Solar PV Permit Process

A Guide for your Project . . .

INTRODUCTION

The information in this guide is intended to make the permit process a rewarding experience.

The issuance of a permit for a small commercial or residential PV project will be accomplished in a timely manner, providing that the applicant follows the procedures outlined in this guide.

Required Submittal Documents

- Completed Permit Application
- Site Plan indicating location of the PV components (See sample Site Plan)
- Electrical diagram indicating all components (See standard electrical diagram)
- Manufacturer's specification sheets and installation instructions for all major components.
- Structural information

Site Plan Requirements

See sample site plan

- Indicate solar modules in relation to existing structure
- Indicate existing roof configuration (Hips, valleys, gables etc.)
- Indicate all major electrical components (Junction boxes, conductors, race-ways, inverter, combiner etc.)

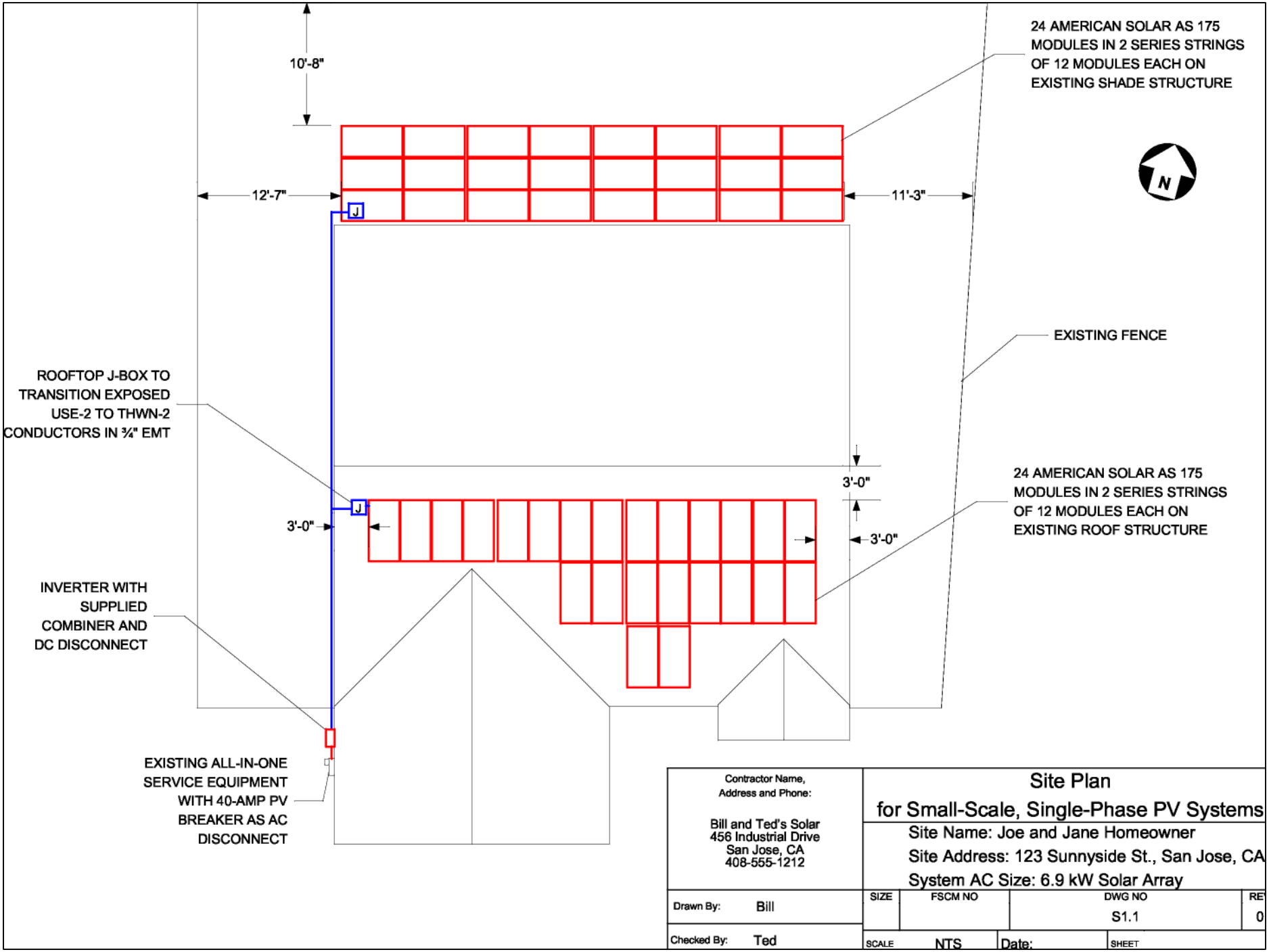
Electrical Diagram Requirements

See Sample One-Line Electrical Diagram

- Complete equipment schedule
- Complete conduit and conductor schedule
- Indicate number of modules in each series source circuit

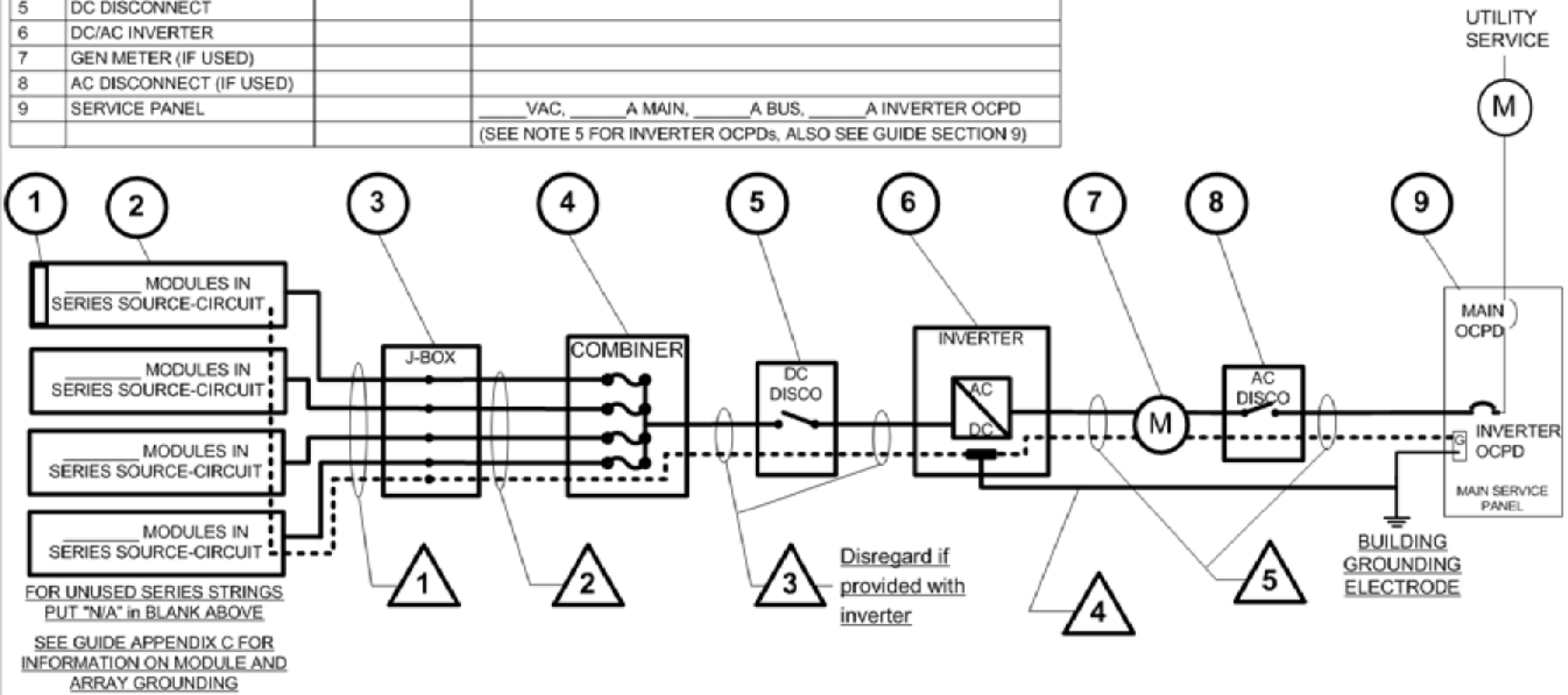
Structural Requirements

- Describe existing roof pitch, rafter spacing, engineered truss system or conventional framed system
- Describe existing roof covering (Asphalt shingles-how many layers, tile-weight or other type covering)
- Provide information regarding mounting hardware



Contractor Name, Address and Phone: Bill and Ted's Solar 456 Industrial Drive San Jose, CA 408-555-1212	Site Plan for Small-Scale, Single-Phase PV Systems Site Name: Joe and Jane Homeowner Site Address: 123 Sunnyside St., San Jose, CA System AC Size: 6.9 kW Solar Array
Drawn By: Bill Checked By: Ted	SIZE: FSCM NO: DWG NO: S1.1 REV: 0 SCALE: NTS Date: SHEET:

TAG	DESCRIPTION	PART NUMBER	NOTES
1	SOLAR PV MODULE		
2	PV ARRAY		
3	J-BOX (IF USED)		
4	COMBINER (IF USED)		
5	DC DISCONNECT		
6	DC/AC INVERTER		
7	GEN METER (IF USED)		
8	AC DISCONNECT (IF USED)		
9	SERVICE PANEL		_____VAC, _____A MAIN, _____A BUS, _____A INVERTER OCPD
			(SEE NOTE 5 FOR INVERTER OCPDs, ALSO SEE GUIDE SECTION 9)



△	CONDUIT AND CONDUCTOR SCHEDULE				
TAG	DESCRIPTION OR CONDUCTOR TYPE	COND. GAUGE	NUMBER OF CONDUCTORS	CONDUIT TYPE	CONDUIT SIZE
1	USE-2 ☐ or PV WIRE ☐			N/A	N/A
	BARE COPPER EQ. GRD. COND. (EGC)			N/A	N/A
2	THWN-2 ☐ or XHHW-2 ☐ or RHW-2 ☐				
3	THWN-2 ☐ or XHHW-2 ☐ or RHW-2 ☐				
	INSULATED EGC				
4	DC GROUNDING ELECTRODE COND.				
5	THWN-2 ☐ or XHHW-2 ☐ or RHW-2 ☐				
	INSULATED EGC				

Contractor Name, Address and Phone:

_____
_____
_____
_____

One-Line Standard Electrical Diagram for Small-Scale, Single-Phase PV Systems

Site Name: _____

Site Address: _____

System AC Size: _____

Drawn By:	SIZE	FSCM NO	DWG NO	REV
			E1.1	
Checked By:	SCALE NTS	Date:	SHEET	

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