PROJECT CONTACTS

PROJECT DIRECTOR
DIRK CORN, SUNENERGY1

PROJECT MANAGER
BRADLEY FITE, SUNENERGY1

PROJECT ENGINEERING
KEITH HARDT, PE
PUNGO ENGINEERING

PROJECT DESIGN
DUSTIN SMITH, SUNENERGY1

PROJECT TITLE

SPRINGFIELD FARM SOLAR, LLC

80 MEGAWATT AC PHOTOVOLTAIC GROUND MOUNTED POWER PLANT IN ASHLAND, VIRGINIA

INDEX OF DRAWINGS

GENERAL PLANS	
G1.0	COVER SHEET
SITE LAYOUT	
SL2.0	PRELIMINARY LAYOUT OVERVIEW
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SL2.3	PRELIMINARY LAYOUT 3
SL2.4	PRELIMINARY LAYOUT 4
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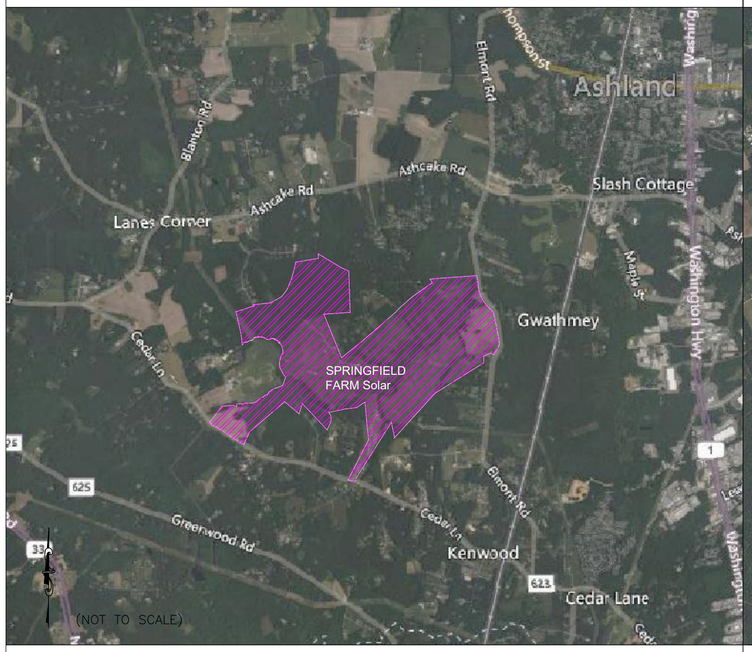
SL2.6	SUBSTATION DETAILS
SL2.7	APPROXIMATE DISTANCES FORM PV ARRAY TO RESIDENCES
SL2.8	SOIL SURVEY MAP

VICINITY MAP



SITE OVERVIEW

SITE INFORMATION

STATE OF VIRGINIA

HANOVER COUNTY

WIND SPEED = 103 MPH ASCE 7-16 CAT I

SNOW LOAD = 20 PSF

ASHRAE WEATHER STATION: HANOVER COUNTY MUNICIPAL, VA

MINIMUM MEAN EXTREME DRY BULB TEMP = -13.8°C

2% AVERAGE HIGH DRY BULB TEMP = 32.3°C

SITE ADDRESS

LATITUDE / LONGITUDE
37.727792 / -77.515257

SUNENERGY1
595 Summer St, 4th Floor
Stamford, CT 06901
(203) 983-7875
www.SunEnergy1.com

DRAWING LOG

NO.	DATE	DESCRIPTION
0	3/26/19	INITIAL LAYOUT
1	12/18/19	REVISED SITE PLAN
2	01/31/20	REVISED SITE PLAN
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4	11/17/20	REVISED SITE PLAN ON SURVEY
5	01/21/21	ADDED SITE INTERNAL PROPERTY LINES
6	04/19/21	UPDATED PER COUNTY COMMENTS
7	04/29/21	ADDED DISTRICT LINE AND DISTANCES TO RESIDENCES
8	05/05/21	ADJUSTED BUFFER AREA, REMOVED ZONING HATCHES
9	3/31/23	UPDATED LAYOUT
10	8/08/23	UPDATED FOR COUNTY COMMENTS

PROJECT NAME: SPRINGFIELD FARM SOLAR, LLC PV POWER PLANT IN ASHLAND, VA

JOB NO.: AC1-191

CHECKED: CJ

DRAWN: CJM

LATEST REVISION: 08 AUG 2023

DRAWING TITLE: COVER SHEET

DRAWING NO.: G1.0

NOTES:

1. FENCE SETBACK IS A MINIMUM OF 50 FT FROM ALL PROPERTY LINES
2. FENCE SETBACK IS A MINIMUM OF 125 FT FROM ALL ADJOINING RESIDENTIAL PROPERTY LINES AND MAJOR ROADWAYS.
3. SEE SL2.5 FOR BUFFER LANDSCAPING DETAILS
4. EXISTING VEGETATION MAY BE LEFT IN PLACE AND USED IN LIEU OF LANDSCAPED SCREENING IN AREAS WHERE IT WILL NOT INTERFERE WITH THE OPERATION OF THE SOLAR FACILITY.
5. SITE LAYOUT AND EQUIPMENT LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE
6. SITE ACCESS PATHWAYS WILL BE A MIN OF 12 FT WIDE.
7. SITE ENTRANCES SHALL BE MARKED WITH GATE NUMBER AND ADDRESS, EACH WILL ALSO BE EQUIPPED WITH KNOX LOCKS.
8. COUNTY PROPOSED MAJOR ROADWAY AS SHOWN IS BASED ON THE HANOVER COUNTY COMPREHENSIVE PLAN, HOWEVER THE LAND OWNER OBJECTS TO THE INCLUSION OF THEIR PROPERTY FOR THESE USES.
9. PROJECT AREA IS ZONED A-1, ALL PROPERTY NOT LABLED RC, R1, AR-2, OR AR6 ARE ZONED A-1.

SL2.2

SL2.3

SL2.4

SL2.1

W. RICHARD GILMAN / JOEL B GILMAN / RITA LYNN GILMAN
APN: 7769-52-1910
7,680,065 SQ.FT.±
176.31 ACRES ±

SPRINGFIELD FARM INC
APN: 7779-02-1568
2,501,399 SQ.FT.±
57.424 ACRES ±

SPRINGFIELD FARM INC
APN: 7779-12-8215
5,106,927 SQ.FT.±
116.194 ACRES ±

SPRINGFIELD FARM INC
APN: 7769-90-8609
5,081,339 SQ.FT.±
116.651 ACRES ±

SPRINGFIELD FARM INC
APN: 7779-10-0505
1,683,476 SQ.FT.±
38.647 ACRES ±

SPRINGFIELD FARM INC
APN: 7769-60-1319
7,748,030 SQ.FT.±
177.870 ACRES ±

SPRINGFIELD FARM INC
APN: 7769-80-3093
5,776,807 SQ.FT.±
132.6172 ACRES ±

SPRINGFIELD FARM INC
APN: 7768-77-8450
1,006,118 SQ.FT.±
23.097 ACRES ±

623 LLC
APN: 7768-38-9853
4,323,737 SQ.FT.±
99.259 ACRES ±

Approximated Route
County Proposed Major Roadway
100 ft Right-of-Way

Total Site Acreage = 938.1

MELTON RD

MELTON PLACE DR

GWATHMEY CHURCH RD

TOM WILLIAMS PL

BEECH RIDGE RD

COLLECTOR SUBSTATION

GIBSON LN

GIBSON LN
VARIABLE WIDTH R-O-W

BEAVERDAM DISTRICT

SOUTH ANNA DISTRICT

ZONE A
ZONE X

LEGEND

- PROPERTY BOUNDARY
- PV ARRAY
- FENCE
- LANDSCAPED SCREENING
- FORESTED BUFFER AREA
- SITE ACCESS POINTS
- SITE ACCESS PATHWAY
- FLOOD ZONE LINE
- COUNTY DISTRICT LINE
- 100 FT RIGHT OF WAY BUFFER
- AREA OF SLOPES ≥ 15%
- WETLANDS
- WATERS OF US
- 100FT RPA BUFFER
- OVERHEAD EASEMENTS

ADJACENT PROPERTY INFORMATION

1. N/F: SKR PROPERTIES LLC
12031 ELMONT RD
ASHLAND, VA 23005-7715
APN :7779-20-4630
2. N/F: LOIS M BARRETT
12025 ELMONT RD
ASHLAND, VA 23005-7715
APN :7779-20-4448
3. N/F: ROBERT C THOMPSON / MONICA A THOMPSON
12011 ELMONT RD
ASHLAND, VA 23005-7715
APN :7779-20-3238
4. N/F: WILLIAM J OVERBY / ROBERTA L OVERBY
11445 PURYEAR LN
ASHLAND, VA 23005-7739
APN :7778-19-9924
5. N/F: BRANDON C LLOYD / RACHEL J LLOYD
11451 LOWING DR
ASHLAND, VA 23005-7717
APN :7778-09-0018
6. N/F: GERALD C AMAN / ANN E AMAN
11450 SHADY FARM LN
ASHLAND, VA 23005-7718
APN :7778-09-9526
7. N/F: EARNEST J EDDLETON / DIANE G EDDLETON
ASHLAND, VA 23005
APN :7778-09-7572
8. N/F: DONALD WAYNE EDDLETON
11453 SHADY FARM LN
ASHLAND, VA 23005-7718
APN :7778-09-6370
9. N/F: DALE G MULLEN
11463 ELMONT RD
ASHLAND, VA 23005-7711
APN :7778-18-1762
10. N/F: STEVEN A RATLIFF / SANDRA G STANLEY
11426 CAVELL LN
ASHLAND, VA 23005-7738
APN :7778-08-0401
11. N/F: KARLIE E ANDERSON
11433 CAVELL LN
ASHLAND, VA 23005-7738
APN :7768-97-8904
12. N/F: GARY L CAMERON
12016 WILLOW FARM DR
ASHLAND, VA 23005-7746
APN :7768-97-0368
13. N/F: MARY E CURLEY
12144 CEDAR LN
ASHLAND, VA 23005-7523
APN :7768-87-1135
14. N/F: LEWIS L HENLEY
12176 CEDAR LN
ASHLAND, VA 23005-7523
APN :7768-77-6342
15. N/F: GINA TREXLER
11432 FARRINGTON FARM LN
ASHLAND, VA 23005-7535
APN :7768-76-5527
16. N/F: GREGORY S CAMPBELL / SUSAN B CAMPBELL
11428 FARRINGTON FARM LN
ASHLAND, VA 23005-7535
APN :7768-76-2056
17. N/F: BERNIER L & M LIVING TRUST & LOUIS F & MARY M BERNIER TRS
11421 FARRINGTON FARM LN
ASHLAND, VA 23005-7535
APN :7768-66-8578
18. N/F: RONALD D DAVIS / XIU MEI ZHANG
11409 FARRINGTON FARM LN
ASHLAND, VA 23005-7535
APN :7768-66-8275
19. N/F: WESLEY GILL / ASHLEY E GILL
11389 FARRINGTON FARM LN
ASHLAND, VA 23005-7534
APN :7768-67-3897
20. N/F: RONALD D DAVIS JR
12232 CEDAR LN
ASHLAND, VA 23005-7526
APN :7768-68-0011
21. N/F: CHRISTOPHER W AUSTIN / LORE DAVIS
12232 CEDAR LN
ASHLAND, VA 23005-7526
APN :7768-58-7480
22. N/F: STELLA W BRADDOCK
12270 CEDAR LN
ASHLAND, VA 23005-7526
APN :7768-57-1730
23. N/F: STELLA W BRADDOCK
12270 CEDAR LN
ASHLAND, VA 23005-7526
APN :7768-47-9803
24. N/F: BERRY FRANKLIN WRIGHT JR
ASHLAND, VA 23005
APN :7768-47-6973
25. N/F: BERRY FRANKLIN WRIGHT JR
ASHLAND, VA 23005
APN :7768-46-4061
26. N/F: BERRY F WRIGHT JR
12320 CEDAR LN
ASHLAND, VA 23005-7527
APN :7768-47-2900
27. N/F: BERRY FRANKLIN WRIGHT
12332 CEDAR LN
GLEN ALLEN, VA 23059
APN :7768-37-8689
28. N/F: CHERYL K MERCER
12354 CEDAR LN
ASHLAND, VA 23005-7527
APN :7768-36-7001
29. N/F: WILLIAM L WEST / CAROL A WEST
12366 CEDAR LN
ASHLAND, VA 23005-7527
APN :7768-37-5801
30. N/F: JOHN G PURYEAR / JACQUELINE C PURYEAR
12462 CEDAR LN
ASHLAND, VA 23005-7549
APN :7768-18-8506
31. N/F: W BRUCE W CAUTHORN / KEVIN S CAUTHORN
12512 CEDAR LN
ASHLAND, VA 23005-7529
APN :7779-30-2184
32. N/F: JEANNETTE M SANDERS / TIMOTHY S SANDERS
MELTON RD
ASHLAND, VA 23005
APN :7779-82-8541
33. N/F: SHARON J COLEMAN / LARRY P COLEMAN
12134 MELTON PLACE DR
ASHLAND, VA 23005-3044
APN :7769-72-1278
34. N/F: SPRINGFIELD FARM INC
ASHLAND, VA 23005
APN :7769-61-7728
35. N/F: MARGARET HAYES
12189 MELTON PLACE DR
ASHLAND, VA 23005-3044
APN :7769-61-8056
36. N/F: HARVEY D ROSS / PATRICIA J ROSS
12171 MELTON PLACE DR
ASHLAND, VA 23005-3044
APN :7769-71-0258
37. N/F: NANCY J PECSOK
12157 MELTON PLACE DR
ASHLAND, VA 23005-3044
APN :7769-71-2498
38. N/F: CHARLES R SIKES / DONNA Z SIKES
12123 MELTON PLACE DR
ASHLAND, VA 23005-3044
APN :7769-72-7058
39. N/F: DUANE CARTER
12110 MELTON PLACE DR
ASHLAND, VA 23005-3044
APN :7769-82-1148
40. N/F: DEBORAH A LAUTERBACH
12170 IRON HORSE LN
ASHLAND, VA 23005-3058
APN :7769-92-0948
41. N/F: RAYMOND F WILLIAMS / JULIE E WILLIAMS
12172 IRON HORSE LN
ASHLAND, VA 23005-3058
APN :7769-93-2271
42. N/F: WILLIAM M ARCHER / MARGARET S ARCHER
12011 FOX MILL RUN LN
ASHLAND, VA 23005-3054
APN :7769-93-5298
43. N/F: RUNE K HARALDSSON / BENT A HARALDSSON
12010 FOX MILL RUN LN
ASHLAND, VA 23005-3052
APN :7779-03-0641
44. N/F: CPT ASHLAND LLC
12287 ELMONT RD
ASHLAND, VA 23005-7603
APN :7779-04-8707
45. N/F: TUCKERPLING LLC
350 POND VIEW LANE
MANAKIN-SABOT, VA 23103
APN :7769-21-4146
46. N/F: JONATHAN L CAUTHORNE
6650 CHESTNUT CHURCH RD
MECHANICSVILLE, VA 23116
APN :7769-21-3951
47. N/F: RHYNE RESIDENTIAL DEVELOPMENT LLC
12507 TRAMMEL COURT
ASHLAND, VA 23005
APN :7769-43-0750
48. N/F: PATRICIA ANN EWALD
12258 DEER CROSSING TRAIL
ASHLAND, VA 23005
APN :7769-54-4933
49. N/F: TUCKERPLING LLC
350 POND VIEW LANE
MANAKIN-SABOT, VA 23103
APN :7769-21-4146
50. N/F: RICHARD WADE BARNHILL / SYLVIA S R/S
12225 ASHCAKE RD
ASHLAND, VA 23005
APN :7778-59-8317
51. N/F: TRACY S BROWN / THOMAS E STANLEY III
12141 ASHCAKE ROAD
ASHLAND, VA 23005
APN :7778-68-8152
52. N/F: JENNIFER L MEDEI / STEVE A MEDEI
12157 FOX MILL RUN LN
ASHLAND, VA 23005
APN :7779-74-0329
53. N/F: JOSEPH B WILL / ANGELA M WILL
12149 FOX MILL RUN LN
ASHLAND, VA 23005
APN :7779-74-2352
54. N/F: RAYMOND MASOKA / MICHELLE E R/S
12181 MELTON RD
ASHLAND, VA 23005
APN :7779-03-0641
55. N/F: WILLIAM O MCELROY / CATHY J BACH R/S
12175 MELTON RD
ASHLAND, VA 23005
APN :7779-73-3515
56. N/F: RONALD S TAYLOR / JENNIFER DIGIACOMO R/S
12153 MELTON RD
ASHLAND, VA 23005
APN :7779-73-3146

0 200' 400' 800'
SCALE: 1" = 400'

SUNENERGY1
595 Summer St, 4th Floor
Stamford, CT 06901
(203) 983-7875
www.SunEnergy1.com

DRAWING LOG

NO.	DATE	DESCRIPTION
9	3/31/23	UPDATED LAYOUT
10	6/09/23	UPDATED FOR COUNTY COMMENTS
0	3/26/19	INITIAL LAYOUT
1	12/18/19	REVISED SITE PLAN
2	01/31/20	REVISED SITE PLAN
3	09/21/20	REVISED SITE PLAN
4	11/17/20	REVISED SITE PLAN ON SURVEY
5	01/21/21	ADDED SITE INTERNAL PROPERTY LINES
6	04/19/21	UPDATED PER COUNTY COMMENTS
7	04/29/21	ADDED DISTRICT LINE AND DISTANCES TO RESIDENCES
8	05/05/21	ADJUSTED BUFFER AREA, REMOVED ZONING HATCHES

PROJECT NAME: SPRINGFIELD FARM SOLAR, LLC
PV POWER PLANT
IN ASHLAND, VA

JOB NO.: AC1-191
CHECKED: CJ
DRAWN: CJM
LATEST REVISION: 08 AUG 2023

DRAWING TITLE
PRELIMINARY LAYOUT OVERVIEW

DRAWING NO.
SL2.0

CONTINUED ON SL2.2

CONTINUED ON SL2.4

COLLECTOR SUBSTATION

CEDAR LN
100ft R-O-W

ROCKY RIDGE RD

BEAVERDAM DISTRICT

SOUTH ANNA DISTRICT

ZONE A

ZONE X

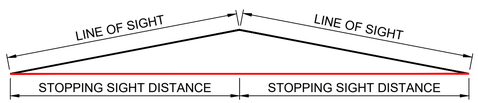
0 100' 200' 400'

SCALE: 1" = 200'

LEGEND

- PROPERTY BOUNDARY
- PV ARRAY
- FENCE
- LANDSCAPED SCREENING
- FORESTED BUFFER AREA
- SITE ACCESS POINTS
- SITE ACCESS PATHWAY
- FLOOD ZONE LINE
- COUNTY DISTRICT LINE
- 100 FT RIGHT OF WAY BUFFER
- AREA OF SLOPES ≥ 15%
- WETLANDS
- WATERS OF US
- 100FT RPA BUFFER
- OVERHEAD EASEMENTS

SIGHT TRIANGLE LEGEND



SEE SL2.5 FOR STOPPING DISTANCE TABLE

SUNENERGY1
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NO.	DATE	DESCRIPTION
9	3/31/23	UPDATED LAYOUT
10	8/08/23	UPDATED FOR COUNTY COMMENTS

DRAWING LOG

NO.	DATE	DESCRIPTION
0	3/28/19	INITIAL LAYOUT
1	12/18/19	REVISED SITE PLAN
2	01/31/20	REVISED SITE PLAN
3	09/21/20	REVISED SITE PLAN
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PV POWER PLANT
IN ASHLAND, VA

JOB NO.: AC1-191

CHECKED: CJ

DRAWN: CJM

LATEST REVISION: 08 AUG 2023

DRAWING TITLE: PRELIMINARY LAYOUT 1

DRAWING NO.: SL2.1

LEGEND

- PROPERTY BOUNDARY
- PV ARRAY
- FENCE
- LANDSCAPED SCREENING
- FORESTED BUFFER AREA
- SITE ACCESS POINTS
- SITE ACCESS PATHWAY
- FLOOD ZONE LINE
- COUNTY DISTRICT LINE
- 100 FT RIGHT OF WAY BUFFER
- AREA OF SLOPES ≥ 15%
- WETLANDS
- WATERS OF US
- 100FT RPA BUFFER
- OVERHEAD EASEMENTS

0 100' 200' 400'
SCALE: 1" = 200'

Trammel Court

ZONE A
ZONE X

BEAVERDAM DISTRICT
SOUTH ANNA DISTRICT

Approximated Route
County Proposed Major Roadway
100 ft Right-of-Way

MELTON PLACE DR.

CONTINUED ON SL2.1

CONTINUED ON SL2.3

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DRAWING LOG

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PROJECT NAME: SPRINGFIELD FARM SOLAR, LLC
PV POWER PLANT
IN ASHLAND, VA

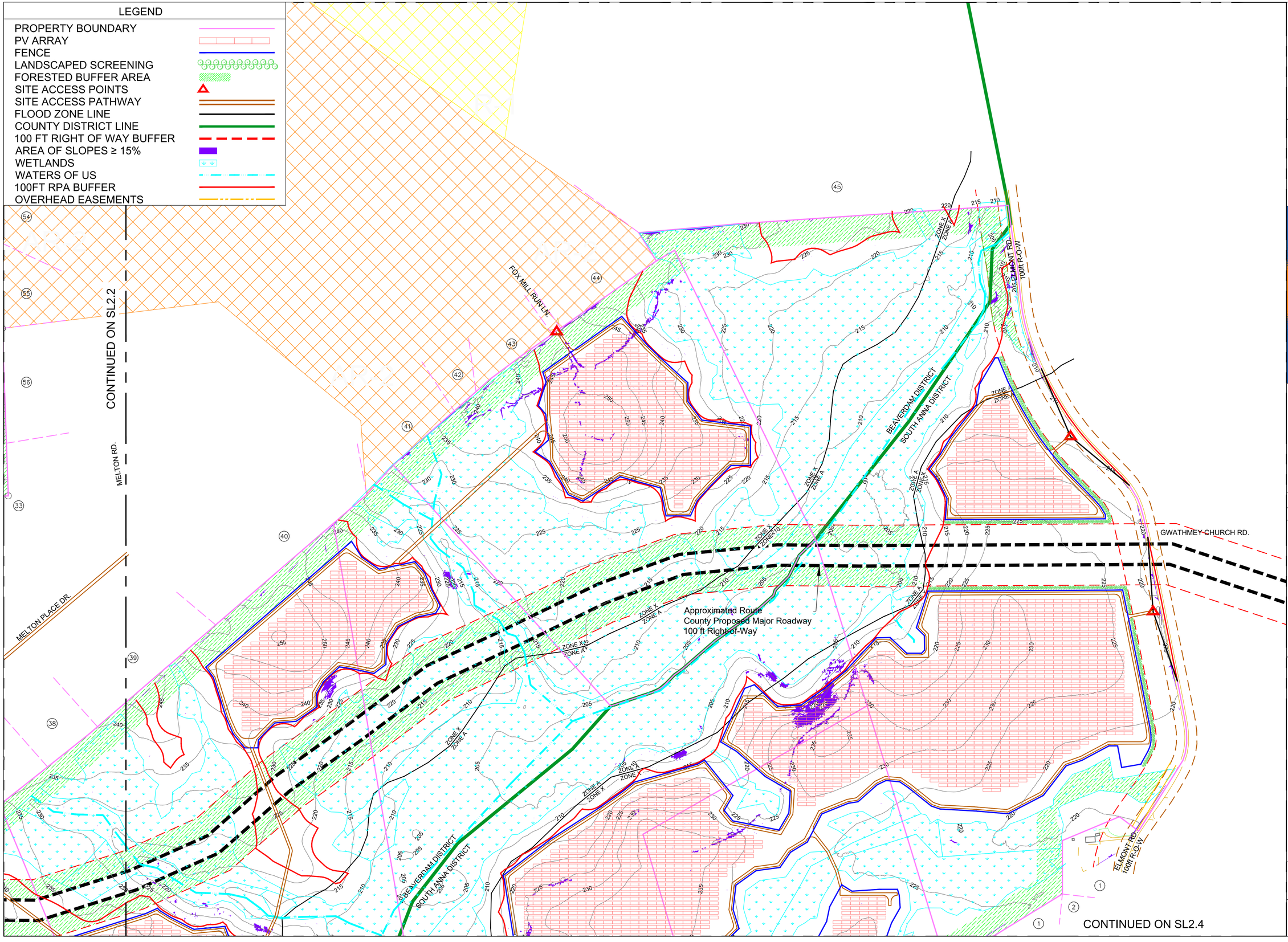
JOB NO.: AC1-191
CHECKED: CJ
DRAWN: CJM
LATEST REVISION: 08 AUG 2023

DRAWING TITLE: PRELIMINARY LAYOUT 2

DRAWING NO.: SL2.2

LEGEND

- PROPERTY BOUNDARY
- PV ARRAY
- FENCE
- LANDSCAPED SCREENING
- FORESTED BUFFER AREA
- SITE ACCESS POINTS
- SITE ACCESS PATHWAY
- FLOOD ZONE LINE
- COUNTY DISTRICT LINE
- 100 FT RIGHT OF WAY BUFFER
- AREA OF SLOPES ≥ 15%
- WETLANDS
- WATERS OF US
- 100FT RPA BUFFER
- OVERHEAD EASEMENTS



0 100' 200' 400'

SCALE: 1" = 200'

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PROJECT NAME: SPRINGFIELD FARM SOLAR, LLC
PV POWER PLANT
IN ASHLAND, VA

JOB NO.: AC1-191

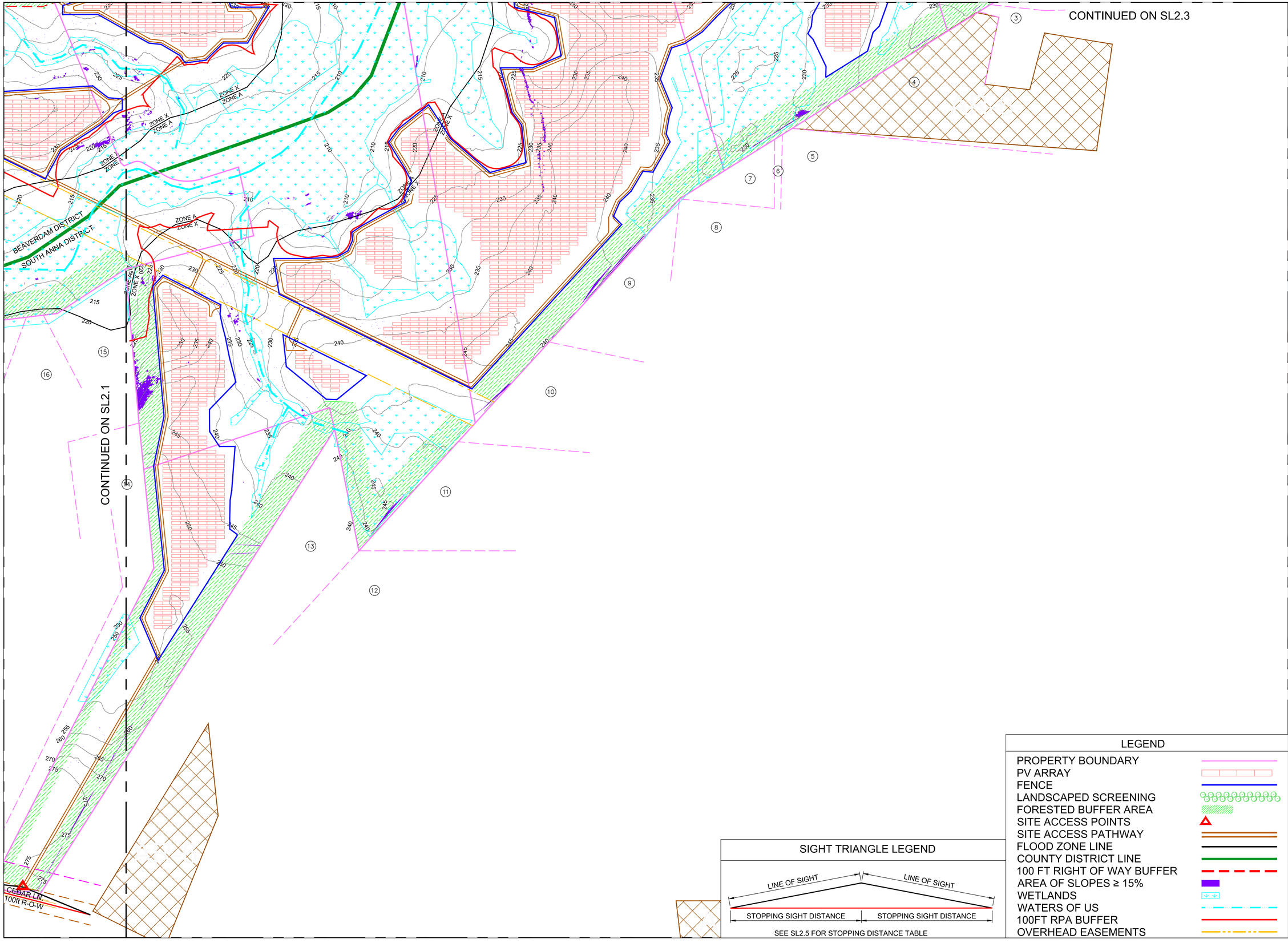
CHECKED: CJ

DRAWN: CJM

LATEST REVISION: 08 AUG 2023

DRAWING TITLE: PRELIMINARY LAYOUT 3

DRAWING NO.: SL2.3



0 100' 200' 400'

SCALE: 1" = 200'

SIGHT TRIANGLE LEGEND

SEE SL2.5 FOR STOPPING DISTANCE TABLE

LEGEND

- PROPERTY BOUNDARY
- PV ARRAY
- FENCE
- LANDSCAPED SCREENING
- FORESTED BUFFER AREA
- SITE ACCESS POINTS
- SITE ACCESS PATHWAY
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NO	DATE	DESCRIPTION
9	3/31/23	UPDATED LAYOUT
10	8/08/23	UPDATED FOR COUNTY COMMENTS

DRAWING LOG

NO	DATE	DESCRIPTION
0	3/28/19	INITIAL LAYOUT
1	12/18/19	REVISED SITE PLAN
2	3/13/120	REVISED SITE PLAN
3	09/21/20	REVISED SITE PLAN
4	11/17/20	REVISED SITE PLAN ON SURVEY
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PROJECT NAME: SPRINGFIELD FARM SOLAR, LLC
PV POWER PLANT
IN ASHLAND, VA

JOB NO.: AC1-191

CHECKED: CJ

DRAWN: CJM

LATEST REVISION: 08 AUG 2023

DRAWING TITLE: PRELIMINARY LAYOUT 4

DRAWING NO.: SL2.4

Ilex Nellie Stevens
(NELLIE Stevens Holly)

Juniperus Virginiana
(Eastern Red Cedar)

Thuja Occidentalis
(Emerald Cedar)

Magnolia Grandiflora
(Little Gem Magnolia)

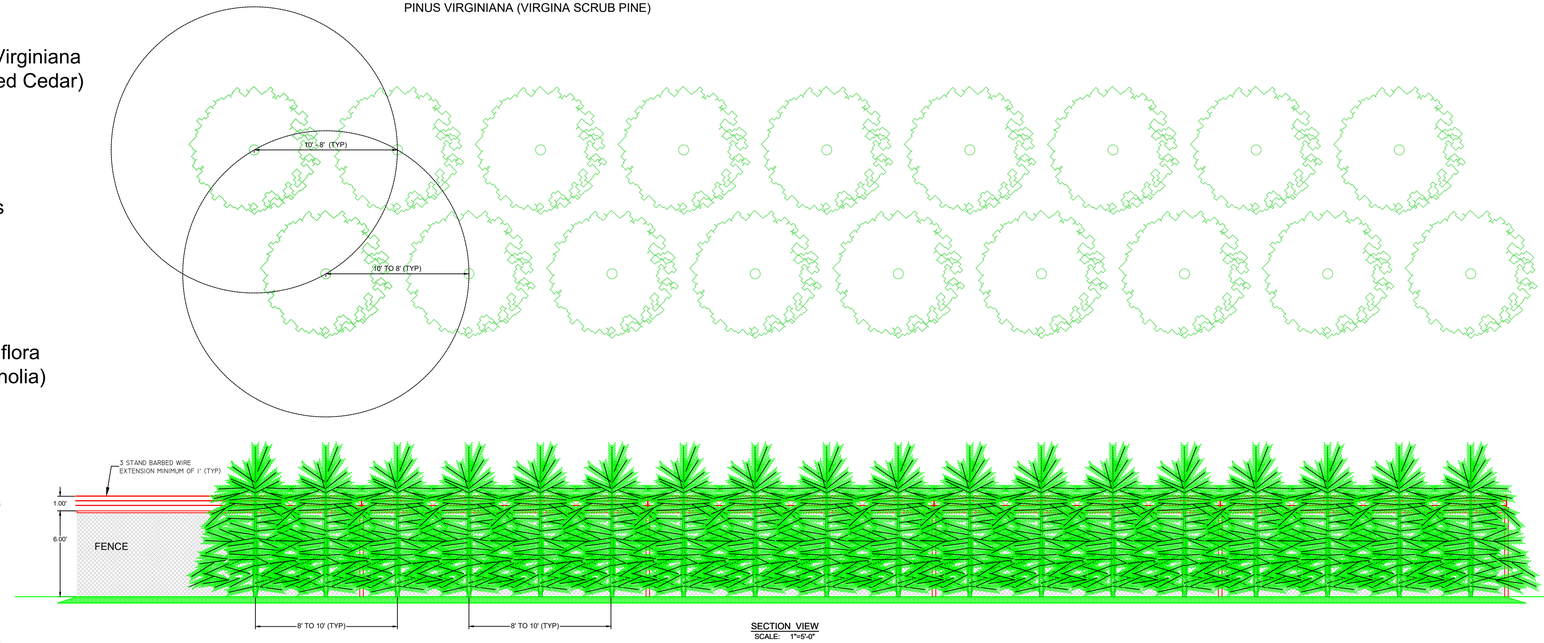
Ilex Opaca
(American Holly)

Pinus Virginiana
(Virginia Scrub Pine)

ACCEPTABLE BUFFER TREES

ILLEX NELLIE STEVENS (NELLIE STEVENS HOLLY)
JUNIPERUS VIRGINIANA (EASTERN RED CEDAR)
THUJA OCCIDENTALIS (EMERAL CEDAR)
MAGNOLIA GRANDIFLORA (LITTLE GEM MAGNOLIA)
ILEX OPACA (AMERICAN HOLLY)
PINUS VIRGINIANA (VIRGINA SCRUB PINE)

A MINIMUM OFF FIVE SPECIES SHALL PLANTED. TREES SHALL BE INSTALLED IN GROUPS OF THREE TO SEVEN. TREES WILL BE STAGGERED ON CENTER AT 8FT WIDE FOR TREES WITH A CULTIVAR AND 10FT WIDE FOR TREES WITHOUT CULTIVAR



SECTION VIEW
SCALE: 1"=5'-0"

NOTES:

1. FENCE SHALL BE CHAIN LINK INSTALLED AT A MINIMUM OF 6 FEET IN HEIGHT, WITH A MINIMUM OF 1 FOOT TOPER UTILIZING AT LEAST 3 STRANDS OF BARBED WIRE. PER NEC 110.31
2. EVERGREENS PLANTED AT A MINIMUM HEIGHT OF 8 FEET.
3. FENCE SETBACK A MINIMUM OF 50 FEET AND 125 FEET ALONG ROADWAYS AND RESIDENTIAL PROPERTY LINES.

LANDSCAPED SCREENING DETAIL

Table 3-1. Stopping Sight Distance on Level Roadways

Metric					U.S. Customary				
Design Speed (km/h)	Brake Reaction Distance (m)	Braking Distance on Level (m)	Stopping Sight Distance		Design Speed (mph)	Brake Reaction Distance (ft)	Braking Distance on Level (ft)	Stopping Sight Distance	
			Calculat-ed (m)	Design (m)				Calculat-ed (ft)	Design (ft)
20	13.9	4.6	18.5	20	15	55.1	21.6	76.7	80
30	20.9	10.3	31.2	35	20	73.5	38.4	111.9	115
40	27.8	18.4	46.2	50	25	91.9	60.0	151.9	155
50	34.8	28.7	63.5	65	30	110.3	86.4	196.7	200
60	41.7	41.3	83.0	85	35	128.6	117.6	246.2	250
70	48.7	56.2	104.9	105	40	147.0	153.6	300.6	305
80	55.6	73.4	129.0	130	45	165.4	194.4	359.8	360
90	62.6	92.9	155.5	160	50	183.8	240.0	423.8	425
100	69.5	114.7	184.2	185	55	202.1	290.3	492.4	495
110	76.5	138.8	215.3	220	60	220.5	345.5	566.0	570
120	83.4	165.2	248.6	250	65	238.9	405.5	644.4	645
130	90.4	193.8	284.2	285	70	257.3	470.3	727.6	730
					75	275.6	539.9	815.5	820
					80	294.0	614.3	908.3	910

Note: Brake reaction distance predicated on a time of 2.5 s; deceleration rate of 3.4 m/s² [11.2 ft/s²] used to determine calculated sight distance.

Source: AASHTO "Green Book" Table 3-1

For Cedar Lane and Elmont Road Entrances Stopping Sight Distance for Posted Speed Limit of 45mph is Shown.

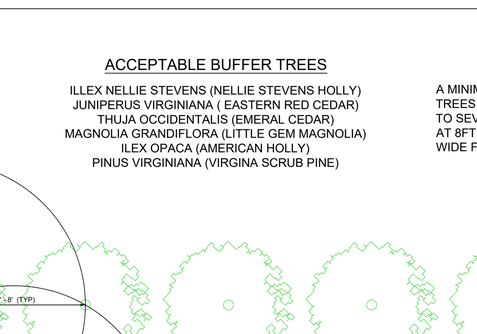
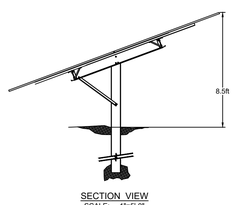


FIGURE 4-1 PRIVATE ENTRANCE AND LOW VOLUME COMMERCIAL ENTRANCE DETAIL

* Rev. 7/14

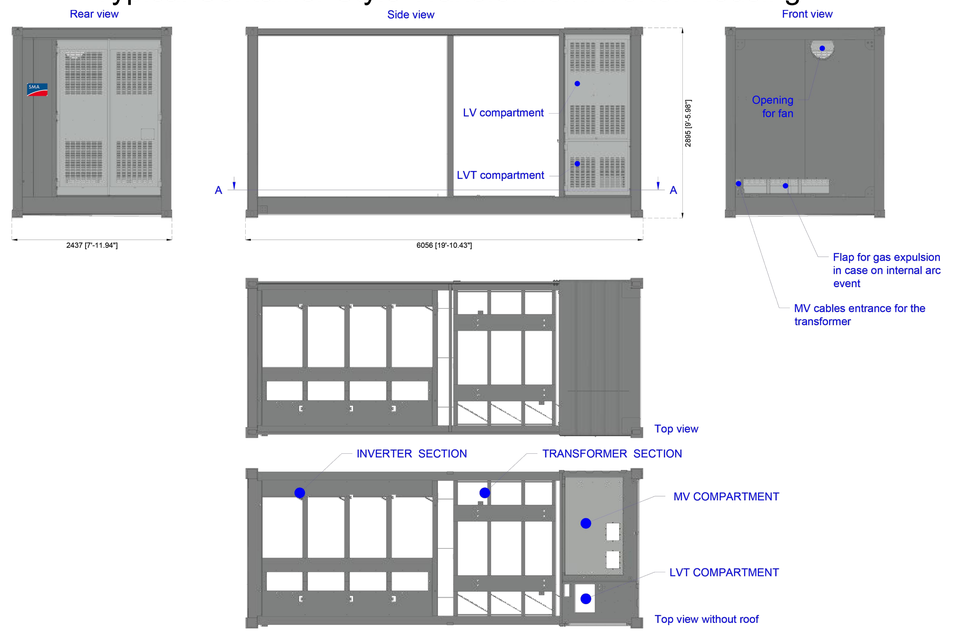


SECTION VIEW
SCALE: 1"=5'-0"

TYPICAL PV RACK ELEVATION

PRINT DATE : 11/07/2019

Typical Container Style Transformer/Inverter Housing



NO.	DATE	DESCRIPTION	ORIG. / DEF.	CHECKED	APPROVED
4	09/07/2019	Final version	V. Malorgina	--	M. Melodia
3	13/06/2019	Text corrections	G. Drago	--	M. Melodia
2	28/05/2019	General changes	V. Malorgina	--	M. Melodia
1	24/04/2019	Project renamed	G. Drago	V. Malorgina	M. Melodia
0	18/04/2019	First release	G. Drago	V. Malorgina	M. Melodia

MATERIALE / MATERIAL : --
TRATTAMENTO SUPERF. / SURFACE TREATMENT : --
TRATTAMENTO TERMICO / HEAT TREATMENT : --
DISEGNO DI RIFERIMENTO / DRAWING REFERENCE: GP001143-00 CHIAVETTA s.r.l.

PROGETTO / PROJECT: MVPS20' SKIDTAINER
DESCRIZIONE / DESCRIPTION: Commercial drawings without devices installed / Disegni commerciali senza apparecchiature installate
SOSTEGNO No. / PART No.: MVPS-SK002
SCALA / SCALE: 1 : 40
FOGLIO / SHEET: 1 of 1

Page size: A3 (420 x 297)

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DRAWING LOG

NO.	DATE	DESCRIPTION
0	3/26/19	INITIAL LAYOUT
1	12/18/19	REVISED SITE PLAN
2	01/31/20	REVISED SITE PLAN
3	09/21/20	REVISED SITE PLAN
4	11/17/20	REVISED SITE PLAN ON SURVEY
5	01/21/21	ADDED SITE INTERNAL PROPERTY LINES
6	04/19/21	UPDATED PER COUNTY COMMENTS
7	04/29/21	ADDED DISTRICT LINE AND DISTANCES TO RESIDENCES
8	05/05/21	ADJUSTED BUFFER AREA, REMOVED ZONING MATCHES

NO.	DATE	DESCRIPTION
9	3/31/23	UPDATED LAYOUT
10	8/08/23	UPDATED FOR COUNTY COMMENTS

PROJECT NAME: SPRINGFIELD FARM SOLAR, LLC
PV POWER PLANT
IN ASHLAND, VA

JOB NO.: AC1-191

CHECKED: CJ

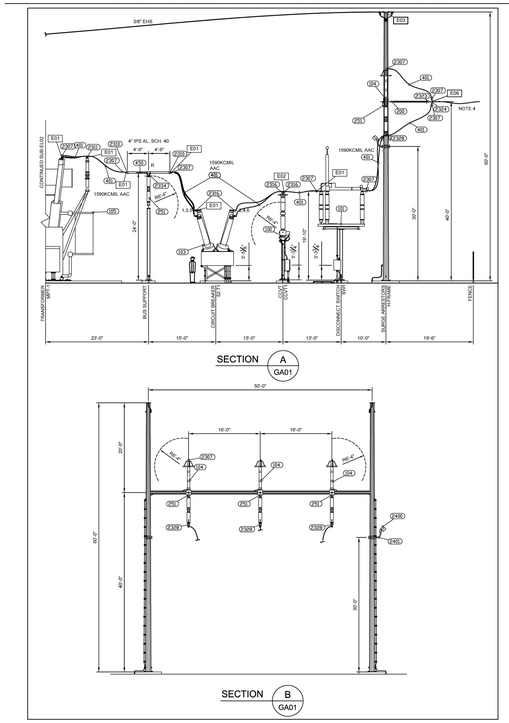
DRAWN: CJM

LATEST REVISION: 08 AUG 2023

DRAWING TITLE: GENERAL DETAILS

DRAWING NO.: SL2.5

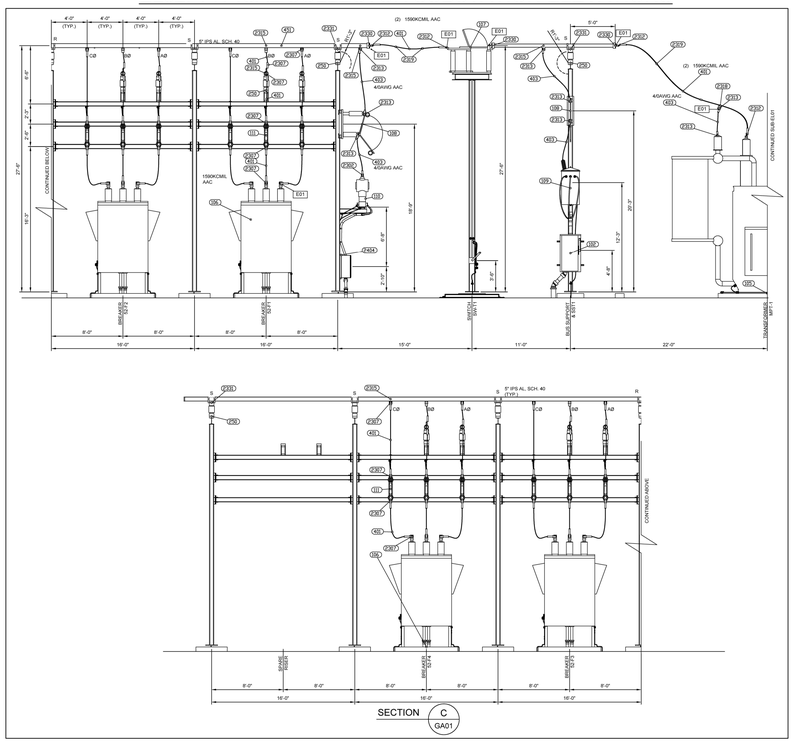
EL01: TYPICAL COLLECTOR SUBSTATION ELEVATIONS



SECTION A GA01

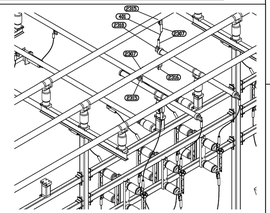
SECTION B GA01

EL02: TYPICAL COLLECTOR SUBSTATION ELEVATIONS

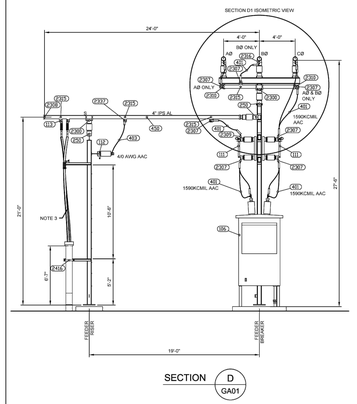


SECTION C GA01

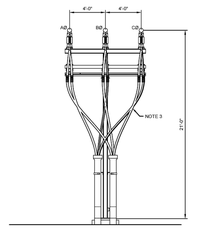
EL03: TYPICAL COLLECTOR SUBSTATION ELEVATIONS



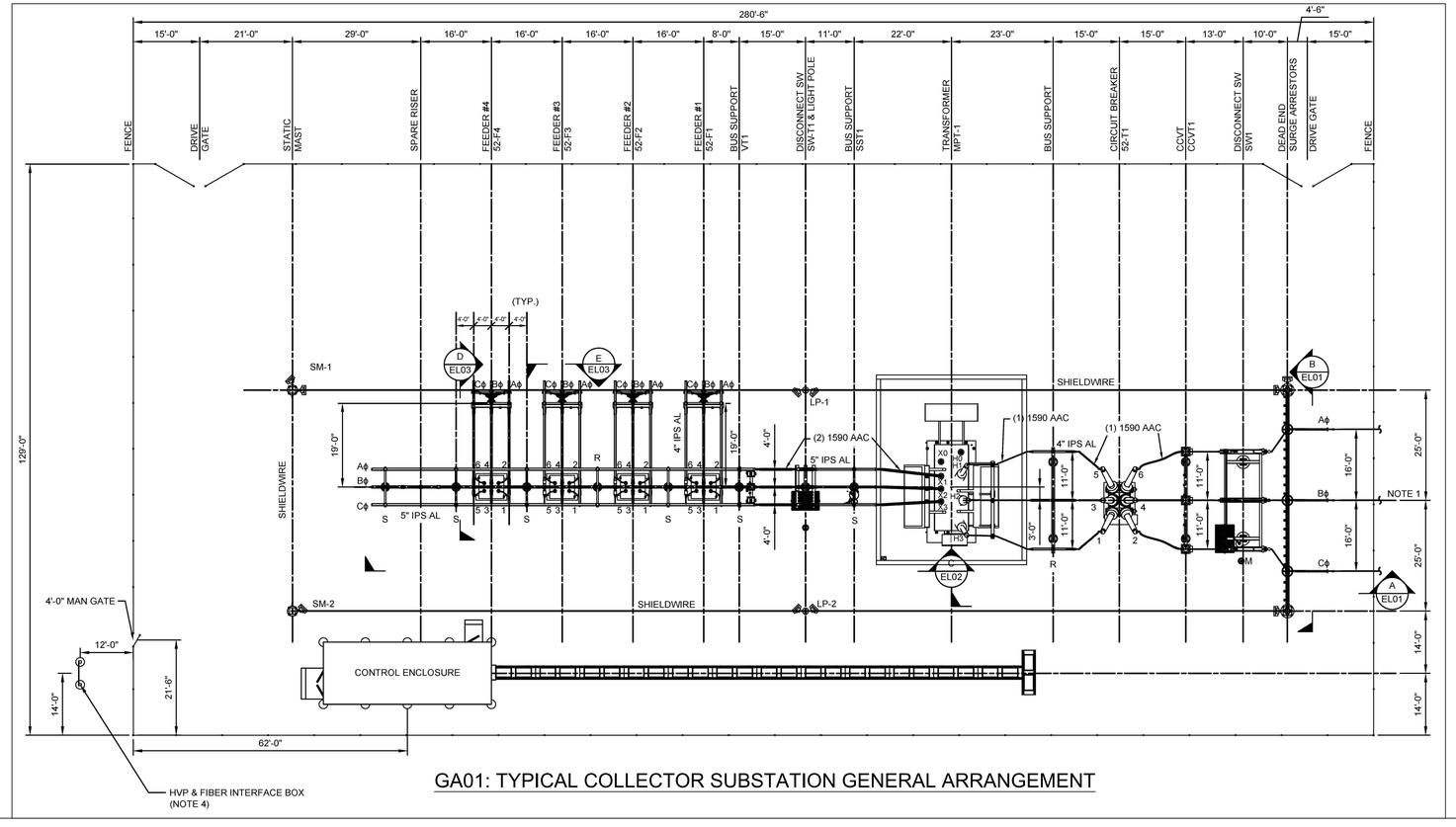
SECTION D1 EL03



SECTION D GA01



SECTION E GA01



GA01: TYPICAL COLLECTOR SUBSTATION GENERAL ARRANGEMENT

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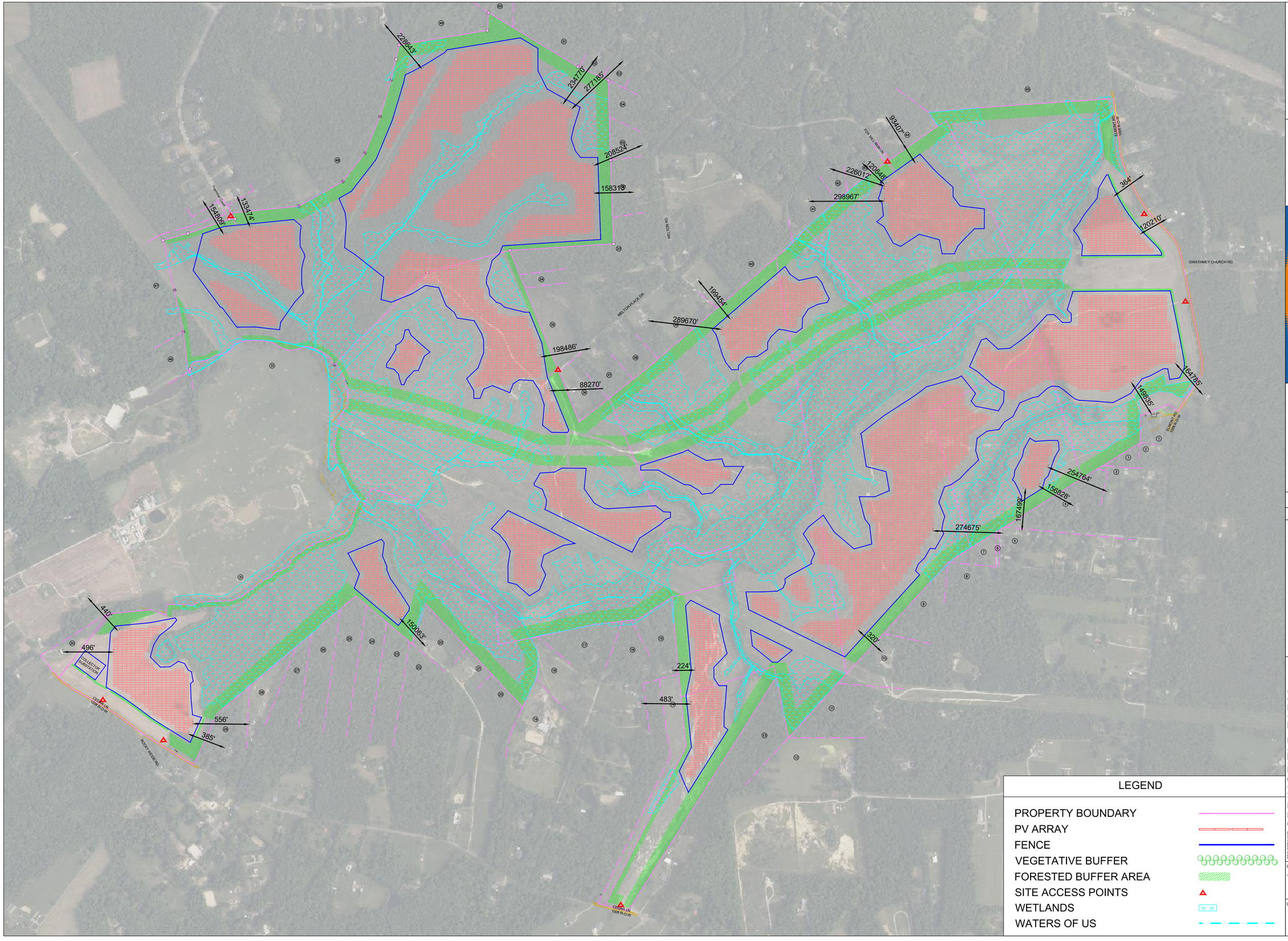
CHECKED: CJ

LATEST REVISION: 08 AUG 2023
DRAWN: CJM

DRAWING TITLE: SUBSTATION DETAILS

DRAWING NO.: SL 2.6



0 200' 400' 800'

SCALE: 1" = 400'

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PV POWER PLANT
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CHECKED: CJ

DRAWN: CJM

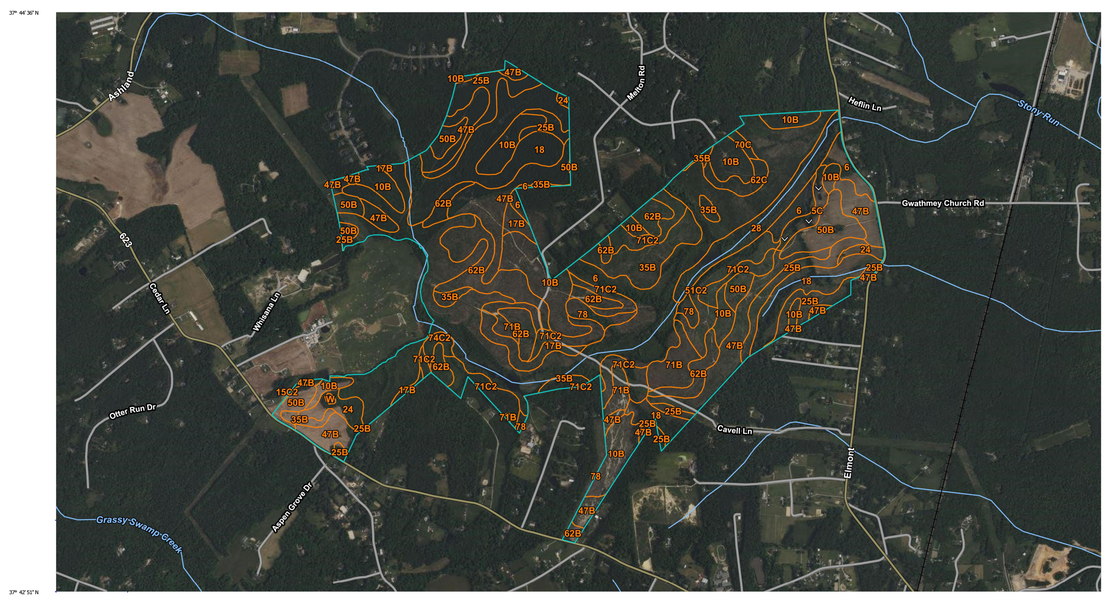
LATEST REVISION: 08 AUG 2023

DRAWING TITLE: APPROXIMATE DISTANCES FROM PV ARRAY TO RESIDENCES

DRAWING NO.: SL2.7

LEGEND

- PROPERTY BOUNDARY
- PV ARRAY
- FENCE
- VEGETATIVE BUFFER
- FORESTED BUFFER AREA
- SITE ACCESS POINTS
- WETLANDS
- WATERS OF US



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
5C	Appling-Ashlar complex, 5 to 15 percent slopes	8.3	0.9%
6	Myatt loam, 0 to 2 percent slopes, rarely flooded	241.2	25.7%
10B	Bourne fine sandy loam, 2 to 7 percent slopes	96.4	10.3%
15C2	Cecil-Vance gravelly sandy loams, 7 to 15 percent slopes, eroded	0.1	0.0%
17B	Colfax fine sandy loam, 2 to 7 percent slopes	17.5	1.9%
18	Coxville loam	91.4	9.7%
24	Dunbar fine sandy loam	13.4	1.4%
25B	Duplin fine sandy loam, 2 to 7 percent slopes	51.9	5.5%
28	Fluvaquents, nearly level	30.0	3.2%
35B	Helena-Colfax complex, 2 to 7 percent slopes	39.5	4.2%
47B	Norfolk fine sandy loam, 2 to 7 percent slopes	106.3	11.3%
50B	Orangeburg-Faceville fine sandy loams, 2 to 7 percent slopes	40.5	4.3%
51C2	Pacolet fine sandy loam, 7 to 15 percent slopes, eroded	19.6	2.1%
62B	Spotsylvania-Bourne fine sandy loams, 2 to 7 percent slopes	70.3	7.5%
62C	Spotsylvania-Bourne fine sandy loams, 7 to 15 percent slopes	8.1	0.9%
70C	Udults-Ochrepts complex, sloping	2.2	0.2%
71B	Vance fine sandy loam, 2 to 7 percent slopes	27.8	3.0%
71C2	Vance fine sandy loam, 7 to 15 percent slopes, eroded	57.5	6.1%
74C2	Wedowee fine sandy loam, 7 to 15 percent slopes, eroded	4.2	0.4%
78	Worsham fine sandy loam	10.8	1.2%
W	Water	0.6	0.1%
Totals for Area of Interest		**937.6**	**100.0%**

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

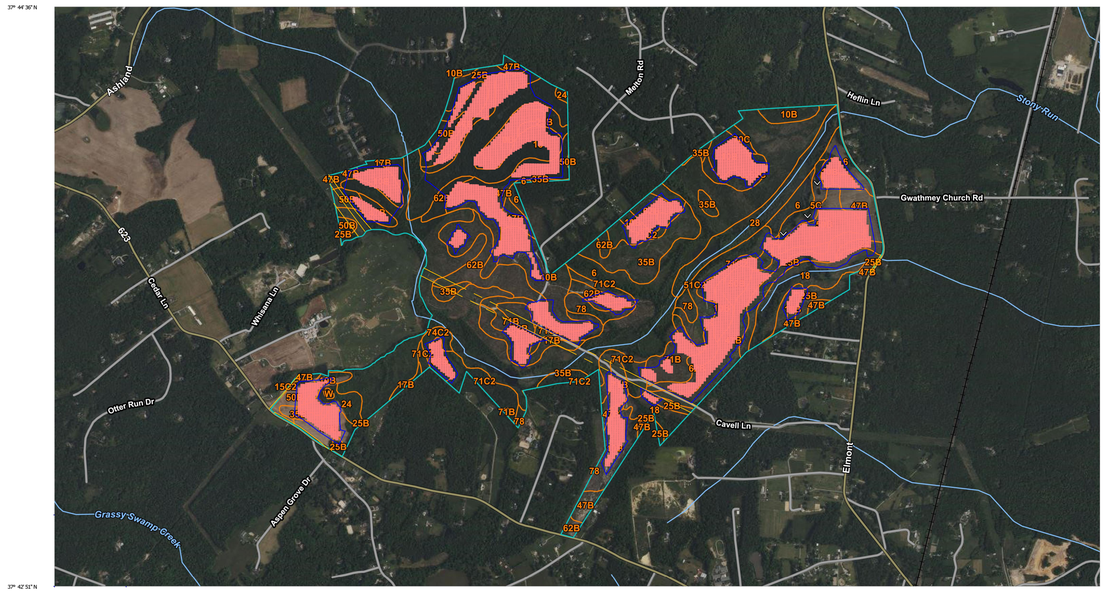
Soil Survey Area: Hanover County, Virginia
Survey Area Data: Version 17, Aug 29, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 19, 2022—Jul 12, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Soil Map Racking Overlay



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DRAWING TITLE
Soil Survey Map

DRAWING NO.
SL 2.8