



CONTRACT: 85513

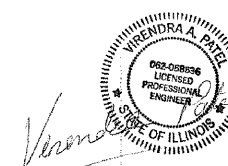
HIGHWAY LIGHTING - SUMMARY OF QUANTITY

PAY ITEM	DESCRIPTION	UNIT	QUANTITY			
			AUBURN	LATHAM	CEMETARY	TOTAL
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	1	3
81000800	CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL	FOOT	295	188	167	650
81603010	UNIT DUCT, 600V, 2-1C # 10, 1-C #10 GROUND, XLP-TYPE USE, 3/4" DIA POLYETHELYNE	FOOT	3500	401	631	4532
81900200	TRENCH & BACKFILL FOR ELECTRICAL WORK	FOOT	2140	123	297	2560
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATTS	EACH	16	2	2	20
82500350	LIGHTING CONTROLLER BASE MOUNTED 240 VOLTS, 100 AMPS	EACH	1	1	1	3
83002200	LIGHT POLE, ALUMINIUM, 40 FT MH, 6 FT DAVIT ARM	EACH	10	-	1	11
83600300	LIGHT POLE, FOUNDATION, 30" DIAMETER	FOOT	96	12	12	120
83002600	LIGHT POLE, ALUMINIUM, 40 FT MH, 15 FT DAVIT ARM	EACH	6	2	1	9
83800505	BREAKAWAY DEVICE, COUPLING WITH ALUMINIUM SKIRT	EACH	64	8	8	80

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE		
GIVEN CONDITIONS		
ROADWAY DATA:	Pavement Width	60 FT
	Number of Lanes	2
	Median Width	20 FT
	IES Surface Classification	R3
	Q-Zero Value	0.07
LIGHT POLE DATA:	Mounting Height	40 FT
	Mast Arm Length	6 FT & 15 FT
	Pole Set-Back From Edge of Pavement	14 FT
	Pole Set-Back From Back of Curb	5 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Verticle Distribution	M
	IES Control of Distribution	E
	IES Lateral Distribution	3
	Total Light Loss Factor	0.85
LAYOUT DATA:	Spacing	260 FT
	Configuration	STG
	Luminaire Overhang Over Edge of Pavement Lane	0 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 REQUIRMENTS		
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, (Eavg)	6.0 Lux
	Uniformity Ratio, (Eave/Emin)	4.0
LUMINANCE:	Average Luminance: (Lave)	0.4 Cd/m2
	Uniformity Ratios: (Lave/Lmin)	4.0
	(Lmax/Lmin)	8.0
	Maximum Veiling Luminance Ratio: (Lv/Lave)	0.4

GENERAL NOTE:

- ALL LIGHTING POLES C1 THROUGH C10 ARE LOCATED 6' BEHIND THE CURB. ALL LIGHTING POLES S1 THROUGH S6 ARE LOCATED 15' FROM THE EDGE OF PAVEMENT
- ALL POLES HAVE A 40' MOUNTING HEIGHT
- USE IDOT STANDARD # 836001 FOR THE LIGHT POLE FOUNDATION DETAIL
- USE IDOT DISTRICT-1 STANDARD - BE 411 FOR THE DAVIT LIGHT POLE DETAIL
- USE IDOT STANDARD # 825021 FOR THE INSTALLATION OF LIGHTING CONTROLLER
- ELECTRIC CABLE IN CONDUIT, SERVICE, #6 3/C AND CONDUIT IN TRENCH BETWEEN THE SERVICE POLE AND LIGHTING CONTROLLER SHALL NOT BE PAID SEPARATELY AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF ELECTRIC SERVICE INSTALLATION. CHANGE IN LOCATION OF LIGHTING CONTROLLER, IS PERMITTED ONLY WITH THE ENGINEER'S APPROVAL.



4-19-2010