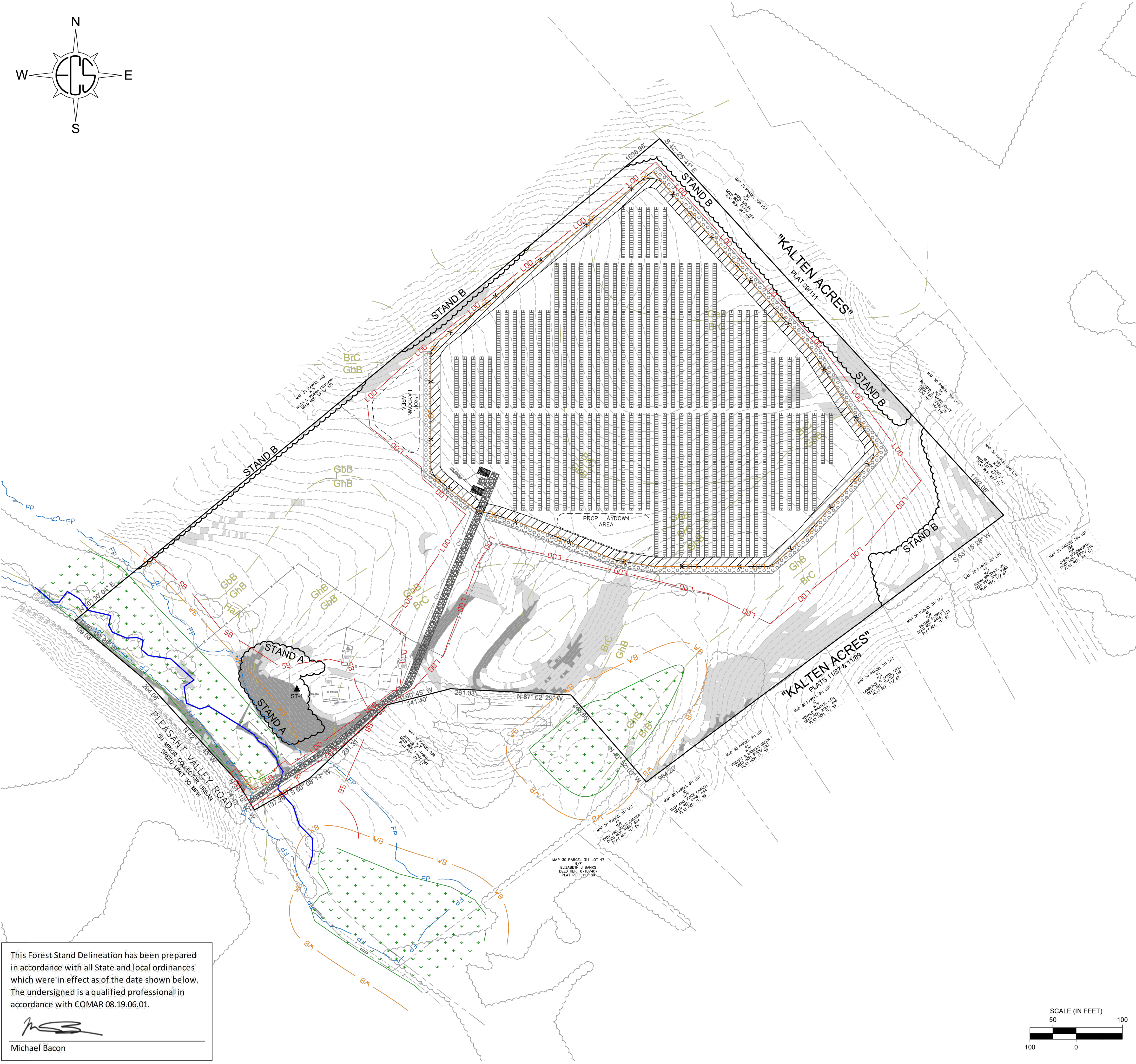
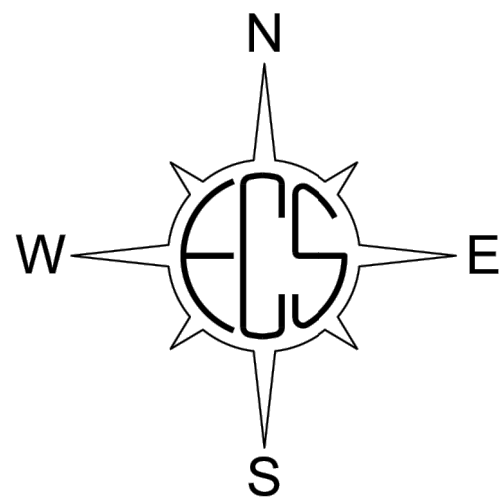
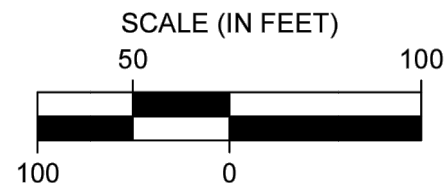




This Forest Stand Delineation has been prepared in accordance with all State and local ordinances which were in effect as of the date shown below. The undersigned is a qualified professional in accordance with COMAR 08.19.06.01.


Michael Bacon



VICINITY MAP
1" = 2,000'

- LEGEND**
- ST-# SPECIMEN TREE LOCATION
 - FOREST STAND
 - TREE LINE
 - EXISTING 2-FT ELEVATION CONTOURS
 - STEEP SLOPES (15-25%)
 - STEEP SLOPES (>25%)
 - SOIL UNITS
 - APPROXIMATE PERENNIAL STREAM CHANNEL (R3)
 - APPROXIMATE PALUSTRINE EMERGENT (PEM) WETLAND (MARYLAND DNR)
 - PRELIMINARY STREAM BUFFER (VARIABLE WIDTH)
 - PRELIMINARY 25' WETLAND BUFFER
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED LANDSCAPE BUFFER
 - PROPOSED GRASS ACCESS ROAD
 - SUBJECT PROPERTY
 - ADJOINING PROPERTY
- Site-Specific Notes**
- Two forest stands are present within the subject property:
 - Forest Stand A is located within the southern portion of the subject property between the onsite dwelling and stream. This stand consists of white mulberry (*Morus alba*) and black walnut (*Juglans nigra*) with an understory of apple (*Malus* sp.) and black cherry (*Prunus serotina*). The herbaceous stratum of this stand contains Morrow's honeysuckle (*Lonicera morrowii*), pokeweed (*Physalis americana*), goldenrod (*Solidago* sp.), aster species (*Asteraceae* sp.), Virginia creeper (*Parthenocissus quinquefolia*), and poison ivy (*Toxicodendron radicans*). Additionally, multiflora rose (*Rosa multiflora*) and tree of heaven (*Ailanthus altissima*) were observed east and adjacent to this forest stand. This stand is of a young to medium successional stage.
 - Forest Stand B is located along the northeastern and northwestern boundaries of the subject property and continues offsite. This stand generally consists of *J. nigra*. The herbaceous stratum of this stand contains various invasive species including Japanese still grass (*Microstegium vimineum*), mile-a-minute (*Piscaria perfoliata*), garlic mustard (*Alliaria petiolata*), and *R. multiflora*. Native plants within the herbaceous stratum of this stand include Allegheny blackberry (*Rubus allegheniensis*) and *P. americana*. This stand is of a young successional stage.
 - Watershed Eco, LLC delineated the study area on April 11, 2022. The investigation identified a perennial stream (Bear Branch) in the southwestern portion of the subject property. ECS has not been provided with geospatial data from this investigation.
 - Environmental features depicted herein were field verified by the MDE on November 21, 2023.
 - Soil mapping units GbB - Glenville silt loam, 3 to 8 percent slopes and HaA - Hatboro silt loam, 0 to 3 percent slopes have a K-value greater than 0.35. Steep slopes are located throughout the subject property.
 - SGC Power submitted an Environmental Review request to the Maryland DNR for any information on critical habitat or threatened and endangered species onsite. On November 23, 2021, Ms. Lori Byrne of the DNR responded that no official records for State or Federal listed, candidate, proposed, or rare plant or animal species are located within the project area.
 - According to FEMA, a 100-year floodplain extends into the southern portion of the subject property.
 - According to MERLIN, the subject property is not identified on the Maryland Inventory of Historic Places.
 - Various residential structures are present to the southeast of the subject property. A mixture of residential structures and wooded land are present to the northeast and southwest of the subject property. Unimproved wooded land is present to the northwest of the subject property. An apparent residential structure is present south and adjacent to the subject property.
 - Construction stockpile/laydown areas and phasing plans will be prepared during the local site plan and construction document preparation process.
 - The Project schedule includes the following approximate milestones:
 - Engineering and Permitting: TBD
 - Start of construction: TBD
 - Start of Commercial Operation: TBD

Forest Conservation Worksheet 2.2			
Net Tract Area			
A. Total Tract Area		A =	33.11
B. Deductions		B =	1.81
C. Net Tract Area		C =	31.30
Land Use Category			
Input the number "1" under the appropriate land use zoning, and limit to only one entry			
ARA	MDR	DA	MPD
1	0	0	0
D. Afforestation Threshold (Net Tract Area x 20%)		D =	6.26
E. Conservation Threshold (Net Tract Area x 50%)		E =	15.65
Existing Forest Cover			
F. Existing Forest Cover within the Net Tract Area		F =	2.28
G. Area of Forest Above Conservation Threshold		G =	0.00
Break Even Point			
H. Break Even Point		H =	2.28
I. Forest Clearing Permitted Without Mitigation		I =	0.00
Proposed Forest Clearing			
J. Total Area of Forest to be Cleared		J =	0.00
K. Total Area of Forest to be Retained		K =	2.28
Planting Requirements			
L. Reforestation for Clearing Above the Conservation Threshold		L =	0.00
M. Reforestation for Clearing Below the Conservation Threshold		M =	0.00
N. Credit for Retention above the Conservation Threshold		N =	0.00
O. Total Reforestation Required		O =	0.00
P. Total Afforestation Required		P =	3.98
Q. Total Planting Requirement		Q =	3.98

Forest Stand Table				
Forest Stand ID	Square Feet (SF)	Acres (AC)	Dominant Species	Successional Stage
A	26,725	0.61	<i>Morus alba</i> , <i>Juglans nigra</i>	Young to Medium
B	73,516	1.69	<i>Juglans nigra</i>	Young

Soils Table					
Map Unit Symbol	Map Unit Name	Hydric Rating	Natural Drainage Class	Hydrologic soil group	K-Value
BrB	Brinklow channery loam, 3 to 8 percent slopes	No	Well drained	C	0.20
BrC	Brinklow channery loam, 8 to 15 percent slopes	No	Well drained	C	0.20
BrD	Brinklow channery loam, 15 to 25 percent slopes	No	Well drained	C	0.20
GbB	Galla channery loam, 3 to 8 percent slopes	No	Well drained	B	0.32
GeB	Glenelg channery loam, 3 to 8 percent slopes	No	Well drained	B	0.20
GhB	Glenville silt loam, 3 to 8 percent slopes	Yes	Moderately well drained	C/D	0.37
HaA	Hatboro silt loam, 0 to 3 percent slopes	Yes	Poorly drained	B/D	0.43

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CARROLL COUNTY, MARYLAND

FOREST
CONSERVATION PLAN
ELK DEVELOPMENT, LLC

ECS - MID-ATLANTIC, LLC
1340 CHARWOOD ROAD
SUITE B
HANOVER, MD 21076
1-800-822-2489
410-859-4300
(FAX) 703-534-5527

SETTING THE STANDARD FOR SERVICE®

ECS REVISIONS

ENGINEER GBW	DRAFTING TJW
SCALE	1" = 100'
PROJECT NO.	47:17049
SHEET	11 OF 11
DATE	07 MAY 2024