

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-84780	2015	81	227

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (HARDWARE)

ITEM	UNIT	QUANTITY
SOLID STATE PHOTO CELL	EACH	1
ENCLOSURE	EACH	1
ABOVE GROUND JUNCTION BOX (12" X 12" X 6")	EACH	---
CABLE CONNECTORS	EACH	---
OZ EXPANSION JOINT	EACH	---
CABLE SUPPORT GRIP	EACH	---
600 VOLT 2/C SECONDARY CABLE WITH GROUND WIRE (IN DUCT) #4 A.W.G.	LIN FT	---
600 VOLT 2/C SECONDARY CABLE WITH GROUND WIRE (IN DUCT) #6 A.W.G.	LIN FT	---
600 VOLT 1/C SECONDARY CABLE WITH GROUND WIRE #6 A.W.G.	LIN FT	---
600 VOLT 1/C SECONDARY CABLE WITH GROUND WIRE #8 A.W.G.	LIN FT	2,930
600 VOLT 1/C SECONDARY CABLE #10 A.W.G.	LIN FT	---
GROUNDWIRE, #6 A.W.G.SOLID BARE COPPER	LIN FT	20
1" METALLIC CONDUIT	LIN FT	---
2" METALLIC CONDUIT	LIN FT	---
3" METALLIC CONDUIT	LIN FT	---
3" 90 DEGREE PVC CONDUIT BENDS 24" RADIUS	EACH	---
2" SCHEDULE 40 PVC	LIN FT	---
3" SCHEDULE 40 PVC	LIN FT	---
3" SCHEDULE 80 PVC	LIN FT	95
3" 90 DEGREE SCHEDULE 40 PVC CONDUIT BENDS 36" RADIUS	EACH	---
1" 90 DEGREE SCHEDULE 40 PVC CONDUIT BENDS 24" RADIUS	EACH	---
3/8" x 3" WEDGE TYPE ANCHOR BOLTS	EACH	---
ALUMINUM TRIPLEX #4 A.W.G. (AERIAL)	LIN FT	---
2" CONDUIT CLAMPS W/ CLAMP BACKS	EACH	---
GROUND RODS WITH CLAMPS 3/4" X 10'	EACH	2

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (LIGHT STANDARDS)

ITEM	UNIT	QUANTITY
40' MOUNTING HEIGHT LIGHT STANDARD WITH 8' MASTARM	EACH	---
40' MOUNTING HEIGHT LIGHT STANDARD WITH 10' MASTARM	EACH	---
40' MOUNTING HEIGHT LIGHT STANDARD WITH 12' MASTARM	EACH	---
40' MOUNTING HEIGHT LIGHT STANDARD WITH 15' MASTARM	EACH	---
150 WATT LUMINAIRE, AUTO REGULATOR BALLAST, HIGH PRESSURE SODIUM	EACH	---
150 WATT, 16,000 LUMEN, HIGH PRESSURE SODIUM, 24,000 LAMP HOUR	EACH	---
FRANGIBLE BASE	EACH	---
24" CONCRETE BASE FOR LIGHT STANDARD	EACH	---
30" CONCRETE BASE FOR LIGHT STANDARD	EACH	---

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (MISCELLANEOUS ITEMS)

ITEM	UNIT	QUANTITY
TRENCH AND BACKFILL	LIN FT	1,375
REMOVAL OF CONCRETE BASE	EACH	---

THE FOLLOWING COMPANIES HAVE A RAISE AND LOWERING DEVICE THAT HAS BEEN ACCEPTED BY THE KANSAS DEPARTMENT OF TRANSPORTATION : AMERICAN HIGH MAST, EAGLE HIGH MAST LIGHTING CO., CAROLINA HIGH MAST, METROLUX AND HALOPHANE. ADDITIONAL COMPANIES DESIRING APPROVAL BY THE KDOT MUST INSTALL ONE RAISE AND LOWERING DEVICE ON A POLE PROVIDED BY THE KDOT IN TOPEKA, OR ON ANOTHER POLE AS APPROVED. THE INSTALLATION WILL BE REVIEWED AND TESTED BY KDOT PRIOR TO APPROVAL ON THIS PROJECT. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF THE MANUFACTURERS/CONTRACTORS.

* EACH TOWER SHALL BE INSPECTED BY A FACTORY REPRESENTATIVE OF THE RAISE AND LOWER DEVICE MANUFACTURER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE KANSAS DEPARTMENT OF TRANSPORTATION.

NOTE: LINEAR QUANTITIES ARE APPROXIMATE AND INCLUDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL CONDUCT ALL WORK, AND FURNISH AND INSTALL ALL EQUIPMENT NECESSARY, TO INSURE COMPLETE AND SATISFACTORY OPERATION OF THE ELECTRIC LIGHTING SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES (TOWER)

ITEM	UNIT	QUANTITY
1000 WATT LUMINAIRE, PEAK LEAD AUTO TRANSFORMER BALLAST, METAL HALIDE, ASYMMETRIC	EACH	---
1000 WATT LUMINAIRE, PEAK LEAD AUTO TRANSFORMER BALLAST, METAL HALIDE, SYMMETRIC	EACH	3
1000 WATT, 110,00 LUMEN, METAL HALIDE, VERTICAL BURNING, 12,000 HOUR LAMP	EACH	3
* RAISE AND LOWER DEVICE	EACH	1
1/2" HEAVY DUTY REVERSIBLE DRILL	EACH	---
STEP DOWN TRANSFORMER	EACH	---

BID ITEM

ITEM	UNIT	QUANTITY
ELECTRIC LIGHTING SYSTEM	L.S.	Lump Sum
HIGH MAST LIGHT TOWER (100')(36" CONCRETE BASE)	EACH	---
HIGH MAST LIGHT TOWER (110')(36" CONCRETE BASE)	EACH	1
HIGH MAST LIGHT TOWER (120')(42" CONCRETE BASE)	EACH	---
HIGH MAST LIGHT TOWER (100')	EACH	---
HIGH MAST LIGHT TOWER (110')	EACH	1
HIGH MAST LIGHT TOWER (120')	EACH	---

NOTE: FOR ADDITIONAL CONSTRUCTION QUANTITIES, SEE THE FOLLOWING SHEETS, AS APPLICABLE:
 1. CONSTRUCTION AND MATERIAL REQUIREMENTS AND QUANTITIES FOR SIGN LIGHTING
 2. UNDERDECK LIGHTING DETAIL.
 3. FOOTING DETAILS & ENGINEERING GEOLOGY FOR FOOTING LENGTHS.

THE BID ITEM "HIGH MAST LIGHT TOWER" INCLUDES ALL WORK PERSONS, TOOLS, EQUIPMENT AND NEW HARDWARE NECESSARY TO COMPLETE THE WORK.

ITEMS NOT SPECIFICALLY CALLED OUT ARE SUBSIDIARY TO OTHER BID ITEMS.

3	1/12/12	Chg'd Bid Items & Add 1" PVC Conduit	C.E.	B.D.G.
2	7/14/11	Change 250 Watts to 150 Watts	V.H.	B.D.G.
1	6/14/11	Changed 150 to 250 Watts	V.H.	B.D.G.
NO.	DATE	REVISIONS	BY	APP'D

**KANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION QUANTITIES
FOR
ELECTRIC LIGHTING SYSTEM**

TE209

FHWA APPROVAL	12/15/2011	APP'D	Brian D. Gower
DESIGNED	V.H.	QUANTITIES	TRACED
DESIGN CK.	B.D.G.	QUAN. CK.	TRACE CK.