



MAVERICK POLES AND STRUCTURE, LLC  
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## Key to Selecting Pole Standards

**RTSP - 30 - 77 - E2 - AB - FP(WH) - DM19 - XX**

Category	Pole Height	Wall Thickness	Finish	Standard Drilling Patterns	Optional Features**
<b>RTSP</b> – Round Tapered Steel Pole  <b>RNSP</b> – Round Non-tapered Steel Pole  <b>STSP</b> – Square Tapered Steel Pole  <b>SNSP</b> – Square Non-tapered Steel Pole  <b>STHP</b> – Square Tapered Hinged Pole  <b>SNHP</b> – Square Non-tapered Hinged Pole	10 = 10' 20 = 20' 25 = 25' 30 = 30' 35 = 35' 40 = 40' 45 = 45' 50 = 50' 60 = 60' 70 = 70'  <b>Base Diameter or Width</b> 63 – 6.3" 70 – 7.0" 77 – 7.7" 84 – 8.4" 90 – 9.0" 10 – 10.0" etc....	E – 0.1196" B – 0.1560" N – 0.1793" V – 0.1875" H – 0.2500"  <b>Material Yield Strength</b> 1 – 65 ksi 2 – 55 ksi 3 – 46 ksi  <b>Base Type</b> AB – Anchor Base EM – Embedded LAB – Less Anchor Bolts+	GV – Galvanized *FP – Finish Painted *GP – Galv and Paint  <b>*Standard Colors</b> WH – White DB – Dark Bronze MB – Med Bronze AL – Aluminum BL – Black SP – Special	DM19 – 1 @ 90° DM28 – 2 @ 180° DM29 – 2 @ 90° DM32 – 3 @ 120° DM39 – 3 @ 90° DM49 – 4 @ 90°  <b>Standard Tenons</b> T20R – TEN-20-R5 T25R – TEN-25-R5 T30R – TEN-30-R5 T35R – TEN-35-R5 T30S – TEN-30-S5 T35S – TEN-35-S5 T40S – TEN-40-S5 T45S – TEN-45-S5	UP – Upswept Arm bracket SP – Spoke bracket FE – Festoon Box DU – Duplex receptacle GF – Ground Fault Interrupt VB – Vibration Damper BC – Breakaway couplings TB – Transformer Base FB – Full Base Cover NC – Nut Covers CA – Cross Arm BH – Bullhorn Bracket LP – Lightning Protection OL – Obstruction Lights

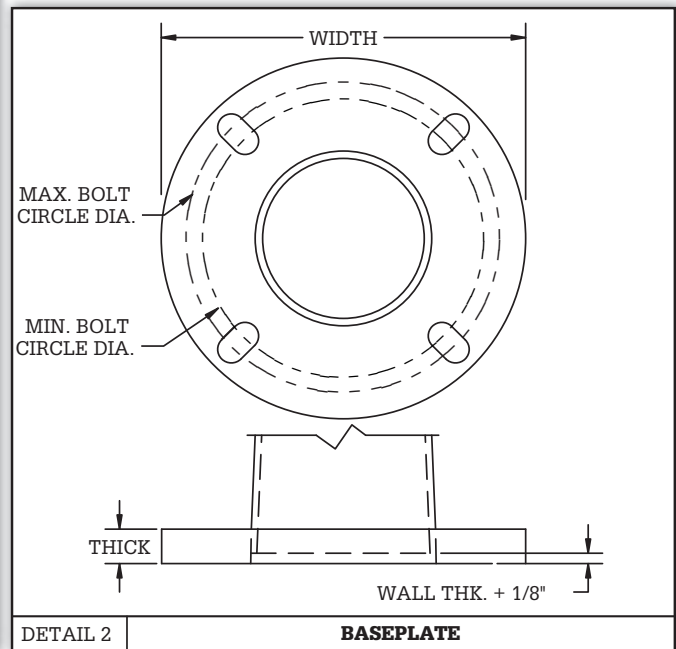
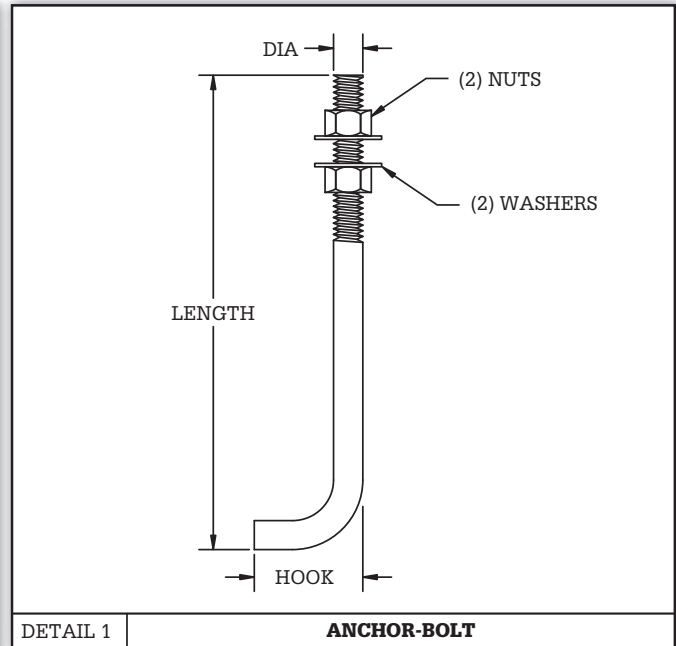
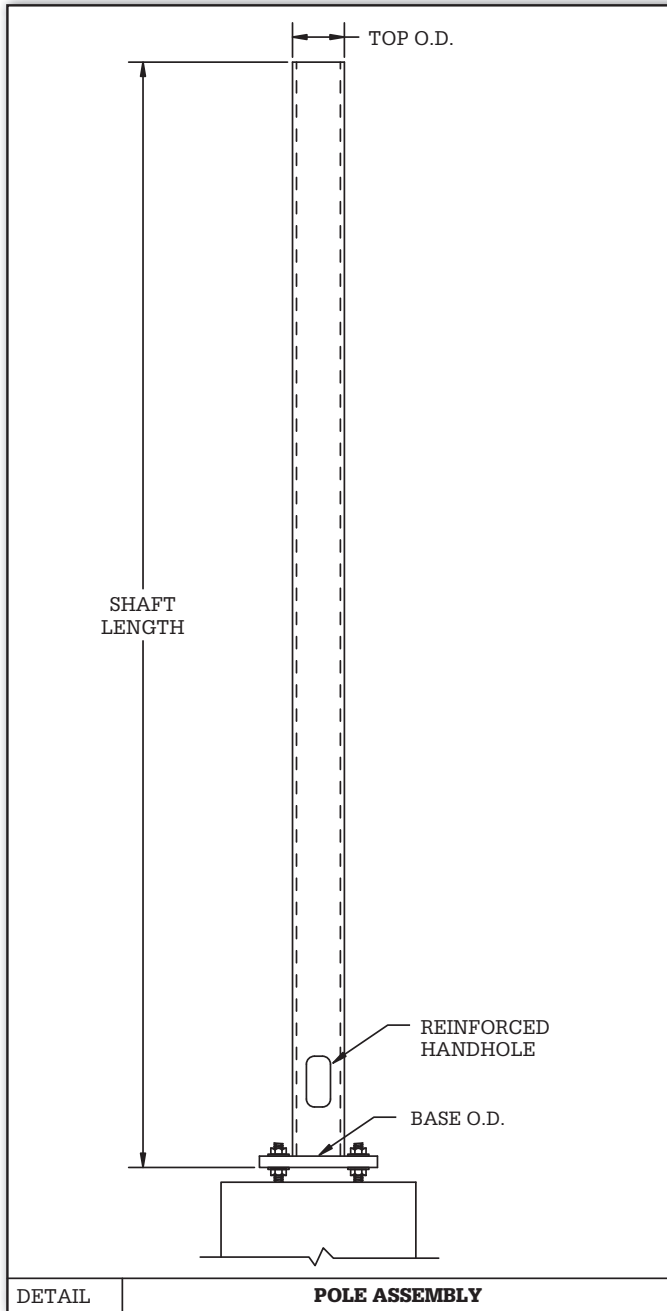
\*\* Please order accessories per catalog number as a separate line item. Also, please specify quantities, mounting heights and orientations as necessary.

+ Please specify existing situation or special circumstance.

### SIX FACTORS ESSENTIAL TO SELECTING THE OPTIMUM STANDARD

- Pole Height** – The pole height will be determined by the lighting requirements as specified by the project designer. These lighting requirements will cause variance in the pole height, which is dependent upon fixture types, lighting level and uniformity requirements.
- Wind Velocity** - The wind velocity shall be determined from either the project specifications or the wind velocity map on page 4-1. This wind velocity map is based upon a 50-year mean recurrence interval. The wind values shown on this map represent wind velocities at 30 feet above the ground. When a project location is sited between adjacent wind zones, the wind zone with the greater wind velocity should be used. Also, please be aware that special wind conditions may exist around mountainous areas or locations with unique terrain. Special design consideration should be given to such areas.
- EPA** - The EPA (Effective Projected Area) of the system should be computed by summing all of the EPA's of the external appurtenances, which are mounted on the pole. The EPA for lighting fixtures can be determined by referencing the appropriate manufacturer's catalog. EPA values for all brackets can be found in the appropriate table located in this catalog.
- Weight** – The weight of the system should be computed by summing all of the weights of the external appurtenances mounted on the pole. Weights of fixtures and brackets can be determined from the appropriate lighting fixture manufacturer's catalog and the appropriate table in this catalog respectively.
- Pole Duty Rating** - The pole duty rating should be determined by comparing the system EPA and weight with the EPA and weight capacities listed in the appropriate maximum loading table located within this catalog. The values detailed in this table reflect the maximum capacities of the respective poles and are based upon a loading centroid located at the top of the pole.
- Pole Base** - The pole base (Anchor Bolt or Embedded) is typically determined by the project specifications.

## Round Non-Tapered (Anchor Base)





## Round Non-Tapered (Anchor Base)

STRUCTURE DATA										
Catalog Number	Gross Weight (Lbs)	Pole Shaft Data				Base Plate Data			Anchor Bolt Data	
		Base O.D. (in)	Top O.D. (in)	Wall Thk. (in)	Shaft Length (ft)	Bolt Circle Range (in)	Plate O.D. (in)	Plate Thk. (in)	Dia x Lgth x Hk	Anchor Bolt Template Number
RNSP-10-45-B3-AB	97	4.5	4.5	0.1563	10	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-12-45-B3-AB	112	4.5	4.5	0.1563	12	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-14-45-B3-AB	129	4.5	4.5	0.1563	14	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-15-45-B3-AB	136	4.5	4.5	0.1563	15	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-16-45-B3-AB	144	4.5	4.5	0.1563	16	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-18-45-B3-AB	160	4.5	4.5	0.1563	18	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-20-45-B3-AB	175	4.5	4.5	0.1563	20	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-20-56-B3-AB	216	5.6	5.6	0.1563	20	8.0 to 9.0	11.00	0.75	.75 x 30 x 3	ABT-850-4
RNSP-25-45-B3-AB	214	4.5	4.5	0.1563	25	7.5 to 8.5	10.00	0.75	.75 x 30 x 3	ABT-800-4
RNSP-25-56-B3-AB	265	5.6	5.6	0.1563	25	8.0 to 9.0	11.00	0.75	.75 x 30 x 3	ABT-850-4
RNSP-25-56-V3-AB	311	5.6	5.6	0.1875	25	8.0 to 9.0	11.00	0.75	1 x 36 x 4	ABT-850-4
RNSP-25-66-B3-AB	325	6.6	6.6	0.1563	25	9.0 to 10.0	12.00	1.00	.75 x 30 x 3	ABT-950-4
RNSP-25-66-V3-AB	379	6.6	6.6	0.1875	25	9.0 to 10.0	12.00	1.00	1 x 36 x 4	ABT-950-4
RNSP-30-56-B3-AB	314	5.6	5.6	0.1563	30	8.0 to 9.0	11.00	0.75	.75 x 30 x 3	ABT-850-4
RNSP-30-56-V3-AB	368	5.6	5.6	0.1875	30	8.0 to 9.0	11.00	0.75	1 x 36 x 4	ABT-850-4
RNSP-30-66-V3-AB	448	6.6	6.6	0.1875	30	9.0 to 10.0	12.00	1.00	1 x 36 x 4	ABT-950-4
RNSP-35-56-V3-AB	426	5.6	5.6	0.1875	35	8.0 to 9.0	11.00	0.75	1 x 36 x 4	ABT-850-4
RNSP-35-66-V3-AB	517	6.6	6.6	0.1875	35	9.0 to 10.0	12.00	1.00	1 x 36 x 4	ABT-950-4
RNSP-40-56-V3-AB	484	5.6	5.6	0.1875	40	8.0 to 9.0	11.00	0.75	1 x 36 x 4	ABT-850-4
RNSP-40-66-V3-AB	586	6.6	6.6	0.1875	40	9.0 to 10.0	12.00	1.00	1 x 36 x 4	ABT-950-4

STRUCTURE LOADING CAPACITIES												
Catalog Number	Maximum Loading											
	70 mph		80 mph		90 mph		100 mph		110 mph		120 mph	
	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)
RNSP-10-45-B3-AB					27.5	688	22.5	563	18.5	463	15.5	388
RNSP-12-45-B3-AB					22.5	563	18.0	450	15.0	375	12.5	313
RNSP-14-45-B3-AB					18.5	463	15.0	375	12.5	313	10.0	250
RNSP-15-45-B3-AB					16.5	413	13.5	338	11.0	275	9.0	225
RNSP-16-45-B3-AB					15.0	375	12.0	300	10.0	250	8.0	200
RNSP-18-45-B3-AB					12.5	313	10.0	250	8.0	200	6.5	163
RNSP-20-45-B3-AB					10.0	250	8.0	200	6.5	163	5.5	138
RNSP-20-56-B3-AB					18.0	450	14.5	363	11.5	288	9.5	238
RNSP-25-45-B3-AB					6.0	150	5.0	125	3.5	88	3.0	75
RNSP-25-56-B3-AB					12.0	300	9.5	238	7.5	188	6.0	150
RNSP-25-56-V3-AB					14.5	363	11.5	288	9.5	238	7.5	188
RNSP-25-66-B3-AB					19.0	475	15.0	375	12.0	300	9.5	238
RNSP-25-66-V3-AB					23.0	575	18.5	463	14.5	363	12.0	300
RNSP-30-56-B3-AB					8.0	200	6.5	163	5.0	125	4.0	100
RNSP-30-56-V3-AB					10.0	250	8.0	200	6.5	163	5.0	125
RNSP-30-66-V3-AB					16.5	413	13.0	325	10.5	263	8.0	200
RNSP-35-56-V3-AB					7.0	175	5.5	138	4.5	113	3.0	75
RNSP-35-66-V3-AB					12.5	313	9.5	238	7.5	188	5.5	138
RNSP-40-56-V3-AB					5.0	125	3.5	88	2.5	63	1.5	38
RNSP-40-66-V3-AB					9.5	238	7.0	175	5.0	125	3.5	88



## Round Non-Tapered (Anchor Base)

FOUNDATIONS (RNSP-AB)								
Catalog Number	Foundation Data						Anchor Bolt Data	
	Caisson Diameter (in)	Caisson Depth (ft)	Vert Rebar Qty	Vert Rebar Size	Concrete Volume (Cu Yds)	Steel Weight (lbs)	Dia x Lgth x Hk	Bolt Circle Range (in)
RNSP-10-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-12-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-14-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-15-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-16-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-18-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-20-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-20-56-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8.0 to 9.0
RNSP-25-45-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	7.5 to 8.5
RNSP-25-56-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8.0 to 9.0
RNSP-25-56-V3-AB	24	5.00	8	#5	0.58	59	1 x 36 x 4	8.0 to 9.0
RNSP-25-66-B3-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	9.0 to 10.0
RNSP-25-66-V3-AB	24	5.00	8	#5	0.58	59	1 x 36 x 4	9.0 to 10.0
RNSP-30-56-B3-AB	24	6.00	8	#6	0.70	91	.75 x 30 x 3	8.0 to 9.0
RNSP-30-56-V3-AB	24	6.00	8	#6	0.70	91	1 x 36 x 4	8.0 to 9.0
RNSP-30-66-V3-AB	24	6.00	8	#6	0.70	91	1 x 36 x 4	9.0 to 10.0
RNSP-35-56-V3-AB	24	6.00	10	#6	0.70	108	1 x 36 x 4	8.0 to 9.0
RNSP-35-66-V3-AB	24	6.00	10	#6	0.70	108	1 x 36 x 4	9.0 to 10.0
RNSP-40-56-V3-AB	24	7.00	12	#6	0.81	147	1 x 36 x 4	8.0 to 9.0
RNSP-40-66-V3-AB	24	7.00	12	#6	0.81	147	1 x 36 x 4	9.0 to 10.0

- Notes:
- The above information is for estimating purposes only. Do not use for construction.
  - Analysis is based upon Brom's method of foundation design.
  - All of the designs are based upon the following soil parameters:
    - Soil is homogeneous, non-cohesive
    - $\phi = 30$  degrees
    - $\gamma = 110$  pcf.
    - Water table is below bottom of foundation.
    - Site grade is 7H:1V or flatter.
  - Concrete 28 day compressive strength = 3000 psi.
  - Reinforcing meets the requirements of ASTM A615 grade 60.
  - Concrete design is in accordance with ACI 318-95.
  - Concrete is cast against undisturbed soil.
  - All reinforcing must be covered by a minimum of 3" of concrete on all sides.
  - All vertical reinforcing bars are equally spaced.
  - #4 reinforcing bars are used as hoops and are spaced on 12" centers.

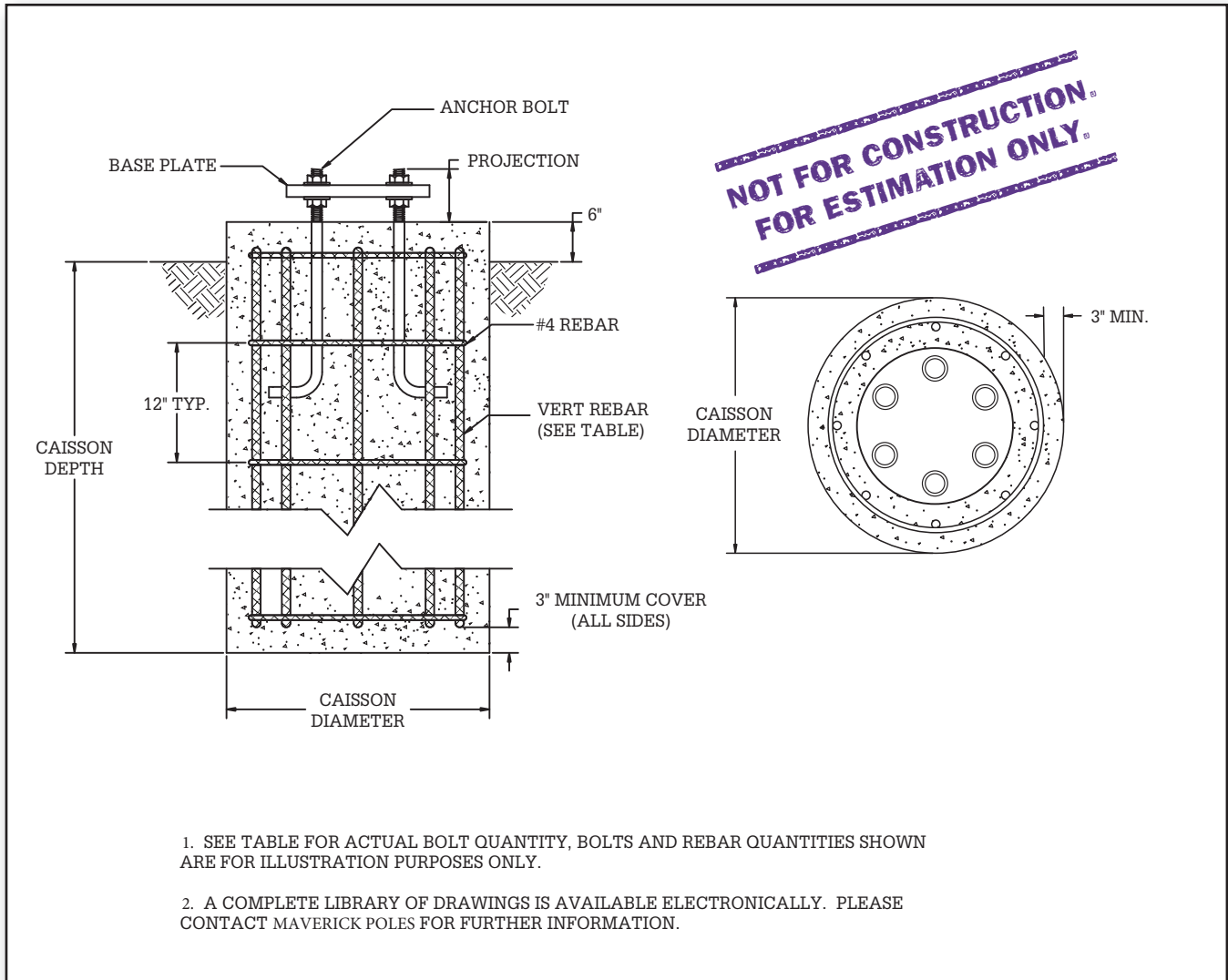
**NOT FOR CONSTRUCTION  
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The information above is provided for preliminary estimating use only and may not be used as final or construction designs. Maverick Poles makes no warranty of any type with respect to such information. Final designs will vary with soil, environmental and other conditions. Any final design must be created, reviewed and approved by customer's licensed engineer

Maverick Poles grants customer the right to use the above information solely for customer's internal estimating purposes and not for any other purpose. No right is granted to reproduce or redistribute this information in any form.

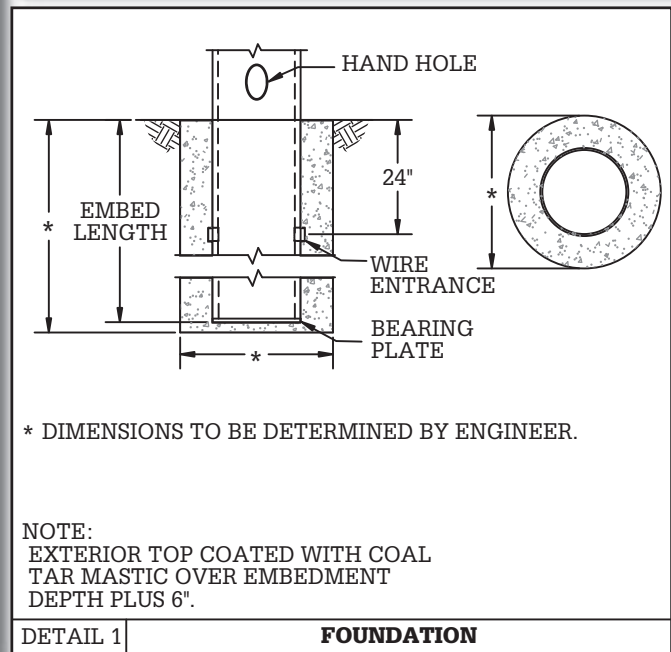
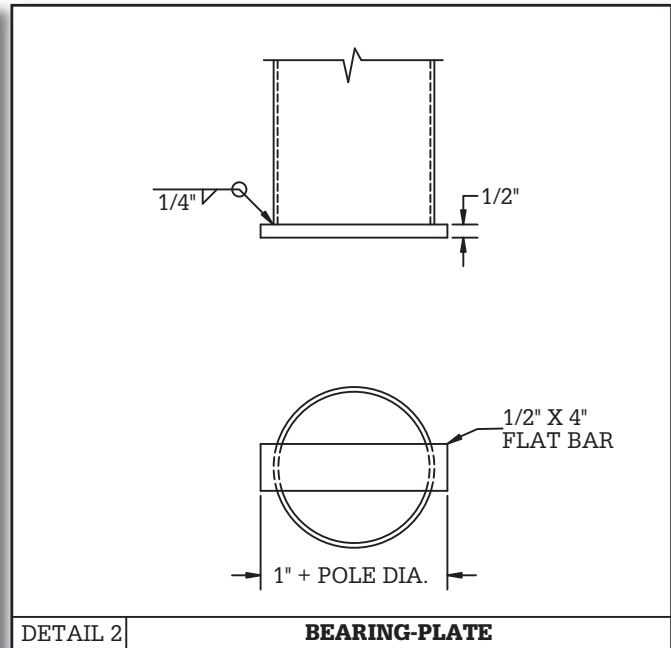
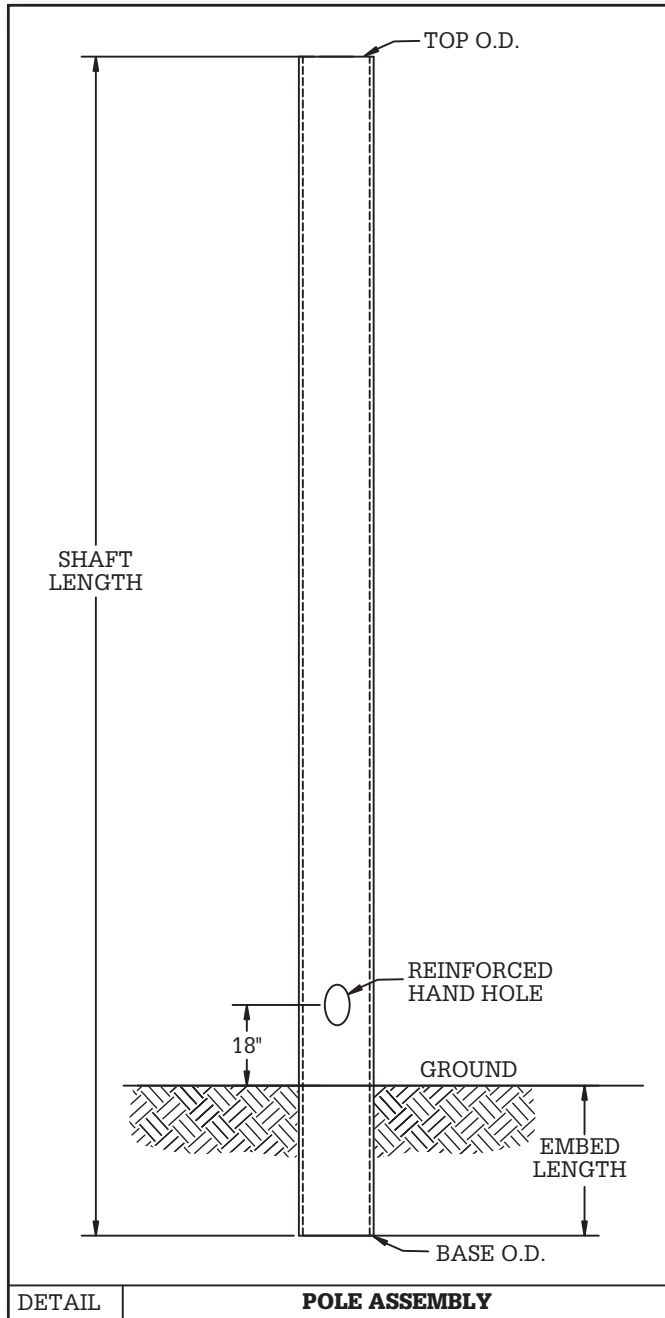


## Round Non-Tapered (Anchor Base)



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## Round Non-Tapered (Embedded)





## Round Non-Tapered (Embedded)

STRUCTURE DATA						
Catalog Number	Gross Weight (Lbs)	Pole Shaft Data				
		Base O.D. (in)	Top O.D. (in)	Wall Thk. (in)	Shaft Length (ft)	Embed Length (ft)
RNSP-10-45-B3-EM	116	4.5	4.5	0.1563	15	5
RNSP-12-45-B3-EM	131	4.5	4.5	0.1563	17	5
RNSP-14-45-B3-EM	147	4.5	4.5	0.1563	19	5
RNSP-15-45-B3-EM	154	4.5	4.5	0.1563	20	5
RNSP-16-45-B3-EM	162	4.5	4.5	0.1563	21	5
RNSP-18-45-B3-EM	177	4.5	4.5	0.1563	23	5
RNSP-20-45-B3-EM	193	4.5	4.5	0.1563	25	5
RNSP-20-56-B3-EM	238	5.6	5.6	0.1563	25	5
RNSP-25-45-B3-EM	231	4.5	4.5	0.1563	30	5
RNSP-25-56-B3-EM	286	5.6	5.6	0.1563	30	5
RNSP-25-56-V3-EM	343	5.6	5.6	0.1875	30	5
RNSP-25-66-B3-EM	341	6.6	6.6	0.1563	30	5
RNSP-25-66-V3-EM	409	6.6	6.6	0.1875	30	5
RNSP-30-56-B3-EM	334	5.6	5.6	0.1563	35	5
RNSP-30-56-V3-EM	400	5.6	5.6	0.1875	35	5
RNSP-30-66-V3-EM	477	6.6	6.6	0.1875	35	5
RNSP-35-56-V3-EM	469	5.6	5.6	0.1875	41	6
RNSP-35-66-V3-EM	559	6.6	6.6	0.1875	41	6

STRUCTURE LOADING CAPACITIES												
Catalog Number	Maximum Loading											
	70 mph		80 mph		90 mph		100 mph		110 mph		120 mph	
	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)
RNSP-10-45-B3-EM					27.5	688	22.5	563	18.5	463	15.5	388
RNSP-12-45-B3-EM					22.5	563	18.0	450	15.0	375	12.5	313
RNSP-14-45-B3-EM					18.5	463	15.0	375	12.5	313	10.0	250
RNSP-15-45-B3-EM					16.5	413	13.5	338	11.0	275	9.0	225
RNSP-16-45-B3-EM					15.0	375	12.0	300	10.0	250	8.0	200
RNSP-18-45-B3-EM					12.5	313	10.0	250	8.0	200	6.5	163
RNSP-20-45-B3-EM					10.0	250	8.0	200	6.5	163	5.5	138
RNSP-20-56-B3-EM					18.0	450	14.5	363	11.5	288	9.5	238
RNSP-25-45-B3-EM					6.0	150	5.0	125	3.5	88	3.0	75
RNSP-25-56-B3-EM					12.0	300	9.5	238	7.5	188	6.0	150
RNSP-25-56-V3-EM					14.5	363	11.5	288	9.5	238	7.5	188
RNSP-25-66-B3-EM					19.0	475	15.0	375	12.0	300	9.5	238
RNSP-25-66-V3-EM					23.0	575	18.5	463	14.5	363	12.0	300
RNSP-30-56-B3-EM					8.0	200	6.5	163	5.0	125	4.0	100
RNSP-30-56-V3-EM					10.0	250	8.0	200	6.5	163	5.0	125
RNSP-30-66-V3-EM					16.5	413	13.0	325	10.5	263	8.0	200
RNSP-35-56-V3-EM					7.0	175	5.5	138	4.5	113	3.0	75
RNSP-35-66-V3-EM					12.5	313	9.5	238	7.5	188	5.5	138



## Round Non-Tapered (Embedded)

FOUNDATIONS (RNSP-EM)									
Catalog Number	Pole Shaft Data						Foundation Data		
	Gross Weight (Lbs)	Base O.D. (in)	Top O.D. (in)	Wall Thk. (in)	Shaft Length (ft)	Embed Length (ft)	Caisson Diameter (in)	Caisson Depth (ft)	Concrete Volume (Cu Yds)
RNSP-10-45-B3-EM	116	4.5	4.5	0.1563	15	5	24	5	0.58
RNSP-12-45-B3-EM	131	4.5	4.5	0.1563	17	5	24	5	0.58
RNSP-14-45-B3-EM	147	4.5	4.5	0.1563	19	5	24	5	0.58
RNSP-15-45-B3-EM	154	4.5	4.5	0.1563	20	5	24	5	0.58
RNSP-16-45-B3-EM	162	4.5	4.5	0.1563	21	5	24	5	0.58
RNSP-18-45-B3-EM	177	4.5	4.5	0.1563	23	5	24	5	0.58
RNSP-20-45-B3-EM	193	4.5	4.5	0.1563	25	5	24	5	0.58
RNSP-20-56-B3-EM	238	5.6	5.6	0.1563	25	5	24	5	0.58
RNSP-25-45-B3-EM	231	4.5	4.5	0.1563	30	5	24	5	0.58
RNSP-25-56-B3-EM	286	5.6	5.6	0.1563	30	5	24	5	0.58
RNSP-25-56-V3-EM	343	5.6	5.6	0.1875	30	5	24	5	0.58
RNSP-25-66-B3-EM	341	6.6	6.6	0.1563	30	5	24	5	0.58
RNSP-25-66-V3-EM	409	6.6	6.6	0.1875	30	5	24	5	0.58
RNSP-30-56-B3-EM	334	5.6	5.6	0.1563	35	5	24	5	0.58
RNSP-30-56-V3-EM	400	5.6	5.6	0.1875	35	5	24	5	0.58
RNSP-30-66-V3-EM	477	6.6	6.6	0.1875	35	5	24	5	0.58
RNSP-35-56-V3-EM	469	5.6	5.6	0.1875	41	6	24	6	0.70
RNSP-35-66-V3-EM	559	6.6	6.6	0.1875	41	6	24	6	0.70

- Notes: 1. The above information is for estimating purposes only. Do not use for construction.  
 2. Analysis is based upon Brom's method of foundation design.  
 3. All of the designs are based upon the following soil parameters:  
 a. Soil is homogeneous, non-cohesive  
 b.  $\phi = 30$  degrees  
 c.  $\gamma = 110$  pcf.  
 d. Water table is below bottom of foundation.  
 e. Site grade is 7H:1V or flatter.  
 4. Concrete 28 day compressive strength = 3000 psi.  
 5. Concrete design is in accordance with ACI 318-95.  
 6. Concrete is cast against undisturbed soil.

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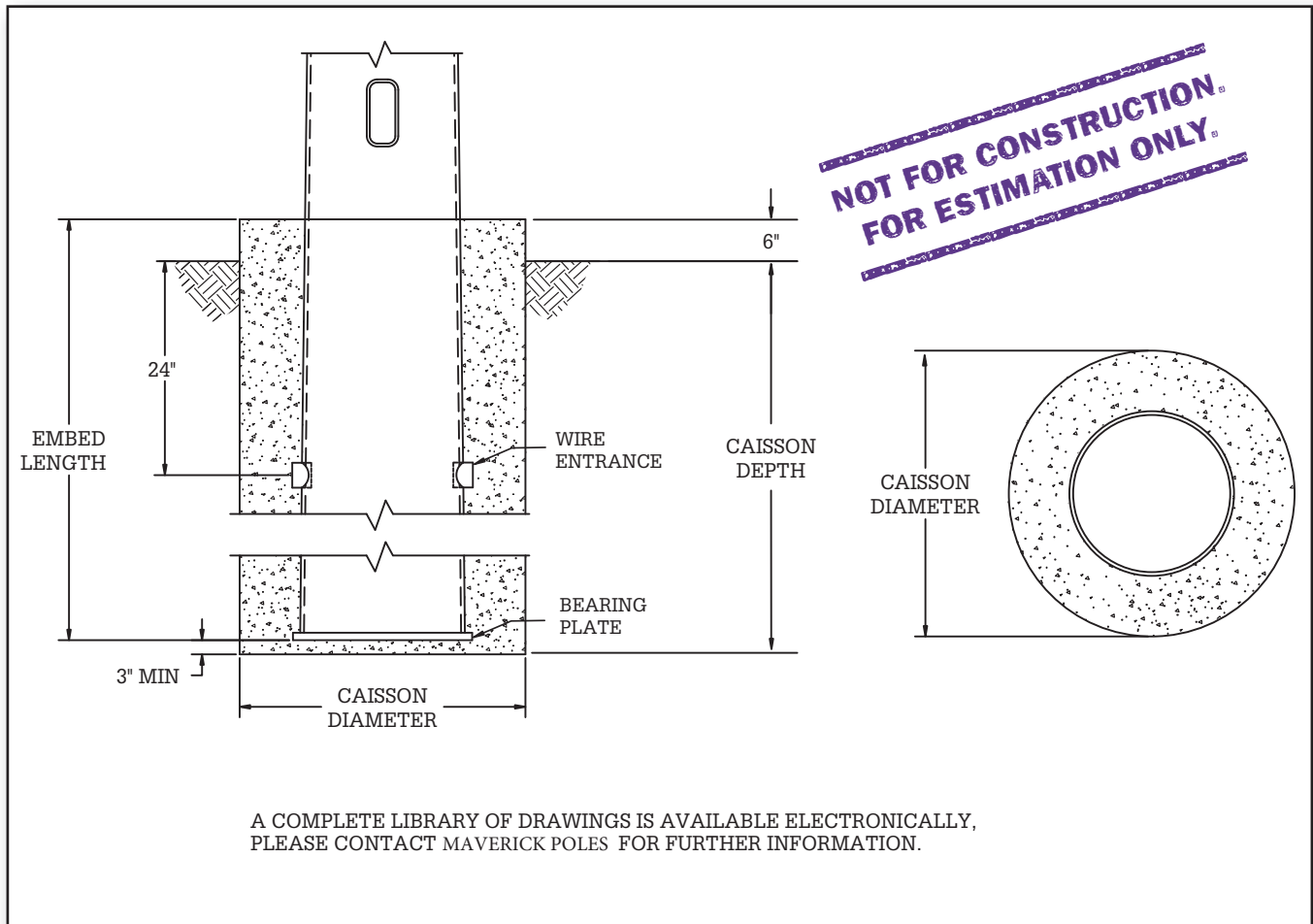
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## Round Non-Tapered (Embedded)



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