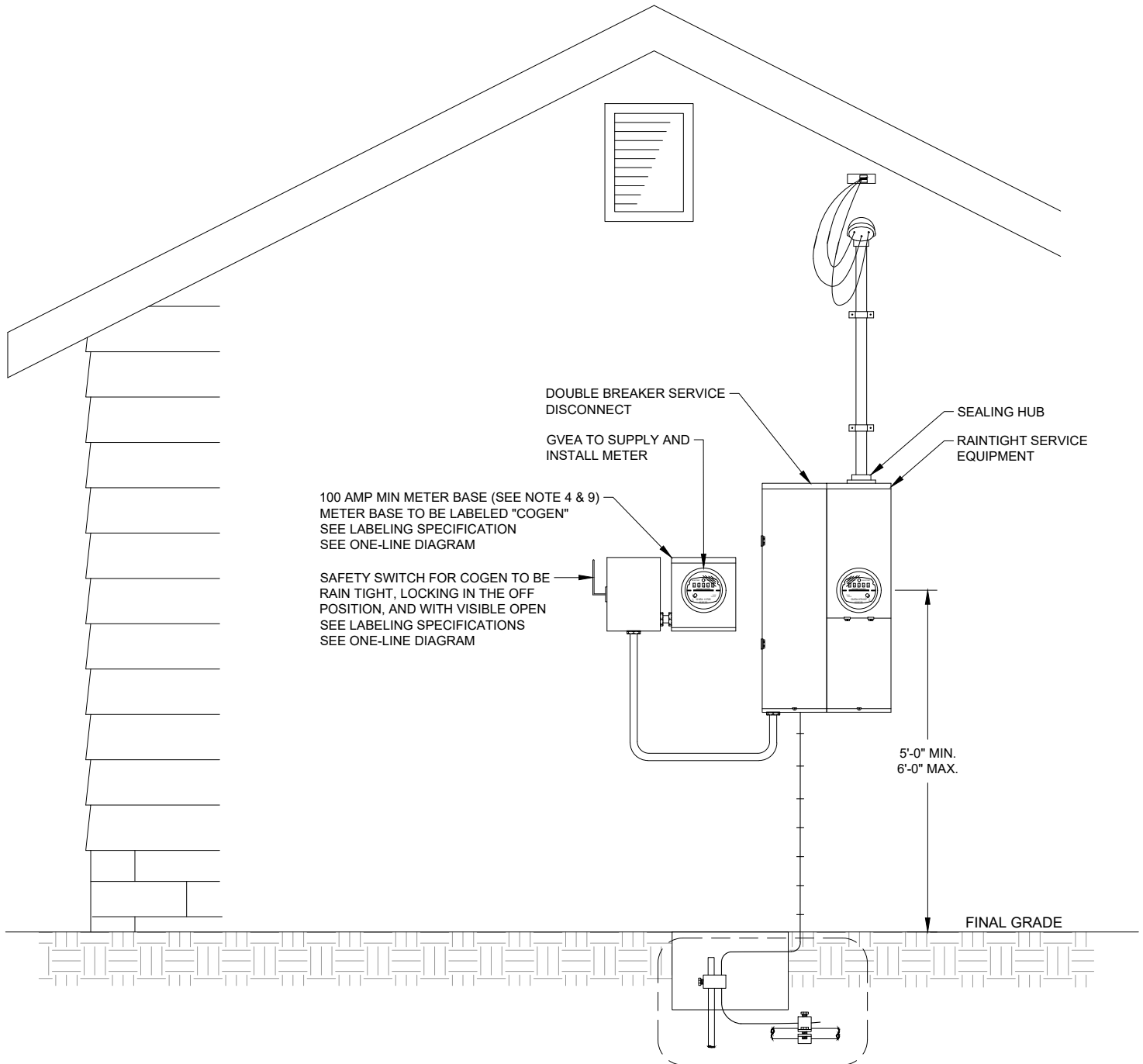


# SNAP PLUS (25 kW or Less) Solar Option 2

REVISED 05/2020

Golden Valley Electric Association, Inc.  
758 Illinois Street  
Fairbanks, AK 99701  
New Construction Phone: (907) 458-5870

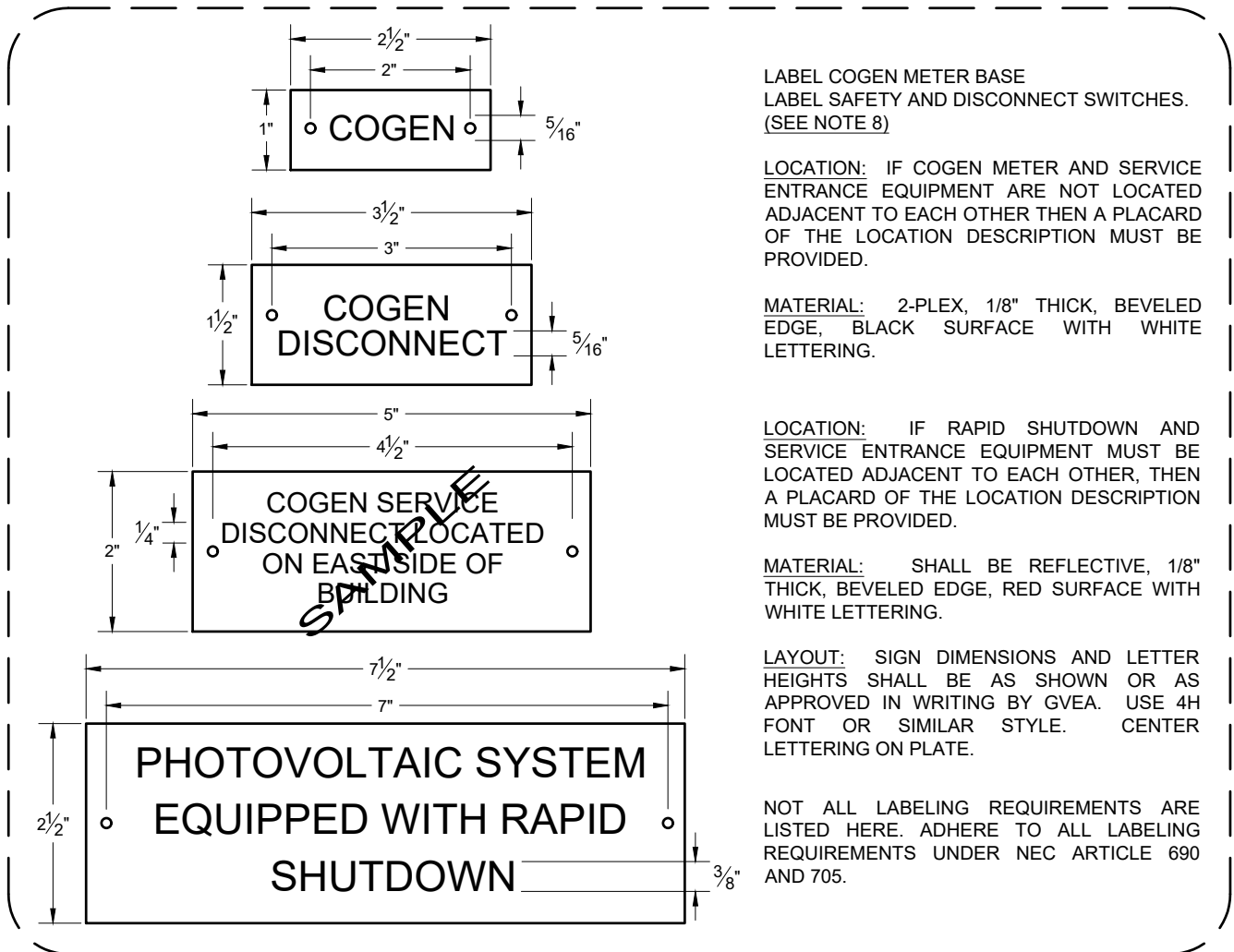
## COGEN Equipment connected to Main Service Meter Equipment



# SNAP PLUS (25 kW or Less)

REVISED 05/2020

## LABELING SPECIFICATIONS



### NOTES:

1. All grounding must meet current NEC requirements.
2. Conductors or cables under drivable areas shall be placed in RMC or IMC conduit. Equipment grounding conductor to a distribution panel is required. See NEC 250.32(B).
3. Conductor insulation shall be type XHHW or RHW.
4. Installation of SNAP service equipment shall adhere to all applicable national, state, and local construction and safety codes. Including applicable NEC requirements. Reference NEC Article 690.
5. A permanent plaque or directory, denoting all electrical power sources on or in the premises, shall be installed at each service equipment location. See NEC 705.10
6. The sum of the overcurrent protective devices for multiple sources shall not exceed 120% of busbar rating. See NEC 705.12
7. To be approved for a connection to Golden Valley's system, the member's actual installation must correspond to a reviewed set of construction plans that shall be submitted on an "Electrical Load Data and Electrical Print" form. See page 3 of Golden Valley's "Electrical Service Guidelines for Commercial and Multi-Residential Installations" Booklet or contact the Engineering Services Department.
8. Electrical disconnect switch energized from both sides shall be provided with placard indicating that all contacts might be energized, per NEC 705.22 (5).
9. The installation of a SNAP Plus system on facilities with a primary meter, non-self contained meter, or service entrance capacity over 200A requires the submission and approval of drawings prepared by a Professional Engineer licensed in Alaska.
10. SNAP Plus Photovoltaic Systems must meet Rapid Shutdown requirements NEC 690.12 and 690.56.
11. A drawing stamped by an Alaska licensed P.E. is required if the proposed installation deviates from the layout depicted on the GVEA one-line diagram.

# SNAP Plus One-Line Solar (Option 2)

REVISED 05/2020

Completed by GVEA

- Provide All Applicable Information
- Add Details for Additional/Optional Equipment (i.e. Transformers)
- (Use Separate Sheet for Different Unit Types)

**GVEA**  
 Existing Drop/Lateral \_\_\_\_\_ [Yes/No]  
 Existing Drop Conductor Size \_\_\_\_\_ [AWG]  
 Drop Length \_\_\_\_\_ [Feet]  
 Existing Transformer Size \_\_\_\_\_ [kVA or None]  
 Overhead/Underground \_\_\_\_\_

**Service Entrance Conductors**  
 Conductor Size, Line \_\_\_\_\_ [AWG]  
 Conductor Size, Neutral \_\_\_\_\_ [AWG]  
 Conduit Size \_\_\_\_\_  
 Conductor Length \_\_\_\_\_ [Feet]  
 Conduit Type \_\_\_\_\_

**Service Entrance (net meter)**  
 Rating \_\_\_\_\_ [Amps] (100 Amp Minimum)  
 Installation Method \_\_\_\_\_  
 [Underground/Overhead]  
 Overcurrent Device \_\_\_\_\_ [Breaker/Fuse]  
 Overcurrent Device Rating \_\_\_\_\_ [Amps]  
 Interrupt Rating (AIC) \_\_\_\_\_ [Amps]

**SNAP Plus Overcurrent Protective Device**  
 Overcurrent Device \_\_\_\_\_ [Breaker/Fuse]  
 Overcurrent Device Rating \_\_\_\_\_ [Amps]  
 Interrupt Rating (AIC) \_\_\_\_\_ [Amps]

Cu GEC To Approved Grounding System (size Per NEC)

Member Distribution Panel  
 (Separate or part of Service Entrance)

**SNAP Plus Feeder Conductors**  
 Conductor Size, Line \_\_\_\_\_ [AWG]  
 Conductor Size, Neutral \_\_\_\_\_ [AWG]  
 Conductor Size, EGC \_\_\_\_\_ [AWG]  
 Conduit Size \_\_\_\_\_  
 Conductor Length \_\_\_\_\_ [Feet]

**Safety Switch**  
 Switch Rating \_\_\_\_\_ [Amps]  
 Lockable, Visible Open \_\_\_\_\_ [Yes/No]  
 Fused \_\_\_\_\_ [Yes/No]

**SNAP Meter Socket**  
 Max Rating \_\_\_\_\_ [Amps]

**NOTE: DO NOT BOND NEUTRAL TO GROUND LUG.**

**SNAP Plus Safety Switch Conductors**  
 \*SAME AS SNAP -Plus FEEDER CONDUCTORS

**Inverter**  
 Manufacturer \_\_\_\_\_  
 Model \_\_\_\_\_  
 L-L Output Voltage \_\_\_\_\_ [VAC]  
 Number of Units \_\_\_\_\_  
 Nominal Rating \_\_\_\_\_ [Watts, Each]  
 Total Rating \_\_\_\_\_ [Watts, Total]  
 UL 1741 Certified? \_\_\_\_\_ [Yes/No]

**SNAP Plus Feeder Conductors**  
 Conductor Size \_\_\_\_\_ [AWG]  
 Conductor Type \_\_\_\_\_ [Cu/Al]  
 Conductor Insulation \_\_\_\_\_  
 Conductor Size, EGC \_\_\_\_\_ [AWG]  
 Conductor Size, DC GEC \_\_\_\_\_ [AWG]  
 Installation Method \_\_\_\_\_  
 [Underground/Overhead]

**NOTE: Disconnect means per NEC 690.13 and 690.15**

**Rapid Shutdown System**  
 NEC 690.12  
 Manufacturer \_\_\_\_\_  
 Model \_\_\_\_\_  
**Type**  
 Micro-Inverter  
 Shunt Trip  
 Inverter Controlled

**Solar Unit**  
 Manufacturer \_\_\_\_\_  
 Model \_\_\_\_\_  
 Number of Panels \_\_\_\_\_  
 Nominal Rating \_\_\_\_\_ [Watts, Each]  
 Total Rating \_\_\_\_\_ [Watts, Total]



Member Name \_\_\_\_\_  
 GVEA Project # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Prepared By \_\_\_\_\_