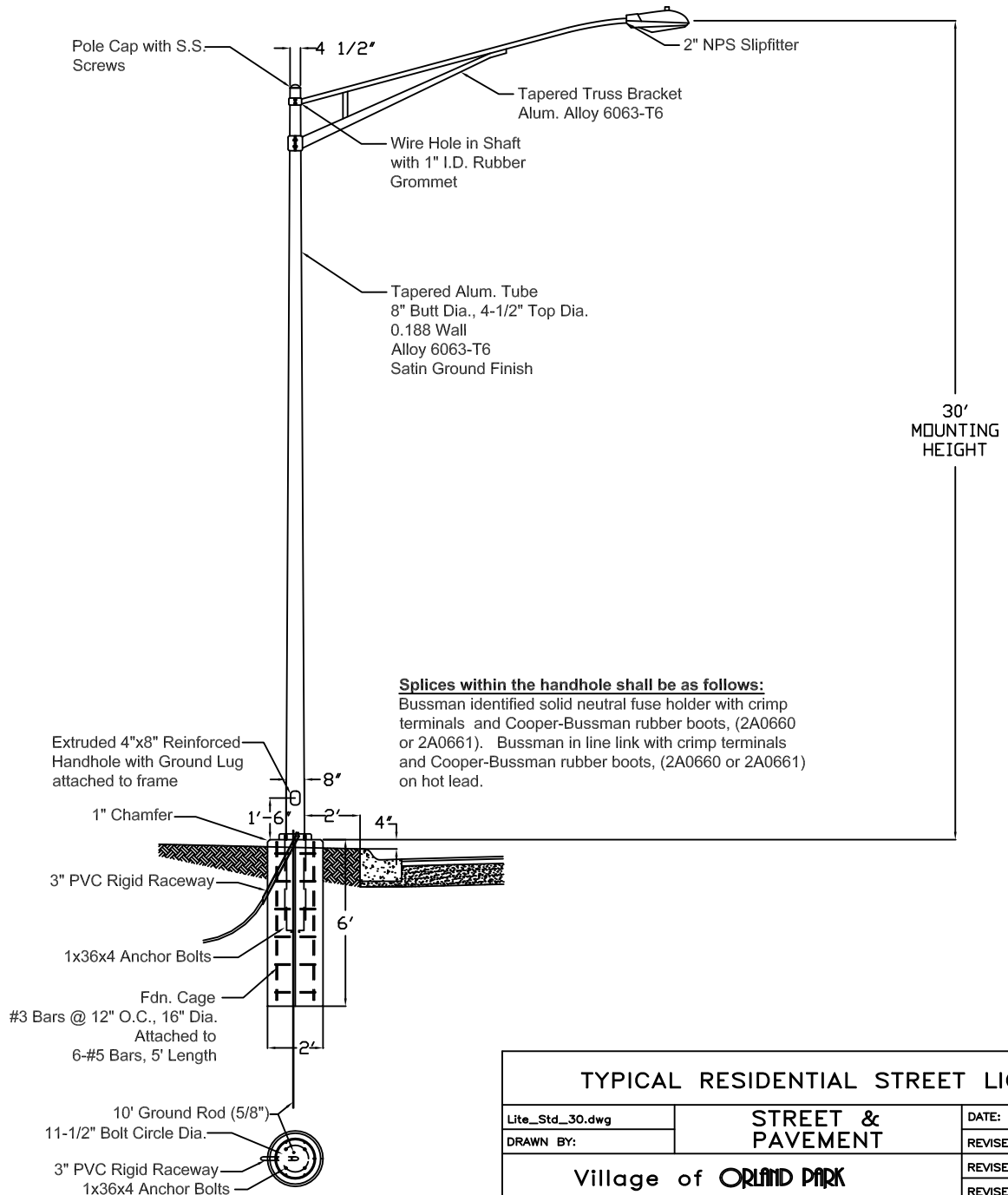


RESIDENTIAL STREET LIGHT

ROUND TAPERED ALUMINUM

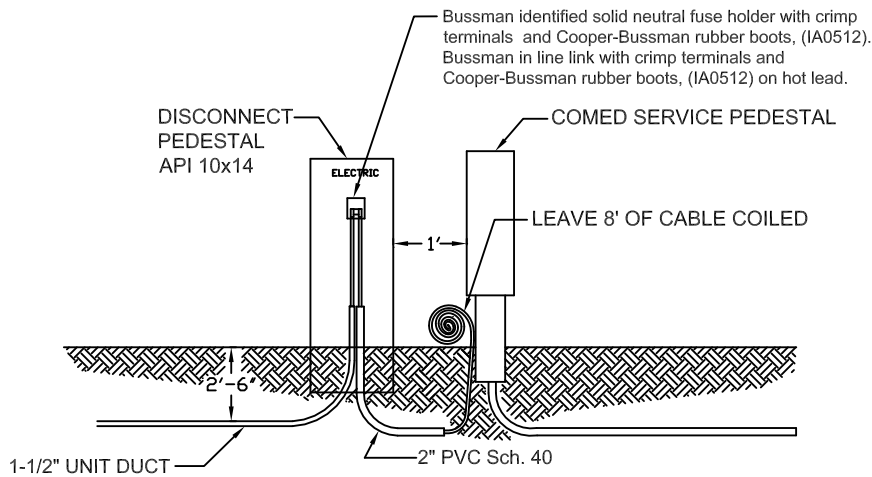
SINGLE TRUSS ARM-CLAMP ON

WATTAGE	VOLTAGE	MOUNTING HEIGHT	LOCATION	ARM LENGTH	LUMINAIRE LENS TYPE
250 w	120 volt	30'	Major Intersections w/County & State roadways.	12'-15'	Cobra Head (drop bowl)
150 w	120 volt	30'	All local roadway intersection in Subdivisions.	12'	Sharp Cutoff (flat lens)
150 w	120 volt	30'	Curves of Street	12'	Sharp Cutoff (flat lens)
150 w	120 volt	30'	Mid-block	12'	Sharp Cutoff (flat lens)

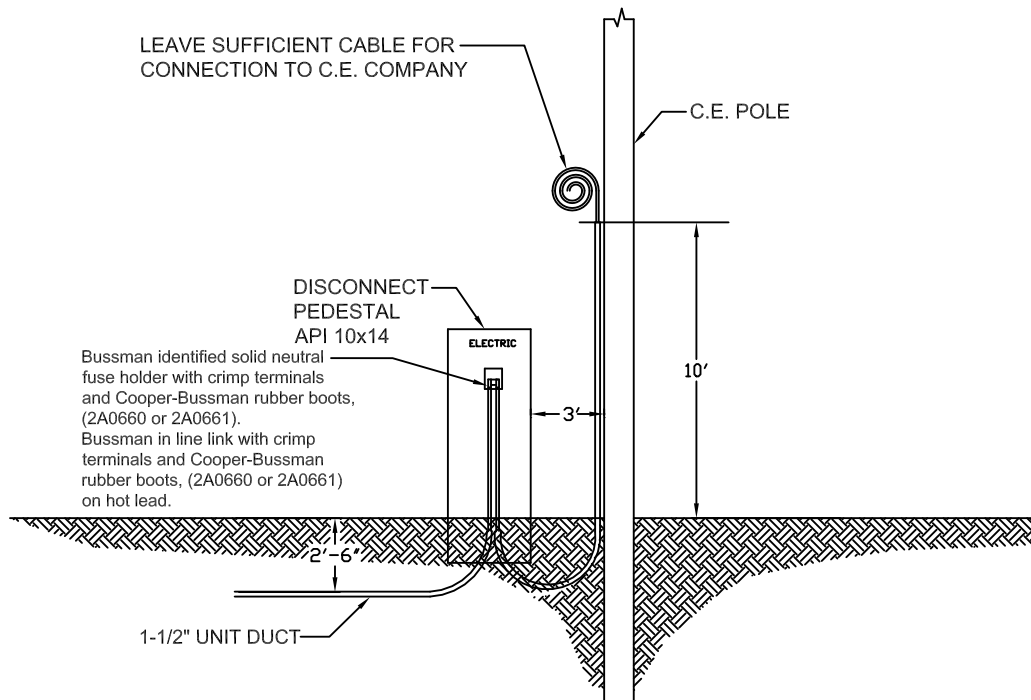


TYPICAL RESIDENTIAL STREET LIGHT		
Lite_Std_30.dwg	STREET & PAVEMENT	DATE: 08/17/2006
DRAWN BY:		REVISED:
Village of ORLAND PARK		REVISED:
Engineering Department		REVISED:
		DRAWING NO. STR-06

RESIDENTIAL STREET LIGHT ELECTRICAL SUPPLY CONNECTION



PEDESTAL



POWER POLE

RESIDENTIAL STREET LIGHT CONNECTION

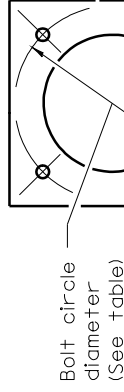
Lite_Connection.DWG	STREET & PAVEMENT	DATE: 08-16-06
DRAWN BY:		REVISED:
Village of ORLAND PARK		REVISED:
Engineering Department		REVISED:
		DRAWING NO. STR-07

LIGHT POLE MOUNTING HEIGHT	METAL FOUNDATION			CONCRETE FOUNDATION			
	BOLT CIRCLE DIAMETER	SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH (1)
30' (9.1 m)	11 1/2 (292)	8 5/8 (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-0" (1.52 m)	4'-9" (1.45 m)
31'-35' (9.4 m - 10.7 m)	11 1/2 (292)	8 5/8 (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-6" (1.67 m)	5'-3" (1.60 m)
36'-40' (10.9 m - 12.2 m)	15 (381)	8 5/8 (220)	6' (1.83 m)	15 x 15 x 1/4 (375 x 375 x 31)	30 (762)	6'-0" (1.83 m)	5'-9" (1.75 m)
41'-45' (12.5 m - 13.7 m)	15 (381)	8 5/8 (220)	6' (1.83 m)	15 x 15 x 1/4 (375 x 375 x 31)	30 (762)	6'-6" (1.98 m)	6'-3" (1.90 m)
46'-50' (14.0 m - 15.2 m)	15 (381)	8 5/8 (220)	8' (2.44 m)	15 x 15 x 1/4 (375 x 375 x 31)	30 (762)	7'-0" (2.13 m)	6'-9" (2.00 m)

① Length does not include 4 (100) hook.

② 8 5/8 x 8'-0" (220 x 2.44 m) for twin luminaires.

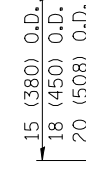
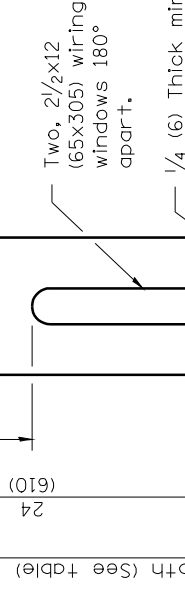
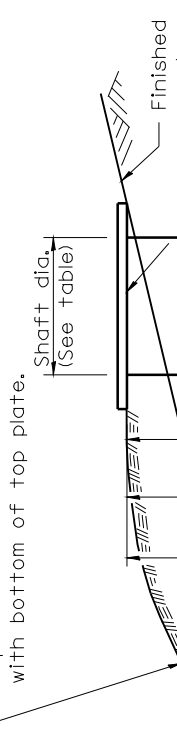
③ Bolt circle diam. shall be 17 (430) when a transformer base is used.



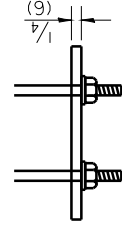
Provide dirt as needed to meet 5' (1.52 m) chord fill around foundation top. Grade dirt level with bottom of top plate.

Wiring window location identification marks shall be notched in side of plate or stamped on top.

Use dirt removed from foundation to meet 5' (1.52 m) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

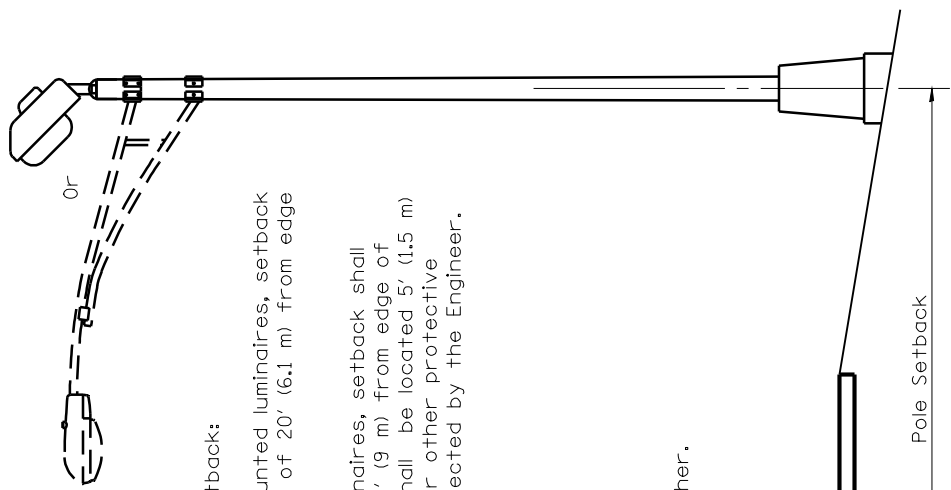


TOP VIEW



RING PLATE DETAIL

(When rock is encountered and foundation is shallower)



Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 20' (6.1 m) from edge of pavement.

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

Top of wiring window shall be flush with top of foundation.

Plate to be installed when required (See ring plate detail)

3 (75) Min. concrete cover on all steel

Anchor rod 1 (25) diameter with 9 (230) threads. Anchor rod shall extend through nut 1 (25). For barrier or foundation behind guardrail, use self-locking nut and flat washer. Do not use lock washer.

1/4 (19) Chamfer

Finished grade

Pole Setback

Shaft depth (See table)

15 (381)

Formed

Anchor rod length (See table)

See Ring Plate Detail

Schedule 40 5 (125) I.D. P.V.C. wiring window. Fill with fine aggregate.

Two (min.) 5/8 x 10' (16 x 3 m) connected (threaded) grounding electrodes.

9 (230) I.D. with 11 1/2 (292) bolt circle
12 (305) I.D. with 15 (381) bolt circle
14 (356) I.D. with 17 (432) bolt circle

GENERAL NOTES

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 of metal foundations and notify the Engineer if other conditions are encountered.

Anchor rod shall be increased in diameter as needed for 50' (15.2 m) mounting height or above. The Contractor shall match the breakaway device size or slotted hole size in the pole base plate to accommodate larger rod sizes.

Transformer bases shall not be used on metal foundations.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-10	New standard.

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

CONCRETE FOUNDATION

LIGHT POLE FOUNDATION

STANDARD 836001

Illinois Department of Transportation
 ISSUED 1-1-10
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 APPROVED January 1, 2010
 ENGINEER OF DESIGN AND ENVIRONMENT