

SECTION 16627

TREATED TIMBER POLES

PART 1 DESCRIPTION

- A. Furnish and install treated timber poles.

PART 2 MATERIALS

- A. Use new treated southern pine timber poles in accordance with ANSI O5.1, "Specifications and Dimensions for Wood Poles," and the additional requirements of this Item. Use ANSI Class 5 treated timber poles for electrical services and ANSI Class 2 for all other applications, unless otherwise shown on the plans.
- B. Ensure poles are free from pith holes at the tops and butts. Do not use poles that have a trimmed scar with a depth greater than 2 in., if the diameter is 10 in. or less, or 1/5 the pole diameter at the scar location, if the diameter is more than 10 in. Provide poles that do not deviate from straightness by more than 1 in. for each 10 ft. of length. A pole may only have sweep in 1 plane and 1 direction (single sweep), provided a straight line joining the midpoint of the pole at the butt and the midpoint of the pole at the top does not at any intermediate point pass through the external surface of the pole. Timber poles with more than 1 complete twist of spiral grain are not acceptable.
- C. Butt slivering due to felling is permitted if the distance from the outside circumference is not less than 1/4 of the butt diameter and the height is not more than 1 ft. Use preservative treatment in accordance with AWPAC4. Furnish poles with a minimum net retention of preservative treatment in accordance with Table 1.
- D. Mark all poles by branding in accordance with Table 2.

Table 1
Retention of Preservative Treatment

Treatment	Minimum Retention
Creosote	9.0 lb./ft. ³
Pentachlorophenol	0.45 lb./ft. ³
ACA/CCA	0.6 lb./ft. ³

**Table 2
Timber Pole Markings**

Marking	Description of Marking
PTC	Supplier's code or trademark (for example, Pole Treating Company).
F-01	Plant location and year of treatment (for example, Forestville, 2001).
SPC	Species and preservative code (for example, southern pine, creosote).
5-35	Class-length (for example, Class 5, 35-ft. pole).

- E. Place the bottom of the brand squarely on the face of the pole 10 ft. (plus or minus 2 in.) from the butt.
- F. Furnish a treatment certification with every shipment of treated timber poles that includes:
1. name of treating company,
 2. location of treating plant,
 3. applicable product standard (AWPA C4),
 4. charge number,
 5. date of treatment,
 6. contents of charge (poles),
 7. preservative treatment, and
 8. actual preservative retention values.

PART 3 CONSTRUCTION

- A. Use established industry and utility safety practices while installing poles located near overhead or underground utilities. Consult with the appropriate utility company prior to beginning such work.
- B. Unless otherwise shown on the plans, set the pole a minimum depth in accordance with Table 3.

**Table 3
Pole Setting Depth**

Pole Length (ft.)	Min. Setting Depth (ft.)
25 or less	4.5
26-30	5.0
31-35	5.5
36-40	6.0
41-45	6.5
46-50	7.0

- C. Locate timber poles as shown on the plans or as directed. Drill holes for setting poles a minimum of 1.5 diameters of the pole butt. Unless otherwise shown on the plans, set the poles plumb. Backfill the holes thoroughly by tamping in 6 in. lifts. After tamping to grade, place additional backfill material in a 6 in. high cone around the pole to allow for settling. Use material equal in composition and density to the surrounding area. Repair surface where existing surfacing material is removed, such as asphalt pavement or concrete riprap, with like material to equivalent condition.

PART 4 MEASUREMENT AND PAYMENT

- A. The work performed, materials furnished, equipment, labor, tools, and incidentals will not be measured or paid for directly, but will be subsidiary to pertinent Items.

END OF SECTION