

BY	DATE			
REFERENCES NOTED				
REFERENCES CHECKED				

BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
Model 170 Controller System	Each	1
Concrete Base for Controller Cabinet	Each	1
Traffic Signal Pole	Each	4
Mast Arm	Each	4
Concrete Base for Traffic Signal Pole/Pedestal	Each	4
Traffic Signal Head (Type A)	Each	8
Traffic Signal Head (Type I)	Each	2
Traffic Signal Head (Type L)	Each	8
Mounting Bracket (Type I)	Each	9
Mounting Bracket (Type II)	Each	4
Mounting Bracket (Type III)	Each	1
Traffic Signal Lamp*	Each	50
Pedestrian Push Button (One piece with sign)	Each	8
Ground Rod and Clamp	Each	6
Meter Enclosure (Meter by K.G.&E.)	Each	1
Power Disconnect	Each	1
Service Box	Each	4
Junction Box	Each	10
Backplates	Each	10
76mm Conduit (Rigid Galvanized Conduit)	Meter	121.0
50mm Conduit (Rigid Galvanized Conduit)	Meter	18.3
32mm Conduit (Rigid Galvanized Conduit)	Meter	133.9
25mm Conduit (Rigid Galvanized Conduit)	Meter	32.1
19mm Conduit (Rigid Galvanized Conduit)	Meter	184.3
Multi Conductor Cable 2C #14 AWG	Meter	8.5
Multi Conductor Cable 5C #14 AWG	Meter	221.9
Multi Conductor Cable 7C #14 AWG	Meter	256.1
6PR Shielded Comm. Cable #19 AWG	Meter	113.0
Ground Wire (Type THHN Stranded) #8 AWG	Meter	130.7
Shielded Loop Feeder Cable 2C #14 AWG	Meter	1057.9
Loop Detector Wire (Type THHN) #14 AWG	Meter	818.2
Power Lead-in Wire (Type USE) #6 AWG	Meter	70
Left Turn Yield on "Green Ball" Sign (R10-12)	Each	2
Sign Mounting Bracket	Each	2
Street Name Sign and Brackets	Each	4

* TRAFFIC SIGNAL LAMPS SHALL BE 130 VOLT, 8000 HOUR RATING

TRAFFIC SIGNAL POLE SUMMARY								
STATION	OFFSET	MAST ARM LENGTH	NO. OF SIGNALS ON MAST ARM	BRACKET TYPE	NO. OF SIGNALS ON POLE	BRACKET TYPE	NO. OF PUSH BUTTONS ON POLE	REMARKS
0+369.15	10 69 Lt.	12 m	3	I	2	II	2	S.N.S. and R10-12 mounted on arm
0+391.67	10 99 Lt.	7 m	2	I	2	II	2	S.N.S. mounted on arm
0+397.66	11 56 Rt.	8 m	2	I	3	II & III	2	S.N.S. and R10-12 mounted on arm
0+372.92	13 69 Rt.	9 m	2	I	2	II	2	S.N.S. mounted on arm

MERIDIAN & DOUGLAS

BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
Model 170 Controller System	Each	1
Concrete Base for Controller Cabinet	Each	1
Traffic Signal Pole	Each	4
Mast Arm	Each	4
Concrete Base for Traffic Signal Pole/Pedestal	Each	4
Traffic Signal Head (Type A)	Each	8
Traffic Signal Head (Type I)	Each	4
Traffic Signal Head (Type L)	Each	8
Mounting Bracket (Type I)	Each	8
Mounting Bracket (Type II)	Each	4
Mounting Bracket (Type III)	Each	4
Traffic Signal Lamp*	Each	60
Pedestrian Push Button (One piece with sign)	Each	8
Ground Rod and Clamp	Each	5
Meter Enclosure (Meter by K.G.&E.)	Each	1
Power Disconnect	Each	1
Service Box	Each	4
Junction Box	Each	12
Backplate	Each	12
76 mm Conduit (Rigid Galvanized Conduit)	Meter	80.6
50 mm Conduit (Rigid Galvanized Conduit)	Meter	10.8
32 mm Conduit (Rigid Galvanized Conduit)	Meter	142.8
25 mm Conduit (Rigid Galvanized Conduit)	Meter	6.7
19 mm Conduit (Rigid Galvanized Conduit)	Meter	174.4
Multi Conductor Cable 2C #14 AWG	Meter	8.5
Multi Conductor Cable 5C #14 AWG	Meter	108.4
Multi Conductor Cable 7C #14 AWG	Meter	228.6
6PR Shielded Comm. Cable #19 AWG	Meter	71.6
Ground Wire (Type THHN Stranded) #8 AWG	Meter	33.1
Shielded Loop Feeder Cable 2C #14 AWG	Meter	932.0
Loop Detector Wire (Type THHN) #14 AWG	Meter	1007.6
Power Lead-in Wire (Type USE) #6 AWG	Meter	19.4
Left Turn Yield on "Green Ball" Sign (R10-12)	Each	4
Sign Mounting Bracket	Each	4
Street Name Sign and Brackets	Each	4

* TRAFFIC SIGNAL LAMPS SHALL BE 130 VOLT, 8000 HOUR RATING

TRAFFIC SIGNAL POLE SUMMARY								
STATION	OFFSET	MAST ARM LENGTH	NO. OF SIGNALS ON MAST ARM	BRACKET TYPE	NO. OF SIGNALS ON POLE	BRACKET TYPE	NO. OF PUSH BUTTONS ON POLE	REMARKS
0+792.59	6 67 Lt.	8 m	2	I	3	II & III	2	S.N.S. and R10-12 mounted on arm
0+794.54	13 75 Rt.	7 m	2	I	3	II & III	2	S.N.S. and R10-12 mounted on arm
0+813.51	8 69 Rt.	7 m	2	I	3	II & III	2	S.N.S. and R10-12 mounted on arm
0+814.39	9 87 Rt.	7 m	2	I	3	II & III	2	S.N.S. and R10-12 mounted on arm

MERIDIAN & 2ND STREET

SUMMARY OF SERVICE AND JUNCTION BOXES

STATION	OFFSET	SERVICE BOX	JUNCTION BOX
0+287.73	9 49 Rt.		X
0+338.28	9 06 Rt.		X
0+369.02	9 07 Rt.		X
0+374.44	12 68 Rt.	X	
0+393.39	6 54 Lt.	X	
0+427.06	5 40 Lt.		X
0+471.23	5 40 Lt.		X
0+370.86	12 61 Lt.	X	
0+412.00	6 89 Rt.		X
0+446.05	6 82 Rt.		X
0+477.83	6 82 Rt.		X
0+394.36	12 57 Lt.	X	
0+544.53	8 50 Lt.		X
0+589.42	8 50 Lt.		X

* Douglas Street Stationing

INTERCONNECTION SYSTEM

BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
Junction Box	Each	30
50 mm Conduit (Rigid Galvanized Conduit)	Meter	1509.0
6PR Shielded Comm. Cable #19 AWG	Meter	1555.0

SUMMARY OF SERVICE AND JUNCTION BOXES

STATION	OFFSET	SERVICE BOX	JUNCTION BOX
0+093.04	6 69 Lt.		X
0+138.56	6 69 Lt.		X
0+183.06	6 69 Lt.		X
0+228.60	12 78 Lt.		X
0+269.50	12 78 Lt.		X
0+317.90	12 78 Lt.		X
0+443.39	6 69 Lt.		X
0+493.33	6 69 Lt.		X
0+541.73	6 69 Lt.		X
0+593.39	6 69 Lt.		X
0+645.36	6 10 Lt.		X
0+693.39	6 10 Lt.		X
0+743.36	6 10 Lt.		X
0+818.13	7 94 Rt.		X
0+850.06	6 88 Rt.		X
0+900.43	6 69 Rt.		X
0+953.41	6 69 Rt.		X
1+006.41	6 69 Rt.		X
1+059.42	6 69 Rt.		X
1+112.42	6 69 Rt.		X
1+165.42	6 69 Rt.		X
1+215.77	6 69 Rt.		X
1+268.56	6 69 Rt.		X
1+318.56	6 69 Rt.		X
1+363.38	7 65 Rt.		X
1+405.73	7 65 Rt.		X
1+451.18	8 85 Rt.		X
1+474.43	9 63 Rt.		X
1+490.41	18 24 Rt.		X
1+534.63	47 59 Rt.		X

Junction boxes between station 0+046.54 and station 0+309.21 connect Maple and Douglas. (Max. Spacing 53.3)

Junction boxes between station 0+443.39 and station 0+743.36 connect Douglas and 2nd Street. (Max Spacing 53.3)

Junction boxes between station 0+818.11 and station 1+534.63 connect Maple and Douglas. (Max Spacing 53.3)

SUMMARY OF SERVICE AND JUNCTION BOXES

STATION	OFFSET	SERVICE BOX	JUNCTION BOX
0+719.98	9 00 Rt.		X
0+760.85	9 00 Rt.		X
0+782.25	9 00 Rt.		X
0+793.24	11 04 Rt.	X	
0+791.37	5 35 Lt.	X	
0+414.66	7 60 Rt.		X
0+458.66	8 23 Rt.		X
0+480.56	8 89 Rt.		X
0+811.80	13 16 Rt.	X	
0+523.63	4 98 Lt.		X
0+552.10	4 98 Lt.		X
0+589.53	4 98 Lt.		X
0+811.05	8 56 Lt.	X	
0+821.74	5 25 Lt.		X
0+862.68	6 27 Lt.		X
0+891.00	6 60 Lt.		X

* 2nd Street Stationing

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Junction Box	Each	2
32 mm Conduit (Rigid Galvanized Conduit)	Meter	3.5
19 mm Conduit (Rigid Galvanized Conduit)	Meter	43.4
Shielded Loop Feeder Cable 2C #14 AWG	Meter	50.4
Loop Detector Wire (Type THHN) #14 AWG	Meter	56.8

SUMMARY OF SERVICE AND JUNCTION BOXES

STATION	OFFSET	SERVICE BOX	JUNCTION BOX
0+047.36	4.30m Lt.		X
0+090.76	4.30m Lt.		X

MERIDIAN & MAPLE

(See Sheets)

TRAFFIC SIGNAL QUANTITIES				
MERIDIAN IMPROVEMENTS				
	924 NORTH MAIN	316-264-8008	REVISION	
	WICHITA, KANSAS 67203	FAX 316-448-8211		
SAVOY, RUGGLES & BOHM, P.A.		ENGINEERING & SURVEYING		
PROJECT NUMBER				
472-76-245-82740-000-000-001				
DRAWN	DESIGN	REVIEW	DATE	UTILITY
KWL	KWL	JCR	Jan. 11, 1999	SRB JOB 539T
				94
				162