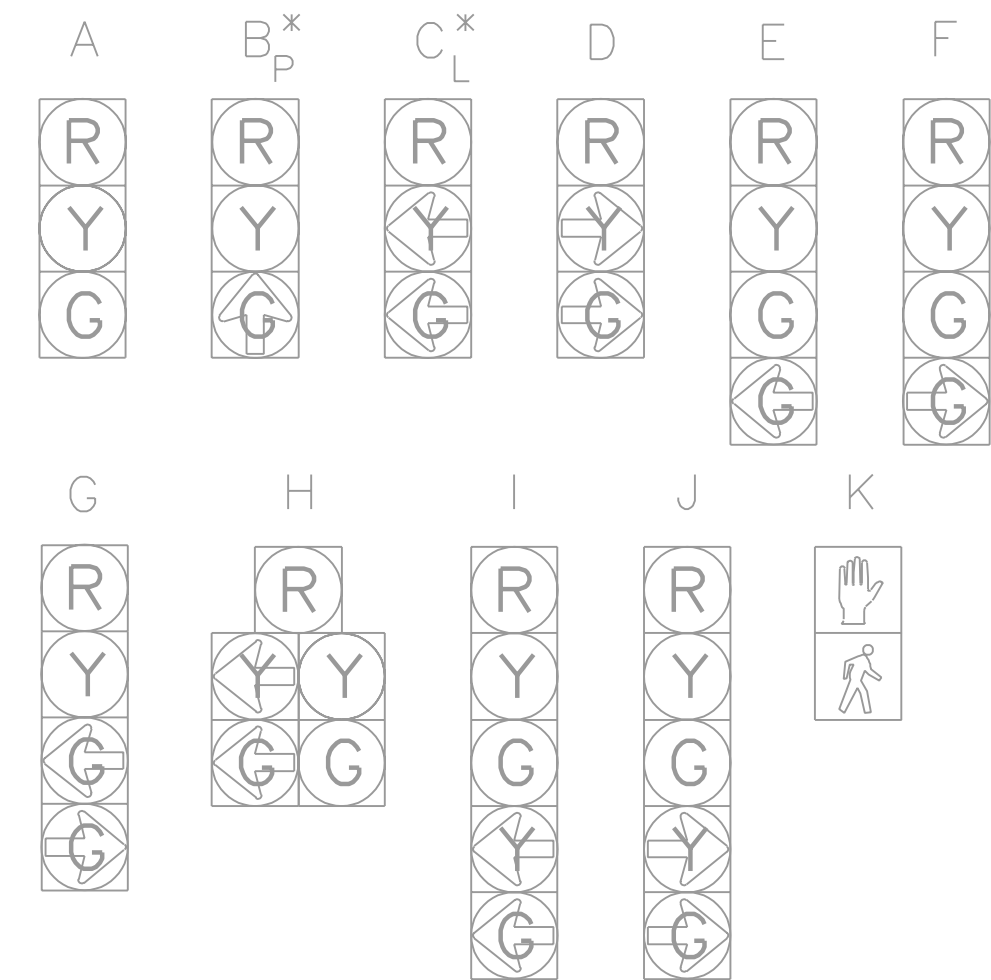


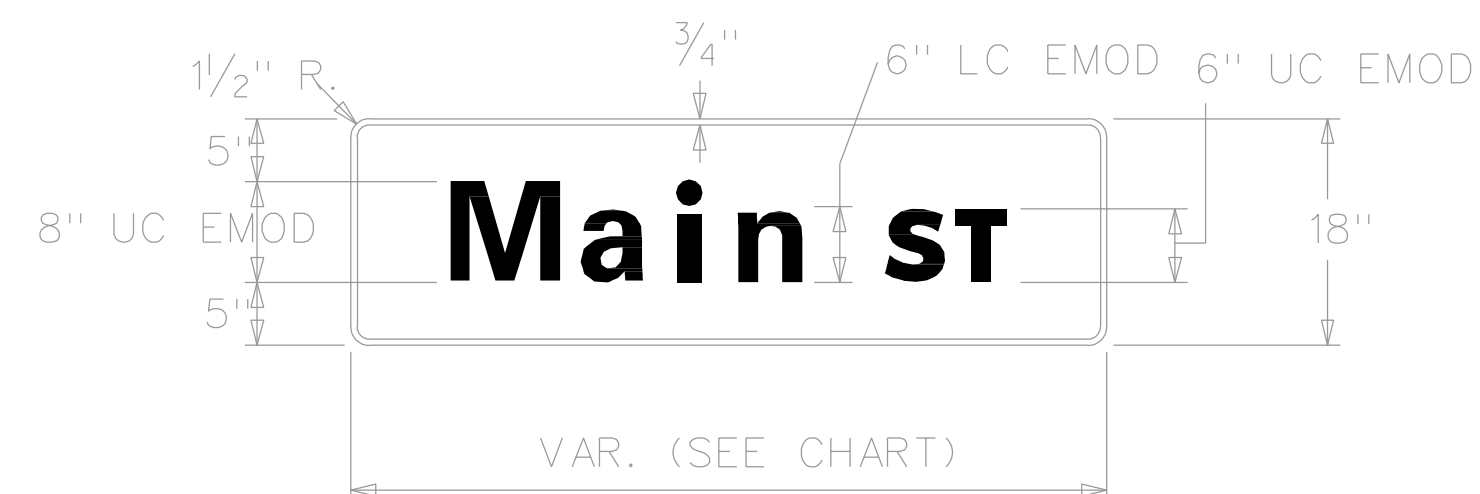
CHART A SIGNAL SUMMARY			
SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
A	3	MAST ARM W/BACKPLATE	4
		MAST ARM W/BACKPLATE	
		MAST ARM W/BACKPLATE	
A	3	SIDE-OF-POLE	2
K	2	SIDE-OF-POLE	4
		SIDE-OF-POLE	



* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS;
 -SUBSCRIPT "L" INDICATES L.E.D. LENSES.-
 ALL LENSES ARE L.E.D.

CHART B TRAFFIC SIGNAL POLES							
POLE HEIGHT	SIGNAL ARM LENGTH	SIGNAL ARM MOUNTING HEIGHT	NO. OF SIGNALS ON ARM	SIGNAL SPACING	LUMINAIRE ARM LENGTH	LUMINAIRE MOUNTING HEIGHT	QUANT.
19 Ft.	34 Ft.	19 Ft.	2	11 Ft.	N/A	N/A	1
19 Ft.	34 Ft.	19 Ft.	2	11 Ft.	N/A	N/A	1

CHART C OVERHEAD STREET NAME SIGNS			
SIGN	LEGEND	LENGTH	QUANTITY



NOTE :
 THE TRAFFIC SIGNAL SYSTEM SHALL BE COMPLETE AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SATISFACTORY OPERATION OF ELECTRICAL APPARATUS AND FOR COMPLETE OPERATION OF THE TRAFFIC SIGNAL SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

BILL OF MATERIALS

ITEM	QUANT.	UNIT	SPEC. NO.	NOTE
CONTROLLER UNIT	1	EACH	3.2.3.5	
PROGRAM MODULE	1	EACH	3.2.3.6	
CONFLICT MONITOR	1	EACH	3.2.3.7	
FLASHER	1	EACH	3.2.3.8	
LOAD SWITCH		EACH	3.2.3.9	
FLASH TRANSFER RELAY	2	EACH	3.2.3.10	
SURGE PROTECTOR		EACH	3.2.3.11	
DC ISOLATOR	2	EACH	3.2.3.12	
AC ISOLATOR		EACH	3.2.3.13	
DETECTOR, 2-CHANNEL		EACH	3.2.3.14	
DETECTOR, 4-CHANNEL		EACH	3.2.3.14	
POLE MOUNTED CABINET	1	EACH	3.2.3.4	
			3.2.3.4.5	
PAD MOUNTED CABINET		EACH	3.2.3.4	
			3.2.3.4.6	
TRAFFIC SIGNAL HEAD	CHART A	EACH	3.2.4	
SIGNAL HEAD MOUNTING BRACKET	CHART A	EACH	3.2.6	
BACK PLATE	CHART A	EACH	3.2.7	
VEHICLE TRAFFIC SIGNAL LAMP	18	EACH	3.2.5	
PEDESTRIAN TRAFFIC SIGNAL LAMP	8	EACH	3.2.5	
L.E.D. LENS	CHART A	EACH	3.2.4.4	
PEDESTRIAN PUSHBUTTON & SIGN	4	EACH	3.2.8, 3.2.9	
TRAFFIC SIGNAL POLE	CHART B	EACH	3.2.10	
TRAFFIC SIGNAL PEDESTAL ALUMINUM	2	EACH	3.2.11	
TERMINAL BLOCK	2	EACH	3.2.12	
JUNCTION BOX	2	EACH	3.2.13, 3.2.14	
SERVICE BOX		EACH	3.2.15	
LUMINAIRE		EACH	3.2.16	
LUMINAIRE LAMP WATT		EACH	3.2.17	
PHOTOCELL		EACH	3.2.18	
UNFUSED STREET LIGHT CONNECTOR KIT		EACH	3.2.19	
FUSED STREET LIGHT CONNECTOR KIT		EACH	3.2.20	
OVERHEAD STREET NAME SIGN	CHART C	EACH	3.2.21	
R10-10 SIGN (24" X 30")		EACH	3.2.22	
R10-12 SIGN (24" X 30")		EACH	3.2.22	
BLANK OUT SIGN		EACH	3.2.23	
ENTRANCE HEAD		EACH	3.2.24	
SERVICE ENCLOSURE, 40 AMP.	1	EACH	3.2.25	
CIRCUIT BREAKER, TRAFFIC SIGNAL, 30 AMP.	1	EACH	3.2.26	
CIRCUIT BREAKER, LUMINAIRE, 15 AMP.	1	EACH	3.2.26	
GROUND ROD & CLAMP	3	EACH	3.2.27, 3.2.28	
SERVICE WIRE NO. 6 AWG 1/C		LIN FT	3.2.29	
LIGHTING DISTRIBUTION WIRE NO. 8 AWG 1/C		LIN FT	3.2.30	
POLE & BRACKET WIRE NO. 10 AWG 1/C		LIN FT	3.2.31	
GROUND WIRE NO. 6 AWG 1/C	120	LIN FT	3.2.32	
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/C	145	LIN FT	3.2.33	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C	350	LIN FT	3.2.33	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C	12	LIN FT	3.2.33	
SHIELDED DETECTOR LEAD-IN CABLE NO. 14 AWG 2/C	10	LIN FT	3.2.34	
DETECTOR LOOP WIRE NO. 14 AWG 1/C		LIN FT	3.2.35	
LOOP SEALANT	AS REQ'D		3.2.36	
PRE-FORMED LOOP		EACH	3.2.37	
CONDUIT, 1" & FITTINGS		LIN FT	3.2.38	
CONDUIT, 1/2" & FITTINGS		LIN FT	3.2.38	
CONDUIT, 2" & FITTINGS	30.0	LIN FT	3.2.38	
CONDUIT, 3" FITTINGS	95.0	LIN FT	3.2.38	
CONDUIT, 4" & FITTINGS		LIN FT	3.2.38	

BID ITEM		
ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL INSTALLATION	L.S.	L.S.

-QUANTITIES FOR INFORMATION ONLY-

3				
2				
1				
NO.	DATE	REVISION	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
TYPE 170E SYSTEM				
TRAFFIC SIGNAL QUANTITIES SHEET				
PEDESTRIAN SIGNAL				
TE130B				03/26/03
DESIGNED	J.F.F./DETAILED	J.F.F./QUANTITIES	Linda G. Voss, P.E.	
DESIGN CK.	G.J.O./DETAIL CK.	G.J.O./QUAN. CK.	TRACE CK.	