

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| F.A.P.<br>RTE | SECTION    | COUNTY     | TOTAL<br>SHEETS    | SHEET<br>NO. |
|---------------|------------|------------|--------------------|--------------|
| 331           | (1X-1)TS-6 | WILLIAMSON | 31                 | 1            |
|               |            | ILLINOIS   | CONTRACT NO. 78A33 |              |

FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEET NOS. 4-8

PROPOSED  
HIGHWAY PLANS

TRAFFIC DATA  
ADT: 27,200 %TRUCKS: 6.07%

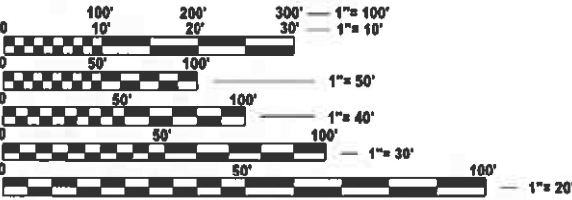
FAP 331 (IL 13)  
SECTION (1X-1)TS-6  
PROJECT HSIP-195Q(420)  
SIGNAL MODIFICATION/ADA RAMPS  
WILLIAMSON COUNTY

TOWNSHIPS  
MARION

PROJECT LOCATION  
IL 13/HALFWAY ROAD INTERSECTION

C-99-039-24

COORDINATE SYSTEM:  
NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FT  
POSTED SPEED : 55 MPH

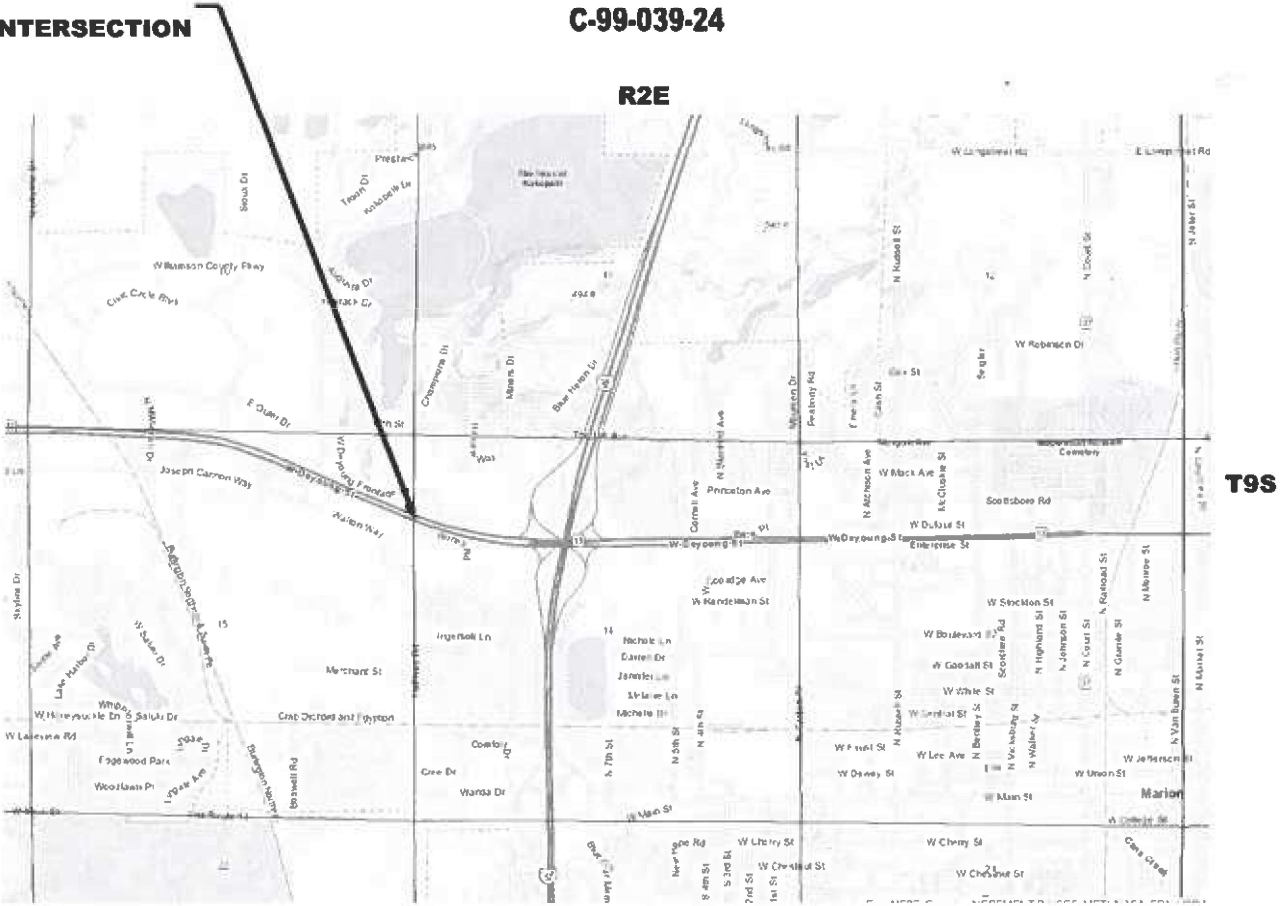


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER SEAN GREENLEE  
PROJECT DESIGNER CHRIS RUSSELL

CONTRACT NO. 78A33



GROSS LENGTH = 350.00 FT. = 0.066 MILE  
NET LENGTH = 350.00 FT. = 0.066 MILE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 17 2025  
Lina S. Remans  
REGIONAL ENGINEER

May 9 2025  
Sean A. Greenlee  
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 2025  
Chris Russell  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

MODEL: Default  
FILE NAME: C:\w\work\christopher.russell\09175730978A33-Shld-Cover-Sht.dgn

|                                 |            |           |
|---------------------------------|------------|-----------|
| USER NAME = christopher.russell | DESIGNED - | REVISED - |
|                                 | DRAWN -    | REVISED - |
|                                 | CHECKED -  | REVISED - |
| PLOT DATE = 3/11/2025           | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P.<br>RTE.            | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|------------|------------|-----------------|--------------|
| 331                       | (1X-1)TS-6 | WILLIAMSON | 31              | 2            |
| ILLINOIS FED. AID PROJECT |            |            |                 |              |

Prepared By: Susan R  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Lee  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Car M  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: ZCOO  
DISTRICT OPERATIONS ENGINEER

Examined By: \_\_\_\_\_  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Brenda Wells  
DISTRICT CONSTRUCTION ENGINEER

Examined By: Ann Hays  
DISTRICT MATERIALS ENGINEER



INDEX OF SHEETS

| SHEET NO | DESCRIPTION                                          |
|----------|------------------------------------------------------|
| 1        | COVER SHEET                                          |
| 2        | SIGNATURE SHEET                                      |
| 3        | INDEX OF SHEETS, HIGHWAY STANDARDS,<br>GENERAL NOTES |
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| 12       | REMOVAL                                              |
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HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 606001-08 CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
- 606301-04 PC CONCRETE ISLANDS & MEDIANS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15 FT AWAY
- 701006-05 OFF-ROADOPERATIONS, 2L, 2W, 15 FT TO 24 IN FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15 FT TO 24 IN FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN15 FT AWAY
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-10 TRAFFIC CONTROL DEVICES
- 720016-04 MAST ARM MOUNTED STREET NAME SIGNS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782001-01 CURB REFLECTORS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-03 HANDHOLES
- 821101-03 LUMINAIRE WIRING IN POLE
- 830001-03 LIGHT POLE ALUMINUM MAST ARM
- 836001-05 LIGHT POLE FOUNDATION
- 838001-01 BREAKAWAY DEVICES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 876001-04 PEDESTRIAN PUSH BUTTON POST
- 877012-07 STEEL COMB, MAST ARM ASSEMBLY & POLE 56' THROUGH 75'
- 878001-11 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

GENERAL NOTES

THE PROPOSED LIGHT POLE FOUNDATION SHALL BE FLUSH WITH FINAL SURFACE.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC OPERATIONS 72 HOURS PRIOR TO THE SHUT-DOWN OR CUTTING OF EXISTING DETECTOR LOOPS.

REV - MS

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|                                 |                       |           |                                                   |                                                     |       |    |                    |             |            |                            |              |
|---------------------------------|-----------------------|-----------|---------------------------------------------------|-----------------------------------------------------|-------|----|--------------------|-------------|------------|----------------------------|--------------|
| USER NAME = christopher.russell | DESIGNED -            | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS, GENERAL NOTES<br>HIGHWAY STANDARDS |       |    | F&P<br>RTE<br>303  | SECTION     | COUNTY     | TOTAL<br>SHEETS            | SHEET<br>NO. |
|                                 | DRAWN -               | REVISED - |                                                   |                                                     |       |    |                    | {1X-1} TS-6 | WILLIAMSON | 31                         | 3            |
|                                 | CHECKED -             | REVISED - |                                                   |                                                     |       |    | CONTRACT NO. 78A33 |             |            |                            |              |
|                                 | PLOT DATE = 3/13/2025 | DATE -    | REVISED -                                         | SCALE                                               | SHEET | OF | SHEETS             | STA.        | TO STA.    | ILLINOIS   FED AID PROJECT |              |

SUMMARY OF QUANTITIES

|                |                       |                               |                               |
|----------------|-----------------------|-------------------------------|-------------------------------|
| COUNTY:        | WILLIAMSON CO         | WILLIAMSON CO                 | WILLIAMSON CO                 |
| ROUTE:         | FAP 331               | FAP 331                       | FAP 331                       |
| FUNDING:       | 90% FEDERAL 10% STATE | 90% FEDERAL 5% STATE 5% LOCAL | 90% FEDERAL 5% STATE 5% LOCAL |
| LOCATION:      | URBAN                 | URBAN                         | URBAN                         |
| TOTAL QUANTITY | ROADWAY               | TRAFFIC SIGNALS               | LIGHTING                      |
|                | 0006                  | 0021                          | 0021                          |

| CODE NUMBER | ITEM DESCRIPTION                                  | UNIT   | TOTAL QUANTITY |       |  |  |
|-------------|---------------------------------------------------|--------|----------------|-------|--|--|
| 42400100    | PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH          | SQ FT  | 495            | 495   |  |  |
| 42400800    | DETECTABLE WARNINGS                               | SQ FT  | 112            | 112   |  |  |
| 44000100    | PAVEMENT REMOVAL                                  | SQ YD  | 850            | 850   |  |  |
| 44000500    | COMBINATION CURB AND GUTTER REMOVAL               | FOOT   | 26             | 26    |  |  |
| 44213204    | TIE BARS 3/4"                                     | EACH   | 150            | 150   |  |  |
| 60605000    | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | FOOT   | 26             | 26    |  |  |
| 60608600    | COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06 | FOOT   | 127            | 127   |  |  |
| 60610400    | COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 | FOOT   | 212            | 212   |  |  |
| 60618300    | CONCRETE MEDIAN SURFACE, 4 INCH                   | SQ FT  | 1,316          | 1,316 |  |  |
| 67000400    | ENGINEER'S FIELD OFFICE, TYPE A                   | CAL MO | 2              | 2     |  |  |
| 67100100    | MOBILIZATION                                      | L SUM  | 1              | 1     |  |  |
| 70102630    | TRAFFIC CONTROL AND PROTECTION, STANDARD 701601   | L SUM  | 1              | 1     |  |  |
| 70102635    | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701   | L SUM  | 1              | 1     |  |  |
| 70107025    | CHANGEABLE MESSAGE SIGN                           | CAL DA | 28             | 28    |  |  |

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SUMMARY OF QUANTITIES - CONT

| CODE<br>NUMBER | ITEM DESCRIPTION                              | UNIT  | TOTAL<br>QUANTITY | COUNTY:   | WILLIAMSON CO         | WILLIAMSON CO                 | WILLIAMSON CO                 |
|----------------|-----------------------------------------------|-------|-------------------|-----------|-----------------------|-------------------------------|-------------------------------|
|                |                                               |       |                   | ROUTE:    | FAP 331               | FAP 331                       | FAP 331                       |
|                |                                               |       |                   | FUNDING:  | 90% FEDERAL 10% STATE | 90% FEDERAL 5% STATE 5% LOCAL | 90% FEDERAL 5% STATE 5% LOCAL |
|                |                                               |       |                   | LOCATION: | URBAN                 | URBAN                         | URBAN                         |
|                |                                               |       |                   | ROADWAY   | TRAFFIC SIGNALS       |                               | LIGHTING                      |
|                |                                               |       |                   |           | 0006                  | 0021                          |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| 70200100       | NIGHTTIME WORK ZONE LIGHTING                  | L SUM | 1                 | 1         |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| 70300221       | TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT   | FOOT  | 1,000             | 1,000     |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| 70300261       | TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT  | FOOT  | 1,231             | 1,231     |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| 70300281       | TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT  | FOOT  | 150               | 150       |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 72000100     | SIGN PANEL - TYPE 1                           | SQ FT | 45                |           |                       | 45                            |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 72000200     | SIGN PANEL - TYPE 2                           | SQ FT | 25                |           |                       | 25                            |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 78009004     | MODIFIED URETHANE PAVEMENT MARKING - LINE 4"  | FOOT  | 1,000             | 1,000     |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 78009012     | MODIFIED URETHANE PAVEMENT MARKING - LINE 12" | FOOT  | 1,231             | 1,231     |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 78009024     | MODIFIED URETHANE PAVEMENT MARKING - LINE 24" | FOOT  | 150               | 150       |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 78011025     | GROOVING FOR RECESSED PAVEMENT MARKING 5"     | FOOT  | 1,000             | 1,000     |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 78011065     | GROOVING FOR RECESSED PAVEMENT MARKING 13"    | FOOT  | 1,231             | 1,231     |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| * 78011125     | GROOVING FOR RECESSED PAVEMENT MARKING 25"    | FOOT  | 150               | 150       |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| 78300201       | PAVEMENT MARKING REMOVAL - GRINDING           | SQ FT | 200               | 200       |                       |                               |                               |
|                |                                               |       |                   |           |                       |                               |                               |
| 80300100       | LOCATING UNDERGROUND CABLE                    | FOOT  | 100               |           |                       | 100                           |                               |
|                |                                               |       |                   |           |                       |                               |                               |

\* SPECIALTY ITEM

Model: Default  
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|            |                       |          |   |
|------------|-----------------------|----------|---|
| USER NAME  | = christopher,russell | DESIGNED | - |
|            |                       | DRAWN    | - |
| PLOT SCALE | = \$SCALE\$           | CHECKED  | - |
| PLOT DATE  | = 5/7/2025            | DATE     | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| SUMMARY OF QUANTITIES |       |         |        |
|-----------------------|-------|---------|--------|
| SCALE:                | SHEET | OF      | SHEETS |
| STA.                  |       | TO STA. |        |

|                    |             |                  |                 |              |
|--------------------|-------------|------------------|-----------------|--------------|
| F.A.P.<br>RTE.     | SECTION     | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
| 331                | (1X-1) TS-6 | WILLIAMSON       | 31              | 5            |
| CONTRACT NO. 78A33 |             |                  |                 |              |
| ILLINOIS           |             | FED. AID PROJECT |                 |              |

Model: Default  
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| SUMMARY OF QUANTITIES - CONT |                                                                                       |      | COUNTY:        | WILLIAMSON CO         | WILLIAMSON CO                 | WILLIAMSON CO                 |
|------------------------------|---------------------------------------------------------------------------------------|------|----------------|-----------------------|-------------------------------|-------------------------------|
|                              |                                                                                       |      | ROUTE:         | FAP 331               | FAP 331                       | FAP 331                       |
|                              |                                                                                       |      | FUNDING:       | 90% FEDERAL 10% STATE | 90% FEDERAL 5% STATE 5% LOCAL | 90% FEDERAL 5% STATE 5% LOCAL |
|                              |                                                                                       |      | LOCATION:      | URBAN                 | URBAN                         | URBAN                         |
| CODE NUMBER                  | ITEM DESCRIPTION                                                                      | UNIT | TOTAL QUANTITY | ROADWAY               | TRAFFIC SIGNALS               | LIGHTING                      |
|                              |                                                                                       |      |                | 0006                  | 0021                          | 0021                          |
|                              |                                                                                       |      |                |                       |                               |                               |
| 81028360                     | UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.                                                 | FOOT | 140            |                       | 140                           |                               |
|                              |                                                                                       |      |                |                       |                               |                               |
| 81028390                     | UNDERGROUND CONDUIT, PVC, 4" DIA.                                                     | FOOT | 895            |                       | 895                           |                               |
|                              |                                                                                       |      |                |                       |                               |                               |
| 81028750                     | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.                            | FOOT | 55             |                       |                               | 55                            |
|                              |                                                                                       |      |                |                       |                               |                               |
| 81400100                     | HANDHOLE                                                                              | EACH | 5              |                       | 5                             |                               |
|                              |                                                                                       |      |                |                       |                               |                               |
| 81603010                     | UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE | FOOT | 105            |                       |                               | 105                           |
|                              |                                                                                       |      |                |                       |                               |                               |
| 81702110                     | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10                             | FOOT | 2,805          |                       |                               | 2,805                         |
|                              |                                                                                       |      |                |                       |                               |                               |
| 82110009                     | LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I                                         | EACH | 10             |                       |                               | 10                            |
|                              |                                                                                       |      |                |                       |                               |                               |
| 83009600                     | LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM                                    | EACH | 2              |                       |                               | 2                             |
|                              |                                                                                       |      |                |                       |                               |                               |
| 83600356                     | LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6"                            | EACH | 2              |                       |                               | 2                             |
|                              |                                                                                       |      |                |                       |                               |                               |
| 83800650                     | BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN                                | EACH | 8              |                       |                               | 8                             |
|                              |                                                                                       |      |                |                       |                               |                               |
| 84200600                     | REMOVAL OF LIGHTING UNIT, NO SALVAGE                                                  | EACH | 1              |                       |                               | 1                             |
|                              |                                                                                       |      |                |                       |                               |                               |
| 84200804                     | REMOVAL OF POLE FOUNDATION                                                            | EACH | 1              |                       |                               | 1                             |
|                              |                                                                                       |      |                |                       |                               |                               |
| 85700300                     | FULL-ACTUATED CONTROLLER AND TYPE V CABINET                                           | EACH | 1              |                       | 1                             |                               |
|                              |                                                                                       |      |                |                       |                               |                               |
| 86200300                     | UNINTERRUPTABLE POWER SUPPLY, EXTENDED                                                | EACH | 1              |                       | 1                             |                               |
|                              |                                                                                       |      |                |                       |                               |                               |

|                                 |            |           |
|---------------------------------|------------|-----------|
| USER NAME = christopher,russell | DESIGNED - | REVISED - |
|                                 | DRAWN -    | REVISED - |
| PLOT SCALE = \$SCALE\$          | CHECKED -  | REVISED - |
| PLOT DATE = 5/7/2025            | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.        | SECTION     | COUNTY     | TOTAL SHEETS     | SHEET NO. |
|--------------------|-------------|------------|------------------|-----------|
| 331                | (1X-1) TS-6 | WILLIAMSON | 31               | 6         |
| CONTRACT NO. 78A33 |             |            |                  |           |
|                    |             | ILLINOIS   | FED. AID PROJECT |           |



SUMMARY OF QUANTITIES - CONT

| CODE<br>NUMBER | ITEM DESCRIPTION                                                   | UNIT | TOTAL<br>QUANTITY | COUNTY:   | WILLIAMSON CO         | WILLIAMSON CO                 | WILLIAMSON CO                 |
|----------------|--------------------------------------------------------------------|------|-------------------|-----------|-----------------------|-------------------------------|-------------------------------|
|                |                                                                    |      |                   | ROUTE:    | FAP 331               | FAP 331                       | FAP 331                       |
|                |                                                                    |      |                   | FUNDING:  | 90% FEDERAL 10% STATE | 90% FEDERAL 5% STATE 5% LOCAL | 90% FEDERAL 5% STATE 5% LOCAL |
|                |                                                                    |      |                   | LOCATION: | URBAN                 | URBAN                         | URBAN                         |
|                |                                                                    |      |                   | ROADWAY   | TRAFFIC SIGNALS       |                               | LIGHTING                      |
|                |                                                                    |      |                   |           | 0006                  | 0021                          | 0021                          |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87301225       | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                        | FOOT | 65                |           |                       | 65                            |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87301245       | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                        | FOOT | 1,107             |           |                       | 1,107                         |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87301900       | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 1,110             |           |                       | 1,110                         |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87502460       | TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.                       | EACH | 6                 |           |                       | 6                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87502480       | TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                       | EACH | 1                 |           |                       | 1                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87601100       | PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I              | EACH | 1                 |           |                       | 1                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87703070       | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.                | EACH | 1                 |           |                       | 1                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87703090       | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 70 FT.                | EACH | 1                 |           |                       | 1                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87703120       | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 75 FT.                | EACH | 2                 |           |                       | 2                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87800100       | CONCRETE FOUNDATION, TYPE A                                        | FOOT | 21                |           |                       | 21                            |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87800150       | CONCRETE FOUNDATION, TYPE C                                        | FOOT | 4                 |           |                       | 4                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87800420       | CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER                       | FOOT | 100               |           |                       | 100                           |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 87900200       | DRILL EXISTING HANDHOLE                                            | EACH | 4                 |           |                       | 4                             |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |
| 88030020       | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED              | EACH | 20                |           |                       | 20                            |                               |
|                |                                                                    |      |                   |           |                       |                               |                               |

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|                                 |            |           |
|---------------------------------|------------|-----------|
| USER NAME = christopher,russell | DESIGNED - | REVISED - |
|                                 | DRAWN -    | REVISED - |
| PLOT SCALE = \$SCALE\$          | CHECKED -  | REVISED - |
| PLOT DATE = 5/7/2025            | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| SUMMARY OF QUANTITIES |       |         |        |
|-----------------------|-------|---------|--------|
| SCALE:                | SHEET | OF      | SHEETS |
| STA.                  |       | TO STA. |        |

|                    |             |            |                  |           |
|--------------------|-------------|------------|------------------|-----------|
| F.A.P. RTE.        | SECTION     | COUNTY     | TOTAL SHEETS     | SHEET NO. |
| 331                | (1X-1) TS-6 | WILLIAMSON | 31               | 7         |
| CONTRACT NO. 78A33 |             |            |                  |           |
|                    |             | ILLINOIS   | FED. AID PROJECT |           |

## SUMMARY OF QUANTITIES - CONT

|                   |                       |                               |                               |
|-------------------|-----------------------|-------------------------------|-------------------------------|
| COUNTY:           | WILLIAMSON CO         | WILLIAMSON CO                 | WILLIAMSON CO                 |
| ROUTE:            | FAP 331               | FAP 331                       | FAP 331                       |
| FUNDING:          | 90% FEDERAL 10% STATE | 90% FEDERAL 5% STATE 5% LOCAL | 90% FEDERAL 5% STATE 5% LOCAL |
| LOCATION:         | URBAN                 | URBAN                         | URBAN                         |
| TOTAL<br>QUANTITY | ROADWAY               | TRAFFIC SIGNALS               | LIGHTING                      |
|                   | 0006                  | 0021                          | 0021                          |

| CODE<br>NUMBER | ITEM DESCRIPTION                                                          | UNIT  | TOTAL<br>QUANTITY | ROADWAY | TRAFFIC SIGNALS | LIGHTING |
|----------------|---------------------------------------------------------------------------|-------|-------------------|---------|-----------------|----------|
|                |                                                                           |       |                   | 0006    | 0021            | 0021     |
|                |                                                                           |       |                   |         |                 |          |
| 88030050       | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH  | 11                |         | 11              |          |
|                |                                                                           |       |                   |         |                 |          |
| 88102717       | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH  | 1                 |         | 1               |          |
|                |                                                                           |       |                   |         |                 |          |
| 88102719       | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED WITH COUNTDOWN TIMER    | EACH  | 5                 |         | 5               |          |
|                |                                                                           |       |                   |         |                 |          |
| 88102747       | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH  | 2                 |         | 2               |          |
|                |                                                                           |       |                   |         |                 |          |
| 88200510       | TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE                                 | EACH  | 31                |         | 31              |          |
|                |                                                                           |       |                   |         |                 |          |
| 88800100       | PEDESTRIAN PUSH-BUTTON                                                    | EACH  | 10                |         | 10              |          |
|                |                                                                           |       |                   |         |                 |          |
| 89501250       | RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT                                | EACH  | 1                 |         | 1               |          |
|                |                                                                           |       |                   |         |                 |          |
| 89502375       | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH  | 1                 |         | 1               |          |
|                |                                                                           |       |                   |         |                 |          |
| XP000179       | GROUND ROD, 8', COPPER CLAD                                               | EACH  | 8                 |         | 8               |          |
|                |                                                                           |       |                   |         |                 |          |
| X1400267       | REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE                                 | EACH  | 4                 |         |                 | 4        |
|                |                                                                           |       |                   |         |                 |          |
| X4402805       | ISLAND REMOVAL                                                            | SQ FT | 1,638             | 1,638   |                 |          |
|                |                                                                           |       |                   |         |                 |          |
| X8250091       | COMBINATION LIGHTING CONTROLLER                                           | EACH  | 1                 |         |                 | 1        |
|                |                                                                           |       |                   |         |                 |          |
| X8760200       | ACCESSIBLE PEDESTRIAN SIGNALS                                             | EACH  | 10                |         | 10              |          |
|                |                                                                           |       |                   |         |                 |          |
| Z0013798       | CONSTRUCTION LAYOUT                                                       | L SUM | 1                 | 1       |                 |          |
|                |                                                                           |       |                   |         |                 |          |

CONSTRUCTION SCHEDULE

| LOCATION<br>STATION TO STATION                 | COMBINATION<br>CONCRETE CURB<br>AND GUTTER,<br>TYPE M-6.06 | COMBINATION<br>CONCRETE CURB<br>AND GUTTER,<br>TYPE M-6.24 | COMBINATION<br>CONCRETE CURB<br>AND GUTTER,<br>TYPE B-6.24 | PORTLAND CEMENT<br>CONCRETE<br>SIDEWALK 4 INCH | DETECTABLE<br>WARNINGS | CONCRETE MEDIAN<br>SURFACE, 4 INCH | SUB BASE<br>GRANULAR<br>MATERIAL,<br>TYPE A, 12" | COMMENTS        |
|------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------|------------------------|------------------------------------|--------------------------------------------------|-----------------|
|                                                | FOOT                                                       | FOOT                                                       | FOOT                                                       | SQ FT                                          | SQ FT                  | SQ FT                              | SQ YD                                            |                 |
| IL 13/NW QUADRANT                              |                                                            |                                                            |                                                            |                                                |                        |                                    |                                                  |                 |
| STA 791+24.3(IL13) TO STA 791+79(IL13)         | 30                                                         | 62                                                         |                                                            | 60                                             | 22                     | 320                                | 62                                               | PROPOSED ISLAND |
| STA 409+24.5(HALFWAY) TO STA 409+28.5(HALFWAY) |                                                            |                                                            | 8                                                          | 40                                             | 15                     |                                    | 3                                                | ADA RAMP        |
| IL 13/NE QUADRANT                              |                                                            |                                                            |                                                            |                                                |                        |                                    |                                                  |                 |
| STA 791+24.3(IL13) TO STA 793+55(IL13)         | 62                                                         | 80                                                         |                                                            | 215                                            | 30                     | 360                                | 93                                               | PROPOSED ISLAND |
| STA 408+79.5(HALFWAY) TO STA 408+86(HALFWAY)   |                                                            |                                                            | 8                                                          | 40                                             | 10                     |                                    | 3                                                | ADA RAMP        |
| IL 13/SW QUADRANT                              |                                                            |                                                            |                                                            |                                                |                        |                                    |                                                  |                 |
| STA 791+50(IL13) TO STA 792+21(IL13)           |                                                            |                                                            |                                                            |                                                |                        | 310                                | 34                                               | MEDIAN SURFACE  |
| IL 13/SE QUADRANT                              |                                                            |                                                            |                                                            |                                                |                        |                                    |                                                  |                 |
| STA 792+83.5(IL13) TO STA 792+29(IL13)         | 35                                                         | 70                                                         |                                                            | 100                                            | 20                     | 326                                | 70                                               | PROPOSED ISLAND |
| STA 406+72(HALFWAY) TO STA 406+76(HALFWAY)     |                                                            |                                                            | 10                                                         | 40                                             | 15                     |                                    | 3                                                | ADA RAMP        |
|                                                |                                                            |                                                            |                                                            |                                                |                        |                                    |                                                  |                 |
| TOTAL                                          | 127                                                        | 212                                                        | 26                                                         | 495                                            | 112                    | 1,316                              | 268                                              |                 |

REMOVAL SCHEDULE

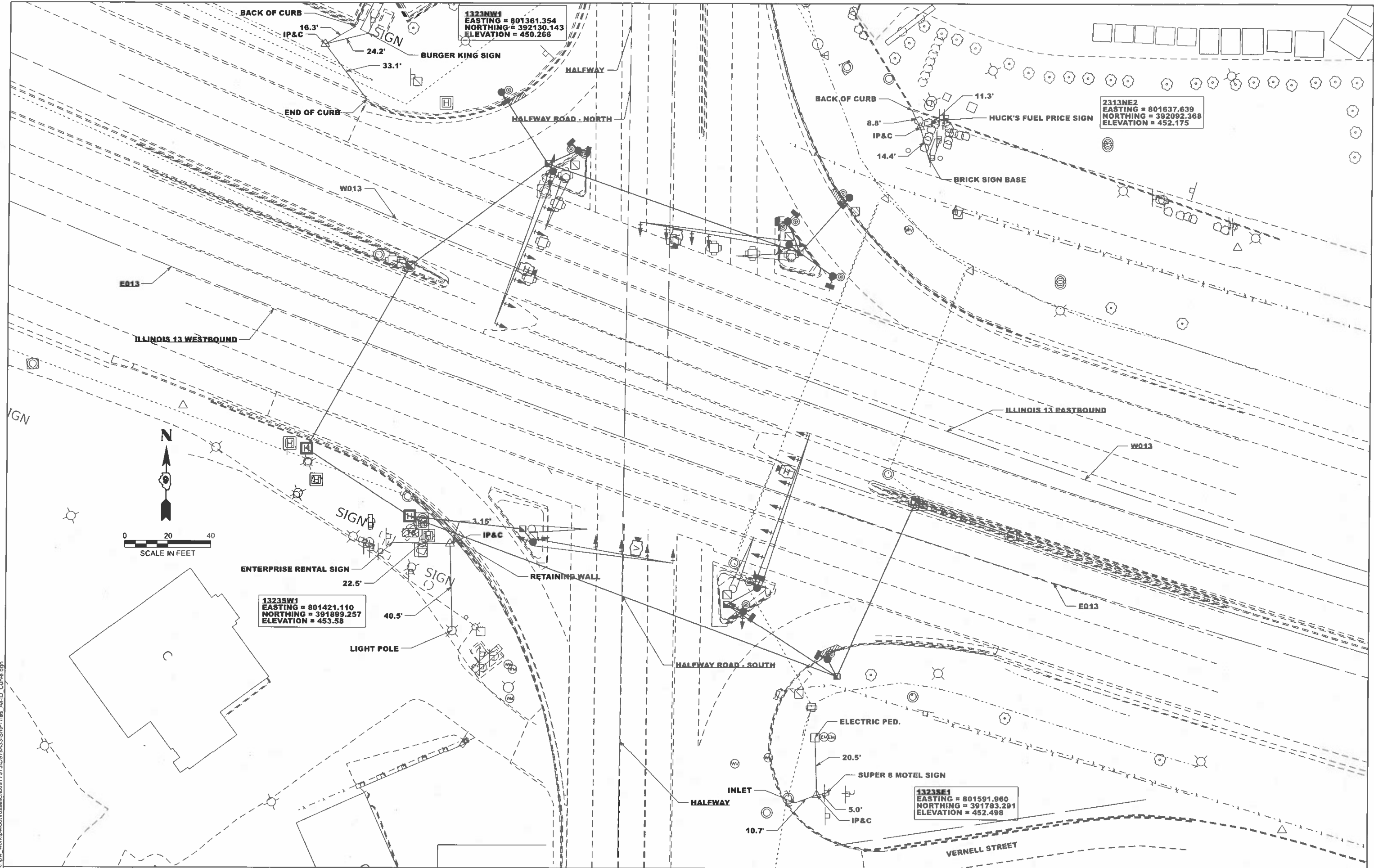
| LOCATION<br>STATION TO STATION                 | COMBINATION<br>CURB AND<br>GUTTER REMOVAL | ISLAND<br>REMOVAL | PAVEMENT<br>REMOVAL | COMMENTS                    |
|------------------------------------------------|-------------------------------------------|-------------------|---------------------|-----------------------------|
|                                                | FOOT                                      | SQ FT             | SQ FT               |                             |
| IL 13/NW QUADRANT                              |                                           |                   |                     |                             |
| STA 791+24.3(IL13) TO STA 791+79(IL13)         |                                           | 428               | 255                 | REMOVAL FOR PROPOSED ISLAND |
| STA 409+24.5(HALFWAY) TO STA 409+28.5(HALFWAY) | 8                                         |                   |                     | REMOVAL FOR ADA RAMP        |
| IL 13/NE QUADRANT                              |                                           |                   |                     |                             |
| STA 791+24.3(IL13) TO STA 793+55(IL13)         |                                           | 475               | 475                 | REMOVAL FOR PROPOSED ISLAND |
| STA 408+79.5(HALFWAY) TO STA 408+86(HALFWAY)   | 8                                         |                   |                     | REMOVAL FOR ADA RAMP        |
| IL 13/SW QUADRANT                              |                                           |                   |                     |                             |
| STA 791+50(IL13) TO STA 792+21(IL13)           |                                           | 215               |                     | MEDIAN SURFACE              |
| IL 13/SE QUADRANT                              |                                           |                   |                     |                             |
| STA 792+83.5(IL13) TO STA 792+29(IL13)         |                                           | 520               | 120                 | REMOVAL FOR PROPOSED ISLAND |
| STA 406+72(HALFWAY) TO STA 406+76(HALFWAY)     | 10                                        |                   |                     | REMOVAL FOR ADA RAMP        |
|                                                |                                           |                   |                     |                             |
| TOTAL                                          | 26                                        | 1,638             | 850                 |                             |

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MODEL: Default  
FILE NAME: c:\pw\work\pavdotrusse\cud0917573\0978A33-ShIE-Schedules.dgn

| PCC PAVEMENT MARKING SCHEDULE             |                 |          |         |                                          |                                          |                                         |                              |
|-------------------------------------------|-----------------|----------|---------|------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|
| LOCATION<br>STATION TO STATION            | POLYUREA TYPE 2 |          |         | PAVEMENT<br>MARKING<br>GROOVING<br>- 25" | PAVEMENT<br>MARKING<br>GROOVING<br>- 13" | PAVEMENT<br>MARKING<br>GROOVING -<br>5" | COMMENTS                     |
|                                           | LINE-24"        | LINE-12" | LINE-4" |                                          |                                          |                                         |                              |
|                                           | WHITE           | WHITE    | WHITE   |                                          |                                          |                                         |                              |
|                                           | SOLID           | SOLID    | SOLID   |                                          |                                          |                                         |                              |
|                                           | FOOT            | FOOT     | FOOT    | FOOT                                     | FOOT                                     | FOOT                                    |                              |
| IL 13/NW QUADRANT                         |                 |          |         |                                          |                                          |                                         |                              |
| STA 790+84.5(IL13) TO STA 409+65(HALFWAY) |                 | 55       | 125     |                                          | 55                                       | 125                                     |                              |
| STA 791+40(IL13)                          |                 | 60       |         |                                          | 60                                       |                                         | RIGHT TURN CROSSWALK         |
| STA 791+47(IL13)                          | 18              |          |         | 18                                       |                                          |                                         | STOPBAR                      |
| STA 791+24.3(IL13) TO STA 791+79(IL13)    |                 | 55       | 130     |                                          | 55                                       | 130                                     | ISLAND                       |
| STA 791+89(IL13)                          | 36              |          |         | 36                                       |                                          |                                         | HALFWAY RD STOPBARS          |
| STA 792+13 (IL13)                         | 12              |          |         | 12                                       |                                          |                                         | HALFWAY RD LEFT TURN STOPBAR |
| STA 792+18                                |                 | 180      |         |                                          | 180                                      |                                         | HALFWAY RD CROSSWALK         |
| IL 13/NE QUADRANT                         |                 |          |         |                                          |                                          |                                         |                              |
| STA 791+24.3(IL13) TO STA 793+55(IL13)    |                 | 110      | 160     |                                          | 110                                      | 160                                     | ISLAND                       |
| STA 792+80                                |                 | 30       |         |                                          | 30                                       |                                         | RIGHT TURN CROSSWALK         |
| STA 792+86                                | 18              |          |         | 18                                       |                                          |                                         | RIGHT TURN STOPBAR           |
| STA 793+00(IL 13WB)                       |                 | 360      |         |                                          | 360                                      |                                         | IL 13 CROSSWALK              |
| STA 793+00(IL 13WB)                       | 48              |          |         | 48                                       |                                          |                                         | IL 13 STOPBARS               |
| IL 13/SW QUADRANT                         |                 |          |         |                                          |                                          |                                         |                              |
| STA 791+50(IL13) TO STA 792+21(IL13)      |                 | 110      | 260     |                                          | 110                                      | 260                                     | ISLAND                       |
| IL 13/SE QUADRANT                         |                 |          |         |                                          |                                          |                                         |                              |
| STA 792+83.5(IL13) TO STA 792+29(IL13)    |                 | 100      | 175     |                                          | 100                                      | 175                                     | ISLAND                       |
| STA 793+25 (IL13)                         | 18              |          |         | 18                                       |                                          |                                         | RIGHT TURN STOPBAR           |
| STA 793+35(IL13)                          |                 | 66       |         |                                          | 66                                       |                                         | RIGHT TURN CROSSWALK         |
| STA 406+50(HALFWAY) TO STA 793+73.3(IL13) |                 | 105      | 150     |                                          | 105                                      | 150                                     |                              |
|                                           |                 |          |         |                                          |                                          |                                         |                              |
|                                           |                 |          |         |                                          |                                          |                                         |                              |
|                                           |                 |          |         |                                          |                                          |                                         |                              |
| TOTAL                                     | 150             | 1,231    | 1,000   | 150                                      | 1,231                                    | 1,000                                   |                              |

|  |                                   |              |             |                                                   |                          |       |    |        |      |                    |             |            |                 |              |
|--|-----------------------------------|--------------|-------------|---------------------------------------------------|--------------------------|-------|----|--------|------|--------------------|-------------|------------|-----------------|--------------|
|  | USER NAME   = christopher.russell | DESIGNED   - | REVISED   - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SCHEDULES                |       |    |        |      | F.A.P.<br>RTE.     | SECTION     | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|  |                                   | DRAWN    -   | REVISED   - |                                                   |                          |       |    |        |      | 331                | (IX-1) TS-6 | WILLIAMSON | 31              | 10           |
|  | PLOT DATE   = 3/11/2025           | CHECKED   -  | REVISED   - |                                                   |                          |       |    |        |      | CONTRACT NO. 78A33 |             |            |                 |              |
|  |                                   | DATE       - | REVISED   - |                                                   | ILLINOIS FED AID PROJECT |       |    |        |      |                    |             |            |                 |              |
|  |                                   |              |             |                                                   | SCALE:                   | SHEET | OF | SHEETS | STA. | TO STA.            |             |            |                 |              |



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|           |                       |          |   |         |   |
|-----------|-----------------------|----------|---|---------|---|
| USER NAME | = christopher.russell | DESIGNED | - | REVISED | - |
|           |                       | DRAWN    | - | REVISED | - |
|           |                       | CHECKED  | - | REVISED | - |
| PLOT DATE | = 3/15/2025           | DATE     | - | REVISED | - |

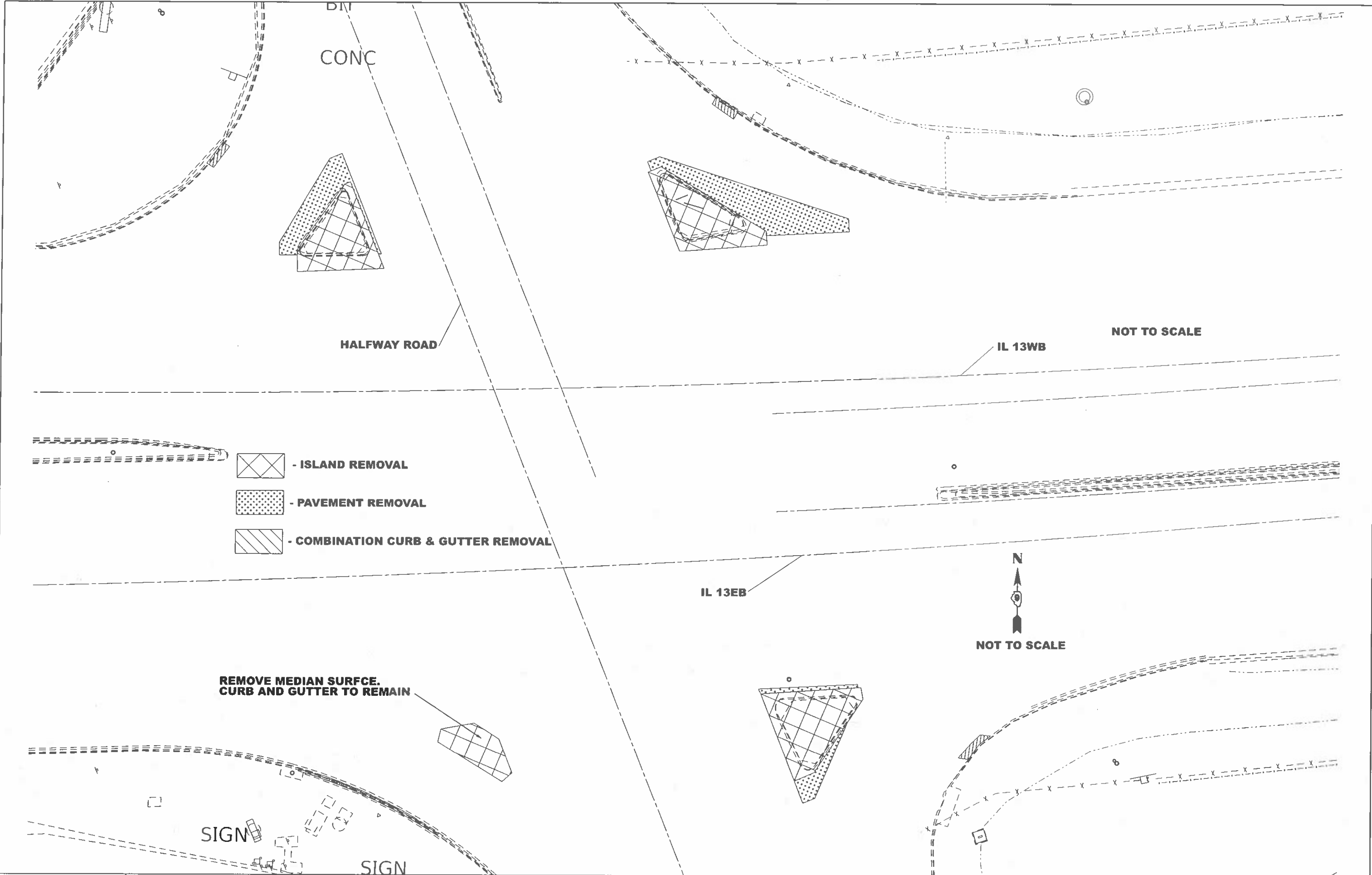
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TIE POINTS, ALIGNMENTS

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |             |            |                 |              |
|---------------------------|-------------|------------|-----------------|--------------|
| F.A.P.<br>RTE.            | SECTION     | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
| 331                       | (1X-1) TS-6 | WILLIAMSON | 31              | 11           |
| CONTRACT NO. 78A33        |             |            |                 |              |
| ILLINOIS FED. AID PROJECT |             |            |                 |              |

MODEL: Unnamed Plan - Plan 2 (Sheet)  
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|            |                     |          |  |         |  |
|------------|---------------------|----------|--|---------|--|
| USER NAME  | christopher russell | DESIGNED |  | REVISED |  |
|            |                     | DRAWN    |  | REVISED |  |
| PLOT SCALE | 1"=50'              | CHECKED  |  | REVISED |  |
| PLOT DATE  | 3/17/2025           | DATE     |  | REVISED |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

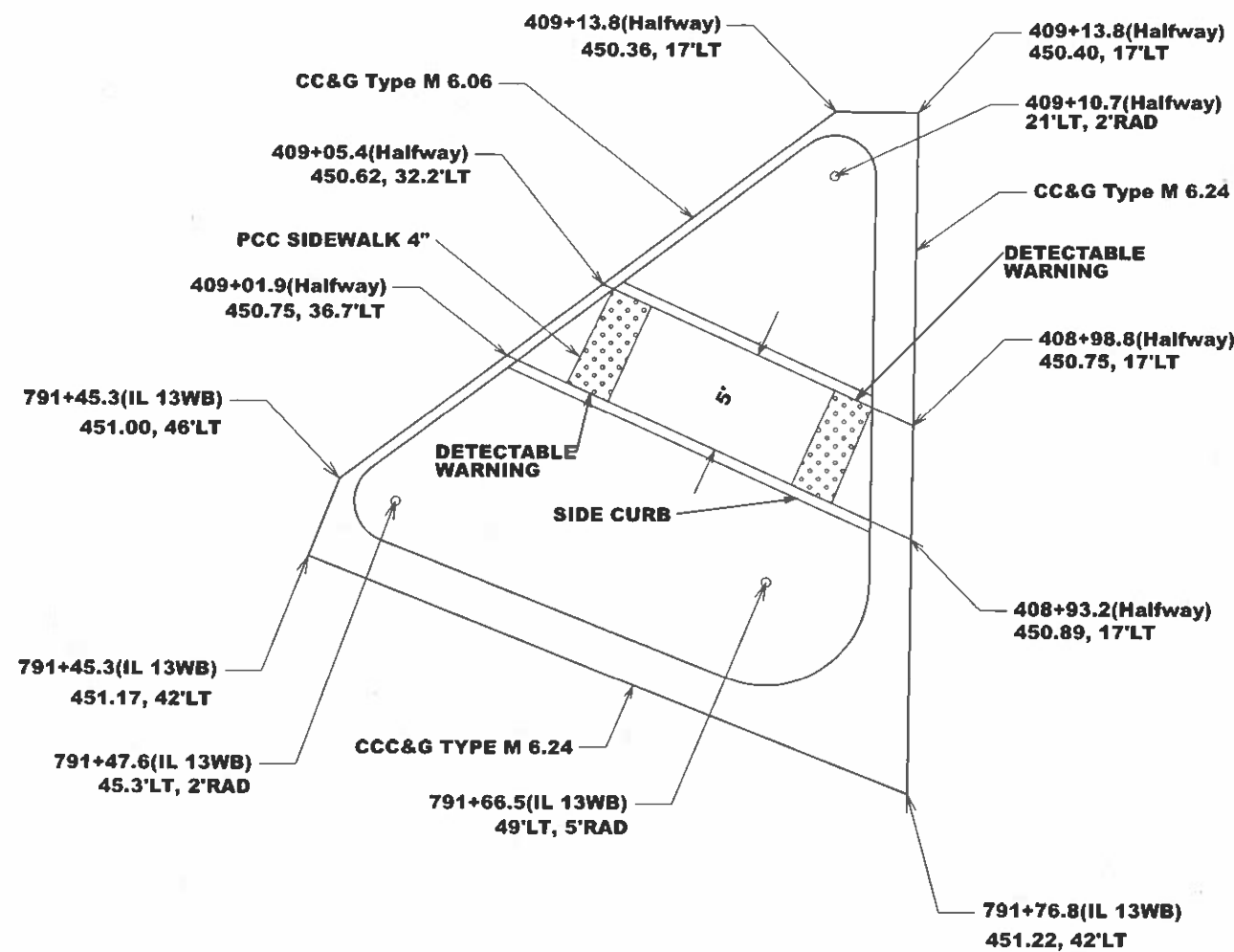
REMOVAL SHEET

SCALE: 1"=160' SHEET 000 OF SHEETS STA. TO STA.

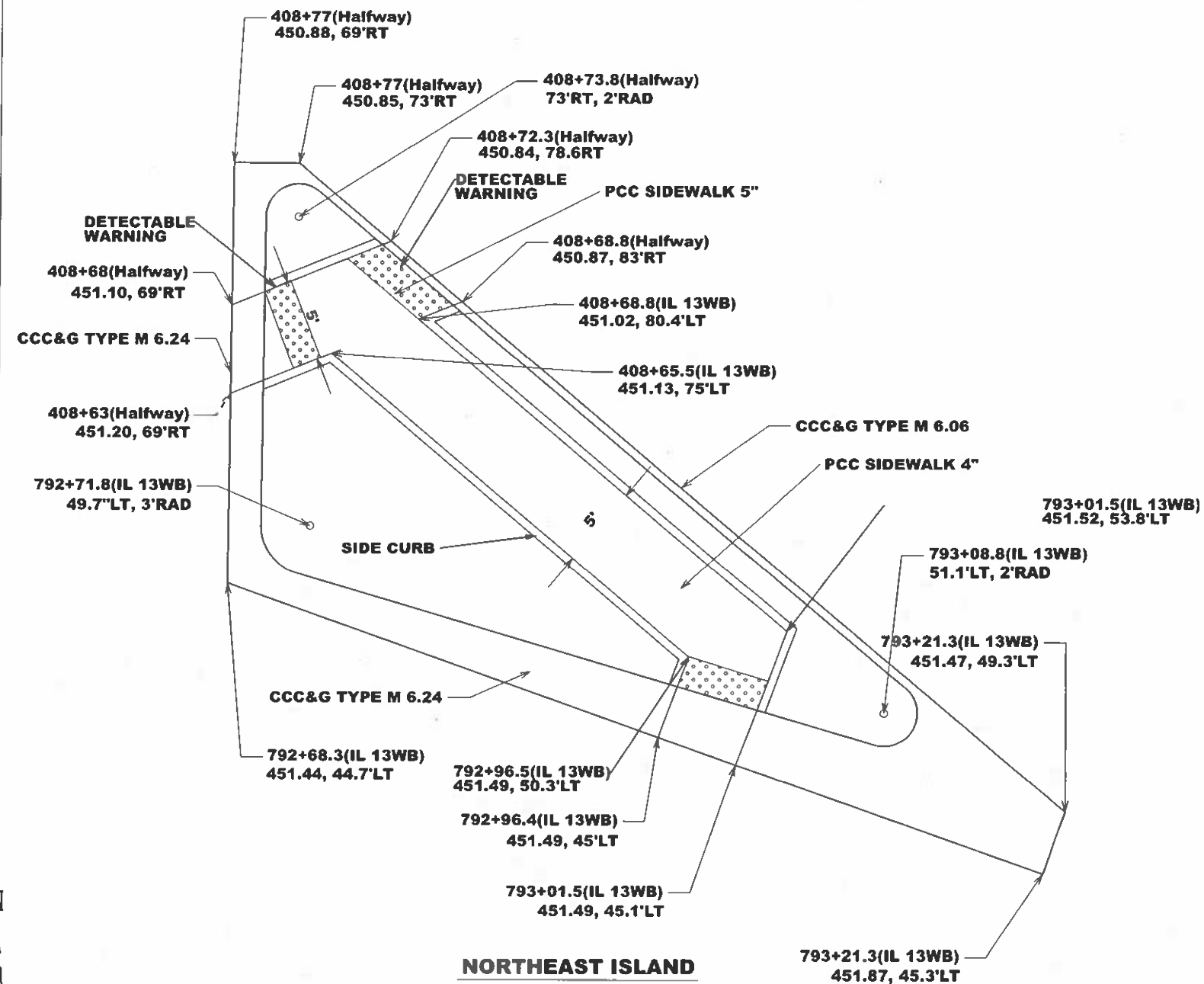
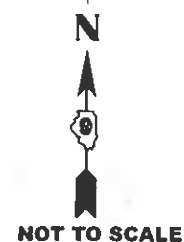
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|--------------------------|------------|------------|-----------------|--------------|
| F.A.P.<br>RTE.           | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
| 331                      | (1X-1)TS-6 | WILLIAMSON | 31              | 12           |
| CONTRACT NO. 78A33       |            |            |                 |              |
| ILLINOIS FED AID PROJECT |            |            |                 |              |



MODEL: Default  
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**NORTHWEST ISLAND**



**NORTHEAST ISLAND**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

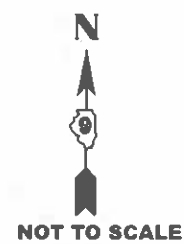
GEOMETRICS

| F&P<br>RTE.              | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------------|------------|------------|-----------------|--------------|
| 331                      | (1X-1)TS-6 | WILLIAMSON | 31              | 13           |
| CONTRACT NO. 78A33       |            |            |                 |              |
| ILLINOIS FED AID PROJECT |            |            |                 |              |

SCALE: SHEET OF SHEETS STA. TO STA.



MODEL: Default

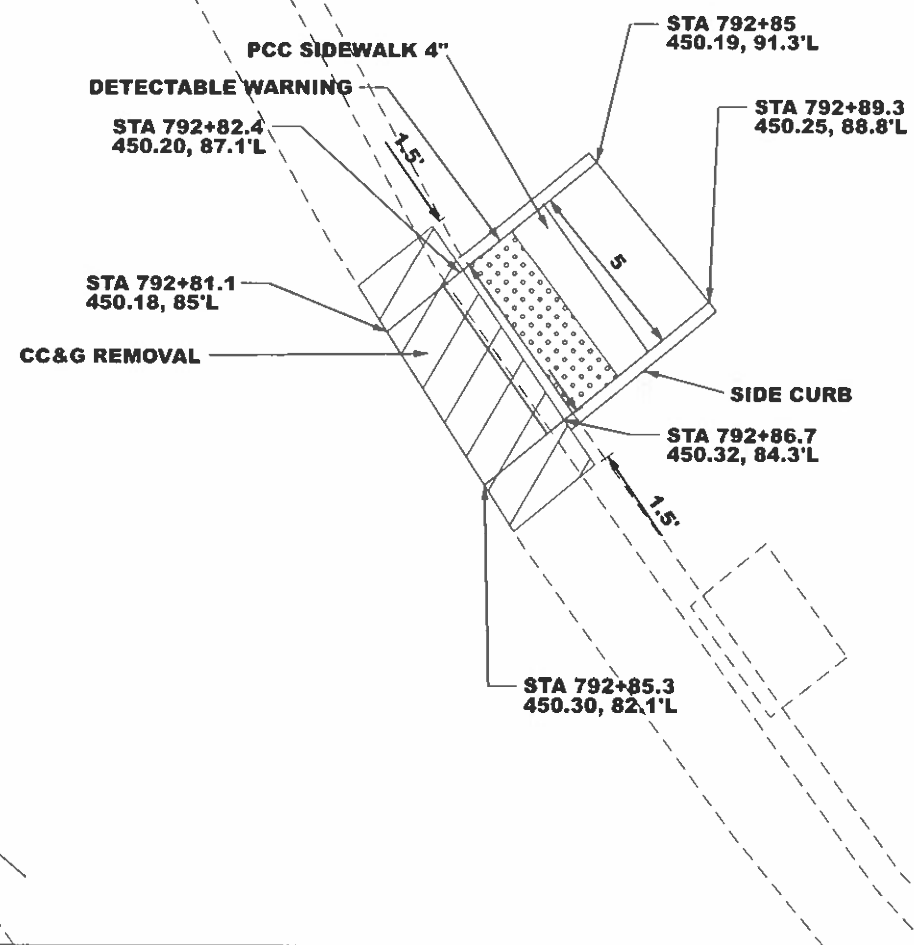


**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

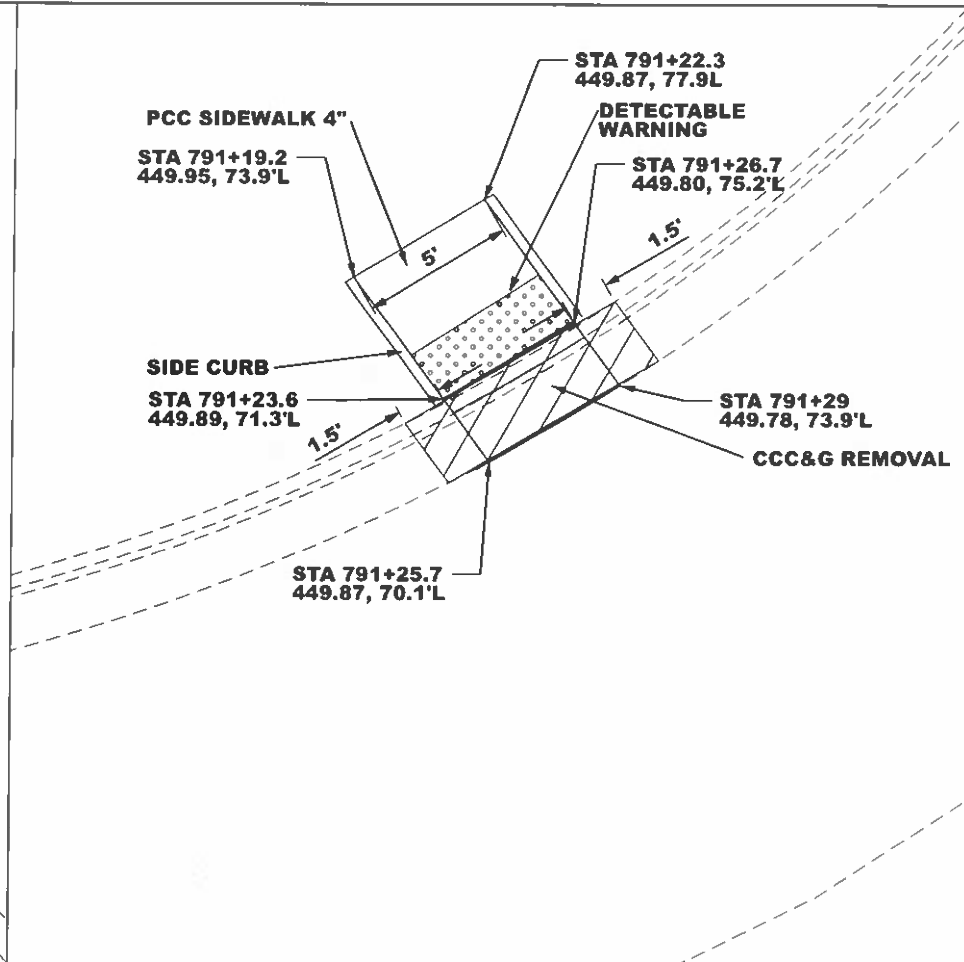
## GEOMETRICS

|                    |              |           |
|--------------------|--------------|-----------|
| COUNTY             | TOTAL SHEETS | SHEET NO. |
| WILLIAMSON         | 31           | 14        |
| CONTRACT NO. 78A33 |              |           |
| PROJECT            |              |           |

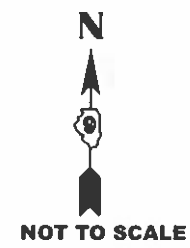
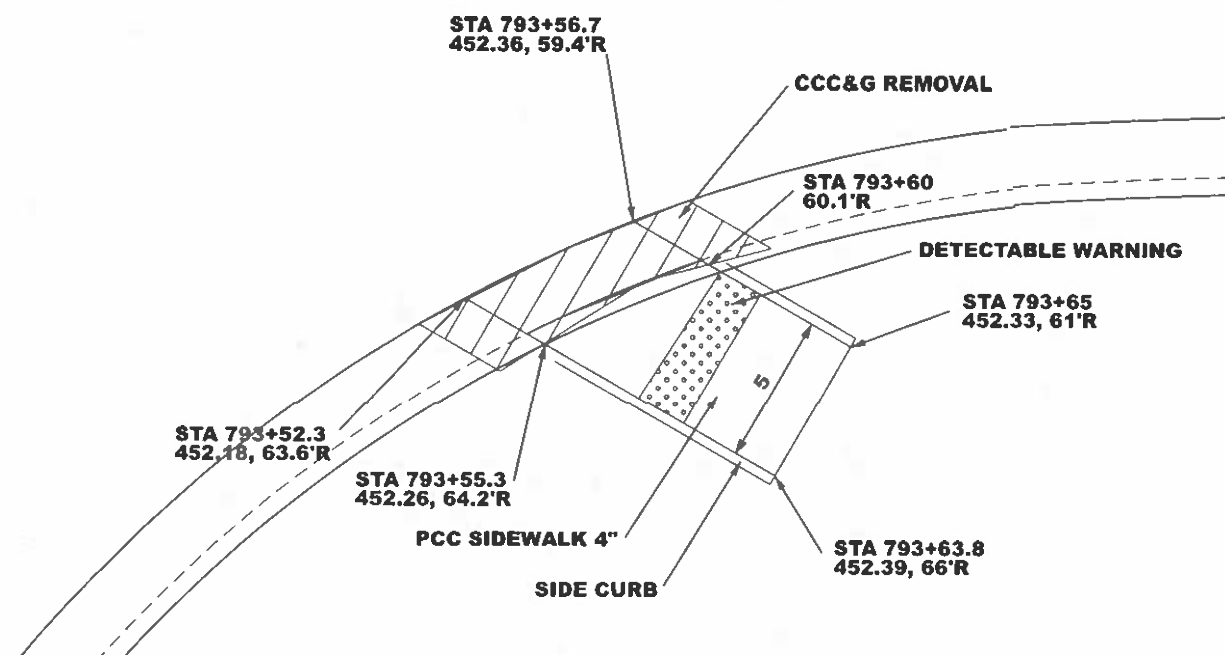
NORTHEAST QUADRANT  
ALL STATIONS AND OFFSETS  
FROM IL13 WB



NORTHWEST QUADRANT  
ALL STATIONS AND OFFSETS  
FROM IL13 WB



SOUTHEAST QUADRANT  
ALL STATIONS AND OFFSETS  
FROM IL13 EB



MODEL: Default  
FILE NAME: c:\pwwork\pwwork\grainleam\0817573\0878A33-Shl-IntersectionDetail.dgn

|           |                       |          |   |         |   |
|-----------|-----------------------|----------|---|---------|---|
| USER NAME | = christopher.russell | DESIGNED | - | REVISED | - |
|           |                       | DRAWN    | - | REVISED | - |
|           |                       | CHECKED  | - | REVISED | - |
| PLOT DATE | = 3/17/2025           | DATE     | - | REVISED | - |

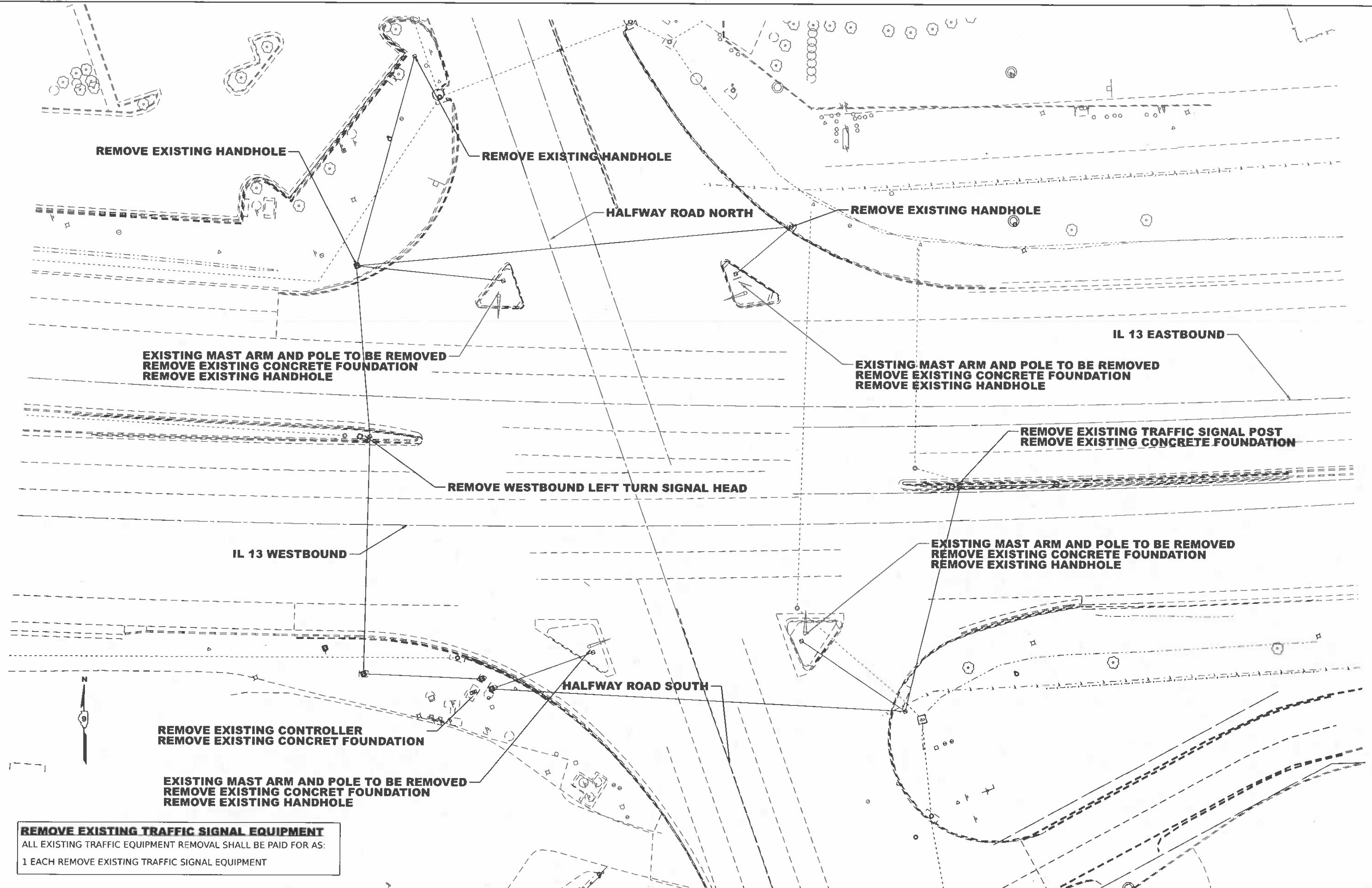
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| GEOMETRICS |       |    |         |
|------------|-------|----|---------|
| SCALE:     | SHEET | OF | SHEETS  |
|            | STA.  |    | TO STA. |

| F&P<br>RTE.               | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|------------|------------|-----------------|--------------|
| 331                       | (1X-1)TS-6 | WILLIAMSON | 31              | 15           |
| CONTRACT NO. 78A33        |            |            |                 |              |
| ILLINOIS FED. AID PROJECT |            |            |                 |              |



MODEL: INVRT13 - Plan 1 [Sheet]  
FILE NAME: \\p7mod\dw\benley.com\DW001\Documents\DOT Office\Desired BORD Project\78A33\CD\Drawings\78A33-SND-TrafficSignalPlan.dgn



**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**  
ALL EXISTING TRAFFIC EQUIPMENT REMOVAL SHALL BE PAID FOR AS:  
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

|            |                       |          |   |         |   |
|------------|-----------------------|----------|---|---------|---|
| USER NAME  | = christopher.russell | DESIGNED | - | REVISED | - |
|            |                       | DRAWN    | - | REVISED | - |
| PLOT SCALE | = SS CALES            | CHECKED  | - | REVISED | - |
| PLOT DATE  | = 3/17/2025           | DATE     | - | REVISED | - |

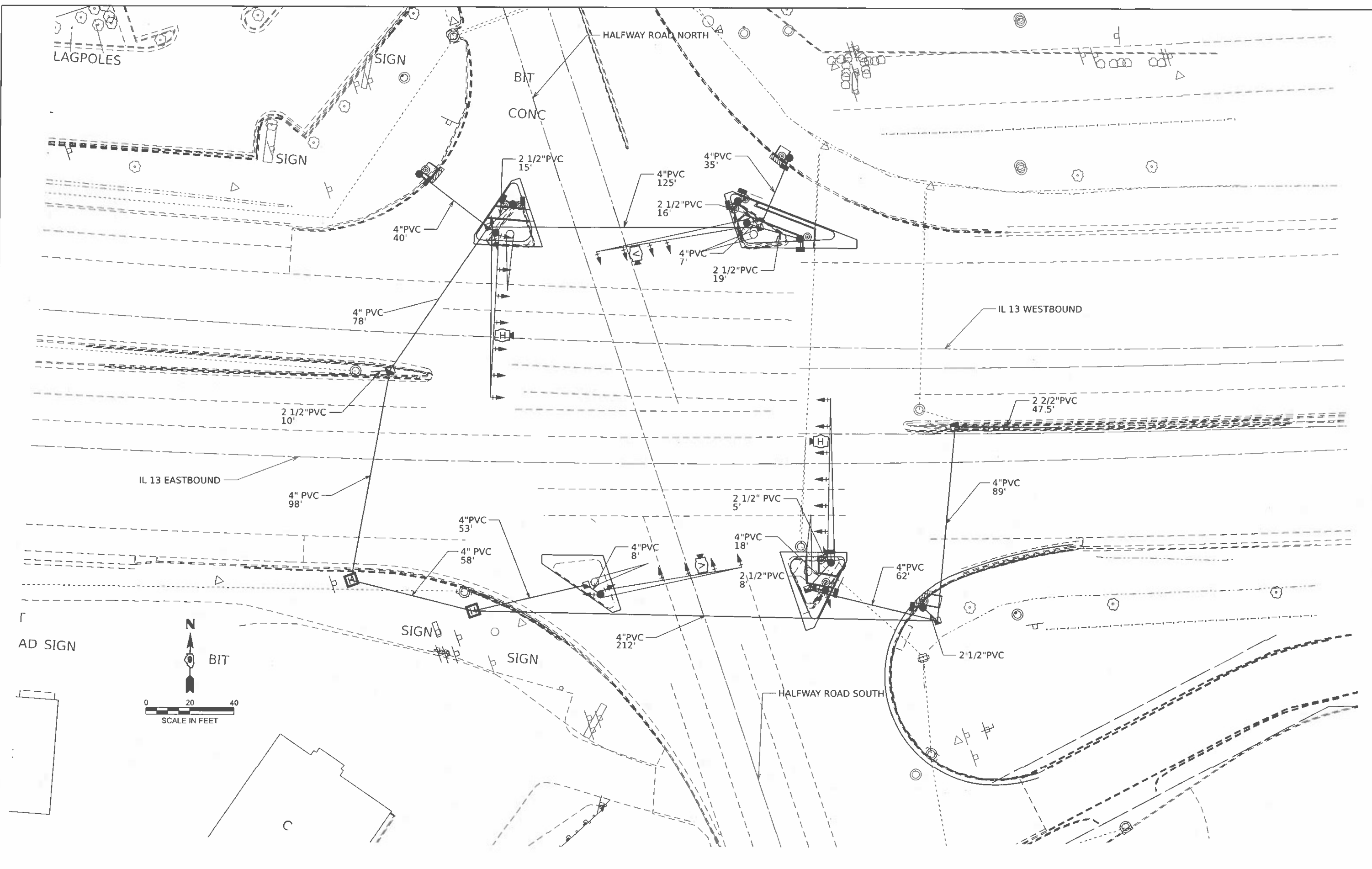
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNALS  
SCALE: 1"=20'  
SHEET 000 OF SHEETS STA. TO STA.

| F.A.P.<br>RTE             | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|------------|------------|-----------------|--------------|
| 331                       | (1X-1)TS-6 | WILLIAMSON | 31              | 17           |
| CONTRACT NO. 78A33        |            |            |                 |              |
| ILLINOIS FED. AID PROJECT |            |            |                 |              |



MODEL: E013 - Plan 1 (Sheet)  
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|                                 |            |           |
|---------------------------------|------------|-----------|
| USER NAME = christopher russell | DESIGNED - | REVISED - |
| PLOT SCALE = SCALES             | DRAWN -    | REVISED - |
| PLOT DATE = 3/17/2025           | CHECKED -  | REVISED - |
|                                 | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNALS

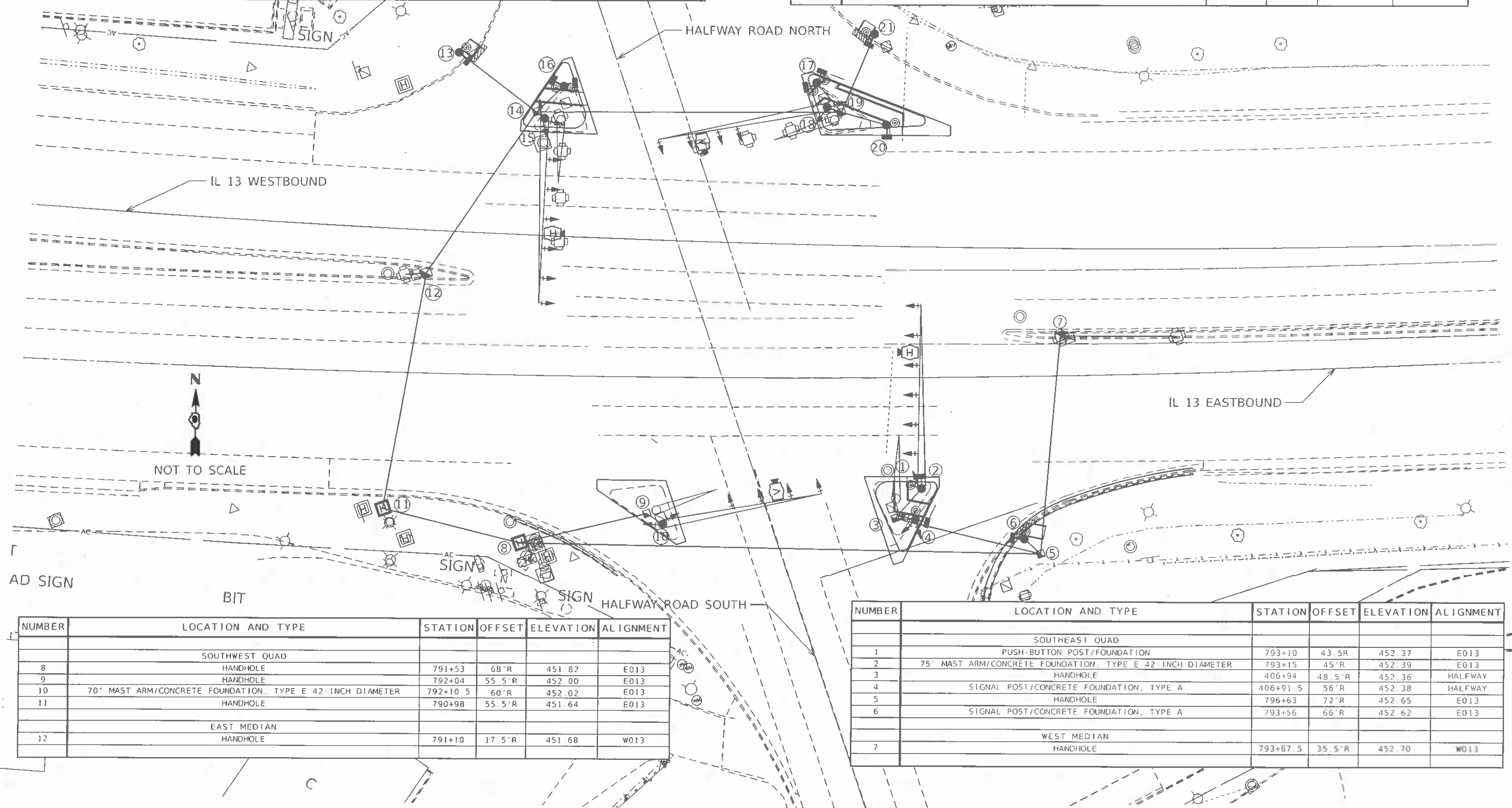
SCALE: 1"=20' SHEET000 OF SHEETS STA. TO STA.

| F.A.P. RTE.                 | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
|-----------------------------|------------|------------|--------------|-----------|
| 331                         | (1X-1)TS-6 | WILLIAMSON | 31           | 19        |
| CONTRACT NO. 78A33          |            |            |              |           |
| ILLINOIS   FED. AID PROJECT |            |            |              |           |



| NUMBER         | LOCATION AND TYPE                                         | STATION  | OFFSET | ELEVATION | ALIGNMENT |
|----------------|-----------------------------------------------------------|----------|--------|-----------|-----------|
| LAGPOLES       |                                                           |          |        |           |           |
| NORTHWEST QUAD |                                                           |          |        |           |           |
| 13             | SIGNAL POST/CONCRETE FOUNDATION, TYPE A                   | 791+18   | 72.5'L | 451.71    | W013      |
| 14             | HANDHOLE                                                  | 791+51.5 | 50'L   | 451.77    | W013      |
| 15             | 75' MAST ARM/CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | 791+55   | 47.5'L | 451.78    | W013      |
| 16             | SIGNAL POST/CONCRETE FOUNDATION, TYPE A                   | 409+04   | 24'L   | 451.79    | HALFWAY   |

| NUMBER         | LOCATION AND TYPE                                         | STATION  | OFFSET  | ELEVATION | ALIGNMENT |
|----------------|-----------------------------------------------------------|----------|---------|-----------|-----------|
| NORTHEAST QUAD |                                                           |          |         |           |           |
| 17             | SIGNAL POST/CONCRETE FOUNDATION, TYPE A                   | 408+72   | 74'R    | 452.09    | HALFWAY   |
| 18             | 70' MAST ARM/CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | 792+70.5 | 56'L    | 452.10    | W013      |
| 19             | HANDHOLE                                                  | 792+76.5 | 54'L    | 452.13    | W013      |
| 20             | SIGNAL POST/CONCRETE FOUNDATION, TYPE A                   | 792+95   | 49'L    | 452.23    | W013      |
| 21             | SIGNAL POST/CONCRETE FOUNDATION, TYPE A                   | 408+83   | 102.5'R | 452.20    | HALFWAY   |



| NUMBER         | LOCATION AND TYPE                                         | STATION  | OFFSET | ELEVATION | ALIGNMENT |
|----------------|-----------------------------------------------------------|----------|--------|-----------|-----------|
| SOUTHWEST QUAD |                                                           |          |        |           |           |
| 8              | HANDHOLE                                                  | 791+53   | 68'R   | 451.82    | E013      |
| 9              | HANDHOLE                                                  | 792+04   | 55.5'R | 452.00    | E013      |
| 10             | 70' MAST ARM/CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | 792+10.5 | 60'R   | 452.02    | E013      |
| 11             | HANDHOLE                                                  | 790+98   | 55.5'R | 451.64    | E013      |
| 12             | EAST MEDIAN HANDHOLE                                      | 791+10   | 17.5'R | 451.68    | W013      |

| NUMBER         | LOCATION AND TYPE                                         | STATION  | OFFSET | ELEVATION | ALIGNMENT |
|----------------|-----------------------------------------------------------|----------|--------|-----------|-----------|
| SOUTHEAST QUAD |                                                           |          |        |           |           |
| 1              | PUSH-BUTTON POST/FOUNDATION                               | 793+10   | 43.5R  | 452.37    | E013      |
| 2              | 75' MAST ARM/CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | 793+15   | 45'R   | 452.39    | E013      |
| 3              | HANDHOLE                                                  | 406+94   | 48.5'R | 452.36    | HALFWAY   |
| 4              | SIGNAL POST/CONCRETE FOUNDATION, TYPE A                   | 406+91.5 | 56'R   | 452.38    | HALFWAY   |
| 5              | HANDHOLE                                                  | 796+63   | 72'R   | 452.65    | E013      |
| 6              | SIGNAL POST/CONCRETE FOUNDATION, TYPE A                   | 793+56   | 66'R   | 452.62    | E013      |
| WEST MEDIAN    |                                                           |          |        |           |           |
| 7              | HANDHOLE                                                  | 793+67.5 | 35.5'R | 452.70    | W013      |

MODEL: E:\4 - Plan 2 (Sheet)  
FILE NAME: p:\1000\pwr\_bendy\com\pwr\DOT\Documents\DOT Office\Drawings\BORD Projects\78A333\CAD\Drawings\78A333\_Sign\ProposedSignals(2).dgn

|            |                       |          |   |         |   |
|------------|-----------------------|----------|---|---------|---|
| USER NAME  | = christopher russell | DESIGNED | - | REVISED | - |
| PLOT SCALE | = \$SCALE\$           | DRAWN    | - | REVISED | - |
| PLOT DATE  | = 3/17/2025           | CHECKED  | - | REVISED | - |
|            |                       | DATE     | - | REVISED | - |

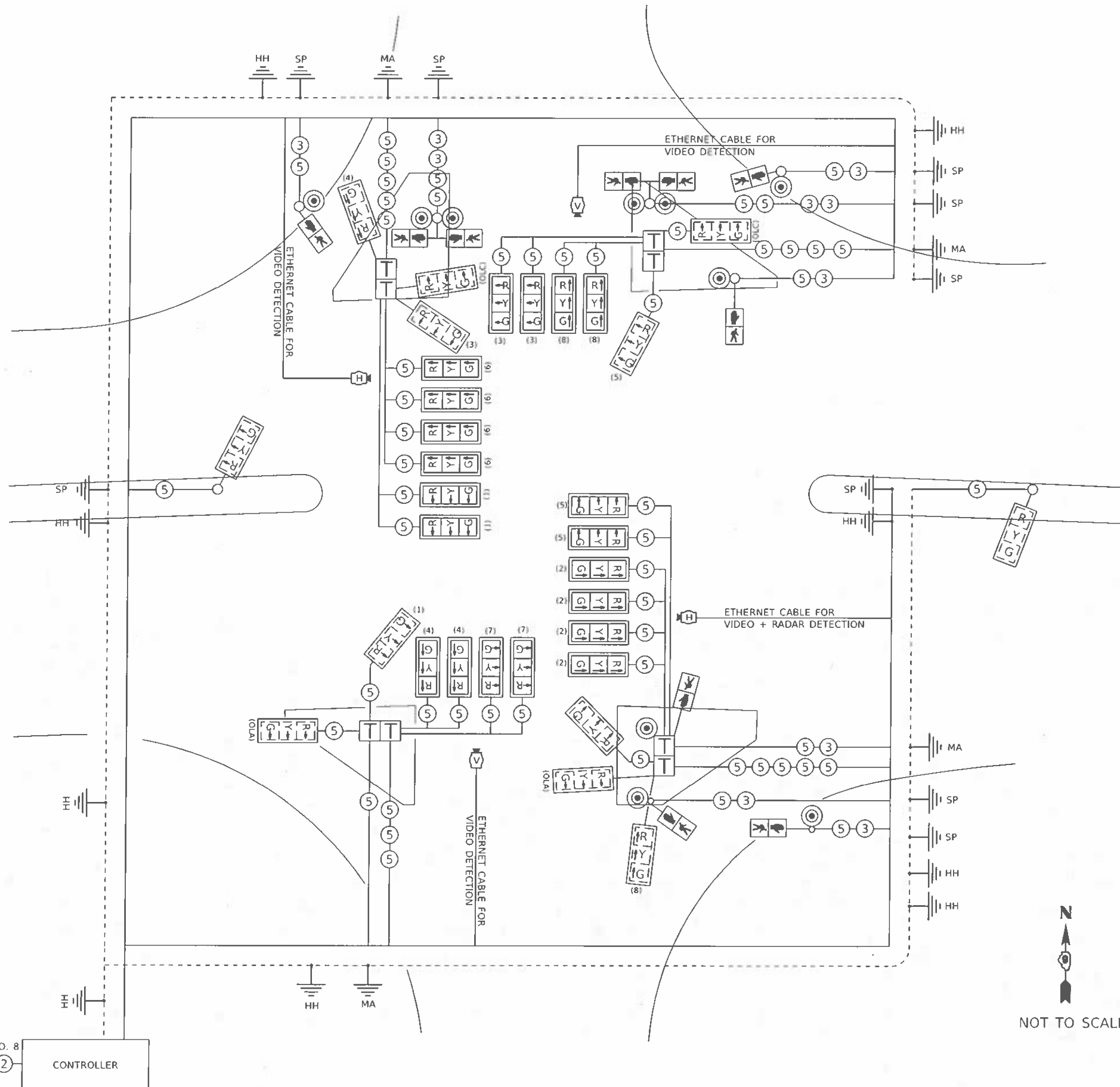
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNALS

SCALE: 1"=20' SHEETPLAN 2 OF SHEETS STA. TO STA.

| F.A. RTE                 | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
|--------------------------|------------|------------|--------------|-----------|
| 331                      | (1X-1)TS-6 | WILLIAMSON | 31           | 20        |
| CONTRACT NO. 78A333      |            |            |              |           |
| ILLINOIS FED AID PROJECT |            |            |              |           |

MODEL: Default  
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#### NOTES

ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.  
ELECTRIC SERVICE IS SUPPLIED BY AMEREN CIPS.  
ELECTRIC CABLE DENOTED AS #10, 3/C BEING INSTALLED TO THE COMBINATION MAST ARM POLES SHALL NOT GO THROUGH THE TERMINAL BLOCK BUT SHOULD BE SPLICED IN POLE. SEE STEEL COMB. MAST ARM ASSEMBLY AND POLE DETAIL.  
PROPOSED COAXIAL CABLE AND ANTENNA INCLUDED IN THE COST OF RADIO TRANSCEIVER.  
ALL SIGNAL LENSES SHALL BE 12 INCHES.  
SEE SHEET #26 FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE

#### LEGEND

-  SIGNAL HEAD, LED, I-FACE, 3 SECTION, MAST ARM MOUNTED (W/ TRAFFIC SIGNAL BACKPLATE, RETROFLECTIVE)
-  SIGNAL HEAD, LED, I-FACE, 3 SECTION, BRACKET MOUNTED (W/ TRAFFIC SIGNAL BACKPLATE, RETROFLECTIVE)
- THRU AND TURNING MOVEMENTS SHALL ALL HAVE DIRECTIONAL LENSES AS SHOWN ON WIRING DIAGRAM
-  PEDESTRIAN PUSH BUTTON
-  PEDESTRIAN SIGNAL HEAD
-  VIDEO/RADAR DETECTION SENSOR TO BE RELOCATED
-  TERMINAL BLOCK
-  12" TRAFFIC SIGNAL SECTION, LETTER INDICATES COLOR.
-  TRAFFIC SIGNAL CONTROLLER CABINET
-  NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE
-  NUMBER IN PARENTHESIS INDICATES PHASE
- MA - MAST ARM
- HH - HANDHOLE
- SP - SIGNAL POLE
- LP - LIGHT POLE

|            |                       |          |   |         |   |
|------------|-----------------------|----------|---|---------|---|
| USER NAME  | = christopher russell | DESIGNED | - | REVISED | - |
| DRAWN      | -                     | CHECKED  | - | REVISED | - |
| PLOT SCALE | = 5 SCALES            | DATE     | - | REVISED | - |
| PLOT DATE  | = 3/21/2025           |          |   |         |   |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

#### PROPOSED WIRING DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

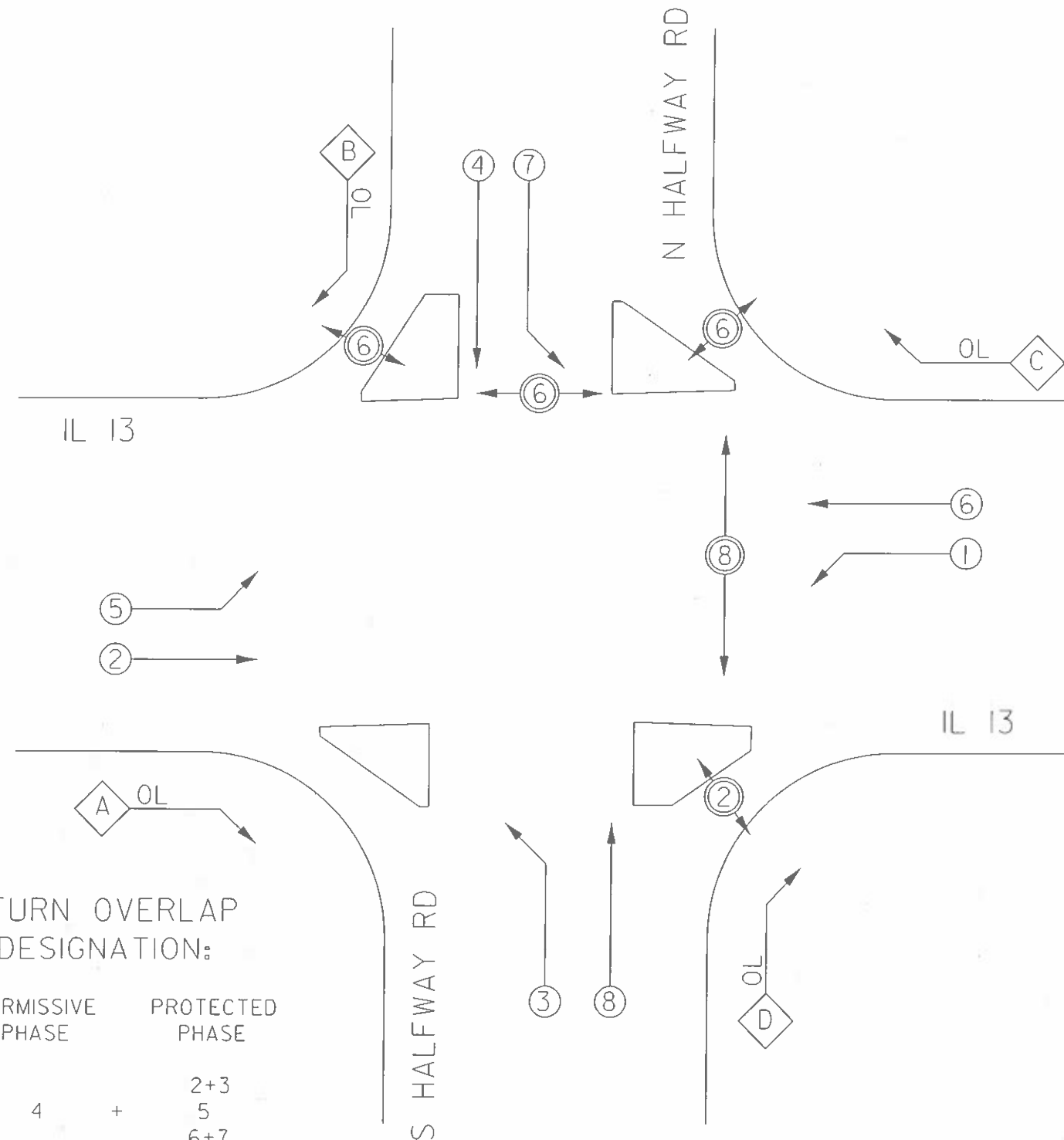
| F.A.P. RTE                | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|------------|--------------|-----------|
| 331                       | (1X-1)TS-6 | WILLIAMSON | 31           | 21        |
| CONTRACT NO. 78A33        |            |            |              |           |
| ILLINOIS FED. AID PROJECT |            |            |              |           |



IL 13 & HALFWAY RD



DRAWING NOT TO SCALE



RIGHT TURN OVERLAP  
PHASE DESIGNATION:

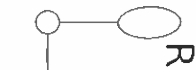
- 

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| A              |                  | 2+3             |
| B              | 4                | 5               |
| C              |                  | 6+7             |
| D              | 8                | 1               |

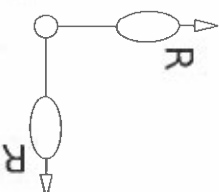
REFERRING TO STANDARD 857001, THE  
VEHICULAR AND PEDESTRIAN PHASES  
USED ARE DESIGNATED AS SHOWN

|               |                                |            |           |                                                   |                                    |                    |            |            |              |           |
|---------------|--------------------------------|------------|-----------|---------------------------------------------------|------------------------------------|--------------------|------------|------------|--------------|-----------|
| FILE NAME: DW | USER NAME = CHUCKRUPPE RUSSELL | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | PROPOSED PHASE DESIGNATION DIAGRAM | F.A.P.             | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
|               |                                | DRAWN -    | REVISED - |                                                   |                                    | 331                | (1X-1)TS-6 | WILLIAMSON | 31           | 22        |
|               | PLOT SCALE = 8Scales           | CHECKED -  | REVISED - |                                                   |                                    | CONTRACT NO. 78A33 |            |            |              |           |
|               | PLOT DATE = 3/17/2025          | DATE -     | REVISED - |                                                   |                                    | SCALE:             | SHEET      | OF         | SHEETS       | STA       |

LIGHTING LEGEND



EXISTING TWIN-BRACKET ARM LIGHTING UNIT AND FOUNDATION TO BE REMOVED



EXISTING TENON TWIN-BRACKET ARM AND LUMINAIRES TO BE REMOVED FROM EXISTING COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS)



EXISTING LIGHTING CABLE TO BE REMOVED



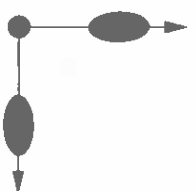
EXISTING LIGHTING UNIT TO REMAIN



PROPOSED COMBINATION LIGHTING CONTROLLER IN EXISTING TRAFFIC CONTROLLER



PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 45' M.H., 15' M.A., LED LUMINAIRE, 120V, WITH 15" B.C. ON 8 5/8" X 6' METAL FOUNDATION AND BREAKAWAY COUPLINGS WITH STAINLESS STEEL SCREEN



PROPOSED COMBINATION MAST ARM AND POLE LED LUMINAIRE, 120V, 45' M.H., 15' M.A. ON STEEL COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS)



PROPOSED UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE



PROPOSED 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), IN PROPOSED TRAFFIC SIGNAL CONDUIT



PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.

S.P. COLUMN

- \* INDICATES SPECIAL PROVISION
- \*\* INDICATES SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

HIGHWAY STANDARDS

|           |                              |
|-----------|------------------------------|
| 821101-02 | LUMINAIRE WIRING IN POLE     |
| 830001-03 | LIGHT POLE ALUMINUM MAST ARM |
| 836001-04 | LIGHT POLE FOUNDATION        |
| 838001-01 | BREAKAWAY DEVICES            |

LIGHTING SUMMARY OF QUANTITIES

| S.P. | PAY ITEM | DESCRIPTION                                                                           | UNIT | QUANTITY |
|------|----------|---------------------------------------------------------------------------------------|------|----------|
|      | 81028750 | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.                            | FOOT | 55       |
|      | 81603010 | UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE | FOOT | 105      |
|      | 81702110 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10                             | FOOT | 2 805    |
| **   | 82110009 | LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I                                         | EACH | 10       |
|      | 83009600 | LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM                                    | EACH | 2        |
|      | 83600356 | LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6'                            | EACH | 2        |
|      | 83800650 | BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN                                | EACH | 8        |
|      | 84200600 | REMOVAL OF LIGHTING UNIT, NO SALVAGE                                                  | EACH | 1        |
|      | 84200804 | REMOVAL OF POLE FOUNDATION                                                            | EACH | 1        |
| *    | X1400267 | REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE                                             | EACH | 4        |
| *    | X8250091 | COMBINATION LIGHTING CONTROLLER                                                       | EACH | 1        |

LIGHTING INDEX OF SHEETS

|     |                                                  |
|-----|--------------------------------------------------|
| L-1 | LIGHTING LEGEND & LIGHTING SUMMARY OF QUANTITIES |
| L-2 | LIGHTING REMOVAL PLAN                            |
| L-3 | PROPOSED LIGHTING PLAN                           |
| L-4 | LUMINAIRE PERFORMANCE TABLE & DETAILS            |

L-1

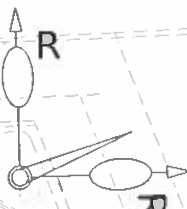
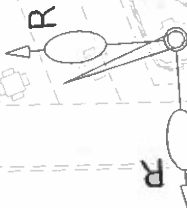
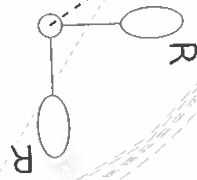
MODEL Legend - Plan 1 (Sheet)  
FILE NAME: P:\2025\Bids\Contract\Illinois\78A33\IL 13 @ Halfway Rd\CON Sheets\78A33-Sup-Lighting\Sheet.dgn

|  |            |          |         |                                                   |                                                                      |               |       |    |        |      |         |                           |            |            |                 |              |
|--|------------|----------|---------|---------------------------------------------------|----------------------------------------------------------------------|---------------|-------|----|--------|------|---------|---------------------------|------------|------------|-----------------|--------------|
|  | USER NAME  | DESIGNED | REVISED | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | IL 13/HALFWAY RD<br>LIGHTING LEGEND & LIGHTING SUMMARY OF QUANTITIES | SCALE: 1"=20' | SHEET | OF | SHEETS | STA. | TO STA. | F.A.P.<br>RTE.            | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|  |            | DRAWN    | REVISED |                                                   |                                                                      |               |       |    |        |      |         | 331                       | (1X-1)TS-6 | WILLIAMSON | 31              | 023          |
|  | PLOT SCALE | CHECKED  | REVISED |                                                   |                                                                      |               |       |    |        |      |         | CONTRACT NO. 78A33        |            |            |                 |              |
|  | PLOT DATE  | DATE     | REVISED |                                                   |                                                                      |               |       |    |        |      |         | ILLINOIS FED. AID PROJECT |            |            |                 |              |

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXISTING COMBINATION ROADWAY LIGHTING POWER FEED AND CIRCUITING (NOT SHOWN). EXISTING COMBINATION ROADWAY LIGHTING CONDUCTORS TO BE REMOVED FROM TRAFFIC SIGNAL CONDUIT.

SIGN



SIGN

L-2

MODEL: Unsaved Plan - Plan 1 [Sheet]  
FILE NAME: I:\2025\Bids\Chicasso\Direct 078A33 L 13 @ Halfway Rd\CDR\Sheet 078A33 L 13-Lighting\LightingRem.dgn

|                            |            |           |
|----------------------------|------------|-----------|
| USER NAME = bbar           | DESIGNED - | REVISED - |
| PLOT SCALE = 0.166667"/in. | DRAWN -    | REVISED - |
| PLOT DATE = 2/3/2025       | CHECKED -  | REVISED - |
|                            | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 13/HALFWAY RD  
LIGHTING REMOVAL PLAN

SCALE: 1"=20'

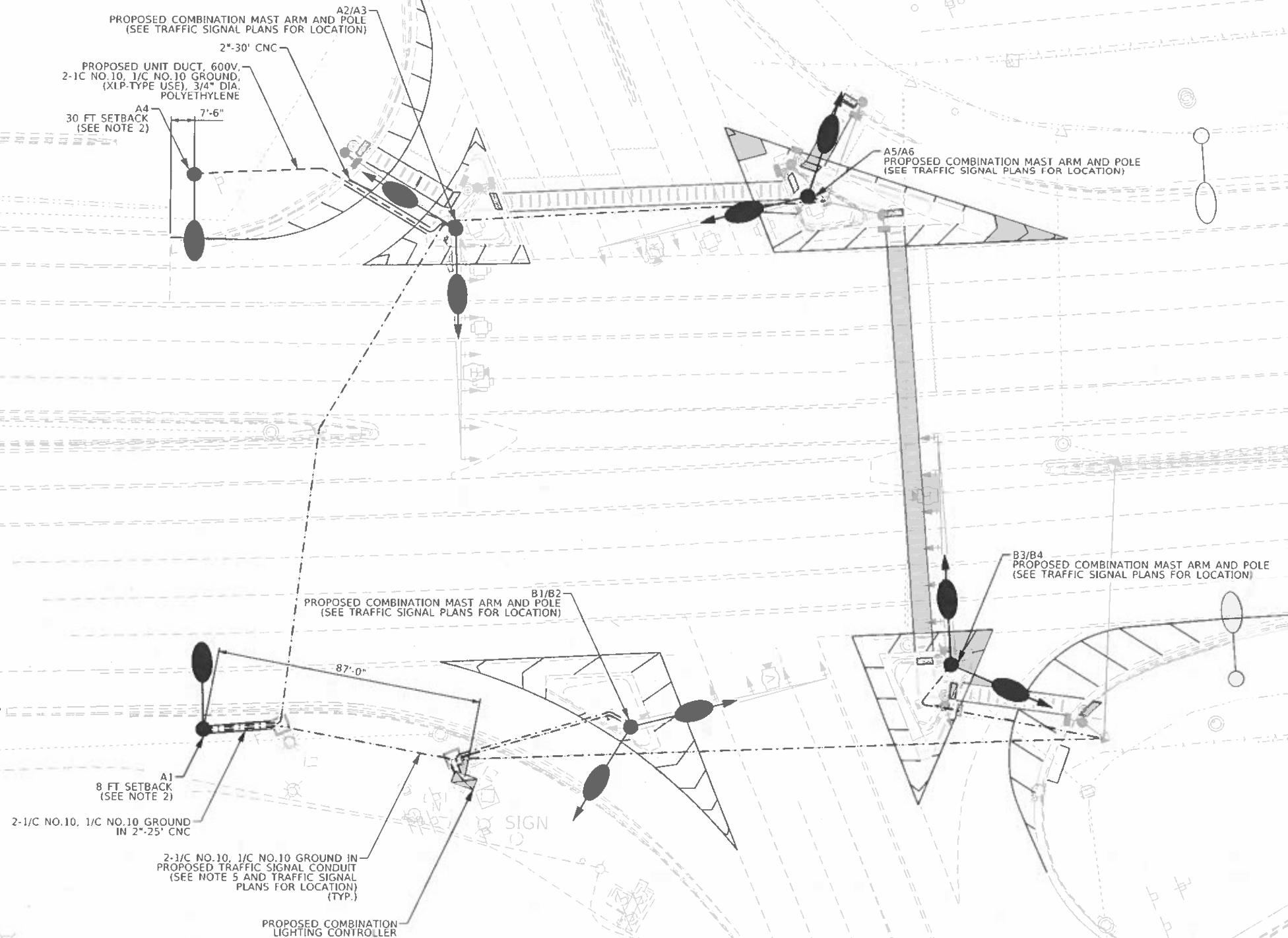
SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.        | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|------------|--------------|-----------|
| 331                | (1X-1)TS-6 | WILLIAMSON | 31           | 024       |
| CONTRACT NO. 78A33 |            |            |              |           |

ILLINOIS FED. AID PROJECT

NOTES:

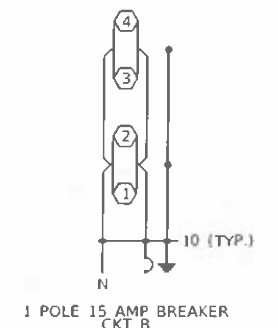
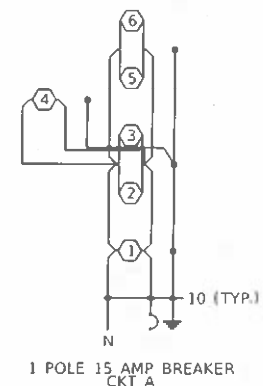
1. CIRCUIT DECALS SHALL NOT BE INSTALLED ON PROPOSED LIGHTING UNIT OR COMBINATION LIGHTING UNITS. CIRCUITING SHOWN IS FOR ELECTRICAL CONNECTIONS AND IS FOR REFERENCE ONLY.
2. SETBACK IS MEASURED FROM EDGE OF PAVEMENT (WHITE LINE).
3. ALL PROPOSED ROADWAY LUMINAIRES SHOWN SHALL BE POWERED FROM THE COMBINATION LIGHTING CONTROLLER.
4. LIGHTING MAST ARM(S) SHALL BE ORIENTED SUCH THAT ROADWAY LUMINAIRE IS PERPENDICULAR TO THE ROADWAY, AS SHOWN ON THE PLANS.
5. COMBINATION ROADWAY LIGHTING CIRCUITS TO BE ROUTED IN TRAFFIC SIGNAL CONDUIT (SEE TRAFFIC SIGNAL PLANS), UNLESS OTHERWISE SHOWN. CONDUCTORS SHALL RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE LIGHTING UNITS.



WIRING DIAGRAM NOTES:

1. 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.

- ROADWAY LUMINAIRE, LED
- GROUND ROD



COMBINATION LIGHTING CONTROLLER  
IL 13/HALFWAY RD

L-3

MODEL: Unsaved Plan - Plan 1 [Sheet]  
FILE NAME: H:\5550\Bldg-Construct\Drawings\78A33-IL-13-Halway-RD\Drawings\78A33-IL-13-Halway-RD-Lighting-Plan.dgn

|            |               |          |   |         |   |
|------------|---------------|----------|---|---------|---|
| USER NAME  | tbarr         | DESIGNED | - | REVISED | - |
| PLOT SCALE | 0.156667"/in. | DRAWN    | - | REVISED | - |
| PLOT DATE  | 2/3/2025      | CHECKED  | - | REVISED | - |
|            |               | DATE     | - | REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

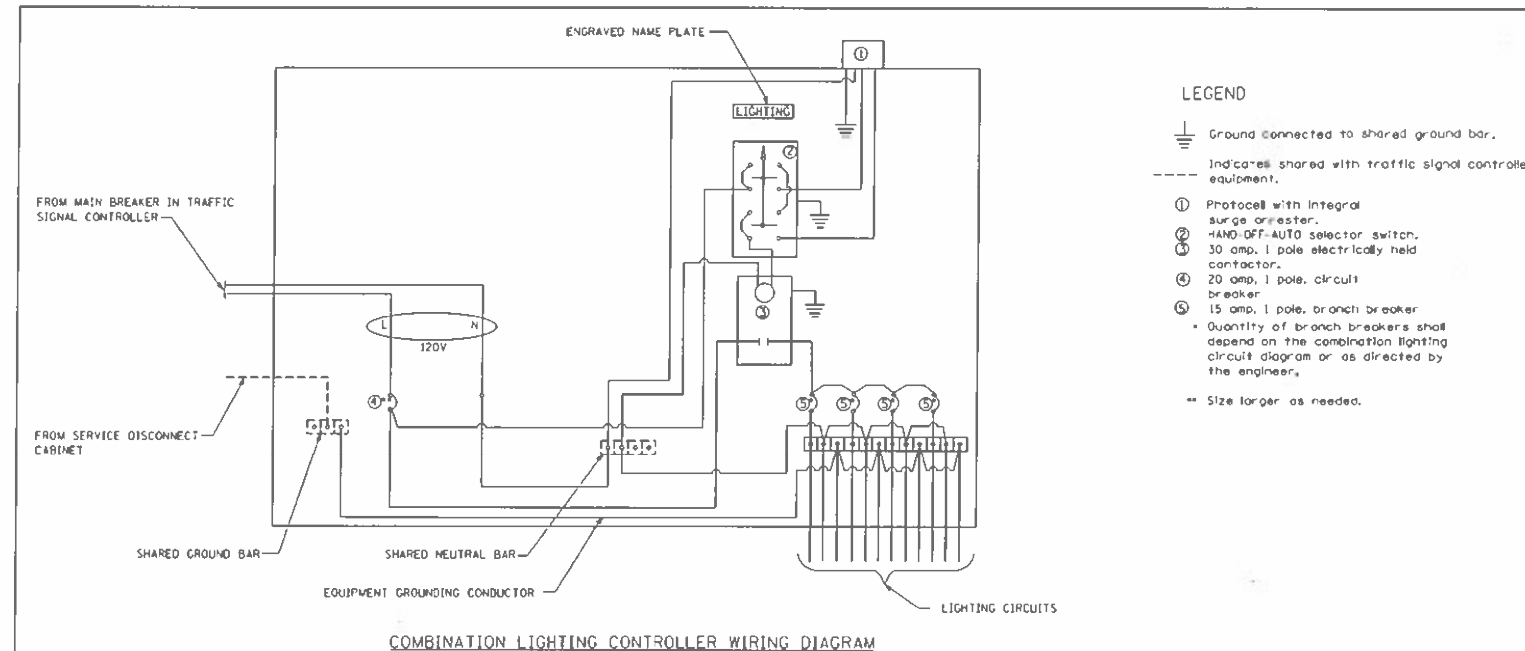
IL 13/HALFWAY RD  
PROPOSED LIGHTING PLAN

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.        | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|------------|--------------|-----------|
| 331                | (1X-1)TS-6 | WILLIAMSON | 31           | 025       |
| CONTRACT NO. 78A33 |            |            |              |           |

ILLINOIS FED AID PROJECT

####



LEGEND

- Ground Connected to shared ground bar.  
Indicates shared with traffic signal controller equipment.  
① Photocell with integral surge arrester.  
② HAND-OFF-AUTO selector switch.  
③ 30 amp, 1 pole electrically held contactor.  
④ 20 amp, 1 pole circuit breaker.  
⑤ 15 amp, 1 pole branch breaker.  
\* Quantity of branch breakers shall depend on the combination lighting circuit diagram or as directed by the engineer.  
\*\* Size larger as needed.

GENERAL NOTES

- All control installation components shall be UL listed.  
All wiring shall be neatly dressed, identified by tags, and supported.  
The circuit breaker shall be clearly labeled for lighting according to Article 1068.01(f) of the Standard Specifications.  
Install under eave photocell on traffic signal controller cabinet per Article 1068.01(e)(2) of the Standard Specifications.  
All lighting equipment shall be installed on a side mounted insulated subpanel per Article 1068.01(e)(9) of the Standard Specifications on the lower right hand side of the traffic signal controller or as directed by the engineer.  
Provide an engraved stainless steel nameplate on the sub panel reading "LIGHTING".

| DATE     | REVISIONS             |
|----------|-----------------------|
| 10/13/14 | NEW DETAIL            |
| 01/07/17 | CHANGE MAIN CB TO 20A |
|          |                       |
|          |                       |
|          |                       |

COMBINATION LIGHTING CONTROLLER DETAIL

LUMINAIRE PERFORMANCE TABLE  
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I

Project

| Date       | Contract Number | Section Number | County     |
|------------|-----------------|----------------|------------|
| 01-29-2025 | 78A33           |                | WILLIAMSON |

| Marked Route Number | Municipality |
|---------------------|--------------|
|                     |              |

Roadway

| Lane Width (See Note 4) | # of Lanes | Median Width | I.E.S. Surface Classification | Q-Zero Value |
|-------------------------|------------|--------------|-------------------------------|--------------|
| 12 ft                   | 1          | N/A          | R3                            | 0.07         |

Structure

| Mounting Height | Arm Length | Set Back (See Note 1) | Number of Luminaires (Highmast & Sign Lighting Only) |
|-----------------|------------|-----------------------|------------------------------------------------------|
| 45 ft           | 15 ft      | 15 ft                 | N/A                                                  |

Luminaire

| Description                                   | I.E.S. Transverse Distribution | I.E.S. Lateral Distribution |
|-----------------------------------------------|--------------------------------|-----------------------------|
| LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I | TYPE II                        | MEDIUM                      |

| Total Light Loss Factor (LLF) | BUG Rating | Shields | Dimming Protocol |
|-------------------------------|------------|---------|------------------|
| 0.7                           | U = 0      | NO      | 0-10V            |

Layout

| Spacing (to Nearest 5 Ft) Configuration (Opposite, Staggered, 1 Sided, or Median) |
|-----------------------------------------------------------------------------------|
| 300 ft ONE ROW, NEAR SIDE                                                         |

Performance (See Note 5)

| Average Illuminance, $E_{AVE}$ (fc)               | Uniformity Ratio, $E_{AVE}/E_{MIN}$ |                                     |                                        |
|---------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
| $\geq 1.1$                                        | $\leq 3.0:1$                        |                                     |                                        |
| Average Luminance, $L_{AVE}$ (cd/m <sup>2</sup> ) | Uniformity Ratio, $L_{AVE}/L_{MIN}$ | Uniformity Ratio, $L_{MAX}/L_{MIN}$ | Veiling Luminance Ratio, $L_V/L_{MIN}$ |
| $\geq 1.3$                                        | $\leq 3.0:1$                        | $\leq 6.0:1$                        | $\leq 0.3$                             |

Light Trespass

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

Notes

- Set Back is from Edge of Pavement (white line).
- Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
- Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.
- Lane width is the width of each individual lane, not to be confused with total roadway width.
- Compliance with performance criteria shall be held to one significant digit.
- Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.
- Nominal lumen output of 38,000.

|                            |            |           |
|----------------------------|------------|-----------|
| USER NAME = bbarr          | DESIGNED - | REVISED - |
| PLOT SCALE = 0.166667"/in. | DRAWN -    | REVISED - |
| PLOT DATE = 2/3/2025       | CHECKED -  | REVISED - |
|                            | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 13/HALFWAY RD  
LUMINAIRE PERFORMANCE TABLE & DETAILS

| SCALE: ### | SHEET | OF | SHEETS | STA. | TO STA. |
|------------|-------|----|--------|------|---------|
|------------|-------|----|--------|------|---------|

| F&P RTE.                  | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|------------|--------------|-----------|
| 331                       | (1X-1) S-6 | WILLIAMSON | 31           | 026       |
| CONTRACT NO. 78A33        |            |            |              |           |
| ILLINOIS FED. AID PROJECT |            |            |              |           |



Illinois Department  
of Transportation  
Division of Highways  
District 3

## SOIL BORING LOG

Page 1 of 1

Date 4/25/24

ROUTE IL 13 DESCRIPTION Mast Arm Foundation Investigation - Marion, IL LOGGED BY L.Estel

SECTION (1X-1)TS-6 LOCATION IL 13/Halfway Rd (NE Quad), SEC. 14, TWP. 9S, RNG. 2E, PM

COUNTY Williamson DRILLING METHOD HSA (8" O.D., 3.25" I.D.) HAMMER TYPE AutoSPT 140 lbs

| STRUCT. NO.                            | D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S<br>Qu | M<br>O<br>I<br>S<br>T<br>(%) | Surface Water Elev.                                                            | ft | D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S<br>Qu | M<br>O<br>I<br>S<br>T<br>(%) |
|----------------------------------------|-----------------------|-----------------------|-------------------|------------------------------|--------------------------------------------------------------------------------|----|-----------------------|-----------------------|-------------------|------------------------------|
| Station                                |                       |                       |                   |                              | Stream Bed Elev.                                                               | ft |                       |                       |                   |                              |
| BORING NO. 1-MA                        |                       |                       |                   |                              | Groundwater Elev.:                                                             |    |                       |                       |                   |                              |
| Station 792+70                         |                       |                       |                   |                              | First Encounter                                                                | ft |                       |                       |                   |                              |
| Offset 57.0ft LT                       |                       |                       |                   |                              | Upon Completion                                                                | ft |                       |                       |                   |                              |
| Ground Surface Elev.                   | ft                    | (ft)                  | (tsf)             | (%)                          | After Hrs.                                                                     | ft | (ft)                  |                       | (tsf)             | (%)                          |
| 4" CONCRETE Median Surface             |                       |                       |                   |                              | Hard Brown, Moist SILTY CLAY                                                   |    |                       | 8                     | 4.5               | 16                           |
| 3" Bedding Stone and CA6 AGGREGATE     |                       |                       |                   |                              | (continued)                                                                    |    |                       | 9                     | B                 |                              |
| Stiff Grey, Moist CLAY                 |                       | 3                     |                   |                              | Very Stiff Brown, Moist SILTY CLAY                                             |    |                       | 2                     |                   |                              |
|                                        |                       | 2                     | 1.0               | 25                           |                                                                                |    |                       | 2                     | 2.05              | 23                           |
|                                        |                       | 1                     | B                 |                              |                                                                                |    |                       | 8                     | B                 |                              |
| Stiff Grey, Moist SILTY CLAY LOAM      |                       | 3                     |                   |                              | Hard Brown, Moist SILT to SILT LOAM                                            |    |                       | 5                     |                   |                              |
|                                        |                       | 2                     | 1.0               | 23                           |                                                                                |    |                       | 10                    | 6.15              | 17                           |
|                                        |                       | 2                     | B                 |                              |                                                                                |    |                       | 12                    | B                 |                              |
| Soft Grey, Moist SILTY CLAY LOAM       |                       | WOH                   |                   |                              | Bottom of Hole at 26 feet                                                      |    |                       |                       |                   |                              |
|                                        |                       | WOH                   | 0.3               | 26                           | Free water encountered at 17 feet                                              |    |                       |                       |                   |                              |
|                                        |                       | WOH                   | B                 |                              | To convert "N" value to "N60"<br>multiply by 1.39; Hammer<br>efficiency = 83.4 |    |                       |                       |                   |                              |
| Very Stiff Brown, Moist SILTY CLAY     |                       | 3                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 3                     | 3.5               | 16                           |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 6                     | B                 |                              |                                                                                |    |                       |                       |                   |                              |
| Stiff Grey mot Brown, Moist SILTY CLAY |                       | 4                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 4                     | 1.25              | 20                           |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 5                     | B                 |                              |                                                                                |    |                       |                       |                   |                              |
| Very Stiff Brown, Moist SILTY CLAY     |                       | 1                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 5                     | 3.5               | 17                           |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 6                     | B                 |                              |                                                                                |    |                       |                       |                   |                              |
| Medium Stiff Brown, Moist SILTY CLAY   |                       | 2                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 3                     | 0.6               | 18                           |                                                                                |    |                       |                       |                   |                              |
|                                        |                       | 5                     | B                 |                              |                                                                                |    |                       |                       |                   |                              |
| Hard Brown, Moist SILTY CLAY           |                       | 7                     |                   |                              |                                                                                |    |                       |                       |                   |                              |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department  
of Transportation  
Division of Highways  
District 3

## SOIL BORING LOG

Page 1 of 1

Date 4/25/24

ROUTE IL 13 DESCRIPTION Mast Arm Foundation Investigation - Marion, IL LOGGED BY L.Estel

SECTION (1X-1)TS-6 LOCATION IL 13/Halfway Rd (SW Quad), SEC. 14, TWP. 9S, RNG. 2E, PM

COUNTY Williamson DRILLING METHOD HSA (8" O.D., 3.25" I.D.) HAMMER TYPE AutoSPT 140 lbs

| STRUCT. NO.                                         | D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S<br>Qu | M<br>O<br>I<br>S<br>T<br>(%) | Surface Water Elev.                                                            | ft | D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S<br>Qu | M<br>O<br>I<br>S<br>T<br>(%) |
|-----------------------------------------------------|-----------------------|-----------------------|-------------------|------------------------------|--------------------------------------------------------------------------------|----|-----------------------|-----------------------|-------------------|------------------------------|
| Station                                             |                       |                       |                   |                              | Stream Bed Elev.                                                               | ft |                       |                       |                   |                              |
| BORING NO. 2-MA                                     |                       |                       |                   |                              | Groundwater Elev.:                                                             |    |                       |                       |                   |                              |
| Station 792+05                                      |                       |                       |                   |                              | First Encounter                                                                | ft |                       |                       |                   |                              |
| Offset 55.0ft RT                                    |                       |                       |                   |                              | Upon Completion                                                                | ft |                       |                       |                   |                              |
| Ground Surface Elev.                                | ft                    | (ft)                  | (tsf)             | (%)                          | After Hrs.                                                                     | ft | (ft)                  |                       | (tsf)             | (%)                          |
| 4" CONCRETE Median Surface                          |                       |                       |                   |                              | Stiff Brown, Moist CLAY LOAM                                                   |    |                       | 9                     | 1.75              | 13                           |
| 3" Bedding Stone and CA6 AGGREGATE                  |                       |                       |                   |                              | (continued)                                                                    |    |                       | 11                    | S                 |                              |
| Medium Stiff Brown, Moist SILTY CLAY LOAM           |                       | 1                     |                   |                              |                                                                                |    |                       | 6                     |                   |                              |
|                                                     |                       | 2                     | 0.8               | 27                           |                                                                                |    |                       | 6                     | 1.4               | 18                           |
|                                                     |                       | 2                     | B                 |                              |                                                                                |    |                       | 9                     | B                 |                              |
| Stiff Brown, Moist SILTY CLAY LOAM                  |                       | 2                     |                   |                              | Stiff Dark Grey, Moist SILTY CLAY                                              |    |                       | 1                     |                   |                              |
|                                                     |                       | 4                     | 1.25              | 17                           |                                                                                |    |                       | 2                     | 1.4               | 19                           |
|                                                     |                       | 4                     | B                 |                              |                                                                                |    |                       | 3                     | B                 |                              |
| Very Stiff Brown and Grey, Moist SILTY CLAY LOAM    |                       | 2                     |                   |                              | Bottom of Hole at 26 feet                                                      |    |                       |                       |                   |                              |
|                                                     |                       | 3                     | 2.05              | 17                           | Free water encountered at 17 feet                                              |    |                       |                       |                   |                              |
|                                                     |                       | 5                     | B                 |                              | To convert "N" value to "N60"<br>multiply by 1.39; Hammer<br>efficiency = 83.4 |    |                       |                       |                   |                              |
|                                                     |                       | 3                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 4                     | 2.0               | 18                           |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 4                     | B                 |                              |                                                                                |    |                       |                       |                   |                              |
| Stiff Grey, Moist SANDY LOAM                        |                       | 3                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 3                     | 1.45              | 19                           |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 5                     | S                 |                              |                                                                                |    |                       |                       |                   |                              |
| Stiff Brown, Grey, and Black, Moist SILTY CLAY LOAM |                       | 1                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 3                     | 1.75              | 24                           |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 4                     | B                 |                              |                                                                                |    |                       |                       |                   |                              |
| Very Stiff Brown, Moist CLAY LOAM                   |                       | 4                     |                   |                              |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 5                     | 2.4               | 24                           |                                                                                |    |                       |                       |                   |                              |
|                                                     |                       | 8                     | S                 |                              |                                                                                |    |                       |                       |                   |                              |
| Stiff Brown, Moist CLAY LOAM                        |                       | 4                     |                   |                              |                                                                                |    |                       |                       |                   |                              |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

MODEL: Default  
FILE NAME: c:\pwworking\illinois\cd09175730978A33\SHS-Distric3\ids.dgn

File Name: S:\MATERIALS\GEOTECHNICAL\UNIT\GINT\PROJECTS\PROJECTS\FILE\WILLIAMSON 1001\POINT LOCATION\78A33\TRAFFIC SIGNALS IL 13 & HALFWAY RD\78A33 MAST ARM 13 & HALFWAY RD GP J Data Template DETEMPLT GDT Date Printed 9/4/24  
Latitude 37.7416774 Longitude -88.9856287 Datum NAD83 Job Number 0-99-012-24

|           |                       |          |   |         |   |
|-----------|-----------------------|----------|---|---------|---|
| USER NAME | * christopher.russeil | DESIGNED | - | REVISED | - |
|           |                       | DRAWN    | - | REVISED | - |
|           |                       | CHECKED  | - | REVISED | - |
| PLOT DATE | * 3/15/2025           | DATE     | - | REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

### SOIL BORING LOG

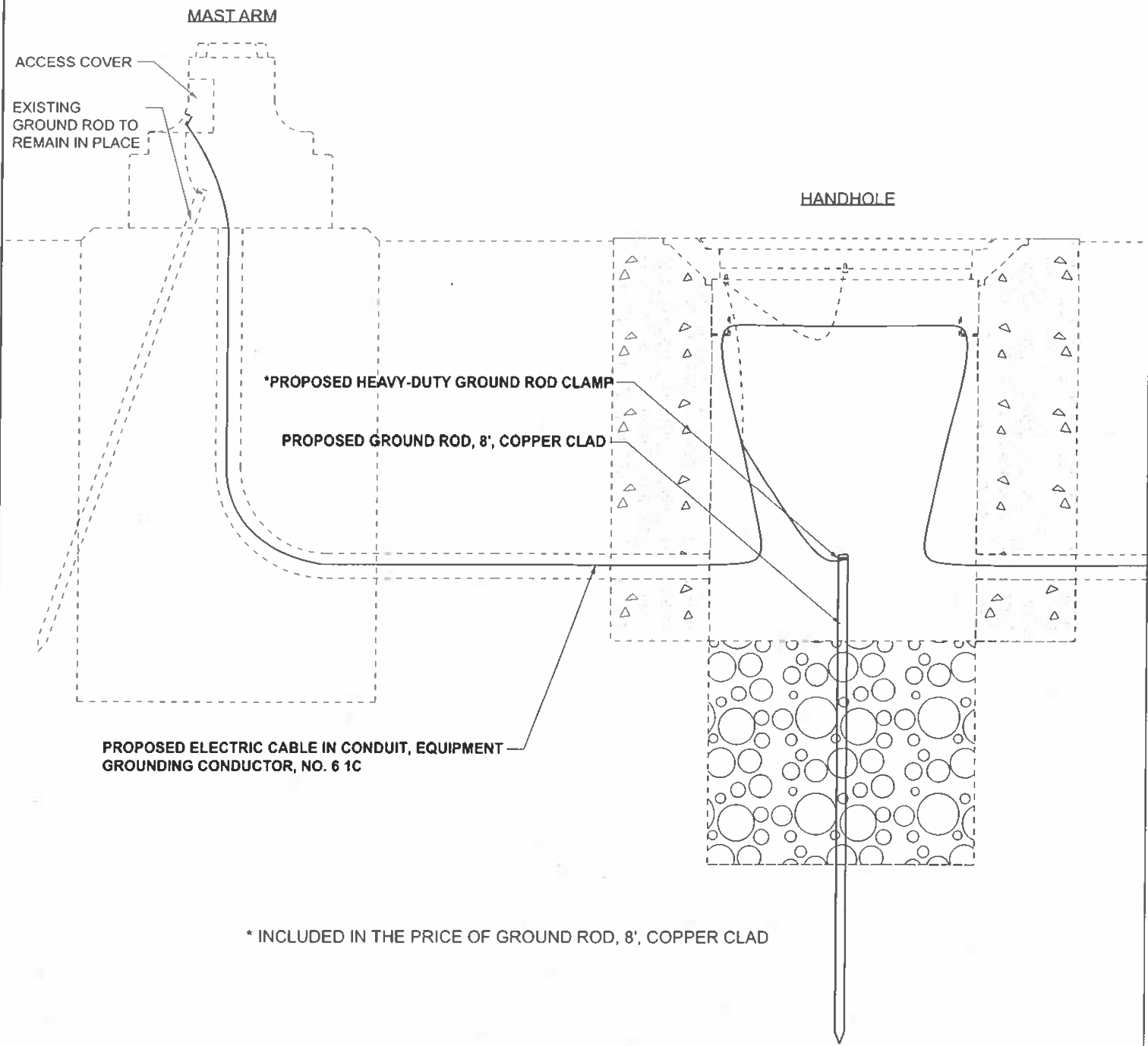
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P.<br>RTE.           | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------------|------------|------------|-----------------|--------------|
| 331                      | (1-X) TS-6 | WILLIAMSON | 31              | 27           |
| CONTRACT NO. 78A33       |            |            |                 |              |
| ILLINOIS FED AID PROJECT |            |            |                 |              |



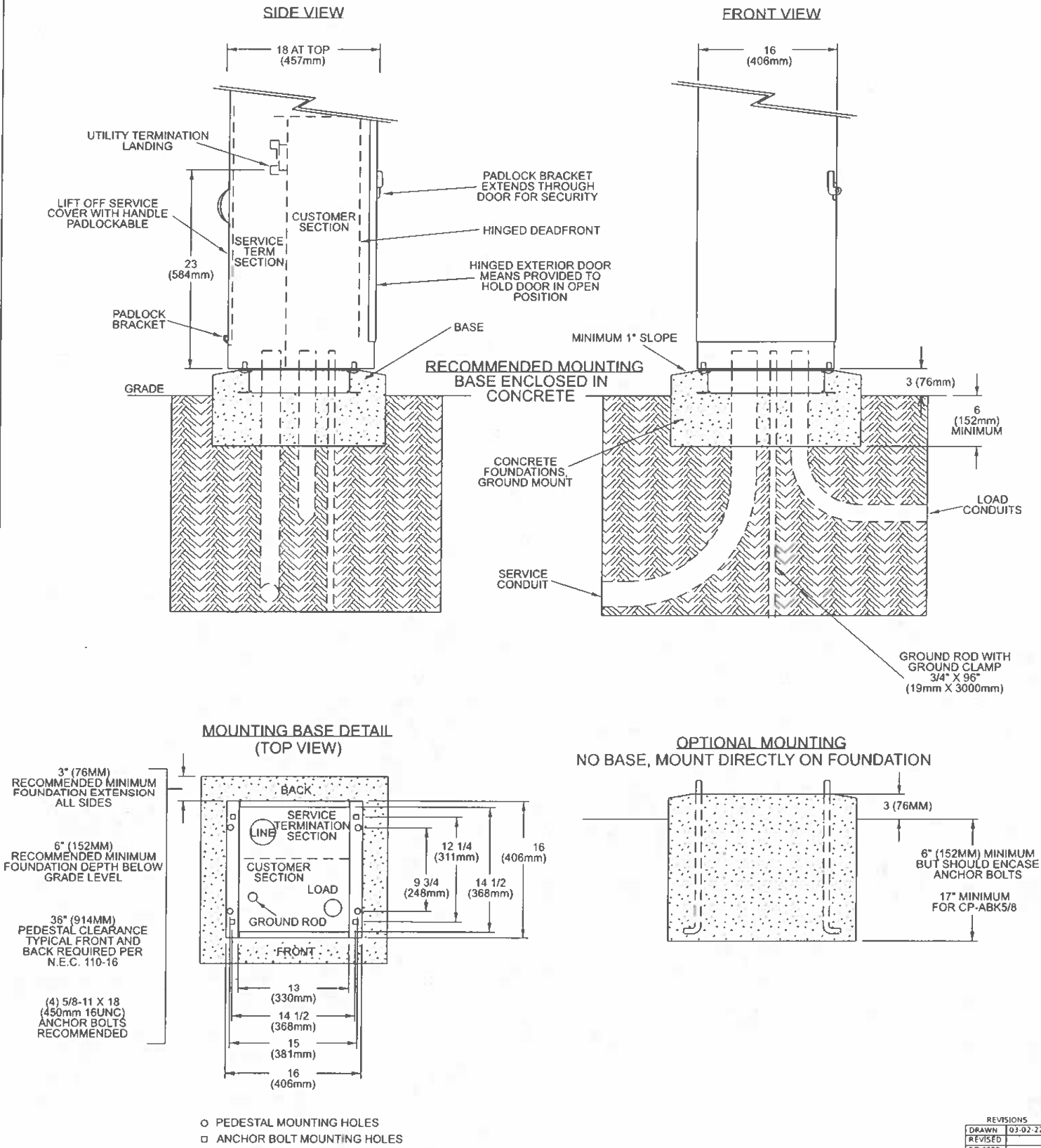


HANDHOLE AND MAST ARM GROUNDING



\* INCLUDED IN THE PRICE OF GROUND ROD, 8', COPPER CLAD

CABINET FOR SERVICE INSTALLATION GROUND MOUNT AND CONCRETE FOUNDATIONS, GROUND MOUNT



○ PEDESTAL MOUNTING HOLES  
□ ANCHOR BOLT MOUNTING HOLES

MODEL: Default  
FILE NAME: c:\gms\work\pwworkstation\user\chd09175730978\A33-Sht6-DetailSht6.dgn

|            |                       |          |   |         |   |
|------------|-----------------------|----------|---|---------|---|
| USER NAME  | * christopher.russell | DESIGNED | - | REVISED | - |
|            |                       | DRAWN    | - | REVISED | - |
|            |                       | CHECKED  | - | REVISED | - |
| PLLOT DATE | 3/15/2025             | DATE     | - | REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL: HANDHOLE AND MAST ARM GROUNDING; CAB FOR  
INSTALLATION GROUND MOUNT, CONCRETE FOUND. GROUND MOUNT

SCALE: SHEET OF SHEETS STA. TO STA.

|                          |            |            |                 |              |
|--------------------------|------------|------------|-----------------|--------------|
| F.A.P.<br>RTE.           | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
| 331                      | (1-X) TS-6 | WILLIAMSON | 31              | 29           |
| CONTRACT NO. 78A33       |            |            |                 |              |
| ILLINOIS FED AID PROJECT |            |            |                 |              |

|                |
|----------------|
| REVISIONS      |
| DRAWN 03-02-22 |
| REVISED        |
| REVISED        |

STD. 9-51



SIGN DETAILS



60x30

"ILLINOIS 13/DEYOUNG" SIGN  
60" X 30" SIGN, 8" LETTERS, FONT T2000 HWYC  
BORDER 0.7" EDGE TO EDGE WITH 1.75" RADIUS



60x18

"HALFWAY RD" SIGN  
60" X 18" SIGN, 8" LETTERS, FONT T2000 HWYC  
BORDER 0.7" EDGE TO EDGE WITH 1.75" RADIUS



R10-5  
24"x30"

MODEL: Default  
FILE NAME: c:\pwwork\pwwork\del\russell\c0917573\0978033-Sht5-DistrictSta.dgn

|           |                     |          |   |         |   |
|-----------|---------------------|----------|---|---------|---|
| USER NAME | christopher.russell | DESIGNED | - | REVISED | - |
|           |                     | DRAWN    | - | REVISED | - |
|           |                     | CHECKED  | - | REVISED | - |
| PLOT DATE | 3/17/2025           | DATE     | - | REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL: STREET SIGNS

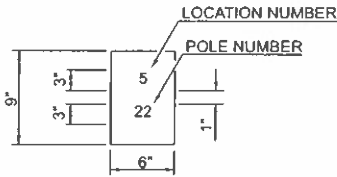
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P.<br>RTE.           | SECTION    | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------------|------------|------------|-----------------|--------------|
| 331                      | (1-X) TS-6 | WILLIAMSON | 31              | 30           |
| CONTRACT NO. 78A33       |            |            |                 |              |
| ILLINOIS FED AID PROJECT |            |            |                 |              |

POLE STANDARDS

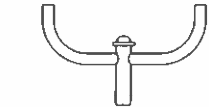
"INSTALL AND ORIENT ARM BRACKET OVER POLE TENON AND FIRMLY HAND TIGHTEN THE TWO SET SCREWS. USE THIRD HOLE IN ARM BRACKET AS A GUIDE TO DRILL A 2 1/4" DIAMETER HOLE THROUGH TENON. INSTALL AND TIGHTEN SELF-TAPPING SCREW. TIGHTEN SET SCREWS AN ADDITIONAL 1/4 TO 3/8 TURN WITH HEX KEY (NOT PROVIDED). INSTALL LOCKNUTS ON SET SCREWS IF THREADED PROJECTION ALLOWS."

POLE SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR 80 MPH WIND LOADING AND 90 LB, 4.0 SQ. FT E.P.A. LUMINAIRE.

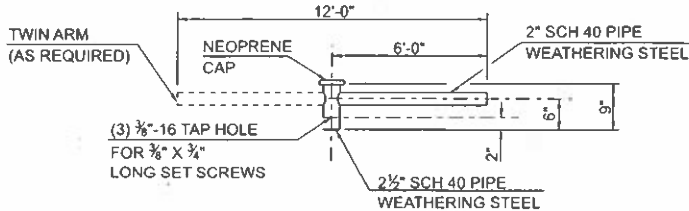


THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION OF EACH NEW LIGHT POLE, AS SHOWN ABOVE, INCIDENTAL TO THE RESPECTIVE LIGHT POLE PAY ITEM IN ACCORDANCE WITH ART, 1069.06

THE LIGHT POLE IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN ART. 1069.06, APPROXIMATELY 7" ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 720001.

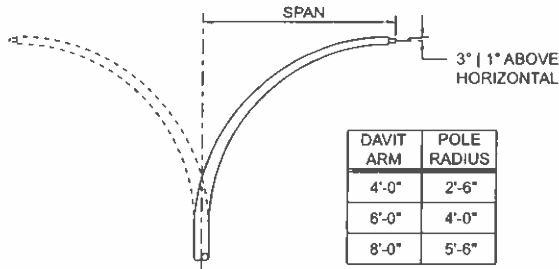


TWIN TENON



TENON MOUNT BRACKET ARM

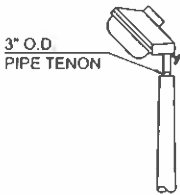
NOTE: SINGLE OR TWIN ARM ASSEMBLY SHALL BE TILTED 3° ABOVE HORIZONTAL.



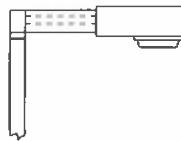
| DAVIT ARM | POLE RADIUS |
|-----------|-------------|
| 4'-0"     | 2'-6"       |
| 6'-0"     | 4'-0"       |
| 8'-0"     | 5'-6"       |

DAVIT ARM (AND OR)

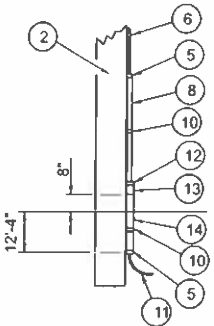
DAVIT ARM-TWIN



TENON



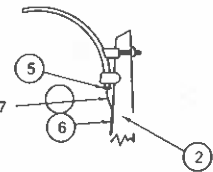
SHORT BRACKET



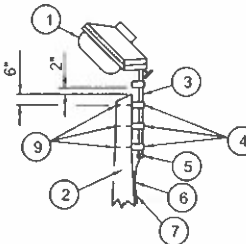
DETAILS FOR UNDERGROUND DISTRIBUTION IF REQUIRED

POLE, WOOD

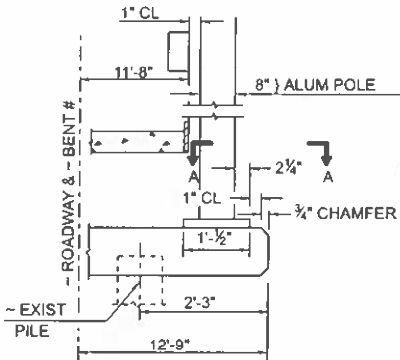
| POLE LENGTH | DEPTH IN GROUND |
|-------------|-----------------|
| 65'-0"      | 12'-0"          |
| 60'-0"      | 10'-0"          |
| 55'-0"      | 9'-0"           |
| 50'-0"      | 8'-0"           |
| 45'-0"      | 7'-0"           |
| 40'-0"      | 6'-6"           |
| 35'-0"      | 6'-0"           |
| 30'-0"      | 5'-6"           |



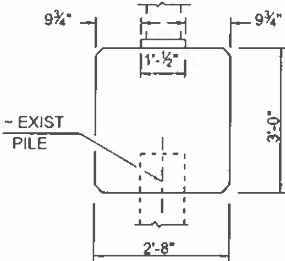
MAST ARM



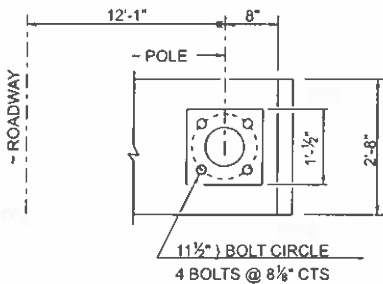
TENON



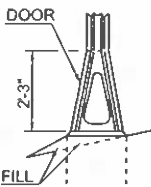
BENT #  
(LOOKING )



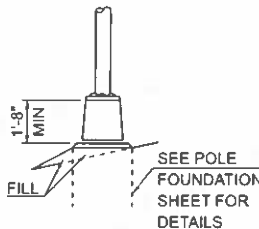
BRIDGE PIER MOUNT



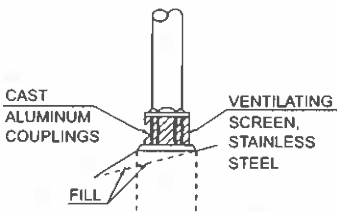
SECTION A-A



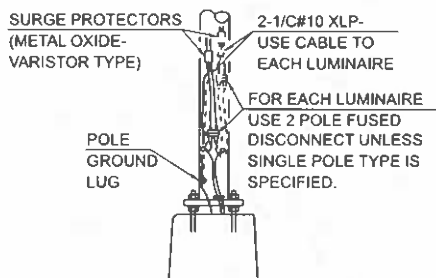
STAINLESS STEEL  
FLAIR BASE



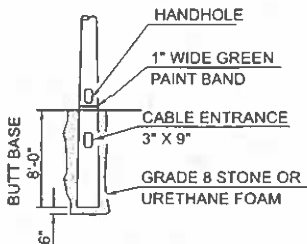
TRANSFORMER BASE  
FRANGIBLE



BREAKAWAY COUPLING



ANCHOR



BUTT BASE

- 1 LUMINAIRE
- 2 WOOD POLE, CLASS 3 OR BETTER
- 3 2 1/2" GALV. STEEL CONDUIT
- 4 SINGLE OFFSET POLE BAND
- 5 CONDUIT BUSHING
- 6 CABLE CLAMPS ON 2' CENTERS
- 7 2/C #12 TYPE USE CABLE
- 8 1" GALV. STEEL CONDUIT 10' IN LENGTH
- 9 3/8" Ø HOT DIPPED GALVANIZED BOLT WITH FLAT WASHER & LOCKNUT (3 REQ'D)
- 10 CONDUIT CLAMPS ON 3' CENTERS
- 11 UNIT DUCT
- 12 THREADED REDUCER
- 13 "C" CONDULET, THREADED
- 14 1 1/2" GALV. STEEL CONDUIT FOR 1 UNIT DUCT OR 3" GALV. STEEL CONDUIT FOR 2 OR 3 UNIT DUCTS.

MODEL: Default  
FILE NAME: c:\pwworkspace\user\17573D97A33-Sht5-DistncStd.dgn

|           |                     |          |   |          |   |
|-----------|---------------------|----------|---|----------|---|
| USER NAME | christopher russell | DESIGNED | - | REVISED  | - |
| DRAWN     | -                   | REVISION | - | REVISION | - |
| CHECKED   | -                   | REVISION | - | REVISION | - |
| DATE      | -                   | REVISION | - | REVISION | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL: STREET SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

|                          |            |            |              |           |
|--------------------------|------------|------------|--------------|-----------|
| F.A.P. RTE.              | SECTION    | COUNTY     | TOTAL SHEETS | SHEET NO. |
| 331                      | (1-X) TS-6 | WILLIAMSON | 31           | 31        |
| CONTRACT NO. 78A33       |            |            |              |           |
| ILLINOIS FED AID PROJECT |            |            |              |           |

STD. 9-12

|         |          |
|---------|----------|
| DRAWN   | 02-09-01 |
| REVISED | 05-06-08 |
| REVISED | 10-21-21 |
| REVISED | 05-04-22 |