TRAFFIC SIGNAL POLES

ITEM	UNIT	EST. QUANTITIES (*)
Model 170 Controller (See Inclusive List Below)	Each	1
Controller Cabinet	Each	1
Concrete Base for Controller	Each	1
Traffic Signal w/ Mast Arm (See Chart Below)	Each	4
Concrete Base for Signal Poles	Each	4
Traffic Signal Head (Type A) w/ Backplate & Brkt	Each	10
Traffic Signal Head (Type I) w/ Backplate & Brkt	Each	2
Traffic Signal Head (Type L) w/ Backplate	Each	4
Traffic Signal Lamp (LED Indication)	Each	68
R10-12 (Left Turn Yield On Green) w/ Mtg. Brackets	Each	2
D3 Assy. (Street Name Size) w. Mtg. Brackets	Each	4
Pedestrian Puchbutton w/ Sign	Each	8
Ground Rod & Clamp	Each	6
Service Box	Each	4
3" RGC Conduit	L.F.	475
2" RGC Conduit	L.F.	70
1" RGC Conduit	L.F.	As Required
2" PVC (Street Light Conduit)	L.F.	415
Video Detection Camera and Mounting Hardware	Each	4
Video Detection Processor	Each	1
Camera Housing	Each	4
Video Detection Processor Unit	Each	4
Video Power Cable No. 16 AWG 3/C	L.F.	870
Video Cable 75 OHM Coaxial	L.F.	870
TV Monitor	Each	1
Camera Charged Coupling Device	Each	4
Multi-Conductor Cable 5C	L.F.	450
Multi-Conductor Cable 7C #14 AWG	L.F.	1500
Ground Wire (THHN #8 AWG)	L.F.	550
Power Supply Wire (THHN #6 AWG)	L.F.	As Required
Loop Detector Wire (THHN #14 AWG)	L.F.	2000
2-Conductor Lead-In Cable #14 AWG	L.F.	2200

(*) For Information Only

GENERAL NOTES

1. The Contractor shall be responsible for furnishing and installing the controller, cabinet, concrete base, and all other equipment necessary for the complete and satisfactory operation of the traffic signal, whether said equipment is specifically mentioned or not.
2. Lengths given are to the centerline of poles/boxes and do not include lengths for elbows and risers.
3. Signal heads, pedestrian signals, traffic signals, & etc. shall INCLUDE all brackets, hardware, & other incidentals necessary for installation.
4. See City of Wichita Standard Specifications for additional wiring notes.

SPECIAL FINISH FOR TRAFFIC SIGNAL EQUIPMENT:

The traffic signal controller cabinet, brackets, sign blank backs, signal backs and other exposed surfaces shall be shop painted with an aerosol lacquer cellulose ester to match the traffic signal pole color. The Contractor shall submit two copies of the proposed coating system to the City for approval to application.

TRAFFIC SIGNAL POLE EXTERIOR COATING:

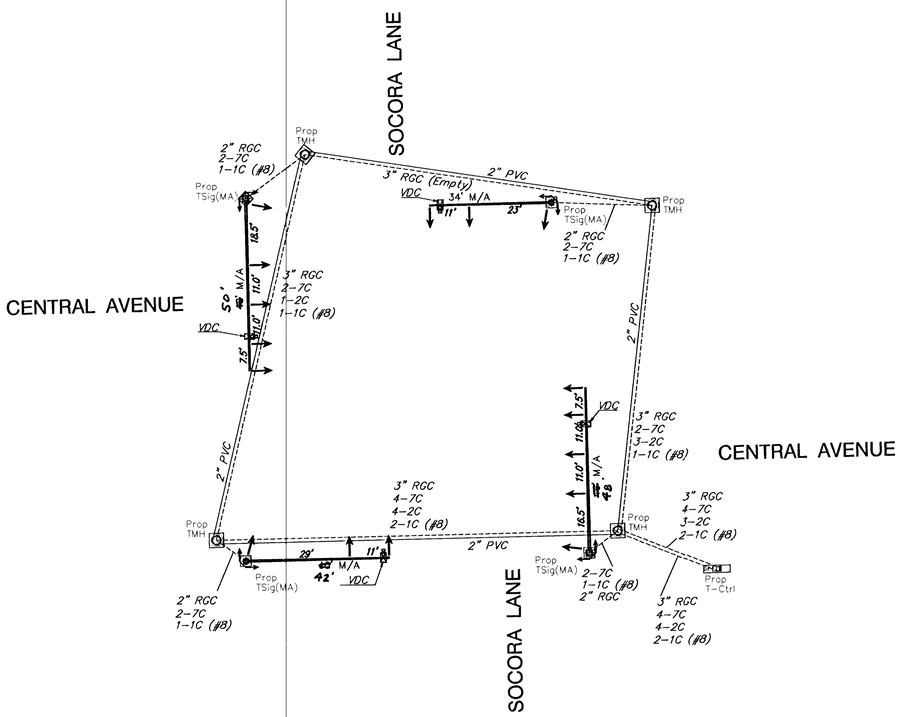
In addition to being galvanized, all exterior surfaces shall be coated with a zinc rich epoxy powder to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and partially cured in a gas fired convection oven by heating the steel substrate to a minimum of 250° Fahrenheit.

The powder primed surface shall be coated with an intermediate coat of polyester powder to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and cured by heating the steel substrate in a convection oven to a minimum of 350° Fahrenheit and a maximum of 400° Fahrenheit.

The intermediate coat shall be top coated with one coat of high-build acrylic polyurethane enamel to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and cured by heating the the steel substrate in a convection oven to a minimum of 225° Fahrenheit. The final top coating color shall be BLACK.

Type 170 Controller System to include:

1. Model 170E controller unit complete with W41KS (Latest Revisions) traffic program on 412B2 system memory module.
2. One (1) Model 332 Cabinet complete with all accessories & shall include:
   - A. One (1) Model 210ECL or 210MS Conflict Monitor with software.
   - B. Four (4) Model 430 Transfer Relays.
   - C. Two (2) Model 204 Flashing Units.
   - D. Twelve (12) Model 200 Switch Packs.
   - E. Three (3) Model 242 DC Isolators.
   - F. One (1) Surge Arrester
   - G. Twelve (12) Model 222 (C-400) 2 Channel Loop Detectors
   - H. One (1) JCB Modem



TRAFFIC SIGNAL POLES

Station, Dist, & Side	Arm Size	# of Signals	Signal Spacing	Type	JU Poles
28+74.65, 57.46' Lt.	50'	4	48-40-29-18	A, I	X
29+59.93, 54.38' Lt.	34'	2	11'	A	X
28+64.24 43.50' Rt.	42'	2	11'	A	
29+68.17, 43.50' Rt.	48'	4	46-38-27-16	A, I	

METER ADDRESS: 8129 WEST CENTRAL

PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY	
City Of Wichita			WIREPLAN	F:\\CENTRAL\TRAFFIC	
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB/TPV	STAFF		FEB 2002	NONE	99-09-E463

CAPITAL IMPROVEMENT PROJECT
CENTRAL AVENUE
TYLER to WOODCHUCK
CENTRAL AVE - SOCORA LN INTERSECTION WIRING PLAN

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211