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| STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 472-94071 | 2005 | CL13 | |

Alternate # 7

ELECTRICAL MATERIAL:

COLD CATHODE LUMINAIRE,
 THE FIXTURE BODY EXTRUSION SHALL BE 3 FT IN LENGTH AND HAVE TWO PARTS A TOP AND BOTTOM MADE OF ALUMINUM. THE BOTTOM EXTRUSION CAN BE USED AS A WIRE WAY. THE LAMP AND THE TRANSFORMER SHALL BE MOUNTED TO THE EXTRUSION. THE LAMP SHALL BE 25MM DIAMETER. LEAD GLASS HALOPHOSPHOR OR TRIPHOSPHOR COATED. THE LAMP COLOR SHALL BE WHITE. THE ELECTRODES SHALL BE RATED FOR 200MA. THE TRANSFORMER SHALL BE A DIMMABLE SOLID STATE TYPE AND MOUNTED INSIDE THE TOP EXTRUSION. THE INPUT VOLTAGE SHALL BE 120V AND THE OUTPUT VOLTAGE SHALL BE 90 VOLTS AND RATED AT 120MA. THE SECONDARY WIRE SHALL BE LISTED G705 OR GREATER AND RATED FOR 1205C. THE TRANSFORMER SHALL BE HIGH POWER FACTOR EFFICIENCY. THE FIXTURE SHALL HAVE A PROTECTIVE LENS MADE OF UV PROTECTED ACRYLIC AND WILL SNAP ONTO THE SIDES OF THE EXTRUSION. THE CONTRACTOR SHALL SUBMIT MATERIAL SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING FIXTURES.

| SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES | | EA | SE | DU | CL | AS | DU | CL | AS | DU | CL | AS | DU | CL | AS | TOTAL QUANTITY |
|--|------|----------|----|----|----|----|----|----|----|----|----|----|----|----------|----|----------------|
| ITEM | UNIT | QUANTITY | | | | | | | | | | | | QUANTITY | | |
| ENCLOSURE | EA. | 0 | | | | | | | | | | | | | | 0 |
| PHOTO-ELECTRIC CONTROL | EA. | 0 | | | | | | | | | | | | | | 0 |
| JUNCTION BOX (SIZE AS PER PLAN) | EA. | 41 | | | | | | | | | | | | | | 41 |
| GROUND MOUNTED JUNCTION BOX (11 X 18 X 12) | EA. | 0 | | | | | | | | | | | | | | 0 |
| CABLE CONNECTORS | EA. | 0 | | | | | | | | | | | | | | 0 |
| 600 VOLT 1/C SECONDARY CABLE | LF. | 0 | | | | | | | | | | | | | | 0 |
| 600 VOLT 1/C SECONDARY CABLE | LF. | 1110 | | | | | | | | | | | | | | 1110 |
| 600 VOLT 1/C SECONDARY CABLE | LF. | 185 | | | | | | | | | | | | | | 185 |
| 600 VOLT 1/C SECONDARY CABLE | LF. | 0 | | | | | | | | | | | | | | 0 |
| GROUNDWIRE, *8 A.W.G. | LF. | 0 | | | | | | | | | | | | | | 0 |
| GROUNDWIRE, *8 A.W.G. | LF. | 603 | | | | | | | | | | | | | | 603 |
| GROUND RODS WITH CLAMPS - 3/4" X 10' | EA. | 0 | | | | | | | | | | | | | | 0 |
| 1" METALLIC CONDUIT | LF. | 336 | | | | | | | | | | | | | | 336 |
| 1 1/2" METALLIC CONDUIT | LF. | 212 | | | | | | | | | | | | | | 212 |
| 2" METALLIC CONDUIT | LF. | 0 | | | | | | | | | | | | | | 0 |
| 3" METALLIC CONDUIT | LF. | 0 | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| WALL WASHER LUMINAIRE | EA. | 0 | | | | | | | | | | | | | | 0 |
| WALL MOUNTED UNDERPASS LUMINAIRE | EA. | 0 | | | | | | | | | | | | | | 0 |
| HORIZONTAL MOUNTED UNDERPASS LUMINAIRE | EA. | 0 | | | | | | | | | | | | | | 0 |
| BOLLARD LUMINAIRE | EA. | 0 | | | | | | | | | | | | | | 0 |
| COLD CATHOD LUMINAIRE | EA. | 84 | | | | | | | | | | | | | | 84 |

ALL QUANTITIES ARE ESTIMATES AND FOR INFORMATION ONLY

BID NOTES:

- COLD CATHODE LIGHTING SYSTEM ALTERNATE 7 - THIS ALTERNATE SHALL INCLUDE THE INSTALLATION OF THE COLD CATHODE LUMINAIRE, JUNCTION BOXES, CABLE CONNECTORS, SPLICES, CONDUIT, WIRE AND ALL OTHER MATERIAL REQUIRED FOR A COMPLETE WORKING SYSTEM AT THE DOUGLAS AVE. BRIDGE PER THE PLANS.

NOTE:

ALL OF THESE QUANTITIES ARE ADDITIONS OR SUBTRACTIONS FROM THE BASE BID QUANTITIES. NEGATIVE QUANTITIES ARE DENOTED BY NUMBER SURROUNDED BY PARENTHESIS (XX). NEGATIVE QUANTITIES ARE SUBTRACTIONS FROM THE BASE BID QUANTITIES. ALL OTHER QUANTITIES ARE ADDITIONS. THE EXTENSION OF THE NEGATIVE QUANTITIES ON THE OFFICIAL BID TAB WILL REDUCE THE OVERALL COST OF THE ALTERNATE. THIS PROJECT WILL BE AWARDED TO THE CONTRACTOR WITH THE LOWEST AND BEST TOTAL BASE BID AMOUNT.

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|------------------------------|--|------|----------|
| B I D I T E M S | | UNIT | QUANTITY |
| ITEM | | | |
| COLD CATHODE LIGHTING SYSTEM | | L.S. | 1 |

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

KANSAS DEPARTMENT OF TRANSPORTATION
 ALTERNATE 7
 QUANTITIES

| | | | | | | | |
|--------|----------|----|------|----------|-------|---------------|---------|
| DESIGN | DESIGNED | DC | DATE | 08/01/93 | APP'D | LINDA G. VOSS | 4/19/93 |
| DESIGN | DESIGNED | DC | DATE | 08/01/93 | APP'D | LINDA G. VOSS | 4/19/93 |
| DESIGN | DESIGNED | DC | DATE | 08/01/93 | APP'D | LINDA G. VOSS | 4/19/93 |
| DESIGN | DESIGNED | DC | DATE | 08/01/93 | APP'D | LINDA G. VOSS | 4/19/93 |