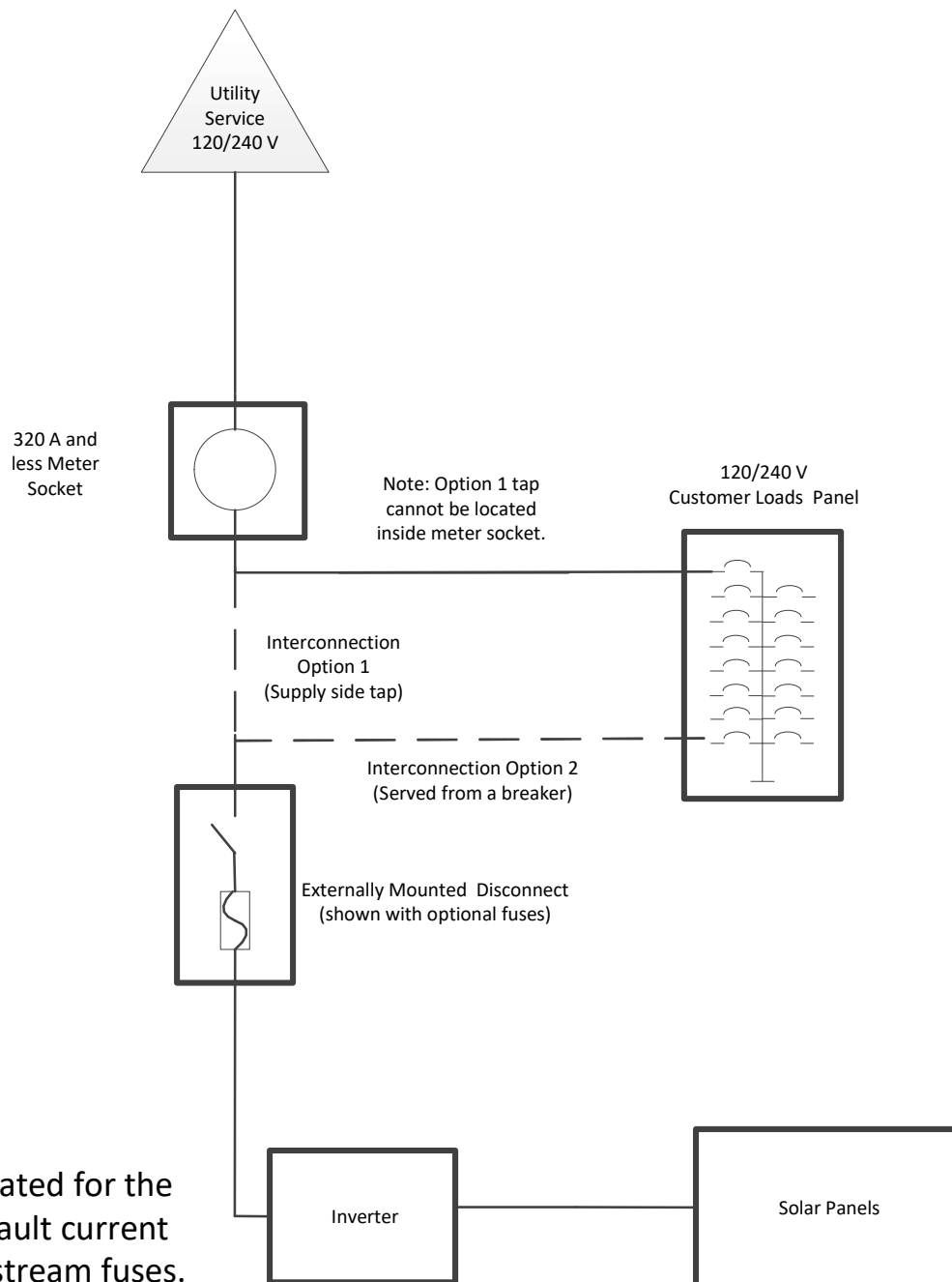


# **WPS overhead service - customer owned generation**

## **solar one-line diagrams**

- The inverter shall be UL 1741 compliant.
- The external disconnect shall provide a visible open between its contacts, have the ability to be locked in the open position and have 24/7 ready access for utility workers.
  - Breakers (including breakers integrated in metering equipment) and air conditioner “pull out” disconnects are not acceptable.
- If the PV Disconnect Switch is not located within sight of the Utility Meter, a placard must be placed at both the meter and disconnect switch indicating the location with respect to the other. In cases where a feeder serves generation on another building, both buildings require disconnects and placards.
- Please list the one-line diagram number (example: “O3”) that is referenced on the submitted one-line diagram.
- Example one-line diagrams show the minimum required alternating current disconnects.
- One-line diagram must meet the minimum requirements of PSC 119.10
- One-line diagram should be located near metering equipment and protected from the environment as a permanent placard or in a weather tight enclosure.
  - A one-line diagram must be posted onsite for energy storage systems or systems with multiple disconnect switches.
- All new service entrance equipment shall have a minimum short circuit current rating or ampere interrupting capacity (SCCR/AIC) of 22kA.
- Any load additions using supply side taps shall not exceed the service capacity.
- Customer owned generation will not be allowed for delta connected secondary services.
- Single phase inverters will not be allowed on three phase services.
- When an updated/new one-line is submitted for review that one-line shall take precedence over all previous one-lines and will need to comply with the current requirements.
- By installing customer owned generation the customer/installer agree to address any existing issues with metering/service equipment to meet current requirements.



Inverter shall be rated for the maximum input fault current allowed by the upstream fuses.

Note: One-line diagram must show the metering equipment and disconnect catalog numbers.

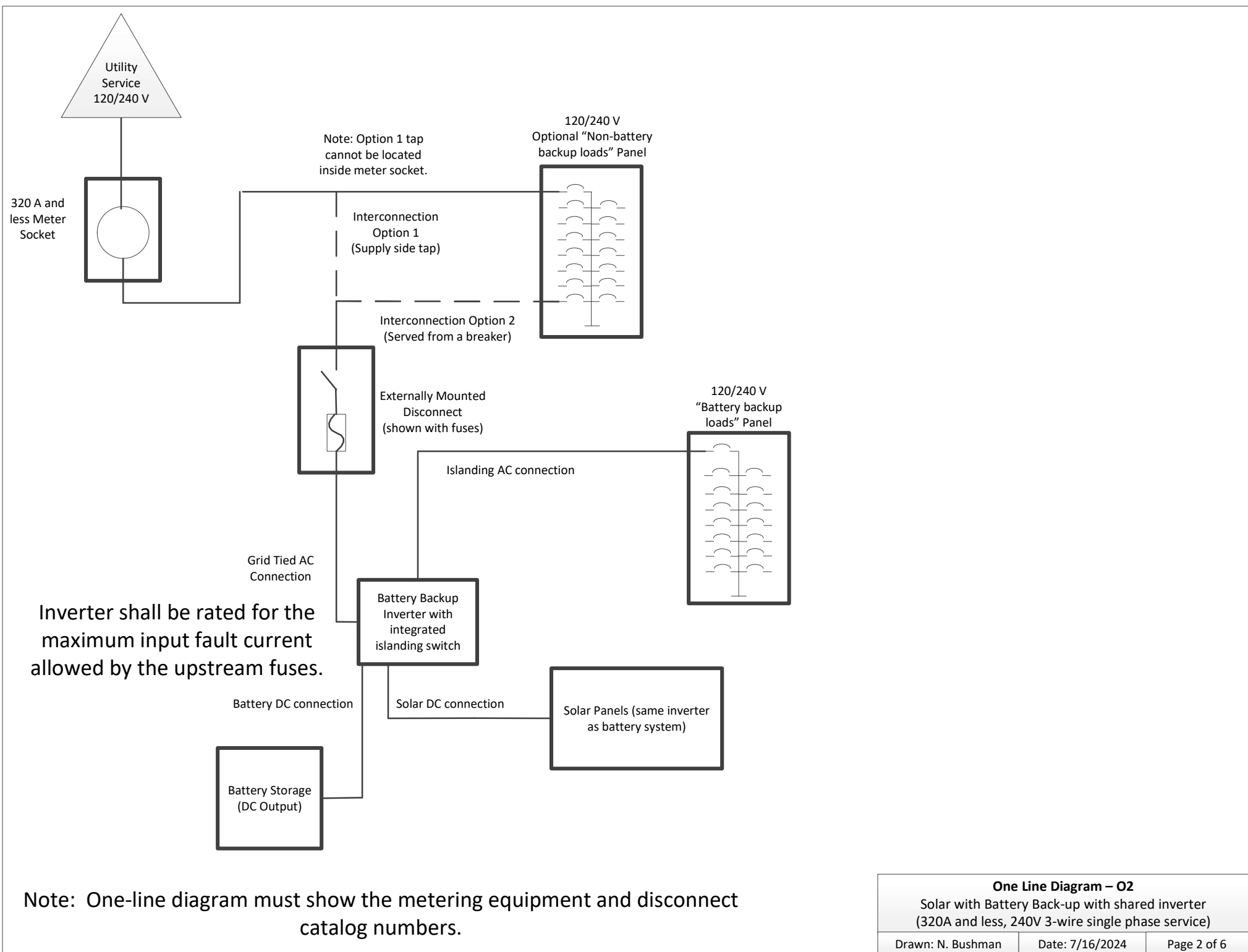
#### One Line Diagram – O1

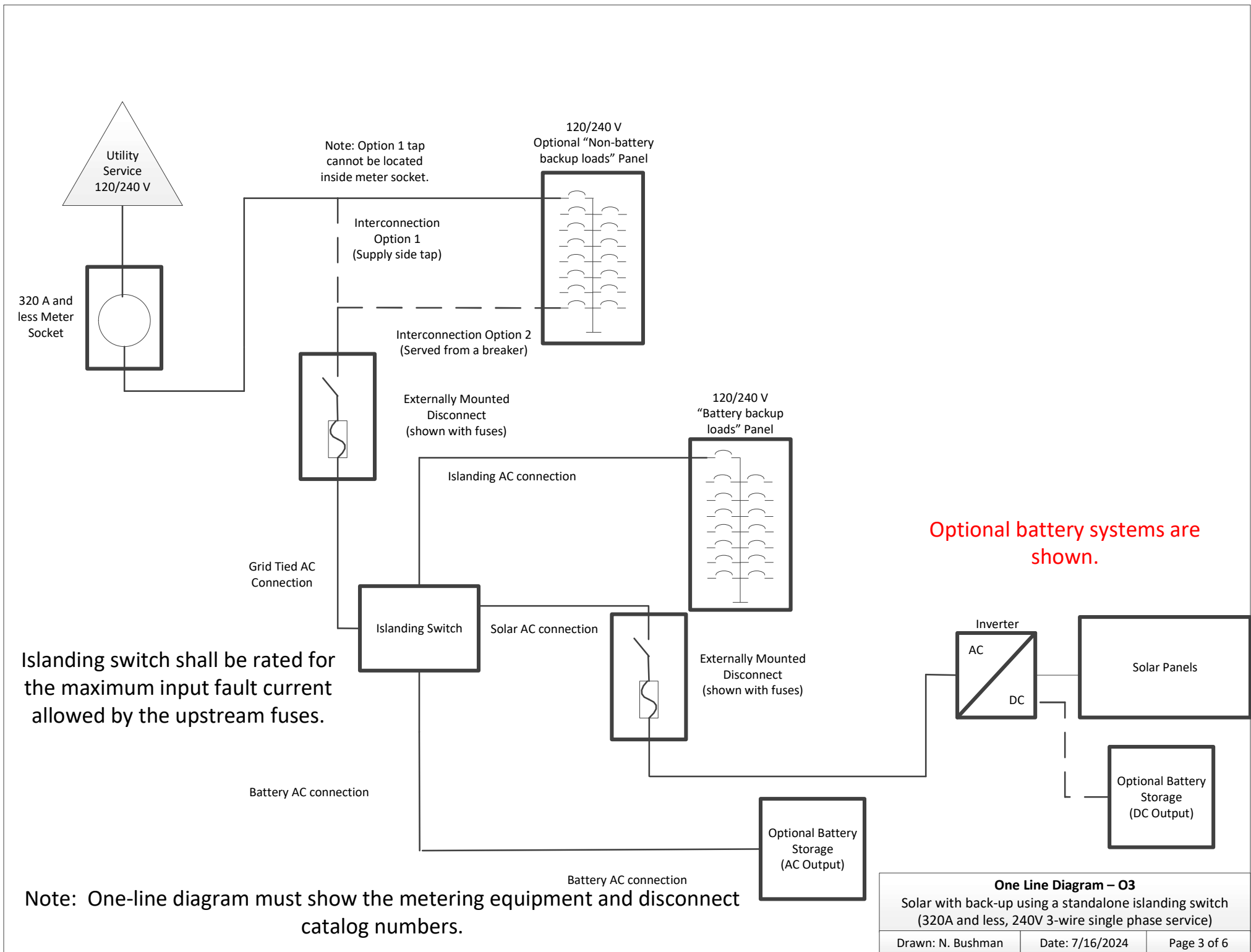
Solar with a 200A and less meter socket  
(320A and less, 240V 3-wire single phase service)

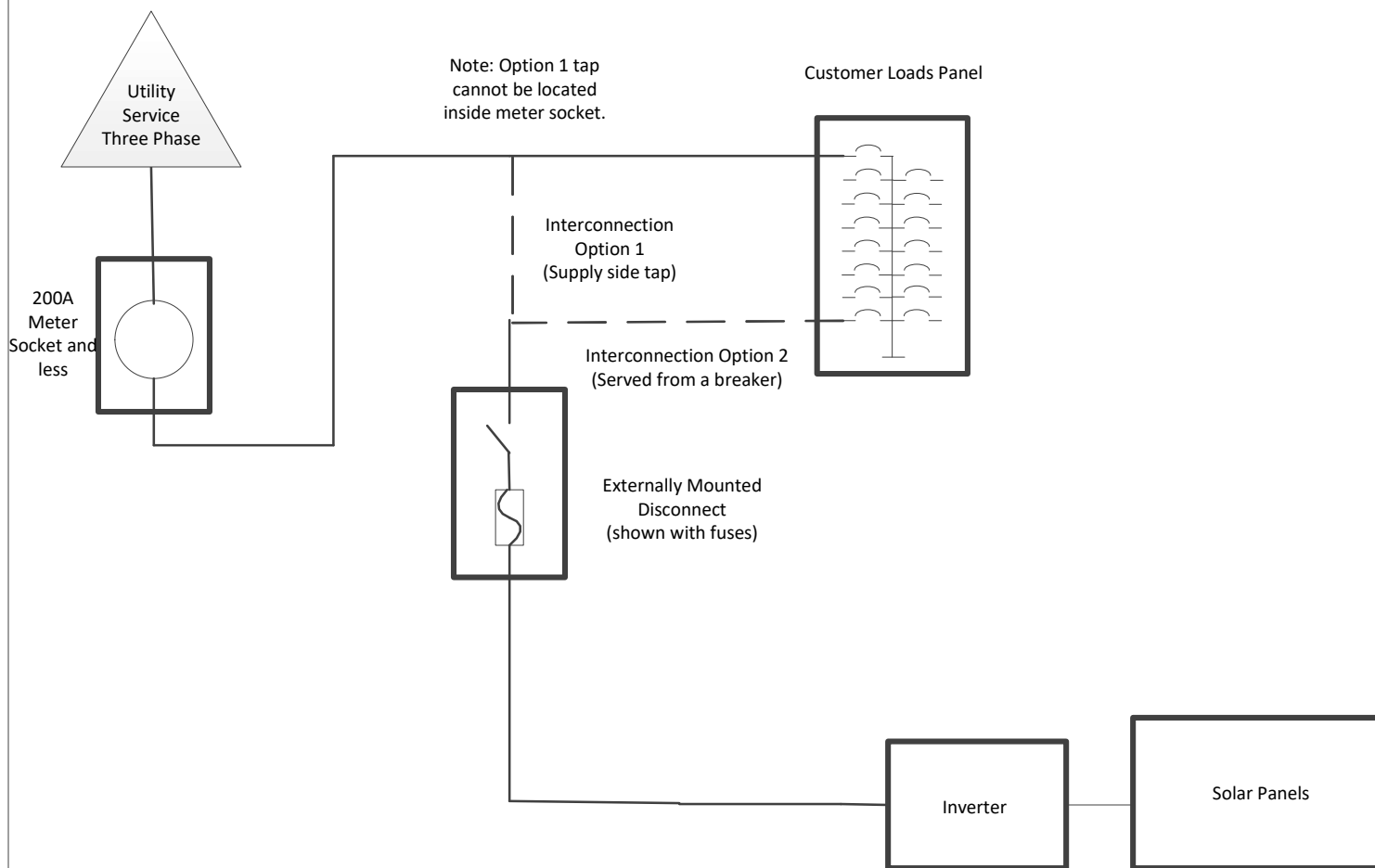
Drawn: N. Bushman

Date: 4/25/2023

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Inverter shall be rated for the maximum input fault current allowed by the upstream fuses.

Three phase inverters are required on three phase services.

Note: One-line diagram must show the metering equipment and disconnect catalog numbers.

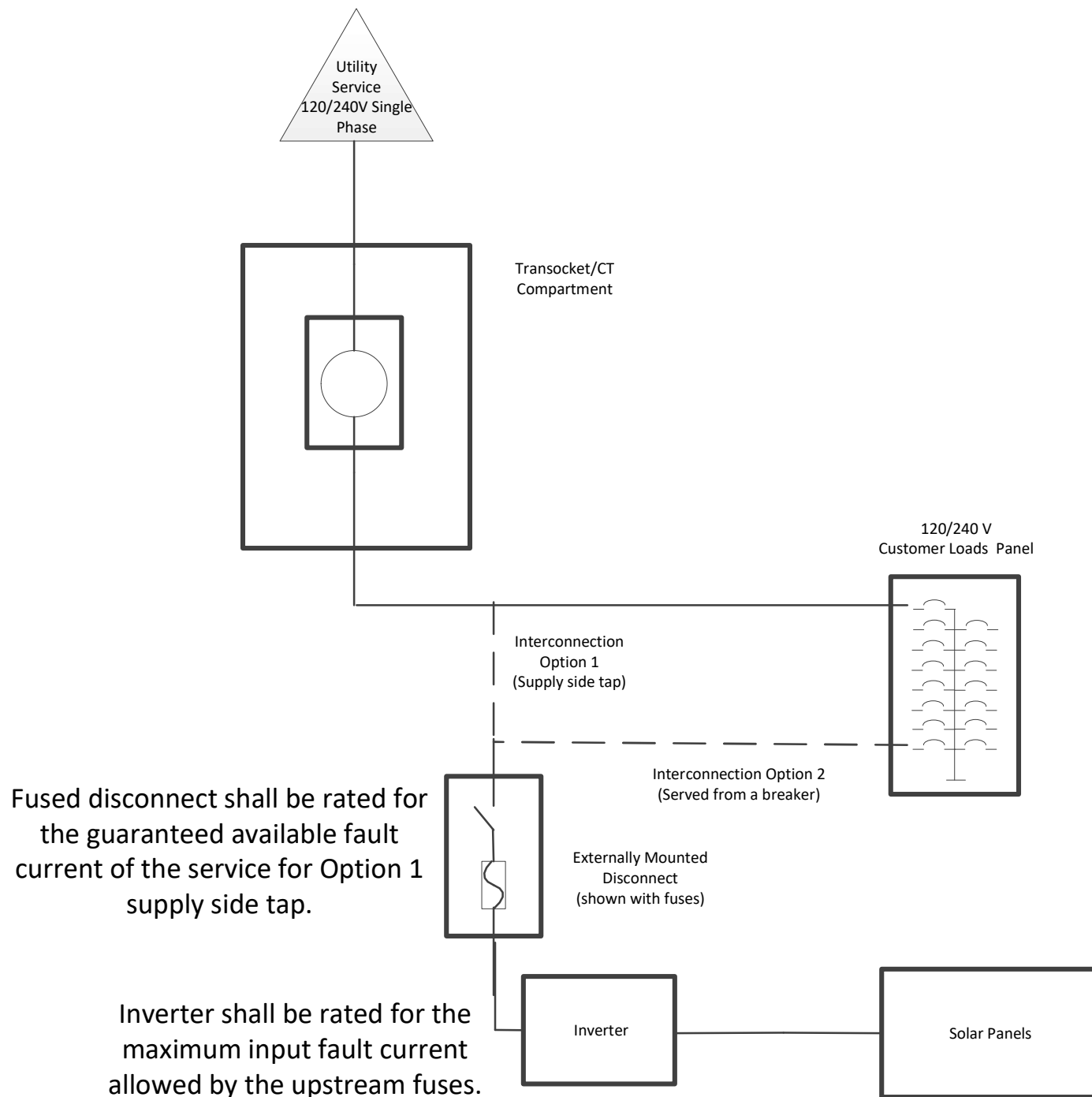
#### One Line Diagram – O4

Three phase solar  
(Three phase 200A and less Service)

Drawn: N. Bushman

Date: 4/25/2023

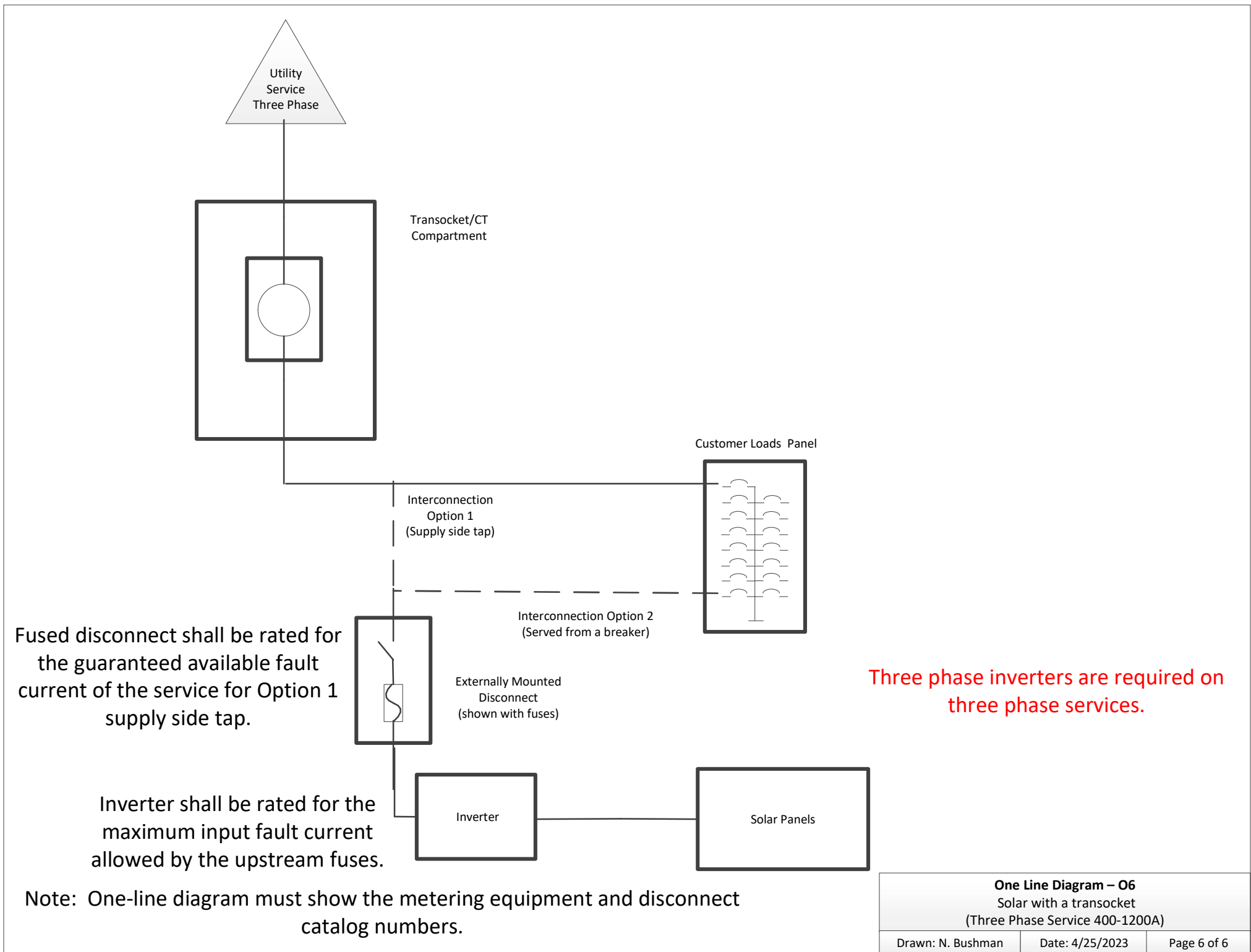
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Fused disconnect shall be rated for the guaranteed available fault current of the service for Option 1 supply side tap.

Inverter shall be rated for the maximum input fault current allowed by the upstream fuses.

Note: One-line diagram must show the metering equipment and disconnect catalog numbers.



**One Line Diagram – O6**  
Solar with a transsocket  
(Three Phase Service 400-1200A)