

095

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS 01-18-2019 LETTING ITEM 095

|              |           |          |                    |           |
|--------------|-----------|----------|--------------------|-----------|
| F.A.U. RITE. | SECTION   | COUNTY   | TOTAL SHEETS       | SHEET NO. |
| VAR.         | 2018 0021 | WILL     | 29                 | 1         |
|              |           | ILLINOIS | CONTRACT NO. 62G14 |           |

DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

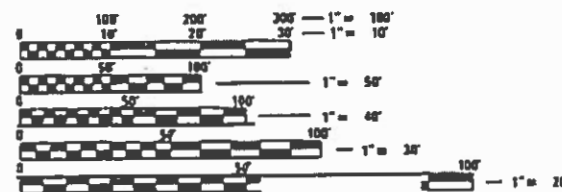
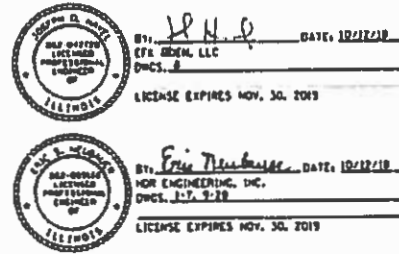
FAP 607 (US 30)  
 CITY OF JOLIET & VILLAGE OF ROCKDALE  
 SECTION 2018-0021  
 PROJECT: STP-R1PL(364)  
 MOVEABLE BRIDGES IN JOLIET AREA  
 BRANDON ROAD TO RUBY STREET FIBER  
 OPTIC CABLE INSTALLATION  
 WILL COUNTY

T35N R10E

C-91-155-18

|   |  |
|---|--|
| <b>DESIGN DESIGNATION: ARTERIAL</b><br>RUBY ST<br>2017 ADT = 20,400<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH | <b>DESIGN DESIGNATION: MINOR COLLECTOR</b><br>JACKSON ST<br>2015 ADT = 8,050<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH |
| <b>CASS ST</b><br>2017 ADT = 15,210<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH                                 | <b>MCDONOUGH ST</b><br>2015 ADT = 10,600<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH                                     |
| <b>JEFFERSON ST</b><br>2017 ADT = 11,410<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH                            | <b>RAILROAD ST</b><br>2017 ADT = 4,000<br>DESIGN SPEED = 40 MPH<br>POSTED SPEED = 40 MPH                                       |
| <b>OTTAWA ST</b><br>2017 ADT = 11,950<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH                               | <b>BRANDON RD</b><br>2015 ADT = 5,500<br>DESIGN SPEED = 35 MPH<br>POSTED SPEED = 35 MPH  |
| <b>CHICAGO ST</b><br>2017 ADT = 14,000<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH                              | <b>DESIGN DESIGNATION: MAJOR COLLECTOR</b><br>JACKSON ST<br>2015 ADT = 8,050<br>DESIGN SPEED = 30 MPH<br>POSTED SPEED = 30 MPH |

PROJECT IS LOCATED  
 IN THE CITY OF JOLIET  
 AND VILLAGE OF ROCKDALE



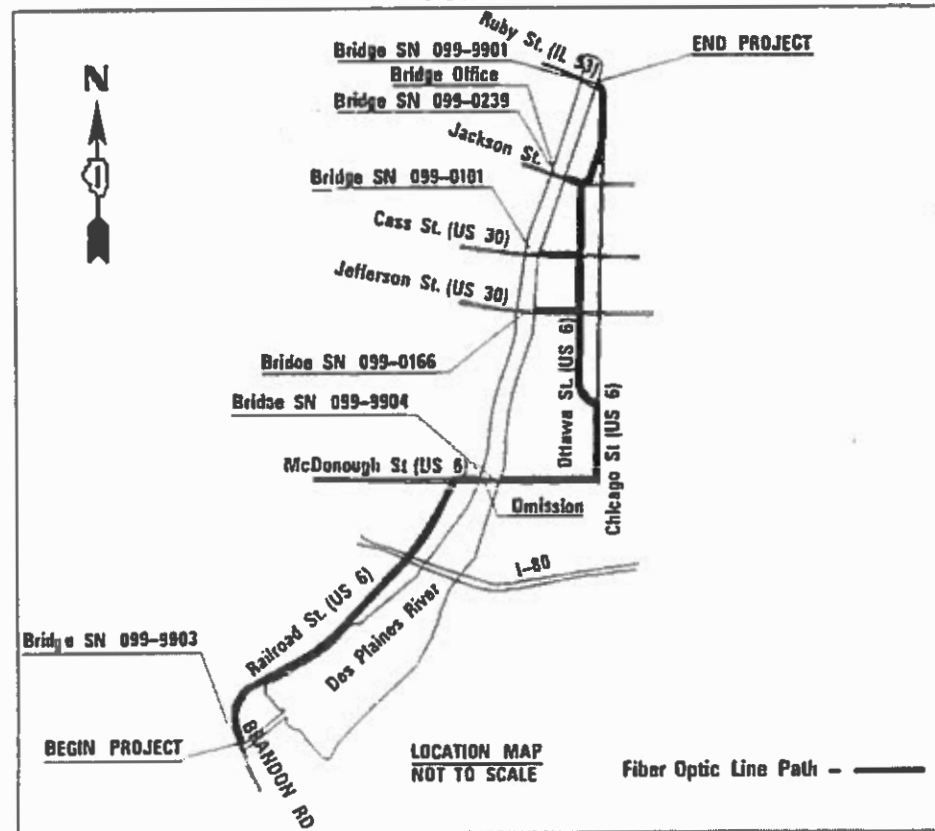
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**HR** 8550 N. Bryn Mawr Ave., Suite 500  
 Chicago, IL 60631  
 773-380-1900

KOR, Inc.  
 DESIGN FIRM REGISTRATION NUMBER 184.001070

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

PROJECT ENGINEER ANA ABREU (847) 705-4482  
 PROJECT MANAGER SERIN KELLER (847) 705-4556  
 CONTRACT NO. 62G14



US 6 / IL 53 LENGTH = 16,130 FT. = 3.05 MILE  
 JACKSON ST LENGTH = 209 FT. = 0.04 MILE  
 CASS ST LENGTH = 712 FT. = 0.13 MILE  
 JEFFERSON ST LENGTH = 809 FT. = 0.15 MILE  
 OMISSION LENGTH = 792 FT. = 0.15 MILE  
 NET LENGTH = 17,860 FT. = 3.38 MILE  
 GROSS LENGTH = 18,652 FT. = 3.50 MILE



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED December 16, 2018

*Anthony A. Ruzhy* REGIONAL ENGINEER  
*Dec 16 2018*  
 ENGINEER OF DESIGN AND ENVIRONMENT

*Paul L. Ch...* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

# INDEX OF SHEETS

## SHEET NO. DESCRIPTION

|         |   |
|---------|---|
| 1       | TITLE SHEET   |
| 2       | INDEX OF SHEETS AND HIGHWAY STANDARDS                   |
| 3       | GENERAL NOTES   |
| 4 - 6   | SUMMARY OF QUANTITIES                                   |
| 7       | TYPICAL SECTIONS  |
| 8       | TRAFFIC CONTROL PLAN GENERAL NOTES AND TYPICAL SECTIONS |
| 9 - 18  | FIBER OPTIC AND RESTORATION PLAN                        |
| 19      | INTERCONNECT SYSTEM TOPOLOGY                            |
| 20      | HANDHOLE DETAIL   |
| 21 - 29 | IDOT DISTRICT 1 STANDARD DRAWINGS                       |

## IDOT STANDARDS REFERENCED

| NUMBER    | DESCRIPTION   |
|-----------|---|
| 000001-07 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                                |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS   |
| 442201-03 | CLASS C AND D PATCHES   |
| 701001-02 | OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY                        |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE     |
| 701101-05 | OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY                     |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS                                 |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY                            |
| 701427-05 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH |
| 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED                                       |
| 701502-09 | URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE               |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN          |
| 701602-10 | URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE         |
| 701606-10 | URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN              |
| 701611-01 | URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN                |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION                                  |
| 701801-06 | SIDEWALK, CORNER OR CROSSWALK CLOSURE                                       |
| 701901-08 | TRAFFIC CONTROL DEVICES   |

|                                 |                             |                   |           |   |   |   |           |                     |                 |              |  |
|---------------------------------|-----------------------------|-------------------|-----------|---|---|---|-----------|---------------------|-----------------|--------------|--|
| FILE NAME =<br>JOLIET-SHT-INDEX | USER NAME = JKJELMA         | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>INDEX OF SHEETS AND HIGHWAY STANDARDS<br/>FIBER OPTIC CABLE INSTALLATION</b> | F.A.U.<br>RTE.                                  | SECTION   | COUNTY              | TOTAL<br>SHEETS | SHEET<br>NO. |  |
| Default                         | PLOT SCALE = 24.0000' / in. | DRAWN - AF        | REVISED - |   |   | VAR.  | 2018-002I | WILL                | 29              | 2            |  |
|                                 | PLOT DATE = 10/12/2018      | CHECKED - JK      | REVISED - |   |   | SCALE: N/A                                      |           | SHEET 1 OF 1 SHEETS |                 | STA. TO STA. |  |
|                                 |                             | DATE - 10/12/2018 | REVISED - |   |   | ILLINOIS FED. AID PROJECT<br>CONTRACT NO. 62G14 |           |                     |                 |              |  |

## GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES. (48 HOUR NOTIFCATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF JOLIET.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE, COUNTY, OR LOCAL MUNICIPAL PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD ALL EXISTING PAVEMENT, PAVEMENT MARKING, AND ROADSIDE CONDITIONS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED DURING RESTORATION ACTIVITIES TO THEIR ORIGINAL CONDITIONS, DIMENSIONS, AND SLOPES.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND UTILITIES IN THE FIELD PRIOR TO BEGINNING ANY WORK.
6. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE IN EFFECT AT THE BID OPENING TIME AND ALL APPLICABLE STATE AND/OR LOCAL CODES.
7. THE LAYOUT FOR THE FIBER OPTIC LINE IS A GENERAL LAYOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE FIBER OPTIC LINE, HANDHOLES, AND OTHER EQUIPMENT PRIOR TO BEGINNING ANY CONSTRUCTION. THE LAYOUT SHALL BE SUCH THAT THE MINIMUM DISTURBANCE POSSIBLE TO THE EXISTING CONDITIONS AND EXISTING UTILITIES IS MAINTAINED. LOCATIONS OF ALL FIBER OPTIC LINES, AND UTILITY STRUCTURES SHALL BE LAYED OUT FOR APPROVAL BY THE ENGINEER. DISTURBANCE TO ANY EXISTING CONDITIONS AND EXISTING UTILITIES NOT APPROVED BY THE ENGINEER SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE.
8. THE CONTRACTOR SHALL UTILIZE A DIRECTIONAL BORE METHOD FOR THE FIBER OPTIC CONDUIT INSTALLATION TO PREVENT IMPACTS TO MOTORISTS AND DISTURBANCE OF THE EXISTING CONDITIONS. OPEN CUT TRENCHES MAY BE UTILIZED IN THE RAILROAD STREET AGGREGATE SHOULDER AND IN AREAS APPROVED BY THE ENGINEER.
9. HANDHOLE AND JUNCTION BOXES SPACING SHALL BE A MAXIMUM 1,000 FEET.
10. LOCATIONS WHERE CONDUIT IS INSTALLED VIA AN OPEN TRENCH METHOD THE CONTRACTOR SHALL INSTALL WARNING TAPE IN ACCORDANCE WITH IDOT DISTRICT 1 STANDARD BE-702.
11. THE CONTROL CENTER FOR THE BRIDGES UTILITIZING THE PROPOSED FIBER OPTIC SYSTEM CONSTRUCTED IN THIS CONTRACT IS LOCATED AT 105 BRIDGE STREET, JOLIET, IL 60435.
12. THE CONTRACTOR WILL NOT BE REQUIRED TO PROVIDE AN ENGINEER'S FIELD OFFICE. IDOT WILL ASSIGN A FIELD OFFICE FOR THE ENGINEER.
13. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT A PORTION OF THE WORK WILL BE PERFORMED WITHIN WILL COUNTY RIGHT-OF-WAY ALONG BRANDON ROAD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCURE ALL PERMITS INCLUDING WILL COUNTY DIVISION OF TRANSPORTATION PERMTS IN ACCORDANCE WITH ARTICLE 107.04.
14. THE CONTRACTOR SHALL NOT PERFORM ANY EXCAVATION FOR BORING PITS WITHIN 10 FEET OF BRANDON ROAD. IF ANY EXCAVATION WITH A DEPTH OF MORE THAN 2 FEET ALONG BRANDON ROAD IS REQUIRED AS DETERMINED BY THE ENGINEER THE FOLLOWING REQUIREMENTS SHALL BE MET:
  - A. EXCAVATION BETWEEN 2 FEET AND 10 FEET FROM THE EDGE OF PAVEMENT THE TRENCH SHALL BE BACKFILLED WITH TRENCH BACKFILL OR CLSM.
  - B. EXCAVATION BETWEEN 0 FEET AND 2 FEET FROM THE EDGE OF PAVEMENT THE TRENCH SHALL BE BACKFILL WITH ONLY CLSM.
 THE BACKFILL SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED. TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 208.02 AND CLSM SHALL BE IN ACCORDANCE WITH ARTICLES 593.02, 593.03, AND 593.04.
15. RESTORATION, EROSION CONTROL, AND EXPLORATION FOR CONDUIT AND FIBER OPTIC CABLE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. EXPLORATION AND RESTORATION FOR THE DISTURBANCE CAUSED BY THE CONSTRUCTION OF HANDHOLES, JUNCTION BOXES, OTHER STRUCTURES, EROSION CONTROL, AND BORING PITS SHALL BE PERFORMED UTILIZING THE ITEMS BELOW FOR WHICH NOMINAL QUANTITIES HAVE BEEN PROVIDED. QUANTITIES PROVIDED ARE BASED ON RESTORATION FOR HANDHOLE LOCATIONS AND A SINGLE BORING PIT WHERE THE DISTANCE BETWEEN HANDHOLES IS GREATER THAN 500 FT. RESTORATION FOR AREAS DISTURBED BEYOND A 15 FT X 10 FT AREA CENTERED ON THE STRUCTURE OR DIRECTIONAL BORING PIT BEING CONSTRUCTED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT BE PAID FOR UNLESS APPROVED BY THE ENGINEER PRIOR TO ANY EXCAVATION OR REMOVAL OF EXISTING ITEMS. THE CONTRACTOR SHALL PERFORM OPERATIONS TO MINIMIZE THE AMOUNT OF NECESSARY RESTORATION WORK.
  - 20101100, TREE TRUNK PROTECTION, EACH
  - 20101200, TREE ROOT PRUNING, EACH
  - 20101300, TREE PRUNING (1 TO 10 INCH DIAMETER), EACH
  - 20101350, TREE PRUNING (OVER 10 INCH DIAMETER), EACH
  - 20200100, EARTH EXCAVATION, CU YD
  - 20200200, ROCK EXCAVATION, CU YD
  - 20201200, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, CU YD
  - 20400800, FURNISHED EXCAVATION, CU YD
  - 21101505, TOPSOIL EXCAVATION AND PLACEMENT, CU YD
  - 21301048, EXPLORATION TRENCH 48" DEPTH, FOOT
  - 25200110, SODDING, SALT TOLERANT, SQ YD
  - 28000400, PERIMETER EROSION BARRIER, FOOT
  - 28000510, INLET FILTERS, EACH
  - 40601005, HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, TON
  - 42001300, PROTECTIVE COAT, SQ YD
  - 42400200, PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SQ FT
  - 44000600, SIDEWALK REMOVAL, SQ FT
  - 44002209, HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/4", SQ YD
  - 44201349, CLASS C PATCHES, TYPE I, 10 INCH, SQ YD
  - 44201353, CLASS C PATCHES, TYPE II, 10 INCH, SQ YD
  - 44201357, CLASS C PATCHES, TYPE III, 10 INCH, SQ YD
  - 44201359, CLASS C PATCHES, TYPE IV, 10 INCH, SQ YD
  - 78000100, THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS, SQ FT
  - 78009000, MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS, SQ FT
  - X4400220, CURB REMOVAL AND REPLACEMENT, FOOT
16. FOR REPLACEMENT OF ANY CURB AND GUTTER, THE CONTRACTOR SHALL MATCH THE HORIZONTAL AND VERTICAL DIMENSIONS OF THE EXISTING ADJACENT CURB AND GUTTER TO PROVIDE A SMOOTH AND CONTINUOUS SECTION. THE COST OF THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR CURB REMOVAL AND REPLACEMENT.
17. EXISTING PAVEMENT MARKINGS INCLUDING ALL PAVEMENT MARKING LINES AND SYMBOLS REMOVED SHALL BE REINSTALLED IN THEIR ORIGINAL GEOMETRY AND DIMENSIONS AND SHALL BE PAID FOR AT THE UNIT PRICE FOR THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS OR MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS AND CONSTRUCTED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS.
18. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DRILLING THROUGH BEDROCK, BOULDERS, AND OTHER HARD EARTH MATERIALS MAY BE REQUIRED. IT IS ESTIMATED 15 PERCENT OF THE TOTAL FIBER OPTIC LENGTH WILL REQUIRE BORING THROUGH ROCK.

|   |                             |                   |           |   |   |                     |      |               |         |           |                 |              |   |
|---|-----------------------------|-------------------|-----------|---|---|---------------------|------|---------------|---------|-----------|-----------------|--------------|---|
| FILE NAME =<br>JOLIET-SHT-GENERAL NOTES | USER NAME = JKJELMA         | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>GENERAL NOTES<br/>FIBER OPTIC CABLE INSTALLATION</b> |                     |      | F.A.U<br>RTE. | SECTION | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |   |
| Default                                 | PLOT SCALE = 24.0000' / in. | DRAWN - AF        | REVISED - |   | SCALE: N/A  | SHEET 1 OF 1 SHEETS | STA. | TO STA.       | VAR.    | 2018-002I | WILL            | 29           | 3 |
|   | PLOT DATE = 10/18/2018      | CHECKED - JK      | REVISED - |   | CONTRACT NO. 62G14                                      |                     |      |               |         |           |                 |              |   |
|   |                             | DATE - 10/12/2018 | REVISED - |   | ILLINOIS FED. AID PROJECT                               |                     |      |               |         |           |                 |              |   |

| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | CONSTR. CODE             |                          |
|----------|--|-------|----------------|--------------------------|--------------------------|
|          |  |       |                | 80% FED<br>20% STATE     |                          |
|          |  |       |                | ROADWAY<br>0006<br>URBAN | UTILITY<br>0043<br>URBAN |
| 20101100 | TREE TRUNK PROTECTION                        | EACH  | 94             | 94                       |                          |
| 20101200 | TREE ROOT PRUNING                            | EACH  | 45             | 45                       |                          |
| 20101300 | TREE PRUNING (1 TO 10 INCH DIAMETER)         | EACH  | 20             | 20                       |                          |
| 20101350 | TREE PRUNING (OVER 10 INCH DIAMETER)         | EACH  | 20             | 20                       |                          |
| 20200100 | EARTH EXCAVATION                             | CU YD | 150            | 150                      |                          |
| 20200200 | ROCK EXCAVATION                              | CU YD | 75             | 75                       |                          |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL  | CU YD | 25             | 25                       |                          |
| 20400800 | FURNISHED EXCAVATION                         | CU YD | 70             | 70                       |                          |
| 21101505 | TOPSOIL EXCAVATION AND PLACEMENT             | CU YD | 40             | 40                       |                          |
| 21301048 | EXPLORATION TRENCH 48" DEPTH                 | FOOT  | 600            |                          | 600                      |
| 25200110 | SODDING, SALT TOLERANT                       | SQ YD | 270            | 270                      |                          |
| 28000400 | PERIMETER EROSION BARRIER                    | FOOT  | 400            | 400                      |                          |
| 28000510 | INLET FILTERS                                | EACH  | 30             | 30                       |                          |
| 40601005 | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES     | TON   | 7              | 7                        |                          |
| 42001300 | PROTECTIVE COAT                              | SQ YD | 386            | 386                      |                          |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH     | SQ FT | 1,575          | 1,575                    |                          |
| 44000600 | SIDEWALK REMOVAL                             | SQ FT | 1,575          | 1,575                    |                          |
| 44002209 | HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/4" | SQ YD | 720            | 720                      |                          |
| 44201349 | CLASS C PATCHES, TYPE I, 10 INCH             | SQ YD | 180            | 180                      |                          |
| 44201353 | CLASS C PATCHES, TYPE II, 10 INCH            | SQ YD | 180            | 180                      |                          |
| 44201357 | CLASS C PATCHES, TYPE III, 10 INCH           | SQ YD | 180            | 180                      |                          |

• SPECIALTY ITEM

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>JOLIET-SHT-S00-01.dgn | USER NAME = JKJELMA         | DESIGNED - NK     | REVISED - |
|                                      |                             | DRAWN - AF        | REVISED - |
| Default                              | PLOT SCALE = 2.0000' / 1" = | CHECKED - JK      | REVISED - |
|                                      | PLOT DATE = 10/12/2018      | DATE - 10/12/2018 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
FIBER OPTIC CABLE INSTALLATION**

SCALE: N/A      SHEET 1 OF 1 SHEETS      STA.      TO STA.

|                           |           |        |                    |              |
|---------------------------|-----------|--------|--------------------|--------------|
| F.A.U<br>RTE.             | SECTION   | COUNTY | TOTAL<br>SHEETS    | SHEET<br>NO. |
| VAR.                      | 2018-0021 | WILL   | 29                 | 4            |
|                           |           |        | CONTRACT NO. 62G14 |              |
| ILLINOIS FED. AID PROJECT |           |        |                    |              |

| CODE NO.   | ITEM  | UNIT   | TOTAL QUANTITY | CONSTR. CODE             |                          |
|------------|---|--------|----------------|--------------------------|--------------------------|
|            |   |        |                | 80% FED<br>20% STATE     |                          |
|            |   |        |                | ROADWAY<br>0006<br>URBAN | UTILITY<br>0043<br>URBAN |
| 44201359   | CLASS C PATCHES, TYPE IV, 10 INCH                                     | SQ YD  | 180            | 180                      |                          |
| 48101500   | AGGREGATE SHOULDERS, TYPE B 6"  | SQ YD  | 2,223          | 2,223                    |                          |
| • 66900530 | SOIL DISPOSAL ANALYSIS  | EACH   | 5              | 5                        |                          |
| • 66901001 | REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN                            | L SUM  | 1              | 1                        |                          |
| • 66901002 | ON-SITE MONITORING OF REGULATED SUBSTANCES                            | CAL DA | 45             | 45                       |                          |
| • 66901003 | REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT                        | L SUM  | 1              | 1                        |                          |
| • 66900200 | NON-SPECIAL WASTE DISPOSAL  | CU YD  | 250            | 250                      |                          |
| 67100100   | MOBILIZATION  | L SUM  | 1              | 1                        |                          |
| 70300100   | SHORT TERM PAVEMENT MARKING   | FOOT   | 4,000          | 4,000                    |                          |
| 70300150   | SHORT TERM PAVEMENT MARKING REMOVAL                                   | SQ FT  | 1,334          | 1,334                    |                          |
| • 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS                  | SQ FT  | 150            | 150                      |                          |
| • 78009000 | MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS              | SQ FT  | 150            | 150                      |                          |
| • 78100300 | REPLACEMENT REFLECTOR   | EACH   | 50             | 50                       |                          |
| 78300200   | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL                             | EACH   | 50             | 50                       |                          |
| 81028240   | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.                        | FOOT   | 8,969          |                          | 8,969                    |
| 81028790   | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.            | FOOT   | 2,199          |                          | 2,199                    |
| 81101005   | CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL   | FOOT   | 95             |                          | 95                       |
| 81300960   | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12" | EACH   | 2              |                          | 2                        |
| 81400100   | HANDHOLE  | EACH   | 15             |                          | 15                       |
| 81400200   | HEAVY-DUTY HANDHOLE   | EACH   | 23             |                          | 23                       |

• SPECIALTY ITEM

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>JOLIET-SHT-500-02.dgn | USER NAME = JKJELMA         | DESIGNED - NK     | REVISED - |
|                                      |                             | DRAWN - AF        | REVISED - |
| Default                              | PLOT SCALE = 2.0000' / 1" = | CHECKED -         | REVISED - |
|                                      | PLOT DATE = 10/17/2018      | DATE - 10/12/2018 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
FIBER OPTIC CABLE INSTALLATION**

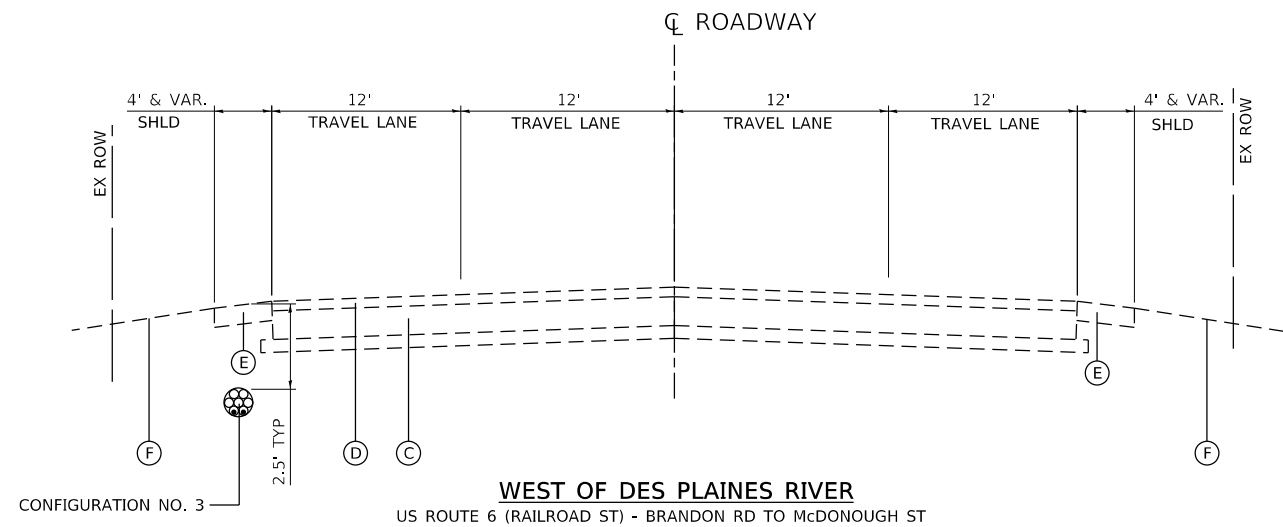
SCALE: N/A SHEET 2 OF 3 SHEETS STA. TO STA.

|                           |           |        |                    |              |
|---------------------------|-----------|--------|--------------------|--------------|
| F.A.U<br>RTE.             | SECTION   | COUNTY | TOTAL<br>SHEETS    | SHEET<br>NO. |
| VAR.                      | 2018-002I | WILL   | 29                 | 5            |
|                           |           |        | CONTRACT NO. 62G14 |              |
| ILLINOIS FED. AID PROJECT |           |        |                    |              |

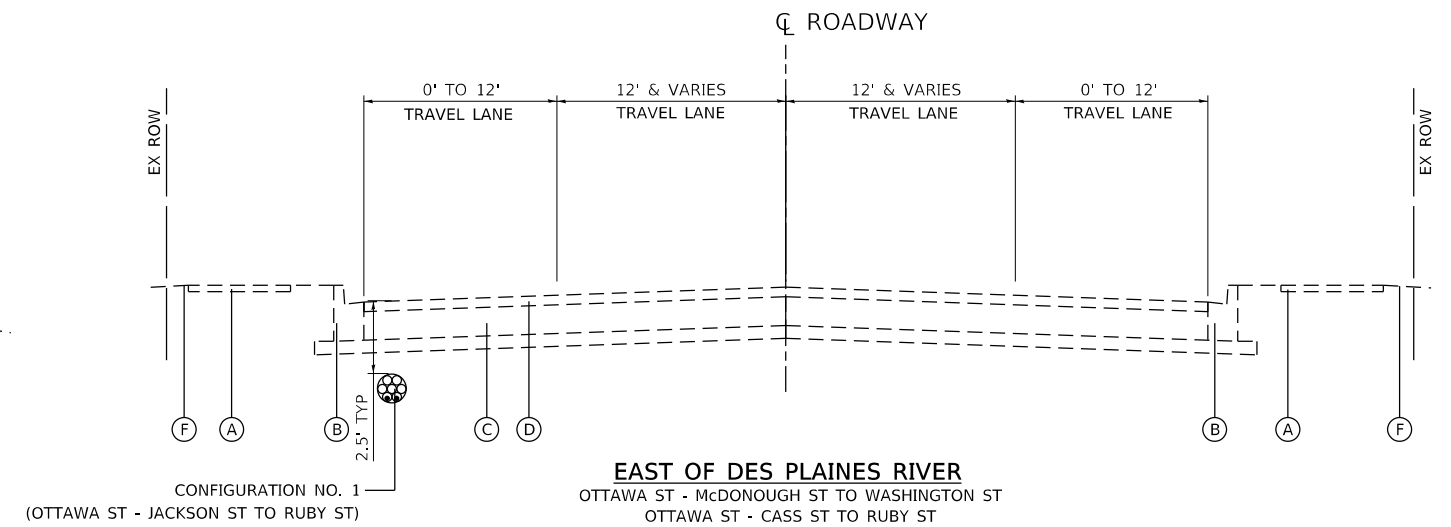
| CODE NO.    | ITEM   | UNIT   | TOTAL QUANTITY | CONSTR. CODE             |                          |
|-------------|--|--------|----------------|--------------------------|--------------------------|
|             |  |        |                | 80% FED<br>20% STATE     |                          |
|             |  |        |                | ROADWAY<br>0006<br>URBAN | UTILITY<br>0043<br>URBAN |
| X0327980    | PAVEMENT MARKING REMOVAL - WATER BLASTING          | SQ FT  | 1,334          | 1,334                    |                          |
| X1400301    | FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE   | FOOT   | 49,324         |                          | 49,324                   |
| X4021000    | TEMPORARY ACCESS (PRIVATE ENTRANCE)                | EACH   | 4              | 4                        |                          |
| X4022000    | TEMPORARY ACCESS (COMMERCIAL ENTRANCE)             | EACH   | 4              | 4                        |                          |
| X4400220    | CURB REMOVAL AND REPLACEMENT                       | FOOT   | 100            | 100                      |                          |
| X7010216    | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)          | L SUM  | 1              | 1                        |                          |
| 70107025    | CHANGEABLE MESSAGE SIGN                            | CAL DA | 280            | 280                      |                          |
| X8100863    | INTERCEPT EXISTING CONDUIT                         | EACH   | 7              |                          | 7                        |
| X8101100    | UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS | FOOT   | 18,047         |                          | 18,047                   |
| Z0013798    | CONSTRUCTION LAYOUT                                | L SUM  | 1              |                          | 1                        |
| Z0030850    | TEMPORARY INFORMATION SIGNING                      | SQ FT  | 278            | 278                      |                          |
| ** Z0076600 | TRAINEES   | HOUR   | 500            | 500                      |                          |
| ** Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE                 | HOUR   | 500            | 500                      |                          |

\* SPECIALTY ITEM  
 \*\* =0042

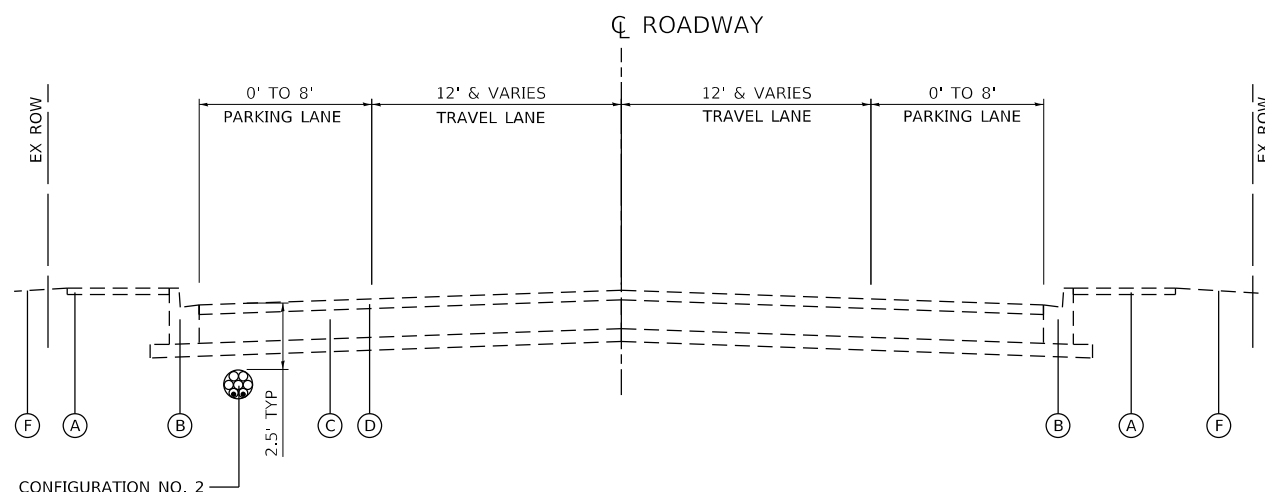
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|--------------------------------------|-----------------------------|-------------------|-----------|---|---|--------------------|---------------------|--------|-----------------|---------------------------|--|
| FILE NAME =<br>JOLIET-SHT-500-03.dgn | USER NAME = JKJELMA         | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES<br/>FIBER OPTIC CABLE INSTALLATION</b> | F.A.U<br>RTE.      | SECTION             | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO.              |  |
| Default                              | PLOT SCALE = 2.0000' / 1in. | DRAWN - AF        | REVISED - |   |   | VAR.               | 2018-002I           | WILL   | 29              | 6                         |  |
|                                      | PLOT DATE = 10/18/2018      | CHECKED - JK      | REVISED - |   |   | CONTRACT NO. 62G14 |                     |        |                 |                           |  |
|                                      |                             | DATE - 10/12/2018 | REVISED - |   |   | SCALE: N/A         | SHEET 3 OF 3 SHEETS | STA.   | TO STA.         | ILLINOIS FED. AID PROJECT |  |



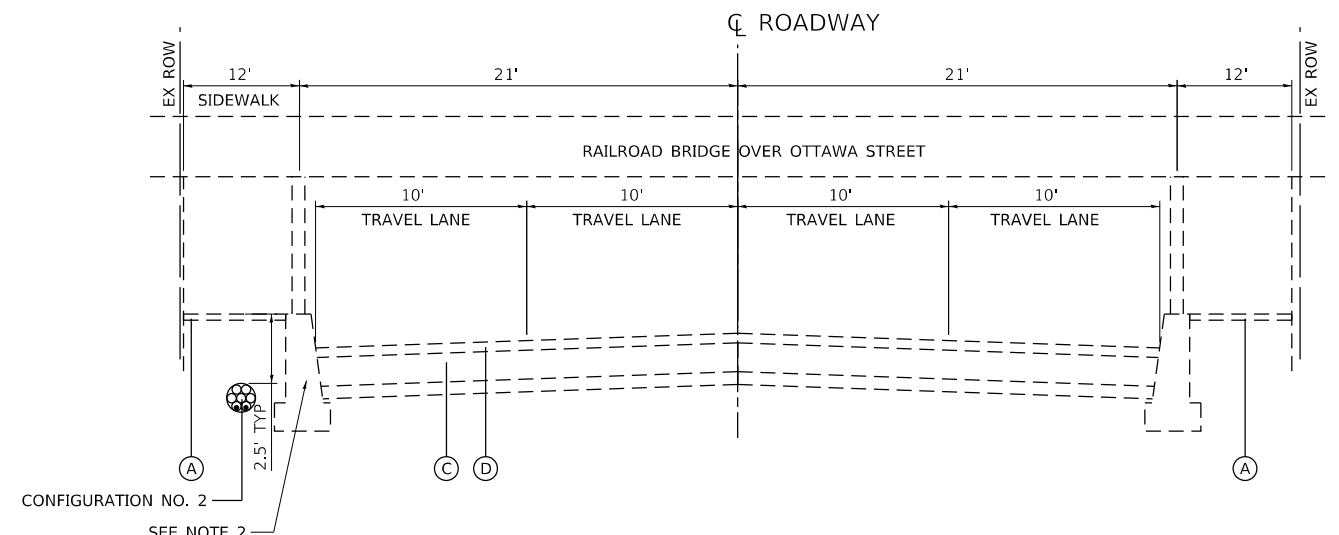
**WEST OF DES PLAINES RIVER**  
US ROUTE 6 (RAILROAD ST) - BRANDON RD TO McDONOUGH ST



**EAST OF DES PLAINES RIVER**  
OTTAWA ST - McDONOUGH ST TO WASHINGTON ST  
OTTAWA ST - CASS ST TO RUBY ST  
McDONOUGH ST - BRIDGE OVER DES PLAINES RIVER TO OTTAWA ST

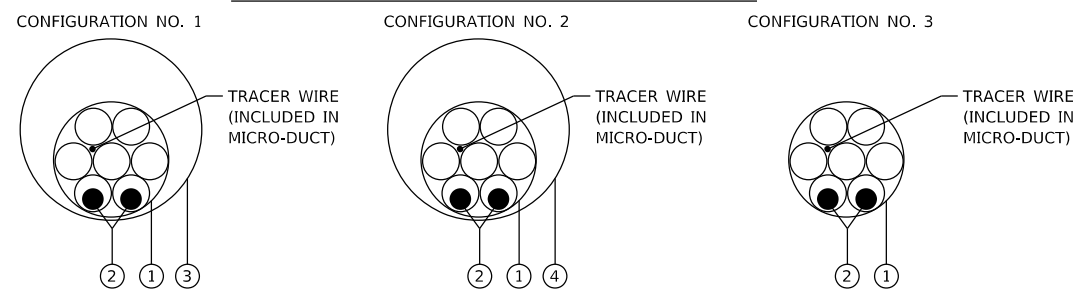


**EAST OF DES PLAINES RIVER WITH PARKING LANES**  
OTTAWA ST - WASHINGTON ST TO CASS ST



**EAST OF DES PLAINES RIVER AT METRA RAILROAD BRIDGE**  
OTTAWA ST - MARION ST TO WASHINGTON ST

**FIBER OPTIC CABLE AND CONDUIT SECTION**



**EXISTING ROADWAY LEGEND**

- (A) SIDEWALK, 5"
- (B) CURB AND GUTTER, TYPE B-6.12
- (C) PAVEMENT, 8"
- (D) HMA SURFACE, 2"
- (E) EXISTING AGGREGATE SHOULDER 6"
- (F) EXISTING GROUND

**PROPOSED FIBER OPTIC AND CONDUIT LEGEND**

- (1) UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
- (2) FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
- (4) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)

**HMA MIXTURE REQUIREMENTS CHART**

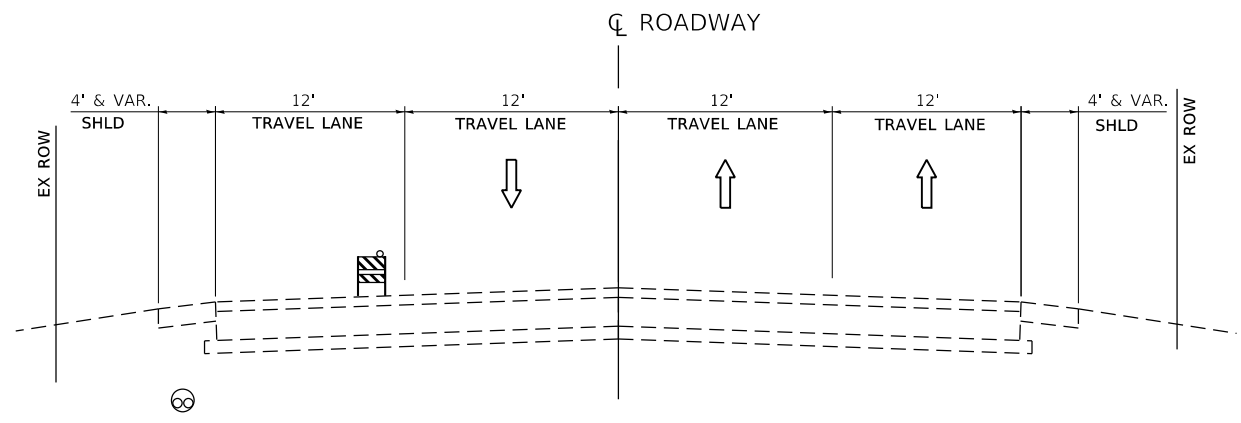
| OPERATION                                | MIXTURE TYPE   | AIR VOIDS (%) @ NDES | QUALITY MANAGEMENT PROGRAM (QMP) |
|--|--|----------------------|----------------------------------|
| HOT-MIX ASPHALT REPLACEMENT OVER PATCHES | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) | 4% @ 70 GYR.         | QC/QA                            |

QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

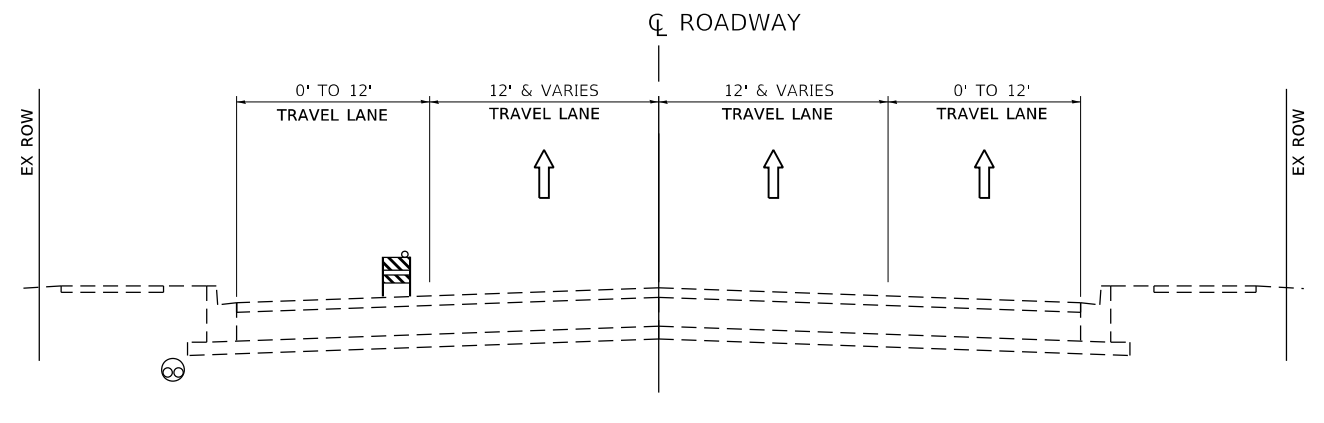
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

**NOTE:**

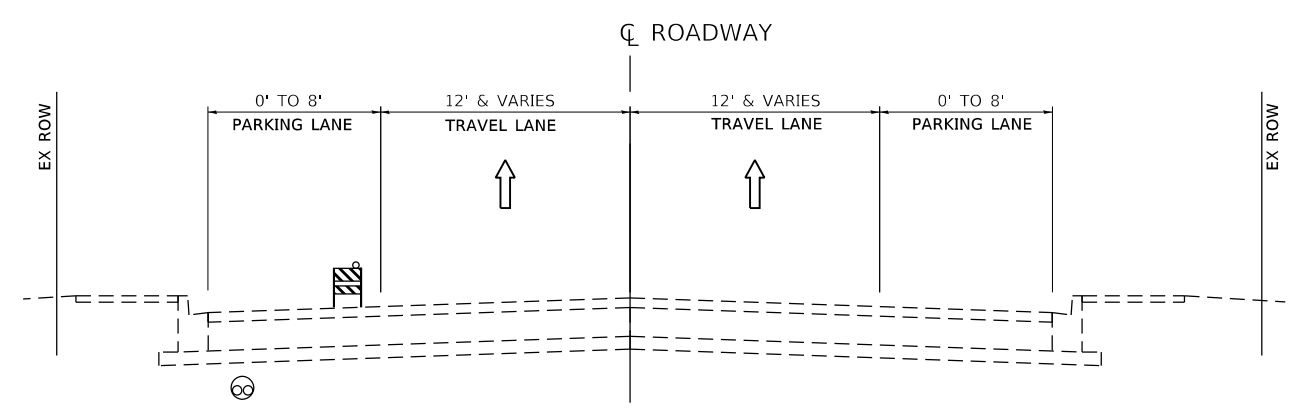
1. EXISTING PAVEMENT AND SIDEWALK THICKNESSES ARE BASED ON ASSUMED DEPTHS. ACTUAL THICKNESSES MAY VARY.
2. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS NOT TO DISTURB ANY STRUCTURAL ELEMENTS OF THE EXISTING RAILROAD BRIDGE STRUCTURE.
3. CLASS C PATCHES, 10 INCH. OF THE TYPE SPECIFIED SHALL BE UTILIZED AS DIRECTED BY THE ENGINEER AND SHALL UTILIZE HIGH EARLY STRENGTH CONCRETE. PAVEMENT PATCHES SHALL BE OPEN TO TRAFFIC A MINIMUM OF 72 HOURS FROM WHEN THE PATCH IS POURED.
4. HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (40601005) SHALL BE A MINIMUM OF 2-1/4" INCHES AND UTILIZED ALONG ALL ROADWAYS WITH AN EXISTING BITUMINOUS SURFACE. THIS ITEM IS TO BE CONSTRUCTED OVER CLASS C PATCHES, 10 INCH. OF THE TYPE SPECIFIED.
5. FIBER OPTIC CONFIGURATIONS SHOWN ALONG VARIOUS ROUTES ARE THE TYPICAL CONFIGURATIONS USED. SEE FIBER OPTIC AND RESTORATION PLAN FOR CONFIGURATIONS TO BE CONSTRUCTED AT EACH LOCATION.



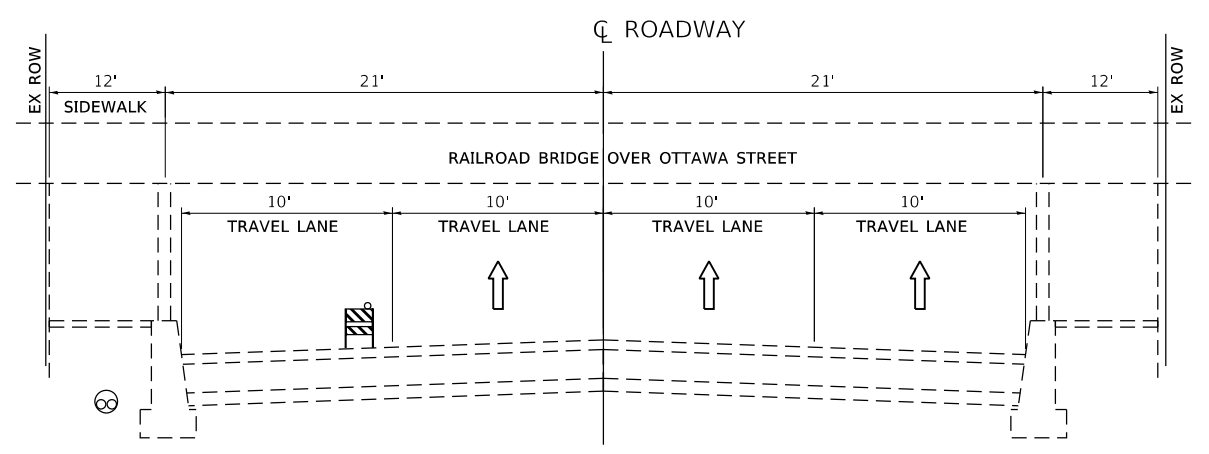
**WEST OF DES PLAINES RIVER**  
US ROUTE 6 (RAILROAD ST) - BRANDON RD TO McDONOUGH ST



**EAST OF DES PLAINES RIVER**  
OTTAWA ST - McDONOUGH ST TO WASHINGTON ST  
OTTAWA ST - CASS ST TO RUBY ST  
McDONOUGH ST - RAILROAD ST TO OTTAWA ST



**EAST OF DES PLAINES RIVER WITH PARKING LANES**  
OTTAWA ST - WASHINGTON ST TO CASS ST



**EAST OF DES PLAINES RIVER AT METRA RAILROAD BRIDGE**  
OTTAWA ST - MARION ST TO WASHINGTON ST

**TRAFFIC CONTROL GENERAL NOTES**

1. THE CONTRACTOR MUST SUBMIT A PLAN SHOWING PROPOSED LOCATIONS OF BORING EQUIPMENT, LANE CLOSURES, HANDHOLES, EXPLORATION TRENCHES, ETC. ALONG WITH TRAFFIC CONTROL STANDARDS TO BE USED TO THE ENGINEER FOR APPROVAL AT LEAST 5 WORKING DAYS IN ADVANCE OF BEGINNING WORK. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE ENGINEER FOR ALL LANE CLOSURES 48 HOURS IN ADVANCE OF PLACING A LANE CLOSURE.
2. THE CONTRACTOR SHALL USE TRAFFIC CONTROL STANDARDS LISTED IN THE "TRAFFIC CONTROL PLAN" SPECIFICATION.
3. ALL TRAFFIC CONTROL WILL BE PAID FOR AT THE CONTRACT LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL). SEE "TRAFFIC CONTROL AND PROTECTION (ARTERIALS)" SPECIFICATION.
4. WHENEVER POSSIBLE THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO PARKING LANES, SHOULDERS, OR PARKWAYS. A MINIMUM OF ONE 11-FOOT-WIDE LANE MUST REMAIN OPEN TO TRAFFIC AT ALL TIMES.
5. ALL TRAVEL LANES MUST BE OPEN TO TRAFFIC DURING NON-WORKING HOURS EXCEPT AS APPROVED BY THE ENGINEER.
6. ACCESS MUST BE MAINTAINED TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
7. ALL OPEN HOLES SHALL BE FILLED WITH AGGREGATE OR COVERED WITH STEEL PLATES SUITABLE TO CARRY TRAFFIC DURING NON-WORKING HOURS. ALL PATCHES OR HANDHOLES IN TRAFFIC LANES SHALL BE COVERED WITH STEEL PLATES SUITABLE TO CARRY TRAFFIC UNTIL CONCRETE HAS REACHED REQUIRED STRENGTH.
8. TEMPORARY PAVEMENT MARKINGS SHALL BE USED IF A LANE CLOSURE WILL BE IN PLACE FOR LONGER THAN 5 WORKING DAYS. TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TAPE, TYPE III. A NOMINAL QUANTITY HAS BEEN PROVIDED.
9. ANY RAISED REFLECTIVE PAVEMENT MARKERS WHICH CONFLICT WITH TEMPORARY PAVEMENT MARKINGS MUST HAVE THE REFLECTIVE LENSES REMOVED AS DIRECTED BY THE ENGINEER.
10. ANY SIGNS WHICH CONFLICT WITH TRAFFIC CONTROL MUST BE COVERED AS DIRECTED BY THE ENGINEER.
11. THE CONTRACTOR SHALL CONTACT THE D1 TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS BEFORE BEGINNING WORK.

MODEL: D:\p1\17002.14\DOT\14\DOT\14\DOT\14\Fiber\_Optics\CDN\Drawings\TrafficControl\TrafficControl.dgn

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|------------------------------|-------------------|-----------|
| USER NAME = RGall            | DESIGNED - MS     | REVISED - |
|                              | DRAWN - MS        | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - JH      | REVISED - |
| PLOT DATE = 10/18/2018       | DATE - 10/18/2018 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

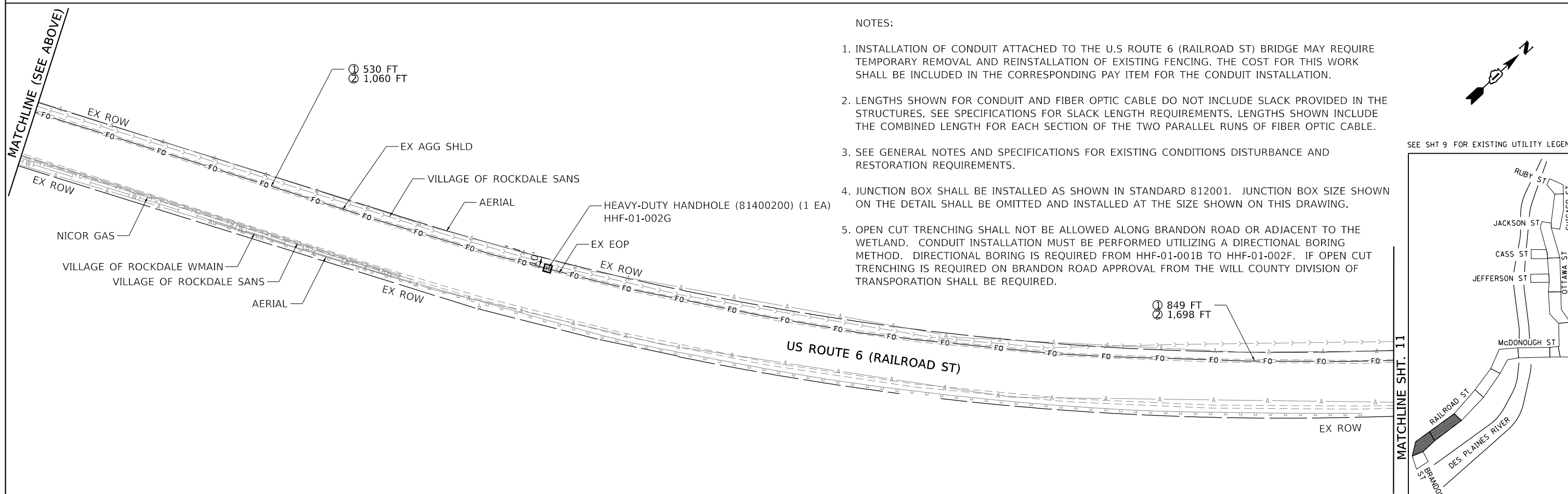
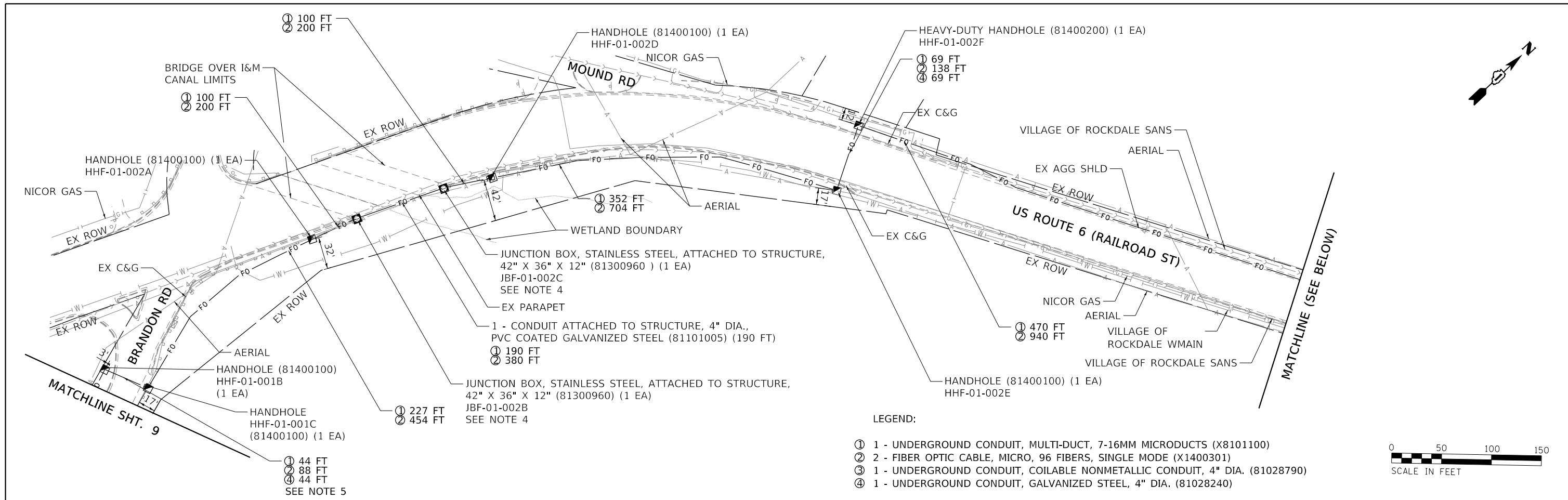
**TRAFFIC CONTROL PLAN - GENERAL NOTES AND TYPICAL SECTIONS  
FIBER OPTIC CABLE INSTALLATION**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

|                           |           |        |                    |           |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | 2018-002I | WILL   | 29                 | 8         |
|                           |           |        | CONTRACT NO. 62G14 |           |
| ILLINOIS FED. AID PROJECT |           |        |                    |           |

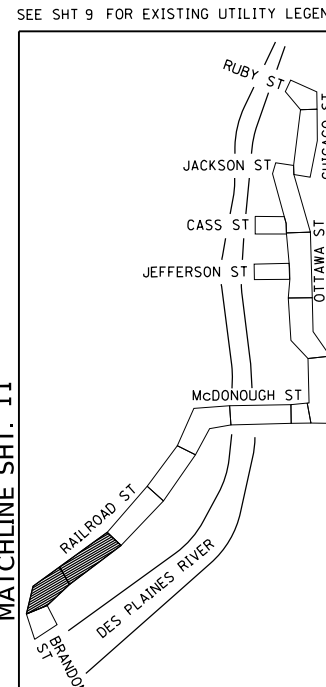


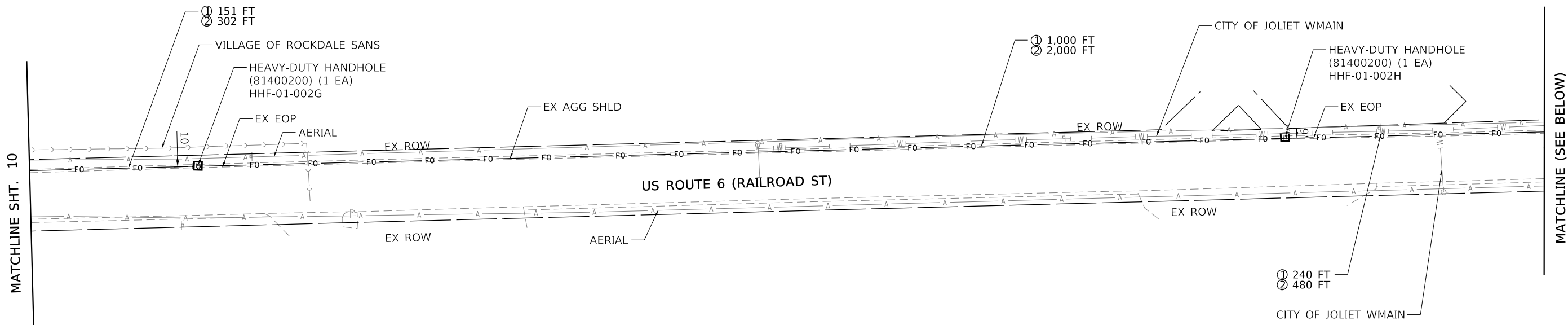




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| FILE NAME = JOLIET-SHT-RDY-01 | USER NAME = JKJELMA           | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIBER OPTIC AND RESTORATION PLAN<br/>FIBER OPTIC CABLE INSTALLATION</b> |                      | F.A.U. RTÉ.  | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |                    |
| Default                       | PLOT SCALE = 100.0000' / 1" = | CHECKED - JK      | REVISED - |   | SCALE: 1:50  | SHEET 2 OF 10 SHEETS | STA. TO STA. | VAR.    | 2018-002I | WILL         | 29        | 10                 |
|                               | PLOT DATE = 10/12/2018        | DATE - 10/12/2018 | REVISED - |   |  |                      |              |         |           |              |           |                    |
|                               |                               |                   |           |   |  |                      |              |         |           |              |           | CONTRACT NO. 62G14 |

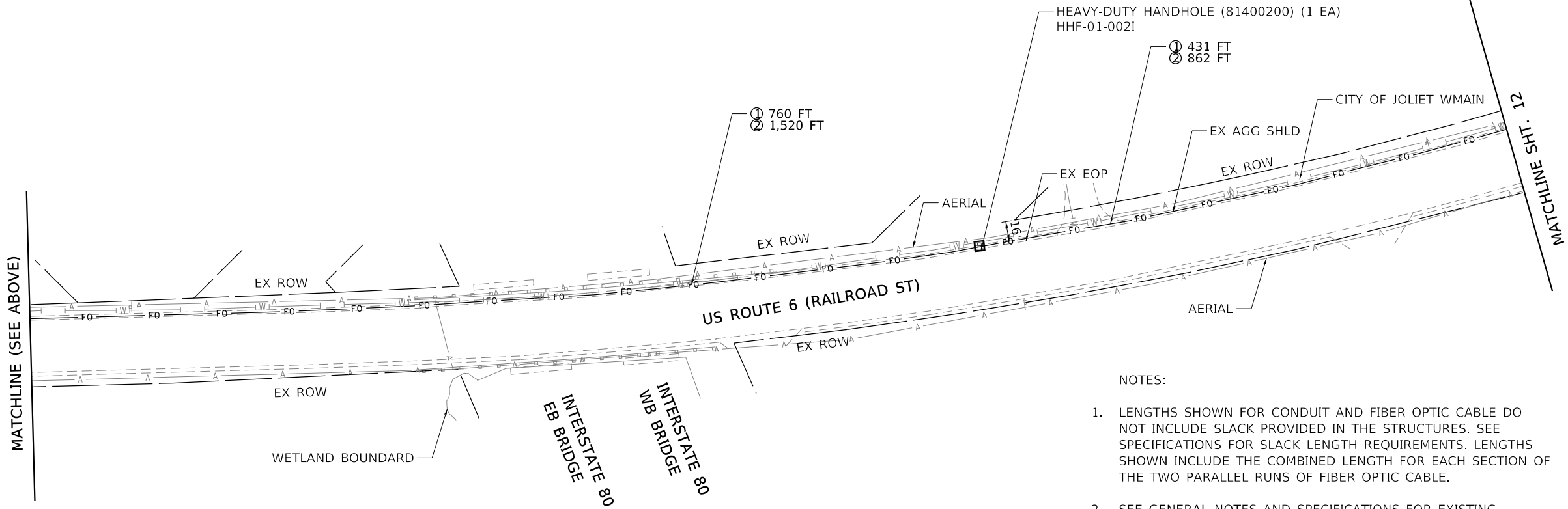
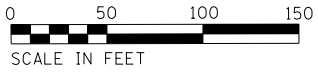
- LEGEND:
- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
  - ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
  - ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
  - ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)
- NOTES:
1. INSTALLATION OF CONDUIT ATTACHED TO THE U.S ROUTE 6 (RAILROAD ST) BRIDGE MAY REQUIRE TEMPORARY REMOVAL AND REINSTALLATION OF EXISTING FENCING. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING PAY ITEM FOR THE CONDUIT INSTALLATION.
  2. LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
  3. SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS.
  4. JUNCTION BOX SHALL BE INSTALLED AS SHOWN IN STANDARD 812001. JUNCTION BOX SIZE SHOWN ON THE DETAIL SHALL BE OMITTED AND INSTALLED AT THE SIZE SHOWN ON THIS DRAWING.
  5. OPEN CUT TRENCHING SHALL NOT BE ALLOWED ALONG BRANDON ROAD OR ADJACENT TO THE WETLAND. CONDUIT INSTALLATION MUST BE PERFORMED UTILIZING A DIRECTIONAL BORING METHOD. DIRECTIONAL BORING IS REQUIRED FROM HHF-01-001B TO HHF-01-002F. IF OPEN CUT TRENCHING IS REQUIRED ON BRANDON ROAD APPROVAL FROM THE WILL COUNTY DIVISION OF TRANSPORTATION SHALL BE REQUIRED.





LEGEND:

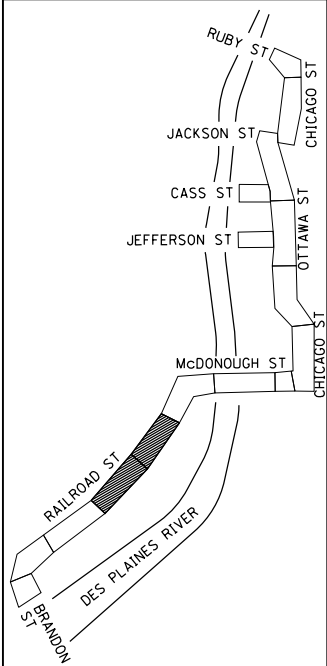
- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
- ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
- ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
- ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)



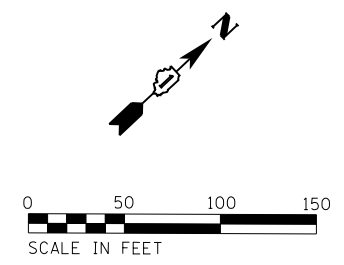
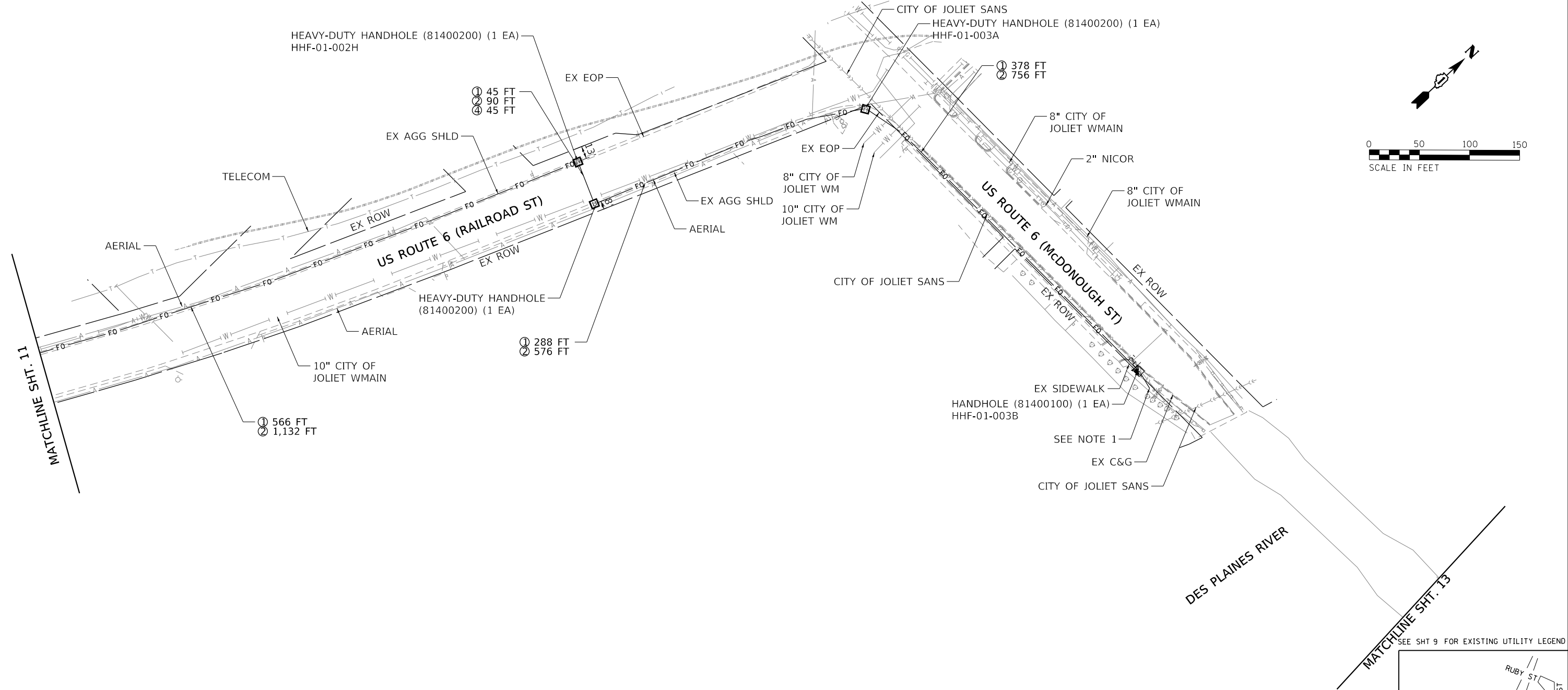
NOTES:

1. LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
2. SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS

SEE SHT 9 FOR EXISTING UTILITY LEGEND



|                                  |                               |                   |           |   |  |                      |             |              |        |                    |           |
|----------------------------------|-------------------------------|-------------------|-----------|---|--|----------------------|-------------|--------------|--------|--------------------|-----------|
| FILE NAME =<br>JOLIET-SHT-RDY-02 | USER NAME = JKJELMA           | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIBER OPTIC AND RESTORATION PLAN<br/>FIBER OPTIC CABLE INSTALLATION</b> |                      | F.A.U. RTE. | SECTION      | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                                  | PLOT SCALE = 100.0000' / 1" = | CHECKED - JK      | REVISED - |   |  |                      | VAR.        | 2018-002I    | WILL   | 29                 | 11        |
| Default                          | PLOT DATE = 10/12/2018        | DATE - 10/12/2018 | REVISED - | SCALE: 1:50   |  | SHEET 3 OF 10 SHEETS |             | STA. TO STA. |        | CONTRACT NO. 62G14 |           |
| ILLINOIS FED. AID PROJECT        |                               |                   |           |   |  |                      |             |              |        |                    |           |

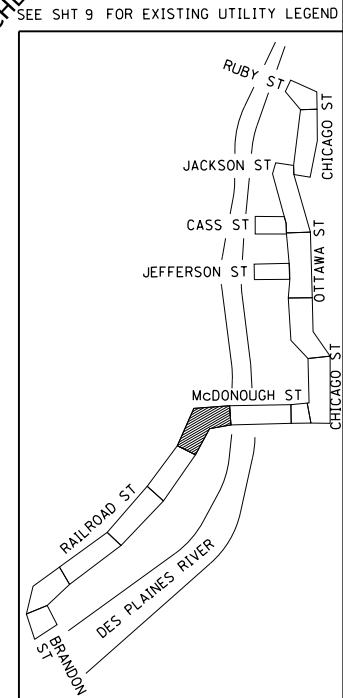


**NOTES:**

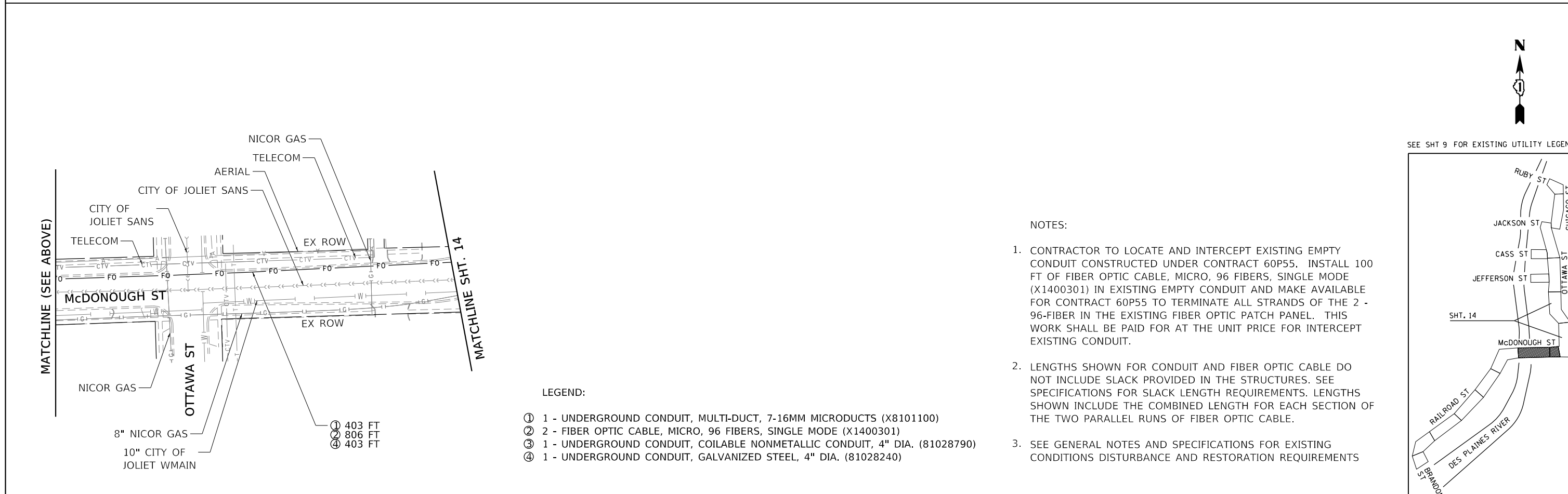
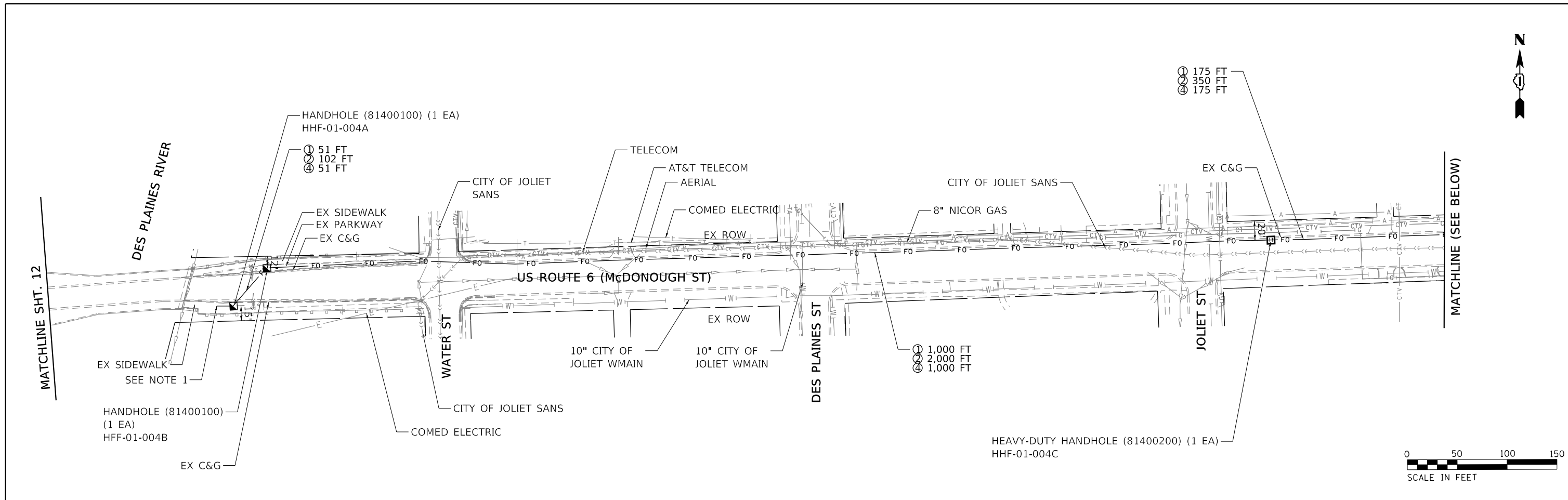
1. CONTRACTOR TO LOCATE AND INTERCEPT EXISTING EMPTY CONDUIT CONSTRUCTED UNDER CONTRACT 60P55. INSTALL 100 FT OF FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301) IN EXISTING EMPTY CONDUIT AND MAKE AVAILABLE FOR CONTRACT 60P55 TO TERMINATE ALL STRANDS OF THE 2 - 96-FIBER IN THE EXISTING FIBER OPTIC PATCH PANEL. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR INTERCEPT EXISTING CONDUIT.
2. LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS

**LEGEND:**

- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
- ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
- ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
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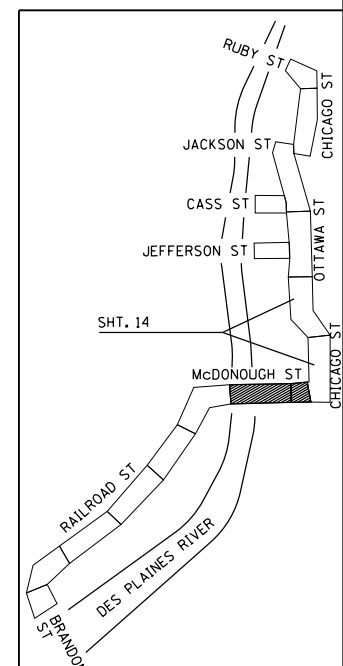
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| FILE NAME =<br>JOLIET-SHT-RDY-03 | USER NAME = JKJELMA           | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIBER OPTIC AND RESTORATION PLAN<br/>FIBER OPTIC CABLE INSTALLATION</b> | F.A.U.<br>RTE. | SECTION   | COUNTY               | TOTAL<br>SHEETS | SHEET<br>NO.       |
| Default                          | PLOT SCALE = 100.0000' / 1" = | CHECKED - JK      | REVISED - |   |  | VAR.           | 2018-002I | WILL                 | 29              | 12                 |
|                                  | PLOT DATE = 10/12/2018        | DATE - 10/12/2018 | REVISED - |   |  | SCALE: 1:50    |           | SHEET 4 OF 10 SHEETS |                 | CONTRACT NO. 62G14 |



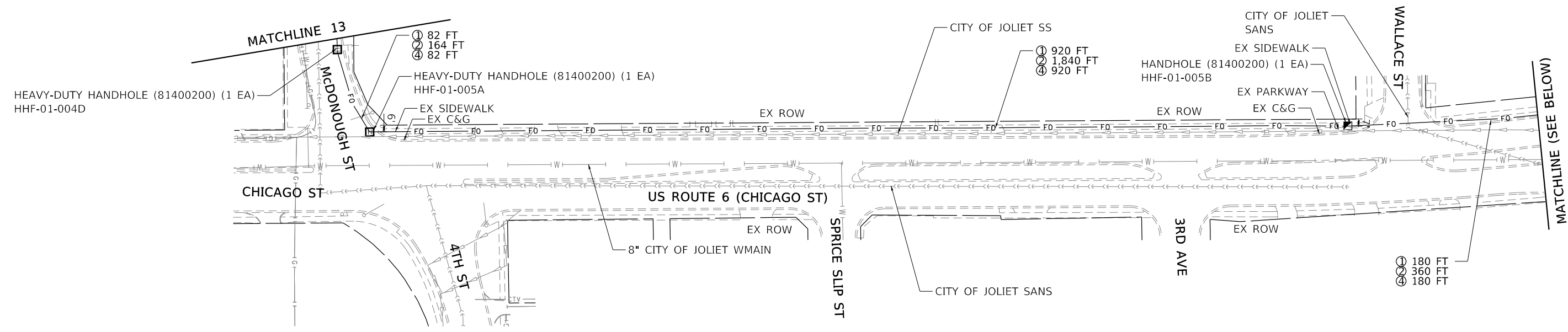
- NOTES:
- CONTRACTOR TO LOCATE AND INTERCEPT EXISTING EMPTY CONDUIT CONSTRUCTED UNDER CONTRACT 60P55. INSTALL 100 FT OF FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301) IN EXISTING EMPTY CONDUIT AND MAKE AVAILABLE FOR CONTRACT 60P55 TO TERMINATE ALL STRANDS OF THE 2 - 96-FIBER IN THE EXISTING FIBER OPTIC PATCH PANEL. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR INTERCEPT EXISTING CONDUIT.
  - LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
  - SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS

- LEGEND:
- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
  - ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
  - ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
  - ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)

SEE SHT 9 FOR EXISTING UTILITY LEGEND

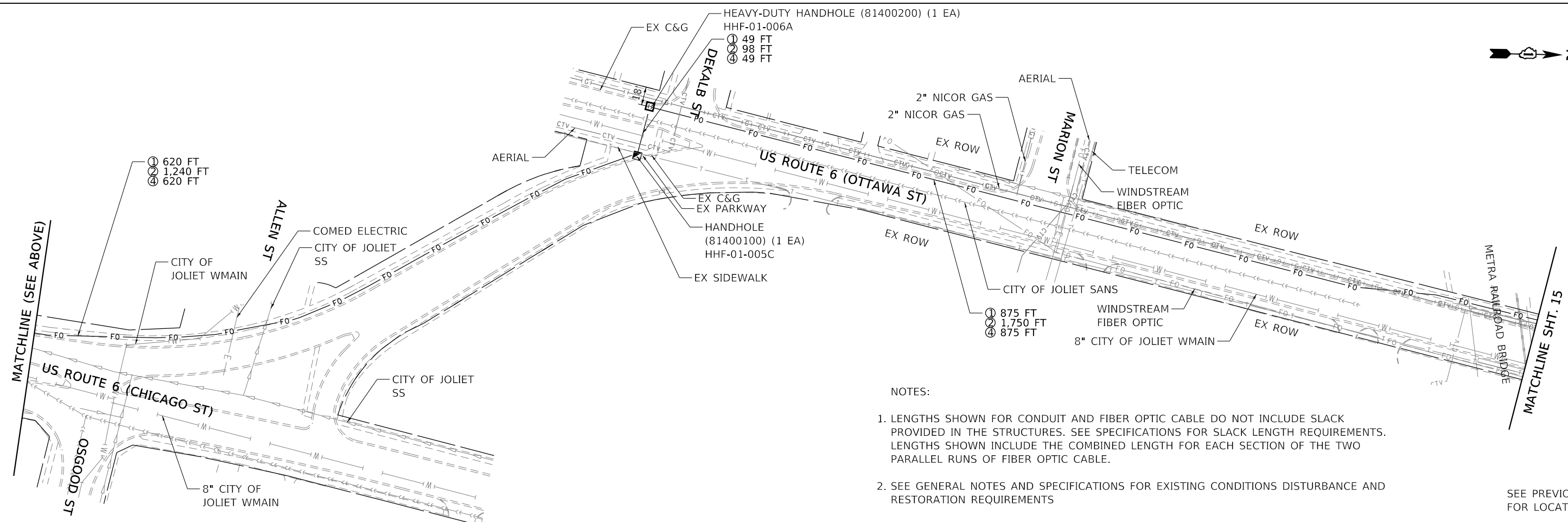


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| FILE NAME = JOLIET-SHT-RDY-04 | USER NAME = JKJELMA          | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIBER OPTIC AND RESTORATION PLAN<br/>FIBER OPTIC CABLE INSTALLATION</b> |                      |              | F.A.U. RTE. | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
| Default                       | PLOT SCALE = 100.0000' / in. | DRAWN - AF        | REVISED - |   | SCALE: 1:50  | SHEET 5 OF 10 SHEETS | STA. TO STA. | VAR.        | 2018-0021 | WILL   | 29                        | 13        |
|                               | PLOT DATE = 10/12/2018       | CHECKED - JK      | REVISED - |   |  |                      |              |             |           |        | CONTRACT NO. 62G14        |           |
|                               |                              | DATE - 10/12/2018 | REVISED - |   |  |                      |              |             |           |        | ILLINOIS FED. AID PROJECT |           |



**LEGEND:**

- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
- ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
- ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
- ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)

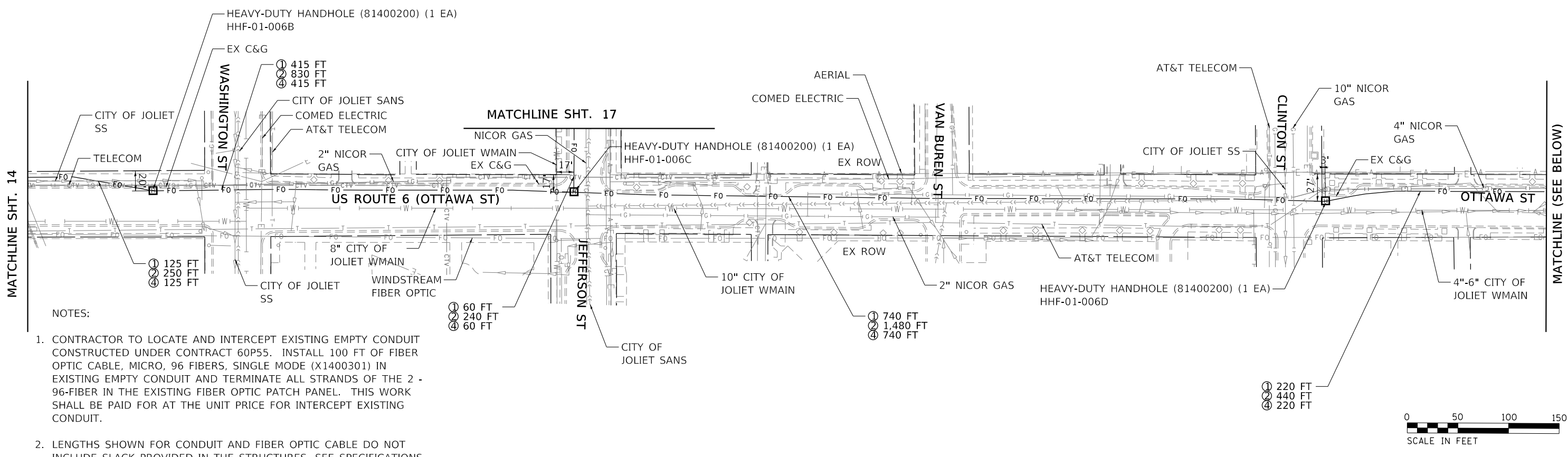


**NOTES:**

1. LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
2. SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS

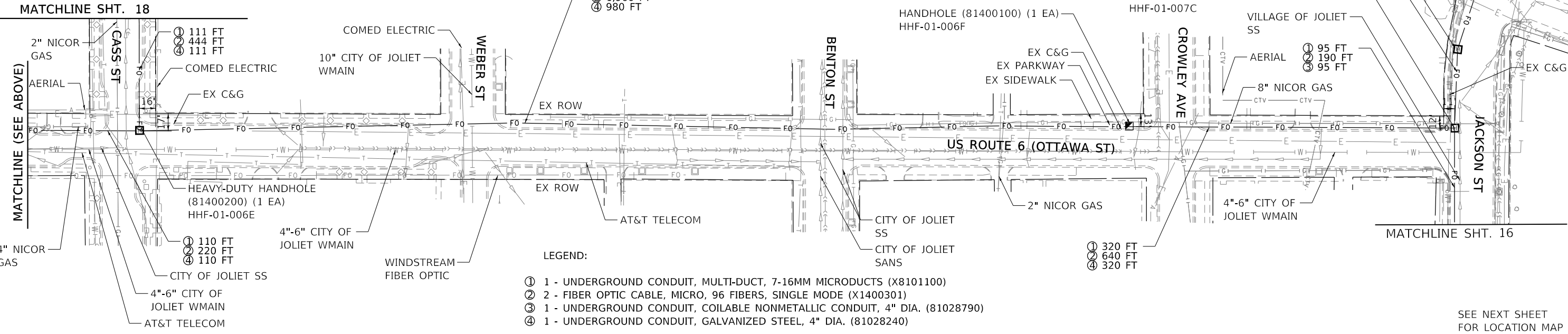
SEE PREVIOUS SHEET FOR LOCATION MAP

|   |                              |                   |           |   |  |                      |             |           |                    |              |           |
|---|------------------------------|-------------------|-----------|---|--|----------------------|-------------|-----------|--------------------|--------------|-----------|
| FILE NAME =<br>JOLIET-SHT-RDY-05<br>Default | USER NAME = JKJELMA          | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIBER OPTIC AND RESTORATION PLAN<br/>FIBER OPTIC CABLE INSTALLATION</b> |                      | F.A.U. RTE. | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
|   | PLOT SCALE = 100.0000' / in. | CHECKED - JK      | REVISED - |   |  |                      | VAR.        | 2018-002I | WILL               | 29           | 14        |
|   | PLOT DATE = 10/12/2018       | DATE - 10/12/2018 | REVISED - |   | SCALE: 1:50  | SHEET 6 OF 10 SHEETS | STA.        | TO STA.   | CONTRACT NO. 62G14 |              |           |
| ILLINOIS FED. AID PROJECT                   |                              |                   |           |   |  |                      |             |           |                    |              |           |



NOTES:

1. CONTRACTOR TO LOCATE AND INTERCEPT EXISTING EMPTY CONDUIT CONSTRUCTED UNDER CONTRACT 60P55. INSTALL 100 FT OF FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301) IN EXISTING EMPTY CONDUIT AND TERMINATE ALL STRANDS OF THE 2 - 96-FIBER IN THE EXISTING FIBER OPTIC PATCH PANEL. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR INTERCEPT EXISTING CONDUIT.
2. LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS
4. FIBER OPTIC SECTIONS ALONG JEFFERSON ST, CASS ST, AND JACKSON ST WILL CONSIST OF 4 FIBER OPTIC CABLES IN TOTAL. TWO CABLES (A AND B AS SHOWN IN THE INTERCONNECT SYSTEM TOPOLOGY PLAN) APPROACHING THE BRIDGE HOUSE AND 2 CABLES DEPARTING THE BRIDGE HOUSE.

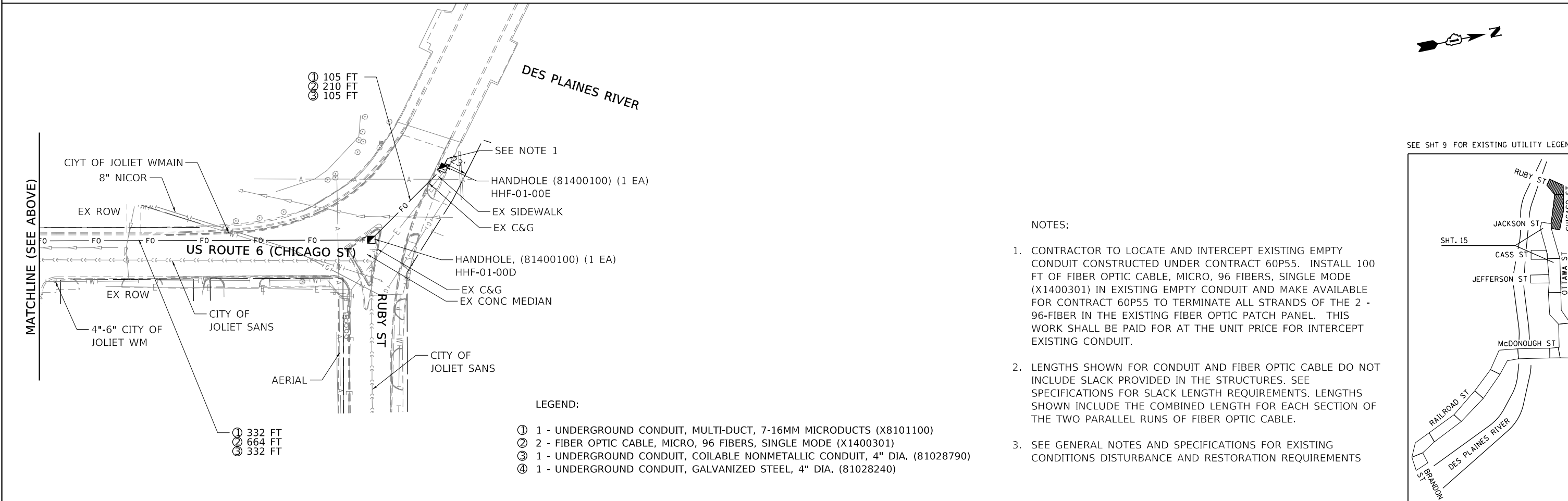
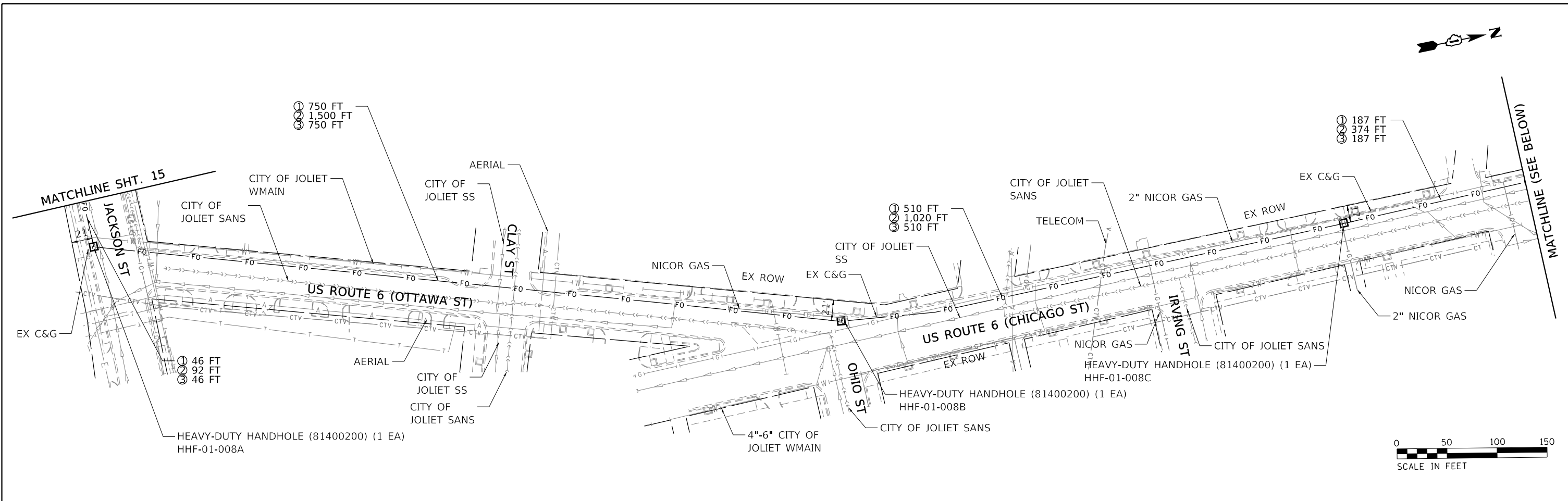


LEGEND:

- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
- ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
- ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
- ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)

SEE NEXT SHEET FOR LOCATION MAP

|                                  |                               |                   |           |   |  |              |                           |           |        |              |           |
|----------------------------------|-------------------------------|-------------------|-----------|---|--|--------------|---------------------------|-----------|--------|--------------|-----------|
| FILE NAME =<br>JOLIET-SHT-ROY-06 | USER NAME = JKJELMA           | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIBER OPTIC AND RESTORATION PLAN<br/>FIBER OPTIC CABLE INSTALLATION</b> |              | F.A.U R.E.                | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                  | PLOT SCALE = 100.0000' / 1" = | CHECKED - JK      | REVISED - |   |  |              | VAR.                      | 2018-002I | WILL   | 29           | 15        |
| Default                          | PLOT DATE = 10/19/2018        | DATE - 10/12/2018 | REVISED - | SCALE: 1:50   | SHEET 7 OF 10 SHEETS   | STA. TO STA. | ILLINOIS FED. AID PROJECT |           |        |              |           |



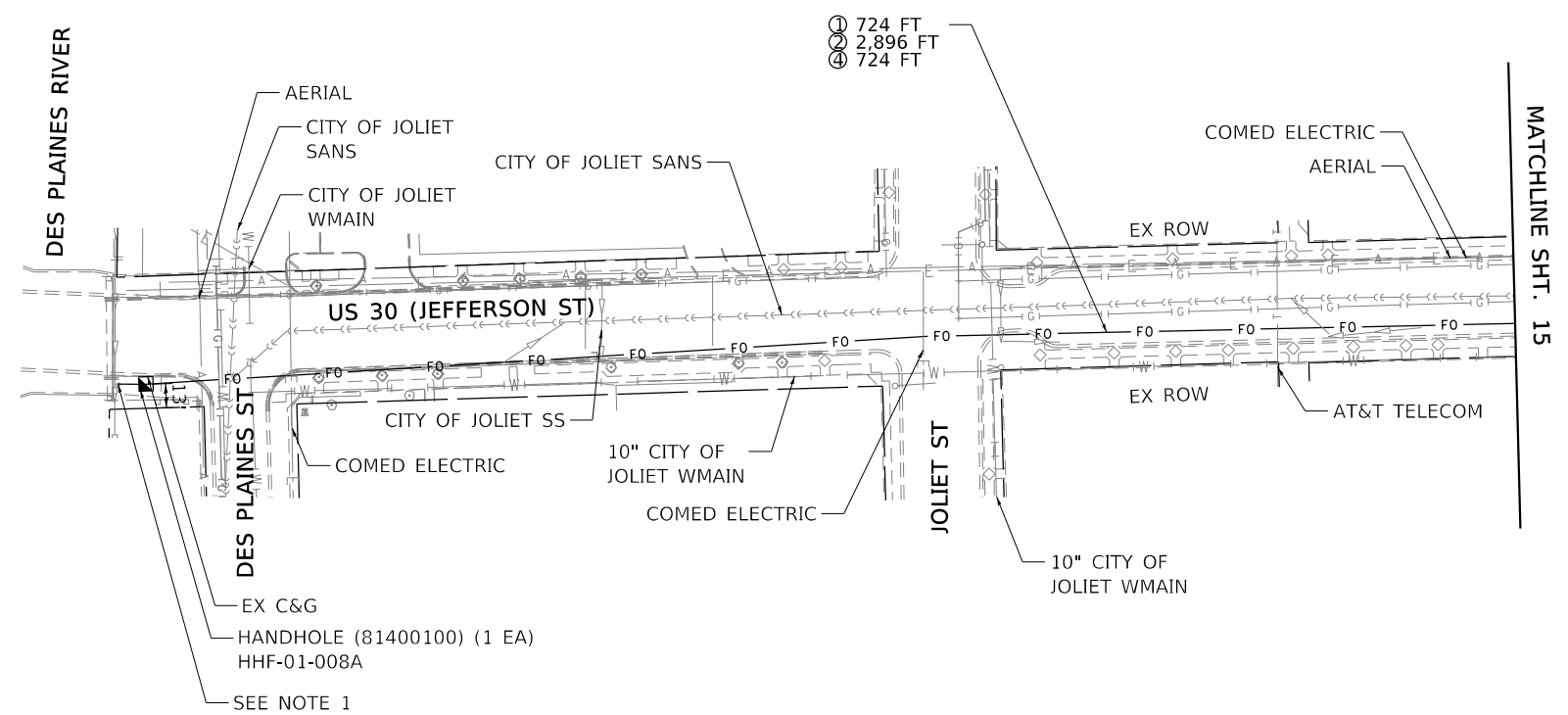
- NOTES:
- CONTRACTOR TO LOCATE AND INTERCEPT EXISTING EMPTY CONDUIT CONSTRUCTED UNDER CONTRACT 60P55. INSTALL 100 FT OF FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301) IN EXISTING EMPTY CONDUIT AND MAKE AVAILABLE FOR CONTRACT 60P55 TO TERMINATE ALL STRANDS OF THE 2 - 96-FIBER IN THE EXISTING FIBER OPTIC PATCH PANEL. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR INTERCEPT EXISTING CONDUIT.
  - LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
  - SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS

- LEGEND:
- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
  - ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
  - ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
  - ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)

|                               |                               |                   |           |   |  |                           |           |        |              |           |  |
|-------------------------------|-------------------------------|-------------------|-----------|---|--|---------------------------|-----------|--------|--------------|-----------|--|
| FILE NAME = JOLIET-SHT-RDY-07 | USER NAME = JKJELMA           | DESIGNED - NK     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIBER OPTIC AND RESTORATION PLAN<br/>FIBER OPTIC CABLE INSTALLATION</b> | F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |  |
| Default                       | PLOT SCALE = 100.0000' / 1" = | DRAWN - AF        | REVISED - |   |  | VAR.                      | 2018-0021 | WILL   | 29           | 16        |  |
|                               | PLOT DATE = 10/12/2018        | CHECKED - JK      | REVISED - |   |  | CONTRACT NO. 62G14        |           |        |              |           |  |
|                               |                               | DATE - 10/12/2018 | REVISED - |   |  | ILLINOIS FED. AID PROJECT |           |        |              |           |  |

SCALE: 1:50 SHEET 8 OF 10 SHEETS STA. TO STA.

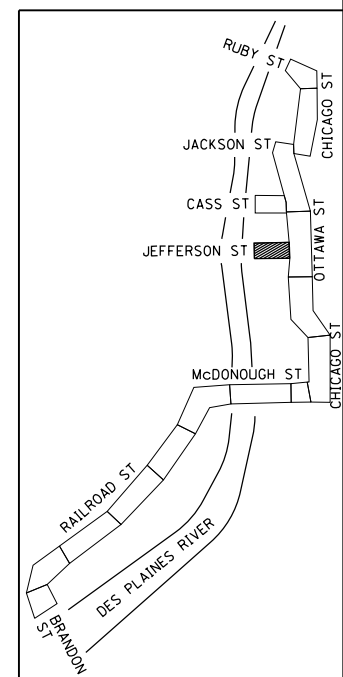




- ① 724 FT
- ② 2,896 FT
- ④ 724 FT



SEE SHT 9 FOR EXISTING UTILITY LEGEND



**NOTES:**

1. CONTRACTOR TO LOCATE AND INTERCEPT EXISTING EMPTY CONDUIT CONSTRUCTED UNDER CONTRACT 60P55. INSTALL 100 FT OF FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301) IN EXISTING EMPTY CONDUIT AND MAKE AVAILABLE FOR CONTRACT 60P55 TO TERMINATE ALL STRANDS OF THE 2 - 96-FIBER IN THE EXISTING FIBER OPTIC PATCH PANEL. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR INTERCEPT EXISTING CONDUIT.
2. LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS
4. FIBER OPTIC SECTIONS ALONG JEFFERSON ST, CASS ST, AND JACKSON ST WILL CONSIST OF 4 FIBER OPTIC CABLES IN TOTAL. TWO CABLES (A AND B AS SHOWN IN THE INTERCONNECT SYSTEM TOPOLOGY PLAN) APPROACHING THE BRIDGE HOUSE AND 2 CABLES DEPARTING THE BRIDGE HOUSE.

**LEGEND:**

- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
- ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
- ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
- ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)

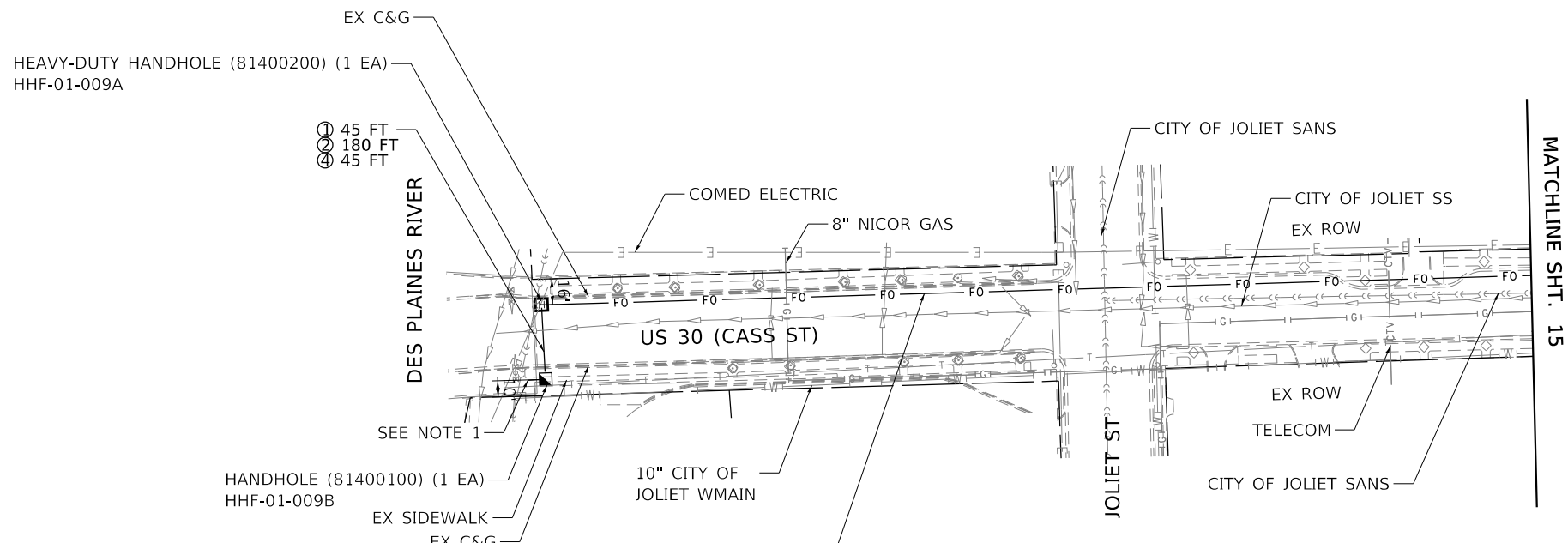
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|----------------------------------|------------------------------|-------------------|-----------|
| FILE NAME =<br>JOLIET-SHT-RDY-08 | USER NAME = JKJELMA          | DESIGNED - NK     | REVISED - |
| Default                          | PLOT SCALE = 100.0000' / in. | DRAWN - AF        | REVISED - |
|                                  | PLOT DATE = 10/18/2018       | CHECKED - JK      | REVISED - |
|                                  |                              | DATE - 10/12/2018 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC AND RESTORATION PLAN  
FIBER OPTIC CABLE INSTALLATION**

SCALE: 1:50      SHEET 9 OF 10 SHEETS      STA.      TO STA.

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR.                      | 2018-002I | WILL   | 29           | 17        |
| CONTRACT NO. 62G14        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



MATCHLINE SHT. 15

HEAVY-DUTY HANDHOLE (81400200) (1 EA)  
HHF-01-009A

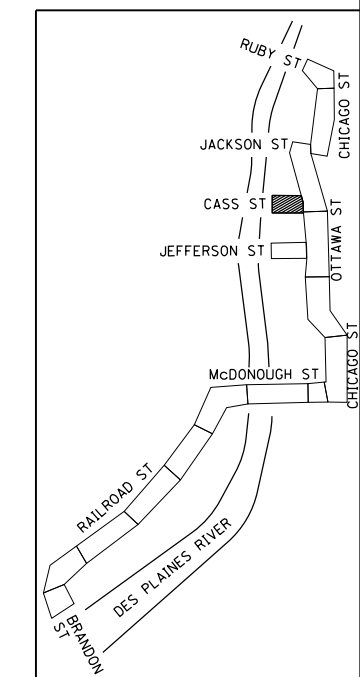
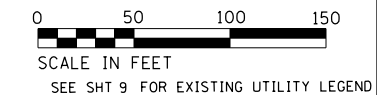
- ① 45 FT
- ② 180 FT
- ④ 45 FT

HANDHOLE (81400100) (1 EA)  
HHF-01-009B

- ① 601 FT
- ② 2,404 FT
- ④ 601 FT

**NOTES:**

1. CONTRACTOR TO LOCATE AND INTERCEPT EXISTING EMPTY CONDUIT CONSTRUCTED UNDER CONTRACT 60P55. INSTALL 100 FT OF FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301) IN EXISTING EMPTY CONDUIT AND MAKE AVAILABLE FOR CONTRACT 60P55 TO TERMINATE ALL STRANDS OF THE 2 - 96-FIBER IN THE EXISTING FIBER OPTIC PATCH PANEL. THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE FOR INTERCEPT EXISTING CONDUIT.
2. LENGTHS SHOWN FOR CONDUIT AND FIBER OPTIC CABLE DO NOT INCLUDE SLACK PROVIDED IN THE STRUCTURES. SEE SPECIFICATIONS FOR SLACK LENGTH REQUIREMENTS. LENGTHS SHOWN INCLUDE THE COMBINED LENGTH FOR EACH SECTION OF THE TWO PARALLEL RUNS OF FIBER OPTIC CABLE.
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR EXISTING CONDITIONS DISTURBANCE AND RESTORATION REQUIREMENTS.
4. FIBER OPTIC SECTIONS ALONG JEFFERSON ST, CASS ST, AND JACKSON ST WILL CONSIST OF 4 FIBER OPTIC CABLES IN TOTAL. TWO CABLES (A AND B AS SHOWN IN THE INTERCONNECT SYSTEM TOPOLOGY PLAN) APPROACHING THE BRIDGE HOUSE AND 2 CABLES DEPARTING THE BRIDGE HOUSE.



**LEGEND:**

- ① 1 - UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS (X8101100)
- ② 2 - FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE (X1400301)
- ③ 1 - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. (81028790)
- ④ 1 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (81028240)

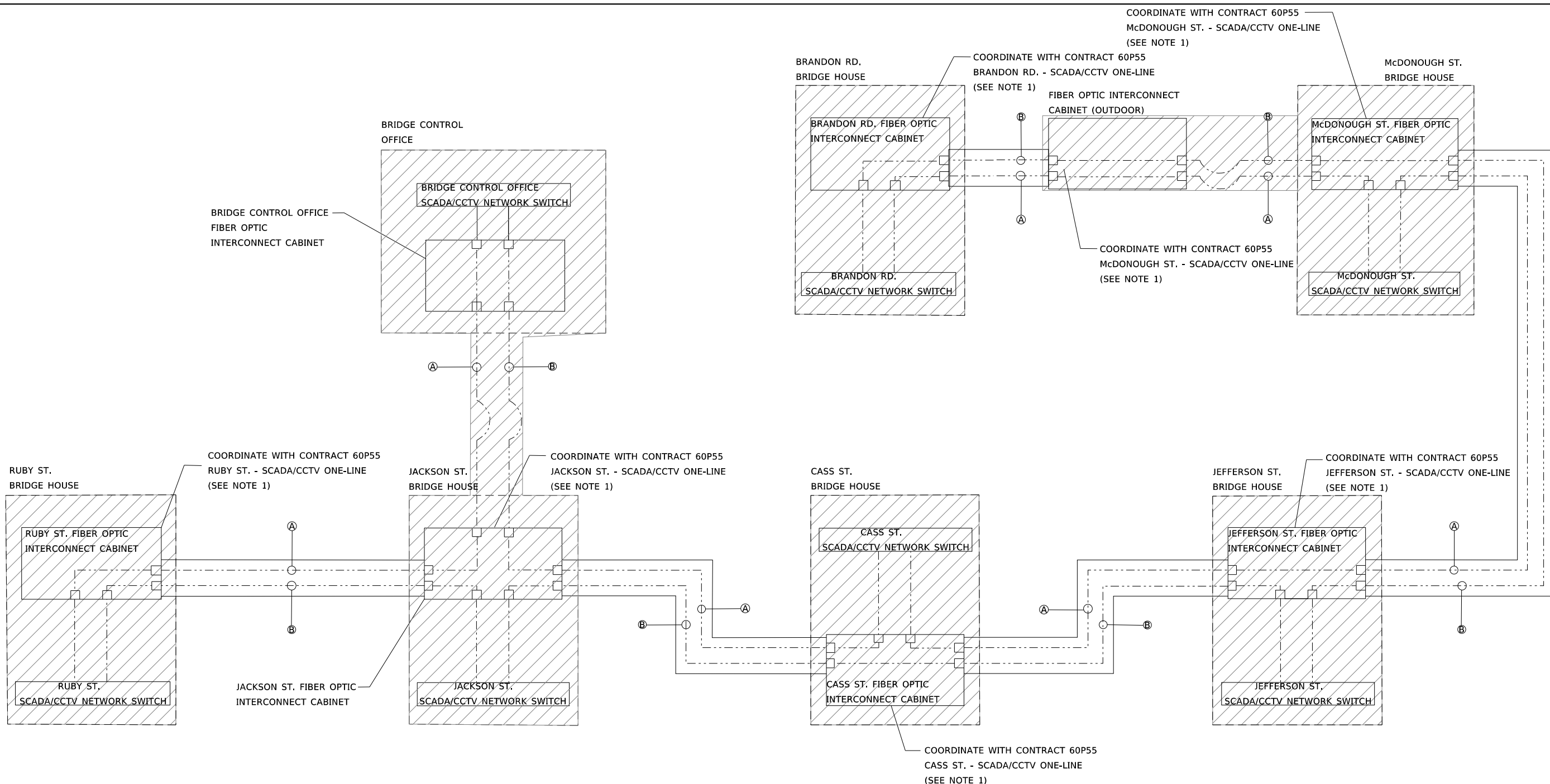
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| FILE NAME =<br>JOLIET-SHT-RDY-09 | USER NAME = JKJELMA           | DESIGNED - NK     | REVISED - |
| Default                          | PLOT SCALE = 100.0000' / 1" = | DRAWN - AF        | REVISED - |
|                                  | PLOT DATE = 10/18/2018        | CHECKED - JK      | REVISED - |
|                                  |                               | DATE - 10/12/2018 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC AND RESTORATION PLAN  
FIBER OPTIC CABLE INSTALLATION**

SCALE: 1:50      SHEET 10 OF 10 SHEETS      STA.      TO STA.

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR.                      | 2018-002I | WILL   | 29           | 18        |
| CONTRACT NO. 62G14        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



**LEGEND**

- FIBER OPTIC CONNECTION
- Ⓐ FIBER OPTIC CABLE A
- Ⓑ FIBER OPTIC CABLE B
- - - - BRIDGE AERIAL CABLES
- ▨ DENOTES PORTION OF FIBER OPTIC NETWORK TO BE INSTALLED UNDER CONTRACT 60P55

**GENERAL NOTE:**

1. CONTRACT 60P55 WILL PROVIDE THE INTERCONNECT CABINETS AND FIBER OPTIC PATCH PANELS. CONTRACTOR TO COORDINATE WITH 60P55 AND RUN 2-96 SINGLE MODE FIBER OPTIC TO THE EXISTING PATCH PANEL. 60P55 TO TERMINATE IN THE PATCH PANEL.
2. CONTRACTOR TO TEST FIBER OPTIC SYSTEM ONCE CONTRACT 60P55 PERFORMS THE TERMINATIONS IN THE PATCH PANELS.

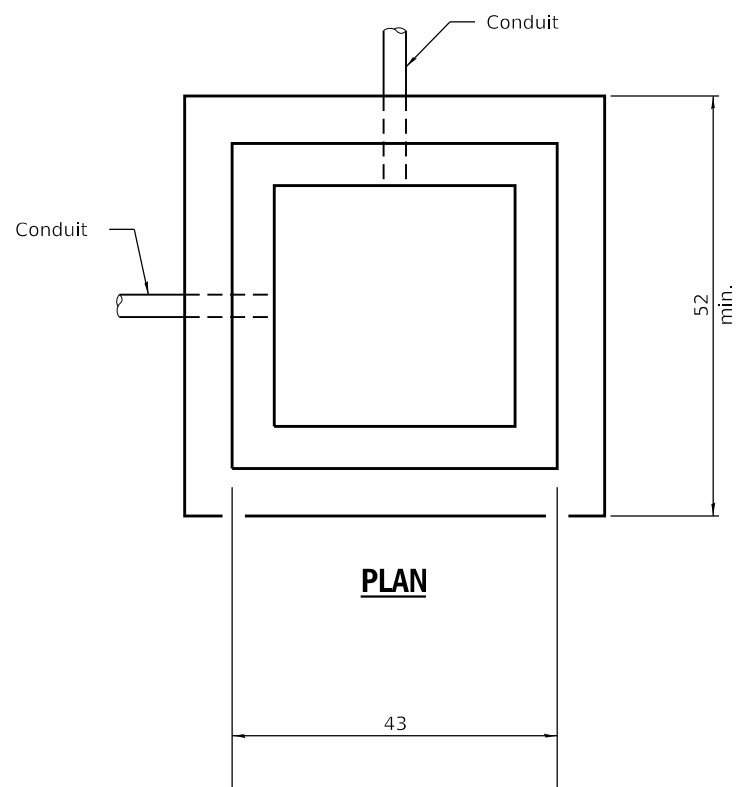
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| Default                          | PLOT SCALE = 10.0000' / in. | DRAWN - AF        | REVISED - |
|                                  | PLOT DATE = 10/12/2018      | CHECKED - JK      | REVISED - |
|                                  |                             | DATE - 10/12/2018 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

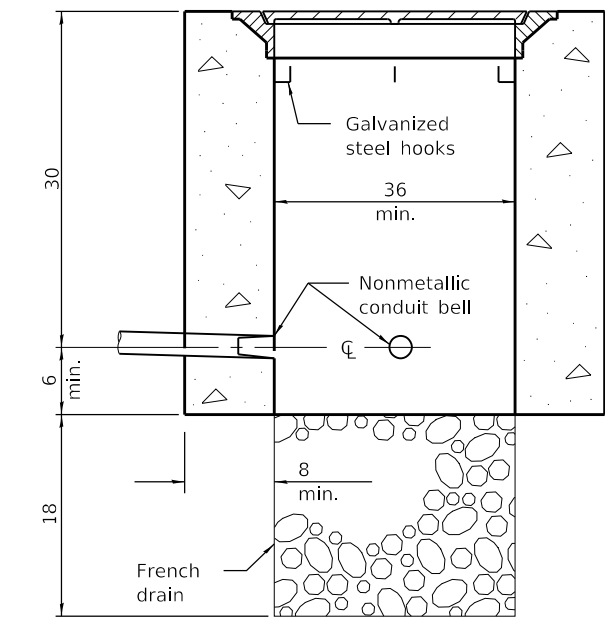
**INTERCONNECT SYSTEM TOPOLOGY  
FIBER OPTIC CABLE INSTALLATION**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.U R.T.E.              | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR.                      | 2018-002I | WILL   | 29           | 19        |
| CONTRACT NO. 62G14        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



**PLAN**

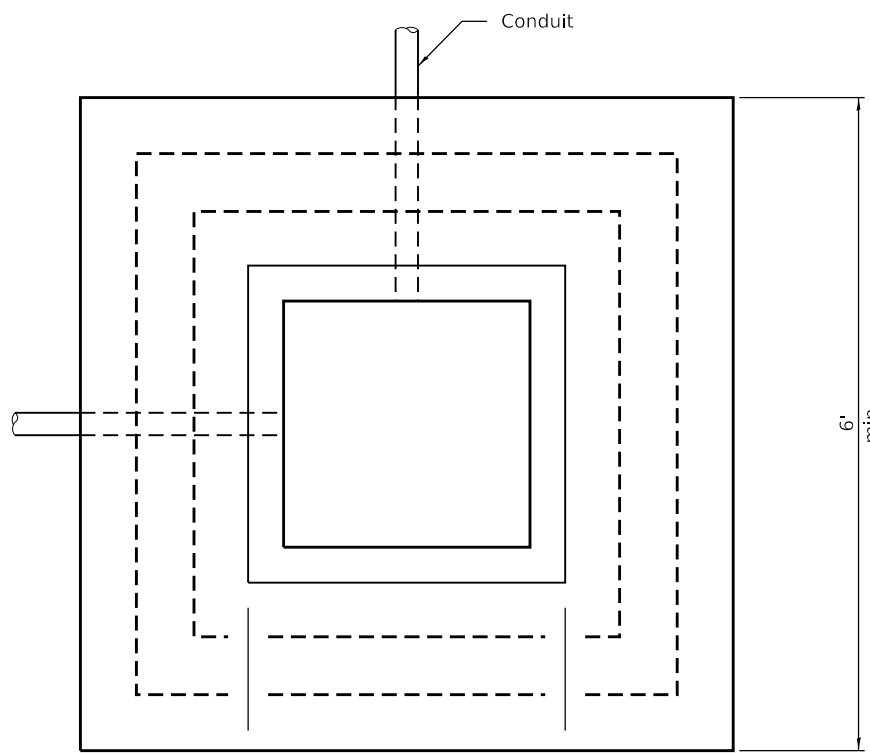


**ELEVATION**

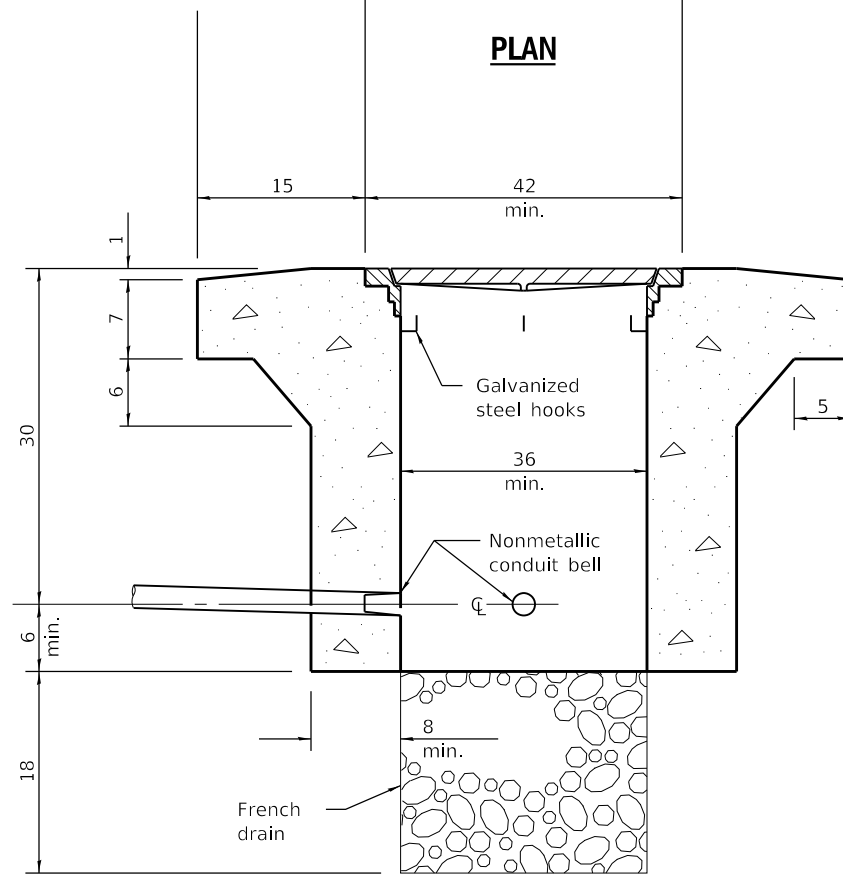
**PORTLAND CEMENT CONCRETE**

**QUANTITIES**

| Depth | Concrete yd <sup>3</sup> (m <sup>3</sup> ) |                     |
|-------|--|---------------------|
|       | Handhole                                   | Heavy Duty Handhole |
| 36    | 1.18                                       | 1.75                |

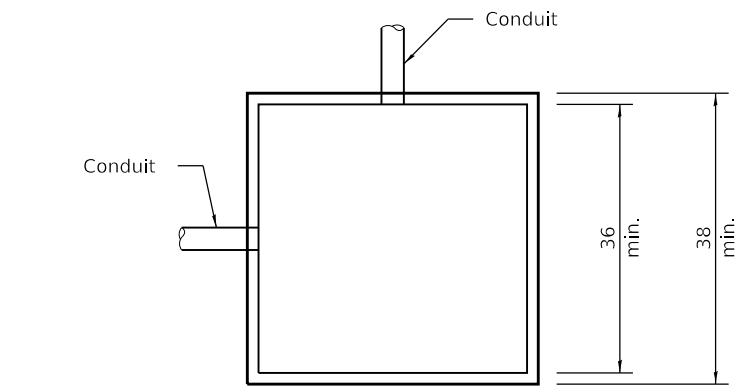


**PLAN**

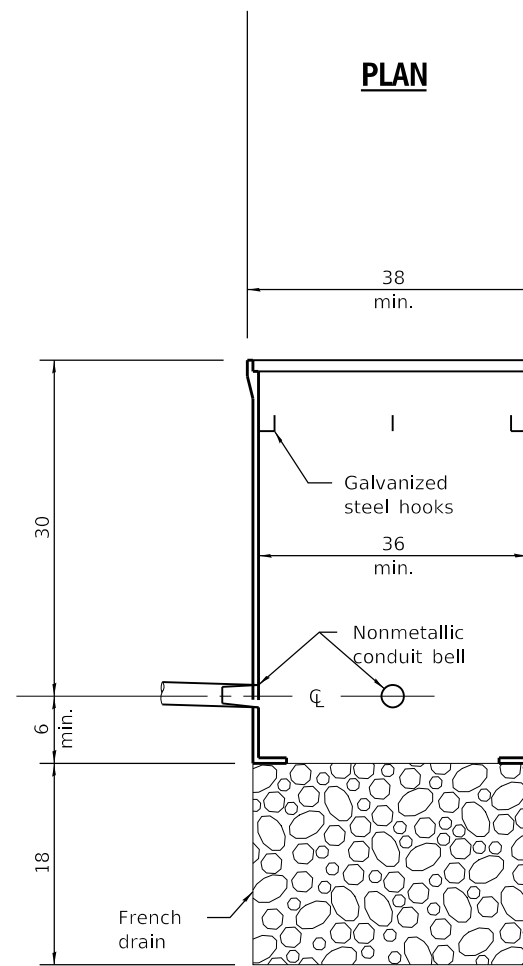


**ELEVATION**

**PORTLAND CEMENT CONCRETE  
HEAVY DUTY**



**PLAN**



**ELEVATION**

**COMPOSITE CONCRETE**

**Heavy-Duty Handhole Strength Test Requirements:**

Heavy-duty handholes shall be load tested to 46,000 pounds. The test load shall be applied vertically through a 10 by 20 by 1-inch steel plate centered on the lid with an orientation both on the long axis and the short axis of the handhole. The test load shall be applied and released ten times on each axis. The deflection at the test load and released state shall be recorded for each interval. At each interval the test box shall be inspected for lid deformation, failure of the lid or frame welds, vertical and horizontal displacement of the lid frame, cracks, and concrete spalling. After the twentieth loading interval the test shall be terminated with a 60,000 pound load being applied vertically through the steel plate centered on the lid and with the long edge of steel plate orientated parallel to the long axis of the box.

Heavy-Duty Handholes will be considered to have withstood the 46,000 pound test if none of the following conditions are exhibited:

1. Permanent deformation of the lid or any impairment to the function of the lid.
2. Vertical or horizontal displacement of the lid frame.
3. Cracks in the concrete wider than 0.012 inches that extend 12 inches or more.
4. Fracture or cracks passing through the entire thickness of the concrete.
5. Spalling of the concrete.

Heavy-Duty Handholes will be considered to have withstood the 60,000 pound test if all of the following conditions are exhibited:

1. The lid is operational.
2. The lid is securely fastened.
3. The welds have not failed.
4. No cracking of the lid and permanent deformation is 1/4 inch or less.
5. No buckling or collapse of the box.

**NOTES:**

All dimensions are in inches unless otherwise shown.

Strength requirements for heavy-duty handholes shall be in accordance with the requirements provided above.

All dimensions are minimum and a larger size handhole may be used, with the approval of the engineer, to facilitate using a manufacturer's standard product.

"IDOT FIBER" shall be stamped in the lid for all handholes.

Shop drawings shall be submitted to the Engineer for approval for all handholes.

FILE NAME = JOL1ET-SHT-DET-00.dgn  
Default

USER NAME = JKJELMA  
PLOT SCALE = 0:2.0000 '1' / in.  
PLOT DATE = 10/12/2018

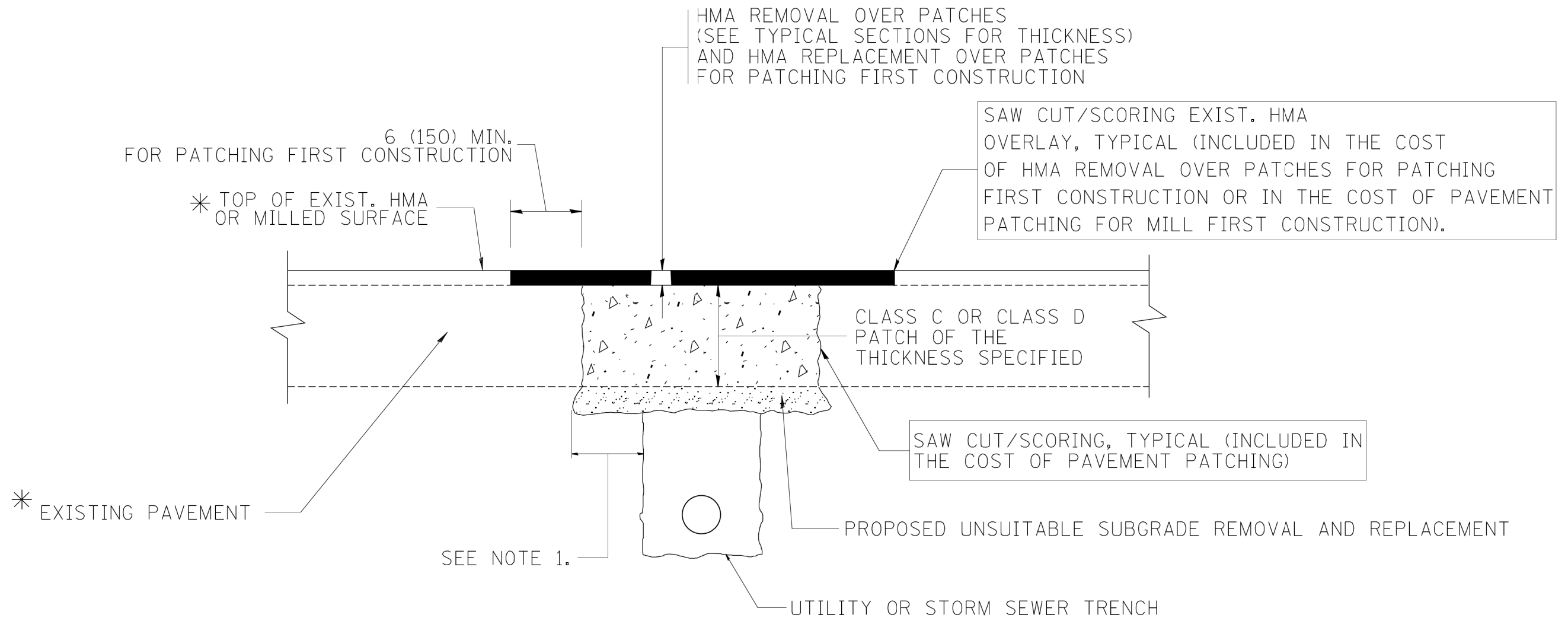
DESIGNED - NK  
DRAWN - AF  
CHECKED - JK  
DATE - 10/12/2018

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HANDHOLE DETAIL  
FIBER OPTIC CABLE INSTALLATION**  
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| VAR.                      | 2018-002I | WILL   | 29           | 20        |
| CONTRACT NO. 62G14        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|  |                     |                            |                             |   |  |                         |      |                         |         |                    |              |           |    |
|--|---------------------|----------------------------|-----------------------------|---|--|-------------------------|------|-------------------------|---------|--------------------|--------------|-----------|----|
| FILE NAME =<br>c:\projects\diststd22x34\bd22.dgn | USER NAME = bauerdl | DESIGNED - R. SHAH         | REVISED - A. ABBAS 04-27-98 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>PAVEMENT PATCHING FOR<br/>HMA SURFACED PAVEMENT</b> |                         |      | F.A.U. RTE.             | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |    |
|  |                     | DRAWN -                    | REVISED - R. BORO 01-01-07  |   | SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.                 | VAR.    | 2018-0021          | WILL         | 29        | 21 |
|  |                     | PLOT SCALE = 50.000' / IN. | REVISED - R. BORO 09-04-07  |   |  |                         |      | <b>BD400-04 (BD-22)</b> |         | CONTRACT NO. 62G14 |              |           |    |
|  |                     | PLOT DATE = 10/27/2008     | REVISED - K. ENG 10-27-08   |   | FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT    |                         |      |                         |         |                    |              |           |    |

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

BASIS OF PAYMENT:  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

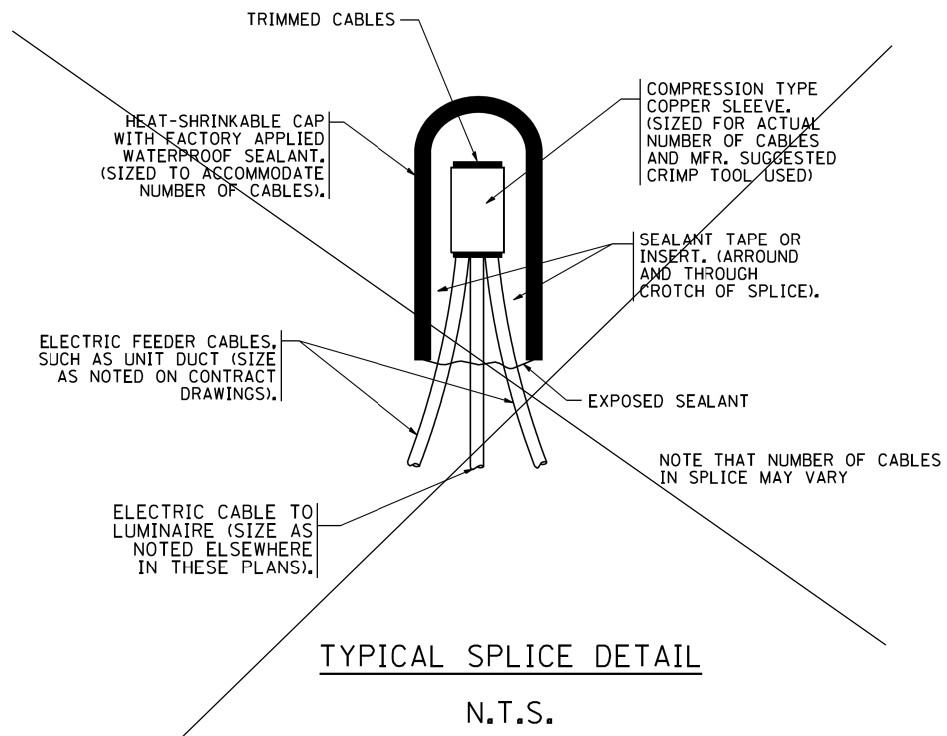
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

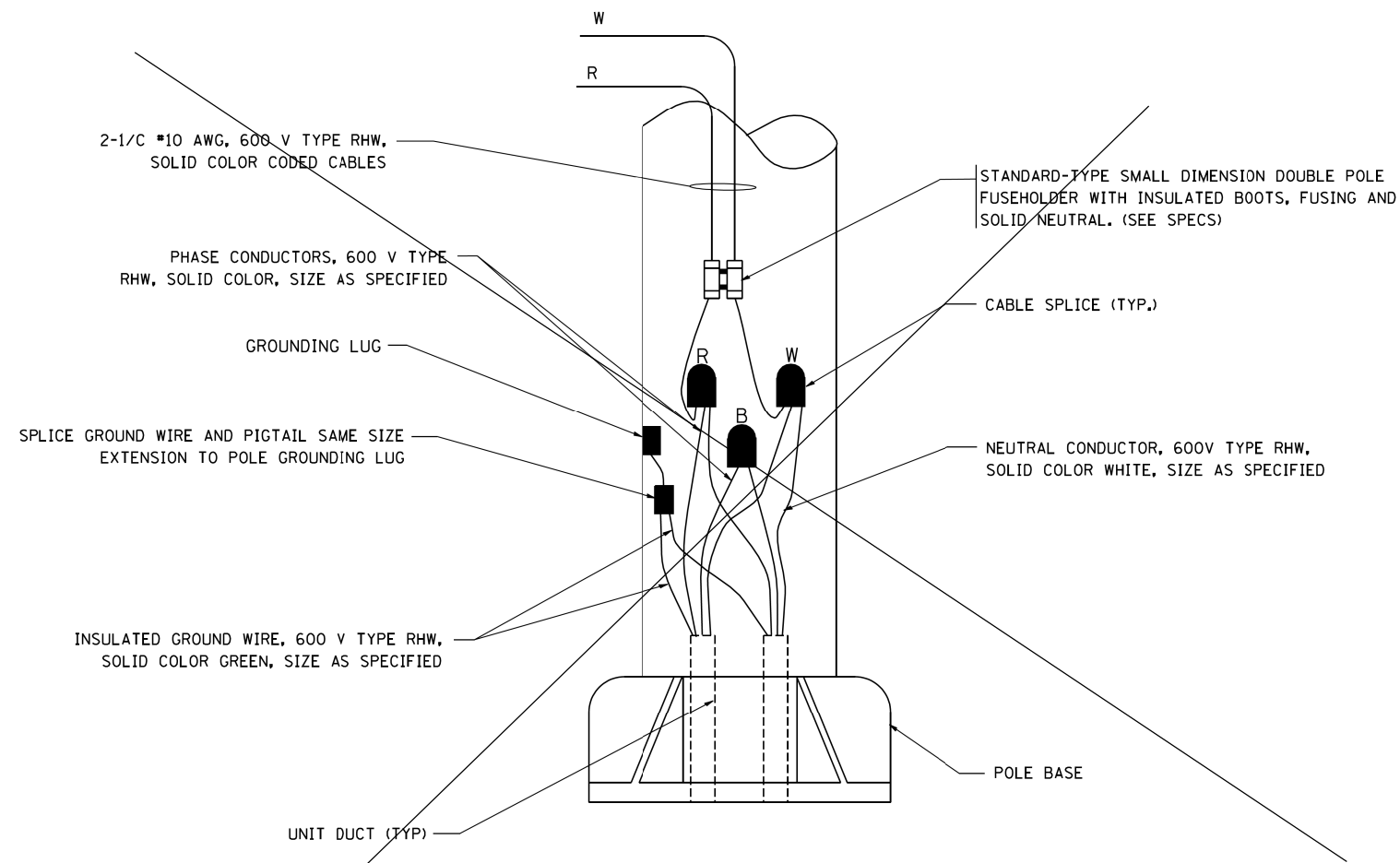
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|   |                       |                      |                             |   |  |                         |                         |                    |              |           |   |
|---|-----------------------|----------------------|-----------------------------|---|--|-------------------------|-------------------------|--------------------|--------------|-----------|---|
| FILE NAME =                                 | USER NAME = drivkasgn | DESIGNED - A. HOUSEH | REVISED - R. SHAH 10-03-96  | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>CURB OR CURB AND GUTTER<br/>REMOVAL AND REPLACEMENT</b> | F.A.U. RTE.             | SECTION                 | COUNTY             | TOTAL SHEETS | SHEET NO. |   |
| c:\p\work\p\dot\drivkasgn\d0108315\bc24.dgn |                       | DRAWN -              | REVISED - A. ABBAS 03-21-97 |   |  | VAR.                    | 2018-0021               | WILL               | 29           | 22        |   |
|   |                       | CHECKED -            | REVISED - M. GOMEZ 01-22-01 |   |  | <b>BD600-06 (BD-24)</b> |                         | CONTRACT NO. 62G14 |              |           |   |
|   |                       | DATE - 03-11-94      | REVISED - R. BORO 12-15-09  |   |  | SCALE: NONE             | SHEET NO. 1 OF 1 SHEETS | STA.               | TO STA.      |           | FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |



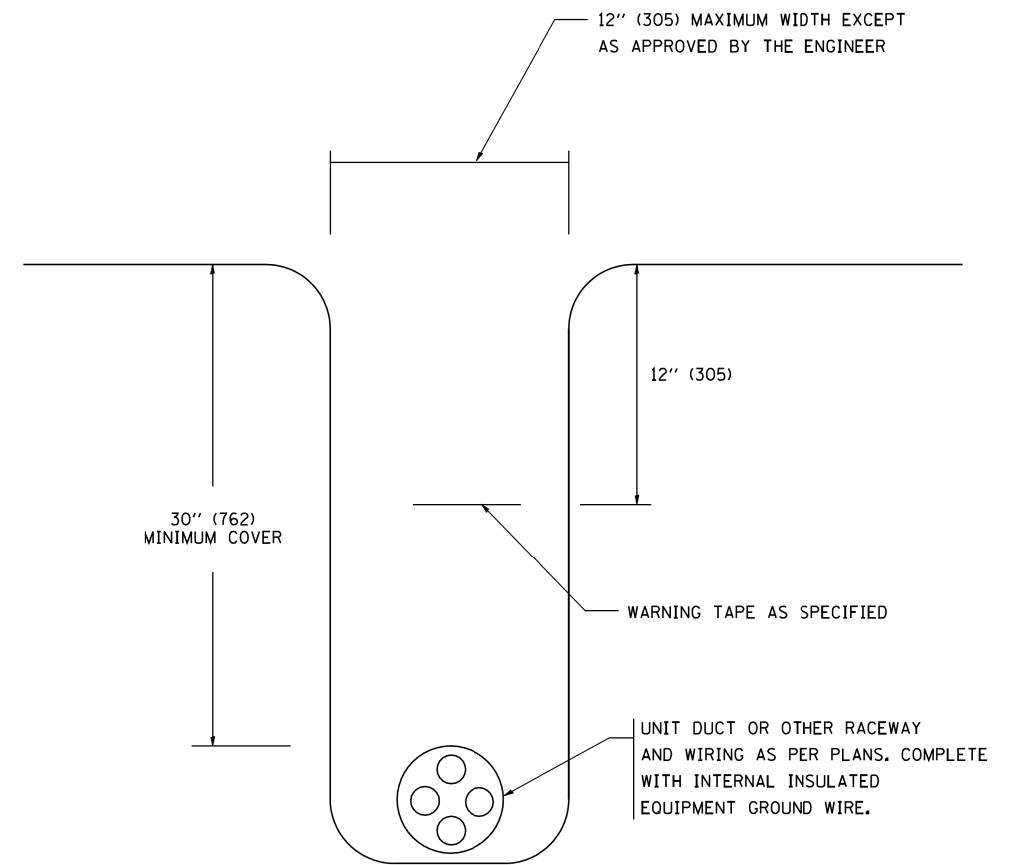
**TYPICAL SPLICE DETAIL**

N.T.S.



**POLE WIRING DETAIL**

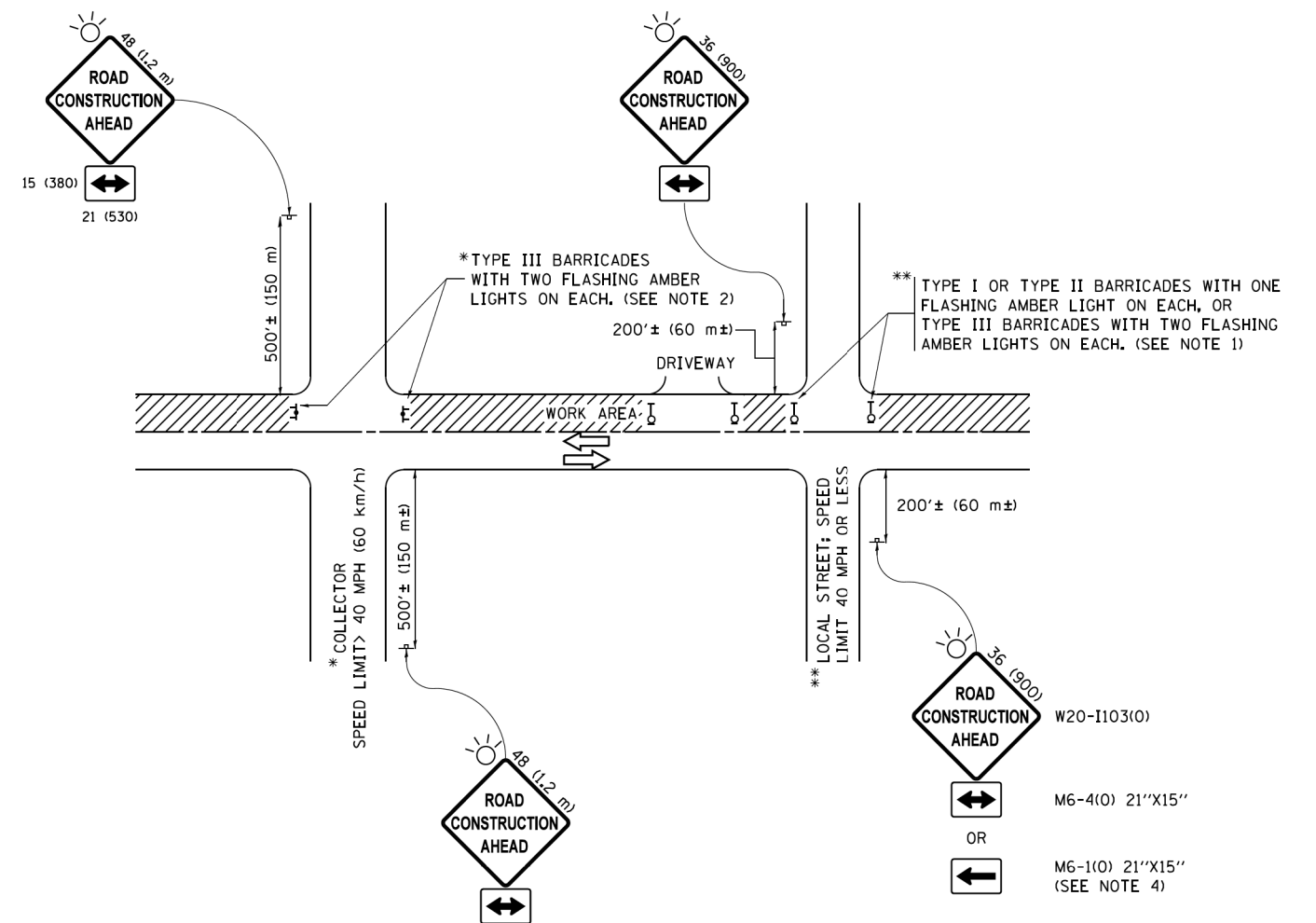
N.T.S.



**TYPICAL WIRING IN TRENCH DETAIL**

N.T.S.

|   |                            |            |                    |   |   |                         |      |                |         |                    |                 |              |    |
|---|----------------------------|------------|--------------------|---|---|-------------------------|------|----------------|---------|--------------------|-----------------|--------------|----|
| FILE NAME =<br>W:\diststd\22x34\be702.dgn | USER NAME = geglano        | DESIGNED - | REVISED - 08-08-03 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>MISC. ELECTRICAL DETAILS<br/>SHEET A</b>     |                         |      | F.A.U.<br>RTE. | SECTION | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |    |
|   | PLOT SCALE = 50,000' / IN. | DRAWN -    | REVISED -          |   | SCALE: NONE                                     | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.        | VAR.    | 2018-0021          | WILL            | 29           | 23 |
|   | PLOT DATE = 1/4/2008       | CHECKED -  | REVISED -          |   |   |                         |      | <b>BE-702</b>  |         | CONTRACT NO. 62G14 |                 |              |    |
|   |                            | DATE -     | REVISED -          |   | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                         |      |                |         |                    |                 |              |    |



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

|   |                             |                   |                                 |
|---|-----------------------------|-------------------|---------------------------------|
| FILE NAME =   | USER NAME = footemj         | DESIGNED - L.H.A. | REVISED - A. HOUSEH 10-15-96    |
| pw1\1L084E8ID\INTEG\illinois.gov\FWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\1084E8ID\CADD\cadd\CADsheets\1084.dgn |                             | DRAWN             | REVISED - T. RAMMACHER 01-06-00 |
| Default   | PLOT SCALE = 50,000' / 1" = | CHECKED -         | REVISED - A. SCHUETZE 07-01-13  |
|   | PLOT DATE = 9/15/2016       | DATE - 06-89      | REVISED - A. SCHUETZE 09-15-16  |

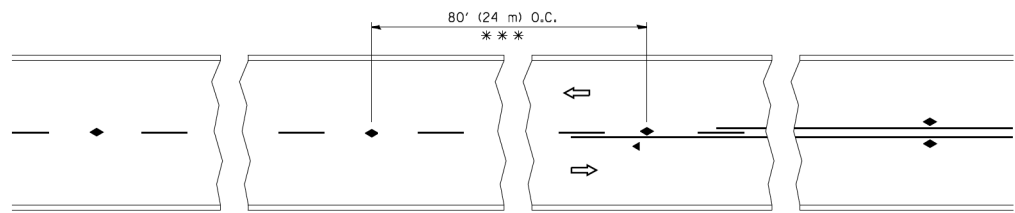
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

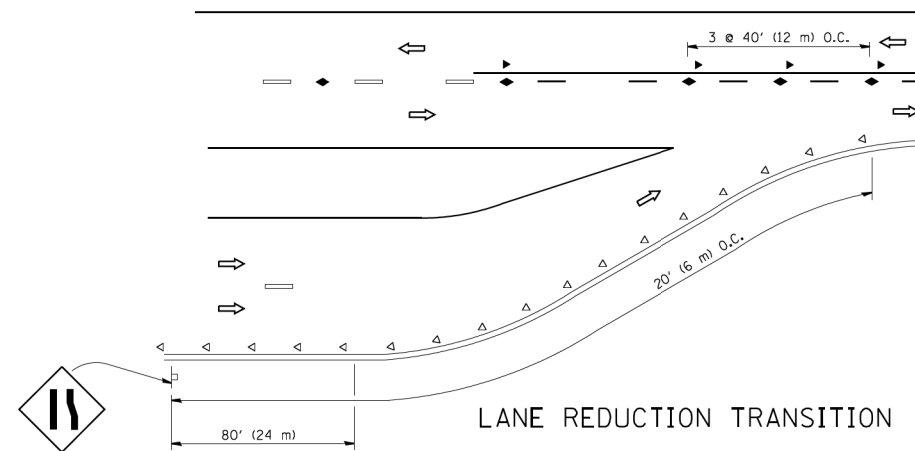
| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
|---------------------------|-----------|--------|---------------------------|-----------|
| VAR.                      | 2018-0021 | WILL   | 29                        | 24        |
| <b>TC-10</b>              |           |        | <b>CONTRACT NO. 62G14</b> |           |
| ILLINOIS FED. AID PROJECT |           |        |                           |           |



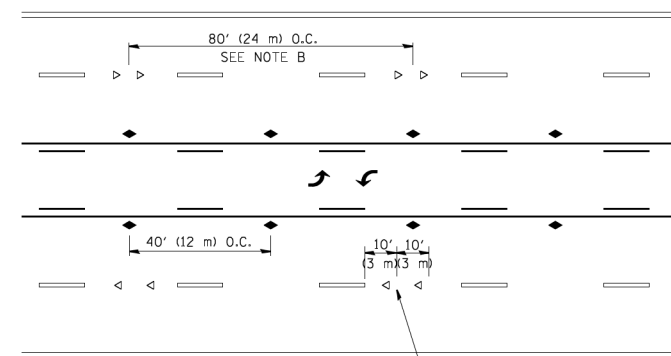


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

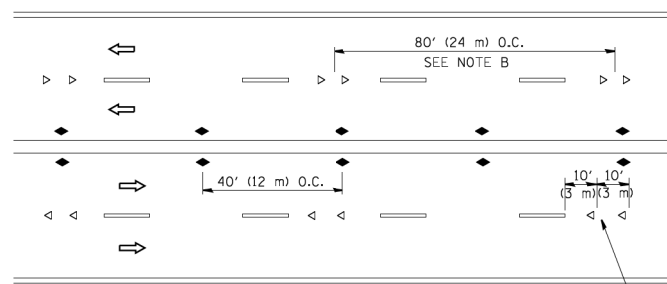
TWO-LANE/TWO-WAY



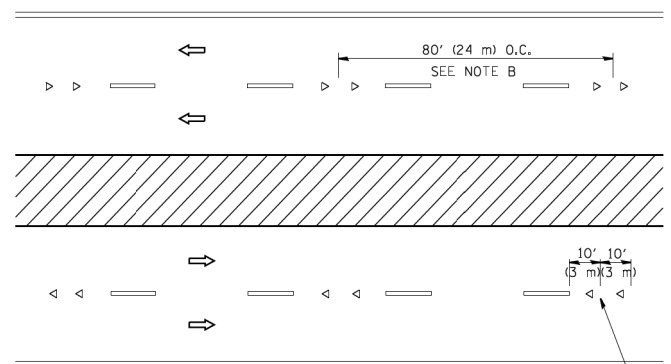
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

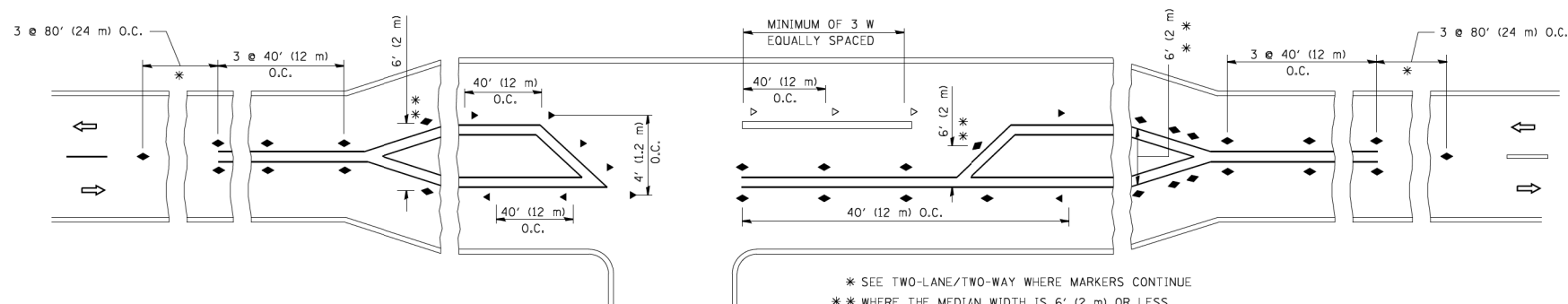
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

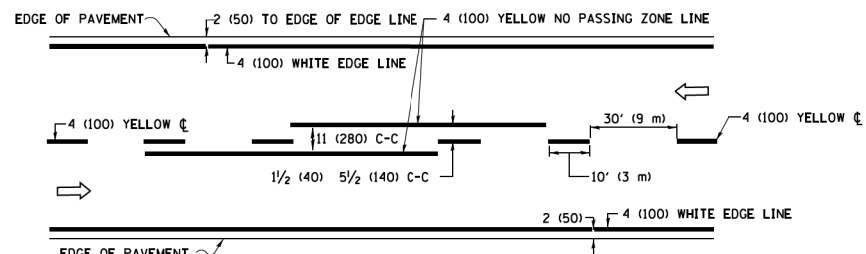


LEFT TURN

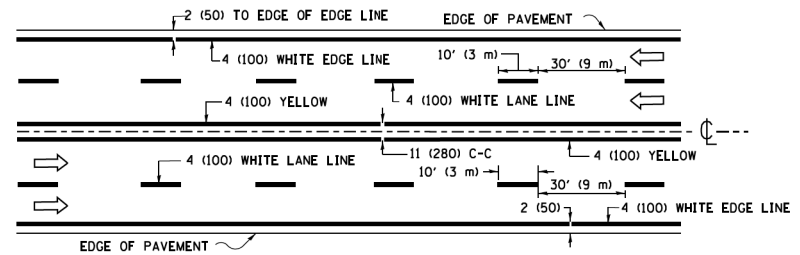
\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

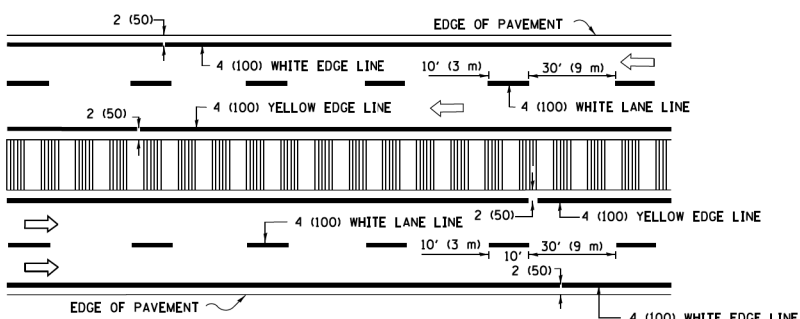
|   |                    |                            |                                 |   |  |                         |      |             |  |           |                           |           |    |
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| FILE NAME =                                   | USER NAME = lveysa | DESIGNED -                 | REVISED - T. RAMMACHER 09-19-94 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>TYPICAL APPLICATIONS<br/>RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b> |                         |      | F.A.U. RTE. | SECTION  | COUNTY    | TOTAL SHEETS              | SHEET NO. |    |
| ca:\pki\work\pki\dot\lveysa\d0108315\tcl1.dgn |                    | DRAWN -                    | REVISED - T. RAMMACHER 03-12-99 |   | SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.     | VAR.   | 2018-0021 | WILL                      | 29        | 25 |
|   |                    | PLOT SCALE = 50.000' / IN. | REVISED - T. RAMMACHER 01-06-00 |   |  |                         |      |             | <b>TC-11</b>   |           | <b>CONTRACT NO. 62G14</b> |           |    |
|   |                    | PLOT DATE = 3/2/2011       | REVISED - C. JUCIUS 09-09-09    |   |  |                         |      |             | <small>FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT</small> |           |                           |           |    |



**2-LANE ROADWAY**

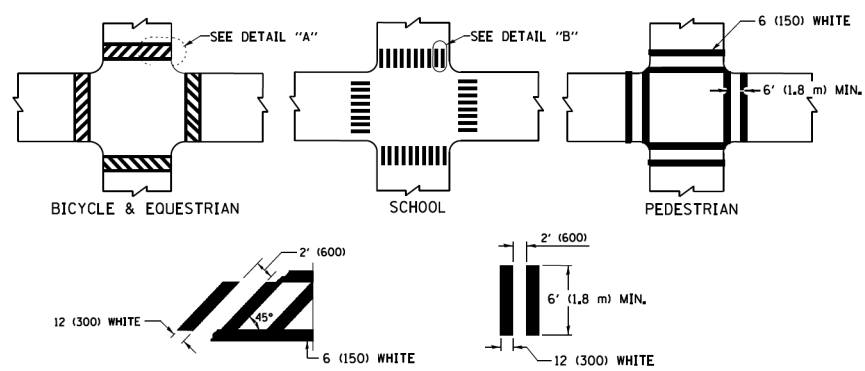


**MULTI-LANE UNDIVIDED**



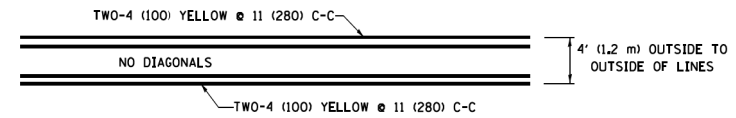
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

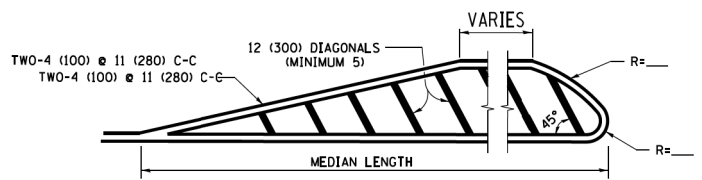


**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

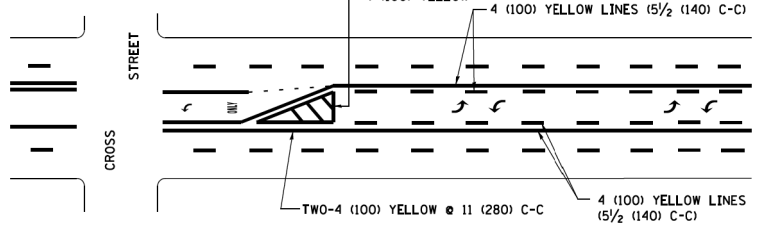


**4' (1.2 m) WIDE MEDIANS ONLY**



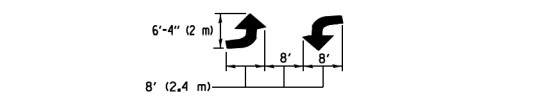
**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



**MEDIAN WITH TWO-WAY LEFT TURN LANE  
TYPICAL PAINTED MEDIAN MARKING**

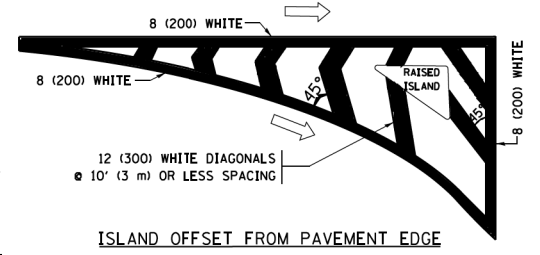
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



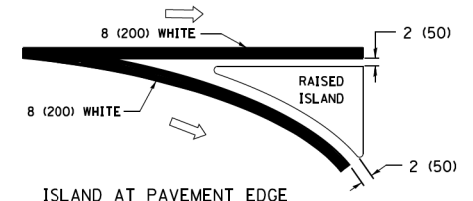
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

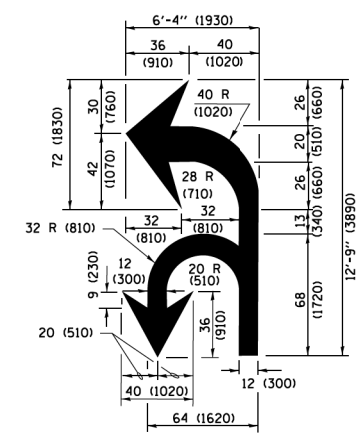


**ISLAND OFFSET FROM PAVEMENT EDGE**

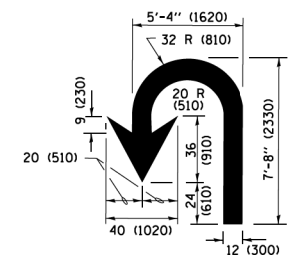


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

| D(FT) | SPEED LIMIT |
|-------|-------------|
| 345   | 30          |
| 425   | 35          |
| 500   | 40          |
| 580   | 45          |
| 665   | 50          |
| 750   | 55          |

| TYPE OF MARKING   | WIDTH OF LINE  | PATTERN                      | COLOR   | SPACING /REMARKS   |
|---|--|------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT   | 4 (100)  | SKIP-DASH                    | YELLOW  | 10' (3 m) LINE WITH 30' (9 m) SPACE  |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT   | 2 @ 4 (100)  | SOLID                        | YELLOW  | 11 (280) C-C   |
| NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS                                       | 4 (100)<br>2 @ 4 (100)   | SOLID<br>SOLID               | YELLOW<br>YELLOW  | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE<br>11 (280) C-C<br>OMIT SKIP-DASH CENTERLINE BETWEEN   |
| LANE LINES  | 4 (100)<br>5 (125) ON FREEWAYS   | SKIP-DASH<br>SKIP-DASH       | WHITE<br>WHITE  | 10' (3 m) LINE WITH 30' (9 m) SPACE  |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)                                   | SAME AS LINE BEING EXTENDED  | SKIP-DASH                    | SAME AS LINE BEING EXTENDED                             | 2' (600) LINE WITH 6' (1.8 m) SPACE  |
| EDGE LINES  | 4 (100)  | SOLID                        | YELLOW-LEFT<br>WHITE-RIGHT                              | OUTLINE MEDIANS IN YELLOW  |
| TURN LANE MARKINGS  | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))                                      | SOLID                        | WHITE   | SEE TYPICAL TURN LANE MARKING DETAIL   |
| TWO WAY LEFT TURN MARKING   | 2 @ 4 (100) EACH DIRECTION<br>8' (2.4m) LEFT ARROW   | SKIP-DASH AND SOLID IN PAIRS | YELLOW<br>WHITE   | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE<br>SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL             |
| CROSSWALK LINES (PEDESTRIAN)<br>A. DIAGONALS (BIKE & EQUESTRIAN)<br>B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150)<br>12 (300) @ 45°<br>12 (300) @ 90°  | SOLID<br>SOLID<br>SOLID      | WHITE<br>WHITE<br>WHITE                                 | NOT LESS THAN 6' (1.8 m) APART<br>2' (600) APART<br>2' (600) APART<br>SEE TYPICAL CROSSWALK MARKING DETAILS.   |
| STOP LINES  | 24 (600)   | SOLID                        | WHITE   | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS   | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°<br>NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID                        | YELLOW;<br>TWO WAY TRAFFIC<br>WHITE;<br>ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE<br>SEE TYPICAL PAINTED MEDIAN MARKING.  |
| CORE MARKING AND CHANNELIZING LINES   | 8 (200) WITH 12 (300) DIAGONALS @ 45°  | SOLID                        | WHITE   | DIAGONALS:<br>15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h))<br>20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)<br>30' (9 m) C-C (OVER 45MPH (70 km/h))              |
| RAILROAD CROSSING   | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"               | SOLID                        | WHITE   | SEE STATE STANDARD 780001<br>AREA OF "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"   |
| SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')  | 12 (300) @ 45°   | SOLID                        | WHITE - RIGHT<br>YELLOW - LEFT                          | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))<br>75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))<br>150' (45 m) C-C (OVER 45MPH (70 km/h))                       |
| U TURN ARROW  | SEE DETAIL   | SOLID                        | WHITE   | 16.3 SF  |
| 2 ARROW COMBINATION LEFT AND U TURN   | SEE DETAIL   | SOLID                        | WHITE   | 30.4 SF  |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

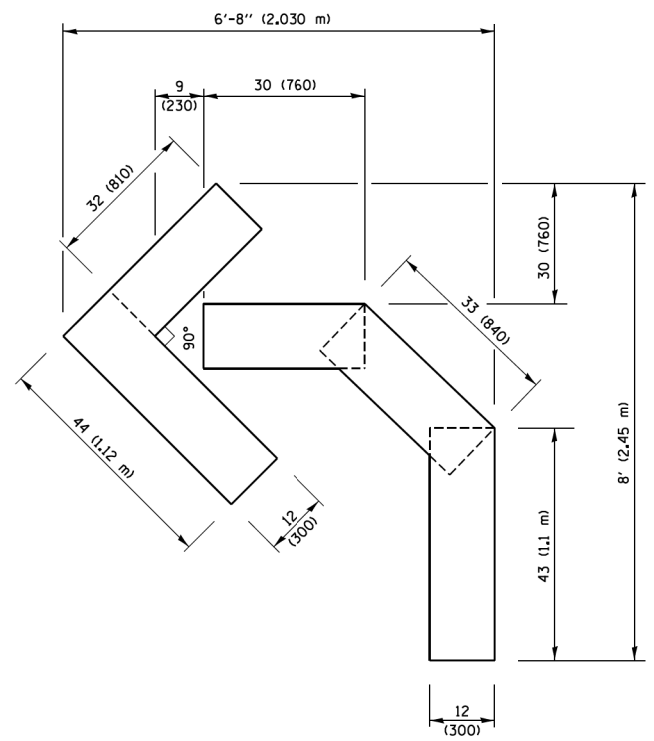
All dimensions are in inches (millimeters) unless otherwise shown.

|                                      |                                 |                  |                              |
|--------------------------------------|---------------------------------|------------------|------------------------------|
| FILE NAME = W:\dststd\22x34\1013.dgn | USER NAME = lrygg               | DESIGNED - EVERS | REVISED - C. JUCIUS 09-09-09 |
| Default                              | PLOT SCALE = 50,000 / 1" = 100' | DRAWN -          | REVISED - C. JUCIUS 07-01-13 |
|                                      | PLOT DATE = 6/23/2017           | CHECKED -        | REVISED - C. JUCIUS 12-21-15 |
|                                      |                                 | DATE - 03-19-90  | REVISED - C. JUCIUS 04-12-16 |

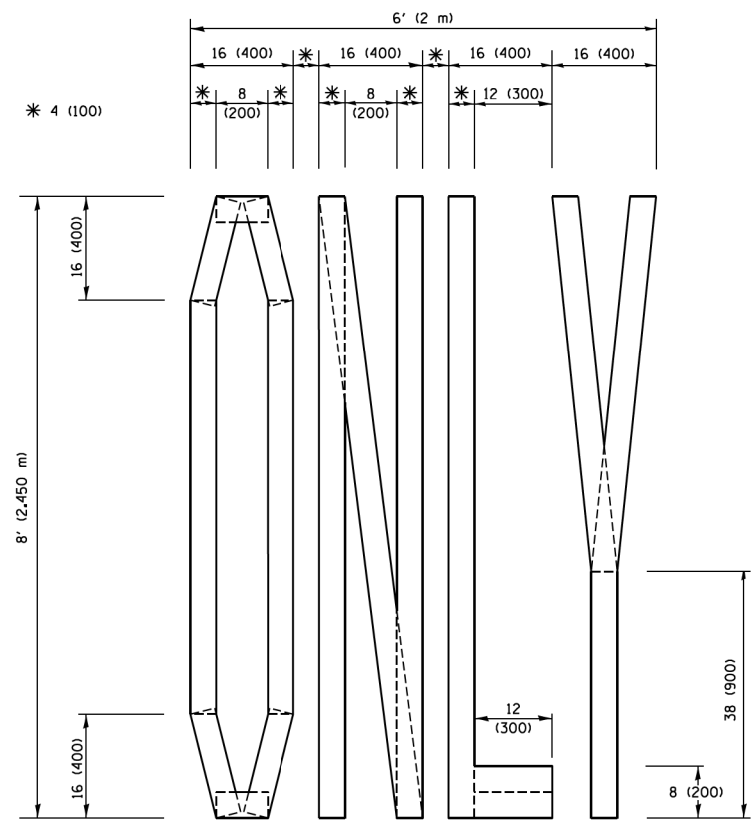
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|                                  |         |             |              |
|----------------------------------|---------|-------------|--------------|
| <b>DISTRICT ONE</b>              |         |             |              |
| <b>TYPICAL PAVEMENT MARKINGS</b> |         |             |              |
| SCALE: NONE                      | SHEET 1 | OF 1 SHEETS | STA. TO STA. |

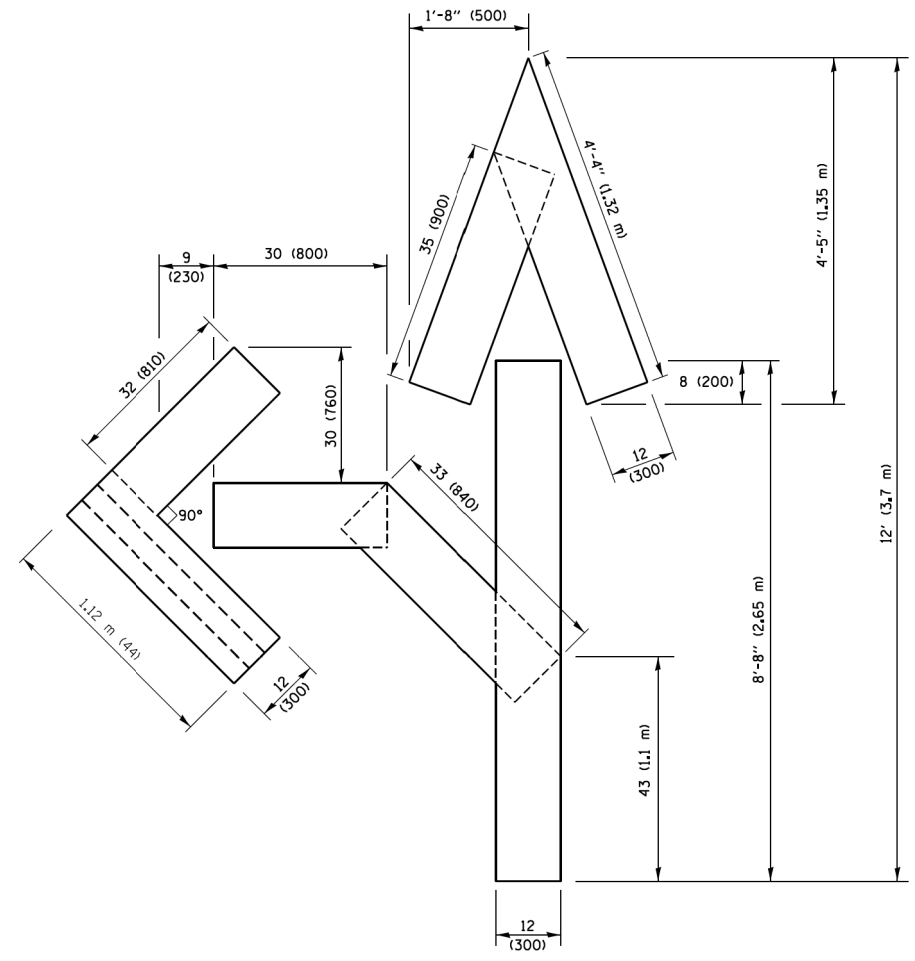
|                           |           |              |              |           |
|---------------------------|-----------|--------------|--------------|-----------|
| F.A.U. RTE.               | SECTION   | COUNTY       | TOTAL SHEETS | SHEET NO. |
| VAR.                      | 2018-0021 | WILL         | 29           | 26        |
| <b>TC-13</b>              |           | CONTRACT NO. | 62G14        |           |
| ILLINOIS FED. AID PROJECT |           |              |              |           |



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

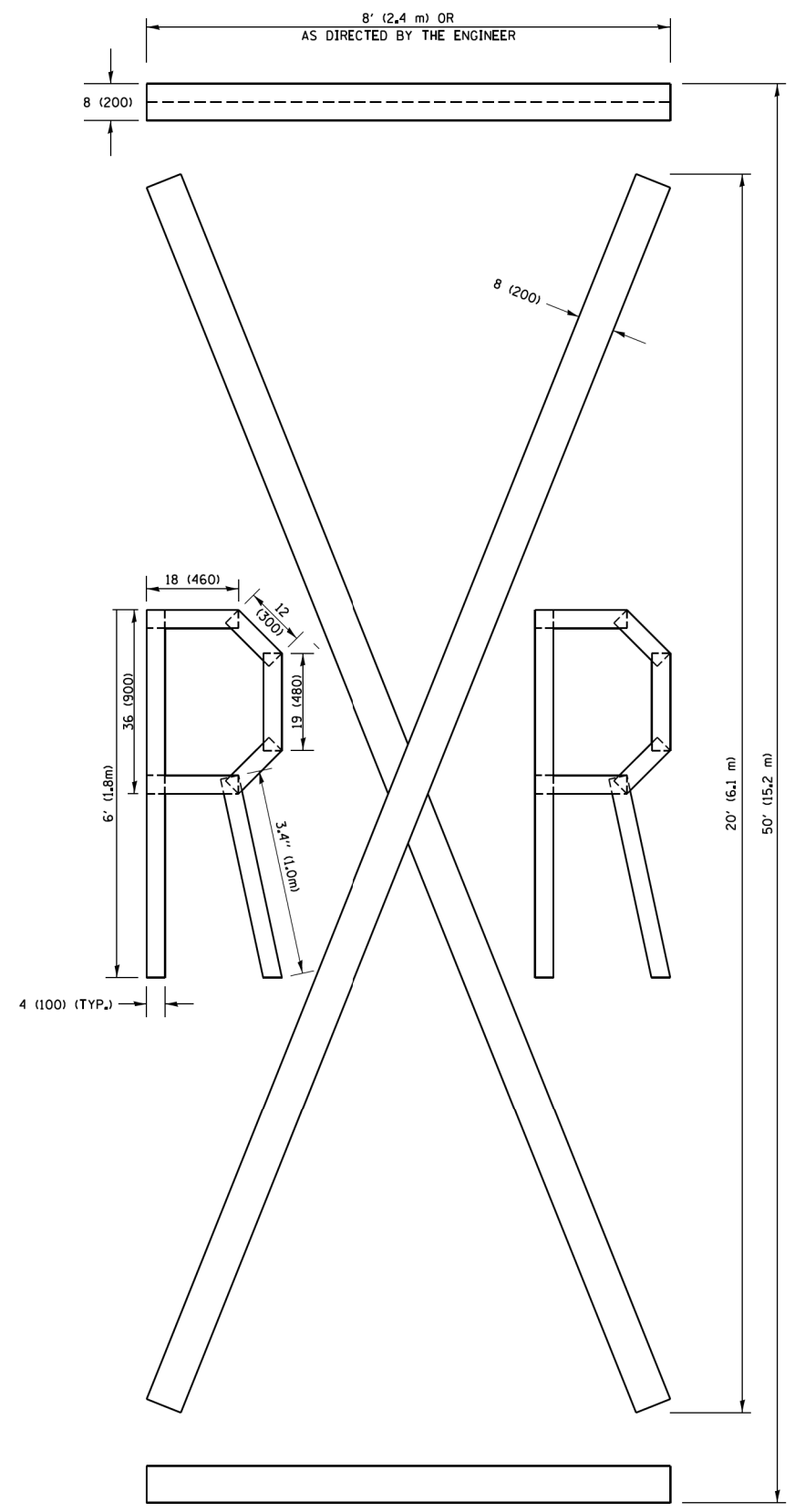


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

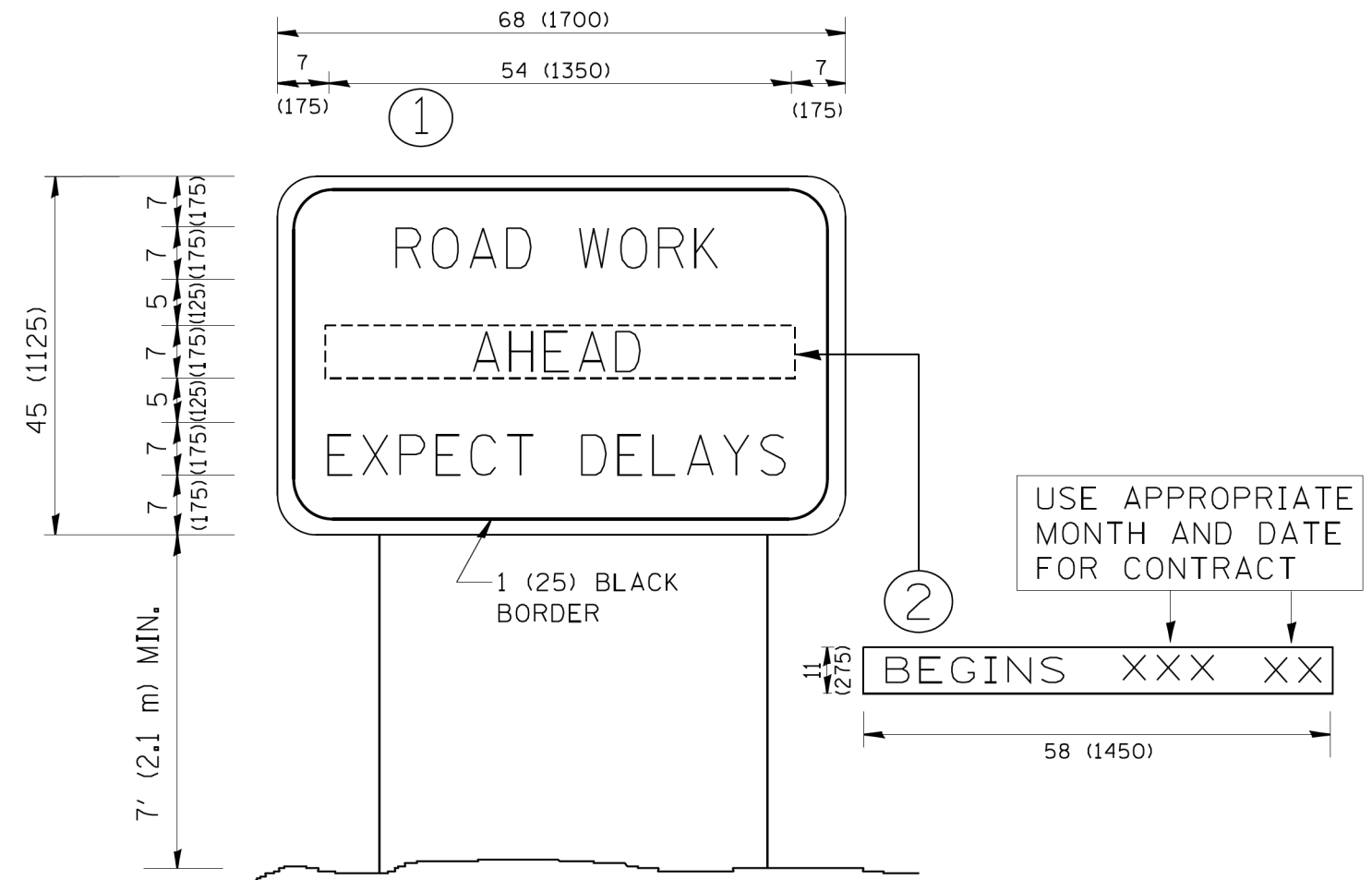
All dimensions are in inches (millimeters) unless otherwise shown.

|   |                     |            |                                |
|---|---------------------|------------|--------------------------------|
| FILE NAME =   | USER NAME = footemj | DESIGNED - | REVISED -T. RAMMACHER 03-02-98 |
| pw\j\1084E81D\INTEG\illinois.gov\FWIDOT\Documents\JDOT_Offices\District 1\Projects\Dist 1\CADD\cadd\CAD\cadd\to16.dgn |                     | DRAWN      | REVISED -E. GOMEZ 08-28-00     |
| PLOT SCALE = 50,0000 / 1 in.  |                     | CHECKED -  | REVISED -E. GOMEZ 08-28-00     |
| PLOT DATE = 9/15/2016   |                     | DATE -     | REVISED -A. SCHUETZE 09-15-16  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

|  |                         |      |         |
|--|-------------------------|------|---------|
| <b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b> |                         |      |         |
| SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |           |                    |              |           |
|---|-----------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
| VAR.  | 2018-0021 | WILL               | 29           | 27        |
| <b>TC-16</b>                                    |           | CONTRACT NO. 62G14 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                    |              |           |

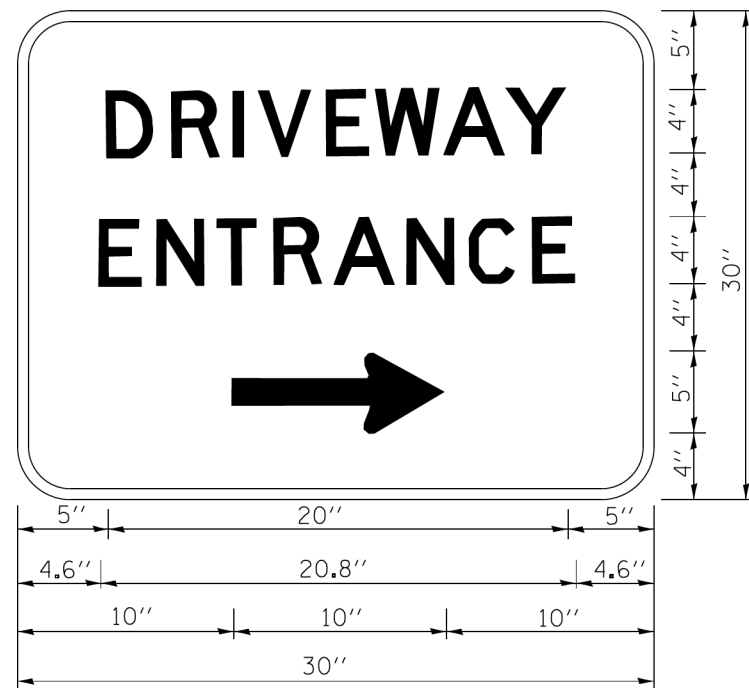


**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|   |                             |                       |  |   |   |             |      |                |         |         |                    |              |      |    |    |
|---|-----------------------------|-----------------------|--|---|---|-------------|------|----------------|---------|---------|--------------------|--------------|------|----|----|
| FILE NAME =<br>W:\diststd\22x34\tc22.dgn          | USER NAME = gegl1enobt      | DESIGNED -<br>DRAWN - | REVISED - R. MIRS 09-15-97<br>REVISED - R. MIRS 12-11-97 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ARTERIAL ROAD<br/>INFORMATION SIGN</b> |             |      | F.A.U.<br>RTE. | SECTION | COUNTY  | TOTAL<br>SHEETS    | SHEET<br>NO. |      |    |    |
|   | PLOT SCALE = 50.000 ' / IN. | CHECKED -             | REVISED - T. RAMMACHER 02-02-99                          |   | SCALE: NONE                               | SHEET NO. 1 | OF 1 | SHEETS         | STA.    | TO STA. | VAR.               | 2018-0021    | WILL | 29 | 28 |
|   | PLOT DATE = 1/4/2008        | DATE -                | REVISED - C. JUCIUS 01-31-07                             |   |   |             |      | <b>TC-22</b>   |         |         | CONTRACT NO. 62G14 |              |      |    |    |
| FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT |                             |                       |  |   |   |             |      |                |         |         |                    |              |      |    |    |



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE  
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)  
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY  
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE  
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

|   |                       |            |                              |
|---|-----------------------|------------|------------------------------|
| FILE NAME =                               | USER NAME = gaglianob | DESIGNED - | REVISED - C. JUCIUS 02-15-07 |
| ca\pwork\pwork\gaglianob\d0108315\tp6.dgn |                       | DRAWN -    | REVISED -                    |
|   |                       | CHECKED -  | REVISED -                    |
|   |                       | DATE -     | REVISED -                    |
|   |                       |            |                              |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |           |        |                           |              |
|---|-----------|--------|---------------------------|--------------|
| F.A.U.<br>RTE.                                  | SECTION   | COUNTY | TOTAL<br>SHEETS           | SHEET<br>NO. |
| VAR.  | 2018-0021 | WILL   | 29                        | 29           |
| <b>TC-26</b>                                    |           |        | <b>CONTRACT NO. 62G14</b> |              |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                           |              |