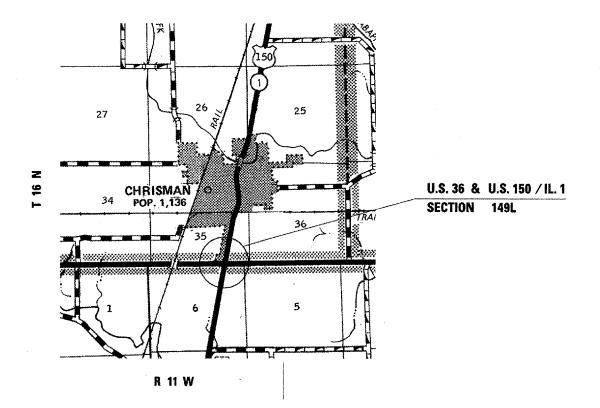
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 323 (U.S. 36)
SECTION 149L
EDGAR COUNTY
C-95-028-07
HIGHWAY LIGHTING MODERNIZATION



D95-028-07



DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DEPUTY DIRECTOR OF DESIGN AND ENVIRONMENT

DEC 7, 20 0 7

Christing M. Reed Re

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
100' — 1"= 30'
50' — 1"= 20'

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.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES SEE SHEET NO. 3

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

PROJECT ENGINEER: SCOTT NEIHART PROJECT MANAGER: ROGER BIGGS

CONTRACT NO. 70656

0

0

0



GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.07

EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL NOTIFY THE DISTRICT OPERATIONS ENGINEER TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES. THE STATE WILL THEN LOCATE AND MARK THE HORIZONTAL LOCATIONS OF THE LINES AND PROVIDE ANY AVAILABLE INFORMATION AS TO THEIR DEPTH. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATING OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G.N.-107.31

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTLILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123. THE FOLLOWING UTILITY OWNERS MARKED WITH AN '*' BELONG TO

Mr. David Pottle

J.U.L.I.E.:

* Ameren-IP (Gas) 1112 W. Anthony Drive P.O. Box 17070

Urbana, IL 61803 (217) 383-7241

Mr. Greg Curtis

* Verizon North Central, Inc. ILL0301

212 E Grove St Rantoul, IL 61866 (217) 892-3359

GENERAL NOTES

- 1. CONTRACTOR SHALL REPLACE POLES AS CLOSE AS POSSIBLE TO THE EXISTING LIGHT POLE LOCATIONS.
- 2. ALL POLES MUST BE LOCATED TO MAINTAIN THE REQUIRED DISTANCE TO THE OVERHEAD POWERLINES.
- 3. PROPOSED LIGHTING CONTROLLER AND FLASHING BEACON CONTROLLER ARE TO BE HOUSED IN THE SAME CABINET.

Mr. Steve Estes * Ameren-IP (Electric) 1112 West Anthony Drive P.O. Box 17070 Urbana, IL 61803-7070 (217) 383-7304

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

LIST OF STANDARDS

STANDARD NO. DESCRIPTION

000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001001-01 AREAS OF REINFORCEMENT BARS 001006 DECIMAL OF AN INCH AND OF A FOOT

701006-02 TRAFFIC CONTROL 701301-02 TRAFFIC CONTROL 701701-05 TRAFFIC CONTROL

701901 TRAFFIC CONTROL DEVICES

INDEX OF SHEETS

COVER SHEET

GENERAL NOTES, INDEX OF SHEETS & STANDARDS IN THE PLANS

SUMMARY OF QUANTITIES

LIGHTING PLAN SHEET

BILL OF MATERIALS, DETAILS

DETAIL SHEETS

FILE NAME

REVISED - ___ USER NAME = collierbe DESIGNED ORAWN REVISED PLOT SCALE = 40.0000 '/ IN CHECKED -REVISED PLOT DATE = 10/25/2007 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **GEN. NOTES, INDEX, STANDARDS** EDGAR 9 2 CONTRACT NO. 70656 SCALE: _____ SHEET NO. _ OF __ SHEETS STA. ____ TO STA. ____

70656

SUMMARY OF QUANTITIES

LOCATION OF WORK:

U.S. 36 & U.S. 150 / IL 1

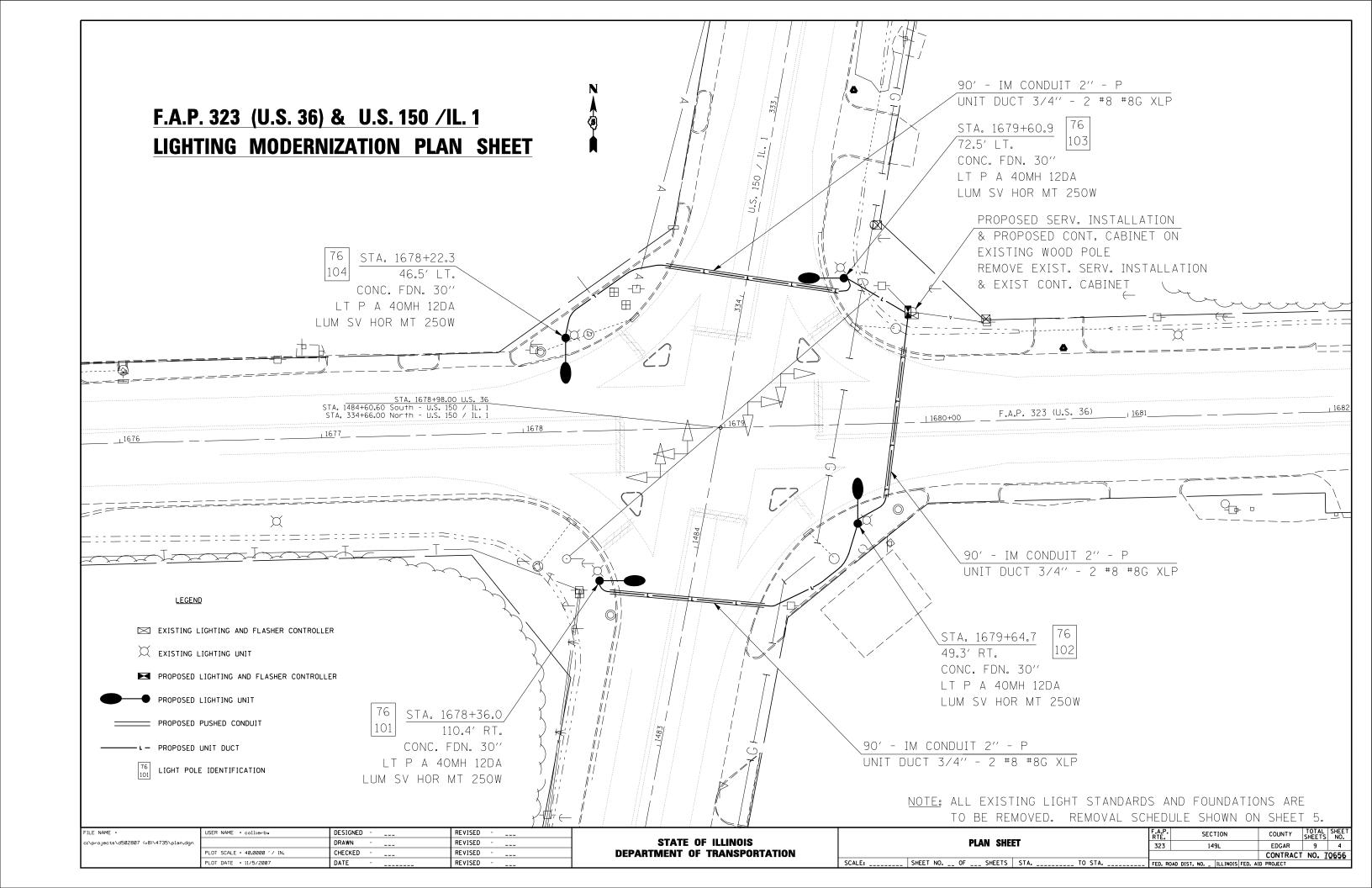
Edgar County Highway Lighting 100% State

CONSTRUCTION TYPE CODE:

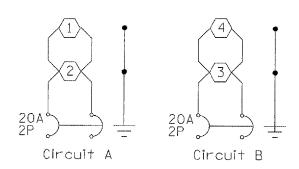
Y030-1E

| CODE NO | ITEM | UNIT | TOTAL QUANTITY |
|-----------------------------------|--|----------------------|---------------------|
| 67100100 | MOBILIZATION | L SUM | 1.0 |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1.0 |
| 80400100 | ELECTRIC SERVICE INSTALLATION | EACH | 1.0 |
| 81020500 | CONDUIT PUSHED, 2" DIA., INTERMEDIATE METAL | FOOT | 270.0 |
| 81603000 | UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE | FOOT | 544.0 |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 244.0 |
| 82102250 | LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT | EACH | 4.0 |
| 83002500 | LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. DAVIT ARM | EACH | 4.0 |
| 83600300 | LIGHT POLE FOUNDATION, 30" DIAMETER | FOOT | 24.0 |
| 83800505 \$4200500 84200600 | BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE | EACH EACH EACH | 16.0 2.0 10.0 |
| 84200800 | POLE FOUNDATION, REMOVED | EACH | 12.0 |
| 84500110 | REMOVAL OF LIGHTING CONTROLLER | EACH | 1.0 |
| 84500120 | REMOVAL OF ELECTRIC SERVICE INSTALLATION | EACH | 1.0 |
| X8250207 | LIGHTING CONTROLLER PHOTOCELL RELAY, SPECIAL | EACH | 1.0 |
| | | | |

| FILE NAME = | USER NAME = collierby | DESIGNED - | REVISED - | | T | | ····· | | | F.A.P. S | ECTION | COUNTY | TOTAL | SHEET |
|--|------------------------------|------------|-----------|------------------------------|--------|--------------|----------|----------|---------|---------------------|-----------------|------------|--------|-------|
| c:\projects\d502807 {v8}\4735\plan.dgn | | DRAWN - | REVISED - | STATE OF ILLINOIS | | SUMMA | RY OF QU | ANTITIES | | 323 | 1491 | EDGAR | SHEETS | NO. |
| | PLOT SCALE = 40.0000 ' / IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | CONTRACT | T NO. 7 | 70656 | | |
| | PLOT DATE = 10/24/2007 | DATE - | REVISED - | | SCALE: | SHEET NO. OF | SHEETS | STA. | TO STA. | FEO. ROAD DIST. NO. | ILLINOIS FED. A | ID PROJECT | - | |



<u>CIRCUIT DETAIL</u>



All wire size is #8 copper

REMOVE EXIST LIGHTING UNIT - NO SALVAGE

REMOVE EXIST LIGHTING UNIT - SALVAGE

| | LOCATION | E | CH | | LOCATION | | EACH |
|---|--------------------------|------|------|---|---------------------------------------|---|--------|
| | N. APPROACH | | | | S. APPROACH | | |
| | STA. 334+33,4 79,4' RT. | | Í | * | | | 1 |
| * | STA, 332+54.1 37.3' RT. | | I | | · · · · · · · · · · · · · · · · · · · | | • |
| * | STA. 330+24.8 37.0' RT. | | I | | W. APPROACH | | |
| | | | | | STA. 1678+35,2 69,4' RT. | | 1 |
| | E. APPROACH | | | | | | |
| | STA. 1679+59.3 77.7' LT. | | l | | TOTAL | = | 2 EACH |
| | STA. 1681+25.8 40.1 LT. | | | | | | |
| * | STA, 1683+96.7 35.9' LT. | | 1 | | | | |
| | | | | | | | |
| | S. APPROACH | | | | | | |
| * | STA. 1481+95.9 38.8' RT. | | | | | | |
| | STA. 1484+28.9 79.6' RT. | • | | | | | |
| | | | | | | | |
| | W. APPROACH | | | | | | |
| # | STA. 1674+03.2 35.6' RT. | • | | | | | |
| | STA. 1676+76.7 40.8' RT. | - | | | | | |
| | | | | | | | |
| | TOTAL | = 1(| EACH | | | | |

* EXISTING LIGHTING UNIT NOT SHOWN ON PLAN SHEET.

BILL OF MATERIALS

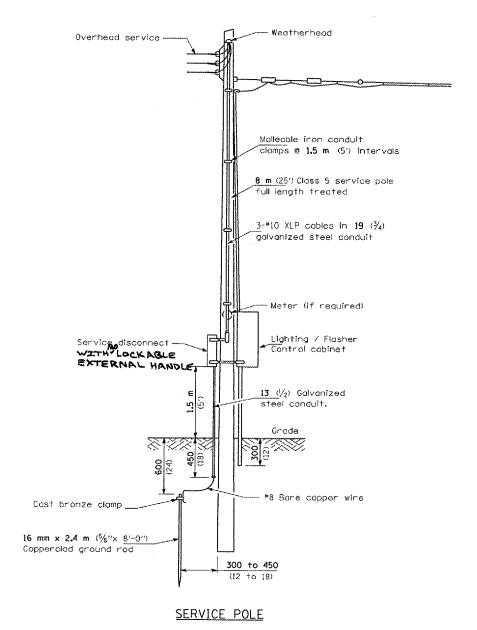
U.S. 36 & U.S. 150 / IL 1

| ITEM | UNIT | QUAN | TITY |
|---|--------------|------|------------------|
| ELECTRIC SERVICE INSTALLATION CONDUIT PUSHED, 2" DIA., INTERMEDIATE METAL | EACH FOOT | | 1 27 0 |
| UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. Paky | ETHYLENE | FOOT | 544 |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | | 244 |
| LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT | EACH | | 4 |
| LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. DAVIT ARM | EACH | | 4 |
| LIGHT POLE FOUNDATION, 30" DIAMETER | FOOT | | 24 |
| BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN | EACH | | 16 |
| REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE | EACH | | 2 |
| REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE | EACH | | 10 |
| POLE FOUNDATION, REMOVED | EACH | | 12 |
| REMOVAL OF LIGHTING CONTROLLER | EACH | | 1 |
| REMOVAL OF ELECTRIC SERVICE INSTALLATION | EACH | | 1 |
| LIGHTING CONTROLLER PHOTOCELL RELAY, SPECIAL | EACH | | 1 |

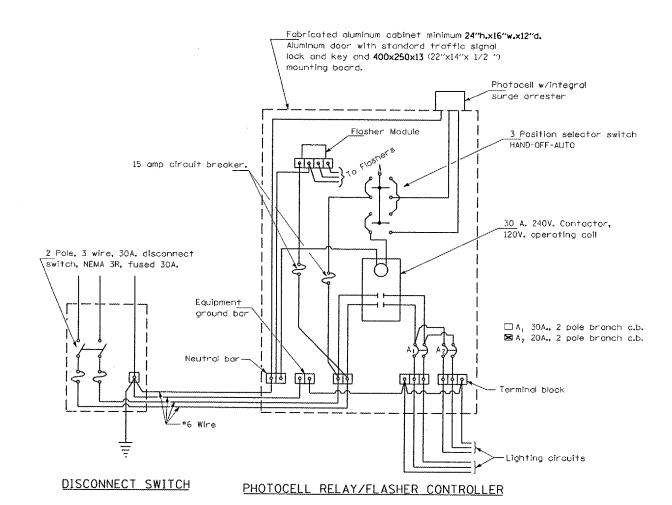
| FILE NAME : | USER NAME = collierby | DESIGNED - | | REVISED ~ | |
|--|-----------------------------|------------|---------|-----------|---|
| c:\projects\d502807 {v8!\4735\pian.dgn . | | DRAWN - | W 40 As | REVISED - | |
| | PLOT SCALE = 40.0000 1/ IN. | CHECKED - | *** | REVISED - | w |
| | PLOT DATE = 11/6/2007 | DATE ~ | | REVISED - | |

| STATI | E OF | LLINOIS |
|------------|------|----------------|
| DEPARTMENT | OF | TRANSPORTATION |

| | DETAILS BUT OF SEATERIALS | F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEET NO. |
|---|--------------------------------------|----------------|--------------------------------|----------|-------|--------------|
| | DETAILS, BILL OF MATERIALS | 323 | 149L | EDGAR | 9 | 5 |
| - | SCALE1 SHEET NO OF SHEETS STA TO STA | FED. RO | DAD DIST, NO ILLINOIS FED. A | CONTRACT | NO. 1 | Q656 |



NOTE: Flashing Beacon components shall be installed per standard 880001.

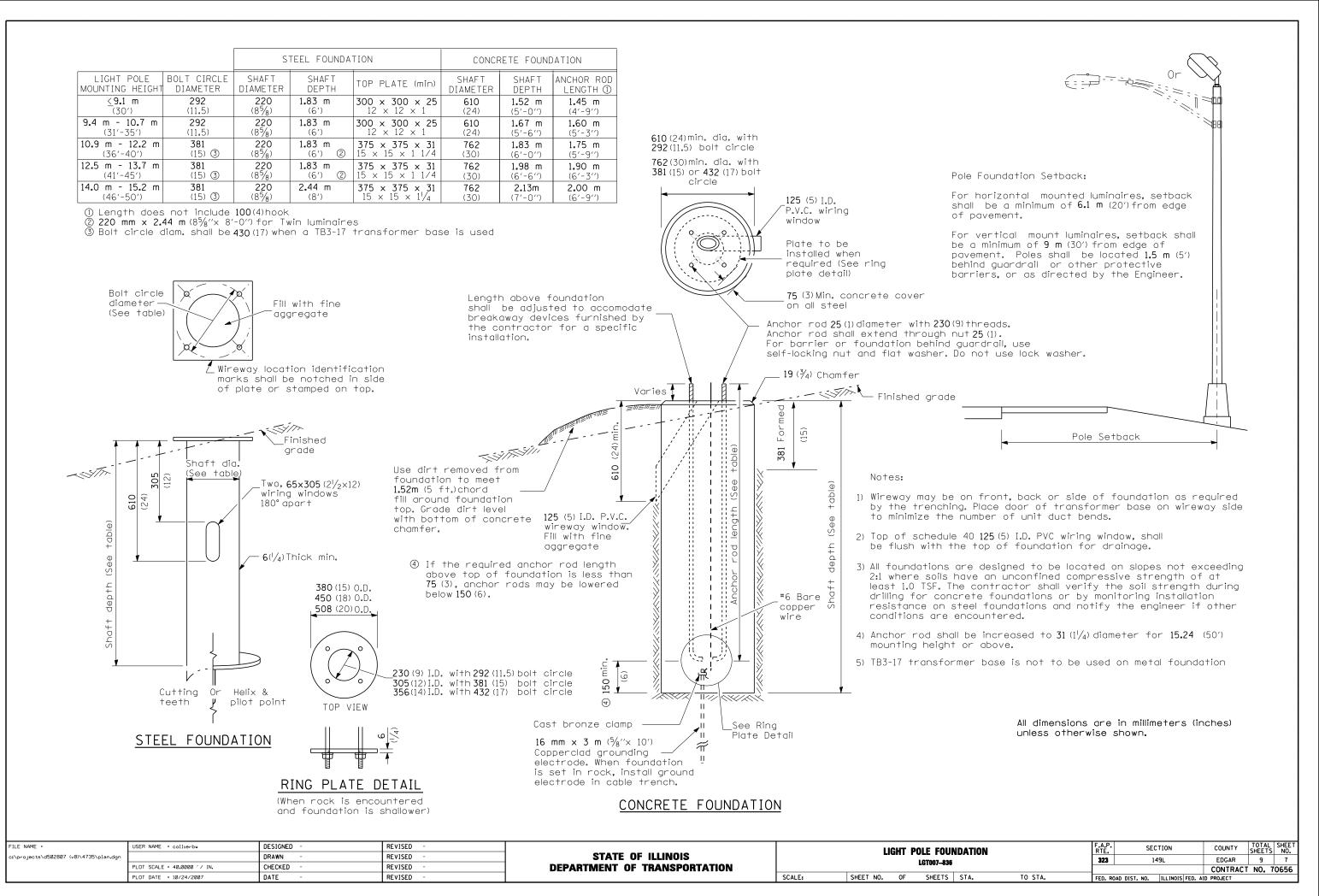


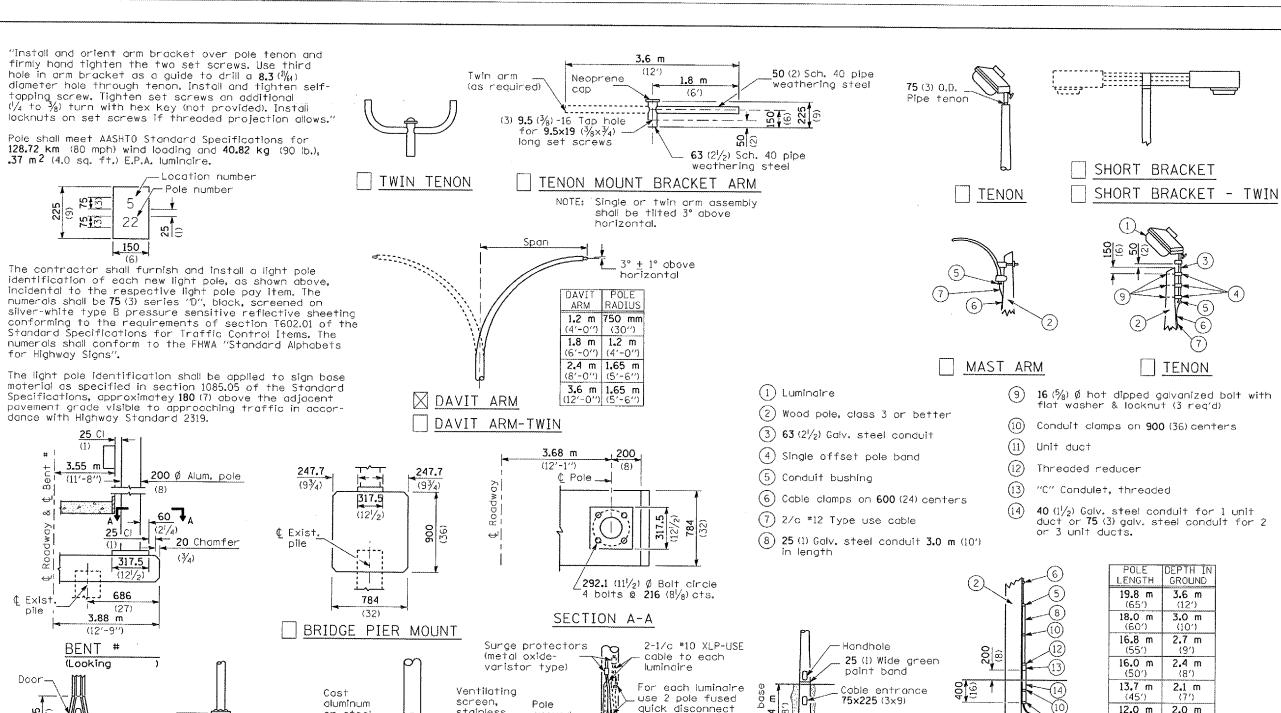
GENERAL NOTES

ALL EQUIPMENT SHALL BE U.L. LISTED.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

| | T | | | | | | | | |
|--|-----------------------------|------------|--|---------------------------------|---|-----------------|---|------------|--------|
| FILE NAME = | USER NAME = collierby | DESIGNED - | REVISED - | | | F.A.P. | *************************************** | T | TOTAL |
| c:\projects\d502807 (v8)\4735\plan.dgn | | DRAWN - | REVISED - | STATE OF ILLINOIS | CONTROL INSTALLATION SERVICE POLE MOUNTED | RTE. | SECTION | COUNTY | SHEETS |
| | PLOT SCALE = 40,0000 '/ IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | 120240V., 1 PHASE, 3 WIRE SERVICE | 323 | 149L | EDGAR | 9 |
| | PLOT DATE = 10/24/2007 | DATE - | REVISED - | DEL MINISTER OF THEMOSOTICATION | SCALE: SHEET NO. OF SHEETS STA. TO STA. | | 7 | CONTRACT | NO. 7 |
| | | | ······································ | <u> </u> | 1 3 1 | FED. ROAD DIST. | NO. ILLINOIS FED. A | ID PROJECT | |





stainless

steel

BREAKAWAY COUPLING

ground

lug

METAL

or steel.

couplings

See pole

foundation

sheet for

details

TRANSFORMER BASE

FRANGIBLE

75×225 (3×9) Grade 8 stone for fiberglass BUTT BASE

GROUND **3.6 m** (12') 3.0 m (101) 2.7 m (9′) 2.4 m 2.1 m 12.0 m 2.0 m (40') (6.5')10.7 m 1.8 m (351) (6') 9.0 m 1.7 m (5.5') (30')

POLE, WOOD

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

POLE STANDARDS

| | ····· | | | |
|---|--|-----------------------------|------------|-----------|
| | FILE NAME = | USER NAME = collierbw | DESIGNED - | REVISED - |
| | c:\projects\d502807 (v8)\4735\plan.dgn | | DRAWN - | REVISED - |
| i | | PLOT SCALE = 40,0000 1/ IN. | CHECKED - | REVISED - |
| ı | | PLOT DATE = 10/24/2007 | DATE - | REVISED - |

STAINLESS STEEL

FLAIR BASE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ANCHOR

Details for underground distribution if required

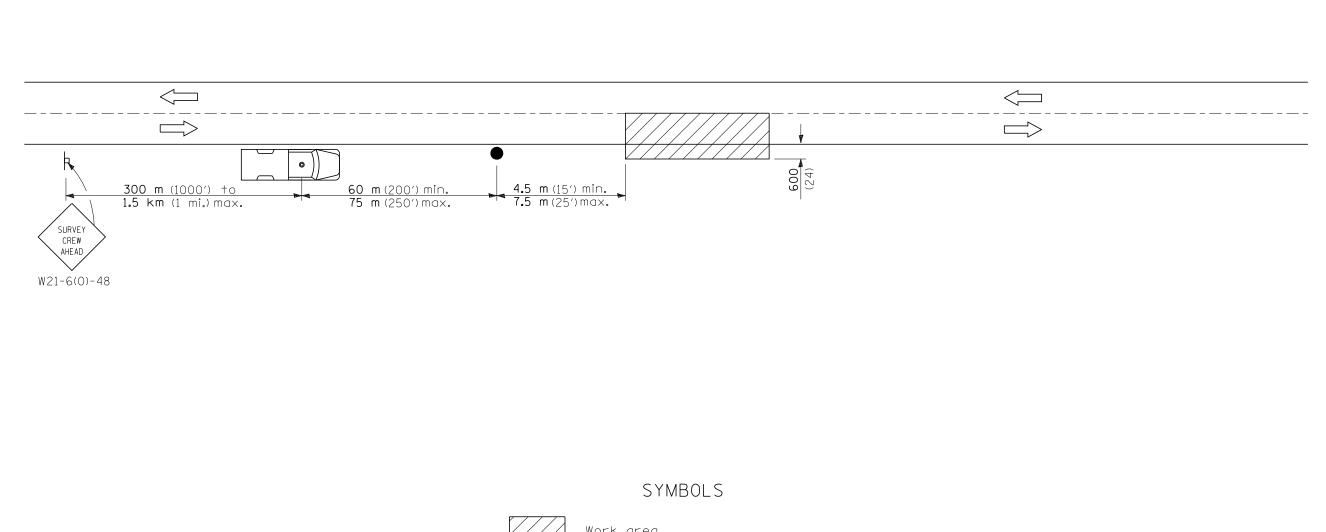
unless single

pole type is

X CONCRETE

specified

| | ······································ | POL | E STANDA | ARDS | | F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEET NO. | | | | | | |
|--------|--|-----|------------|------|---------|---|-------------------|--------|-------|--------------|--|--|--|--|--|--|
| | | | LGT008.M32 | 323 | 149L | EDGAR | 9 | 8 | | | | | | | | |
| | | | | | | | CONTRACT NO. 7065 | | | | | | | | | |
| SCALE: | SHEET NO. | OF | SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | | | | |



Work area

Sign on portable or permanent support

TYPICAL APPLICATIONS

Utility operations

Truck with flashing amber light and dual emergency flashers

• Flagger with traffic control sign

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

| FILE NAME = | USER NAME = collierbw | DESIGNED - | REVISED - | | DETAIL FOR NIGHTTIME LIGHTING INSPECTION | | | | F.A.P. | SECTION | COUNTY | TOTAL | | |
|--|-----------------------------|------------|-----------|------------------------------|--|---------|----------------|-----------------------|--------|---------|--------|---------|-------|------|
| c:\projects\d502807 (v8)\4735\plan.dgn | | DRAWN - | REVISED - | STATE OF ILLINOIS | DETAIL FOR NIGHTTIME LIGHTING INSPECTION | | | PECTION | 323 | 149L | EDGAR | 9 | 9 | |
| | PLOT SCALE = 40.0000 '/ IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | | | CONTRAC | T NO. | 0656 |
| | PLOT DATE = 10/24/2007 | DATE - | REVISED - | | SCALE: SHEET NO. OF SHEETS STA. TO STA. | TO STA. | FED. ROAD DIST | . NO. ILLINOIS FED. A | | | | | | |