PROJECT PHOTOMETRIC CRITERIA
(IDOT LUMINAIRE PERFORMANCE TABLE)

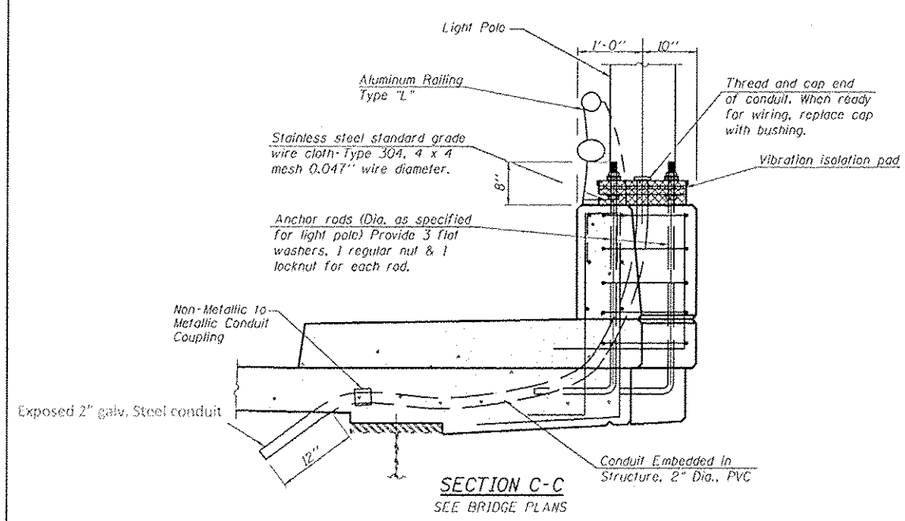
GIVEN CONDITIONS

		NB	SB
ROADWAY DATA:	PAVEMENT WIDTH	24 FT	24 FT
	NUMBER OF LANES	2	2
	MEDIAN WIDTH	44.58 FT	44.58 FT
	IES SURFACE CLASSIFICATION	R3	R3
	Q-ZERO VALUE	0.07	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	38 FT	38 FT
	MAST ARM LENGTH	10 FT	10 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	8.5 FT	5.5 FT
LUMINAIRE DATA:	LAMP TYPE	HPS	HPS
	LAMP LUMENS	28,000	28,000
	IES VERTICAL DISTRIBUTION	M	M
	IES CONTROL OF DISTRIBUTION	C	C
	IES LATERAL DISTRIBUTION	III	III
	TOTAL LIGHT LOSS FACTOR	0.684	0.684
LUMINANCE:	SPACING	152 FT	152 FT
	CONFIGURATION	ONE SIDE	ONE SIDE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	1.5 FT	4.5 FT

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.

ROADWAY AREA		
IES ROADWAY CLSSIFICATION : MAJOR		
IES AREA CLSSIFICATION : LOW		
ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (E AVE)	0.9 FC
	UNIFORMITY RATIO, (E AVE / E MIN)	3.0
LUMINANCE:	AVERAGE LUMINANCE: (L AVE)	0.6 CD/M2
	UNIFORMITY RATIOS: (L AVE / L MIN)	3.5
	(L MAX / L MIN)	6.0
	MAXIMUM VEILING LUMINANCE RATIO: (L V / L AVE)	0.3



SECTION C-C
SEE BRIDGE PLANS

BILL OF MATERIALS

ITEM NO.	PAYCODE	DESCRIPTION	UNIT	TOTAL QUANTITY
1	81100400	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., GALVANIZED STEEL	FOOT	818
2	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	77
3	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4"	EACH	11
4	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x10"x6"	EACH	1
5	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	231
6	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2850
7	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	7
8	83007400	LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT., MAST ARM	EACH	7
9	84200500	REMOVAL OF LIGHTING UNIT (SALVAGE)	EACH	7
10	X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	1729
11	X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1
12	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	70
13	X8110455	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., STAINLESS STEEL	FOOT	132

LIGHTING SCHEDULE

LOCATION	81100400 CONDUIT ATTACHED TO STRUCT GALV STEEL 1 1/4" DIA. (FOOT)	81200230 CONDUIT EMBEDDED IN STRUCT 2" DIA. PVC (FOOT)	81300220 JUNCTION BOX STAINLESS STEEL ATTACHED TO STRUCT 6"x6"x4" (EACH)	81300530 JUNCTION BOX STAINLESS STEEL ATTACHED TO STRUCT 12"x10"x6" (EACH)	81702110 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 (FOOT)	81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 (FOOT)	82102250 LUMINAIRE SODIUM VAPOR HORIZONTAL MOUNT 250 WATT (EACH)	* 83007400 LIGHT POLE ALUMINUM 35 FT. M.H. 10 FT. MAST ARM (EACH)	84200500 REMOVAL OF LIGHTING UNIT (SALVAGE) (EACH)	X0323710 REMOVE CONDUIT ATTACHED TO STRUCTURE (FOOT)
SN 058-0049 (SOUTHBOUND)										599
STA. 653+38.48			1							
STA. 653+38.48 TO STA. 653+44.48						27				
STA. 653+44.48			1							
STA. 653+44.48 TO STA. 654+19.96						327				
STA. 654+19.96			1							
STA. 654+19.96 TO STA. 655+73.45	155					465				
STA. 654+27.10		11			33		1	1		
STA. 654+31.01									1	
STA. 655+73.45			1							
STA. 655+73.45 TO STA. 657+24.75	153					459				
STA. 655+77.10		11			33		1	1		
STA. 655+89.01									1	
STA. 657+24.75			1							
STA. 657+24.75 TO STA. 657+31.10	7					21				
STA. 657+31.10		11			33		1	1		
STA. 657+47.51									1	
SN 058-0010 (NORTHBOUND)										1130
STA. 652+06.20				1						
STA. 653+09.36			1							
STA. 653+09.36 TO STA. 653+16.65						42				
STA. 653+16.65			1							
STA. 653+16.65 TO STA. 653+44.65	37					111				
STA. 653+44.65			1							
STA. 653+44.65 TO STA. 654+96.52	153					459				
STA. 653+51.10		11			33		1	1		
STA. 653+64.10									1	
STA. 654+96.52			1							
STA. 654+96.52 TO STA. 656+60.34	165					495				
STA. 655+03.10		11			33		1	1		
STA. 655+04.85									1	
STA. 656+53.35									1	
STA. 656+55.10		11			33		1	1		
STA. 656+60.34			1							
STA. 656+60.34 TO STA. 658+03.44	144					432				
STA. 657+94.10									1	
STA. 658+03.44			1							
STA. 658+03.44 TO STA. 658+07.10	4					12				
STA. 658+07.10		11			33		1	1		
TOTALS	818	77	11	1	231	2850	7	7	7	1729

* PROVIDE VIBRATION ISOLATION PADS AT EACH LIGHT POLE IN ACCORDANCE WITH SECTION 830 AND 1069.07 OF THE IDOT STANDARD SPECIFICATIONS. THE COST OF ISOLATION PADS AND HARDWARE SHALL BE INCLUDED IN THE COST OF LIGHT POLE, ALUMINUM, 35 FT, 10 FT, MAST ARM.

REV.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE PERFORMANCE TABLE
AND BILL OF MATERIAL

SCALE: | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-B-2)BR & (48BR)BR	MACON	144	38
		CONTRACT NO. 74438		
		ILLINOIS FED. AID PROJECT		