

**GENERAL NOTES**

- Existing Zoning: Industrial (I-1)
- Existing Use: Ungrazed Meadow
- Proposed use: Commercial Solar
- Total Area of Site = 10.13 AC. (441,437 SF)
- Total Area of LOD = 4.61 AC. (200,795 SF)
- The Property shown hereon is owned by 1900 Hanover Pike LLC, and is recorded in the Land Records of Carroll County in Deed Book 10555 Pg. 18, dated October 26th, 2021. The tax account number for the lot affected by these plans are 08-014531.
- Tax Map: 33, Gnd 13, Parcel 490.
- Property boundary is shown hereon was provided to KCI by RFT. Existing topography shown per field survey by RFT. Topography was most recently updated in January 2022.
- Parcel 490 contains disconnections. A "Stormwater Management Easement and Maintenance Agreement" is to be granted to the County Commissioners of Carroll County as an easement of access to the County Commissioners or authorized representatives by a deed intended to be recorded simultaneously herewith.
- Location of nearest water supply available for fire protection is an existing hydrant located approximately 700' east on Farm Woods Lane from its intersection with MD 30; Approx. 1,400' from solar site.
- The locations of existing utilities shown hereon are approximate only. Contractor shall verify the existence, location, and depth of any existing utilities and shall notify the engineer of any discrepancies prior to beginning work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 three (3) working days prior to beginning any work in the vicinity of existing utilities.
- The contractor shall note that in case of a discrepancy between the scaled and figured dimensions shown on these plans, the figured dimensions shall govern.
- Any changes to this plan will require an Amended Site Development Plan to be approved by the Carroll County Planning and Zoning Commission.
- This site plan shall become void eighteen months after the date of approval if no building permit or zoning certificate has been issued for this project, unless an extension of time limit is issued by the Director of Planning and Land Management.
- Note: All proposed spot elevations are located at bottom of curb and all dimensions are to face of curb unless labeled otherwise.
- The courses and coordinates shown hereon are referred to the system of coordinates established in the Maryland Coordinate System - NAD 83 (1991) and are based upon the following National Spatial Reference System Control stations provided by the National Geodetic Survey:
 

Designation	North (sFT)	East (sFT)
BM #1 (RFT)	713,058.14	1,351,620.40
BM #2 (RFT)	713,000.74	1,350,508.31
BUSHEL (Carroll County)	711,774.74	1,353,075.74
- Elevations shown hereon are referred to the North American Vertical Datum 1988 (NAVD 88). The coordinates of the following Carroll County monuments have been provided on NAVD 88.
 

Designation	Elevation
BM #1	816.40
BM #2	791.22
BUSHEL	869.72
- There are existing wetlands and their associated buffers on site. There is an intermittent stream located on site (per fsd). There is 80,067 sq.ft. of wetlands on-site, with associated wetlands buffer. There is no disturbance within wetland buffer. The variable width stream buffer has perimeter fencing located within; No solar structures are located within the variable width stream buffer.
- This site is located within multiple management areas as designated by the Carroll County Water Resource Management Map. This development shall comply with the Carroll County Water Resource Management Manual.
- The site is approximately 2,000' from the nearest production well.
- No construction vehicles, contractor or private, or construction materials or equipment may be parked, placed or stored within any public right of way.
- UNDERGROUND TANK NOTE: If any underground tanks are encountered on site during construction, the Contractor shall immediately notify the Maryland Department of the Environment and the Carroll County Bureau of Resource Management. The Contractor shall remove the tanks in accordance with MDE procedures.
- If the proposed use of any building is to include the storage or use of regulated substances, the requirements of Chapter 154, Water Resource Management of the Carroll County Code of Public Local Laws and Ordinances must be addressed.
- The site is in watershed O2130907 - Liberty Reservoir USE III-P watershed. Per MDE website this site is within Tier II catchments with no assimilative capacity.
- New signage is proposed as part of this Amended Site Development Plan.
- No improvements are proposed to the existing site entrance on MD.30. An access easement is to be recorded among land records of Carroll County.
- No site lighting is proposed.
- Board of Zoning Appeals Carroll County, Maryland - (Not Applicable to This Site)

**SITE COMPLIANCE CHECKLIST**

- Contractor shall notify the Carroll County Bureau of Permits and Inspections at 410-386-2674, at least one (1) day prior to beginning any work.
- Site Compliance inspections are required at the following stages during construction:
  - Proposed structures staked out in proper locations as shown on these approved plans.
  - Proposed foundations installed for all buildings shown on these approved plans.
  - Sub-grades established for all drives, parking lots, and surrounding grading.
  - Completion of all drives, parking lots, and surrounding grading.
  - Completion of all work shown on plan.
- It is the Contractor's responsibility to contact the Carroll County Bureau of Permits and Inspections at 410-386-2674 upon completion of each phase of construction.
- Contractor shall notify Carroll County Bureau of Resource Management, Environmental Inspection Services Division at 410-386-2210 prior to beginning any work. All forest conservation plan devices must be in place prior to any construction.
- Final landscaping inspection shall be arranged through the Bureau of Resource Management, Environmental Inspection Services Division at 410-386-2210 by the contractor/developer or agent. Written approval from the Landscape Review Specialist, Bureau of Resource Management must be obtained for any deviations from the landscaping or forest conservation plans or modifications in the plant material.
- The contractor shall not proceed to the next phase of construction until given approval of prior phase.

# SITE DEVELOPMENT PLAN FOR HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT

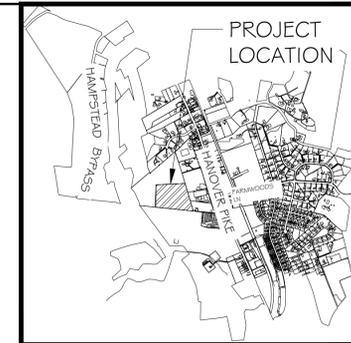
(S-25-0032)

TAX MAP# 33, GRID# 13, PARCEL # 0490, LOT# N/A  
ELECTION DISTRICT: 08 CARROLL COUNTY, MD.

**OWNER ADDRESS**  
1900 HANOVER PIKE  
1900 HANOVER PIKE  
HAMPSTEAD, MD 21074  
(410) 526-2500

**DEVELOPER ADDRESS**  
ACTIVE SOLAR DEVELOPMENT LLC  
2189 COOK ROAD  
GALWAY, NY 12074  
(800) 865-3625

**SITE ADDRESS**  
1900 HANOVER PIKE  
HAMPSTEAD, MD 21074



VICINITY MAP  
1" = 2000'



CARROLL COUNTY SURVEY  
CONTROL  
BM#3: BUSHEL

FROM PROP. CORNER  
TO COUNTY MONUMENT  
S60°26'16"E BUSHEL  
2012.80'

SYSTEM SPECIFICATIONS	
PV MODULES	(2,374) x ASTRONERGY CHSM2M(DG)F-BH 540W
DC RATING (AT STC)	1,389,960 kWdc
INVERTERS	(4) x SOLECTRIA XGI-1500-200/200 200kWdc (1) x SOLECTRIA XGI-1500-200/200 200kWdc (DERATED TO 199kWdc EACH UL1741SB RATED)
TOTAL AC RATING	999,000 kWac (AGGREGATED) PF=1.0
DC:AC RATIO	1.391

**CARROLL COUNTY HEALTH DEPARTMENT**

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

COMMUNITY WATER AND / OR SEWERAGE SYSTEMS ARE IN CONFORMANCE WITH THE CARROLL COUNTY MASTER PLAN FOR WATER AND SEWER.

**SEDIMENT & EROSION CONTROL CERTIFICATIONS**

**OWNER / DEVELOPER**

I CERTIFY THAT THIS PLAN WILL BE IMPLEMENTED TO THE FULLEST EXTENT, AND ALL STRUCTURES WILL BE INSTALLED TO THE DESIGN AND SPECIFICATIONS AS SPELLED OUT IN THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THIS PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE EVALUATION BY THE CARROLL SOIL CONSERVATION DISTRICT PERSONNEL AND COOPERATING AGENCIES.

OWNER / DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**SOIL CONSERVATION DISTRICT**

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

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CARROLL S.C.D.

**ENGINEER**

I CERTIFY THAT THIS PLAN OF SEDIMENT CONTROL IS DESIGNED WITH MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND HAS BEEN DESIGNED TO THE STANDARDS AND SPECIFICATIONS ADOPTED BY THE CARROLL COUNTY SOIL CONSERVATION DISTRICT.

ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**CARROLL COUNTY PLANNING AND ZONING COMMISSION**

BY \_\_\_\_\_ DATE \_\_\_\_\_

**ENGINEER'S DESIGN CERTIFICATION**

I hereby certify that these plans have been designed according to Chapter 151 of the Code of Public Local Laws and Ordinances of Carroll County, and I hereby certify that these documents were prepared or approved by me, and I am a duly licensed Professional Engineer or Professional Land Surveyor, as appropriate, under the laws of the State of Maryland.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
LICENSE NO. \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

**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. \_\_\_\_\_, EXP. DATE: \_\_\_\_\_

**OWNER/DEVELOPER'S CERTIFICATION**

I HEREBY CERTIFY THAT ALL PROPOSED WORK SHOWN ON THESE CONSTRUCTION DRAWING(S) WILL BE CONDUCTED IN STRICT ACCORDANCE WITH THESE PLANS. I ALSO UNDERSTAND THAT IT IS MY RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED, INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, WITHIN (30) DAYS OF COMPLETION OF WORK ON THE STORMWATER MANAGEMENT FACILITY/FACILITIES. I ALSO CERTIFY THAT THESE STORMWATER MANAGEMENT FACILITY/FACILITIES WILL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, IN ACCORDANCE WITH SECTIONS 151.095 AND 151.096 OF THE CODE OF PUBLIC LAWS AND ORDINANCES OF CARROLL COUNTY.

OWNER / DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**OWNER'S CERTIFICATION**

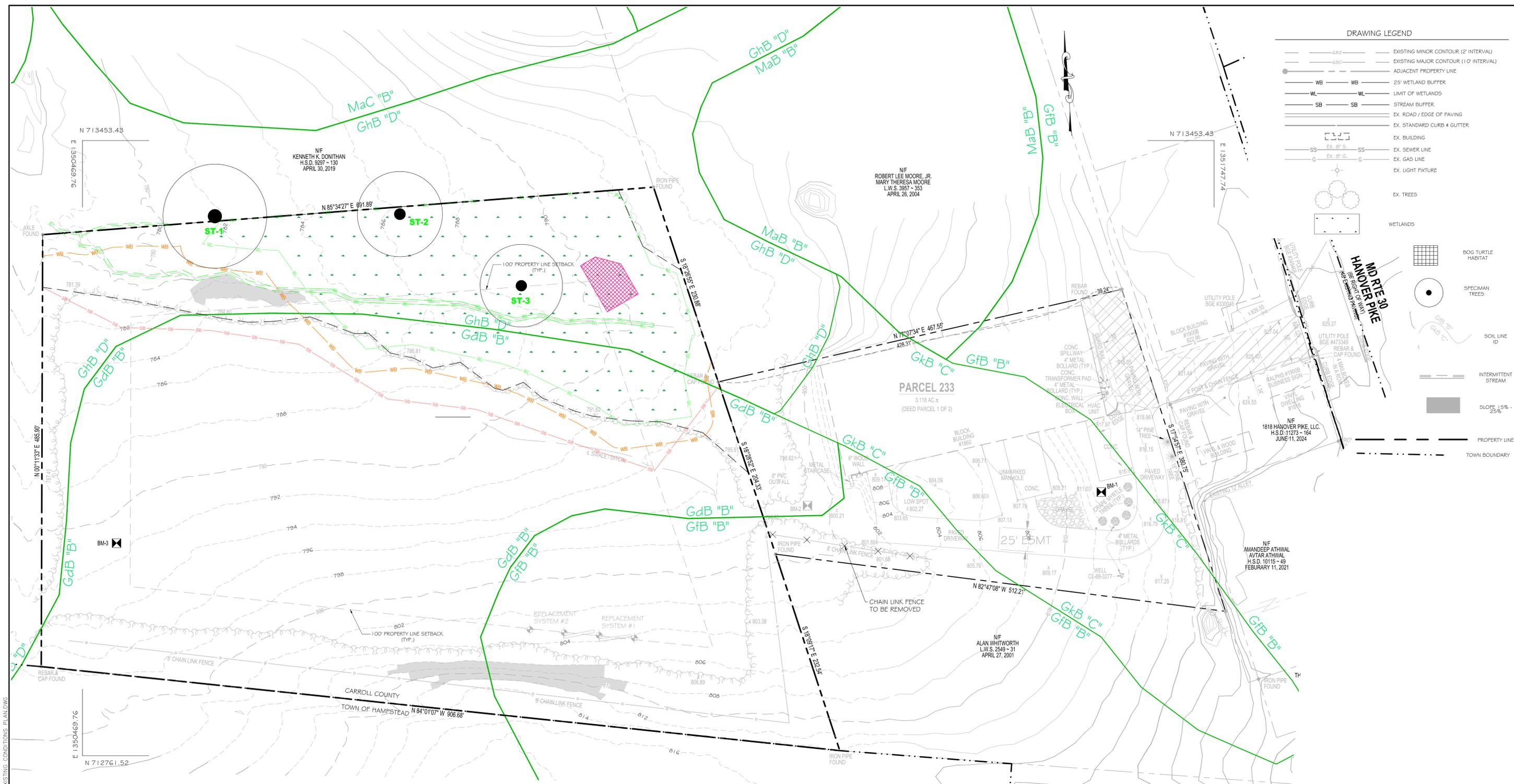
I/We hereby certify that all proposed work shown on these construction drawing(s) has been reviewed by me/us and that I/we fully understand what is necessary to accomplish this work and that the work will be conducted in strict accordance with these plans. I/We also understand that any changes to these plans will require an amended plan to be reviewed and approved by the Carroll County Planning and Zoning Commission before any change in the work is made.

Name(s) Printed \_\_\_\_\_ Date \_\_\_\_\_  
Signed \_\_\_\_\_ Date \_\_\_\_\_



<p><b>OWNER/ DEVELOPER</b> ACTIVE SOLAR DEVELOPMENT LLC 2189 COOK ROAD GALWAY, NY 12074 (800)865-3625</p>	<p><b>PROPERTY ADDRESS</b> 1900 HANOVER PIKE HAMPSTEAD, MD 21074</p>			<p><b>ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS</b></p> <p>936 RIDGEBROOK ROAD SHELBY, MARYLAND 21152 Telephone: (410) 316-7800 Fax: (410) 316-7818</p>	<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS				NO.	DATE	DESCRIPTION	BY																	<p>DATE 02/13/2026 SCALE DESIGNED BY DRAWN BY</p>	<p><b>COVER SHEET</b></p> <p><b>HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT</b></p> <p>8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND</p>	<p>DRAWING NO. <b>C-01</b> SHEET 1 OF 13 KCI JOB NUMBER 00052527_001</p>
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**DRAWING LEGEND**

	EXISTING MINOR CONTOUR (2' INTERVAL)
	EXISTING MAJOR CONTOUR (10' INTERVAL)
	ADJACENT PROPERTY LINE
	25' WETLAND BUFFER
	LIMIT OF WETLANDS
	STREAM BUFFER
	EX. ROAD / EDGE OF PAVING
	EX. STANDARD CURB & GUTTER
	EX. BUILDING
	EX. SEWER LINE
	EX. GAS LINE
	EX. LIGHT FIXTURE
	EX. TREES
	WETLANDS
	BOG TURTLE HABITAT
	SPECIMEN TREES
	SOIL LINE ID
	INTERMITTENT STREAM
	SLOPE 1.5% - 25%
	PROPERTY LINE
	TOWN BOUNDARY

**EXISTING CONDITIONS / DEMO PLAN**  
SCALE: 1" = 50'

**SOILS CHART**

CODE	NAME	K-VALUE	HYDRIC
GdB	GLENELG LOAM, 3%-8%	0.24	-
GhB	GLENVILLE URBAN LAND, 0%-8%	0.37	-
GhB	GLENVILLE SILT LOAM, 3%-8%	0.37	YES
GfB	GLENELG-URBAN LAND COMPLEX, 0% TO 8%	0.28	-



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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. \_\_\_\_\_ EXP. DATE: \_\_\_\_\_

**OWNER/ DEVELOPER**  
ACTIVE SOLAR DEVELOPMENT LLC  
2189 COOK ROAD  
GALWAY, NY 12074  
(800)865-3625

**PROPERTY ADDRESS**  
1900 HANOVER PIKE  
HAMPSTEAD, MD 21074



**ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS**

**KCI TECHNOLOGIES**  
936 RIDGEBROOK ROAD  
SEABY, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 02/13/2026  
SCALE: 1" = 50'  
DESIGNED BY: AM  
DRAWN BY: AM

**EXISTING CONDITIONS / DEMO PLAN**  
**HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT**  
8TH ELECTION DISTRICT  
CARROLL COUNTY, MARYLAND

DRAWING NO. **C-02**  
SHEET 2 OF 13  
KCI JOB NUMBER 00052527\_001



**CARROLL SCD SEDIMENT AND EROSION CONTROL NOTES**

- ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
- AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR SLOPES > 15%) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED. ACCELERATED STABILIZATION (E.G., SAME DAY STABILIZATION) MAY BE REQUIRED BASED ON SITE CHARACTERISTICS OR AS SPECIFIED BY THE APPROVAL AUTHORITY.
- FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION, SEE SHEET C-06.
- MULCHING ONLY CAN BE USED ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE SHEET C-06.
- FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION SEE SHEET C-06.
- THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATION IN SHEET C-06.
- THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
- NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES GREATER THAN 2:1 SHALL REQUIRE AN ENGINEERED DESIGN FOR STABILIZATION.
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE EVERY FOUR (4) DAYS AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

**DRAWING LEGEND**

LOD	LIMIT OF DISTURBANCE
EMC	EXISTING MINOR CONTOUR (2' INTERVAL)
EMC	EXISTING MAJOR CONTOUR (10' INTERVAL)
APL	ADJACENT PROPERTY LINE
WB	25' WETLAND BUFFER
WL	LIMIT OF WETLANDS
SB	STREAM BUFFER
EX	EX. ROAD / EDGE OF PAVING
EX	EX. LIGHT FIXTURE
EX	EX. STANDARD CURB & GUTTER
EX	EX. BUILDING
EX	EX. SEWER LINE
EX	EX. GAS LINE
PM	PROPOSED MINOR CONTOUR (2' INTERVAL)
PM	PROPOSED MAJOR CONTOUR (10' INTERVAL)
SC	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
CG	PROPOSED CURB & GUTTER
TM	TEMPORARY MULCH ROAD
PROP. W	PROPOSED WATER LINE
PROP. G	PROPOSED GAS LINE
X	PROPOSED FENCE
J	PROPOSED JERSEY BARRIER
S	PROPOSED STORM INLET
L	PROPOSED LIGHT FIXTURE
S	PROPOSED SIGN
T	EX. TREES
SS	PROP. SUPER SILT FENCE
SF	PROP. SILT FENCE
SFD	SILT FENCE DIVERSION
TP	TREE PROTECTION FENCE
WR	PROP. WASH RACK
B	BOG TURTLE HABITAT



**EROSION & SEDIMENT CONTROL PLAN**  
SCALE: 1" = 30'

NOTE: ALL STOCKPILES SHALL BE CONFINED WITH PERIMETER CONTROLS A MINIMUM 100' FROM STREAM BUFFER AND/OR MATERIALS SHALL BE REMOVED FROM THE WORK SITE.

LOC = 201,852  
LOD = 32,795

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FAX: (410) 316-7818

REVISIONS		DATE
NO.	DATE	DESCRIPTION

DATE: 02/13/2026  
SCALE: 1" = 30'  
DESIGNED BY: AM  
DRAWN BY: AM

**EROSION & SEDIMENT CONTROL PLAN**  
**HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT**

8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND

**C-04**  
SHEET 4 OF 13  
KCI JOB NUMBER 00052527\_001

C.C.FILE#: S-25-0032

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**GENERAL NOTES**

**B-4-2 STANDARDS AND SPECIFICATIONS 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 RIPPER MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
    - 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. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
      - 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. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
      - 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. RAKE LAWN AREAS TO SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

- B. TOPSOILING**
1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
  2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
  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 VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
    - D. THE SOIL IS SO ACIDIC THAT TREATMENT 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. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.
    - B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
    - C. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
  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. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
    - 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.

- C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)**
1. 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. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
  2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
  3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
  4. 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.
  5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 5 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

**B-4-3 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. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.
    - B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.
    - 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. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING.
    - NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
    - 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 (1-4 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
  2. APPLICATION
    - A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
      - I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
      - II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
    - B. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.
      - I. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
      - II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
    - C. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
      - I. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P2O5 (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.
      - II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.
      - III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.
      - IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

**B. MULCHING**

1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
  - A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
  - B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
    - I. 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.
    - II. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
    - III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
    - IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
    - V. 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. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
  - C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
3. ANCHORING
  - A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:
    - 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. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.
    - II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
    - 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. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH. SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED.
    - IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

**B-4-4 STANDARDS AND SPECIFICATIONS 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.  
**CONDITION WHERE PRACTICE APPLIES** - EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

**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. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
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.

**B-4-5 STANDARDS AND SPECIFICATIONS 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, ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
    - 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 RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1000 SQUARE FEET (1150 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. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
      - i. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
      - ii. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
      - 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. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 5 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
      - iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.

**NOTES:** SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #777, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.

- 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)  
 CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 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. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
  - E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS 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. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.
- B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).**

- 1. GENERAL SPECIFICATIONS**
- A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
  - B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
  - C. STANDARD SIZE SECTIONS OF SOD MUST BE SUFFICIENT ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
  - D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
  - E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

- 2. SOD INSTALLATION**
- A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
  - B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
  - C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SUIPAGE ON SLOPES. ENSURE SOIL CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
  - D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
- 3. SOD MAINTENANCE**
- A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
  - B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
  - C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/2 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

**PERMANENT SEEDING NOTES**  
 SCOPE: PLANTING PERMANENT, LONG LIVED VEGETATIVE COVER ON GRADED AND/OR CLEARED AREAS AND AREAS THAT HAVE BEEN IN TEMPORARY VEGETATION FOR MORE THAN 6 MONTHS.

**STANDARDS:** THE FOLLOWING NOTES SHALL CONFORM TO SECTION B-4 OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY THE MARYLAND DEPARTMENT OF ENVIRONMENT - WATER MANAGEMENT ADMINISTRATION, THE NATIONAL RESOURCE CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS.

THE SEED BED SHALL BE PREPARED BY LOOSENING THE SOIL TO A DEPTH OF 3 TO 5 INCHES AND INCORPORATING THE LIME AND FERTILIZER INTO THIS LOOSENED LAYER OF SOIL. SEE SECTION B-4-2.

FOR SITES OVER 5 AC. SOIL TESTS WILL BE PERFORMED. SOIL TESTS WILL BE CONDUCTED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. MINIMUM SOIL CONDITIONS SHALL MEET THE REQUIREMENTS OF SECTION B-4-2-A-2-A, OTHERWISE SOIL AMENDMENTS OR TOPSOIL WILL NEED TO BE APPLIED. TOPSOILING MAY OCCUR WHEN SOIL CONDITIONS MEET THE MINIMUM REQUIREMENTS AS STATED IN SECTION B-4-2-B. SOIL AMENDMENTS MUST MEET THE REQUIREMENTS AS SET FORTH IN SECTION B-4-2-C AND MUST BE APPLIED AS INDICATED BY THE SOILS TESTS.

FOR SITES OF 5 AC. OR LESS OF DISTURBANCE, THE FOLLOWING FERTILIZER AND LIME RATES SHALL APPLY. FERTILIZER SHALL CONSIST OF A MIXTURE OF 10-20-20 AND BE APPLIED AT THE FOLLOWING RATES: N = 45 LB. PER ACRE (1 LB. PER 1000 SQ.FT.) P2O5 = 90 LB. PER ACRE (2 LB. PER 1000 SQ.FT.) K2O = 90 LB. PER ACRE (2 LB. PER 1000 SQ.FT.) LIME SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE (90 LB. PER 1000 SQ.FT.)

SEED TYPE, TURFGRASS OR SOD APPLICATION SHALL MEET THE REQUIREMENTS IN SECTION B-4-5. SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY THE TYPE AND APPLICATION RATE OF SEED USED. MULCH TYPE AND ITS APPLICATION WILL MEET THE REQUIREMENTS IN SECTION B-4-3 A, B AND C, AND WILL BE APPLIED ALONG WITH SEED OR IMMEDIATELY AFTER SEEDING

SEEDING MIXTURES SHALL BE SELECTED FROM OR WILL BE EQUAL TO THOSE ON TABLE B-3. PERMANENT SEEDING SUMMARY

		HARDINESS ZONE (FROM FIGURE B.3): SEED MIXTURE (FROM TABLE B.1)			FERTILIZER RATE (10-20-20)	LIME RATE	
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DATES	N	P2O5	K2O
1	TALL FESCUE 65%	125	3/1 TO 5/15	8/15 TO 12	453 LB/AC (10 LB/1000 SF)	90 LB/AC (2 LB/1000 SF)	2 TONS/AC (90 LB/1000 SF)
	PERENNIAL RYEGRASS 10%	15	3/1 TO 5/15	8/15 TO 12			
	KENTUCKY BLUEGRASS 5%	10	3/1 TO 5/15	8/15 TO 12			

**TEMPORARY SEEDING NOTES**

SCOPE: PLANTING SHORT TERM (NO MORE THAN 6 MONTHS) VEGETATION TO TEMPORARILY STABILIZE ANY AREAS WHERE SOIL DISTURBANCE HAS OCCURRED, UNTIL THE AREA CAN BE PERMANENTLY STABILIZED WITH VEGETATIVE OR NON-VEGETATIVE PRACTICES.

**STANDARDS:** THE FOLLOWING NOTES SHALL CONFORM TO SECTION B-4 OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY THE MARYLAND DEPARTMENT OF ENVIRONMENT - WATER MANAGEMENT ADMINISTRATION, THE NATIONAL RESOURCE CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS.

THE SEED BED SHALL BE PREPARED BY LOOSENING THE SOIL TO A DEPTH OF 3 TO 5 INCHES AND INCORPORATING THE LIME AND FERTILIZER INTO THIS LOOSENED LAYER OF SOIL. SEE SECTION B-4-2

FOR TEMPORARY STABILIZATION, FERTILIZER SHALL CONSIST OF A MIXTURE OF 10-20-20 AND BE APPLIED AT A RATE OF 453 LB. PER ACRE (10 LB. PER 1000 SQ. FT.) AND WILL MEET THE REQUIREMENTS IN SECTION B-4-2. LIME SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE (90 LB. PER SQ. FT.) AND SHALL MEET THE REQUIREMENTS IN SECTION B-4-2 AND B-4-4

SEED TYPE AND APPLICATION SHALL MEET THE REQUIREMENTS IN SECTION B-4-3 SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY THE TYPE AND RATE OF SEED USED. MULCH TYPE AND ITS APPLICATION WILL MEET THE REQUIREMENTS IN SECTION B-4-3 A, B AND C AND WILL BE APPLIED ALONG WITH THE SEED OR IMMEDIATELY AFTER SEEDING

SEEDING MIXTURES SHALL BE SELECTED FROM OR WILL BE EQUAL TO THOSE ON TABLE B.1 (PAGE B.20).

TEMPORARY SEEDING SUMMARY

		HARDINESS ZONE (FROM FIGURE B.3): SEED MIXTURE (FROM TABLE B.1)			FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DATES	N	P2O5	K2O	
1	ANNUAL RYEGRASS	50	2/1 TO 4/30	8/15 TO 11/1	45 POUNDS PER ACRE (11.0 LB/1000 SF)	90 LB/AC (2 LB/1000 SF)	2 TONS/AC (90 LB/1000 SF)	
			1/4 - 12 IN.					

- TIER II NOTES:**
- TO MAXIMUM EXTENT PRACTICABLE ACTIVITIES SHOULD TAKE PLACE DURING TIMES WHEN SEDIMENT TRANSPORT ARE LIKELY TO BE LOWER AS PREDICTED BY NOAA 1 OR 3 CLEAR DAY FORECAST.
  - CONDUCT INSPECTIONS DAILY. LOG BOOKS MAY BE REVIEWED.
  - SIGNAGE AND FLAGGING WITHIN BUFFER ZONE. SIGN TEXT: TIER II PRACTICES: HIGH QUALITY WATERS EROSION & SEDIMENT CONTROL MEASURES STRICTLY ENFORCED & MONITORED
  - VEHICLES OPERATING WITHIN THE STREAM BUFFER MUST CARRY OIL/GAS/GREASE CLEAN UP KITS FOR SPILL ACCIDENTS.

OWNER/DEVELOPER: ACTIVE SOLAR DEVELOPMENT LLC  
 2189 COOK ROAD  
 GALWAY, NY 12074  
 (800) 865-3625

PROPERTY ADDRESS: 1900 HANOVER PIKE  
 HAMPSTEAD, MD 21074

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. \_\_\_\_\_, EXP. DATE: \_\_\_\_\_

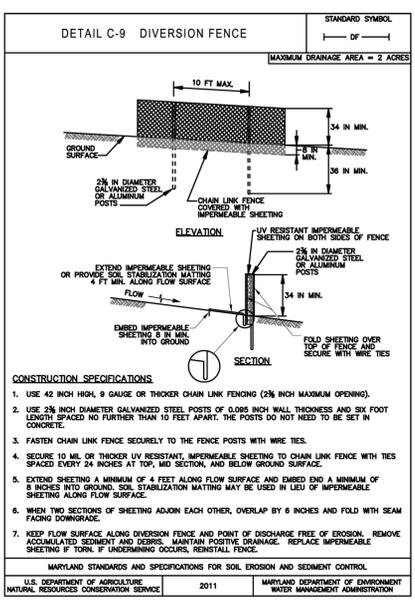
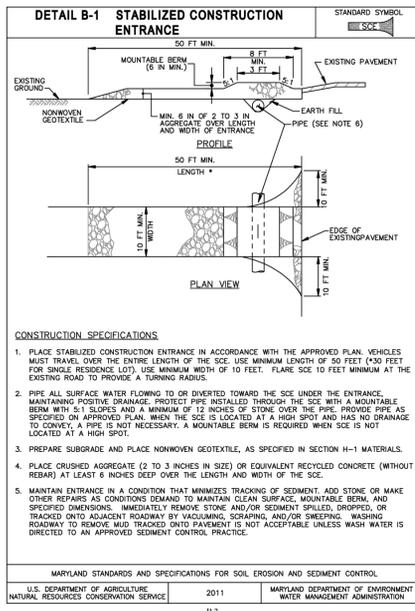
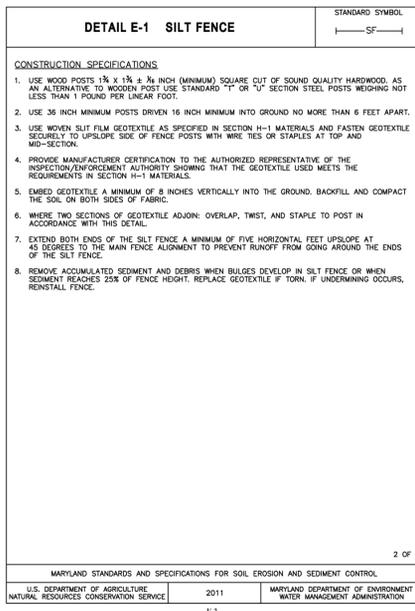
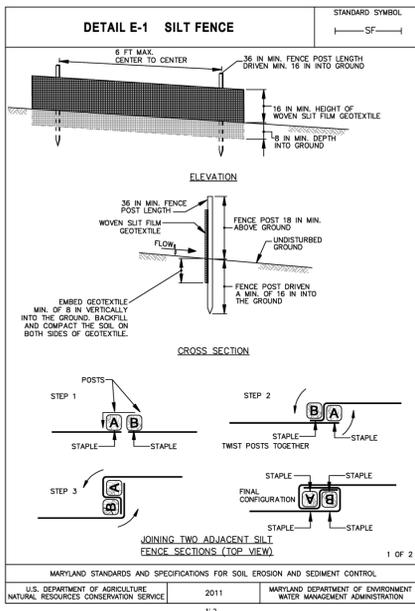
ACTIVE SOLAR DEVELOPMENT LLC  
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ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS

KCI TECHNOLOGIES  
 936 RIDGEWOOD ROAD  
 SUITES, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818



**GENERAL SEQUENCE OF CONSTRUCTION**

- NOTIFY CARROLL COUNTY SEDIMENT CONTROL 24-HOURS PRIOR TO BEGINNING WORK AT 410-386-2210 FOR A PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL CONTACT BUREAU OF UTILITIES AT 410-386-2164 AND HAMPSTEAD WASTEWATER TREATMENT PLANT SUPERINTENDENT AT 443-244-2211 AT LEAST 48 HOURS PRIOR TO STARTING WORK.
  - INSTALL STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY MULCH ROAD & PERIMETER SEDIMENT CONTROL MEASURES.
  - IMPORT APPROVED TOP SOIL OR AMENDED SITE SOILS TO SPECIFICATIONS. PERMANENTLY STABILIZE SITE AND ESTABLISH 4" STAND OF GRASS TO SATISFACTION TO STORMWATER MANAGEMENT INSPECTOR.
  - WITH PERMISSION OF STORMWATER MANAGEMENT INSPECTOR CONTINUE SITE IMPROVEMENTS INCLUDING INSTALLATION OF SOLAR PANELS, SITE ACCESS ROAD AND FENCE PER PLAN. DISTURBANCE AREAS ARE TO BE STABILIZED IMMEDIATELY. REFER TO SHEET C-08 FOR SWM SEQUENCE OF CONSTRUCTION.
- NOTE: SHOULD SOLAR RACKING SYSTEM POSTS BE AUGERED INTO PLACE, SPOIL SHALL BE (OPTION 1) COLLECTED AND SPREAD IN ONE CENTRAL LOCATION ONSITE WITHIN LIMIT OF DISTURBANCE THEN IMMEDIATELY PERMANENTLY STABILIZED OR (OPTION 2) REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR, REMOVE PERIMETER SEDIMENT CONTROL MEASURES. PERMANENTLY STABILIZE ANY REMAINING DISTURBANCE.
  - SUBMIT STORMWATER MANAGEMENT AS-BUILTS.

**SITE ANALYSIS**

TOTAL AREA OF SITE: 10.13 ACRES  
 LIMIT OF DISTURBANCE: 4.63 ACRES  
 LIMIT OF CONSTRUCTION: 0.75 ACRES  
 TOTAL CUT: 27 CY  
 TOTAL FILL: 27 CY

NOTE: CUT/FILL QUANTITIES SHOWN HERE ON FOR REFERENCE PURPOSED ONLY. CONTRACTOR TO INDEPENDENTLY VERIFY QUANTITIES.

**DAILY STABILIZATION NOTE**

THIS NOTE SHOULD BE USED FOR MINIMAL AREAS WITHIN THE LIMITS OR DISTURBANCE THAT DO NOT DRAIN TO A SEDIMENT CONTROL MEASURE AND/OR WHERE THE INSTALLATION OF SEDIMENT CONTROLS IS NOT FEASIBLE. (ROAD WIDENING, SIDEWALK INSTALLATION, ETC.).

- CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE STABILIZED BY THE END OF EACH WORK DAY. STABILIZATION SHALL BE AS FOLLOWS:
- FOR AREAS TO BE PAVED, THE APPLICATION OF STONE.
  - FOR AREAS TO BE VEGETATIVELY STABILIZED:
    - PERMANENT SEED, AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS \ OR SWALES.
    - PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.
- ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWNSLOPE SIDE.

**MAINTENANCE NOTE**

SILT FENCE, SUPER SILT FENCE, SUPER FENCE DIVERSION AND INLET PROTECTION SHALL BE INSPECTED AND MAINTAINED EACH DAY AND AFTER EACH RAINFALL. MAINTENANCE TO INCLUDE BUT NOT BE LIMITED TO REMOVAL OF ALL ACCUMULATED SEDIMENT, GEOTEXTILE SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

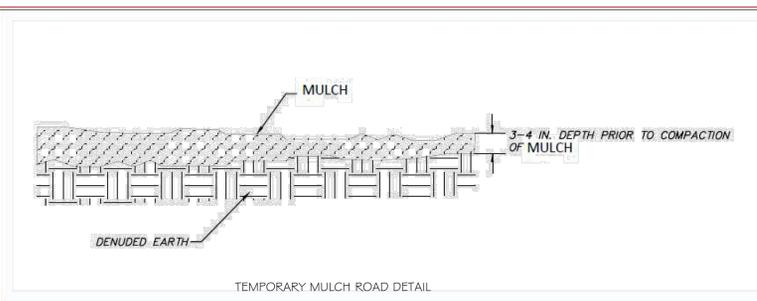
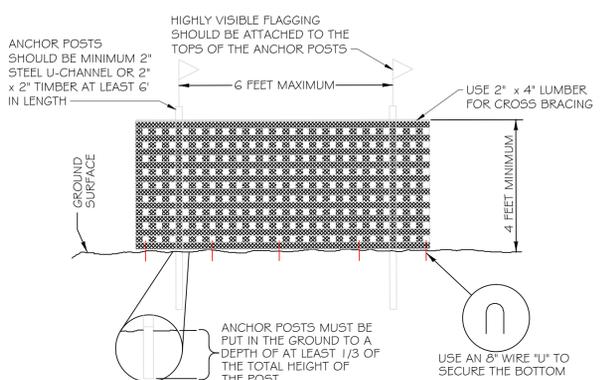
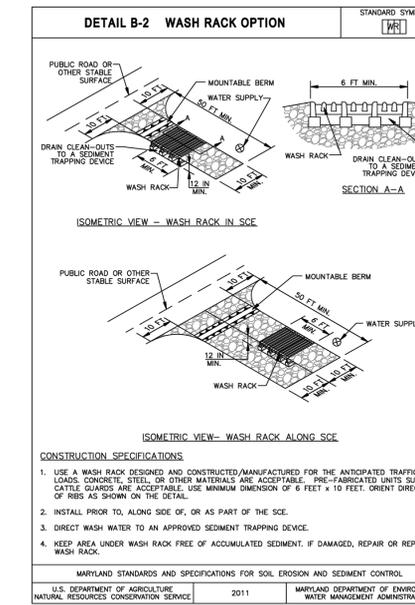
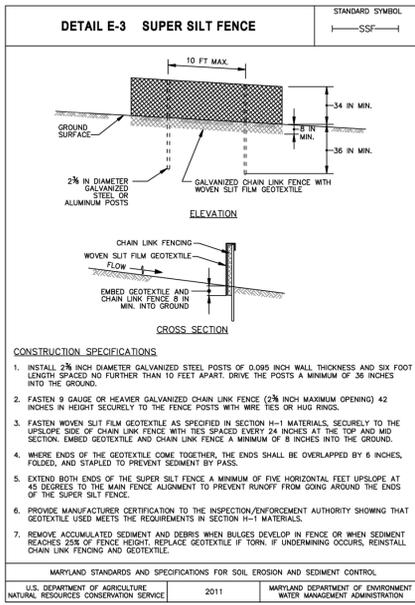
**UTILITY NOTE**

- CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWNSLOPE OF) THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

**TEMPORARY STOCKPILE NOTE**

TEMPORARY STOCKPILES SHALL BE:

- LOCATED WITHIN THE LIMIT OF DISTURBANCE (LOD).
- DRAIN TO FUNCTIONING SEDIMENT CONTROL DEVICE.
- POSITIONED TO NOT IMPEDE UPON, OR IMPAIR THE FUNCTION OF SAID DEVICE.
- POSITIONED TO NOT ALTER DRAINAGE DIVIDES.



**CONSTRUCTION SPECIFICATIONS:**

- ENSURE THAT THE GROUND IS DRY AND COMPACTED PRIOR TO PLACING MULCH.
- SPREAD AND COMPACT TO A MINIMUM DEPTH OF 3 TO 4."
- DURING CONSTRUCTION REPLENISH MULCH AS NEEDED.

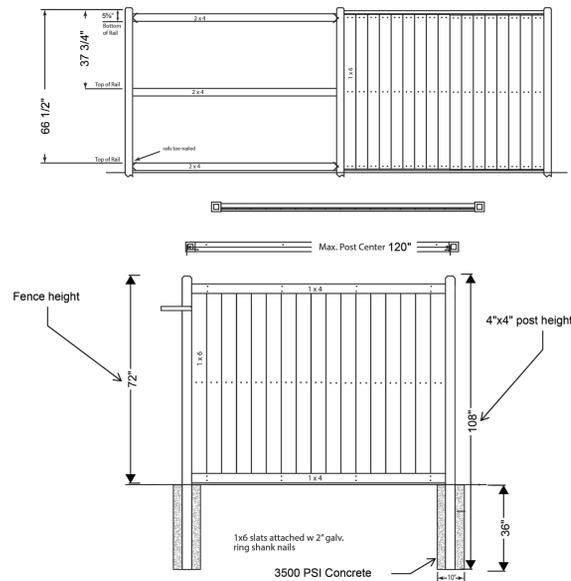
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OWNER/ DEVELOPER ACTIVE SOLAR DEVELOPMENT LLC 2189 COOK ROAD GALWAY, NY 12074 (800)865-3625	PROPERTY ADDRESS 1900 HANOVER PIKE HAMPSTEAD, MD 21074		ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 936 RIDGEBROOK ROAD SUITES, MARYLAND 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818	REVISIONS NO. DATE DESCRIPTION BY	DATE 02/13/2026 SCALE N.T.S. DESIGNED BY AM DRAWN BY AM	EROSION & SEDIMENT CONTROL DETAILS HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT 8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND	DRAWING NO. C-06 SHEET 6 OF 13 PLO JOB NUMBER 00052527_001 C.C.FILE#: 5-25-0032
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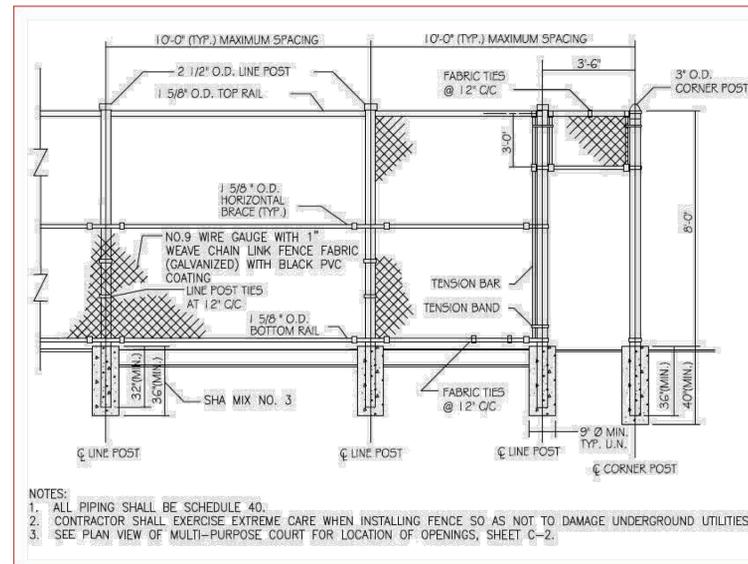
**SOLAR ENERGY GENERATING SYSTEM: PROPERTY OWNER/OPERATOR: HAMPSTEAD COMMUNITY ENERGY INITIATIVE, LLC. 24-HOUR EMERGENCY PHONE #: (800)865-3625**

SOLAR SIGN  
N.T.S.

MINI-WINDS FENCE w/o TOP CAP

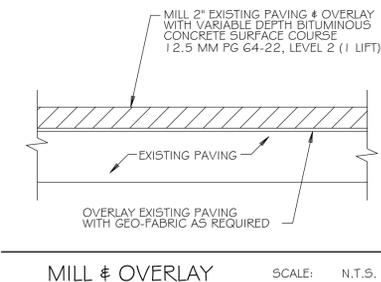


WOODEN PRIVACY FENCE  
N.T.S.

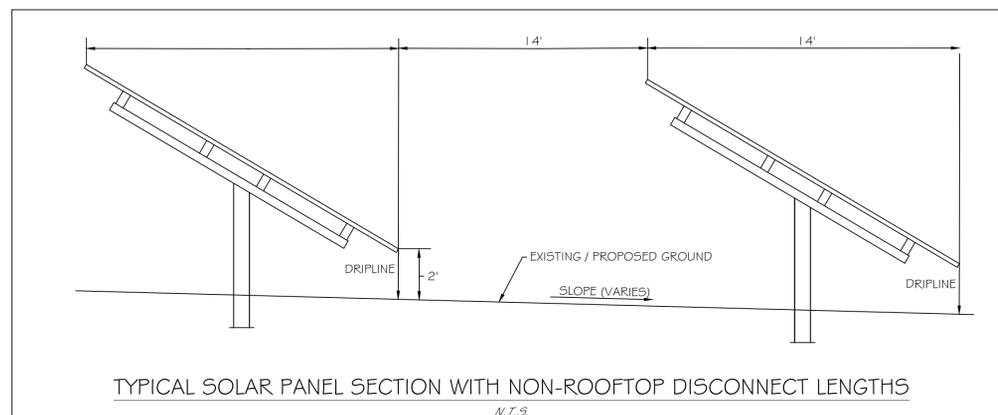


BLACK VINYL MESH CHAIN LINK FENCE  
N.T.S.

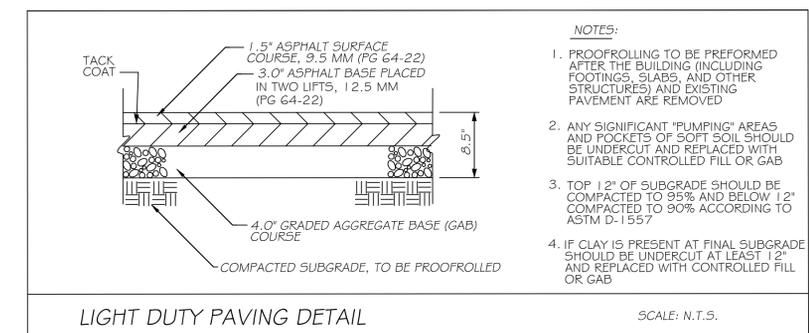
- NOTES:
1. ALL PIPING SHALL BE SCHEDULE 40.
  2. CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN INSTALLING FENCE SO AS NOT TO DAMAGE UNDERGROUND UTILITIES.
  3. SEE PLAN VIEW OF MULTI-PURPOSE COURT FOR LOCATION OF OPENINGS, SHEET C-2.



MILL & OVERLAY SCALE: N.T.S.



TYPICAL SOLAR PANEL SECTION WITH NON-ROOFTOP DISCONNECT LENGTHS  
N.T.S.



LIGHT DUTY PAVING DETAIL SCALE: N.T.S.

- NOTES:
1. PROOFROLLING TO BE PERFORMED AFTER THE BUILDING (INCLUDING FOOTINGS, SLABS, AND OTHER STRUCTURES) AND EXISTING PAVEMENT ARE REMOVED
  2. ANY SIGNIFICANT "PUMPING" AREAS AND POCKETS OF SOFT SOIL SHOULD BE UNDERCUT AND REPLACED WITH SUITABLE CONTROLLED FILL OR GAB
  3. TOP 12" OF SUBGRADE SHOULD BE COMPACTED TO 95% AND BELOW 12" COMPACTED TO 90% ACCORDING TO ASTM D-1557
  4. IF CLAY IS PRESENT AT FINAL SUBGRADE SHOULD BE UNDERCUT AT LEAST 12" AND REPLACED WITH CONTROLLED FILL OR GAB

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OWNER/ DEVELOPER ACTIVE SOLAR DEVELOPMENT LLC 2189 COOK ROAD GALWAY, NY 12074 (800)865-3625	PROPERTY ADDRESS 1900 HANOVER PIKE HAMPSTEAD, MD 21074
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REVISIONS				DATE
NO.	DATE	DESCRIPTION	BY	
				02/13/2026

DESIGNED BY: AM  
DRAWN BY: AM  
SCALE: N.T.S.

SITE DETAIL SHEET  
HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT  
8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND

DRAWING NO.  
C-07  
SHEET 7 OF 13  
JOB NUMBER:  
00052527\_001

C.C.FILE#: 5-25-0032



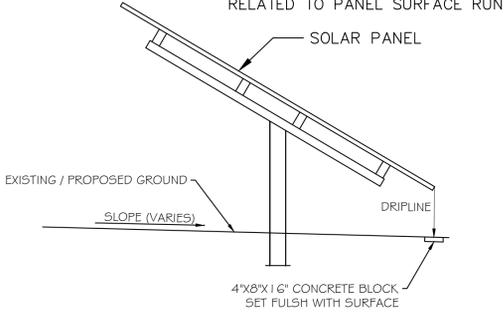
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SCALE: 1"=100'

SWM SITE MAP  
SCALE 1" = 100'

STORMWATER MANAGEMENT SUMMARY: IT IS PROPOSED TO INSTALL A SERIES OF SOLAR PANELS AT THIS SITE, LOCATED AT 1900 HANOVER PIKE, IN CARROLL COUNTY MD. THERE ARE NO EXISTING IMPERVIOUS AREAS WITHIN THE SITE AREA AS SHOWN ON THE SITE MAP ABOVE. SINCE EX. IMPERVIOUS IS LESS THAN 40%, THIS SITE WILL FOLLOW NEW DEVELOPMENT CRITERIA. THE INSTALLATION OF THE SOLAR PANELS WILL FOLLOW MDE DESIGN CRITERIA FOR SOLAR ARRAYS. THE SOLAR PANELS ARE 14' WIDE AND THEY ARE SPACED 14' APART. THE DRIP EDGE WILL BE PROTECTED WITH DRIP STONE. AS REQUIRED AN UNOBSTRUCTED 18" IMPROVED SURFACED ACCESS ROAD IS BEING PROVIDED TO THIS SITE. IT IS PROPOSED TO USE NDS-PERMEABLE PAVERS WITH REINFORCED TURF FOR THE ACCESS ROAD. THE ONLY NEW IMPERVIOUS AREAS WILL BE THE PADS FOR THE ELECTRICAL EQUIPMENT WHICH ARE ALL LESS THAN 25 SQ. FT. THEY WILL BE DISCONNECTED PRIOR TO REACHING THE STREAM. SINCE ALL IMPERVIOUS RUNOFF IS TREATED BY NON-ROOFTOP DISCONNECT BY ESTABLISHING 4" STAND OF GRASS PRIOR TO CONSTRUCTION AND BY MAINTAINING THE VEGETATION THROUGHOUT AND AFTER CONSTRUCTION WILL PROVIDE THE BEST OPPORTUNITY TO MAINTAIN SHEET FLOW CONDITION AND PROMOTE NATURAL HYDRAULIC RUNOFF CHARACTERISTICS THIS MEETING THE PRIMARY PURPOSE OF THE MARYLAND STORMWATER MANAGEMENT PROGRAM IN ACCORDANCE WITH THE MANUAL AND SUPPLEMENT. THIS SITE MEETS THE ESD REQUIREMENTS TO THE MAXIMUM EXTENT PRACTICABLE. SUBSEQUENTLY WITH NO CHANGE IN PRE-DEVELOPED LAND USE TO POST DEVELOPMENT, QUANTITY MANAGEMENT IS NOT SPECIFICALLY REQUIRED. THIS SITE MEETS THE INTENT OF THE GUIDELINES SET FORTH IN THE CARROLL COUNTY STORMWATER MANAGEMENT ORDINANCE.

CODE	NAME	K-VALUE	HYDRIC
GdB	GLENELG LOAM, 3%-8%	0.24	-
GkB	GLENVILLE URBAN LAND, 0%-8%	0.37	-
GhB	GLENVILLE SILT LOAM, 3%-8%	0.37	YES
GfB	GLENELG-URBAN LAND COMPLEX, 0% TO 8%	0.28	-

NOTE:  
DRIP EDGE PROTECTION TO BE INSTALLED IN AREAS OF PERSISTENT EROSION RELATED TO PANEL SURFACE RUNOFF



DRIP EDGE EROSION PROTECTION DETAIL

STAGE *	EROSION SEDIMENT CONTROL / SWM PHASE	INSPECTOR'S APPROVAL*	
		KCI	DATE
1.	INSTALL STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY MULCH ROAD AND ESTABLISH 4" STAND OF GRASS FOR ALL AREAS RECEIVING SOLAR PANEL RUNOFF.		
2.	INSTALL SOLAR ARRAY GRID		
3.	PERMANENTLY STABILIZE ANY DISTURBANCE DURING CONSTRUCTION. VERIFY ESTABLISHMENT/MAINTAINING OF 4" STAND OF GRASS AFTER CONSTRUCTION. REMOVE TEMPORARY MULCH ROAD AND INSTALL NDS PERMEABLE PAVERS / EZ ROLL GRASS FAVER.		
4.	SUBMIT AS-BUILT PAPER PRINTS TO CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT WITHIN 60 DAYS OF CONSTRUCTION COMPLETION.		

\*PLEASE NOTIFY CERTIFYING ENGINEER / GEOTECHNICAL ENGINEER 48 HOURS PRIOR COMMENCING CONSTRUCTION AND AT EACH STEP LISTED ABOVE. GEOTECHNICAL ENGINEER TO BE CONTRACTED BY ENGINEER IN CHARGE.  
ENGINEER'S NAME: MATTHEW SICHEL PHONE NUMBER: (410) 316 - 7898

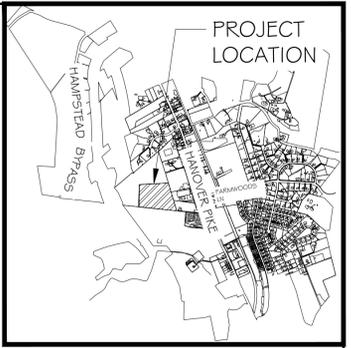
STORMWATER MAINTENANCE SCHEDULE  
NON-ROOFTOP DISCONNECTION  
"WIDE SHOULDER TECHNIQUE"  
MODIFIED TO CORRESPOND TO CARROLL COUNTY DETAILS

MONTHLY INSPECTION		
Inspection Item	Inspection Requirements	Remedial Action
Vegetative Cover and Erosion	Check for vegetation over 4" height. Check disconnection area for channelizing and bare spots.	Mow grass/remove trees and shrubs. Re-grade if concentrated flow is causing rills or gully on surface. Re-seed as necessary.
SEASONAL INSPECTION AND AFTER A MAJOR STORM		
Inspection Item	Inspection Requirements	Remedial Action
Inflow	Ensure sheet flow from pavement to grass shoulder disconnection area.	Remove debris, vegetation, regrade and re-seed as necessary to ensure sheet flow from pavement.
Dewatering	Check for soft areas and/or soil saturated to the surface.	Check slotted pipe, rodent guards and eliminate blockages. If necessary, excavate, remove and replace stone and slotted pipe.
ANNUAL INSPECTION		
Inspection Item	Inspection Requirements	Remedial Action
Overall Function of Disconnection	Check that grass disconnection is operating as designed.	Repair to good condition according to specifications on the approved plans.

Engineer's "As-Built" Certification

I hereby certify that the facility/facilities shown on this/these plan(s) was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that this/these facilities were inspected in accordance with Sections § 151.095 and § 151.096 of the Code of Public Local Laws and Ordinances of Carroll County and I hereby certify that these documents were prepared or approved by me, and I am a duly licensed Professional Engineer or Professional Land Surveyor, as appropriate, under the laws of the State of Maryland.

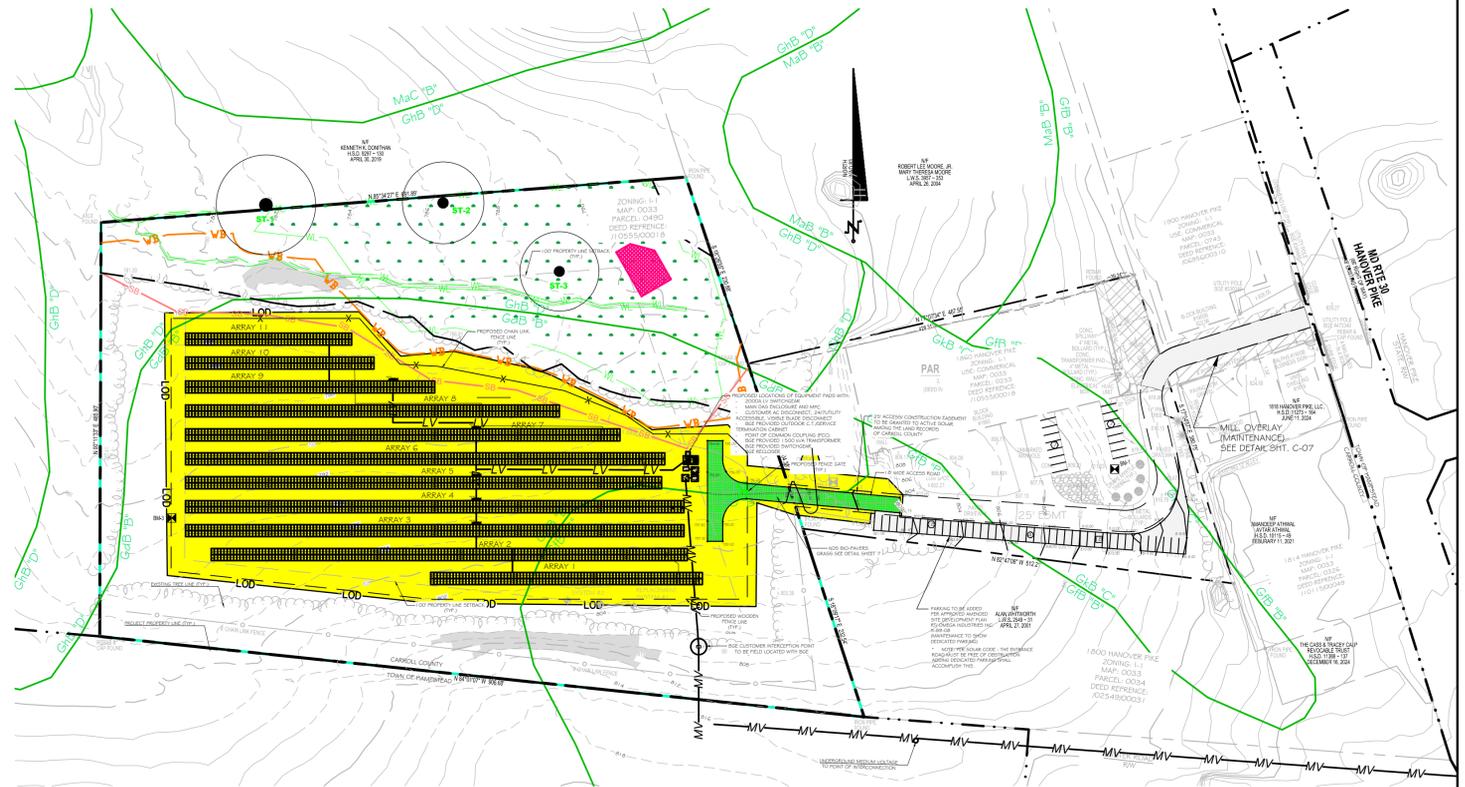
Signed \_\_\_\_\_ Date \_\_\_\_\_  
License No. \_\_\_\_\_ Expiration Date \_\_\_\_\_



VICINITY MAP  
1" = 2000'

LEGEND

- WOODS
- UNGRAZED MEADOWS
- IMPERVIOUS
- NEW IMPERVIOUS
- ROW CROPS
- GRASS
- D.A. BOUNDARY DESIGNATION
- SOIL LINE/GROUP
- D.A. DESIGNATION



ESD SITE MAP  
SCALE 1" = 100'

BY: TONY MEYERS; FILE: M:\2025\00052527\_001.DRAWINGS\SDP\_CONCEPT\0052527\_001.STORMWATER\_MANAGEMENT\_ESD\_PLAN.DWG

OWNER/ DEVELOPER  
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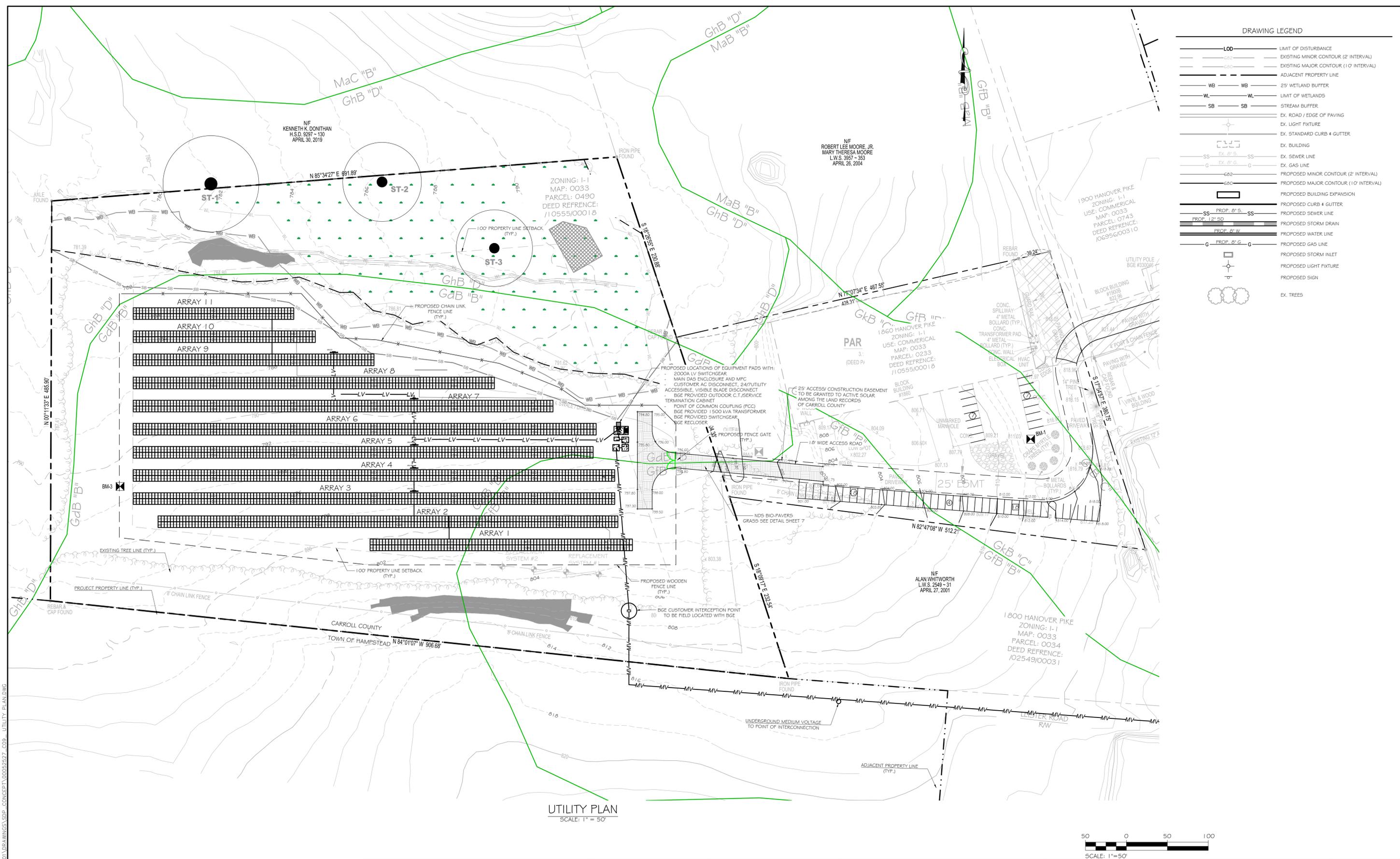
REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 02/13/2026  
SCALE: 1" = 50'  
DESIGNED BY: AM  
DRAWN BY: AM

STORMWATER MANAGEMENT ESD PLAN  
HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT

8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND

DRAWING NO. C-08  
SHEET 8 OF 13  
KCI JOB NUMBER 00052527\_001  
C.C. FILE#: S-25-0032



**DRAWING LEGEND**

---	LOD	---	LIMIT OF DISTURBANCE
---	EM-2	---	EXISTING MINOR CONTOUR (2' INTERVAL)
---	EM-10	---	EXISTING MAJOR CONTOUR (10' INTERVAL)
---	---	---	ADJACENT PROPERTY LINE
---	WB	---	25' WETLAND BUFFER
---	WL	---	LIMIT OF WETLANDS
---	SB	---	STREAM BUFFER
---	---	---	EX. ROAD / EDGE OF PAVING
---	---	---	EX. LIGHT FIXTURE
---	---	---	EX. STANDARD CURB + GUTTER
---	---	---	EX. BUILDING
---	SS	---	EX. SEWER LINE
---	G	---	EX. GAS LINE
---	---	---	PROPOSED MINOR CONTOUR (2' INTERVAL)
---	---	---	PROPOSED MAJOR CONTOUR (10' INTERVAL)
---	---	---	PROPOSED BUILDING EXPANSION
---	---	---	PROPOSED CURB + GUTTER
---	SS	---	PROPOSED SEWER LINE
---	---	---	PROPOSED STORM DRAIN
---	---	---	PROPOSED WATER LINE
---	G	---	PROPOSED GAS LINE
---	---	---	PROPOSED STORM INLET
---	---	---	PROPOSED LIGHT FIXTURE
---	---	---	PROPOSED SIGN
---	---	---	EX. TREES

**UTILITY PLAN**  
SCALE: 1" = 50'



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TELEPHONE: (410) 316-7800  
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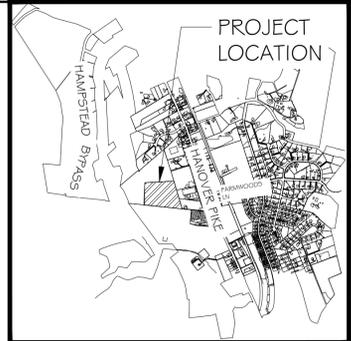
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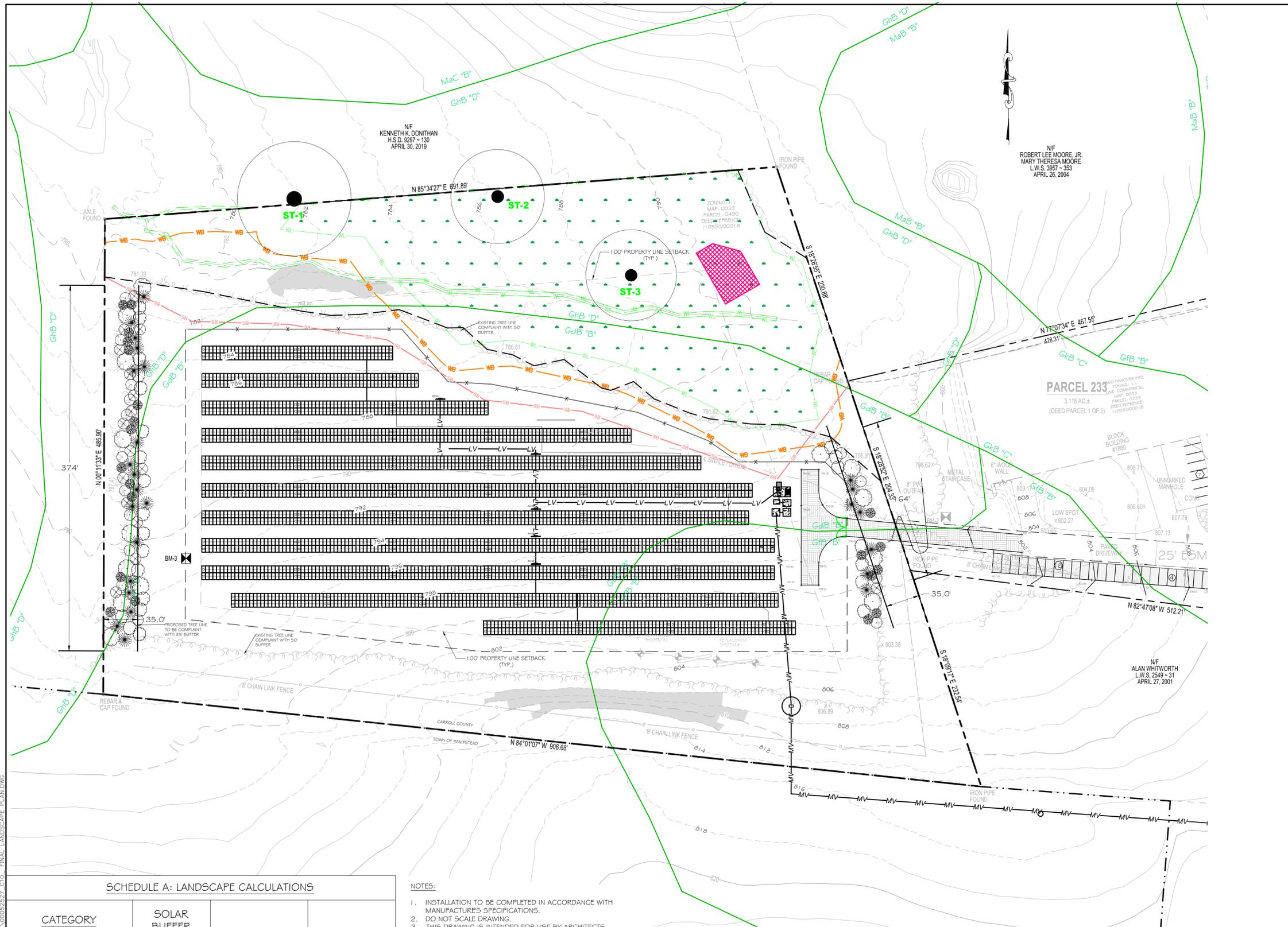
**UTILITY PLAN**  
**HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT**  
8TH ELECTION DISTRICT  
CARROLL COUNTY, MARYLAND

DRAWING NO.  
**C-09**  
SHEET 9 of 13  
KCI JOB NUMBER  
00052527\_001

PLOTTED: 2/13/2026 11:15 AM  
BY: TONY MEYERS  
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VICINITY MAP  
1" = 2000'



**DRAWING LEGEND**

	EXISTING MINOR CONTOUR (2' INTERVAL)
	EXISTING MAJOR CONTOUR (10' INTERVAL)
	ADJACENT PROPERTY LINE
	25' WETLAND BUFFER
	LIMIT OF WETLANDS
	STREAM BUFFER
	EX. ROAD / EDGE OF PAVING
	EX. LIGHT FIXTURE
	EX. STANDARD CURB & GUTTER
	EX. BUILDING
	EX. SEWER LINE
	EX. GAS LINE
	PROPOSED MINOR CONTOUR (2' INTERVAL)
	PROPOSED MAJOR CONTOUR (10' INTERVAL)
	PROPOSED BUILDING EXPANSION
	PROPOSED CURB & GUTTER
	PROPOSED SEWER LINE
	PROPOSED STORM DRAIN
	PROPOSED WATER LINE
	PROPOSED GAS LINE
	PROPOSED STORM INLET
	PROPOSED LIGHT FIXTURE
	PROPOSED SIGN
	EX. TREES
	MAPLE LEAF VIBURNUM (20)
	WHITE DOGWOOD (16)
	SHADEMASTER HONEYLOCUST (14)
	WHITE PINE (24)
	LEYLAND CYPRESS (24)
	AMELANCHIER SERVICEBERRY (16)
	PROPOSED SEED MIX

**Final Landscape Plan  
Owner Certification Form**

I certify that I have reviewed this Final Landscape Plan; that I have read and understand the regulations presented in the Carroll County Landscape Manual; and I agree to comply with these regulations and all applicable policy, guidelines and ordinances. I agree to certify the implementation of this approved Final Landscape Plan no later than one (1) year from the date of approval of this plan to the Department of Planning, Bureau of Resource Management, Room 209, 225 N. Center Street, Westminster, MD 21157-5194.

Applicant's Signature	Date	Print Name
Address (Please Print)	Street	
City	State	Zip

File #

**SCHEDULE A: LANDSCAPE CALCULATIONS**

CATEGORY	SOLAR BUFFER	
DISTANCE/AREA, ETC.	578 L.F.	
TOTAL PLANTING UNITS (P.U.'S) REQUIRED	57.8 P.U.	
TOTAL PLANTING UNITS (P.U.'S) PROVIDED	58 P.U.	
MAJOR (1 P.U.)	14 (14.0 P.U.)	
MINOR (1/2 P.U.)	32 (16.0 P.U.)	
EVERGREEN (1/2 P.U.)	48 (24.0 P.U.)	
SHRUBS (1/5 P.U.)	20 (4.0 P.U.)	
S.F. GROUND COVER (1 P.U./250 SF)	0 (0.0 P.U.)	

- NOTES:**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - DO NOT SCALE DRAWING.
  - THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSE ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
  - ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
  - CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) AND ENTER.

**FINAL LANDSCAPE PLAN**  
SCALE: 1" = 50'



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 DATE: 02/13/2026 11:22 AM  
 USER: JON MEYERS

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. \_\_\_\_\_, EXP. DATE: \_\_\_\_\_

**OWNER/ DEVELOPER**  
ACTIVE SOLAR DEVELOPMENT LLC  
2189 COOK ROAD  
GALWAY, NY 12074  
(800)865-3625

**PROPERTY ADDRESS**  
1900 HANOVER PIKE  
HAMPSTEAD, MD 21074



**ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS**

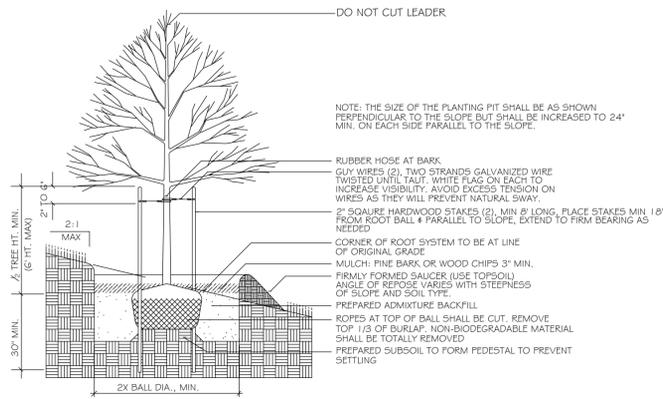
**KCI TECHNOLOGIES**  
936 RIDGEBROOK ROAD  
SHREWS, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

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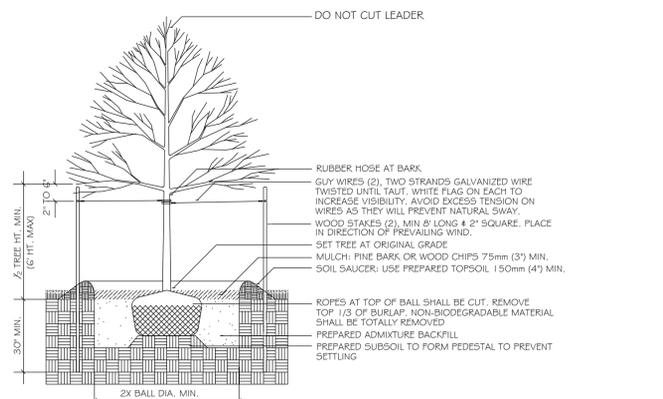
DATE: 02/13/2026  
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**FINAL LANDSCAPE PLAN**  
**HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT**  
8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND

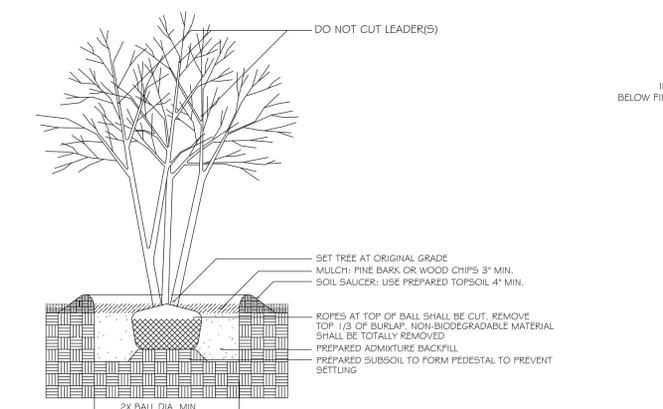
DRAWING NO. **C-10**  
SHEET 10 OF 13  
KCI JOB NUMBER 00052527\_001  
C.C.FILE#: S-25-0032



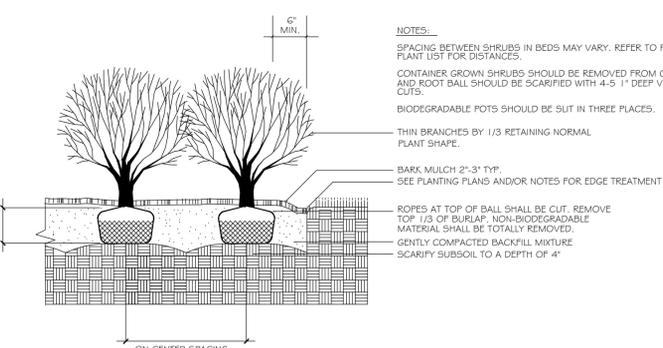
**A** DECIDUOUS TREE PLANTING ON SLOPE (LESS THAN 3" CAL.)  
25 N.T.S.



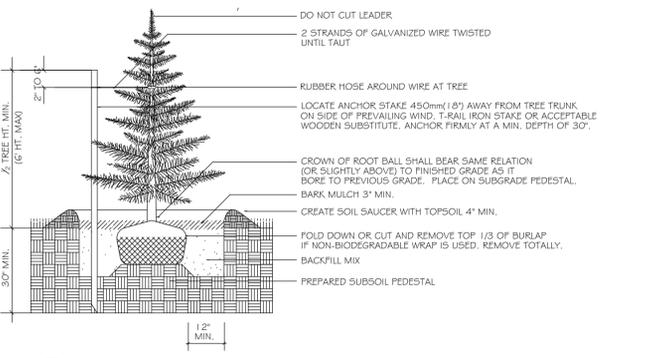
**C** DECIDUOUS TREE PLANTING (LESS THAN 3" CAL.)  
25 N.T.S.



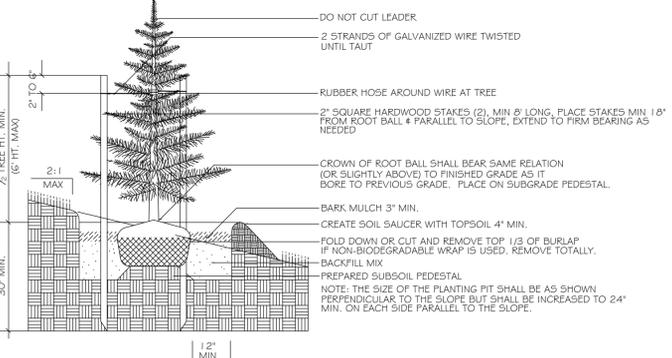
**E** DECIDUOUS MULTI-STEM TREE PLANTING  
25 N.T.S.



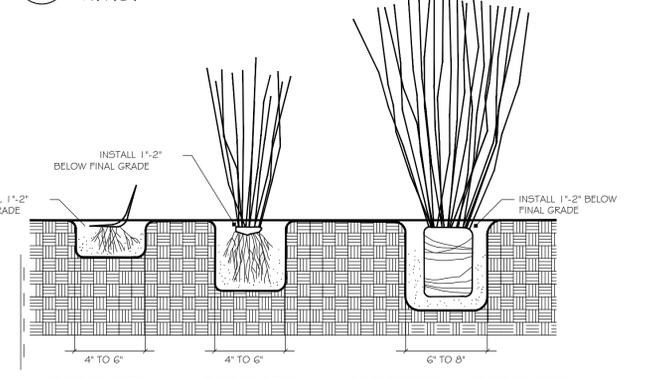
**G** SHRUB PLANTING - CONTINUOUS BED  
25 N.T.S.



**B** EVERGREEN TREE PLANTING  
25 N.T.S.



**D** EVERGREEN TREE PLANTING ON SLOPE  
25 N.T.S.



**F** HERBACEOUS PLANTING  
25 N.T.S.

GENERAL LANDSCAPE NOTES

- THE CONTRACTOR SHALL REVIEW ARCHITECTURAL/ENGINEERING PLANS TO BECOME THOROUGHLY FAMILIAR WITH THE GRADING AND SURFACE UTILITIES.
- THE CONTRACTOR SHALL COORDINATE WITH THE GENERAL LIGHTING, & IRRIGATION CONTRACTORS REGARDING TIMING AND INSTALLATION OF PLANT MATERIAL. AT THE TIME OF FINAL INSPECTION WITH ACCEPTANCE, ALL ELECTRIC, WATER & DRAINAGE UTILITIES, AS WELL AS PLANT MATERIAL, SHALL REMAIN UNDAUNAGED. LIKEWISE, THE LANDSCAPE CONTRACTOR AND UTILITIES CONTRACTORS SHALL COORDINATE EFFORTS TO ENSURE THAT SURFACE UTILITIES ARE AT THE PROPER ELEVATION RELATIVE TO FINAL GRADES.
- THE CONTRACTOR SHALL INSURE THAT HIS WORK DOES NOT INTERRUPT ESTABLISHED OR PROJECTED DRAINAGE PATTERNS.
- DURING PLANTING OPERATIONS, EXCESS WASTE MATERIALS SHALL BE PROMPTLY AND FREQUENTLY REMOVED FROM THE SITE.
- CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1 (800) 257-7777, 72 HOURS PRIOR TO CONSTRUCTION.
- IF UTILITY LINES ARE ENCOUNTERED IN THE EXCAVATION OF TREE PITS, OTHER LOCATIONS FOR TREES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION. NO CHANGES OF LOCATION SHALL BE MADE WITHOUT THE APPROVAL OF THE CITY OF WESTMINSTER, AND THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
- EVERY POSSIBLE SAFEGUARD SHALL BE TAKEN TO PROTECT BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY TO PERSONS OR PROPERTY WHICH MAY OCCUR AS A RESULT OF NEGLIGENCE IN THE EXECUTION OF THE WORK.
- IN THE EVENT OF A VARIATION BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL SUPERSEDE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO THE COMMENCEMENT OF WORK. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISCREPANCIES SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO BIDDING. THE CONTRACTOR SHALL FURNISH PLANT MATERIAL IN SIZES SPECIFIED IN THE PLANT LIST.
- THE CONTRACTOR SHALL TAKE ALL MATERIAL LOCATED ON THE SITE FOR REVIEW AND/OR ADJUSTMENT BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. ALL LOCATIONS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE EXCAVATION.
- ALL PLANT MATERIAL (NURSERY STOCK) TO CONFORM TO AMERICAN NURSERY & LANDSCAPE ASSOCIATION'S (A.N.L.A.) LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1)".
  - ALL PLANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH "HORTUS THIRD," BY THE STAFF OF THE L.H. BAILEY HORTORIUM, 1976.
  - NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE DIRECTOR OF PLANNING & PUBLIC WORKS OF THE CITY OF WESTMINSTER AND THE LANDSCAPE ARCHITECT.
  - THE CONTRACTOR IS TO FOLLOW SPECIFICATION GUIDELINES FOR BALTIMORE & WASHINGTON METROPOLITAN AREA AS APPROVED BY THE L.C.A. OF MARYLAND, WASHINGTON D.C., & VIRGINIA AND DESCRIBED IN "LANDSCAPE SPECIFICATION GUIDELINES, 5TH EDITION." DETAILS ON THE PLANS THAT DIFFER FROM DETAILS IN "LANDSCAPE SPECIFICATION GUIDELINES, 6TH EDITION" WILL SUPERSEDE.
  - THE LANDSCAPE ARCHITECT OR OWNER SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIALS WHICH, IN HIS OR HER OPINION, DOES NOT MEET THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS. ALL REJECTED MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE STABILITY AND CONDITIONS OF ALL TREES AND SHRUBS AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS.
- ALL PLANTING BEDS ARE TO BE TOPPED WITH THREE INCHES OF HARDWOOD MULCH.
- THE DECISIONS TO STAKE AND/OR GUY PLANT MATERIAL SHALL BE MADE ON AN INDIVIDUAL TREE BASIS AND SHOULD NOT BE REQUIRED OR ALL PLANTINGS.
- ALL PLANTING BEDS ADJACENT TO LAWN, SOD, OR SEEDED AREAS SHALL BE SPADE EDGED TO A MINIMUM DEPTH OF THREE INCHES.
- UPON COMPLETION OF ALL LANDSCAPING, AN INITIAL ACCEPTANCE OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER, THE LANDSCAPE ARCHITECT AND THE CITY OF WESTMINSTER. NOTIFICATION MUST BE MADE AT LEAST SEVEN (7) DAYS PRIOR TO THE INTENDED DATE OF INSPECTION.
- MAINTENANCE SHALL BEGIN AFTER EACH PLAN HAS BEEN INSTALLED AND SHALL CONTINUE 90 DAYS AFTER INITIAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE. MAINTENANCE SHALL INCLUDE MOVING OF TURF, WATERING, PRUNING, WEEDING, FERTILIZING, MULCHING, REPLACEMENT OF SICK OR DEAD PLANTS, AND OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL. THIS MAINTENANCE PERIOD MAY BE EXTENDED THROUGH THE ESTABLISHMENT OF A NEW MAINTENANCE CONTRACT WITH THE OWNER.
- ALL TREES SHALL BE GUARANTEED FOR TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE. ALL SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE. THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION WITH THE CITY OF WESTMINSTER AND THE OWNER OR THE OWNER'S REPRESENTATIVE AT THE END OF THE TWELVE (12) MONTH PERIOD FOR THE PURPOSES OF FINAL ACCEPTANCE.
- THE CONTRACTOR IS RESPONSIBLE FOR TESTING PROJECT SOILS. THE CONTRACTOR IS TO PROVIDE A CERTIFIED SOILS REPORT TO THE OWNER. THE CONTRACTOR SHALL VERIFY THAT THE SOILS ON SITE ARE ACCEPTABLE FOR THE PROPER GROWTH OF THE PROPOSED PLANT MATERIAL. SHOULD THE CONTRACTOR FIND POOR SOIL CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE SOIL AMENDMENTS AS NECESSARY. THESE AMENDMENTS SHALL INCLUDE, BUT NOT LIMITED TO, FERTILIZERS, LIME AND TOPSOIL. PROPER PLANTING SOILS MUST BE VERIFIED PRIOR TO PLANTING MATERIALS.
- IF THE SOIL IS WET OR COMPACTED, ALL CONTAINERIZED AND BALLED NURSERY STOCK SHOULD BE PLANTED SUCH THAT THE TOP ONE THIRD OF THE ROOTBALL IS ABOVE THE EXISTING GRADE.
- THE CONTRACTOR SHALL DISPOSE OF STUMPS AND MAJOR ROOTS OF ALL PLANTS TO BE REMOVED. ANY DEPRESSIONS CAUSED BY REMOVAL OPERATIONS SHALL BE REFILED WITH FERTILE, FRIABLE, SOIL PLACES AND COMPACTED SO AS TO REESTABLISH PROPER GRADE FOR NEW PLANTING AND/OR LAWN AREAS.
- THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS.
- ALL DISTURBED AREAS ON THE SITE NOT PLANTED WITH SHRUBS OR GROUND COVER SHALL BE FINE GRADED AND SEEDED OR SODDED AS NOTED ON LANDSCAPE PLAN.
- ALL SOD SHALL BE OBTAINED FROM AREAS HAVING GROWING CONDITIONS FAMILIAR TO AREAS TO BE COVERED. AREAS TO BE SODDED SHALL BE RAKED OF STONES AND DEBRIS. DEBRIS AND STONES OVER ONE INCH (1") SHALL BE REMOVED FROM THE SITE. ALL DAMAGE SOD WILL BE REJECTED. ALL SOD MUST BE PLACED WITH STAGGERED JOINTS, TIGHTLY BUTTED, WITH NO INEQUALITIES IN GRADE. PLACE ALL SOD ROWS AT RIGHT ANGLE TO SLOPE (WHERE APPLICABLE).
- WIRE AND NONDEGRADABLE MATERIALS SHOULD BE REMOVED AS FAR AS PRACTICAL BEFORE BACKFILLING TO PREVENT ROOT GIRDLING.

INSTALLATION

- STANDARDS TO CONFORM TO THE MOST RECENT VERSION OF THE ANSI A300 STANDARDS PART 6 -- TRANSPLANTING AND LANDSCAPE SPECIFICATIONS GUIDELINES OF THE LANDSCAPE CONTRACTORS ASSOCIATION, MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA.
- PLANTING ON INDIVIDUAL LOTS SHALL BE INSTALLED UPON FINAL GRADING INSPECTION. NO FINAL GRADING APPROVAL SHALL BE GIVEN ON THE BUILDING PERMIT UNTIL LANDSCAPING IS COMPLETE.

MAINTENANCE

THE OWNER OF ANY PROPERTY ON WHICH LANDSCAPING HAS BEEN INSTALLED PURSUANT TO THIS CHAPTER SHALL MAINTAIN THE LANDSCAPING IN GOOD CONDITION IN PERPETUITY. A LANDSCAPE MAINTENANCE AGREEMENT SHALL BE REQUIRED. FAILURE TO REPLACE DEAD OR DYING PUS OR THE REMOVAL OF ANY INSTALLED PUS IS A VIOLATION OF THIS CHAPTER.

INSPECTIONS

A MINIMUM OF 2 INSPECTIONS WILL BE REQUIRED. NO INSPECTIONS SHALL BE FINALIZED FROM NOVEMBER 1ST TO MARCH 1ST. TO BE CONSIDERED ACCEPTABLE, NO MORE THAN 1/3 OF A PLANT MAY BE DEAD.

- INITIAL INSPECTION: THIS INSPECTION SHALL BE PERFORMED BY THE COUNTY WHEN PLANTING IS COMPLETED TO VERIFY COMPLIANCE WITH THE APPROVED PLANTING PLAN.
- FINAL INSPECTION: THIS INSPECTION SHALL BE PERFORMED BY THE COUNTY 12 MONTHS AFTER THE INITIAL PLANTINGS.

LANDSCAPE SPECIFICATIONS:

ALL PLANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE LATEST EDITION OF HORTUS THIRD, BY THE STAFF OF HORTORIUM.

ALL NURSERY STOCK SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMEN, INC., STANDARDS AS DESCRIBED IN AMERICAN STANDARD FOR NURSERY STOCK, CURRENT ANSI Z60.1 SPECIFICATIONS.

LANDSCAPE SPECIFICATION SHALL CONFORM TO LANDSCAPE GUIDELINES FOR MARYLAND, WASHINGTON D.C., AND VIRGINIA, LATEST EDITION. ALL NURSERY STOCK SHALL BE PLANTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE GUIDELINES.

THREE INCHES OF TOPSOIL IS REQUIRED ON ALL DISTURBED AREAS TO BE LANDSCAPED, SEEDED, OR SODDED.

PLANT LIST

QTY	SYM	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS	PLANTING UNITS	MATURE HEIGHT
<b>LARGE TREES</b>						
14	GT	GLADISTIA TRIACANTHOS 'SHADEMASTER'	2 1/2" CAL.	B # B	14 P.U.	50-70' TALL
		SHADEMASTER HONEYLOCUST	12' - 14' HT.			
<b>FLOWERING TREES</b>						
16	AB	AMELANCHIER X. 'AUTUMN BRILLIANCE'	2 1/2" CAL.	B # B	8 P.U.	15-25' TALL
		AUTUMN BRILLIANCE SERVICEBERRY	6' - 8' HT. MIN.			
16	WD	CORNUS FLORIDA 'WHITE DOGWOOD'	2 1/2" CAL.	B # B	8 P.U.	15-25' TALL
			6' - 8' HT. MIN.			
<b>EVERGREEN TREES</b>						
24	WP	PINUS STROBUS	6' HT. MIN.	B # B	12 P.U.	50-60' TALL
		WHITE PINE				
24	LC	CUPRESSUS LEYLANDII, LEYLAND CYPRESS	6' HT. MIN.	B # B	12 P.U.	50-60' TALL
<b>SHRUBS</b>						
20	MV	VIBURNUM ACERIFOLIUM	24' HT.	CONT.	4 P.U.	3-6' TALL
		MAPLE LEAF VIBURNUM				

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 BY: TONY METERS  
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OWNER / DEVELOPER  
ACTIVE SOLAR DEVELOPMENT LLC  
2189 COOK ROAD  
GALWAY, NY 12074  
(800) 865-3625

PROPERTY ADDRESS  
1900 HANOVER PIKE  
HAMPSTEAD, MD 21074



ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

KCI TECHNOLOGIES

936 RIDGEWAY ROAD  
SARAS, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE 02/13/2026  
SCALE AS SHOWN  
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LANDSCAPE NOTES AND DETAILS  
HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT

8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND

C-11  
SHEET 11 OF 13  
KCI JOB NUMBER 0052527\_001

FOREST STAND DESCRIPTIONS			
KEY	COMMUNITY TYPE	DOMINANT VEGETATION	PRIORITY
A	MID SUCCESSIONAL STAGE	ACER RUBRUM, LINGUSTRUM VULGARIS, AND LINDERA BENZOIN	PRIORITY I (HIGH)
B	MID SUCCESSIONAL STAGE	SALIX NIGRA, MICROSTEGIUM VIMINEUM.	PRIORITY I (HIGH)

**FOREST CONSERVATION WORKSHEET**

FOREST THRESHOLDS: INDUSTRIAL/INSTITUTIONAL - 15% MINIMUM FOREST COVER  
ALL OTHER ZONING - 20% MINIMUM FOREST COVER

A. FOREST AREA REMOVED: 0.00 ACRES  
B. TOTAL REFORESTATION REQUIRED: 0.00 ACRES  
TOTAL REFORESTATION PROVIDED: 0.00 ACRES

REQUIRED REFORESTATION: ALL FORESTED AREA REMOVED IS TO BE REFORESTED AT A RATIO OF ONE ACRE PLANTED FOR EVERY ACRE OR PORTION THEREOF REMOVED.

**AFFORESTATION CALCULATION**

C. TOTAL  
D. NET TRACT AREA (SITE): 10.13 AC  
E. THRESHOLD REQUIRED: 1.52 AC  
F. EXISTING FORESTED AREA: 2.65 AC  
G. FOREST RETAINED = 2.65 AC  
H. AFFORESTATION REQUIRED (D-G) = -1.13

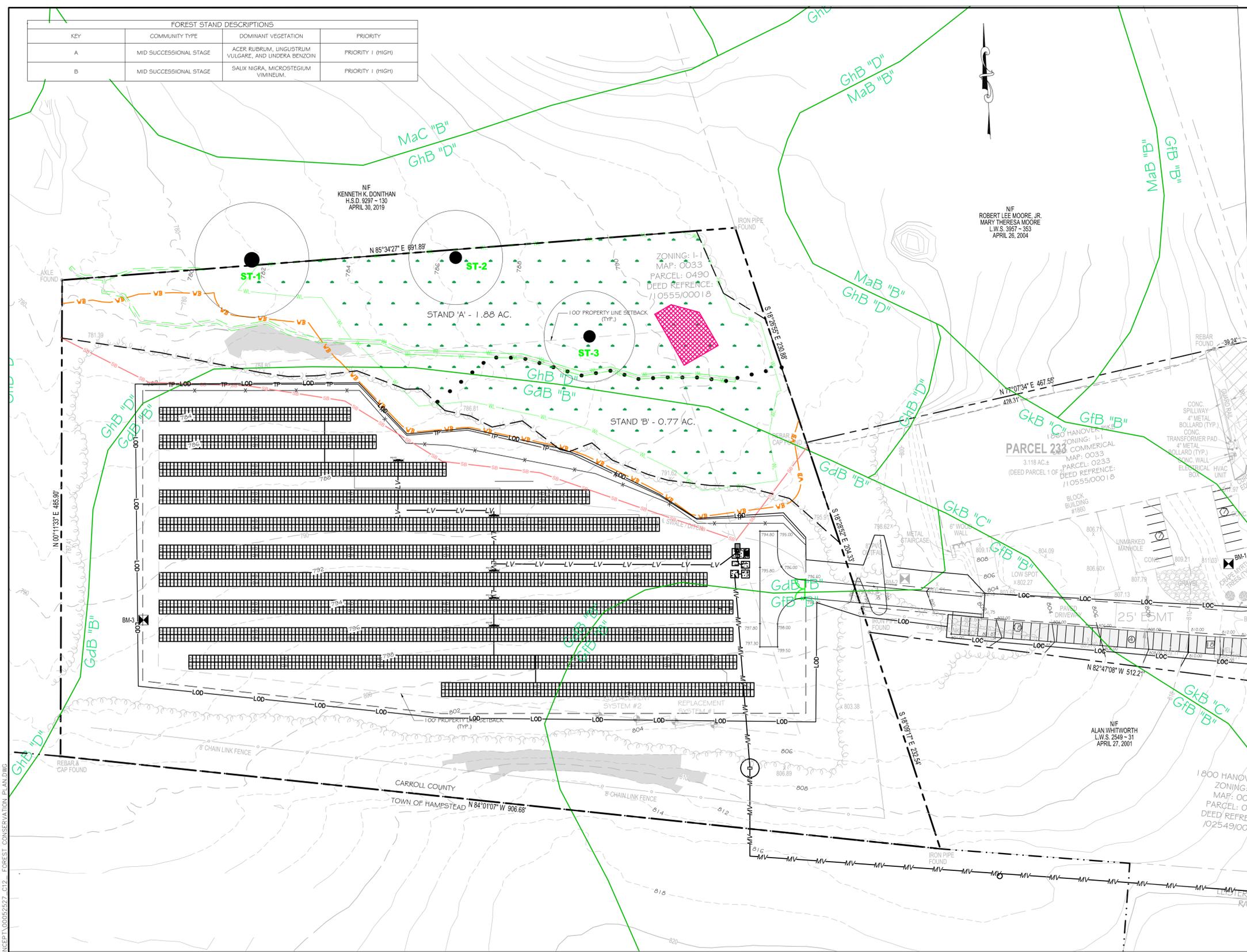
(IF C MINUS D) > 0, THIS IS REQUIRED OF AFFORESTATION. IF C MINUS D < 0, NO AFFORESTATION IS REQUIRED).  
TOTAL REFORESTATION PROVIDED ON SITE IS 0.00 ACRES.

DRAWING LEGEND	
LOD	LIMIT OF DISTURBANCE
EM2	EXISTING MINOR CONTOUR (2' INTERVAL)
EM0	EXISTING MAJOR CONTOUR (10' INTERVAL)
APL	ADJACENT PROPERTY LINE
WB	25' WETLAND BUFFER
WL	LIMIT OF WETLANDS
SB	STREAM BUFFER
TP	TREE PROTECTION FENCE
SSF	SUPER SILT FENCE
EX	EX. ROAD / EDGE OF PAVING
EX	EX. LIGHT FIXTURE
EX	EX. STANDARD CURB & GUTTER
EX	EX. BUILDING
EX	EX. SEWER LINE
EX	EX. GAS LINE
G2	PROPOSED MINOR CONTOUR (2' INTERVAL)
G0	PROPOSED MAJOR CONTOUR (10' INTERVAL)
PROJ	PROPOSED BUILDING EXPANSION
PROJ	PROPOSED CURB & GUTTER
PROJ	PROPOSED SEWER LINE
PROJ	PROPOSED STORM DRAIN
PROJ	PROPOSED WATER LINE
PROJ	PROPOSED GAS LINE
PROJ	PROPOSED STORM INLET
PROJ	PROPOSED LIGHT FIXTURE
PROJ	PROPOSED SIGN
EX	EX. TREES
SLOPE	SLOPE 1:5-25%
RET	FOREST TO BE RETAINED
STL	FOREST STAND LINE

**FOREST CONSERVATION NOTES**

- PLAN PREPARED BY KCI TECHNOLOGIES.
- PRE-CONSTRUCTION MEETING: BEFORE ANY DISTURBANCE, THE DEVELOPER, CONTRACTOR OR PROJECT MANAGER AND LOCAL INSPECTOR SHALL ATTEND. TEMPORARY PARKING, STOCKPILE, STAGING AND FUELING AREA WILL BE SHOWN TO ALL PERSONNEL.
- ANY CHANGES MADE TO THE FOREST CONSERVATION PLAN DUE TO ON-SITE CONDITIONS SHALL BE MADE IN CONSULTATION WITH A REPRESENTATIVE OF THE BUREAU OF RESOURCE MANAGEMENT.
- NO BURIAL OF DISCARDED MATERIALS WILL OCCUR ON-SITE.
- PER FEMA FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 24013C0113D AND 24013C0226D, EFFECTIVE OCTOBER 2, 2015 THERE ARE NO AREAS OF MAPPED 100-YEAR FLOODPLAIN WITHIN THE REVIEW AREA.
- WATERSHED #2130907 - LIBERTY RESERVOIR, USE III-P, TIER II CATCHMENT AREA.
- ACCORDING TO MARYLAND HISTORIC TRUST (MHT) "NO HISTORIC PROPERTIES WILL BE AFFECTED BY THE PROPOSED UNDERTAKING."
- ACCORDING TO THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, "BOG TURTLES (CLEMMYS MUEHLBERGII) A FEDERALLY AND STATE LISTED THREATENED SPECIES OCCUR WITHIN THE PROPOSED PROJECT SITE."
- TOPOGRAPHY SHOWN PER FIELD SURVEY BY RTF (PER ELECTRONIC TRANSFER).
- ACCORDING TO THE CARROLL COUNTY, WATER RESOURCES MANAGEMENT AREA GUIDANCE MAP, THE SUBJECT SITE IS LOCATED WITHIN A SURFACE WATER MANAGEMENT ZONE AND AQUIFER PROTECTION AREA. THE REQUIREMENTS OF CHAPTER 154, WATER RESOURCE MANAGEMENT OF CARROLL COUNTY CODE OF PUBLIC LOCAL LAWS AND ORDINANCES MUST BE ADDRESSED.
- TOTAL AREA OF PROPERTY: 10.13 ACRES
- NET TRACT AREA: 10.13 ± ACRES BY DEED
- WATERCOURSES: THERE IS 39 L.F. OF EPHEMERAL STREAM LOCATED ON SITE (PER FSD). THERE IS 8,830 SQ.FT. OF WETLANDS ON-SITE, WITH ASSOCIATED WETLANDS BUFFER. NEITHER WILL BE DISTURBED.
- SOILS: SOILS SHOWN PER USDA. THERE ARE NO HYDRIC SOILS IDENTIFIED ON SITE (PER FSD).

QUALIFIED PROFESSIONAL



**FOREST CONSERVATION PLAN**  
SCALE 1" = 30'

**FOREST CONSERVATION PLAN NARRATIVE**

OF THE APPROXIMATELY 2.65 ACRES OF EXISTING FOREST WITHIN THE NET TRACT, 2.65 ACRES WILL BE RETAINED AND PLACED WITHIN PROTECTIVE EASEMENT.

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. \_\_\_\_\_ EXP. DATE: \_\_\_\_\_

OWNER/ DEVELOPER ACTIVE SOLAR DEVELOPMENT LLC 2189 COOK ROAD GALWAY, NY 12074 (800)865-3625	PROPERTY ADDRESS 1900 HANOVER PIKE HAMPSTEAD, MD 21074
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**KCI TECHNOLOGIES**  
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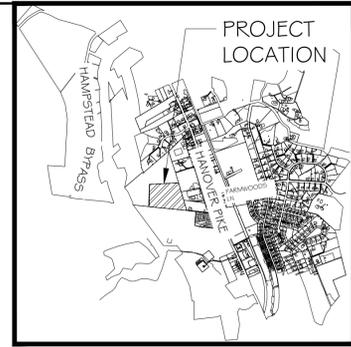
REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE 02/13/2026	SCALE 1" = 30'
DESIGNED BY AM	DRAWN BY AM

**FOREST CONSERVATION PLAN**  
**HAMPSTEAD COMMUNITY ENERGY INITIATIVE LLC. - SOLAR PROJECT**  
8TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND

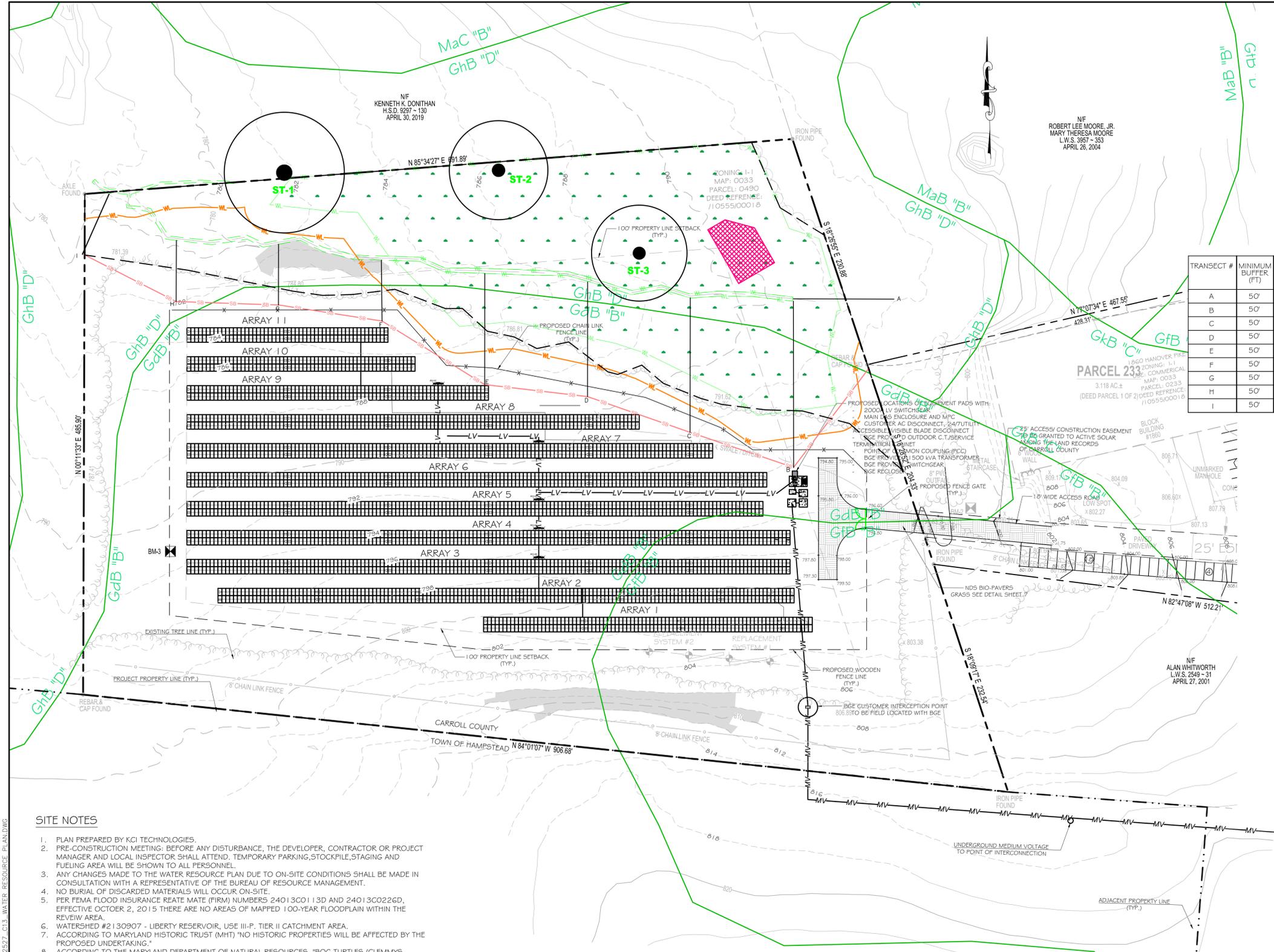
DRAWING NO. <b>C-12</b>
SHEET 12 OF 13 KCI JOB NUMBER 00052527_001

PLOTTED: 2/13/2026 11:56 AM BY: TONY MEXTERS FILE: M:\2025\00052527\_001\DRAWINGS\SP - CONCEPT\00052527\_012 - FOREST CONSERVATION PLAN.DWG



LEN STOLER JEEP SITE  
 VARIABLE WIDTH STREAM BUFFER CALCULATION  
 CALCULATIONS APPROVED WITH GRO-21-0012

TRANSECT #	MINIMUM BUFFER (FT)	% SLOPE FROM EDGE OF STREAM TO 100'	BUFFER EXTENSION = 2X SLOPE (FT)	BUFFER REQUIRED (FT)	CONTIGUOUS WETLANDS AND STEEP SLOPES EXCLUDED FROM WITH MEASUREMENT (FT)	TOTAL BUFFER WIDTH = BUFFER+EXTENSION + SLOPES+WETLANDS (FT)	CURTILAGE AREA (FT)
A	50'	3%	6'	56'	42'	98'	
B	50'	2%	4'	54'	107'	161'	
C	50'	2%	4'	54'	76'	130'	
D	50'	3%	6'	56'	56'	112'	
E	50'	4%	8'	58'	50'	108'	
F	50'	5%	10'	60'	0'	60'	
G	50'	4%	8'	58'	0'	58'	
H	50'	4%	8'	58'	0'	58'	
I	50'	4%	8'	58'	0'	58'	



DRAWING LEGEND

- LOD LIMIT OF DISTURBANCE
- G20 EXISTING MINOR CONTOUR (2' INTERVAL)
- G80 EXISTING MAJOR CONTOUR (10' INTERVAL)
- ADJACENT PROPERTY LINE
- VB 25' WETLAND BUFFER
- WL LIMIT OF WETLANDS
- SB STREAM BUFFER
- TP TREE PROTECTION FENCE
- SSF SUPER SILT FENCE
- EX. ROAD / EDGE OF PAVING
- EX. LIGHT FIXTURE
- EX. STANDARD CURB & GUTTER
- EX. BUILDING
- EX. SEWER LINE
- EX. GAS LINE
- G20 PROPOSED MINOR CONTOUR (2' INTERVAL)
- G80 PROPOSED MAJOR CONTOUR (10' INTERVAL)
- PROPOSED BUILDING EXPANSION
- PROPOSED CURB & GUTTER
- PROP. 8" S. PROPOSED SEWER LINE
- PROP. 12" SD PROPOSED STORM DRAIN
- PROP. 8" W. PROPOSED WATER LINE
- PROP. 8" G. G. PROPOSED GAS LINE
- PROPOSED STORM INLET
- PROPOSED LIGHT FIXTURE
- PROPOSED SIGN
- EX. TREES

SOILS CHART

CODE	NAME	K-VALUE	HYDRIC
GdB	GLENNELG LOAM, 3%-8%	0.24	-
GdB	GLENNVILLE URBAN LAND, 0%-8%	0.37	-
GdB	GLENNVILLE SILT LOAM, 3%-8%	0.37	YES
GB	GLENNELG-URBAN LAND COMPLEX, 0% TO 8%	0.23	-



- SITE NOTES**
- PLAN PREPARED BY KCI TECHNOLOGIES.
  - PRE-CONSTRUCTION MEETING: BEFORE ANY DISTURBANCE, THE DEVELOPER, CONTRACTOR OR PROJECT MANAGER AND LOCAL INSPECTOR SHALL ATTEND. TEMPORARY PARKING, STOCKPILE, STAGING AND FUELING AREA WILL BE SHOWN TO ALL PERSONNEL.
  - ANY CHANGES MADE TO THE WATER RESOURCE PLAN DUE TO ON-SITE CONDITIONS SHALL BE MADE IN CONSULTATION WITH A REPRESENTATIVE OF THE BUREAU OF RESOURCE MANAGEMENT.
  - NO BURIAL OF DISCARDED MATERIALS WILL OCCUR ON-SITE.
  - PER FEMA FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 24013C0113D AND 24013C0226D, EFFECTIVE OCTOBER 2, 2015 THERE ARE NO AREAS OF MAPPED 100-YEAR FLOODPLAIN WITHIN THE REVIEW AREA.
  - WATERSHED #2 130907 - LIBERTY RESERVOIR, USE III-P, TIER II CATCHMENT AREA.
  - ACCORDING TO MARYLAND HISTORIC TRUST (MHT) "NO HISTORIC PROPERTIES WILL BE AFFECTED BY THE PROPOSED UNDERTAKING."
  - ACCORDING TO THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, "BOG TURTLES (CLEMMYS MUHLENBERGII) A FEDERALLY AND STATE LISTED THREATENED SPECIES OCCUR WITHIN THE PROPOSED PROJECT SITE."
  - TOPOGRAPHY SHOWN PER FIELD SURVEY BY RTF (PER ELECTRONIC TRANSFER).
  - ACCORDING TO THE CARROLL COUNTY, WATER RESOURCES MANAGEMENT AREA GUIDANCE MAP, THE SUBJECT SITE IS LOCATED WITHIN A SURFACE WATER MANAGEMENT ZONE AND AQUIFER PROTECTION AREA. THE REQUIREMENTS OF CHAPTER 154, WATER RESOURCE MANAGEMENT OF CARROLL COUNTY CODE OF PUBLIC LOCAL LAWS AND ORDINANCES MUST BE ADDRESSED.
  - TOTAL AREA OF PROPERTY: 10.13 ACRES
  - NET TRACT AREA: 10.13 ± ACRES BY DEED
  - WATERCOURSES: THERE IS AN INTERMITTENT STREAM LOCATED ON SITE (PER FSD). THERE IS 8,830 SQ. FT. OF WETLANDS ON-SITE, WITH ASSOCIATED WETLANDS BUFFER. NEITHER WILL BE DISTURBED.
  - SOILS: SOILS SHOWN PER USDA. THERE ARE HYDRIC SOILS IDENTIFIED ON SITE (PER FSD).

WATER RESOURCE MANAGEMENT PLAN  
 SCALE 1" = 50'

NOTE: THIS SITE IS IN A TIER II CATCHMENT.

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NO.	DATE	DESCRIPTION	BY

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 SCALE 1" = 50'  
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 DRAWN BY AM

WATER RESOURCE MANAGEMENT  
 HAMPSTEAD COMMUNITY ENERGY  
 INITIATIVE LLC. - SOLAR PROJECT

8TH ELECTION DISTRICT  
 CARROLL COUNTY, MARYLAND

DRAWING NO.  
**C-13**  
 SHEET 13 OF 13  
 KCI JOB NUMBER  
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