

TWIN

SINGLE

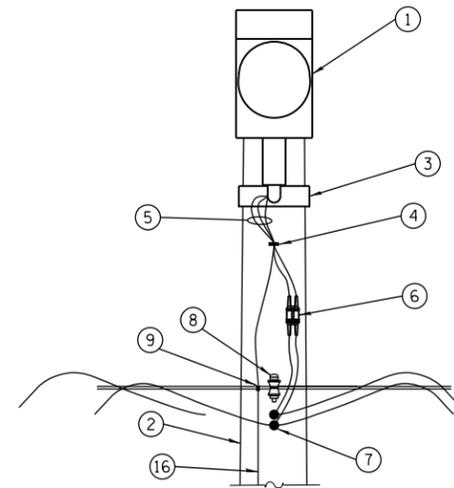
MOUNTING BRACKET DETAILS

GENERAL NOTES

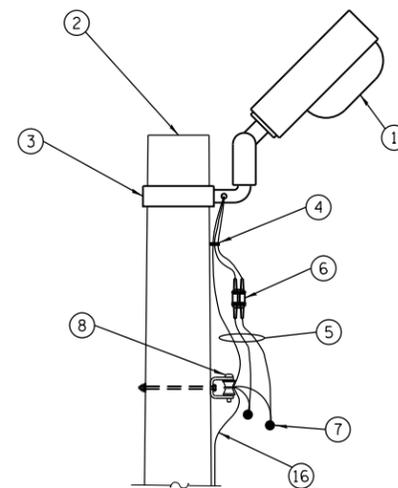
See plans for wire and unit duct sizes not shown.

Provide guy wires with strain insulators and anchors, as needed.

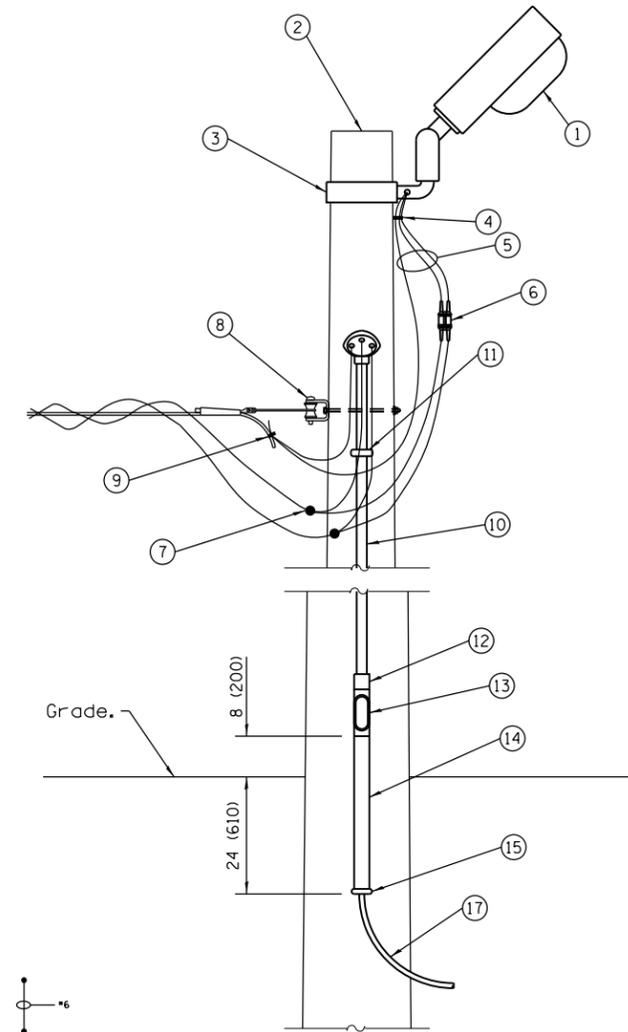
All dimensions are in inches (millimeters) unless otherwise shown.



FACING VIEW



SIDE VIEW

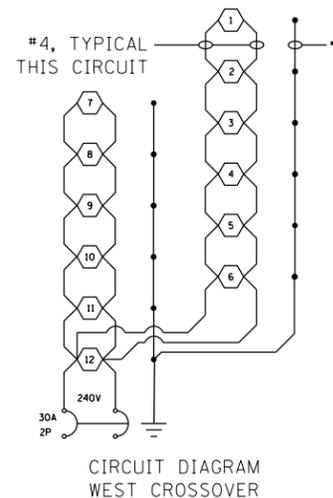


LIGHT POLE WITH CIRCUIT Routed UNDERGROUND

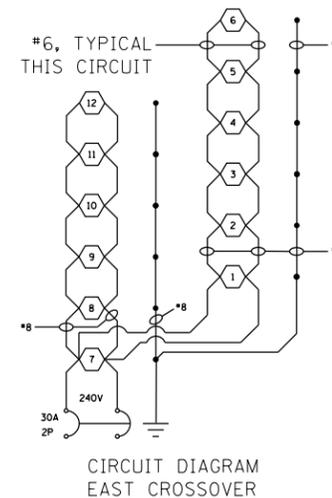
- ① Luminaire.
 - ② Wood light pole.
 - ③ Luminaire mounting bracket.
 - ④ Cable clamps on 24 (600) centers.
 - ⑤ Three #10 XLP-USE cable.
 - ⑥ Waterproof, two-pole fuse holder with fuses.
 - ⑦ Waterproof insulation piercing tap connector.
 - ⑧ Heavy duty insulated pulley clevis with mounting bolt and hardware.
 - ⑨ Ground clamp.
 - ⑩ 1 (25) rigid steel conduit.
 - ⑪ Malleable iron conduit clamps, 5' (1.5 m) intervals.
 - ⑫ Threaded conduit reducer.
 - ⑬ "C" conduit, threaded.
 - ⑭ 1 1/2 (40) rigid steel conduit.
 - ⑮ Conduit bushing.
 - ⑯ #6 Bare copper ground wire to 10 ft. ground rod, every third light pole.
 - ⑰ Unit duct.
- Size larger as needed.

LUMINAIRE MOUNTING DETAILS

42' (12.8 m) mounting height, unless otherwise noted on the plans.



CIRCUIT DIAGRAM WEST CROSSOVER



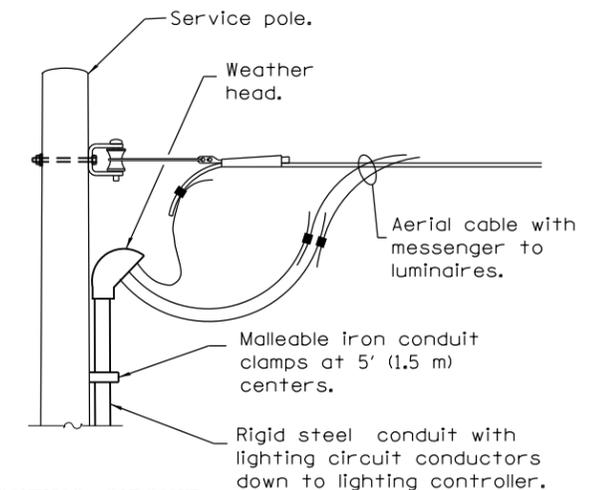
CIRCUIT DIAGRAM EAST CROSSOVER

CIRCUIT DIAGRAM

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

○ PROPOSED 250W ROADWAY LUMINAIRE



LIGHTING CIRCUIT AT SERVICE/CONTROLLER

See standard 825001 for service installation.

ILLINOIS DEPARTMENT OF TRANSPORTATION
250W LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes (In Direction of Travel)	2
	Median Width	64 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	42 FT
	Mast Arm Length	0 FT
	Pole Set-Back From Edge Of Pavement	35 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28500
	IES Vertical Distribution	L
	IES Control Of Distribution	NC
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	225 FT
	Configuration	Opposite
	Luminaire Overhang Over Edge Of Pavement Lane	-35 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E _{ave})	6.0	Lux
	Uniformity Ratio, (E _{ave} /E _{min})	3.0	
LUMINANCE:	Average Luminance: (L _{ave})	0.4	Cd/m ²
	Uniformity Ratios: (L _{ave} /L _{min})	3.5	
	(L _{max} /L _{min})	6.0	
	Maximum Veiling Luminance Ratio: (L _v /L _{ave})		