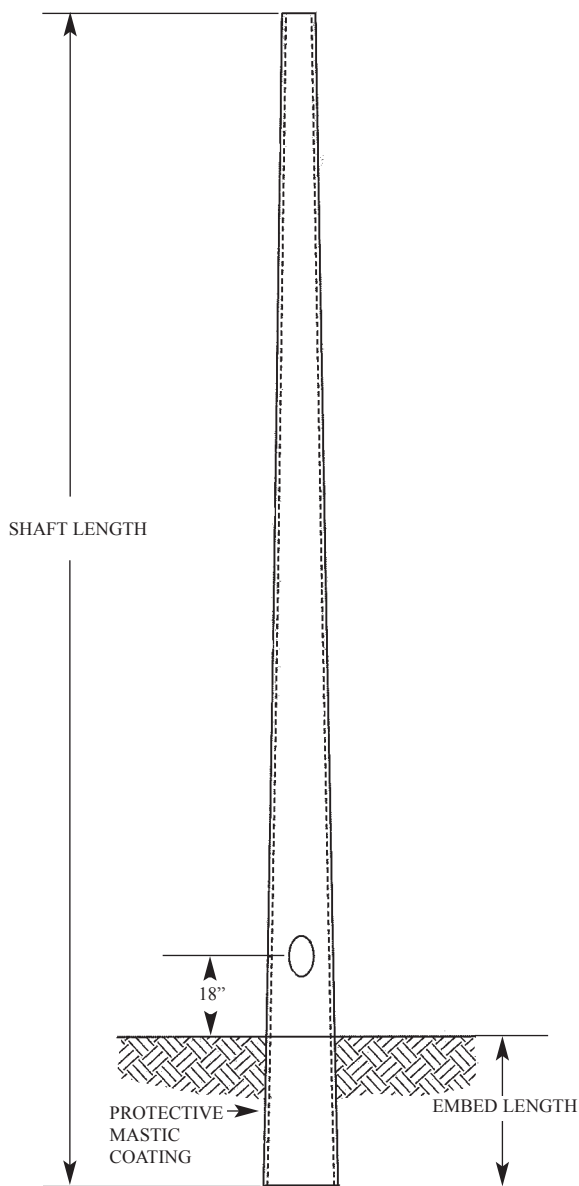
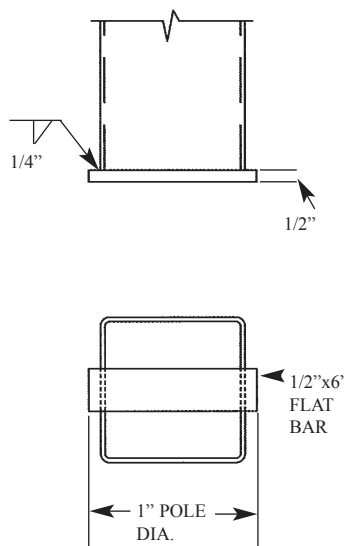


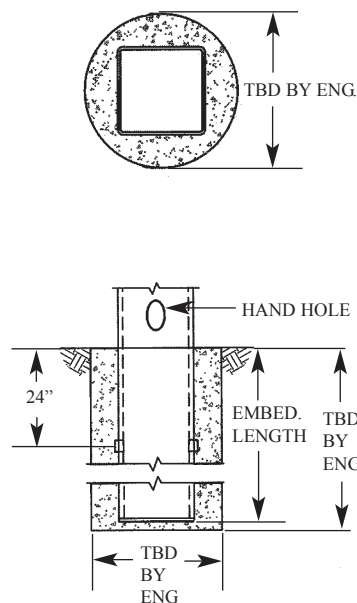
**STEEL SQUARE TAPERED EMBED**



**BEARING PLATE**



**ANCHOR BASE DATA**



**STRUCTURAL DESIGN**

Steel poles are designed for the combined effects of both wind and dead load. The wind load effects have been analyzed with wind velocities ranging from 70 to 120 mph plus a 1.3 gust factor. Due to varying wind effects, height correction factors and drag coefficients have been applied to the entire structure. The dead load effects have been determined by using a final deflected position analysis to account for secondary moments caused by eccentric dead loads.

**MATERIALS**

All Steel pole shafts are made from a single ply steel sheet. This sheet is formed into a tubular shape with one or more longitudinal welds, no weld splices are permitted. This tubular shape has a cross section which is either round or square and is either tapered or non tapered along its length. Standard taper rates include 0.11 inches per foot for square poles and 0.14 inches per foot for round poles. Materials used for the pole shafts meets the requirements of ASTM A500 Grade-C, ASTM A595 Grade A, or ASTM A-572 GR. 65. Poles which exceed 50 feet in length, are designed as two-piece assemblies. These two-piece assemblies are joined together telescoping the upper female section over the lower male section by a minimum lap distance of 1.5 times the female inside diameter. The longitudinally weld seam on the female section is welded both inside and out to insure 100% weld penetration at the telescoped area. Pole assemblies, which exceed 50 feet in height, are also designed with an internal cable guide and strain relief mechanism, which is typically attached at the mid-height of the pole assembly.

**EMBEDDED**

Embedded poles will be set directly into ground by an embedment distance which is equal to 10% of the free pole height plus 2 feet within a minimum embedment depth of not less than 5'-0". The embedded pole will not utilize a stub base or base plates as an anchoring means, but will rest upon a bearing plate which is integrally welded to the bottom of the pole shaft. The embedded portion of the pole plus 6" will be additionally protected with a mastic coating. The 3"x5" hand holes located 24" below grade and oriented at 180 degrees apart will provide for wire access.

## ORDERING LOGIG

<b>Square Tapered (Embedded)</b>							
<b>Catalog Number</b>	<b>Gross Weight (Lbs)</b>	<b>STRUCTURE DATA</b>					
		<b>Pole Shaft Data</b>					
		<b>Section</b>	<b>Base Width (in)</b>	<b>Top Width (in)</b>	<b>Wall Thick (in)</b>	<b>Shaft Length (ft)</b>	<b>Embed Length (ft)</b>
<b>SL-STSP-20-61-E2-EM</b>	<b>194</b>	<b>Base</b>	<b>6.1</b>	<b>3.4</b>	<b>.1196</b>	<b>25</b>	<b>5.00</b>
<b>SL-STSP-20-61-N2-EM</b>	<b>286</b>	<b>Base</b>	<b>6.1</b>	<b>3.4</b>	<b>.1793</b>	<b>25</b>	<b>5.00</b>
<b>SL-STSP-25-66-E2-EM</b>	<b>243</b>	<b>Base</b>	<b>6.6</b>	<b>3.3</b>	<b>.1196</b>	<b>30</b>	<b>5.00</b>
<b>SL-STSP-25-66-N2-EM</b>	<b>361</b>	<b>Base</b>	<b>6.6</b>	<b>3.3</b>	<b>.1793</b>	<b>30</b>	<b>5.00</b>
<b>SL-STSP-30-72-E2-EM</b>	<b>303</b>	<b>Base</b>	<b>7.2</b>	<b>3.4</b>	<b>.1196</b>	<b>35</b>	<b>5.00</b>
<b>SL-STSP-30-72-N2-EM</b>	<b>449</b>	<b>Base</b>	<b>7.2</b>	<b>3.4</b>	<b>.1793</b>	<b>35</b>	<b>5.00</b>
<b>SL-STSP-35-85-E2-EM</b>	<b>421</b>	<b>Base</b>	<b>8.5</b>	<b>4.0</b>	<b>.1196</b>	<b>41</b>	<b>6.00</b>
<b>SL-STSP-35-85-N2-EM</b>	<b>626</b>	<b>Base</b>	<b>8.5</b>	<b>4.0</b>	<b>.1793</b>	<b>41</b>	<b>6.00</b>

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