

**ADDENDUM NO. 1  
CITY OF ARNOLD, MISSOURI**

**MICHIGAN AVENUE RECONSTRUCTION  
STP-5403(647)**

**October 9, 2014**

**City of Arnold  
2912 Arnold Tenbrook Rd.  
Arnold, MO 63010  
(636) 282-6650**

This Addendum shall become part of the construction plans, specifications, and contract documents for the contract noted above. It shall be attached within the cover of the Contract Documents and acknowledgment of its receipt shall be noted in the space provided in the Proposal.

**I. BIDDING CLARIFICATION:**

Contractor shall construct the proposed integral curb monolithically to the pavement. No doweled on curb or curb and gutter shall be used.

**II. PLANS:**

Lighting Sheet 5 of 6:

The GFI outlet has been relocated to the top of the decorative lighting pole.

Lighting Sheet 6 of 6:

The bid item "2c#12 Type GFI Distribution Cable" has been changed to "2c#10 Type GFI Distribution Cable."

The bid item "1c#12 Type THHN/THWN Pole & Bracket Cable (GFI)" has been added to the lighting quantity table, with quantity added for the GFI outlet relocation.

**II. SPECIFICATIONS:**

Bid Form:

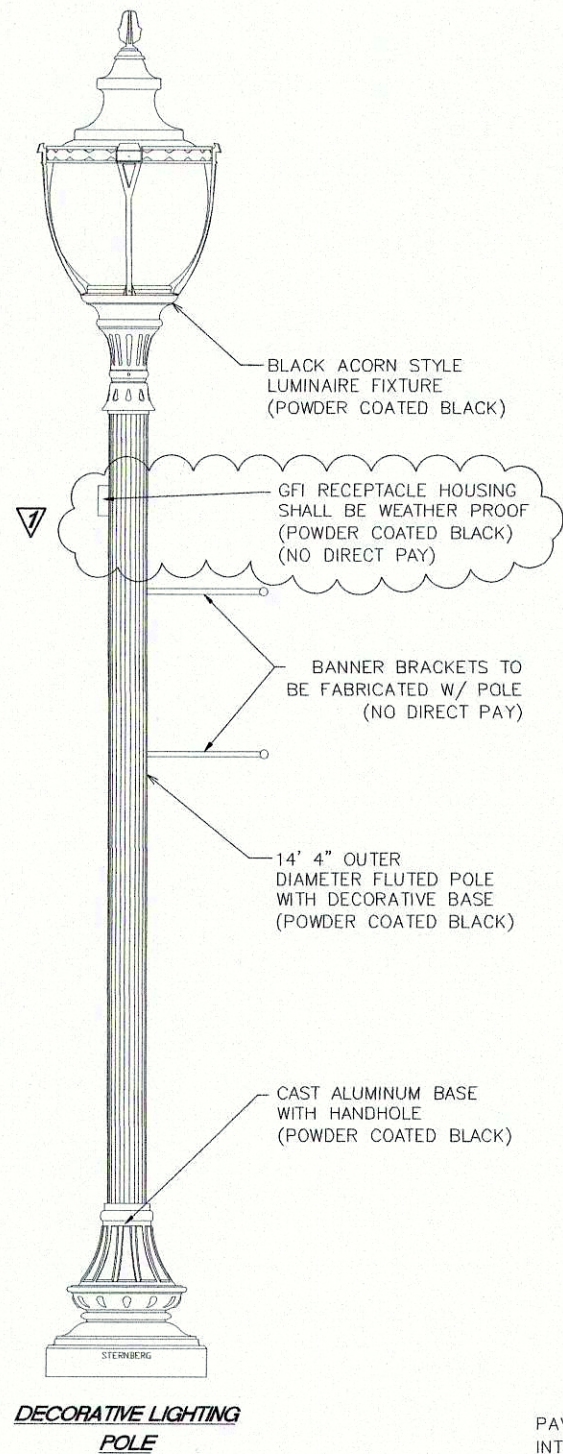
The bid item "2c#12 Type GFI Distribution Cable" has been changed to "2c#10 Type GFI Distribution Cable."

The bid item "1c#12 Type THHN/THWN Pole & Bracket Cable (GFI)" has been added to the lighting quantity table, with quantity added for the GFI outlet relocation.

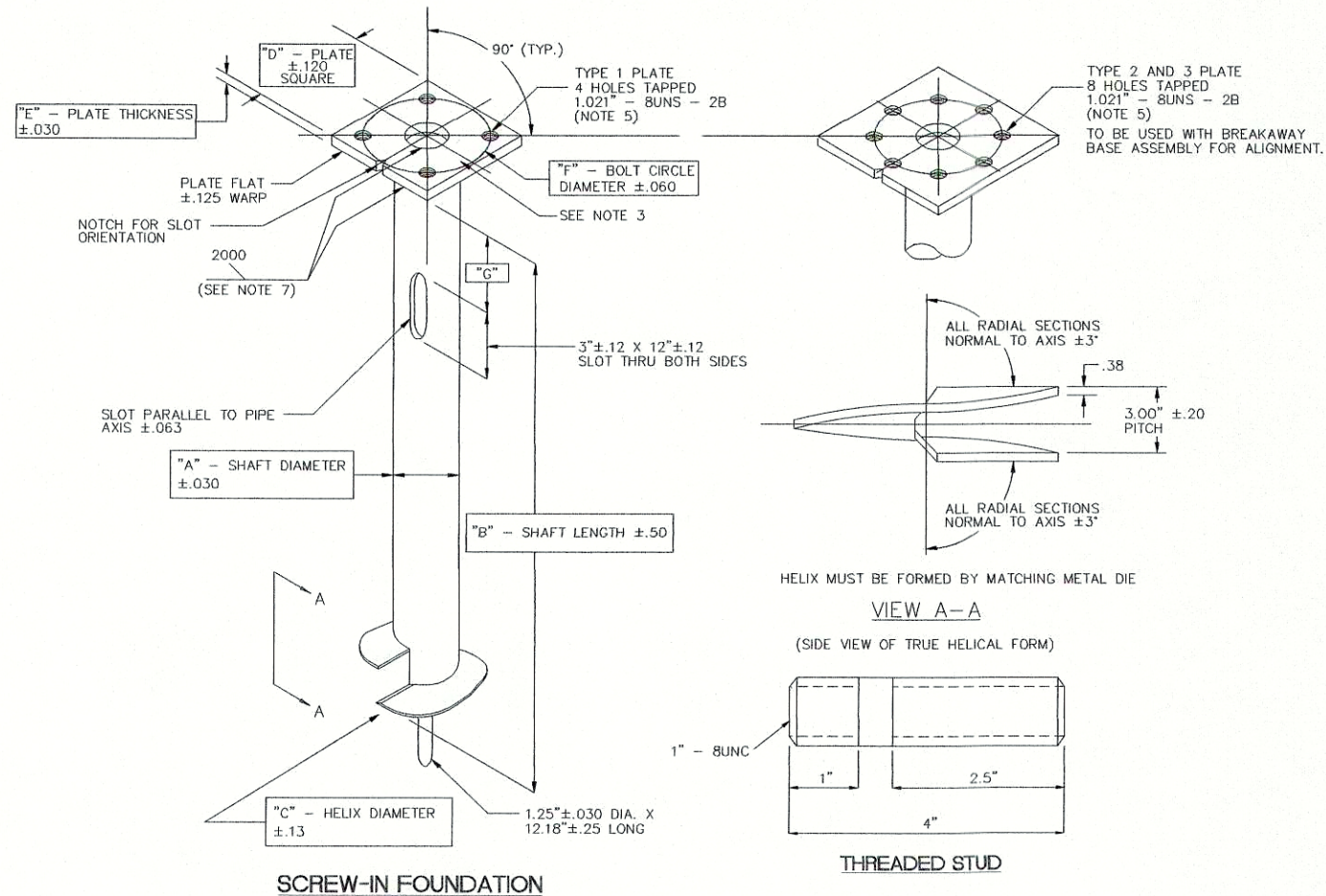
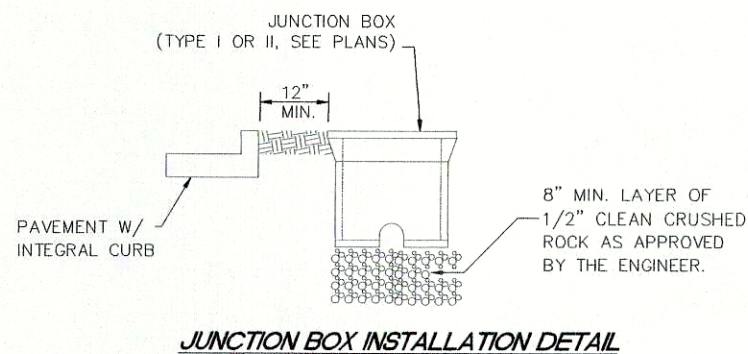
All bidders must acknowledge receipt of this Addendum in the space provided on the Notice To Contractors, paragraph 13. Failure to acknowledge receipt of an Addendum may be cause for rejection of the bid.

**END OF ADDENDUM NO. 1**

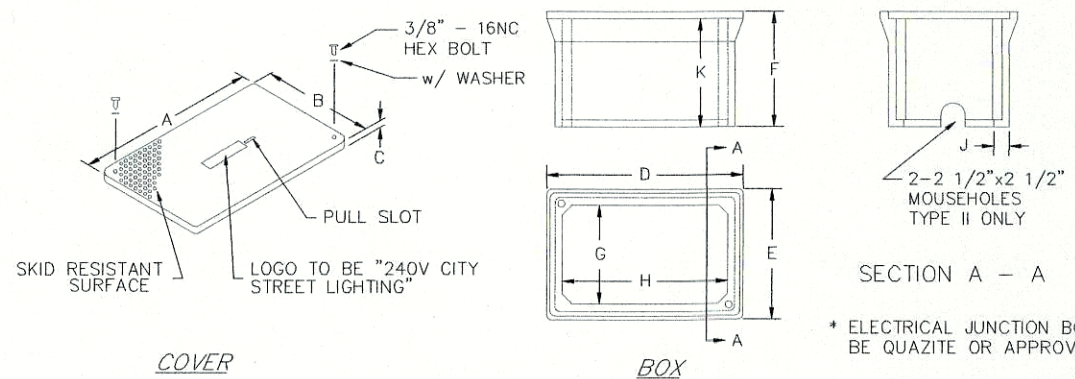
FILE: C:\2013\2013 Micro Traffic Addendum\1283875105.dgn  
DRAWN BY: J. G. B. 1/30/14  
CHECKED BY: J. G. B. 1/30/14



\* POLES AND FIXTURES SHALL BE POWDER COATED BLACK



| TYPE | MOUNTING HEIGHT | ARM SPECIFICATION | MAXIMUM TORQUE RATING (lbs ft) | A SHAFT DIA. | B SHAFT LENGTH | C HELIX DIA. | D PLATE SIZE | E PLATE THICKNESS | F BOLT CIRCLE | G SLOT LOCATION |
|------|-----------------|-------------------|--------------------------------|--------------|----------------|--------------|--------------|-------------------|---------------|-----------------|
| 1    | 14'             | —                 | 15,000                         | 6"           | 48"            | 12"          | 10"          | 0.75"             | 9.5"          | 12"             |
| 2    | 20'-30'         | SINGLE/TWIN       | 20,000                         | 8"           | 60"            | 14"          | 14.5"        | 1.0"              | 11.0"         | 18"             |
| 3    | 40'             | TWIN              | 20,000                         | 8"           | 60"            | 14"          | 18"          | 1.25"             | 14.5"         | 18"             |



| TYPE | DIMENSIONS (IN.) |        |     |        |        |        |        |        |     |        |
|------|------------------|--------|-----|--------|--------|--------|--------|--------|-----|--------|
|      | A                | B      | C   | D      | E      | F      | G      | H      | J   | K      |
| I    | 12 7/8           | 12 7/8 | 3/4 | 14     | 14     | 12 3/4 | 10 1/2 | 10 1/2 | 1   | 12     |
| II   | 18 1/2           | 11 1/2 | 3/4 | 20 1/2 | 13 1/2 | 12     | 10 1/4 | 17 1/4 | 3/8 | 11 1/4 |
| III  | 35 5/8           | 24     | 3   | 37 5/8 | 26     | 18     | 33     | 22     | 2   | 15     |

FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS \*

NOT TO SCALE

**GBA**  
architects  
engineers

225 S. Main, Suite 200  
O'Fallon, MO 63366  
636.240.2444  
www.gbateam.com

PROPOSED FACILITY:  
**MICHIGAN AVENUE  
RECONSTRUCTION**  
CITY OF ARNOLD, MISSOURI  
2912 ARNOLD TENBROOK ROAD  
ARNOLD, MISSOURI 63010



REVISION

10/09/2014

PROJECT NUMBER  
STP-5403(647)

GBA PROJECT NUMBER  
12838.00

DATE  
8/7/2014

DESIGNED:  
MCE

DRAWN:  
KLO

REVIEWED

SHEET TITLE  
**STREET LIGHTING  
SHEET 5 OF 6**

SHEET NUMBER  
**27**

GEORGE BUTLER ASSOCIATES, INC., 2008  
Architect 00212  
Professional Engineer 000133  
Landscape Architect 000025  
Professional Land Surveyor 000059

SUMMARY OF STREET LIGHTING QUANTITIES \*

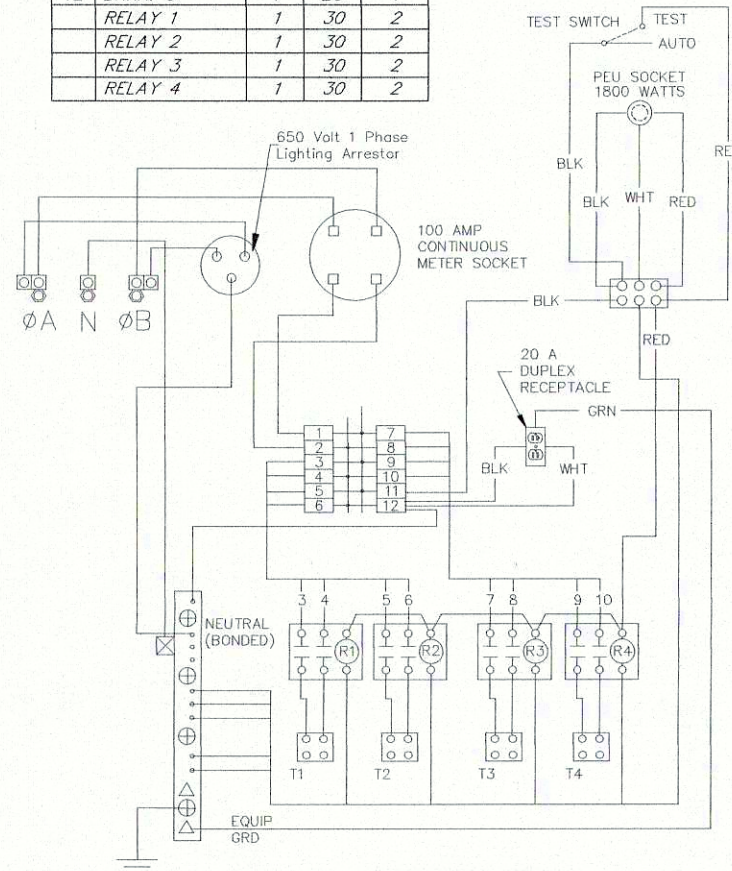
| BID ITEMS                                              | UNIT    | QUANTITY |
|--------------------------------------------------------|---------|----------|
| 14" BLACK 4" OD FLUTED POLE W/ GFI AND DECORATIVE BASE | EACH    | 31       |
| BLACK ACORN STYLE LUMINAIRE FIXTURE                    | EACH    | 31       |
| 150W HIGH PRESSURE SODIUM LUMINAIRE                    | EACH    | 31       |
| TYPE 1 SCREW-IN FOUNDATION                             | EACH    | 31       |
| GROUND ROD                                             | EACH    | 31       |
| TYPE 1 JUNCTION BOX, PREFORMED CONCRETE                | EACH    | 1        |
| TYPE 2 JUNCTION BOX, PREFORMED CONCRETE                | EACH    | 1        |
| CONTROL CENTER - PAD MOUNTED                           | EACH    | 1        |
| CONTROL CENTER FOUNDATION                              | EACH    | 1        |
| CONTROL STATION GROUND ROD                             | EACH    | 1        |
| 2" METALLIC CONDUIT (PUSHED)                           | LN. FT. | 15       |
| 3" SCHEDULE 40 P.V.C. CONDUIT (TRENCHED)               | LN. FT. | 6        |
| 2" SCHEDULE 40 P.V.C. CONDUIT (BORED)                  | LN. FT. | 42       |
| 2" SCHEDULE 40 P.V.C. CONDUIT (TRENCHED)               | LN. FT. | 11800    |
| 1c#6 TYPE USE DISTRIBUTION CABLE                       | LN. FT. | 19500    |
| 2c#10 TYPE GFI DISTRIBUTION CABLE W/ BARE NEUTRAL      | LN. FT. | 6500     |
| 1c#10 TYPE THHN/THWN POLE & BRACKET CABLE              | LN. FT. | 870      |
| 1c#12 TYPE THHN/THWN POLE & BRACKET CABLE (GFI)        | LN. FT. | 870      |
| 1c#2 TYPE POWER CABLE                                  | LN. FT. | 50       |
| CONNECTOR KIT, FUSED**                                 | EACH    | 62       |
| CONNECTOR KIT, UNFUSED**                               | EACH    | 31       |
| FARGO CONNECTORS**                                     | EACH    | 93       |

\* THESE APPROXIMATE QUANTITIES WERE PREPARED SOLELY FOR THE CONTRACTOR'S CONVENIENCE AND ARE NOT GUARANTEED TO BE A COMPLETE LIST OF MATERIALS NECESSARY FOR THE COMPLETE AND OPERATIONAL STREET LIGHT SYSTEM, WHETHER SPECIFICALLY IDENTIFIED IN THESE PLANS OR NOT.

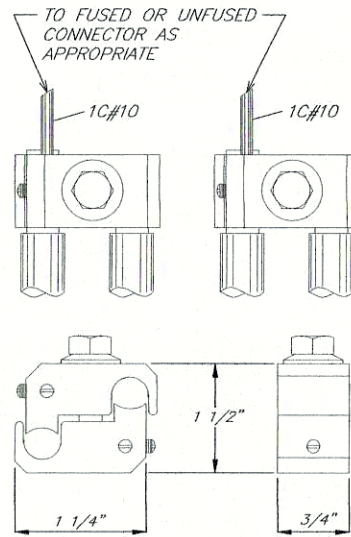
\*\* ITEMS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. NO DIRECT PAY.

CIRCUIT DIRECTORY

| NO.  | DESCRIPTION | QTY | AMP | POLE |
|------|-------------|-----|-----|------|
| 1,2  | MAIN        | 1   | 100 | 2    |
| 3,4  | BRKR. 1     | 1   | 30  | 2    |
| 5,6  | BRKR. 2     | 1   | 30  | 2    |
| 7,8  | BRKR. 3     | 1   | 30  | 2    |
| 9,10 | BRKR. 4     | 1   | 30  | 2    |
| 11   | BRKR. 5     | 1   | 15  | 1    |
| 12   | BRKR. 6     | 1   | 20  | 1    |
|      | RELAY 1     | 1   | 30  | 2    |
|      | RELAY 2     | 1   | 30  | 2    |
|      | RELAY 3     | 1   | 30  | 2    |
|      | RELAY 4     | 1   | 30  | 2    |

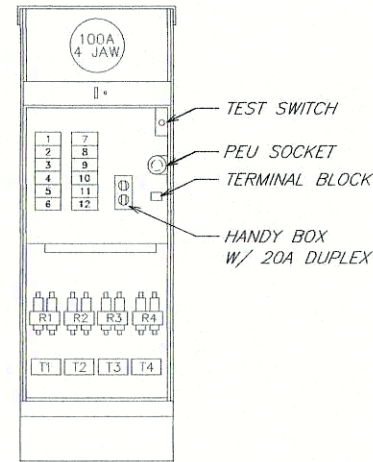


WIRING DIAGRAM



FARGO CONNECTOR

NOTE:  
INCLUDES PLASTIC  
INSULATING COVER

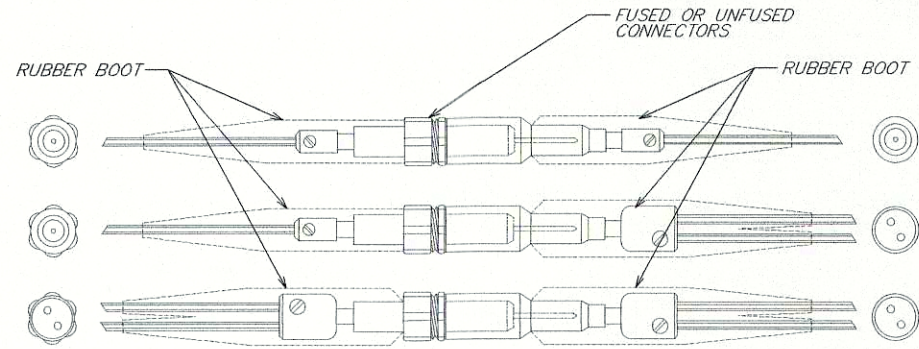


FRONT  
(LESS COVER)

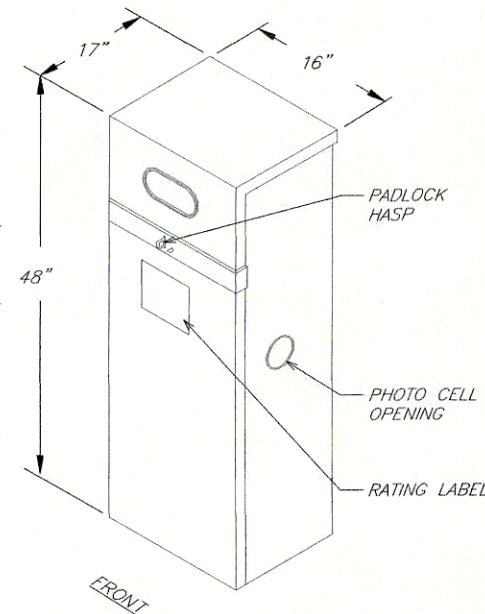
PAD MOUNTED CONTROL CENTER \*

FOUR-CIRCUIT CONTROLLER

\* SERVICE PEDESTAL SHALL BE MILLBANK ENCLOSURE, OR APPROVED EQUAL.



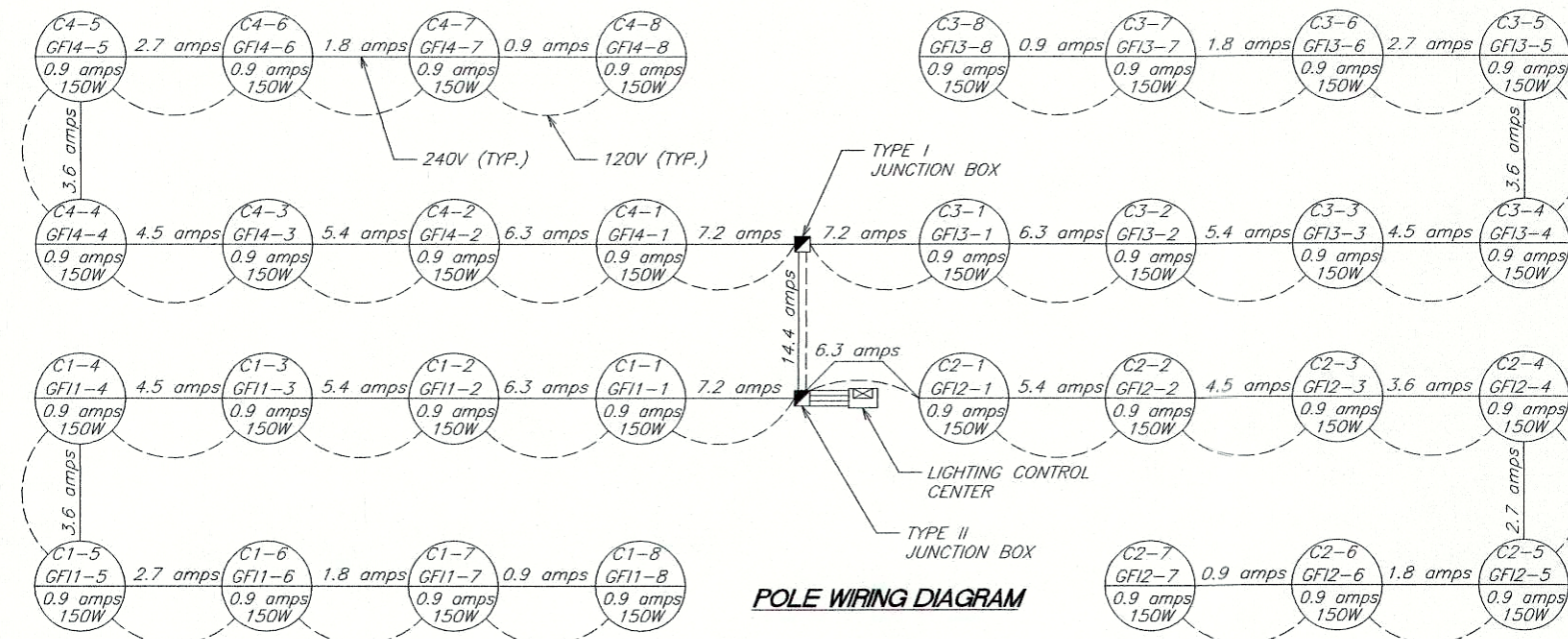
FUSED OR UNFUSED CONNECTOR



PAD MOUNTED CONTROL CENTER \*

FOUR-CIRCUIT CONTROLLER

\* SERVICE PEDESTAL SHALL BE MILLBANK ENCLOSURE, OR APPROVED EQUAL.



POLE WIRING DIAGRAM

**GBA**  
architects  
engineers

225 S. Main, Suite 200  
O'Fallon, MO 63366  
636.240.2444  
www.gbateam.com

PROPOSED FACILITY:  
**MICHIGAN AVENUE  
RECONSTRUCTION**  
CITY OF ARNOLD, MISSOURI  
2912 ARNOLD TENEBROOK ROAD  
ARNOLD, MISSOURI 63010

MICHAEL C. ERDMANN  
Professional Engineer  
License No. 2010019534

REVISION  
10/09/2014

PROJECT NUMBER  
STP-5403(647)  
GBA PROJECT NUMBER  
12838.00  
DATE  
8/7/2014

DESIGNED:  
MCE  
DRAWN:  
KLO  
REVIEWED:

SHEET TITLE  
**STREET LIGHTING  
SHEET 6 OF 6**

SHEET NUMBER  
28

© GEORGE BUTLER ASSOCIATES, INC. 2008  
Architect 00212  
Professional Engineer 000133  
Landscape Architect 000025  
Professional Land Surveyor 000059

| MICHIGAN AVENUE RECONSTRUCTION BID FORM |                                         |      |          |                |               |
|-----------------------------------------|-----------------------------------------|------|----------|----------------|---------------|
| ROADWAY ITEMS                           |                                         |      |          |                |               |
| ITEM #                                  | ITEM                                    | UNIT | QUANTITY | UNIT PRICE(\$) | EXTENSION(\$) |
| 201-20.10                               | CLEARING AND GRUBBING                   | ACRE | 1.1      |                |               |
| 202-20.10                               | REMOVAL OF IMPROVEMENTS                 | LS   | 1.0      |                |               |
| 202-22.95                               | SAWCUT (ANY DEPTH/MATERIAL)             | LF   | 821.0    |                |               |
| 203-10.00                               | CLASS "A" EXCAVATION                    | CY   | 6633.0   |                |               |
| 203-60.00                               | EMBANKMENT IN PLACE                     | CY   | 11.0     |                |               |
| 203-70.00                               | COMPACTING IN CUT                       | STA  | 32.9     |                |               |
| 304-01.04                               | TYPE 1 AGGREGATE (4")                   | SY   | 18576.3  |                |               |
| 502-11.08                               | CONCRETE PAVEMENT (8" NON-REINFORCED)   | SY   | 14476.9  |                |               |
| 603-10.35                               | ADJUST WATER SERVICE VALVE BOX TO GRADE | EA   | 12.0     |                |               |
| 603-10.40                               | ADJUST WATER SERVICE METER BOX TO GRADE | EA   | 1.0      |                |               |
| 603-10.99                               | ADJUST HYDRANT TO GRADE                 | EA   | 4.0      |                |               |
| 604-12.01                               | SINGLE CURB INLET, UNTRAPPED            | EA   | 14.0     |                |               |
| 604-12.02                               | DOUBLE CURB INLET, UNTRAPPED            | EA   | 3.0      |                |               |
| 604-19.02                               | 2-GRATE INLET, UNTRAPPED                | EA   | 6.0      |                |               |
| 604-20.10                               | ADJUST MANHOLE TO GRADE                 | EA   | 5.0      |                |               |
| 604-40.11                               | PIPE COLLAR, TYPE "A"                   | EA   | 38.0     |                |               |
| 606-10.10                               | GUARDRAIL, TYPE 'A'                     | LF   | 91.0     |                |               |
| 606-30.00                               | TERMINAL SECTION - GUARDRAIL            | EA   | 1.0      |                |               |
| 607-01.42                               | 42" CHAIN LINK FENCE                    | LF   | 111.0    |                |               |
| 608-50.08                               | PAVED APPROACH (8")                     | SY   | 3066.3   |                |               |
| 609-20.11                               | INTEGRAL CURB (6" HEIGHT AND UNDER)     | LF   | 5096.0   |                |               |
| 612-10.30                               | TYPE III MOVABLE BARRICADE              | EA   | 11.0     |                |               |
| 612-70.20                               | PORTABLE CHANGEABLE MESSAGE SIGN        | EA   | 2.0      |                |               |
| 616-10.05                               | CONSTRUCTION SIGNING                    | SF   | 414.0    |                |               |
| 616-10.22                               | TRIM-LINE CHANNELIZER                   | EA   | 80.0     |                |               |
| 616-10.95                               | EDGE DROP-OFF TREATMENT                 | LF   | 6560.0   |                |               |

|                                        |                                                                                 |    |        |  |  |
|----------------------------------------|---------------------------------------------------------------------------------|----|--------|--|--|
| 619-00.00                              | MOBILIZATION (5%)                                                               | LS | 1.0    |  |  |
| 619-99.01                              | CONTRACTOR FURNISHED SURVEYING                                                  | LS | 1.0    |  |  |
| 621-11.00                              | TEMPORARY PAVEMENT STRIPING TAPE (INCLUDES REMOVAL)                             | LF | 2580.0 |  |  |
| 703-90.13                              | MODULAR BLOCK WALL (H<4')                                                       | SF | 1006.0 |  |  |
| 726-13.21                              | 21" CLASS 3 RCP CULVERT                                                         | LF | 16.0   |  |  |
| 803-10.00                              | SODDING                                                                         | SY | 4977.7 |  |  |
| 806-45.08                              | INLET PROTECTION DEVICE, SINGLE UNIT – FILTER SOCK/ROLL                         | EA | 29.0   |  |  |
| 806-70.00                              | SILT FENCE                                                                      | LF | 6260.0 |  |  |
| <b>SUBTOTAL – ROADWAY ITEMS</b>        |                                                                                 |    |        |  |  |
| <b>SIGNING/STRIPING/LIGHTING ITEMS</b> |                                                                                 |    |        |  |  |
| 620-51.20                              | TYPE 2 PREFORMED TAPE 24 IN. WHITE (GROOVED)                                    | LF | 316.0  |  |  |
| 620-51.30                              | TYPE 2 PREFORMED MARKING TAPE (GROOVED) LEFT/RIGHT ARROW                        | EA | 32.0   |  |  |
| 620-51.32                              | TYPE 2 PREFORMED MARKING TAPE (GROOVED) COMBINATION STRAIGHT – LEFT/RIGHT ARROW | EA | 5.0    |  |  |
| 620-51.33                              | TYPE 2 PREFORMED MARKING TAPE (GROOVED) WORD “ONLY”                             | EA | 1.0    |  |  |
| 620-59.00                              | 4" WHITE HIGH BUILD ACRYLIC WATERBORNE PAINT                                    | LF | 850.0  |  |  |
| 620-59.01                              | 4" YELLOW HIGH BUILD ACRYLIC WATERBORNE PAINT                                   | LF | 7648.0 |  |  |
| 620-59.09                              | 24" YELLOW HIGH BUILD ACRYLIC WATERBORNE PAINT                                  | LF | 38.0   |  |  |
| 903-12.50A                             | U-CHANNEL POST 3 LB                                                             | LF | 176.0  |  |  |
| 903-50.04                              | TYPE SH2RL-1 SIGNING                                                            | SF | 75.3   |  |  |
| JSP                                    | RELOCATE EXISTING SIGN ASSEMBLY                                                 | EA | 7.0    |  |  |
| JSP                                    | 14' BLACK 4" OUTER DIAMETER FLUTED POLE W/ GFI AND DECORATIVE BASE              | EA | 31.0   |  |  |
| JSP                                    | BLACK ACORN STYLE LUMINAIRE FIXTURE                                             | EA | 31.0   |  |  |
| JSP                                    | 150W HIGH PRESSURE SODIUM LUMINAIRE                                             | EA | 31.0   |  |  |
| JSP                                    | TYPE 1 SCREW IN FOUNDATION                                                      | EA | 31.0   |  |  |
| JSP                                    | GROUND ROD                                                                      | EA | 31.0   |  |  |
| JSP                                    | TYPE I JUNCTION BOX, PREFORMED CONCRETE                                         | EA | 1.0    |  |  |
| JSP                                    | TYPE II JUNCTION BOX, PREFORMED CONCRETE                                        | EA | 1.0    |  |  |
| JSP                                    | CONTROL CENTER – PAD MOUNTED                                                    | EA | 1.0    |  |  |

|                                                   |                                                   |    |         |  |  |
|---------------------------------------------------|---------------------------------------------------|----|---------|--|--|
| JSP                                               | CONTROL CENTER FOUNDATION                         | EA | 1.0     |  |  |
| JSP                                               | CONTROL CENTER GROUND ROD                         | EA | 1.0     |  |  |
| JSP                                               | 2" METALLIC CONDUIT (PUSHED)                      | LF | 15.0    |  |  |
| JSP                                               | 3" SCHEDULE 40 P.V.C. CONDUIT (TRENCHED)          | LF | 6.0     |  |  |
| JSP                                               | 2" SCHEDULE 40 P.V.C. CONDUIT (PUSHED)            | LF | 42.0    |  |  |
| JSP                                               | 2" SCHEDULE 40 P.V.C. CONDUIT (TRENCHED)          | LF | 11800   |  |  |
| JSP                                               | 1C#6 TYPE USE DISTRIBUTION CABLE                  | LF | 19500.0 |  |  |
| JSP                                               | 2C#10 TYPE GFI DISTRIBUTION CABLE                 | LF | 6500.0  |  |  |
| JSP                                               | 1C#10 TYPE THHN/THWN POLE & BRACKET CABLE         | LF | 870.0   |  |  |
| JSP                                               | 1C#12 TYPE THHN/THWN POLE & BRACKET CABLE (GFI)   | LF | 870.0   |  |  |
| JSP                                               | 1C#2 TYPE POWER CABLE                             | LF | 50.0    |  |  |
| <b>SUBTOTAL – SIGNING/STRIPING/LIGHTING ITEMS</b> |                                                   |    |         |  |  |
| <b>LANDSCAPING/STREETSCAPING</b>                  |                                                   |    |         |  |  |
| 603-99.91                                         | IRRIGATION SYSTEM                                 | LS | 1.0     |  |  |
| 808-90.01                                         | PRUNUS SP. "NEWPORT" (NEWPORT PLUM)               | EA | 8.0     |  |  |
| JSP                                               | LANDSCAPING                                       | LS | 1.0     |  |  |
| <b>SUBTOTAL – LANDSCAPING/STREETSCAPING ITEMS</b> |                                                   |    |         |  |  |
| <b>BIKING/PEDESTRIAN ITEMS</b>                    |                                                   |    |         |  |  |
| 304-01.04                                         | TYPE 1 AGGREGATE (4")                             | SY | 1746.8  |  |  |
| 608-60.04                                         | CONCRETE SIDEWALK (4" THICK)                      | SY | 1746.8  |  |  |
| 607-30.25                                         | HANDRAIL (ALUMINUM, STRUCTURE)                    | LF | 275.0   |  |  |
| 608-60.98                                         | TRUNCATED DOMES FOR CURB RAMPS (NEW CONSTRUCTION) | SF | 396.4   |  |  |
| <b>SUBTOTAL – PEDESTRIAN ITEMS</b>                |                                                   |    |         |  |  |
| <b>MICHIGAN AVENUE RECONSTRUCTION TOTAL</b>       |                                                   |    |         |  |  |

**Total Bid (BASE BID) (Numbers):**

---

**Total Bid (BASE BID) (Written):**

---