

**SCHEDULE AGREEMENT FOR THE INTERCONNECTION OF THE TOWN OF
PRESCOTT VALLEY / 1100 E. TREATMENT PLANT RD., PRESCOTT VALLEY, AZ
PHOTOVOLTAIC SYSTEM TO THE APS DISTRIBUTION SYSTEM**

PURSUANT TO THE

**MASTER AGREEMENT FOR THE INTERCONNECTION OF GENERATING FACILITIES
TO THE APS DISTRIBUTION SYSTEM BETWEEN ARIZONA PUBLIC SERVICE
COMPANY AND TOWN OF PRESCOTT VALLEY (APS AGREEMENT NO. 11-COM-
0009)**

This SCHEDULE, dated August 31, 2011 is entered into by the undersigned Parties, pursuant to, in accordance with and subject to the terms and conditions of the Master Agreement for the Interconnection of Generating Facilities to the APS Distribution System, dated as of August 31, 2011 (APS Agreement No. 11-COM-0009 and also referred to as the "Master Agreement").

1. This Schedule is entered into in respect to the ownership, installation, operation and maintenance of the GF described herein.
2. The GF shall be permanently located at 1100 E. Treatment Plant Rd, Prescott Valley and is scheduled to begin operation in electrical parallel with APS' electric distribution system, on or about September 14, 2011.
3. In addition to the provisions specified in Section 5 of the Master Agreement, this Schedule shall remain in effect as long as the GF referred to herein remains interconnected with the APS System.
4. The Specifications of the GF are described as follows:

Type: Advanced Energy – Solaron 500 kW

Fuel or Energy Source: Photovoltaic

Unit Nameplate Output Rating: 500 kW

No. of Units: 1

Total Nameplate Output of all Units: 500 kW

5. Attached to this Schedule and made a part hereof is the following Appendix:

APPENDIX A: Operating Agreement

6. Special Terms and Conditions:

- 6.1 The GF shall meet the specifications and requirements set forth in this Schedule and on the drawings provided for APS review.
- 6.2 Customer intends to net meter excess generation with APS.
- 6.3 The point of delivery for APS electric service to the Generating Facility (GF) is at the Customer's 277 /480 V Service Entrance Section (SES).
- 6.4 In accordance with the Master Agreement an acceptable visibly open and lockable isolation point will be provided by the Customer on the Customer's side of the SES meter section, to electrically isolate the Customer-owned facilities from all APS electric service equipment in order to establish a safe work area for APS personnel.

The isolation point will comprise a load break Disconnect Device. When an electrical clearance is required by APS, Customer shall provide personnel and equipment on site to open the Disconnect Device so as to provide a visible open and lockable isolation point acceptable to APS personnel.

Customer will be required to electrically isolate the GF from the APS System at the time of install and in the event that APS needs to perform subsequent maintenance on its equipment in the metering compartment or electric service equipment.

- 6.5 Where the applicable rate schedule or other APS requirement and/or agreement requires meter(s) to be installed to record the output of the GF Generator(s), Customer will provide, at its expense, a dedicated phone line to each such meter also to the SES utility meter(s) and/or sub meters if necessary. Each dedicated phone line is to be landed on the APS-provided telephone interface module, normally located within two feet of the meter.
 - 6.6 Customer shall install, or cause to be installed, and will maintain such other equipment as is specified in this Schedule, or as may mutually be agreed upon by the Customer and APS from time to time during the term of this Schedule and any extensions thereof.
7. This Schedule is entered into pursuant to, in accordance with and subject to the terms and conditions of the Master Agreement. In the event of conflicts between this Schedule and the Master Agreement the terms of this Schedule shall govern. No provision contained in this Schedule shall have the effect of amending the Master Agreement's terms and conditions as they pertain to any other Schedule entered into under the Master Agreement. The Master Agreement may only be amended or modified by a written amendment signed by the Parties.

8. Execution:

IN WITNESS WHEREOF, the Parties have caused this Schedule to be executed by their duly authorized representatives as of the date hereinabove set forth.

ARIZONA PUBLIC SERVICE COMPANY

TOWN OF PRESCOTT VALLEY

“APS”

“Customer”

Signature: _____

Signature: _____

Name: _____

Name: _____

Title: _____

Title: _____

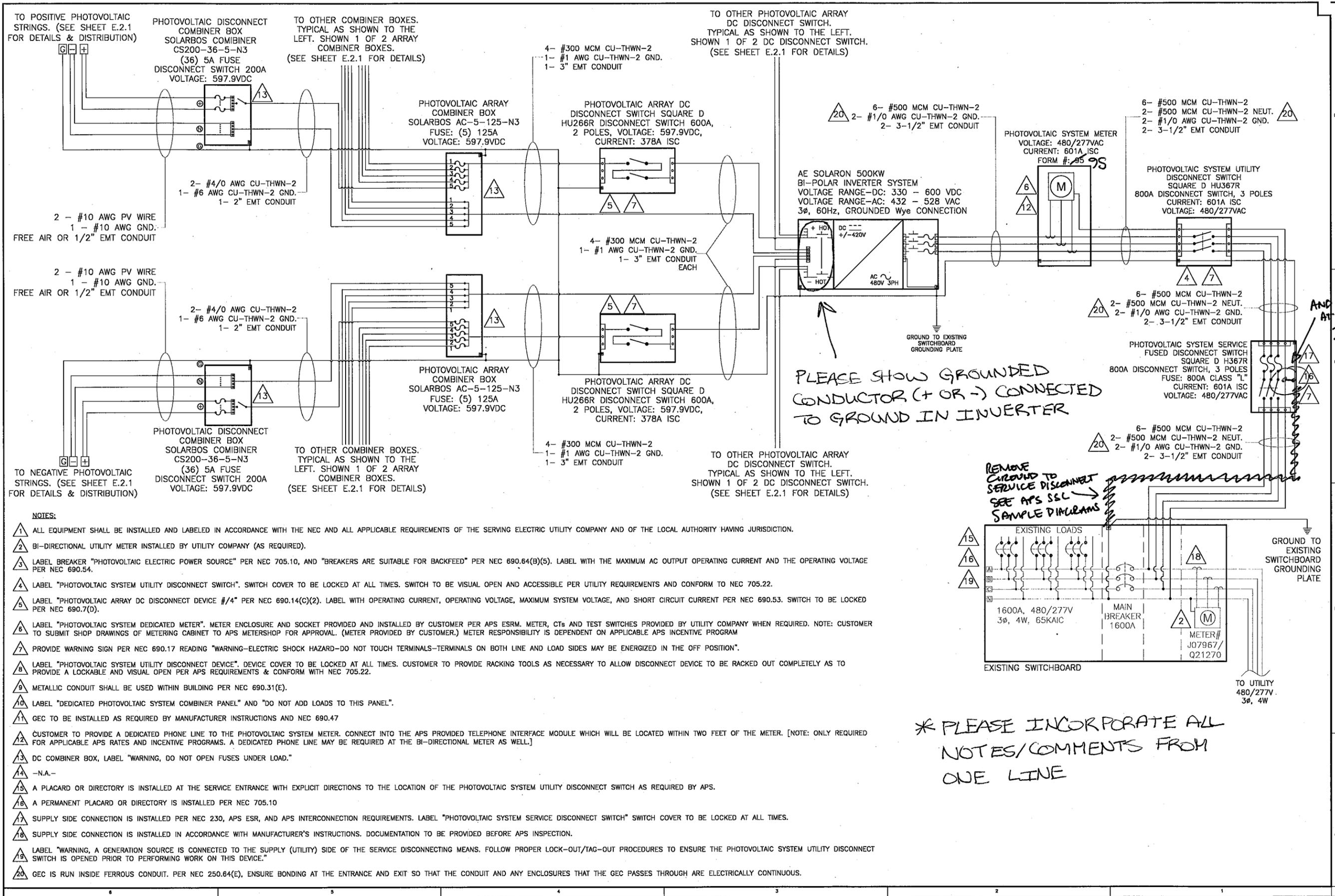
Date: _____

Date: _____

APPENDIX A (NOT APPLICABLE)

OPERATING AGREEMENT

1. Customer and APS shall jointly develop, implement and maintain an “Operating Agreement” which shall be used when either Party needs to establish a safe working area on its 12.47 kV equipment and it is necessary to isolate the affected equipment from any APS power source(s) and any power source(s) located on Customer’s Property. This Operating Agreement will also address the normal day-to-day operating requirements relating to Customer’s interconnected GF.
2. Such Operating Agreement may be modified and/or updated from time to time with the mutual consent and written agreement of both Parties without requiring any revision to the Master Agreement, this Schedule or its attachments.
3. Each Party shall keep a current copy of such Operating Agreement on file: Customer shall maintain a copy at its control center or other designated location, and APS shall maintain a copy in its designated operations center. Each Party shall be available on a 24 hour basis for the administration of the Operating Agreement.
4. In the event that any pertinent information (such as contact names, telephone numbers, safety procedures, etc) relating to a Party and contained in the Operating Agreement should change, it shall be that Party’s responsibility to contact the other Party by written notice in order to update the Operating Agreement.



- NOTES:**
- 1 ALL EQUIPMENT SHALL BE INSTALLED AND LABELED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
 - 2 BI-DIRECTIONAL UTILITY METER INSTALLED BY UTILITY COMPANY (AS REQUIRED).
 - 3 LABEL BREAKER "PHOTOVOLTAIC ELECTRIC POWER SOURCE" PER NEC 705.10, AND "BREAKERS ARE SUITABLE FOR BACKFEED" PER NEC 690.64(B)(5). LABEL WITH THE MAXIMUM AC OUTPUT OPERATING CURRENT AND THE OPERATING VOLTAGE PER NEC 690.54.
 - 4 LABEL "PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED AT ALL TIMES. SWITCH TO BE VISUAL OPEN AND ACCESSIBLE PER UTILITY REQUIREMENTS AND CONFORM TO NEC 705.22.
 - 5 LABEL "PHOTOVOLTAIC ARRAY DC DISCONNECT DEVICE #1/4" PER NEC 690.14(C)(2). LABEL WITH OPERATING CURRENT, OPERATING VOLTAGE, MAXIMUM SYSTEM VOLTAGE, AND SHORT CIRCUIT CURRENT PER NEC 690.53. SWITCH TO BE LOCKED PER NEC 690.7(D).
 - 6 LABEL "PHOTOVOLTAIC SYSTEM DEDICATED METER". METER ENCLOSURE AND SOCKET PROVIDED AND INSTALLED BY CUSTOMER PER APS ESRM. METER, CTs AND TEST SWITCHES PROVIDED BY UTILITY COMPANY WHEN REQUIRED. NOTE: CUSTOMER TO SUBMIT SHOP DRAWINGS OF METERING CABINET TO APS METERSHOP FOR APPROVAL. (METER PROVIDED BY CUSTOMER.) METER RESPONSIBILITY IS DEPENDENT ON APPLICABLE APS INCENTIVE PROGRAM
 - 7 PROVIDE WARNING SIGN PER NEC 690.17 READING "WARNING-ELECTRIC SHOCK HAZARD-DO NOT TOUCH TERMINALS-TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OFF POSITION".
 - 8 LABEL "PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT DEVICE". DEVICE COVER TO BE LOCKED AT ALL TIMES. CUSTOMER TO PROVIDE RACKING TOOLS AS NECESSARY TO ALLOW DISCONNECT DEVICE TO BE RACKED OUT COMPLETELY AS TO PROVIDE A LOCKABLE AND VISUAL OPEN PER APS REQUIREMENTS & CONFORM WITH NEC 705.22.
 - 9 METALLIC CONDUIT SHALL BE USED WITHIN BUILDING PER NEC 690.31(E).
 - 10 LABEL "DEDICATED PHOTOVOLTAIC SYSTEM COMBINER PANEL" AND "DO NOT ADD LOADS TO THIS PANEL".
 - 11 GEC TO BE INSTALLED AS REQUIRED BY MANUFACTURER INSTRUCTIONS AND NEC 690.47
 - 12 CUSTOMER TO PROVIDE A DEDICATED PHONE LINE TO THE PHOTOVOLTAIC SYSTEM METER. CONNECT INTO THE APS PROVIDED TELEPHONE INTERFACE MODULE WHICH WILL BE LOCATED WITHIN TWO FEET OF THE METER. [NOTE: ONLY REQUIRED FOR APPLICABLE APS RATES AND INCENTIVE PROGRAMS. A DEDICATED PHONE LINE MAY BE REQUIRED AT THE BI-DIRECTIONAL METER AS WELL.]
 - 13 DC COMBINER BOX. LABEL "WARNING, DO NOT OPEN FUSES UNDER LOAD."
 - 14 -N.A.-
 - 15 A PLACARD OR DIRECTORY IS INSTALLED AT THE SERVICE ENTRANCE WITH EXPLICIT DIRECTIONS TO THE LOCATION OF THE PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH AS REQUIRED BY APS.
 - 16 A PERMANENT PLACARD OR DIRECTORY IS INSTALLED PER NEC 705.10
 - 17 SUPPLY SIDE CONNECTION IS INSTALLED PER NEC 230, APS ESR, AND APS INTERCONNECTION REQUIREMENTS. LABEL "PHOTOVOLTAIC SYSTEM SERVICE DISCONNECT SWITCH" SWITCH COVER TO BE LOCKED AT ALL TIMES.
 - 18 SUPPLY SIDE CONNECTION IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DOCUMENTATION TO BE PROVIDED BEFORE APS INSPECTION.
 - 19 LABEL "WARNING, A GENERATION SOURCE IS CONNECTED TO THE SUPPLY (UTILITY) SIDE OF THE SERVICE DISCONNECTING MEANS. FOLLOW PROPER LOCK-OUT/TAG-OUT PROCEDURES TO ENSURE THE PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH IS OPENED PRIOR TO PERFORMING WORK ON THIS DEVICE."
 - 20 GEC IS RUN INSIDE FERROUS CONDUIT. PER NEC 250.64(E), ENSURE BONDING AT THE ENTRANCE AND EXIT SO THAT THE CONDUIT AND ANY ENCLOSURES THAT THE GEC PASSES THROUGH ARE ELECTRICALLY CONTINUOUS.

PROJECT TITLE:
WASTEWATER TREATMENT SITE
500KWAC PHOTOVOLTAIC SYSTEM
 1100 E TREATMENT PLANT RD.
 PRESCOTT VALLEY, AZ 86314

ENGINEER'S STAMP
N-LL BOND SERVICE
DISCONNECT SWITCH

SMARTENERGY
 50 MAIN STREET, SUITE #812
 WHITE PLAINS, NY 10606
 (914) 618-4788
 JOB NUMBER: XXXX

DATE	ISSUE	REVISIONS
10-JUNE-11	PLANDERK SUBMITTAL	
10-JUNE-11	CLIENT COMMENTS	
15-JUNE-11	CLIENT COMMENTS	
21-JUL-11	CLIENT COMMENTS	
05-AUG-11	APS COMMENTS	
08-AUG-11	APS COMMENTS	

DRAWN BY: NATHAN
 CHECKED BY: JHA
 APPROVED BY: JHA
 DOCUMENT DATE: 8/8/2011

SCALE:
 NTS

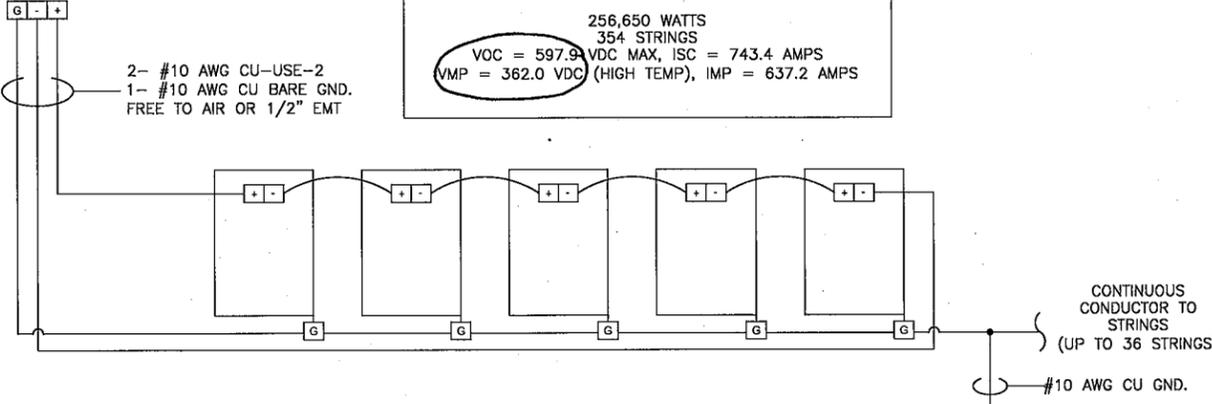
SHEET TITLE:
THREE LINE DIAGRAM (WWTs #1)

SHEET #:
 E.3.2

*** PLEASE INCORPORATE ALL NOTES/COMMENTS FROM ONE LINE**

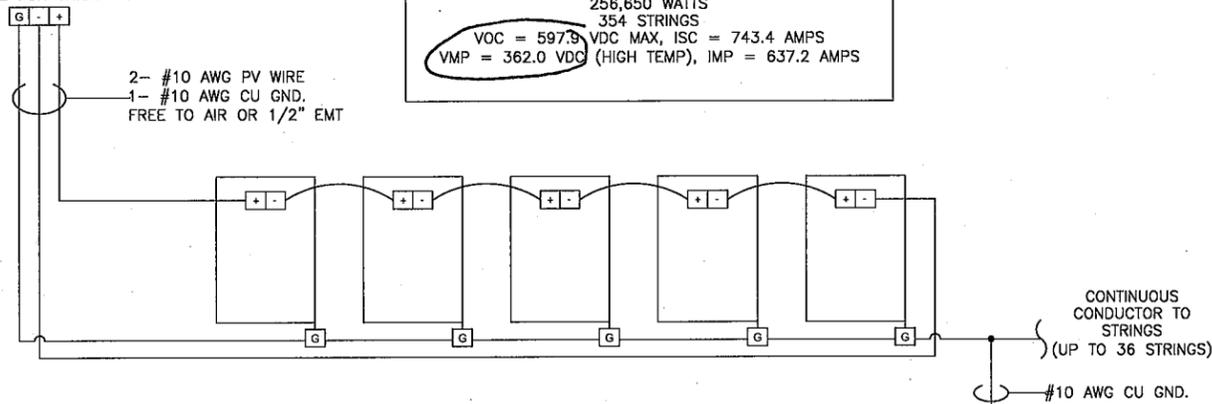
PHOTOVOLTAIC MODULE SPECIFICATION
SOLAR FRONTIER SF145-L 145 WATTS VOC = 109.0 VDC, ISC = 2.1 AMPS VMP = 77.0 VDC, IMP = 1.8 AMPS

POSITIVE PV STRINGS
5 MODULES IN STRING
(TYPICAL OF 354 STRINGS)
SEE E.3.2 FOR THREE LINE



GROUNDING ELECTRODES NEAR PV ARRAY PER NEC 690.74(d). THE RACK STRUCTURES CAN SERVE AS THE GROUNDING ELECTRODES IF THEY ARE GROUNDED PER NEC 250.52.

NEGATIVE PV STRINGS
5 MODULES IN STRING
(TYPICAL OF 354 STRINGS)
SEE E.3.2 FOR THREE LINE



GROUNDING ELECTRODES NEAR PV ARRAY PER NEC 690.74(d). THE RACK STRUCTURES CAN SERVE AS THE GROUNDING ELECTRODES IF THEY ARE GROUNDED PER NEC 250.52.

5x109 = 545
5x77 = 385
PLEASE VERIFY

ONE PHOTOVOLTAIC STRING
725 WATTS 5 MODULES IN STRING PER STRING Voc = 597.9 VDC MAX, Isc = 2.1 AMPS Vmp = 362.0 VDC (HIGH TEMP), Imp = 1.8 AMPS (TYPICAL OF 708 STRINGS)

- NOTES: (TYPICAL)
- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
 - GROUND WIRE MUST BE CONTINUOUS AND INSTALLED TO ALLOW FOR PANEL REMOVAL WITHOUT DISRUPTING CONTINUITY. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC 690-4(c)
 - FOLLOW MANUFACTURERS SUGGESTED INSTALLATION PRACTICES AND WIRING SPECIFICATIONS.
 - WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS.

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PRESCOTT VALLEY, AZ 86314

ENGINEER'S STAMP

SMARTENERGY
50 MAIN STREET, SUITE #812
WHITE PLAINS, NY 10606
(914) 618-4788
JOB NUMBER: XXX

#	DATE	ISSUE	REVISIONS
1	10-JUNE-11	PLANCHER SUBMITTAL	
2	15-JUNE-11	CLIENT COMMENTS	
3	21-JUL-11	CLIENT COMMENTS	
4	05-AUG-11	APR COMMENTS	
5	08-AUG-11	APR COMMENTS	

DRAWN BY: NATRON
CHECKED BY: JHA
APPROVED BY: JHA
DOCUMENT DATE: 8/9/2011

SCALE:
NTS

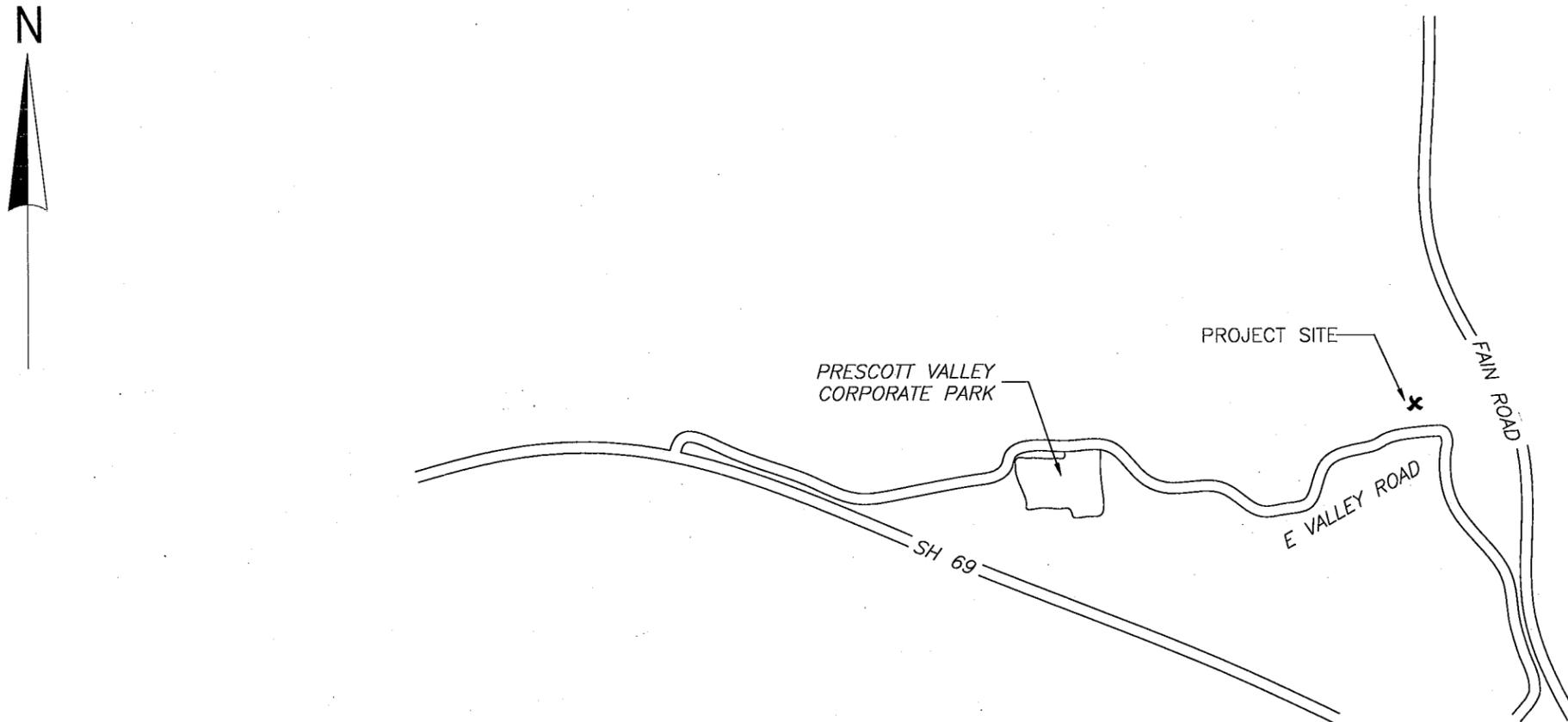
SHEET TITLE:
ARRAY
WIRING
DIAGRAM
(WWTS #1)

SHEET #:
E.3.1

PHOTOVOLTAIC SYSTEM - WASTEWATER TREATMENT SITE

1100 E TREATMENT PLANT RD., PRESCOTT VALLEY, AZ 86314

Vicinity Map:



Scope of Work:

SCOPE INCLUDES INSTALLATION OF PHOTOVOLTAIC GROUND MOUNT ARRAYS WITH RELATED HARDWARE AND ELECTRICAL EQUIPMENT.

ALL ELECTRICITY GENERATED IS FOR CONSUMPTION ON SITE.

SYSTEM ELECTRICAL CONNECTION TO MAIN ELECTRICAL SERVICE IS AT 480/277V SWITCHGEAR.

PERMIT SHALL INCLUDE LABOR OF CONSTRUCTING GROUND MOUNT ARRAYS, RUNNING OF ELECTRICAL CONDUITS, INSTALLATION OF NEW ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTION TO EXISTING BUILDING SERVICE.

NO BATTERIES REQUIRED AS PART OF THIS PROJECT SCOPE.

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ENGINEER'S STAMP

SMART ENERGY
 CONSULTING
 50 MAIN STREET, SUITE #812
 WHITE PLAINS, NY 10606
 (914) 618-4788
 JOB NUMBER: XXX

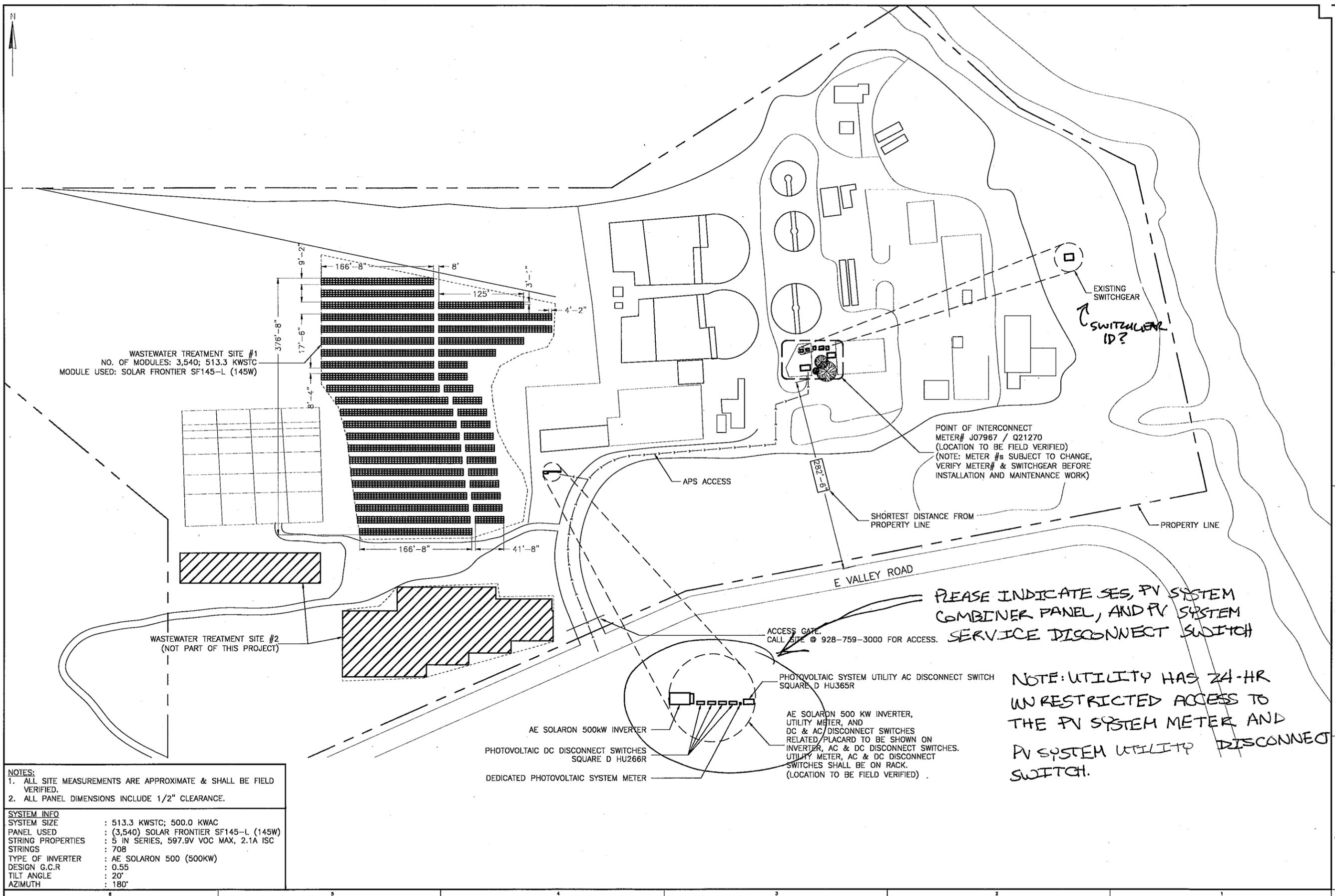
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4	21-JUL-11	CLIENT COMMENTS	
5	05-AUG-11	MS COMMENTS	
6	09-AUG-11	MS COMMENTS	

DRAWN BY: NATRON
 CHECKED BY: JHA
 APPROVED BY: JHA
 DOCUMENT DATE: 8/9/2011

SCALE:
 NTS

SHEET TITLE:
TITLE SHEET
(WWTS #1)

SHEET #:
 T-01



WASTEWATER TREATMENT SITE #1
 NO. OF MODULES: 3,540; 513.3 KWSTC
 MODULE USED: SOLAR FRONTIER SF145-L (145W)

WASTEWATER TREATMENT SITE #2
 (NOT PART OF THIS PROJECT)

NOTES:
 1. ALL SITE MEASUREMENTS ARE APPROXIMATE & SHALL BE FIELD VERIFIED.
 2. ALL PANEL DIMENSIONS INCLUDE 1/2" CLEARANCE.

SYSTEM INFO	
SYSTEM SIZE	: 513.3 KWSTC; 500.0 KWAC
PANEL USED	: (3,540) SOLAR FRONTIER SF145-L (145W)
STRING PROPERTIES	: 5 IN SERIES, 597.9V VOC MAX, 2.1A ISC
STRINGS	: 708
TYPE OF INVERTER	: AE SOLARON 500 (500KW)
DESIGN G.C.R	: 0.55
TILT ANGLE	: 20°
AZIMUTH	: 180°

POINT OF INTERCONNECT
 METER# J07967 / Q21270
 (LOCATION TO BE FIELD VERIFIED)
 (NOTE: METER #s SUBJECT TO CHANGE,
 VERIFY METER# & SWITCHGEAR BEFORE
 INSTALLATION AND MAINTENANCE WORK)

PLEASE INDICATE SES, PV SYSTEM
 COMBINER PANEL, AND PV SYSTEM
 SERVICE DISCONNECT SWITCH

NOTE: UTILITY HAS 24-HR
 UNRESTRICTED ACCESS TO
 THE PV SYSTEM METER AND
 PV SYSTEM UTILITY DISCONNECT
 SWITCH.

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SMARTENERGY
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5	05-AUG-11	APS COMMENTS
6	09-AUG-11	APS COMMENTS

DRAWN BY: NATRON
 CHECKED BY: JHA
 APPROVED BY: JHA
 DOCUMENT DATE: 8/9/2011

SCALE:
 1"=60'-0"

SHEET TITLE:
 ARRAY
 PLAN
 (WWTs #1)

SHEET #:
 A.2.1