

TRAFFIC LIGHTING CONSTRUCTION NOTES

SYMBOLS AND LEGENDS ARE DIAGRAMMATIC ONLY AND LOCATIONS SHALL BE ADJUSTED FOR EXISTING FIELD CONDITIONS, BUT NO MAJOR ALTERATIONS OR RELOCATIONS WILL BE MADE WITHOUT FIRST CONSULTING WITH THE TRAFFIC ENGINEER AT (405) 521-2861.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE O.D.O.T. STANDARDS DETAIL DRAWINGS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

ALL BROKEN CONCRETE, WASTE MATERIAL, AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC. PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER 811 OR 1-800-522-6543 OR WWW.CALLOKIE.COM

OR THE LOCAL COUNTY CLERK'S OFFICE.

DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL CONTACT THE BRIDGE DIVISION OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION FOR QUESTIONS CONCERNING COMPLIANCE AND INTERPRETATIONS TO THE A.A.S.H.T.O. "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

THE CONTRACTOR SHALL COOPERATE WITH THE ENGINEER, THE CITY AND THE LOCAL UTILITY CO. TO KEEP THE EXISTING LIGHTING SYSTEM IN SERVICE AS MUCH AS POSSIBLE WHILE DOING THE WORK SPECIFIED BY THIS CONTRACT. IF TEMPORARY CONNECTIONS ARE FEASIBLE AND JUSTIFIABLE, THE ENGINEER MAY REQUIRE THAT THE CONTRACTOR PROVIDE THESE TEMPORARY POWER CONNECTIONS. TEMPORARY CONNECTIONS WILL BE PAID FOR AT THE UNIT BID FOR THE MATERIALS USED.

THE ITEMS THAT ARE TO BE REMOVED AND/OR RESET SHALL BE HANDLED WITH CARE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OCCURRING DURING THESE OPERATIONS.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BOLT CIRCLE TEMPLATE(S). THE TEMPLATE(S) SHALL BE 1/4" THICK STEEL PLATE(S), AND BE PERMANENTLY LABELED WITH THE CONTRACTOR'S COMPANY NAME, BOLT CIRCLE DIAMETER AND THE ANCHOR BOLT DIAMETER. THE COST OF THE TEMPLATE(S) SHALL BE PAID FOR IN OTHER ITEMS OF WORK.

PRIOR TO CONSTRUCTION OF FOOTINGS THE CONTRACTOR SHALL VISUALLY INSPECT THE PLAN LOCATION OF ALL HIGH MAST TOWERS AND CONVENTIONAL LIGHT POLES FOR PROPER OVERHEAD WIRE CLEARANCE. THESE CLEARANCES SHALL BE IN ACCORDANCE TO THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SECTION 1910. THERE SHALL BE A MINIMUM RADIUS OF 10 FOOT CLEARANCE OF ANY OVERHEAD LINES FROM THE CLOSEST POINT ON THE LIGHT POLE. ANY NEW FOOTINGS PUT IN CLOSER THAN THIS 10 FOOT MINIMUM SHALL BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR, INCLUDING REMOVAL OF THE FOOTING AND ALL MATERIALS TO CONSTRUCT THE NEW FOOTING.

LIGHTING NOTES

(TL-35) SEE SERVICE POLE SCHEDULE; FOR ADDITIONAL INFORMATION CONCERNING THE SERVICE POLE, CONTACT THE FOLLOWING PRIOR TO INSTALLATION: PERSON'S NAME MAXINE PRUITT WITH THE COMPANY/CITY OF CITY OF GUTHRIE COMPANY'S/CITY'S TELEPHONE NO. 405-282-8400.

(TL-43) ALL REMOVED SERVICE POLES, LIGHT POLES, MAST ARMS, LUMINAIRES, BREAKAWAY BASES AND PERTINENT EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY OF GUTHRIE. THE CONTRACTOR SHALL NEATLY STACK THE REMOVED ITEMS IN AN AREA DESIGNATED BY THE ENGINEER WITHIN THE PROJECT LIMITS. THE ITEMS THAT ARE TO BE REMOVED SHALL BE HANDLED WITH CARE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OCCURRING DURING THESE OPERATIONS.

(TL-44) INCLUDED IN THE COST OF THIS ITEM, THE CONTRACTOR SHALL EITHER COMPLETELY REMOVE THE EXISTING CONCRETE LIGHT POLE FOOTING(S) OR CUT OFF THE TOP PORTION OF THE FOOTING(S) TO A MINIMUM OF ONE FOOT BELOW GRADE. THE RESULTING HOLE(S) SHALL BE BACKFILLED, COMPACTED AND ALL DEBRIS DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

SPECIAL NOTES

(SP-1) ALL POLES, LIGHT FIXTURES, BREAKAWAY BASES, AND IN-LINE FUSES TO BECOME PROPERTY OF THE CITY OF GUTHRIE. ALL ITEMS TO BE TAKEN TO THE CITY OF GUTHRIE MAINTENANCE FACILITY LOCATED @ 407 COMMERCE BOULEVARD, GUTHRIE, OK CONTACT TENNEY MAKER CITY OF GUTHRIE @ 405-282-8400 FOR MORE INFORMATION. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES TO POLES, LIGHT FIXTURES, BREAKAWAY BASES, AND IN-LINE FUSES.

(SP-2) 38 POLES WITH SINGLE DAVITE MAST ARM 10' LONG. SEE SHEET NO. T012, T013, T014, T015, T016.

(SP-3) PULL BOXES SHALL BE PLASTIC (POLYMER CONCRETE) MEETING REQUIREMENTS OF THE WESTERN UNDERGROUND COMMITTEE AND ANSI/SC77 2002. TIER 15, WITH MINIMUM VERTICAL TEST LOAD OF 20K LBS.

(SP-4) FUSED "Y" CONNECTORS SHALL BE APPROVED BY THE ENGINEER AND INSTALLED AT EACH POLE BASE OR BRANCH CIRCUIT AS REQUIRED. THE COST OF THESE CONNECTORS SHALL BE INCLUDED IN THE PRICE BID FOR THE INSULATED CABLES. THW "HOT" CONDUCTOR SHALL BE BLACK AND THE "NEUTRAL" CONDUCTOR SHALL BE WHITE.

(SP-5) THE SERVICE POLES FOR THIS PROJECT SHALL BE TESCO SERVICE PEDESTAL MODEL 27-000 OR AN APPROVED EQUAL.

(SP-6) 38 ROADWAY LUMINAIRES SHALL BE THE HOLOPHANE DECORATIVE TEAR DROP LED II CATALOG NUMBER MPL2-P50S-40K-AH-BK-TG-S-BHDF-13-200-BK OR APPROVED EQUAL. LIGHTING LAYOUT PRESENTED IN THE PLANS IS BASED ON THE PHOTOMETRICS AND LIGHT DISTRIBUTION OF THIS LIGHT FIXTURE. OTHER LIGHT FIXTURES SATISFYING THE SPECIFICATIONS WILL BE CONSIDERED AS LONG AS THE LIGHT DISTRIBUTION MEETS ODOT DESIGN CRITERIA AND FUTURE MAINTENANCE CAN BE PROVIDED BY THE CITY OF GUTHRIE THROUGH PUBLIC SERVICE COMPANY OF OKLAHOMA (PSO).

(SP-7) HANDHOLES ON CENTERLINE POLES SHALL BE MOUNTED ON THE SAME SIDE AS THE POLE NUMBER. ALL POLE NUMBERS AND HANDHOLDS SHALL FACE THE SAME DIRECTION.

(SP-8) ENHANCEMENT LIGHTING SHALL BE HOLOPHANE ROUND TAPERED ALUMINUM POLE, MODEL RTA39809J, AND MAST ARM MODEL WLC72 CA/BK OR APPROVED EQUAL.

(SP-9) BASE SHALL BE HOLOPHANE DECORATIVE BREAKAWAY WITH CAST ALUMINUM AND CAST IRON MODEL C24CSB-BK WY KIT FOR GROUND MOUNTED POLES OR APPROVED EQUAL.

(SP-10) THIS ITEM INCLUDES 20 NON-BREAKAWAY BASE HOLOPHANE DECORATIVE WITH CAST ALUMINUM AND CAST IRON MODEL C24CSB FOR BRIDGE PARAPET WALL MOUNTED POLES OR APPROVED EQUAL.

LIGHT POLE SCHEDULE

SHEET NUMBER	POLE NUMBER	LOCATION		FOOTING		POLE ASSEMBLY						REMARKS
		STATION	CY	LBS	FT	EA	LUMINAIRE					
							STRUCTURAL CONCRETE	REINFORCING STEEL	BREAKAWAY BASE (DES. B) 807 8092	MOUNTING HEIGHT	ENHANCEMENT LIGHTING (COMPLETE) 809 8090	
T012	001	1518+85.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T012	002	1520+25.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T012	003	1521+47.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T012	004	1522+75.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T012	005	1524+10.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T012	006	1525+57.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T012	007	1526+98.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T013	008	1528+41.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T013	009	1529+55.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T013	010	1530+65.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T013	011	1532+08.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T013	012	1533+49.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T013	013	1534+60.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T014	014	1535+84.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T014	015	1537+16.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T014	016	1538+52.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	98.00		GROUND MOUNTED
T014	017	1539+52.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T014	018	1540+52.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T014	019	1541+52.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T014	020	1542+52.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	021	1543+52.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	022	1544+52.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	023	1545+52.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	024	1546+52.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	025	1547+52.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	026	1548+32.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	027	1549+32.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T015	028	1550+32.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	029	1551+07.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	030	1552+37.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	031	1553+17.28 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	032	1554+34.28 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	033	1555+65.00 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	034	1556+97.00 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	035	1558+34.00 LT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	036	1559+44.00 RT				40.00	1.00	1.00	1.00	98.00		BRIDGE PARAPET WALL MOUNTED
T016	037	1560+83.00 LT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
T016	038	1560+19.00 RT	1.64	296.00	1.00	40.00	1.00	1.00	1.00	104.00		GROUND MOUNTED
		TOTAL	29.52	5328.00	18.00		38.00	38.00	38.00	3826.00		

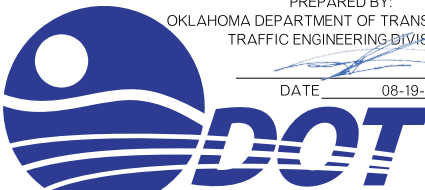
REVISIONS		
REV. NO.	DESCRIPTION	DATE

PAY QUANTITY SCHEDULE				
0310 HIGHWAY LIGHTING				
PAY ITEM	CODE NO.	DESCRIPTION	UNIT	QUANTITY
802(A)	8306	1 1/4" GALV. STEEL ELECT. COND. EXPOSED	LF	4,224.00
802(B)	8340	2" PVC SCH. 40 PLASTIC CONDUIT BORED	LF	80.00
802(B)	8342	2" PVC SCH. 40 PLASTIC CONDUIT TRENCHED	LF	4,418.00
802(E)	8372	JUNCTION BOX (8" X 8" X 6")	EA	23.00
803(A)	8065	PULL BOX (SIZE I)	EA	11.00
803(A)	8066	PULL BOX (SIZE II)	EA	1.00
804(A)	2915	STRUCTURAL CONCRETE	CY	29.52
804(B)	2916	REINFORCING STEEL	LB	5,328.00
805(A)	8712	(PL) REMOVAL OF LIGHT POLE	EA	11.00
807	8092	BREAKAWAY BASE (DES. B)	EA	18.00
809	8090	(PL) ENHANCEMENT LIGHTING (COMPLETE)	EA	38.00
809(A)	8090	ROADWAY LUMINAIRE	EA	38.00
810(A)	3118	SERVICE POLE	EA	1.00
811	8038	1/2" NO. 4 ELECTRICAL CONDUCTOR	LF	8,880.00
811	8044	1/2" NO. 10 ELECTRICAL CONDUCTOR	LF	3,826.00


SERVICE POLE SCHEDULE													
SHEET NUMBER	SERVICE POLE NUMBER	LOCATION	TYPE	SECONDARY VOLTAGE AND NO. PHASE	CONTROLLER				METER	REMARKS			
					NO. OF POLES/CONTROLLER	AMPERE RATING OF CONTACTS	CIRCUIT ID.	ESTIMATE AMPS./CIRCUIT			MINIMUM FUSE SIZE	TOTAL LENGTH	CLASS
T012	001	1519+00 RT	UG/2	480-1	1.00	60.00	A	20.00		30.00	6.00	IM	
							B	20.00					

SHEET ESTIMATE SCHEDULE								
SHEET NUMBER	CONDUITS			CONDUCTORS				REMARKS
	2" PVC SCH. 40 PLASTIC CONDUIT BORED 802(A) 8340	2" PVC SCH. 40 PLASTIC CONDUIT TRENCHED 802(A) 8342	1-1/4" GALV. STEEL ELECT. COND. EXPOSED 802(A) 8306	1/2" NO. 4 ELECTRICAL CONDUCTOR 811 8038	PULL BOX (SIZE I) 803(A) 8065	PULL BOX (SIZE II) 803(A) 8066	JUNCTION BOX (8" X 8" X 6") 802(E) 8372	
	LF	LF	LF	LF	EA	EA	EA	
T012	80.00	1676.00		1710.00	4.00	1.00		
T013		1640.00		1700.00	3.00			
T014		682.00	796.00	1700.00	2.00		6.00	
T015			1600.00	1700.00			8.00	
T016		420.00	1628.00	2070.00	2.00		9.00	
TOTAL	80.00	4418.00	4224.00	8880.00	11.00	1.00	23.00	

PREPARED BY: OKLAHOMA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING DIVISION



DATE: 08-19-16



OKLA. REG. NO. 25181

SUMMARY OF PAY QUANTITIES & NOTES (LIGHTING)			
Drawn	JF	3/16	
Design	JF	3/16	
Checked	KCD	7/16	
TRAFFIC ENGINEERING TAREK MAAROUF			