CHAPTER 9

ELECTRIC SERVICE RULES – UTILITY/CATV SERVICES

900. GENERAL

△ **A.** Alliant Energy receives many requests for electric service from other utilities; telephone, telecommunications companies, cable television, the Department of Transportation and local municipalities. This section of the Electric Service Rules has been established to deal with service requests from these customers. Many of these services include a request to place a meter socket and/or disconnect devices on Alliant Energy poles. Requests involving attachments of customer equipment, disconnects, power supplies, risers, and meter sockets can create conditions where the pole becomes cluttered, making it very difficult and dangerous to climb. Requests for underground service to customer owned underground termination and/or metering facilities may or may not meet requirements set forth by Alliant Energy for service. We will look at each request on an individual basis.

B. The **preferred** method for these types of service will be to an approved meter pedestal with or without fused disconnects as shown in **Section 902**.

C. Alliant Energy will not allow meter sockets or customer's power equipment on the following poles: transformer bank poles, capacitor poles, riser poles, three-phase switch poles, three-phase buck arm corner or tap poles, and ornamental lighting poles. Metering facilities will not be allowed on Alliant Energy poles, except where a prior joint use attachment agreement exists between Alliant Energy and the party requesting the service.

D. When the customer's equipment, risers and meter-sockets are allowed on Alliant Energy poles, they may not occupy more than two adjacent quadrants. Clearances shall be maintained as indicated in the NESC and NEC and any local or state codes. Written approval or a signed Attachment Agreement shall also be obtained from Alliant Energy before any of these attachments are placed on Alliant Energy poles. Failure to get approval will result in immediate removal of the non-approved facilities.

E. Alliant Energy personnel will review municipal attachment requests for Christmas lights or decorations on poles. These attachments may be allowed if adequate space is available to meet NESC requirements and if the customer provides a fused weather tight GFCI receptacle at the point of service connection. All wires serving Christmas decorations will be strung from pole to pole. In no case will Alliant Energy provide service to Christmas decorations from pole to building.

F. WiFi installations are allowed on Alliant Energy facilities. They require a signed WiFi Agreement through the Joint Facilities group before any facilities will be considered for placement. Contact the Alliant Energy Joint Facilities Coordinator for further information.

901. UTILITY/CATV POLE-MOUNT SERVICE, 120/240 VOLTS, SINGLE-PHASE, 3-WIRE, 200 AMP MAX. (CATV, TELEPHONE, MUNICIPAL)

☐ **Utility furnishes, installs & maintains**

9. Service conductors and connections
10. Meter

◯ **Customer furnishes, installs, & maintains**

1. Service Weather head
2. Service Entrance Conduit
3. Service Entrance Conductors
4. Weather Proof Service Fused Disconnect
5. Cable TV Power Supply or equivalent device
6. Ground in accordance with the code (Refer to pages 200-203)
7. (2) – 8' Ground rods
8. Meter Socket

NOTES:

1. Non-Metallic conduit, (Schedule 80). If metallic conduit is used, it shall be covered with a non-metallic covering 40 inches above and 40 inches below any communication attachments.

2. The service entrance conductors shall extend at least 36" beyond the service head to permit proper connections.

3. The disconnect power supply unit, meter socket and TV cable shall be mounted on the same quadrant of the pole.

4. When a unit contains both the service switch and the power supply, installation height shall be in accordance with applicable codes.

5. Power supply units may not be mounted on poles where transformer banks, risers, vertical supply conductors to aerial services, switch handles, traffic signal, capacitor banks or similar fixtures exist. Power supplies may not be mounted on three phase distribution corner poles or tap poles.

6. When foreign facilities are attached to a pole supporting a lighting fixture, a clearance of 20" is required.

7. Bonding should be provided between all metallic power and communications apparatus.

8. Minimum wire size shall be number 6 AWG and maximum wire size shall be 4/0.

9. Residential meter sockets are acceptable for service entrances 60 amps or less. For service entrances 100 amps or larger commercial meter sockets are required.

10. All installations shall conform to the National Electrical Code, the National Electrical Safety Code, Iowa, Minnesota and Wisconsin State Electrical codes for clearances and working space.

901. UTILITY/CATV POLE-MOUNT SERVICE, 120/240 VOLTS, SINGLE-PHASE, 3-WIRE, 200 AMP MAX. (CATV, TELEPHONE, MUNICIPAL), CONTINUED.

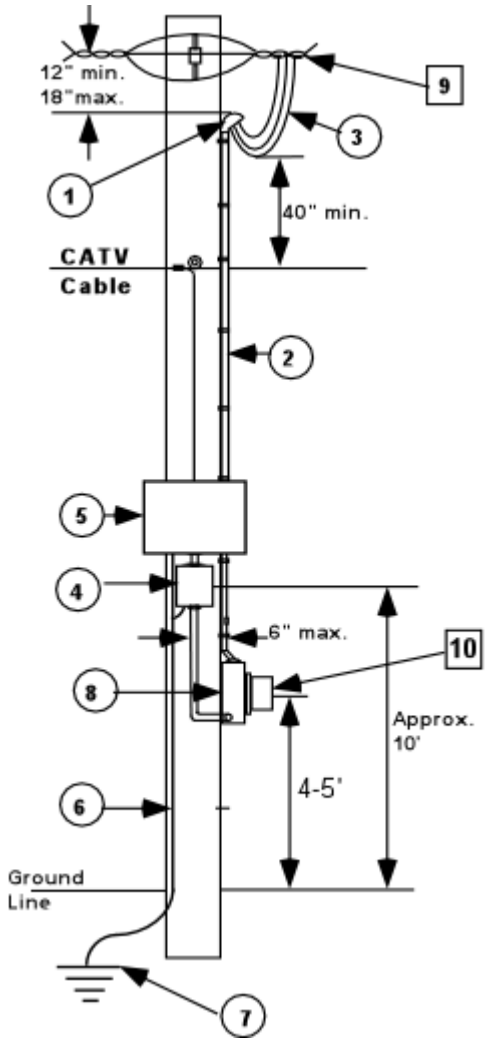

Fig 901

902. UNDERGROUND SERVICE, 120/240 VOLTS, SINGLE-PHASE, THREE-WIRE, 200 AMP. MAX. (CATV, TELEPHONE, MUNICIPAL)

☐ **Utility furnishes, installs & maintains**

1. Underground Service lateral
2. Meter
3. U-Guard
4. Riser Pole

◯ **Customer furnishes, installs, & maintains**

5. Meter Socket
6. Service Entrance Equipment
7. Pedestal Stake (min. 6')
8. Ground in accordance with the code (Refer to pages 200-203)
9. Factory Manufactured Stabilization foot.
10. Underground Feeder Circuit
11. Rigid Conduit (for Customer Conductors when required)

NOTES:

1. Both Grounding Electrodes shall be installed on the same side of the Pedestal.
2. If service is from a Pad-Mount transformer or Alliant Energy pedestal the 10' dimension from the Pad-Mount transformer or pedestal can be reduced to 5'.
3. Item # 9, when the entrance trough on a meter pedestal is not divided for metered and un-metered conductors, the contractor shall provide a conduit exit from disconnect device.
4. The bottom of a disconnect means shall be mounted a minimum 2 feet above finished grade or a platform.
5. Bonding should be provided between all above ground metallic power and communications apparatus (pedestals, terminals, apparatus cases, transformer cases, etc.) that are separated by a distance of 6 feet or less. (2007 NESC 384.C)
6. Minimum wire size shall be number 6 AWG and maximum wire size shall be 4/0.

Reference ESE E117, COMMERCIAL METER PEDESTALS WITH MAIN 250 VOLTS MAX

902. UNDERGROUND SERVICE, 120/240 VOLT, SINGLE-PHASE, THREE-WIRE, 200 AMP. MAX. (CATV, TELEPHONE, MUNICIPAL), CONTINUED.

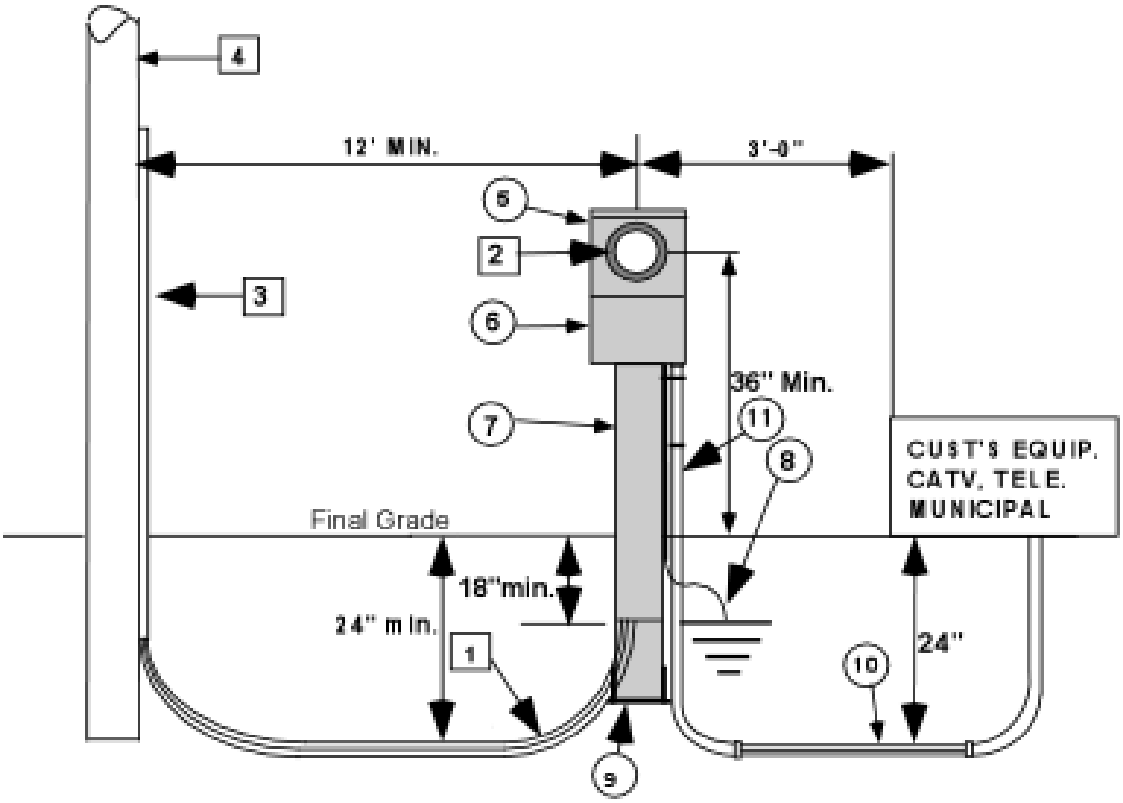

Fig 902

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