

|             |                |          |                    |           |
|-------------|----------------|----------|--------------------|-----------|
| F.A.P. RTE. | SECTION        | COUNTY   | TOTAL SHEETS       | SHEET NO. |
| 0343        | 13-00080-01-LT | COOK     | 23                 | 1         |
|             |                | ILLINOIS | CONTRACT NO. 61D73 |           |

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## PROPOSED HIGHWAY PLANS

### FAP 0343A (IL ROUTE 68) (DUNDEE ROAD) CAMBRIDGE DRIVE TO NORTHGATE PARKWAY

### ROADWAY LIGHTING

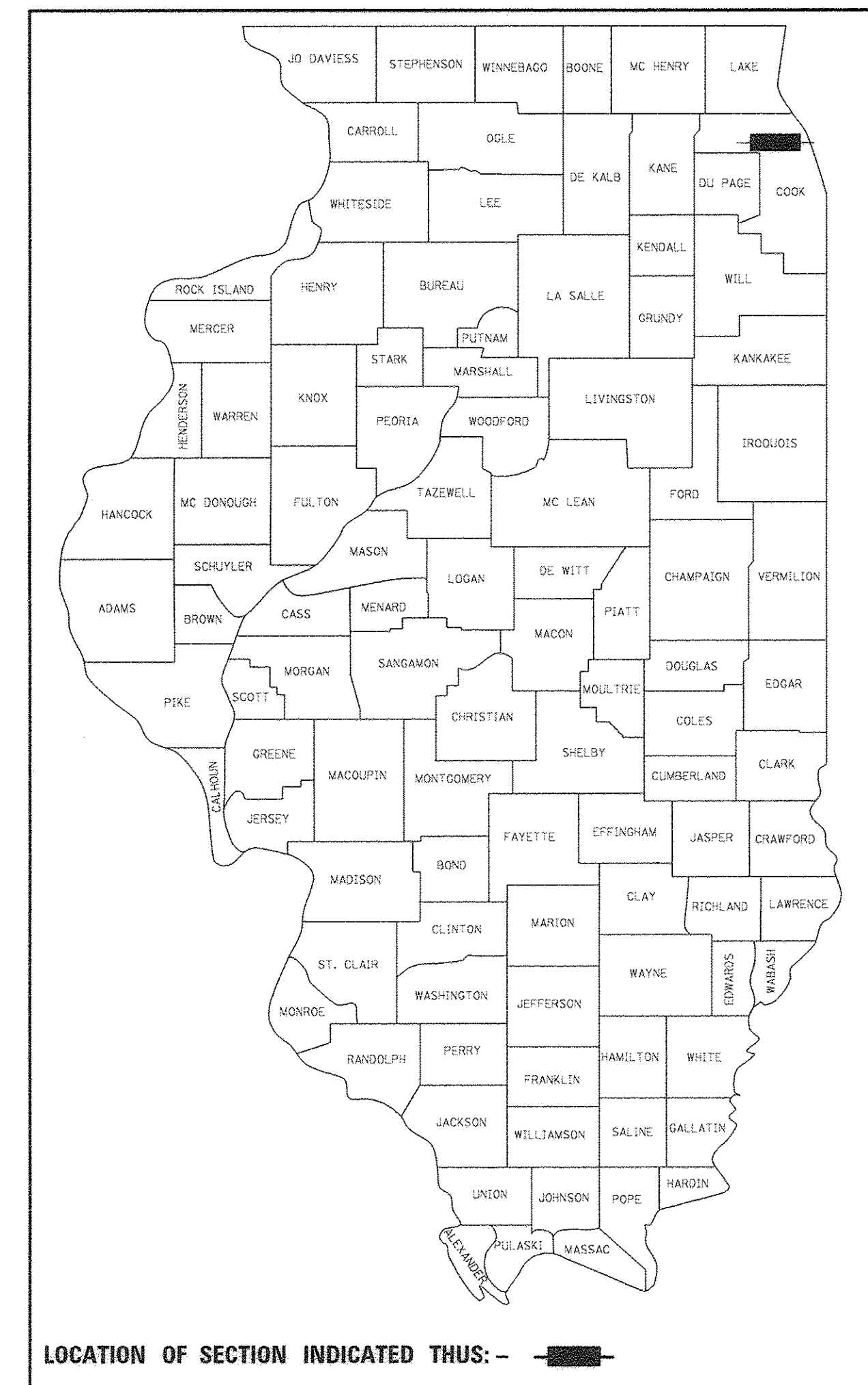
### SECTION 13-00080-01-LT

### PROJECT M-4003(445)

### VILLAGE OF WHEELING

### COOK COUNTY

### C-91-168-15

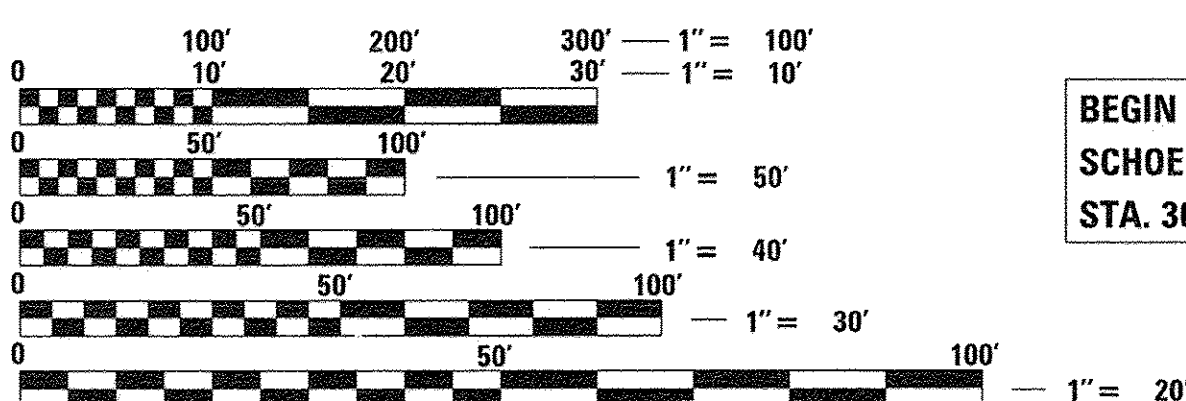
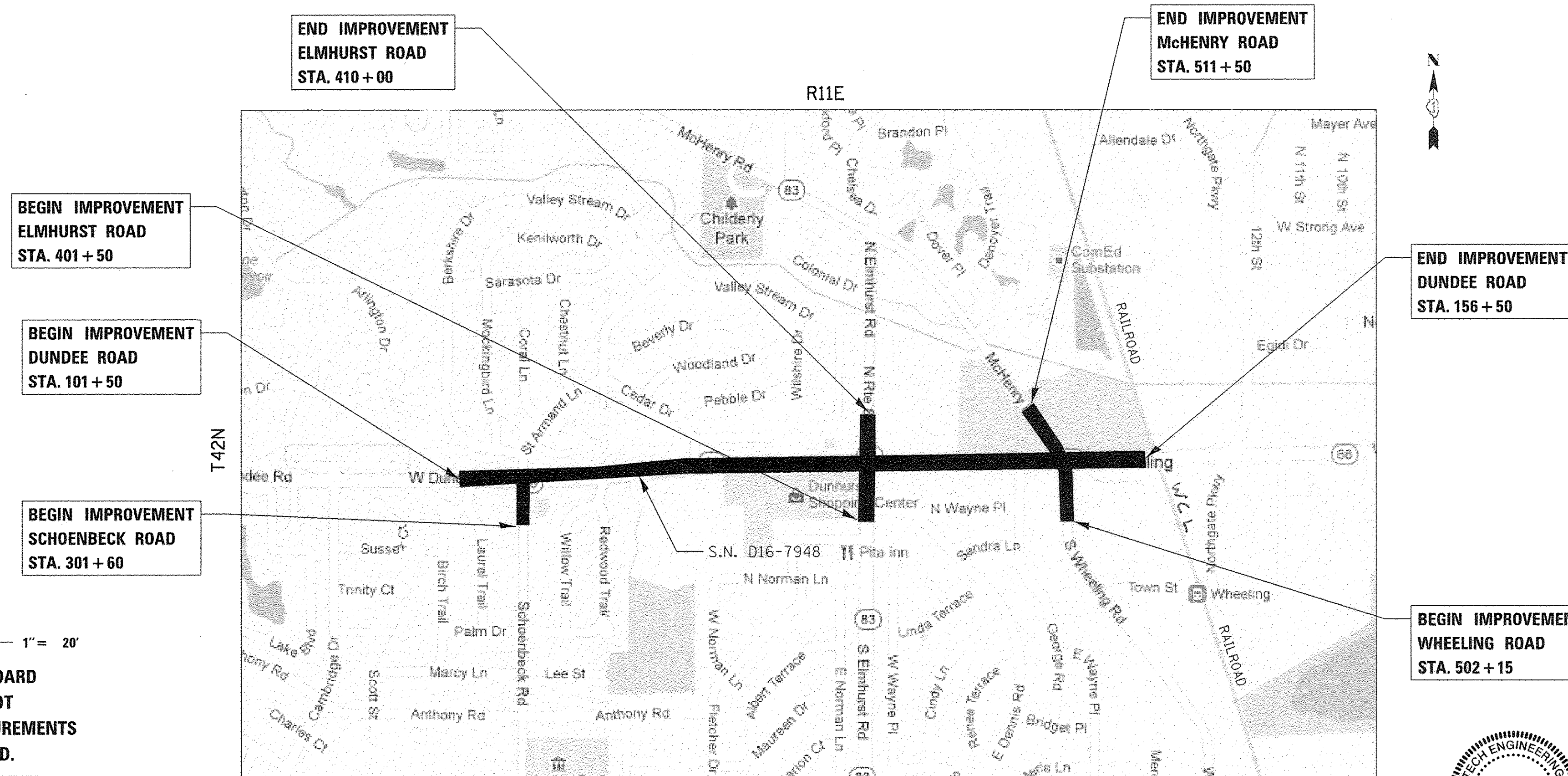


**POSTED SPEED**

- IL ROUTE 68 (DUNDEE ROAD) - 35 MPH POSTED
- SCHOENBECK ROAD (SOUTH LEG) - 35 MPH POSTED
- ELMHURST ROAD (NORTH LEG) - 35 MPH POSTED
- ELMHURST ROAD (SOUTH LEG) - 40 MPH POSTED
- MCHENRY ROAD - 35 MPH POSTED
- WHEELING ROAD - 30 MPH POSTED

**FUNCTIONAL CLASSIFICATION**

- IL ROUTE 68 (DUNDEE ROAD) - OTHER PRINCIPAL ARTERIAL
- SCHOENBECK ROAD - MAJOR COLLECTOR
- ELMHURST ROAD - OTHER PRINCIPAL ARTERIAL
- MCHENRY ROAD - MAJOR COLLECTOR
- WHEELING ROAD - MAJOR COLLECTOR



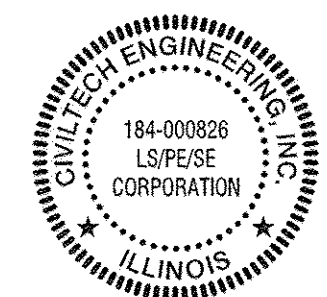
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**PROJECT LENGTH (NET AND GROSS):**  
 IL ROUTE 68 (DUNDEE ROAD) - 5,500.0 FT. (1.042 MILES)  
 SCHOENBECK ROAD - 240.0 FT. (0.045 MILE)  
 ELMHURST ROAD - 850 FT. (0.161 MILE)  
 MCHENRY ROAD /WHEELING ROAD - 950 FT. (0.180 MILE)  
**TOTAL - 7,540.0 FT. (1.428 MILES)**



*Derek N. Mall 1/26/17*  
 REGISTERED P.E., STATE OF ILLINOIS  
 NO. 062-051308; EXPIRES 11-30-2017



PLANS PREPARED BY:



450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143  
 Tel: 630.773.3900 - Fax: 630.773.3975  
 www.civiltechinc.com

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

APPROVED 1-27 2017  
*J. M. [Signature]*  
 VILLAGE ENGINEER

PASSED FEBRUARY 7 2017  
*C. Holt*  
 DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
 BASED ON LIMITED  
 REVIEW February 7 2017  
*Anthony J. [Signature]*  
 REGIONAL ENGINEER

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

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406 SCHALMBURG, IL

**CONTRACT NO. 61D73**



SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION ON APRIL 1, 2016.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS"; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2017; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; AND THE "SPECIAL PROVISIONS AND IDOT STANDARD DRAWINGS" INCLUDED IN THE CONTRACT DOCUMENTS.
- ANY REFERENCE TO "STANDARD" THROUGHOUT THE PLANS, SPECIAL PROVISIONS OR THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE LATEST VERSION OF THAT IDOT STANDARD DRAWING.
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE "STANDARD SPECIFICATIONS".
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER. ALL REFERENCES TO "VILLAGE" SHALL BE INTERPRETED TO MEAN THE VILLAGE OF WHEELING.

MISCELLANEOUS

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER PRIOR TO INSTALLATION OF LIGHTING FOUNDATIONS.
- ANY DAMAGE TO PAVEMENT, SIDEWALK, CURB, OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST AND REPLACEMENT SHALL MEET THE APPROVAL OF THE ENGINEER.
- OFFSET CALL-OFFS ARE FROM THE CENTER OF POLES TO FACE OF CURB (F.O.C.).
- THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT 1-847-705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS CONCERNING MAINTENANCE OF TRAFFIC.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE ANY LIGHT STANDARD IS ERECTED.
- THE INSTALLATION OF BURIED WARNING TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY ENGINEER.

MAINTENANCE OF TRAFFIC

- ALL TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND AS DIRECTED BY THE ENGINEER.
- LANE CLOSURE WILL BE PERMITTED WHILE WORK IS BEING PERFORMED. EASTBOUND LANE CLOSURE ON DUNDEE ROAD WILL NOT BE PERMITTED BEFORE 9:00 A.M. AND WESTBOUND LANE CLOSURE WILL NOT BE PERMITTED AFTER 4:00 P.M., MONDAY THROUGH FRIDAY.

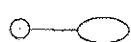
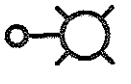
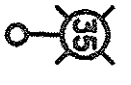
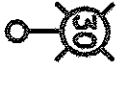

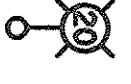



LANDSCAPING

- WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SODDED AREAS PRIOR TO FINAL ACCEPTANCE, AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS.

UTILITIES

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM, IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IN NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE 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 AND THE VILLAGE. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- COORDINATION OF ANY UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER AND CABLE TELEVISION FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT, AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATION OR ADJUSTMENT.

LEGEND

-  EXISTING LIGHTING UNIT
-  PROPOSED LIGHTING UNIT  
LUMINAIRE INSTALLATION, TYPE 1  
274 WATT LED, 240V (PHASE TO PHASE),  
8" HORIZONTAL TENON ARM, 40' MH
-  PROPOSED LIGHTING UNIT  
LUMINAIRE INSTALLATION, TYPE 2  
274 WATT LED, 240V (PHASE TO PHASE),  
FAO MODULE POSITION 4 (82% OF LUMEN)  
8" HORIZONTAL TENON ARM, 35' MH
-  PROPOSED LIGHTING UNIT  
LUMINAIRE INSTALLATION, TYPE 1  
274 WATT LED, 240V (PHASE TO PHASE),  
8" HORIZONTAL TENON ARM, 30' MH
-  PROPOSED LIGHTING UNIT  
LUMINAIRE INSTALLATION, TYPE 1  
LIGHT POLE, SPECIAL, TYPE 2  
274 WATT LED, 240V (PHASE TO PHASE),  
8" HORIZONTAL TENON ARM, 25' MH
-  PROPOSED LIGHTING UNIT  
LUMINAIRE INSTALLATION, TYPE 1  
LIGHT POLE, SPECIAL, 20 FT. M.H.  
274 WATT LED, 240V (PHASE TO PHASE),  
8" HORIZONTAL TENON ARM, 20' MH
-  PROPOSED LIGHTING UNIT  
LUMINAIRE INSTALLATION, TYPE 3  
274 WATT LED, 240V (PHASE TO PHASE),  
FAO MODULE POSITION 2 (58% OF LUMEN)  
8" HORIZONTAL TENON ARM, 35' MH
-  PROPOSED LIGHTING CONTROLLER  
BASE MOUNTED, 240 VOLT, 200 AMP
-  PROPOSED UNIT DUCT (SIZE AND TYPE AS SPECIFIED IN PLANS)
-  UNDERGROUND CONDUIT, GALVANIZED STEEL (SIZE AS SPECIFIED)
-  SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION                     |
|-----------|---------------------------------|
| 1         | COVER SHEET AND STATE STANDARDS |
| 2         | GENERAL NOTES AND LEGEND        |
| 3 - 4     | SUMMARY OF QUANTITIES           |
| 5 - 14    | LIGHTING PLANS                  |
| 15 - 16   | LIGHTING WIRING DIAGRAM         |
| 17 - 23   | LIGHTING DETAILS                |

DISTRICT DETAILS

- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS
- TC-22 ARTERIAL ROAD INFORMATION SIGN

IDOT STANDARDS

- 424026-01 ENTRANCE /ALLEY PEDESTRIAN CROSSINGS
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-05 OFF-RD OPERATIONS MULTI-LANE, 15' TO 24" FROM EDGE OF PAVEMENT
- 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
- 701502-07 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-06 TRAFFIC CONTROL DEVICES

PLOT DRIVER = #PLTDVLS  
 PEN TABLE = #PENTBLLS  
 FILE NAME = ..\2674-02 Notes-Logmnd.dgn



|                              |                  |           |
|------------------------------|------------------|-----------|
| USER NAME = sjc              | DESIGNED - SJC   | REVISED - |
|                              | DRAWN - SJC      | REVISED - |
| PLOT SCALE = 20.0000' / 1in. | CHECKED - DNM    | REVISED - |
| PLOT DATE = 1/30/2017        | DATE - 1/30/2017 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

VILLAGE OF WHEELING  
GENERAL NOTES AND LEGEND

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

| F.A.P. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO.          |
|---------------------------|----------------|--------|--------------|--------------------|
| 343                       | 13-00080-01-LT | COOK   | 23           | 2                  |
|                           |                |        |              | CONTRACT NO. 61D73 |
| ILLINOIS FED. AID PROJECT |                |        |              |                    |

SUMMARY OF QUANTITIES

| CODE NO.   | ITEM   | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE            |   |          |
|------------|--|-------|----------------|------------------------------|---|----------|
|            |  |       |                | 0021                         | 0031  | 0042     |
|            |  |       |                | SAFETY (LIGHTING, SIDEWALKS) | LANDSCAPING AND OTHER SCENIC BEAUTIFICATION | TRAINEES |
| 21101615   | TOPSOIL FURNISH AND PLACE, 4"                                | SO YD | 1156           |                              | 1156  |          |
| 25000400   | NITROGEN FERTILIZER NUTRIENT                                 | POUND | 15             |                              | 15  |          |
| 25000500   | PHOSPHORUS FERTILIZER NUTRIENT                               | POUND | 15             |                              | 15  |          |
| 25000600   | POTASSIUM FERTILIZER NUTRIENT                                | POUND | 15             |                              | 15  |          |
| 25200110   | SODDING, SALT TOLERANT                                       | SO YD | 1156           |                              | 1156  |          |
| 25200200   | SUPPLEMENTAL WATERING  | UNIT  | 18             |                              | 18  |          |
| * 42001300 | PROTECTIVE COAT  | SO YD | 140            | 140                          |   |          |
| * 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH                     | SO FT | 1217           | 1217                         |   |          |
| * 42400800 | DETECTABLE WARNINGS  | SO FT | 40             | 40                           |   |          |
| * 44000600 | SIDEWALK REMOVAL   | SO FT | 1217           | 1217                         |   |          |
| 67100100   | MOBILIZATION   | LSUM  | 1              | 1                            |   |          |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL                                   | CU YD | 115            | 115                          |   |          |
| * 66900450 | SPECIAL WASTE PLANS AND REPORTS                              | LSUM  | 1              | 1                            |   |          |
| * 66900530 | SOIL DISPOSAL ANALYSIS                                       | EACH  | 6              | 6                            |   |          |
| 70102620   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501              | LSUM  | 1              | 1                            |   |          |
| 70102622   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701502              | LSUM  | 1              | 1                            |   |          |
| 70102625   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701606              | LSUM  | 1              | 1                            |   |          |
| 70102635   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701              | LSUM  | 1              | 1                            |   |          |
| 70102640   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801              | LSUM  | 1              | 1                            |   |          |
| 80400100   | ELECTRIC SERVICE INSTALLATION                                | EACH  | 2              | 2                            |   |          |
| 80400200   | ELECTRIC UTILITY SERVICE CONNECTION                          | LSUM  | 1              | 1                            |   |          |
| 81028210   | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.           | FOOT  | 145            | 145                          |   |          |
| 81028230   | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.           | FOOT  | 3885           | 3885                         |   |          |
| 81702460   | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0 | FOOT  | 165            | 165                          |   |          |
| 82500370   | LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP           | EACH  | 2              | 2                            |   |          |
| 83012100   | LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT               | EACH  | 3              | 3                            |   |          |

\* SPECIALTY ITEM

PLOT DRIVER = \$PLTDRVL\$  
PEN TABLE = \$PENTBL\$  
FILE NAME = ...2874\_023\_500.dgn



USER NAME = sje  
DESIGNED - SJC  
DRAWN - SJC  
CHECKED - DNM  
DATE - 1/30/2017  
PLOT SCALE = 20.0000' / 1" = 200  
PLOT DATE = 1/30/2017

REVISD -  
REVISD -  
REVISD -  
REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

|                    |                |        |                           |           |
|--------------------|----------------|--------|---------------------------|-----------|
| F.A.P. RTE.        | SECTION        | COUNTY | TOTAL SHEETS              | SHEET NO. |
| 343                | 13-00080-01-LT | COOK   | 23                        | 3         |
| CONTRACT NO. 61D73 |                |        | ILLINOIS FED. AID PROJECT |           |



SUMMARY OF QUANTITIES

| CODE NO.   | ITEM   | UNIT   | TOTAL QUANTITY | CONSTRUCTION CODE            |   |          |
|------------|--|--------|----------------|------------------------------|---|----------|
|            |  |        |                | 0021                         | 0031  | 0042     |
|            |  |        |                | SAFETY (LIGHTING, SIDEWALKS) | LANDSCAPING AND OTHER SCENIC BEAUTIFICATION | TRAINEES |
| 83012200   | LIGHT POLE, ALUMINUM, 35 FT. M.H., TENON MOUNT   | EACH   | 38             | 38                           |   |          |
| 83012300   | LIGHT POLE, ALUMINUM, 40 FT. M.H., TENON MOUNT   | EACH   | 50             | 50                           |   |          |
| 83600200   | LIGHT POLE FOUNDATION, 24" DIAMETER  | FOOT   | 550            | 550                          |   |          |
| X2130010   | EXPLORATION TRENCH, SPECIAL  | FOOT   | 250            | 250                          |   |          |
| X7015005   | CHANGEABLE MESSAGE SIGN  | CAL DA | 60             | 60                           |   |          |
| X8162640   | UNIT DUCT, 600V, 3-1C NO.2, 2-1C NO.6, 1/C NO.2 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE | FOOT   | 15988          | 15988                        |   |          |
| X8360215   | LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET  | FOOT   | 456            | 456                          |   |          |
| X8380075   | BREAKAWAY DEVICE, TRANSFORMER BASE, SPECIAL  | EACH   | 93             | 93                           |   |          |
| Z0030850   | TEMPORARY INFORMATION SIGNING  | SQ FT  | 309            | 309                          |   |          |
| Z0033028   | MAINTENANCE OF LIGHTING SYSTEM   | CAL MO | 5              | 5                            |   |          |
| Z0048665   | RAILROAD PROTECTIVE LIABILITY INSURANCE  | LSUM   | 1              | 1                            |   |          |
| Z0076600   | TRAINEES   | HOUR   | 500            |                              |   | 500      |
| Z0076604   | TRAINEES TRAINING PROGRAM GRADUATE   | HOUR   | 500            |                              |   | 500      |
| * XX006851 | PAVEMENT RESTORATION   | SQ YD  | 5              | 5                            |   |          |
| XX008068   | LUMINAIRE INSTALLATION, TYPE 1   | EACH   | 55             | 55                           |   |          |
| XX008069   | LUMINAIRE INSTALLATION, TYPE 2   | EACH   | 36             | 36                           |   |          |
| XX009135   | LIGHT POLE, ALUMINUM, SPECIAL, TYPE 2  | EACH   | 1              | 1                            |   |          |
| XX009144   | LIGHT POLE, SPECIAL, 20 FT. M.H.   | EACH   | 1              | 1                            |   |          |
| XX009148   | LUMINAIRE INSTALLATION, TYPE 3   | EACH   | 2              | 2                            |   |          |

\* SPECIALTY ITEM

PLOT DRIVER = #PLTDV1L\$  
PEN TABLE = #PEN1BL\$  
FILE NAME = ...X2874.DWG 500.dgn



USER NAME = sje  
PLOT SCALE = 20.0000' / 1"  
PLOT DATE = 1/30/2017

DESIGNED - SJC  
DRAWN - SJC  
CHECKED - DNM  
DATE - 1/30/2017

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

|                    |                |        |                           |           |
|--------------------|----------------|--------|---------------------------|-----------|
| F.A.P. RTE.        | SECTION        | COUNTY | TOTAL SHEETS              | SHEET NO. |
| 343                | 13-00080-01-LT | COOK   | 23                        | 4         |
| CONTRACT NO. 61D73 |                |        | ILLINOIS FED. AID PROJECT |           |

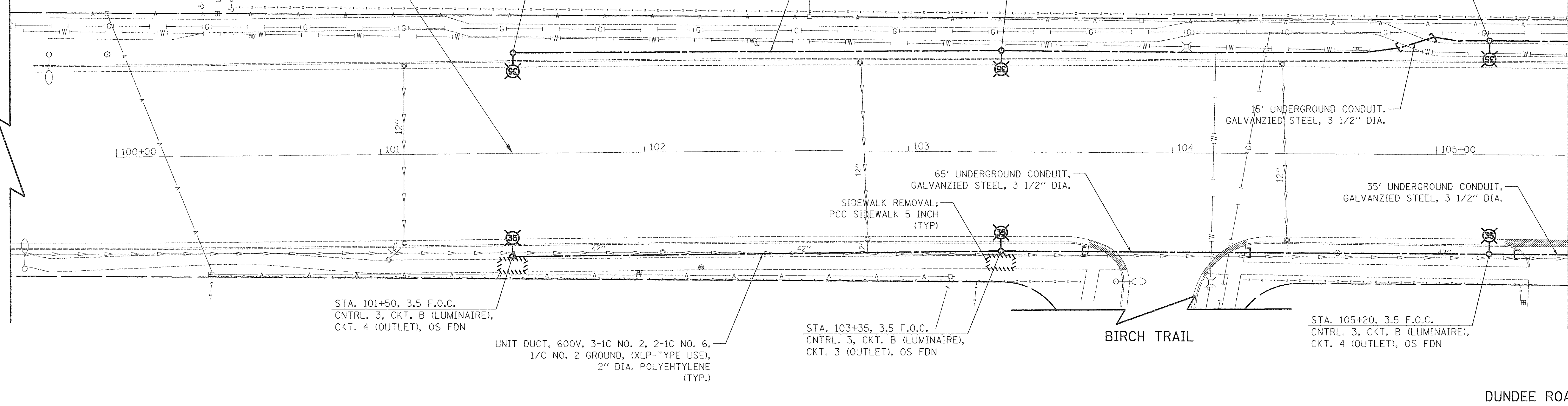
**BEGIN IMPROVEMENT  
DUNDEE ROAD  
STA. 101+50**

STA. 101+50, 3.5 F.O.C.  
CNTRL. 3, CKT. A (LUMINAIRE),  
CKT. 1 (OUTLET), 24" FDN

UNIT DUCT, 600V, 3-1C NO. 2, 2-1C NO. 6,  
1/C NO. 2 GROUND, (XLP-TYPE USE),  
2" DIA. POLYEHTYLENE  
(TYP.)

STA. 103+35, 3.5 F.O.C.  
CNTRL. 3, CKT. A (LUMINAIRE),  
CKT. 2 (OUTLET), 24" FDN

STA. 105+20, 3.5 F.O.C.  
CNTRL. 3, CKT. A (LUMINAIRE),  
CKT. 1 (OUTLET), 24" FDN



STA. 101+50, 3.5 F.O.C.  
CNTRL. 3, CKT. B (LUMINAIRE),  
CKT. 4 (OUTLET), OS FDN

UNIT DUCT, 600V, 3-1C NO. 2, 2-1C NO. 6,  
1/C NO. 2 GROUND, (XLP-TYPE USE),  
2" DIA. POLYEHTYLENE  
(TYP.)

STA. 103+35, 3.5 F.O.C.  
CNTRL. 3, CKT. B (LUMINAIRE),  
CKT. 3 (OUTLET), OS FDN

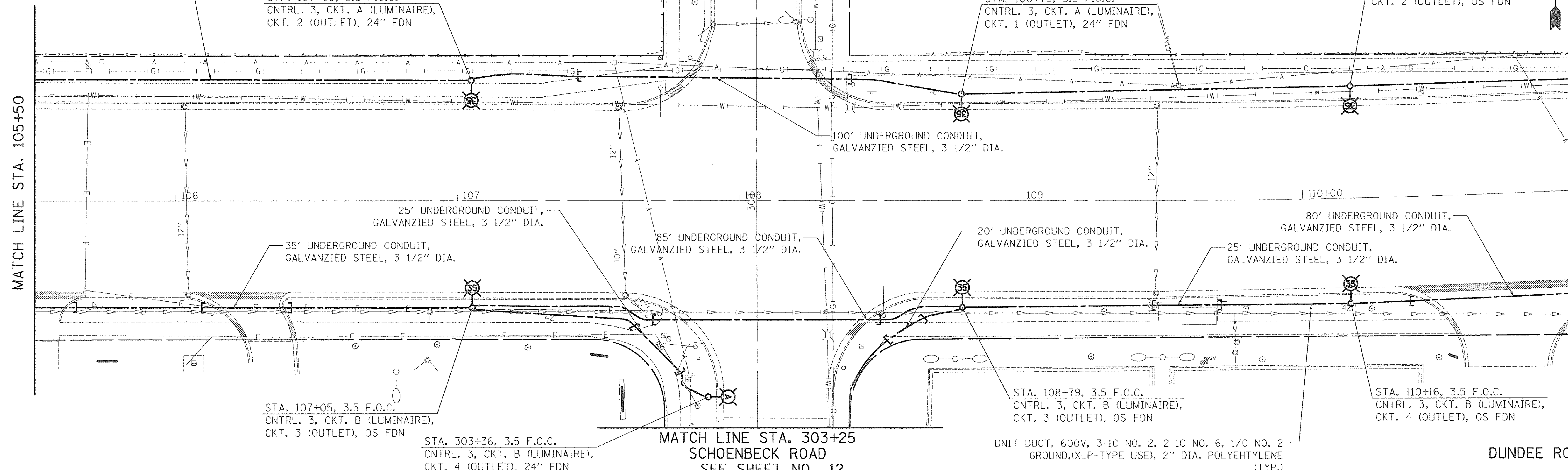
STA. 105+20, 3.5 F.O.C.  
CNTRL. 3, CKT. B (LUMINAIRE),  
CKT. 4 (OUTLET), OS FDN

UNIT DUCT, 600V, 3-1C NO. 2, 2-1C NO. 6,  
1/C NO. 2 GROUND, (XLP-TYPE USE),  
2" DIA. POLYEHTYLENE  
(TYP.)

STA. 107+05, 3.5 F.O.C.  
CNTRL. 3, CKT. A (LUMINAIRE),  
CKT. 2 (OUTLET), 24" FDN

STA. 108+79, 3.5 F.O.C.  
CNTRL. 3, CKT. A (LUMINAIRE),  
CKT. 1 (OUTLET), 24" FDN

STA. 110+18, 5.0 F.O.C.  
CNTRL. 3, CKT. A (LUMINAIRE),  
CKT. 2 (OUTLET), OS FDN



STA. 107+05, 3.5 F.O.C.  
CNTRL. 3, CKT. B (LUMINAIRE),  
CKT. 3 (OUTLET), OS FDN

STA. 303+36, 3.5 F.O.C.  
CNTRL. 3, CKT. B (LUMINAIRE),  
CKT. 4 (OUTLET), 24" FDN

MATCH LINE STA. 303+25  
SCHOENBECK ROAD  
SEE SHEET NO. 12

STA. 108+79, 3.5 F.O.C.  
CNTRL. 3, CKT. B (LUMINAIRE),  
CKT. 3 (OUTLET), OS FDN

UNIT DUCT, 600V, 3-1C NO. 2, 2-1C NO. 6,  
1/C NO. 2 GROUND, (XLP-TYPE USE), 2" DIA. POLYEHTYLENE  
(TYP.)

STA. 110+16, 3.5 F.O.C.  
CNTRL. 3, CKT. B (LUMINAIRE),  
CKT. 4 (OUTLET), OS FDN

PLOT DRIVER = \$PLTDVLS\$  
PEN TABLE = \$PENTBL\$  
FILE NAME = ...2674.dwg



|                              |                  |           |
|------------------------------|------------------|-----------|
| USER NAME = sjc              | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20,000.0' / in. | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017        | CHECKED - DNM    | REVISED - |
|                              | DATE - 1/30/2017 | REVISED - |

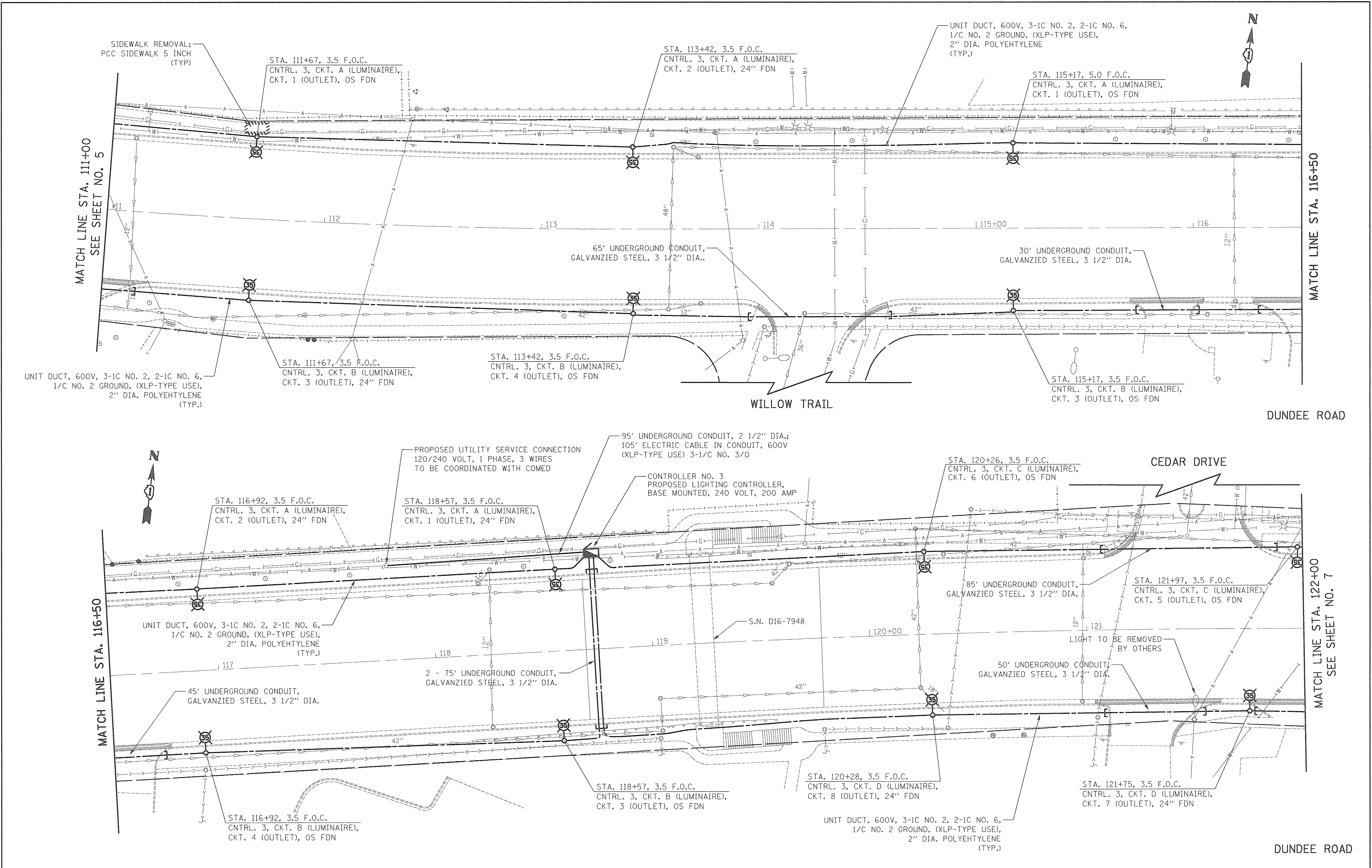
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
LIGHTING PLAN**

SCALE: 1" = 20' SHEET 1 OF 10 SHEETS STA. 100+00 TO STA. 111+00

|                    |                        |             |                 |                           |
|--------------------|------------------------|-------------|-----------------|---------------------------|
| F.A.P. RTE. 343    | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 5               |
| CONTRACT NO. 61D73 |                        |             |                 | ILLINOIS FED. AID PROJECT |





PLOT DRIVER = SPLIDRVLS  
 PEN TABLE = 8PENTBL16  
 FILE NAME = ...2674.dwg



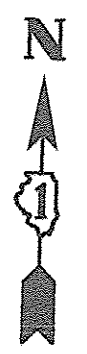
|                            |                  |           |
|----------------------------|------------------|-----------|
| USER NAME = sjo            | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20.0000' / 1" | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017      | CHECKED - DNM    | REVISED - |
|                            | DATE - 1/30/2017 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
 LIGHTING PLAN**

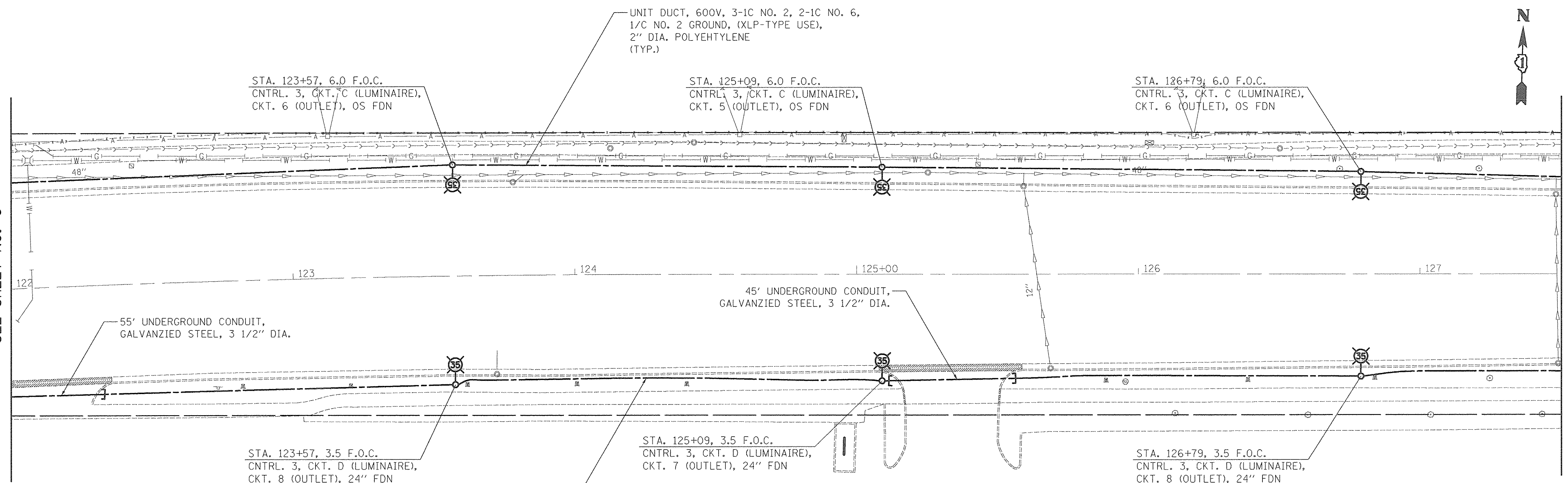
SCALE: 1" = 20' SHEET 2 OF 10 SHEETS STA. 111+00 TO STA. 122+00

|                           |                        |             |                 |             |
|---------------------------|------------------------|-------------|-----------------|-------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 6 |
| CONTRACT NO. 61D73        |                        |             |                 |             |
| ILLINOIS FED. AID PROJECT |                        |             |                 |             |



MATCH LINE STA. 122+00  
SEE SHEET NO. 6

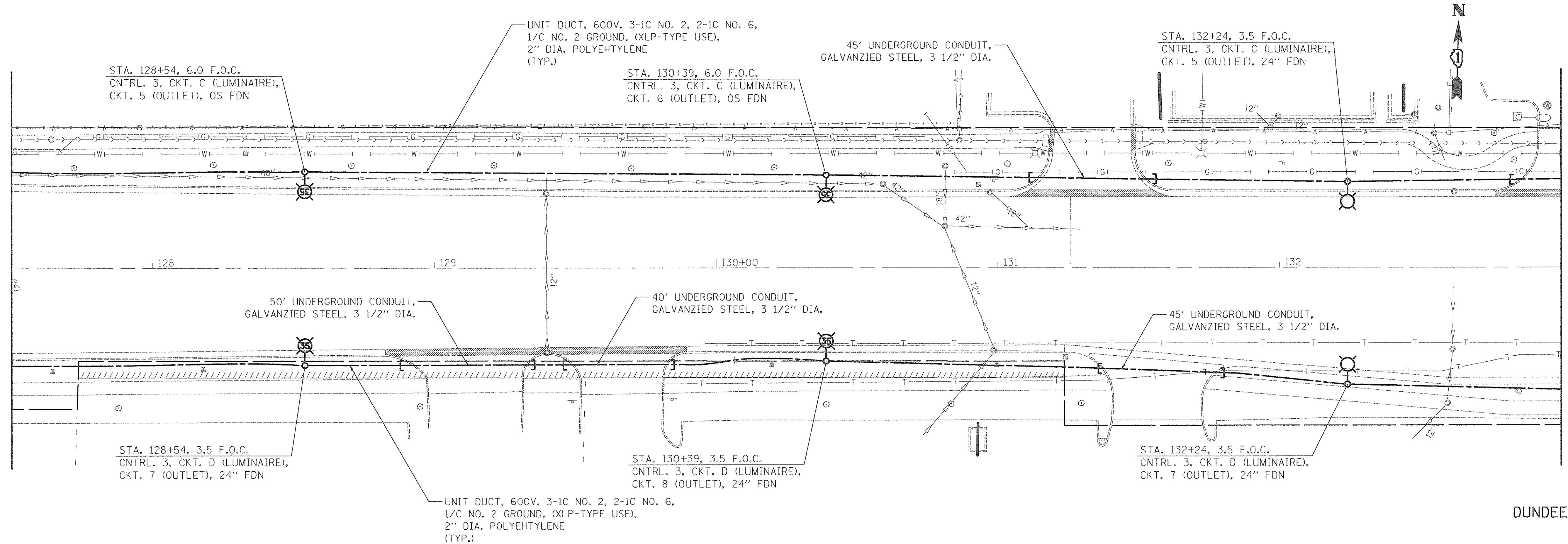
MATCH LINE STA. 127+50



DUNDEE ROAD

MATCH LINE STA. 127+50

MATCH LINE STA. 133+00  
SEE SHEET NO. 8



DUNDEE ROAD

PLOT DRIVER = \$PLTDVLS\$  
PEN TABLE = \$PENIBLL\$  
FILE NAME = ..\2874-07\_L1.dgn



|                             |                  |           |
|-----------------------------|------------------|-----------|
| USER NAME = sjc             | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20.0000' / in. | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017       | CHECKED - DNM    | REVISED - |
|                             | DATE - 1/30/2017 | REVISED - |

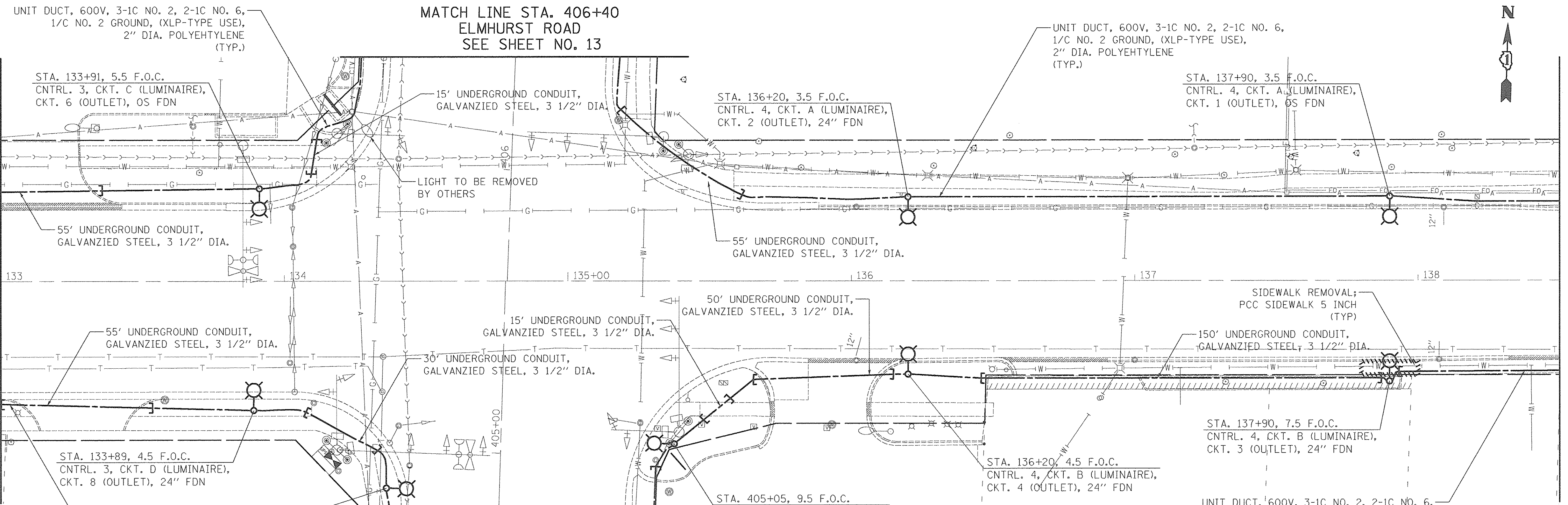
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

VILLAGE OF WHEELING  
LIGHTING PLAN

SCALE: 1" = 20' SHEET 3 OF 10 SHEETS STA. 122+00 TO STA. 133+00

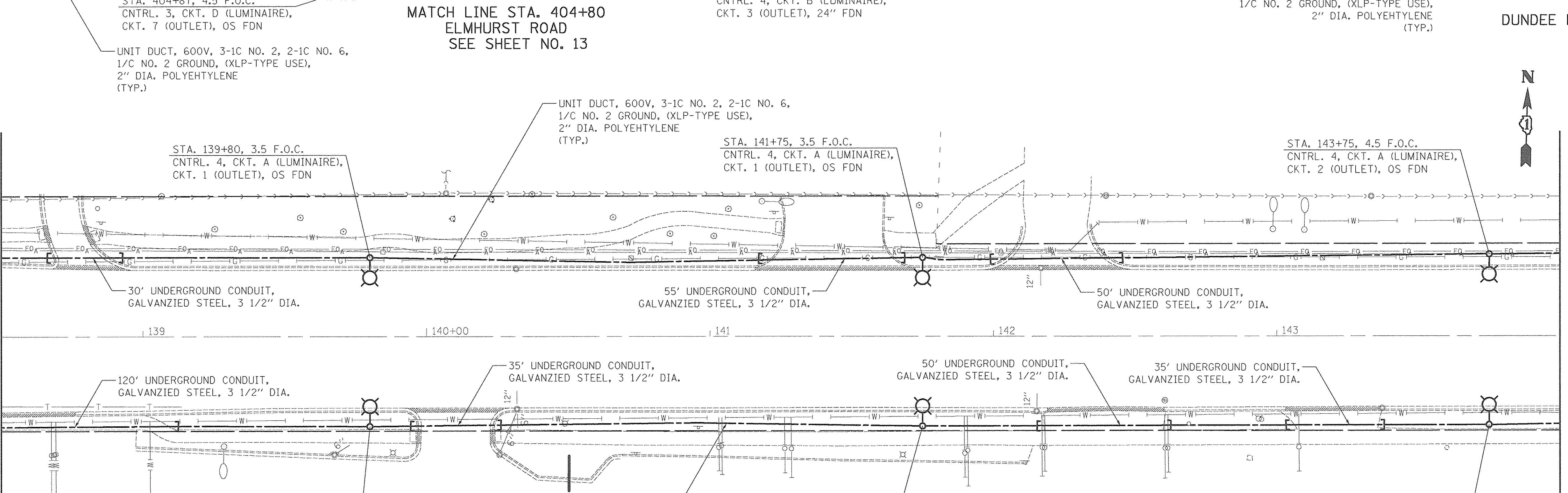
| F.A.P. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 343                       | 13-00080-01-LT | COOK   | 23           | 7         |
| CONTRACT NO. 61D73        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |





MATCH LINE STA. 133+00  
SEE SHEET NO. 7

MATCH LINE STA. 138+50



MATCH LINE STA. 138+50

MATCH LINE STA. 144+00  
SEE SHEET NO. 9

MATCH LINE STA. 406+40  
ELMHURST ROAD  
SEE SHEET NO. 13

MATCH LINE STA. 404+80  
ELMHURST ROAD  
SEE SHEET NO. 13

DUNDEE ROAD

DUNDEE ROAD

PLOT DRIVER = spt\tdrvls  
PEN TABLE = spt\pen.tbl  
FILE NAME = ...2874.L08 LT.dgn



|                            |                  |           |
|----------------------------|------------------|-----------|
| USER NAME = sjc            | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 28.8000' / 1" | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017      | CHECKED - DNM    | REVISED - |
|                            | DATE - 1/30/2017 | REVISED - |

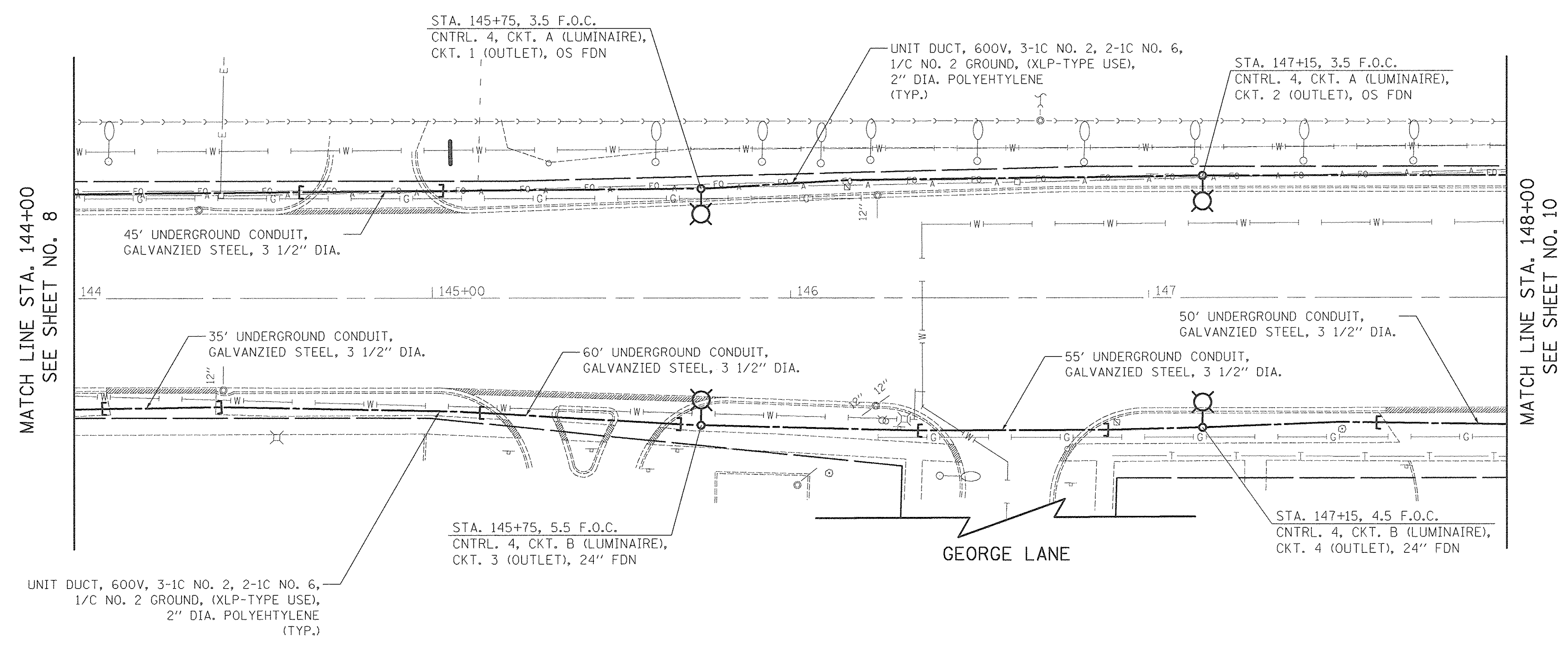
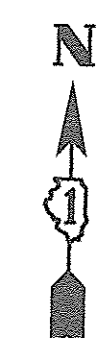
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

VILLAGE OF WHEELING  
LIGHTING PLAN

SCALE: 1" = 20' SHEET 4 OF 10 SHEETS STA. 133+00 TO STA. 144+00

|                           |                        |             |                 |             |
|---------------------------|------------------------|-------------|-----------------|-------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 8 |
| CONTRACT NO. 61D73        |                        |             |                 |             |
| ILLINOIS FED. AID PROJECT |                        |             |                 |             |





MATCH LINE STA. 144+00  
SEE SHEET NO. 8

MATCH LINE STA. 148+00  
SEE SHEET NO. 10

GEORGE LANE

DUNDEE ROAD

PLOT DRIVER = \$PLTDVLS  
PEN TABLE = \$PENIBLLS  
FILE NAME = ..\2674.dgn



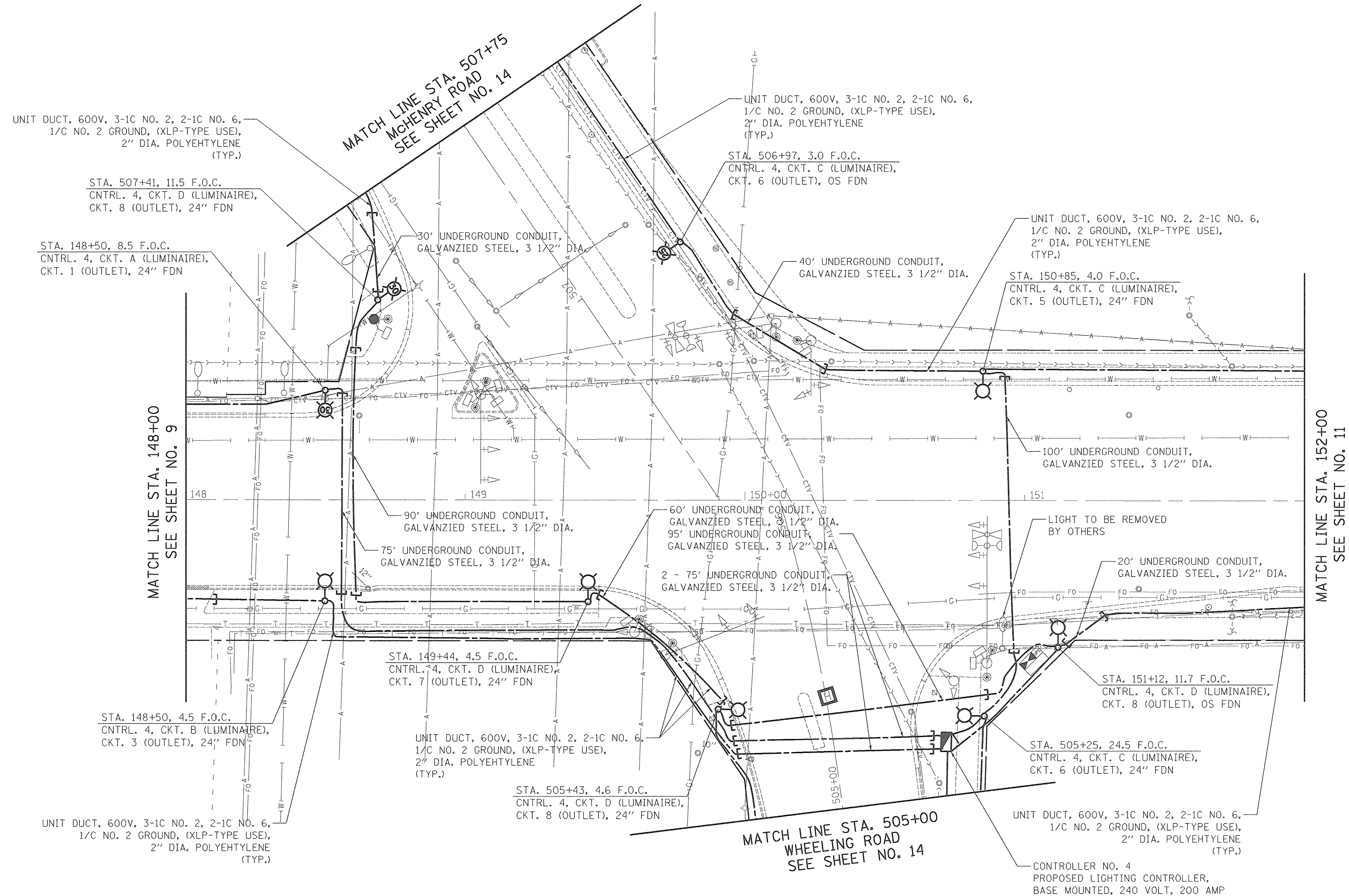
|                            |                  |           |
|----------------------------|------------------|-----------|
| USER NAME = sjc            | DESIGNED - SJC   | REVISED - |
|                            | DRAWN - SJC      | REVISED - |
| PLOT SCALE = 20.0000' / 1" | CHECKED - DNM    | REVISED - |
| PLOT DATE = 1/30/2017      | DATE - 1/30/2017 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
LIGHTING PLAN**

SCALE: 1" = 20' SHEET 5 OF 10 SHEETS STA. 144+00 TO STA. 148+00

| F.A.P. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 343                       | 13-00080-01-LT | COOK   | 23           | 9         |
| <b>CONTRACT NO. 61D73</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



PLOT DRIVER = #PLOTDRVL\$  
 PEN TABLE = #PENITBL\$  
 FILE NAME = ..\2674-10\_L1\_06.dgn



|                             |                  |           |
|-----------------------------|------------------|-----------|
| USER NAME = sjo             | DESIGNED - SJC   | REVISED - |
|                             | DRAWN - SJC      | REVISED - |
| PLOT SCALE = 20.0000' / in. | CHECKED - DNM    | REVISED - |
| PLOT DATE = 1/30/2017       | DATE - 1/30/2017 | REVISED - |

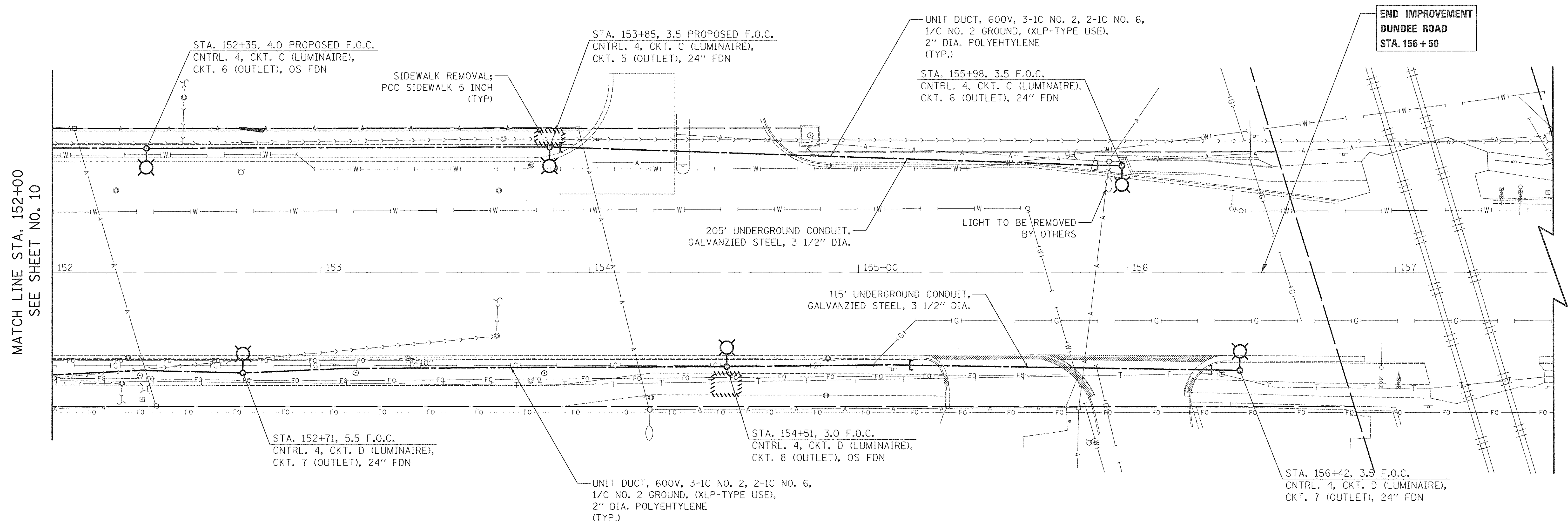
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
LIGHTING PLAN**

SCALE: 1" = 20' SHEET 6 OF 10 SHEETS STA. 148+00 TO STA. 152+00

|                           |                        |             |                 |              |
|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 10 |
| CONTRACT NO. 61D73        |                        |             |                 |              |
| ILLINOIS FED. AID PROJECT |                        |             |                 |              |





MATCH LINE STA. 152+00  
SEE SHEET NO. 10

**END IMPROVEMENT  
DUNDEE ROAD  
STA. 156+50**

DUNDEE ROAD

PLOT DRIVER = \$PLTDVLS  
PEN TABLE = \$PENTBLLS  
FILE NAME = ..\2674-11.LT.07.dgn



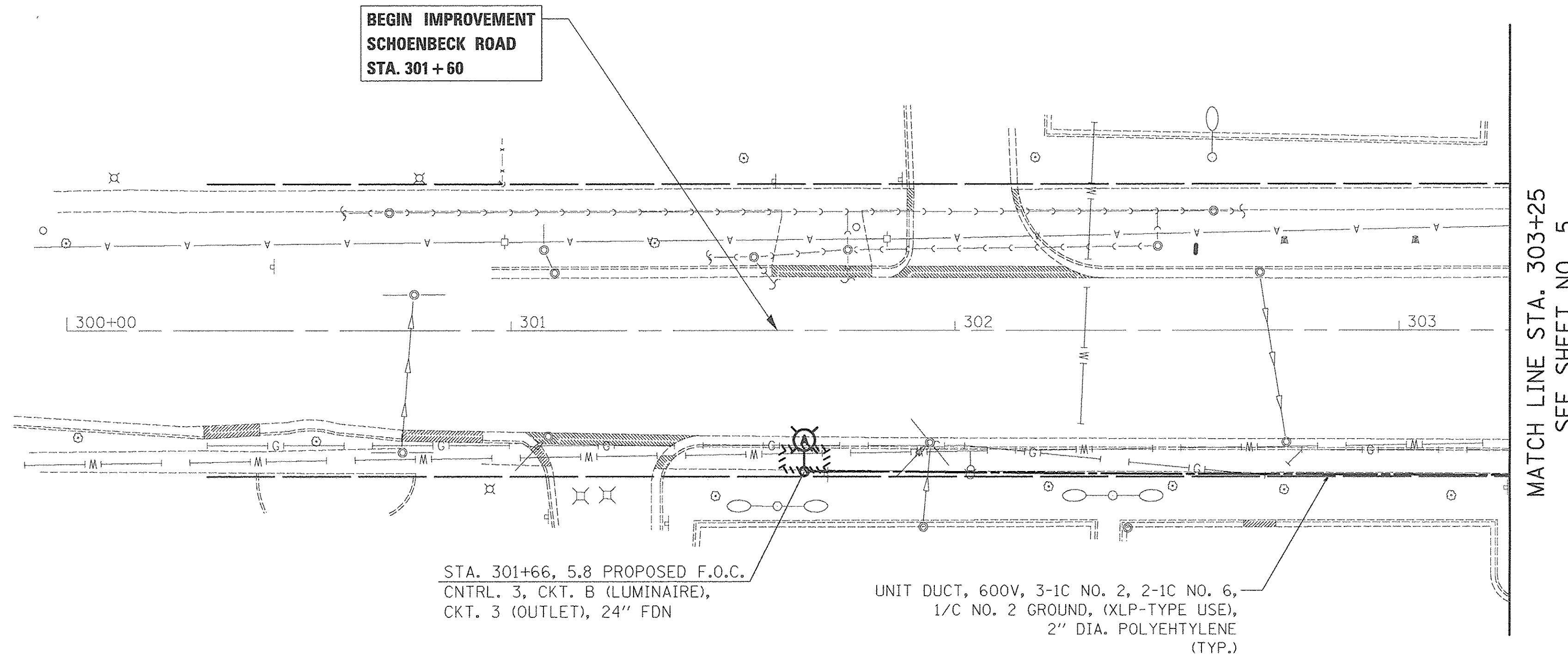
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|----------------------------|------------------|-----------|
| USER NAME = sjo            | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20.0000' / 1" | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017      | CHECKED - DNM    | REVISED - |
|                            | DATE - 1/30/2017 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
LIGHTING PLAN**

SCALE: 1" = 20' SHEET 7 OF 10 SHEETS STA. 152+00 TO STA. 156+42

|                           |                           |                |                    |                 |
|---------------------------|---------------------------|----------------|--------------------|-----------------|
| F.A.P. RTE.<br>343        | SECTION<br>13-00080-01-LT | COUNTY<br>COOK | TOTAL SHEETS<br>23 | SHEET NO.<br>11 |
| CONTRACT NO. 61D73        |                           |                |                    |                 |
| ILLINOIS FED. AID PROJECT |                           |                |                    |                 |



SCHOENBECK ROAD

PLOT DRIVER = \$PLTDRVL\$  
 PEN TABLE = \$PENLBLE\$  
 FILE NAME = ...2674-12.LT\_08.dgn



|                            |                  |           |
|----------------------------|------------------|-----------|
| USER NAME = sjo            | DESIGNED - SJC   | REVISED - |
|                            | DRAWN - SJC      | REVISED - |
| PLOT SCALE = 20.0000' / 1" | CHECKED - DNM    | REVISED - |
| PLOT DATE = 1/30/2017      | DATE - 1/30/2017 | REVISED - |

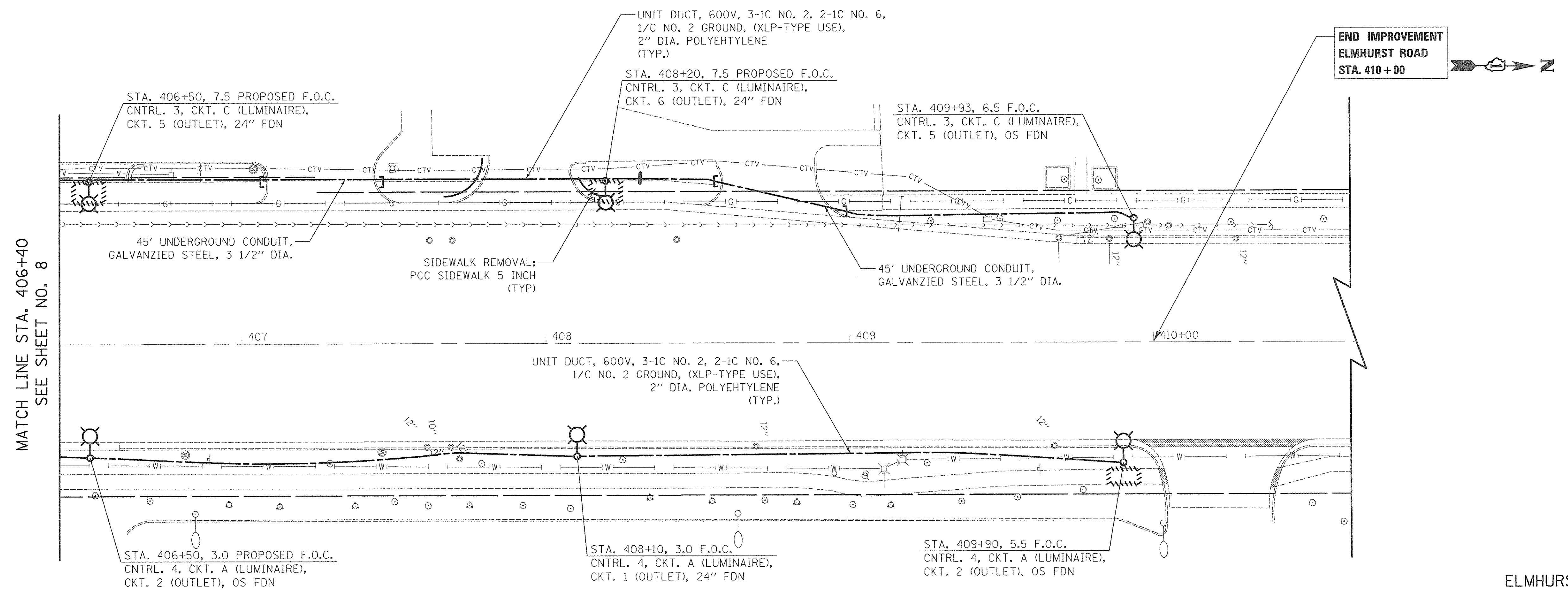
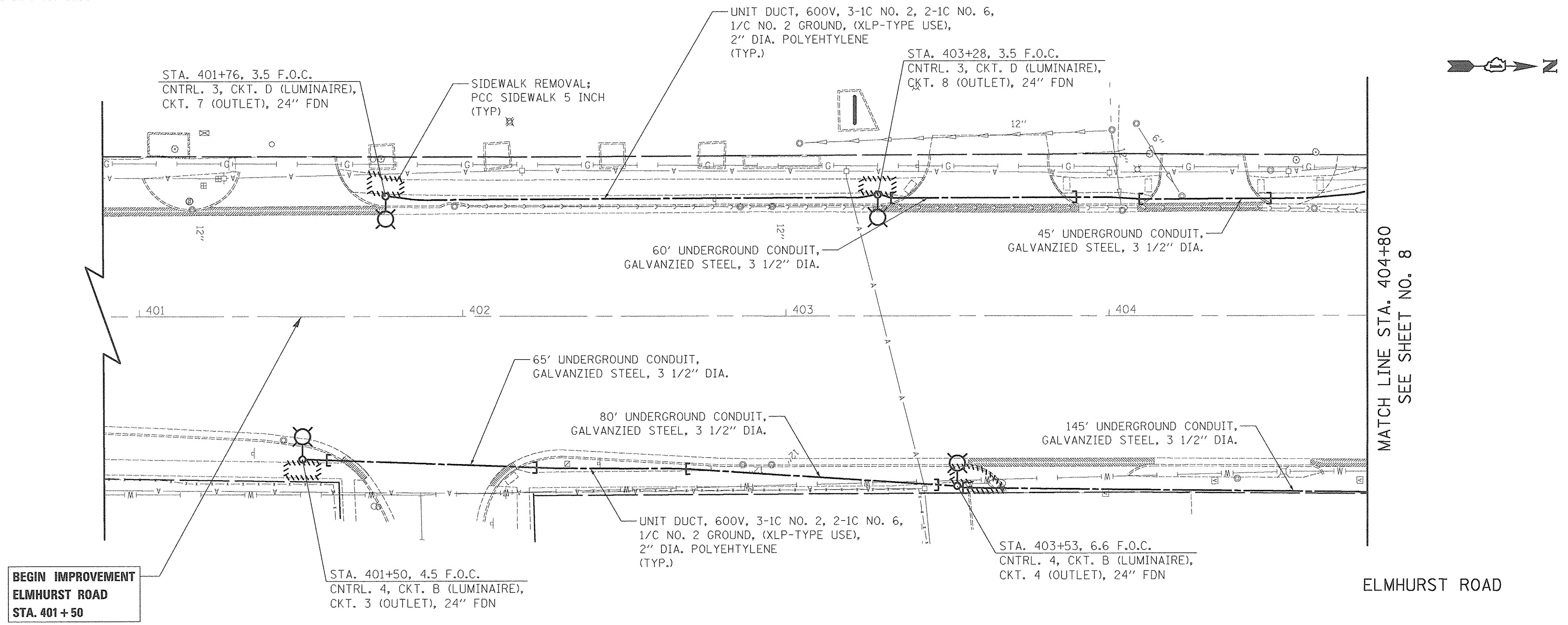
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

VILLAGE OF WHEELING  
 LIGHTING PLAN

SCALE: 1" = 20' SHEET 8 OF 10 SHEETS STA. 300+00 TO STA. 303+25

| F.A.P. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 343                       | 13-00080-01-LT | COOK   | 23           | 12        |
| CONTRACT NO. 61D73        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |





PLOT DRIVER = spt\_tdrvl8  
PEN TABLE = spt\_penl8  
FILE NAME = ...2674.13 LT\_09.dgn



|                             |                  |           |
|-----------------------------|------------------|-----------|
| USER NAME = sjc             | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 28.0000' / in. | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017       | CHECKED - DNM    | REVISED - |
|                             | DATE - 1/30/2017 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

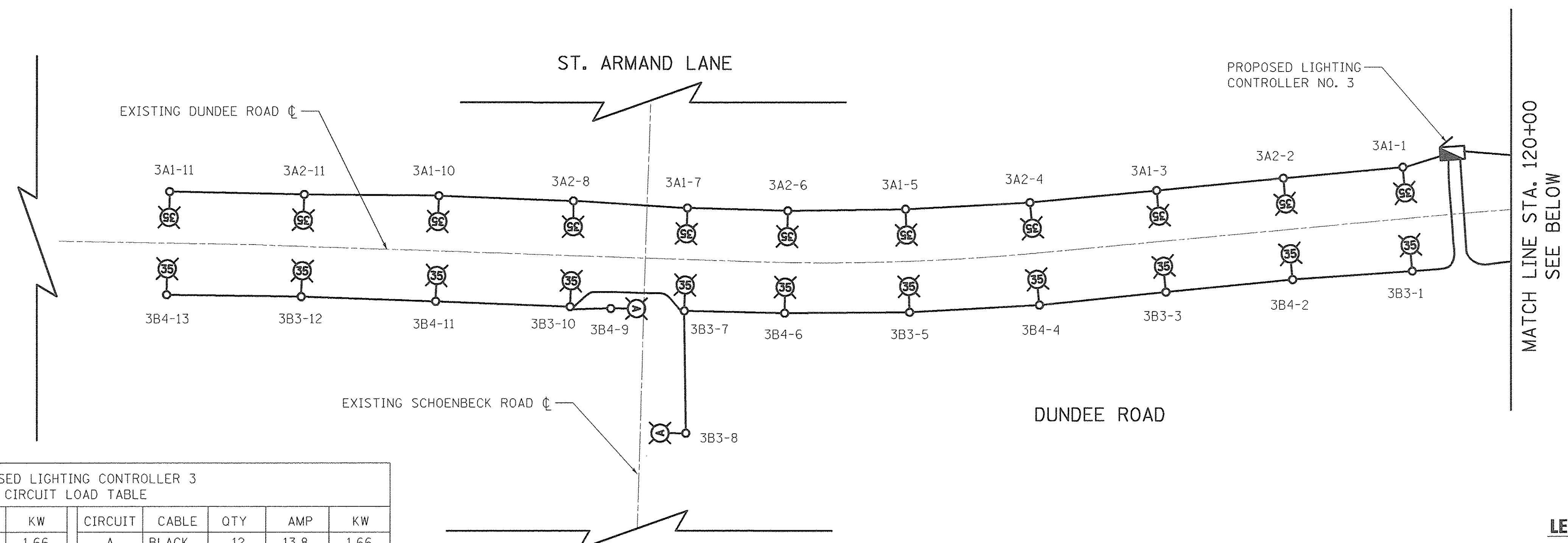
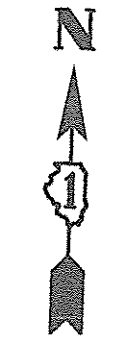
VILLAGE OF WHEELING  
LIGHTING PLAN

SCALE: 1" = 20' SHEET 9 OF 10 SHEETS STA. 401+00 TO STA. 410+00

| F.A.P. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 343                       | 13-00080-01-LT | COOK   | 23           | 13        |
| CONTRACT NO. 61D73        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

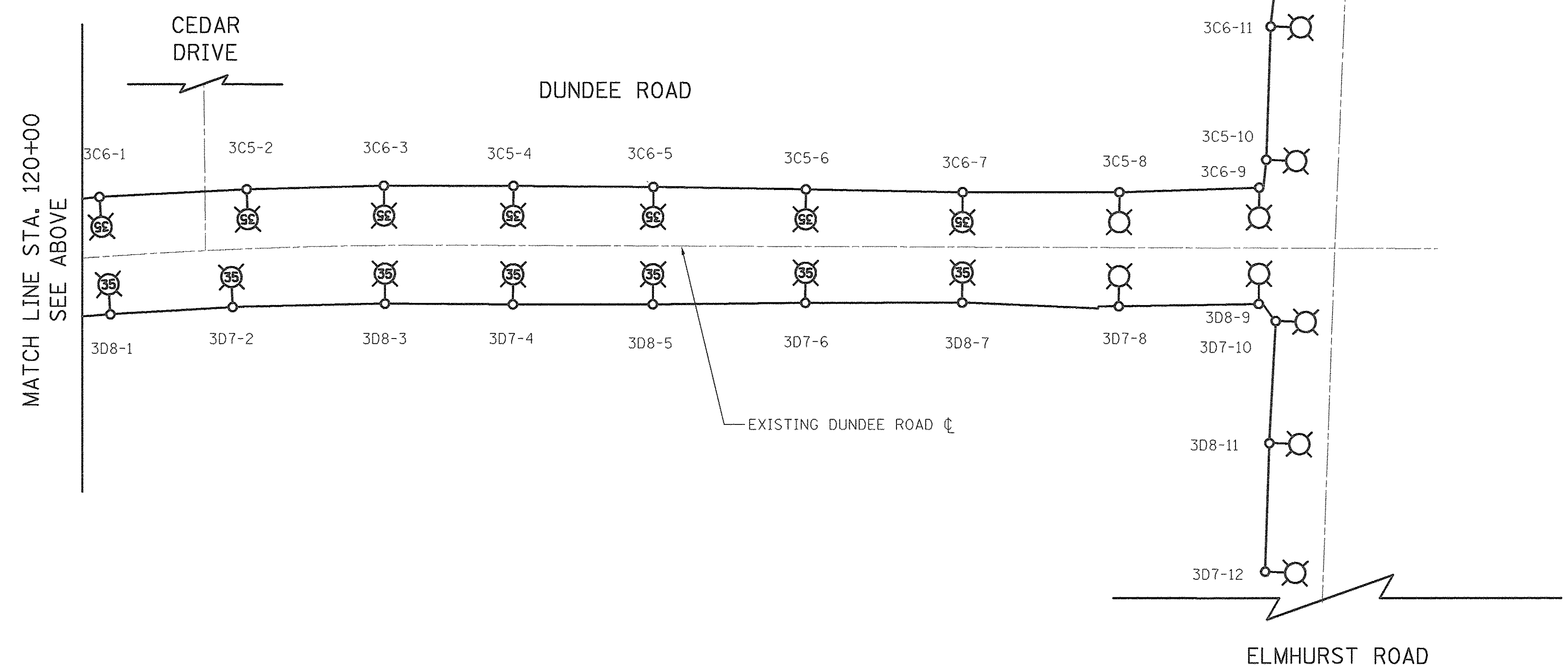






| CIRCUIT | CABLE | QTY   | AMP   | KW   | CIRCUIT | CABLE  | QTY   | AMP   | KW   |
|---------|-------|-------|-------|------|---------|--------|-------|-------|------|
| A       | RED   | 12    | 13.8  | 1.66 | A       | BLACK  | 12    | 13.8  | 1.66 |
| B       | RED   | 12    | 13.8  | 1.66 | B       | BLACK  | 12    | 13.8  | 1.66 |
| C       | RED   | 12    | 13.8  | 1.66 | C       | BLACK  | 12    | 13.8  | 1.66 |
| D       | RED   | 12    | 13.8  | 1.66 | D       | BLACK  | 12    | 13.8  | 1.66 |
| 1       | BLUE  | 6     | 12.0  | 1.44 | 2       | ORANGE | 6     | 12.0  | 1.44 |
| 3       | BLUE  | 6     | 12.0  | 1.44 | 4       | ORANGE | 6     | 12.0  | 1.44 |
| 5       | BLUE  | 6     | 12.0  | 1.44 | 6       | ORANGE | 6     | 12.0  | 1.44 |
| 7       | BLUE  | 6     | 12.0  | 1.44 | 8       | ORANGE | 6     | 12.0  | 1.44 |
| TOTAL   |       | 103.2 | 12.40 |      | TOTAL   |        | 103.2 | 12.40 |      |

LUMINAIRE (CIRCUITS A - D) 274 WATT AT 240V = 1.15 AMPS  
 OUTLETS (CIRCUITS 1 - 8) AT 120V = 2 AMPS



- LEGEND**
- - 
  - 
  - 
  - 
  - 
  - 
  - 
  -
- CONTROLLER NUMBER ——— POLE NUMBER  
 LUMINAIRE CIRCUIT ——— 1B2-10 ——— OUTLET CIRCUIT

PLOT DRIVER = #PLTDVLS\$  
 PEN TABLE = #PENIBL16  
 FILE NAME = ..\2674.15 Det.01 pr wiring diagram.dgn



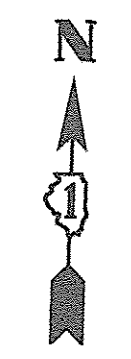
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|-----------------------------|------------------|-----------|
| USER NAME = sjo             | DESIGNED - SJC   | REVISED - |
|                             | DRAWN - SJC      | REVISED - |
| PLOT SCALE = 20.0000' / in. | CHECKED - DNM    | REVISED - |
| PLOT DATE = 1/30/2017       | DATE - 1/30/2017 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
PROPOSED WIRING DIAGRAM**

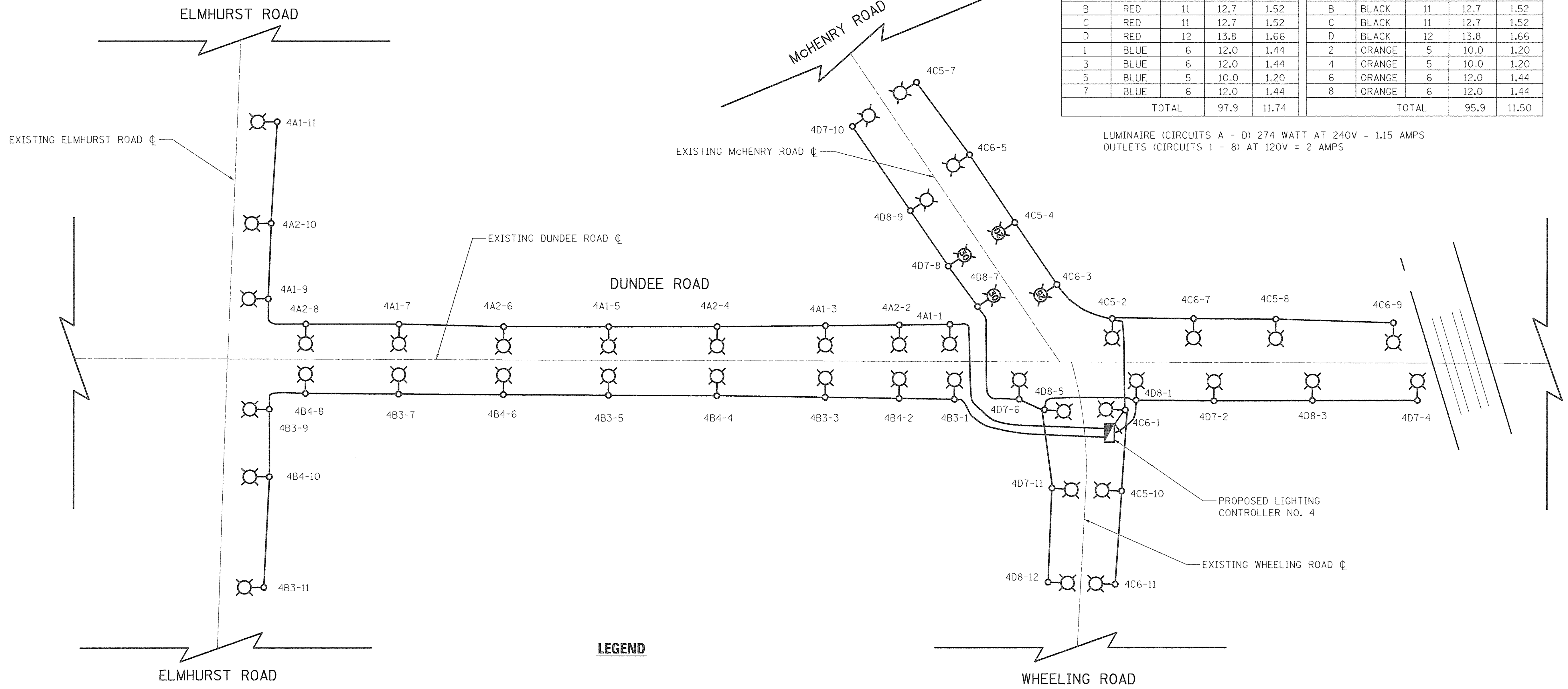
SCALE: 1" = 20' SHEET 1 OF X SHEETS STA. XX+XX TO STA. XX+XX

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 343                       | 13-00080-01-LT | COOK   | 23           | 15        |
| CONTRACT NO. 61D73        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



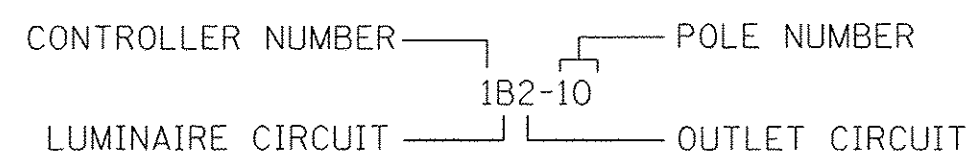
| PROPOSED LIGHTING CONTROLLER 4<br>CIRCUIT LOAD TABLE |       |     |      |      |         |        |     |      |      |
|--|-------|-----|------|------|---------|--------|-----|------|------|
| CIRCUIT  | CABLE | QTY | AMP  | KW   | CIRCUIT | CABLE  | QTY | AMP  | KW   |
| A  | RED   | 11  | 12.7 | 1.52 | A       | BLACK  | 11  | 12.7 | 1.52 |
| B  | RED   | 11  | 12.7 | 1.52 | B       | BLACK  | 11  | 12.7 | 1.52 |
| C  | RED   | 11  | 12.7 | 1.52 | C       | BLACK  | 11  | 12.7 | 1.52 |
| D  | RED   | 12  | 13.8 | 1.66 | D       | BLACK  | 12  | 13.8 | 1.66 |
| 1  | BLUE  | 6   | 12.0 | 1.44 | 2       | ORANGE | 5   | 10.0 | 1.20 |
| 3  | BLUE  | 6   | 12.0 | 1.44 | 4       | ORANGE | 5   | 10.0 | 1.20 |
| 5  | BLUE  | 5   | 10.0 | 1.20 | 6       | ORANGE | 6   | 12.0 | 1.44 |
| 7  | BLUE  | 6   | 12.0 | 1.44 | 8       | ORANGE | 6   | 12.0 | 1.44 |
| TOTAL  |       |     |      |      | TOTAL   |        |     |      |      |
| 97.9   |       |     |      |      | 11.74   |        |     |      |      |
|  |       |     |      |      | 95.9    |        |     |      |      |
|  |       |     |      |      | 11.50   |        |     |      |      |

LUMINAIRE (CIRCUITS A - D) 274 WATT AT 240V = 1.15 AMPS  
 OUTLETS (CIRCUITS 1 - 8) AT 120V = 2 AMPS



**LEGEND**

- PROPOSED LIGHTING UNIT  
 LUMINAIRE INSTALLATION, TYPE 1  
 274 WATT LED, 240V (PHASE TO PHASE),  
 8" HORIZONTAL TENON ARM, 40' MH
- PROPOSED LIGHTING UNIT  
 LUMINAIRE INSTALLATION, TYPE 2  
 274 WATT LED, 240V (PHASE TO PHASE),  
 FAO MODULE POSITION 4 (82% OF LUMEN)  
 8" HORIZONTAL TENON ARM, 35' MH
- PROPOSED LIGHTING UNIT  
 LUMINAIRE INSTALLATION, TYPE 3  
 274 WATT LED, 240V (PHASE TO PHASE),  
 FAO MODULE POSITION 2 (58% OF LUMEN)  
 8" HORIZONTAL TENON ARM, 35' MH
- PROPOSED LIGHTING CONTROLLER  
 BASE MOUNTED, 240 VOLT, 200 AMP
- PROPOSED UNIT DUCT (SIZE AND TYPE AS  
 SPECIFIED IN PLANS)
- PROPOSED LIGHTING UNIT  
 LUMINAIRE INSTALLATION, TYPE 1  
 274 WATT LED, 240V (PHASE TO PHASE),  
 8" HORIZONTAL TENON ARM, 30' MH
- PROPOSED LIGHTING UNIT  
 LUMINAIRE INSTALLATION, TYPE 2  
 274 WATT LED, 240V (PHASE TO PHASE),  
 8" HORIZONTAL TENON ARM, 25' MH
- PROPOSED LIGHTING UNIT  
 LUMINAIRE INSTALLATION, TYPE 1  
 LIGHT POLE, SPECIAL, 20 FT. M.H.  
 274 WATT LED, 240V (PHASE TO PHASE),  
 8" HORIZONTAL TENON ARM, 20' MH
- PROPOSED LIGHTING UNIT  
 LUMINAIRE INSTALLATION, TYPE 3  
 274 WATT LED, 240V (PHASE TO PHASE),  
 FAO MODULE POSITION 2 (58% OF LUMEN)  
 8" HORIZONTAL TENON ARM, 35' MH
- PROPOSED LIGHTING CONTROLLER  
 BASE MOUNTED, 240 VOLT, 200 AMP
- PROPOSED UNIT DUCT (SIZE AND TYPE AS  
 SPECIFIED IN PLANS)



PLOT DRIVER = \$PLTDRVL\$  
 PEN TABLE = \$PENIBLL\$  
 FILE NAME = ..\2674.16 Det.02.pr wiring diagram.dgn



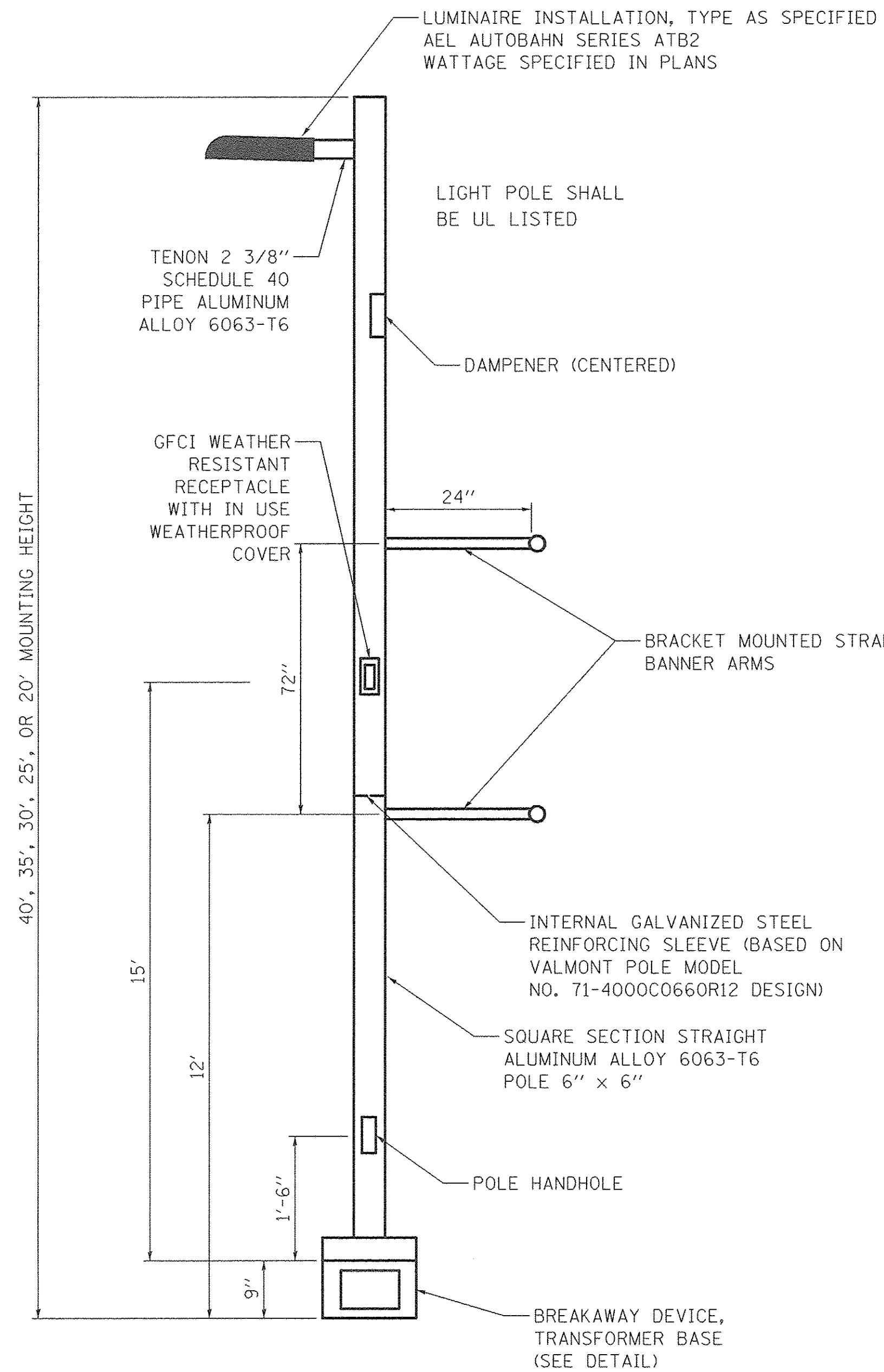
|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = ejo              | DESIGNED - SJC    | REVISED - |
| PLOT SCALE = 20.0000' / 1in. | DRAWN - SJC       | REVISED - |
| PLOT DATE = 1/30/2017        | CHECKED - DNM     | REVISED - |
|                              | DATE - 01/30/2017 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

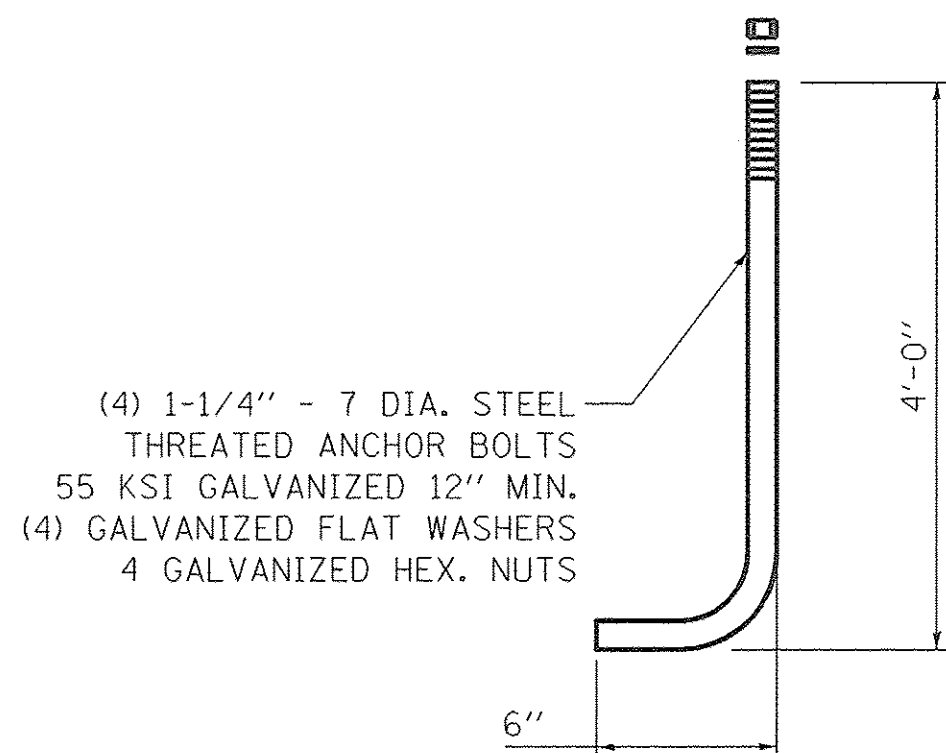
|                                |                     |
|--------------------------------|---------------------|
| <b>VILLAGE OF WHEELING</b>     |                     |
| <b>PROPOSED WIRING DIAGRAM</b> |                     |
| SCALE: 1" = 20'                | SHEET 2 OF X SHEETS |
| STA. XX+XX                     | TO STA. XX+XX       |

|                           |                        |             |                 |              |
|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 16 |
| CONTRACT NO. 61D73        |                        |             |                 |              |
| ILLINOIS FED. AID PROJECT |                        |             |                 |              |

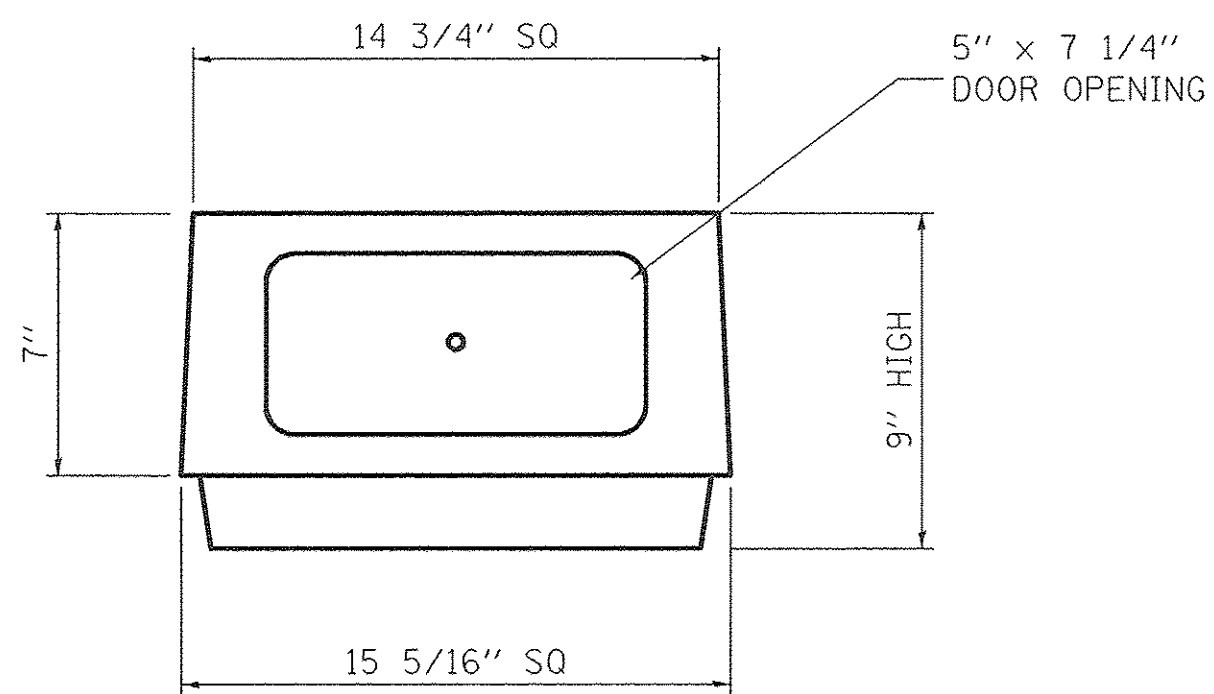




**LIGHT POLE, ALUMINUM**



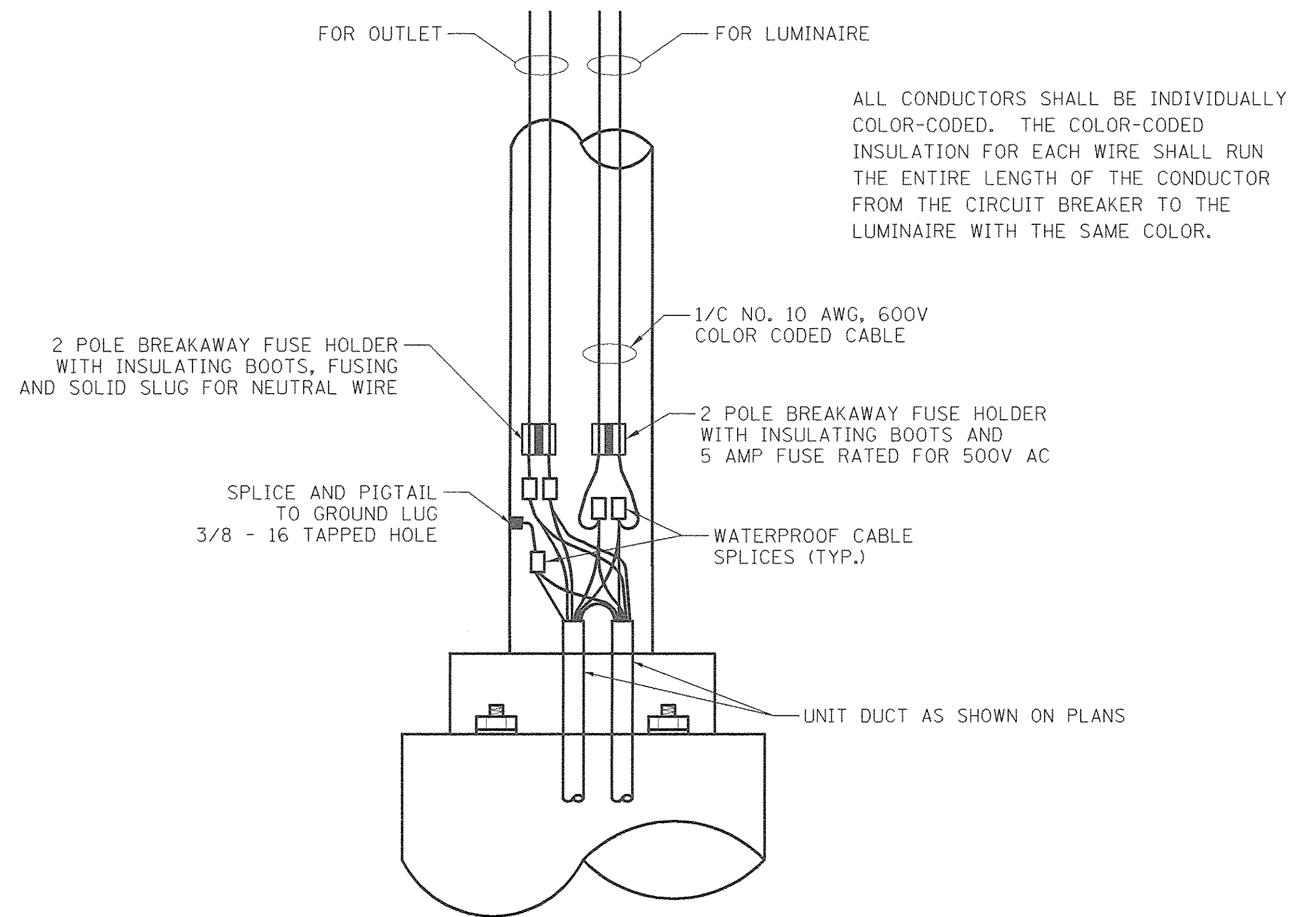
**ANCHOR BOLT**



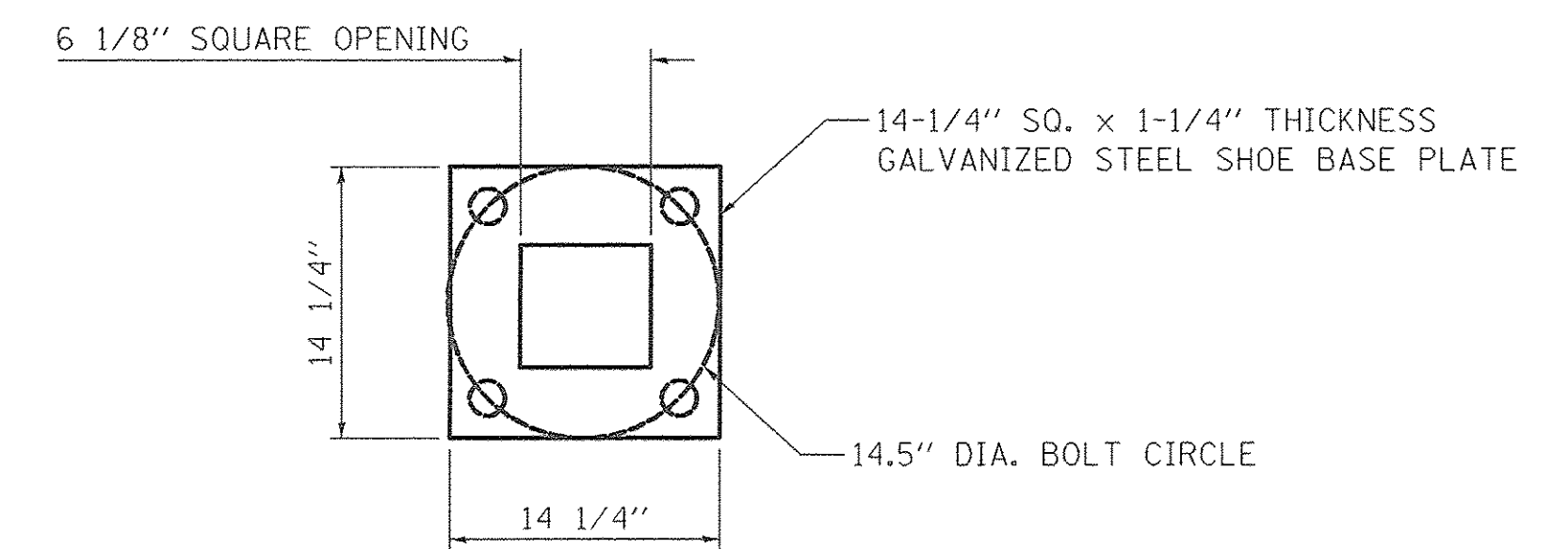
**BREAKAWAY DEVICE, TRANSFORMER BASE**

MATERIAL SHALL CONFORM TO ASTM DESIGNATION: B108 ALLOY 356-T6

BASE CONFORMS TO BREAKAWAY CRITERIA OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (1985)



**ROADWAY POLE HANDHOLE WIRING DIAGRAM**



**BASEPLATE**

PLOT DRIVER = \$PLTDVLS\$  
 PEN TABLE = \$PENTBL\$  
 FILE NAME = ..\2874.17 Det.03.dgn



|                               |                  |           |
|-------------------------------|------------------|-----------|
| USER NAME = sjc               | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20,000.0' / 1in. | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017         | CHECKED - DNM    | REVISED - |
|                               | DATE - 1/30/2017 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

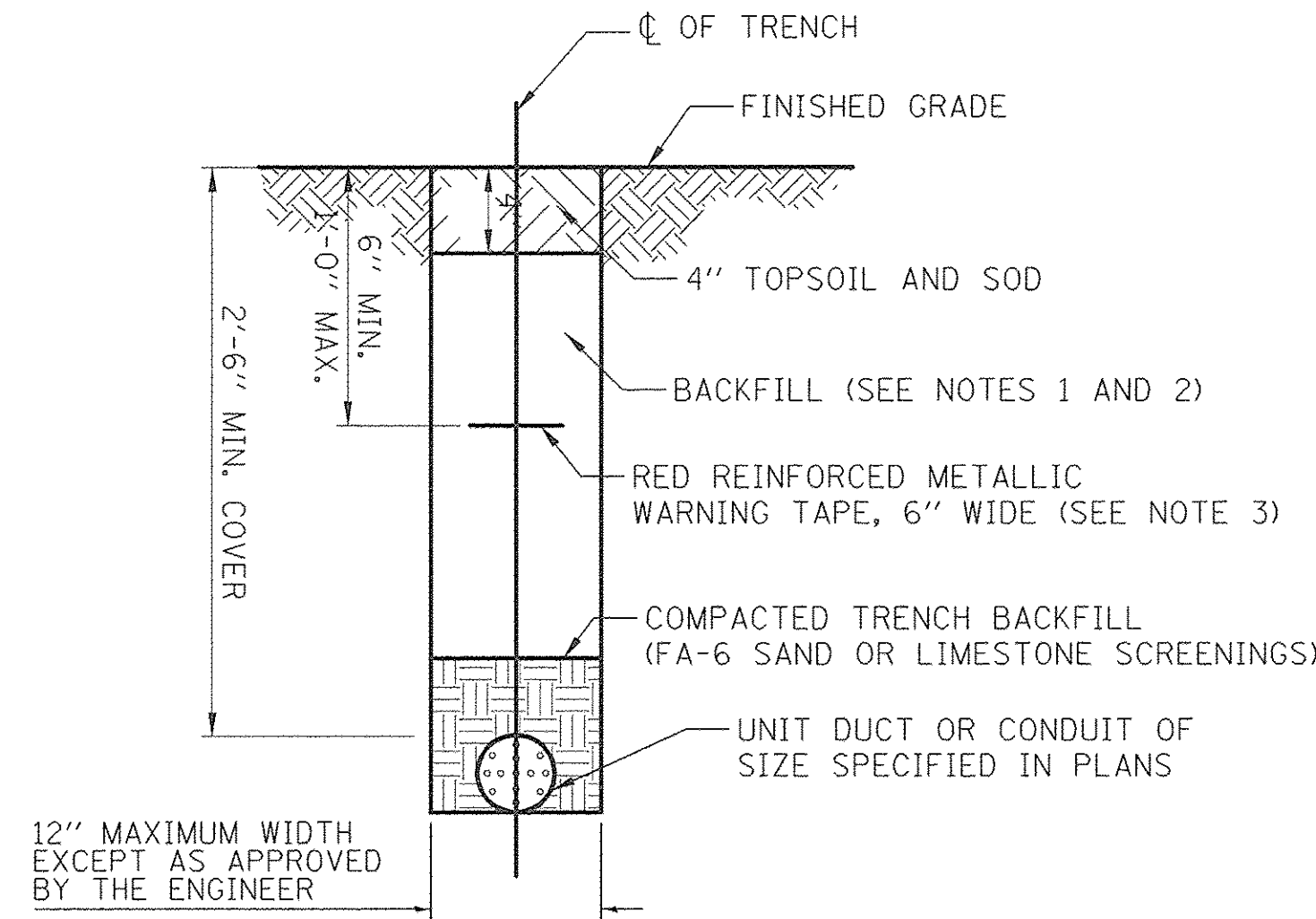
**VILLAGE OF WHEELING  
DUNDEE ROAD LIGHTING DETAILS**

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

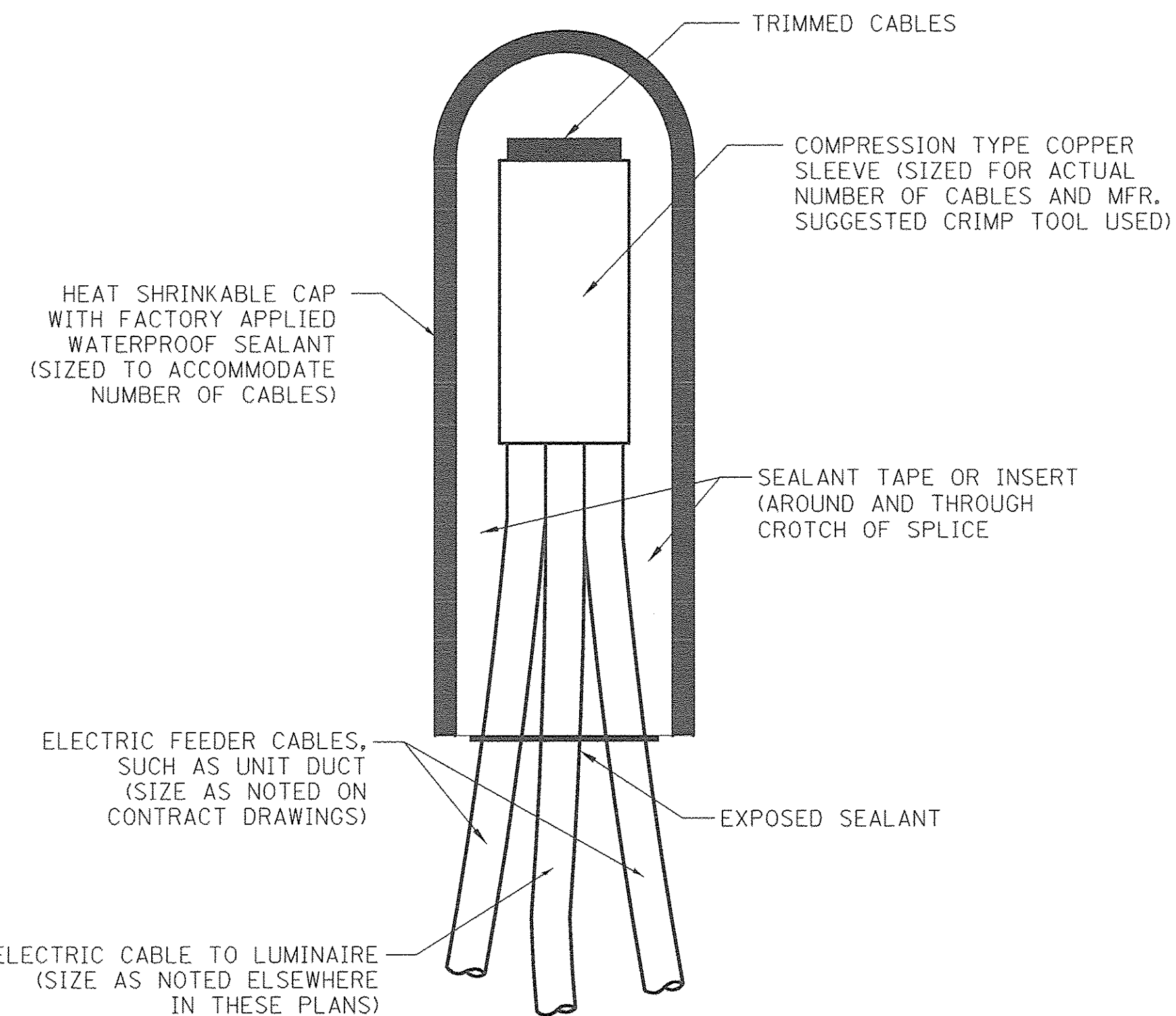
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|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 17 |
| CONTRACT NO. 61D73        |                        |             |                 |              |
| ILLINOIS FED. AID PROJECT |                        |             |                 |              |

**NOTES:**

1. IN GRASS COVERED AREAS, THE BACKFILL MAY BE COMPACTED EARTH.
2. TRENCHES WITHIN 2' OF PROPOSED OR EXISTING STREETS, DRIVEWAYS, OR SIDEWALKS WILL BE BACKFILLED WITH COMPACTED FA-6 SAND OR LIMESTONE SCREENINGS.
3. WARNING TAPE WILL BE RED WITH BLACK LETTERING TO READ "CAUTION - ELECTRIC LINE BURIED BELOW".
4. ALL GRASS COVERED AREAS DISTURBED DURING CONSTRUCTION WILL BE RESTORED WITH 4" OF TOPSOIL AND SOD.

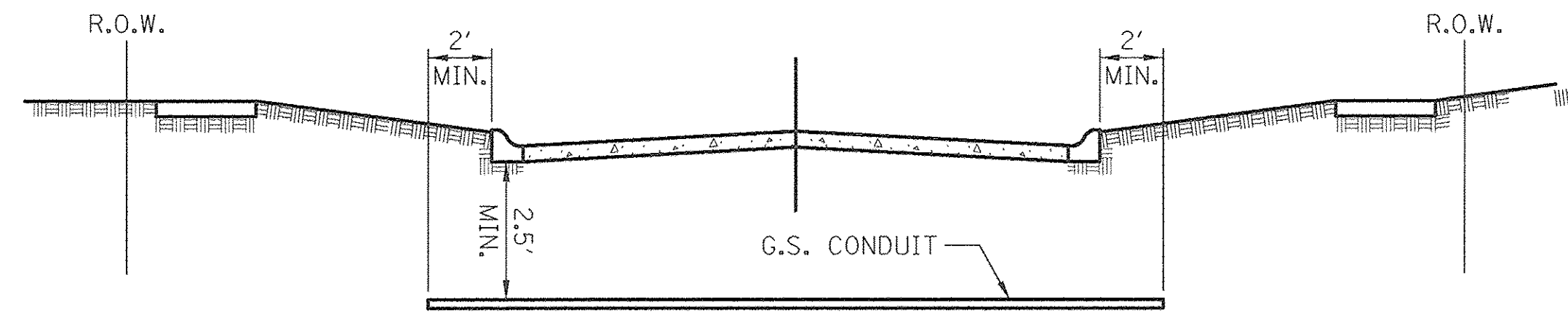


**TYPICAL TRENCH CROSS SECTION**



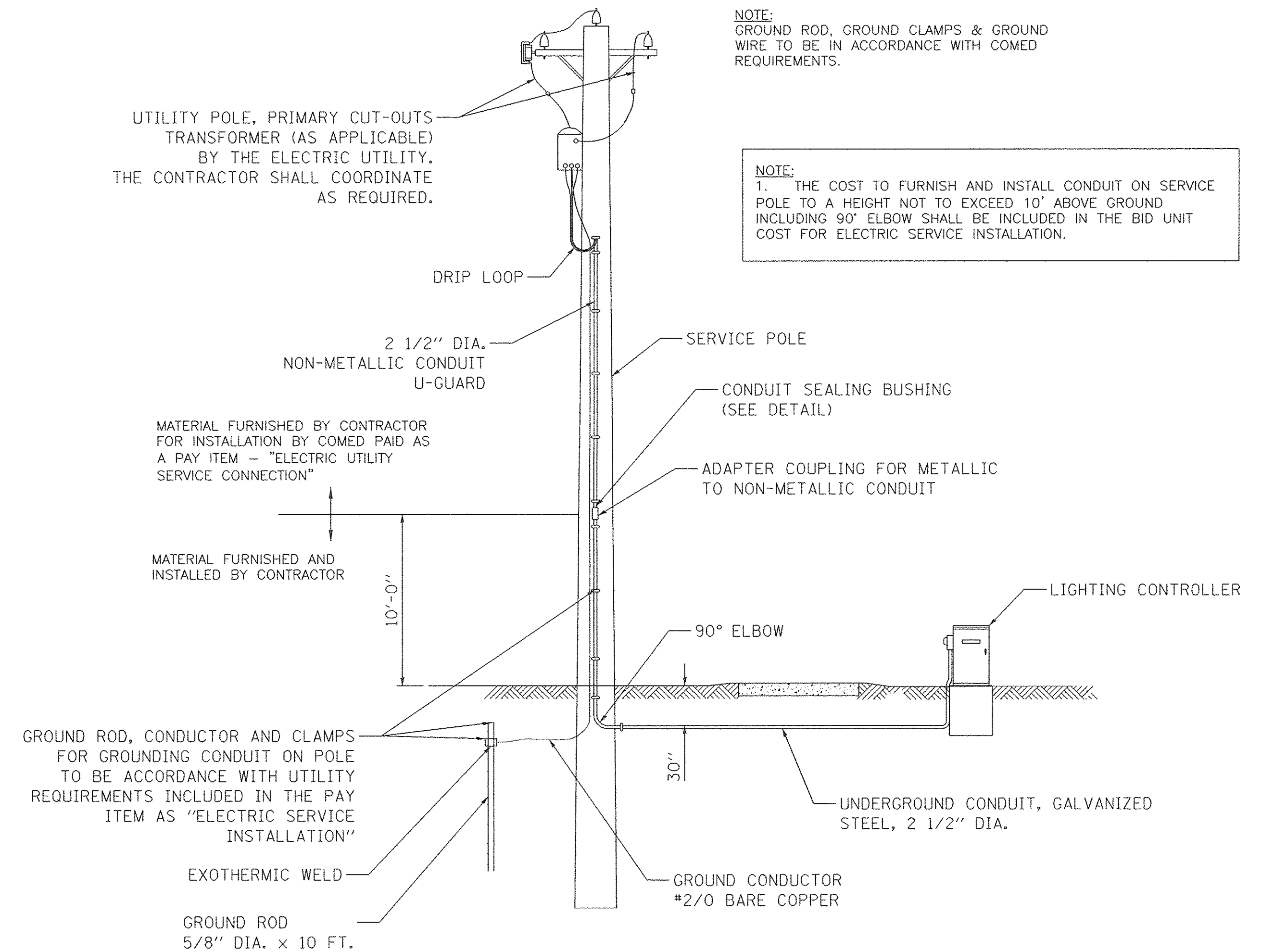
**SPLICING ELECTRIC CABLES  
BASIC MATERIALS AND METHODS**

NOTE: NUMBER OF CABLES IN SPLICE MAY VARY

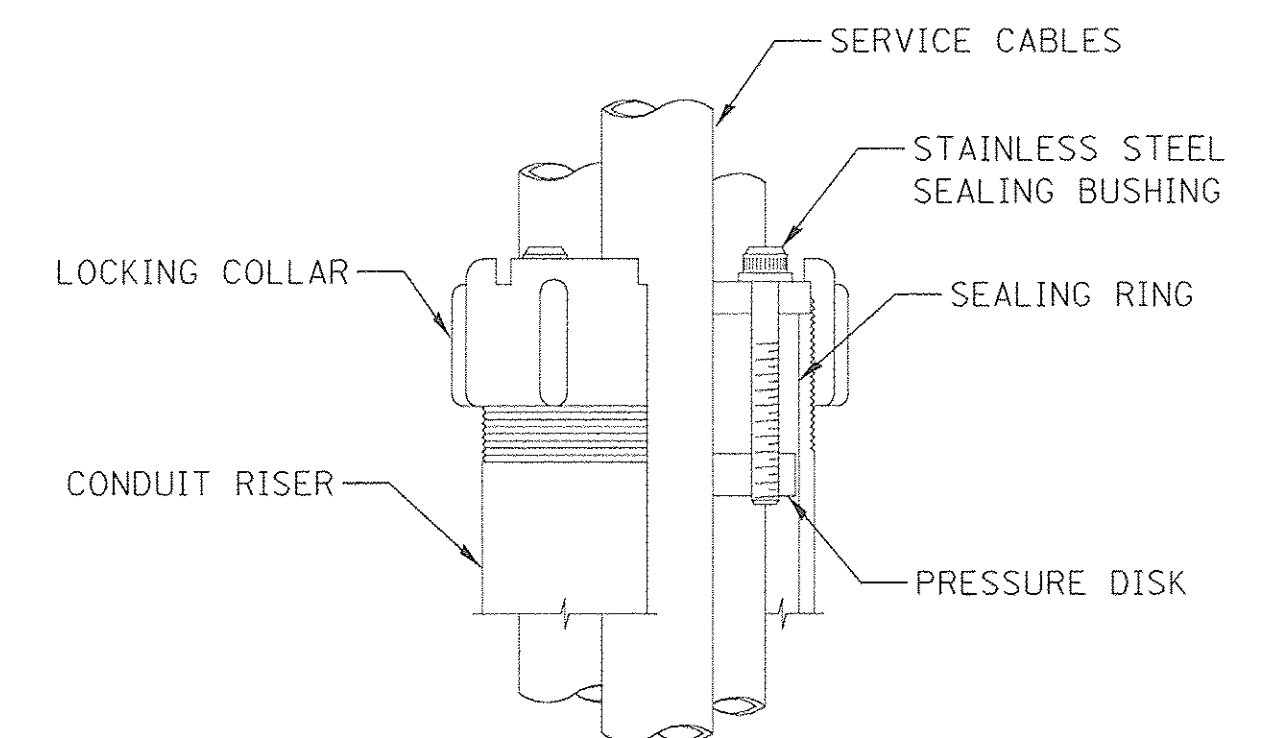


**ELECTRICAL CONDUIT UNDER PAVEMENT**

- ① CONDUIT SHALL BE HEAVY WALL RIGID G.S. CONDUIT.
- ② CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ CONDUIT SHALL BE A MINIMUM OF 2.5 FT. BELOW BOTTOM OF CURB.



**ELECTRIC SERVICE INSTALLATION**



**SEALING BUSHING DETAIL**

PLOT DRIVER = \$PLTDVLS\$  
PEN TABLE = \$PENIBLLS\$  
FILE NAME = ...2674.18 Det.dgn



|                              |                  |           |
|------------------------------|------------------|-----------|
| USER NAME = sjo              | DESIGNED - SJC   | REVISED - |
|                              | DRAWN - SJC      | REVISED - |
| PLOT SCALE = 20.0000' / 1in. | CHECKED - DNM    | REVISED - |
| PLOT DATE = 1/30/2017        | DATE - 1/30/2017 | REVISED - |

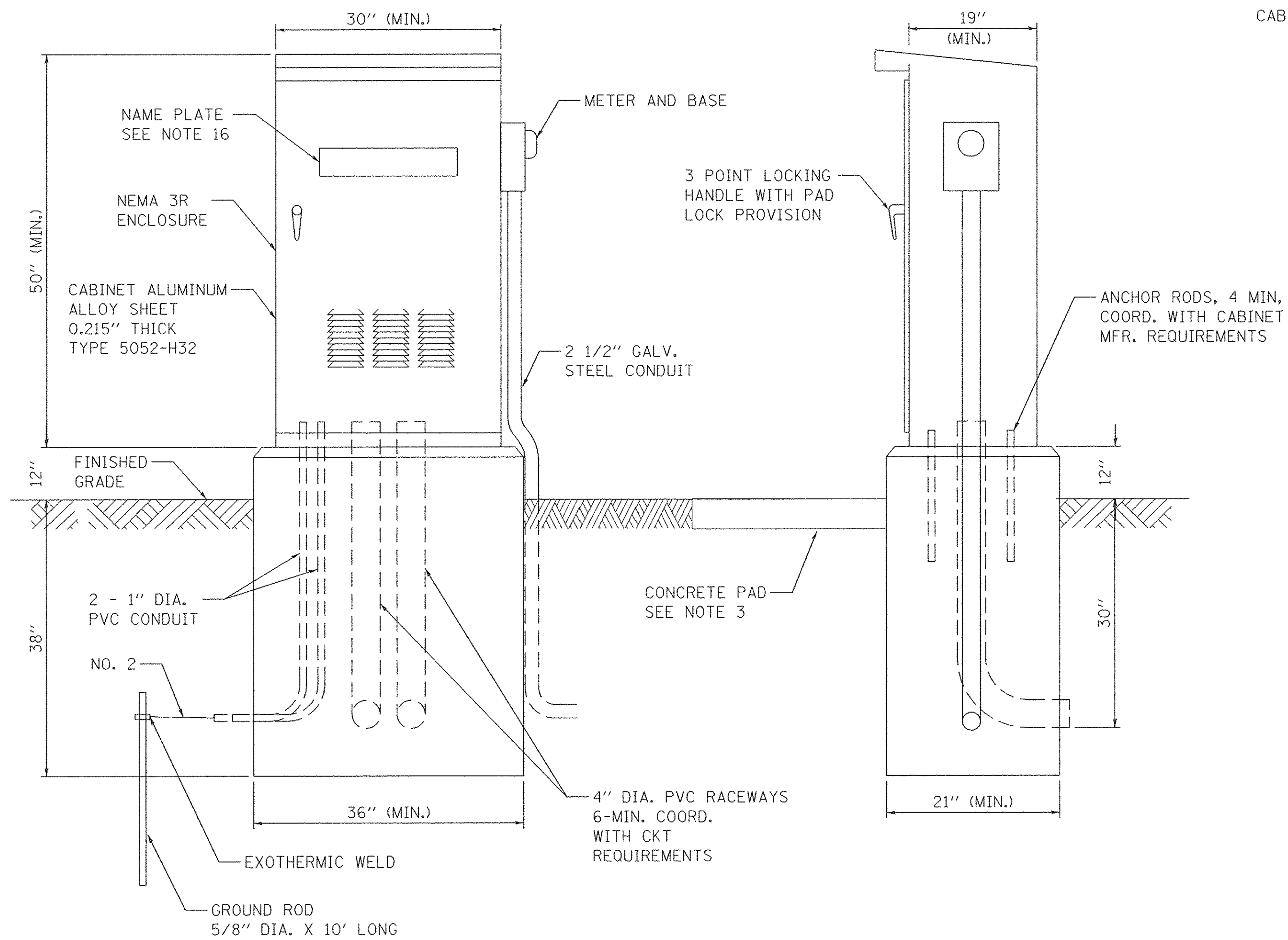
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF WHEELING  
DUNDEE ROAD LIGHTING DETAILS**

SCALE: NONE SHEET 2 OF X SHEETS STA. TO STA.

|                           |                        |             |                 |              |
|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 18 |
| CONTRACT NO. 61D73        |                        |             |                 |              |
| ILLINOIS FED. AID PROJECT |                        |             |                 |              |

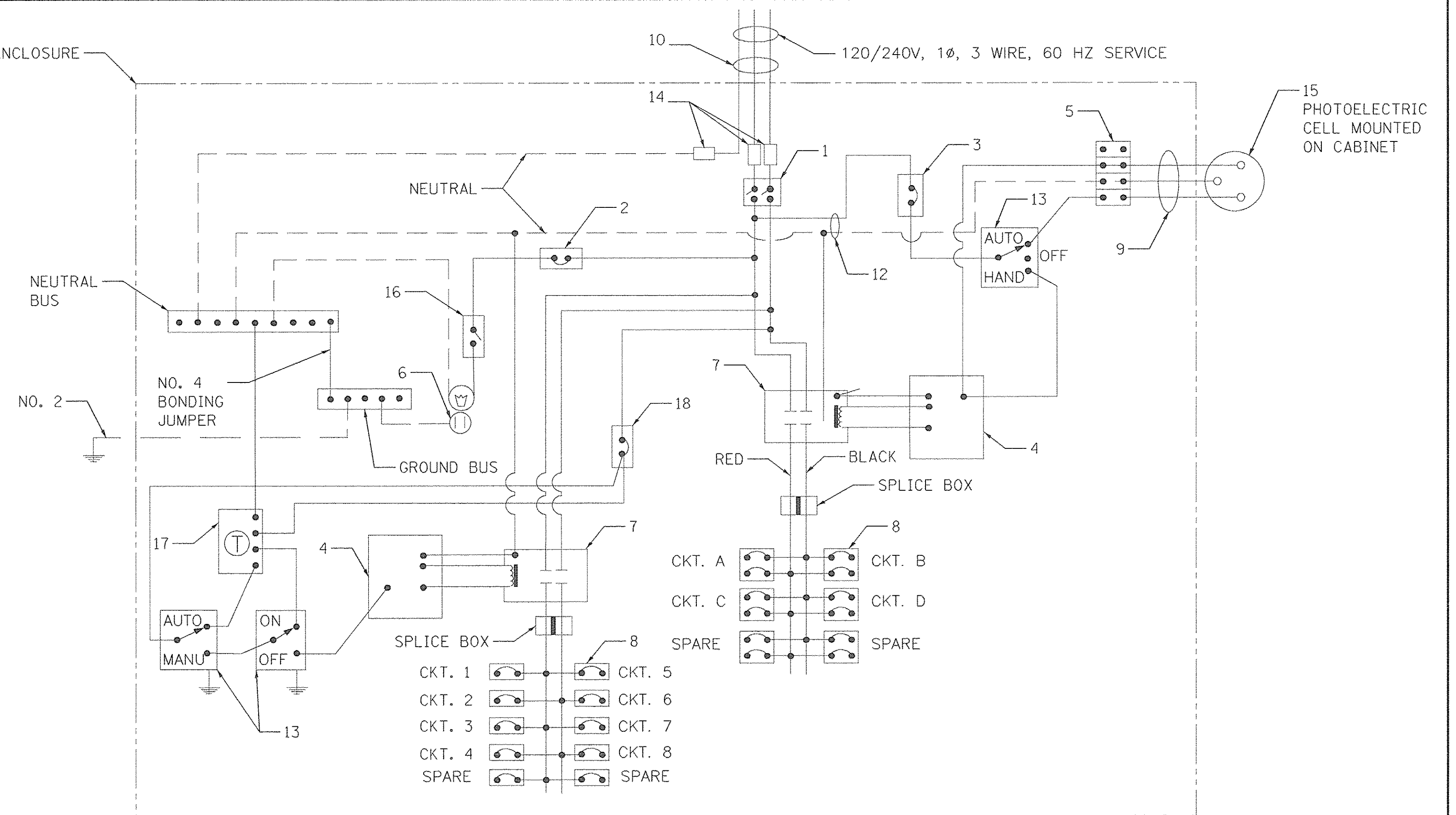




**LIGHTING CONTROLLER  
BASE MOUNTED, 240 VOLT, 200 AMP**

**NOTES:**

1. THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET.
2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
3. IN FRONT OF THE CONTROLLER CABINET DOOR, REMOVE VEGETATION AND 2" TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" X 60" X 4" MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" DIA. STAINLESS STEEL HINGE PIN.
7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
8. CONTROL WIRING SHALL BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.
9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
10. CABINET SHALL BE ALUMINUM FINISH.
11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED      BL = BLUE      W = WHITE  
B = BLACK    Y = YELLOW      G = GREEN
13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICE IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
16. 12" X 16" STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "VILLAGE OF WHEELING LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.



**LIGHTING CONTROLLER WIRING DIAGRAM**

**LIGHTING CONTROLLER COMPONENT SCHEDULE**

| ITEM   | SPECIFICATION OR EQUAL   |
|--|--|
| ① MAIN CIRCUIT BREAKER                       | 200 AMPERE, 2 POLE, 240 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 600V  |
| ② LAMPHOLDER CIRCUIT BREAKER                 | 15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 14,000 RMS SYMMETRICAL AMPS AT 277V   |
| ③ PHOTOELECTRIC CELL CONTROL CIRCUIT BREAKER | 15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 14,000 RMS SYMMETRICAL AMPS AT 277V   |
| ④ AUXILIARY RELAY                            | 120 VOLT SPST 60 HZ COIL   |
| ⑤ FOUR POINT TERMINAL BLOCK                  | 600 VOLT   |
| ⑥ LAMPHOLDER AND OUTLET                      | 120 VOLT SWITCHED LAMPHOLDER AND 20 AMP GFI DUPLEX RECEPTACLE. WEATHERPROOF SINGLE GANG CAST ALUMINUM BOX AND WEATHERPROOF COVER.  |
| ⑦ REMOTE CONTROL SWITCH - CONTACTOR          | 100 AMPERE, 2 POLE, 240 VOLT RATING, 120V COIL. ELECTRICALLY OPERATED, MECHANICALLY HELD.  |
| ⑧ BRANCH LINE CIRCUIT BREAKERS               | CKTS. A - D = 30 AMP, 2 POLE, 240 VOLT RATING<br>CKTS. 1 - 8 = 20 AMP, 1 POLE, 120 VOLT<br>ALL CIRCUITS SHALL BE INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS AT 277V |
| ⑨ PHOTOELECTRIC CELL CONTROL WIRE            | 3-600V XLP NO. 10  |
| ⑩ SERVICE CABLES                             | 3-600V (XLP-TYPE USE) NO. 3/0  |
| ⑪ BRANCH LINE CABLES                         | SEE PLANS FOR SIZE   |
| ⑫ CONTROL WIRE                               | 2-600V XLP NO. 10  |
| ⑬ HAND-AUTO-OFF CONTROL SWITCH               | 10 AMPERE, 3 POLE, 120 VOLT.   |
| ⑭ LIGHTING ARRESTOR                          | BRACKET MOUNTED SURGE ARRESTOR FOR 120/240V 3W SERVICE   |
| ⑮ PHOTOELECTRIC CELL                         | 120 SECONDS OFF TIME DELAY, 120V   |
| ⑯ MICRO SWITCH                               | MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN  |
| ⑰ TIME CLOCK                                 | ASTRONOMICAL TIME CLOCK  |
| ⑱ TIME CLOCK CONTROL CIRCUIT BREAKER         | 15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 14,000 RMS SYMMETRICAL AMPS AT 277V   |

PLOT DRIVER = \$PLTDVLS  
 PEN TABLE = \$PENTBLS  
 FILE NAME = ..\2874.19 Det.03.dgn



|                            |                  |           |
|----------------------------|------------------|-----------|
| USER NAME = sjc            | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20.0000' / 1" | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017      | CHECKED - DNM    | REVISED - |
|                            | DATE - 1/30/2017 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

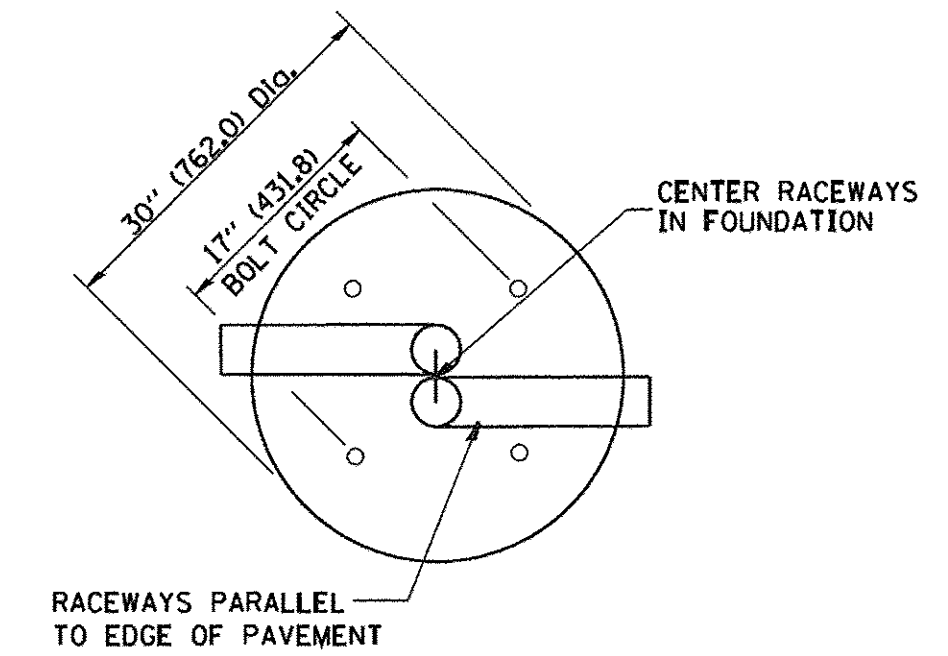
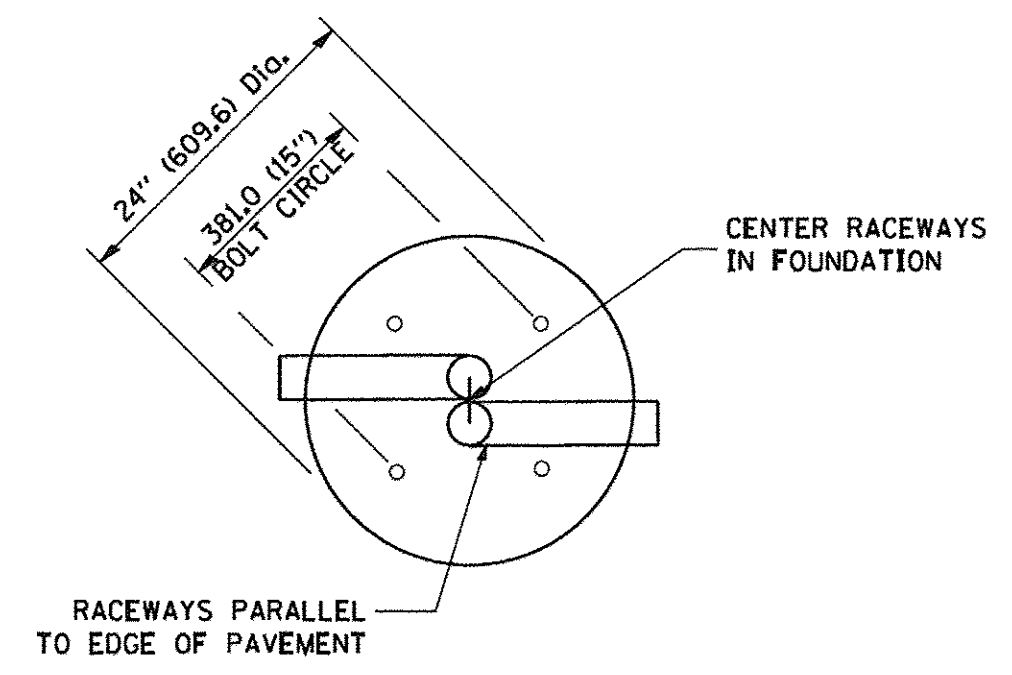
**VILLAGE OF WHEELING  
DUNDEE ROAD LIGHTING DETAILS**

SCALE: NONE SHEET 3 OF X SHEETS STA. TO STA.

|                           |                        |             |                 |              |
|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 19 |
| CONTRACT NO. 61D73        |                        |             |                 |              |
| ILLINOIS FED. AID PROJECT |                        |             |                 |              |

**LIGHT POLE FOUNDATION DEPTH TABLE**  
35 FT. TO 40 FT. MOUNTING HEIGHT

| SOIL CONDITIONS                                  | DESIGN DEPTH "D" OF FOUNDATION |                    |
|--|--------------------------------|--------------------|
|  | SINGLE ARM POLE                | TWIN ARM POLE      |
| SOFT CLAY<br>O <sub>u</sub> = 0.375 TON/SO. FT.  | 13'-0"<br>(3.96 m)             | 15'-0"<br>(4.57 m) |
| MEDIUM CLAY<br>O <sub>u</sub> = 0.75 TON/SO. FT. | 9'-6"<br>(2.93 m)              | 10'-9"<br>(3.23 m) |
| STIFF CLAY<br>O <sub>u</sub> = 1.50 TON/SO. FT.  | 7'-0"<br>(2.13 m)              | 8'-0"<br>(2.44 m)  |
| LOOSE SAND<br>φ = 34°                            | 9'-0"<br>(2.74 m)              | 10'-0"<br>(3.05 m) |
| MEDIUM SAND<br>φ = 37.5°                         | 8'-3"<br>(2.52 m)              | 9'-0"<br>(2.74 m)  |
| DENSE SAND<br>φ = 40°                            | 7'-9"<br>(2.36 m)              | 9'-0"<br>(2.74 m)  |

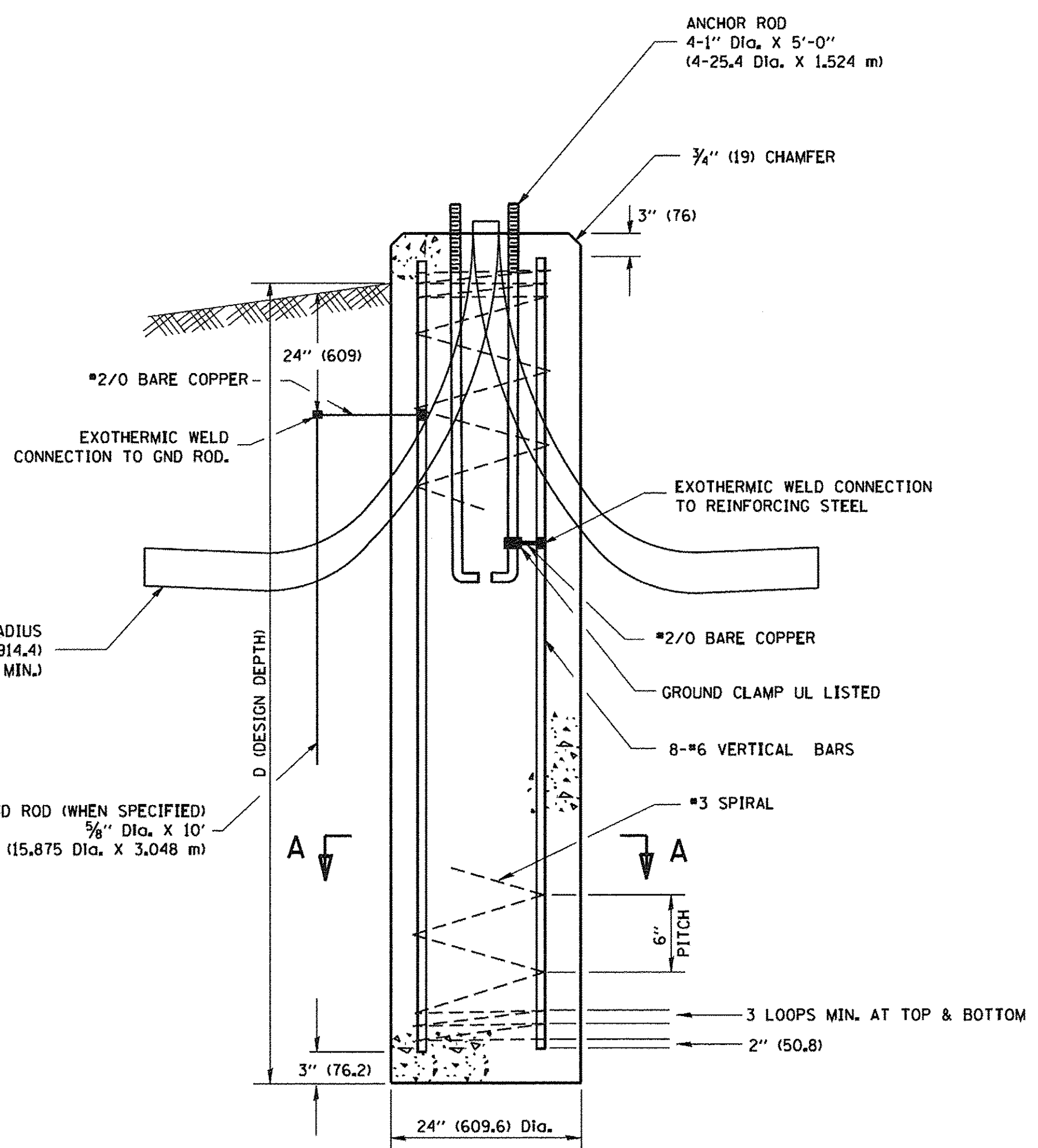


**TOP VIEW**

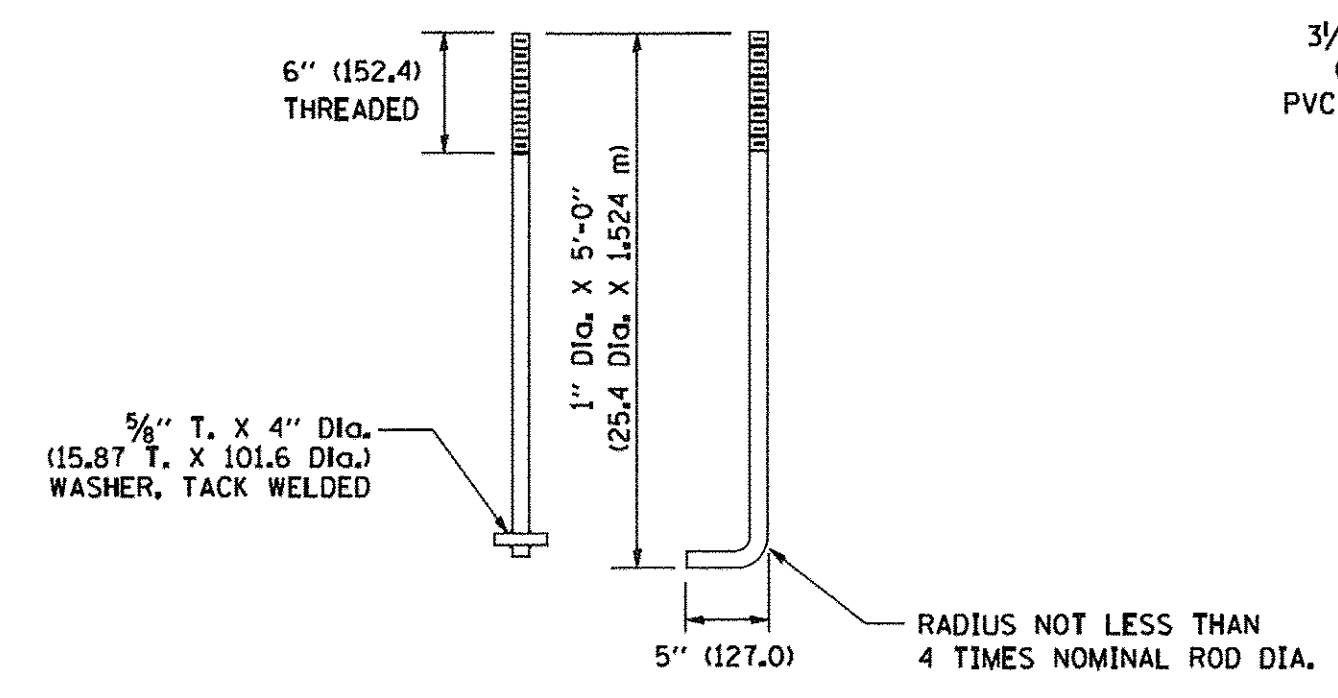
**TOP VIEW**

**NOTES**

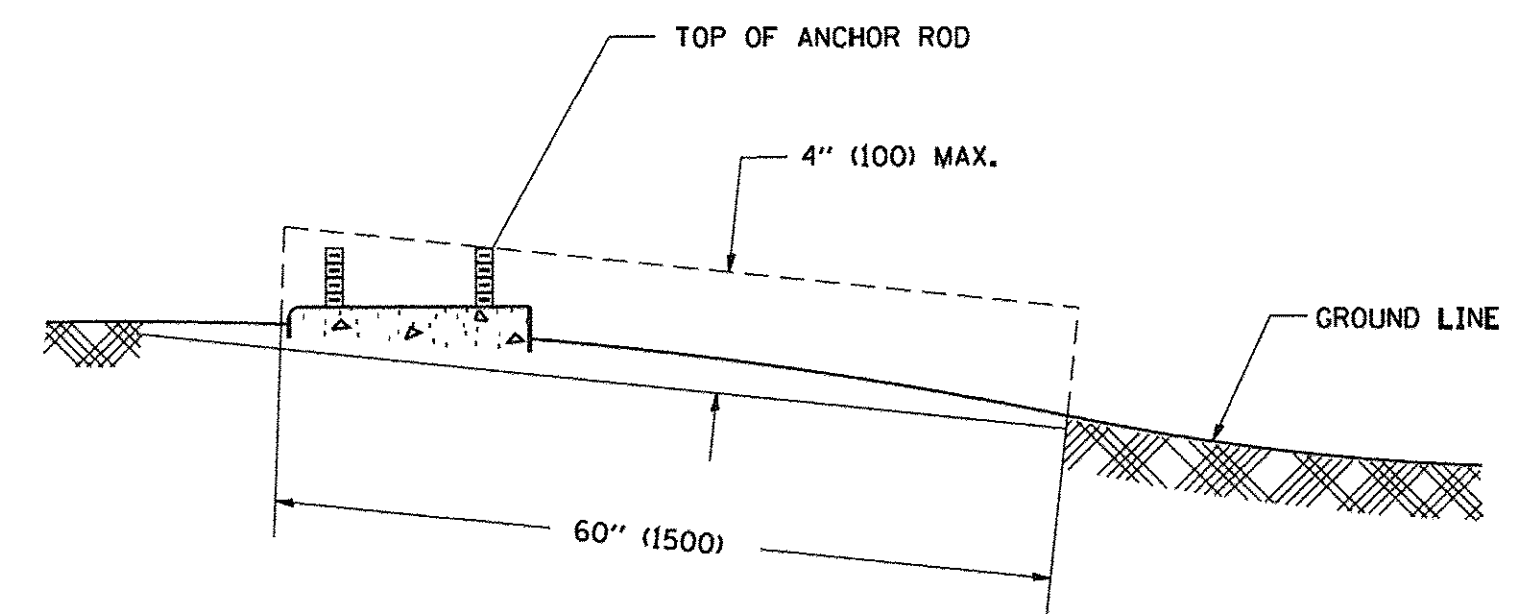
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



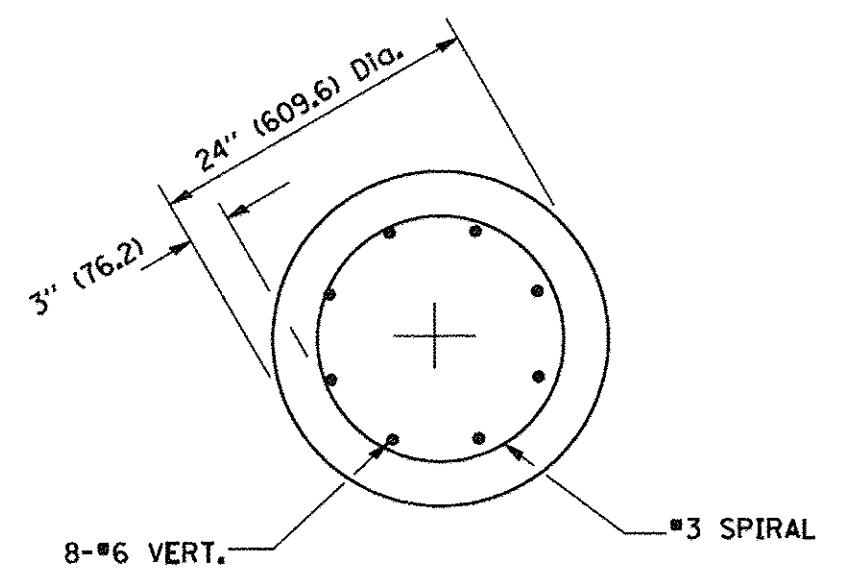
**FOUNDATION DETAIL**



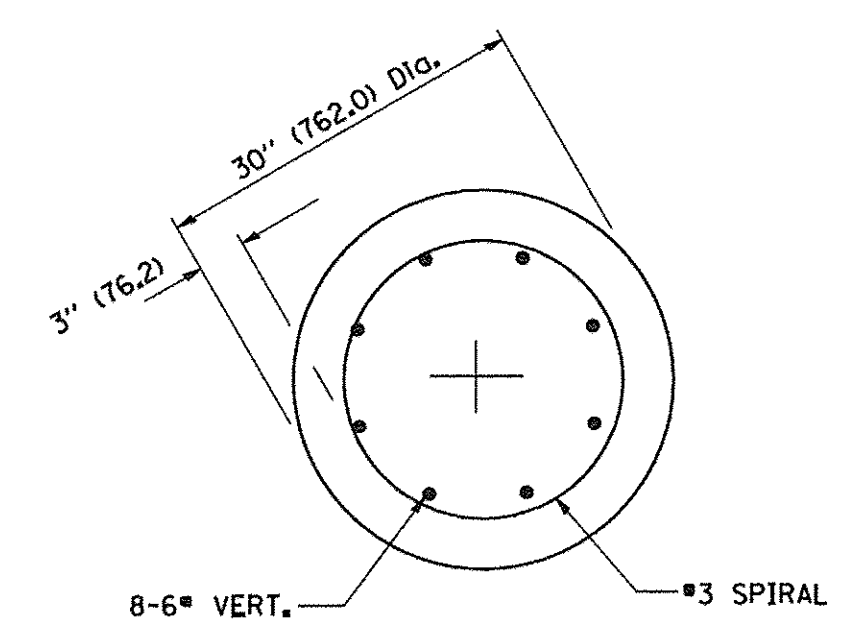
**ANCHOR ROD DETAIL**



**FOUNDATION EXTENSION DETAIL**



**SECTION A-A**



**SECTION A-A**

PLOT DRIVER = #PLTDRVL\$  
PEN TABLE = #PENTBL\$  
FILE NAME = ...N2674.20 Det.06.dgn



|                            |                  |           |
|----------------------------|------------------|-----------|
| USER NAME = sjc            | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20.0000' / 1" | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017      | CHECKED - DNM    | REVISED - |
|                            | DATE - 1/30/2017 | REVISED - |

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

**VILLAGE OF WHEELING**  
**DUNDEE ROAD LIGHTING DETAILS**

SCALE: NONE SHEET 4 OF X SHEETS STA. . TO STA. .

|                           |                        |             |                 |              |
|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 20 |
| CONTRACT NO. 61D73        |                        |             |                 |              |
| ILLINOIS FED. AID PROJECT |                        |             |                 |              |

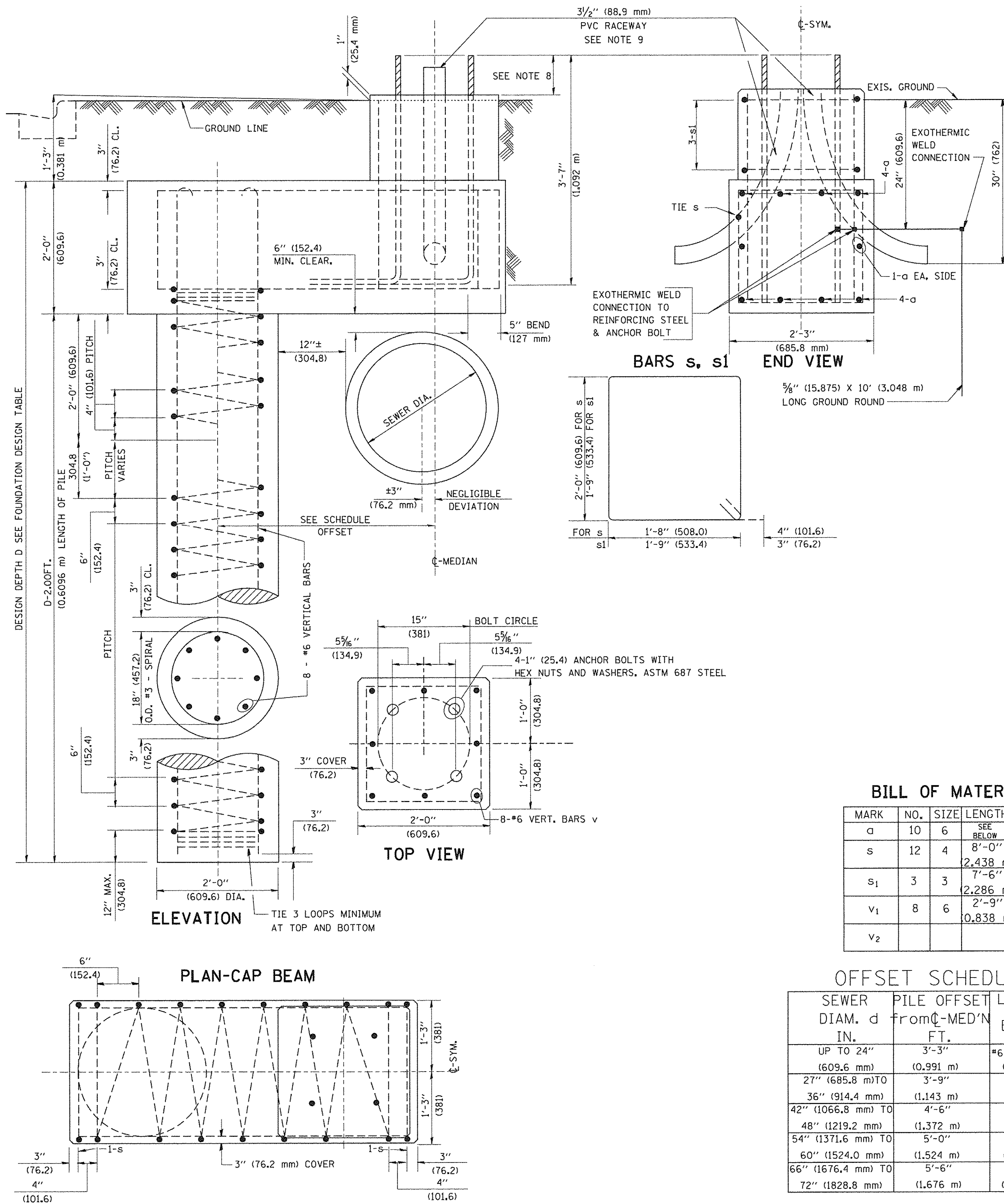


FOUNDATION DESIGN TABLE

| TYPE OF SOIL            | DESIGN DEPTH OF FOUNDATION |                     | REINFORCEMENT IN FOUNDATION |                       |                          |                       |
|-------------------------|----------------------------|---------------------|-----------------------------|-----------------------|--------------------------|-----------------------|
|                         | SINGLE ARM<br>D            | TWIN ARM<br>D       | SINGLE ARM                  |                       | TWIN ARM                 |                       |
|                         |                            |                     | VERT BARS                   | SPIRAL                | VERT BARS                | SPIRAL                |
| SOFT CLAY               | 13'-0"<br>(3,962 m)        | 15'-0"<br>(4,572 m) | 8-#6X12'-6"<br>(3,810 m)    | #3X122'<br>(37,186 m) | 8-#6X14'-3"<br>(4,343 m) | #3X141'<br>(42,977 m) |
| MEDIUM CLAY             | 9'-6"<br>(2,896 m)         | 10'-9"<br>(3,277 m) | 8-#6X9'-0"<br>(2,743 m)     | #3X90'<br>(27,432 m)  | 8-#6X10'-0"<br>(3,048 m) | #3X100'<br>(30,480 m) |
| STIFF CLAY              | 7'-0"<br>(2,134 m)         | 8'-0"<br>(2,438 m)  | 8-#6X6'-6"<br>(1,981 m)     | #3X66'<br>(20,112 m)  | 8-#6X7'-6"<br>(2,286 m)  | #3X76'<br>(23,165 m)  |
| LOOSE SAND              | 9'-0"<br>(2,743 m)         | 10'-0"<br>(3,048 m) | 8-#6X8'-6"<br>(2,591 m)     | #3X85'<br>(25,908 m)  | 8-#6X9'-6"<br>(2,896 m)  | #3X94'<br>(28,651 m)  |
| MEDIUM SAND             | 8'-3"<br>(2,515 m)         | 9'-0"<br>(2,743 m)  | 8-#6X8'-0"<br>(2,438 m)     | #3X78'<br>(23,774 m)  | 8-#6X8'-6"<br>(2,591 m)  | #3X85'<br>(25,908 m)  |
| DENSE SAND              | 7'-9"<br>(2,362 m)         | 9'-0"<br>(2,743 m)  | 8-#6X7'-6"<br>(2,286 m)     | #3X73'<br>(22,250 m)  | 8-#6X8'-6"<br>(2,591 m)  | #3X85'<br>(25,908 m)  |
| ROCK OR SOLIDIFIED SLAG | 5'-0"<br>(1,524 m)         | 5'-0"<br>(1,524 m)  | NONE                        | NONE                  | NONE                     | NONE                  |

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

| MARK | NO. | SIZE | LENGTH             | SHAPE |
|------|-----|------|--------------------|-------|
| a    | 10  | 6    | SEE BELOW          | —     |
| s    | 12  | 4    | 8'-0"<br>(2,438 m) | □     |
| s1   | 3   | 3    | 7'-6"<br>(2,286 m) | □     |
| v1   | 8   | 6    | 2'-9"<br>(0,838 m) | —     |
| v2   |     |      |                    |       |

OFFSET SCHEDULE

| SEWER DIAM. d IN.    | PILE OFFSET FROM C-MED'N FT. | LENGTH OF BAR a FT.  |
|----------------------|------------------------------|----------------------|
| UP TO 24" (609.6 mm) | 3'-3" (0.991 m)              | #6 x 5'-3" (1,600 m) |
| 27" (685.8 mm) TO    | 3'-9" (1,143 m)              | 5'-9" (1,753 m)      |
| 36" (914.4 mm) TO    | 4'-6" (1,372 m)              | 6'-6" (1,981 m)      |
| 42" (1066.8 mm) TO   | 5'-0" (1,524 m)              | 7'-0" (2,134 m)      |
| 48" (1219.2 mm) TO   | 5'-6" (1,676 m)              | 7'-6" (2,286 m)      |
| 54" (1371.6 mm) TO   |                              |                      |
| 60" (1524.0 mm) TO   |                              |                      |
| 66" (1676.4 mm) TO   |                              |                      |
| 72" (1828.8 mm) TO   |                              |                      |

PLOT DRIVER = \$PLTDVLS\$  
PEN TABLE = \$PENTBL\$  
FILE NAME = ...2674.21 Det-07.dgn



|                            |                  |           |
|----------------------------|------------------|-----------|
| USER NAME = sjc            | DESIGNED - SJC   | REVISED - |
| PLOT SCALE = 20.0000' / 1" | DRAWN - SJC      | REVISED - |
| PLOT DATE = 1/30/2017      | CHECKED - DNM    | REVISED - |
|                            | DATE - 1/30/2017 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

VILLAGE OF WHEELING  
DUNDEE ROAD LIGHTING DETAILS

SCALE: NONE SHEET 5 OF X SHEETS STA. TO STA.

|                           |                        |             |                 |              |
|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.P. RTE. 343           | SECTION 13-00080-01-LT | COUNTY COOK | TOTAL SHEETS 23 | SHEET NO. 21 |
| CONTRACT NO. 61D73        |                        |             |                 |              |
| ILLINOIS FED. AID PROJECT |                        |             |                 |              |





