

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 1         |
|             |         | ILLINOIS  | CONTRACT NO. 76R00 |           |

D-98-043-22



LOCATION OF SECTION INDICATED THUS: - [rectangle] -

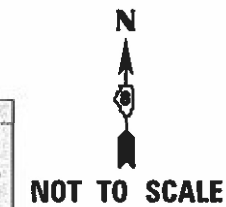
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAI ROUTE 255 (I-255)  
SECTION 82-2L-1  
PROJECT NHPP-JZHI(125)  
LIGHTING IMPROVEMENT (I-255 AT I-64)  
ST. CLAIR COUNTY

C-98-073-22

I-255 & I-64  
CASEYVILLE, ILLINOIS



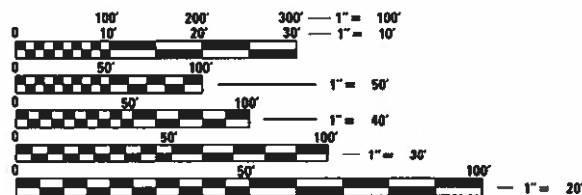
GANDHI AND ASSOCIATES, INC.  
NERANDRA C. THAKKAR, P.E.  
IL. LIC. NO. 062-035883

*Narendra C. Thakkar*

DATE: 12-30-2022

SIGNATURE AND SEAL APPLY TO SHEETS:  
1-18

LICENSE EXPIRES: 11-30-2023



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

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

PROJECT ENGINEER: CHERYL KEPLAR  
PROJECT MANAGER: RICHARD BARBEE

CONTRACT NO. 76R00

GROSS LENGTH = 16,300 FT. = 3.087 MILE  
NET LENGTH = 16,300 FT. = 3.087 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED *March 20 23*  
*Wade Boardman*  
REGIONAL ENGINEER

May 12, 2023 *Eric A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 *Steph McSwain*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 LEGEND, GENERAL NOTES, INDEX OF SHEETS, AND STANDARDS
- 3-4 SUMMARY OF QUANTITIES
- 5-6 SCHEDULE OF QUANTITIES
- 7-16 LIGHTING RETROFIT PLAN
- 17 SINGLE LINE WIRING DIAGRAM
- 18 LUMINAIRE PERFORMANCE TABLE

**STANDARDS**

|           |  |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS                          |
| 701101-05 | OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE          |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY                     |
| 701400-11 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY                           |
| 701401-13 | LANE CLOSURE, FREEWAY/EXPRESSWAY                                       |
| 701406-13 | LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY                  |
| 701411-09 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH |
| 701428-01 | TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY/EXPRESSWAY                  |
| 701456-05 | PARTIAL EXIT RAMP CLOSURE, FREEWAY/EXPRESSWAY                          |
| 821101-02 | LUMINAIRE WIRING IN POLE   |
| 830001-03 | LIGHT POLE ALUMINUM MAST ARM   |
| 838001-01 | BREAKAWAY DEVICES  |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT                                       |
| 701901-08 | TRAFFIC CONTROL DEVICES  |

**DISTRICT GENERAL NOTES**

- I. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:  
 \* AT&T ILLINOIS (PHONE/COMMUNICATIONS)  
 \* CHARTER/SPECTRUM COMMUNICATIONS (CABLE TV)  
 \* MEDIACOM (CABLE TV)  
 \* USIC LOCATING SERVICES  
 MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- II. A FULL SURVEY WAS NOT PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM, FIELD MEASUREMENTS, AND SUPPLEMENTAL SURVEY.
- III. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN, AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN, AND DISADVANTAGE INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G. MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN ABOUT THE PROGRAM FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- IV. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- V. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

**LIGHTING GENERAL NOTES**

- 1. ALL LUMINAIRES SHALL BE 480 VOLTS.
- 2. EXISTING WIRING IN CONDUIT ATTACHED TO STRUCTURES AND IN CONDUIT UNDER PAVEMENT SHALL BE REMOVED AND REPLACED. EXISTING WIRING UNDER PAVEMENT SHALL BE CUT AT BOTH ENDS OF UNDERGROUND SLEEVES TO FACILITATE REMOVAL.
- 3. EXISTING DIRECT-BURIED WIRE SHALL BE ABANDONED IN PLACE.
- 4. CONDUCTOR SPLICES SHALL BE IN POLE BASES OR JUNCTION BOXES. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
- 5. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC, AND LOCAL CODES.
- 6. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
- 7. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING ELECTRIC CABLE TO AVOID CONFLICT WITH EXISTING UNDERGROUND UTILITIES, TREES, AND ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- 8. A NOMINAL QUANTITY OF UNDERGROUND CONDUIT HAS BEEN PROVIDED TO BE USED IN THE EVENT THAT EXISTING SLEEVES UNDER PAVEMENT ARE NO LONGER USABLE.

**COMMITMENTS**

NONE

**LEGEND**

|  |   |
|--|---|
|  | EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH EXISTING LED LUMINAIRE (OUTPUT DESIGNATION H) TO REMAIN         |
|  | PROPOSED TWIN ARM MEDIAN MOUNTED LIGHT POLE ON EXISTING FOUNDATION, 50' M.H., WITH LED LUMINAIRE (OUTPUT DESIGNATION H)     |
|  | EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)   |
|  | EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 17' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)   |
|  | EXISTING SINGLE ARM LIGHT POLE, GROUND MOUNTED, 50' M.H., WITH HPS LUMINAIRE TO BE REPLACED WITH LED (OUTPUT DESIGNATION H) |
|  | EXISTING LIGHTING CONTROLLER TO REMAIN  |
|  | EXISTING POWER POLE TO REMAIN   |
|  | EXISTING JUNCTION BOX   |
|  | EXISTING BURIED CABLE TO BE ABANDONED   |
|  | EXISTING CABLE IN DUCT TO BE REMOVED (UNLESS NOTED OTHERWISE ON PLANS)  |
|  | EXISTING CONDUIT TO BE REUSED   |
|  | PROPOSED BURIED CABLE   |
|  | PROPOSED CABLE IN DUCT  |

**CABLE AND CONDUIT LEGEND**

- (A) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87000775)
- (B) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87000885)
- (C) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87005275)
- (D) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87005385)
- (E) REMOVE ELECTRIC CABLE FROM CONDUIT (89502300)
- (F) EXISTING ELECTRIC CABLE TO REMAIN

REV. - MS

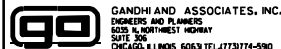
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|  |                                   |                   |           |   |  |                    |         |           |              |           |
|--|-----------------------------------|-------------------|-----------|---|--|--------------------|---------|-----------|--------------|-----------|
|  | USER NAME = brice                 | DESIGNED - BR     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>LEGEND, GENERAL NOTES,<br/>INDEX OF SHEETS, AND STANDARDS</b> | F.A.I. RTE.        | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|  | PLOT SCALE = 0:2.0000" = 1" / in. | CHECKED - NT      | REVISED - |   |  | 255                | 82-2L-1 | ST. CLAIR | 18           | 2         |
|  | PLOT DATE = 3/6/2023              | DATE - 2023-03-03 | REVISED - |   |  | CONTRACT NO. 76R00 |         |           |              |           |
|  |                                   |                   |           |   |  | ILLINOIS           |         |           |              |           |

| CODE NO.   | ITEM   | UNIT   | TOTAL QUANTITY | 90% FED<br>10% STATE |       |
|------------|--|--------|----------------|----------------------|-------|
|            |  |        |                | CONSTRUCTION CODE    |       |
|            |  |        |                | HIGHWAY LIGHTING     | URBAN |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL                           | CU YD  | 258            | 258                  |       |
| * 66900530 | SOIL DISPOSAL ANALYSIS                               | EACH   | 9              | 9                    |       |
| * 66901001 | REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN           | L SUM  | 1              | 1                    |       |
| * 66901003 | REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT       | L SUM  | 1              | 1                    |       |
| * 66901006 | REGULATED SUBSTANCES MONITORING                      | CAL DA | 14             | 14                   |       |
| 67100100   | MOBILIZATION   | L SUM  | 1              | 1                    |       |
| 70100420   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701411      | EACH   | 16             | 16                   |       |
| 70100700   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701406      | L SUM  | 1              | 1                    |       |
| 70100800   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701401      | L SUM  | 1              | 1                    |       |
| 70100825   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701456      | L SUM  | 1              | 1                    |       |
| 81028240   | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.       | FOOT   | 100            | 100                  |       |
| 82110008   | LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H        | EACH   | 156            | 156                  |       |
| 83010128   | LIGHT POLE, ALUMINUM, 50 FT. M.H., 2-8 FT. MAST ARMS | EACH   | 1              | 1                    |       |
| 84200600   | REMOVAL OF LIGHTING UNIT, NO SALVAGE                 | EACH   | 1              | 1                    |       |

\* SPECIALTY ITEM

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|-----------------------------------|-------------------|-----------|
| USER NAME = brice                 | DESIGNED - BR     | REVISED - |
|                                   | DRAWN - BR        | REVISED - |
| PLOT SCALE = 0:2.0000" = 1" / in. | CHECKED - NT      | REVISED - |
| PLOT DATE = 3/6/2023              | DATE - 2023-03-03 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S.

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 3         |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |

90% FED  
10% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM   | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE |       |
|----------|--|------|----------------|-------------------|-------|
|          |  |      |                | HIGHWAY LIGHTING  |       |
|          |  |      |                | 0021              | RURAL |
| 87000775 | ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 | FOOT | 1396           | 1396              |       |
| 87000885 | ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 | FOOT | 15130          | 15130             |       |
| 87005275 | ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6  | FOOT | 8802           | 8802              |       |
| 87005385 | ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8  | FOOT | 21260          | 21260             |       |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT   | FOOT | 49578          | 49578             |       |
| X1400267 | REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE                                  | EACH | 154            | 154               |       |
|          |  |      |                |                   |       |
|          |  |      |                |                   |       |
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|                                  |                   |           |
|----------------------------------|-------------------|-----------|
| USER NAME = brice                | DESIGNED - BR     | REVISED - |
| PLOT SCALE = 0.2:0000 = 1" / in. | DRAWN - BR        | REVISED - |
| PLOT DATE = 3/6/2023             | CHECKED - NT      | REVISED - |
|                                  | DATE - 2023-03-03 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|   |  |
|---|--|
| <b>SUMMARY OF QUANTITIES<br/>(2 OF 2)</b> |  |
| SCALE: N.T.S.                             |  |

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO.          |
|-------------|---------|-----------|--------------|--------------------|
| 255         | 82-2L-1 | ST. CLAIR | 18           | 4                  |
|             |         |           |              | CONTRACT NO. 76R00 |
| ILLINOIS    |         |           |              |                    |





CONTROLLER #19

| CRKT# | FROM/TO   | ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 | ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 | ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 | ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 | REMOVE ELECTRIC CABLE FROM CONDUIT | COMMENT                 |
|-------|-----------|--|--|---|---|------------------------------------|-------------------------|
| 19A   | A1        |  |  |   | 309   |                                    |                         |
| 19A   | A2        | CNTRL #19  |  |   | 92  |                                    |                         |
| 19A   | WX16      | WX18   |  |   | 273   |                                    |                         |
| 19A   | WX18      | WX20   |  |   | 265   |                                    |                         |
| 19A   | WX20      | WX22   |  |   | 265   |                                    |                         |
| 19A   | WX22      | WX24   |  |   | 259   |                                    |                         |
| 19A   | WX24      | WX26   |  |   | 257   |                                    |                         |
| 19A   | WX26      | WX28   |  |   | 255   |                                    |                         |
| 19A   | WX28      | WXB2 A&B   | 199  |   | 239   | 597                                | EX. BRIDGE CONDUIT      |
| 19A   | WXB2 A&B  | WXB4 A&B   | 315  |   |   | 945                                |                         |
| 19A   | WXB4 A&B  | WXB6 A&B   | 316  |   |   | 948                                |                         |
| 19A   | WXB6 A&B  | WXB8 A&B   | 317  |   |   | 951                                |                         |
| 19A   | WXB14 A&B | WXB12 A&B  | 212  |   |   | 636                                |                         |
| 19A   | WXB12 A&B | WXB10 A&B  | 218  |   |   | 654                                |                         |
| 19A   | WXB10 A&B | WXB8 A&B   | 310  |   |   | 930                                |                         |
| 19A   | WXB8 A&B  | B1   | 58   |   |   | 174                                | EX. UNDERGROUND CONDUIT |
| 19A   | B1        | B2   |  | 127   |   |                                    |                         |
| 19A   | B2        | B3   |  | 184   |   |                                    |                         |
| 19A   | B3        | B4   |  | 188   |   |                                    |                         |
| 19A   | B4        | B3   |  |   | 192   |                                    |                         |
| 19A   | B5        | B4   |  |   | 188   |                                    |                         |
| 19A   | B4        | B3   | 62   |   |   | 186                                | EX. UNDERGROUND CONDUIT |
| 19A   | B3        | A3   |  | 105   |   |                                    |                         |
| 19A   | A5        | A4   |  |   | 302   |                                    |                         |
| 19A   | A4        | A3   |  |   | 355   |                                    |                         |
| 19A   | A3        | CNTRL #19  |  | 247   |   |                                    |                         |
| 19B   | SM33      | SM31   |  |   | 340   |                                    |                         |
| 19B   | SM31      | SM29   |  |   | 329   |                                    |                         |
| 19B   | SM29      | SM27   |  |   | 312   |                                    |                         |
| 19B   | SM27      | SM25   |  |   | 315   |                                    |                         |
| 19B   | SM25      | SM23   |  |   | 315   |                                    |                         |
| 19B   | SM23      | SMB27 A&B  | 62   |   |   | 186                                | EX. UNDERGROUND CONDUIT |
| 19B   | SMB27 A&B | SMB25 A&B  | 304  |   |   | 912                                |                         |
| 19B   | SMB25 A&B | SMB23 A&B  | 287  |   |   | 861                                |                         |
| 19B   | SMB23 A&B | SMB19 A&B  | 290  |   |   | 870                                |                         |
| 19B   | SMB19 A&B | SMB21 A&B  | 291  |   |   | 873                                |                         |
| 19B   | SMB21 A&B | SMB23 A&B  | 293  |   |   | 879                                |                         |
| 19B   | SMB23 A&B | CNTRL #19  | 71   |   |   | 213                                | EX. UNDERGROUND CONDUIT |
| 19C   | NM32      | NM30   |  |   | 331   |                                    |                         |
| 19C   | NM30      | NM28   |  |   | 330   |                                    |                         |
| 19C   | NM28      | NM26   |  |   | 340   |                                    |                         |
| 19C   | NM26      | NM24   |  |   | 300   |                                    |                         |
| 19C   | NM24      | NM22   |  |   | 316   |                                    |                         |
| 19C   | NM22      | NMB28 A&B  | 53   |   |   | 159                                | EX. UNDERGROUND CONDUIT |
| 19C   | NMB28 A&B | NMB26 A&B  | 301  |   |   | 903                                |                         |
| 19C   | NMB26 A&B | NMB24 A&B  | 293  |   |   | 879                                |                         |
| 19C   | F4        | F3   |  |   | 179   |                                    |                         |
| 19C   | F3        | F2   |  |   | 179   |                                    |                         |
| 19C   | F1        | F2   |  |   | 180   |                                    |                         |
| 19C   | F2        | NMB22 A&B  | 83   |   |   | 319                                | EX. UNDERGROUND CONDUIT |
| 19C   | NMB18 A&B | NMB20 A&B  | 305  |   |   | 915                                |                         |
| 19C   | NMB20 A&B | NMB22 A&B  | 300  |   |   | 900                                |                         |
| 19C   | NMB22 A&B | NMB24 A&B  | 289  |   |   | 867                                |                         |
| 19C   | E5        | E6   |  |   | 283   |                                    |                         |
| 19C   | E6        | NMB24 A&B  | 68   |   |   | 92                                 | EX. UNDERGROUND CONDUIT |
| 19C   | NMB24 A&B | CNTRL #19  | 193  |   |   | 579                                | EX. UNDERGROUND CONDUIT |
| 19D   | WX40      | WX38   |  |   | 319   |                                    |                         |
| 19D   | WX38      | WX36   |  |   | 305   |                                    |                         |
| 19D   | WX36      | WX34   |  |   | 283   |                                    |                         |
| 19D   | WX34      | WX32   |  |   | 285   |                                    |                         |
| 19D   | WX32      | WX30   |  |   | 250   |                                    |                         |
| 19D   | WX30      | WXB26 A&B  | 67   |   |   | 201                                | EX. UNDERGROUND CONDUIT |
| 19D   | WXB26 A&B | WXB24 A&B  | 300  |   |   | 900                                |                         |
| 19D   | WXB24 A&B | WXB22 A&B  | 300  |   |   | 900                                |                         |
| 19D   | WXB16 A&B | WXB18 A&B  | 300  |   |   | 900                                |                         |
| 19D   | WXB18 A&B | WXB20 A&B  | 300  |   |   | 900                                |                         |
| 19D   | WXB20 A&B | WXB22 A&B  | 300  |   |   | 900                                |                         |
| 19D   | WXB22 A&B | E1   | 78   |   |   | 234                                | EX. UNDERGROUND CONDUIT |
| 19D   | E1        | E2   |  | 51  |   |                                    |                         |
| 19D   | E2        | E3   |  | 289   |   |                                    |                         |
| 19D   | E3        | E4   |  | 287   |   |                                    |                         |
| 19D   | E4        | CNTRL #19  | 273  |   |   | 841                                | EX. UNDERGROUND CONDUIT |
| TOTAL |           |  | 735  | 6673  | 3606  | 10005                              | 22224                   |

| CRKT# | POLE #    | ROADWAY   | STATION  | LUMINAIRE, LED, ROADWAY OUTPUT DESIGNATION H | LIGHT POLE, ALUMINUM 50 FT. M.H. 2-8 FT. MAST ARM |
|-------|-----------|-----------|----------|--|---|
| 19A   | WXB2 A&B  | WB BAR.   | 267+35L  | 2  |   |
| 19A   | WXB4 A&B  | WB BAR.   | 270+50L  | 2  |   |
| 19A   | WXB6 A&B  | WB BAR.   | 273+65L  | 2  | 1   |
| 19A   | WXB8 A&B  | WB BAR.   | 276+80L  | 2  |   |
| 19A   | WXB10 A&B | WB BAR.   | 279+95L  | 2  |   |
| 19A   | WXB12 A&B | WB BAR.   | 282+13L  | 2  |   |
| 19A   | WXB14 A&B | WB BAR.   | 284+25L  | 2  |   |
| 19A   | WX16      | W. SHLDR. | 248+25L  | 1  |   |
| 19A   | WX18      | W. SHLDR. | 250+95L  | 1  |   |
| 19A   | WX20      | W. SHLDR. | 253+60L  | 1  |   |
| 19A   | WX22      | W. SHLDR. | 256+25L  | 1  |   |
| 19A   | WX24      | W. SHLDR. | 258+90L  | 1  |   |
| 19A   | WX26      | W. SHLDR. | 261+55L  | 1  |   |
| 19A   | WX28      | W. SHLDR. | 264+20L  | 1  |   |
| 19A   | A1        | RAMP A    | 3+58R    | 1  |   |
| 19A   | A2        | RAMP A    | 6+75R    | 1  |   |
| 19A   | A3        | RAMP A    | 10+10R   | 1  |   |
| 19A   | A4        | RAMP A    | 13+35R   | 1  |   |
| 19A   | A5        | RAMP A    | 16+80R   | 1  |   |
| 19A   | B1        | RAMP B    | 2+35R    | 1  |   |
| 19A   | B2        | RAMP B    | 4+50R    | 1  |   |
| 19A   | B3        | RAMP B    | 6+70R    | 1  |   |
| 19A   | B4        | RAMP B    | 8+90R    | 1  |   |
| 19A   | B5        | RAMP B    | 11+10R   | 1  |   |
| 19B   | SM23      | S. SHLDR. | 1070+90L | 1  |   |
| 19B   | SM25      | S. SHLDR. | 1074+05L | 1  |   |
| 19B   | SM27      | S. SHLDR. | 1077+20  | 1  |   |
| 19B   | SM29      | S. SHLDR. | 1080+32L | 1  |   |
| 19B   | SM31      | S. SHLDR. | 1083+48L | 1  |   |
| 19B   | SM33      | S. SHLDR. | 1086+75L | 1  |   |
| 19B   | SMB17 A&B | SB BAR.   | 1052+90L |  |   |
| 19B   | SMB19 A&B | SB BAR.   | 1055+86L |  |   |
| 19B   | SMB21 A&B | SB BAR.   | 1058+83L |  |   |
| 19B   | SMB23 A&B | SB BAR.   | 1061+80L |  |   |
| 19B   | SMB25 A&B | SB BAR.   | 1064+75L |  |   |
| 19B   | SMB27 A&B | SB BAR.   | 1067+80L |  |   |
| 19C   | NMB16 A&B | SB BAR.   | 1049+70R |  |   |
| 19C   | NMB18 A&B | SB BAR.   | 1053+40R |  |   |
| 19C   | NMB20 A&B | SB BAR.   | 1056+37R |  |   |
| 19C   | NMB22 A&B | SB BAR.   | 1059+30R |  |   |
| 19C   | NMB24 A&B | SB BAR.   | 1062+15R |  |   |
| 19C   | NMB26 A&B | SB BAR.   | 1065+00R |  |   |
| 19C   | NMB28 A&B | SB BAR.   | 1068+00R |  |   |
| 19C   | NM22      | N. SHLDR. | 1071+10R | 1  |   |
| 19C   | NM24      | N. SHLDR. | 1074+25R | 1  |   |
| 19C   | NM26      | N. SHLDR. | 1077+50R | 1  |   |
| 19C   | NM28      | N. SHLDR. | 1080+65R | 1  |   |
| 19C   | NM30      | N. SHLDR. | 1084+10R | 1  |   |
| 19C   | NM32      | N. SHLDR. | 1087+55R | 1  |   |
| 19C   | E5        | RAMP E    | 15+05R   | 1  |   |
| 19C   | E6        | RAMP E    | 17+95R   | 1  |   |
| 19C   | F1        | RAMP F    | 2+60R    | 1  |   |
| 19C   | F2        | RAMP F    | 4+65R    | 1  |   |
| 19C   | F3        | RAMP F    | 6+70R    | 1  |   |
| 19C   | F4        | RAMP F    | 8+75R    | 1  |   |
| 19D   | WXB16 A&B | WB BAR.   | 287+25L  | 2  |   |
| 19D   | WXB18 A&B | WB BAR.   | 290+25L  | 2  |   |
| 19D   | WXB20 A&B | WB BAR.   | 293+25L  | 2  |   |
| 19D   | WXB22 A&B | WB BAR.   | 296+25L  | 2  |   |
| 19D   | WXB24 A&B | WB BAR.   | 299+25L  | 2  |   |
| 19D   | WXB26 A&B | WB BAR.   | 302+25L  | 2  |   |
| 19D   | WX30      | W. SHLDR. | 304+40L  | 1  |   |
| 19D   | WX32      | W. SHLDR. | 306+90L  | 1  |   |
| 19D   | WX34      | W. SHLDR. | 309+75L  | 1  |   |
| 19D   | WX36      | W. SHLDR. | 312+55L  | 1  |   |
| 19D   | WX38      | W. SHLDR. | 315+50L  | 1  |   |
| 19D   | WX40      | W. SHLDR. | 318+60L  | 1  |   |
| 19D   | E1        | RAMP E    | 3+23R    | 1  |   |
| 19D   | E2        | RAMP E    | 6+20R    | 1  |   |
| 19D   | E3        | RAMP E    | 9+15R    | 1  |   |
| 19D   | E4        | RAMP E    | 12+10R   | 1  |   |
| TOTAL |           |           |          | 71   | 1   |

MODEL: Default  
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|-----------------------------------|-------------------|-----------|
| USER NAME = brice                 | DESIGNED - BR     | REVISED - |
|                                   | DRAWN - BR        | REVISED - |
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| PLOT DATE = 3/6/2023              | DATE - 2023-03-03 | REVISED - |

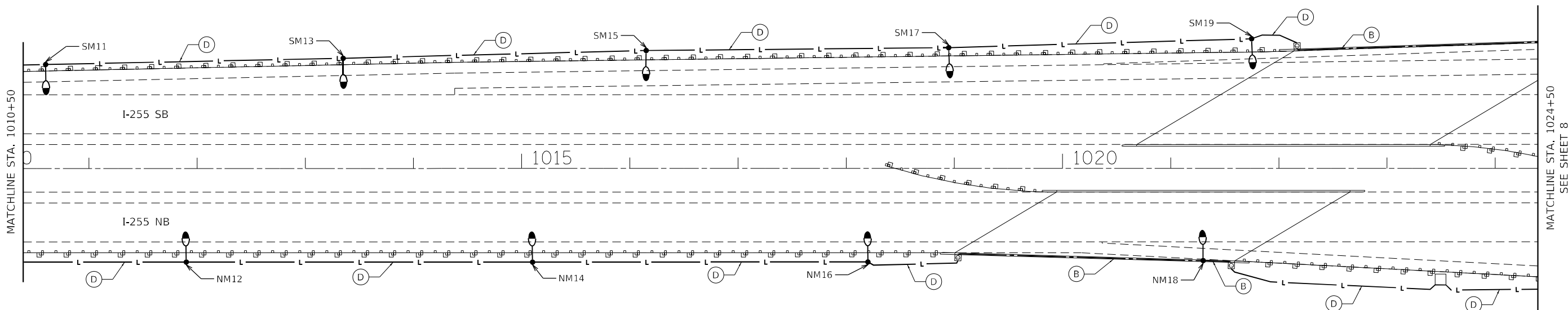
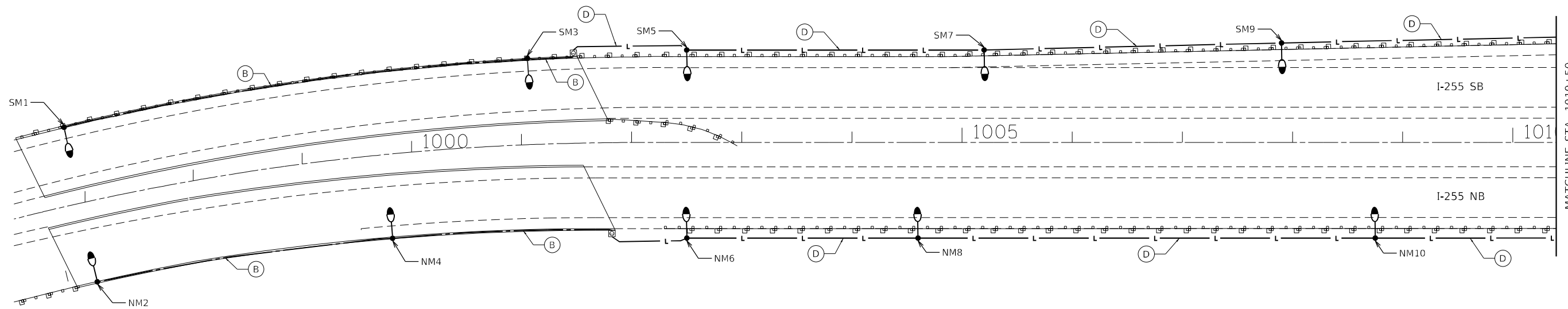
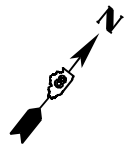
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: N.T.S.

| F.A.I. RTE.        | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|-----------|--------------|-----------|
| 255                | 82-2L-1 | ST. CLAIR | 18           | 6         |
| CONTRACT NO. 76R00 |         |           | ILLINOIS     |           |

REV. - MS



MODEL: Default  
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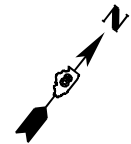
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| PLOT SCALE = 100:0.0000 " = 1" / in. | DRAWN - BR        | REVISED - |
| PLOT DATE = 3/6/2023                 | CHECKED - NT      | REVISED - |
|                                      | DATE - 2023-03-03 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50'      STA. 996+50      TO STA. 1024+50

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 7         |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |

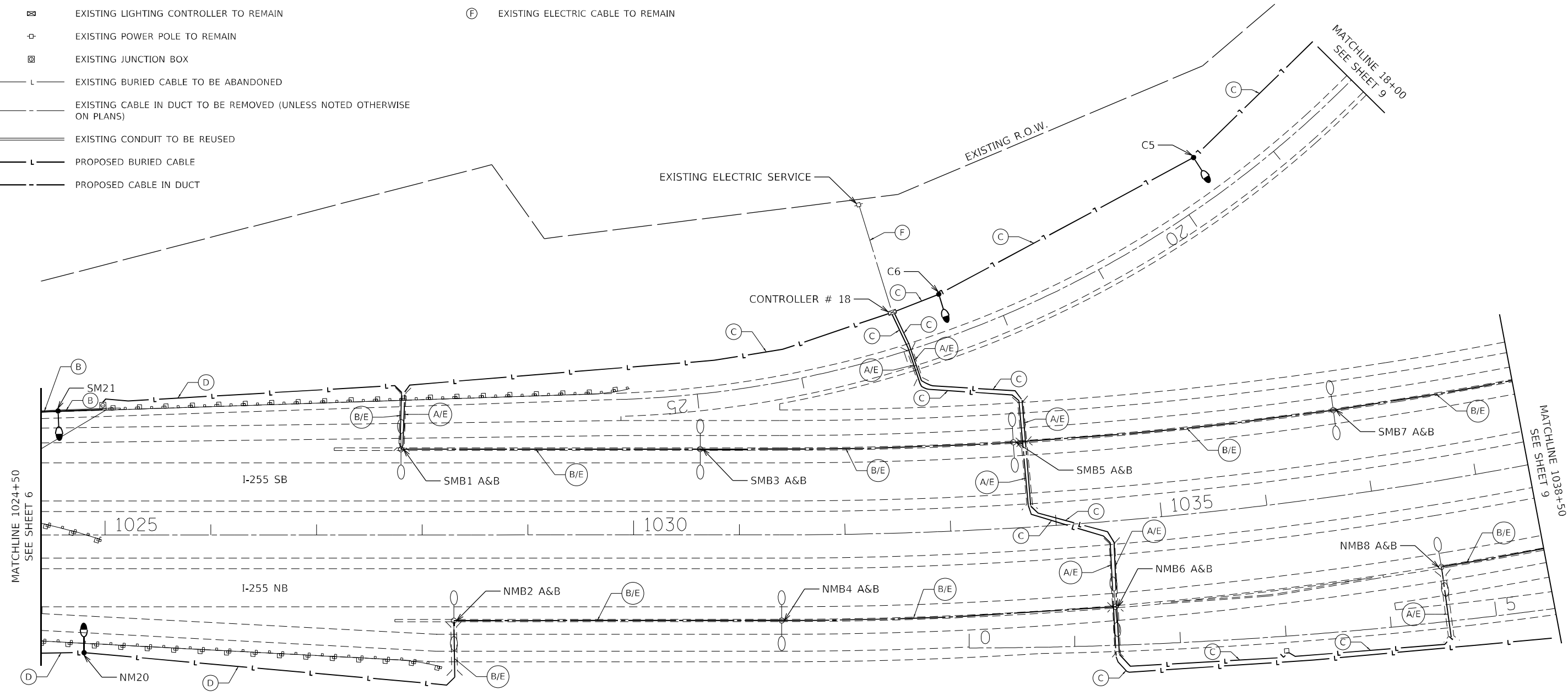


**LEGEND**

- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH EXISTING LED LUMINAIRE (OUTPUT DESIGNATION H) TO REMAIN
- PROPOSED TWIN ARM MEDIAN MOUNTED LIGHT POLE ON EXISTING FOUNDATION, 50' M.H., WITH LED LUMINAIRE (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 17' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING SINGLE ARM LIGHT POLE, GROUND MOUNTED, 50' M.H., WITH HPS LUMINAIRE TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING LIGHTING CONTROLLER TO REMAIN
- EXISTING POWER POLE TO REMAIN
- EXISTING JUNCTION BOX
- EXISTING BURIED CABLE TO BE ABANDONED
- EXISTING CABLE IN DUCT TO BE REMOVED (UNLESS NOTED OTHERWISE ON PLANS)
- EXISTING CONDUIT TO BE REUSED
- PROPOSED BURIED CABLE
- PROPOSED CABLE IN DUCT

**CABLE AND CONDUIT LEGEND**

- (A) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87000775)
- (B) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87000885)
- (C) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87005275)
- (D) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87005385)
- (E) REMOVE ELECTRIC CABLE FROM CONDUIT (89502300)
- (F) EXISTING ELECTRIC CABLE TO REMAIN



MODEL: Default  
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| PLOT SCALE = 100:0.0000 " = 1' / in. | DRAWN - BR        | REVISED - |
| PLOT DATE = 3/6/2023                 | CHECKED - NT      | REVISED - |
|                                      | DATE - 2023-03-03 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50'      STA. 1024+50      TO STA. 1038+50

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 8         |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |



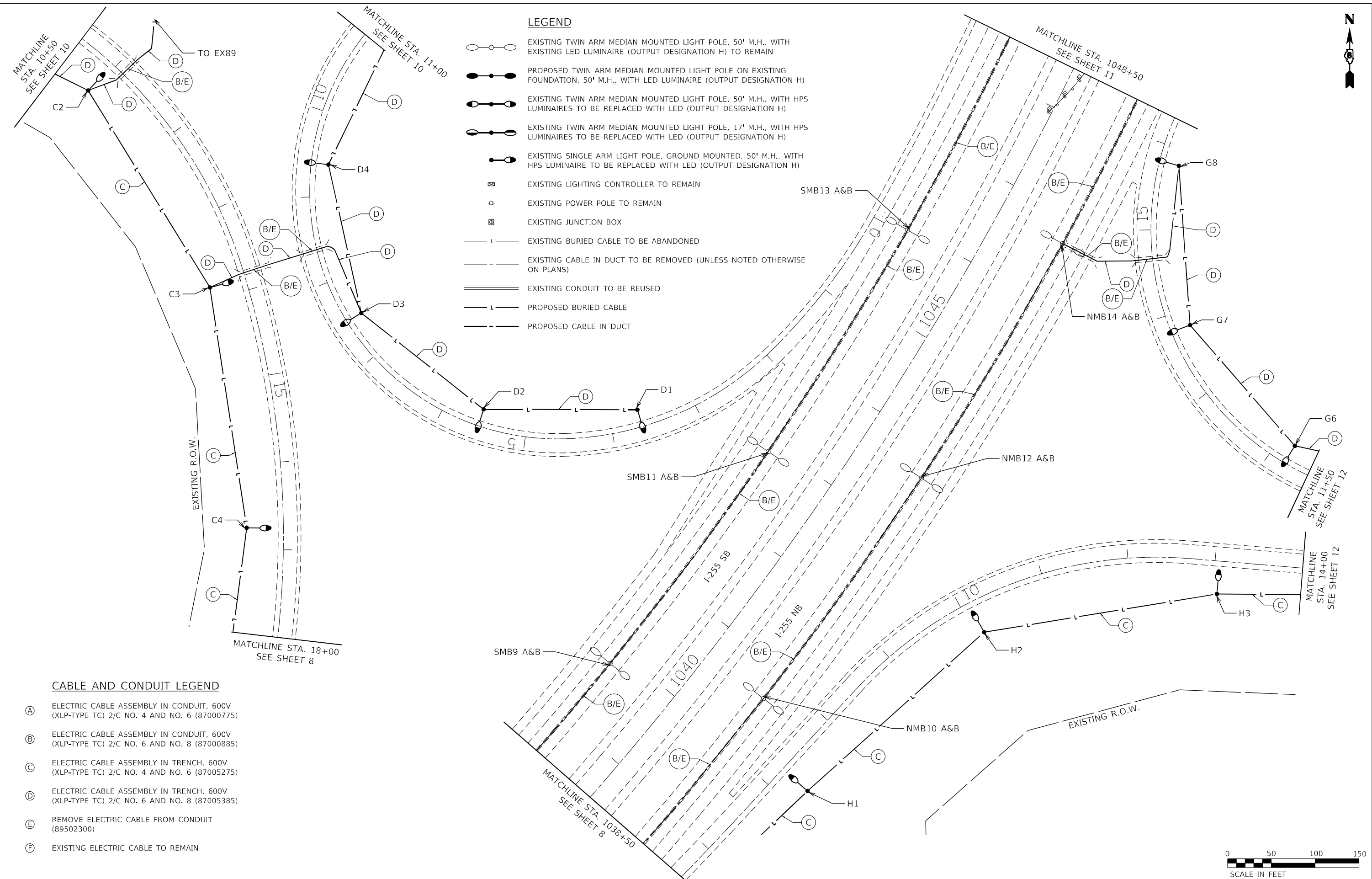
**LEGEND**

- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH EXISTING LED LUMINAIRE (OUTPUT DESIGNATION H) TO REMAIN
- PROPOSED TWIN ARM MEDIAN MOUNTED LIGHT POLE ON EXISTING FOUNDATION, 50' M.H., WITH LED LUMINAIRE (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 17' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING SINGLE ARM LIGHT POLE, GROUND MOUNTED, 50' M.H., WITH HPS LUMINAIRE TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING LIGHTING CONTROLLER TO REMAIN
- EXISTING POWER POLE TO REMAIN
- EXISTING JUNCTION BOX
- EXISTING BURIED CABLE TO BE ABANDONED
- EXISTING CABLE IN DUCT TO BE REMOVED (UNLESS NOTED OTHERWISE ON PLANS)
- EXISTING CONDUIT TO BE REUSED
- PROPOSED BURIED CABLE
- PROPOSED CABLE IN DUCT

**CABLE AND CONDUIT LEGEND**

- (A)** ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87000775)
- (B)** ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87000885)
- (C)** ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87005275)
- (D)** ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87005385)
- (E)** REMOVE ELECTRIC CABLE FROM CONDUIT (89502300)
- (F)** EXISTING ELECTRIC CABLE TO REMAIN

MODEL: D:\p\h\p\PROJECTS\Projects\2022\22-IL64-09-200-37-W03-L255-at-IL64CAD\_Sheets\0876R00-int-light-03.dgn  
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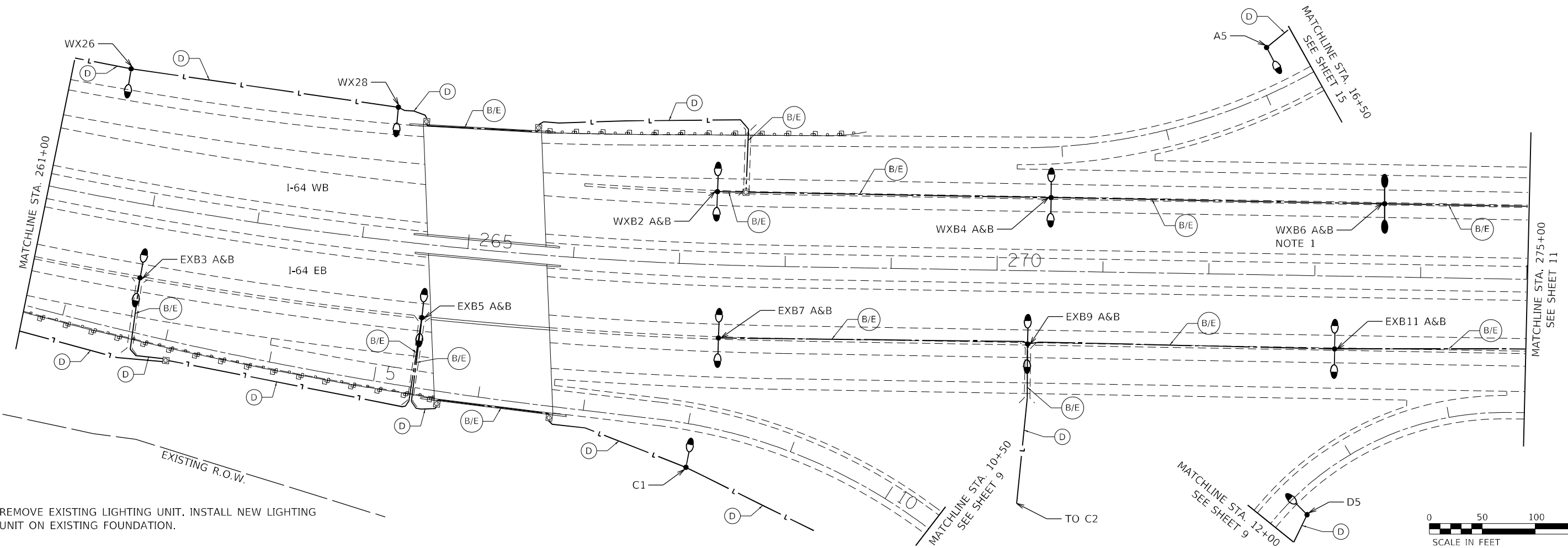
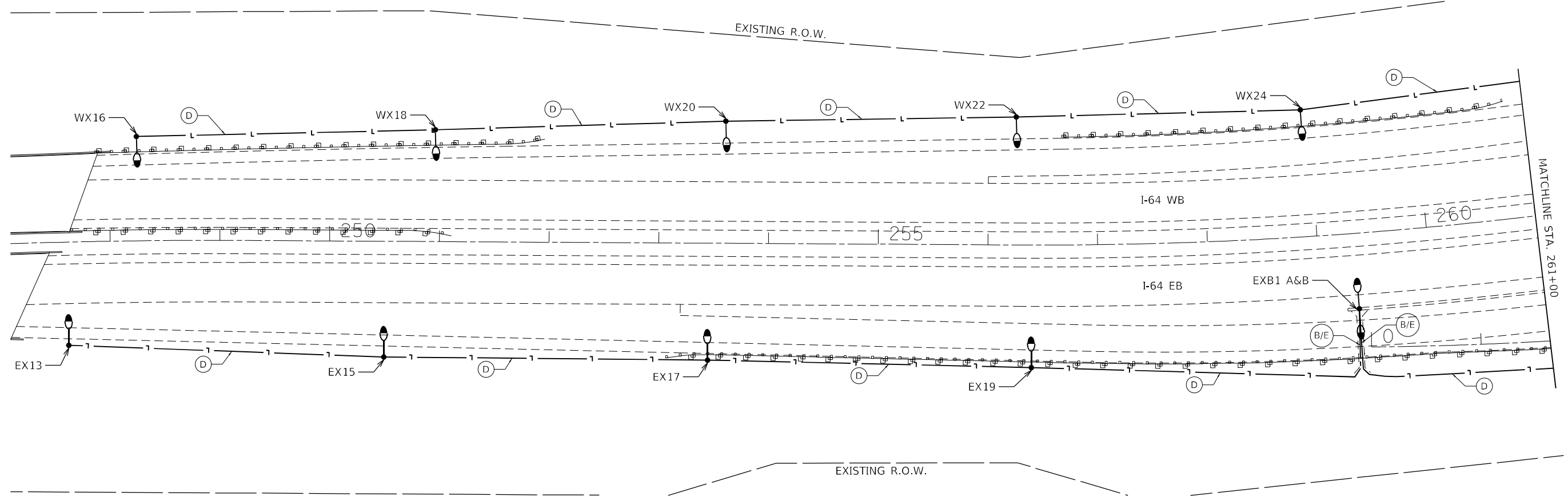
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| PLOT DATE = 3/6/2023        | DATE - 2023-03-03 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

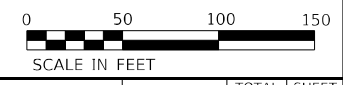
**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50'      STA. 1038+50      TO STA. 1048+50

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 9         |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |



- NOTES:
1. REMOVE EXISTING LIGHTING UNIT. INSTALL NEW LIGHTING UNIT ON EXISTING FOUNDATION.



MODEL: D:\p\h\p\PROJECTS\Projects\2022\22-IL-64-99-200-37-W03-12355.at: IL-64-99-200-37-W03-12355.at: IL-64-99-200-37-W03-12355.at: IL-64-99-200-37-W03-12355.at: IL-64-99-200-37-W03-12355.at



|                             |                   |           |
|-----------------------------|-------------------|-----------|
| USER NAME = brice           | DESIGNED - BR     | REVISED - |
|                             | DRAWN - BR        | REVISED - |
| PLOT SCALE = 100:0.0000 "/> |                   |           |
| PLOT DATE = 3/6/2023        | DATE - 2023-03-03 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING RETROFIT PLAN**

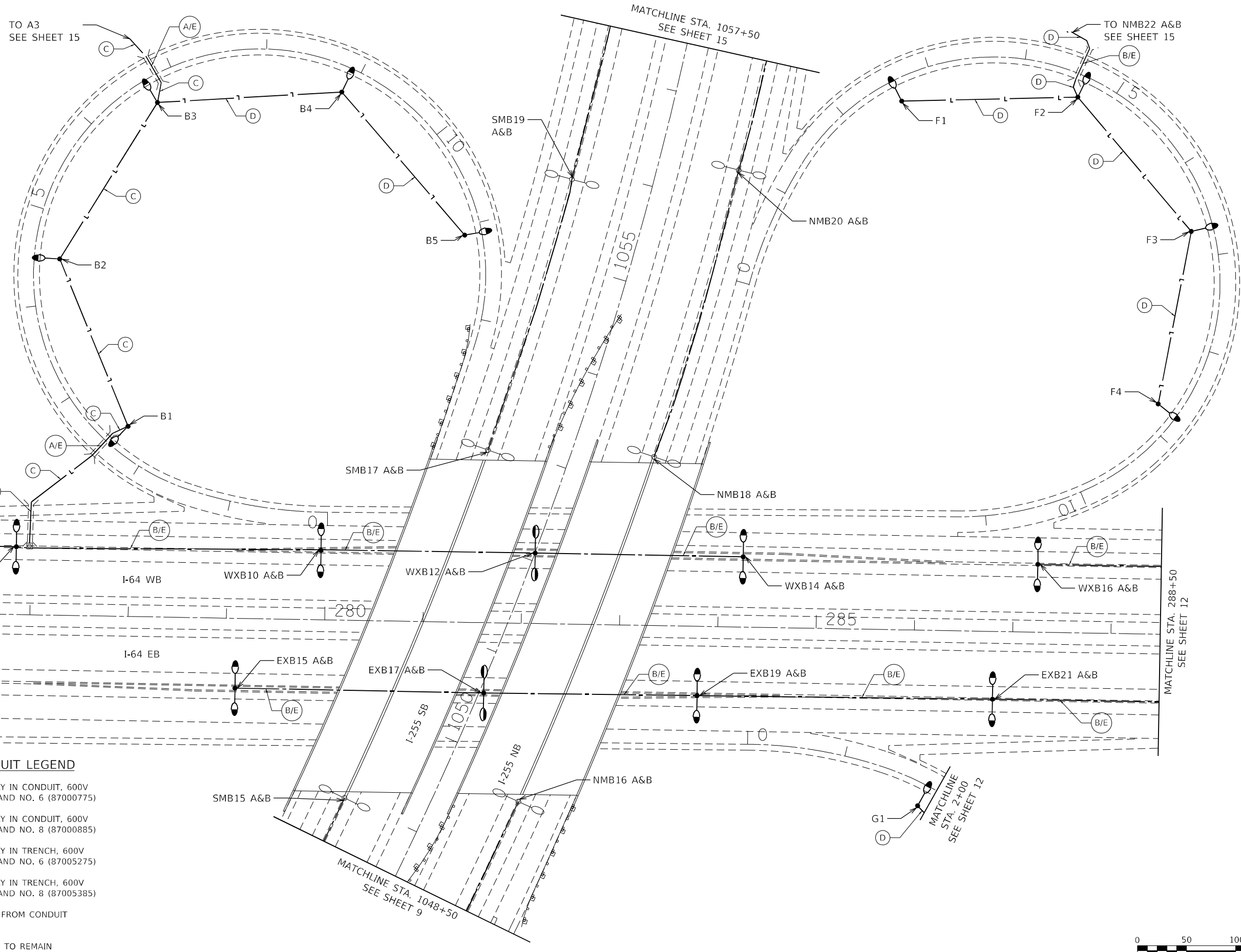
SCALE: 1" = 50'      STA. 247+10      TO STA. 275+00

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
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| 255         | 82-2L-1 | ST. CLAIR | 18           | 10        |

CONTRACT NO. 76R00



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DATE: 2023-03-03



MATCHLINE STA. 275+00  
SEE SHEET 10

MATCHLINE STA. 288+50  
SEE SHEET 12

**CABLE AND CONDUIT LEGEND**

- (A) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87000775)
- (B) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87000885)
- (C) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87005275)
- (D) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87005385)
- (E) REMOVE ELECTRIC CABLE FROM CONDUIT (89502300)
- (F) EXISTING ELECTRIC CABLE TO REMAIN



|                                      |                   |           |
|--------------------------------------|-------------------|-----------|
| USER NAME = brice                    | DESIGNED - BR     | REVISED - |
| PLOT SCALE = 100:0.0000 " = 1" / in. | DRAWN - BR        | REVISED - |
| PLOT DATE = 3/6/2023                 | CHECKED - NT      | REVISED - |
|                                      | DATE - 2023-03-03 | REVISED - |

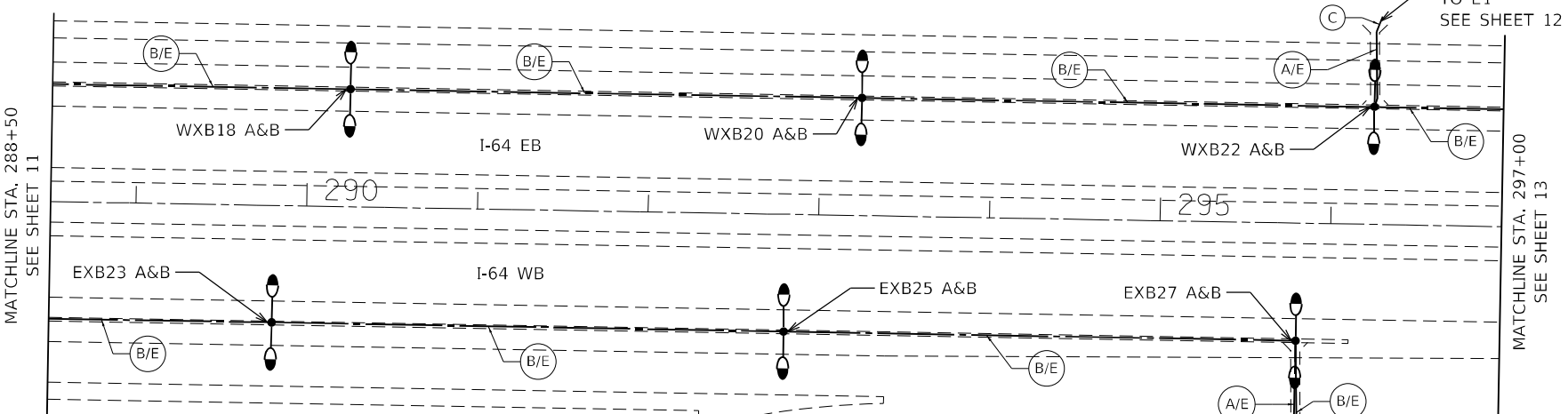
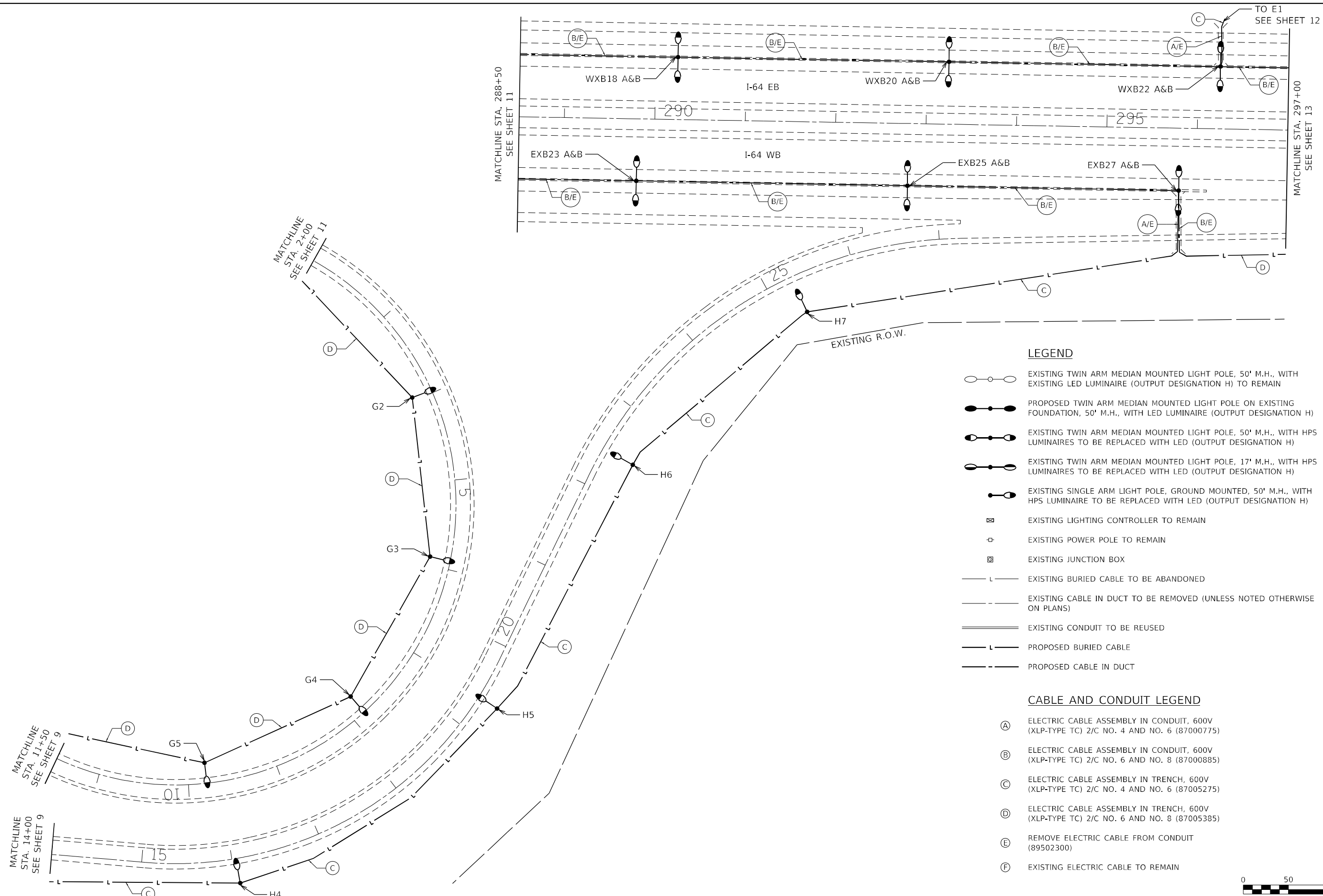
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50' STA. 1048+50 TO STA. 1057+50

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|-------------|---------|-----------|--------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18           | 11        |

CONTRACT NO. 76R00



**LEGEND**

- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH EXISTING LED LUMINAIRE (OUTPUT DESIGNATION H) TO REMAIN
- PROPOSED TWIN ARM MEDIAN MOUNTED LIGHT POLE ON EXISTING FOUNDATION, 50' M.H., WITH LED LUMINAIRE (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 17' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING SINGLE ARM LIGHT POLE, GROUND MOUNTED, 50' M.H., WITH HPS LUMINAIRE TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING LIGHTING CONTROLLER TO REMAIN
- EXISTING POWER POLE TO REMAIN
- EXISTING JUNCTION BOX
- EXISTING BURIED CABLE TO BE ABANDONED
- EXISTING CABLE IN DUCT TO BE REMOVED (UNLESS NOTED OTHERWISE ON PLANS)
- EXISTING CONDUIT TO BE REUSED
- PROPOSED BURIED CABLE
- PROPOSED CABLE IN DUCT

**CABLE AND CONDUIT LEGEND**

- (A) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87000775)
- (B) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87000885)
- (C) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87005275)
- (D) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87005385)
- (E) REMOVE ELECTRIC CABLE FROM CONDUIT (89502300)
- (F) EXISTING ELECTRIC CABLE TO REMAIN



MODEL: Default  
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|                             | DRAWN - BR        | REVISED - |
| PLOT SCALE = 100:0.0000 "/> |                   |           |
| PLOT DATE = 3/6/2023        | DATE - 2023-03-03 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING RETROFIT PLAN**

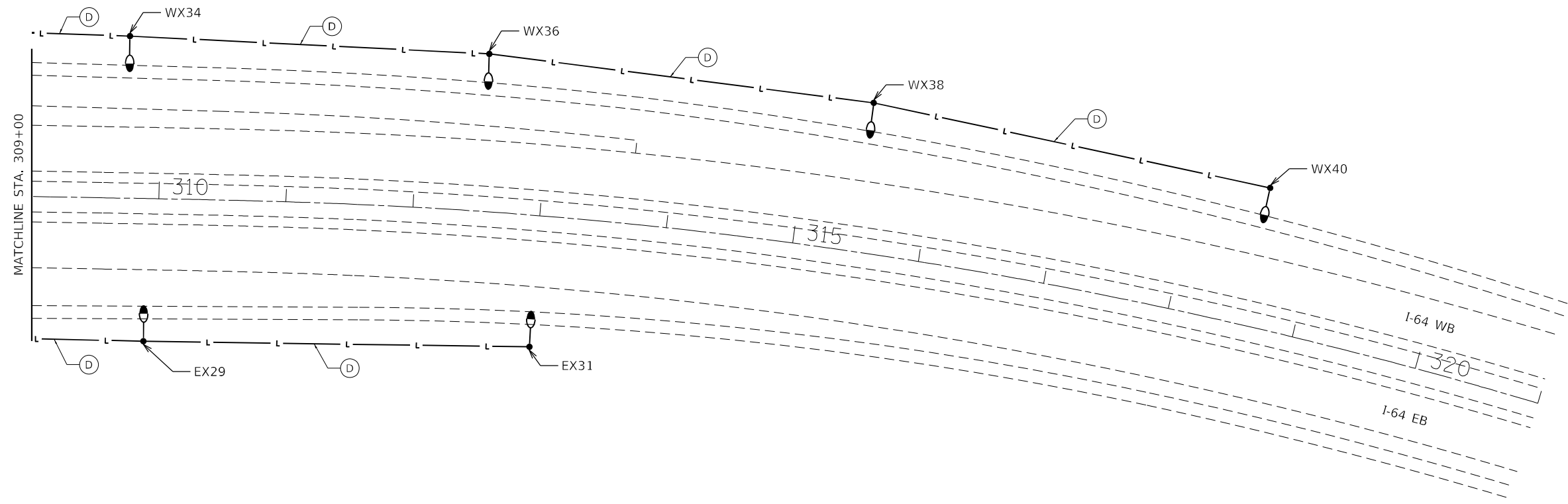
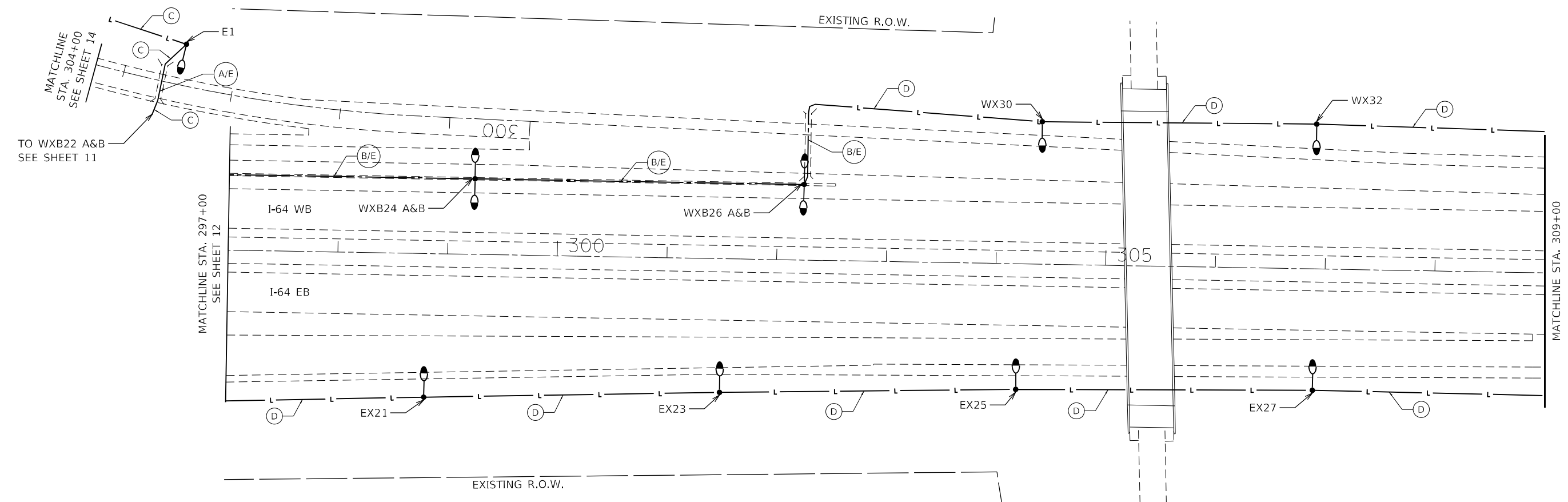
SCALE: 1" = 50'      STA. 288+50      TO STA. 297+00

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|-------------|---------|-----------|--------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18           | 12        |

CONTRACT NO. 76R00

ILLINOIS





MODEL: Default  
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|--------------------------------------|-------------------|-----------|
| USER NAME = brice                    | DESIGNED - BR     | REVISED - |
|                                      | DRAWN - BR        | REVISED - |
| PLOT SCALE = 100:0.0000 " = 1" / in. | CHECKED - NT      | REVISED - |
| PLOT DATE = 3/6/2023                 | DATE - 2023-03-03 | REVISED - |

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

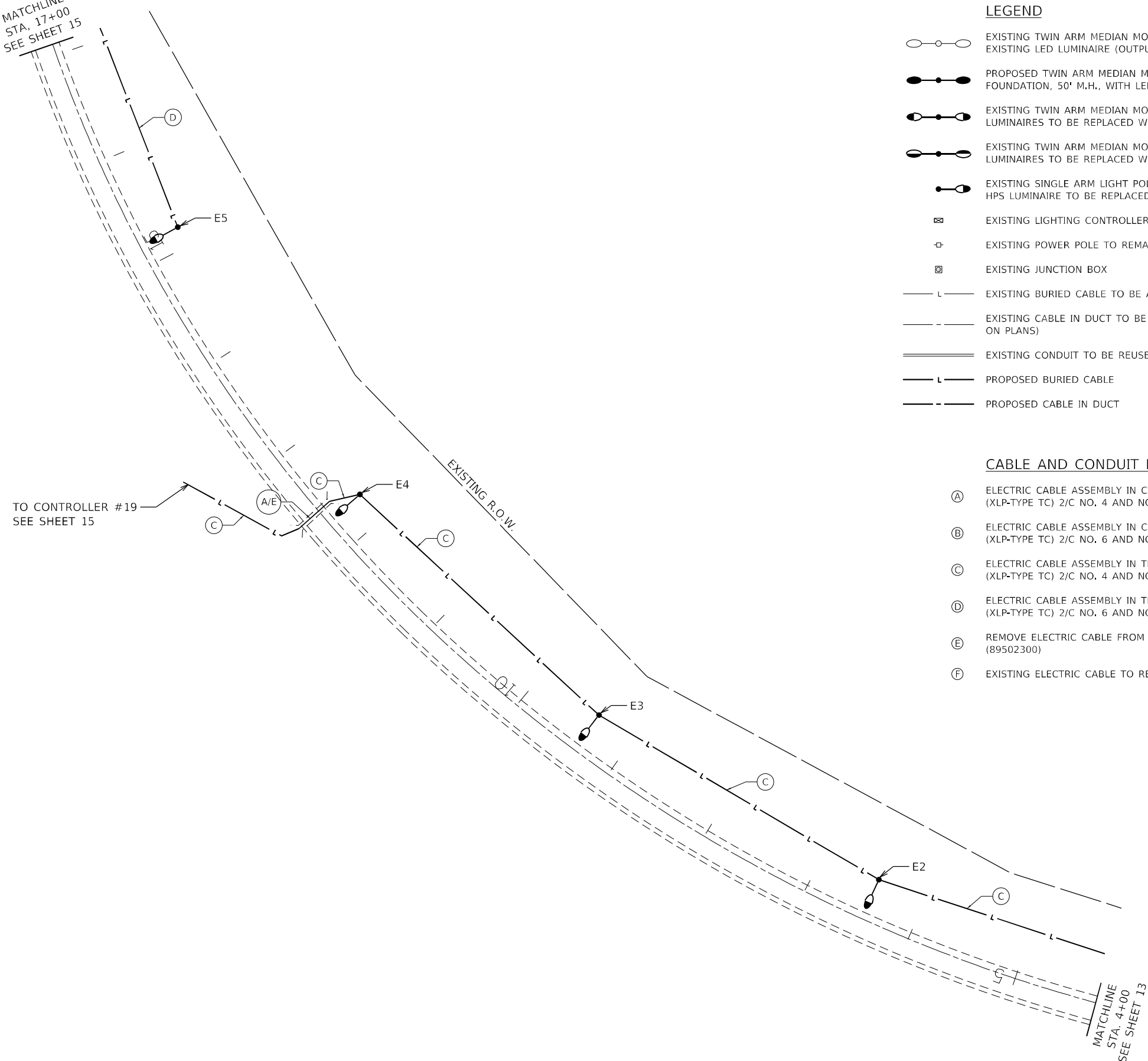
**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50'      STA. 297+00      TO STA. 321+00

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 13        |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |



MATCHLINE  
STA. 17+00  
SEE SHEET 15



**LEGEND**

- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH EXISTING LED LUMINAIRE (OUTPUT DESIGNATION H) TO REMAIN
- PROPOSED TWIN ARM MEDIAN MOUNTED LIGHT POLE ON EXISTING FOUNDATION, 50' M.H., WITH LED LUMINAIRE (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 17' M.H., WITH HPS LUMINAIRES TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING SINGLE ARM LIGHT POLE, GROUND MOUNTED, 50' M.H., WITH HPS LUMINAIRE TO BE REPLACED WITH LED (OUTPUT DESIGNATION H)
- EXISTING LIGHTING CONTROLLER TO REMAIN
- EXISTING POWER POLE TO REMAIN
- EXISTING JUNCTION BOX
- EXISTING BURIED CABLE TO BE ABANDONED
- EXISTING CABLE IN DUCT TO BE REMOVED (UNLESS NOTED OTHERWISE ON PLANS)
- EXISTING CONDUIT TO BE REUSED
- PROPOSED BURIED CABLE
- PROPOSED CABLE IN DUCT

**CABLE AND CONDUIT LEGEND**

- (A) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87000775)
- (B) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87000885)
- (C) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87005275)
- (D) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87005385)
- (E) REMOVE ELECTRIC CABLE FROM CONDUIT (89502300)
- (F) EXISTING ELECTRIC CABLE TO REMAIN



MODEL: Default  
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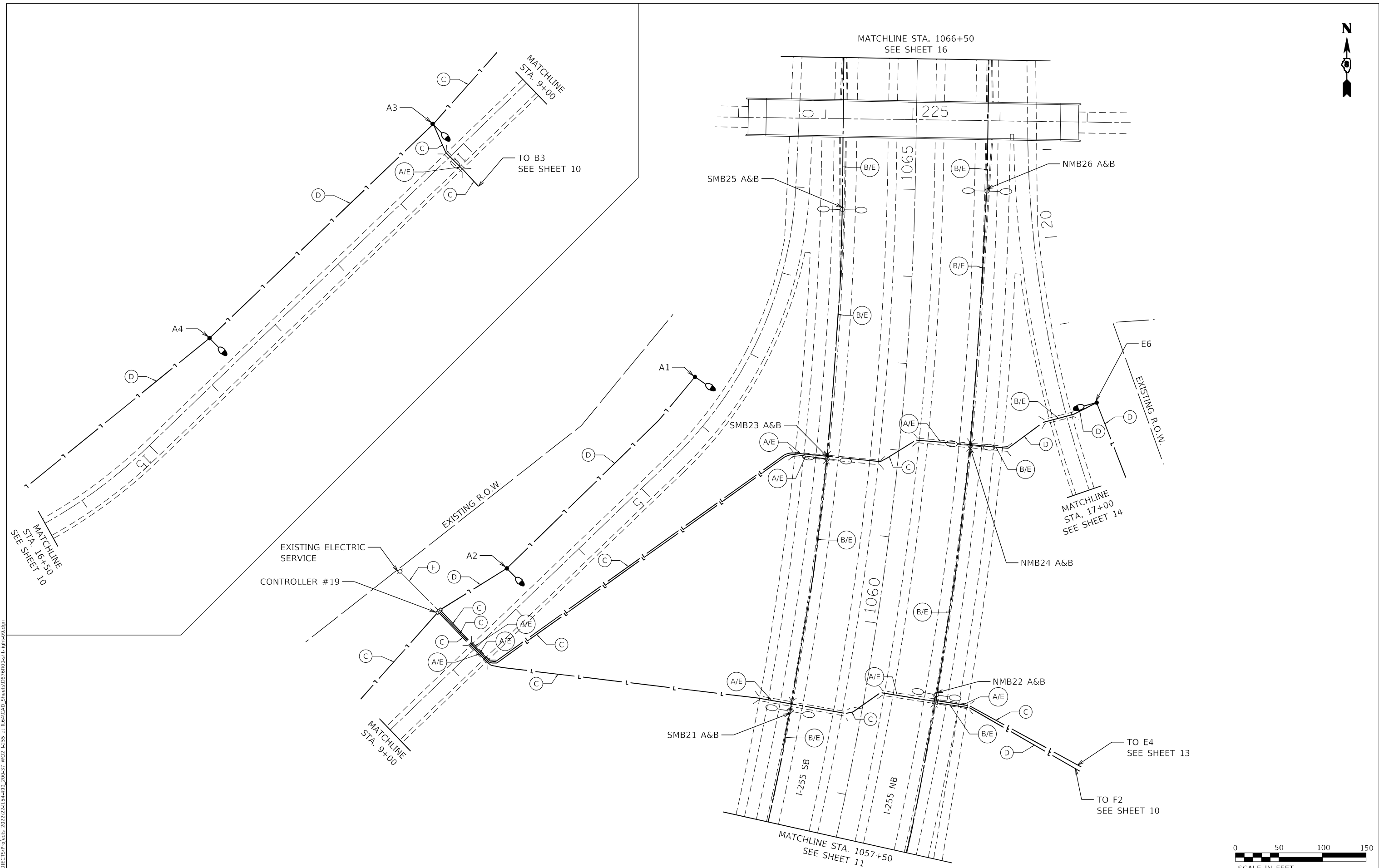
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|                                      | DRAWN - BR        | REVISED - |
| PLOT SCALE = 100:0.0000 " = 1" / in. | CHECKED - NT      | REVISED - |
| PLOT DATE = 4/19/2023                | DATE - 2023-04-19 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50'      STA. 4+00      TO STA. 17+00

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 14        |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |



MODEL: Default  
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**GANDHI AND ASSOCIATES, INC.**  
 ENGINEERS AND PLANNERS  
 6035 N. NORTHWEST HIGHWAY  
 SUITE 206  
 CHICAGO, ILLINOIS 60630 TEL: 773.774.5900

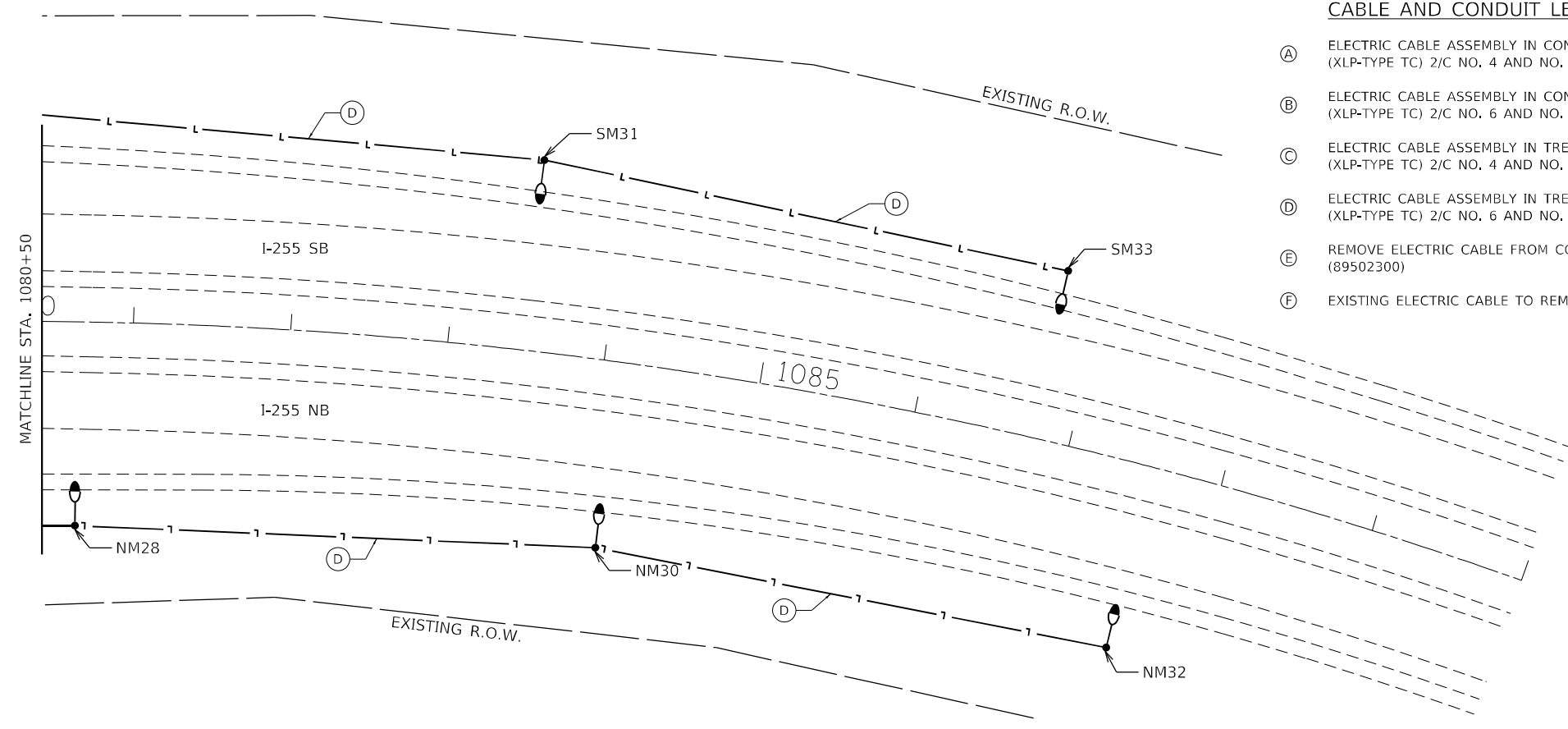
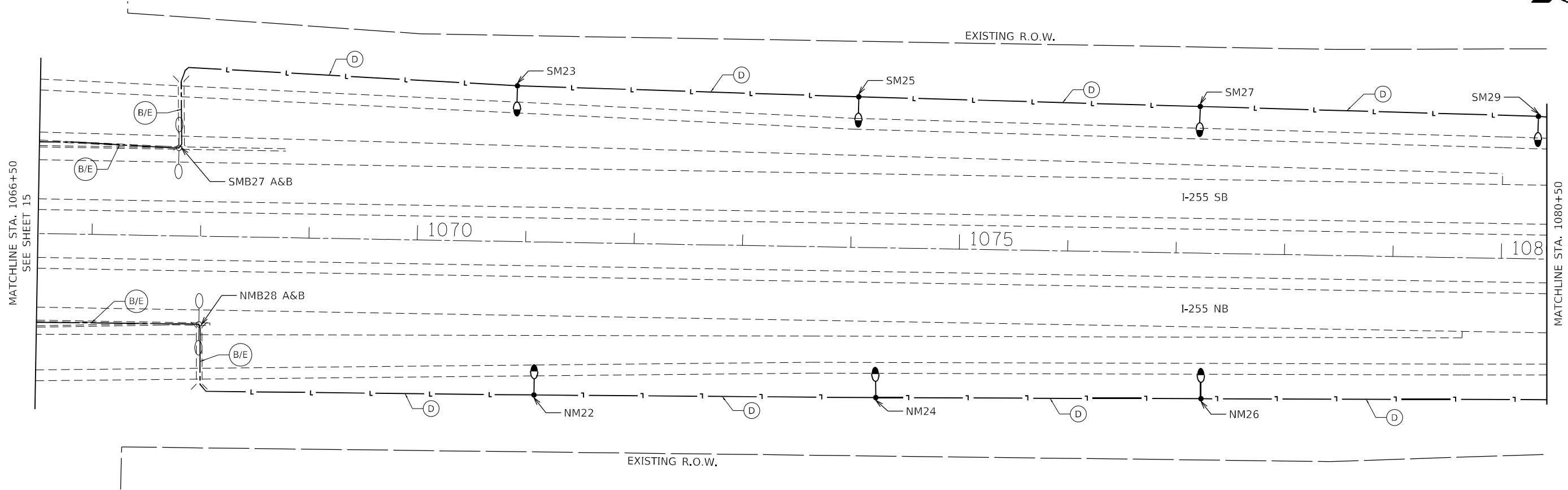
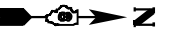
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| USER NAME = brice                    | DESIGNED - BR     | REVISED - |
|                                      | DRAWN - BR        | REVISED - |
| PLOT SCALE = 100:0.0000 " = 1" / in. | CHECKED - NT      | REVISED - |
| PLOT DATE = 4/19/2023                | DATE - 2023-04-19 | REVISED - |

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

**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50'      STA. 1057+50      TO STA. 1066+50

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 15        |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |

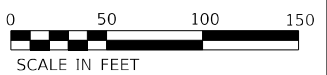


**CABLE AND CONDUIT LEGEND**

- (A) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87000775)
- (B) ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87000885)
- (C) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 (87005275)
- (D) ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 (87005385)
- (E) REMOVE ELECTRIC CABLE FROM CONDUIT (89502300)
- (F) EXISTING ELECTRIC CABLE TO REMAIN

**LEGEND**

- EXISTING TWIN ARM MEDIAN MOUNTED LIGHT POLE, 50' M.H., WITH EXISTING LED LUMINAIRE (OUTPUT DESIGNATION H) TO REMAIN
- PROPOSED TWIN ARM MEDIAN MOUNTED LIGHT POLE ON EXISTING FOUNDATION, 50' M.H., WITH LED LUMINAIRE (OUTPUT DESIGNATION H)
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- EXISTING JUNCTION BOX
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- EXISTING CABLE IN DUCT TO BE REMOVED (UNLESS NOTED OTHERWISE ON PLANS)
- EXISTING CONDUIT TO BE REUSED
- PROPOSED BURIED CABLE
- PROPOSED CABLE IN DUCT



MODEL: Default  
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PROJECT: I-55 SB & NB LIGHTING RETROFIT



|                             |                   |           |
|-----------------------------|-------------------|-----------|
| USER NAME = brice           | DESIGNED - BR     | REVISED - |
|                             | DRAWN - BR        | REVISED - |
| PLOT SCALE = 100:0.0000 "/> |                   |           |
| PLOT DATE = 4/19/2023       | DATE - 2023-04-19 | REVISED - |

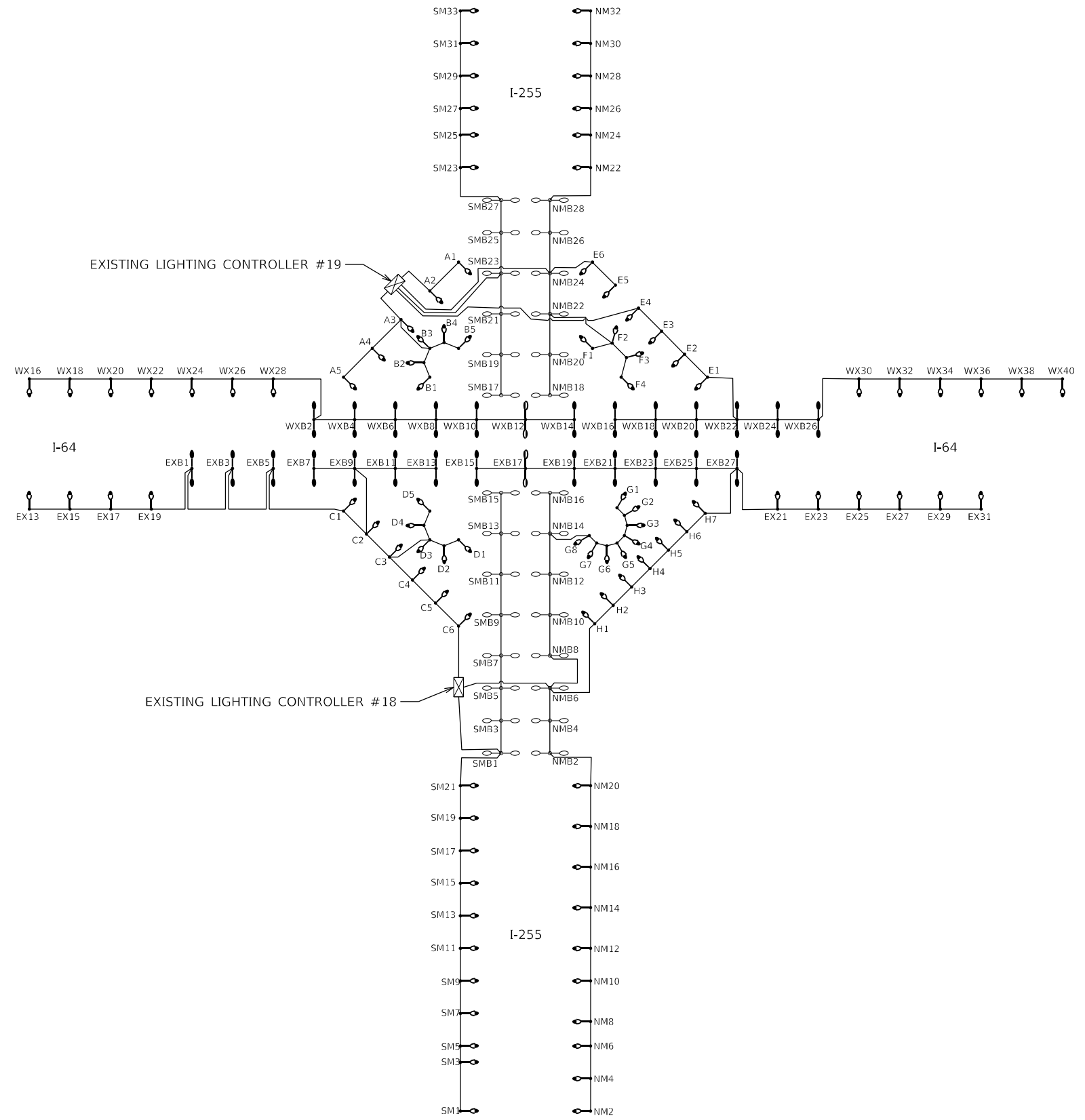
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING RETROFIT PLAN**

SCALE: 1" = 50'      STA. 1066+50      TO STA. 1090+00

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 16        |
|             |         |           | CONTRACT NO. 76R00 |           |
| ILLINOIS    |         |           |                    |           |

MODEL Default  
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**GA** GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 6035 N. NORTHWEST HIGHWAY  
 SUITE 306  
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

|                                    |                   |           |
|------------------------------------|-------------------|-----------|
| USER NAME = brice                  | DESIGNED - BR     | REVISED - |
|                                    | DRAWN - BR        | REVISED - |
| PLOT SCALE = 0:2.0000 " = 1" / in. | CHECKED - NT      | REVISED - |
| PLOT DATE = 4/19/2023              | DATE - 2023-04-19 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE WIRING DIAGRAM**

SCALE: N.T.S.

| F.A.I. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 255         | 82-2L-1 | ST. CLAIR | 18                 | 17        |
| ILLINOIS    |         |           | CONTRACT NO. 76R00 |           |



# Luminaire Performance Table



### Project

|                     |                 |                |           |
|---------------------|-----------------|----------------|-----------|
| Date                | Contract Number | Section Number | County    |
| 12/30/22            | D876R00         | 82-2L-1        | St. Clair |
| Marked Route Number |                 | Municipality   |           |
| 255                 |                 | Caseyville     |           |

### Roadway

|            |            |              |                               |              |
|------------|------------|--------------|-------------------------------|--------------|
| Lane Width | # of Lanes | Median Width | I.E.S. Surface Classification | Q-Zero Value |
| 12         | 3          | 40'          | R3                            | 0.07         |

### Structure

|                 |            |          |   |
|-----------------|------------|----------|---|
| Mounting Height | Arm Length | Set-Back | Number of Luminaires<br>(Highmast & Sign Lighting Only) |
| 50'             | 8'         | 8'       | N/A   |

### Luminaire

|                               |                             |                              |                  |
|-------------------------------|-----------------------------|------------------------------|------------------|
| Description                   | I.E.S. Lateral Distribution | I.E.S. Vertical Distribution |                  |
| Output Type H                 | Type II / Type III          | Short / Medium               |                  |
| Total Light Loss Factor (LLF) | B-U-G Rating                | Shields                      | Dimming Protocol |
| 0.70                          | B3-U0-G3                    | N/A                          | 0-10 V           |

### Layout

|                           |   |
|---------------------------|---|
| Spacing (to Nearest 5 ft) | Configuration (Opposite, Staggered, 1 Sided, or Median) |
| 350'                      | Opposite  |

### Performance

|   |                                     |                                     |  |
|---|-------------------------------------|-------------------------------------|--|
| Average Illuminance, $E_{AVE}$ (fc)               | Uniformity Ratio, $E_{AVE}/E_{MIN}$ |                                     |  |
| 0.9   | 3.0                                 |                                     |  |
| Average Luminance, $L_{AVE}$ (cd/m <sup>2</sup> ) | Uniformity Ratio, $L_{AVE}/L_{MIN}$ | Uniformity Ratio, $L_{MAX}/L_{MIN}$ | Veiling Luminance Ratio, $L_V/L_{AVE}$ |
| 0.6   | 3.0                                 | 6.0                                 | 0.3                                    |

### Light Trespass

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

### Notes

- Set back is from edge of pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
- Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
- Total light loss factor (LLF) = the product of "lumen maintenance" (LLD) = 0.9, "dirt depreciation" (LDD) = 0.8, and "equipment factors" (EF) = 0.95.
- Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire based on the given conditions above.
- Calculations are to be performed in one direction only.
- Compliance with performance criteria shall be held to one significant digit.

Printed 12/28/22

BDE 5630 (04/10/19)

MODEL: Default; FILE NAME: C:\PROJECTS\Projects\_2022\255-2L-1\4-19-2023\103-1-355.at; I:\EACAD\_Sheets\8276R00-2L-1\BDE5630.dgn