GENERAL NOTES

1. ALL LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.

3. THE PROPOSED LIGHT POLES SHALL BE GALVANIZED STEEL TENON TOP POLES AND SHALL BE INSTALLED 25 FEET FROM EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS OF ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS. AFTER UNIT DUCT IS INSTALLED, FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY.

4. THE CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING LIGHTING UNITS AT TERMINAL DRIVE DURING CONSTRUCTION AS IDENTIFIED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE SALVAGED LIGHT POLES AND LUMINAIRES SHALL BE DELIVERED TO THE IDOT MAINTENANCE FACILITY IN CARBONDALE IN ACCORDANCE WITH SECTION 842 OF THE STANDARD SPECIFICATIONS UNLESS DIRECTED OTHERWISE. LUMINAIRES SHALL BE CRATED IN CONTAINERS ACCEPTABLE TO THE ENGINEER.

5. NEW SPLICES, FUSES, FUSEHOLDERS, AND SURGE PROTECTORS SHALL BE PROVIDED AND INSTALLED FOR ALL LUMINAIRES.

6. THE EXISTING LIGHT POLES AT TERMINAL DRIVE ARE POWERED FROM A CIRCUIT BREAKER IN THE AIRPORT SIGN LIGHTING PANEL WITH A SMALL RELAY AND PHOTOCELL CONTROL. REMOVAL OF THE EXISTING IDOT LIGHTING CONTROLS, WIRING, CONDUIT, AND ACCESSORIES SHALL BE PAID FOR UNDER "REMOVAL OF LIGHTING CONTROLLER".

7. THE EXISTING LIGHTING CONTROLLER, LIGHTING FOUNDATIONS, AND ASSOCIATED HARDWARE TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.

LIGHTING BILL OF MATERIALS

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES
X8440102	RELOCATE EXISTING LUMINAIRE	EACH	8
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81020600	CONDUIT PUSHED, 2 1/2" DIA., INTERMEDIATE METAL	FOOT	213
81020900	CONDUIT PUSHED, 4" DIA., INTERMEDIATE METAL	FOOT	142
81603000	UNIT DUCT, 600V, 2-1C NO. 8 GROUND, 1/C (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	6839
81700315	ELECTRIC CABLE IN CONDUIT, 600V (EPR- TYPE RHW) 3-1/C NO. 10	FOOT	1191
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6190
82104000	LUMINAIRE, SODIUM VAPOR, MULTIMOUNT, 400 WATT	EACH	24
82500520	LIGHTING CONTROLLER TYPE CB-RCS 60AMP - 480VOLT	EACH	1
82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	3
83060840	LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., TENON MOUNT	EACH	22
83600357	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 8'	EACH	22
83800650	BREAKWAY DEVICE, COUPLING, W ITH STAINLESS STEEL SCREEN	EACH	88
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	5
84200700	LIGHTING FOUNDATION REMOVAL	EACH	5
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1

ILLINOIS DEPARTMENT OF TRANSPORTATION
400W LUMINAIRE PERFORMANCE TABLE

1/1/03

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	40 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	50 FT
	Mast Arm Length	0 FT
	Pole Set-Back From Edge of Pavement	25 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	50,000
	IES Vertical Distribution	L
	IES Control of Distribution	N
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	315 FT
	Configuration	Staggered w/ Median
	Luminaire Overhang Over Edge of Pavement Lane	-25 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 standrads of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination: (E_{Ave})	0.90 fc
	Uniformity Ratio: (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.60 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})	0.3

FILE NAME = c:\pw_work\PWIDOT\SHEPARDGD\dms47330\fedstim13-sht-light.dgn	USER NAME = shepardgd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY LIGHTING – BILL OF MATERIALS, GENERAL NOTES AND PERFORMANCE TABLE

SCALE: | SHEET NO. OF SHEETS | STA. 653+00.00 TO STA. 668+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	94
		CONTRACT NO. 98857		
	ILLINOIS FED. AID PROJECT			