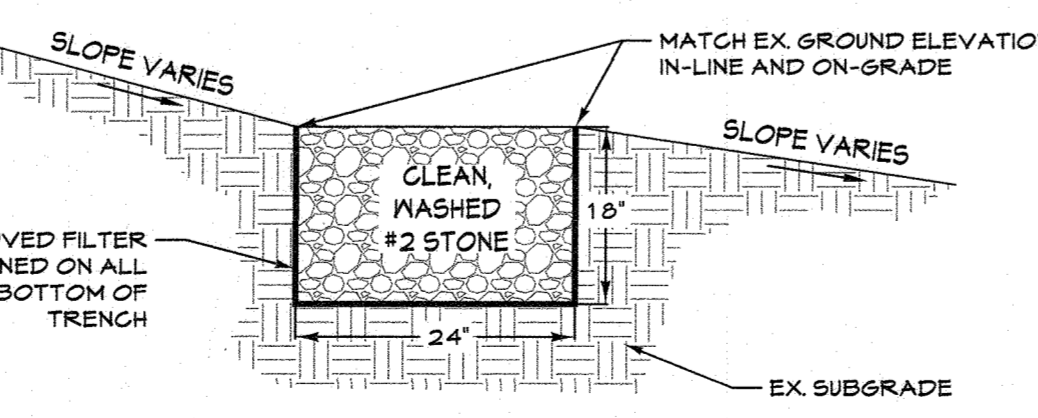
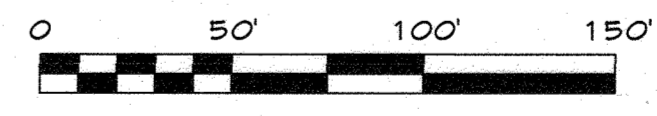
MATCHLINE-SEE SHEET 8

MATCHLINE-SEE SHEET 6

MATCHLINE-SEE SHEET 9

CONCEPT STORMWATER MANAGEMENT PLAN 2

SCALE: 1"=50'



NOTE: LEVEL SPREADER DEVICE SHALL BE CONSTRUCTED WITH THE TOP OF THE DEVICE AT AN EQUAL ELEVATION AT ALL POINTS ALONG THE LENGTH OF THE DEVICE

LEVEL SPREADER TYPICAL SECTION

N.T.S.

ROBINSON KATHERINE LOUISE
SROCK JANET MARIE ET AL
E LIME KILN ROAD
MAP 46, GRID 1, PARCEL 102
L 3514 F. 182
TAX ACCT. NO. 05-370817
ZONE: RR-DEO

DUSTIN WALTER CLINTON
BEVERLY ANN
KAYLADINE LN
MAP 6, GRID 21
PARCEL 103, LOT PARC
L 4239 F. 503
TAX ACCT. NO. 05-546600
ZONE: RR-DEO

DUSTIN WALTER CLINTON
BEVERLY ANN
KAYLADINE LN
MAP 46, GRID 1
PARCEL 103, LOT PARC
L 4239 F. 503
TAX ACCT. NO. 05-546594
ZONE: RR-DEO

APPLICANT/DEVELOPER:
CHABERTON SOLAR LIME KILN LLC
11400 PARKLAWN DRIVE, SUITE 406
NORTH BETHESDA, MD 20852
ATTN: MICHAEL DONGER, VICE PRESIDENT
PHONE: (304) 424-8418
EMAIL: mike.donger@chaberton.com

CURRENT OWNER:
ROBINSON KATHERINE LOUISE
SROCK JANET MARIE ET AL
P.O. BOX 471
FULTON, MD 20759-0471

ENGINEERING CONSULTANT:
CENTURY ENGINEERING INC.
16901 MELFORD BLVD., SUITE 129
BOWIE, MD 20715
ATTN: PIERO PETER MELLITS, PE
PHONE: (443) 589-2400 ext. 1180
EMAIL: pmellits@centuryeng.com

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

- DATA SOURCE
- Existing topography provided from best available Howard County GIS records.
 - Contractor is responsible for verifying and test-pitting to confirm existing utility locations.

DATE	BY	REVISIONS

CENTURY ENGINEERING
16901 Melford Boulevard, Bowie, MD 20715
Phone: 443.589.2400 ext. 1180 Fax: 443.589.2401
www.centuryeng.com

CONCEPT STORMWATER MANAGEMENT PLAN 2
CHABERTON SOLAR LIME KILN
Lime Kiln Road, Fulton, MD
Howard County, Maryland
Parcel: 0102 TM: 00460001002 Zone: RR-DEO
Election District 5, Tax Map 46, Grid 01, Parcel 102

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: 2/12/2024

APPROVED: [Signature] DEPARTMENT OF PLANNING AND ZONING
DATE: 8/31/22
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DESIGN BY: JLA REVIEW BY: PVM
DATE: 8/24/22 REVIEW DATE: 06-07-2022

SCALE: AS SHOWN DRAWING: 7 of 9
PROJECT No.: 211182.00

ESDv Summary Table

	Impervious Area (s.f.)	Pe (inches)	ESDv (cu.ft.)
Required	9,514	1.00	3,499*
Provided	9,514	1.62	1,953

*The Target ESDv as shown is based on the LOD of the development area, in total, including all temporary sediment controls areas and grassed areas within the fence line that will not be graded but rather replaced with a pollinator friendly seed mix. With this being said, the referenced portion of the LOD that will return to its pre-development condition after construction, is not required to be treated to meet MDE's intent for treating stormwater management for a solar array. The provided ESDv, as shown, treats all new impervious area to the maximum extent practicable.

Project Catherine ESD BMP Summary Table

Facility type	Facility Number	Area (s.f.)	Impervious Area Treated (s.f.)	Pe Treated (inches)	ESDv Treated (cu.ft.)
F-6 Bioretention	SWM #1	65,896	60	2.65	740
F-6 Bioretention	SWM #2	42,724	33	2.6	468
Non-Rooftop Disconnect (Access Drive)	Disconnect (1)	8,846	8,846	1.0	700
Non-Rooftop Disconnect (Solar)	Disconnect (2)	240	240	1.0	19
Non-Rooftop Disconnect (Solar)	Disconnect (3)	10	10	1.0	1
Non-Rooftop Disconnect (Equipment Pad)	Disconnect (4)	325	325	1.0	26
Total		118,041	9,514	1.62	1,953

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T:\2021\Facilities\21118200 Project Lime Kiln Solar site\CADD\Drawings\ECP Plan\21118200 (ECP-06 - 04) Concept SWM Plan.dwg Jun 01, 2022 12:56pm janderson



MATCHLINE-SEE SHEET 6

MATCHLINE-SEE SHEET 7

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
- - - Existing Utility Pole
- X - X - X Existing Fence Line
- - - Av Soil Line
- - - SAN Existing Sanitary Sewer
- - - Existing Well
- Existing Steep Slope Areas 15% - 25%
- Existing Steep Slope Areas >25%
- Existing Specimen Tree & Critical Root Zone

PROPOSED LEGEND

- Proposed Conditional Use (CU) Area
- Proposed Easement
- 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 Small Deciduous Tree
- Proposed Evergreen Tree(s)

SWM LEGEND

- SWM Drainage Divide
- Proposed Stormwater Management Facility
- Storm Drain
- Riprap
- Disconnect Sheet Flow

MATCHLINE - SEE SHEET 9

CONCEPT STORMWATER MANAGEMENT PLAN 3

SCALE: 1"=50'



APPLICANT/DEVELOPER:
 CHABERTON SOLAR LIME KILN LLC
 11400 PARKLAWN DRIVE, SUITE 406
 NORTH BETHESDA, MD 20852
 ATTN: MICHAEL DOWNER, VICE PRESIDENT
 PHONE: (304) 424-8418
 EMAIL: mike.donger@chaberton.com

CURRENT OWNER:
 ROBINSON KATHERINE LOUISE
 BROCK JANET MARIE ET AL
 P.O. BOX 471
 FULTON, MD 20154-0471

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DATUM:
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DATE	BY	REVISIONS

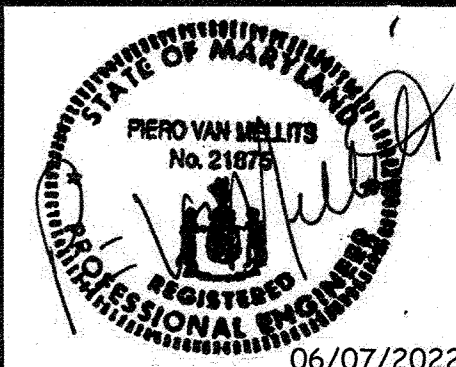
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 16901 Melford Boulevard, Bowie, MD 20715
 Phone: 443.589.2400 ext. 1180 Fax: 443.589.2401
 www.centuryeng.com

**CONCEPT STORMWATER MANAGEMENT PLAN 3
 CHABERTON SOLAR LIME KILN**

Lime Kiln Road, Fulton, MD
 Howard County, Maryland
 Parcel: 0102 TM: 00460001002 Zone: RR-DEO
 Election District 5, Tax Map 46, Grid 01, Parcel 102

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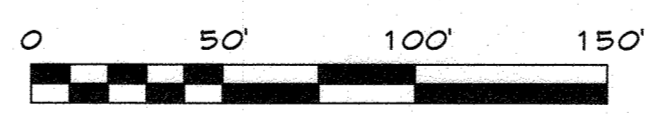
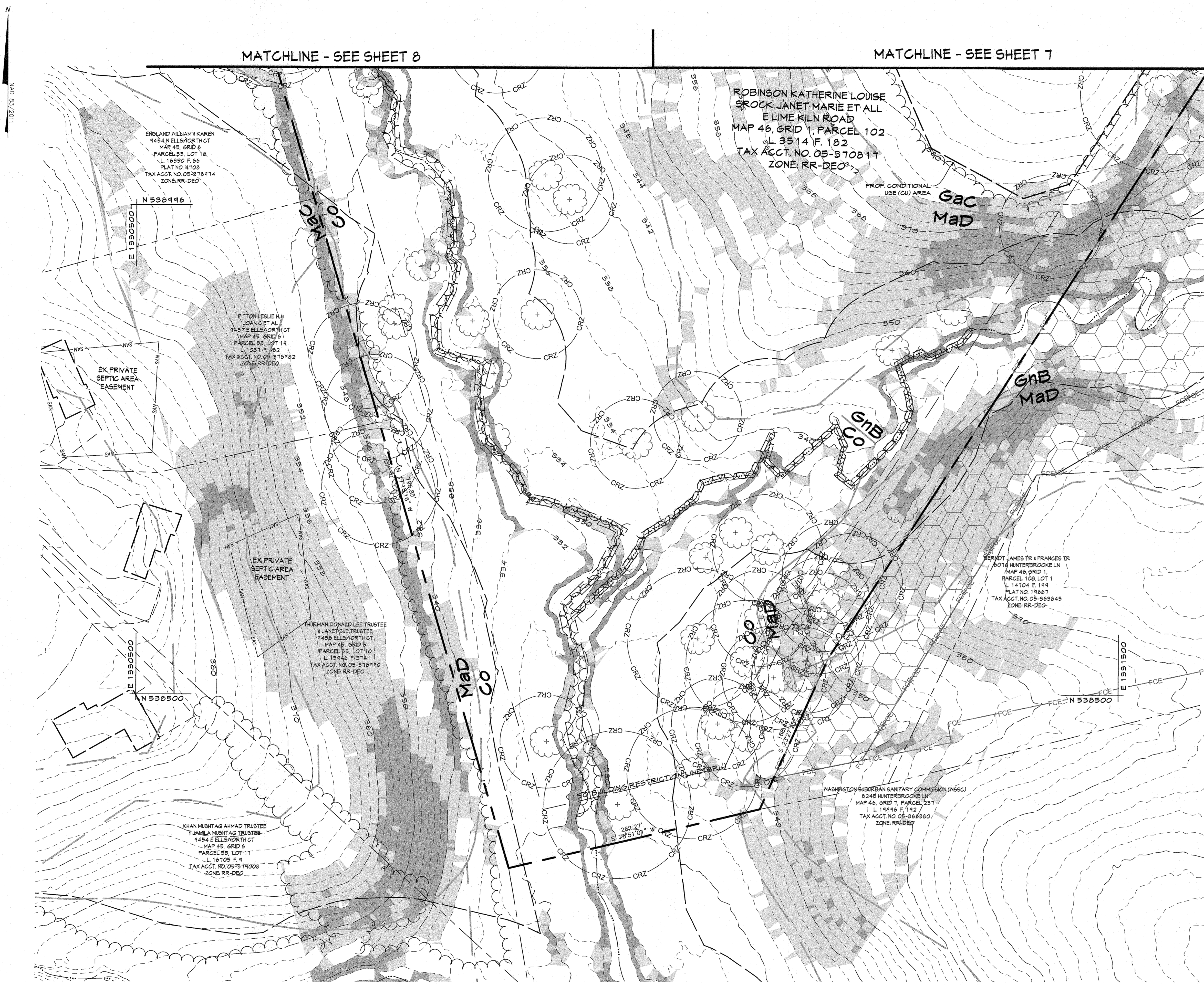


APPROVED: DEPARTMENT OF PLANNING AND ZONING	DATE: 6/3/22
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE: 6/3/22
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE: 6/3/22

DRAWN BY: JLA	REVIEW BY: PVM
DESIGN BY: JLA	REVIEW DATE: 06-07-2022
SCALE: AS SHOWN	DRAWING: 8 of 9

PROJECT No.: 211182.00

T:\2021\Facilities\21118200 Project Lime Kiln Solar\site\CIVIL\CADD\Drawings\ECFP\Plan\21118200 (ECFP-06 - 09) Concept SWM Plan.dwg Jun 01, 2022 12:56pm janderson



EXISTING LEGEND

- Site Property Boundary
- - - Existing Minor Contour
- - - Existing Major Contour
- - - Existing Stream
- - - Existing Stream Buffer
- - - Existing Conservation Easement
- - - Existing Wetlands
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PROPOSED LEGEND

- - - Proposed Conditional Use (CU) Area
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- - - Proposed Overhead Electric
- - - Proposed Underground Electric
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SWM LEGEND

- - - SWM Drainage Divide
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DATUM:
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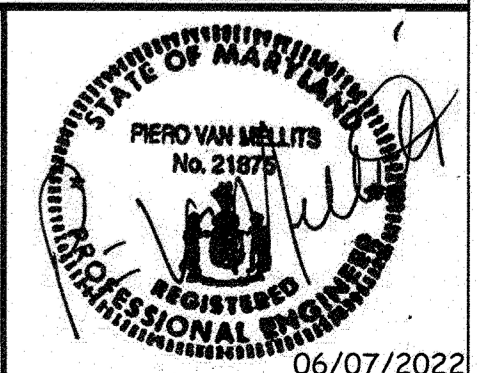
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Phone: 443.589.2400 ext. 1180 Fax: 443.589.2401
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**CONCEPT STORMWATER MANAGEMENT PLAN 4
CHABERTON SOLAR LIME KILN**

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Parcel: 0102 TM: 00460001002 Zone: RR-DEO
Election District 5, Tax Map 46, Grid 01, Parcel 102

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LICENSE No.: 21875
EXPIRATION DATE: 2/12/2024



DRAWN BY: JLA
DESIGN BY: JLA

REVIEW BY: PVM
REVIEW DATE: 06-07-2022

SCALE: AS SHOWN
PROJECT No.: 211182.00

DRAWING: 9 of 9

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 8/2/22
CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE
[Signature] 6/29/22
CHIEF, DIVISION OF LAND DEVELOPMENT & DATE

APPLICANT/DEVELOPER:
CHABERTON SOLAR LIME KILN LLC
11900 PARKLAWN DRIVE, SUITE 406
NORTH BETHESDA, MD 20852
ATTN: MICHAEL DONIGER, VICE PRESIDENT
PHONE: (804) 921-8418
EMAIL: mike.doniger@chaberton.com

CURRENT OWNER:
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BROCK JANET MARIE ET AL
P.O. BOX 471
FULTON, MD 20715-0471

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