

EVERBRIGHT M3 PHOTO GUIDE

For Monitoring TPO Photo Checks

Mounting Foot & Attachment Waterproofing.

- We need to make sure we see clear and up-close photo of all types of attachments, and we need to see the sealant applied at well.

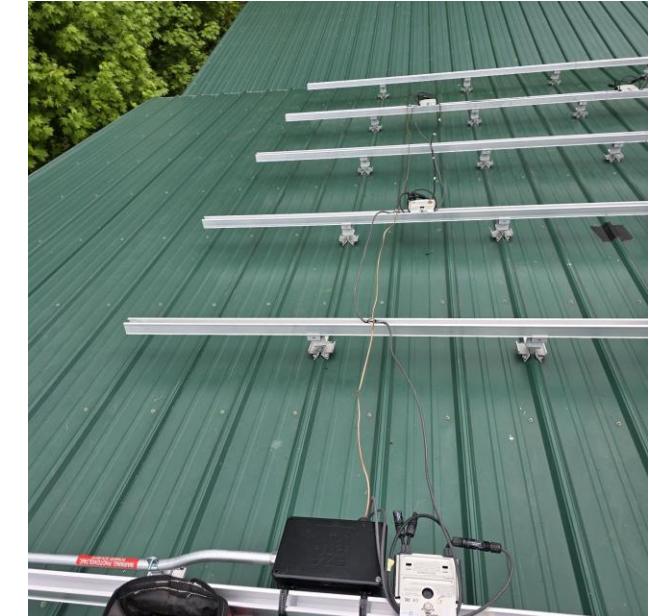
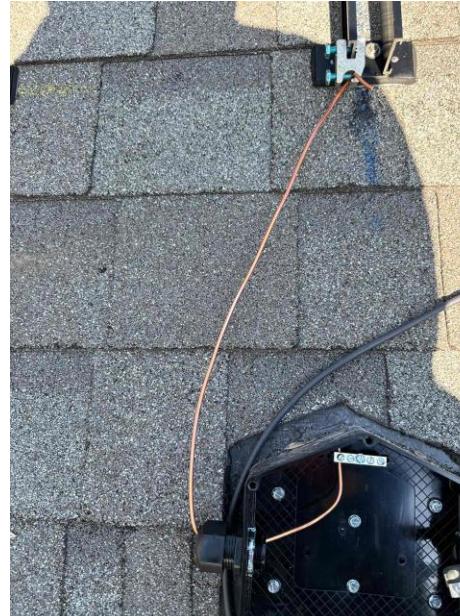


Mounting Foot & Attachment Waterproofing (continued).



Electrical Bonding Method For All Racks.

- Verify array/racking is grounded. Show Equipment Grounding Conductor (EGC) bonded. (Copper wire bonded to mounting structure for all arrays.) For Everbright we will need to see the copper wire exiting the junction box/conduit and being bonded to the rail/attachment.



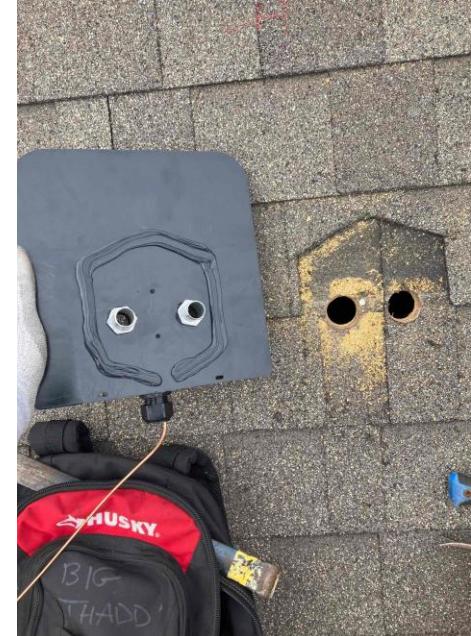
Wire Management Under/Behind Array

- No wires should be touching the roof under the array or dangling behind the array.



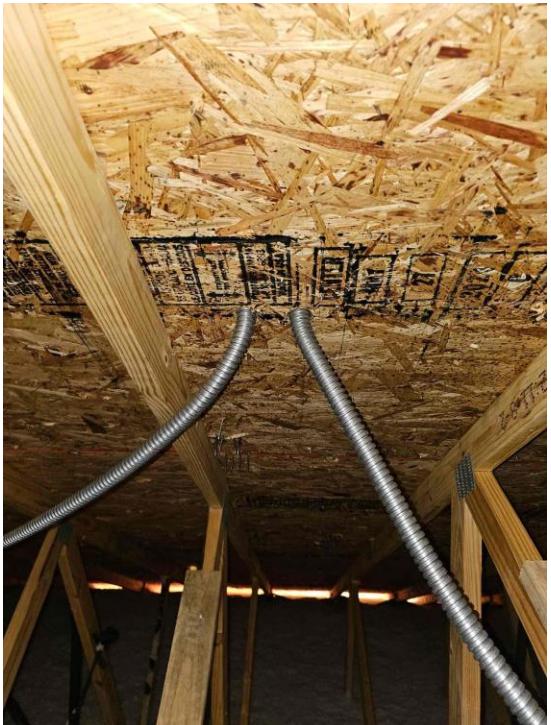
Attic Conduit Runs (Junction Box).

- Some projects will have an attic run. This is when the conduit enters the roof and attic via the junction box and will run throughout the attic to the equipment wall. We will need to see the holes cut and the sealant on the bottom of the junction box.



Attic Conduit Runs (Inside Attic).

- We will need photos of the entire conduit run inside the attic showing the entry point from the junction box as well as the run.



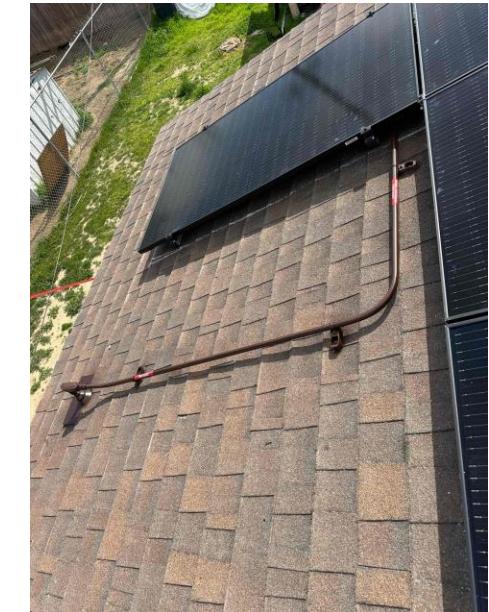
Attic Conduit Run (Sealant Around Conduit).

- We will need to see a clear photo of the sealant applied to the conduit leaving the soffit, ceiling (in garage) or side of the home.

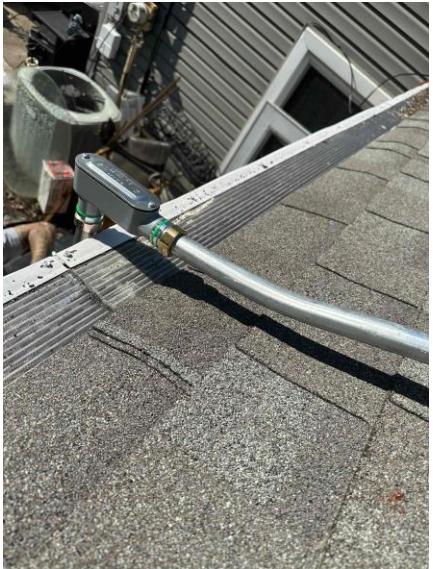


Conduit Penetration/Over The Edge Transition. (ROOF MOUNT ONLY)

- Show the top of the roof flashing (fully installed). Show sealant on underside of the conduit flashing. If a flashing is installed, these 4 photos are required.

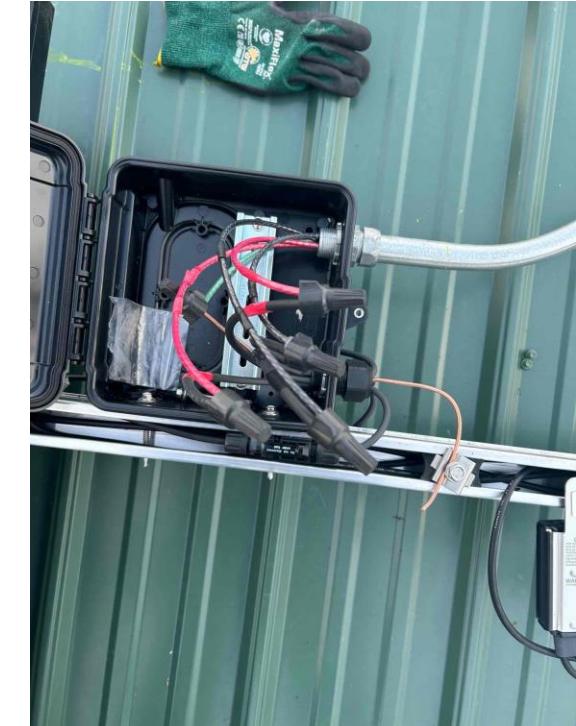
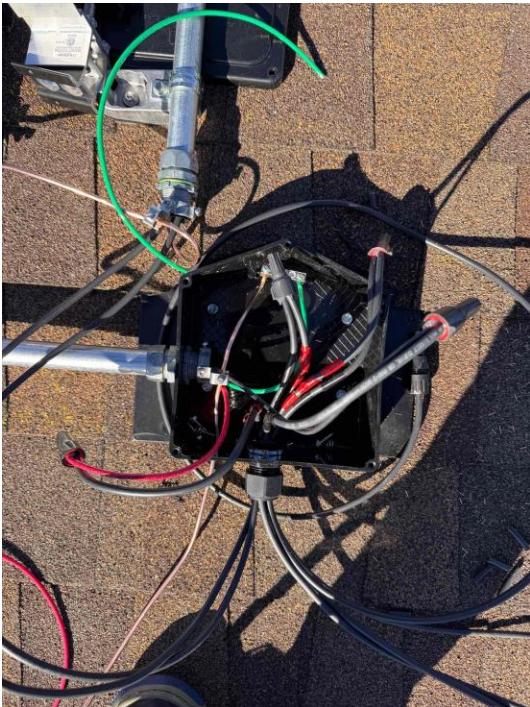


Conduit Penetration/Over The Edge Transition. (ROOF MOUNT ONLY) (Continued)



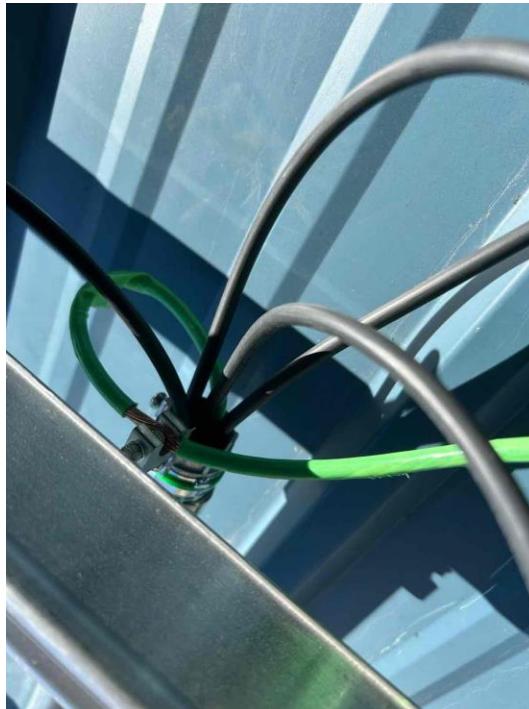
Roof Mounted Junction Box. (ROOF MOUNT ONLY)

- Cover must be open to see all wiring, bonding, fitting entering/exiting the box and all field made terminations.



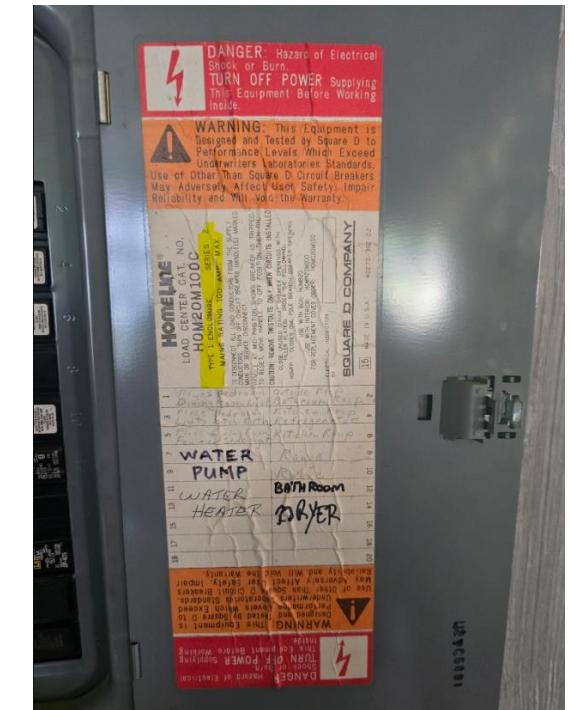
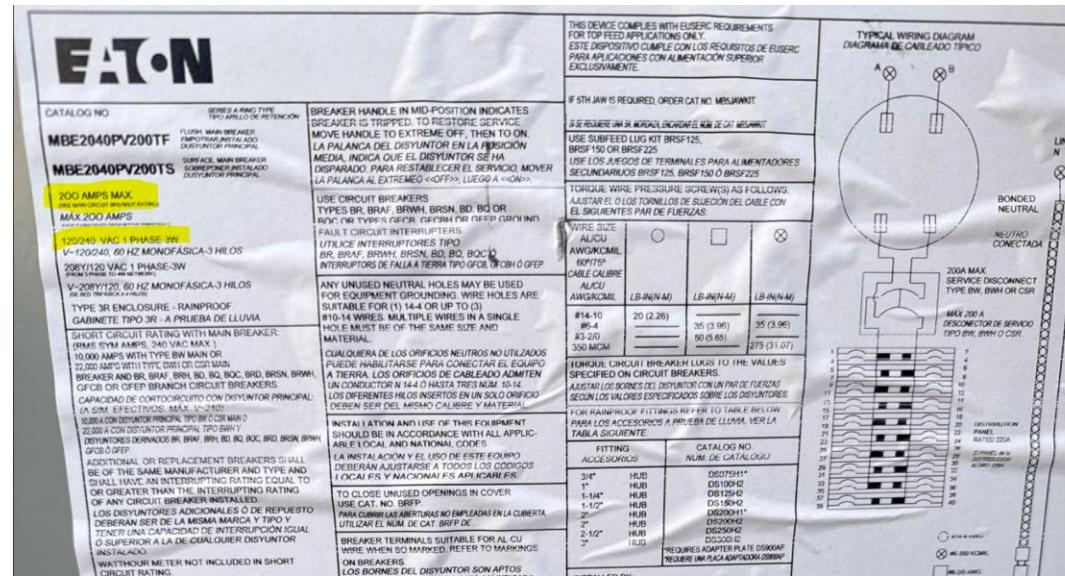
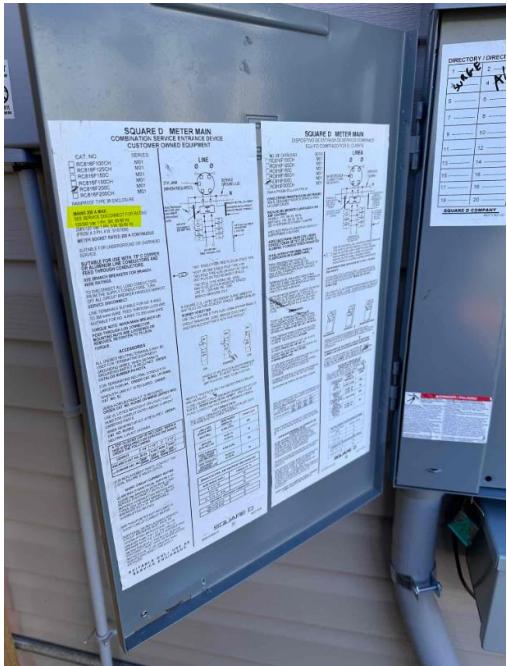
Roof Mounted Junction Box. (ROOF MOUNT ONLY)(Continued)

- Some projects will have no junction box and will be what is called PV direct. These photos will still be required. PV direct is the strings that give the system power from the modules, running directly from the panels to the inverter.



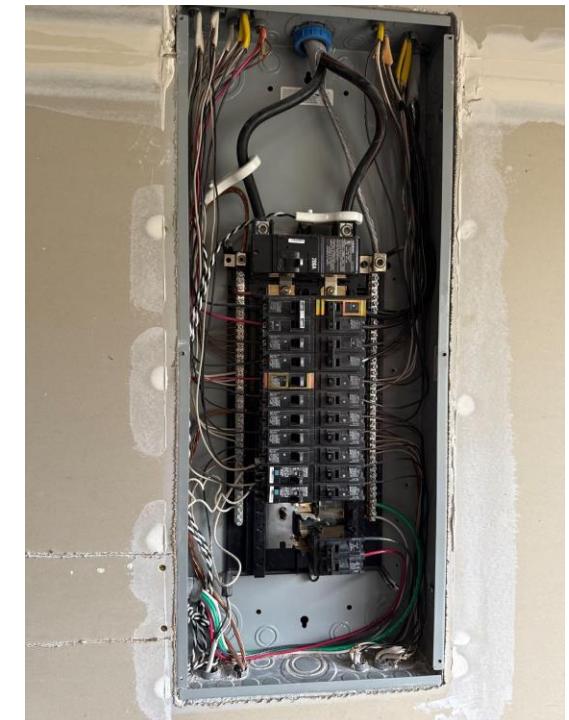
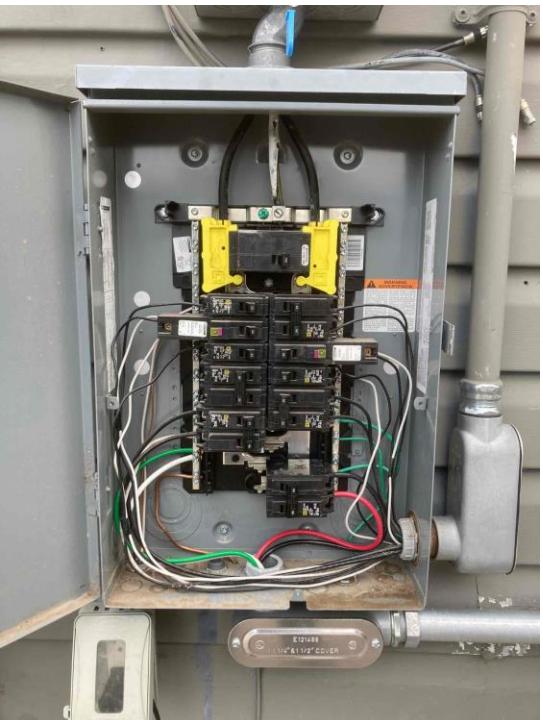
Main Service Panel Label

- We must be able to see a clear photo of the MSP's label that clearly states the rating of the panel and the max rating. If there was not an MPU completed, and the panel label photo is missing from the install SC then it may be in the site audit SC.



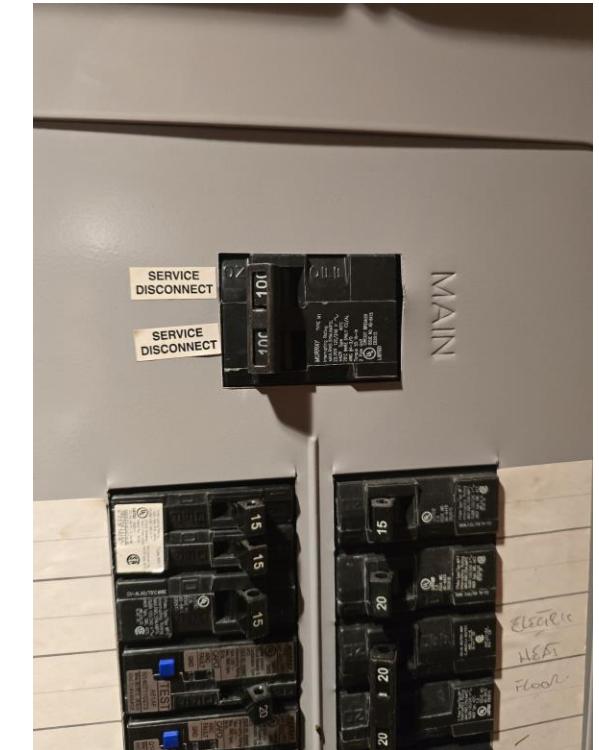
Main Service Panel (MSP) With Dead Front Cover Removed.

- We will need a pull back and up-close photo of the MSP showing all breakers, wiring and bonding. Breaker amperages must be visible, especially the main breaker.



Close-Up of Main Breaker. (Dead Front On & Off).

- We will need a close-up photo of the main breaker with the dead front cover off and on. We need to be able to read the breaker amperage.



Point of Interconnection (POI).

- We will need a clear, up-close photo of the type of point of interconnection used on site. A POI has three different types, a PV breaker tie in, line side tap or load side tap. A line side tap is installed before (above) the main breaker and load side taps are installed after (below) the breaker.

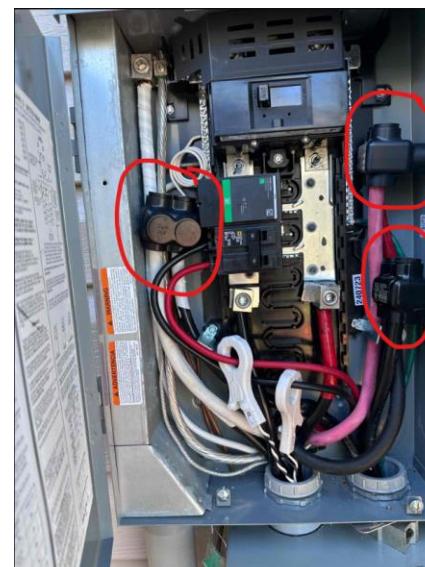
PV Breaker



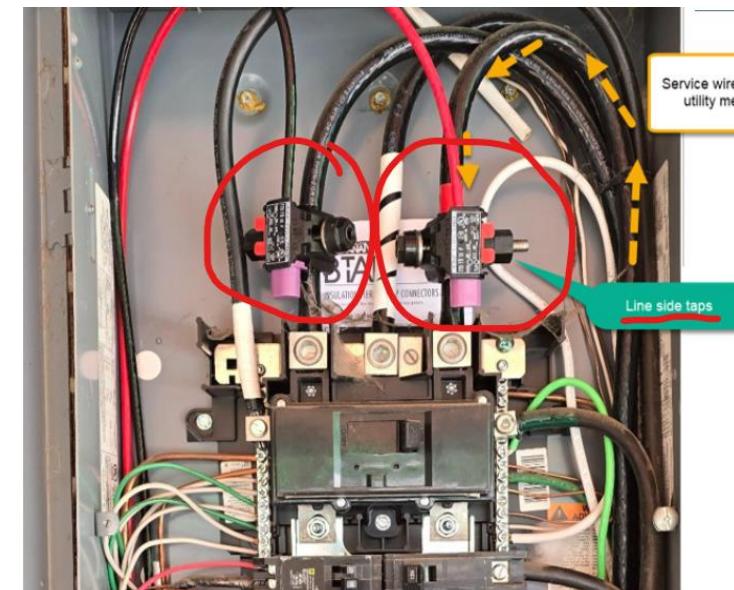
PV Breaker



Load Side Tap

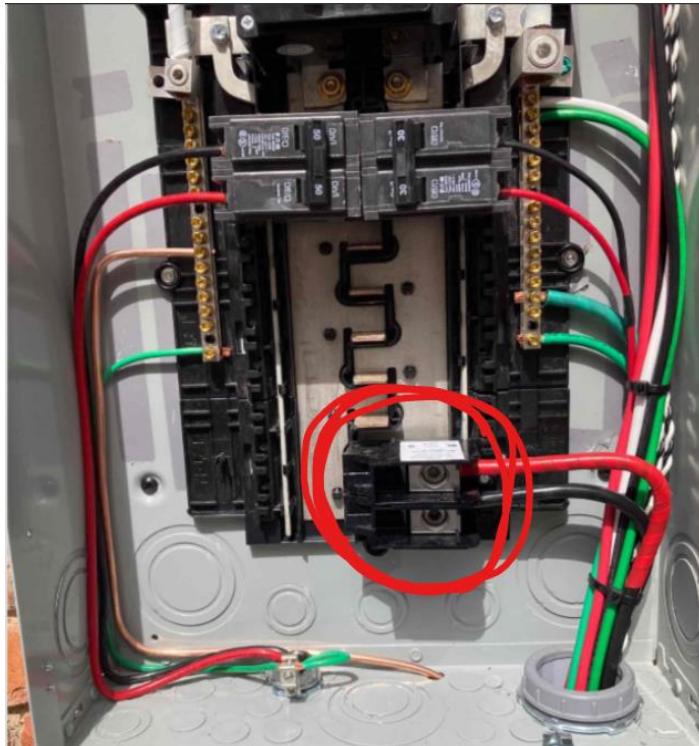
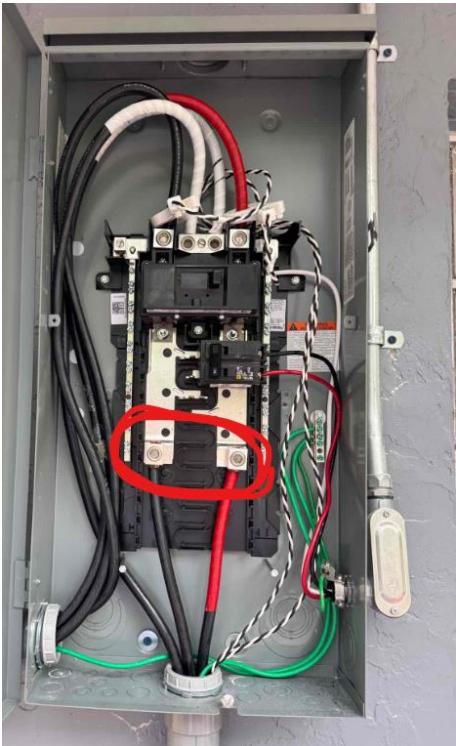


Line Side Tap



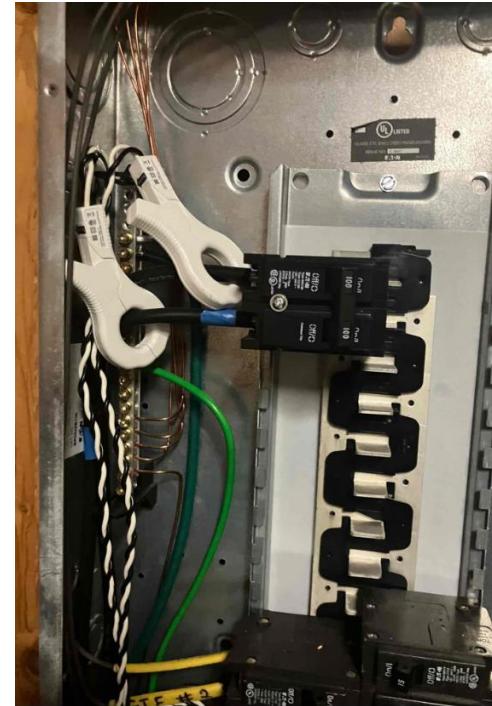
Feed Thru Lugs. (POI Continued).

- Feed thru lugs are another type of POI, they are installed in the MSP. They reduce the need for a breaker when feeding a subpanel. It will show on the plans as "Feed Thru Lugs". We will need to make sure to have a clear photo of those if installed. If you are not sure please message me.



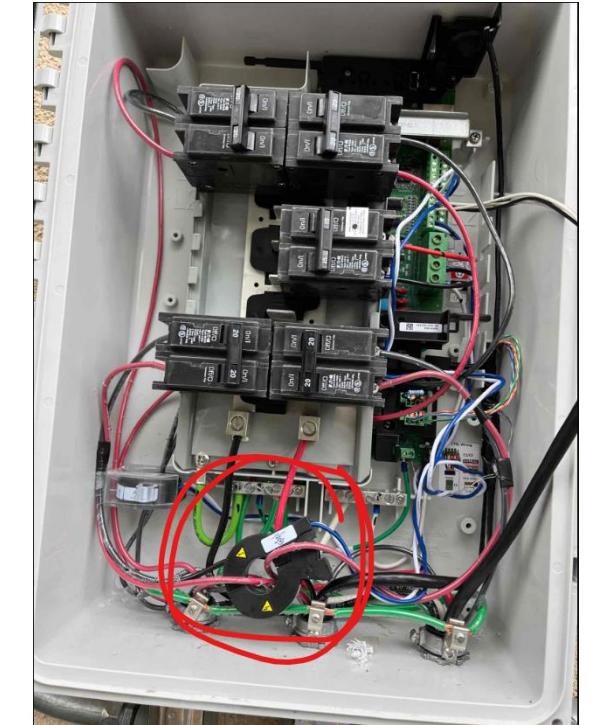
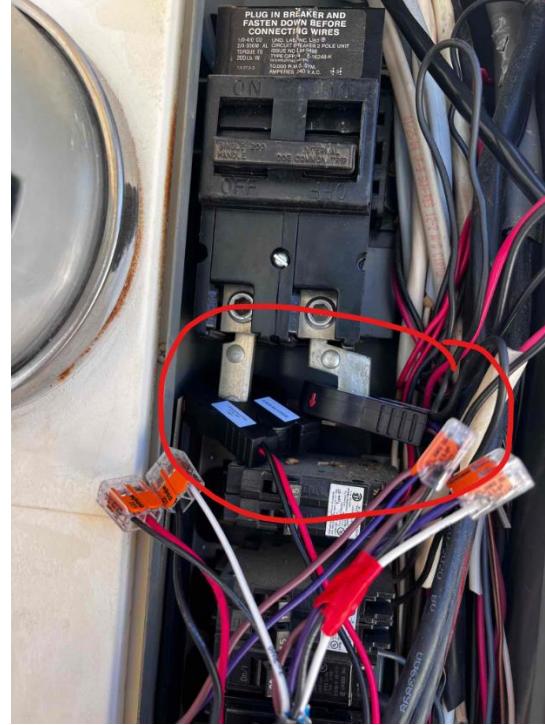
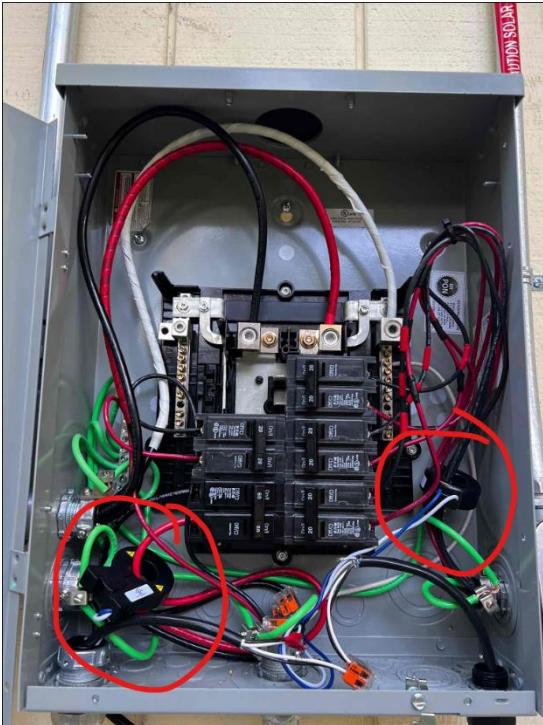
Consumption Monitoring CTs (SolarEdge).

- CTs are required to be installed for ALL Everbright projects. We need to see a clear photo of the CTs installed. CTs are typically installed in the main service panel, dedicated load center (if installed), and the Enphase combiner (see next slide).



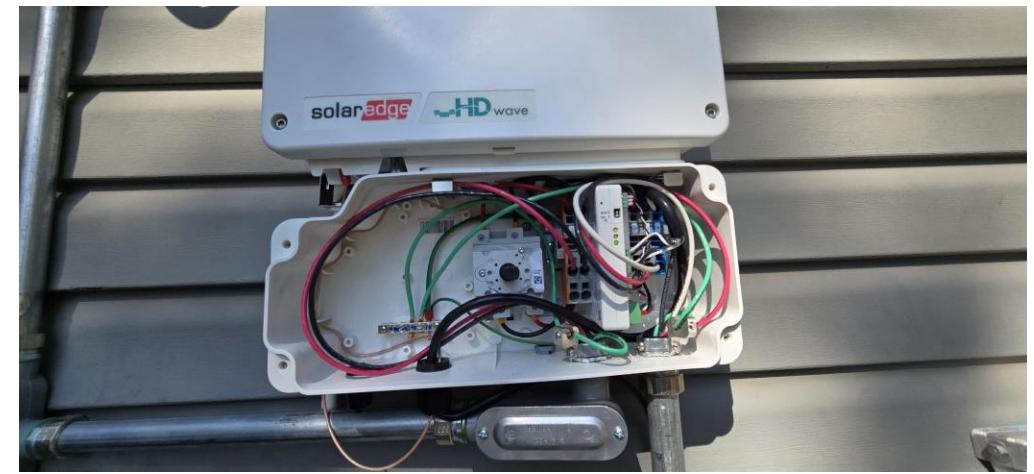
Consumption Monitoring CTs (Enphase).

- Enphase CTs will be black and most likely installed in the MSP, dedicated load center (if installed) and the Enphase combiner (last photo).



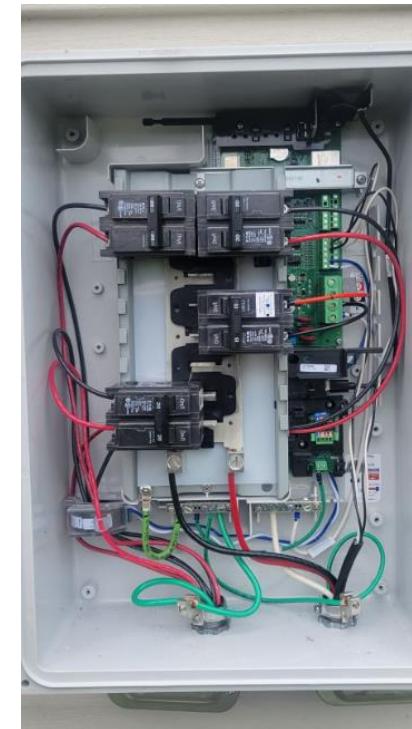
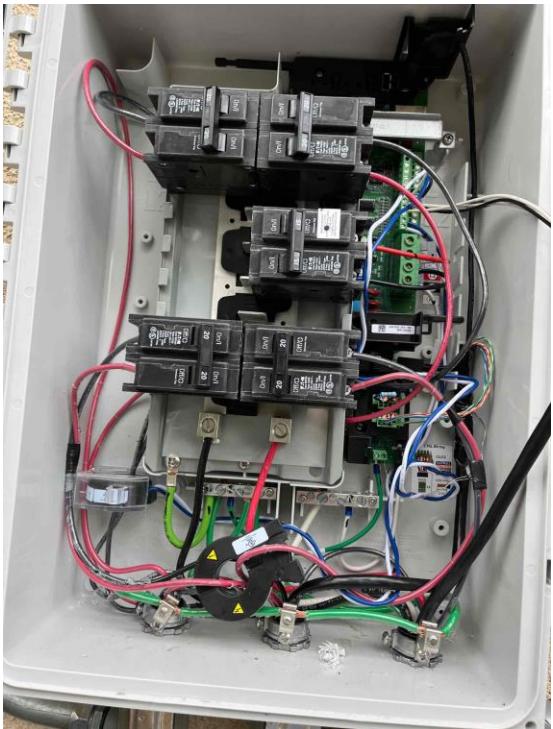
Monitoring Box Dead Front Removed (SolarEdge).

- We will need the dead front cover removed from the string wiring box on the bottom of the SolarEdge inverter. Any of these photos will be sufficient.



Monitoring Box Dead Front Removed (Enphase).

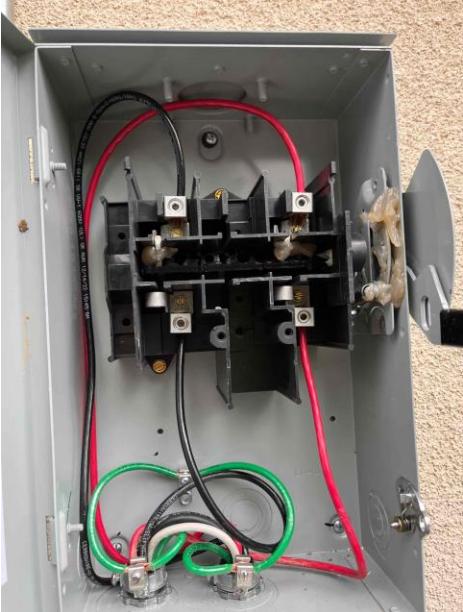
- We will need the dead front cover removed from the Enphase combiner to show all breaker, wiring, CTs (if installed) and bonding.



AC Disconnect with Cover Removed

- We will need to have the cover removed from the AC disconnect to show all fuses, wiring and bonding. Some AC disconnects will be unfused which means there were no fuses installed. If the AC disconnect is fused, we will need to be able to see the amperage of the fuses clearly.

UNFUSED



UNFUSED



FUSED



FUSED



Dedicated Load Center (If Installed).

- Not all projects will have a dedicated load center installed but when they are we will need to treat it like the MSP photos. We will need a clear pullback photo with the dead front cover removed to show all breakers, wiring and bonding. Sometimes these will have the PV breaker (POI) installed in them.

