

G:\CIVIL\98092\SIGNAL\98092a.dwg Wed Oct 24 17:03:25 2001

BILL OF MATERIALS (FOR INFORMATION ONLY)		
ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL POLE STEEL W/MASTARM (JOINT USE)	EACH	2
TRAFFIC SIGNAL POLE STEEL W/MASTARM (STD. POLE)	EACH	2
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - POLE	EACH	4
SERVICE BOX - 36 IN. DIA.	EACH	4
JUNCTION BOX - 24 IN. DIA. (INCLUDES INTERCONNECT)	EACH	8
GROUND ROD & CLAMP	EACH	6
CONDUIT CLAMP	EACH	AS REQUIRED
TRAFFIC SIGNAL LAMP 135 WATT	EACH	38
PEDESTRIAN SIGNAL LAMP 105 WATT	EACH	16
RED LENS L.E.D. UNIT	EACH	15
ENTRANCE HEAD	EACH	1
CIRCUIT BREAKER & BOX	EACH	1
BACK PLATE FOR SIGNAL HEAD (TYPE A)	EACH	7
BACK PLATE FOR SIGNAL HEAD (TYPE I)	EACH	4
TRAFFIC SIGNAL HEAD - 12" (TYPE A) W/MOUNTING BRACKET	EACH	11
TRAFFIC SIGNAL HEAD - 12" (TYPE I) W/MOUNTING BRACKET	EACH	4
PEDESTRIAN SIGNAL - 12" (TYPE K) W/MOUNTING BRACKET	EACH	8
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
PAD MOUNTED CABINET & CONTROLLER SYSTEM-TYPE 170(SEE NOTE)	EACH	1
LEAD-IN WIRE NO. 6 AWG 1/c (TYPE THHN)	LIN. FT.	25
DETECTOR LOOP WIRE NO. 14, AWG 1/c (TYPE THHN)	LIN. FT.	3,140
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/c	LIN. FT.	385
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/c	LIN. FT.	1,345
SHIELDED DETECTOR LEAD-IN NO. 14 AWG 2/C	LIN. FT.	3,385
6 PR. #19 COMMUNICATION CABLE (2ND. ST. TO McLEAN)	LIN. FT.	1,255
CONDUIT 3/4"	LIN. FT.	565
CONDUIT 1"	LIN. FT.	15
CONDUIT 1-1/4"	LIN. FT.	250
CONDUIT 2" (INCLUDES INTERCONNECT)	LIN. FT.	785
CONDUIT 3"	LIN. FT.	415
STANDARD 1C #8 (TYPE THHN)(GROUND)	LIN. FT.	550
STREET NAME SIGNS	EACH	4
LEFT TURN YIELD ON GREEN (R10-12) W/MOUNTING HARDWARE	EACH	4

TYPE 170 TRAFFIC CONTROLLER SYSTEM TO INCLUDE:

ONE (1) MODEL 170E CONTROLLER UNIT COMPLETE WITH 412B2 SYSTEM MEMORY MODULE CAPABLE OF SUPPORTING WAPITI MICRO SYSTEM W4IKS (LATEST REVISION) TRAFFIC PROGRAM ON 27256 EPROM WITH 400 MODEM.

ONE (1) MODEL 332 CABINET COMPLETE WITH ALL ACCESSORIES INCLUDING FOUR (4) MODEL 430 TRANSFER RELAYS, TWO (2) MODEL 204 FLASHER UNITS AND ONE (1) MODEL 210PC CONFLICT MONITOR.

THREE (3) MODEL 242 TWO CHANNEL ISOLATORS.

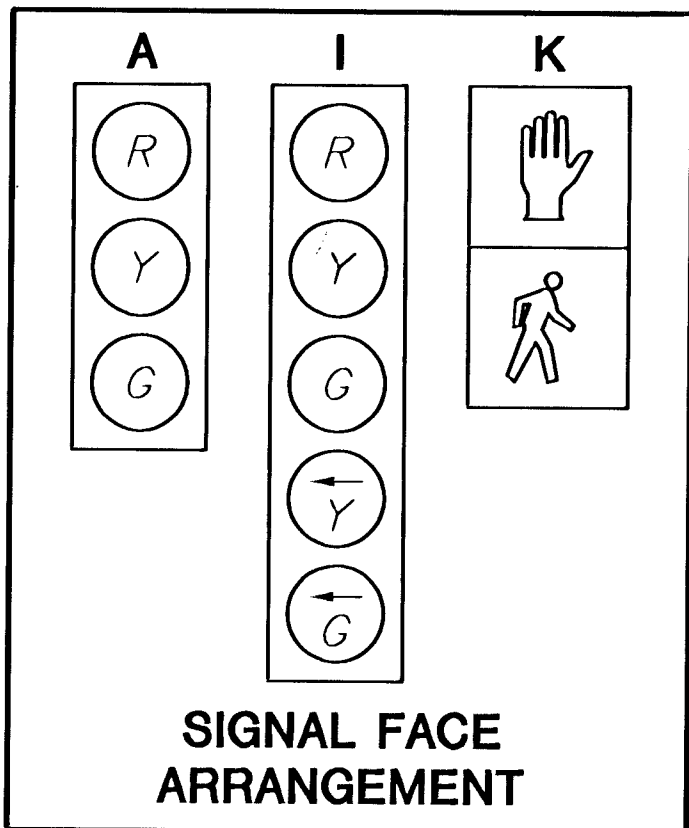
TWELVE (12) MODEL 222 TWO CHANNEL LOOP DETECTOR SENSOR UNITS (800).

TWELVE (12) MODEL 200 SWITCH PACKS.

ONE (1) STAND ALONE HAYES COMPATIBLE MODEM.

NOTE: THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY MATERIAL AND EQUIPMENT FOR THE COMPLETE INSTALLATION AND OPERATION OF THE TRAFFIC SIGNAL WHETHER SPECIFICALLY MENTIONED OR NOT.

TRAFFIC SIGNAL HEAD SUMMARY				
SIGNAL NO.	TYPE	SIZE	MOUNTING BRACKET	QUANTITY
1	A	3-12"	TYPE I	2
1A	A	3-12"	TYPE III	1
1B	I	5-12"	TYPE I	1
2	K	2-12"	TYPE II	2
3	A	3-12"	TYPE I	1
3A	A	3-12"	TYPE III	1
3B	I	5-12"	TYPE I	1
4	K	2-12"	TYPE II	2
5	A	3-12"	TYPE I	2
5A	A	3-12"	TYPE III	1
5B	I	5-12"	TYPE I	1
6	K	2-12"	TYPE II	2
7	A	3-12"	TYPE I	2
7A	A	3-12"	TYPE III	1
7B	I	5-12"	TYPE I	1
8	K	2-12"	TYPE II	2



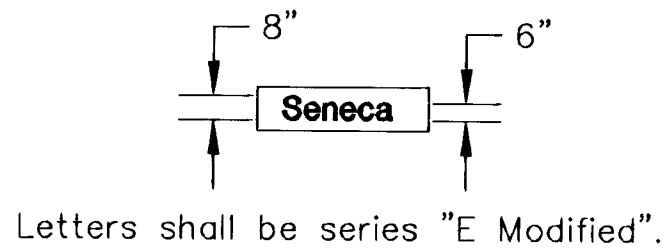
SIGNAL FACE ARRANGEMENT

Red lens in each head shall be L.E.D. unit per note.

TRAFFIC SIGNAL POLE SUMMARY							
STATION	TYPE	ARM LENGTH	SIGNALS ON ARM	X1	X2	OTHER EQUIP. ON ARM	SIGNALS ON POLE
45+54, Lt.	A	34'	3-D	8	11	C, F, 3-G	2-E, 1-D
45+59, Rt.	A	39'	3-D	8	11	C, F, 3-G	2-E, 1-D
46+26, Lt.	B	25'	2-D	8		C, F, 2-G	2-E, 1-D
46+35, Rt.	B	34'	3-D	8	11	C, F, 3-G	2-E, 1-D

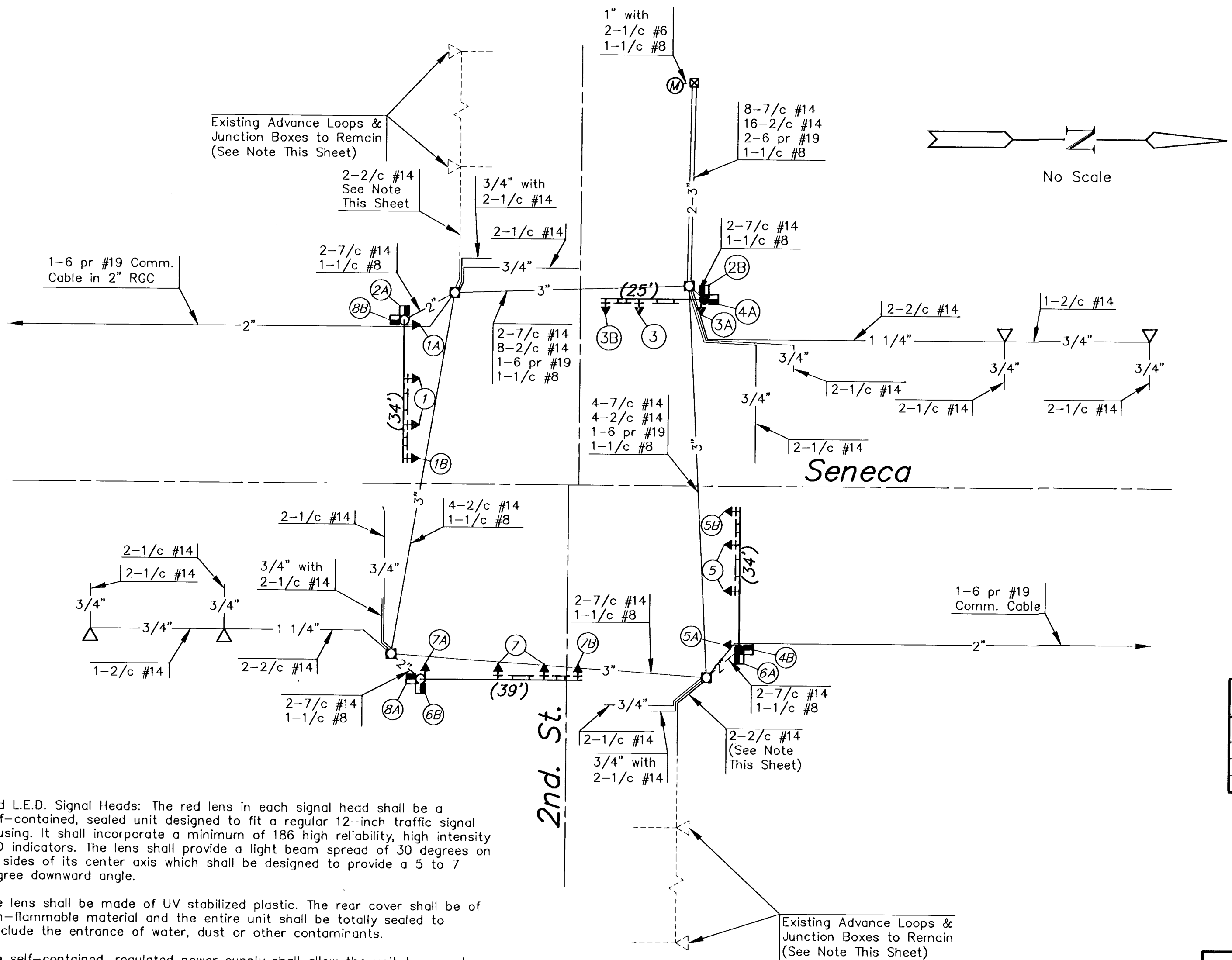
A JOINT USE STEEL POLE WITH MAST ARM
B STANDARD STEEL POLE WITH MAST ARM
C PROTECTED TURN SIGN
D TRAFFIC SIGNAL
E PEDESTRIAN SIGNAL WITH PUSH BUTTON
F STREET NAME SIGN
G BACKPLATE FOR SIGNAL HEAD

STREET NAME SIGN SUMMARY	
LEGEND	QUANTITY
Seneca	2
2nd St	2
TOTAL	4



LEGEND

- Steel Traffic Signal Pole (Joint use)
- Steel Traffic Signal Pole (Std. Pole)
- ➡ Traffic Signal Indication
- ➡ Traffic Signal Indication with Back Plate
- ⬇ Mast Arm Suspended Traffic Signal
- ☐ Service Box
- ☒ Controller
- Pedestrian Indication
- ◁ Junction Box
- Rigid Galvanized Conduit (RGC)
- Ⓜ Meter Box and Power Disconnect
- TT Overhead Street Name Sign
- TT Overhead Sign R10-12 (Lt. Turn Yield on Green)

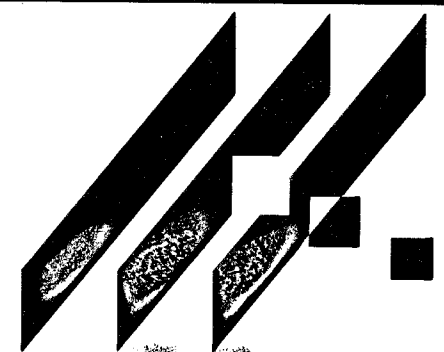


Note:

Remove existing 2/c #14 between each Junction Box and Controller. Cut and remove existing conduit in area of construction. Replace with same new conduit. Connect and install new 2/c #14 from each Junction Box to new Controller.

RECAPITULATION OF TRAFFIC SIGNAL QUANTITIES

BID ITEM	QUANTITY	UNIT
TRAFFIC SIGNAL INSTALLATION (SENECA & 2ND. ST.)	1	LUMP SUM



MID-KANSAS ENGINEERING
CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

SOUTH SENECA STREET

PROJECT NAME

SENECA/2ND. ST.

TRAFFIC SIGNAL SUMMARY

SHEET TITLE

DCH

DESIGN BY:

WNJ

DRAWN BY:

DCH

CHECKED BY:

OCT. 2001

DATE

98092WR2

JOB NO.

50 / 87

SHEET OF