LIGHT POLE FOUNDATION DEPTH TABLE 30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

| SOIL CONDITIONS | DESIGN DEPTH "D" OF FOUNDATION | |
|------------------------|--------------------------------|-------------------|
| | SINGLE ARM POLE | TWIN ARM POLE |
| SOFT CLAY | 11"-0"" | 12'-8'' |
| Qu = 0.375 TON/SO. FT. | (3,35 m) | (3.85 m) |
| MEDIUM CLAY | 9'-0" | 14'-10'' |
| Qu = 0.75 TON/SQ.FT | '- (2.74 m) | (4.52 m) |
| STIFF CLAY | 7'-6" | 8′-7″ |
| Qu = 1.50 TON/SO, FT. | (2.29 m) | (2 . 61 m) |
| LOOSE SAND | 9'-6" | 10'-7" |
| Ø : 34* | (2,90 m) | (3,22 m) |
| MEDIUM SAND | 9'-0" | 9'-10" |
| Ø = 31.5° | (2.74 m) | (2.99 m) |
| DENSE SAND | 8'-3" | 9'-7" |
| Ø = 40° | (2.51 m) | (2,91 m) |

6" (152.4)

%" T. X 4" DIA," WASHER, TACK WELDED

THREADED

<u>88</u>

5" (127.0)

TOP OF ANCHOR ROD

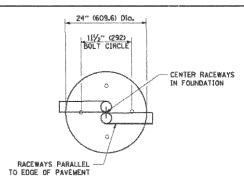
-4" (100) MAX.

GROUND LINE

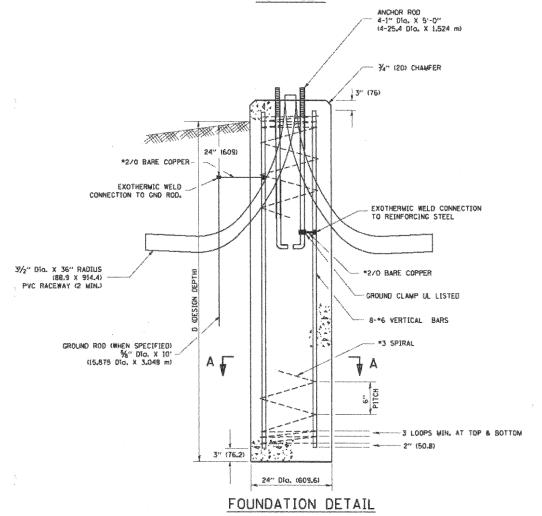
ANCHOR BOLT DETAIL

60" ((500)

FOUNDATION EXTENSION DETAIL



TOP VIEW



8-8* VERT.

SECTION A-A

NOTES

- 1. ALL DIMENSIONS ARE IN INCHES IMILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR ROOS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1,5 m) CHORD ACROSS THE FOUNDATION. WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- 5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ¾-IN. (20 mm).
- 6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED, THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD, A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTW F1554 GRADE 725 (GRADE 105), NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTW A 194 2H OR ASTW A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTW F 436.
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 LIMIG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT I" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

LTG-07

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USER NAME = \$USER\$ DESIGNED - BL REVISED SECTION COUNTY REVISED STATE OF ILLINOIS LIGHTING DETAILS \$FILEL\$ СООК 3513 10-00-111-00-LS CHECKED - MSA REVISED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = \$SCALE\$ CONTRACT NO. 63622 PLOT DATE = \$DATE\$ DATE - 06-17-11 REVISED SCALE: SHEET NO. OF SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT