CHART A SIGNAL HEADS

NUMBER OF SECTIONS	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QTY.
3	A	RIGID MAST ARM	4
5	C	RIGID MAST ARM	4
3	A	VERTICAL BRACKET	4
2	F	PEDESTAL	4
2	F	VERTICAL BRACKET	4
TOTAL			20

CHART B TRAFFIC SIGNAL POLES

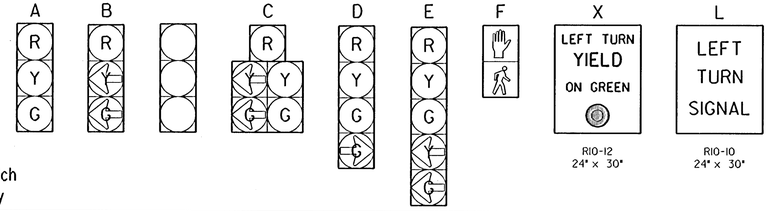
POLE NO.	POLE HEIGHT	ARM HEIGHT	ARM LENGTH	NO. OF SIGNALS ON ARM	SIGNAL SPACING	LUMINARE MOUNTING HEIGHT
1	35'	19'	36'	2	35.5'/19'	35'
2	20'	19'	46'	2	45'/29'	—
3	15'	—	—	—	—	—
4	20'	19'	44'	2	43'/27'	—
5	20'	19'	46'	2	45.5'/29'	—
6	15'	—	—	—	—	—

CHART C DETECTOR OPERATIONS

LOOP LABEL	MODE	SIZE	NUMBER OF TURNS	PHASE CALLED	PHASE EXTENDED	DELAY/ STRETCH TIMER	INITIAL SETTING (SEC)
11	PRESENCE	50x6	2-4-2	1	1	-	-
21	PRESENCE	50x6	2-4-2	2	2	-	-
22	PRESENCE	50x6	3	2	2	-	-
23	PRESENCE	20x6	3	2	2	S	1.0
24	PRESENCE	6x6	3	2	2	S	1.0
25	PRESENCE	6x6	3	2	2	S	1.0
26	PRESENCE	6x6	3	2	2	S	1.0
27	PRESENCE	6x6	3	2	2	S	1.0
28	PRESENCE	6x6	3	2	2	S	1.0
29	PRESENCE	6x6	3	2	2	S	1.0
31	PRESENCE	50x6	2-4-2	3	3	-	-
41	PRESENCE	50x6	2-4-2	4	4	-	-
42	PRESENCE	50x6	3	4	4	-	-
43	PRESENCE	6x6	3	4	4	S	1.0
44	PRESENCE	6x6	3	4	4	S	1.0
45	PRESENCE	6x6	3	4	4	S	1.0
46	PRESENCE	6x6	3	4	4	S	1.0
47	PRESENCE	6x6	3	4	4	S	1.0
48	PRESENCE	6x6	3	4	4	S	1.0
51	PRESENCE	50x6	2-4-2	5	5	-	-
61	PRESENCE	50x6	2-4-2	6	6	-	-
62	PRESENCE	50x6	3	6	6	-	-
63	PRESENCE	6x6	3	6	6	S	1.0
64	PRESENCE	6x6	3	6	6	S	1.0
65	PRESENCE	6x6	3	6	6	S	1.0
66	PRESENCE	6x6	3	6	6	S	1.0
67	PRESENCE	6x6	3	6	6	S	1.0
68	PRESENCE	6x6	3	6	6	S	1.0
69	PRESENCE	6x6	3	6	6	S	1.0
71	PRESENCE	50x6	2-4-2	7	7	-	-
81	PRESENCE	50x6	2-4-2	8	8	-	-
82	PRESENCE	50x6	3	8	8	-	-
83	PRESENCE	6x6	3	8	8	S	1.0
84	PRESENCE	6x6	3	8	8	S	1.0
85	PRESENCE	6x6	3	8	8	S	1.0
86	PRESENCE	6x6	3	8	8	S	1.0
87	PRESENCE	6x6	3	8	8	S	1.0
88	PRESENCE	6x6	3	8	8	S	1.0

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (see chart A) W/MOUNTING HARDWARE	EACH	20*
TRAFFIC SIGNAL POLE (see chart B), STEEL	EACH	4
TRAFFIC SIGNAL PEDESTAL, ALUMINUM 15'	EACH	2
LOOP DETECTOR (see chart C)	EACH	19
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - POLE	EACH	4
CONCRETE FOOTING - PEDESTAL	EACH	2
BACKPLATE 5" 3 SECTION	EACH	8
BACKPLATE 5" 5 SECTION	EACH	4
TERMINAL BLOCK	EACH	AS REQ'D.
SERVICE BOX	EACH	4
JUNCTION BOX	EACH	16
GROUND ROD & CLAMP	EACH	8
TRAFFIC SIGNAL LAMP 135 WATT KRYPTON	EACH	48
LED RED TRAFFIC SIGNAL LENS	EACH	12
LED DONT WALK (SYMBOLIC) SIGNAL LENS	EACH	8
ENTRANCE HEAD	EACH	1
CIRCUIT BREAKER & BOX 50 AMP	EACH	1
SURGE ARRESTOR - CONTROLLER	EACH	1
SURGE ARRESTOR - DETECTOR	EACH	—
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
CONDUIT 3/4" RGC	LIN.FT.	650
CONDUIT 1" RGC	LIN.FT.	600
CONDUIT 1 1/2" RGC	LIN.FT.	500
CONDUIT 2" RGC	LIN.FT.	225
CONDUIT 3" RGC	LIN.FT.	525
CONDUIT ELBOW 90° (2")	EACH	AS REQUIRED
CONDUIT ELBOW 90° (3")	EACH	AS REQUIRED
CONDUIT CLAMP	EACH	AS REQUIRED
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 3/c	LIN.FT.	350
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 5/c	LIN.FT.	300
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 7/c	LIN.FT.	300
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 10/c	LIN.FT.	200
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 19/c	LIN.FT.	800
POWER LEAD-IN CABLE NO.6 A.W.G. 1/c	LIN.FT.	200
SHIELDED DETECTOR LEAD-IN WIRE NO.16 A.W.G. 2/c	LIN.FT.	275
SHIELDED DETECTOR LEAD-IN WIRE NO.18 A.W.G. 4/c	LIN.FT.	7,700
DETECTOR LOOP WIRE NO.14 A.W.G. 1/c	LIN.FT.	11,250
NO. 6 AWG COMMON GROUND (GREEN) 1/c	LIN.FT.	225
OVERHEAD STREET NAME SIGN (HIGH INTENSITY SHEETING)	EACH	4
R10-12 SIGN (24"X30")(HIGH INTENSITY SHEETING)	EACH	4
--- Quantities For Information Only ---		

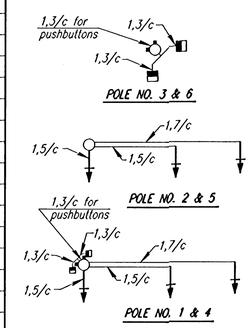


* NOTE: 12" Dont Walk (symbolic) signal heads shall be LED type.

FHWA REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	618-34	1998	86	169

CHART D OVERHEAD STREET NAME SIGNS

LEGEND	LENGTH	QUANTITY
Central	5'-0"	2
Greenwich Rd	10'-0"	2



POLE WIRING DIAGRAM

WIRING DIAGRAM

NOTE: 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.

RECAPITULATION OF TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL INSTALLATION (CENTRAL & GREENWICH RD.)	LUMP SUM	LUMP SUM

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

Central Ave. and Greenwich Road

T.S. No. 1.0

PREPARED BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
HIGHWAY DIVISION

DAVID C. SPEARS, P.E. — DIRECTOR/COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
		BER		WDH	
	DATE	JULY, 1997			
	PLANFILE TS-1-0.DWG		TOTAL SHEETS		

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Drawn by: Jgp
Plotted by: DJW 11-11-97