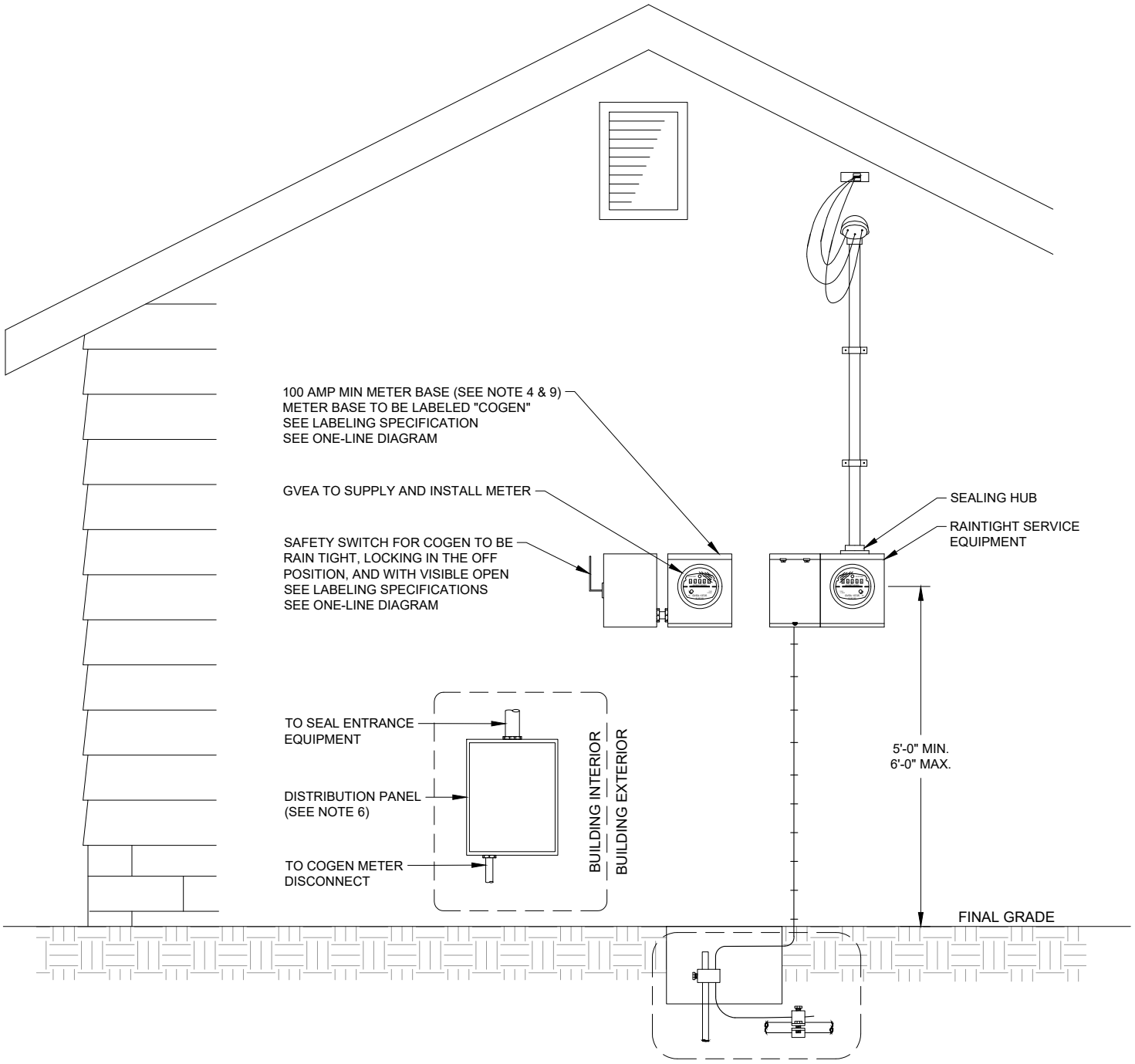
SNAP PLUS (25 kW or Less)
Solar Option 1

REVISED 05/2020

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

COGEN Meter Equipment connected to Member's Main Distribution Panel



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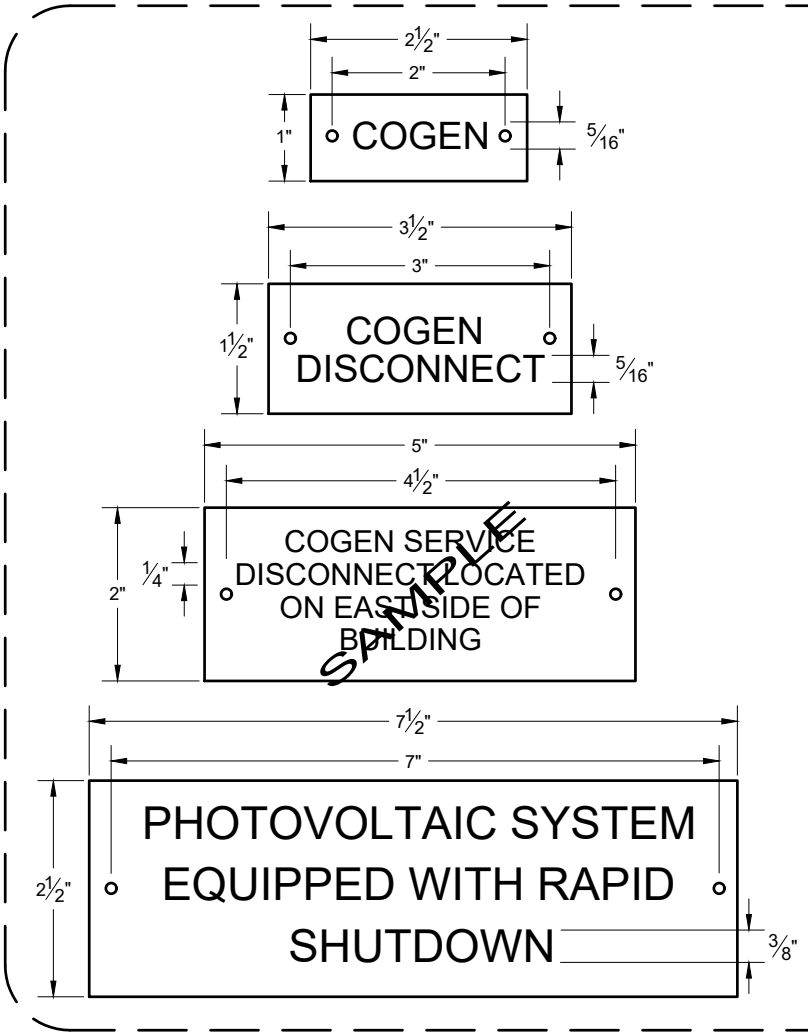
LABELING SPECIFICATIONS



LABEL COGEN METER BASE
LABEL SAFETY AND DISCONNECT SWITCHES.
(SEE NOTE 8)

LOCATION: IF COGEN METER AND SERVICE ENTRANCE EQUIPMENT ARE NOT LOCATED ADJACENT TO EACH OTHER THEN A PLACARD OF THE LOCATION DESCRIPTION MUST BE PROVIDED.

MATERIAL: 2-PLEX, 1/8" THICK, BEVELED EDGE, BLACK SURFACE WITH WHITE LETTERING.

LOCATION: IF RAPID SHUTDOWN AND SERVICE ENTRANCE EQUIPMENT MUST BE LOCATED ADJACENT TO EACH OTHER, THEN A PLACARD OF THE LOCATION DESCRIPTION MUST BE PROVIDED.

MATERIAL: SHALL BE REFLECTIVE, 1/8" THICK, BEVELED EDGE, RED SURFACE WITH WHITE LETTERING.

LAYOUT: SIGN DIMENSIONS AND LETTER HEIGHTS SHALL BE AS SHOWN OR AS APPROVED IN WRITING BY GVEA. USE 4H FONT OR SIMILAR STYLE. CENTER LETTERING ON PLATE.

NOT ALL LABELING REQUIREMENTS ARE LISTED HERE. ADHERE TO ALL LABELING REQUIREMENTS UNDER NEC ARTICLE 690 AND 705.

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 mulitple 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 Photovotaic 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.
12. Before final inspection, pictures of member's panel rating, breaker rating, and location of SNAP Plus overcurrent protective device must be submitted to GVEA.

SNAP Plus One-Line Solar (Option 1) - Load Side Connection

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_____

GVEA Transformer

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]

M

Service Feeder Conductors
Conductor Size, Line_____[AWG]
Conductor Size, Neutral_____[AWG]
Conduit Size_____
Conductor Length_____[Feet]

Cu GEC To Approved Grounding System (size Per NEC)

Note: Must comply with NEC 705.12

Member Distribution Panel
Panel Bus Rating_____[Amps]

Member Distribution Panel
(Seperate or part of Service Entance)

SNAP Plus Overcurrent Protective Device
Overcurrent Device_____[Breaker/Fuse]
Overcurrent Device Rating_____[Amps]
Interrupt Rating (AIC)_____[Amps]

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

SNAP Meter Socket
Max Rating_____[Amps]

M

NOTE: DO NOT BOND NEUTRAL TO GROUND LUG.

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]

Inverter
Manufacturer_____
Model_____
L-L Output Voltage_____[VAC]
Number of Units_____
Nominal Rating_____[Watts, Each]
Total Rating_____[Watts, Total]
UL 1741 Certified?_____[Yes/No]

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]

GVEA
Golden Valley Electric Association
Your Touchstone Energy® Cooperative

Member Name_____
GVEA Project #_____
Date_____
Prepared By_____