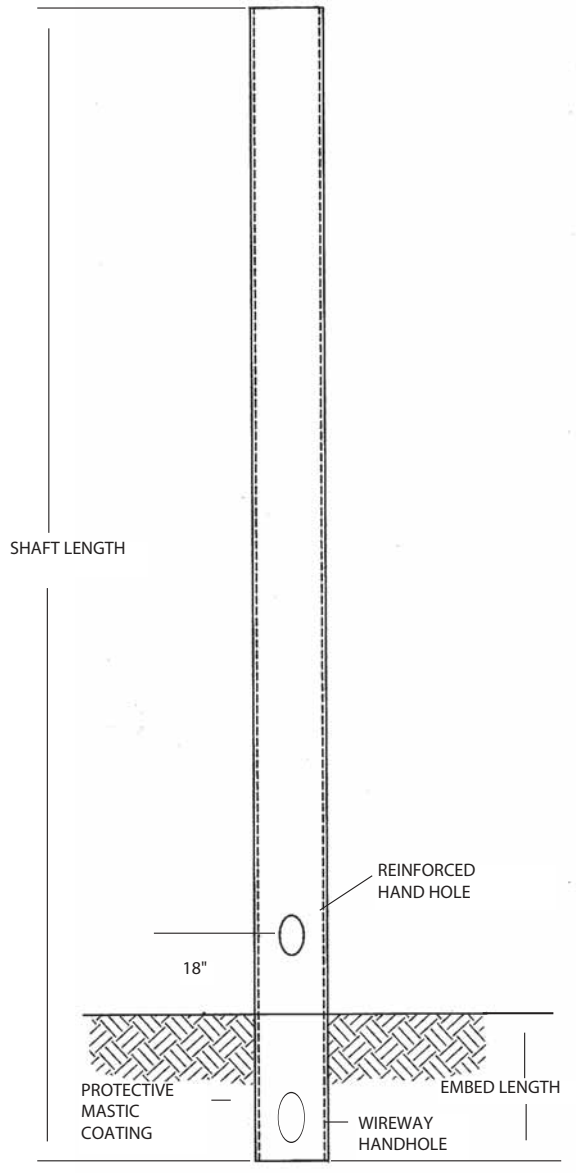
POLE/STEEL

SEQUOIA LIGHTING SYSTEMS

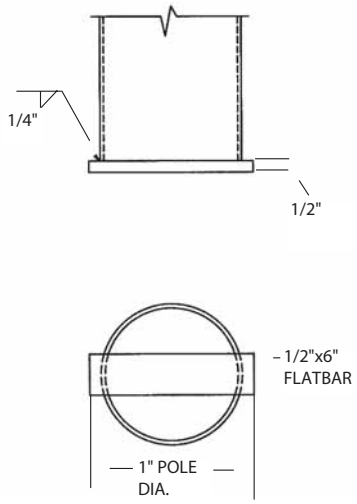
ROUND NON-TAP EMBED.

DESIGN
PS01

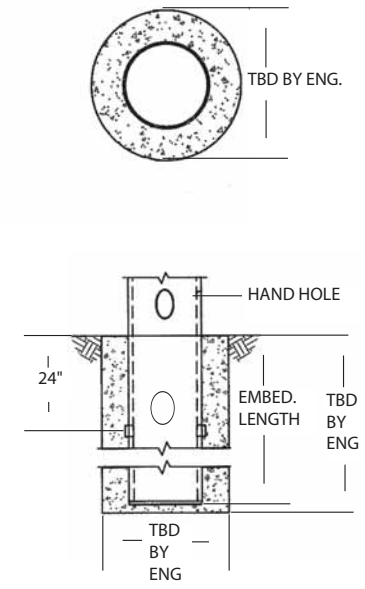
ROUND NON TAPERED EMBEDED



BEARING PLATE



EMBEDDED DATA



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.

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

SEQUOIA LIGHTING
CORPORATION

MANUFACTURERS OF QUALITY LIGHTING PRODUCTS

13644 George Blvd, Suite 1, Victorville, CA, 92394 (760) 246-5213 FAX (760) 246-5294 www.sequoialighting.com

ORDERING LOGIC

Round Non-Tapered (Embedded)

Catalog Number	Gross Weight (Lbs)	STRUCTURE DATA					
		Pole Shaft Data					
		Section	Base Width (in)	Top Width (in)	Wall Thick (in)	Shaft Length (ft)	Embed Length (ft)
SL-RNSP-10-45-B3-EM	116	Base	4.5	4.5	.1563	15	5
SL-RNSP-12-45-B3-EM	131	Base	4.5	4.5	.1563	17	5
SL-RNSP-14-45-B3-EM	147	Base	4.5	4.5	.1563	19	5
SL-RNSP-15-45-B3-EM	154	Base	4.5	4.5	.1563	20	5
SL-RNSP-16-45-B3-EM	162	Base	4.5	4.5	.1563	21	5
SL-RNSP-18-45-B3-EM	177	Base	4.5	4.5	.1563	23	5
SL-RNSP-20-45-B3-EM	193	Base	4.5	4.5	.1563	25	5
SL-RNSP-20-50-B3-EM	238	Base	5.6	5.6	.1563	25	5
SL-RNSP-25-45-B3-EM	231	Base	4.5	4.5	.1563	30	5
SL-RNSP-25-50-B3-EM	286	Base	5.6	5.6	.1563	30	5
SL-RNSP-25-50-V3-EM	343	Base	5.6	5.6	.1875	30	5
SL-RNSP-25-60-B3-EM	341	Base	6.6	6.6	.1563	30	5
SL-RNSP-25-60-V3-EM	409	Base	6.6	6.6	.1875	30	5
SL-RNSP-30-50-B3-EM	334	Base	5.6	5.6	.1563	35	5
SL-RNSP-30-50-V3-EM	400	Base	5.6	5.6	.1875	35	5
SL-RNSP-30-60-V3-EM	477	Base	6.6	6.6	.1875	35	5
SL-RNSP-35-50-V3-EM	469	Base	5.6	5.6	.1875	41	6
SL-RNSP-35-60-V3-EM	559	Base	6.6	6.6	.1875	41	6

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