



## BILL OF MATERIAL

Bar	. No.	Size	Length	Shape
sp15(E)	7	#4	*14'~8"	MMM
sp16(E)	23	#4	*15'-8"	MMM
sp17(E)	25	#4	*16'-8"	WW
	100			
			-	
	-			
v28(E)	126	#11	14'-8"	
v29(E)	414	#11	15'-8"	
v30(E)	450	#11	16'-8"	
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\* Length is height of spiral

## NOTES:

SECTION B-B

- 1. The anchor rods shall be vertical, No adjustment shall be 13. Splices for spiral reinforcement shall be lap spliced allowed after the foundation is placed.
- 2. The gap between the foundation and the base plate shall be enclosed with a stainless steel base screen fastened with a stainless steel band.
- 3. The top of the foundation to 18" below grade shall be formed.
- 4. Surface water will not be permitted to enter the hole and all water which may have infiltrated into the hole shall be removed before placing concrete.
- 5. The light tower shall not be erected until after the concrete has been cured according to article 1020.13. of the Standard Specifications.
- 6. Anchor rods shall be straight and shall be according to AASHTO M 314 or ASTM F1554, Grade 725 (Grade 105) and galvanized according to Article 1006.09 of the Standard Specifications,
- 7. Anchor rod information shall be submitted for approval and shall be fully coordinated for approval with tower manufacturer requirements.
- 8. Reinforcement bars shall be according to Article 1006.10. of the Standard Specifications.
- 9. Two anchor rods opposite each other shall have the anchor rod threads peened after nuts are installed.
- 10. For caisson elevations and dimensions see Sheet S-3.
- 11. For anchor Rod cage details see Drawing ED-9.
- 12. For ground rod details see Electrical drawings.

- 2'-0" min or welded.
- 14. Elevations, Caisson shaft Lengths and reinforcements are approximate and should be verified and adjusted in field as directed by The Engineer,
- 15. The Shaft Lengths shall be based on soil borings in the plans. If different soils are encountered, the Engineer shall be notified to provide a revised length.
- 16. If field conditions dictate a shorter Caisson Shaft Length than shown in the table, the Contractor shall notify the Engineer regarding the proposed modification and cut the reinforcement bars to the required length. If the Caisson Shaft Length is longer than indicated, the Contractor may raise the bars a maximum of 1'-0" above the bottom of Caisson shaft Elevation, Lap Splices are required for length increase in excess of 2'-0". The Length of the Vertical reinforcement bars shall be the length of the light Tower Foundation (L) minus 10". Cost included in the pay item for "Light Tower Foundation".
- 17. The cost of reinforcement shall be included in the cost of the foundation.
- .18. The Steel Anchor Rod forms shall not be removed for a minimum of 3 days after concrete is poured,
- 19. Anchor rod quantity, diameter and length shall be determined by the tower manufacturer and approved by the Engineer, each foundation shall have a minimum of 8
- 20. Coordinate the rod circle diameter of the tower with the diameter of the anchor rod cage.

**ELEVATION** SCALE : NTS

SER NAME = TKluegel DESIGNED MGB REVISED 90348-60F12-002-HML Foundation.dg CHECKED REVISED LOT SCALE = 1:1.33333 DRAWN MGB REVISED CHECKED REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

I-55 AT ARSENAL ROAD **GROUND MOUNTED HIGH MAST LIGHT TOWER DETAILS** SHEET NO. 2 OF 5 SHEETS

SECTION COUNTY TOTAL SHEE 99-2HB-2B-1 WILL 756 438 CONTRACT NO. 60F12 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT