BILL OF MATERIALS (FOR INFORMATION ONLY)

ITEM	UNIT	ST. FRANCIS & 1st ST. NORTH	MARKET & ENGLISH	MARKET & LEWIS
		QUANT.		
POLE MOUNTED CONTROLLER & CABINET	EACH	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	17
TRAFFIC SIGNAL POLE ((6m (20') STEEL) W/MAST ARM	EACH	–	–	–
TRAFFIC SIGNAL POLE (9m (30') STEEL JOINT USE) W/MAST ARM	EACH	2	2	3
TRAFFIC SIGNAL POLE (9m (30') STEEL JOINT USE) NO MAST ARM	EACH	2	2	1
TRAFFIC SIGNAL PEDESTAL ALUMINUM 4.5m	EACH	–	–	–
CONCRETE CONTROLLER PAD	EACH	–	–	–
CONCRETE FOOTING – PEDESTAL	EACH	–	–	–
CONCRETE FOOTING – POLE	EACH	4	4	4
SCREW–IN STREET LIGHT BASE	EACH	–	–	1
CONDUIT ELBOW 90°	EACH	*	*	*
CONDUIT ELBOW 90° 75mm	EACH	*	*	*
BACK PLATE 125mm 3 SECTION	EACH	4	4	6
BACK PLATE 125mm 4 SECTION	EACH	–	–	–
BACK PLATE 125mm 5 SECTION	EACH	–	–	–
TERMINAL BLOCK	EACH	–	–	–
SERVICE BOX	EACH	4	4	4
JUNCTION BOX	EACH	–	–	–
GROUND ROD & CLAMP	EACH	4	4	4
CONDUIT CLAMP	EACH	*	*	*
RED L.E.D. KIT	EACH	7	7	9
YELLOW L.E.D. KIT	EACH	7	7	9
GREEN L.E.D. KIT	EACH	7	7	9
ORANGE/WHITE L.E.D. KIT (PED. SIGNAL – "HAND/MAN" INDICATION)	EACH	8	8	8
CLASS 4, WOOD POLE	EACH	–	–	–
ENTRANCE HEAD	EACH	–	–	–
CIRCUIT BREAKER & BOX 30 AMP	EACH	1	1	1
GUY WIRE GUARD	EACH	–	–	–
GUY WIRE CLAMP	EACH	–	–	–
THIMBLE EYE ANCHOR ROD	EACH	–	–	–
COMMUNICATION CABLE 5 PAIR NO. 19 A.W.G.	L.M.	5.0	5.0	5.0
DETECTOR LOOP WIRE NO. 14 A.W.G 1/c (TYPE THHN)	L.M.	–	–	–
LEAD–IN WIRE NO. 6 A.W.G. 1/c (TYPE THHN)	L.M.	–	–	–
MULTI–CONDUCTOR CABLE NO. 14 A.W.G. 5/c	L.M.	300.0	270.0	290.0
MULTI–CONDUCTOR CABLE NO. 14 A.W.G. 7/c	L.M.	–	–	–
MULTI–CONDUCTOR CABLE NO. 14 A.W.G. 2/c	L.M.	–	–	–
SHIELDED DETECTOR LEAD–IN NO. 16 A.W.G. 2/c	L.M.	–	–	–
CONDUIT PVC 50mm (2")	L.M.	87.0	81.0	141.0
CONDUIT RGC 50mm (2")	L.M.	15.0	21.0	13.0
CONDUIT RGC 75mm (3")	L.M.	56.0	49.0	51.0
STANDARD 1/c #8 (GROUND)	L.M.	80.0	80.0	80.0
TETHER WIRE 1/4" ASTM A475 Siemens–Martin Grade Min.	L.M.	–	–	–
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L. S.	1	1	1
STREET NAME SIGNS – SEE CHART D	EACH	2	2	3
LEFT TURN YIELD ON GREEN W/ MOUNTING HARDWARE (R10–12)	EACH	–	–	–
ONE WAY SIGN W/MOUNTING HARDWARE (R6–1)	EACH	4	4	4
ACUTIME 2000 – RS232	EACH	–	1	–
ACUTIME INTERCONNECT CABLE	L.M.	–	20.0	–
SIDEWALK REMOVE / REPLACE	S.M.	39.490	6.450	27.950

– 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	6
5	1	2	W–DW	VERTICAL BRACKET	8
5	1	3	R–Y–G	VERTICAL BRACKET	3

SERVICE BOX SUMMARY

PLAN SHT.	STATION	DIST.–SIDE
3	50+009.4	10.13m Lt.
3	50+009.4	11.30m Rt.
3	49+990.9	10.97m Rt.
3	49+990.8	9.47m Lt.
4	40+007.5	9.62m Lt.
4	40+007.6	11.58m Rt.
4	39+991.7	10.63m Rt.
4	39.992.3	11.22m Lt.
5	30+006.7	9.15m Lt.
5	30+007.6	9.52m Rt.
5	29+993.3	9.33m Rt.
5	29+992.9	10.75m Lt.

CHART D STREET NAME SIGN SUMMARY

LEGEND	SIZE	QUANTITY
St Francis	2.134	1
1st St	1.370	1
Market	2.134	3
English	2.134	1
Lewis	2.134	1

* As Needed

** Removal of existing Traffic Signal equipment shall include removal of foundations, service boxes, junction boxes, and old services and risers. See contruction 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. Poles will be an alternative flange plate design.

CONTROLLER SUMMARY *

ITEM	MODEL NO.	QUAN.
POLE MOUNTED CABINET	336A	1
CONTROLLER (2K RAM MIN.) with 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	1

* NOTE: The traffic signal controller at each intersection shall have the equipment as listed in the table.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0275–01	2002	6	18

NO.	DATE	REVISIONS	BY	APP'D
3	06/25/2002	PER CITY/ KDOT COMMENTS	RLC	SAC
2	05/22/2002	PER CITY/ KDOT COMMENTS	JDB	SAC
1	02/01/2002	PER CITY/ KDOT COMMENTS	JDB	SAC

CITY OF WICHITA, KANSAS
SEDGWICK COUNTY
TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL QUANTITIES

PROJECT NO. 472–83419

GBA GEORGE BUTLER ASSOCIATES, INC.
Engineers · Architects

DESIGNED	SAC	CHECKED	SAC	PROJ. NO.	9674.00
DRAWN	JDB			DATE	Dec. 10, 2001

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