

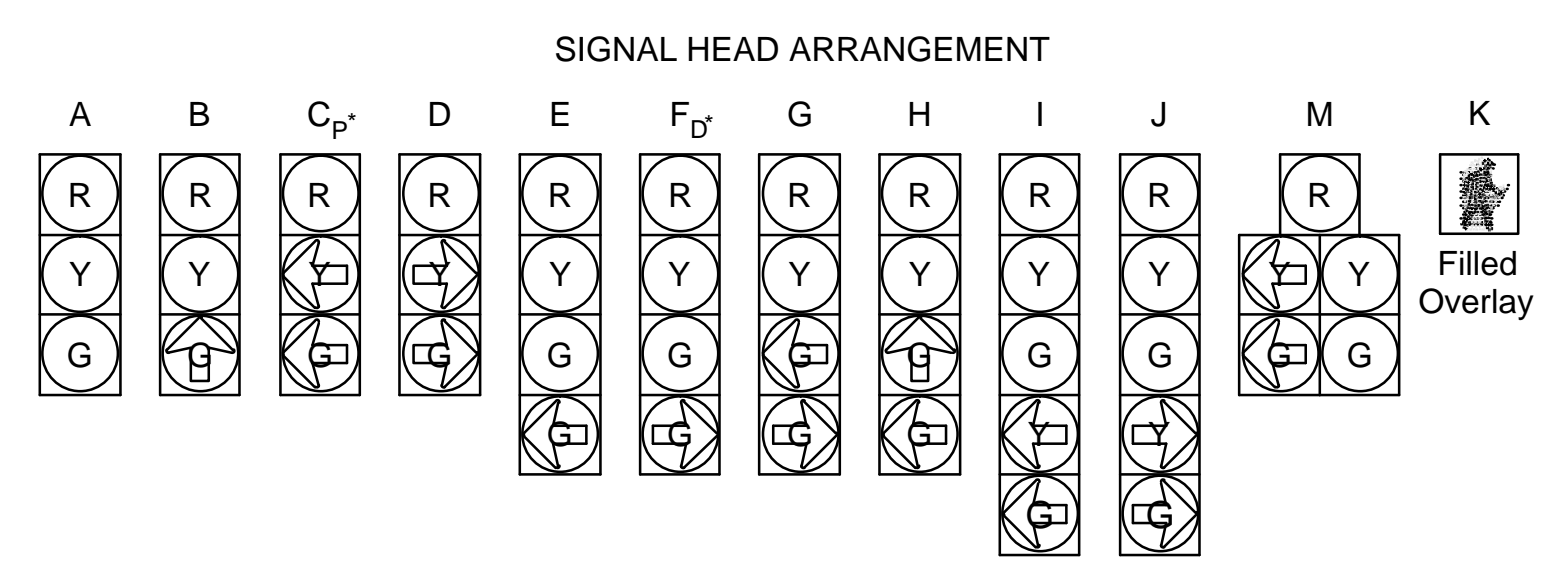
- ≠ #8AWG Equipment Ground (Green)
 - ⊙ Power Supply
 - V3 Video Power Cable
 - CX Video Coax Cable
 - ⚠ Signal Pole Reference Number
- All splices to be in pole base, no splices permitted within service box.

POLE #	TYPE ①	ARM LENGTH (FT.)	NO. OF SIGNALS ON ARM	BRACKET TYPE	X1 (FT.)	X2 (FT.)	X3 (FT.)	NO. OF SIGNALS ON POLE	BRACKET TYPE	NO. OF PUSH BUTTONS ON POLE
1	B	37	3	1	13	11	11	1	II	-
2	B	27	2	1	14	11	-	1	II	-
3	B	32	2	1	19	11	-	1	II	1
4	A	-	-	-	-	-	-	1	II	1
5	A	-	-	-	-	-	-	1	II	1

NUMBER	TYPE	QUANTITY
9	A	3
10	I	1
11	D	2
12	A	3
4a	K	1
5a	K	1
11a	A	1
TOTAL		12

- ① A-15' Pedestal (Alum.)
- B-20' Steel with Mast Arm(s)
- C-35' Steel (Joint Use) with Mast Arm(s)
- D-40' Steel with Mast Arm

LEGEND	LENGTH	QUANTITY
13th St	5500 E	5'-0" 1
Edgemoor	1300 N	5'-0" 2

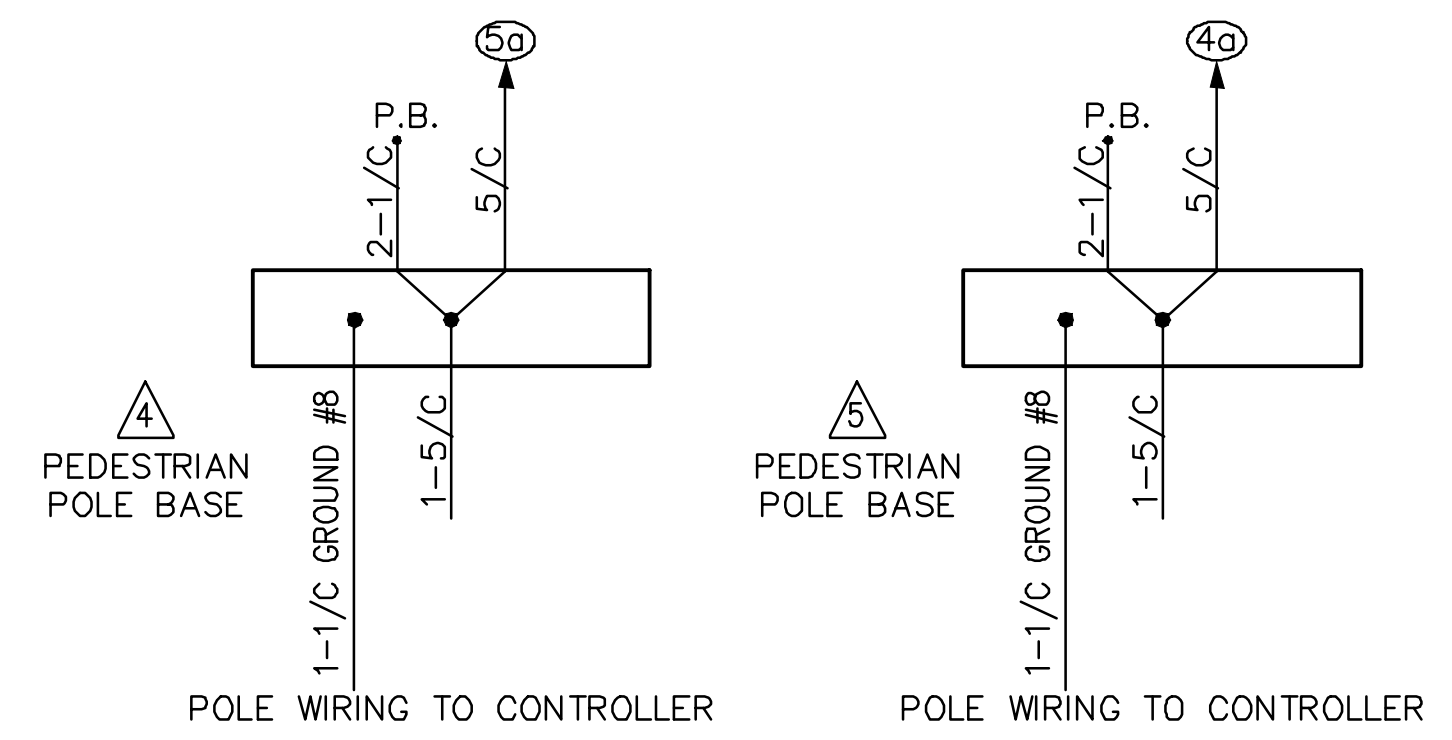
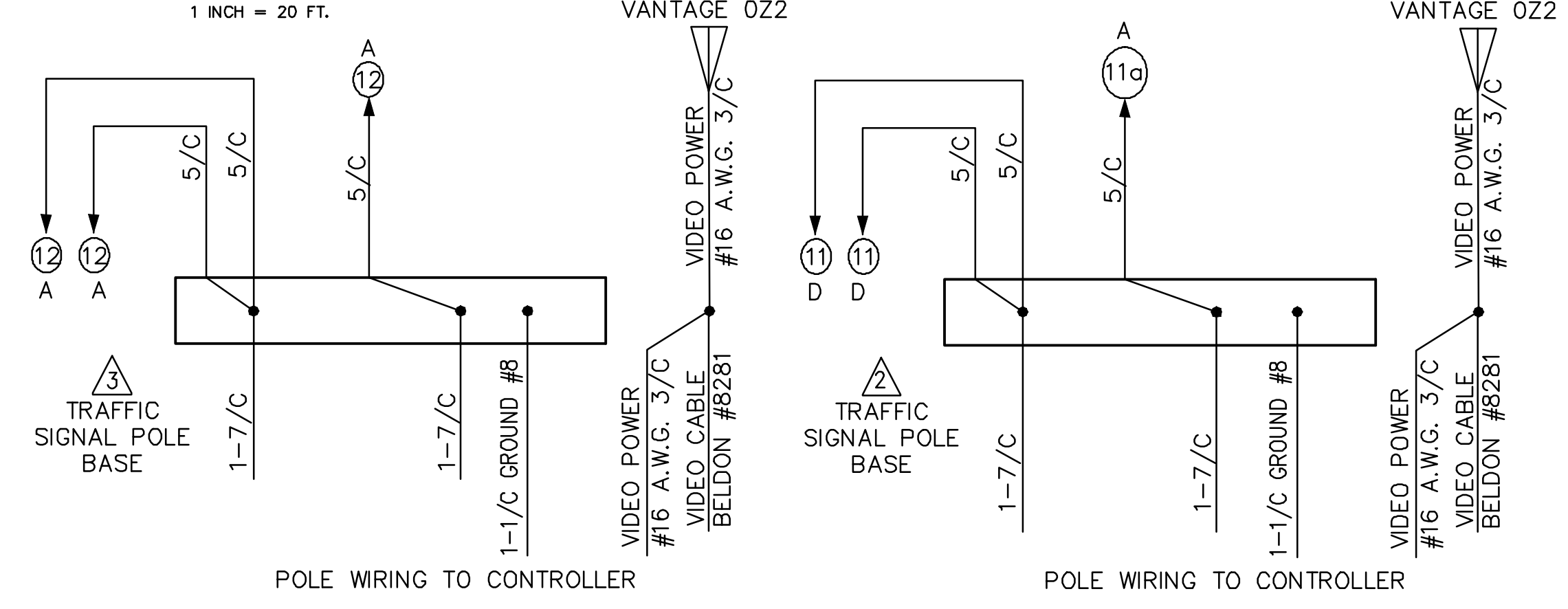
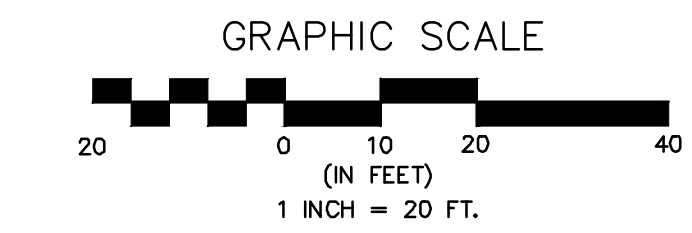
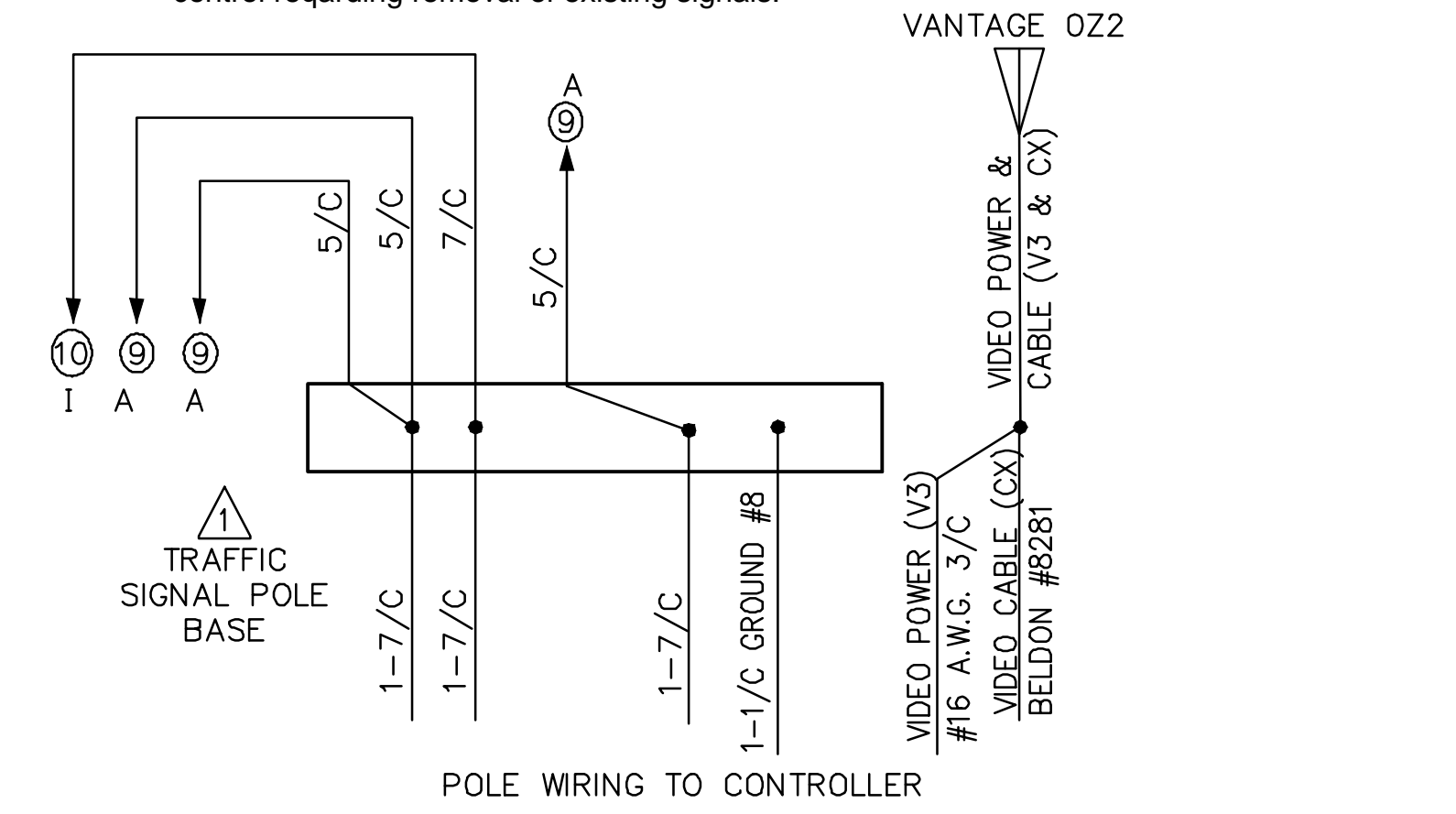


12" LED lenses - vehicular and pedestrian

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.

* Subscript "P" indicates programmed signals.
Subscript "D" indicates dual-mode green/yellow arrow section.

** Removal of existing traffic signal equipment shall include removal of foundations, service boxes, and junction boxes. See construction traffic control regarding removal of existing signals.



POLE WIRING DIAGRAMS

ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL INSTALLATION (13th St. & Edgemoor)	LUMP SUM	1
	LUMP SUM	1

Top Coat Finish for Traffic Signal Poles & Controller Cabinet
All visually exposed exterior surfaces shall be coated with a urethane or triglycidyl isocyanurate (TGIC) polyester powder to a minimum dry film thickness (DFT) of 2.0 mils. Prior to application of the top coat, the surface shall be mechanically etched and pre-heated to 450 degrees F for a minimum of one hour. The coating shall be electro-statically applied and cured at a minimum temperature of 400 degrees F. The finished color for the poles shall be black.

Special Finish for Traffic Signal Equipment
The traffic signal, mounting brackets, signal head backs, sign backs, meter box, disconnect box, and miscellaneous hardware 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 Engineer for approval prior to application. In addition to the requirements stipulated in the Standard Specifications, banding material shall be coated with ethylene-vinyl-alcohol (EVA) copolymer. The color shall be black.

**13TH STREET/EDGEMOOR INTERSECTION
BILL OF MATERIALS (FOR INFORMATION ONLY)**

ITEM	QUANT.	UNIT
PAD MOUNTED CABINET	2 *	EACH
CONTROLLER 2070	CITY	EACH
CONFLICT MONITOR	CITY	EACH
SURGE ARRESTOR - A.C. SERVICE	-	EACH
POLE MOUNTED CABINET	-	EACH
TRAFFIC SIGNAL HEAD	12	EACH
SIGNAL HEAD MOUNTING BRACKET	12	EACH
BACK PLATE 5" 3 SECTION	6	EACH
BACK PLATE 5" 5 SECTION	1	EACH
PED. INDIC. LED (16"X18" COMB. W/ COUNTDOWN)	2	EACH
L.E.D. TRAFFIC SIGNAL LENS	34	EACH
PEDESTRIAN PUSHBUTTON & SIGN	2	EACH
TRAFFIC SIGNAL POLE (20')	3	EACH
TRAFFIC SIGNAL PEDESTAL	3	EACH
TERMINAL BLOCK	6	EACH
SERVICE BOX	4	EACH
CIRCUIT BREAKER, TRAFFIC SIGNAL	1	EACH
GROUND ROD & CLAMP	6	EACH
SERVICE WIRE NO. 6 AWG 1/C	-	LIN FT
GROUND WIRE NO. 8 AWG 1/C	634	LIN FT
MULTI-CONDUCTOR CABLE NO. 14 AWG 1/C	20	LIN FT
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/C	652	LIN FT
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C	753	LIN FT
CONDUIT ELBOW 90° 3"	AS REQ'D	EACH
CONDUIT 3" RGC	410	LIN FT
CONDUIT 2" RGC	7	LIN FT
CONCRETE FOOTING - TRAFFIC SIGNAL POLE	3	EACH
CONCRETE FOOTING - PEDESTRIAN PEDESTAL	2	EACH
CONCRETE CONTROLLER PAD	1	EACH
VIDEO DETECTION UNIT (VANTAGE EDGE MODULE OR APPROVED EQUAL)	6 *	EACH
VID. DET. CAM. (VANTAGE OZ2), MOUNTING HARDWARE (OR APPROVED EQUAL)	6 *	EACH
VIDEO CABLE 75 OHM COAXIAL (BELDON #8281 OR APPROVED EQUAL)	423	LIN FT
VIDEO POWER CABLE #16 A.W.G. 3/C	423	LIN FT
OVERHEAD STREET NAME SIGN	3	EACH
R10-10 SIGN (24" X 30")	-	EACH
R10-12 SIGN (24" X 30")	1	EACH

QUANTITIES FOR INFORMATION ONLY
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 the complete operation of the traffic signal system whether specifically mentioned or not.

NOTE: City of Wichita will provide controller; conflict monitor.

* The three spare video detection cameras and video detection units and spare cabinet (full and complete) shall be delivered to the City of Wichita's Traffic Signal Supervisor at the Central Maintenance Facility, 1801 South McLean Blvd.

13TH & EDGEMOOR
 SIGNAL PLAN
 CITY OF WICHITA, KANSAS
 GARY JANZEN, P.E. - CITY ENGINEER

POE & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 544 West Douglas Avenue | Wichita, KS 67203
 Phone: 316.665.4114 | Fax: 316.665.4444

PROFESSIONAL ENGINEER
 18137
 2/11/2015

FINAL
 Engineer: J. DICKMAN
 Designer: J. UNRUH
 Dwg. P.: 102091-102091-Base
 Job No.: 87N-0582-01
 Date: 8/31/2015