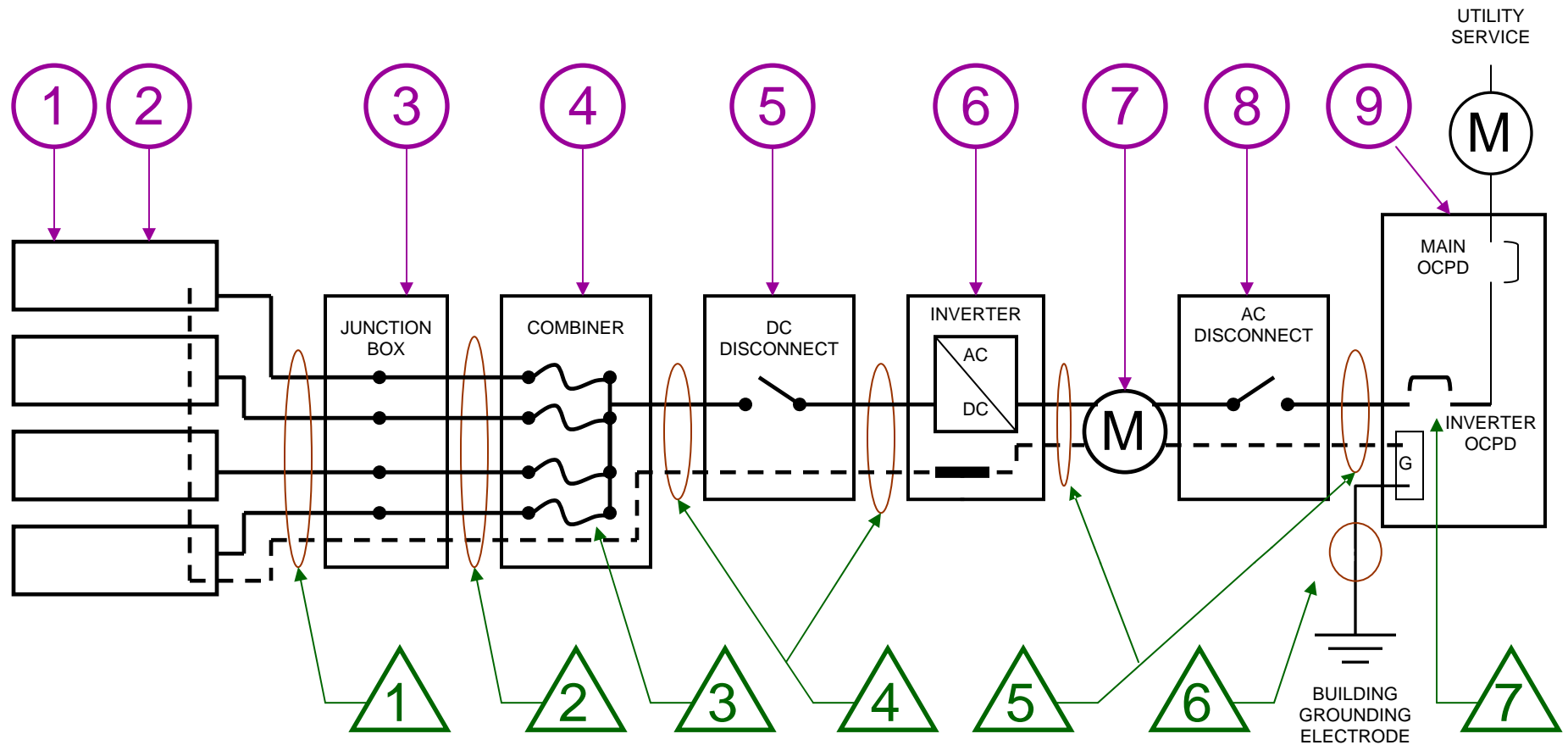




PRINCE WILLIAM COUNTY  
Department of Development Services – Building Development Division

**SOLAR ENERGY SYSTEMS**  
**SMALL, SINGLE INVERTER SYSTEM PLANS**

Figure - SMALL SINGLE INVERTER SYSTEM DETAIL



Site Address \_\_\_\_\_  
Prepared by \_\_\_\_\_  
Email \_\_\_\_\_  
Phone: \_\_\_\_\_ Date \_\_\_\_\_

○ EQUIPMENT SCHEDULE					
TAG	DESCRIPTION	MODEL NUMBER	NOTES		
1	SOLAR PV MODULE				
2	OPTIMIZER/DC-DC CONVERTER		MAX INPUT: _____VDC, _____ISC	MAX STRING WATTAGE _____	OUTPUT: _____VDC, _____ADC
3	J-BOX (IF USED)				
4	COMBINER				
5	DC DISCONNECT				
6	DC / AC CONVERTER		MAX INPUT: _____VDC, _____ADC, _____WATTS	MAX OUTPUT: _____VAC, _____A, _____WATTS	
7	GEN METER (IF USED)				
8	AC DISCONNECT (IF USED)		_____ VAC	_____ A Rated	
9	SERVICE PANEL		_____ VAC	_____ A Main	_____ A Bus _____ A Inverter OCPD

△ CONDUIT AND CONDUCTOR SCHEDULE					
TAG	DESCRIPTION OR CONDUCTOR TYPE	CONDUCTOR GAUGE	NUMBER OF CONDUCTORS	CONDUIT TYPE	CONDUIT SIZE
1	<input type="checkbox"/> USE-2 or <input type="checkbox"/> PV WIRE BARE COPPER EQ. GRD. COND. (EGC)			N/A	N/A
2	<input type="checkbox"/> THWN-2 or <input type="checkbox"/> XHHW-2 or <input type="checkbox"/> RHW-2 INSULATED EGC				
3	ARRAY OCP _____AMPS			N/A	N/A
4	<input type="checkbox"/> THWN-2 or <input type="checkbox"/> XHHW-2 or <input type="checkbox"/> RHW-2 INSULATED EGC				
5	<input type="checkbox"/> THWN-2 or <input type="checkbox"/> XHHW-2 or <input type="checkbox"/> RHW-2 INSULATED EGC				
6	GROUNDING ELECTRODE COND.				
7	SOLAR BACK-FED OCP _____AMPS			N/A	N/A

NOTES	
1	All labels will be placed in accordance with NEC 690 and 705.
2	Additional labeling is required; see the <a href="#">Solar Energy Systems Plan Submission and Inspection Guidelines</a> for details.
3	The sum of all supply breakers feeding a busbar / conductor cannot exceed 120% of the busbar / conductor rating.
4	Interconnection within the main panel shall be located at the opposite end of the main breaker.