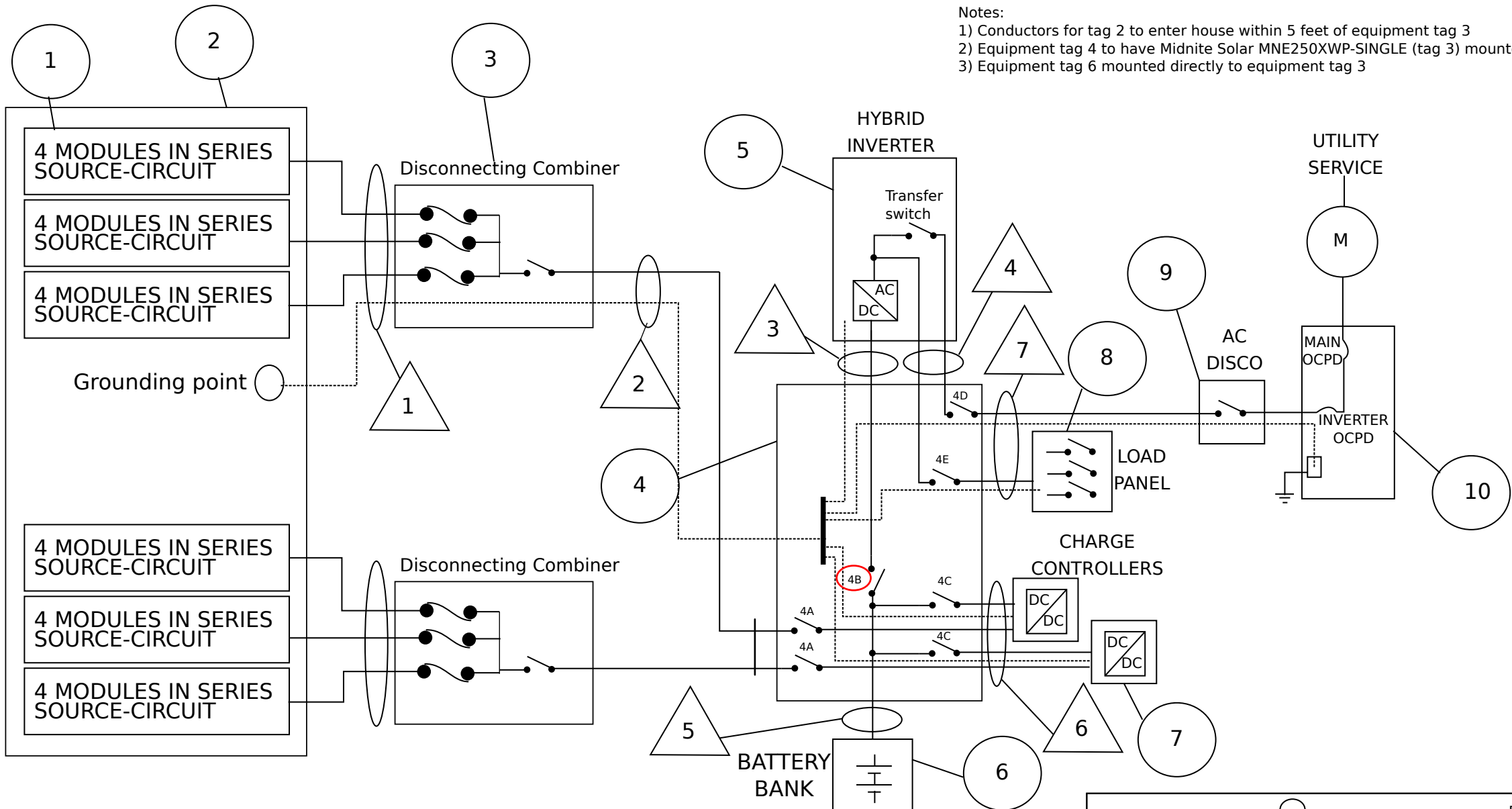


Notes:

- 1) Conductors for tag 2 to enter house within 5 feet of equipment tag 3
- 2) Equipment tag 4 to have Midnite Solar MNE250XWP-SINGLE (tag 3) mounted directly to it, following manufacturer's directions
- 3) Equipment tag 6 mounted directly to equipment tag 3



DISAPPROVED

08/24/2020 7:52:14 AM

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Conduit and Conductor Schedule						
Tag	Description or Conductor Type	Cond Gauge	No. of Cond.	Conduit Type	Conduit Size	Max Circuit Voltage
1	PV Wire Bare Copper EQ Grd. Cond.	12 10	2 1	NA	NA	250 VDC
2	THWN-2 Note: Conduit shared between arrays) Bare Copper EQ Grd. Cond	8 10	2 1	Sched. 40 PVC	2"	250 VDC
3	Bus bar, part of MNE250XWP-SINGLE Bare Copper EQ Grd. Cond	10	2 1	Direct Mount	NA	48 VDC
4	THWN-3 Bare Copper EQ Grd. Cond	6 10	3 1	Direct Mount	NA	120/240 VAC
5	MTW	4/0	2	NA	NA	48 VDC
6	THHN-2 Bare Coppe EQ Grd. Cond	8 10	2 2	Direct Mount	NA	250 VDC
7	2-2-2-4 Al Ser (existing)	2	2	Self Jacketed	NA	120/240 VAC

Equipment Schedule		
Tag	Part Number	Notes
1	Heliene 72M-360	
2	Ironridge XR1000, ground mount	Array grounding per XR1000 installation instructions
3	Midnite Solar MNPV6-DISCO, 3x MNEPV15-300	
4	MNE250XWP-SINGLE	
4A	Midnite Solar MNEPV50-300	50A, 300V, DC breaker
34	Midnite Solar MNEDC250	250A, 125V DC Breaker
4C	Midnite Solar MNEDC70	70A, 150V DC Breaker
4D	Midnite Solar MNEAC50-2P	50A, 120V, 2 Pole AC breaker
4E	Midnite Solar MNEAC50-2P	50A, 120V, 2 Pole AC Breaker
5	Schneider Electric XW+ 6848 NA	6.8kW inverter, Switch shown is internal transfer switch, 60A rating
6	4x 12V 200Ah SLA Batteries	Batteries in series to form 48V pack
7	Midnite Solar Classic 250	
8	Cutler Hammer CH32L225D	Existing Equipment, 220VAC, 60A
9	Square D DU221RB	
10	Cutler Hammer CHSUR42B200L2	Existing Equipment, 220VAC, 200A Main, 200A Bus, 60A Inverter OCPD