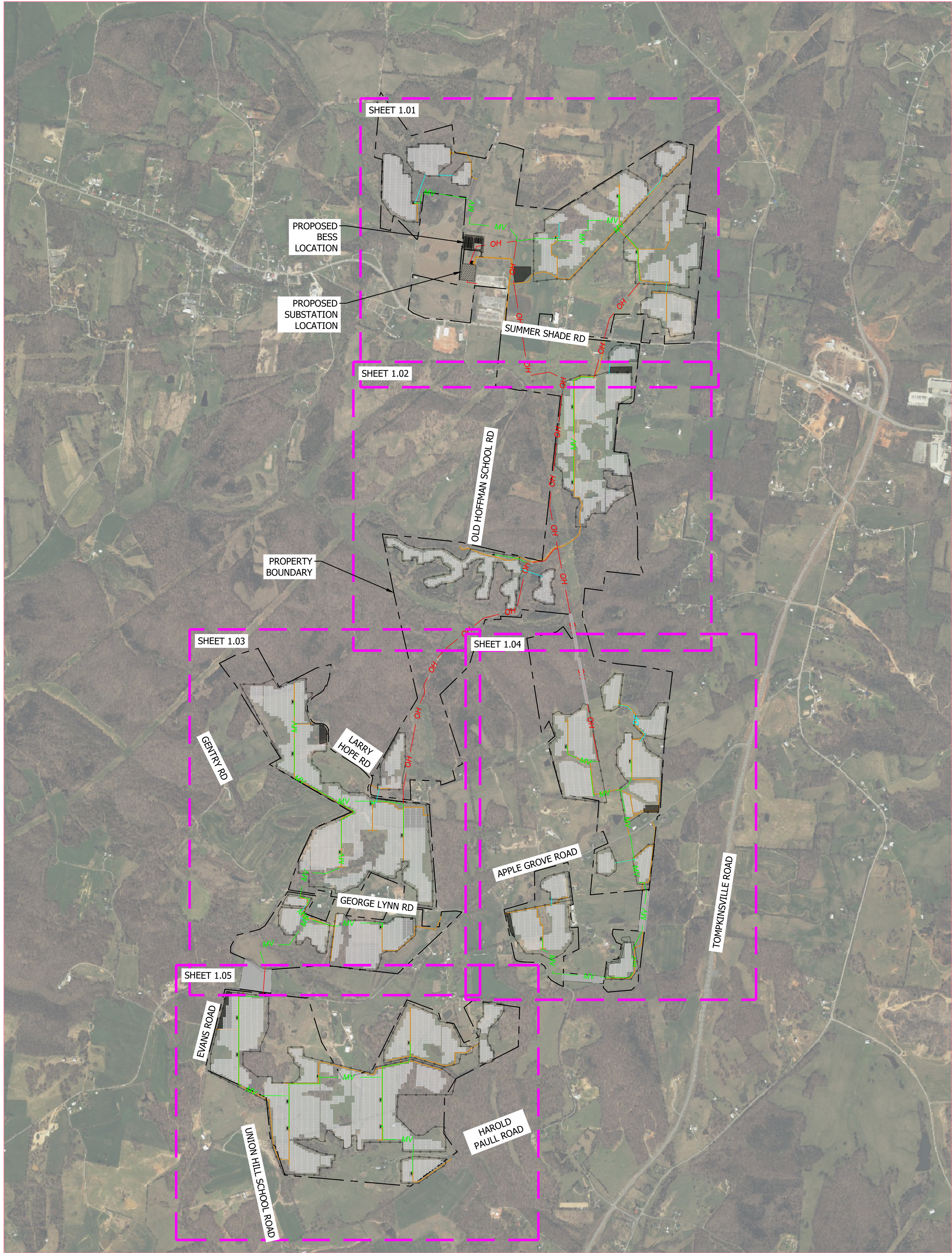


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2025/04/28 8:52 AM By: Andrews, Robert

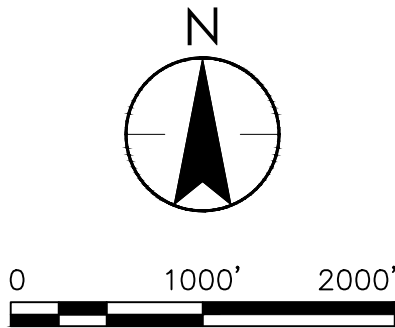
ORIGINAL SHEET - ARCH D



System Size and Equipment Summary Assumptions	
PV PROJECT	
Developer	Candela Renewables
Project	Summer Shade Solar
Location	Metcalfe County, Kentucky
Coordinates	36.868, -85.688
Total Site Area (Acres)	1535
Total PV Plant Area (Acres)	737
PV PLANT CAPACITY	
AC Capacity @ POI	106.00
AC Capacity (Nameplate)	110.00
DC Capacity (Nameplate)	139.91
DC/AC Ratio @ POI	-
DC/AC Ratio (Nameplate)	1.27
INTERCONNECTION	
Point of Interconnection	Existing EKPC Substation
POI Coordinates	36.88, -85.68
Interconnection Voltage	161kV
Gen-Tie Length	300' FT
MODULE	
Type	JA Solar
Make/Model	JAM72D40
Nominal Power	520Wp
Modules per String	27
Total Modules	269,055
POWER CONVERTER SYSTEM (PCS)	
Type	Central @1500Vdc
Make/Model	Sungrow/SD4400UD-MV-US
Nominal Power	4.4
Total Inverters	25
FIXED TILT	
Type	Fixed Tilt, 2P Landscape
Modules per Row (2 Strings)	54
Modules per Row (1 Strings)	27
Pitch	30.5' FT
Ground Coverage Ratio (GCR)	53%
Total Rows (2 Strings)	4,331
Total Rows (1 Strings)	1,303
TYPICAL ARRAY CONFIGURATION	
Number of Strings per Array (Average)	399
Number of Modules per Array (Average)	10,762
BESS INFORMATION	
Number of Inverters	24
Nominal Power	4.4
Number of BESS Units	96
Design Duration (Hr)	4
MWh	424
MWac	106

LEGEND

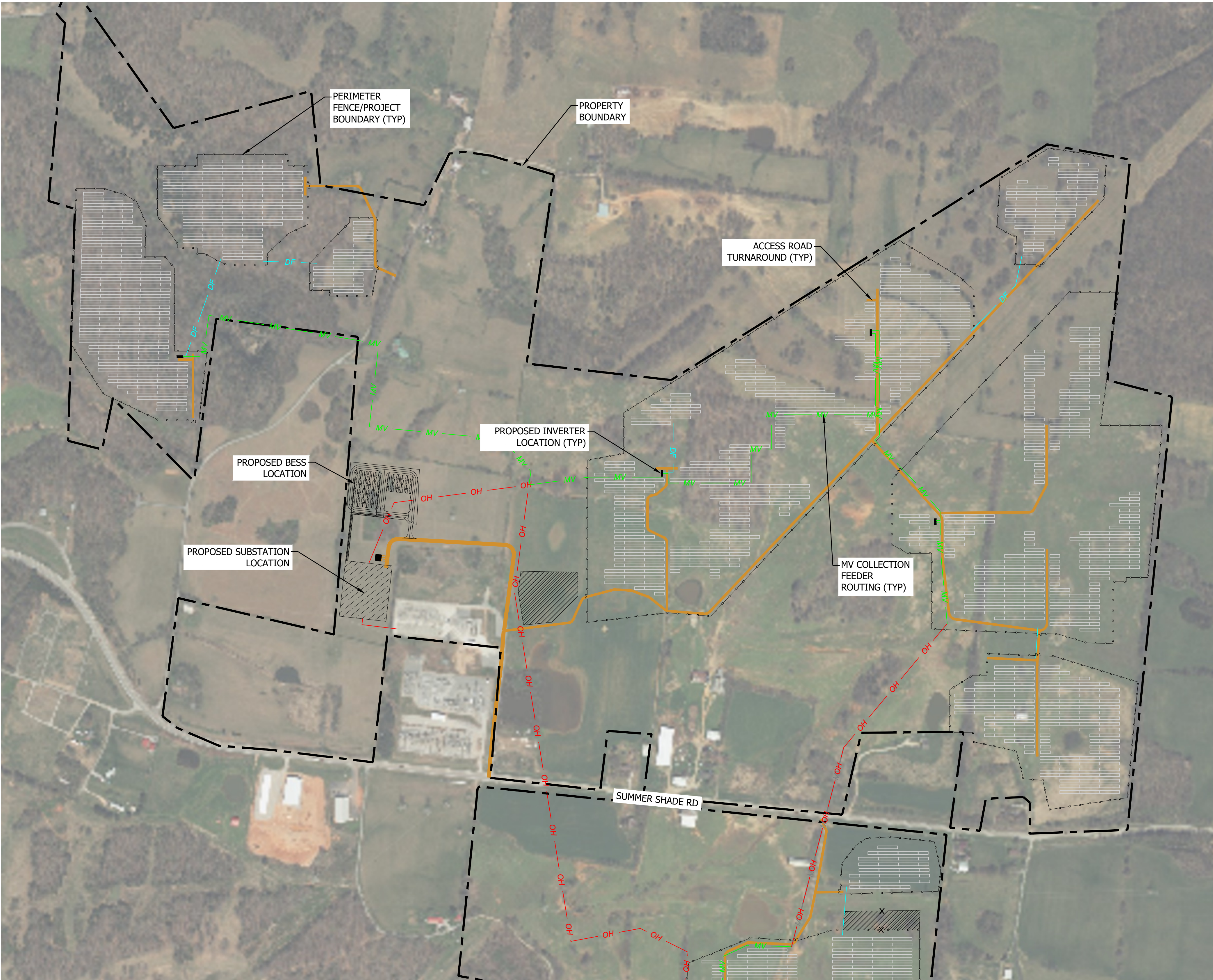
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- PERIMETER FENCE/BUILDABLE AREA
- OVERHEAD ELECTRIC
- ACCESS ROAD
- FIXED TILT TRACKER
- INVERTERS
- MV CABLES
- DC CABLES
- DIRECTIONAL BORE
- SUBSTATION
- LAYDOWN AREA



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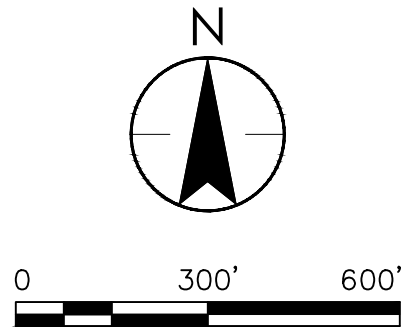
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ORIGINAL SHEET - ARCH D



LEGEND

- PROPERTY BOUNDARY LINE
- PERIMETER FENCE/BUILDABLE AREA
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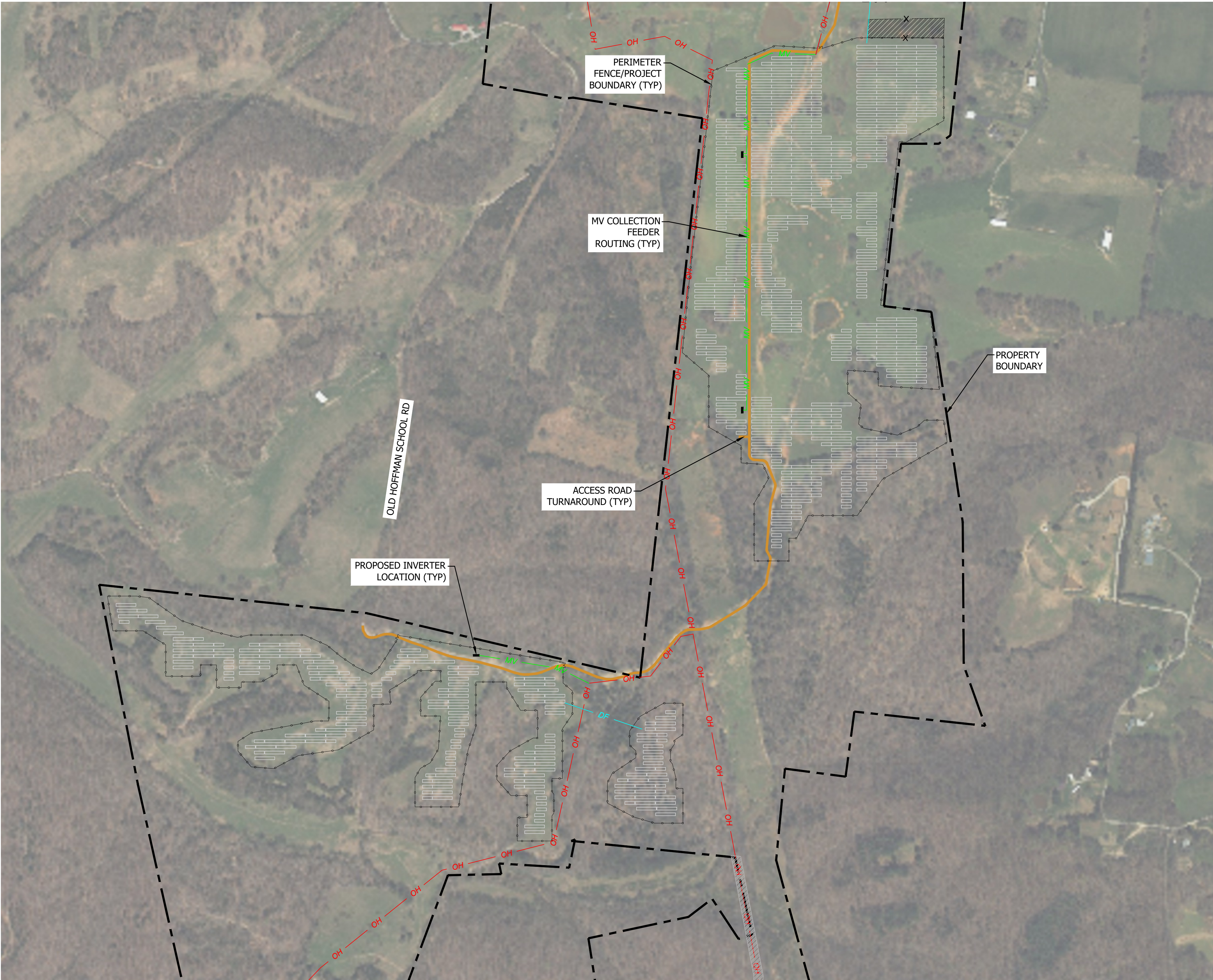


ISSUED:		04/28/2025
PRELIMINARY PV LAYOUT		
NO.	REVISION	DATE
1	ISSUE FOR REVIEW	04/28/25

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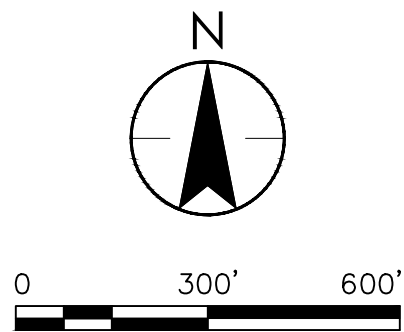
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ORIGINAL SHEET - ARCH D



LEGEND

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SUMMER SHADE SOLAR PROJECT

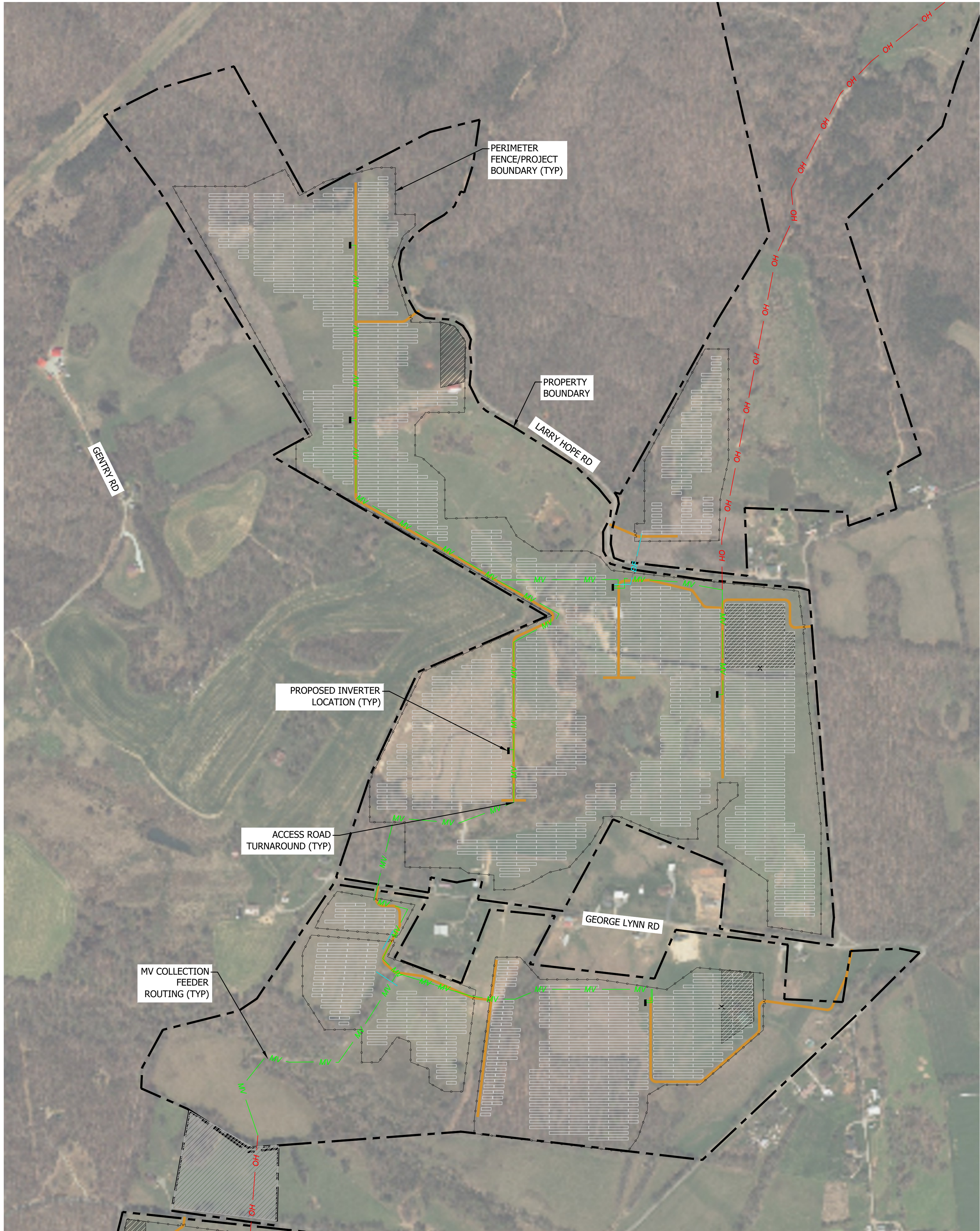
CANDELA RENEWABLES
SUMMER SHADE, METCALFE COUNTY, KY

ISSUED:		04/28/2025
PRELIMINARY PV LAYOUT		
NO.	REVISION	DATE
1	ISSUE FOR REVIEW	04/28/25

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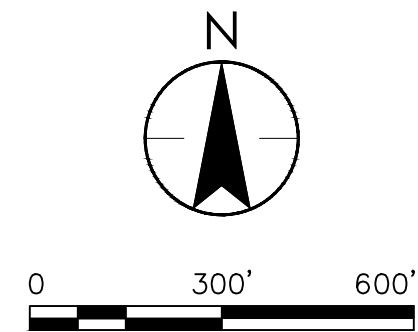
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ORIGINAL SHEET - ARCH D



LEGEND

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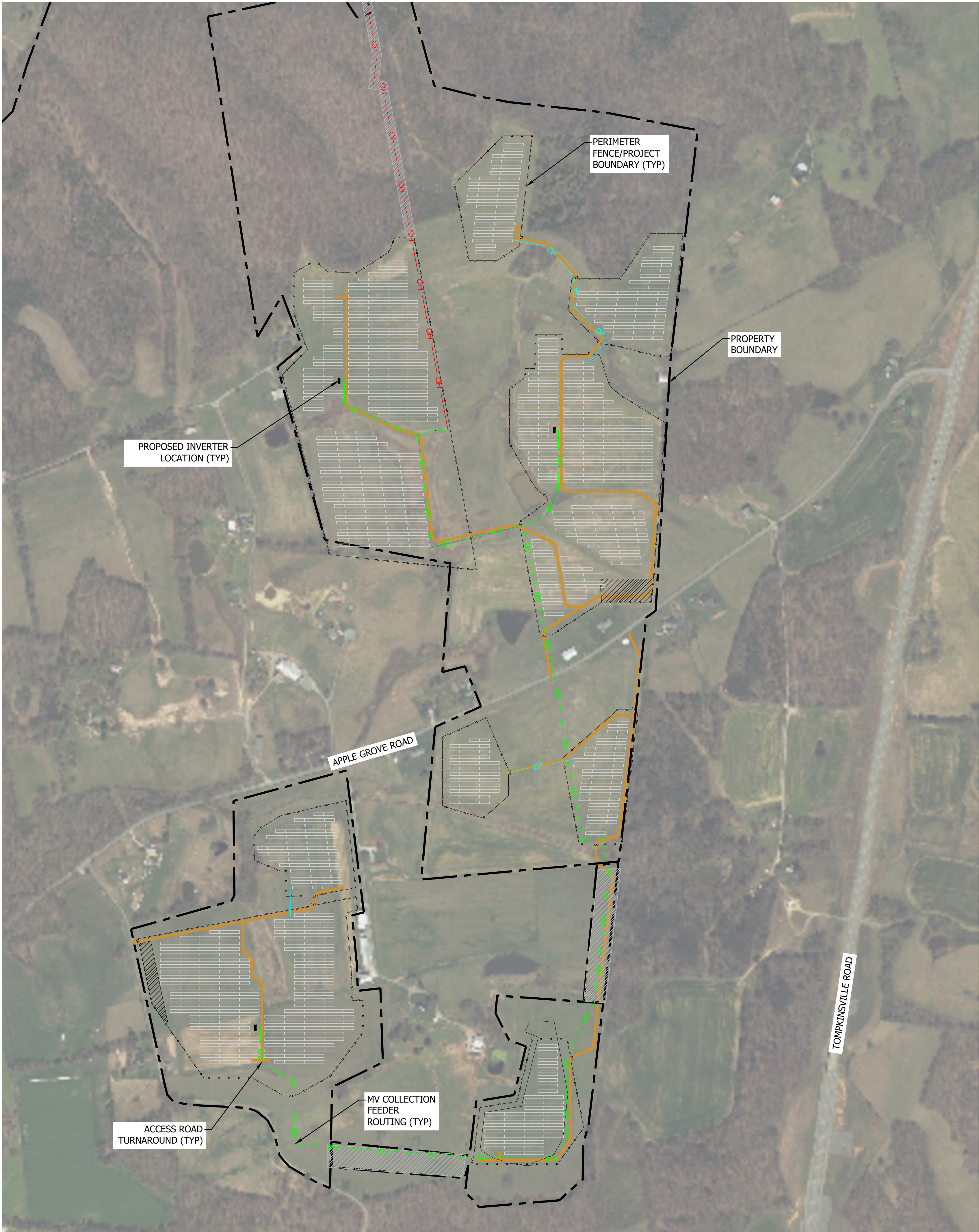


ISSUED: 04/28/2025	
PRELIMINARY PV LAYOUT	
NO.	REVISION DATE
1	ISSUE FOR REVIEW 04/28/25
DRAWN	RMA
DESIGNED	RMA
CHECKED	CMA
APPROVED	DDF
PROJ. NO.	172658275
SHEET NUMBER	
E-103	

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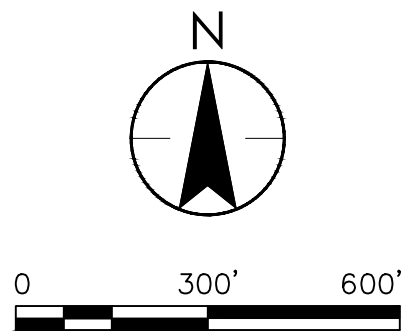
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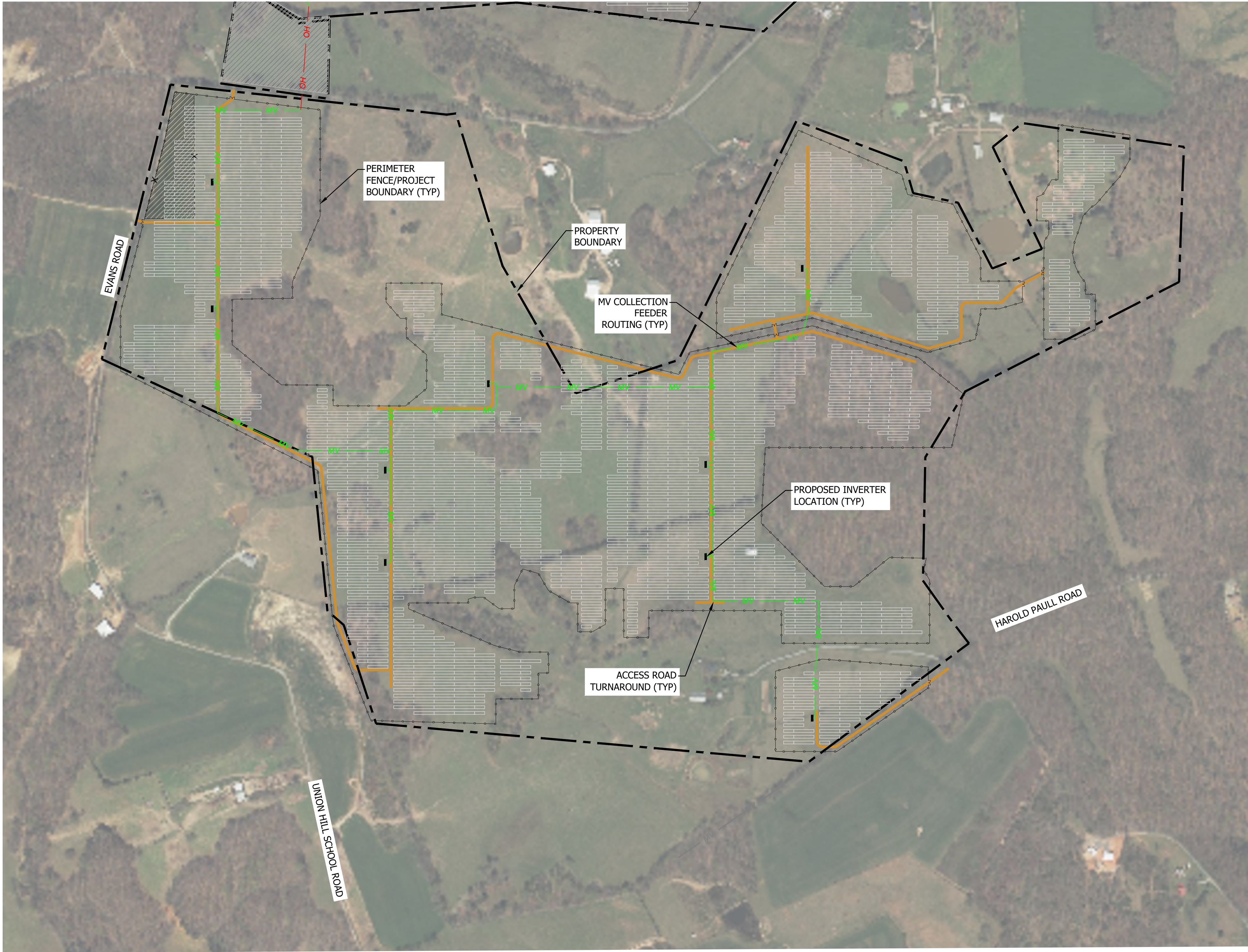
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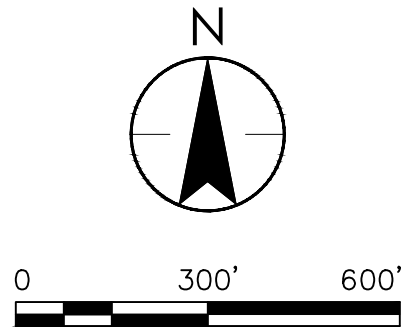
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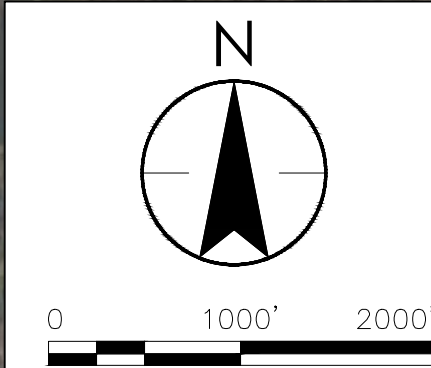
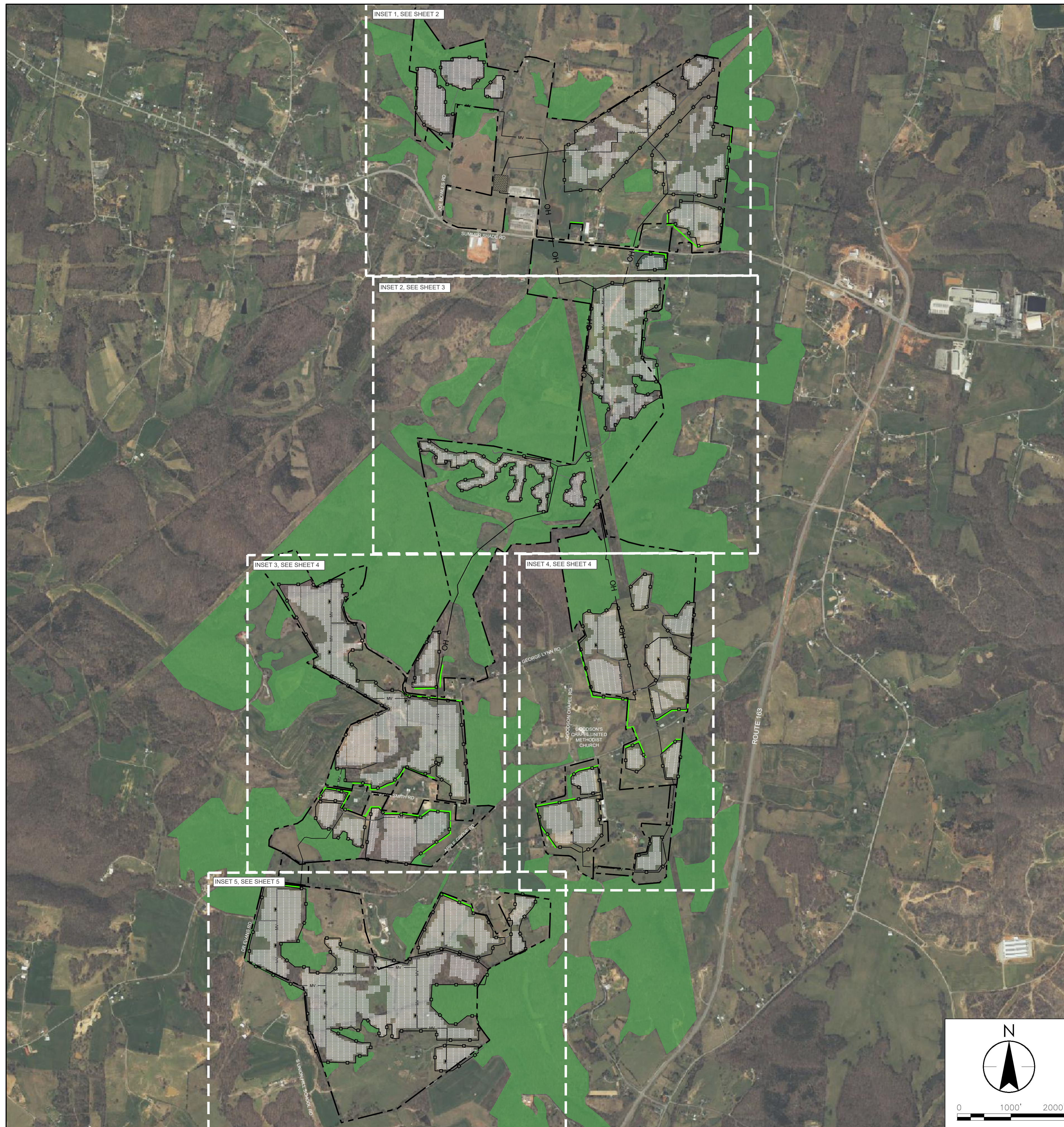
ORIGINAL SHEET - ARCH D

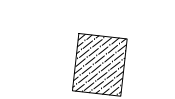


LEGEND

- PROPERTY BOUNDARY LINE
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	PROJECT BOUNDARY
	PROPOSED SITE FENCE
	SOLAR ARRAY
	ACCESS ROAD
	PROPOSED SUBSTATION
	SCREENING PROVIDED BY EXISTING VEGETATION
	PROPOSED VEGETATED EVERGREEN SCREENING
	EXISTING OVERHEAD LINES
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED MV CABLES

[illegible]

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Client/Project
CANDELA RENEWABLES

SUMMER SHADE SOLAR PROJECT

SUMMER SHADE, METCALFE COUNTY, KENTUCKY

Title
VISUAL SCREENING PLAN

Project Number: 172658275

File Name: SummerShadeSolar_PlantingPlan.dwg

SS/MD	SK	DM/MD	2025.03.20
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Drawing No.

Revision	Sheet
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INSET 1

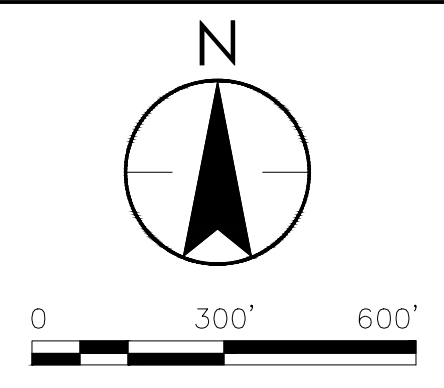
JOE BOWLES RD

SUMMER SHADE RD

0 300' 600'

N

The map shows an aerial view of a large, irregularly shaped property outlined with a thick black dashed line. The property is divided into several sections, some of which are shaded in green. A network of roads is shown, including Joe Bowles Rd and Summer Shade Rd. A series of small, rectangular structures are arranged in rows across the property, likely representing a parking lot or a residential development. A red line runs along the right side of the property, and a blue line runs along the bottom. A north arrow and a scale bar (0, 300', 600') are located in the top right corner. The text 'INSET 1' is in the top left corner. The labels 'JOE BOWLES RD' and 'SUMMER SHADE RD' are placed near their respective roads. The letters 'OH' are scattered along the roads, and 'MV' is scattered along the property boundaries. A hatched rectangular area is located near the bottom left of the property.



Legend:

- PROJECT BOUNDARY
- PROPOSED SITE FENCE
- SOLAR ARRAY
- ACCESS ROAD
- PROPOSED SUBSTATION
- SCREENING PROVIDED BY EXISTING VEGETATION
- PROPOSED VEGETATED EVERGREEN SCREENING
- EXISTING OVERHEAD LINES
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED MV CABLES



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SUMMER SHADE SOLAR PROJECT

SUMMER SHADE, METCALFE COUNTY, KENTUCKY

Visual Screening Plan - Inset 1

Permit-Seal

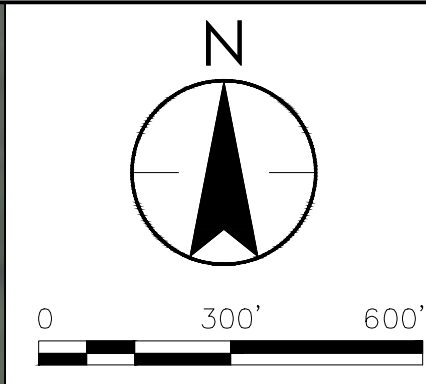
Project Number: 172658275

File Name: SummerShadeSolar_PlantingPlan.dwg

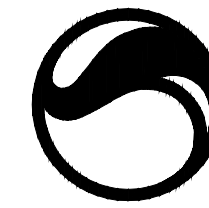
SS/MD	SK	DM/MD	2025.03.20
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Drawing No.	
Revision	Sheet

This aerial map shows a site with various green overlays and parking areas. A dashed black line outlines a specific boundary. The map includes a north arrow and a scale bar in the top right corner, indicating distances of 0, 300, and 600 feet. The site is divided into several sections, with parking lots marked by small circles. The green overlays represent different types of vegetation or land use. The map is labeled 'INSET 2' in the top left corner.



	PROJECT BOUNDARY
	PROPOSED SITE FENCE
	SOLAR ARRAY
	ACCESS ROAD
	SCREENING PROVIDED BY EXISTING VEGETATION
	PROPOSED VEGETATED EVERGREEN SCREENING
	EXISTING OVERHEAD LINES
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED MV CABLES



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SUMMER SHADE SOLAR PROJECT

SUMMER SHADE, METCALFE COUNTY, KENTUCKY

Title

VISUAL SCREENING PLAN - INSET 2

Permit-Seal

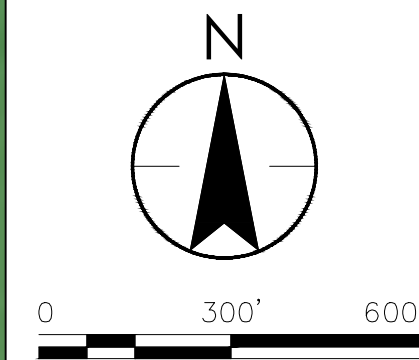
Project Number: 172658275

File Name: SummerShadeSolar_PlantingPlan.dwg

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Dwn.	Chkd.	Dsgn.	YY.MM.DD

Drawing No.

Revision	Sheet
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LEGEND

- | | |
|---|--|
|  | PROJECT BOUNDARY |
|  | PROPOSED SITE FENCE |
|  | SOLAR ARRAY |
|  | ACCESS ROAD |
|  | SCREENING PROVIDED BY
EXISTING VEGETATION |
|  | PROPOSED VEGETATED
EVERGREEN SCREENING |
|  | EXISTING OVERHEAD LINES |
|  | PROPOSED OVERHEAD
ELECTRIC |
|  | PROPOSED MV CABLES |



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SUMMER SHADE SOLAR PROJECT

SUMMER SHADE, METCALFE COUNTY, KENTUCKY

Title

VISUAL SCREENING PLAN - INSET 5

Permit-Seal

Project Number: 172658275

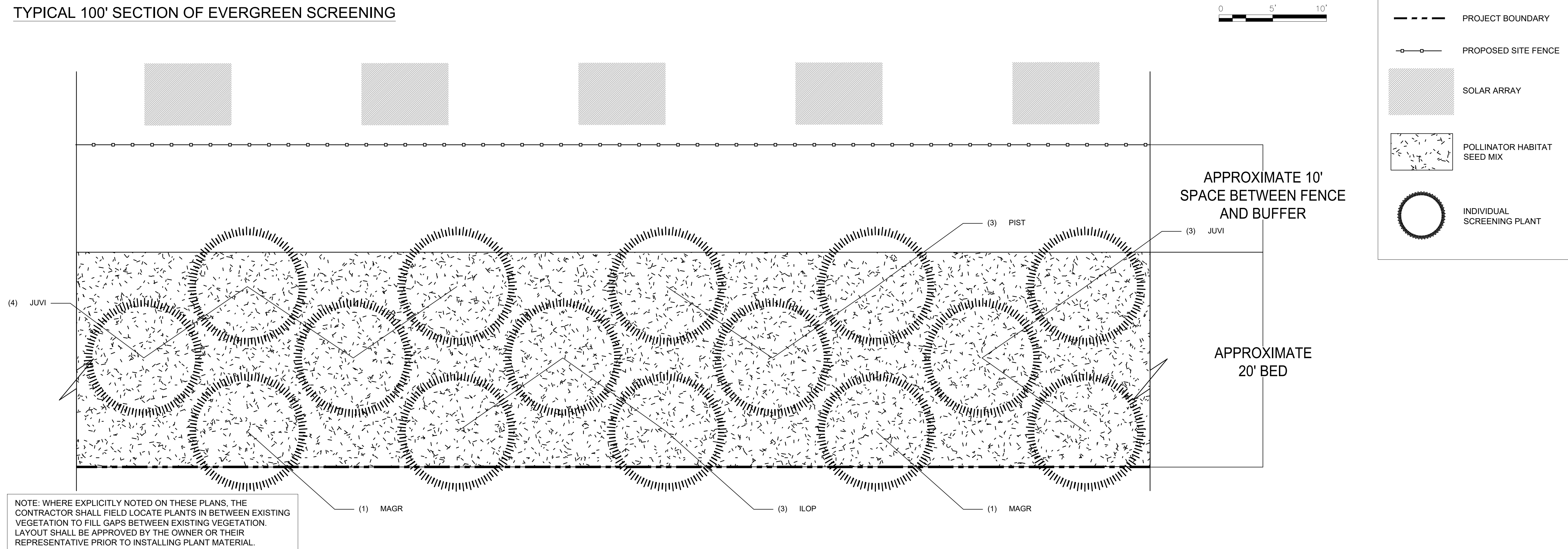
File Name: SummerShadeSolar_PlantingPlan.dwg

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TYPICAL 100' SECTION OF EVERGREEN SCREENING



SUMMER SHADE SOLAR SITE: CONCEPTUAL PLANT PALETTE

EVERGREEN SCREENING: +/- 18400 LF									
SYMBOL	BOTANICAL NAME	COMMON NAME	APPROXIMATE MATURE HEIGHT	APPROXIMATE MATURE SPREAD	CONTAINER TYPE	SPECIFICATION	QUANTITY PER 100' SEGMENT	ESTIMATED TOTAL QUANTITY	NOTES
JUVI	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	45'	20'	CONTAINER/B&B	MINIMUM 6'	7	1,233	-SPACE PLANTS AS SHOWN IN TYPICAL LAYOUT. INTENT IS TO LET THE CANOPIES GROW TOGETHER AND CREATE A SCREEN OF THE SOLAR EQUIPMENT.
PIST	PINUS STROBUS	EASTERN WHITE PINE	75'	40'	CONTAINER/B&B	MINIMUM 6'	3	528	
ILOP	ILEX OPACA	AMERICAN HOLLY	40'	25'	CONTAINER/B&B	MINIMUM 6'	3	528	
MAGR	MAGNOLIA GRANDIFLORA 'KAY PARRIS'	SOUTHERN MAGNOLIA	30'	15'	CONTAINER/B&B	MINIMUM 6'	2	352	
							TOTAL	2,642	

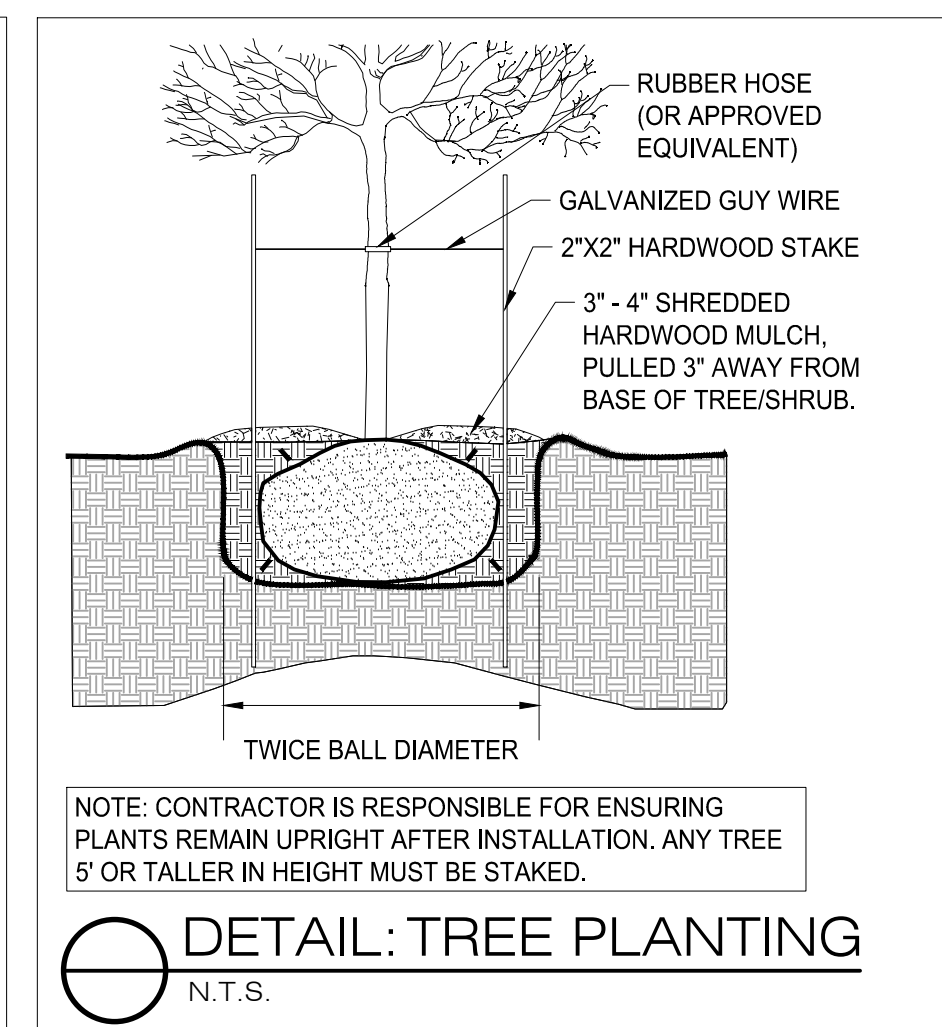
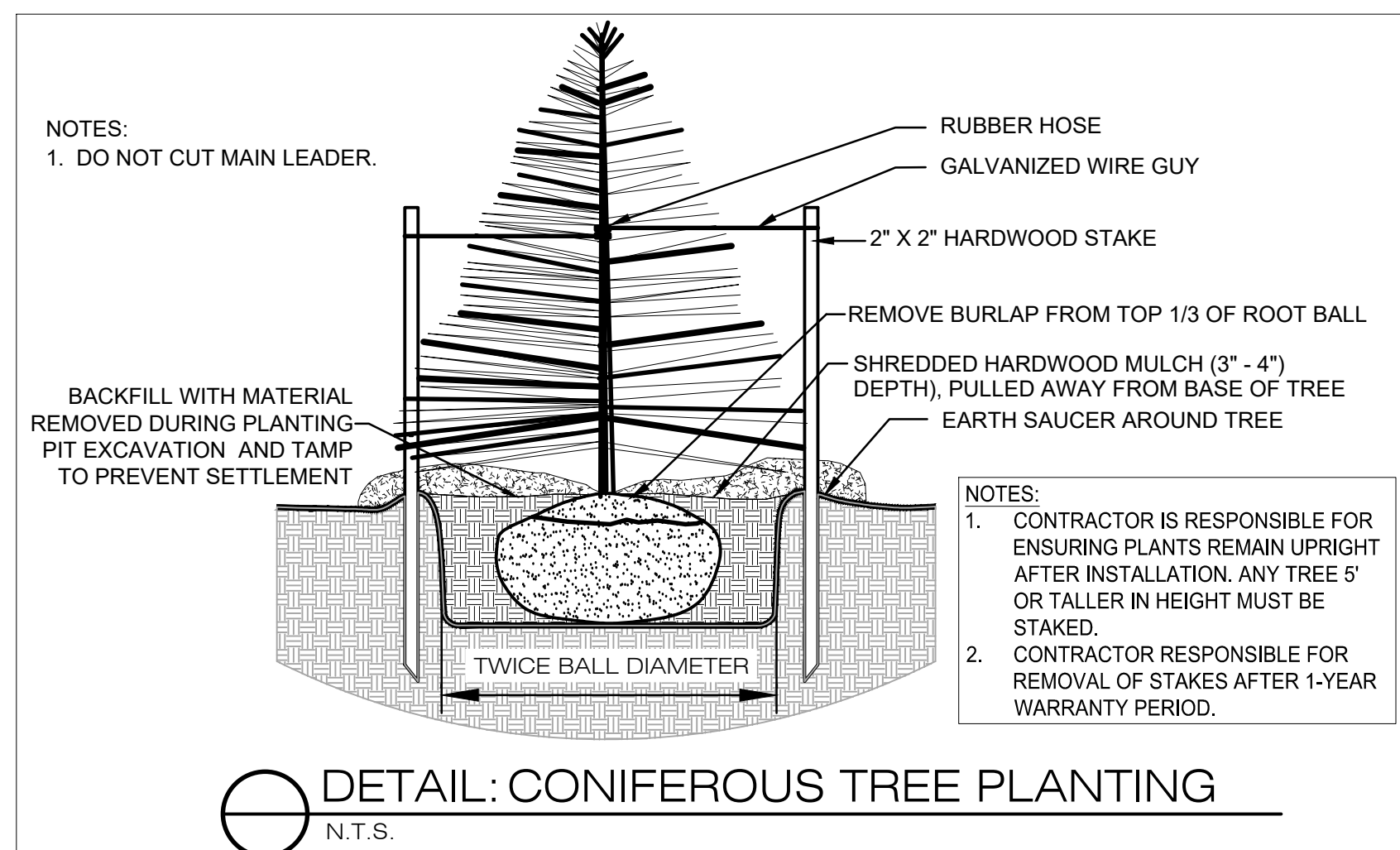
VEGETATIVE SCREENING NOTES

TREE INSTALLATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK COVERED UNDER THESE PLANS.
2. ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE FROM DEFECTS, DECAY, DISEASES, INSECT PEST EGGS, AND ALL FORMS OF INFESTATION. ALL PLANT MATERIAL SHALL BE FRESH, FREE FROM TRANSPLANT SHOCK OR VISIBLE WILT. PLANTS DEEMED UNHEALTHY SHALL BE REJECTED.
3. ALL PLANT MATERIAL SHALL MEET THE MINIMUM SPECIFICATIONS AND STANDARDS DESCRIBED IN THE CURRENT ISSUE OF "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W., SUITE 500, WASHINGTON, D. C. 20005.
4. ALL CONTAINER STOCK SHALL HAVE BEEN PROPAGATED IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL. CONTAINER STOCK WITH POORLY DEVELOPED ROOT SYSTEMS SHALL NOT BE ACCEPTED.
5. PLANTS SHALL BE PREPARED FOR SHIPMENT IN A MANNER THAT SHALL NOT CAUSE DAMAGE TO THE BARK, BUDS, BRANCHES, STEMS, OR OVERALL SHAPE OF THE GROWN. CONTAINER GROWN PLANTS SHALL BE TRANSPORTED IN THE CONTAINERS IN WHICH THEY HAVE BEEN GROWN.
6. PLANTS NOT INSTALLED ON THE DAY OF ARRIVAL AT THE SITE SHALL BE STORED AND PROTECTED BY THE CONTRACTOR. OUTSIDE STORAGE AREAS SHALL BE SHADED AND PROTECTED FROM THE WIND AND SUN. PLANTS STORED ON SITE SHALL BE PROTECTED FROM ANY DRYING AT ALL TIMES BY COVERING THE BALLS OR ROOTS WITH MOIST SAWDUST, WET BURLAP, WOOD CHIPS, SHREDDED BARK, PEAT MOSS, OR OTHER SIMILAR MULCHING MATERIAL.
7. PLANT SUBSTITUTIONS MAY BE MADE BASED ON AVAILABILITY BUT MUST BE OF SIMILAR SIZE AND LANDSCAPE (SCREENING) VALUE. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
9. NO PLANTING SHALL OCCUR WHEN THE SOIL IS FROZEN.

PLANTING SEQUENCE

1. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
2. HOLES FOR INDIVIDUAL PLANTINGS SHALL BE EXCAVATED TO PRODUCE VERTICAL SIDES AND FLAT BOTTOMS. ALL PLANTING HOLES SHALL HAVE ROUGHED, SCARIFIED SIDES AND BOTTOMS.
3. THE CONTRACTOR SHALL APPLY AGRIFORM FOREST STARTER TABLETS, OR EQUIVALENT PRODUCT, TO EACH PLANT AS PER MANUFACTURER'S DIRECTIONS ON LABEL AT TIME OF PLANTING.
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT WITH THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
6. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP.
7. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
8. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.
9. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY THE INSTALLATION OF SHRUBS AND TREES.
10. ONLY INDIVIDUAL PLANTS OR CLUSTERS OF PLANS SHALL BE MULCHED. THE REMAINING BUFFERYARD SHALL BE SEEDED WITH NATIVE POLLINATOR FRIENDLY SPECIES.

[illegible]

Client/Project
CANDELA RENEWABLES

SUMMER SHADE SOLAR PROJECT

SUMMER SHADE, METCALFE COUNTY, KENTUCKY

PLANTING LAYOUT, NOTES, & DETAILS

Permit-Seal

Project Number: 172658275

File Name: SummerShadeSolar_PlantingPlan.dwg

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