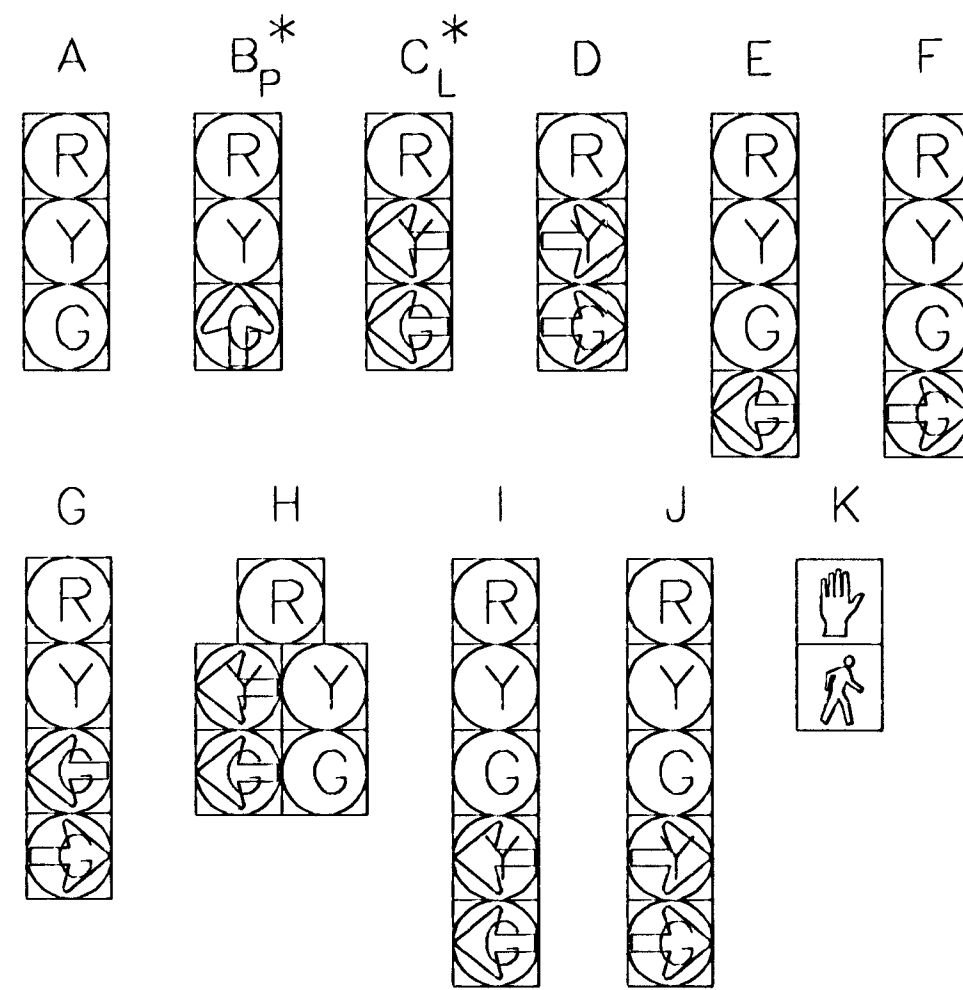


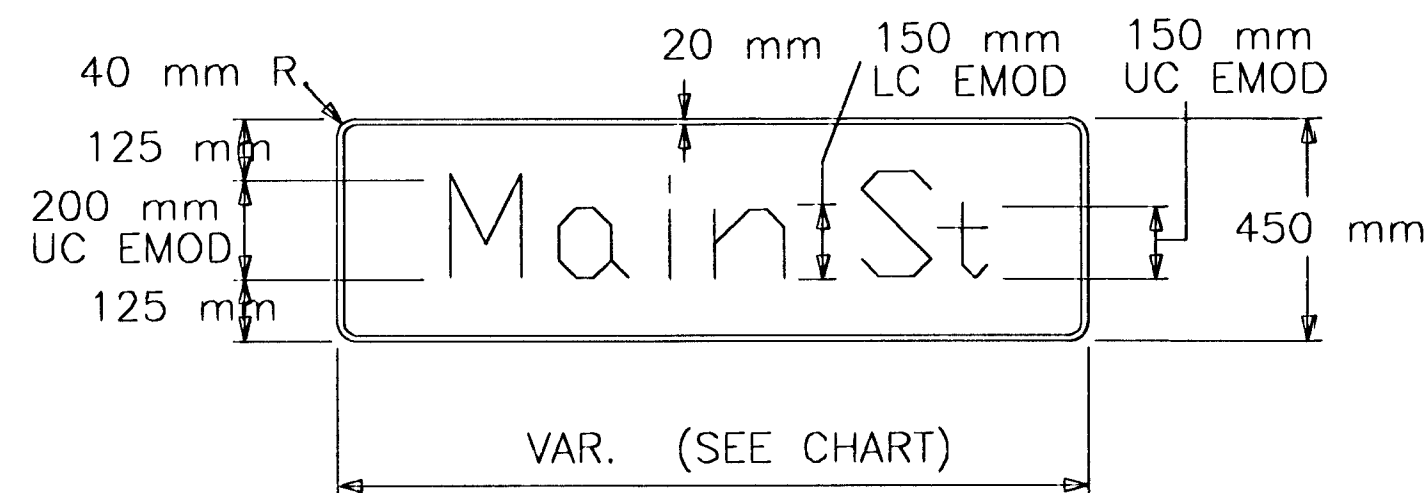
| CHART A SIGNAL SUMMARY     |                            |                            |          |
|----------------------------|----------------------------|----------------------------|----------|
| SIGNAL FACE<br>ARRANGEMENT | NO. SECTIONS<br>(PER FACE) | SIGNAL<br>MOUNTING<br>TYPE | QUANTITY |
| A                          | 3                          | MAST ARM W/BACKPLATE       | 6        |
| I                          | 5                          | MAST ARM W/BACKPLATE       | 1        |
|                            |                            |                            |          |
|                            |                            |                            |          |
| A                          | 3                          | SIDE-OF-POLE               | 3        |
|                            |                            |                            |          |
| K                          | 2                          | SIDE-OF-POLE               | 4        |



\*\*LED RED INDICATIONS ARE TO BE USED.

[illegible]

| CHART C OVERHEAD STREET NAME SIGNS |         |        |          |
|------------------------------------|---------|--------|----------|
| SIGN                               | LEGEND  | LENGTH | QUANTITY |
| B                                  | Rock Rd | 1.76m  | 1        |
| C                                  | 32nd St | 1.76m  | 2        |
|                                    |         |        |          |
|                                    |         |        |          |



NOTE :

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 COMPLETE OPERATION OF THE TRAFFIC SIGNAL SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

| BILL OF MATERIALS                              |          |        |       |           |      |
|------------------------------------------------|----------|--------|-------|-----------|------|
| ITEM                                           | QUANT.   |        | UNIT  | SPEC. NO. | NOTE |
|                                                | NEW      | REUSED |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
| BUS INTERFACE LIST                             | —        |        | EACH  |           |      |
| DETECTOR POWER SUPPLY                          | —        |        | EACH  |           |      |
| TRAFFIC SIGNAL HEAD                            | CHART A  |        | EACH  |           |      |
| SIGNAL HEAD MOUNTING BRACKET                   | CHART A  |        | EACH  |           |      |
| BACK PLATE                                     | CHART A  |        | EACH  |           |      |
| VEHICLE TRAFFIC SIGNAL LAMP                    | 20       |        | EACH  |           |      |
| PEDESTRIAN TRAFFIC SIGNAL LAMP                 | 8        |        | EACH  |           |      |
| RED LED TRAFFIC SIGNAL LAMP                    | 10       |        | EACH  |           |      |
| PEDESTRIAN PUSHBUTTON & SIGN                   | 4        |        | EACH  |           |      |
|                                                |          |        |       |           |      |
| TRAFFIC SIGNAL POLE                            | CHART B  |        | EACH  |           |      |
| TRAFFIC SIGNAL PEDESTAL ALUMINUM               | 1        |        | EACH  |           |      |
| TERMINAL BLOCK                                 | —        |        | EACH  |           |      |
|                                                |          |        |       |           |      |
| JUNCTION BOX                                   | 5        |        | EACH  |           |      |
| SERVICE BOX                                    | 4        |        | EACH  |           |      |
|                                                |          |        |       |           |      |
| LUMINAIRE                                      | —        |        | EACH  |           |      |
| LUMINAIRE LAMP            WATT                 | —        |        | EACH  |           |      |
| PHOTOCELL                                      | —        |        | EACH  |           |      |
| UNFUSED STREET LIGHT CONNECTOR KIT             | —        |        | EACH  |           |      |
| FUSED STREET LIGHT CONNECTOR KIT               | —        |        | EACH  |           |      |
| OVERHEAD STREET NAME SIGN                      | CHART C  |        | EACH  |           |      |
| R10-10 SIGN (600 mm X 750 mm)                  |          |        | EACH  |           |      |
| R10-12 SIGN (600 mm X 750 mm)                  | 1        |        | EACH  |           |      |
| BLANK OUT SIGN                                 | —        |        | EACH  |           |      |
| ENTRANCE HEAD                                  | 1        |        | EACH  |           |      |
| SERVICE ENCLOSURE,    70 AMP.                  | 1        |        | EACH  |           |      |
| CIRCUIT BREAKER, TRAFFIC SIGNAL,    40 AMP.    | 1        |        | EACH  |           |      |
| CIRCUIT BREAKER, LUMINAIRE,        AMP.        | —        |        | EACH  |           |      |
|                                                |          |        |       |           |      |
| GROUND ROD & CLAMP                             | 6        |        | EACH  |           |      |
|                                                |          |        |       |           |      |
| SERVICE WIRE NO. 6 AWG 1/C                     | 60       |        | METER |           |      |
| LIGHTING DISTRIBUTION WIRE NO. 8 AWG 1/C       | —        |        | METER |           |      |
| POLE & BRACKET WIRE NO. 10 AWG 1/C             | —        |        | METER |           |      |
| GROUND WIRE NO. 6 AWG 1/C                      | 30       |        | METER |           |      |
| GROUND WIRE NO. 8 AWG 1/C                      | 100      |        |       |           |      |
| MULTI-CONDUCTOR CABLE NO. 14 AWG    5/C        | 110      |        | METER |           |      |
| MULTI-CONDUCTOR CABLE NO. 14 AWG    7/C        | 334.6    |        | METER |           |      |
| MULTI-CONDUCTOR CABLE NO. 14 AWG    2/C        | —        |        | METER |           |      |
| SHIELDED DETECTOR LEAD-IN CABLE NO. 18 AWG 4/C |          |        |       |           |      |
| SHIELDED DETECTOR LEAD-IN CABLE NO. 14 AWG 2/C | 645      |        | METER |           |      |
| DETECTOR LOOP WIRE NO. 14 AWG 1/C              | 980      |        | METER |           |      |
| LOOP SEALANT                                   | AS REQ'D |        |       |           |      |
| PRE-FORMED LOOP                                |          |        | EACH  |           |      |
|                                                |          |        |       |           |      |
| CONDUIT, 19 mm & FITTINGS                      | 65       |        | METER |           |      |
| CONDUIT, 32 mm & FITTINGS                      | 75       |        | METER |           |      |
| CONDUIT, 50 mm & FITTINGS    (PVC)             | 5        |        | METER |           |      |
| CONDUIT, 75 mm & FITTINGS    (PVC)             | 125      |        | METER |           |      |
| CONDUIT, 100 mm & FITTINGS   (PVC)             |          |        | METER |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |
|                                                |          |        |       |           |      |

| FHWA<br>REGION<br>NO. | STATE  | PROJECT NO.  | YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|-----------------------|--------|--------------|------|--------------|-----------------|
| 7                     | KANSAS | 87 N-0198-01 | 2001 | 28           | 82              |

FED. AID NO. - CMQ-N019(801)

| BID ITEM TABLE                 |          |        |
|--------------------------------|----------|--------|
|                                | LUMP SUM |        |
| ITEM                           | UNIT     | QUANT. |
| TRAFFIC SIGNAL<br>INSTALLATION | LS       | LS     |
|                                |          |        |
|                                |          |        |
|                                |          |        |

NOTE:

POLE/MAST ARM CONNECTION SHALL BE ALTERNATIVE FLANGE  
PLATE DESIGN

\*CONTROLLER UNIT SHALL INCLUDE:

•MODEL 170 E CONTROLLER UNIT COMPLETE WITH W4IKS  
(VERSION 56 ON 4128 MEMORY MODULE; 400 MODEM

•ONE MODEL 332 CABINET (MEETING CITY OF WICHITA SPECIFICATIONS) COMPLETE WITH ALL ACCESORIES INCLUDING:

- 1-MODEL 210PC CONFLICT MONITOR (ECC OR MS)
- 3-MODEL 242 TWO CHANNEL ISOLATORS
- 4-MODEL 430 TRANSFER RELAYS
- 2-MODEL 204 FLASHER UNITS
- 10-MODEL 200 SWITCH PACKS
- 12-CB22 TWO CHANNEL LOOP DETECTOR UNITS

ROCK ROAD & 32nd STREET  
-QUANTITIES FOR INFORMATION ONLY-

|     |      |  |    |       |
|-----|------|--|----|-------|
| 3   |      |  |    |       |
| 2   |      |  |    |       |
| 1   |      |  |    |       |
| NO. | DATE |  | BY | APP'D |

KANSAS DEPARTMENT OF TRANSPORTATION

NEMA SYSTEM

TRAFFIC SIGNAL QUANTITIES SHEET

|                        |                   |                           |           |
|------------------------|-------------------|---------------------------|-----------|
| TE-130A-SI             |                   | 04/28/98                  |           |
| FIWA APPROVAL 05/18/98 |                   | APP'D Linda G. Voss, P.E. |           |
| DESIGNED - J.F.F.      | DETAILED J.F.F.   | QUANTITIES                | TRACED    |
| DESIGN CK. D.A.C.      | DETAIL CK. D.A.C. | QUAN. CK.                 | TRACE CK. |