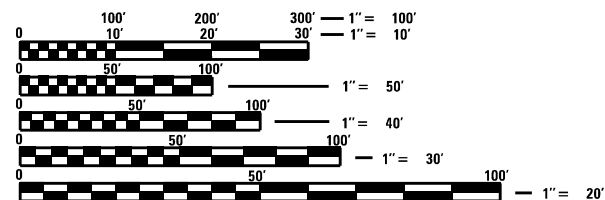


**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5 BILL OF MATERIALS
- 6 LEGEND, SCHEDULE, AND PERFORMANCE TABLE
- 7 WIRING DIAGRAM
- 8-14 LIGHTING REMOVAL PLANS
- 15-21 LIGHTING PLANS

**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701400-11 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701456-05 PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 821101-02 LUMINAIRE WIRING IN POLE
- 825001-04 LIGHTING CONTROLLER, POLE MOUNTED, 240V
- 830006-05 LIGHT POLE ALUMINUM DAVIT ARM
- 836001-04 LIGHT POLE FOUNDATION
- 838001-01 BREAKAWAY DEVICES



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

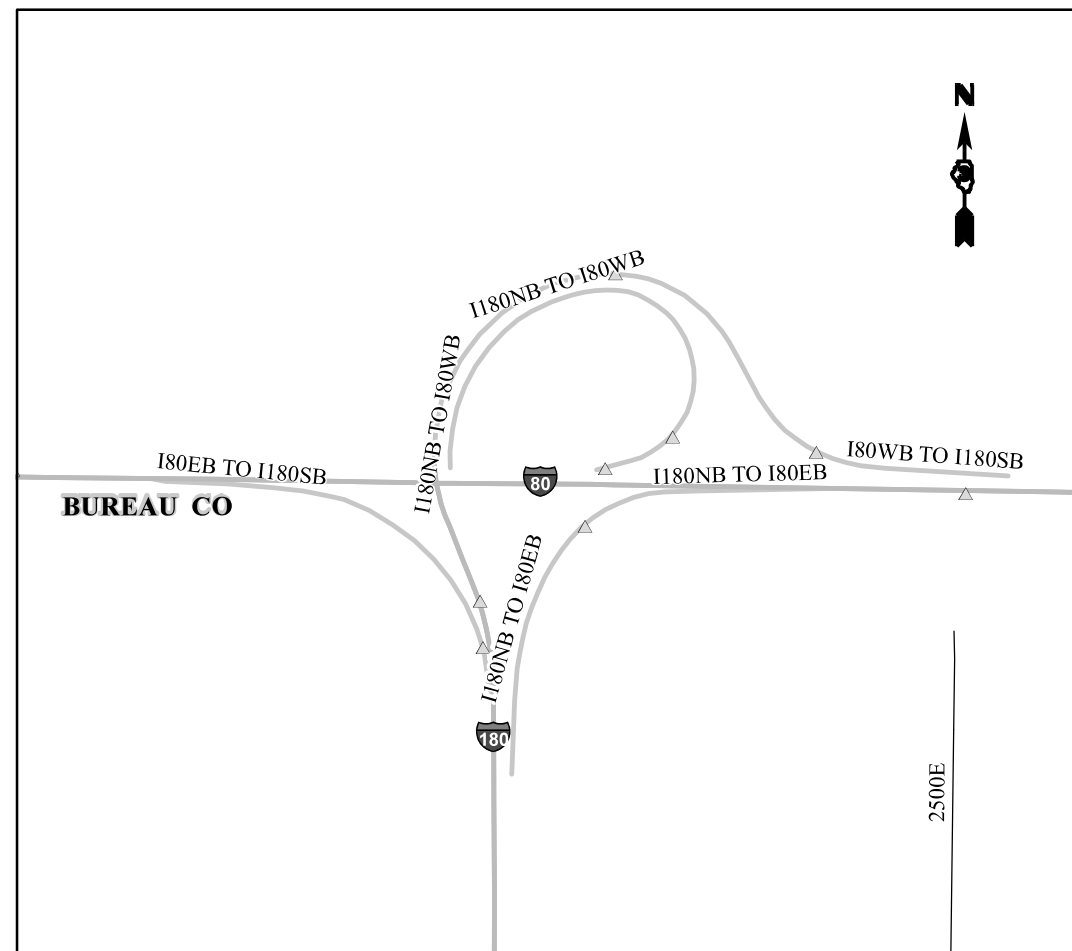
**PROJECT ENGINEER – BRAD DUNCAN**  
**UNIT CHIEF – STEPHENIE CARMIN**  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66N01

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED**  
**HIGHWAY PLANS**

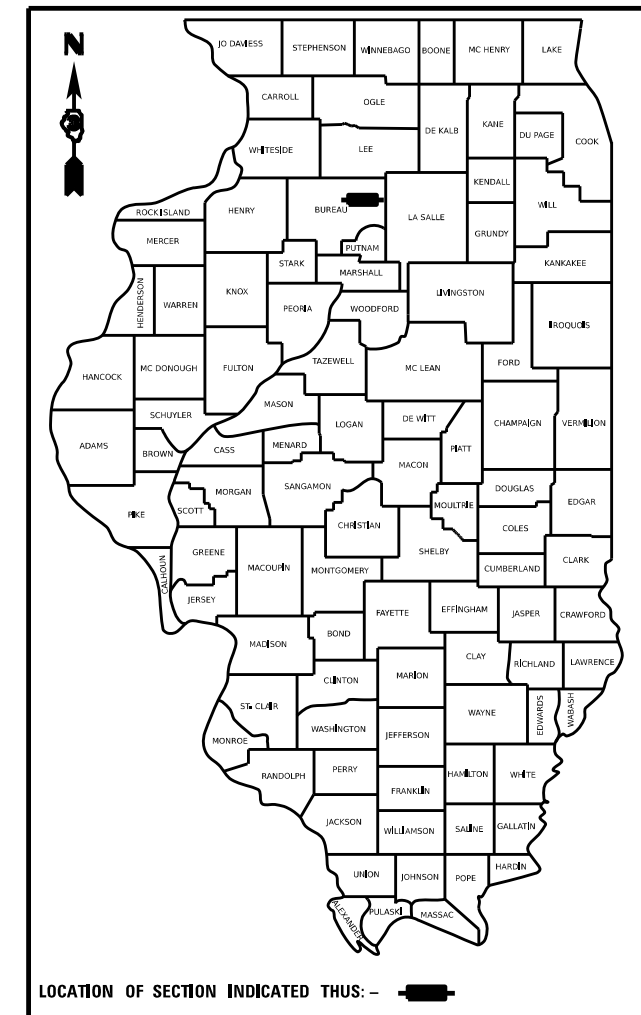
**F.A.I. ROUTE 80 (I-80)**  
**SECTION (06-6 & 06-1)HL**  
**PROJECT NHPP-L843(489)**  
**HIGH MAST LIGHT TOWER REPLACEMENT**  
**BUREAU COUNTY**

**C-93-027-23**



| F.A.I. RTE. | SECTION         | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-------------|-----------------|----------|--------------------|-----------|
| 80          | (06-6 & 06-1)HL | BUREAU   | 21                 | 1         |
|             |                 | ILLINOIS | CONTRACT NO. 66N01 |           |

D-93-008-23



**FUNCTIONAL CLASSIFICATION**  
**INTERSTATE**  
2022 ADT = 23500

**P.V. = 58.61% S.U. = 3.09% M.U. = 38.3%**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 13 2022

*James Almond*  
REGIONAL ENGINEER

February 3, 2023

*Scott A. Etk*  
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2023

*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY**  
**OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

THE MAINTENANCE OF THE EXISTING LIGHTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR ACCORDING TO ARTICLE 801.11(a) UNTIL THE NEW LIGHT TOWERS AND LIGHT POLES ARE APPROVED BY THE RESIDENT ENGINEER/TECHNICIAN.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THERE ARE NO TREES SCHEDULED TO BE REMOVED ON THIS PROJECT. IF TREES ARE TO BE REMOVED FOR WHATEVER REASON THEY WILL NOT BE ALLOWED TO BE REMOVED BETWEEN APRIL 1ST AND SEPTEMBER 30TH OF ANY GIVEN YEAR.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE LIGHTING PAY ITEMS.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDNG TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE LIGHTING PAY ITEMS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

KNOWN MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:  
NONE

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:  
ILLINOIS DEPARTMENT OF TRANSPORTATION

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION**

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION: \_\_\_\_\_

INSPECTORS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE**

PREPARED BY: \_\_\_\_\_  
DISTRICT STUDIES & PLANS ENGINEER

DATE: \_\_\_\_\_

EXAMINED BY: \_\_\_\_\_  
DISTRICT CONSTRUCTION ENGINEER

\_\_\_\_\_  
DISTRICT MATERIALS ENGINEER

\_\_\_\_\_  
DISTRICT OPERATIONS ENGINEER

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------|--------|--------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21           | 2         |
| CONTRACT NO. 66N01        |                 |        |              |           |
| ILLINOIS FED. AID PROJECT |                 |        |              |           |

Long Section Number

| CODE NO. | ITEM  | UNIT  | TOTAL QUANTITY | CONSTR. CODE                      |  |
|----------|---|-------|----------------|-----------------------------------|--|
|          |   |       |                | 90% FEDERAL<br>10% STATE          |  |
|          |   |       |                | HIGHWAY LIGHTING<br>0021<br>RURAL |  |
| 67100100 | MOBILIZATION  | L SUM | 1              | 1                                 |  |
| 70100825 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701456                                       | L SUM | 1              | 1                                 |  |
| 80400100 | ELECTRIC SERVICE INSTALLATION   | EACH  | 1              | 1                                 |  |
| 81028750 | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.                            | FOOT  | 665            | 665                               |  |
| 81603000 | UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE   | FOOT  | 4500           | 4500                              |  |
| 81603032 | UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE | FOOT  | 4000           | 4000                              |  |
| 82110008 | LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H   | EACH  | 16             | 16                                |  |
| 82500310 | LIGHTING CONTROLLER, POLE MOUNTED, 240VOLT, 60AMP                                     | EACH  | 1              | 1                                 |  |
| 83003600 | LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM                                   | EACH  | 16             | 16                                |  |
| 83600355 | LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6'                                | EACH  | 16             | 16                                |  |
| 83800650 | BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN                                | EACH  | 64             | 64                                |  |
| 84200605 | REMOVAL OF LIGHTING TOWER, NO SALVAGE   | EACH  | 6              | 6                                 |  |
| 84500110 | REMOVAL OF LIGHTING CONTROLLER  | EACH  | 1              | 1                                 |  |
| 84500120 | REMOVAL OF ELECTRIC SERVICE INSTALLATION  | EACH  | 1              | 1                                 |  |

MODEL: R00BELNAMES  
FILE NAME: 3/15/23

|                          |                  |                 |   |                              |         |       |             |            |               |              |                 |        |    |   |
|--------------------------|------------------|-----------------|---|------------------------------|---------|-------|-------------|------------|---------------|--------------|-----------------|--------|----|---|
| USER NAME = \$USERS      | DESIGNED - _____ | REVISED - _____ | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b> |         |       | F.A.I. RTE. | SECTION    | COUNTY        | TOTAL SHEETS | SHEET NO.       |        |    |   |
| PLOT SCALE = \$\$SCALE\$ | DRAWN - _____    | REVISED - _____ |   | SCALE: _____                 | SHEET 2 | OF 21 | SHEETS      | STA. _____ | TO STA. _____ | 80           | (06-6 & 06-1)HL | BUREAU | 21 | 3 |
| PLOT DATE = \$DATES      | CHECKED - _____  | REVISED - _____ |   | ILLINOIS FED. AID PROJECT    |         |       |             |            |               |              |                 |        |    |   |
|                          | DATE - _____     | REVISED - _____ |   | CONTRACT NO. 66N01           |         |       |             |            |               |              |                 |        |    |   |

Long Section Number

| CODE NO. | ITEM                                      | UNIT | TOTAL QUANTITY | CONSTR. CODE             |                  |
|----------|---|------|----------------|--------------------------|------------------|
|          |   |      |                | 90% FEDERAL<br>10% STATE | HIGHWAY LIGHTING |
|          |   |      |                | 0021                     | RURAL            |
| 84500130 | REMOVAL OF LIGHTING CONTROLLER FOUNDATION | EACH | 1              |                          | 1                |
| X8420510 | REMOVAL OF TOWER FOUNDATION               | EACH | 6              |                          | 6                |

MODEL: \$MODELNAME\$  
FILE NAME: \$FILES\$

|                        |                  |                 |
|------------------------|------------------|-----------------|
| USER NAME = \$USERS\$  | DESIGNED - _____ | REVISED - _____ |
|                        | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = \$SCALE\$ | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = \$DATES\$  | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS | SHEET NO.          |
|---------------------------|-----------------|--------|--------------|--------------------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21           | 4                  |
| ILLINOIS FED. AID PROJECT |                 |        |              | CONTRACT NO. 66N01 |

Long Section Number

### BILL OF MATERIALS









| PAY ITEM | DESCRIPTION   | UNIT | QUANTITY TOTALS |
|----------|---|------|-----------------|
| 80400100 | ELECTRIC SERVICE INSTALLATION   | EACH | 1               |
| 81028750 | UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.                                    | FOOT | 665             |
| 81603000 | UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE   | FOOT | 4500.0          |
| 81603032 | UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE | FOOT | 4000.0          |
| 82110008 | LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H   | EACH | 16.0            |
| 82500310 | LIGHTING CONTROLLER, POLE MOUNTED, 240VOLT, 60AMP                                     | EACH | 1.0             |
| 83003600 | LIGHT POLE, ALUMINUM, 45FT. M.H., 15FT. DAVIT ARM                                     | EACH | 16.0            |
| 83600355 | LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X6'                                 | EACH | 16.0            |
| 83800650 | BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN                                | EACH | 64.0            |
| 84200605 | REMOVAL OF LIGHTING TOWER, NO SALVAGE   | EACH | 6.0             |
| 84500110 | REMOVAL OF LIGHTING CONTROLLER  | EACH | 1.0             |
| 84500120 | REMOVAL OF ELECTRIC SERVICE INSTALLATION  | EACH | 1.0             |
| 84500130 | REMOVAL OF LIGHTING CONTROLLER FOUNDATION   | EACH | 1.0             |
| X8420510 | REMOVAL OF TOWER FOUNDATION   | EACH | 6.0             |

MODEL: RACRENAME\$  
FILENAME: SHEETS

|                         |                  |                 |   |                          |   |                 |  |              |           |  |
|-------------------------|------------------|-----------------|---|--------------------------|---|-----------------|--|--------------|-----------|--|
| USER NAME = \$USERS     | DESIGNED - _____ | REVISED - _____ | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>BILL OF MATERIALS</b> | F.A.I. RTE.   | SECTION         | COUNTY                                       | TOTAL SHEETS | SHEET NO. |  |
| PLOT SCALE = \$\$CALE\$ | CHECKED - _____  | REVISED - _____ |   |                          | 80  | (06-6 & 06-1)HL | BUREAU                                       | 21           | 5         |  |
| PLOT DATE = \$DATES     | DATE - _____     | REVISED - _____ |   |                          | SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____ |                 | ILLINOIS FED. AID PROJECT CONTRACT NO. 66N01 |              |           |  |
|                         |                  |                 |   |                          | Long Section Number   |                 |  |              |           |  |

## Luminaire Performance Table

### LEGEND

-  EXISTING ELECTRIC SERVICE TO BE REMOVED
-  PROPOSED ELECTRIC SERVICE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  PROPOSED LIGHTING CONTROLLER
-  EXISTING LIGHT TOWER TO BE REMOVED
-  PROPOSED LIGHTING UNIT, ALUMINUM POLE 45 FT. M.H., 15 FT DAVIT ARM, WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H
-  PROPOSED UNIT DUCT, SIZED AS NOTED
-  PROPOSED COLABLE NONMETALLIC CONDUIT (CNC) 2" DIA. LENGTH AS NOTED

### CONDUCTOR SCHEDULE

- ① UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE.
- ② UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 (XLP-TYPE USE), 1" DIA. POLYETHYLENE

#### Project

|                     |                 |                |        |
|---------------------|-----------------|----------------|--------|
| Date                | Contract Number | Section Number | County |
| 6/30/22             |                 | N/A            | GRANDY |
| Marked Route Number |                 | Municipality   |        |
| I-80 AT I-180       |                 | UNINCORPORATED |        |

#### Roadway

|            |            |              |                              |              |
|------------|------------|--------------|------------------------------|--------------|
| Lane Width | # of Lanes | Median Width | I.E.S Surface Classification | O-Zero Value |
| 12         | 3          | N/A          | R5                           | 0.07         |

#### Structure

|                 |            |          |  |
|-----------------|------------|----------|--|
| Mounting Height | Arm Length | Set Back | Number of Luminaires (Highmast & Sign Lighting Only) |
| 45 FT           | 15 FT      | 30 FT    | N/A  |

#### Luminaire

|                               |                             |                              |                  |
|-------------------------------|-----------------------------|------------------------------|------------------|
| Description                   | I.E.S. Lateral Distribution | I.E.S. Vertical Distribution |                  |
| ROADWAY, OUTPUT DESIGNATION H | MEDIUM                      | TYPE III                     |                  |
| Total Light Loss Factor (LLF) | BUG Rating                  | Shield                       | Dimming Protocol |
| 0.7                           | U = 0                       | N/A                          | 0-10V            |

#### Layout

|   |
|---|
| Spacing (to Nearest 5 Ft) Configuration (Opposite, Staggered, 1 Sided, or Median) |
| 220 FT SINGLE SIDED   |

#### Performance

|                                      |                                     |                                     |  |
|--------------------------------------|-------------------------------------|-------------------------------------|--|
| Average Illuminance, $E_{avg}(fc)$   | Uniformity Ratio, $E_{avg}/E_{min}$ |                                     |  |
| GREATER THAN OR EQUAL TO 0.6         | LESS THAN OR EQUAL TO 3d            |                                     |  |
| Average Luminance, $L_{avg}(cd/m^2)$ | Uniformity Ratio, $L_{avg}/L_{min}$ | Uniformity Ratio, $L_{max}/L_{min}$ | Veiling Luminance Ratio, $L_v/L_{min}$ |
| GREATER THAN OR EQUAL TO 0.4         | LESS THAN OR EQUAL TO 3.5d          | LESS THAN OR EQUAL TO 6d            | LESS THAN OR EQUAL TO 0.3d             |

#### Light Trespass

|                               |                                       |                                     |
|-------------------------------|---------------------------------------|-------------------------------------|
| Distance to ROW (behind pole) | Max. Horizontal Illuminance at ROW, E | Max. Vertical Illuminance at ROW, E |
| N/A                           | N/A                                   | N/A                                 |

#### Notes

1. Set Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.
5. Calculations shall be performed in one direction only.
6. Luminaire performance table does not necessarily reflect roadway geometry, physical arm length, or mounting height.
7. Compliance with performance criteria shall be held to one significant digit.

MODEL AND DIMENSIONS FILE NAME: E1E13

|                     |                  |                 |
|---------------------|------------------|-----------------|
| USER NAME = SUSERS  | DESIGNED - _____ | REVISED - _____ |
|                     | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = SCALES | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = SDATES  | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

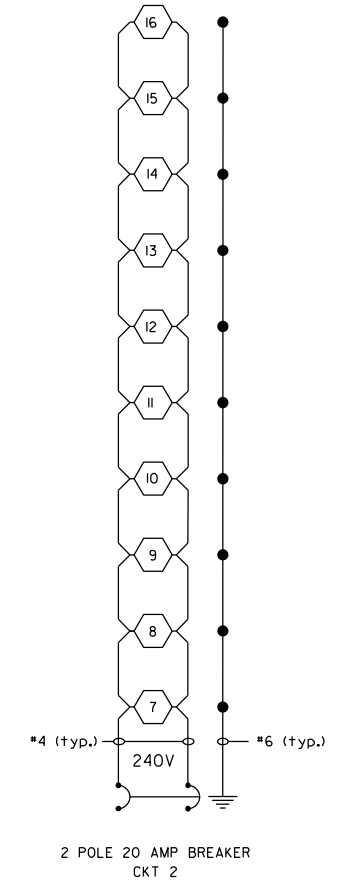
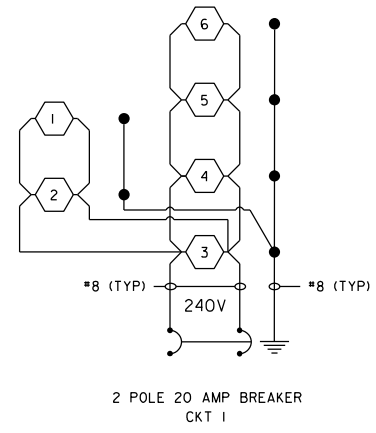
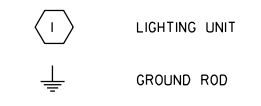
|   |                             |                          |  |
|---|-----------------------------|--------------------------|--|
| <b>I-80 at I-180<br/>LEGEND, SCHEDULE, &amp; PERF TAB</b> |                             |                          |  |
| SCALE: _____  | SHEET _____ OF _____ SHEETS | STA. _____ TO STA. _____ |  |

|                           |                 |        |                    |           |
|---------------------------|-----------------|--------|--------------------|-----------|
| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 6         |
|                           |                 |        | CONTRACT NO. 66N01 |           |
| ILLINOIS FED. AID PROJECT |                 |        |                    |           |

**E1**

NOTES:

- I. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.



## LIGHTING CONTROLLER 1

MODEL: 140061MAMES  
FILE NAME: 06L01

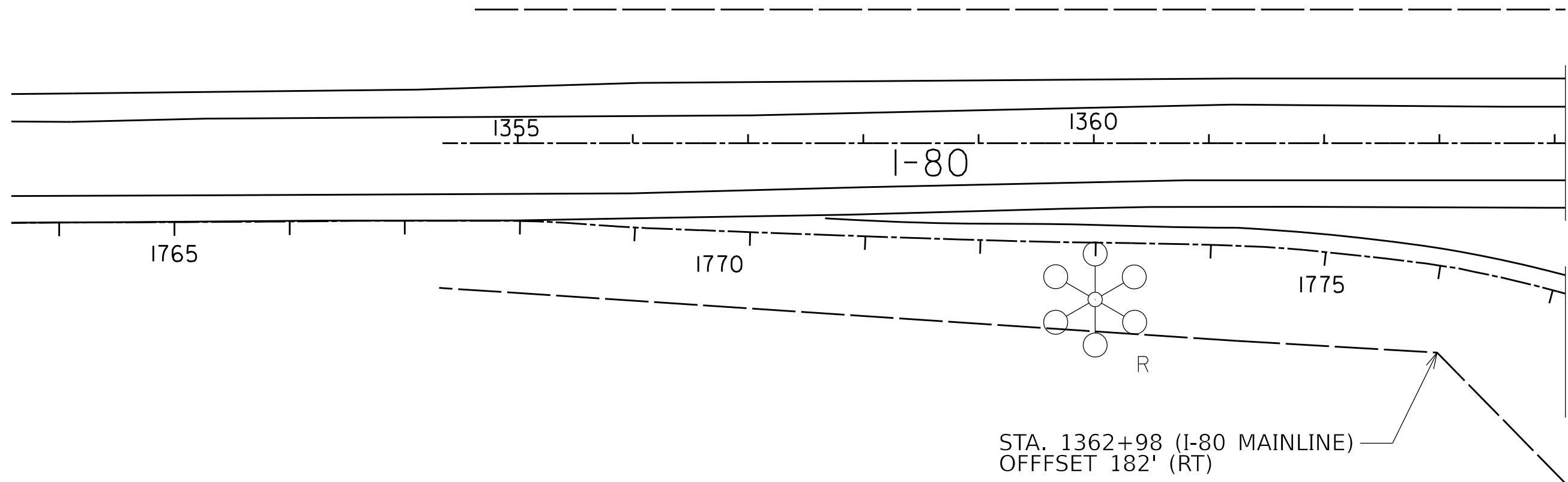
|                      |                  |                 |
|----------------------|------------------|-----------------|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ |
|                      | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 5SCALES | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = SDATES   | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 at I-180  
WIRING DIAGRAM**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------|--------|--------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21           | 7         |
| CONTRACT NO. 66N01        |                 |        |              |           |
| ILLINOIS FED. AID PROJECT |                 |        |              |           |



**E3**

MODEL: MODEL\MAMES  
FILE NAME: 06E3

|                      |                  |                 |   |   |                             |                          |                           |                 |                   |               |  |
|----------------------|------------------|-----------------|---|---|-----------------------------|--------------------------|---------------------------|-----------------|-------------------|---------------|--|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>I-80 AT I-180<br/>LIGHTING REMOVAL PLANS</b> |                             | F.A.I. RTE. = 80         | SECTION = (06-6 & 06-1)HL | COUNTY = BUREAU | TOTAL SHEETS = 21 | SHEET NO. = 8 |  |
| PLOT SCALE = 5SCALES | CHECKED - _____  | REVISED - _____ |   | SCALE: _____                                    | SHEET _____ OF _____ SHEETS | STA. _____ TO STA. _____ | CONTRACT NO. 66N01        |                 |                   |               |  |
| PLOT DATE = SDATES   | DATE - _____     | REVISED - _____ |   | ILLINOIS FED. AID PROJECT                       |                             |                          |                           |                 |                   |               |  |
|                      |                  |                 |   |   |                             |                          |                           |                 |                   |               |  |





MATCH LINE  
SHEET E7 - STA. 793+30

MATCH LINE  
SHEET E7 - STA. 693+60

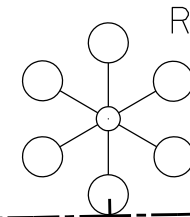
STA. 1365+55  
OFFSET 116' (LT)

795

695

660

665



MATCH LINE  
SHEET E3  
STA. 1364+10

1365

I-80

1370

1375

I-80

MATCH LINE  
SHEET E5  
STA. 666+10

MATCH LINE  
SHEET E3  
STA. 1777+10

1780

MATCH LINE  
SHEET E9  
STA. 1783+60

MATCH LINE  
SHEET E9  
STA. 1883+15

MATCH LINE  
SHEET E9  
STA. 104+60

MATCH LINE  
SHEET E9  
STA. 1683+00

MATCH LINE  
SHEET E5  
STA. 1681+00

**E4**

MODEL: MODEL\MAMES  
FILE NAME: 06E4

|                      |                  |                 |
|----------------------|------------------|-----------------|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ |
| PLOT SCALE = 5/8"=1' | DRAWN - _____    | REVISD - _____  |
| PLOT DATE = 5/20/05  | CHECKED - _____  | REVISD - _____  |
|                      | DATE - _____     | REVISD - _____  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-80 AT I-180  
LIGHTING REMOVAL PLANS

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                    |                         |               |                           |             |
|--------------------|-------------------------|---------------|---------------------------|-------------|
| F.A.I. RTE: 80     | SECTION (06-6 & 06-1)HL | COUNTY BUREAU | TOTAL SHEETS 21           | SHEET NO. 9 |
| CONTRACT NO. 66N01 |                         |               | ILLINOIS FED. AID PROJECT |             |



MATCH LINE  
SHEET E8 - STA. 673+40

MATCH LINE  
SHEET E8 - STA. 768+15

STA. 1390+00 (I-80 MAINLINE)  
OFFFSET 305' (LT)

765

670

MATCH LINE  
SHEET E4  
STA. 666+10

MATCH LINE  
SHEET E6  
STA. 764+30

1380

1385

1390

I-80

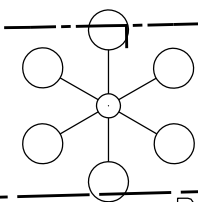
I-80

MATCH LINE  
SHEET E4  
STA. 1377+60

MATCH LINE  
SHEET E6  
STA. 1391+05

1675

1670



STA. 1381+00 (I-80 MAINLINE)  
OFFSET 171' (RT)

1680

MATCH LINE  
SHEET E4  
STA. 1681+00

MATCH LINE  
SHEET E6  
STA. 1666+90

**E5**

MODEL: MODEL\MAMES  
FILE NAME: 06E5

|                       |                  |                 |
|-----------------------|------------------|-----------------|
| USER NAME = SUSERS    | DESIGNED - _____ | REVISED - _____ |
|                       | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 5/32"=1' | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = SDATES    | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 AT I-180  
LIGHTING REMOVAL PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

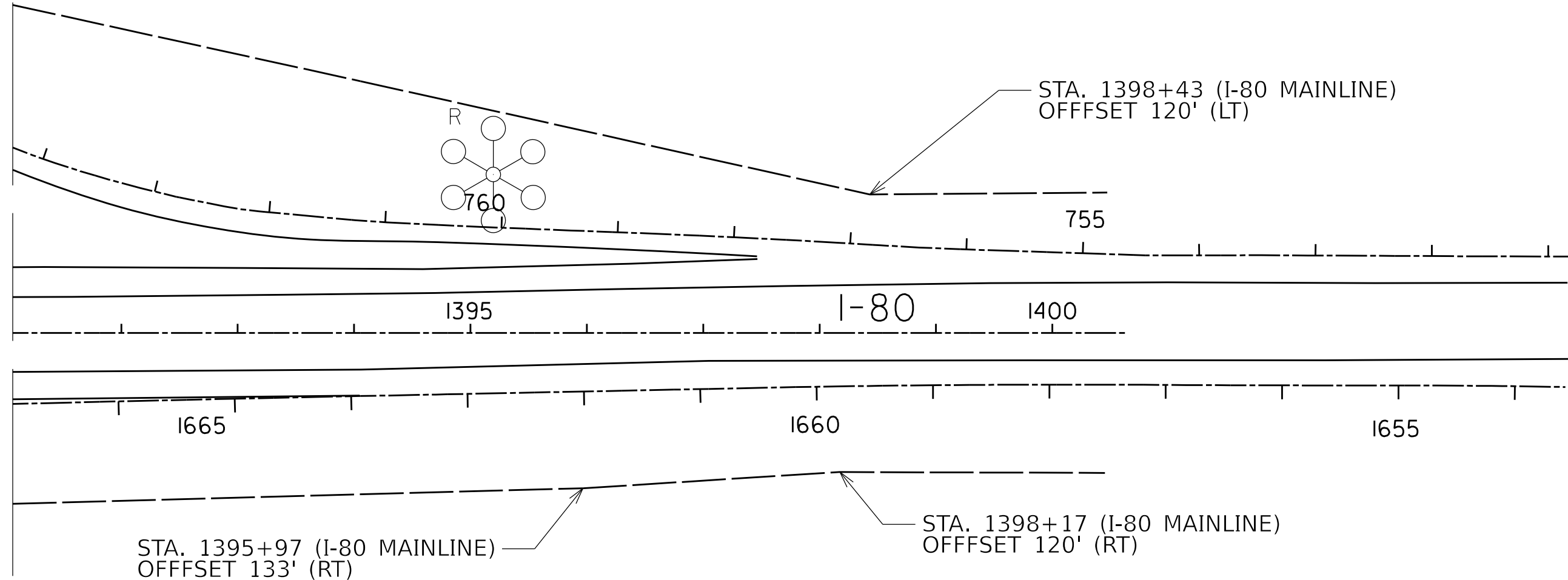
|                           |                            |                  |                    |                 |
|---------------------------|----------------------------|------------------|--------------------|-----------------|
| F.A.I. RTE.<br>80         | SECTION<br>(06-6 & 06-1)HL | COUNTY<br>BUREAU | TOTAL SHEETS<br>21 | SHEET NO.<br>10 |
| ILLINOIS FED. AID PROJECT |                            |                  | CONTRACT NO. 66N01 |                 |



MATCH LINE  
SHEET E5  
STA. 764+30

MATCH LINE  
SHEET E5  
STA. 1391+05

MATCH LINE  
SHEET E5  
STA. 1666+90



E6

MODEL NAME: MAMIES  
FILE NAME: 06E6

|                      |                  |                 |
|----------------------|------------------|-----------------|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ |
| DRAWN - _____        | REVISOR - _____  | REVISOR - _____ |
| PLOT SCALE = 5/8"=1' | CHECKED - _____  | REVISOR - _____ |
| PLOT DATE = 5/20/15  | DATE - _____     | REVISOR - _____ |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-80 AT I-180  
LIGHTING REMOVAL PLANS

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------------|--------|--------------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 11        |
| ILLINOIS FED. AID PROJECT |                 |        | CONTRACT NO. 66N01 |           |



STA. 786+76 (OUTSIDE RAMP)  
OFFSET 275' (RT)

EXISTING  
ELECTRIC SERVICE  
TO BE REMOVED

R

EXISTING  
LIGHTING CONTROLLER  
TO BE REMOVED

R

MATCH LINE  
SHEET E8  
STA. 781+15

MATCH LINE  
SHEET E8  
STA. 684+15

785

685

790

690

MATCH LINE  
SHEET E4 - STA. 793+30

MATCH LINE  
SHEET E4 - STA. 693+60

**E7**

MODEL: MODEL\MAMES  
FILE NAME: 06E7

|                      |                  |                 |
|----------------------|------------------|-----------------|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ |
| DRAWN - _____        | REVISED - _____  |                 |
| PLOT SCALE = 5SCALES | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = SDATES   | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 AT I-180  
LIGHTING REMOVAL PLANS**

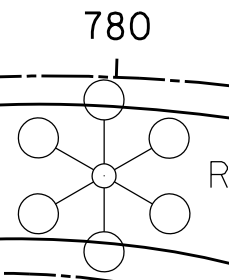
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------------|--------|--------------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 12        |
| ILLINOIS FED. AID PROJECT |                 |        | CONTRACT NO. 66N01 |           |



MATCH LINE  
SHEET E8  
STA. 781+15

MATCH LINE  
SHEET E8  
STA. 684+15



780

680

775

STA. 774+84 (OUTSIDE RAMP)  
OFFFSET 116' (RT)

675

770

MATCH LINE  
SHEET E5 - STA. 673+40

MATCH LINE  
SHEET E5 - STA. 768+15

**E8**

MODEL: MODEL\MAMES  
FILE NAME: 06E8

|                      |                  |                 |
|----------------------|------------------|-----------------|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ |
|                      | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 5SCALES | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = SDATES   | DATE - _____     | REVISED - _____ |

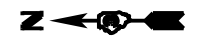
|                  |                 |
|------------------|-----------------|
| DESIGNED - _____ | REVISED - _____ |
| DRAWN - _____    | REVISED - _____ |
| CHECKED - _____  | REVISED - _____ |
| DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 AT I-180  
LIGHTING REMOVAL PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.        | SECTION         | COUNTY | TOTAL SHEETS              | SHEET NO. |
|--------------------|-----------------|--------|---------------------------|-----------|
| 80                 | (06-6 & 06-1)HL | BUREAU | 21                        | 13        |
| CONTRACT NO. 66N01 |                 |        | ILLINOIS FED. AID PROJECT |           |

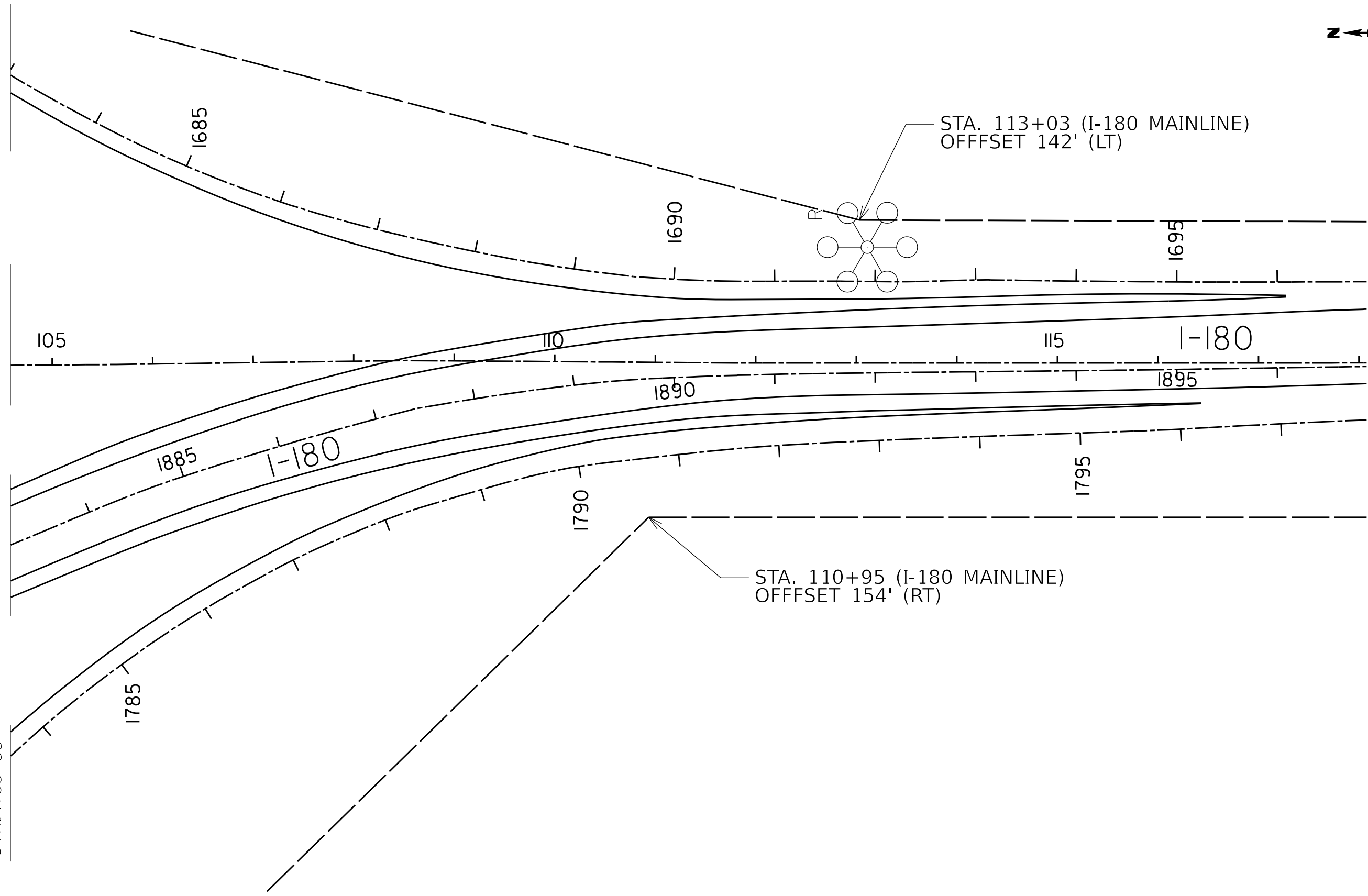


MATCH LINE  
SHEET E4  
STA. 1683+00

MATCH LINE  
SHEET E4  
STA. 104+60

MATCH LINE  
SHEET E4  
STA. 1883+15

MATCH LINE  
SHEET E4  
STA. 1783+55



STA. 113+03 (I-180 MAINLINE)  
OFFFSET 142' (LT)

STA. 110+95 (I-180 MAINLINE)  
OFFFSET 154' (RT)

E9

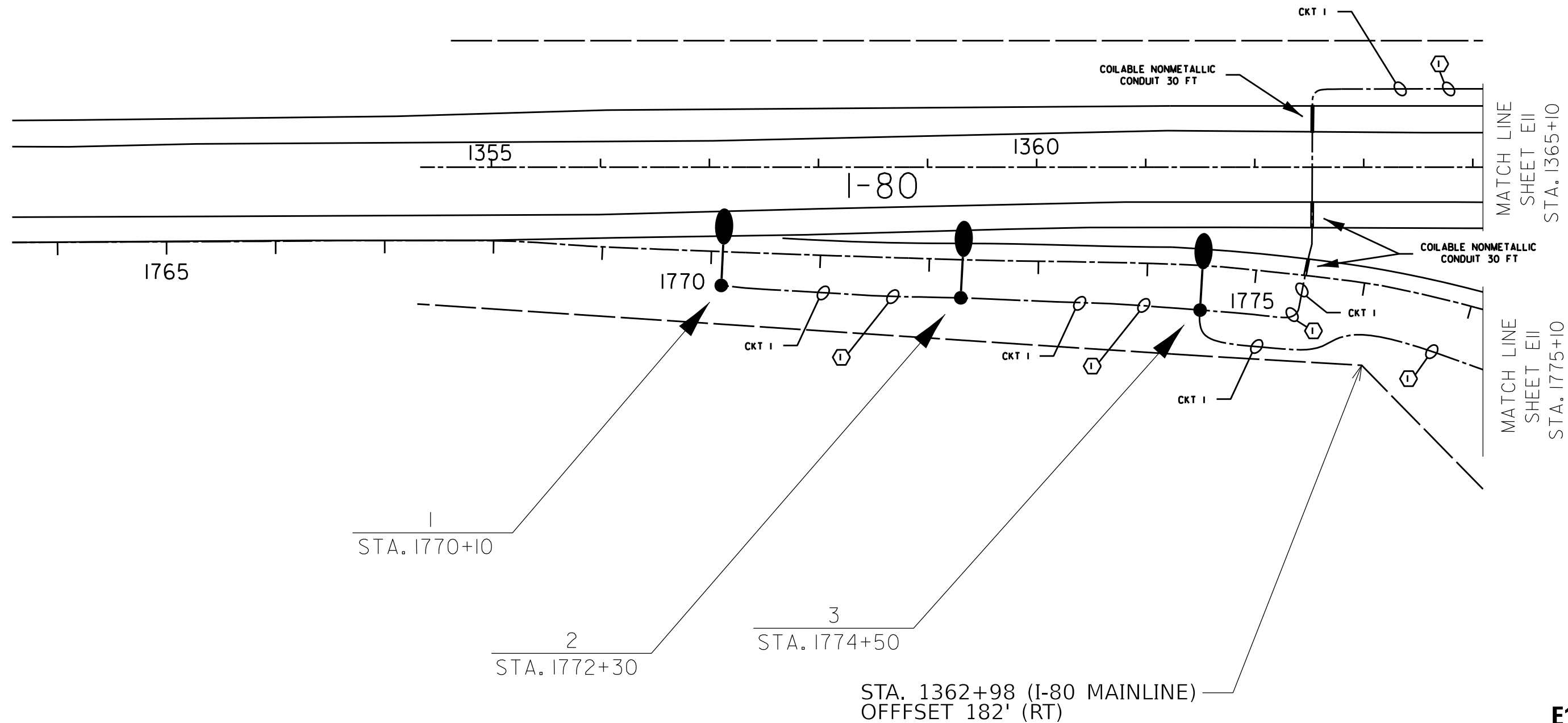
MODEL: MODELNAME  
FILE NAME: FILENAME

|                      |                  |                 |
|----------------------|------------------|-----------------|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ |
| PLOT SCALE = 5SCALES | DRAWN - _____    | REVISED - _____ |
| PLOT DATE = SDATES   | CHECKED - _____  | REVISED - _____ |
|                      | DATE - _____     | REVISED - _____ |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|   |  |
|---|--|
| I-80 AT I-180<br>LIGHTING REMOVAL PLANS |  |
| SCALE: _____                            | SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____ |

|                           |                         |        |                    |              |
|---------------------------|-------------------------|--------|--------------------|--------------|
| F.A.I. RTE. 80            | SECTION (06-6 & 06-1)HL | COUNTY | TOTAL SHEETS 21    | SHEET NO. 14 |
| ILLINOIS FED. AID PROJECT |                         |        | CONTRACT NO. 66N01 |              |



**E10**

MODEL: M001E10.MXD  
FILE NAME: E10.DWG

|                       |                   |                 |
|-----------------------|-------------------|-----------------|
| USER NAME = SUSERS    | DESIGNED - _____  | REVISED - _____ |
| DRAWN - _____         | REVISIONS - _____ |                 |
| PLOT SCALE = 5/32"=1' | CHECKED - _____   | REVISED - _____ |
| PLOT DATE = 5/24/15   | DATE - _____      | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 at I-180  
LIGHTING PLANS**

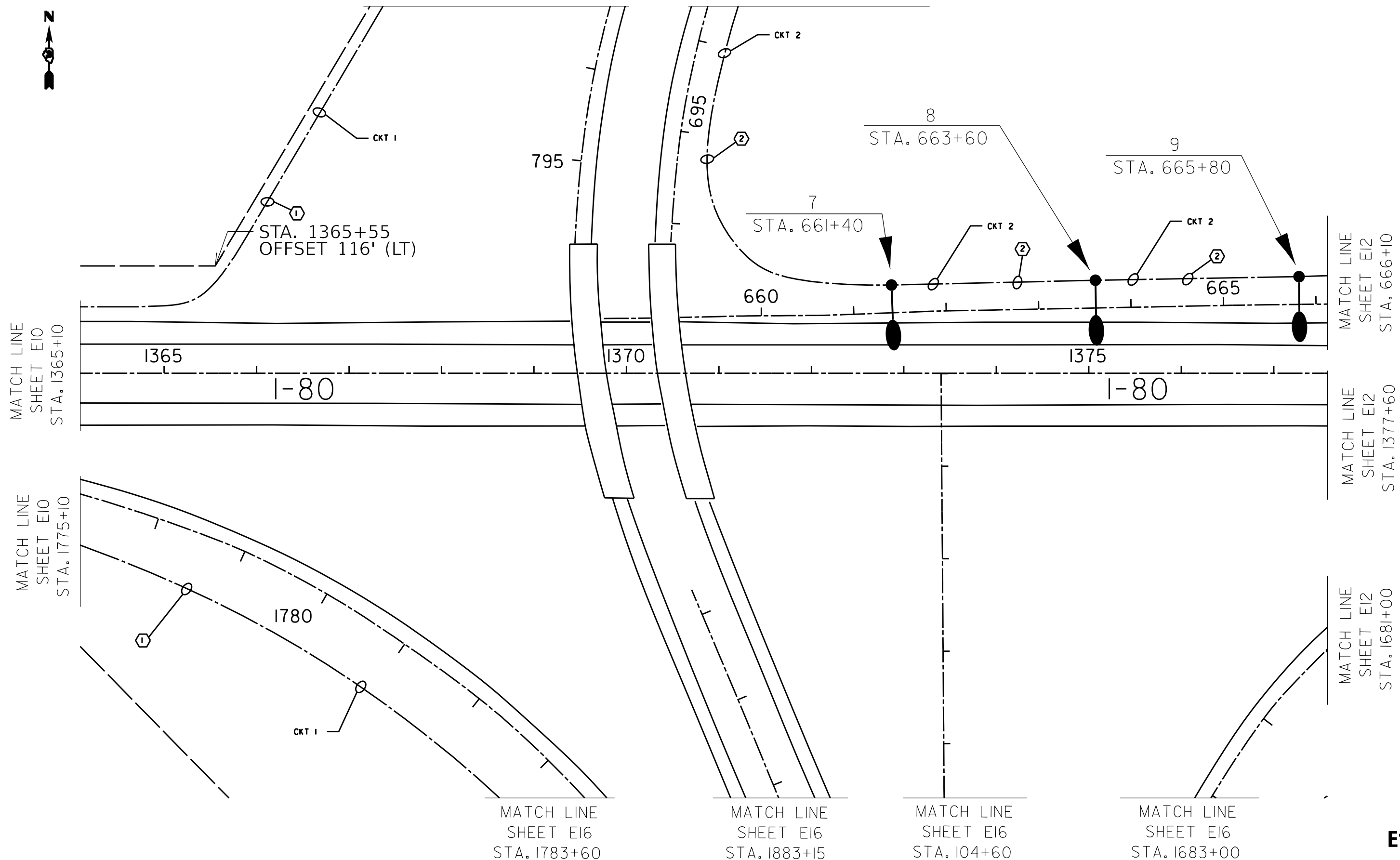
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                    |                         |               |                           |              |
|--------------------|-------------------------|---------------|---------------------------|--------------|
| F.A.I. RTE. 80     | SECTION (06-6 & 06-1)HL | COUNTY BUREAU | TOTAL SHEETS 21           | SHEET NO. 15 |
| CONTRACT NO. 66N01 |                         |               | ILLINOIS FED. AID PROJECT |              |



MATCH LINE  
SHEET E14 - STA. 793+30

MATCH LINE  
SHEET E14 - STA. 693+60



MATCH LINE  
SHEET E10  
STA. 1365+10

MATCH LINE  
SHEET E12  
STA. 666+10

MATCH LINE  
SHEET E12  
STA. 1377+60

MATCH LINE  
SHEET E10  
STA. 1775+10

MATCH LINE  
SHEET E12  
STA. 1681+00

MATCH LINE  
SHEET E16  
STA. 1783+60

MATCH LINE  
SHEET E16  
STA. 1883+15

MATCH LINE  
SHEET E16  
STA. 104+60

MATCH LINE  
SHEET E16  
STA. 1683+00

**E11**

MODEL: 140761MAM1ES  
FILE NAME: 06E11

|                       |                  |                 |
|-----------------------|------------------|-----------------|
| USER NAME = SUSERS    | DESIGNED - _____ | REVISED - _____ |
| PLOT SCALE = 5/32"=1' | DRAWN - _____    | REVISED - _____ |
| PLOT DATE = SDATES    | CHECKED - _____  | REVISED - _____ |
|                       | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 at I-180  
LIGHTING PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                    |                         |               |                           |              |
|--------------------|-------------------------|---------------|---------------------------|--------------|
| F.A.I. RTE: 80     | SECTION (06-6 & 06-1)HL | COUNTY BUREAU | TOTAL SHEETS 21           | SHEET NO. 16 |
| CONTRACT NO. 66N01 |                         |               | ILLINOIS FED. AID PROJECT |              |



MATCH LINE  
SHEET E15 - STA. 673+40

MATCH LINE  
SHEET E15 - STA. 768+15

10  
STA. 668+00

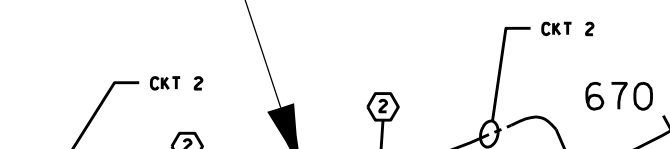


STA. 1390+00 (I-80 MAINLINE)  
OFFFSET 305' (LT)

765

MATCH LINE  
SHEET E13  
STA. 764+30

MATCH LINE  
SHEET E11  
STA. 666+10



COILABLE NONMETALLIC  
CONDUIT 30 FT

1380

1385

1390

I-80

I-80

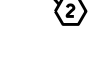
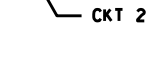
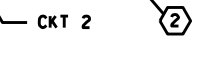
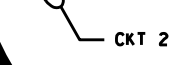
MATCH LINE  
SHEET E13  
STA. 1391+05

MATCH LINE  
SHEET E11  
STA. 1377+60

COILABLE NONMETALLIC  
CONDUIT 30 FT

1675

1670



MATCH LINE  
SHEET E13  
STA. 1666+90

STA. 1381+00 (I-80 MAINLINE)  
OFFSET 171' (RT)

1680

11  
STA. 1676+10

13  
STA. 1671+70

12  
STA. 1673+90

MATCH LINE  
SHEET E11  
STA. 1681+00

E12

MODEL: M001E11M1E5  
FILE NAME: 06E12

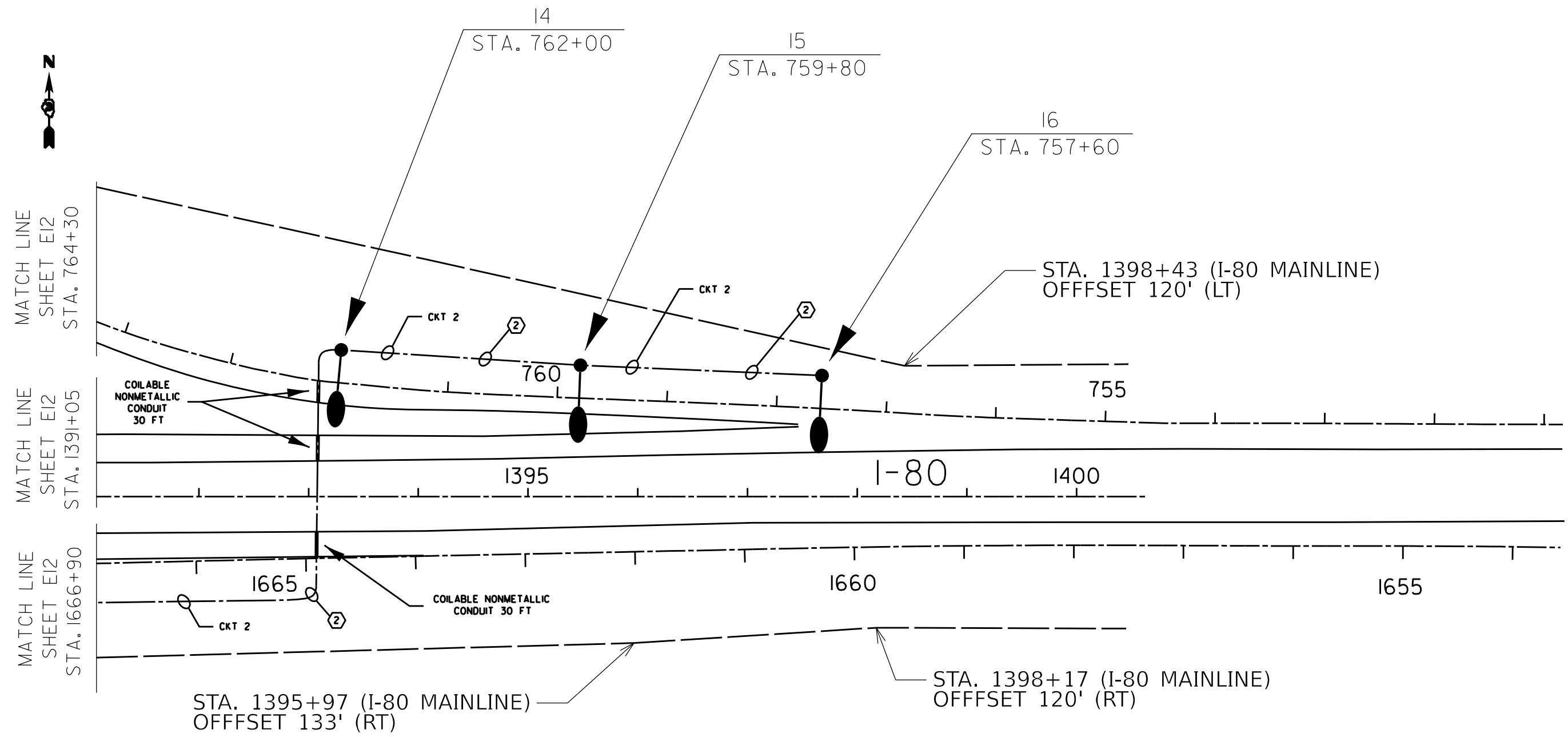
|                       |                   |                 |
|-----------------------|-------------------|-----------------|
| USER NAME = SUSERS    | DESIGNED - _____  | REVISED - _____ |
| DRAWN - _____         | REVISIONS - _____ |                 |
| PLOT SCALE = 5/32"=1' | CHECKED - _____   | REVISED - _____ |
| PLOT DATE = 5/20/15   | DATE - _____      | REVISED - _____ |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-80 at I-180  
LIGHTING PLANS

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------------|--------|--------------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 17        |
| ILLINOIS FED. AID PROJECT |                 |        | CONTRACT NO. 66N01 |           |



**E13**

MODEL: MODEL\MAMES  
FILE NAME: 06E13

|                       |                  |                 |
|-----------------------|------------------|-----------------|
| USER NAME = SUSERS    | DESIGNED - _____ | REVISED - _____ |
|                       | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 5/32"=1' | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = 5/24/2015 | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 at I-180  
LIGHTING PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------------|--------|--------------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 18        |
| ILLINOIS FED. AID PROJECT |                 |        | CONTRACT NO. 66N01 |           |



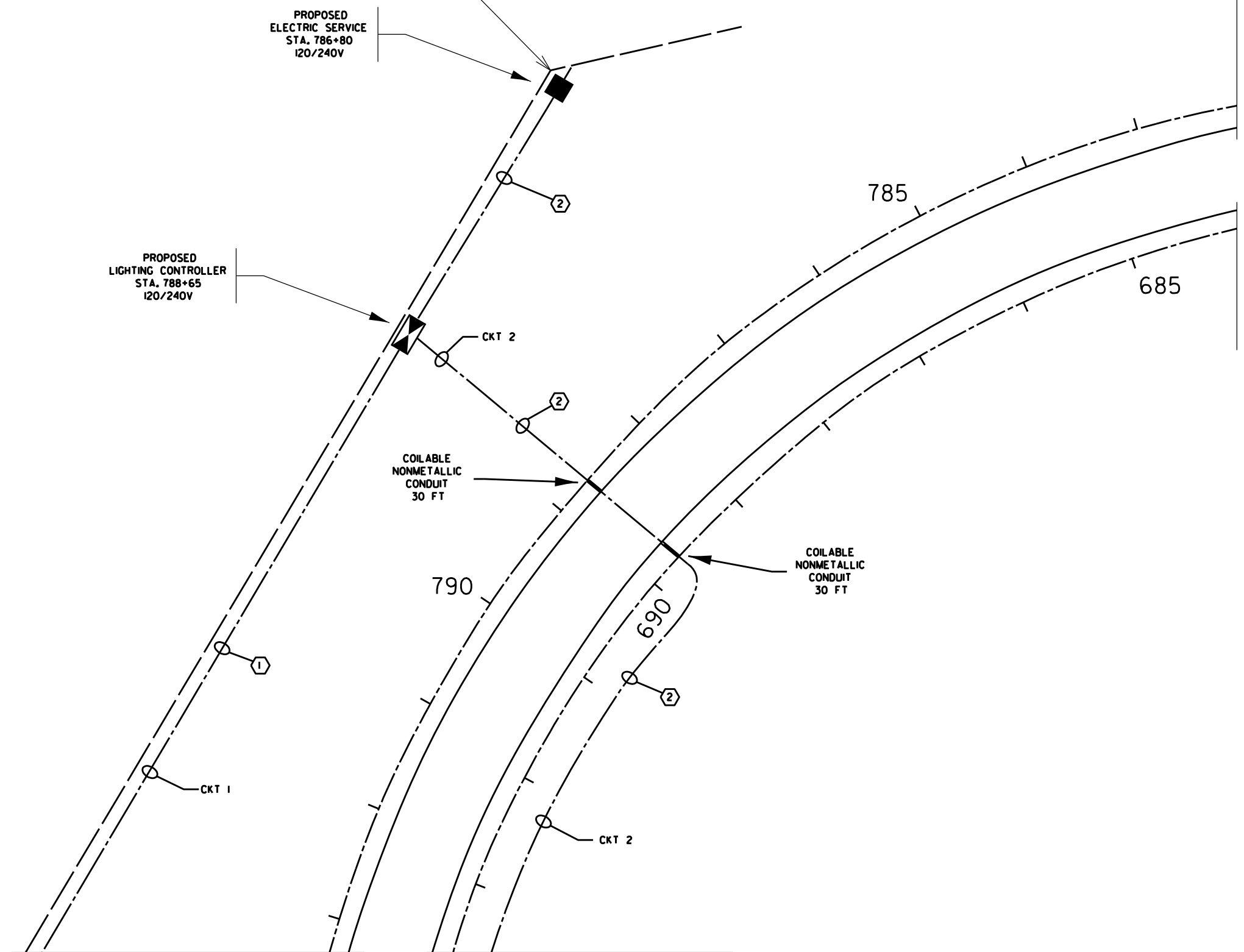
STA. 786+76 (OUTSIDE RAMP)  
OFFSET 275' (RT)

PROPOSED  
ELECTRIC SERVICE  
STA. 786+80  
120/240V

PROPOSED  
LIGHTING CONTROLLER  
STA. 788+65  
120/240V

MATCH LINE  
SHEET E15  
STA. 781+15

MATCH LINE  
SHEET E15  
STA. 684+15



MATCH LINE  
SHEET E11 - STA. 793+30

MATCH LINE  
SHEET E11 - STA. 693+60

**E14**

MODEL: M06E11M1M5  
FILE NAME: E14.DWG

|                       |                  |                 |
|-----------------------|------------------|-----------------|
| USER NAME = SUSERS    | DESIGNED - _____ | REVISED - _____ |
|                       | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 5/32"=1' | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = 5/24/2015 | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 at I-180  
LIGHTING PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------------|--------|--------------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 19        |
|                           |                 |        | CONTRACT NO. 66N01 |           |
| ILLINOIS FED. AID PROJECT |                 |        |                    |           |



MATCH LINE  
SHEET E14  
STA. 781+15

MATCH LINE  
SHEET E14  
STA. 684+15

780

680

675

775

STA. 774+84 (OUTSIDE RAMP)  
OFFSET 116' (RT)

770

MATCH LINE  
SHEET E12 - STA. 673+40

MATCH LINE  
SHEET E12 - STA. 768+15

**E15**

MODEL: MODEL\MAMES  
FILE NAME: 06E15

|                      |                  |                 |
|----------------------|------------------|-----------------|
| USER NAME = SUSERS   | DESIGNED - _____ | REVISED - _____ |
|                      | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 5SCALES | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = SDATES   | DATE - _____     | REVISED - _____ |

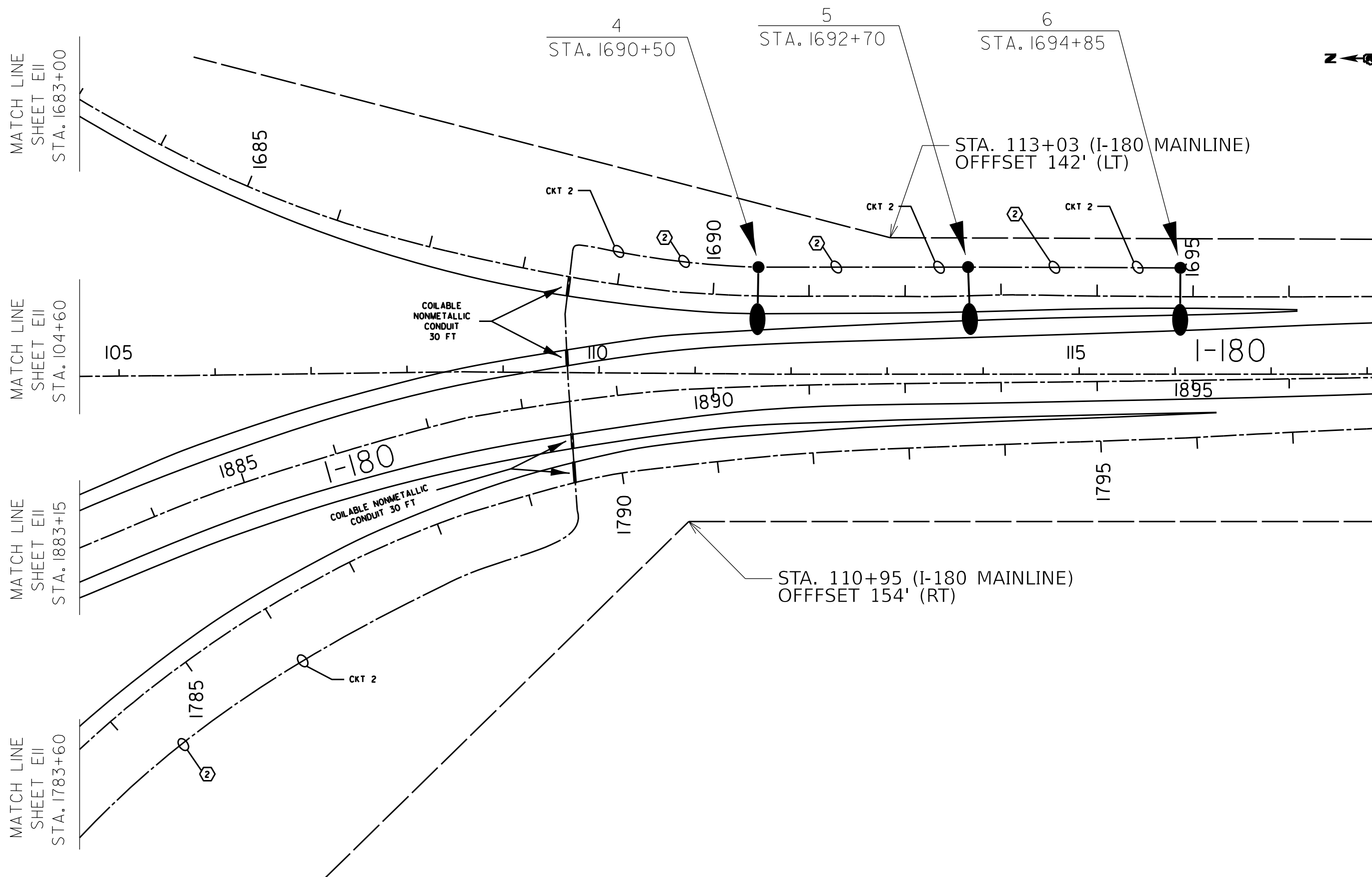
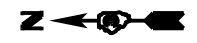
|                  |                 |
|------------------|-----------------|
| DESIGNED - _____ | REVISED - _____ |
| DRAWN - _____    | REVISED - _____ |
| CHECKED - _____  | REVISED - _____ |
| DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 at I-180  
LIGHTING PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------------|--------|--------------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 20        |
| ILLINOIS FED. AID PROJECT |                 |        | CONTRACT NO. 66N01 |           |



**E16**

MODEL: MODELNAME  
FILE NAME: FILENAME

|                      |                   |                   |
|----------------------|-------------------|-------------------|
| USER NAME = SUSERS   | DESIGNED - _____  | REVISED - _____   |
| DRAWN - _____        | REVISIONS - _____ | REVISIONS - _____ |
| PLOT SCALE = 5/8"=1' | CHECKED - _____   | REVISIONS - _____ |
| PLOT DATE = 5/20/15  | DATE - _____      | REVISIONS - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-80 at I-180  
LIGHTING PLANS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.I. RTE.               | SECTION         | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------------|--------|--------------------|-----------|
| 80                        | (06-6 & 06-1)HL | BUREAU | 21                 | 21        |
| ILLINOIS FED. AID PROJECT |                 |        | CONTRACT NO. 66N01 |           |