CONTRACT NO. 66294

| | | STEEL FOUNDATION | | CONCRETE FOUNDATION | | |
|-------------------|-------------------------------------|------------------------------------|-----------|---------------------|----------|------------|
| LIGHT POLE | BOLT CIRCLE | SHAFT | SHAFT | SHAFT | SHAFT | ANCHOR ROD |
| MOUNTING HEIGHT | DIAMETER | DIAMETER | DEPTH | DIAMETER | DEPTH | LENGTH * |
| <u><</u> 9.1 m | 292 mm | 220 mm | 1.83 m | 610mm | 1.52 m | 1.45 m |
| (30′) | (11 ¹ / ₂ '') | (8 ⁵ / ₈ ") | (6'-0'') | (24") | (5'-0'') | (4'-9'') |
| 9.4 m - 10.7 m | 292 mm | 220 mm | 1.83 m | 610mm | 1.67 m | 1.60 m |
| (31'-35') | (11 ¹ / ₂ ") | (8 ⁵ / ₈ ") | (6'-0'') | (24") | (5'-6'') | (5'-3'') |
| 10.9 m - 12.2 m | 381 mm | 220 mm | 1.83 m ** | 610mm | 1.83 m | 1.75 m |
| (36'-40') | (15'') | (8 ⁵ / ₈ ") | (6'-0'') | (24") | (6'-0'') | (5'-9'') |
| 12.5 m - 13.7 m | 381 mm | 220 mm | 1.83 m ** | 610mm | 1.98 m | 1.90 m |
| (41'-45') | (15″) | (8 ⁵ / ₈ ") | (6'-0") | (24") | (6'-6'') | (6'-3'') |
| 14.0 m - 15.2 m | 381 mm | 220 mm | 2.44 m | 610mm | 2.13m | 2.00 m |
| (46'-50') | (15") | (8 ⁵ / ₈ ′′) | (8'-0'') | (24″) | (7'-0'') | (6'-9'') |

Fill with fine

Two, $65 \times 305 (2 \frac{1}{2} \times 12)$ wiring windows

aggregate

Wireway location

Shaft dia. (See table)

Cutting

STEEL FOUNDATION

identification marks

 $-6(\frac{1}{4})$ Thick

Wireway location ____identification marks

Bolt circle diameter-

(See table)

610

381×381×25 (15×15×1) Fdn. top plate

* Length does not include 100(4)hook ** 220 mm x 2.44 m (85%"x 8'-0")for Twin luminaires

Finished grade

381 (15) O.D.

457 (18) O.D.

TOP VIEW

RING PLATE DETAIL (When rock is encountered

and foundation is shallower)

Notes:

125 (5) I.D. P.V.C. wiring window

Plate to be installed when required.

(See Ring Plate Detail)

Anchor rod shall extend through nut 10 to 25 $(\frac{3}{8}$ to 1). For barrier

or foundations located behind -

guardrail, use self-locking nut and flat washer. Do not use lock

washer. Length above foundation

shall be adjusted to accomodate breakaway devices furnished by the contractor for a specific

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.

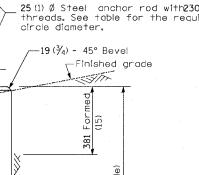
610 (24) min. dia.

Wireway may be on front, back, or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.

Top of schedule 40 PVC 125(5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.

75 (3) Min. concrete cover on all steel

25 (1) Ø Steel anchor rod with 230 (9) of threads. See table for the required bolt circle diameter.



#6 Bare copper

wire

See Ring

-STASTII Use dirt removed from foundation to meet 1.52m (5 ft.)chord fill around foundation top. Grade dirt level

chamfer.

with bottom of concrete 125 (5) I.D. P.V.C. wireway window. Fill with fine aggregate

*** If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6)

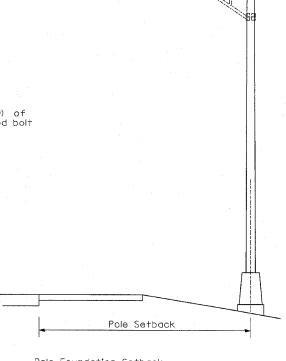
installation.

_230 (9) I.D. with 292 (11.5) bolt circle 305 (12)I.D. with 381 (15) bolt circle

16 mm \times 3 m ($\frac{5}{8}$ " \times 10") Coppercial grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

Cast bronze clamp

CONCRETE FOUNDATION



Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of $6.1~\text{m}\,(20')$ from edge

For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5′) behind guardrail or other protective barriers, or as directed by the Engineer.

LIGHT POLE FOUNDATION

LGT007-836

ILLINOIS DEPARTMENT OF TRANSPORTATION NAME DATE Bridge Office 0/7/02 FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE) LIGHTING STANDARDS LIGHT POLE FOUNDATION

SCALE: NONE

DRAWN BY: KGP/MAE CHECKED BY: MAE/PKG



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