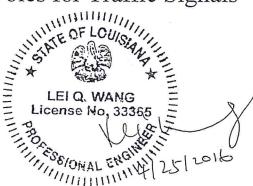
Louisiana

Department of Transportation And Development

Traffic Control Standard
Number 10

Steel Poles for Traffic Signals



Revised April 25, 2016

Traffic Control Standard # 10

Steel Poles for Traffic Signals

Poles shall be supplied as described in the following specifications and as shown in Figure 1 (SAP# 11060 – Stock# 14-12-1320, SAP# 11061 - Stock# 14-12-1321, SAP# 11062 – Stock# 14-12-1330, SAP# 11063 – Stock# 14-12-1331, SAP# 11064 – Stock# 14-12-1340, and SAP# 11065 – Stock# 14-12-1341). The pole height and type shall be specified on each order.

Pole shafts shall have a base diameter of approximately 11" (11-3/4" maximum) and tapered to $8"(\pm 1/2")$ diameter at the top. A standard removable cap shall be suitable to cover all shafts with diameters varying from 7-1/2" to 8-1/2". Pole shafts can be round or 8-sided.

Poles shall be provided with a handhole located approximately 18" above the base with approximate dimensions of 4" x 6-1/2". The handhole shall be provided with a cover that is restrained to the pole with a 15" - #35 stainless steel chain fastened to both the cover and to the inside of the handhole in a fashion such that the chain will be inside the pole. The manufacturer's name and pole height shall be stenciled on the cover and the base, and be both readable from the outside of the pole and legible after galvanizing. The handhole strain bar shall be formed in such a manner to provide a mechanical lock against the handhole in order to prevent turning. No obstructions shall be in the handhole with the cover removed. A grounding nut (1/2" - 13NC) shall be welded to the inside of the shaft 90° left and horizontal from the handhole. A grounding lug shall be provided with each pole (Fargo GC202 or approved equal).

Poles shall have a 1" and a 3" boss centered on a horizontal line 18" from the base. The 3" boss shall be located 180° from the handhole. When facing the bosses, the 1" boss shall be a maximum of 35° to the right of the 3" boss. A wire way shall be provided through two (2) 3" and one (1) 1" boss provided in the shaft 18" below the top of the shaft. The 3" bosses shall be on opposite side of the pole shaft, on the same level. The poles shall be shipped with all bosses plugged by using galvanized steel conduit plugs installed to full thread depth. The handhole and the 3" boss mentioned above shall be centered on one (1) edge of the base plate.

All pole hardware, including leveling and cap nuts, shall be packaged together on a per pole basis. Pole base plates, anchor bolts, hex nuts, and washers shall have design and dimensions as shown in both **Figure 1** and **Figure 2**, respectively. Cap nuts shall have a maximum dome height of 1-3/4" with an inside clearance of 1/2" between the threads and the top of the dome. All anchor bolts, with hex nuts and washers, shall be assembled and banded in bundles of four (4) and supplied with each pole. The handhole cover shall be securely fastened to the pole for shipment. In addition, one (1) additional anchor bolt shall be supplied with each order.

Poles shall meet the following specified deflection:

Deflection Table		
Pole Length (Ft)	Max. Deflection (In/100#)	
26	0.25	
28	0.30	
30	0.38	

The underside of each pole base plate shall be painted to identify pole height as follows:

	Color Table	
Pole Height (Ft)		<u>Color</u>
26		Yellow
28		Red
30		Green

All edges of equipment shall be deburred and smooth. All material shall be hot dipped galvanized.

All material shall conform to applicable subsections of Section 1013 in the <u>Louisiana Standard Specifications for Roads and Bridges</u>. The vendor will follow the requirements directed to the contractor.

