NOTES:
1. THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY!
2. ALL TESTING SHALL BE PERFORMED BY QUALIFIED PERSONNEL, WITH PROPER PERSONAL PROTECTIVE EQUIPMENT
3. THE PRODUCTION METER AND AC DISCONNECT SHOULD BE LOCATED TOGETHER IN A READILY ACCESSIBLE LOCATION 10' OF THE MAIN SERVICE METER
4. 24/7 UNESCORTED KEYLESS ACCESS SHALL BE PROVIDED FOR THE METERS AND AC DISCONNECT
5. UTILITY AC DISCONNECT SHOULD BE LOCATED WITHIN 10' FEET OF THE MAIN SERVICE METER
6. NOTE ALL THE APPLICABLE NEC CODES
7. SHOW ALL THE SYSTEMS INCLUDING STORAGE, EXISTING AND NEW

ABBREVIATIONS:
1. FOH: FRONT OF HOUSE
2. FSB: FIRE SET BACKS
3. (E): EXISTING
4. (N): NEW
5. PV: PHOTOVOLTAIC
6. MAX: MAXIMUM
7. OCPD: OVERCURRENT PROTECTION DEVICE

PV SYSTEM:
- ROOF SLOPE: 20°
- AZIMUTH: 180°
- PV MODULES: 300W
- TOTAL: 14
- MODULES/PER STRING: 14

INVERTER INFORMATION:
- 3.8 KW UL CERTIFIED INVERTER, (1)
- DC/AC RATIO: 1.179

SYSTEM SIZE
- 3.8 KW AC / 4.48 KW DC
ONE-LINE EXAMPLE A:
FOR SINGLE INVERTER SYSTEMS

PV MODULES
320W MODULES
14 MODULES
1 STRING OF 14 MODULES

STRING INVERTER
RATED POWER: 3800 W (400V) INVERTER
(MAX OCPD 40A)
MAX OUTPUT CURRENT 16A
MAX INPUT CURRENT 12A
UL/ETL CERTIFIED

AC DISCONNECT
240V, 100A
FUSEABLE NEMA 3R
TYPICALLY INSTALLED AT CUSTOMER DISCRETION FOR INVERTERS THAT ARE A LARGE DISTANCE FROM METERING

UTILITY AC DISCONNECT
LOCKABLE AND READILY ACCESSIBLE PANEL RATING 100A
FUSEABLE NEMA 3R

PV PRODUCTION METER 120V.
1-PHASE 3W XCEL ENERGY OWNED
AN XCEL-OWNED PRODUCTION METER MAY NOT BE REQUIRED BY THE PROGRAM THE SYSTEM APPLIES UNDER. WHEN IT IS REQUIRED, IT MUST BE INSTALLED BETWEEN THE INVERTER AND ANY CUSTOMER LOADS (METERS).

PV PRODUCTION METER 120V.
1-PHASE 3W CUSTOMER OWNED
(CUSTOMER OWNED PRODUCTION METERS ARE OPTIONAL).

200A MAIN SERVICE PANEL
200A / 2P MAIN BREAKER

240V, 100A
FUSIBLE NEMA 3R

AC DISCONNECT

TO 120/240V SINGLE PHASE
UTILITY SERVICE
OVERHEAD OR UNDERGROUND FED

PV PRODUCTION METER
120V, 1-PHASE 3W XCEL OWNED
(CUSTOMER OWNED PRODUCTION METERS ARE OPTIONAL)

INVERTER INFORMATION:
3.8 kW UL CERTIFIED INVERTER, (1)
DC/AC RATIO: 1.179

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4. 24/7 UNESCORTED KEYLESS ACCESS SHALL BE PROVIDED FOR THE METERS AND AC DISCONNECT
5. UTILITY AC DISCONNECT SHALL BE LOCATED WITHIN 10 FEET OF THE MAIN SERVICE METER
6. NOTE ALL THE APPLICABLE NEC CODES
7. SHOW ALL THE SYSTEMS INCLUDING STORAGE, EXISTING AND NEW (IF APPLICABLE)
8. SERVICES <320A WILL USE SELF-CONTAINED MAIN SERVICE METERS. 320A SERVICES MUST INDICATE WHETHER THE METERING WILL BE SELF-CONTAINED OR TRANSFORMER METERED. ALL SERVICES 400A OR GREATER MUST BE TRANSFORMER METERED

PV SYSTEM:
ROOF SLOPE: 20°
AZIMUTH: 180°

RACK CONFIGURATION:

INVERTER INFORMATION:
3.8 kW UL CERTIFIED INVERTER, (1)
DC/AC RATIO: 1.179

E-101-02A

08.10.17
PV MODULES: 320W MODULES
TOTAL MODULES: 32
MODULES PER STRING: 14
PV MODULE INFORMATION:
14 KW 1A, CERTIFIED INVERTER, (4)
DC/AC RATIO: 1.179

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3. 24/7 UNESCORTED KEYLESS ACCESS SHALL BE PROVIDED FOR THE METERS AND AC DISCONNECT.
4. THE PRODUCTION METER AND AC DISCONNECT SHOULD BE LOCATED TOGETHER IN A READILY ACCESSIBLE LOCATION WITHIN 10' OF THE MAIN SERVICE METER.
5. THE MAIN SERVICE METER SHOULD BE LOCATED WITHIN 10 FEET OF THE MAIN SERVICE METER.
6. NOTE ALL THE APPLICABLE NEC CODES.
7. SHOW ALL THE SYSTEMS INCLUDING STORAGE.
8. SERVICES <320A WILL USE SELF-CONTAINED MAIN SERVICE METERS. 320A SERVICES MUST INDICATE WHETHER THE METERING WILL BE SELF-CONTAINED OR TRANSFORMER METERED. ALL SERVICES 400A OR GREATER MUST BE TRANSFORMER METERED.

ABBREVIATIONS:
1. FOH: FRONT OF HOUSE
2. FSB: FIRE SET BACKS
3. PV: PHOTOVOLTAIC
4. MAX: MAXIMUM
5. OCPD: OVERCURRENT PROTECTION DEVICE
6. XCEL: XCEL-OWNED PRODUCTION METER
7. UL1741 CERTIFIED

SYSTEM SIZE
11.4 KW AC / 13.44 W DC
WARNING

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.

WARNING

ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH THESE TERMINALS, TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.

WARNING

ELECTRIC SHOCK HAZARD

WHEN A GROUND FAULT IS ACTIVE CONDUCTORS THAT ARE NORMALLY GROUNDED MAY BE UNGROUNDED AND ENERGIZED.

CAUTION

PHOTOVOLTAIC ENERGY IS BEING FED INTO THIS SYSTEM.

CAUTION

PHOTOVOLTAIC SYSTEM IS BACKFED.

CAUTION

MAXIMUM OPERATING CURRENT: 16 A
MAXIMUM OPERATING AC VOLTS: 240 V

NOTE:

1. ALL PLAQUES AND SIGNS REQUIRED BY 2014 NEC 690 WILL BE INSTALLED AS REQUIRED
2. LABELS, WARNING/LANDMARKING SMALL COMP 5VTA AND Z30-6.4
3. A PERMANENT PLAQUE OR DIRECTORY SHALL BE INSTALLED PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS IF NOT IN THE SAME LOCATION IN COMPLIANCE WITH NEC 690.56(B)

WARNING

Turn off AC disconnect prior to working inside panel.

DO NOT DISCONNECT UNDER LOAD.

PV SYSTEM DC DISCONNECT

MAIN PV SYSTEM AC DISCONNECT

CAUTION

DUAL POWER SOURCE SECOND SOURCE IS A PV SYSTEM.

CAUTION

MAXIMUM OPERATING CURRENT: 16 A
MAXIMUM OPERATING AC VOLTS: 240 V

Label Locations/Details

1. Production Meter
2. PV System Utility AC Disconnect, Main Service Disconnect
3. DC BUS, DC Disconnect, Inverter(s)
4. PV System Utility AC Disconnect, Main Service Disconnect
5. DC BUS, DC Disconnect, Inverter(s)
6. PV System Utility AC Disconnect, PV-AC Disconnect load side and line side
7. PV-AC Disconnect
8. PV System Utility AC Disconnect
9. PV System DC Disconnect
10. PV System Utility AC Disconnect
11. Main Service Panel/House/Area Panel, Production meter
12. Main Service Panel/House/Area Panel, Production meter
13. PV-AC Disconnect, AC Panel combiner, Production meter
14. PV-AC Disconnect, AC Panel combiner, Production meter