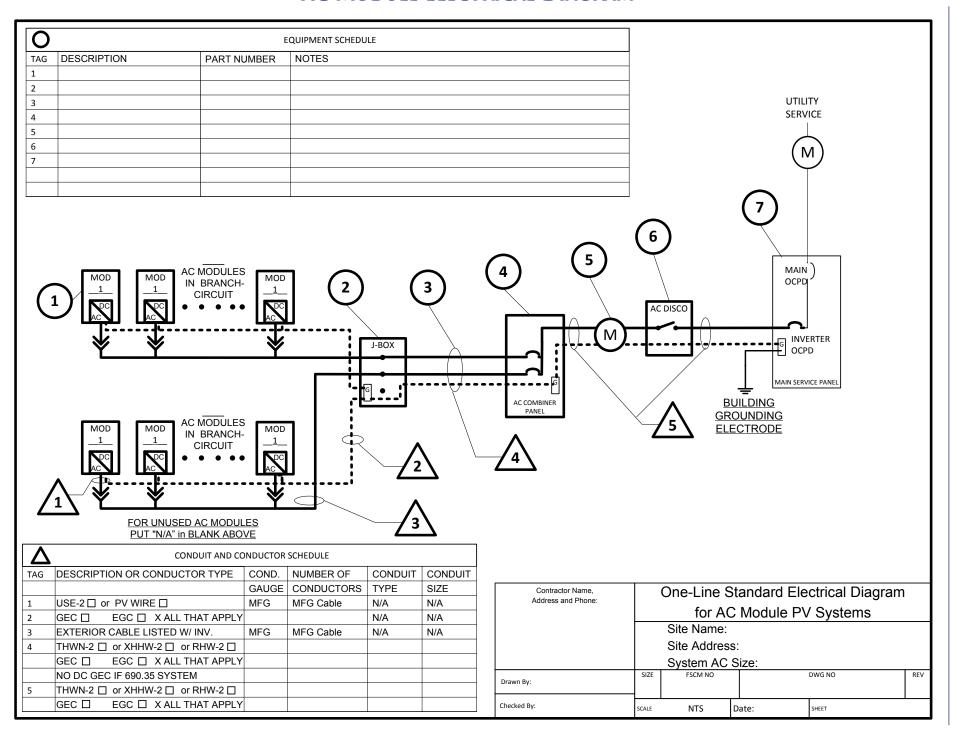
SYSTEMS
\mathbf{P}
SS FOR PV
ROCESS
PERMIT F
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Contractor Name, Address and Phone:	Site Plan					
radios and Phone.	for Small-Scale, Single-Phase PV Systems					
	Site Name Site Addre				•	
					s	
	System AC Size					
Drawn By:	SIZE	FSCM NO			DWG NO	REV
Checked By:	SCALE	NTS	D	ate:	SHEET	

AC MODULE ELECTRICAL DIAGRAM



PERMIT PROCESS FOR PV SYSTEMS

NOTES FOR AC MODULE ELECTRICAL DIAGRAM

NOTES FOR ALL DRAWINGSK

OCPD = OVERCURRENT PROTECTION DEVICE

NATIONAL ELECTRICAL CODE[®] REFERENCES SHOWN AS (NEC XXX.XX)

AC MODULE RATINGS (Guide Appendix C)

AC MODULE MAKE		
AC MODULE MODEL		
NOMINAL OPERATING		
NOMINAL OPERATING		
MAXIMUM AC POWER		
MAXIMUM AC CURREN		
MAXIMUM OCPD RATII		

SIGN FOR DC DISCONNECT

N/A since no dc wiring

SIGN FOR INVERTER OCPD AND AC DISCONNECT (IF USED)

SOLAR PV SYSTEM
AC POINT OF CONNECTION

AC OUTPUT CURRENT

NOMINAL AC VOLTAGE

THIS PANEL FED BY MULTIPLE SOURCES (UTILITY AND SOLAR)

NOTES FOR ARRAY CIRCUIT WIRING

- 1.) LOWEST EXPECT AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP ____°C
- 2.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMPERATURE ___°C
- 2.) 2009 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED $47^{\circ}\mathrm{C}$ IN THE UNITED STATES (PALM SPRINGS, CA IS $44.1^{\circ}\mathrm{C}$). FOR 6 OR LESS CURRENT-CARRYING CONDUCTORS IN ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF $47^{\circ}\mathrm{C}$ OR LESS (ALL OF UNITED STATES),
- a) 12 AWG, 90° C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR AC MODULES INVERTER OUTPUT CIRCUITS WITH 12 AMPS OR LESS WHEN PROTECTED BY A 15-AMP OR SMALLER OCPD.
- b) 10 AWG, 90° C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR AC MODULES INVERTER OUTPUT CIRCUITS WITH 16 AMPS OR LESS WHEN PROTECTED BY A 20-AMP OR SMALLER OCPD.

NOTES FOR INVERTER CIRCUITS

- 2) IF GENERATION METER REQUIRED, DOES THIS METER SOCKET MEET THE REQUIREMENT? YES \Box NO \Box N/A \Box
- 3) SIZE PHOTOVOLTAIC POWER SOURCE (DC) CONDUCTORS BASED ON MAX CURRENT ON NEC 690.53 SIGN OR OCPD RATING AT DISCONNECT (N/A)
- 4) SIZE INVERTER OUTPUT CIRCUIT (AC) CONDUCTORS ACCORDING TO INVERTER OCPD AMPERE RATING. (See Guide Section 9)
- 5) TOTAL OF ___INVERTER OUTPUT CIRCUIT OCPD(s), ONE FOR EACH AC MODULE CIRCUIT. DOES TOTAL SUPPLY BREAKERS COMPLY WITH 120% BUSBAR EXCEPTION IN 690.64(B)(2)(a)? YES ☐ NO ☐

Contractor Name, Address and Phone:	Notes for One-Line Standard Electrical					
	Diagram for Single-Phase PV Systems					
Site Name:						
	Site Address:					
	System AC Size:					
Drawn By: Bill	SIZE	FSCM NO			DWG NO	REV
Checked By: Ted	SCALE	NTS	Date:		SHEET	