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Town of Hancock, New Hampshire

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**BASIC INFORMATION REQUIRED FOR PHOTOVOLTAIC (PV) PLAN REVIEW SUBMITTAL**

\*Informational Purposes Only\* 2017NEC

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**ADMINISTRATIVE**

1. The following clearances or approvals are required before a building permit can be issued:
  - a. Fire Department
  - b. Building and Safety

**SITE PLAN**

2. Provide full dimensioned site plan. Show lot size, street, easements, parking spaces, location, size and use of all structures on the lot, and property line. Identify property lines, lot dimensions, and distance to property line
3. Show voltage, ampere rating, and location of the service disconnecting means, and location of all solar photovoltaic system

**LINE DIAGRAM**

4. Provide at minimum an electrical single line diagram showing:
  - a. Array configuration, module specified
  - b. Array conductors identified
  - c. Combiner/junction box identified
  - d. Conduits/conductors from array to inverter identified
  - e. DC grounding system specified
  - f. Disconnecting means (DC and AC) specified
  - g. Inverter specified
  - h. Conduits/conductors from inverter to interactive system points of interconnection identified
  - i. AC grounding and system grounding specified
  - j. Interconnecting provisions for the utility-interactive inverter identified

**INVERTER INFORMATION**

5. Provide inverter manufacturer specification sheet

**PV MODULE INFORMATION**

6. Provide module manufacturer specification sheet

## ARRAY INFORMATION

7. Show the following on the plan:
  - a. Number of module in series
  - b. Number of parallel source circuits
  - c. Total number of modules
  - d. Open circuit voltage (Voc)
  - e. Short-circuit current (Isc)
  - f. Temperature Coefficient (Voc)

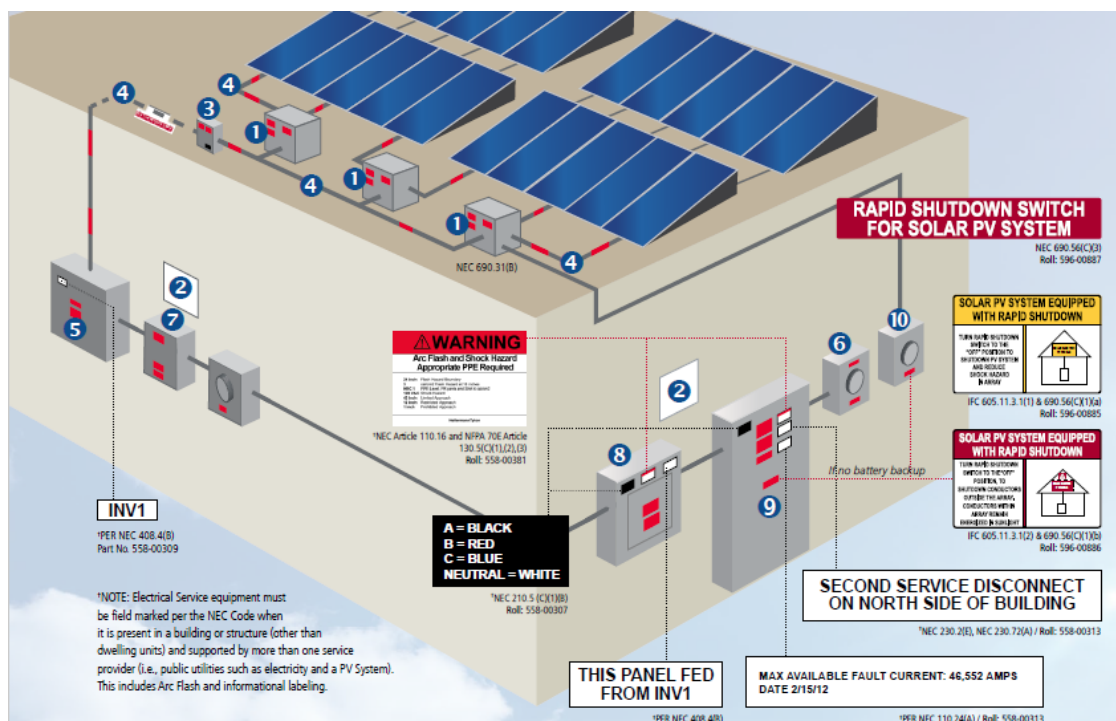
## WIRING AND OVERCURRENT PROTECTION

8. Show the following on plan:
  - a. Conductors shall be 90° C wet and continuous rated
  - b. Conductor ampacity deration due to ambient temperature and location
  - c. Overcurrent protection on inverter output circuit is sufficient

## ROOF INFORMATION (ROOF TOP SYSTEM)

9. Show the following information on plan:
  - a. Weight of the arrays (pounds per square foot including mounting hardware)
  - b. Describe and show the roof structural elements
  - c. Identify roof type
  - d. Provide detail of photovoltaic panel mounting hardware attachment to the roof framing members
  - e. Provide mounting hardware manufacturer specification
  - f. Provide engineering calculations and details demonstrating adequacy of supporting members, including wind uplift and snow load effects

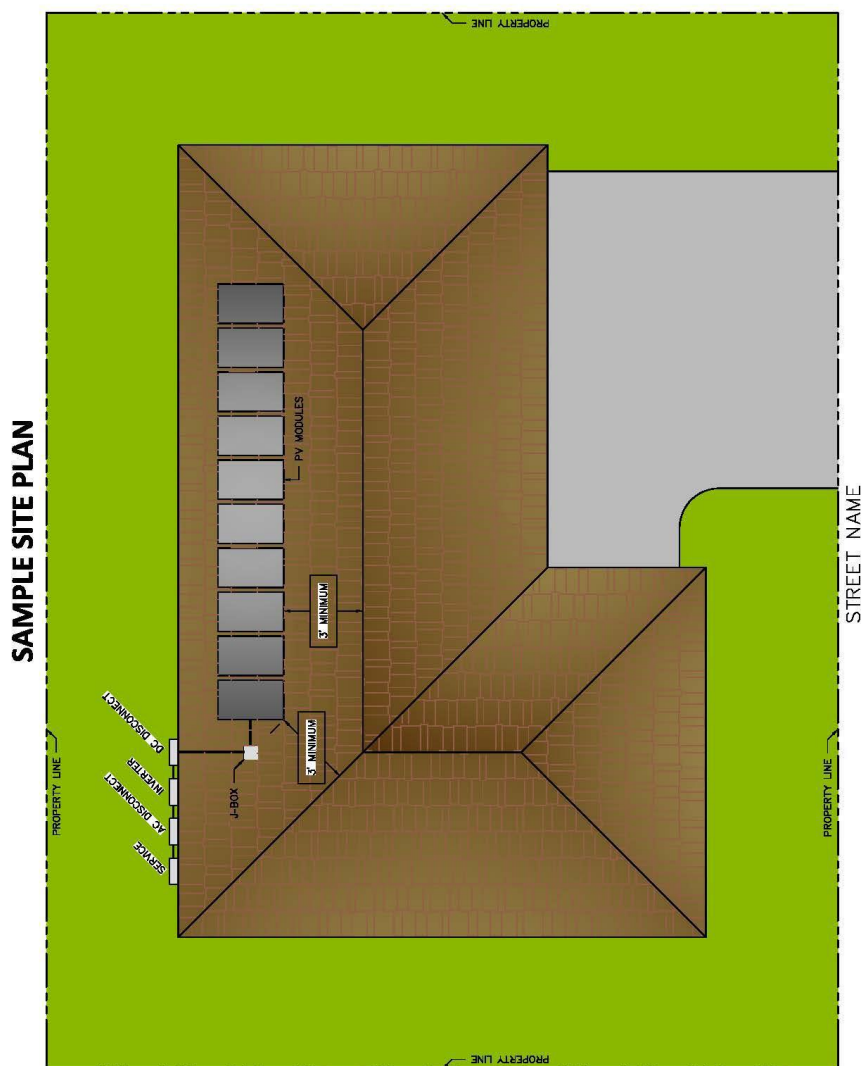
## REQUIRED PHOTOVOLTAIC SIGNS



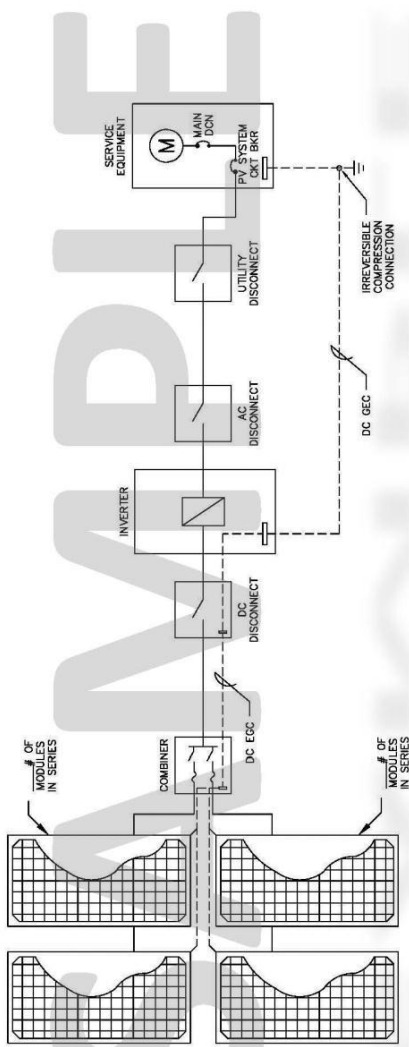


### **SAMPLE SITE PLAN**

Site plan shown is to illustrate the necessary information required for full plan review. Complete and accurate site plan is required for an expeditious review and approval.

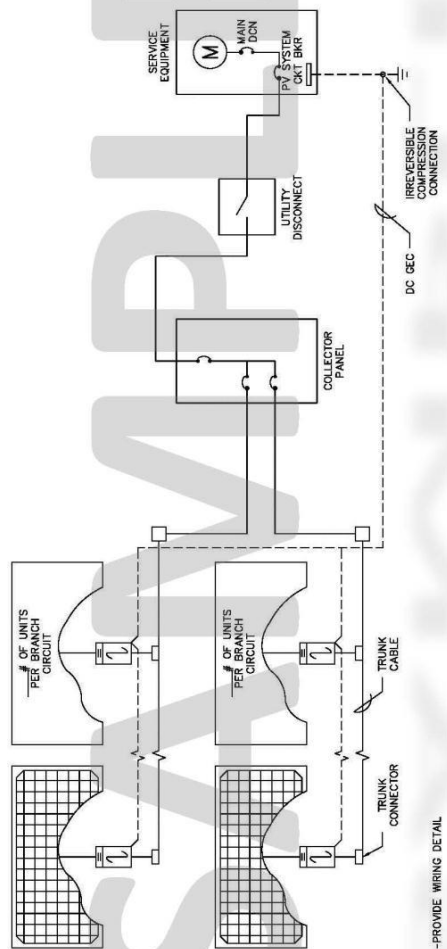


**SAMPLE PHOTOVOLTAIC SINGLE LINE DIAGRAM**  
FOR INFORMATIONAL PURPOSES ONLY



CENTRAL INVERTER SYSTEM

**SAMPLE PHOTOVOLTAIC SINGLE LINE DIAGRAM**  
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MICROINVERTER SYSTEM

-PROVIDE WIRING DETAIL