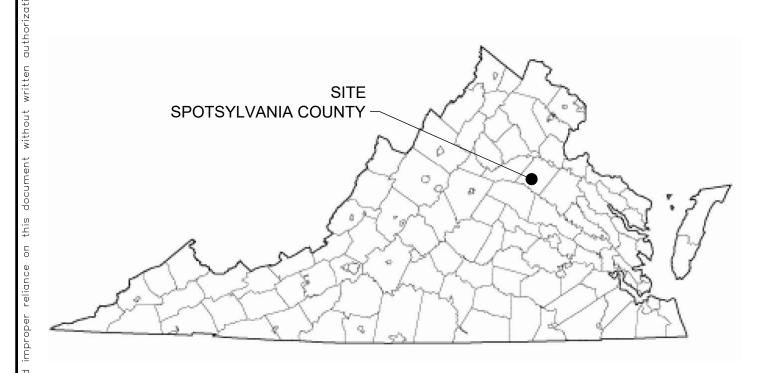
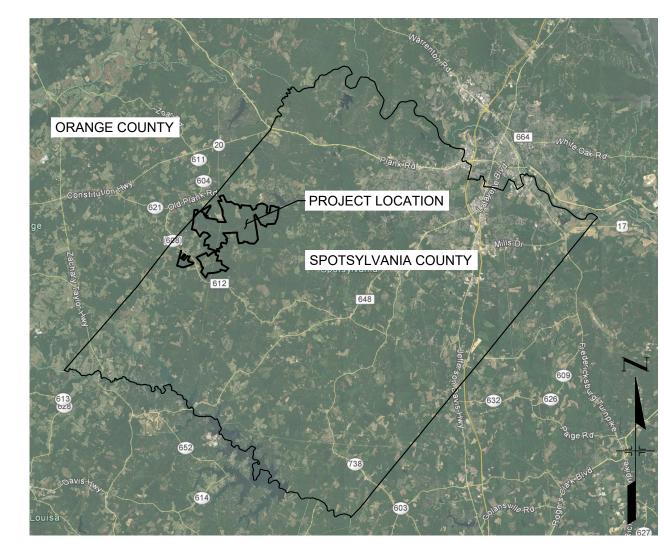
## GENERALIZED DEVELOPMENT PLANS SPOTSYLVANIA SOLAR ENERGY CENTER C SPECIAL USE PERMIT - SUP 18-0003 LIVINGSTON MAGISTERIAL DISTRICT SPOTSYLVANIA COUNTY, VA

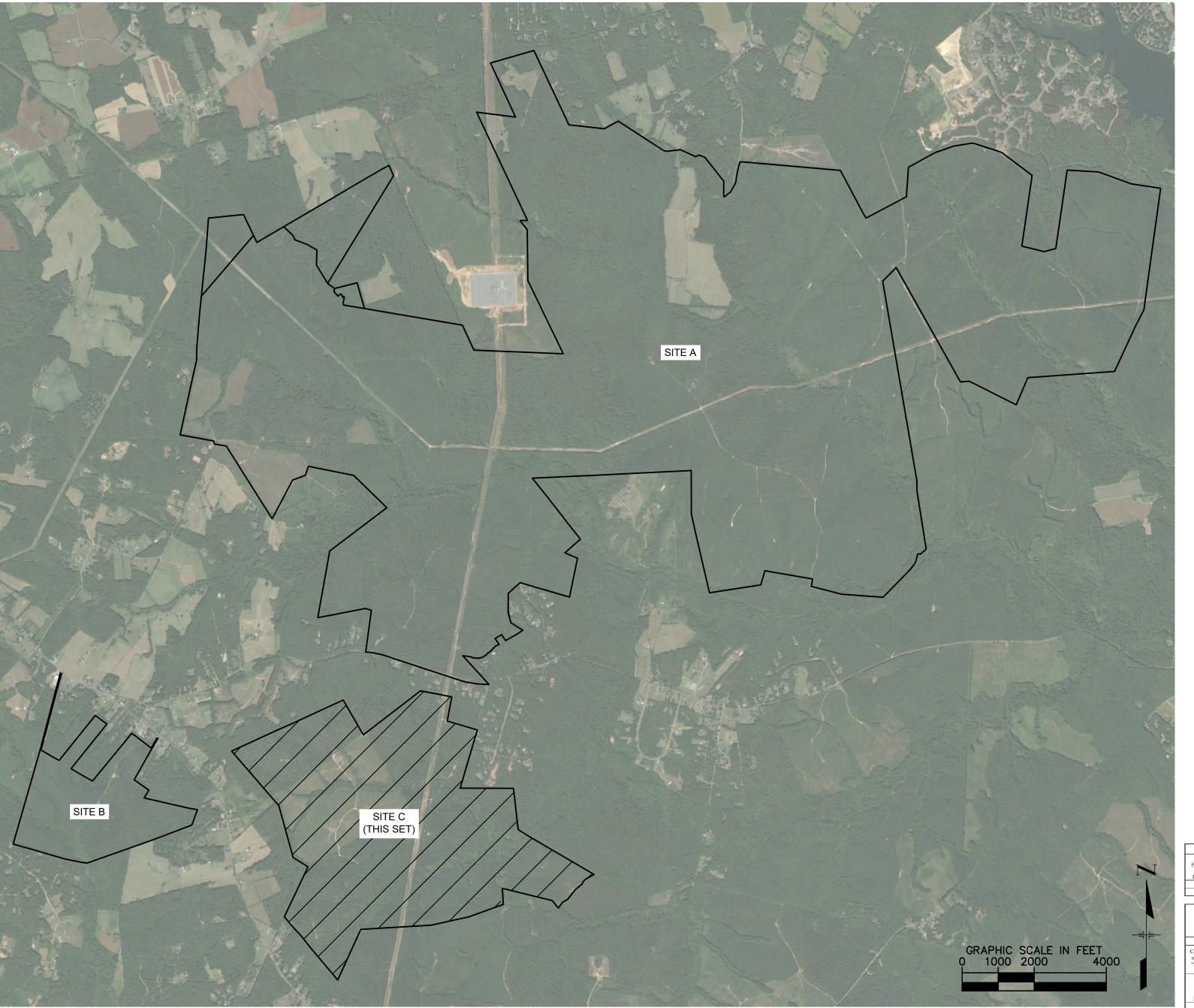




VICINITY MAP - SPOTSYLVANIA COUNTY, VA

SPOTSYLVANIA SOLAR E	ENERGY CENTER						
OWNER	sPOWER						
EXISTING AND PROPOSED ZONING	AGRICULTURE 3 (A-3)						
EXISTING USE	SILVICULTURE						
PROPOSED USE	SOLAR ENERGY FACILITY						
TOTAL POWER TO BE GENERATED	500 MEGAWATTS AC (MWac)						
OVERALL PROJECT SITE DATA:							
PROPERTY AREA	6,350 ACRES						
DISTURBED AREA	3,500 ACRES						
POWER GENERATED	500 MWac						
SITE A DATA:							
PROPERTY AREA	5,200 ACRES						
DISTURBED AREA	2,800 ACRES						
POWER GENERATED	400 MWac						
SITE B DATA:							
PROPERTY AREA	245 ACRES						
DISTURBED AREA	200 ACRES						
POWER GENERATED	30 MWac						
SITE C DATA:							
PROPERTY AREA	905 ACRES						
DISTURBED AREA	500 ACRES						

POWER GENERATED



**VICINITY MAP - PROJECT LIMITS** 

1" = 2,000'

Sheet List Table							
Sheet No.	Sheet Title						
C-01	GENERALIZED DEVELOPMENT PLAN COVER						
EX-3-1	GENERALIZED DEVELOPMENT PLAN						
EX-3-2	GENERALIZED DEVELOPMENT PLAN - 2						
EX-3-3	PRESERVATION AREA PLAN						
EX-3-4	LANDSCAPE AND BUFFER AREA PLAN						
EX-3-5	ACCESS ROAD SERVICE AREAS						
EX-3-6	COUNTY TRAIL OVERLAY PLAN						
CD-1	CIVIL DETAILS						
SHEETS 1-17	ALTA SURVEY						

0	WNER INFORMAT	ΓΙΟΝ				
OWNER		TAX MAP PAR	TAX MAP PARCEL NUMBER			
RIVEROAK TIMBERLAND IN	VESTMENTS LLC	43-A-3				
RIVEROAK TIMBERLAND IN	VESTMENTS LLC	29-A-7				
NO KNOWN AIRPORTS WITHIN	N 5-MILE RADIUS OF	SITE C.				
Cl	JLTURAL RESOUF	RCES				
NO KNOWN HISTORIC BUILDII	NGS OR FEATURES \	WITHIN PROXIMI	TY OF SITE.			
Ti	RAFFIC INFORMA	TION				
<ul> <li>VOLUMES SUBJECT TO CHA</li> <li>SEE TRAFFIC IMPACT ANAL'</li> <li>DISTRIBUTION AND RECOMM</li> <li>PROPOSED CONSTRUCTION</li> </ul>	YSIS AND EXHIBITS F ENDATIONS	FOR ADDITIONAL				
I	MPERVIOUS ARE	AS*				
	TOTAL	AREA (SF)	AREA (AC			
SOLAR PANEL POST** (0.11 SF EACH)	38094	4190	0.10			
INVERTER PAD (40' X 10')	22	8800	0.20			
GRAVEL DRIVES (12' WIDTH)	29336 LF	352035	8.08			
TOTAL IMP	8.38					
TOTAL IMPE	0.92%					
*IMPERVIOUS AREAS SHOWN NOT TO BE USED FOR DESIGN **PER DEQ REGULATIONS, ON TO BE USED TO CALCULATE I SUBJECT TO FINAL ENGINEER	N PURPOSES. NLY POLE MOUNTING IMPERVIOUS AREA. A	GS FOR THE SOL	.AR PANELS A			
WA	TER QUALITY (VR	RM)***				
TP LOAD REDUCT	ΓΙΟΝ REQUIRED (LB/	YR)	19.61			
	224 11					

SOLID WASTE DISPOSAL CALCULATIONS FOR CONSTRUCTION
FOR SITES A, B, AND C

					F	OR SITES	Α,	B, AND		,								
Step 3: Identification of Collection Method							Step 2: Determination of Minimum Storage Capacity											
Container Type							Determination of Minimum Storage Container and/or Dumpster Size											
(Compactors, Roll Off, Dumpsters, Carts	(Cubic Yards)		Number of Containers	Pi	Number of ckups Per Week	Material (Trash or Recycle)		Combined Annual Waste Stream		Cubic Yards Per Ton		Cubic Yards Per Ton		Cubic Yards Per Ton		Number of Annual Collections		Number of Container
Dumpsters	40 YD		2		1	Trash	x					(Minimum 52)		2)				
Dumpsters	40 YD		8		2	Recycle				X 4.44		52		2				
											+	A STATE OF THE STA	Ť	2				
	e.	a to	duania Caunty					Determinat	ion (	of Minimum Storage C	onta	iner and/or Dumps	ter S	size (Witho				
Spotsylvania County Non Residential Waste Generation  The purpose of this report is to calculate the annu generated from a proposed project and to ensure adequate col			nua	waste stream			Combined Annual Waste Stream		Cubic Yards Per Ton		Number of Annual Collections (Minimum 52)		Number of Container (Minimum 1)					
Step 1: Determination of Annual Waste Generation							3.25	х	4.44	÷	52	÷	1					
Complete the table for the proposed project being submitted. In the column label of square feet being occupied by each use. Multiply each square footage figure b "Annual Waste Generation Rate" column, and then list the value in "Annual Ton the "Annual Tonnage" column and enter the total next to "Combined Annual Tonnage" column and enter					gure by the corresp al Tonnage" colum	oonding value in the nn. Add all values in	Su	ifficient area sha	ll be	project must provide a provided at the collecti 1/2 of the total capacity	on c	enter to accommodat	еап	ninimum of				
	Annual Waste						Step 3: Identification of Collection Method											
Building Use	Floor Area (square feet)		Generation Rate (tons/sq ft)			e Generation Rate Tons)		Container Type (Compactors, Rol Off,		Size		Number of		Number o				
Office	2500	X	0.0013	=		3.25				(Cubic Yards)		Containers	P	ckups Per V				
Industrial		X	0.0016	=		0		Dumpsters, Carts				***************************************						
Food/Retail		X	0.0057	=	0			Dumpster		10		1		0.5				
Public Facility		X	0.00105	=		0												
Institution/School		X	0.00105	=		0												
Warehouse		X	0.00155	=		0												
Combined Annual Waste Stream						3.25												
,	,		,															

ll s)	Size (Cubic Yards)	Number of Containers	Number of Pickups Per Week	Material (Trash or Recycle)	Combined Annual		Cubic Yards Per Ton		Number of Annual Collections		Number of Containers (Minimum		
	40 YD	2	1	Trash	Waste Stream				(Minimum 52)		2)		
	40 YD	8	2	Recycle									H
			3.25	X	4.44	÷	52	÷	2	=			
			Determinat	tion (	of Minimum Storage C	onta	iner and/or Dump	ter !	Size (Without)	Rec	ye		
Spotsylvania County Non Residential Waste Generation Report					Combined Annual		Cubic Yards Per Ton		Number of Annual		Number of Containers		
The purpose of this report is to calculate the annual waste stream					Waste Stream				Collections		(Minimum		

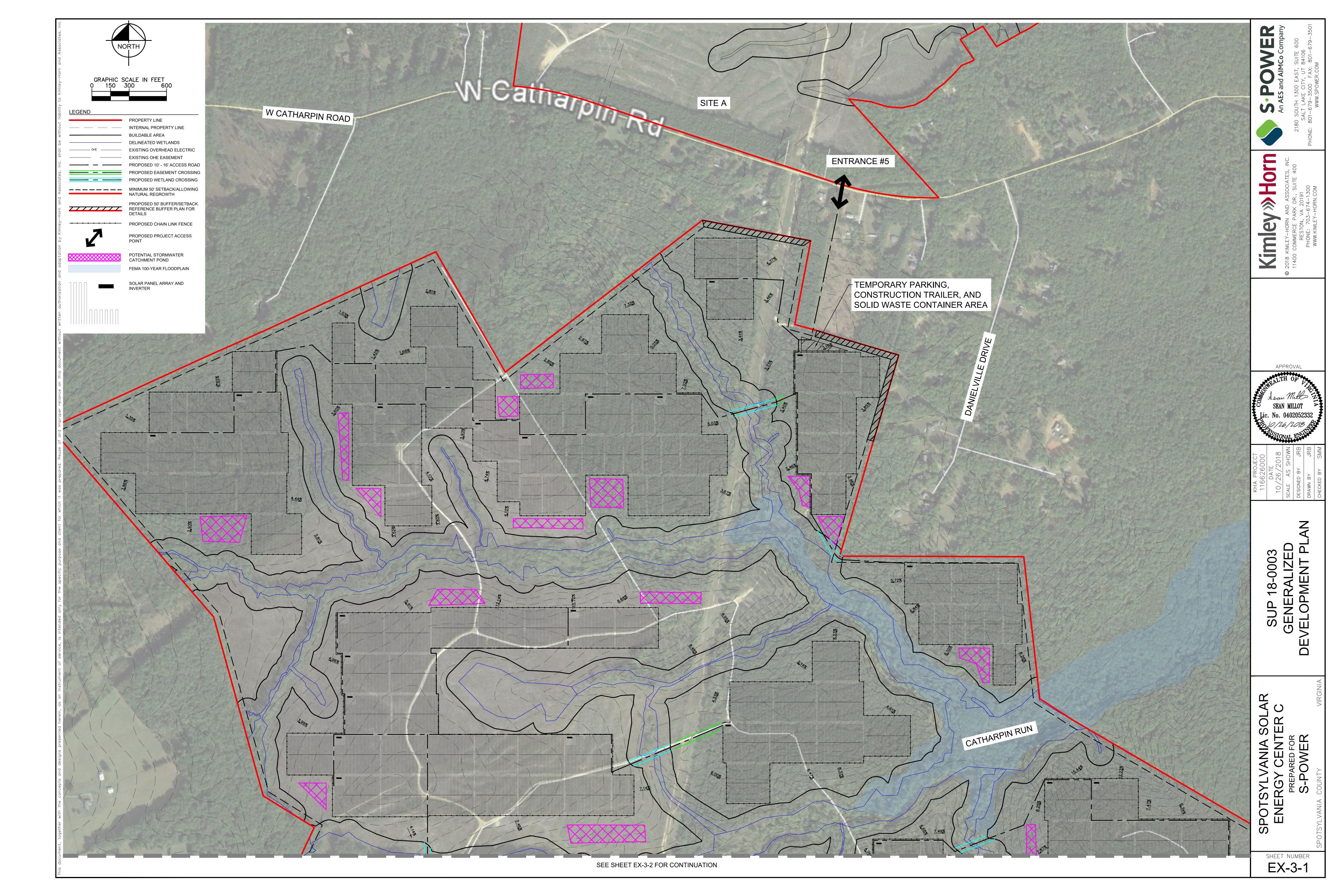
SHEET NUMBER

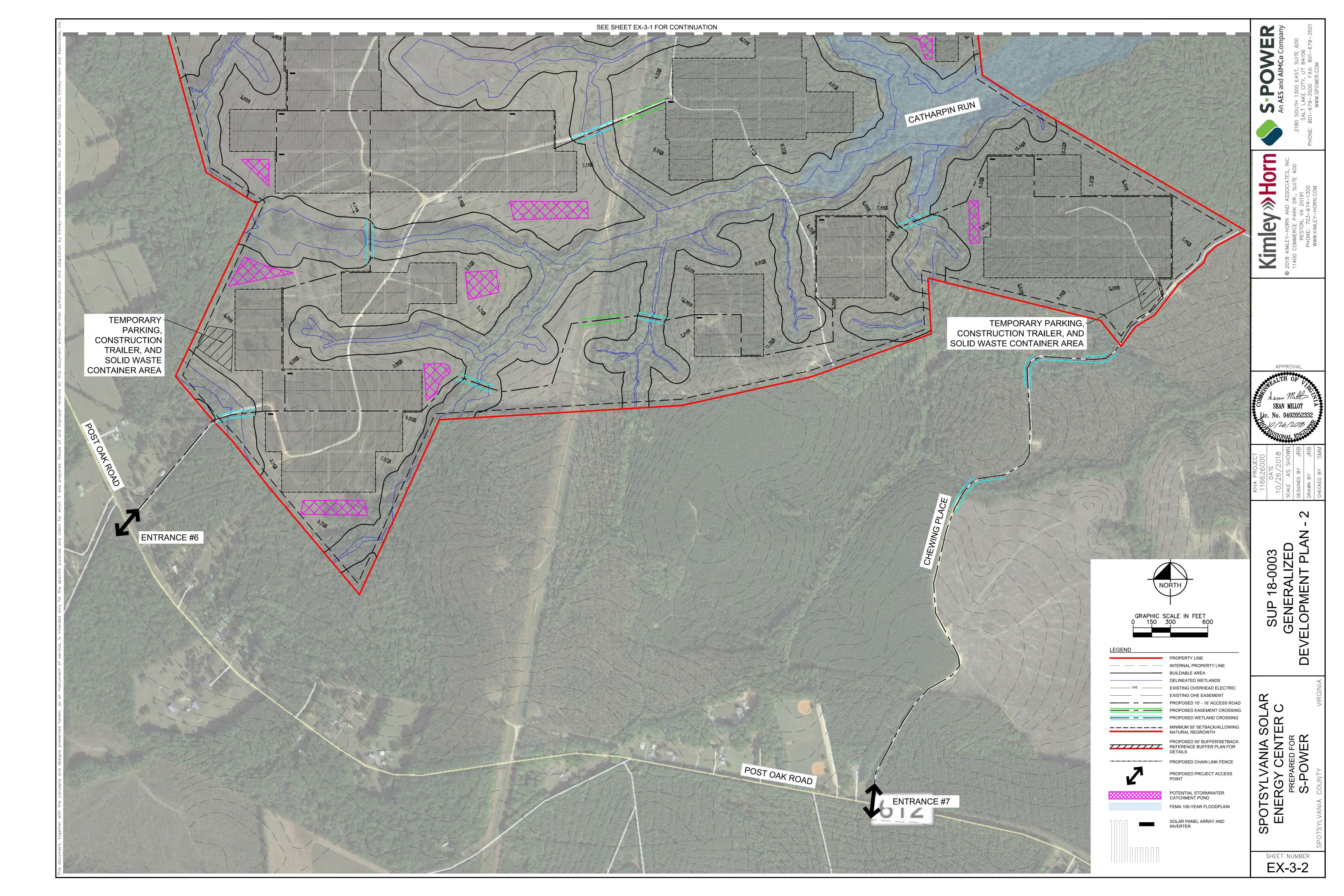
C-01

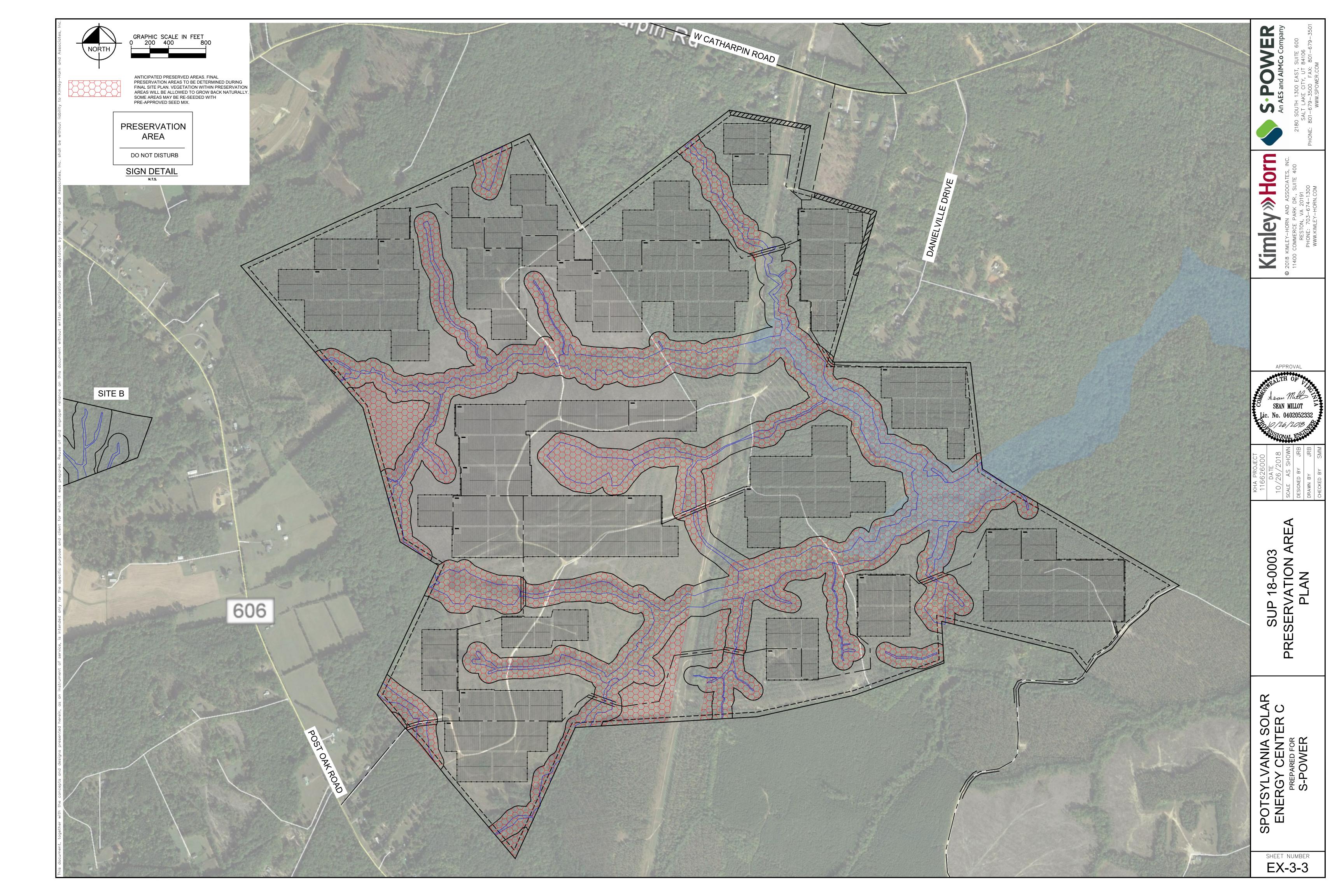
## OWNER/APPLICANT 2180 SOUTH 1300 EAST, SUITE 600 SALT LAKE CITY, UT 84106

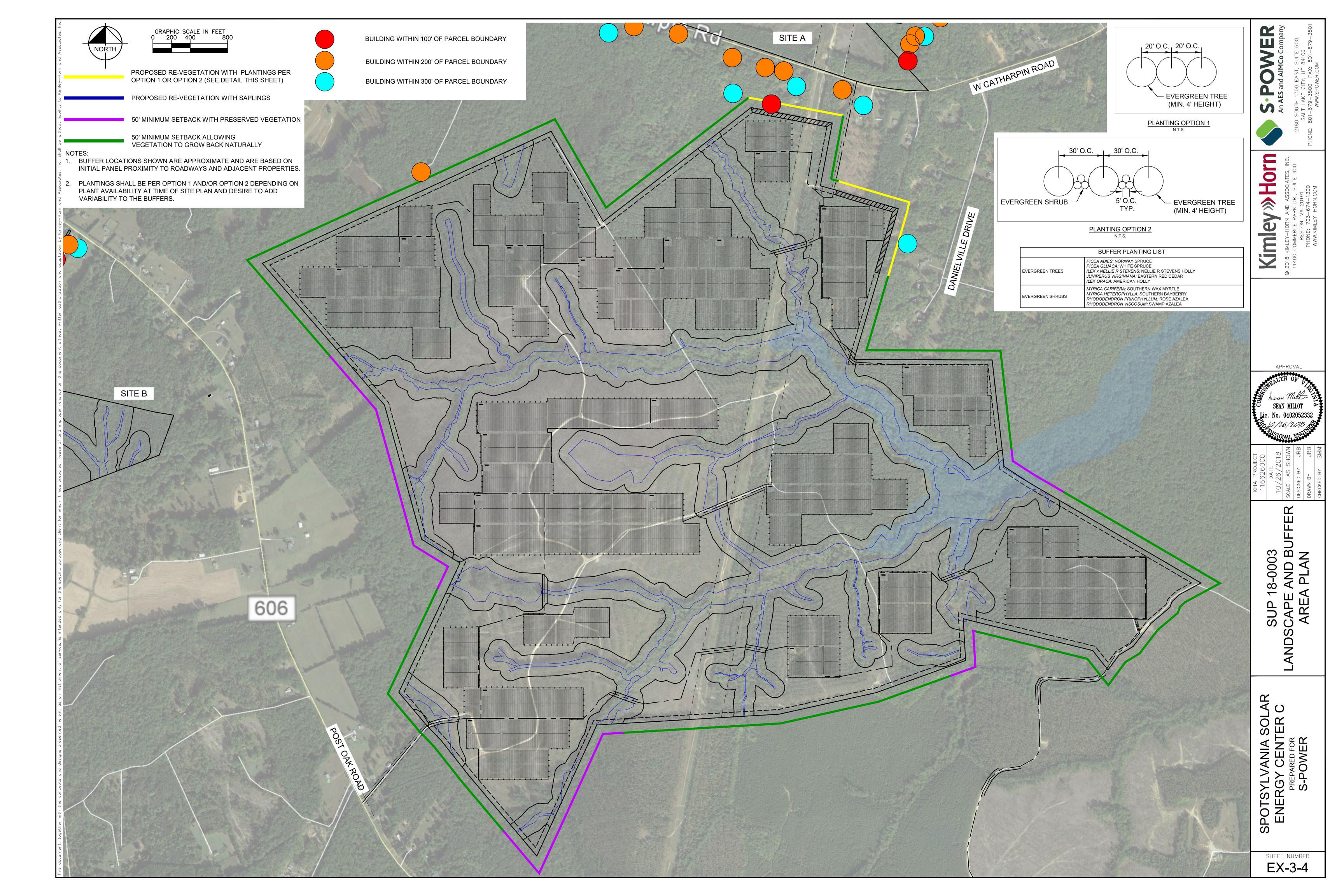
PHONE: 801-679-3513 CONTACT: DANIEL MENAHEM EMAIL: DMENAHEM@SPOWER.COM

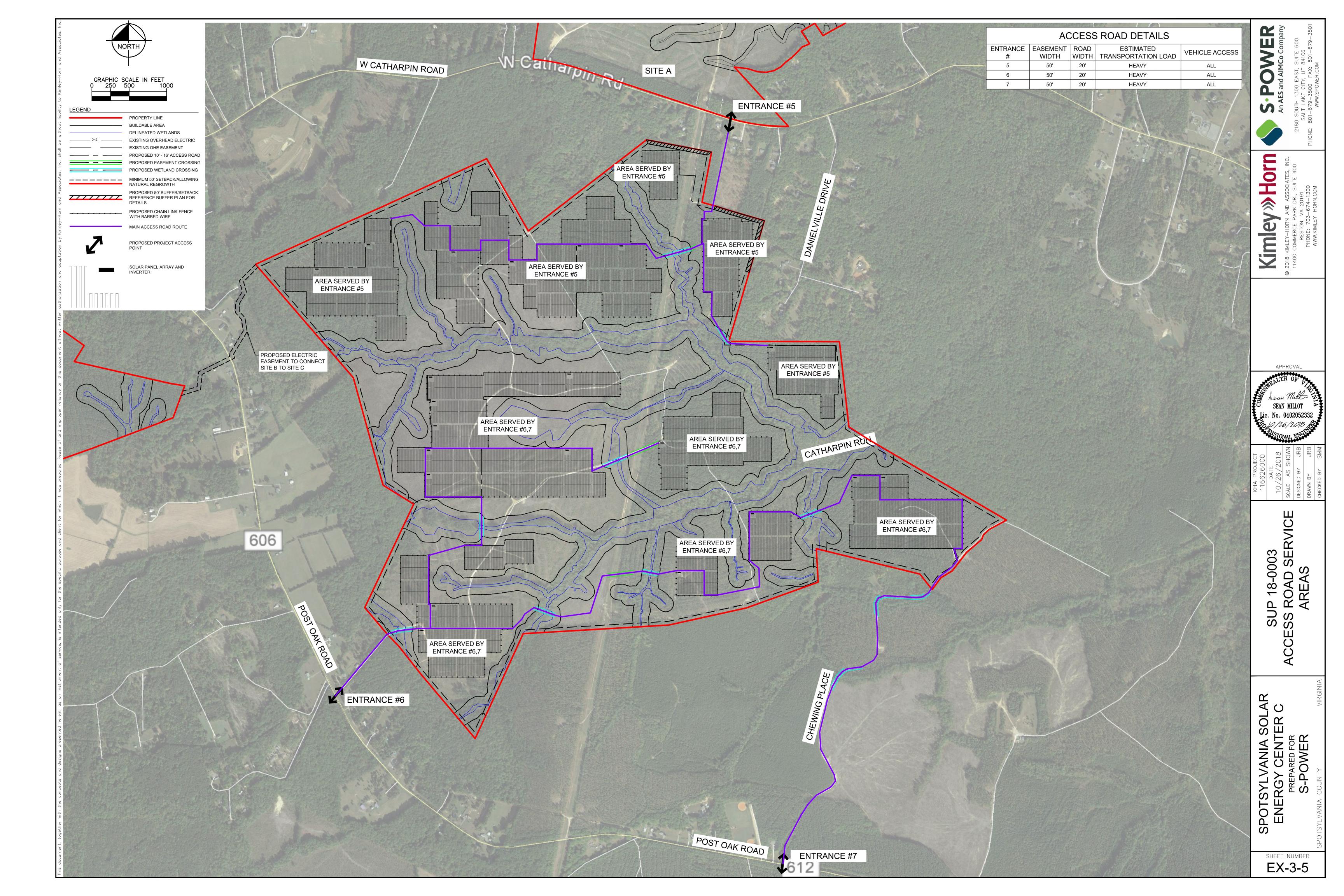
CIVIL ENGINEER KIMLEY-HORN AND ASSOCIATES, INC. 11400 COMMERCE PARK DRIVE, SUITE 400 RESTON, VA 20191 PHONE: 703-674-1337 EMAIL: SEAN.MILLOT@KIMLEY-HORN.COM

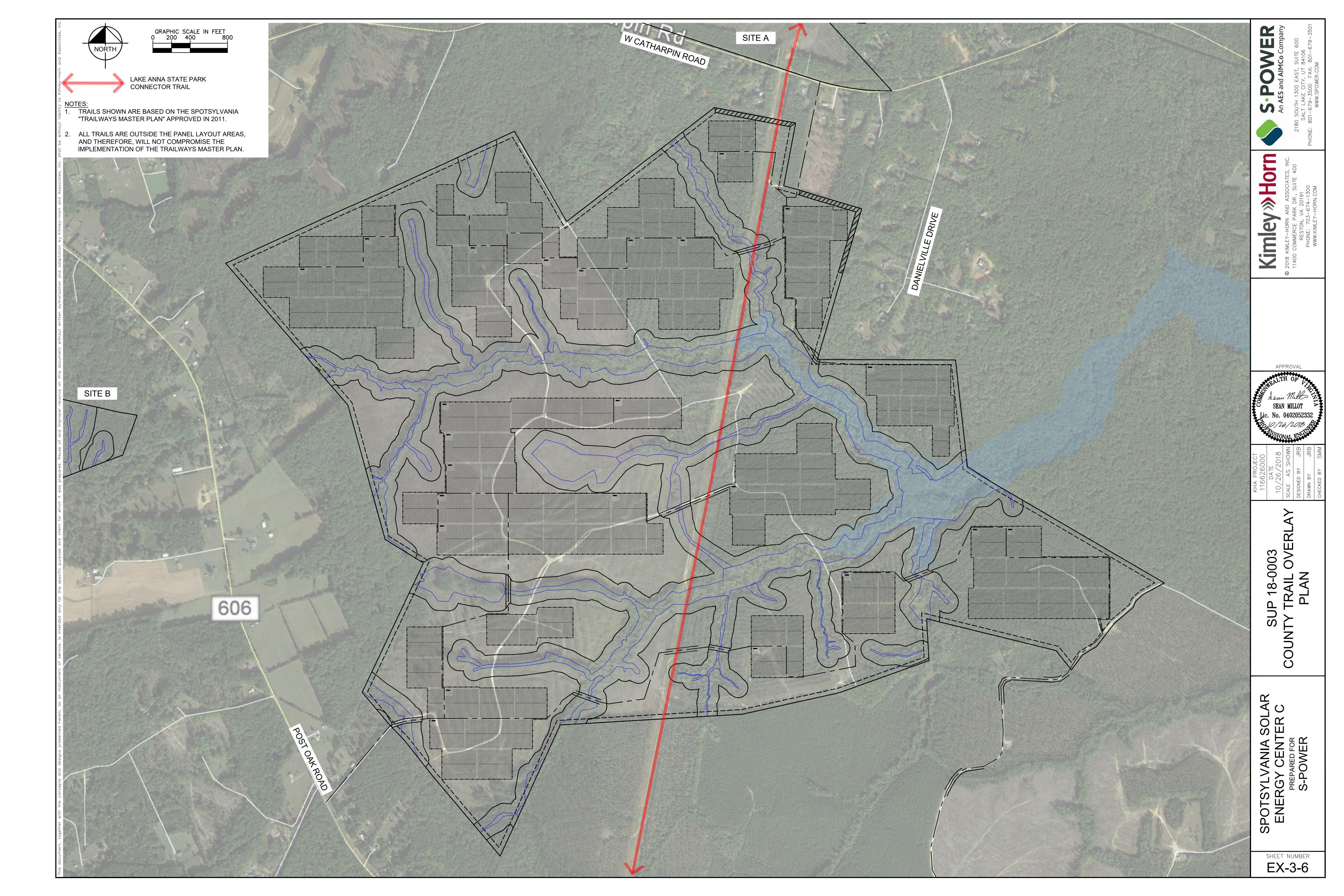


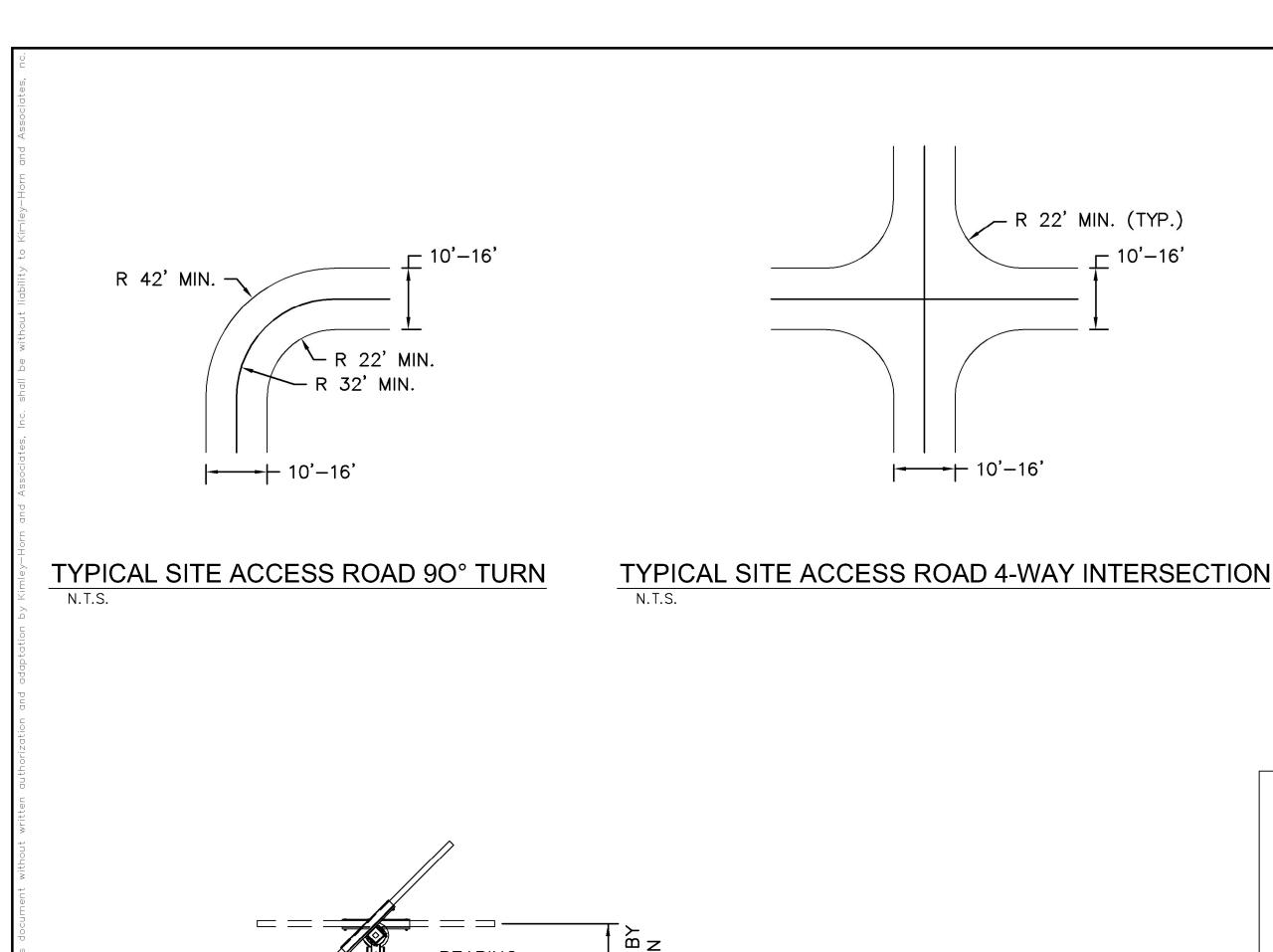












~FINISHED GRADE

-INSTALLED BY MEANS

OF PILE

DRIVING

-CONCRETE FOOTING (TYP)

TRACKER RACK AND FOUNDATION DETAIL

N.T.S.
NOTE: ACTUAL CONSTRUCTION DETAIL OF TRACKER RACK AND FOUNDATION MAY VARY FROM THIS DETAIL.

CHAIN LINK SECURITY FENCE

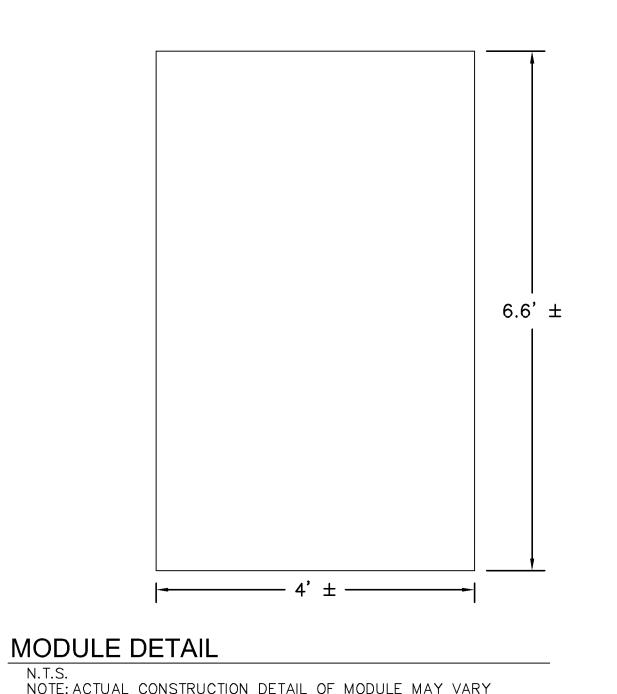
8, ± FINAL

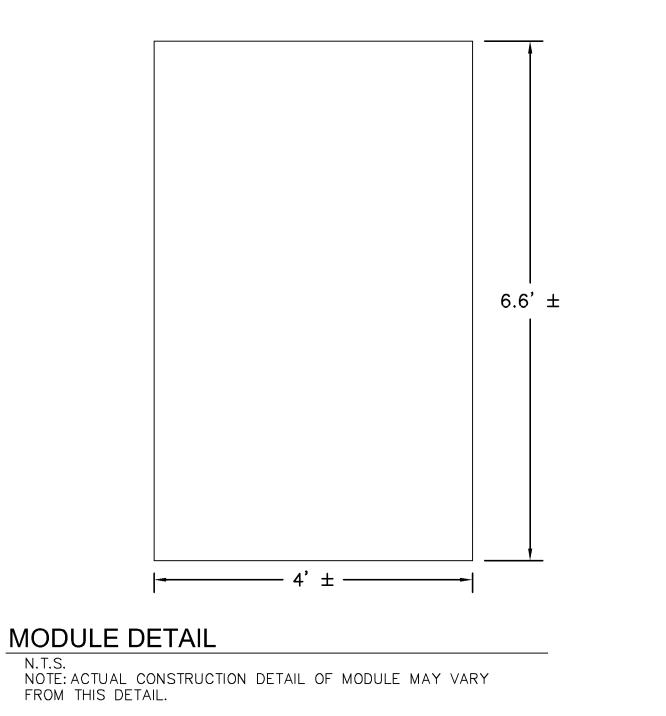
-7 GA COIL SPRING STEEL TENSION WIRE

-GALVANIZED CHAIN-LINK

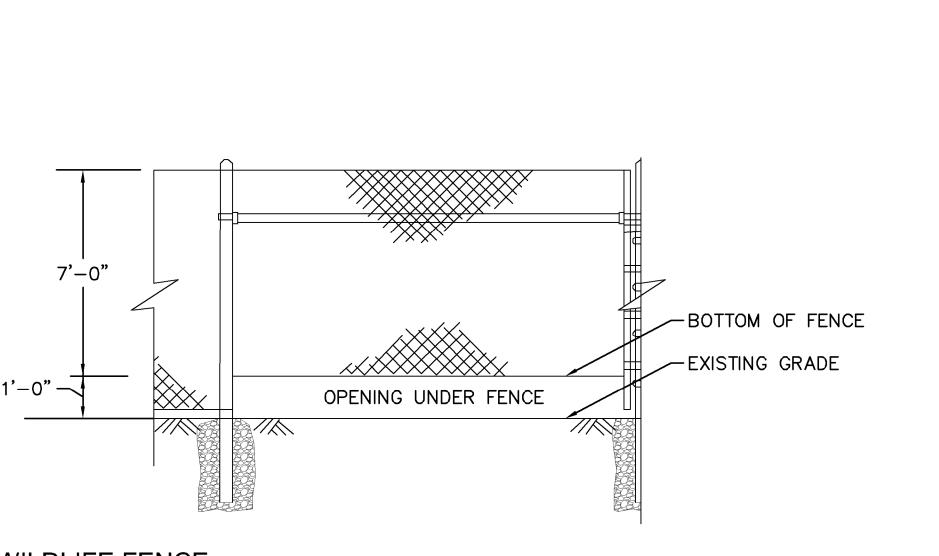
2" MESH, 9 GA

-EXISTING GRADE

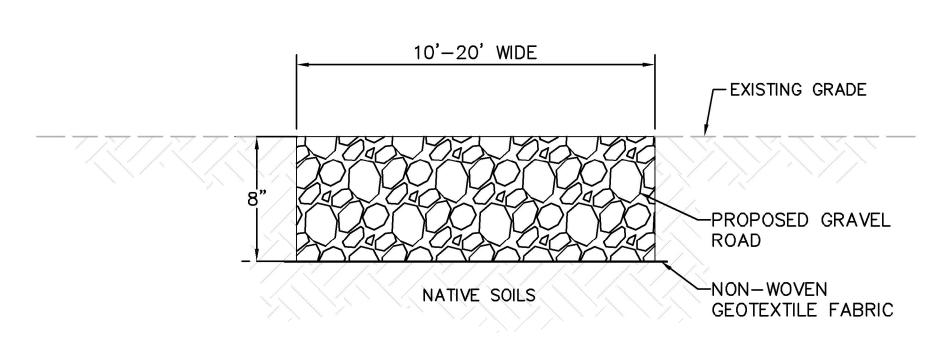




R 22' MIN. (TYP.) -







## NOTES:

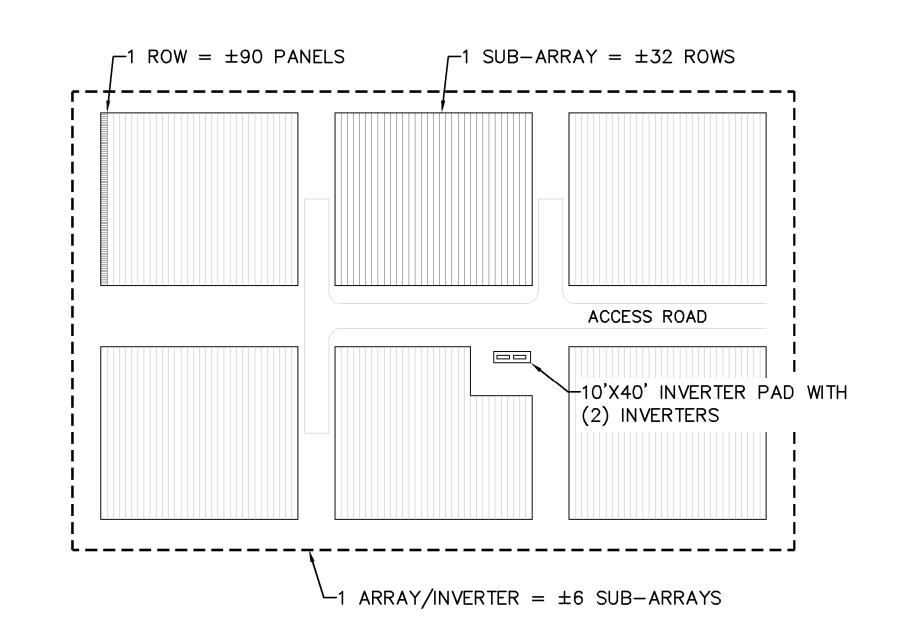
10'-16'

10'-16'

TYPICAL SITE ACCESS ROAD "T" - INTERSECTION

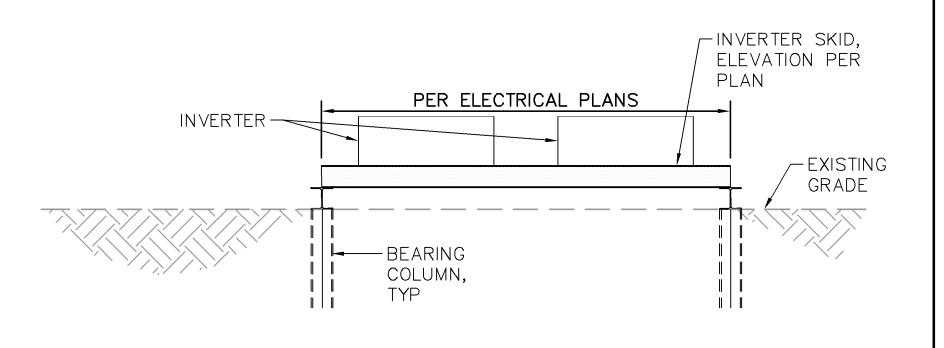
- REMOVE ALL GRASSES AND ORGANICS WITHIN ACCESS ROAD AREA.
- 2. SCARIFY, MOISTURE CONDITION, AND RE-COMPACT EXISTING NATIVE SOILS TO 90% OF THE
- MATERIAL'S ASTM D-1557 MAXIMUM DRY DENSITY. 3. COMPACTION SHALL BE VERIFIED BY TESTING BY THE GEOTECHNICAL CONSULTANT.

TYPICAL SITE ACCESS ROAD - GRAVEL ROAD SECTION



## **INVERTER BLOCK EXAMPLE**

NOTE: INVERTER PAD APPROXIMATELY 10'X40' WITH (2) 9'LX5.5'WX7.5'H INVERTERS SUBJECT TO FINAL ENGINEERING.



**INVERTER DETAIL** 

NOTE: INVERTER PAD APPROXIMATELY 10'X40' WITH (2) 9'LX5.5'WX7.5'H INVERTERS SUBJECT TO FINAL ENGINEERING.

POWER Ś

**Kimley** » Horn

APPROVAL

**TAILS** 8-0003 CIVIL

SPOTSYLVANIA SOLAR ENERGY CENTER C

SHEET NUMBER

CD-1