

SYSTEM SPECIFICATIONS	
SYSTEM SIZE DC	6,124.68 kW
SYSTEM SIZE AC	3,998.40 kW
DC/AC RATIO	1.53
MODULE MANUFACTURER	HELIENE
MODULE MODEL	144HC M10
MODULE RATING	530 W
TOTAL MODULE QTY	11,556
MODULES PER STRING	27
TOTAL NO. OF STRINGS	428
BESS RATING	4000kW / 8000kWh
DURATION	2 HOURS
INVERTER MANUFACTURER	GINLONG SOLIS
INVERTER MODEL	SOLIS 185K EHV 5G US
INVERTER RATING	166.6 kW*
INVERTER QTY	24
NO. OF STRINGS PER INVERTER	17, 18
STEP-UP TRANSFORMER	(2)13.8KV/600V, 2199KVA
RACKING	ATI HSAT
TILT ANGLE	0°
TOTAL NO. TRACKER ROW WITH 108 MODULES	74
TOTAL NO. TRACKER ROW WITH 81 MODULES	34
TOTAL NO. TRACKER ROW WITH 54 MODULES	15
INTER-ROW SPACING	11.2'
PITCH	18.7'
GCR	40%
AREA OCCUPIED	23.04 AC
* INVERTERS ARE TO BE FACTORY PROGRAMMED TO OUTPUT 166.6KW MAX.	
BESS SPECIFICATIONS	
MANUFACTURER	SYL BATTERY CO., LTD
RATED POWER	2,720 kW
CAPACITY	5,447.68 kWh
MODEL	SU340U170K

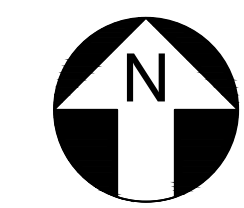
- GENERAL NOTES**
- CUSTOMER POLE, UTILITY AC DISCONNECT, FUSED, ACCESSIBLE, VISIBLE AND LOCKABLE DISCONNECT. PROVIDE PLACARD STATING "UTILITY AC DISCONNECT".
  - DISCONNECT: WILL BE ACCESSIBLE, LOCKABLE, VISIBLE BLADE DISCONNECT.
  - PV INSTALLATION TO COMPLY WITH NEC 2020 ARTICLE 690 AND ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES OR REGULATIONS.
  - EQUIPMENT SHALL BE LABELED PER NEC 2020 ARTICLE 690.
  - 12' ACCESS DRIVES SHALL BE DESIGNED TO ACCOMMODATE ALL CONSTRUCTION, OPERATIONS, MAINTENANCE AND UTILITY TRAFFIC THROUGHOUT THE SITE.
  - PROVIDE UTILITY 24/7 UNESCORTED KEYLESS ACCESS.
  - ALL EQUIPMENT CLEARANCES AND WORK SPACES SHALL COMPLY WITH NEC 2020 REQUIREMENTS.

**LEGEND**

	108 MODULES TRACKER ROW
	81 MODULES TRACKER ROW
	54 MODULES TRACKER ROW
	(1) 600V 3000A PANELBOARD
	POWER STATION - (1) MV TRANSFORMER, (1) DAS, (1) WEATHER STATION
	STRING INVERTER
	12' WIDE SITE ACCESS ROAD
	EXISTING ROADS
	PROPERTY LINE
	SETBACK
	U.G. MEDIUM VOLTAGE CABLE
	UTILITY CIRCUIT
	PROJECT SITE SECURITY FENCE
	STORM WATER BASIN



**1 ARRAY PLAN**  
SCALE: 1"=125'



PROJECT:  
**USS MAN SOLAR LLC**

PROJECT ADDRESS:  
**E 3000 N RD,  
MANVILLE, IL 61319**

LAT: 41.063296°  
LON: -88.747629°

REV. NO.	DESCRIPTION	DATE
0	PRELIMINARY	08/02/22

SHEET TITLE:  
**PRELIMINARY LAYOUT**

DRAWING NO.:  
**PV-100**

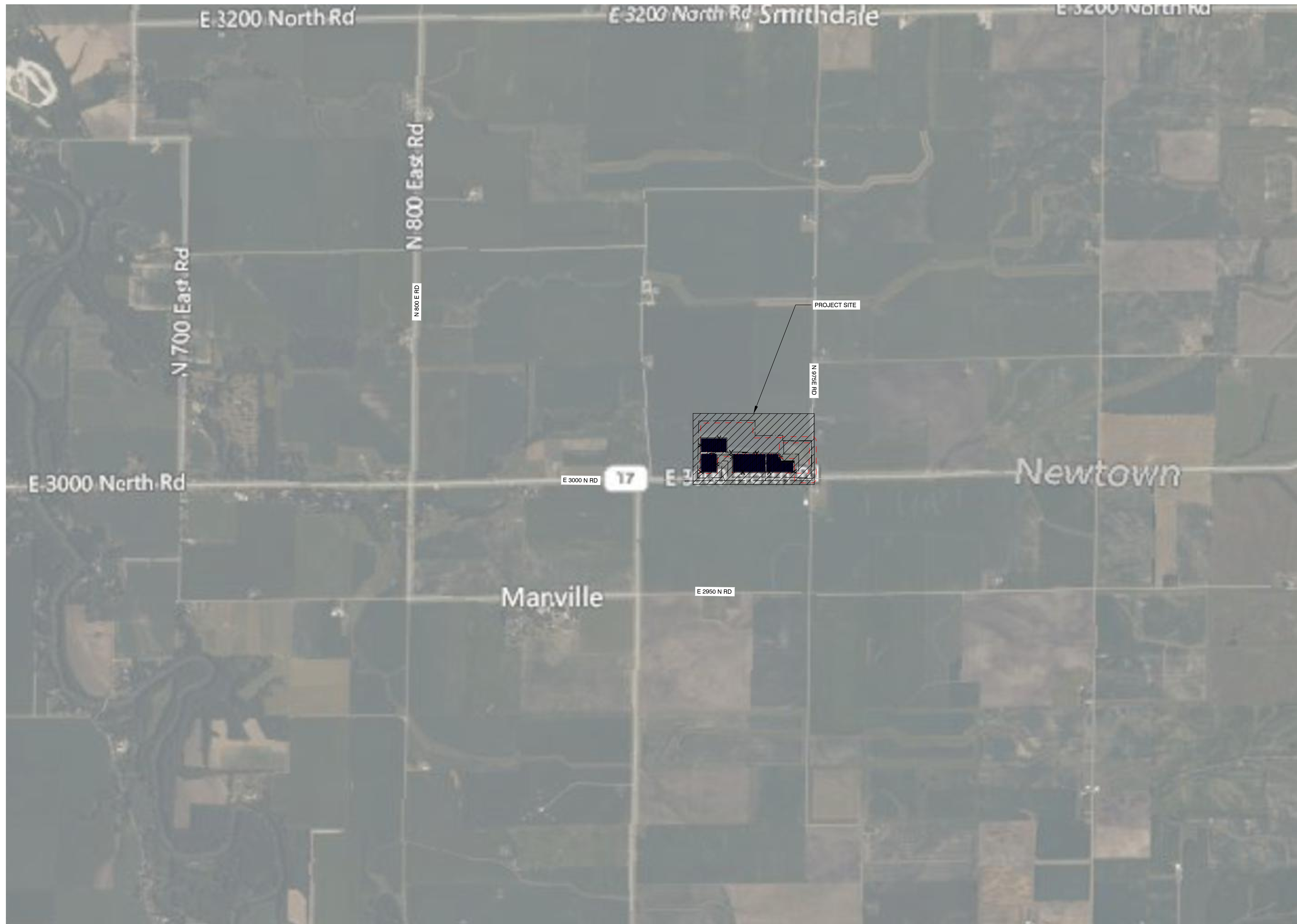
DRAWN BY:  
LR

REVIEWED BY:

DATE:  
08/02/22

SCALE:  
AS SHOWN

PROJECT NO.:



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REV. NO.	DESCRIPTION	DATE
0	PRELIMINARY	08/02/22

SHEET TITLE:

**PRELIMINARY  
LAYOUT**

DRAWING NO.:

**PV-101**

DRAWN BY:

LR

REVIEWED BY:

DATE:

08/02/22

SCALE:

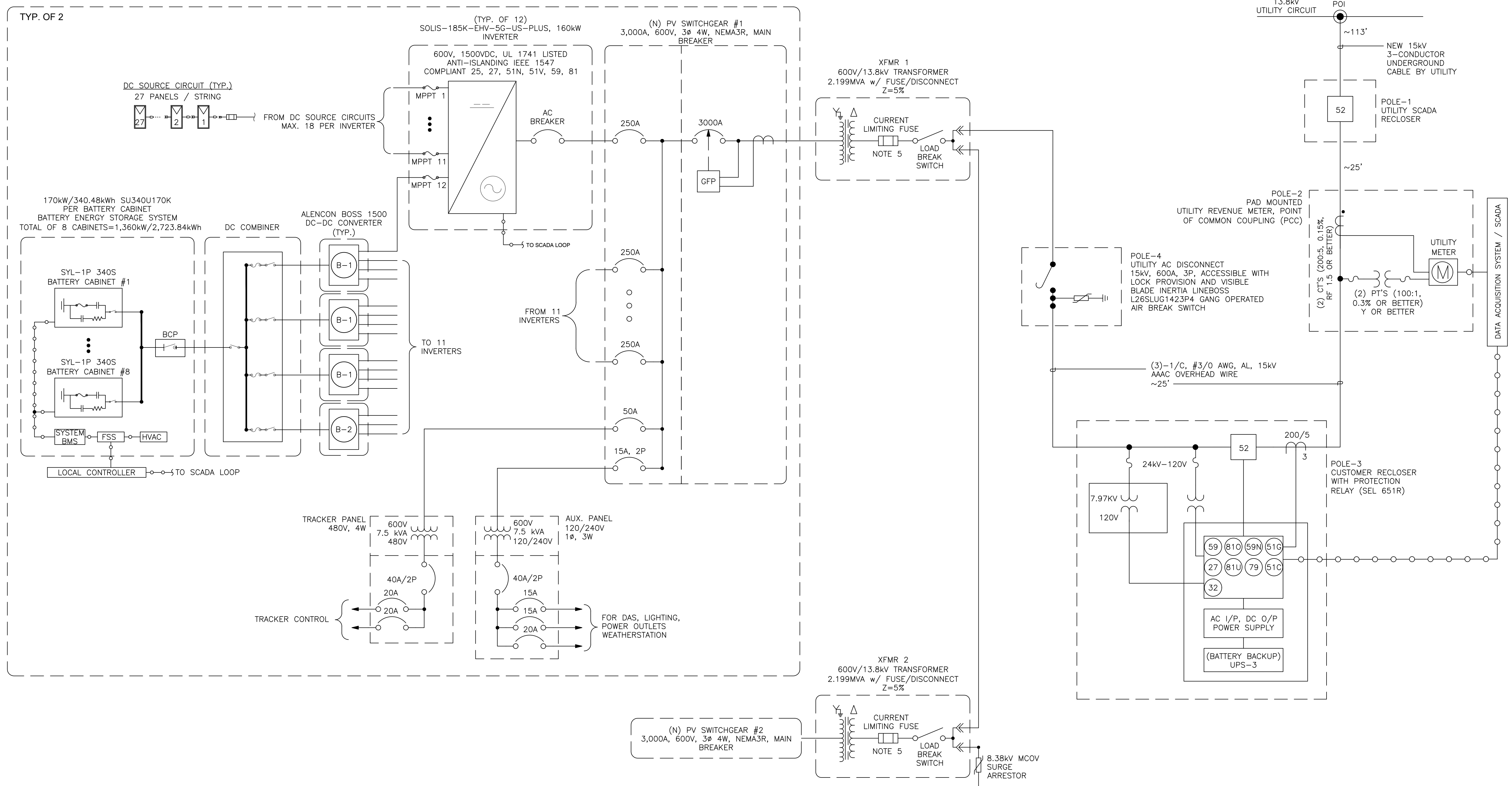
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PROJECT NO.:

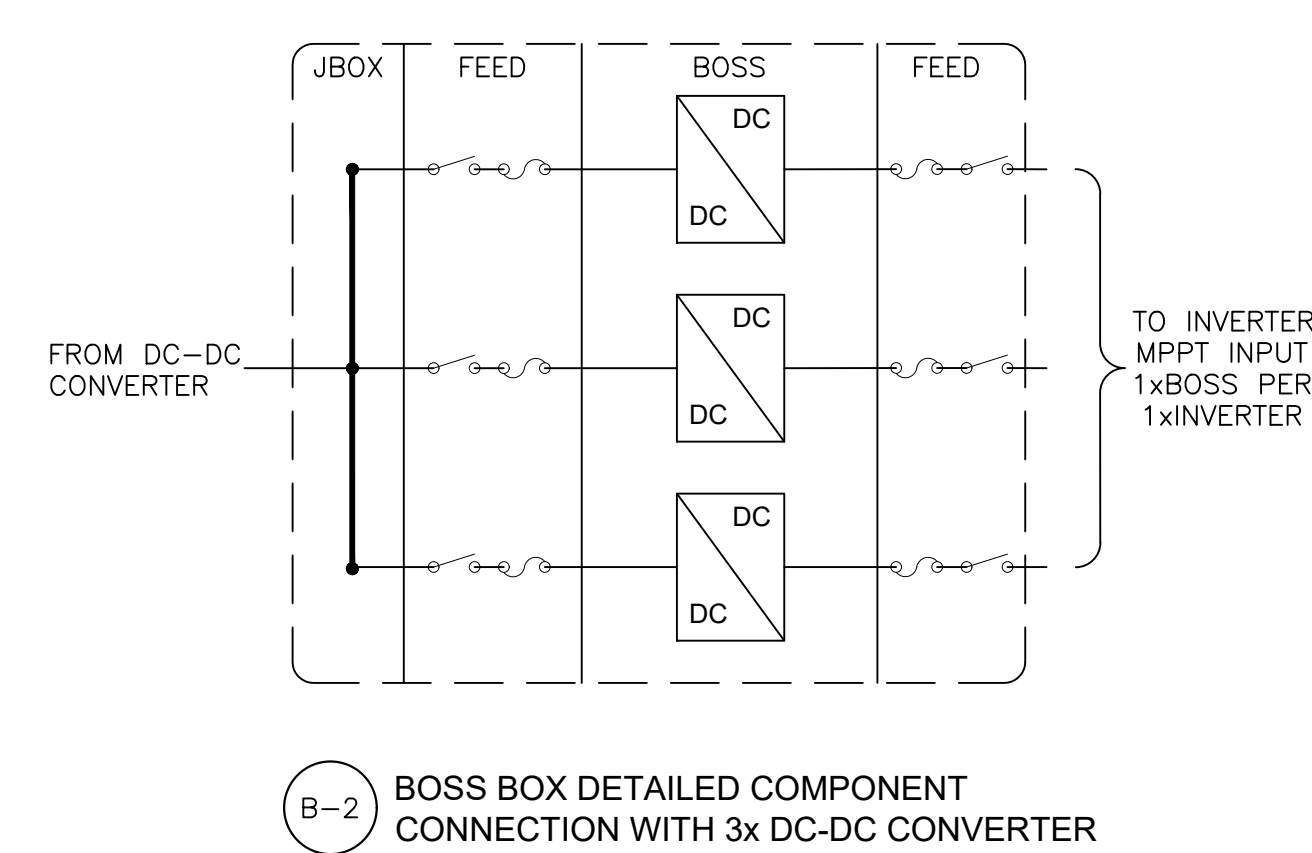
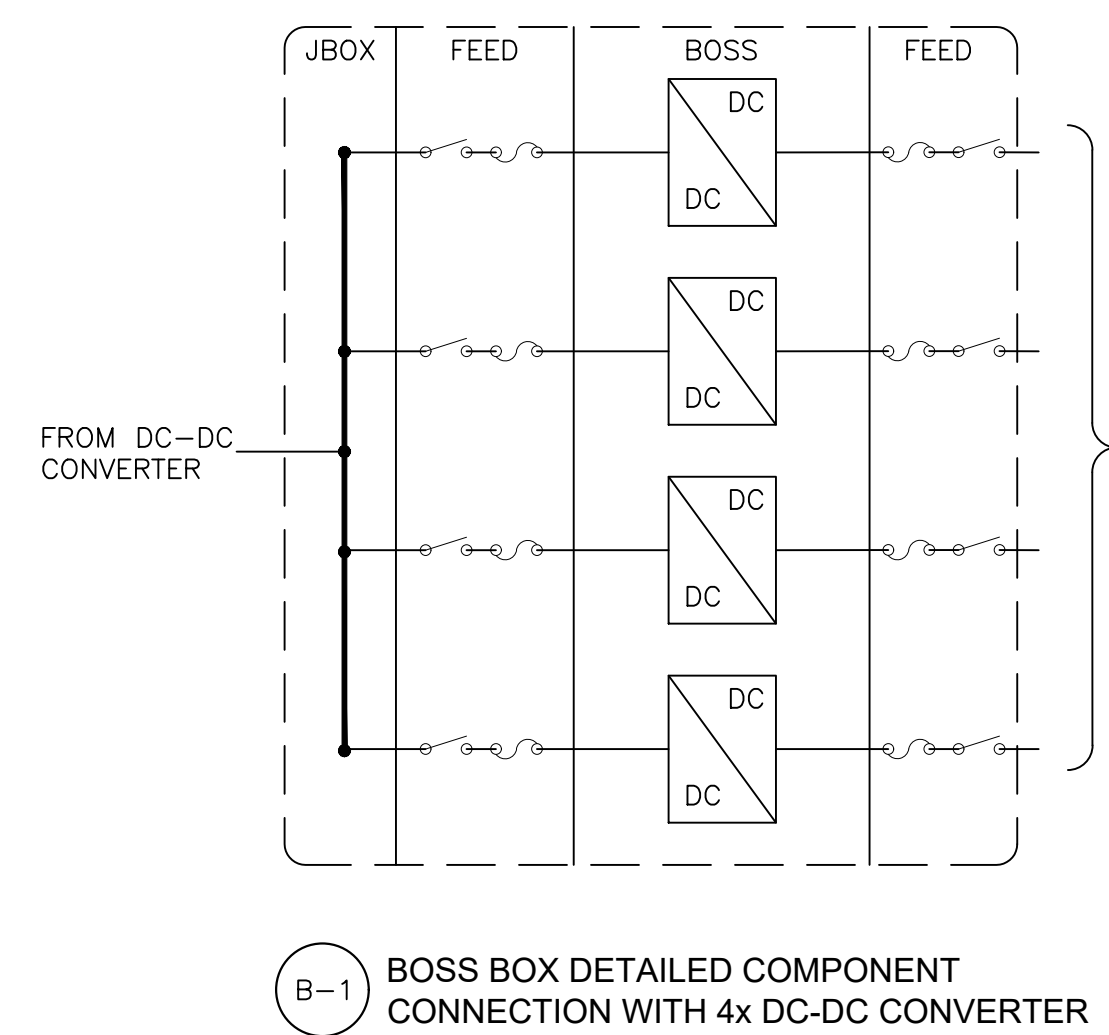
**1 SITE LOCATION**  
SCALE: 1"=1000'







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MODEL	SU340U170K



- GENERAL NOTES**
- AC MV CIRCUITS SHALL BE INSTALLED AND INTERCONNECTED WITH UTILITY, PER UTILITY SPECIFICATIONS.
  - ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
  - ALL DC AND AC EQUIPMENT, WHERE APPLICABLE, SHALL BE LISTED AND LABELED PER RECOGNIZED ELECTRICAL TESTING LABORATORY AND INSTALLED PER THE LISTING REQUIREMENTS, THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH NEC.
  - FINAL RECLOSER CONTROL SETTINGS TO BE COORDINATED WITH UTILITY AND CONTRACTOR.
  - ALL BREAKERS AND DISCONNECT SWITCHES ARE CLOSED UNDER NORMAL OPERATING CONDITIONS UNLESS OTHERWISE NOTED.

**NOT FOR CONSTRUCTION**

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LAT: 41.063296°  
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REV. NO.	DESCRIPTION	DATE
0	PRELIMINARY	08/02/22

SHEET TITLE:

**SINGLE LINE DIAGRAM**

DRAWING NO.:

**E-100**

DRAWN BY:

LR

REVIEWED BY:

DATE:

08/02/22

SCALE:

AS SHOWN

PROJECT NO.: