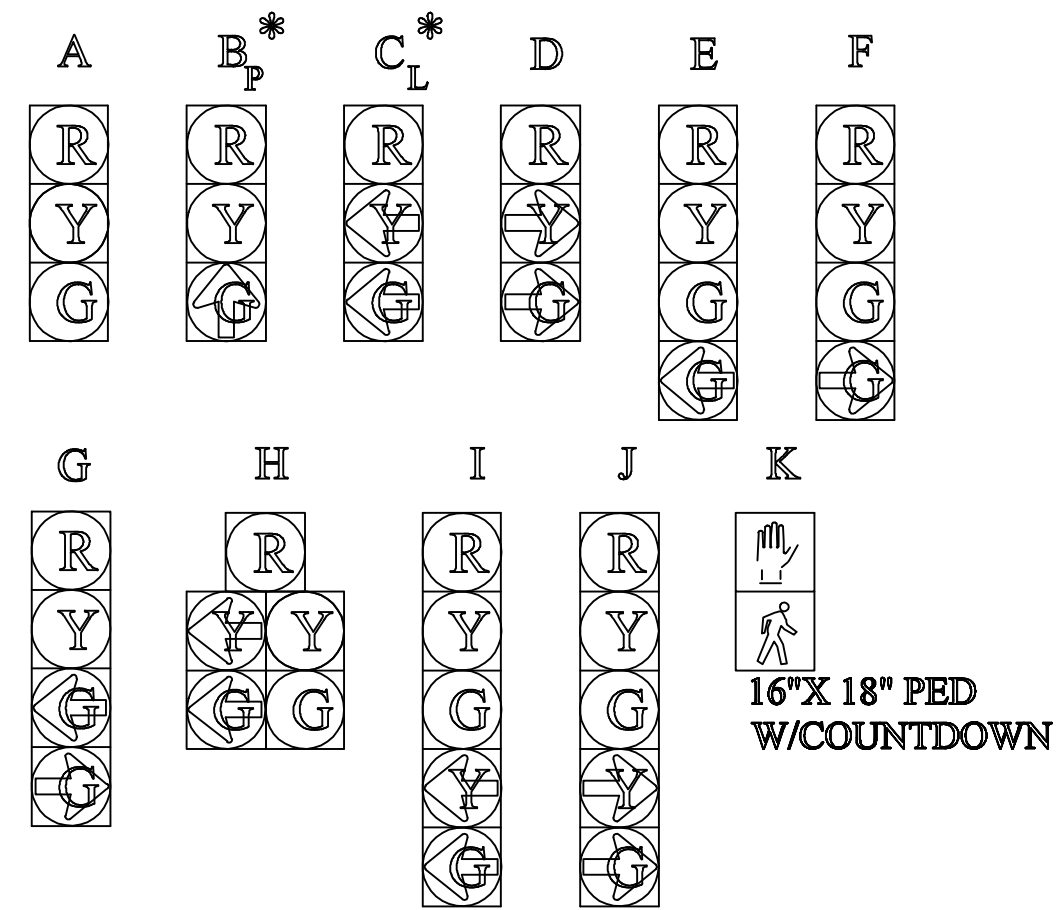


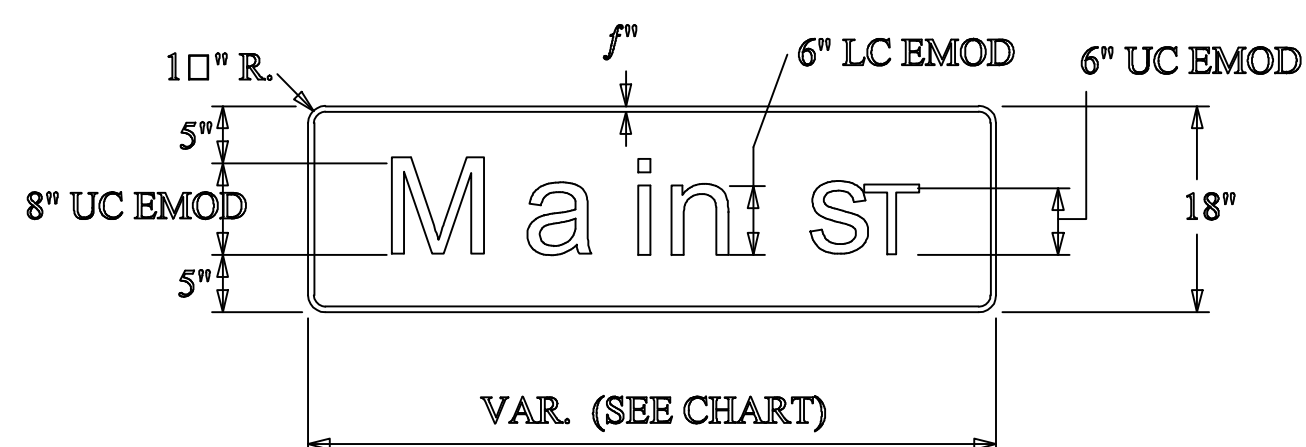
CHART A SIGNAL SUMMARY			
SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
A	3	MAST ARM W/BACKPLATE	6
I	5	MAST ARM W/BACKPLATE	4
		MAST ARM W/BACKPLATE	
A	3	SIDE-OF-POLE	4
K	1	SIDE-OF-POLE	8
		SIDE-OF-POLE	



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

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.	
#1	20'	53'	19'	2'	37', 52'	10'	22'	1
#2	20'	40'	19'	3'	16', 28', 39'	10'	22'	1
#3	20'	41'	19'	2'	25', 40'	10'	22'	1
#4	20'	40'	19'	3'	16', 28', 39'	10'	22'	1

CHART C OVERHEAD STREET NAME SIGNS			
SIGN	LEGEND	LENGTH	QUANTITY
	13th St		2
	Mosley		2



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.
- ALL SIGNALS SHALL BE HI FLUX.
- ALL ARROWS SHALL BE OMNIDIRECTIONAL.

BILL OF MATERIALS

ITEM	QUANT.	UNIT	SPEC. NO.	NOTE
CONTROLLER UNIT (2070)	1	EACH	3.2.3.5	
PROGRAM MODULE	-	EACH	3.2.3.6	
CONFLICT MONITOR (2010 ECL)	1	EACH	3.2.3.7	
FLASHER	-	EACH	3.2.3.8	
LOAD SWITCH	-	EACH	3.2.3.9	
FLASH TRANSFER RELAY	-	EACH	3.2.3.10	
SURGE PROTECTOR	-	EACH	3.2.3.11	
DC ISOLATOR	-	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	-	EACH	3.2.3.4.5	
			3.2.3.4.6	
PAD MOUNTED CABINET	1	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	52	EACH	3.2.5	
PEDESTRIAN TRAFFIC SIGNAL LAMP	16	EACH	3.2.5	
L.E.D. LENS	CHART A	EACH	3.2.4.4	
PEDESTRIAN PUSHBUTTON & SIGN	8	EACH	3.2.8, 3.2.9	
TRAFFIC SIGNAL POLE	CHART B	EACH	3.2.10	
TRAFFIC SIGNAL PEDESTAL ALUMINUM	-	EACH	3.2.11	
TERMINAL BLOCK	-	EACH	3.2.12	
JUNCTION BOX	AS NEEDED	EACH	3.2.13, 3.2.14	
SERVICE BOX	4	EACH	3.2.15	
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")	4	EACH	3.2.22	
BLANK OUT SIGN	-	EACH	3.2.23	
ENTRANCE HEAD	-	EACH	3.2.24	
SERVICE ENCLOSURE, AMP.	-	EACH	3.2.25	
CIRCUIT BREAKER, TRAFFIC SIGNAL, AMP.	1	EACH	3.2.26	
CIRCUIT BREAKER, LUMINAIRE, AMP.	-	EACH	3.2.26	
GROUND ROD & CLAMP	5	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	325	LIN FT	3.2.32	
VIDEO CABLE 75 OHM COAXIAL BELDEN 8281LCX	633	LIN FT		
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C	1266	LIN FT	3.2.33	
MULTI-CONDUCTOR CABLE NO. 14 AWG /C	-	LIN FT	3.2.33	
MULTI-CONDUCTOR CABLE NO. 14 AWG /C	-	LIN FT	3.2.33	
VIDEO CABLE (POWER) (V3)	720			
CONDUIT, 1" & FITTINGS	-	LIN FT	3.2.38	
CONDUIT, 1 1/4" & FITTINGS	18	LIN FT	3.2.38	
CONDUIT, 2" & FITTINGS	21	LIN FT	3.2.38	
CONDUIT, 3" FITTINGS	456	LIN FT	3.2.38	
CONDUIT, 4" & FITTINGS	-	LIN FT	3.2.38	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87N-0238-01	2009	33	59

BID ITEM		
ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL INSTALLATION	L.S.	1

-QUANTITIES FOR INFORMATION ONLY-

NO.	DATE	REVISION	BY	APPD
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE SYSTEM
TRAFFIC SIGNAL QUANTITIES SHEET

TE130B 03/26/03

DESIGNED	BY	DATE	APPD	DATE	BY
DRAWN	BY	DATE	APPD	DATE	BY
CHECKED	BY	DATE	APPD	DATE	BY
DESIGNED	BY	DATE	APPD	DATE	BY