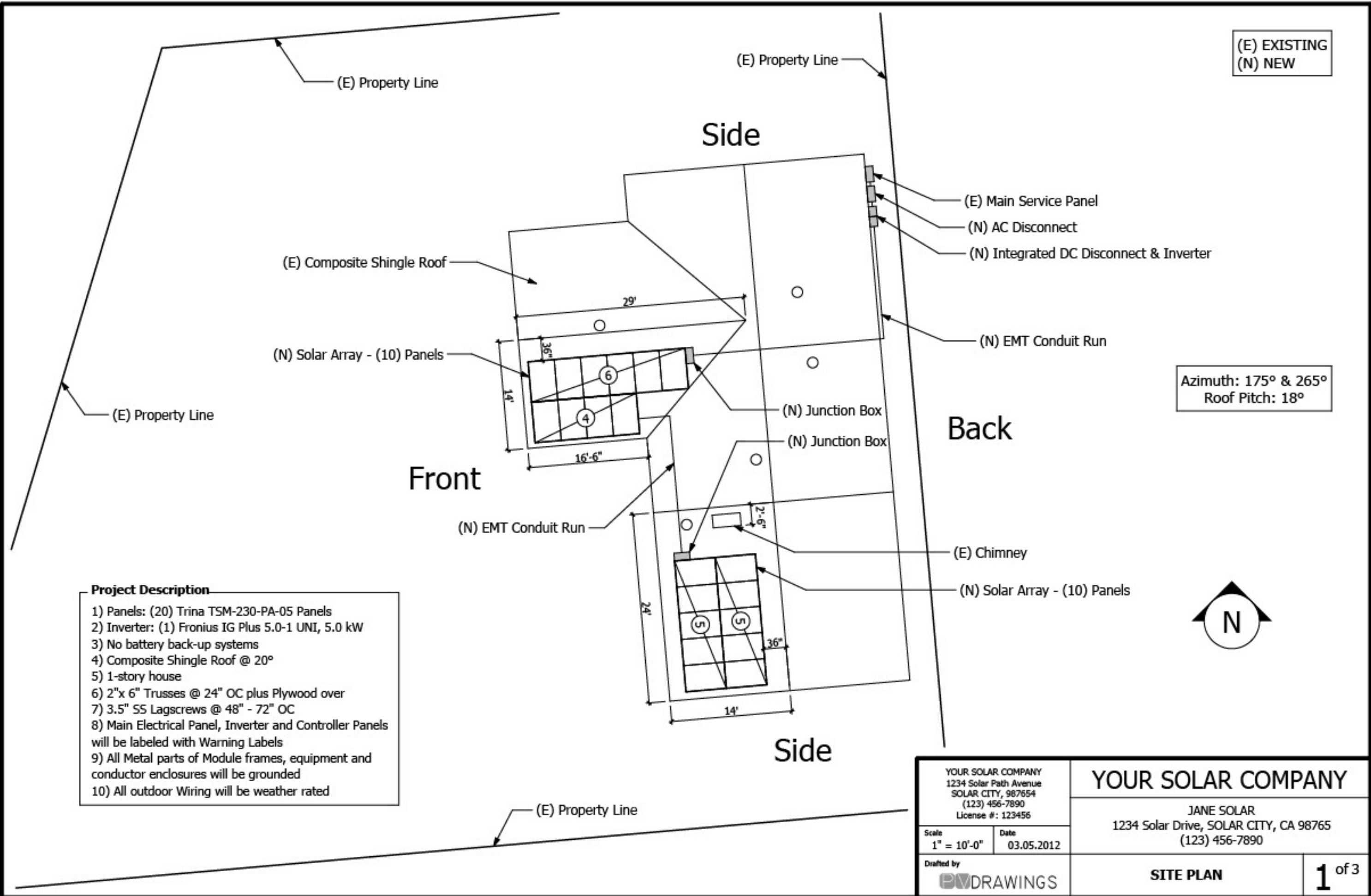


(E) EXISTING  
(N) NEW



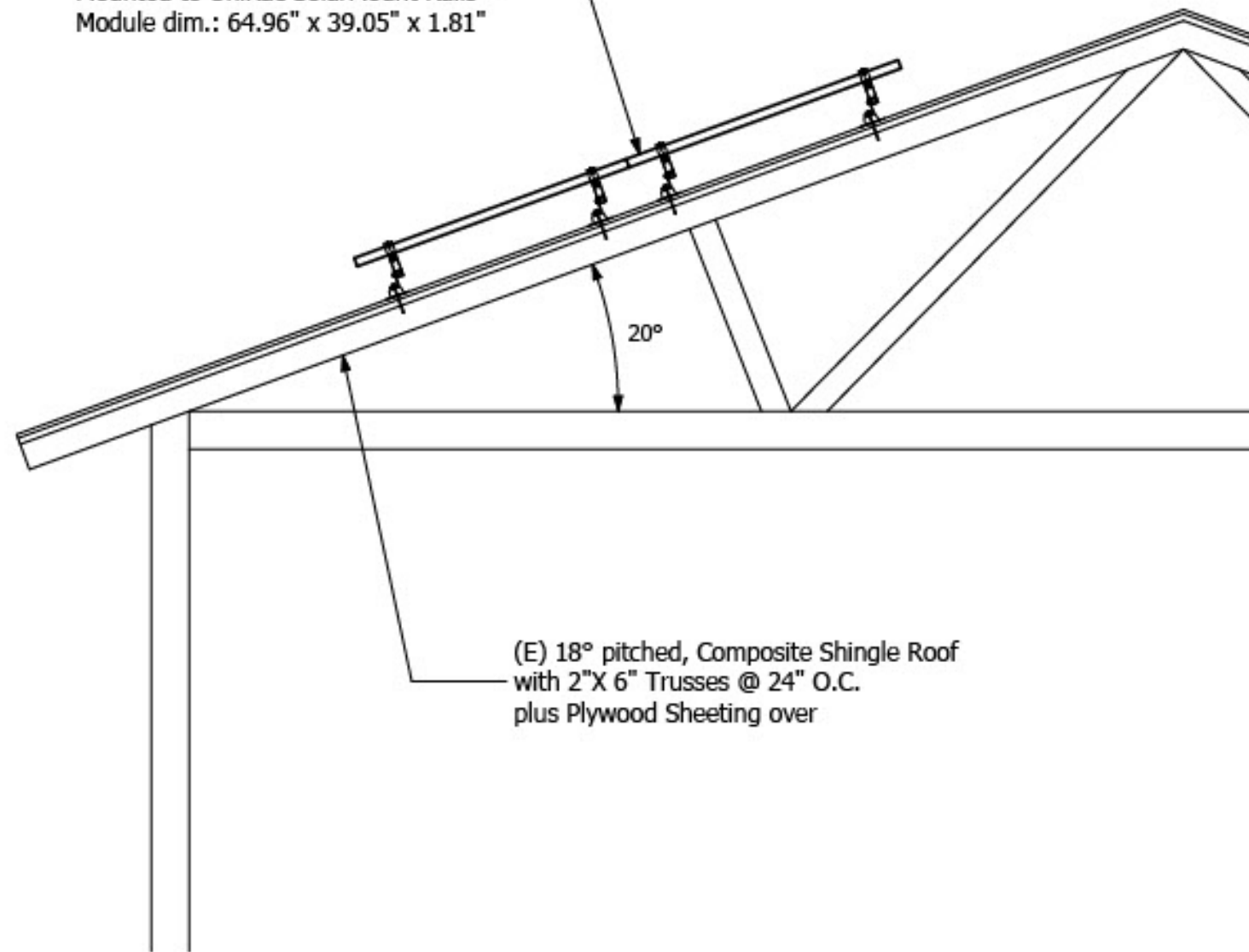
Azimuth: 175° & 265°  
Roof Pitch: 18°

**Project Description**

- 1) Panels: (20) Trina TSM-230-PA-05 Panels
- 2) Inverter: (1) Fronius IG Plus 5.0-1 UNI, 5.0 kW
- 3) No battery back-up systems
- 4) Composite Shingle Roof @ 20°
- 5) 1-story house
- 6) 2"x 6" Trusses @ 24" OC plus Plywood over
- 7) 3.5" SS Lagscrews @ 48" - 72" OC
- 8) Main Electrical Panel, Inverter and Controller Panels will be labeled with Warning Labels
- 9) All Metal parts of Module frames, equipment and conductor enclosures will be grounded
- 10) All outdoor Wiring will be weather rated

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Scale 1" = 10'-0"	Date 03.05.2012	<b>SITE PLAN</b>	
Drafted by 		<b>1</b> of 3	

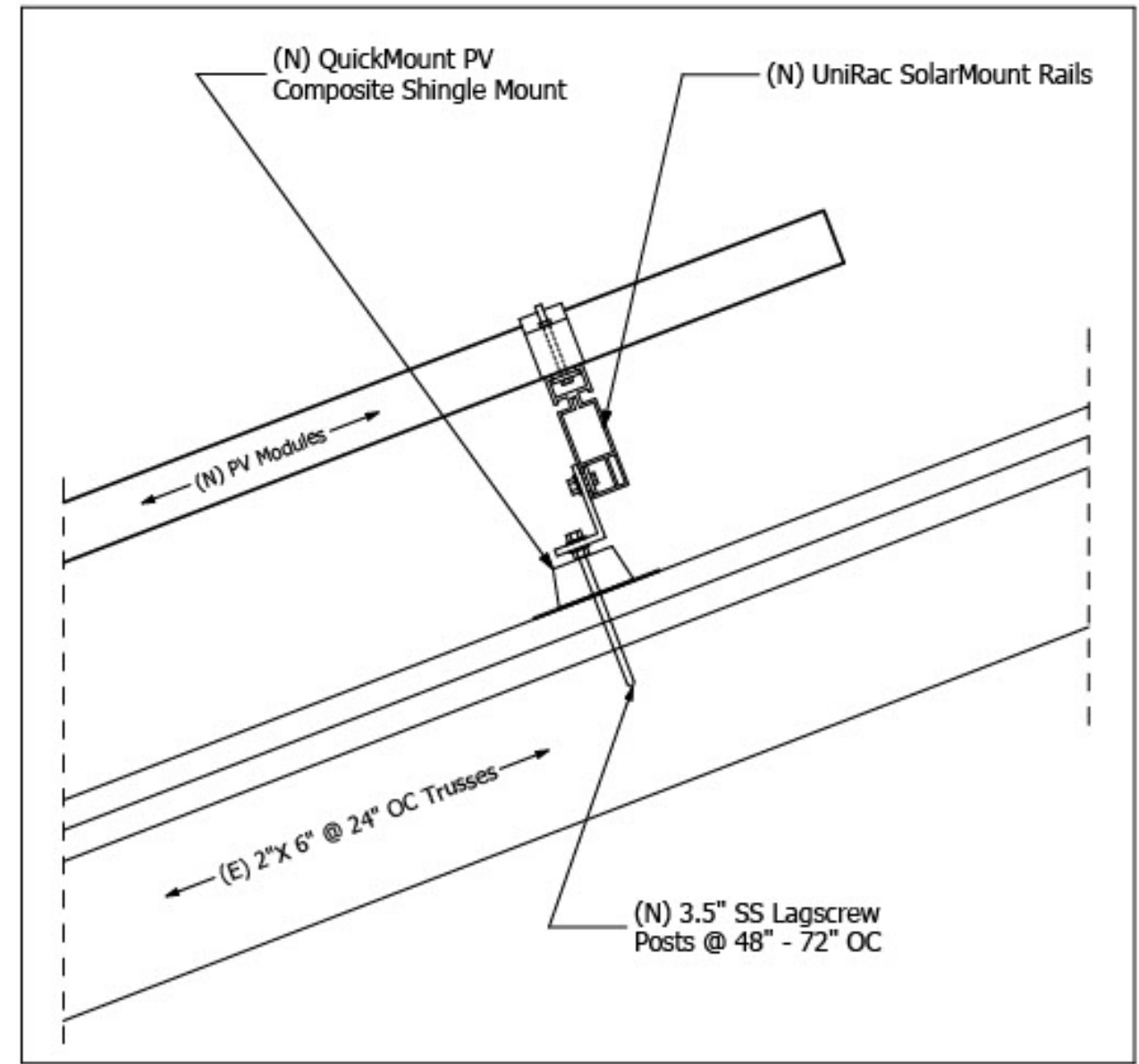
(N) (20) Trina TSM-230-PA-05 Panels  
 Mounted to UniRac SolarMount Rails  
 Module dim.: 64.96" x 39.05" x 1.81"



(E) 18° pitched, Composite Shingle Roof  
 with 2"X 6" Trusses @ 24" O.C.  
 plus Plywood Sheeting over

○ ROOF SECTION

(N) QuickMount PV  
 Composite Shingle Mount (N) UniRac SolarMount Rails



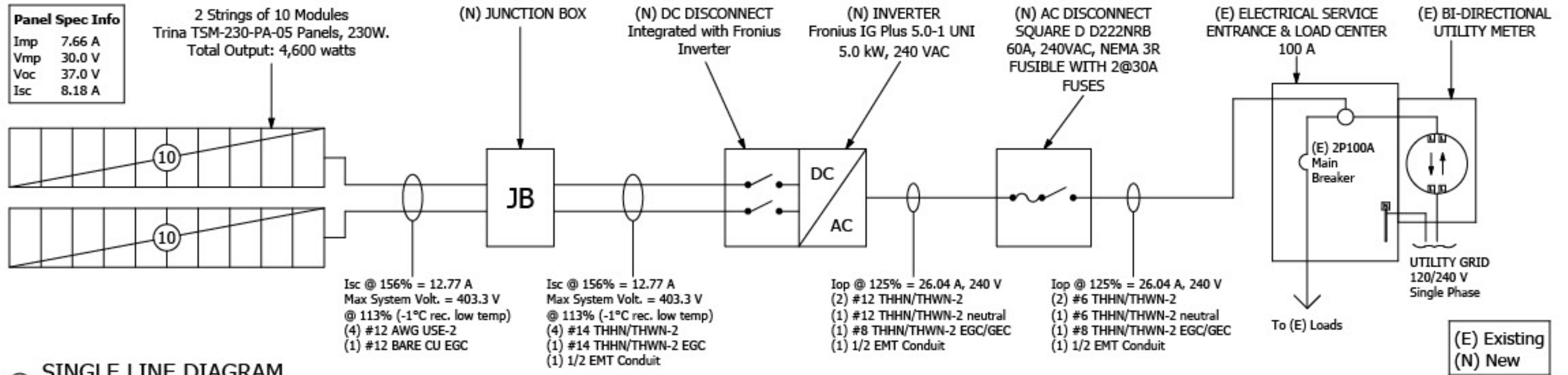
(N) PV Modules  
 (E) 2"X 6" @ 24" OC Trusses

(N) 3.5" SS Lagscrew  
 Posts @ 48" - 72" OC

○ MOUNTING DETAIL

(E) EXISTING  
 (N) NEW

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Scale 1/4" = 1'-0"	Date 03.05.2012	Drafted by 	
		<b>STRUCTURAL DRAWINGS</b>	<b>2</b> of 3



**SINGLE LINE DIAGRAM**

- 1 NEC 690.5(c)  
 PLACE THIS LABEL ON INVERTER(S) OR NEAR  
 GROUND-FAULT INDICATOR (ON INVERTER(S) U.O.N.)

**WARNING**  
 ELECTRIC SHOCK HAZARD  
 IF A GROUND FAULT IS INDICATED,  
 NORMALLY GROUNDED CONDUCTORS  
 MAY BE UNGROUNDED AND ENERGIZED

- 2 NEC 690.17  
 PLACE THIS LABEL ON ALL DISCONNECTING  
 MEANS WHERE ENERGIZED IN AN OPEN POSITION

**WARNING**  
 ELECTRIC SHOCK HAZARD  
 DO NOT TOUCH TERMINALS  
 TERMINALS ON BOTH THE LINE AND  
 LOAD SIDE MAY BE ENERGIZED IN THE  
 OPEN POSITION

- 3 NEC 690.64(B)(7)  
 PLACE THIS LABEL AT P.O.C. TO SERVICE DISTRIBUTION  
 EQUIPMENT (I.E. MAIN PANEL (AND SUBPANEL IF  
 APPLICABLE)) THIS LABEL IS ONLY NECESSARY WHEN  
 BREAKERS FEEDING PANEL EXCEEDS 100% OF BUSS RATING.

**WARNING**  
 INVERTER OUTPUT CONNECTION  
 DO NOT RELOCATE THIS  
 OVERCURRENT DEVICE

- 4 NEC 690.53 & NEC 690.14(C)(2)  
 PLACE THIS LABEL ON ALL PHOTOVOLTAIC DC  
 DISCONNECTING MEANS (ON INVERTER IF INTEGRATED DC  
 DISCONNECTS AND AT SEPARATE DC DISCONNECT IF  
 APPLICABLE)

**PHOTOVOLTAIC SYSTEM DISCONNECT**  
 RATED MAX POWER POINT CURRENT (IMP): 7.66 A  
 RATED MAX POWER POINT VOLTAGE (VMP): 300.0 V  
 MAX SYSTEM VOLTAGE (VOC): 403.3 V  
 SHORT CIRCUIT CURRENT (ISC): 8.18 A

- 5 NEC 690.54  
 PLACE THIS LABEL AT "INTERACTIVE POINT OF  
 INTERCONNECTION" (AT MAIN SERVICE PANEL AND  
 SUBPANEL IF APPLICABLE)

**INTERACTIVE PHOTOVOLTAIC POWER SOURCE**  
 RATED AC OUTPUT CURRENT (A): 20.83 A  
 NOMINAL OPERATING AC VOLTAGE (V): 240 V

**SINGLE LINE NOTES**

- The Inverter grounding electrode conductor is connected directly to the building grounding electrode or irreversibly connected to the building GEC
- All wire sizes are as indicated or larger
- All equipment is bonded by a mechanical means or by a grounding conductor
- All modules are grounded mechanically using WEEBS
- The system is grounded at the neutral buss in the main panel
- The system is grid-intertie only and has no batteries or ups

**LABEL NOTES**

All labels and markings shall be attached according to requirements by NEC and the local AHJ. The AHJ may have special label requirements beyond the scope of this document. This may encompass language including, but not limited to, that found in NEC articles 690.5 (c), 690.14 (c)(2), 690.17, 690.53, 690.35(f), 690.54, 690.64(b)(7) and 705.10

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Scale: - Date: 03.05.2012		JANE SOLAR 1234 Solar Drive, SOLAR CITY, CA 98765 (123) 456-7890	
Drafted by: PVDRAWINGS		<b>SINGLE LINE DIAGRAM &amp; LABELS</b>	
		<b>3 of 3</b>	