

PARCEL INFORMATION	
PARCEL NUMBER	PARCEL INFORMATION
A	N/F JANICE L. GARRETT & LINDA HOLLMAN GARRETT TAX ID NO. 06-016197 DEED BOOK 8778 PAGE 176
B	N/F GERALD E. TOPPER TAX ID NO. 06-016189 DEED BOOK 6365 PAGE 261
C	N/F JULIANA KROUPA TAX ID NO. 06-053807 DEED BOOK 11568 PAGE 481
D	N/F MICHAEL K. LEACH & MARY V. LEACH TAX ID NO. 06-052800 DEED BOOK 2004 PAGE 902
E	N/F DALE D. HENDERSON TAX ID NO. 06-052797 DEED BOOK 6998 PAGE 235
F	N/F MATTHEW P. DIEHL & AMBER M. DIEHL TAX ID NO. 06-052789 DEED BOOK 10180 PAGE 421
G	N/F JOSEPH E. FITZGERALD & ELIZABETH M. FITZGERALD TAX ID NO. 06-052770 DEED BOOK 7777 PAGE 113
H	N/F MARTHA REED HARRIS II & RYAN JAMES SMITH TAX ID NO. 06-052762 DEED BOOK 10420 PAGE 446
I	N/F SEAN A. MODERACKI & PAIGE M. MODERACKI TAX ID NO. 06-052754 DEED BOOK 9212 PAGE 107
J	N/F S T PIEPER FAMILY FARM, LLC TAX ID NO. 06-053793 DEED BOOK 10657 PAGE 52
K	N/F S T PIEPER FAMILY FARM, LLC TAX ID NO. 06-053785 DEED BOOK 10657 PAGE 52

- NOTES:**
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  3. SOIL BOUNDARIES OBTAINED FROM THE NRCS WEB SOIL SURVEY.
  4. A BOUNDARY AND TOPOGRAPHICAL SURVEY FOR THE PARCEL WAS COMPLETED BY JHA ON APRIL 15, 2026.
  5. AN AQUATICS RESOURCE INVESTIGATION WAS COMPLETED BY ARM GROUP LLC ON FEBRUARY 25, 2026.
  6. ALL DIMENSIONS TO BE CONFIRMED ON-SITE PRIOR TO CONSTRUCTION. ALL DIMENSIONS ARE INDICATIVE ONLY AND IN FT. UNLESS OTHERWISE SPECIFIED.

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  - ○ --- EXISTING WATER WELL
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  - \* --- EXISTING FENCE
  - T --- EXISTING TELECOMMUNICATION LINE
  - --- EXISTING PAVED ROAD
  - --- EXISTING ACCESS ROAD
  - --- EXISTING STRUCTURE
  - --- 10-15% SLOPES
  - --- >15% SLOPES

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**EXISTING SITE CONDITIONS PLAN**  
2514 HANOVER PIKE, HAMPSTEAD, MD 21074PIEPER SOLAR S-26-0048  
TOWN OF HAMPSTEAD  
CARROLL COUNTY, MARYLAND

Scale: 1" = 150'  
Date: 05/18/2026  
Project No.: 25012269

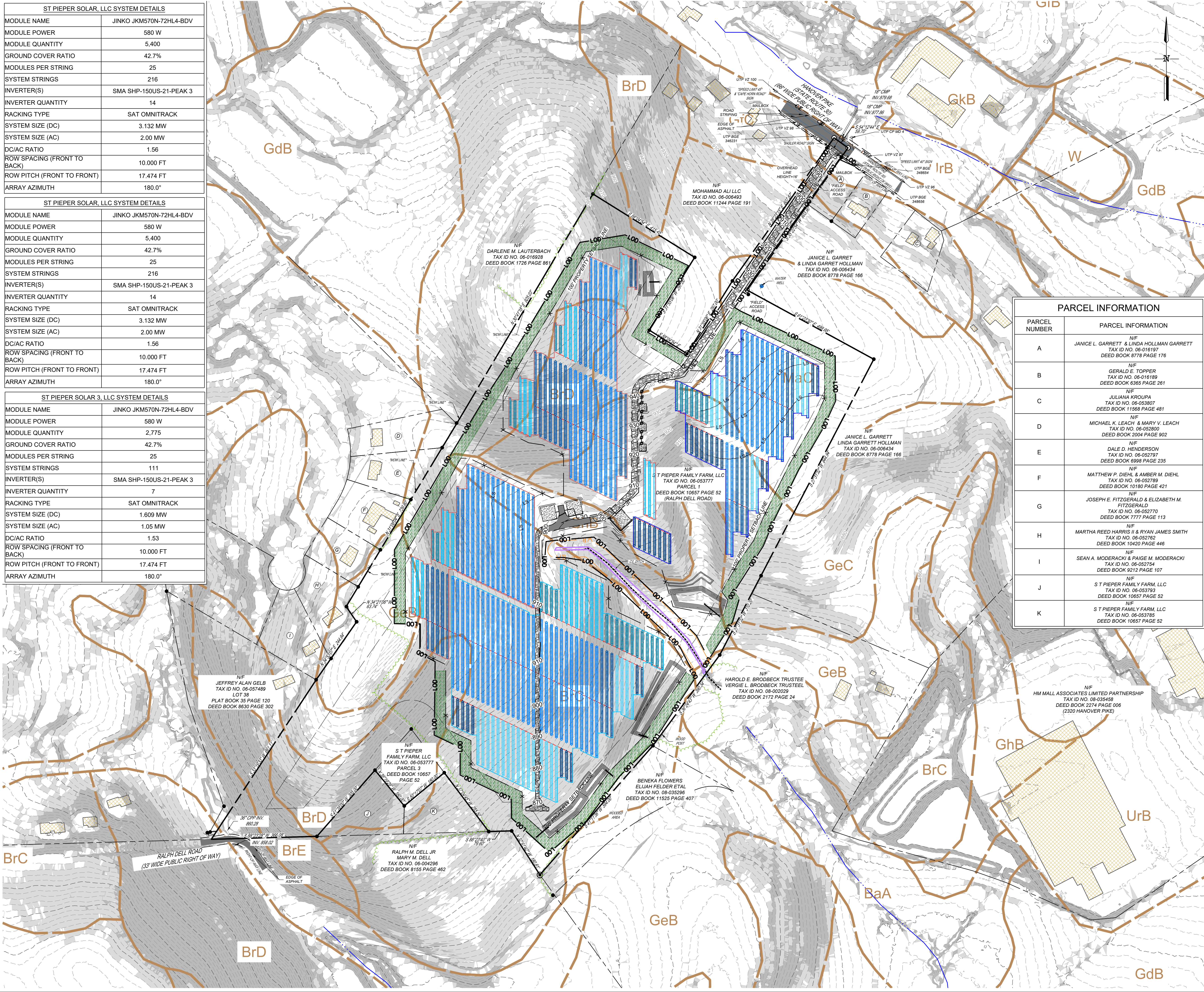
Sheet: 0200-EXT

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ST PIEPER SOLAR, LLC SYSTEM DETAILS	
MODULE NAME	JINKO JKM570N-72HL4-BDV
MODULE POWER	580 W
MODULE QUANTITY	5,400
GROUND COVER RATIO	42.7%
MODULES PER STRING	25
SYSTEM STRINGS	216
INVERTER(S)	SMA SHP-150US-21-PEAK 3
INVERTER QUANTITY	14
RACKING TYPE	SAT OMNITRACK
SYSTEM SIZE (DC)	3.132 MW
SYSTEM SIZE (AC)	2.00 MW
DC/AC RATIO	1.56
ROW SPACING (FRONT TO BACK)	10.000 FT
ROW PITCH (FRONT TO FRONT)	17.474 FT
ARRAY AZIMUTH	180.0°

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MODULE QUANTITY	5,400
GROUND COVER RATIO	42.7%
MODULES PER STRING	25
SYSTEM STRINGS	216
INVERTER(S)	SMA SHP-150US-21-PEAK 3
INVERTER QUANTITY	14
RACKING TYPE	SAT OMNITRACK
SYSTEM SIZE (DC)	3.132 MW
SYSTEM SIZE (AC)	2.00 MW
DC/AC RATIO	1.56
ROW SPACING (FRONT TO BACK)	10.000 FT
ROW PITCH (FRONT TO FRONT)	17.474 FT
ARRAY AZIMUTH	180.0°

ST PIEPER SOLAR 3, LLC SYSTEM DETAILS	
MODULE NAME	JINKO JKM570N-72HL4-BDV
MODULE POWER	580 W
MODULE QUANTITY	2,775
GROUND COVER RATIO	42.7%
MODULES PER STRING	25
SYSTEM STRINGS	111
INVERTER(S)	SMA SHP-150US-21-PEAK 3
INVERTER QUANTITY	7
RACKING TYPE	SAT OMNITRACK
SYSTEM SIZE (DC)	1.609 MW
SYSTEM SIZE (AC)	1.05 MW
DC/AC RATIO	1.53
ROW SPACING (FRONT TO BACK)	10.000 FT
ROW PITCH (FRONT TO FRONT)	17.474 FT
ARRAY AZIMUTH	180.0°



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- --- PROPOSED LIMIT OF DISTURBANCE
- --- PROPOSED PAVED ROAD
- --- PROPOSED ST PIEPER SOLAR, LLC SITE BOUNDARY
- --- PROPOSED ST PIEPER SOLAR 2, LLC SITE BOUNDARY
- --- PROPOSED ST PIEPER SOLAR 3, LLC SITE BOUNDARY

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**OVERALL PROPOSED SITE CONDITIONS PLAN**  
25114 HANOVER PIKE, HAMPSTEAD, MD 21074

TOWN OF HAMPSTEAD  
CARROLL COUNTY, MARYLAND

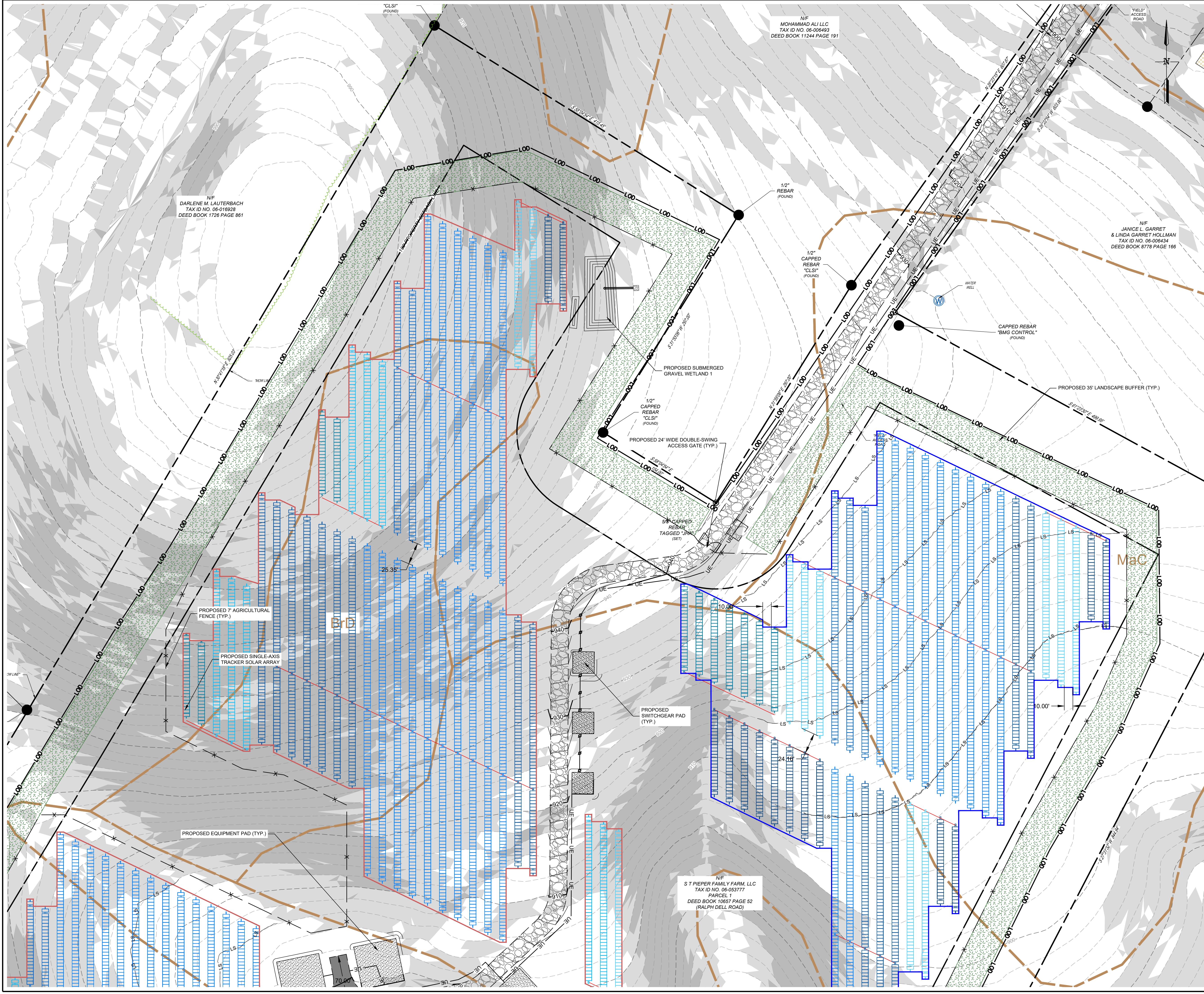
PIEPER SOLAR  
S-26-0048

Sheet 0400-SITE

1" = 150'  
DATE: 05/18/2026  
DRAWN BY: BCC  
CHECKED BY: JRK  
PROJECT NO.: 25012269

Scale in Feet: 0, 100, 200, 300, 400

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	PROPOSED ST PIEPER SOLAR 3, LLC SITE BOUNDARY



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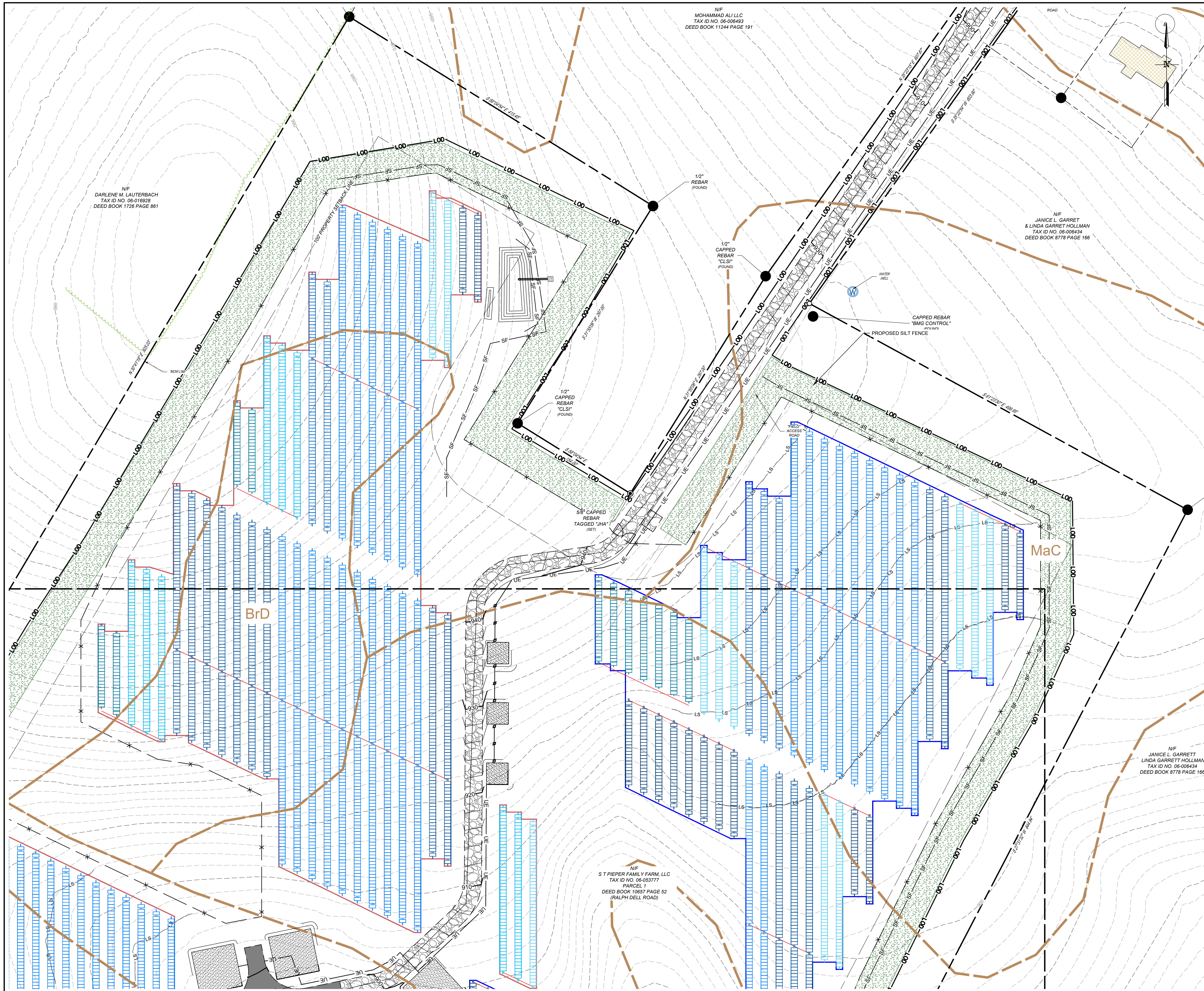
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DRAWN BY: BCC	CHECKED BY: JRK	DATE: 05/18/2026	PROJECT NO.: 25012269	SCALE IN FEET
<b>PROPOSED SITE CONDITIONS PLAN (1 OF 2)</b>		TOWN OF HAMPSTEAD CARROLL COUNTY, MARYLAND		
2514 HANOVER PIKE, HAMPSTEAD, MD 21074		PIEPIER SOLAR S-26-0048		
Sheet	0401-SITE			

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N/F  
MOHAMMAD ALI LLC  
TAX ID NO. 06-006493  
DEED BOOK 11244 PAGE 191

N/F  
DARLENE M. LAUTERBACH  
TAX ID NO. 06-016928  
DEED BOOK 1726 PAGE 861

N/F  
JANICE L. GARRET  
& LINDA GARRET HOLLMAN  
TAX ID NO. 06-006434  
DEED BOOK 8778 PAGE 166

N/F  
S.T. PIEPER FAMILY FARM, LLC  
TAX ID NO. 06-053777  
PARCEL 1  
DEED BOOK 10657 PAGE 52  
(RALPH DELL ROAD)

N/F  
JANICE L. GARRET  
LINDA GARRET HOLLMAN  
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DEED BOOK 8778 PAGE 166

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  - SF --- SF --- PROPOSED SILT FENCE
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  - --- PROPOSED PAVED ROAD

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PROJECT NO.	25012269
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SCALE	1" = 50'
BY	JRK
CHECKED	BCC
DESIGNED	BW

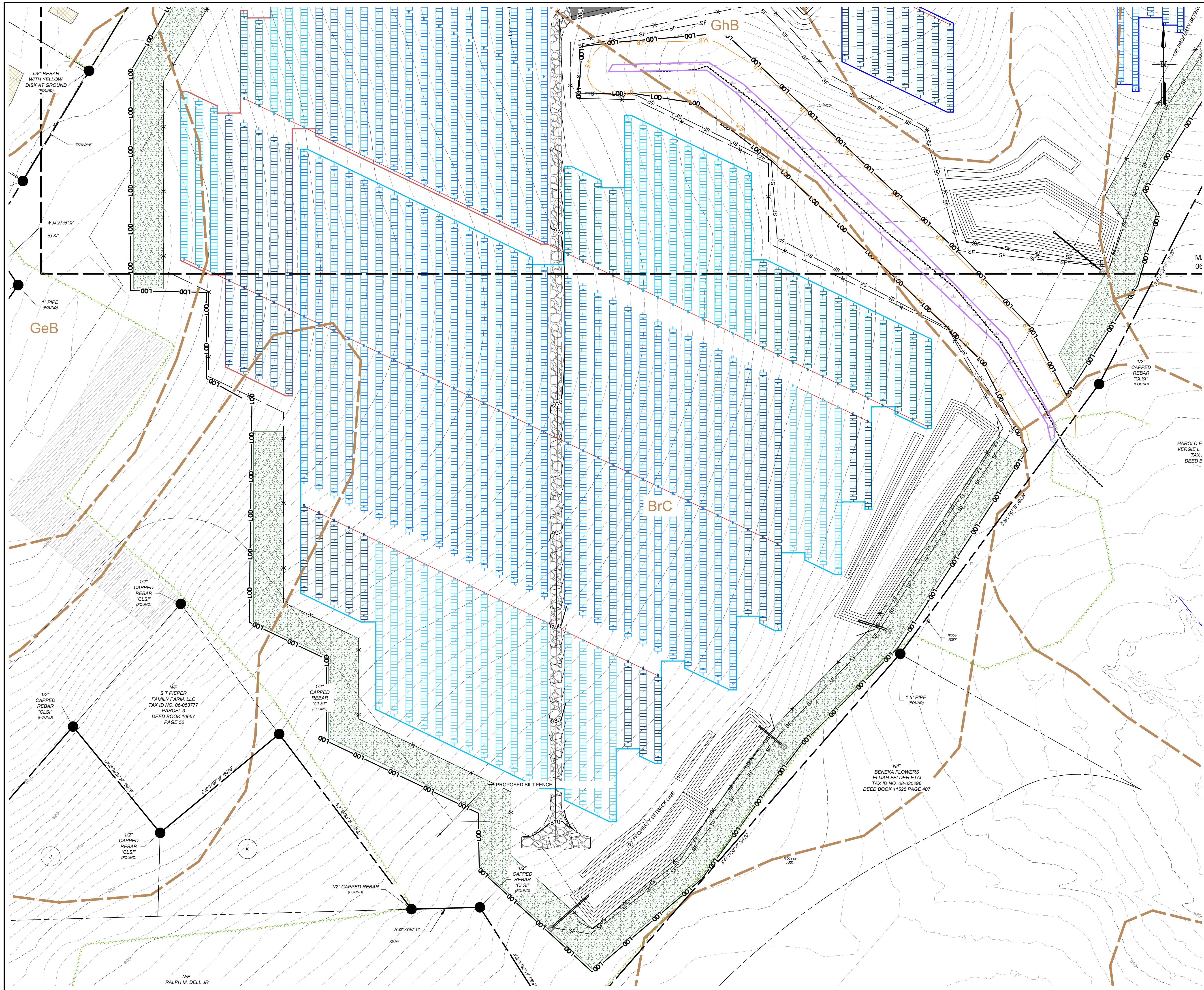
PROJECT NO.	25012269
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BY	JRK
CHECKED	BCC
DESIGNED	BW

CONCEPTUAL SEDIMENT CONTROL PLAN (1 OF 2)  
2514 HANOVER PIKE, HAMPSTEAD, MD 21074  
PIEPER SOLAR  
S-26-0048

TOWN OF HAMPSTEAD  
CARROLL COUNTY, MARYLAND

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Sheet  
0600-SCP



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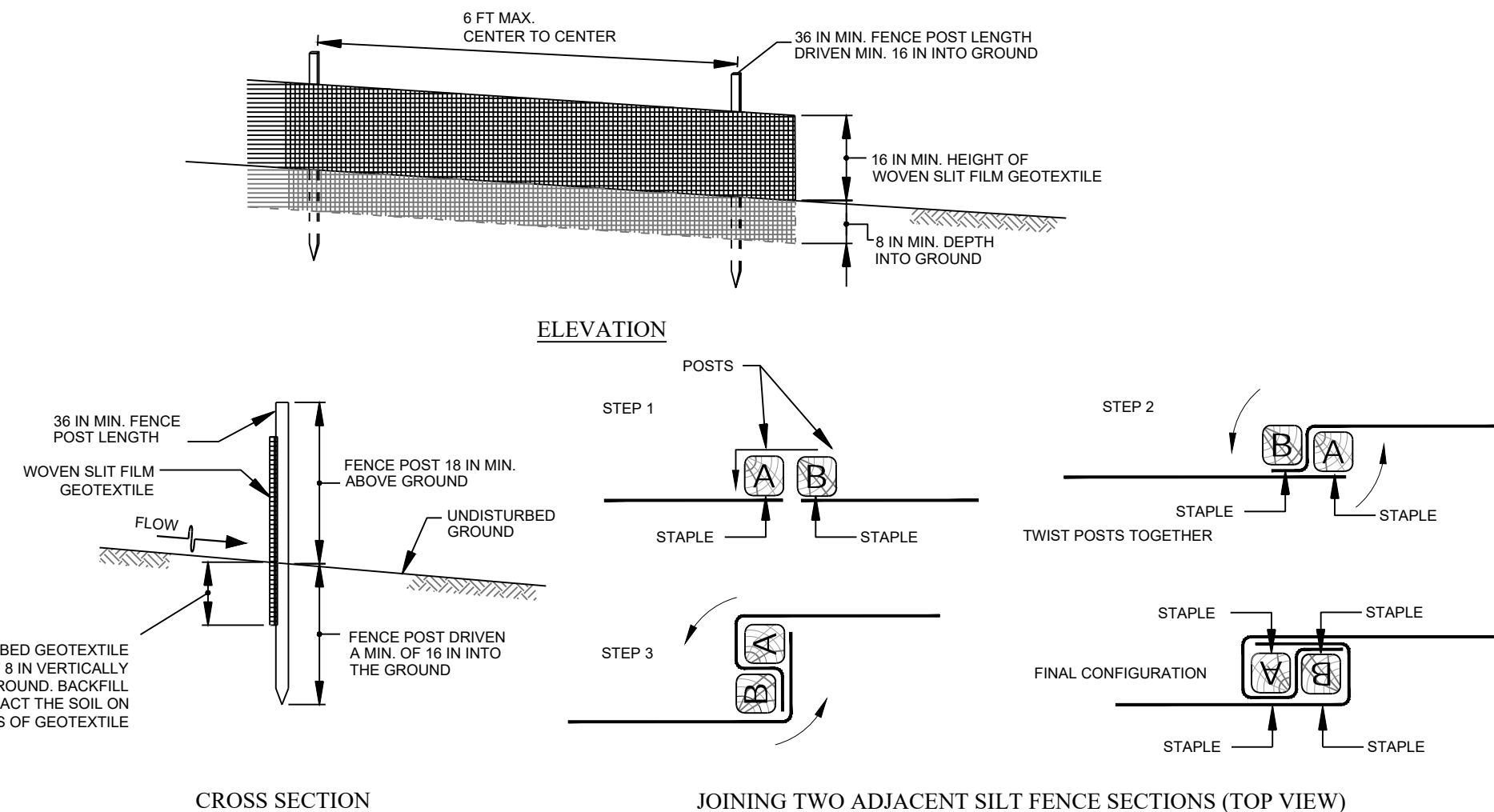
Revised By:	JRK	Date:	05/18/2026	Project No.:	25012269
Checked By:	BCC	Date:	05/18/2026	Project No.:	25012269
Designed By:	BW	Date:	05/18/2026	Project No.:	25012269

**CONCEPTUAL SEDIMENT CONTROL PLAN (2 OF 2)**  
**2514 HANOVER PIKE, HAMPSTEAD, MD 21074**  
 PIEPER SOLAR  
 S-26-0048

TOWN OF HAMPSTEAD  
 CARROLL COUNTY, MARYLAND

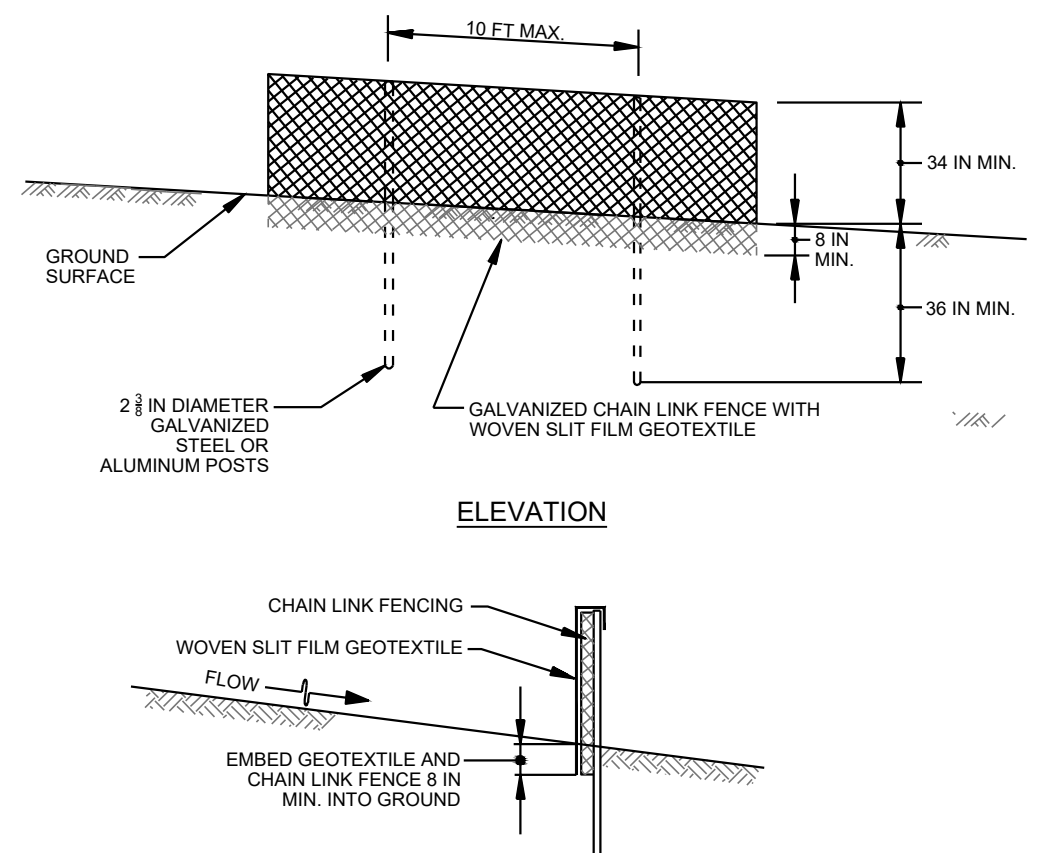
Sheet: 0601-SCP

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- NOTES:**
- SILT FENCE DESIGN AS PER MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (DETAIL E-1).
  - USE WOOD POSTS 1-3/4 X 1-1/8 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
  - USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
  - USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
  - PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
  - EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
  - WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
  - EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
  - REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

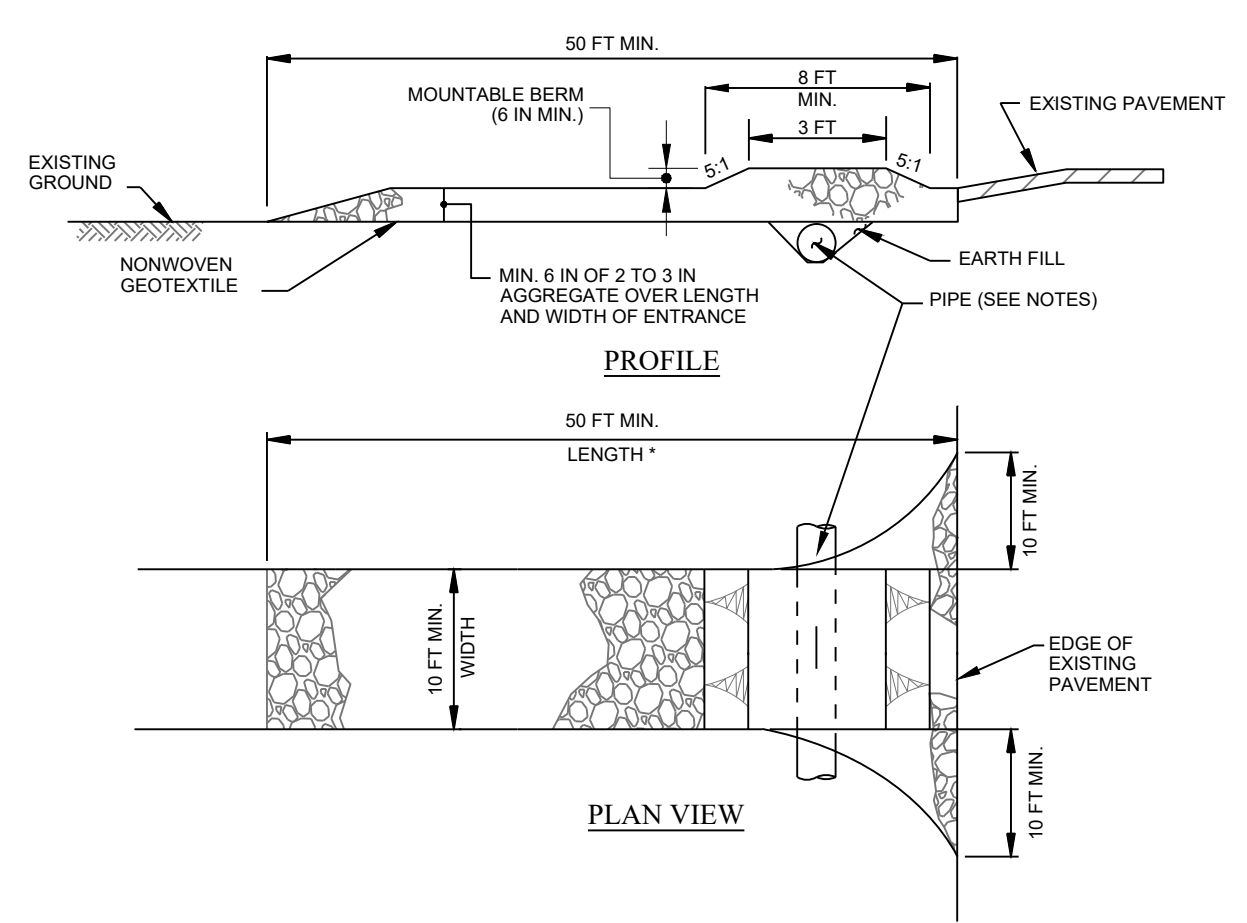
**1** DETAIL SILT FENCE (TYP.) NOT TO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- INSTALL 2 3/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
  - FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 3/8 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
  - FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
  - WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
  - EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
  - PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
  - REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

**2** DETAIL SUPER SILT FENCE NOT TO SCALE

NOTE: CONTRACTOR MAY USE SMART FENCE 42 IN PLACE OF SUPER SILT FENCE IN ANY LOCATION SUPER SILT FENCE IS SHOWN ON PLANS.



- NOTES:**
- STABILIZED CONSTRUCTION ENTRANCE DESIGN AS PER MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (DETAIL B-1).
  - PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE TO 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
  - PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
  - PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
  - PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
  - MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

**3** DETAIL STABILIZED CONSTRUCTION ENTRANCE (TYP.) NOT TO SCALE

# SMARTFENCE® MD 42

## MDE APPROVED PRODUCT

MARYLAND

# SMARTFENCE 42"

## INSTALLATION INSTRUCTIONS

SEDIMENT & PERIMETER CONTROL

ACF Environmental's SMARTfence 42 sediment control product is approved by the Maryland Department of the Environment.

Maryland Department of the Environment, Water and Science Administration grants provisional approval for SMARTfence 42 to be considered as a substitute for "Super Silt Fence" (SSF) in conditions where SSF would typically be specified.

"The main differences between the SMARTfence 42 product and the current specifications for SSF include elimination of the chain-link reinforcing component, deeper penetration of the supporting posts, and closer spacing of the support posts. The objective of this product is to provide the filtering capability and energy resistance provided by SSF but eliminate the need to produce, ship, and dispose of the chain link and post components of SSF."

- Stewart R. Comstock, P.E., Chief Program Review Division Water and Science Administration

PRODUCT DRAWINGS CAN BE FOUND ON THE BACK OF THIS INFORMATION SHEET.



SMARTfence

42" SMARTfence Accepted alternative to Super Silt Fence



**STEP 1:** Excavate trench a maximum of 4" wide and 6" deep. The trench shall be hand-cleaned following excavation to remove bulky debris such as rocks, sticks, and soil clods from the trench. Drive studded metal T-posts with anchor plates having a minimum weight of 1.25 lb/ft and a 72" height. Drive post into ground with a minimum depth of 36". Post spacing must be no greater than 6 ft maximum.

**STEP 2:** Layout SMARTfence® 42 along proposed fence line next to anchor trench. Locate one end of the SMARTfence® 42 and position vertically along the initial post.

**STEP 3:** For the initial post, place the end of SMARTfence® 42 along the post height and rotate the post 360 degrees, maintaining tension on the fence system. Secure the fence to the post at all four (4) orange-colored band locations with steel wire or nylon ties.

**STEP 4:** For fastening SMARTfence® 42 to studded metal T-posts using one of following methods:

- Method I (T-Post): 16-gauge wire- attach SMARTfence® 42 to metal T-posts using the 16-gauge 304 SS wire with mitered ends, securing the fence to the post using safety pliers.

- Method II (T-Post): 8" nylon heavy-duty, UV-stabilized, cable ties (zip-ties) with minimum 120-lb tensile strength. Puncture two 0.25" openings, spaced at a width apart that is roughly equivalent to the post width, and secure the fence to the post.

**STEP 5:** Drive the initial post with the attached fence into the ground to a 36" depth.

SMARTfence® 42 is NTPEP Compliant GTX-2018-01-187

**STEP 6:** Drive the interior t-posts of the fence system into the ground at least 36".

**STEP 7:** Move to the next t-post while pulling SMARTfence® 42 tightly. Position the SMARTfence® 42 in front of the adjacent t-post in preparation for fastening the fence to the post. Fasten fence to post at all four (4) orange-colored band locations as instructed in Step 4.

**STEP 8:** After the interior posts have been fastened to the SMARTfence® 42, secure the fence to the final post by pulling the final section of fencing taut, then rotating the post 360 degrees, maintaining tension on the fence system. Secure the fence to the post at all four (4) orange-colored band locations with the steel wire or nylon ties per Step 4. Drive the final post into the ground to a 36" depth.

**STEP 9:** Place bottom 8" of fabric into the trench. Backfill trench (overfill) with soil placed around fabric. Compact soil backfill with either manual tamping (or other manual means) or via mechanical equipment such as the front wheel of a tractor, skid steer, roller, or other device (per Note 5 of ASTM D 6462 Standard Practice for Silt Fence Installation). Do not damage the fabric during compaction (damaged fabric shall be replaced).

Please contact our team at 800-448-3636 or info@acfenv.com with any questions regarding the installation process.

**LET'S GET IT DONE!™**

SMARTfence

For more information, contact Inside Sales at 800.448.3636 or by email at info@acfenv.com

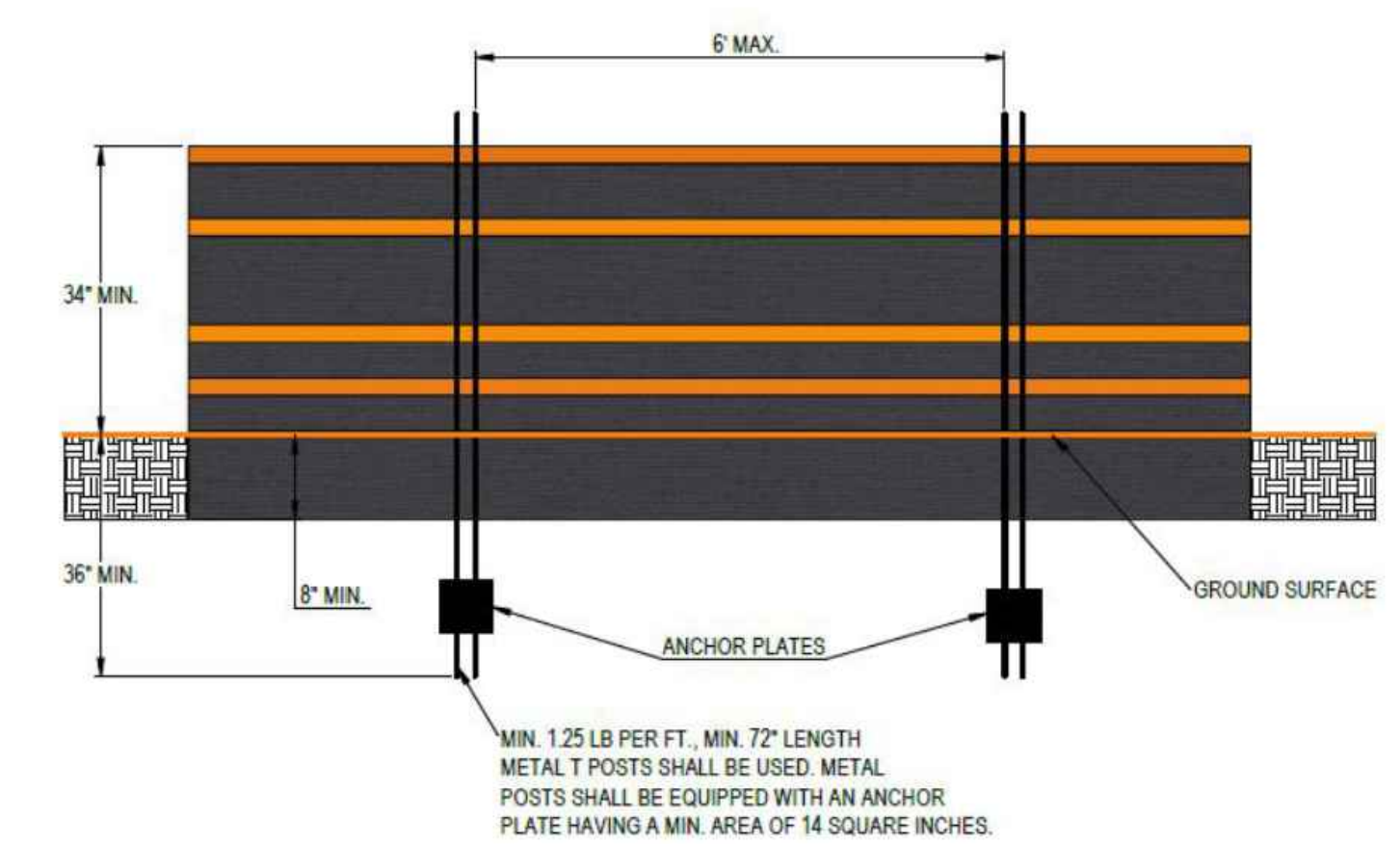


For more information, contact our Inside Sales team at 800.448.3636 email at info@acfenv.com



## LET'S GET IT DONE

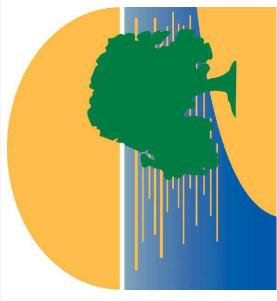
### SMARTFENCE® MD 42



SMARTfence® 42 is NTPEP Compliant GTX-2018-01-187



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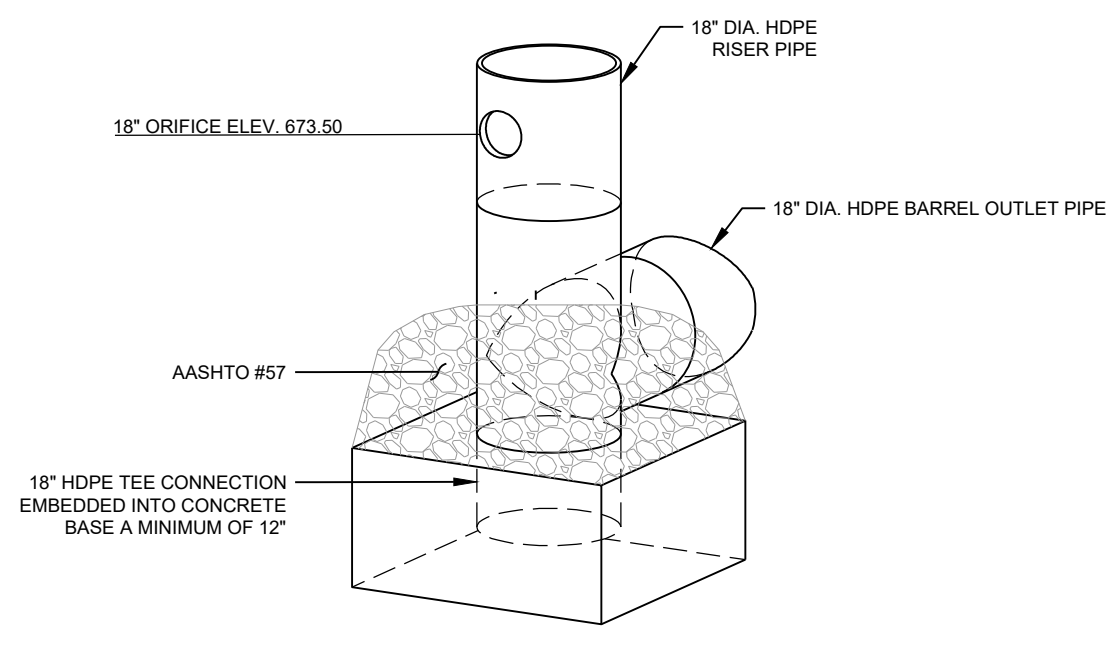
Project No.	25012269
Client	AS NOTED
Design Date	05/18/2026
Design By	JRK
Design Check	BCC
Design Review	BW
Design Approval	AS NOTED

EROSION & SEDIMENT CONTROL DETAILS  
2514 HANOVER PIKE, HAMPSTEAD, MD 21074  
PIEPER SOLAR S-26-0048  
TOWN OF HAMPSTEAD  
CARROLL COUNTY, MARYLAND

Sheet 0700-SCD

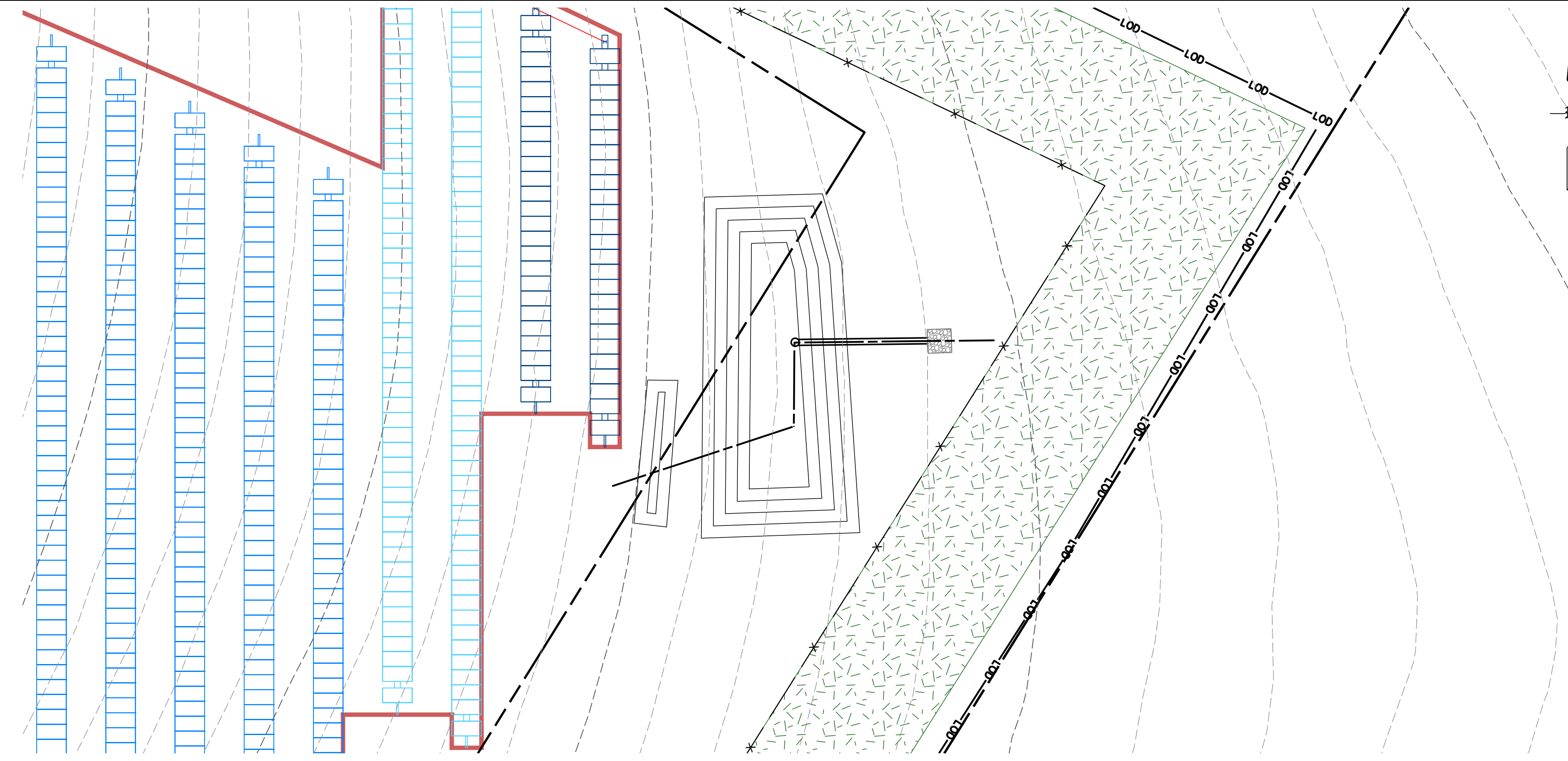
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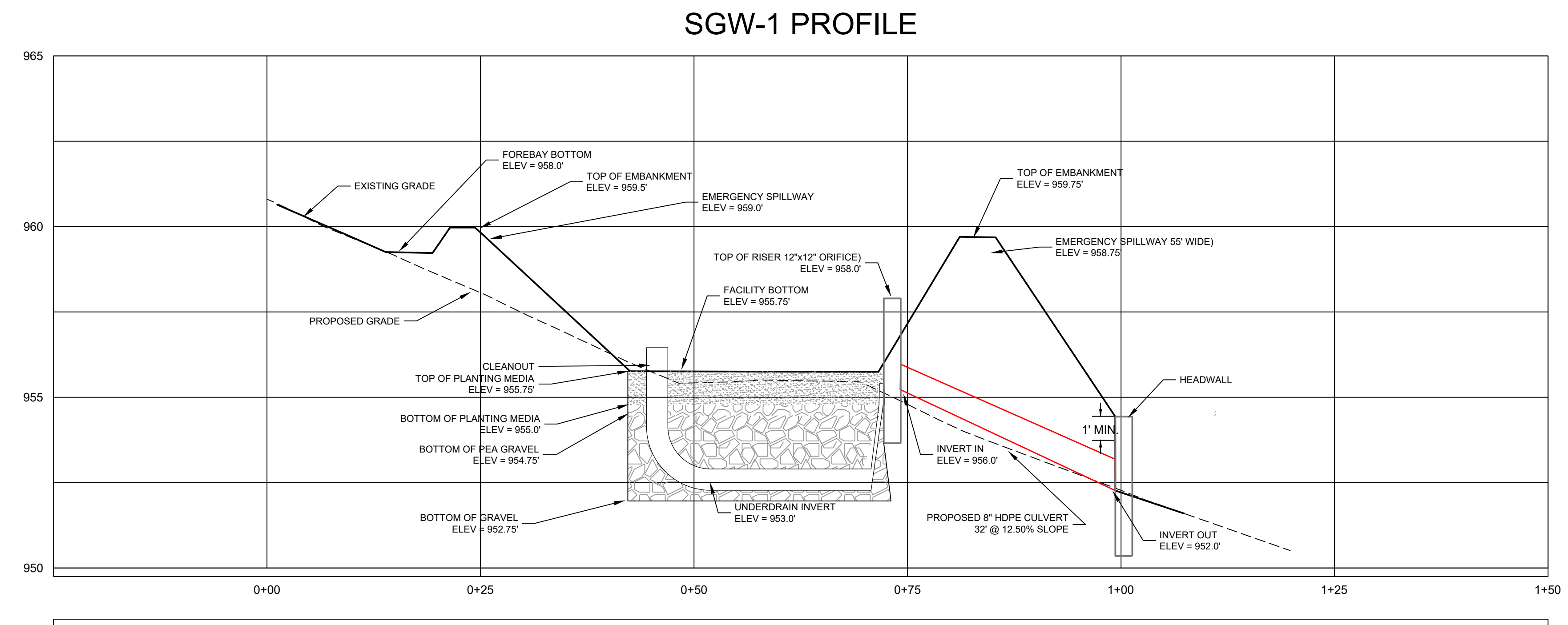


NOTE:  
1. RISER STRUCTURE SHOWN WITHOUT TRASH RACK FOR CLARITY.

**1** DETAIL  
SGW 1 - RISER PIPE  
NOT TO SCALE



**SUBMERGED GRAVEL WETLAND 1 - PLAN VIEW**  
SCALE: 1" = 20'



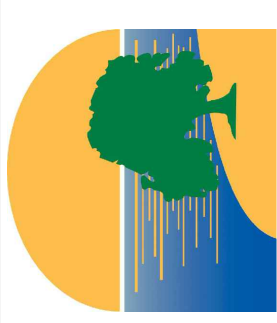
**SUBMERGED GRAVEL WETLAND 1 - CROSS SECTION**  
HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 2'

- NOTES:**
1. THE BASE MAP HAS BEEN CREATED USING A COMBINATION OF SURVEY AND AVAILABLE COUNTY GIS DATA.
  2. THIS PLAN IS IN THE MARYLAND STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD 83) COORDINATE SYSTEM.
  3. SOIL BOUNDARIES OBTAINED FROM THE NRCS WEB SOIL SURVEY.
  4. A BOUNDARY AND TOPOGRAPHICAL SURVEY FOR THE PARCEL WAS COMPLETED BY JHA ON APRIL 15, 2026.
  5. AN AQUATICS RESOURCE INVESTIGATION WAS COMPLETED BY ARM GROUP LLC ON FEBRUARY 25, 2026.
  6. ALL DIMENSIONS TO BE CONFIRMED ON-SITE PRIOR TO CONSTRUCTION. ALL DIMENSIONS ARE INDICATIVE ONLY AND IN FT. UNLESS OTHERWISE SPECIFIED.

**LEGEND**

NOTE: LEGEND IS TYPICAL, NOT ALL OBJECTS IN LEGEND APPEAR IN PLAN.

	EXISTING CONTOURS
	PROPERTY BOUNDARY
	ADJOINING PROPERTY LINE
	EXISTING RIGHT OF WAY
	EXISTING SETBACK
	EXISTING SOIL BOUNDARY & DESCRIPTOR
	EXISTING MONUMENTS
	EXISTING VERIFIED WETLANDS
	WETLAND BUFFER (25')
	EXISTING WATERCOURSE
	EXISTING DITCH
	EXISTING TREELINE
	EXISTING UTILITY POLE
	EXISTING WATER WELL
	EXISTING OVERHEAD ELECTRIC
	EXISTING FENCE
	EXISTING TELECOMMUNICATION LINE
	EXISTING PAVED ROAD
	EXISTING ACCESS ROAD
	EXISTING STRUCTURE
	10-15% SLOPES
	>15% SLOPES
	PROPOSED UTILITY POLE
	PROPOSED SINGLE-AXIS TRACKER SOLAR ARRAY
	PROPOSED CONTOURS
	PROPOSED ACCESS ROAD W/ GEOGRID
	PROPOSED PAVED ACCESS DRIVEWAY
	PROPOSED EQUIPMENT PAD
	PROPOSED FENCE
	PROPOSED LANDSCAPE BUFFER
	PROPOSED CONCEPTUAL LEVEL SPREADER
	PROPOSED CONCEPTUAL STORMWATER BMP
	PROPOSED DRIVE LINE
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED PAVED ROAD
	PROPOSED ST PIEPER SOLAR, LLC SITE BOUNDARY
	PROPOSED ST PIEPER SOLAR 2, LLC SITE BOUNDARY
	PROPOSED ST PIEPER SOLAR 3, LLC SITE BOUNDARY



Author	Checked	Drawn	Project No.	Scale	Date
BW	BCC	JRK	25012269	1" = 20'	05/18/2026

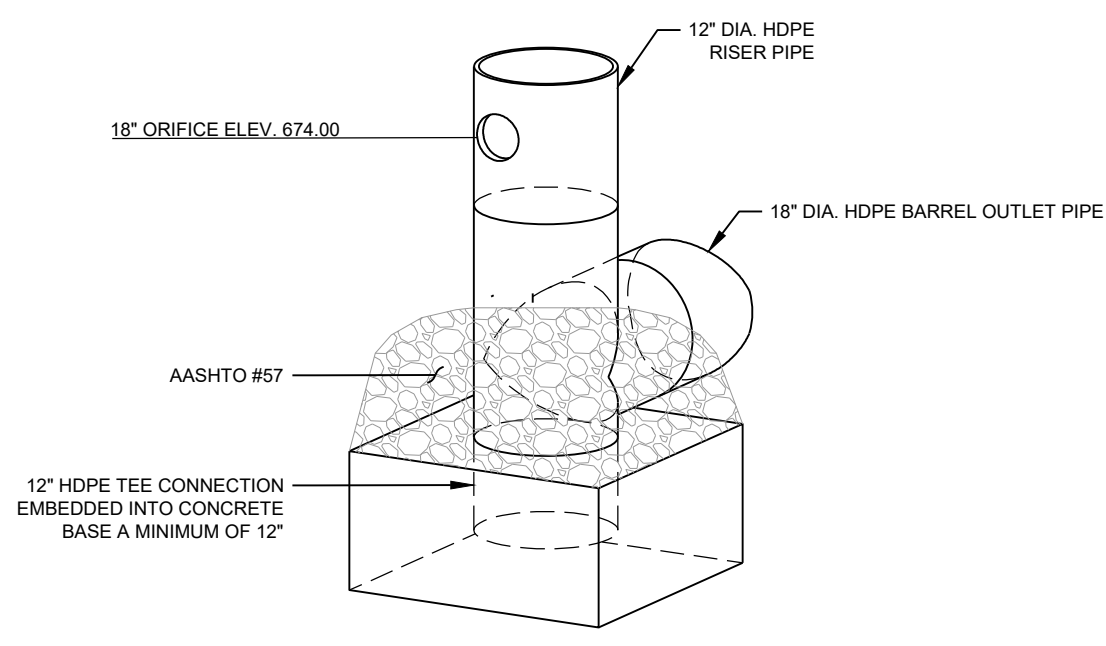
Revised	Checked	Drawn	Project No.	Scale	Date

**SUBMERGED GRAVEL WETLAND 1 CROSS SECTION**  
25114 HANOVER PIKE, HAMPSTEAD, MD 21074  
PIEPIER SOLAR  
S-26-0048  
TOWN OF HAMPSTEAD  
CARROLL COUNTY, MARYLAND

Sheet  
1000-SWD

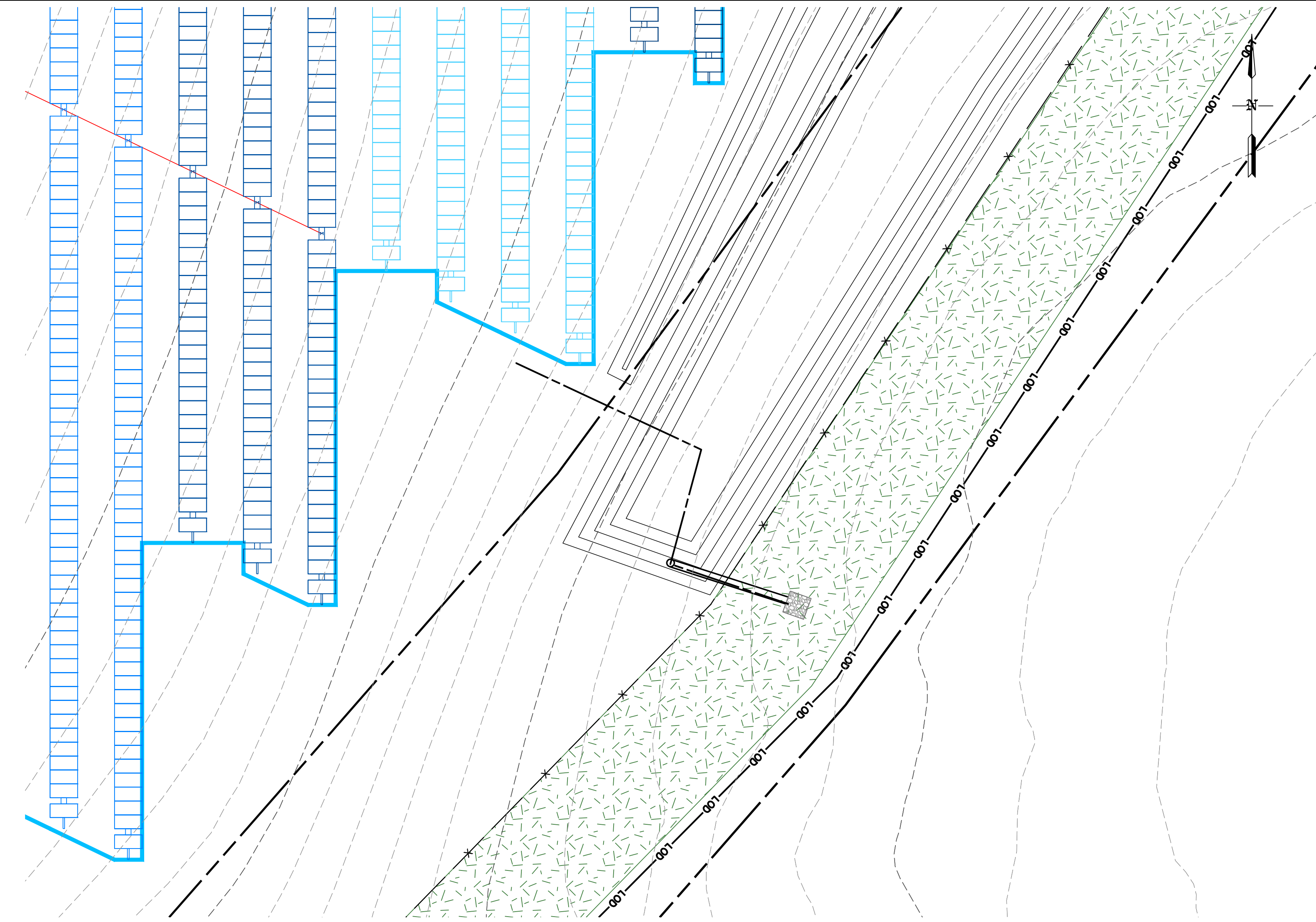
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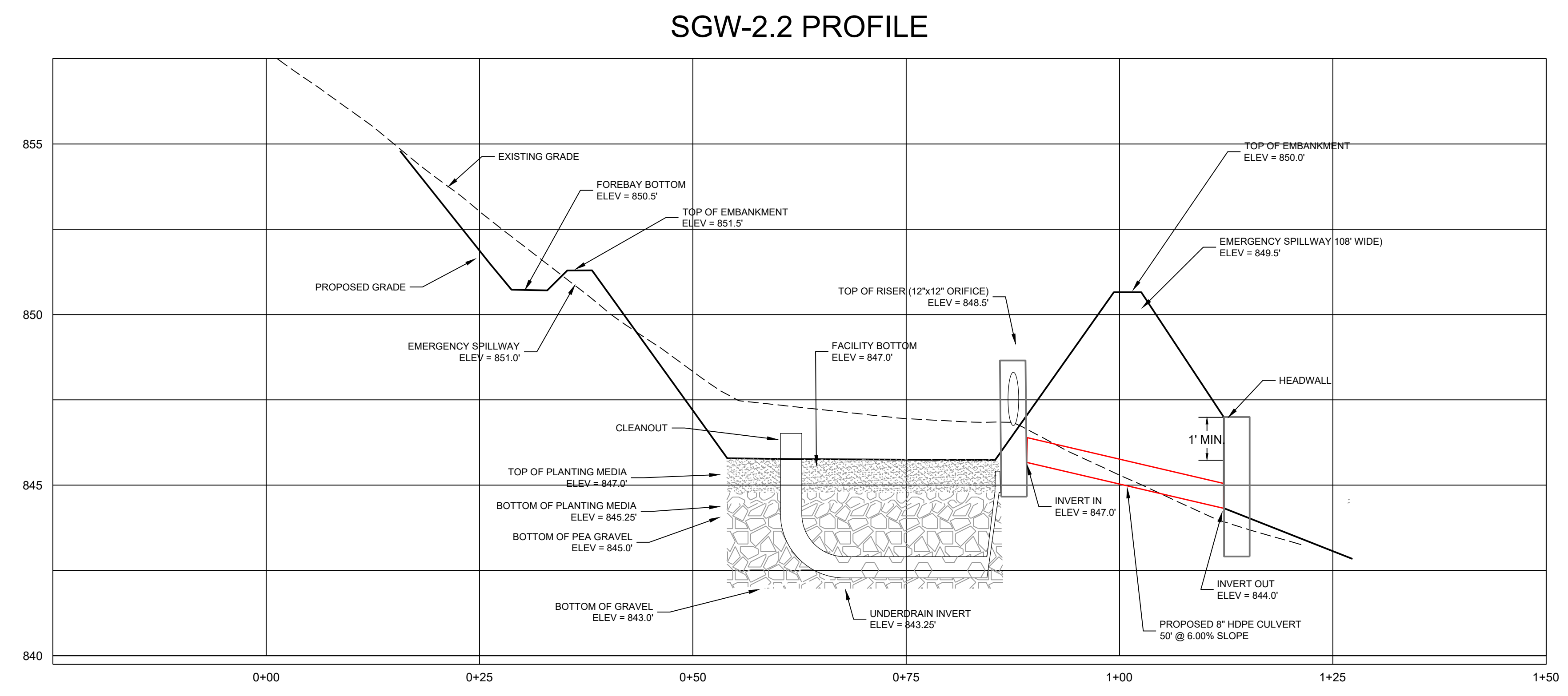
NOTE:  
1. RISER STRUCTURE SHOWN WITHOUT TRASH RACK FOR CLARITY.

**1** DETAIL  
SGW 2.2 - RISER PIPE  
NOT TO SCALE



**SUBMERGED GRAVEL WETLAND 2.2 - PLAN VIEW**

SCALE: 1" = 10'



**SUBMERGED GRAVEL WETLAND 2.2 - CROSS SECTION**

HORIZ. SCALE IN FEET  
0 10 20 30

HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 2'

VERT. SCALE IN FEET  
0 2 4 6

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**LEGEND**

- NOTE: LEGEND IS TYPICAL, NOT ALL OBJECTS IN LEGEND APPEAR IN PLAN.
- 600 --- EXISTING CONTOURS
  - --- PROPERTY BOUNDARY
  - --- ADJOINING PROPERTY LINE
  - --- EXISTING RIGHT OF WAY
  - --- EXISTING SETBACK
  - WeB --- EXISTING SOIL BOUNDARY & DESCRIPTOR
  - ○ EXISTING MONUMENTS
  - --- EXISTING VERIFIED WETLANDS
  - WB --- WETLAND BUFFER (25')
  - --- EXISTING WATERCOURSE
  - --- EXISTING DITCH
  - --- EXISTING TREELINE
  - ○ EXISTING UTILITY POLE
  - ○ EXISTING WATER WELL
  - OE --- EXISTING OVERHEAD ELECTRIC
  - X --- EXISTING FENCE
  - T --- EXISTING TELECOMMUNICATION LINE
  - --- EXISTING PAVED ROAD
  - --- EXISTING ACCESS ROAD
  - --- EXISTING STRUCTURE
  - 10-15% SLOPES
  - >15% SLOPES
  - ○ PROPOSED UTILITY POLE
  - --- PROPOSED SINGLE-AXIS TRACKER SOLAR ARRAY
  - 600 --- PROPOSED CONTOURS
  - --- PROPOSED ACCESS ROAD W/ GEOGRID
  - --- PROPOSED PAVED ACCESS DRIVEWAY
  - --- PROPOSED EQUIPMENT PAD
  - --- PROPOSED FENCE
  - --- PROPOSED LANDSCAPE BUFFER
  - LS --- PROPOSED CONCEPTUAL LEVEL SPREADER
  - --- PROPOSED CONCEPTUAL STORMWATER BMP
  - --- PROPOSED DRIVE LINE
  - LOD --- PROPOSED LIMIT OF DISTURBANCE
  - --- PROPOSED PAVED ROAD
  - --- PROPOSED ST PIEPER SOLAR, LLC SITE BOUNDARY
  - --- PROPOSED ST PIEPER SOLAR 2, LLC SITE BOUNDARY
  - --- PROPOSED ST PIEPER SOLAR 3, LLC SITE BOUNDARY

**ARM Group LLC**  
Engineers and Scientists  
www.armgroup.net

Project No. 25012269  
Date 05/18/2026  
Scale 1" = 10'

Revised	By	Date

Scale in Feet  
0 10 20 30

Prepared	Checked	Drawn	Project No.
BW	BCC	JRK	25012269

Scale in Feet  
0 10 20 30

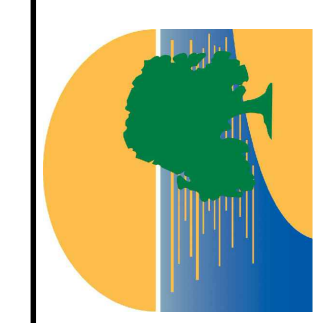
**SUBMERGED GRAVEL WETLAND 2.2 CROSS SECTION**  
2514 HANOVER PIKE, HAMPSTEAD, MD 21074

TOWN OF HAMPSTEAD  
CARROLL COUNTY, MARYLAND

PIEPIER SOLAR  
S-26-0048

Sheet  
1002-SWD

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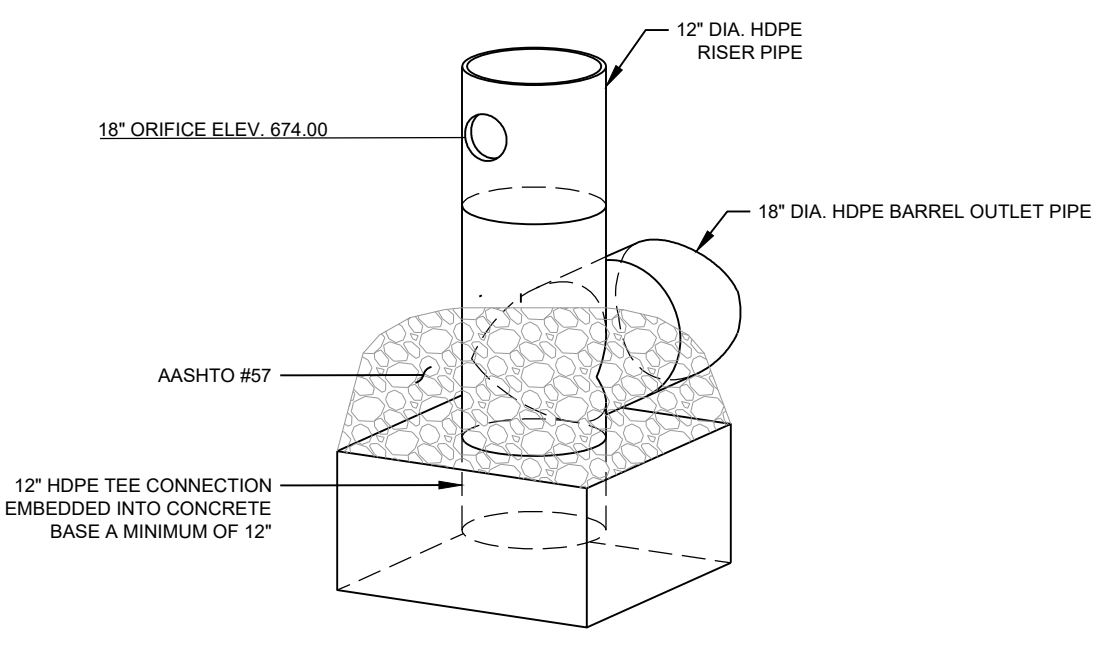


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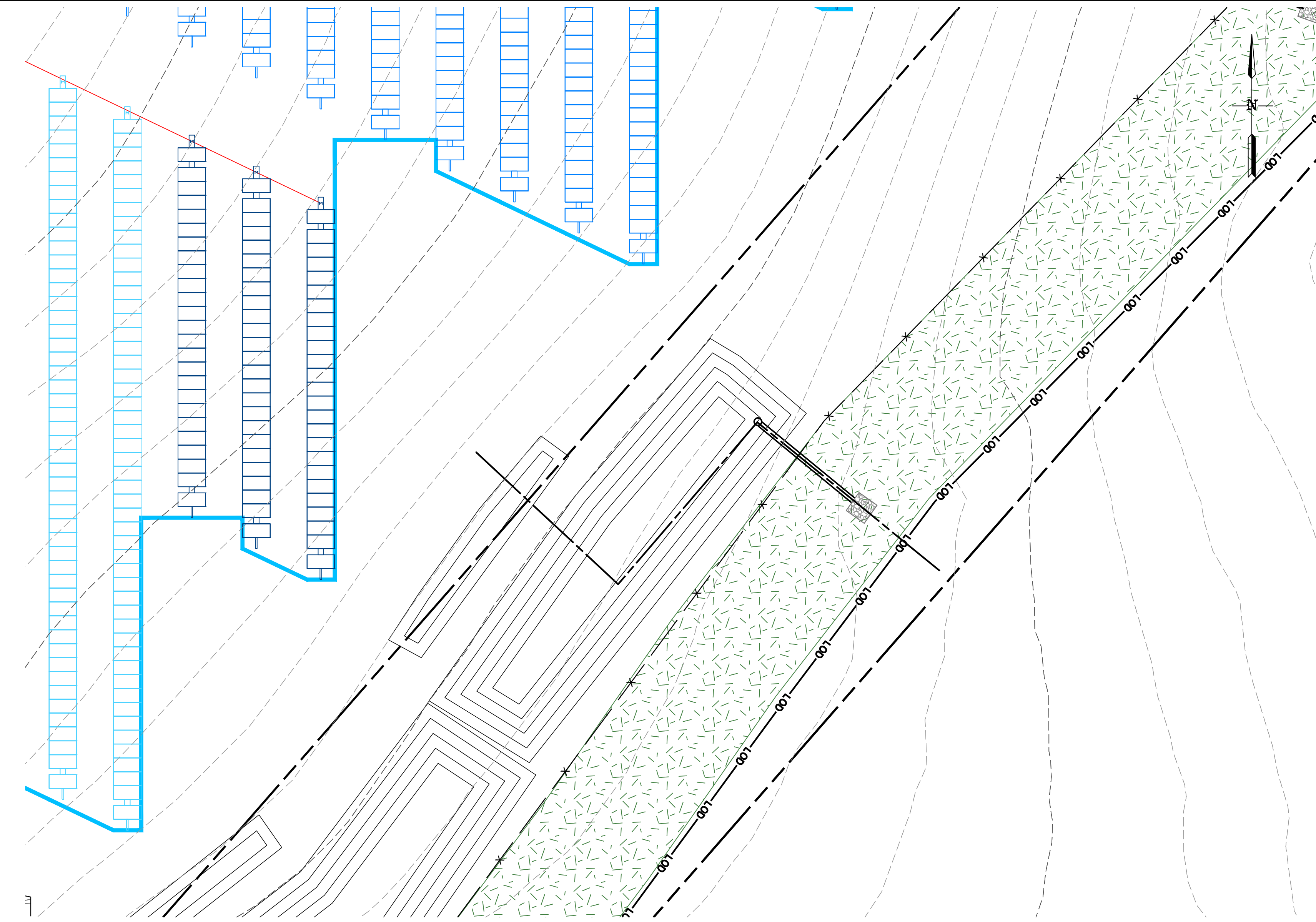
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  - PROPOSED ST PIEPER SOLAR 2, LLC SITE BOUNDARY
  - PROPOSED ST PIEPER SOLAR 3, LLC SITE BOUNDARY



NOTE:  
1. RISER STRUCTURE SHOWN WITHOUT TRASH RACK FOR CLARITY.

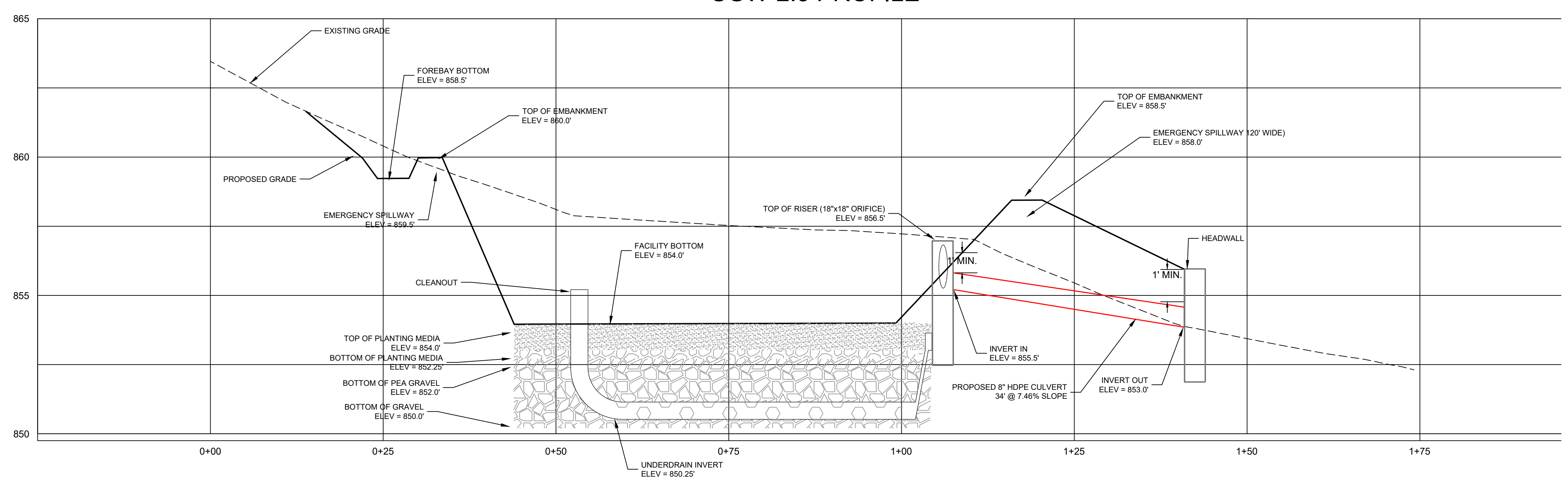
**1** DETAIL  
SGW 2.3 - RISER PIPE  
NOT TO SCALE



**SUBMERGED GRAVEL WETLAND 2.3 - PLAN VIEW**

SCALE: 1" = 10'

**SGW-2.3 PROFILE**



**SUBMERGED GRAVEL WETLAND 2.3 - CROSS SECTION**

HORIZ. SCALE IN FEET

HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 2'

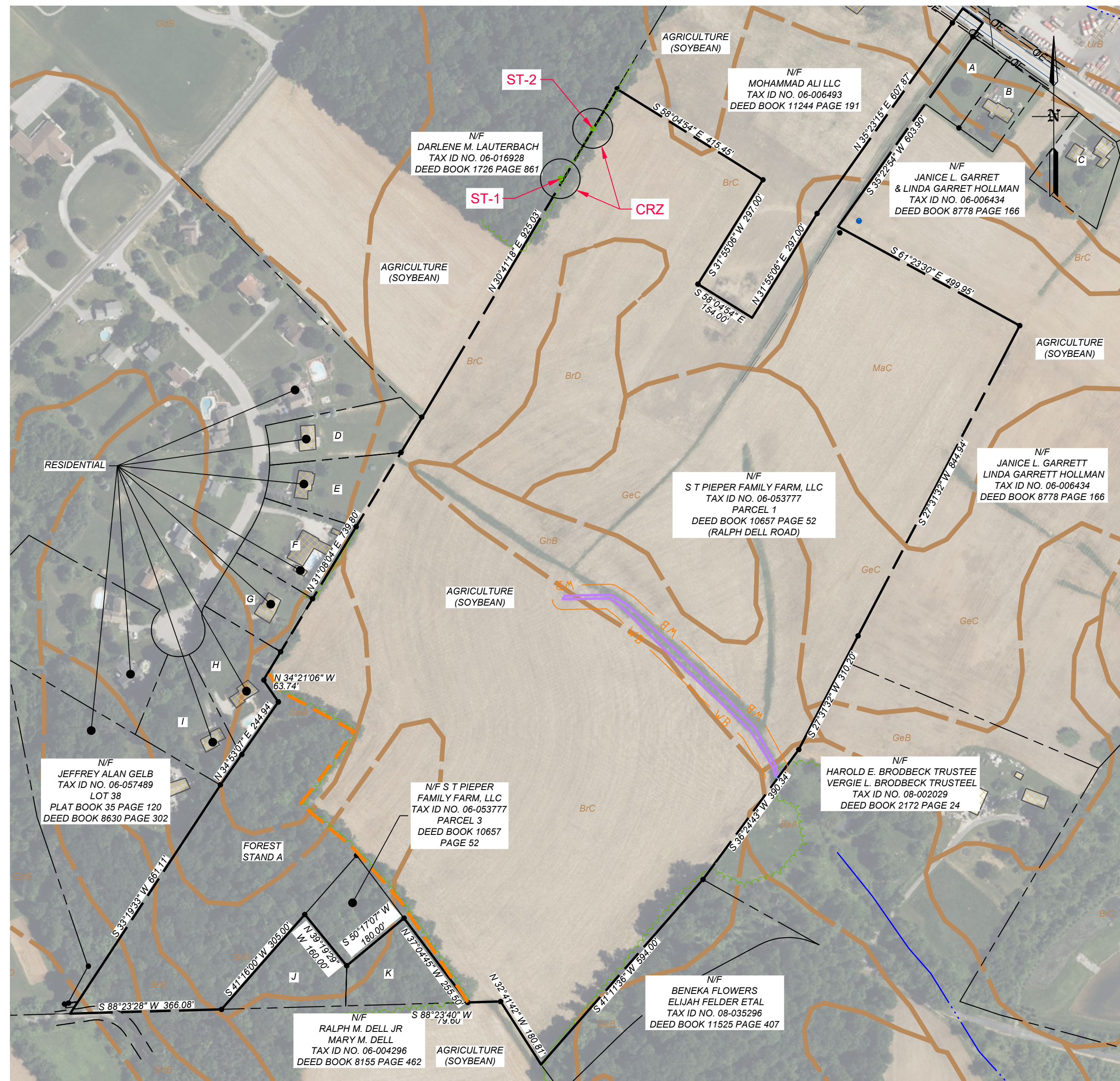
VERT. SCALE IN FEET

DATE	05/18/2026
SCALE	1" = 10'
PROJECT NO.	25012269
DESIGNER	JRK
CHECKER	BCC
APPROVED	BW

**SUBMERGED GRAVEL WETLAND 2.3 CROSS SECTION**  
2514 HANOVER PIKE, HAMPSTEAD, MD 21074  
PIEPER SOLAR  
S-26-0048  
TOWN OF HAMPSTEAD  
CARROLL COUNTY, MARYLAND

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**ENVIRONMENTAL NOTES:**

- THE FOREST STAND DELINEATION WAS CONDUCTED ON FEBRUARY 20, 2026, BY LAURA S. CALVERT AND JOSEPH G. ATZERT, MARYLAND DEPARTMENT OF NATURAL RESOURCE QUALIFIED PROFESSIONALS, WITHIN THE PROJECT'S GROSS TRACT AREA (+/- 57.9 ACRES). A DIAMETER TAPE WAS USED TO MEASURE THE DIAMETER OF THE TREES.
- WETLANDS AND OTHER SURFACE WATER FEATURES WERE DELINEATED BY ARM GROUP LLC ON FEBRUARY 20, 2026, WITHIN AN APPROXIMATELY 57.9-ACRE AREA OF INVESTIGATION (AOI). ONE LINEAR FEMIX (PALUSTRINE, EMERGENT, PERSISTENT, EXCAVATED) WETLAND AND ONE RARE (RIVERINE, INTERMITTENT, STREAMBED, RUBBLE) STREAM WERE IDENTIFIED WITHIN THE PROJECT AREA. TWO FARM DRAIN TILES WERE ALSO IDENTIFIED WITHIN THE AGRICULTURAL FIELD. ALL FEATURES ARE WITHIN THE AGRICULTURAL FIELD IN THE CENTRAL PORTION OF THE AOI. NO MARYLAND WETLANDS OF SPECIAL STATE CONCERN ARE MAPPED WITHIN THE PROJECT AREA.
- NO SPECIMEN TREES ARE PRESENT ALONG THE FOREST EDGE WITH THE AGRICULTURAL FIELD. TWO ARE PRESENT ALONG THE NORTHEASTERN PROPERTY BOUNDARY. CRITICAL ROOT ZONES WILL BE AVOIDED FOR ALL SPECIMEN TREES.
- THE PURPOSE OF THIS PROJECT IS FOR THE INSTALLATION OF A COMMUNITY SOLAR ENERGY SYSTEM WITHIN AN AGRICULTURAL FIELD. NO FOREST CLEARING IS NEEDED FOR COMPLETION OF THE PROJECT.
- THE NORTHERN PORTION OF THE PROJECT AREA IS WITHIN THE PRETTYBOY RESERVOIR WATERSHED (MDE 8-DIGIT WATERSHED #02130806), DRAINING GENERALLY NORTHEAST TOWARD OFFSITE MURPHY RUN. THE SOUTHERN PORTION OF THE PROJECT AREA IS WITHIN THE LIBERTY RESERVOIR WATERSHED (MDE 8-DIGIT WATERSHED #02130907) AND DRAINS GENERALLY EAST AND SOUTHEAST TOWARD UNNAMED TRIBUTARIES TO THE EAST BRANCH NORTH BRANCH PATAPSCO RIVER. ACCORDING TO CODE OF MARYLAND REGULATIONS (COMAR) 26.08.02.08, MURPHY RUN AND THE UNITS TO EAST BRANCH NORTH BRANCH PATAPSCO RIVER HAVE A DESIGNATED USE OF CLASS III-P (NONTIDAL COLD WATER AND PUBLIC WATER SUPPLY). THE PROJECT AREA CONTAINS NO TIER II STREAMS; HOWEVER, IT IS LOCATED WITHIN THE TIER II CATCHMENT AREAS OF NORTH BRANCH PATAPSCO RIVER AND MURPHY RUN, BOTH OF WHICH HAVE NO REMAINING ASSIMILATIVE CAPACITY. THE PROJECT IS NOT WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
- ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP PANEL NOS. 24013C01D (EFFECTIVE 10/2/2015) AND 24013C04D (EFFECTIVE 10/2/2015) NO 100-YEAR FLOODPLAINS ARE MAPPED WITHIN THE AOI.
- A LETTER WAS SUBMITTED ON MAY 12, 2026, TO THE MARYLAND DEPARTMENT OF NATURAL RESOURCES (MDNR) WILDLIFE AND HERITAGE DIVISION REQUESTING INFORMATION ON ANY KNOWN STATE-LISTED, RARE, THREATENED OR ENDANGERED SPECIES KNOWN TO OCCUR WITHIN THE PROJECT AREA.
- THE UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) INFORMATION FOR PLANNING AND CONSULTATION GENERATED ON FEBRUARY 9, 2026, REVEALED THE TRICOLORED BAT (*PERIMYOTIS SUBFLAVUS*), A PROPOSED ENDANGERED SPECIES, THE BOG TURTLE (*GLYPTEMYS MUEHLENBERGII*), A THREATENED SPECIES, AND THE MONARCH BUTTERFLY (*DANAUS PLEXIPPUS*), A PROPOSED THREATENED SPECIES. CONSERVATION MEASURES FOR THE TRICOLORED BAT AND MONARCH BUTTERFLY SHOULD BE CONSIDERED DURING THE DESIGN PROCESS.
- A LETTER SUBMITTED WAS SUBMITTED ON MAY 12, 2026, TO THE MARYLAND HISTORICAL TRUST (MHT) REQUESTING INFORMATION ON ANY RESOURCES WITHIN THE PROJECT AREA. ACCORDING TO MHT'S CULTURAL RESOURCE INFORMATION SYSTEM (MEDUSA) A LISTED HISTORIC RESOURCE IS LOCATED ADJACENT TO THE AOI, THE BAKER FARM (CARR-615), IS MAPPED TO THE NORTHEAST OF THE AOI ALONG MARYLAND ROUTE 30.
- THE SITE CONTAINS ONE FOREST STAND IN THE SOUTHWESTERN EXTENT OF THE PROPERTY CLASSIFIED AS A MID-SUCCESS MIXED OAK AND HICKORY DECIDUOUS, MIXED HARDWOOD FOREST, IDENTIFIED AS STAND A. STAND A HAS BEEN IDENTIFIED AS A PRIORITY 1 AREA (FOR RETENTION) DUE TO ITS RELATIVELY SMALL SIZE AND LACK OF PRIMARY RETENTION PARAMETERS.
- STAND A IS LOCATED WITHIN THE SOUTHWESTERN EXTENT OF THE AOI. THIS STAND IS AN EARLY- TO MID-SUCCESS FOREST WITH A MODERATELY CLOSED CANOPY DOMINATED PRIMARILY BY CHESTNUT OAK (*QUERCUS MONTANA*) AND MOCKERNUT HICKORY (*CARYA TOMENTOSA*) WITH MINOR AMOUNTS OF PIGNUT HICKORY (*CARYA GLABRA*) AND BITTERNUT HICKORY (*CARYA CORDIFORMIS*). THE OPEN UNDERSTORY CONSISTS OF SWEET CHERRY (*PRUNUS AVIUM*) AND BLACK CHERRY (*PRUNUS SEROTINA*). STAND DENSITY IS RELATIVELY EVEN IN AGE AND SIZE WITH A PRIMARILY CLEAR UNDERSTORY AND HERBACEOUS LAYER. HERBACEOUS COVER WAS LIMITED MAINLY ALONG THE FOREST EDGE WITH THE AGRICULTURAL FIELDS. DOMINANT HERBACEOUS SPECIES INCLUDED JAPANESE STILTGRASS (*MICROSTEGIUM VIMINEUM*), JAPANESE HONEYSUCKLE (*LONICERA JAPONICA*), ORIENTAL BITTERSWEET (*CELASTRUM ORBICULATUS*), GIANT FOXTAIL (*SETARIA FABERII*), AND TEABERRY (*GAULTHERIA PROCBUMBENS*). A MODERATE AMOUNT OF DEAD DOWN WOODY DEBRIS WAS PRESENT THROUGHOUT THE STAND. INVASIVE SPECIES INCLUDING WINEBERRY (*RUBUS PROENCOLASIS*), JAPANESE HONEYSUCKLE, JAPANESE STILTGRASS, AND ORIENTAL BITTERSWEET PRESENT WITHIN STAND A, WITH A MORE DENSE PRESENCE ALONG THE EDGES OF THE FOREST STAND. INVASIVE SPECIES PRESENCE WAS LESS PREVALENT FURTHER INTO THE STAND. NO SPECIMEN TREES WERE IDENTIFIED WITHIN STAND A. THE OVERALL HEALTH OF STAND A IS MODERATE. EVIDENCE OF PAST TIMBER HARVESTING WAS OBSERVED THROUGHOUT THE STAND.
- THE INVASIVE SPECIES OF CONCERN MULTIFLORA ROSE (*ROSA MULTIFLORA*), JAPANESE HONEYSUCKLE, ORIENTAL BITTERSWEET, JAPANESE STILTGRASS, AND WINEBERRY IS DOMINANT ALONG THE FOREST EDGE WITH THE AGRICULTURAL FIELD. INVASIVE PLANT COVER WAS LESS PREVALENT FURTHER INTO THE FORESTLAND.
- OVERALL, THE FOREST ON SITE IS RELATIVELY HEALTHY AND PROVIDES HABITAT TO FOREST DWELLING SPECIES. PORTIONS OF THE PROPERTY ARE BORDERED BY FOREST ALONG THE NORTHEASTERN AND SOUTHEASTERN PROPERTY BOUNDARIES. THE FORESTS WERE IDENTIFIED TO BE SIMILAR IN MAKE UP TO STAND A.

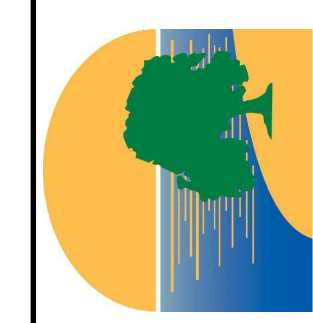
**NOTES:**

- THE BASE MAP HAS BEEN CREATED USING AERIAL IMAGERY AND AVAILABLE COUNTY GIS DATA.
- THIS PLAN IS IN THE PENNSYLVANIA STATE PLANE NORTH, NORTH AMERICAN DATUM 1983 (NAD 83) COORDINATE SYSTEM.
- SOIL BOUNDARIES AND INFORMATION OBTAINED FROM THE NRCS WEB SOIL SURVEY.
- HSG: HYDROLOGIC SOIL GROUP.
- \* HYDRIC SOIL TYPES PRESENT IN TRACT AREA.
- \*\* HIGHLY ERODIBLE SOILS LOCATED WITHIN THE TRACT AREA.

**LEGEND**

NOTE: LEGEND IS TYPICAL, NOT ALL OBJECTS IN LEGEND APPEAR IN PLAN.

---	EXISTING CONTOURS
---	PROPERTY BOUNDARY
---	ADJOINING PROPERTY LINE
---	EXISTING RIGHT OF WAY
---	EXISTING WATERCOURSE
---	EXISTING VERIFIED WETLANDS
---	EXISTING SOIL BOUNDARY & DESCRIPTOR
---	EXISTING MONUMENTS
---	EXISTING WATERCOURSE
---	EXISTING ENVIRONMENTAL FEATURES BUFFER
---	EXISTING TREETLINE
---	EXISTING UTILITY POLE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING TELECOMMUNICATION LINE
---	EXISTING FENCE
---	EXISTING PAVED ROAD
---	EXISTING ACCESS ROAD
---	EXISTING STRUCTURE
---	EXISTING GUIDELINE
---	15-25% SLOPES
---	>25% SLOPES
---	STAND BOUNDARIES
---	25' WETLAND BUFFER
---	STREAM BUFFER (WIDTH VARIES)
---	SPECIMEN TREE / CRZ



DATE	11/13/2026
SCALE	1" = 200'
PROJECT NO.	025012269
DATE	05/13/2026
SCALE	1" = 200'
PROJECT NO.	025012269

**PARCEL INFORMATION**

PARCEL NUMBER	PARCEL INFORMATION
A	NF JANICE L. GARRETT & LINDA HOLLIMAN GARRETT TAX ID NO. 06-016197 DEED BOOK 8778 PAGE 176
B	NF GERALD E. TOPPER TAX ID NO. 06-016189 DEED BOOK 6363 PAGE 261
C	NF JULIANA KROUPA TAX ID NO. 06-053807 DEED BOOK 11568 PAGE 481
D	NF MICHAEL K. LEACH & MARY V. LEACH TAX ID NO. 06-052800 DEED BOOK 2004 PAGE 902
E	NF DALE D. HENDERSON TAX ID NO. 06-052797 DEED BOOK 6998 PAGE 235
F	NF MATTHEW P. DIEHL & AMBER M. DIEHL TAX ID NO. 06-052789 DEED BOOK 10180 PAGE 421
G	NF JOSEPH E. FITZGERALD & ELIZABETH M. FITZGERALD TAX ID NO. 06-052770 DEED BOOK 7777 PAGE 113
H	NF MARTHA REED HARRIS II & RYAN JAMES SMITH TAX ID NO. 06-052762 DEED BOOK 10420 PAGE 446
I	NF SEAN A. MODERACKI & PAIGE M. MODERACKI TAX ID NO. 06-052754 DEED BOOK 9212 PAGE 107
J	NF S T PIEPER FAMILY FARM, LLC TAX ID NO. 06-053793 DEED BOOK 10657 PAGE 52
K	NF S T PIEPER FAMILY FARM, LLC TAX ID NO. 06-053785 DEED BOOK 10657 PAGE 52

**SOILS LEGEND**

SYMBOL	DESCRIPTION	HSG	AREA OF PARCEL (AC.)	% OF PARCEL
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.1	0.2 %
BcC	BRINKLOW CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	C	27.1	46.8 %
BfD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	C	7.5	13.0 %
BeE	BRINKLOW CHANNERY LOAM, 25 TO 45 PERCENT SLOPES	C	0.7	1.2 %
GeB	GLENELG CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	B	2.9	5.0 %
GeC	GLENELG CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	B	8.1	13.9 %
GiB	GLENELG-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	B	0.1	0.2 %
GiC	GLENELG-URBAN LAND COMPLEX, 8 TO 15 PERCENT SLOPES	B	0.1	0.2 %
GhB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	5.2	9.0 %
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	6.1	10.5 %
TOTAL FOR AREA OF INTEREST			57.9	100.0 %

TREE	SPECIES	SCIENTIFIC NAME	DIAMETER AT BREST HEIGHT (dbh)	HEALTH	CRITICAL ROOT ZONE
ST-1	WHITE OAK	<i>Quercus alba</i>	31.9"	FAIR	47.85'
ST-2	NORTHERN RED OAK	<i>Quercus rubra</i>	32"	FAIR	48'

**PLAN PREPARER CERTIFICATE**

JOSEPH G. ATZERT  
ARM GROUP LLC  
QUALIFIED PROFESSIONAL

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

PREPARED FOR DEVELOPER:  
CARROLL ST PIEPER SOLAR, LLC  
2514 HANOVER PIKE,  
HAMPSTEAD MD 21074

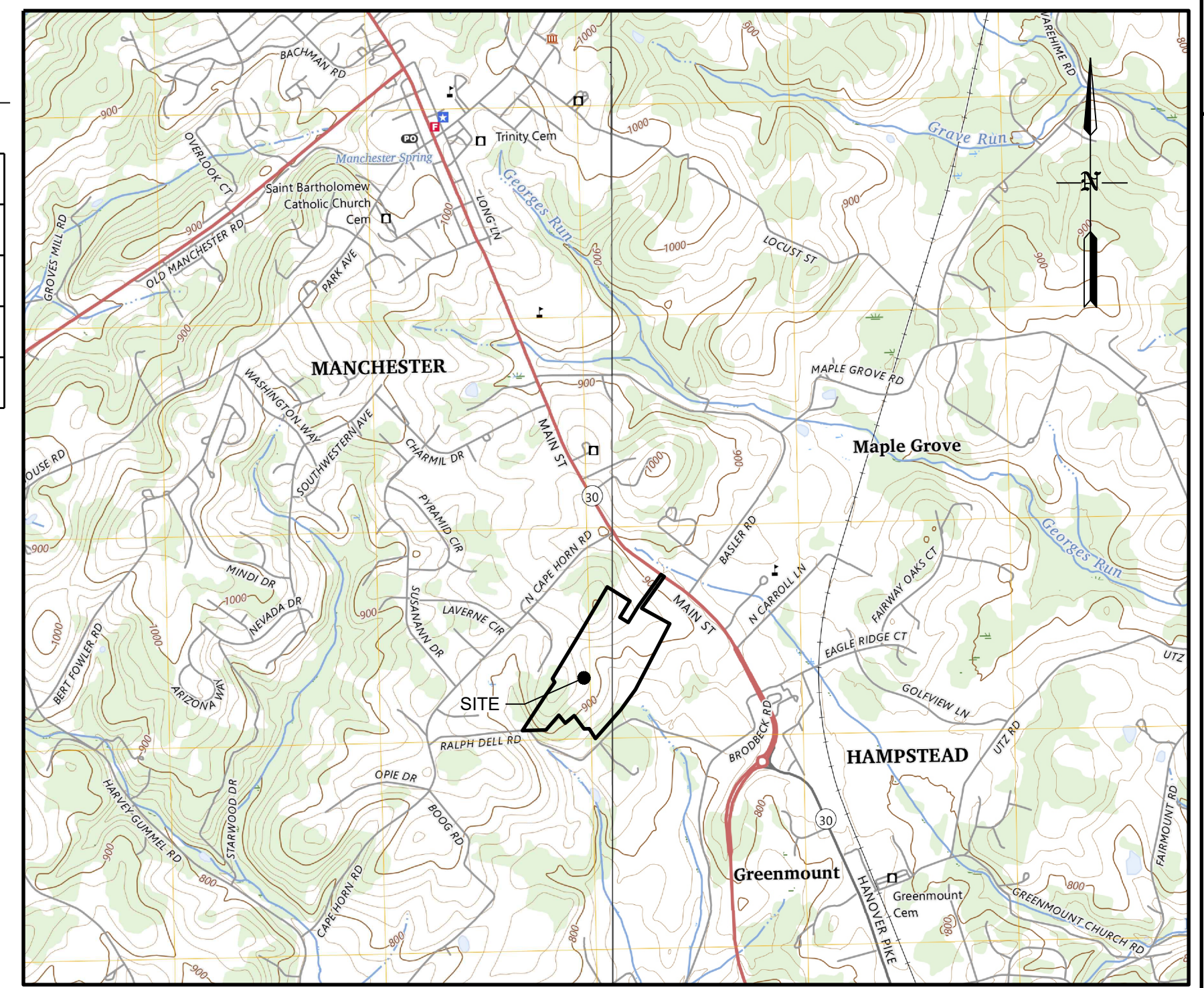
PROPERTY OWNER:  
S T PIEPER FAMILY FARM LLC  
2912 HUNTER MILL RD  
WHITE HALL MD 21161-0000

PREPARER:  
JOSEPH G. ATZERT  
ARM GROUP LLC  
1123 W GOVERNOR ROAD  
HERSHEY, PA 17033  
(717)508-0528

**RESOURCE TABLE**

RESOURCE	SIZE
TOTAL TRACT AREA	57.9 AC
WETLANDS	0.2 AC
STAND A	6.5 AC

- NATURAL RESOURCE INVENTORY INFORMATION:**
- TOTAL GROSS TRACT AREA: 2,522,124 SF (57.9 AC)
  - EXISTING FOREST AREA: 283,140.0 SF (6.5 AC)
  - EXISTING LAND USE: AGRICULTURE
  - INTENDED LAND USE: COMMUNITY SOLAR ENERGY GENERATING SYSTEM
  - PROJECT LOCATION:  
ADDRESS: 2514 HANOVER PIKE, HAMPSTEAD MD 21074
  - TAX MAP: 0032, GRID 0012, PARCEL ID 0690  
5.2. LATITUDE 39°38'19.63"N AND LONGITUDE 76°52'32.00"W  
5.3. (NORTH AMERICAN DATUM NAD83)  
ZONING: A = AGRICULTURAL
  - CRITICAL AREA NOT APPLICABLE, CHESAPEAKE AND ATLANTIC COASTAL BAY CRITICAL AREAS ARE NOT LOCATED WITHIN THE PROPERTY VICINITY



**VICINITY MAP**  
SCALE: 1" = 2000'

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**ARM Group LLC**  
Engineers and Scientists  
www.armgroup.net

**FOREST STAND DELINEATION PLAN**

HAMPSTEAD TOWNSHIP  
CARROLL COUNTY, MARYLAND

PIEPER SOLAR  
S-26-0048

Sheet 1400-FSP



