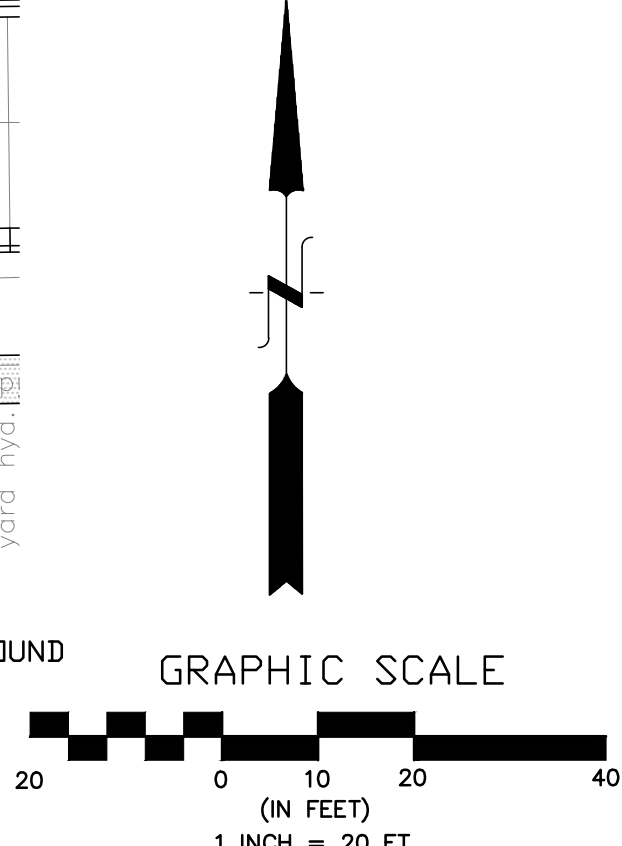


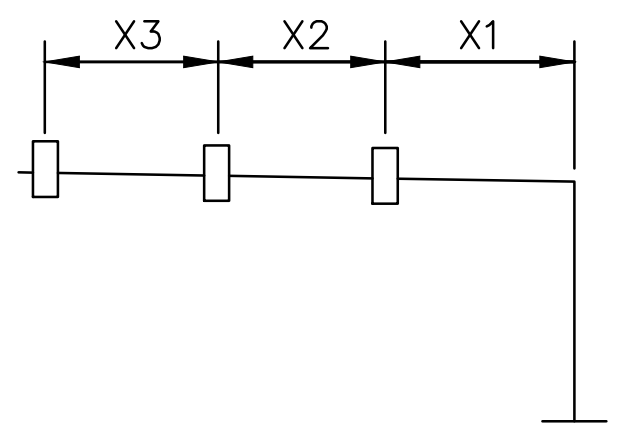
- ≡ #8AWG Equipment Ground (Green)
  - ⊕ Power Supply
  - V3 Video Power Cable
  - CX Video Coax Cable
  - ⚠ Signal Pole Reference Number
- All splices to be in pole base, no splices permitted within service box.



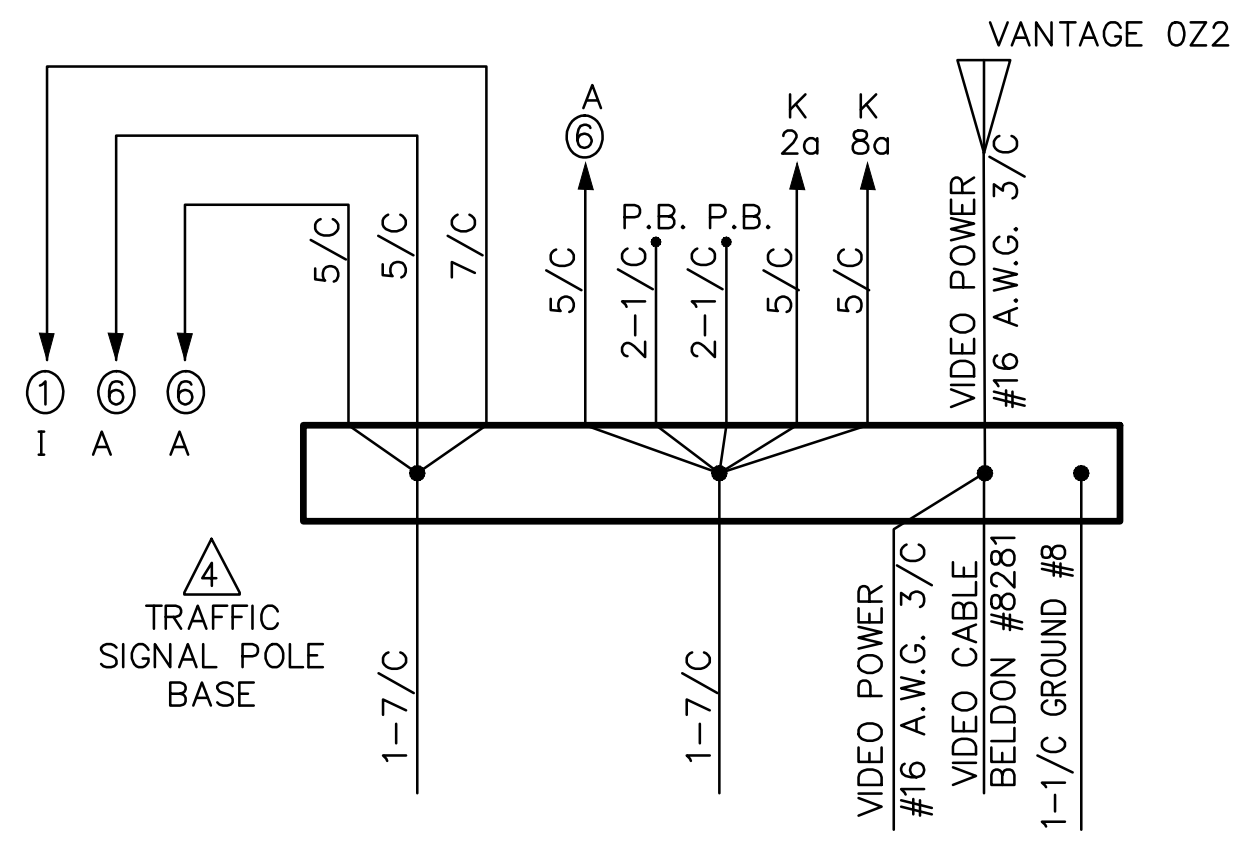
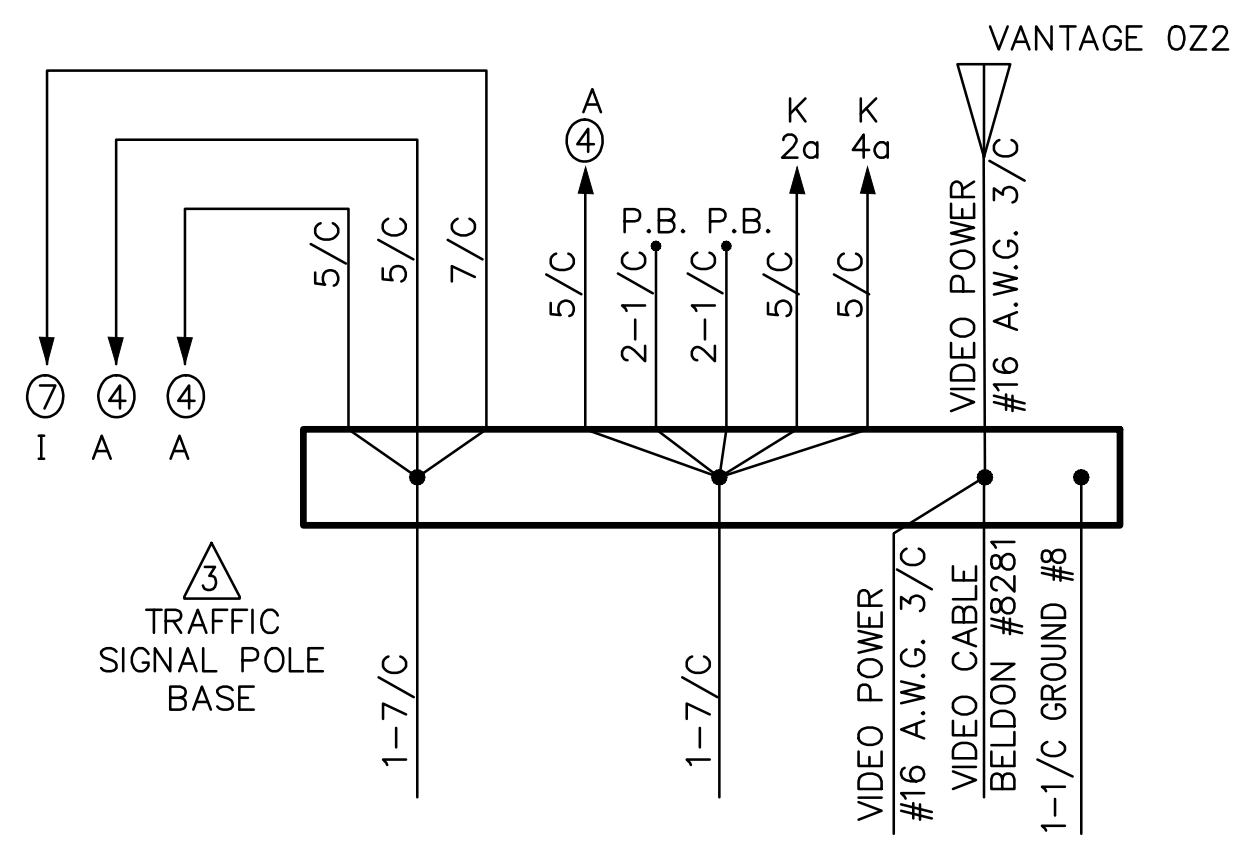
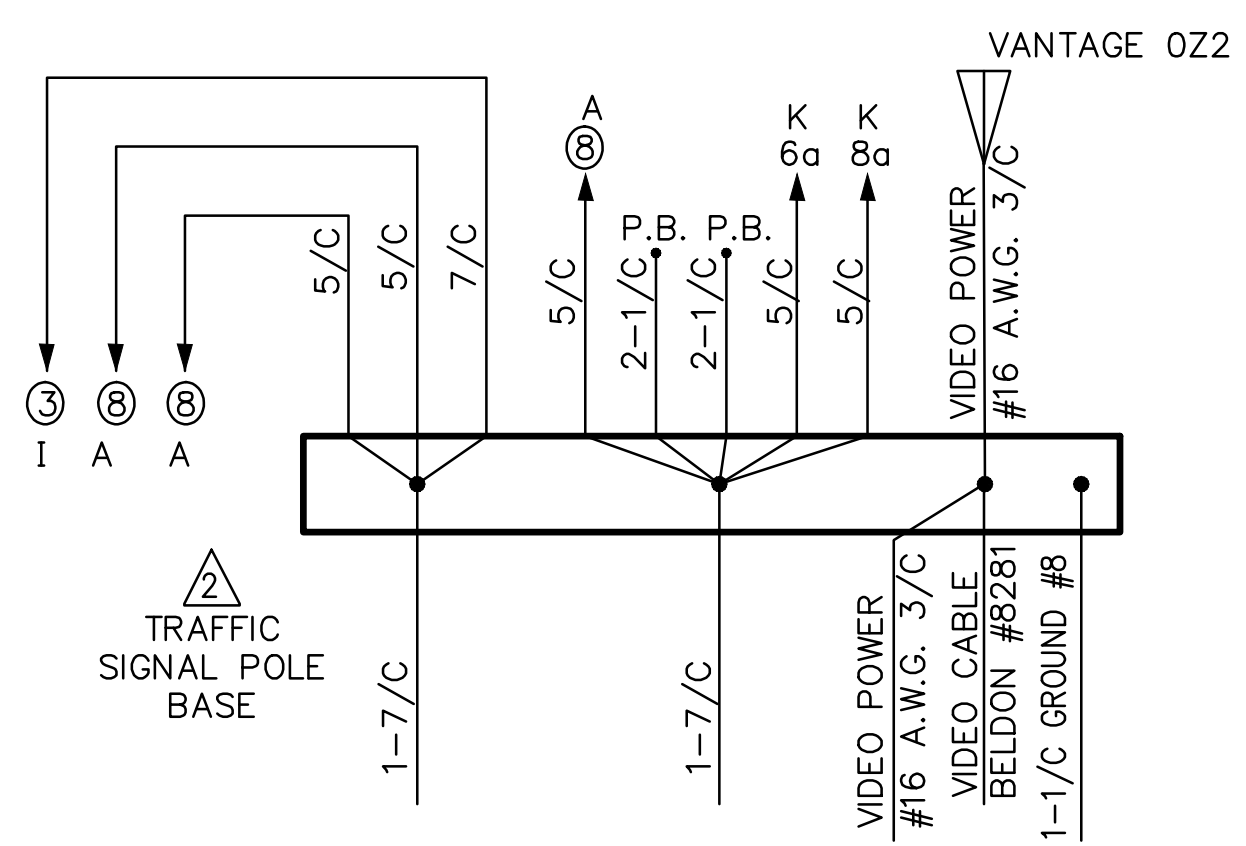
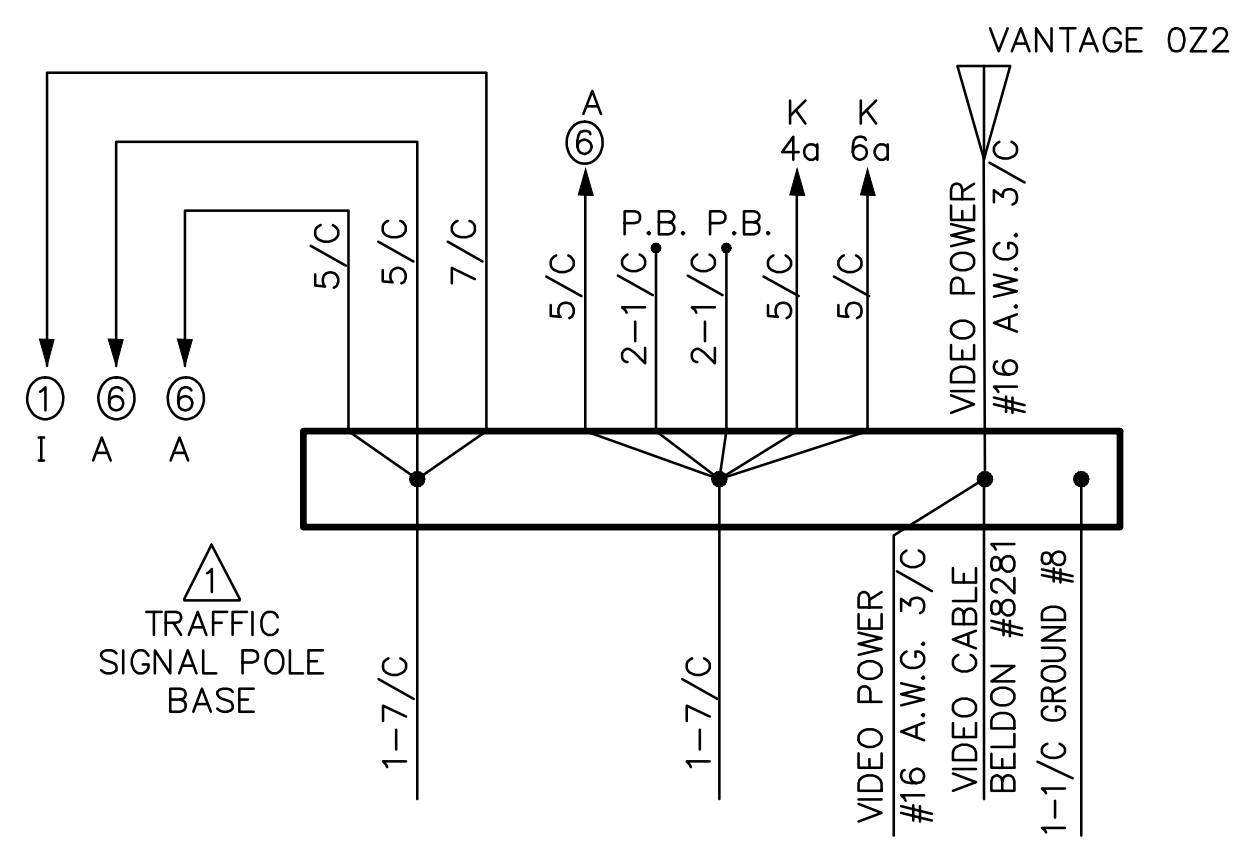
| POLE NO. | TYPE <sup>①</sup> | ARM LENGTH | NO. OF SIGNALS ON ARM | BRACKET TYPE | X1 | X2 | X3 | NO. OF SIGNALS ON POLE | BRACKET TYPE | NO. OF PUSH BUTTONS ON POLE | REMARKS |
|----------|-------------------|------------|-----------------------|--------------|----|----|----|------------------------|--------------|-----------------------------|---------|
| 1        | B                 | 49         | 3                     | I            | 28 | 11 | 8  | 3                      | II & III     | 2                           |         |
| 2        | B                 | 49         | 3                     | I            | 28 | 11 | 8  | 3                      | II & III     | 2                           |         |
| 3        | B                 | 49         | 3                     | I            | 28 | 11 | 8  | 3                      | II & III     | 2                           |         |
| 4        | B                 | 49         | 3                     | I            | 28 | 11 | 8  | 3                      | II & III     | 2                           |         |

- 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

| NUMBER | TYPE | QUANTITY |
|--------|------|----------|
| 1      | I    | 1        |
| 2      | A    | 3        |
| 2A     | K    | 2        |
| 3      | I    | 1        |
| 4      | A    | 3        |
| 4A     | K    | 2        |
| 5      | I    | 1        |
| 6      | A    | 3        |
| 6A     | K    | 2        |
| 7      | I    | 1        |
| 8      | A    | 3        |
| 8A     | K    | 2        |
| TOTAL  |      | 24       |



| ITEM  | UNIT     | QUANTITY |
|---|----------|----------|
| TRAFFIC SIGNAL INSTALLATION (Seneca St. & 31st St.) | LUMP SUM | LUMP SUM |
|   | 1        | 1        |



**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.

**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.

**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.

The Contractor shall secure, furnish, and install traffic signal poles that have been pre-ordered for this project from Valmont. The Contractor shall contact Gades Sales Co. @ 943-1219 % Graham Montgomery for additional information regarding the cost and delivery date for poles prior to submitting his bid. All costs associated with the procurement and installation of traffic signal poles shall be considered subsidiary to "Traffic Signal Installation".

**TRAFFIC SIGNAL PLAN  
WIRING PLAN**

Revised All Mast Arm Lengths in Summary Table  
 No. 10-14-11  
 Date 10-14-11  
 By PAF  
 Approved  
 SENECA STREET  
 1-235 TO 31ST STREET  
 CITY OF WICHITA, KANSAS  
 TRAFFIC SIGNAL WIRING PLAN  
 31ST STREET SOUTH & SENECA STREET  
 POE & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 5940 E. Central, Suite 200 Wichita, KS  
 67208-4242  
 Phone 316/685-4114 FAX 316/685-4444  
 P. FERGUSON  
 J. UNRUH  
 Designer  
 KDOT Job No.: 87 N-0243-01  
 Job No.: 1794  
 JANUARY 2010  
 Sheet 84 of 169