LEGEND:

WORK BY UTILITY -
- Aerial service entrance cable furnished and installed by utility.
- Splicing of utility's service entrance cable onto Contractor's service entrance cable by utility.
- Termination of Contractor-supplied service entrance cable onto Contractor-installed wood pole/kit frames.
- Existing proposed electric utility pole installed by utility (If None)
- Communication cable furnished and installed by communication provider if needed.

WORK BY CONTRACTOR -
1. Install rigid 90° conduit sweeps.
2. Warning ribbon 12" above service lateral.
3. Contractor furnished and installed Class V wood pole. Minimum 30' long. See plans on this sheet for setting depths. It is the responsibility of the Contractor to furnish and install a wood pole that is sufficient in length to meet min. roadway clearance of 20'.
4. Contractor installed wood crossarm equipment rack. See details on sheet.
6. Fusible service disconnect switch. Fuse sizes & service rating per plan. Disconnect safety switch enclosures shall be sized appropriately to fit number and size of conduit connections per plan. Disconnect safety switch enclosures shall be sized to accommodate conductors. See plan. Disconnect safety switch enclosures shall also be capable of separately locking the disconnect switch in the appropriate position and shall also be capable of separately locking the door shut. one padlock shall be used to lock the disconnect switch in the appropriate position and one padlock shall be used to lock the door shut.
7. Concrete pull box, 18" will be installed within 5' of every electric service. No electrical splices permitted. See detail 30" communication pull box may be included per plan.
8. 6" x 10" copper clad steel ground rod electrode, epd at a ground point not located 30" below grade and at least 1' off edge of pole or equipment foundation. See detail 30" grounding electrode conductor attached to ground rod installed per NEC and local requirements.
10. Two 2" rigid conduit risers. One for power and one for communication, if included per plan. To connect to a separate communication pull box. See detail 30" grounding electrode conductor attached to ground rod installed per NEC and local requirements.
11. Service entrance cable in conduit by Contractor. All service entrance cable shall be Rigid Metallic conduit and cable per plan by Contractor. No splices permitted in pull box unless approved by Engineer. Contractor is responsible for furnishing and installing all equipment according to Engineer's approval.
12. Service provider power conduit systems shall be installed per NEC and local requirements.
13. Do not extend conduit above the secondary or neutral position at any time.
14. Grounding electrode conductor attached to grounding electrode at least 36" below grade with ground clamps suitable for direct burial. From the disconnect switch neutral bus, the grounding electrode conductor must always be directed downward or horizontally.
15. Right 2" conduit with sweeps shall terminate into pull box. Conduit installed a minimum of 30" below grade.

WORKSHEET:

POWER SERVICE
240/120V, 3 Wires, 1 Phase or 480/240V, 3 Wires, 1 Phase
- See Standard Construction Drawing HL-40.10 for more details.
- 150A disconnects will be fused at 50A.
- 65A disconnects will be fused at 30A.

NOTES:
1. Contractor must coordinate with utilities' field engineer. Contractor shall be responsible for surveying and coordinating all utilities, related work, and inspections as necessitated by the project.
2. All work and materials shown on electrical service details from the electric utility pole to the disconnect is incidental to power service pay items.
3. Service provider power conduit systems shall be installed per NEC and local requirements.
4. Do not extend conduit above the secondary or neutral position at any time.
5. Conduit shall maintain a minimum clearance of 6" below the secondary or neutral.
6. All proposed service types and locations are subject to approval from utility. Contractor is responsible for furnishing and installing all equipment according to Engineer's approval.
7. If power service is needed to provide 480V, the service shall be a 480/240 single phase service. The contractor shall coordinate with the power company to determine if they have any special requirements for a metered HUB or single service drop, such as but not limited to, an additional enclosure or disconnect ahead of the meter, current transformers, or conduct feeders. If so, the contractor shall consult the power company to determine if they have any special requirements for the power service as needed, as approved by the engineer.
8. All conduit used in Power Service construction shall be Rigid Metallic conduit (RMC) per 752.04. Transition to other conduit materials (if called for in the plans) at no less than 2 feet below finished grade.
9. All energized parts shall be guarded against accidental contact using guards supplied or approved by the electrical device manufacturer.

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- 65A disconnects will be fused at 30A.
1. All conduit shall conform to C&ME 725.04.