

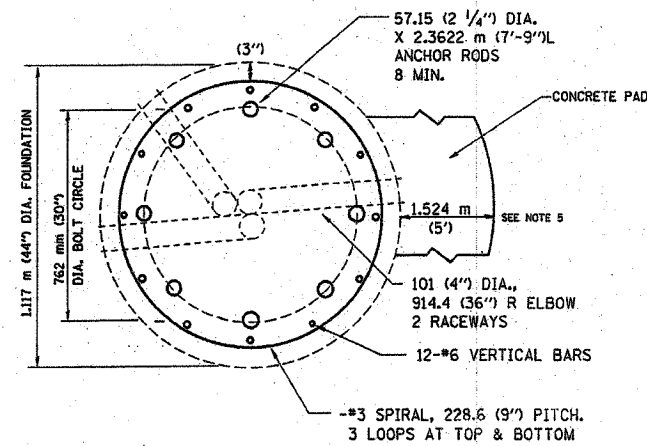
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|-----------------------|-----------|------------------|--------------|-----------|
| P. & S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 44/44 | 2003-0912 | COOK | 476 | 403 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT | | |
| 62583 | | | | |

LIGHT TOWER FOUNDATION DEPTH "D"

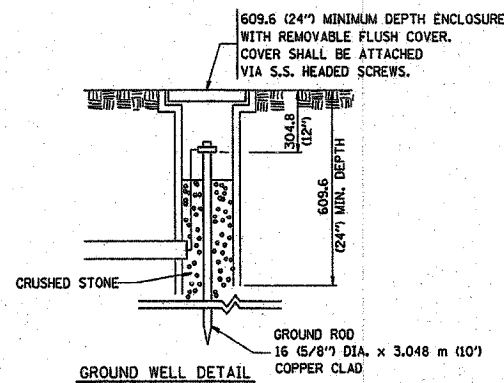
| MOUNTING HEIGHT | SOIL CONDITIONS | | | | | |
|-----------------|---------------------------------------|--|---------------------------------------|-----------------------|--------------------------|-----------------------|
| | SOFT CLAY Qu = 0.375 TON/SQ. FT | MEDIUM CLAY Qu = 0.75 TON/SQ. FT | STIFF CLAY Qu = 1.50 TON/SQ. FT | LOOSE SAND φ = 34° | MEDIUM SAND φ = 37.5° | DENSE SAND φ = 40° |
| 27m (90 ft) | 8.779m (29 ft) | 6.035m (20 ft) | 4.389m (15 ft) | 4.389m (15 ft) | 3.840m (13 ft) | 3.429m (12 ft) |
| 30m (100 ft) | 9.754m (32 ft) | 6.706m (22 ft) | 4.877m (16 ft) | 4.877m (16 ft) | 4.267m (14 ft) | 3.81m (13 ft) |
| 33m (110 ft) | 10.719m (35 ft) | 7.377m (24 ft) | 5.365m (18 ft) | 5.365m (18 ft) | 4.694m (15 ft) | 4.191m (14 ft) |
| 36m (120 ft) | 11.705m (38 ft) | 8.046m (26 ft) | 5.652m (19 ft) | 5.652m (19 ft) | 5.120m (17 ft) | 4.572m (16 ft) |

DESIGN NOTES

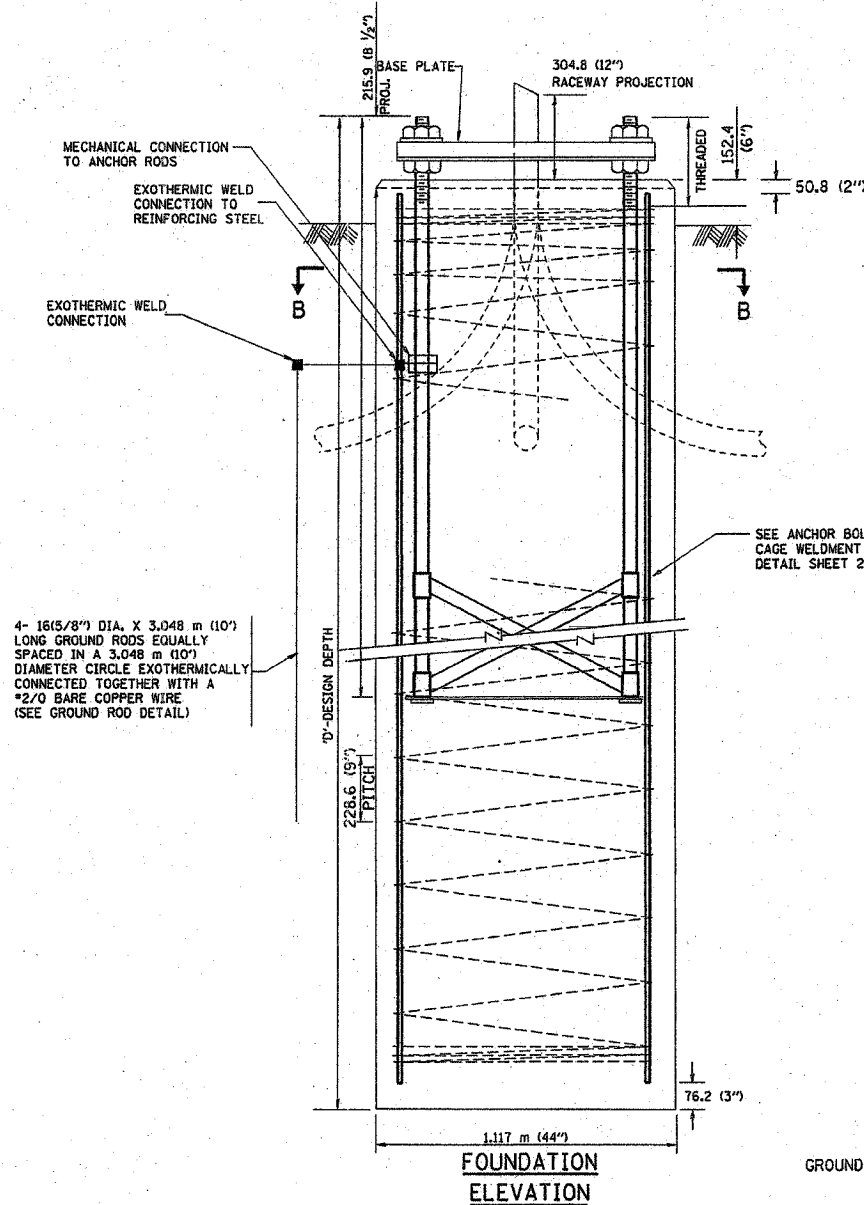
- (1) ALL DIMENSIONS IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN
- (2) THE HOLE FOR THE FOUNDATION SHALL BE ACCORDING
- (3) THE ANCHOR BOLTS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (4) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (5) THE TOP OF THE FOUNDATION TO 450 (18") BELOW GRADE SHALL BE FORMED.
- (6) A CONCRETE WORK PAD SHALL BE PROVIDED AS INDICATED IN THE PLANS AS A PART OF THIS ITEM.
- (7) 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.
- (8) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (9) 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 1006.9.
- (10) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- (11) REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (12) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.



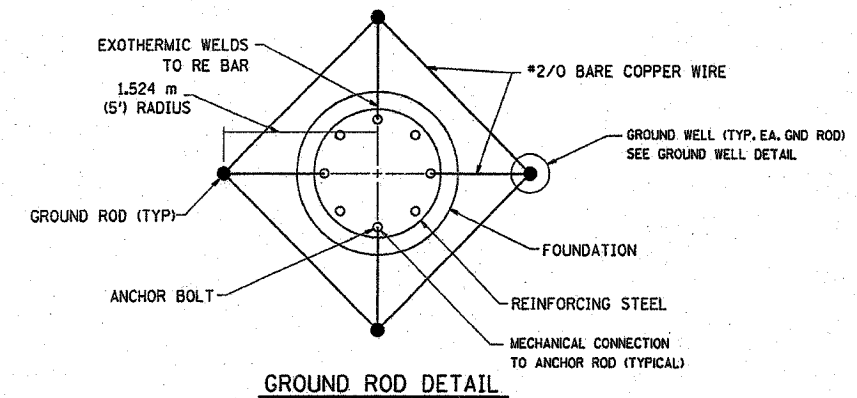
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |

BE501

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HIGH MAST LIGHT TOWER
27m TO 36m (90FT TO 120FT)
FOUNDATION DETAIL**

SHEET 1 OF 2

SCALE: NONE
DATE 3/22/01

DRAWN BY
CHECKED BY

OLD BE08 BE501