

BILL OF MATERIALS (FOR INFORMATION ONLY)

ITEM	UNIT	EMPORIA & NORTH	TOPEKA & NORTH	EMPORIA & ENGLISH	TOPEKA & ENGLISH
		QUANT.			
POLE MOUNTED CONTROLLER & CABINET	EACH	1	1	1	1
PEDESTAL MOUNTED CONTROLLER & CABINET	EACH	-	-	-	-
PAD MOUNTED CONTROLLER & CABINET	EACH	-	-	-	-
TRAFFIC SIGNAL HEAD (SEE CHART A) W/ MOUNTING HARDWARE	EACH	15	15	14	14
TRAFFIC SIGNAL POLE (SEE CHART B) 20' STEEL W/ MAST ARM	EACH	-	-	-	-
TRAFFIC SIGNAL POLE (SEE CHART B) 30' STEEL JOINT USE W/ MAST ARM	EACH	3	2	2	2
TRAFFIC SIGNAL POLE (SEE CHART B) 30' STEEL JOINT USE NO MAST ARM	EACH	1	2	2	2
TRAFFIC SIGNAL PEDESTAL ALUMINUM 15'	EACH	-	-	-	-
CONCRETE CONTROLLER PAD	EACH	-	-	-	-
CONCRETE FOOTING - PEDESTAL	EACH	-	-	-	-
CONCRETE FOOTING - POLE	EACH	4	4	4	4
CONDUIT ELBOW 90	EACH	*	*	*	*
CONDUIT ELBOW 90 3"	EACH	*	*	*	*
BACK PLATE 5" 3 SECTION	EACH	4	4	4	4
BACK PLATE 5" 4 SECTION	EACH	-	-	-	-
BACK PLATE 5" 5 SECTION	EACH	-	-	-	-
TERMINAL BLOCK	EACH	-	-	-	-
SERVICE BOX	EACH	4	4	4	4
JUNCTION BOX	EACH	-	-	-	-
GROUND ROD & CLAMP	EACH	4	4	4	4
CONDUIT CLAMP	EACH	*	*	*	*
RED L.E.D. KIT	EACH	7	7	6	6
YELLOW L.E.D. KIT	EACH	7	7	6	6
GREEN L.E.D. KIT	EACH	7	7	6	6
ORANGE/WHITE L.E.D. KIT (PEDESTRIAN SIGNAL - "HAND/MAN" INDICATION)	EACH	8	8	8	8
SPLICE KIT - AERIAL	EACH	1	1	-	-
SPLICE KIT - UNDERGROUND	EACH	-	-	1	1
CLASS 4, WOOD POLE	EACH	-	-	-	-
ENTRANCE HEAD	EACH	1	1	-	-
CIRCUIT BREAKER & BOX 30 AMP	EACH	1	1	1	1
GUY WIRE GUARD	EACH	-	-	-	-
GUY WIRE CLAMP	EACH	-	-	-	-
THIMBLE EYE ANCHOR ROD	EACH	-	-	-	-
COMMUNICATION CABLE 6 PAIR NO. 19 A.W.G.	LIN. FT.	60	90	100	130
DETECTOR LOOP WIRE NO. 14 A.W.G 1/c (TYPE THHN)	LIN. FT.	-	-	-	-
LEAD-IN WIRE NO. 6 A.W.G. 1/c (TYPE THHN)	LIN. FT.	-	-	-	-
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 5/c	LIN. FT.	980	835	820	980
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 7/c	LIN. FT.	-	-	-	-
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 2/c	LIN. FT.	-	-	-	-
SHIELDED DETECTOR LEAD-IN NO. 16 A.W.G. 2/c	LIN. FT.	-	-	-	-
CONDUIT PVC (2")	LIN. FT.	316	341	321	316
CONDUIT RGC (2")	LIN. FT.	84	108	91	44
CONDUIT RGC (3")	LIN. FT.	232	233	230	278
STANDARD IC #8 (GROUND)	LIN. FT.	345	330	335	365
TETHER WIRE 1/4" ASTM A475 Siemens-Martin Grade Min.	LIN. FT.	-	-	-	-
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L. S.	1	1	1	1
STREET NAME SIGNS - SEE CHART D	EACH	3	3	2	2
LEFT TURN YIELD ON GREEN (R10-12) W/ MOUNTING HARDWARE	EACH	-	-	-	-
ONE WAY SIGN (R6-1) W/ MOUNTING HARDWARE	EACH	4	4	4	4
SIDEWALK REMOVE/REPLACE	SQ. YD.	12.0	16.7	4.4	24.8

- Quantities For Information Only -

CHART A SIGNAL SUMMARY

PLAN SHEET	NO. WAYS	NO. SECTIONS (per face)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QUANTITY
3	1	3	R-Y-G	RIGID MAST ARM	4
3	1	3	R-Y-G	VERTICAL BRACKET	3
3	1	2	W-DW	VERTICAL BRACKET	8
4	1	3	R-Y-G	RIGID MAST ARM	4
4	1	3	R-Y-G	VERTICAL BRACKET	3
4	1	2	W-DW	VERTICAL BRACKET	8
5	1	3	R-Y-G	RIGID MAST ARM	4
5	1	3	R-Y-G	VERTICAL BRACKET	2
5	1	2	W-DW	VERTICAL BRACKET	8
6	1	3	R-Y-G	RIGID MAST ARM	4
6	1	3	R-Y-G	VERTICAL BRACKET	2
6	1	2	W-DW	VERTICAL BRACKET	8

CHART D STREET NAME SIGN SUMMARY

LEGEND	SIZE	QUANTITY
Topeka	7'	3
Emporia	7'	3
3rd St	4.5'	2
English	7'	2

SERVICE BOX SUMMARY

PLAN SHT.	STATION	DIST.-SIDE
3	8+48	27' Lt.
3	9+04	26' Lt.
3	9+11.5	32.5' Rt.
3	8+50	32.5' Rt.
4	4+71	26' Lt.
4	5+30	36' Lt.
4	5+24.5	38' Rt.
4	4+70.5	36.5' Rt.
5	8+50	30' Lt.
5	9+07.5	30.5' Lt.
5	9+10	29' Rt.
5	8+50	29' Rt.
6	4+56	29' Lt.
6	5+42	27' Lt.
6	5+40	31' Rt.
6	4+62	31' Rt.

CONTROLLER SUMMARY

ITEM	MODEL NO.	QUAN.
POLE MOUNTED CABINET	336A	1
CONTROLLER (2K RAM MIN.) w/400 modem	170E	1
PROM MODULE	412B	1
CONFLICT MONITOR (ECL or MS)	210P	1
SWITCH PACK	200	4
FLASHER UNIT	204	2
FLASH TRANSFER RELAY	403	4
MODEM	FO-400	--
TERMINATION RACK (BUCKHEAD ASSM.)	---	1
TWO-CHANNEL DETECTOR	822	---
TWO-CHANNEL DC ISOLATOR	242	3

* As Needed

** Removal of existing traffic signal equipment shall include removal of foundations, service boxes, and junction boxes. See construction traffic control regarding removal of existing signals.

NOTES: The contractor shall supply and install all necessary materials and equipment for the complete installation and operation of the traffic signal system whether specifically mentioned or not.

Joint-Use poles to be drilled for Credenza Fixtures.

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1	8/09/02	PER CITY COMMENTS	RLC	SAC
NO.	DATE	REVISIONS	BY	APP'D
CITY OF WICHITA, KANSAS SEDGWICK COUNTY TRAFFIC SIGNAL PLAN				
PROJECT NO. 472-83510 (MS-231001)				
GBA GEORGE BUTLER ASSOCIATES, INC. Engineers - Architects				
DESIGNED	SAC	CHECKED	SAC	PROJ. NO. 9807.00
DRAWN	JDB			DATE JUL. 19, 2002