

ELECTRICAL LOAD FOR INTERSECTION

| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
|------------------------|------------------|--------|--------------|------------|
| US 6 / IL 47 | RED | 9 | 7 | 50 |
| | YELLOW | 9 | 12 | 5 |
| | GREEN | 9 | 9.5 | 45 |
| | YELLOW ARROW LT. | 2 | 6 | 5 |
| | GREEN ARROW LT. | 2 | 6 | 10 |
| | YELLOW ARROW RT. | 2 | 6 | 5 |
| | GREEN ARROW RT. | 2 | 6 | 10 |
| | | 4 | 11/10 | 50/50 |
| | | 4 | 8 | 50 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | UPS | 1 | 50 | 100 |

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 STATE OF ILLINOIS

CONSTRUCTION NOTES:

MODIFY EXISTING CONTROLLER CABINET.
 INSTALL UNINTERRUPTABLE POWER SUPPLY.
 RETROFIT THE FIVE (5) 3-SECTION HEADS WITH LED SIGNAL HEADS.
 REMOVE AND REPLACE FOUR (4) 4-SECTION HEADS WITH LED 5-SECTION HEADS.
 REMOVE AND REPLACE FOUR (4) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
 REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 3 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 4 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.

BRACKET MOUNTED SIGNAL HEADS SHALL MATCH EXISTING LOCATION.

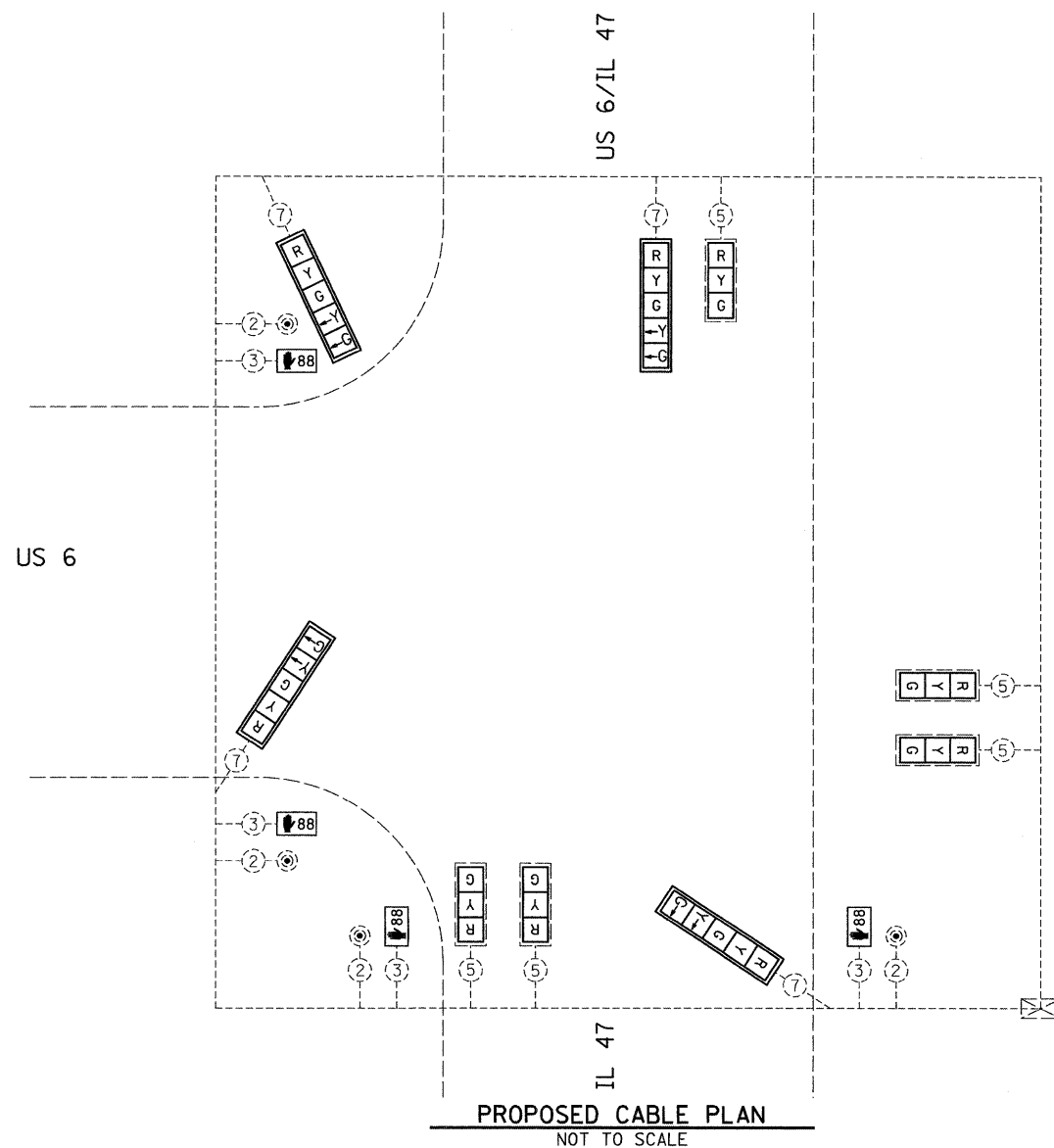
THE EXISTING MAST ARM MOUNTED 3-SECTION SIGNAL HEAD FOR NORTHBOUND US 6/IL 47 TRAFFIC SHALL BE ADJUSTED VERTICALLY SO THAT IT'S RED BALL LINES UP WITH THE RED BALL OF THE NEW 5-SECTION SIGNAL HEAD. THIS WORK WILL REQUIRE ALTERATION OR REPLACEMENT OF COMPONENTS OF THE MOUNTING SYSTEM TO ALLOW FOR AND TO CLOSE OPENINGS FOR WIRING. THIS WORK WILL BE PAID FOR AS RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT.

HOLES IN TRAFFIC SIGNAL POSTS OR MAST ARM POLES RESULTING FROM REMOVAL OF 4-SECTION SIGNAL HEADS SHALL BE COVERED WITH STAINLESS STEEL PLATES AND MOUNTING HARDWARE. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

MORRIS US 6 (BEDFORD RD.) & IL 47 (DIVISON ST.) (SOUTH JUNCTION)

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY |
|----------|---|------|----------------|
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 3 |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 |
| 88102825 | PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER | EACH | 4 |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 4 |
| 89501250 | RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 1 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| Z0033002 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 5 |
| Z0033004 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 5 |
| Z0033008 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 5 |



TRAFFIC SIGNALS LEGEND

| | |
|--|---|
| | DENOTES NUMBER OF EXISTING CONDUCTORS |
| | EXISTING CONTROLLER AND CABINET |
| | SIGNAL SECTION 12" |
| | LEFT TURN YELLOW |
| | LEFT TURN GREEN |
| | RIGHT TURN YELLOW |
| | RIGHT TURN GREEN |
| | EXISTING PEDESTRIAN PUSH BUTTON |
| | PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER |
| | TRAFFIC SIGNAL BACKPLATE |
| | RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS |

FILE NAME = 036856-SHT-TS-CABLE-MORRIS-US6-IL47-SOUTH.DGN

USER NAME = --
 PLOT SCALE = 1" = 20'
 PLOT DATE = 10/11

DESIGNED - --
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 MORRIS - US 6 & IL 47 (SOUTH INTERSECTION)

SCALE: 1" = 20' SHEET NO. -- OF --- SHEETS STA. ----- TO STA. -----

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|-------------------------|--------|--------------|-----------|
| -- | D-3 LED RETROFIT 2012-3 | * | 29 | 15 |

CONTRACT NO. 66B56
 ILLINOIS FED. AID PROJECT