

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	0	0	0	0

ID NO	SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (HARDWARE)		
	Item	Unit	Quantity
	Solid State Photo Cell	Each	
	Controller	Each	
	Junction Box	Each	
	Cable Support Grip	Each	
	Expansion Joint	Each	
	Breakaway Connectors	Each	
	600 Volt 2/C Secondary Cable with Ground Wire (CIC) #4 AWG	Lin Ft	
	600 Volt 2/C Secondary Cable with Ground Wire (CIC) #6 AWG	Lin Ft	
	600 Volt 2/C Secondary Cable with Ground Wire (CIC) #8 AWG	Lin Ft	
	600 Volt 2/C Secondary Cable with Ground Wire (CIC) #10 AWG	Lin Ft	
	600 Volt 1/C Secondary Cable with Ground Wire ____ AWG	Lin Ft	
	600 Volt 1/C Secondary Cable #10 AWG	Lin Ft	
	Groundwire, #6 AWG Solid Bare Copper	Lin Ft	
	1" Metallic Conduit	Lin Ft	
	2" Metallic Conduit	Lin Ft	
	3" Metallic Conduit	Lin Ft	
	2" Schedule 40 Conduit	Lin Ft	
	2" Schedule 80 Conduit	Lin Ft	
	3" Schedule 80 Conduit	Lin Ft	
	3' 90 Degree Sch 40 PVC Conduit Bends 24" Radius	Each	
	1" 90 Degree Sch 40 PVC Conduit Bends 24" Radius	Each	
	3⁄8" X 3" Wedge Type Anchor Bolts	Each	
	2" Conduit Clamps w/ Clamp Backs	Each	
	Ground Rods with Clamps 3⁄4" X 20'	Each	

ID NO	SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (LIGHT POLES)		
	Item	Unit	Quantity
	40' Mounting Height Light Pole with XX' Luminaire Arm and Frangible Base	Each	
	40' LED Luminaire (See Basis of Design)	Each	
	55' Mounting Height Light Pole with XX' Luminaire Arm and Frangible Base	Each	
	55' LED Luminaire (See Basis of Design)	Each	
	30" Concrete Base (40' Pole)	Each	
	36" Concrete Base (55' Pole)	Each	

ID NO	SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (MISCELLANEOUS ITEMS)		
	Item	Unit	Quantity
	Boring	Lin Ft	
	Trench and Backfill	Lin Ft	
	Removal of Concrete Base	Each	

NOTES:

1. Linear quantities are approximate and included for information only. The contractor shall conduct all work, furnish and install all lighting equipment necessary, including towers, concrete bases for towers, anchor bolts, luminaires, lamps, wiring, conduit, conduit fittings, supports, interconnections, ground rods, and all incidentals necessary for the complete installation within the limits shown on the plans. To insure complete and satisfactory operation of the Electric Lighting System whether specifically mentioned or not.
2. The bid item “High Mast Light Tower” includes all work persons, tools, equipment and new hardware necessary to complete the work.
3. Items not specifically called out are subsidiary to other bid items.
4. For additional construction quantities, see the following sheets, as applicable:

a. CONSTRUCTION AND MATERIAL REQUIREMENTS AND QUANTITIES FOR SIGN LIGHTING.

b. UNDERDECK LIGHTING DETAIL.

c. FOOTING DETAILS AND ENGINEERING GEOLOGY (for footing lengths).

ID NO	SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (TOWER)		
	Item	Unit	Quantity
	LED Luminaire (See Basis of Design)	Each	
	Lowering Device	Each	
	½" Heavy Duty Reversible Drill	Each	
	Step Down Transformer	Each	

BID ITEM		
	Item	Unit
	Electric Lighting System	L.S.
	High Mast Light Tower (100')(48" Concrete Base)	Each
	High Mast Light Tower (110')(48" Concrete Base)	Each
	High Mast Light Tower (120')(48" Concrete Base)	Each
	High Mast Light Tower (100')	Each
	High Mast Light Tower (110')	Each
	High Mast Light Tower (120')	Each

BASIS OF DESIGN (ADDITIONAL CRITERIA)		
	Designed Lumens	
	Maximum Wattage	
	Distribution Type	
	Other	
	Designed Lumens	
	Maximum Wattage	
	Distribution Type	
	Other	

03	05-25-23	Added boring			J.A.P.	S.M.P.
02	03-17-21	High mast footing to 48"/ground rod			J.A.P.	C.P.A.
01	04-28-20	Add 55' pole/change footing size			J.A.P.	C.P.A.
NO.	DATE	REVISIONS			BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION						
CONSTRUCTION QUANTITIES						
ELECTRIC LIGHTING SYSTEMS						
TE209						
FHWA APPROVAL		07-07-23	APP'D.		Sara M. Peters	
DESIGNED	J.A.P.	DETAILED	J.A.P.	QUANTITIES	TRACED	
DESIGN CK.	S.M.P.	DETAIL CK.	S.M.P.	QUAN.CK.	TRACE CK.	