



- NOTES:**
1. THIS DRAWING IS CONCEPTUAL IN NATURE AND SELECTION OF MODULES, INVERTERS, AND OTHER EQUIPMENT IS PRELIMINARY. ALL EQUIPMENT IS SUBJECT TO CHANGE DURING FINAL DESIGN.
 2. THE NET BUILDABLE SOLAR AREA HAS BEEN CREATED BASED ON INFORMATION PROVIDED BY WPL, DOCUMENT "WOOD COUNTY SETBACK PDF" DATED 10/25/2020 IN ADDITION TO OTHER REQUIREMENTS AND AVAILABLE INFORMATION.
 3. SOLAR SETBACK IS 20' MINIMUM FROM FENCE LINE.
 4. RISEN SOLAR MODULES ARE INSTALLED IN ISA-12 THROUGH ISA-14, AND A PORTION OF ISA-18.
 5. INTERCONNECTION LINE NOT SHOWN ON THE DRAWING. PLEASE REFERENCE INTERCONNECTION LINE DRAWINGS.

SYSTEM DESCRIPTION	
POI CAPACITY (AC)	150.00 MW
TOTAL INVERTER CAPACITY UP TO 40°C	184.41 MVA
SOLAR CAPACITY (DC)	198.56 MW
DC:AC RATIO @ POI	1.32
AC COLLECTION SYSTEM VOLTAGE	34.5 kV
OVERALL NUMBER OF ISAs	41

RACKING PARAMETERS	
GROUND COVER RATIO	31.28%
RACKING	SINGLE AXIS TRACKER (1P)
TILT ANGLE	+/- 52°
ROW TO ROW SPACING	TRINA MODULES - 25.00' RISEN MODULES - 21.14'
AVERAGE AZIMUTH ANGLE	0
NO. OF 3-STRING TRACKER ROWS (TRINA)	3,446
NO. OF 4-STRING TRACKER ROWS (RISEN)	406

INVERTER PARAMETERS	
MAKE	POWER ELECTRONICS
MODEL #	FS4010M
MAX POWER OUTPUT @ 50°C	3,720 kVA
MAX POWER OUTPUT @ 40°C (DESIGN TEMP)	4,010 kVA
AC VOLTAGE	630 V
MAX DC VOLTAGE	1,500 V
MPPT DC VOLTAGE RANGE	891 - 1,500 V

MODULE #1 PARAMETERS	
MAKE	TRINA SOLAR DUOMAX TWIN
MODEL #	TSM-DEG19C.20
AVERAGE POWER RATING	535 W
TOTAL MODULES	341,154 (3,446 TRACKER ROWS)
MODULES PER STRING	33
TOTAL POWER RATING	182.52 MW
MAX DC VOLTAGE	1,500 V

MODULE #2 PARAMETERS	
MAKE	RISEN SOLAR TECHNOLOGY
MODEL #	RSM144-6-380BMDG
POWER RATING	380 W
TOTAL MODULES	42,224 (406 TRACKER ROWS)
MODULES PER STRING	26
TOTAL POWER RATING	16.05 MW
MAX DC VOLTAGE	1,500 V

Plant Operations

Alliant Energy - Wisconsin Power & Light
4902 North Biltmore Lane
Madison, WI 53718
Mike Braley
MikeBraley@alliantenergy.com

PRELIMINARY - NOT
FOR CONSTRUCTION

FOR BID
Date: 04-02-2021



9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
Burns & McDonnell Engineering Co., Inc.
Firm License No. 1308-11
BMCD 129461
CONTRACT 8410

NO.	DATE	REVISION	BY	CHKD	APVD
D	04-02-2021	PE INVERTER & SAFE HARBOR REALLOCATION	KAC	MJS	JLB
C	03-28-2021	REVISED PER OWNER COMMENTS	KAC	MJS	JLB
B	03-18-2021	ISSUED FOR BID	KAC	MJS	JLB
A	02-05-2021	ISSUED FOR REVIEW	KAC	MJS	TJS

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WISCONSIN POWER AND LIGHT COMPANY
WOOD COUNTY, WI

WOOD COUNTY SOLAR
OVERALL SITE PLAN

SCALE: AS NOTED

DWG. NO. 129461-EC-003