



06-13-14 LETTING ITEM 026

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

**VARIOUS LOCATIONS IN NORTH COOK COUNTY #8  
LIGHT EMITTING DIODE (LED) INSTALLATION  
SECTION 2014-007TS  
COOK COUNTY**

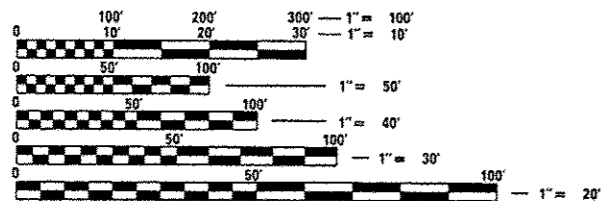
| F.A. RTE. | SECTION    | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-----------|------------|----------|--------------------|-----------|
|           | 2014-007TS | COOK     | 88                 | 1         |
|           |            | ILLINOIS | CONTRACT NO. 60X82 |           |

FOR INDEX OF SHEETS, SEE SHEET NO. 2

|  |   |
|--|---|
|  |   |
|  | BRIAN K. SCIFERS<br>REGISTRATION NO. 062-054567<br>DATE: 3/24/2014<br>EXPIRES: 11-30-2015 |

**STANDARDS**

- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701101-04 OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701701-09 URBAN LANE CLOSURE MULTILANE INTERSECTION
- 701901-03 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAIL
- 720006-04 SIGN PANEL ERECTION DETAILS
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS



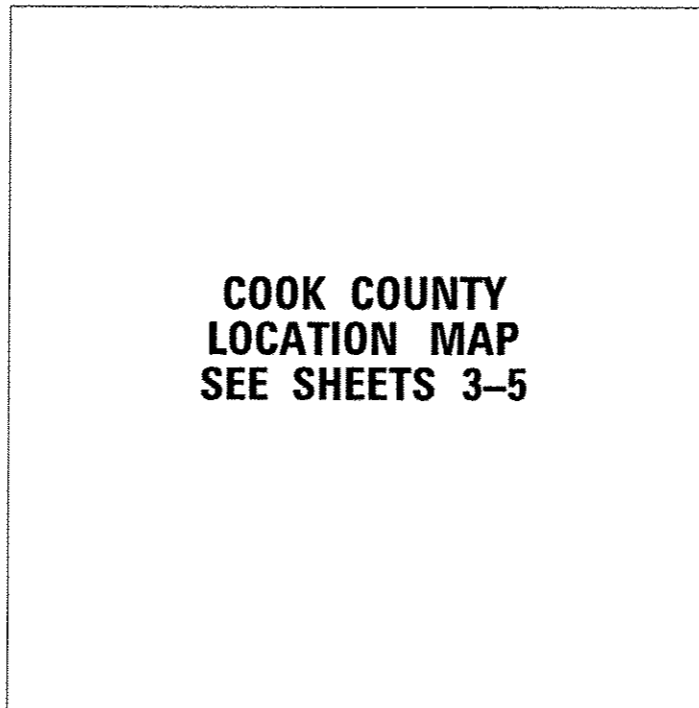
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: SUDUD MAHMOUD  
PROJECT MANAGER: DARYLE DREW

CONTRACT NO. 60X82

C-91-222-14



D-91-222-14



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED: March 29, 2014

John F. Johnson, PE  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9, 2014  
John D. Baranzolo, PE  
ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2014  
Omur Osman, PE  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**



# INDEX OF SHEETS

| PAGE # | DESCRIPTION                     |
|--------|---------------------------------|
| 1      | COVER PAGE                      |
| 2      | INDEX OF SHEETS & GENERAL NOTES |
| 3-5    | LOCATION MAP                    |
| 6      | 500 HEADINGS                    |
| 7-11   | 500 SHEETS                      |
| 12-18  | IDOT TS DETAILS                 |

| PAGE # | TS#   | INTERSECTION NAME                             | PAGE # | TS#   | INTERSECTION NAME                               |
|--------|-------|---|--------|-------|---|
| 19     | 65    | I 94/EDENS EXPY/ESTES @ IL 50/CICERO AVE      | 53     | 9190  | IL 171/CUMBERLAND AVE @ TOUHY AVE               |
| 20     | 5835  | TOUHY AVE @ KOSTNER AVE                       | 54     | 9185  | CUMBERLAND AVE @ TALCOTT AVE                    |
| 21     | 5825  | TOUHY AVE @ CRAWFORD AVE                      | 55     | 9180  | CUMBERLAND AVE @ GRANVILLE                      |
| 22     | 5477  | MCCORMICK BLVD @ NORTHEAST PKWY               | 56     | 5830  | TOUHY AVE @ DEE RD                              |
| 23     | 5047  | US 41/LINCOLN @ FIRE STATION EXIT             | 57     | 5815  | TALCOTT AVE @ TOUHY AVE                         |
| 24     | 4910  | CRAWFORD AVE @ DEVON AVE                      | 58     | 5810  | DEE RD @ TALCOTT AVE                            |
| 25     | 2625  | IL 50/CICERO AVE @ TOUHY AVE                  | 59     | 5535  | OAKTON ST @ FLORENCE                            |
| 26     | 2605  | IL 50/CICERO AVE @ PRATT AVE                  | 60     | 5510  | NORTHWEST HWY @ POTTER RD                       |
| 27     | 2590  | IL 50/CICERO AVE @ DEVON AVE                  | 61     | 5505  | NORTHWEST HWY @ OAKTON ST                       |
| 28     | 20395 | MCCORMICK BLVD @ LINCOLNWOOD TOWN CENTER      | 62     | 4955  | CUMBERLAND AVE @ DEVON AVE                      |
| 29     | 20345 | TOUHY AVE @ LINCOLNWOOD TOWN CENTER           | 63     | 4260  | CANFIELD @ TALCOTT AVE                          |
| 30     | 1617  | IL 72/TOUHY AVE @ KILBOURNE AVE               | 64     | 4255  | CANFIELD @ DEVON AVE                            |
| 31     | 1610  | US 41/LINCOLN @ PRATT                         | 65     | 4245  | BUSSE RD @ POTTER RD                            |
| 32     | 1545  | US 41/LINCOLN @ KOSTNER                       | 66     | 4146  | BALLARD RD @ NESSET RD                          |
| 33     | 1505  | US 41/LINCOLN @ DEVON AVE                     | 67     | 4145  | BALLARD RD @ DEE RD                             |
| 34     | 1500  | US 41/LINCOLN HWY @ CRAWFORD AVE              | 68     | 4125  | ALCONQUIN RD @ OAKTON ST                        |
| 35     | 12090 | TOUHY AVE @ BARCLAY PL/HYATT DR               | 69     | 3300  | IL 72/HIGGINS RD @ CANFIELD RD                  |
| 36     | 11185 | DEVON AVE @ KENTON AVE/LEMONT                 | 70-72  | 3280  | BUSSE HWY @ OAKTON ST                           |
| 37     | 2435  | IL 43/WAUKEGAN RD @ WINNETKA RD               | 73     | 22150 | DEVON AVE @ GREENWOOD AVE                       |
| 38     | 2406  | IL 43/WAUKEGAN RD @ TECHNY RD/FOUNDERS DR     | 74     | 1305  | US 14/CALDWELL AVE @ TOUHY AVE                  |
| 39     | 14485 | WINNETKA RD @ HIBBARD                         | 75     | 1275  | US 14/DEMPSTER ST @ POTTER RD                   |
| 40     | 14467 | WILLOW RD @ LAGOON DR                         | 76     | 1240  | US 14/DEMPSTER ST @ LUTHER LN                   |
| 41     | 9255  | TOUHY AVE @ WASHINGTON ST                     | 77     | 1213  | US 14/DEMPSTER ST @ WESTERN AVE                 |
| 42     | 9250  | US 14/NORTHWEST HWY @ PROSPECT AVE PARK RIDGE | 78     | 1210  | US 14/DEMPSTER ST @ GREENWOOD AVE               |
| 43     | 9247  | US 14/NORTHWEST HWY @ SUMMIT                  | 79     | 1205  | US 14/DEMPSTER ST @ DEE RD                      |
| 44     | 9245  | COURTLAND/TALCOTT AVE @ DEVON AVE             | 80     | 11695 | US 14/NORTHWEST HWY @ ELM ST                    |
| 45     | 9240  | BUSSE HWY @ MEACHAM TOUHY PARK RIDGE          | 81     | 5950  | WOLF RD @ WILLOW/OLD WILLOW RD                  |
| 46     | 9235  | BUSSE HWY @ GREENWOOD AVE                     | 82     | 5944  | WOLF RD @ EDWARD RD                             |
| 47     | 9230  | TOUHY AVE @ WESTERN AVE                       | 83     | 419   | US 12/RAND RD @ OLIVE                           |
| 48     | 9222  | TOUHY AVE @ SUMMIT                            | 84     | 3540  | IL 83/ELMHURST RD @ WILLOW RD                   |
| 49     | 9220  | NORTHWEST HWY @ WASHINGTON ST                 | 85-86  | 3485  | IL 83/ELMHURST RD @ PALATINE RD                 |
| 50     | 9215  | NORTHWEST HWY @ MEACHAM AVE                   | 87     | 1745  | US 45-IL 21/MILWAUKEE AVE @ PALATINE SOUTH RAMP |
| 51     | 9210  | GREENWOOD AVE @ TOUHY AVE                     | 88     | 1740  | US 45-IL 21/MILWAUKEE AVE @ PALATINE NORTH RAMP |
| 52     | 9205  | GREENWOOD AVE @ TALCOTT AVE                   |        |       |   |

## GENERAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; ADOPTED JANUARY 1, 2014 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO; IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISIONS SHALL APPLY. ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, AND IDOT.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL NOTIFY THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT OR THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS SIGNAL POST, UNINTERRUPTIBLE POWER SUPPLY ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES, AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES, AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800)892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

AT LOCATIONS ON THE PLANS WHERE TRAFFIC SIGNAL POST REMOVAL AND NEW TRAFFIC SIGNAL POST INSTALLATIONS ARE SPECIFIED, THE CONTRACTOR SHALL INSPECT THE EXISTING POST FOUNDATIONS. PRIOR TO REMOVING THE EXISTING TRAFFIC SIGNAL POST TO BE REPLACED, THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING ANCHOR BOLT IS ACCEPTABLE FOR REUSE WITH A NEW POST. IF THE EXISTING ANCHOR BOLT CONDITION IS NOT ACCEPTABLE, THE CONTRACTOR SHALL REPLACE ANCHOR BOLT AS DIRECTED BY THE ENGINEER. ANCHOR BOLT REPLACEMENT WILL BE PAID FOR AS "REMOVE AND REPLACE ANCHOR BOLTS". "REMOVE AND REPLACE ANCHOR BOLTS" PAY ITEM QUANTITIES SHOWN ARE NOMINAL AND ONLY TO BE UTILIZED AS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL RELOCATE ANY EXISTING SIGN PANELS, INCLUDING BLANK OUT SIGNS, FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POST AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.

CONTRACTOR SHALL REPLACE METAL MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS WITH NEW POLYCARBONATE BRACKETS OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD, LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS.

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

A CONCRETE APRON SHALL NOT BE REQUIRED FOR NEW UPS INSTALLATIONS ADJACENT TO EXISTING IMPERVIOUS SURFACES THAT SATISFY THE NEED OF THE CONCRETE APRON, AS DIRECTED BY THE ENGINEER.

FOR TS 5505 LOCATION, DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE CITY OF PARK RIDGE AND RED SPEED, LLC PRIOR TO THE START OF CONSTRUCTION. THE CITY OF PARK RIDGE AND RED SPEED, LLC SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

CITY OF PARK RIDGE  
505 BUTLER PLACE  
PARK RIDGE, IL 60068-4182  
(847) 318-5200

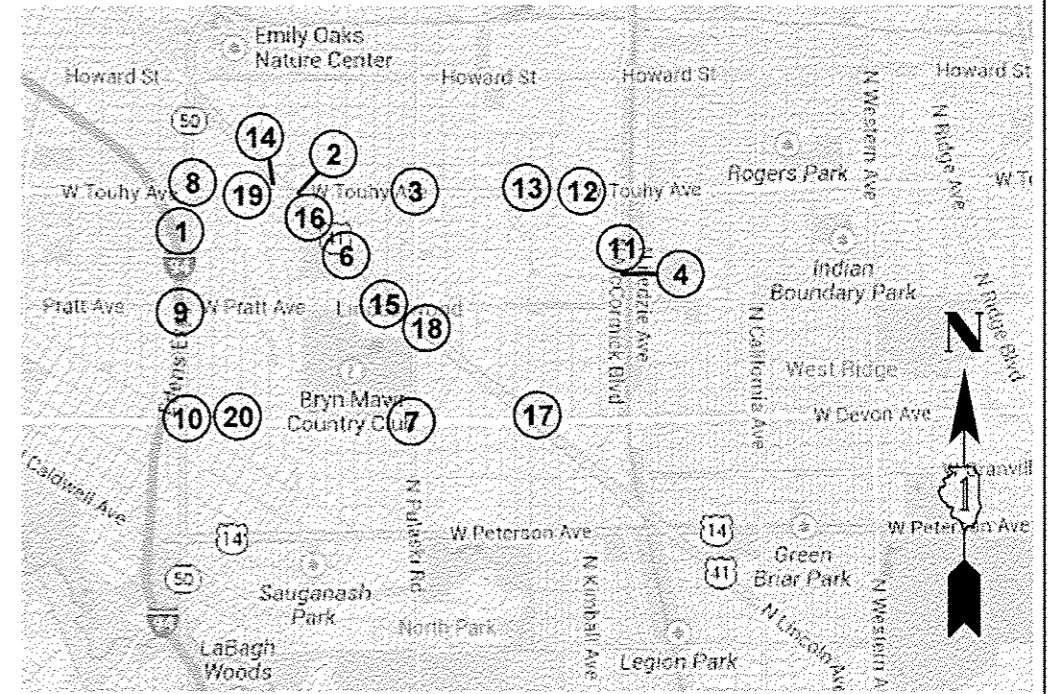
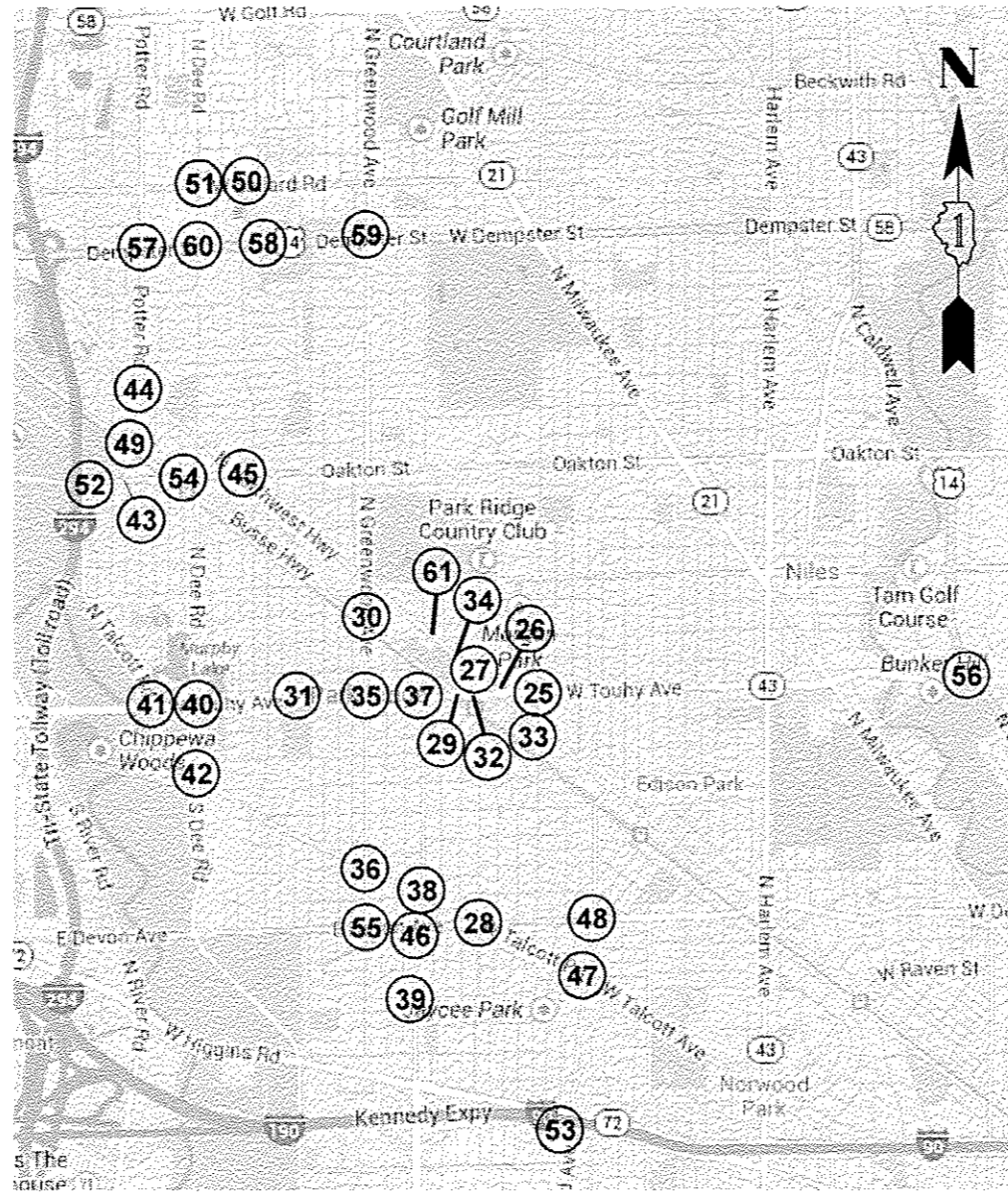
RED SPEED, LLC.  
400 EISENHOWER LANE  
LOMBARD, ILLINOIS 60140

FOR TS 1745 LOCATION, DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE CITY OF PROSPECT HEIGHTS PRIOR TO THE START OF CONSTRUCTION. THE CITY OF PROSPECT HEIGHTS SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

CITY OF PROSPECT HEIGHTS  
8 N. ELMHURST ROAD  
PROSPECT HEIGHTS, IL 60070  
(847) 398-6070

|                                     |                             |                |           |   |  |       |    |        |           |         |        |                           |           |
|-------------------------------------|-----------------------------|----------------|-----------|---|--|-------|----|--------|-----------|---------|--------|---------------------------|-----------|
| FILE NAME = 0160X82-shr-gennote.dgn | USER NAME = SJohnson        | DESIGNED - BKS | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>INDEX OF SHEETS AND GENERAL NOTES</b> |       |    |        | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS              | SHEET NO. |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - SVJ    | REVISED - |   | SCALE:                                   | SHEET | OF | SHEETS | STA.      | TO      | STA.   | 88                        | 2         |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS  | REVISED - |   |  |       |    |        |           |         |        | CONTRACT NO. 60X82        |           |
|                                     |                             | DATE -         | REVISED - |   |  |       |    |        |           |         |        | ILLINOIS/FED. AID PROJECT |           |

| LOC # | TS #     | INTERSECTION                                    |
|-------|----------|---|
| 1     | TS 65    | I 94/EDENS EXPY/ESTES @ IL 50/CICERO AVE        |
| 2     | TS 5835  | TOUHY AVE @ KOSTNER AVE                         |
| 3     | TS 5825  | TOUHY AVE @ CRAWFORD AVE                        |
| 4     | TS 5477  | MCCORMICK BLVD @ NORTHEAST PKWY                 |
| 5     | -        | NOT USED  |
| 6     | TS 5047  | US 41/LINCOLN @ FIRE STATION EXIT               |
| 7     | TS 4910  | CRAWFORD AVE @ DEVON AVE                        |
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| 9     | TS 2605  | IL 50/CICERO AVE @ PRATT AVE                    |
| 10    | TS 2590  | IL 50/CICERO AVE @ DEVON AVE                    |
| 11    | TS 20395 | MCCORMICK BLVD @ LINCOLNWOOD TOWN CENTER        |
| 12    | TS 20345 | TOUHY AVE @ LINCOLNWOOD TOWN CENTER             |
| 13    | TS 20341 | TOUHY AVE @ LAWNDALE AVE                        |
| 14    | TS 1617  | IL 72/TOUHY AVE @ KILBOURNE AVE                 |
| 15    | TS 1610  | US 41/LINCOLN @ PRATT                           |
| 16    | TS 1545  | US 41/LINCOLN @ KOSTNER                         |
| 17    | TS 1505  | US 41/LINCOLN @ DEVON AVE                       |
| 18    | TS 1500  | US 41/LINCOLN HWY @ CRAWFORD AVE                |
| 19    | TS 12090 | TOUHY AVE @ BARCLAY PL/HYATT DR                 |
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| 43    | TS 5535  | OAKTON ST @ FLORENCE                            |
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| 51    | TS 4145  | BALLARD RD @ DEE RD                             |
| 52    | TS 4125  | ALGONQUIN RD @ OAKTON ST                        |
| 53    | TS 3300  | IL 72/HIGGINS RD @ CANFIELD RD                  |
| 54    | TS 3280  | BUSSE HWY @ OAKTON ST                           |
| 55    | TS 22150 | DEVON AVE @ GREENWOOD AVE                       |
| 56    | TS 1305  | US 14/CALDWELL AVE @ TOUHY AVE                  |
| 57    | TS 1275  | US 14/DEMPSTER ST @ POTTER RD                   |
| 58    | TS 1240  | US 14/DEMPSTER ST @ LUTHER LN                   |
| 59    | TS 1210  | US 14/DEMPSTER ST @ GREENWOOD AVE               |
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| 62    | TS 5950  | WOLF RD @ WILLOW/OLD WILLOW RD                  |
| 63    | TS 5944  | WOLF RD @ EDWARD RD                             |
| 64    | TS 419   | US 12/RAND RD @ OLIVE                           |
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| 67    | TS 1745  | US 45-IL 21/MILWAUKEE AVE @ PALATINE SOUTH RAMP |
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LOC # TS # INTERSECTION

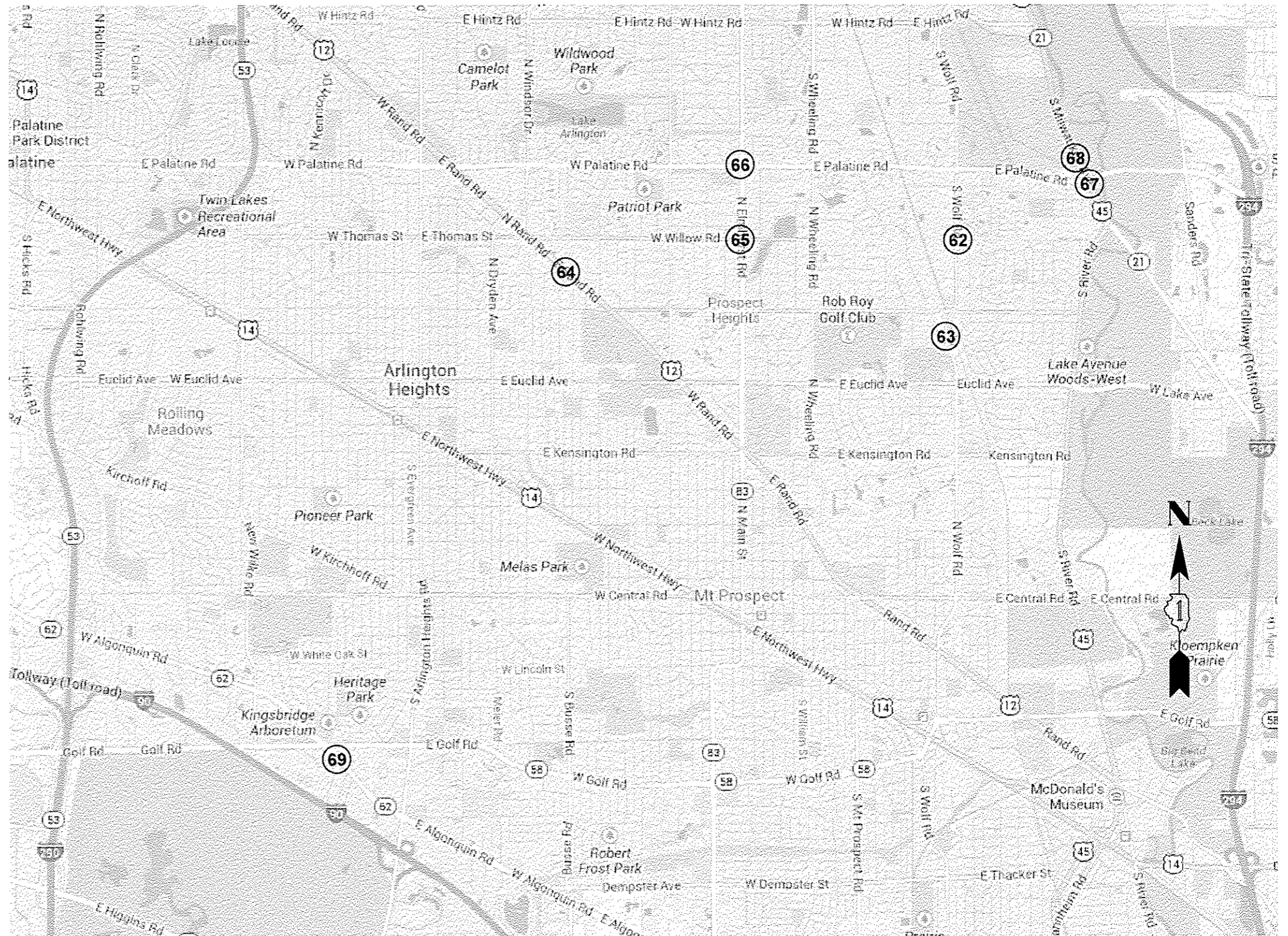
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- 52 TS 4125 ALGONQUIN RD @ OAKTON ST
- 53 TS 3300 IL 72/HIGGINS RD @ CANFIELD RD
- 54 TS 3280 BUSSE HWY @ OAKTON ST
- 55 TS 22150 DEVON AVE @ GREENWOOD AVE
- 56 TS 1305 US 14/CALDWELL AVE @ TOUHY AVE
- 57 TS 1275 US 14/DEMPSTER ST @ POTTER RD
- 58 TS 1240 US 14/DEMPSTER ST @ LUTHER LN
- 59 TS 1210 US 14/DEMPSTER ST @ GREENWOOD AVE
- 60 TS 1205 US 14/DEMPSTER ST @ DEE RD
- 61 TS 11695 US 14/ NORTHWEST HWY @ ELM ST
- 62 TS 5950 WOLF RD @ WILLOW/OLD WILLOW RD
- 63 TS 5944 WOLF RD @ EDWARD RD
- 64 TS 419 US 12/RAND RD @ OLIVE
- 65 TS 3540 IL 83/ELMHURST RD @ WILLOW RD
- 66 TS 3485 IL 83/ELMHURST RD @ PALATINE RD
- 67 TS 1745 US 45-IL 21/MILWAUKEE AVE @ PALATINE SOUTH RAMP
- 68 TS 1740 US 45-IL 21/MILWAUKEE AVE @ PALATINE NORTH RAMP



|   |                      |                |           |   |                     |                           |         |            |                 |              |   |
|---|----------------------|----------------|-----------|---|---------------------|---------------------------|---------|------------|-----------------|--------------|---|
| FILE NAME =<br>D:\62\62-ant-locmap2.dgn | USER NAME = SJohnson | DESIGNED - WBL | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>LOCATION MAP</b> | F.A.<br>RTE.              | SECTION | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |   |
|   |                      | DRAWN - WBL    | REVISED - |   |                     |                           |         | 2014-007TS | COOK            | 88           | 4 |
|   |                      | CHECKED - BKS  | REVISED - |   |                     | CONTRACT NO. 60X82        |         |            |                 |              |   |
|   |                      | DATE -         | REVISED - |   |                     | ILLINOIS FED. AID PROJECT |         |            |                 |              |   |
| SCALE: SHEET OF SHEETS STA. TO STA.     |                      |                |           |   |                     |                           |         |            |                 |              |   |

LOC # TS # INTERSECTION

|    |          |   |
|----|----------|---|
| 1  | TS 65    | I 94/EDENS EXPY/ESTES @ IL 50/CICERO AVE        |
| 2  | TS 5835  | TOUHY AVE @ KOSTNER AVE                         |
| 3  | TS 5825  | TOUHY AVE @ CRAWFORD AVE                        |
| 4  | TS 5477  | MCCORMICK BLVD @ NORTHEAST PKWY                 |
| 5  | -        | NOT USED  |
| 6  | TS 5047  | US 41/LINCOLN @ FIRE STATION EXIT               |
| 7  | TS 4910  | CRAWFORD AVE @ DEVON AVE                        |
| 8  | TS 2625  | IL 50/CICERO AVE @ TOUHY AVE                    |
| 9  | TS 2805  | IL 50/CICERO AVE @ PRATT AVE                    |
| 10 | TS 2590  | IL 50/CICERO AVE @ DEVON AVE                    |
| 11 | TS 20395 | MCCORMICK BLVD @ LINCOLNWOOD TOWN CENTER        |
| 12 | TS 20345 | TOUHY AVE @ LINCOLNWOOD TOWN CENTER             |
| 13 | TS 20341 | TOUHY AVE @ LAWDALE AVE                         |
| 14 | TS 1617  | IL 72/TOUHY AVE @ KILBOURNE AVE                 |
| 15 | TS 1610  | US 41/LINCOLN @ PRATT                           |
| 16 | TS 1545  | US 41/LINCOLN @ KOSTNER                         |
| 17 | TS 1505  | US 41/LINCOLN @ DEVON AVE                       |
| 18 | TS 1500  | US 41/LINCOLN HWY @ CRAWFORD AVE                |
| 19 | TS 12090 | TOUHY AVE @ BARCLAY PL/HYATT DR                 |
| 20 | TS 11185 | DEVON AVE @ KENTON AVE/LEMONT                   |
| 21 | TS 2435  | IL 43/WAUKEGAN RD @ WINNETKA RD                 |
| 22 | TS 2406  | IL 43/WAUKEGAN RD @ TECHN Y RD/FOUNDERS DR      |
| 23 | TS 14485 | WINNETKA RD @ HIBBARD                           |
| 24 | TS 14467 | WILLOW RD @ LAGOON DR                           |
| 25 | TS 9255  | TOUHY AVE @ WASHINGTON ST                       |
| 26 | TS 9250  | US 14/NORTHWEST HWY @ PROSPECT AVE PARK RIDGE   |
| 27 | TS 9247  | US 14/NORTHWEST HWY @ SUMMIT                    |
| 28 | TS 9245  | COURTLAND/TALCOTT AVE @ DEVON AVE               |
| 29 | TS 9240  | BUSSE HWY @ MEACHAM TOUHY PARK RIDGE            |
| 30 | TS 9235  | BUSSE HWY @ GREENWOOD AVE                       |
| 31 | TS 9230  | TOUHY AVE @ WESTERN AVE                         |
| 32 | TS 9222  | TOUHY AVE @ SUMMIT                              |
| 33 | TS 9220  | NORTHWEST HWY @ WASHINGTON ST                   |
| 34 | TS 9215  | NORTHWEST HWY @ MEACHAM AVE                     |
| 35 | TS 9210  | GREENWOOD @ TOUHY                               |
| 36 | TS 9205  | GREENWOOD AVE @ TALCOTT AVE                     |
| 37 | TS 9190  | IL 171/CUMBERLAND AVE @ TOUHY AVE               |
| 38 | TS 9185  | CUMBERLAND AVE @ TALCOTT AVE                    |
| 39 | TS 9180  | CUMBERLAND AVE @ GRANVILLE                      |
| 40 | TS 5830  | TOUHY AVE @ DEE RD                              |
| 41 | TS 5815  | TALCOTT AVE @ TOUHY AVE                         |
| 42 | TS 5810  | DEE RD @ TALCOTT AVE                            |
| 43 | TS 5535  | OAKTON ST @ FLORENCE                            |
| 44 | TS 5510  | NORTHWEST HWY @ POTTER RD                       |
| 45 | TS 5505  | NORTHWEST HWY @ OAKTON ST                       |
| 46 | TS 4955  | CUMBERLAND AVE @ DEVON AVE                      |
| 47 | TS 4260  | CANFIELD @ TALCOTT AVE                          |
| 48 | TS 4255  | CANFIELD @ DEVON AVE                            |
| 49 | TS 4245  | BUSSE RD @ POTTER RD                            |
| 50 | TS 4146  | BALLARD RD @ NESSET RD                          |
| 51 | TS 4145  | BALLARD RD @ DEE RD                             |
| 52 | TS 4125  | ALGONQUIN RD @ OAKTON ST                        |
| 53 | TS 3300  | IL 72/HIGGINS RD @ CANFIELD RD                  |
| 54 | TS 3280  | BUSSE HWY @ OAKTON ST                           |
| 55 | TS 22150 | DEVON AVE @ GREENWOOD AVE                       |
| 56 | TS 1305  | US 14/CALDWELL AVE @ TOUHY AVE                  |
| 57 | TS 1275  | US 14/DEMPSTER ST @ POTTER RD                   |
| 58 | TS 1240  | US 14/DEMPSTER ST @ LUTHER LN                   |
| 59 | TS 1210  | US 14/DEMPSTER ST @ GREENWOOD AVE               |
| 60 | TS 1205  | US 14/DEMPSTER ST @ DEE RD                      |
| 61 | TS 11695 | US 14/ NORTHWEST HWY @ ELM ST                   |
| 62 | TS 5950  | WOLF RD @ WILLOW/OLD WILLOW RD                  |
| 63 | TS 5944  | WOLF RD @ EDWARD RD                             |
| 64 | TS 419   | US 12/RAND RD @ OLIVE                           |
| 65 | TS 3540  | IL 83/ELMHURST RD @ WILLOW RD                   |
| 66 | TS 3485  | IL 83/ELMHURST RD @ PALATINE RD                 |
| 67 | TS 1745  | US 45-IL 21/MILWAUKEE AVE @ PALATINE SOUTH RAMP |
| 68 | TS 1740  | US 45-IL 21/MILWAUKEE AVE @ PALATINE NORTH RAMP |



|                                     |                      |                |           |   |                                     |  |  |                    |         |        |              |           |
|-------------------------------------|----------------------|----------------|-----------|---|-------------------------------------|--|--|--------------------|---------|--------|--------------|-----------|
| FILE NAME : 0160X02-shr-lacmap3.dgn | USER NAME : SJohnson | DESIGNED - WBL | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>LOCATION MAP</b>                 |  |  | F.A. RTE.          | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default                             |                      | DRAWN - WBL    | REVISED - |   |                                     |  |  | 2014-001TS         | COOK    | 88     | 5            |           |
|                                     |                      | CHECKED - BKS  | REVISED - |   | SCALE: SHEET OF SHEETS STA. TO STA. |  |  | CONTRACT NO. 60X82 |         |        |              |           |
|                                     |                      | DATE -         | REVISED - |   | ILLINOIS/ED. AID PROJECT            |  |  |                    |         |        |              |           |



| SUMMARY OF QUANTITIES HEADING LEGEND |       |   |                       |             |            |          |            |          |                  |                |
|--------------------------------------|-------|---|-----------------------|-------------|------------|----------|------------|----------|------------------|----------------|
| COLUMN NUMBER                        | TS#   | INTERSECTION                                    | FUNDING PARTICIPATION |             |            |          |            |          |                  |                |
|                                      |       |   | STATE                 | LINCOLNWOOD | NORTHFIELD | GLENVIEW | NORTHBROOK | WINNETKA | PROSPECT HEIGHTS | SIMON PROPERTY |
| 1                                    | 65    | I 94/EDENS EXPY/ESTES @ IL 50/CICERO AVE        | 100.0%                |             |            |          |            |          |                  |                |
| 2                                    | 5835  | TOUHY AVE @ KOSTNER AVE                         | 95.0%                 | 5.0%        |            |          |            |          |                  |                |
| 1                                    | 5825  | TOUHY AVE @ CRAWFORD AVE                        | 100.0%                |             |            |          |            |          |                  |                |
| 3                                    | 5477  | MCCORMICK BLVD @ NORTHEAST PKWY                 | 96.7%                 | 3.3%        |            |          |            |          |                  |                |
| 3                                    | 5047  | US 41/LINCOLN @ FIRE STATION EXIT               | 96.7%                 | 3.3%        |            |          |            |          |                  |                |
| 1                                    | 4910  | CRAWFORD AVE @ DEVON AVE                        | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 2625  | IL 50/CICERO AVE @ TOUHY AVE                    | 100.0%                |             |            |          |            |          |                  |                |
| 2                                    | 2605  | IL 50/CICERO AVE @ PRATT AVE                    | 95.0%                 | 5.0%        |            |          |            |          |                  |                |
| 1                                    | 2590  | IL 50/CICERO AVE @ DEVON AVE                    | 100.0%                |             |            |          |            |          |                  |                |
| 4                                    | 20395 | MCCORMICK BLVD @ LINCOLNWOOD TOWN CENTER        | 96.7%                 |             |            |          |            |          |                  | 3.3%           |
| 4                                    | 20345 | TOUHY AVE @ LINCOLNWOOD TOWN CENTER             | 96.7%                 |             |            |          |            |          |                  | 3.3%           |
| 2                                    | 1617  | IL 72/TOUHY AVE @ KILBOURNE AVE                 | 95.0%                 | 5.0%        |            |          |            |          |                  |                |
| 2                                    | 1610  | US 41/LINCOLN @ PRATT                           | 95.0%                 | 5.0%        |            |          |            |          |                  |                |
| 2                                    | 1545  | US 41/LINCOLN @ KOSTNER                         | 95.0%                 | 5.0%        |            |          |            |          |                  |                |
| 1                                    | 1505  | US 41/LINCOLN @ DEVON AVE                       | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 1500  | US 41/LINCOLN HWY @ CRAWFORD AVE                | 100.0%                |             |            |          |            |          |                  |                |
| 2                                    | 12090 | TOUHY AVE @ BARCLAY PL/HYATT DR                 | 95.0%                 | 5.0%        |            |          |            |          |                  |                |
| 5                                    | 11185 | DEVON AVE @ KENTON AVE/LEDMONT                  | 97.5%                 | 2.5%        |            |          |            |          |                  |                |
| 6                                    | 2435  | IL 43/WAUKEGAN RD @ WINNETKA RD                 | 97.5%                 |             |            | 2.5%     |            |          |                  |                |
| 7                                    | 2406  | IL 43/WAUKEGAN RD @ TECHNY RD/FOUNDERS DR       | 95.0%                 |             |            |          | 5.0%       |          |                  |                |
| 8                                    | 14485 | WINNETKA RD @ HIBBARD                           | 95.0%                 |             |            |          |            | 5.0%     |                  |                |
| 9                                    | 14467 | WILLOW RD @ LACON DR                            | 96.7%                 |             | 3.3%       |          |            |          |                  |                |
| 10                                   | 5950  | WOLF RD @ WILLOW/OLD WILLOW RD                  | 95.0%                 |             |            |          |            | 5.0%     |                  |                |
| 10                                   | 5944  | WOLF RD @ EDWARD RD                             | 95.0%                 |             |            |          |            | 5.0%     |                  |                |
| 10                                   | 419   | US 12/RAND RD @ OLIVE                           | 95.0%                 |             |            |          |            | 5.0%     |                  |                |
| 1                                    | 3540  | IL 83/ ELMHURST RD @ WILLOW RD                  | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 3485  | IL 83/ELMHURST RD @ PALATINE RD                 | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 1745  | US 45-IL 21 MILWAUKEE AVE @ PALATINE SOUTH RAMP | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 1740  | US 45-IL 21/MILWAUKEE AVE @ PALATINE NORTH RAMP | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 5505  | NORTHWEST HWY @ OAKTON ST                       | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 4955  | CUMBERLAND AVE @ DEVON AVE                      | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 4260  | CANFIELD @ TALCOTT AVE                          | 100.0%                |             |            |          |            |          |                  |                |
| 1                                    | 4255  | CANFIELD @ DEVON AVE                            | 100.0%                |             |            |          |            |          |                  |                |

| SUMMARY OF QUANTITIES HEADING LEGEND |       |                                     |                       |            |                           |               |  |  |  |  |
|--------------------------------------|-------|-------------------------------------|-----------------------|------------|---------------------------|---------------|--|--|--|--|
| COLUMN NUMBER                        | TS#   | INTERSECTION                        | FUNDING PARTICIPATION |            |                           |               |  |  |  |  |
|                                      |       |                                     | STATE                 | PARK RIDGE | LUTHERAN GENERAL HOSPITAL | MAIN TOWNSHIP |  |  |  |  |
| 11                                   | 9255  | TOUHY AVE @ WASHINGTON ST           | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 12                                   | 9250  | US 14/ NORTHWEST HWY @ PROSPECT AVE | 96.0%                 | 4.0%       |                           |               |  |  |  |  |
| 13                                   | 9247  | US 14/ NORTHWEST HWY @ SUMMIT       | 96.7%                 | 3.3%       |                           |               |  |  |  |  |
| 12                                   | 9245  | COURTLAND/TALCOTT AVE @ DEVON AVE   | 96.0%                 | 4.0%       |                           |               |  |  |  |  |
| 1                                    | 9240  | BUSSE HWY @ MEACHAM                 | 100.0%                |            |                           |               |  |  |  |  |
| 11                                   | 9235  | BUSSE HWY @ GREENWOOD AVE           | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 11                                   | 9230  | TOUHY AVE @ WESTERN AVE             | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 11                                   | 9222  | TOUHY AVE @ SUMMIT                  | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 14                                   | 9220  | NORTHWEST HWY @ WASHINGTON ST       | 94.0%                 | 6.0%       |                           |               |  |  |  |  |
| 14                                   | 9215  | NORTHWEST HWY @ MEACHAM AVE         | 94.0%                 | 6.0%       |                           |               |  |  |  |  |
| 11                                   | 9210  | GREENWOOD @ TOUHY                   | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 11                                   | 9205  | GREENWOOD AVE @ TALCOTT AVE         | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 11                                   | 9190  | IL 171 CUMBERLAND AVE @ TOUHY AVE   | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 1                                    | 9185  | CUMBERLAND AVE @ TALCOTT AVE        | 100.0%                |            |                           |               |  |  |  |  |
| 11                                   | 9180  | CUMBERLAND AVE @ GRANVILLE          | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 11                                   | 5830  | TOUHY AVE @ DEE RD                  | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 1                                    | 5815  | TALCOTT AVE @ TOUHY AVE             | 100.0%                |            |                           |               |  |  |  |  |
| 11                                   | 5810  | DEE RD @ TALCOTT AVE                | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 13                                   | 5535  | OAKTON ST @ FLORENCE                | 96.7%                 | 3.3%       |                           |               |  |  |  |  |
| 11                                   | 5510  | NORTHWEST HWY @ POTTER RD           | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 13                                   | 4245  | BUSSE RD @ POTTER RD                | 96.7%                 | 3.3%       |                           |               |  |  |  |  |
| 13                                   | 4146  | BALLARD RD @ NESSET RD              | 96.7%                 | 3.3%       |                           |               |  |  |  |  |
| 15                                   | 4145  | BALLARD RD @ DEE RD                 | 95.0%                 |            |                           | 5.0%          |  |  |  |  |
| 1                                    | 4125  | ALGONQUIN RD @ OAKTON ST            | 100.0%                |            |                           |               |  |  |  |  |
| 1                                    | 3300  | IL 72/HIGGINS RD @ CANFIELD RD      | 100.0%                |            |                           |               |  |  |  |  |
| 1                                    | 3280  | BUSSE HWY @ OAKTON ST               | 100.0%                |            |                           |               |  |  |  |  |
| 11                                   | 22150 | DEVON AVE @ GREENWOOD AVE           | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 1                                    | 1305  | US 14/CALDWELL AVE @ TOUHY AVE      | 100.0%                |            |                           |               |  |  |  |  |
| 16                                   | 1275  | US 14/DEMPSTER ST @ POTTER RD       | 97.5%                 | 2.5%       |                           |               |  |  |  |  |
| 17                                   | 1240  | US 14/ DEMPSTER ST @ LUTHER LN      | 95.0%                 | 2.5%       | 2.5%                      |               |  |  |  |  |
| 1                                    | 1210  | US 14/DEMPSTER ST @ GREENWOOD AVE   | 100.0%                |            |                           |               |  |  |  |  |
| 18                                   | 1205  | US 14/DEMPSTER ST @ DEE RD          | 95.0%                 | 2.5%       |                           | 2.5%          |  |  |  |  |
| 11                                   | 11695 | US 14/ NORTHWEST HWY @ ELM ST       | 95.0%                 | 5.0%       |                           |               |  |  |  |  |
| 11                                   | 1213  | US 14/ DEMPSTER ST @ WESTERN AVE    | 95.0%                 | 5.0%       |                           |               |  |  |  |  |



100%  
STATE

| CODE NO.   | ITEM  | UNIT   | TOTAL QUANTITY | CONSTRUCTION CODE |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|---|--------|----------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |   |        |                | A01               | C01 | C02 | C03 | C04 | C05 | C06 | C07 | C08 | C09 | C10 | C11 | C12 | C13 | C14 | C15 | C16 | C17 |
|            |   |        |                | TRAFFIC SIGNAL    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|            |   |        |                | 0021              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|            |   |        |                | URBAN             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 67000400   | ENGINEER'S FIELD OFFICE, TYPE A                                     | CAL MO | 6              | 6                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 67100100   | MOBILIZATION  | L SUM  | 1              | 1                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 70102635   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701                     | L SUM  | 1              | 1                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| * 72000100 | SIGN PANEL - TYPE 1   | SD FT  | 1              | 1                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| * 72400310 | REMOVE SIGN PANEL - TYPE 1  | SD FT  | 1              | 1                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 85000200   | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                 | EACH   | 67             | 23                | 6   | 2   | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 3   | 14  | 2   | 4   | 2   | 1   | 1   | 1   |
| 87502440   | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.                        | EACH   | 11             | 10                |     |     |     |     |     |     |     |     |     |     | 1   |     |     |     |     |     |     |
| 87502480   | TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                        | EACH   | 57             | 17                | 6   |     | 1   | 4   | 1   |     | 6   | 4   |     | 5   | 2   | 4   |     | 2   |     | 5   |     |
| 87502490   | TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.                        | EACH   | 3              | 1                 |     |     |     |     |     |     |     |     |     |     |     | 2   |     |     |     |     |     |
| 87502500   | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                        | EACH   | 34             | 16                | 4   |     | 2   | 2   |     |     |     |     | 5   | 2   |     |     | 2   |     |     | 1   |     |
| 87502520   | TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.                        | EACH   | 8              | 5                 |     |     |     |     |     |     |     |     | 1   | 2   |     |     |     |     |     |     |     |
| 88001640   | SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-4 SECTION, BRACKET MOUNTED | EACH   | 1              |                   |     |     |     |     |     |     |     |     |     |     |     | 1   |     |     |     |     |     |
| 88030020   | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED               | EACH   | 64             | 19                | 23  |     | 2   | 3   |     | 2   |     | 8   |     | 4   |     | 2   |     |     |     | 1   |     |
| 88030050   | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                | EACH   | 59             | 20                | 5   |     | 4   |     |     | 4   | 4   | 9   | 2   | 7   |     |     |     |     |     | 4   |     |

\*Specialty Items

|                                  |                             |                |           |   |   |       |    |        |           |         |        |              |           |
|----------------------------------|-----------------------------|----------------|-----------|---|---|-------|----|--------|-----------|---------|--------|--------------|-----------|
| FILE NAME = 0162X82-shr-SGQL.dgn | USER NAME = SJohnson        | DESIGNED - PHL | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES<br>(SHEET 2 OF 6) |       |    |        | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                  | PLOT SCALE = 40,000' / 1" = | DRAWN - PHL    | REVISED - |   | SCALE:                                  | SHEET | OF | SHEETS | STA.      | TO STA. | COOK   | 88           | 7         |
|                                  | PLOT DATE = 3/21/2014       | CHECKED - BKS  | REVISED - |   | CONTRACT NO. 60X82                      |       |    |        |           |         |        |              |           |
|                                  |                             | DATE -         | REVISED - |   | ILLINOIS FED. AID PROJECT               |       |    |        |           |         |        |              |           |



100%  
STATE

| CODE NO. | ITEM   | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |
|----------|--|------|----------------|-------------------|----|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|---|---|
|          |  |      |                | 1                 | 2  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |   |   |
|          |  |      |                | TRAFFIC SIGNAL    |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |
|          |  |      |                | 0021              |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |
| URBAN    |  |      |                |                   |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |
| 88030080 | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED  | EACH | 1              |                   |    |   |   |   |   |   |   |   |    |    |    |    |    | 1  |    |    |    |   |   |
| 88030100 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED   | EACH | 11             | 4                 |    |   |   | 2 | 2 |   |   |   |    |    |    |    |    | 3  |    |    |    |   |   |
| 88030110 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED  | EACH | 31             | 15                | 2  |   |   | 2 | 3 |   |   |   |    |    |    |    |    | 6  | 2  | 1  |    |   |   |
| 88030210 | SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 36             | 14                | 4  |   |   |   | 1 |   | 4 |   |    |    |    |    |    | 3  | 2  | 3  | 2  |   | 3 |
| 88030220 | SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED   | EACH | 2              | 2                 |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |
| 88030230 | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED                                  | EACH | 2              | 1                 |    |   |   |   |   |   |   |   |    |    |    |    |    |    | 1  |    |    |   |   |
| 88030240 | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED                                  | EACH | 22             | 11                | 2  |   |   |   | 1 |   |   |   |    |    |    |    |    |    | 5  |    |    | 2 | 1 |
| 88030310 | SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 1              | 1                 |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |
| 88055150 | OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                            | EACH | 9              | 2                 | 3  |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 4  |    |   |   |
| 88055160 | OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 14             | 1                 | 9  |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 2  | 2  |   |   |
| 88055170 | OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED                           | EACH | 2              |                   |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 2  |    |   |   |
| 88055190 | OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                            | EACH | 3              | 1                 |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 2  |    |   |   |
| 88055200 | OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED                           | EACH | 3              | 3                 |    |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |
| 88060110 | COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 15             | 1                 | 12 |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 2  |    |   |   |

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CHECKED - BKS  
DATE -

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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
(SHEET 3 OF 6)

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|------------|--------|--------------------|-----------|
|                           | 2014-007TS | COOK   | 88                 | 8         |
| ILLINOIS FED. AID PROJECT |            |        | CONTRACT NO. 60XB2 |           |





| CODE NO. | ITEM   | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|----------|--|------|----------------|-------------------|----|---|---|---|----|----|----|----|----|----|----|----|----|---|---|---|---|---|
|          |  |      |                | TRAFFIC SIGNAL    |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|          |  |      |                | 0021              |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|          |  |      |                | URBAN             |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 1        | 2  | 3    | 4              | 5                 | 6  | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |   |   |   |   |   |
| 88060150 | COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 2              |                   |    |   |   |   |    |    |    |    |    |    |    |    |    | 2 |   |   |   |   |
| 88060180 | COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 4              | 2                 |    |   |   |   |    |    |    |    |    |    |    |    |    | 2 |   |   |   |   |
| 88060460 | COMBINATION SIGNAL HEAD, LED, 3-FACE, 2-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 1              | 1                 |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED   | EACH | 5              |                   |    |   |   |   |    |    |    |    |    |    |    |    |    | 5 |   |   |   |   |
| 88102717 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 144            | 41                | 30 |   |   | 2 | 4  |    |    | 2  | 4  | 27 | 10 | 4  | 6  | 8 |   | 6 |   |   |
| 88102740 | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED   | EACH | 1              |                   |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   | 1 |   |   |
| 88102747 | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 55             | 29                | 2  |   |   |   | 1  |    |    |    |    |    | 17 | 1  | 1  |   |   | 4 |   |   |
| 88102757 | PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 2              | 1                 |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   | 1 |   |   |
| 88200210 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 163            | 64                | 36 |   | 4 | 4 | 6  | 2  |    |    | 2  | 6  | 22 | 4  | 7  |   | 4 |   | 2 |   |
| 88800100 | PEDESTRIAN PUSH-BUTTON   | EACH | 130            | 26                | 26 |   |   | 2 |    |    |    |    | 2  | 4  | 36 | 12 | 2  | 6 | 8 |   | 6 |   |
| 89500100 | RELOCATE EXISTING SIGNAL HEAD  | EACH | 26             | 25                |    |   | 1 |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 89500200 | RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD   | EACH | 23             | 23                |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 89500400 | RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON   | EACH | 1              | 1                 |    |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET   | EACH | 64             | 22                | 6  | 2 | 2 | 1 | 1  | 1  | 1  | 1  | 1  | 3  | 13 | 2  | 4  | 2 | 1 |   | 1 | 1 |

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PLOT DATE = 3/21/2014

DESIGNED - PHL  
DRAWN - PHL  
CHECKED - BKS  
DATE -  
REVISED -  
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REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
(SHEET 4 OF 6)

SCALE: SHEET OF SHEETS STA. TO STA.

|                    |           |        |                           |           |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE.          | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                    | 2014-0075 | COOK   | 88                        | 9         |
| CONTRACT NO. 60X82 |           |        | ILLINOIS FED. AID PROJECT |           |



| CODE NO. | ITEM  | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
|----------|---|------|----------------|-------------------|---|---|---|---|----|----|----|----|----|----|----|----|----|---|---|---|---|
|          |   |      |                | TRAFFIC SIGNAL    |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
|          |   |      |                | 0021              |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
|          |   |      |                | URBAN             |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
| 1        | 2   | 3    | 4              | 5                 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |   |   |   |   |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                      | EACH | 56             | 19                | 6 |   | 1 | 1 | 1  |    | 1  | 1  | 1  | 14 | 2  | 4  | 2  | 1 | 1 |   | 1 |
| X8620050 | UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED                                  | EACH | 7              | 2                 | 2 |   |   |   |    |    | 1  |    |    | 1  |    | 1  |    |   |   |   |   |
| X8620200 | UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH | 57             | 20                | 4 | 2 | 2 | 1 | 1  | 1  |    | 1  | 3  | 13 | 1  | 4  | 1  | 1 |   | 1 | 1 |
| X8803038 | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 2              | 2                 |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
| X8803040 | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 12             | 5                 |   |   |   |   |    | 2  |    |    | 1  | 3  |    | 1  |    |   |   |   |   |
| X8803051 | SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 1              |                   |   |   | 1 |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
| X8803060 | SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 1              |                   |   |   | 1 |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
| X8803082 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 26             | 4                 | 2 |   | 4 |   |    |    |    |    | 2  | 12 |    | 2  |    |   |   |   |   |
| X8803084 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 77             | 33                | 6 |   | 4 |   |    | 6  |    |    | 14 | 11 |    | 3  |    |   |   |   |   |
| X8803088 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 56             | 28                | 2 |   | 4 |   |    | 4  |    |    | 10 | 7  |    | 1  |    |   |   |   |   |
| X8803090 | SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 9              | 4                 |   |   |   |   |    | 1  |    |    |    | 4  |    |    |    |   |   |   |   |
| X8803110 | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 1              | 1                 |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
| X8803120 | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 1              | 1                 |   |   |   |   |    |    |    |    |    |    |    |    |    |   |   |   |   |
| X8803210 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 28             | 13                | 2 |   |   |   |    |    |    |    | 9  | 2  |    | 2  |    |   |   |   |   |

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| CONSTRUCTION CODE |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
|-------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 1                 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| TRAFFIC SIGNAL    |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| 0021              |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| URBAN             |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |

| CODE NO.   | ITEM   | UNIT | TOTAL QUANTITY | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|------------|--|------|----------------|-----|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| X8803910   | SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT  | EACH | 8              | 5   |   |   | 1 |   |   | 1 |   |   |    | 1  |    |    |    |    |    |    |    |
| X8880015   | PEDESTRIAN PUSH-BUTTON, NON-LATCHING   | EACH | 129            | 66  | 6 |   |   |   | 5 |   |   |   |    | 29 | 7  | 7  | 5  |    | 4  |    |    |
| Z0050400   | REMOVE AND REPLACE ANCHOR BOLTS  | EACH | 58             | 25  | 5 |   | 1 | 3 | 2 |   | 3 | 2 |    | 6  | 3  | 3  |    | 2  |    |    | 3  |
| X8808755   | COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 1              |     |   |   |   |   |   |   |   |   |    |    |    | 1  |    |    |    |    |    |
| ∅ Z0070604 | TRAINEES-TRAINING PROGRAM GRADUATE   | HOUR | 500            | 500 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |

∅ 0042

# TRAFFIC SIGNAL LEGEND

| ITEM  | REMOVAL | EXISTING | PROPOSED | ITEM  | REMOVAL | EXISTING | PROPOSED | ITEM   | REMOVAL | EXISTING | PROPOSED |
|---|---------|----------|----------|---|---------|----------|----------|--|---------|----------|----------|
| CONTROLLER CABINET  |         |          |          | EMERGENCY VEHICLE LIGHT DETECTOR  |         |          |          | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE                    |         |          |          |
| RAILROAD CONTROL CABINET  |         |          |          | CONFIRMATION BEACON   |         |          |          | COAXIAL CABLE  |         |          |          |
| COMMUNICATIONS CABINET  |         |          |          | HANDHOLE  |         |          |          | VENDOR CABLE FOR CAMERA  |         |          |          |
| MASTER CONTROLLER   |         |          |          | HEAVY DUTY HANDHOLE   |         |          |          | COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED                               |         |          |          |
| MASTER MASTER CONTROLLER  |         |          |          | DOUBLE HANDHOLE   |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F  |         |          |          |
| UNINTERRUPTABLE POWER SUPPLY  |         |          |          | JUNCTION BOX  |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F  |         |          |          |
| SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT                        |         |          |          | UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)  |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F  |         |          |          |
| TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT                         |         |          |          | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE   |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F  |         |          |          |
| STEEL MAST ARM ASSEMBLY AND POLE  |         |          |          | COMMON TRENCH   |         |          |          | GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE       |         |          |          |
| ALUMINUM MAST ARM ASSEMBLY AND POLE                                       |         |          |          | COILABLE NONMETALLIC CONDUIT (EMPTY)  |         |          |          | CONTROLLER CABINET AND FOUNDATION TO BE REMOVED  |         |          |          |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE               |         |          |          | SYSTEM ITEM   |         |          |          | STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED   |         |          |          |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA              |         |          |          | INTERSECTION ITEM   |         |          |          | ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED                                      |         |          |          |
| SIGNAL POST   |         |          |          | REMOVE ITEM   |         |          |          | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED |         |          |          |
| TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM           |         |          |          | RELOCATE ITEM   |         |          |          | SIGNAL POST AND FOUNDATION TO BE REMOVED   |         |          |          |
| GUY WIRE  |         |          |          | ABANDON ITEM  |         |          |          | INTERSECTION & SAMPLING (SYSTEM) DETECTOR  |         |          |          |
| SIGNAL HEAD   |         |          |          | 12" (300mm) TRAFFIC SIGNAL SECTION  |         |          |          | SAMPLING (SYSTEM) DETECTOR   |         |          |          |
| SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE) |         |          |          | 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE  |         |          |          | QUEUE DETECTOR   |         |          |          |
| SIGNAL HEAD WITH BACKPLATE  |         |          |          | SIGNAL FACE   |         |          |          | PREFORMED QUEUE DETECTOR   |         |          |          |
| SIGNAL HEAD OPTICALLY PROGRAMMED  |         |          |          | SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD   |         |          |          | PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR                                    |         |          |          |
| FLASHER INSTALLATION (S DENOTES SOLAR POWER)                              |         |          |          | "RB" INDICATES REFLECTIVE BACKPLATE   |         |          |          | PREFORMED SAMPLING (SYSTEM) DETECTOR   |         |          |          |
| PEDESTRIAN SIGNAL HEAD  |         |          |          | 12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL   |         |          |          |  |         |          |          |
| PEDESTRIAN PUSHBUTTON DETECTOR  |         |          |          | 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED   |         |          |          |  |         |          |          |
| ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR                                 |         |          |          | 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID  |         |          |          |  |         |          |          |
| ILLUMINATED SIGN "NO LEFT TURN"   |         |          |          | PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER  |         |          |          |  |         |          |          |
| ILLUMINATED SIGN "NO RIGHT TURN"  |         |          |          | RADIO INTERCONNECT  |         |          |          |  |         |          |          |
| DETECTOR LOOP, TYPE I   |         |          |          | RADIO REPEATER  |         |          |          |  |         |          |          |
| PREFORMED DETECTOR LOOP   |         |          |          | DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED |         |          |          |  |         |          |          |
| MICROWAVE VEHICLE SENSOR  |         |          |          | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)  |         |          |          |  |         |          |          |
| VIDEO DETECTION CAMERA  |         |          |          |   |         |          |          |  |         |          |          |
| VIDEO DETECTION ZONE  |         |          |          |   |         |          |          |  |         |          |          |
| PAN, TILT, ZOOM CAMERA  |         |          |          |   |         |          |          |  |         |          |          |
| WIRELESS DETECTOR SENSOR  |         |          |          |   |         |          |          |  |         |          |          |
| WIRELESS ACCESS POINT   |         |          |          |   |         |          |          |  |         |          |          |

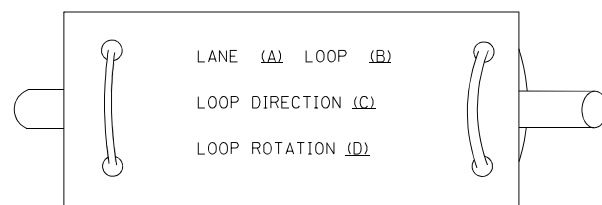
## RAILROAD SYMBOLS

|                              | EXISTING | PROPOSED |
|------------------------------|----------|----------|
| RAILROAD CONTROL CABINET     |          |          |
| RAILROAD CANTILEVER MAST ARM |          |          |
| FLASHING SIGNAL              |          |          |
| CROSSING GATE                |          |          |
| CROSSBUCK                    |          |          |

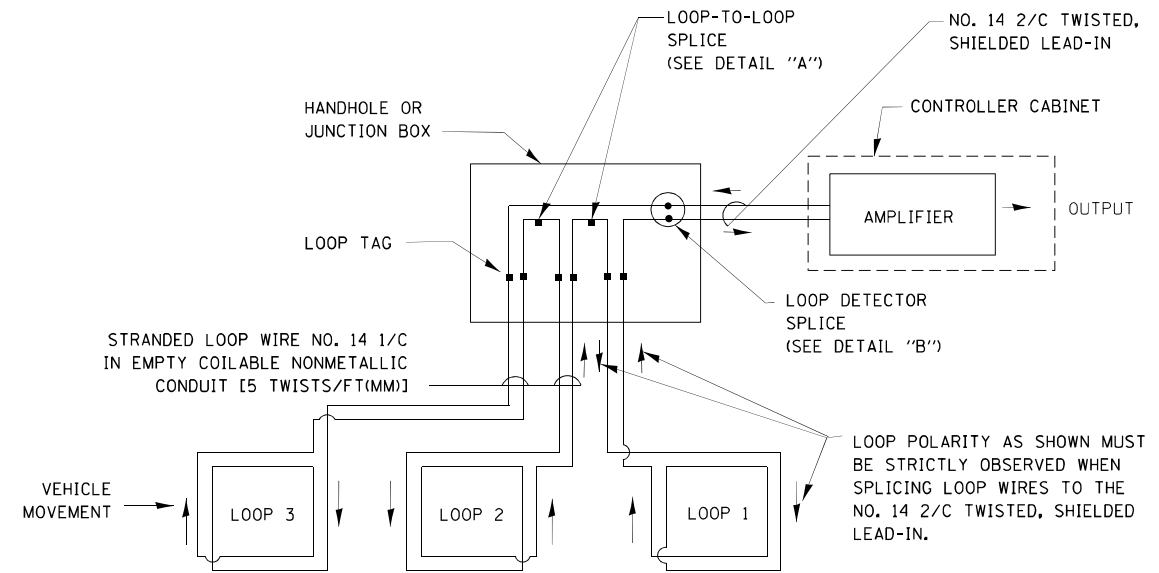
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

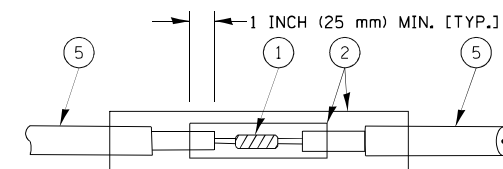


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

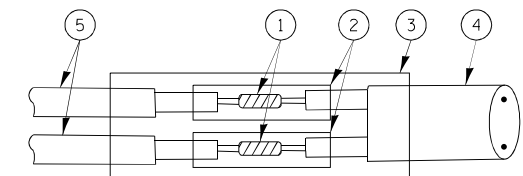


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

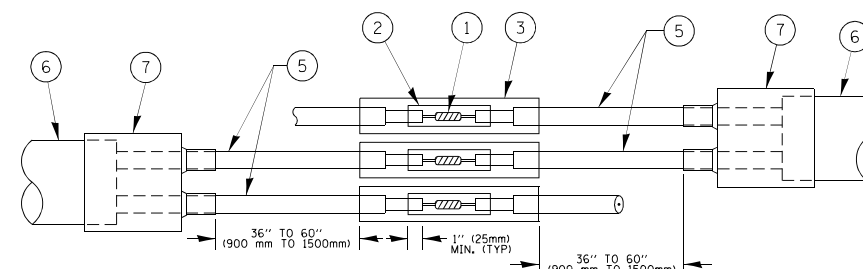


DETAIL "A"  
LOOP-TO-LOOP SPLICE

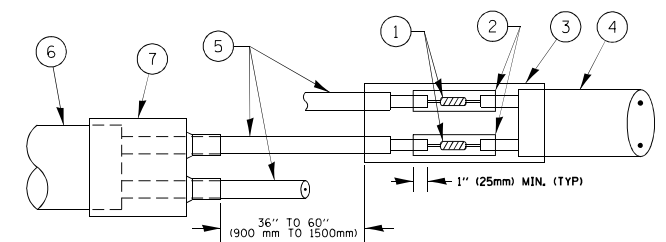


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

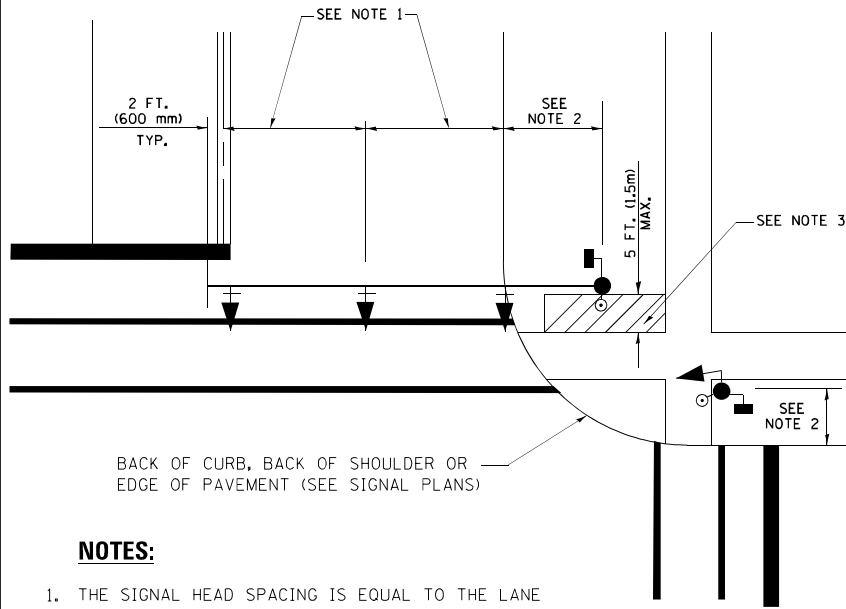
**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

|   |                      |                 |                      |   |  |                         |      |           |                       |          |                  |           |
|---|----------------------|-----------------|----------------------|---|--|-------------------------|------|-----------|-----------------------|----------|------------------|-----------|
| FILE NAME =                                   | USER NAME = footejmj | DESIGNED - DAD  | REVISED - DAG 1-1-14 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT ONE<br/>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> |                         |      | F.A. RTE. | SECTION               | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| os:\pr-work\p\tdo\t\footejmj\0108315\ts05.dgn |                      | DRAWN - BCK     | REVISED -            |   | SCALE: NONE  | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.   | 2014-007TS            | COOK     | 88               | 13        |
|   |                      | CHECKED - DAD   | REVISED -            |   |  |                         |      |           | TS-05                 |          |                  |           |
|   |                      | DATE - 10-28-09 | REVISED -            |   |  |                         |      |           | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT |           |

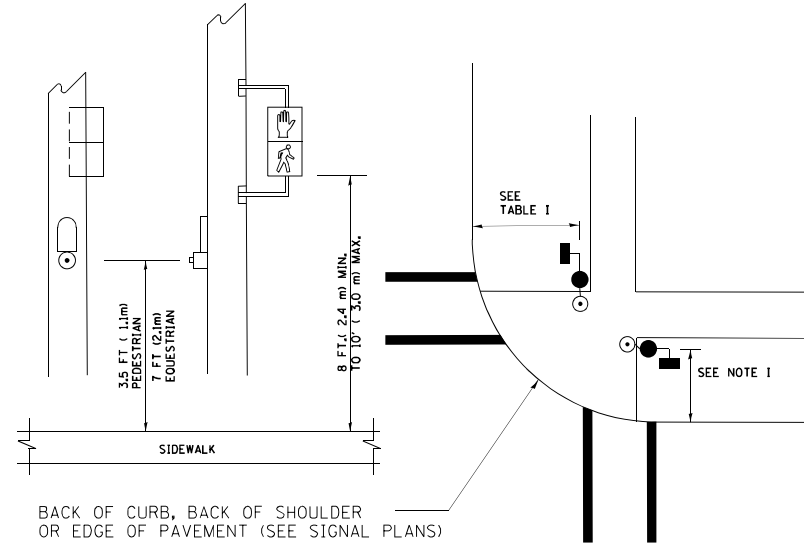
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

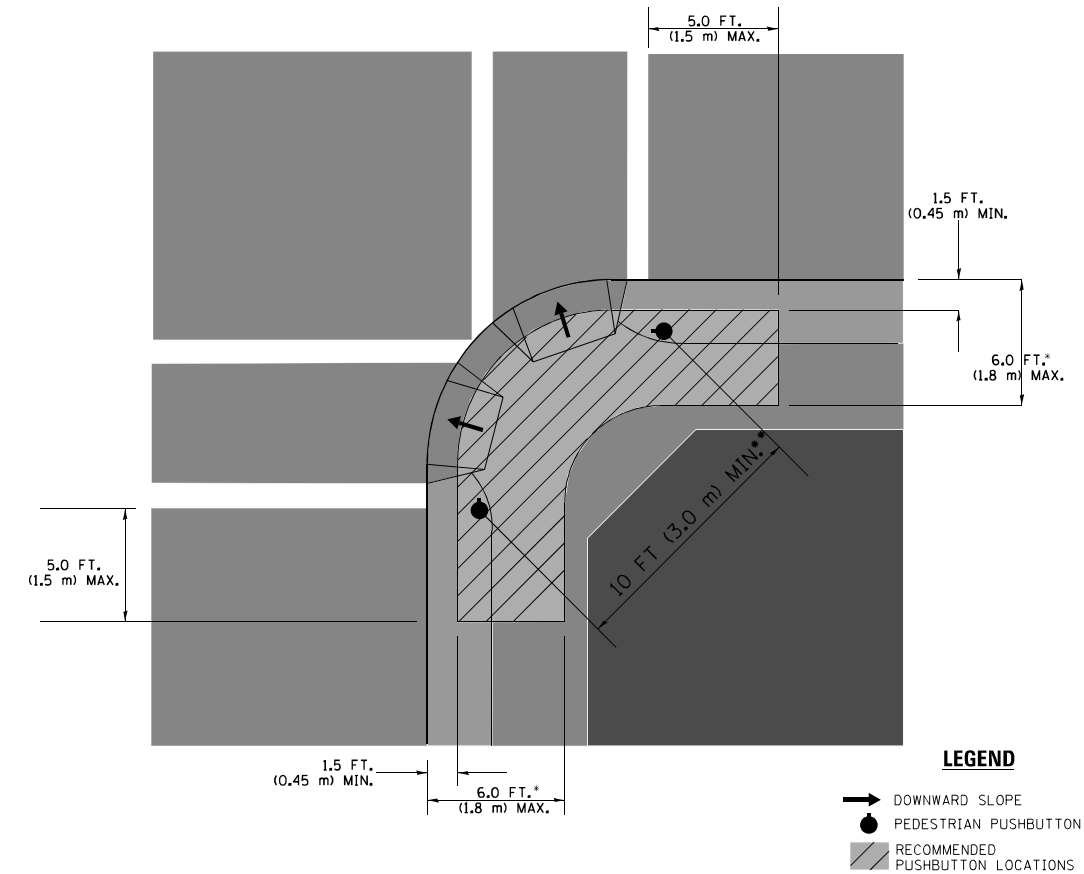
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

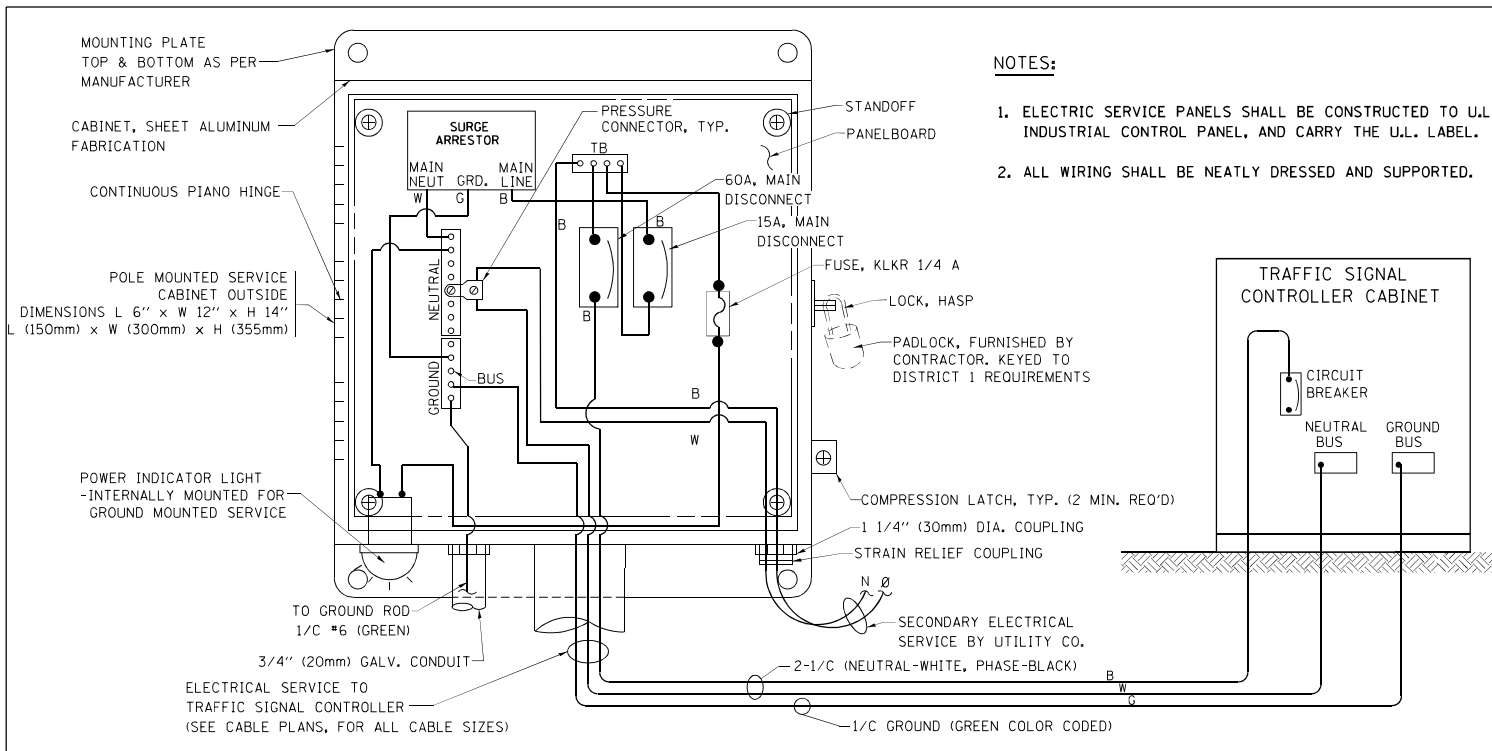
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

| TRAFFIC SIGNAL EQUIPMENT           | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION) |
|------------------------------------|---|---|
| TRAFFIC SIGNAL MAST ARM POLE       | 6 FT (1.8m)   | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)  |
| TRAFFIC SIGNAL POST                | 4 FT (1.2m)   | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)  |
| PEDESTRIAN SIGNAL POST             | 4 FT (1.2m)   | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)  |
| PEDESTRIAN PUSHBUTTON POST         | 4 FT (1.2m)   | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)  |
| TEMPORARY WOOD POLE                | 6 FT (1.8m)   | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)  |
| CONTROLLER CABINET                 | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2   | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.                                |
| SERVICE INSTALLATION, GROUND MOUNT | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2   | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.                                |

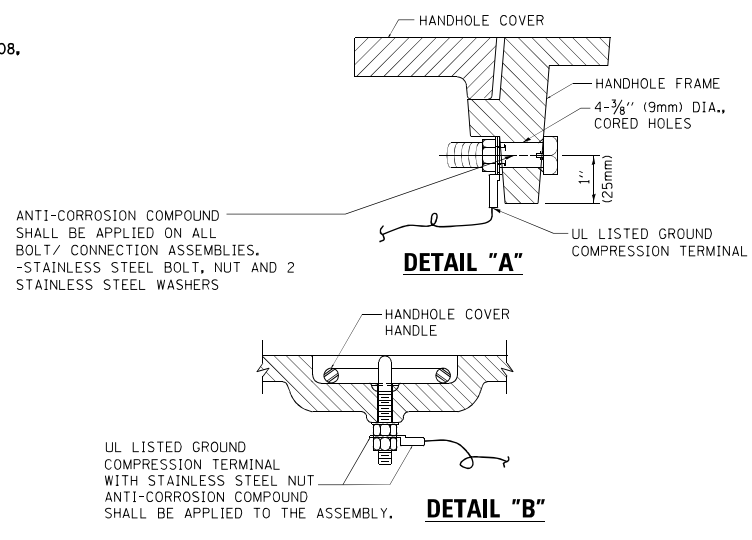
**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

|  |                      |                         |                      |   |  |                       |              |                  |              |           |
|--|----------------------|-------------------------|----------------------|---|--|-----------------------|--------------|------------------|--------------|-----------|
| FILE NAME =                                    | USER NAME = footejmj | DESIGNED - DAD          | REVISED - DAG 1-1-14 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT ONE<br/>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> | F.A. RTE. =           | SECTION      | COUNTY           | TOTAL SHEETS | SHEET NO. |
| os:\pr-work\p\tdo\t\footejmj\d0108315\ts05.dgn | DRAWN - BCK          | REVISED -               | REVISED -            |   |  | 2014-007TS            | COOK         | 88               | 14           |           |
| PLOT SCALE = 50.0000' / 1" =                   | CHECKED - DAD        | REVISED -               | REVISED -            |   |  | TS-05                 | CONTRACT NO. | 60X82            |              |           |
| PLOT DATE = 1/13/2014                          | DATE - 10-28-09      | REVISED -               | REVISED -            |   |  | FED. ROAD DIST. NO. 1 | ILLINOIS     | FED. AID PROJECT |              |           |
| SCALE: NONE                                    |                      | SHEET NO. 3 OF 7 SHEETS |                      | STA.  | TO STA.  |                       |              |                  |              |           |

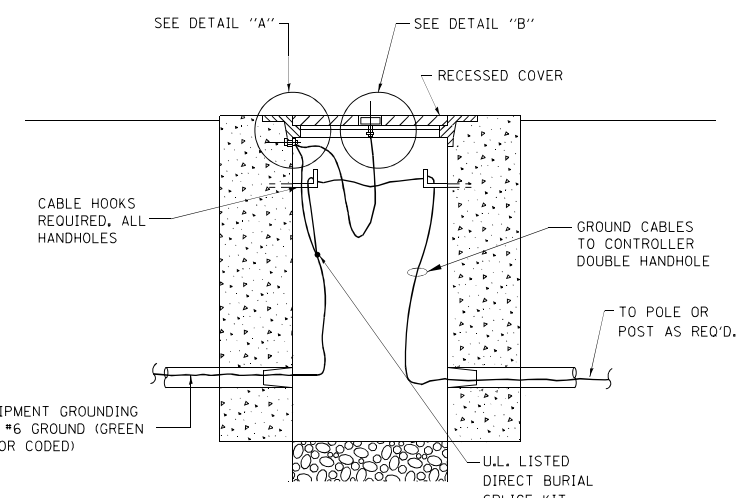


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)

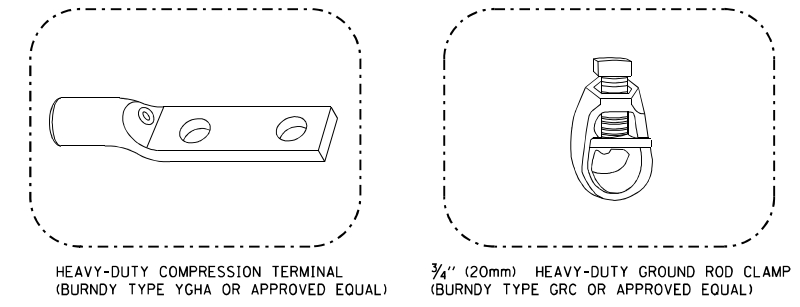


**NOTES:**  
**GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

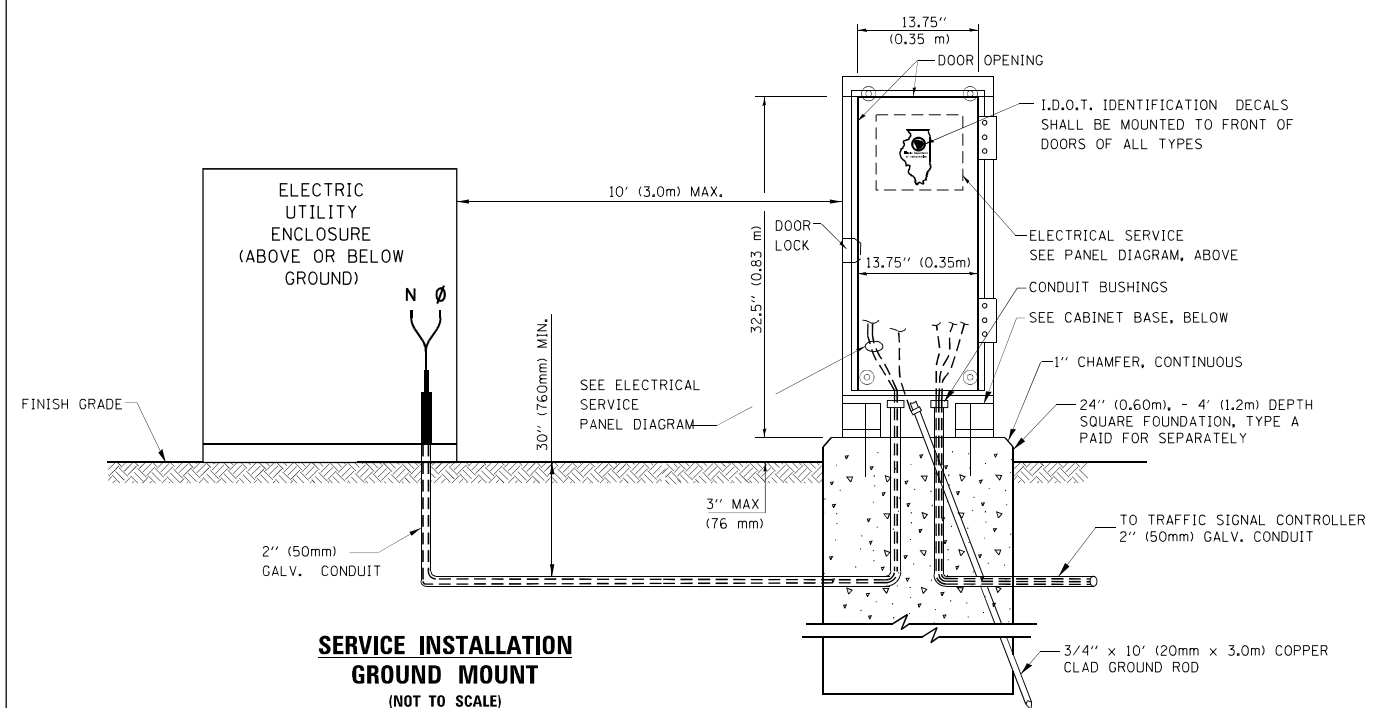


**HANDHOLE COVER & FRAME – GROUNDING DETAIL**  
 (NOT TO SCALE)

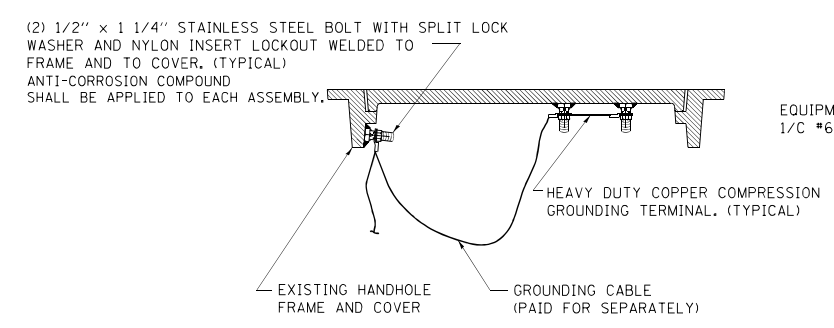


**NOTES:**

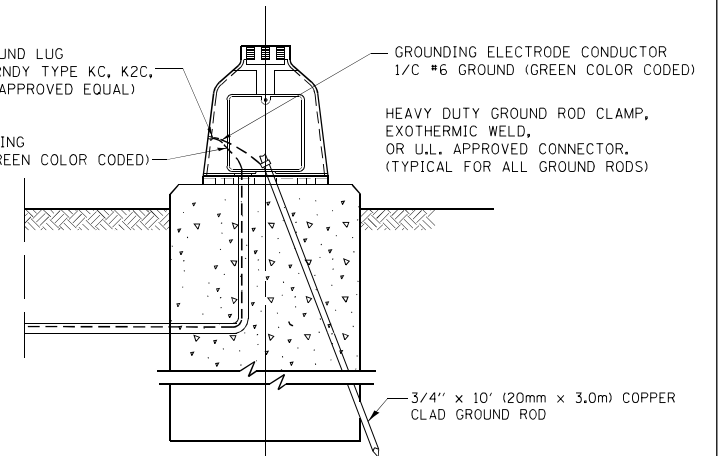
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)

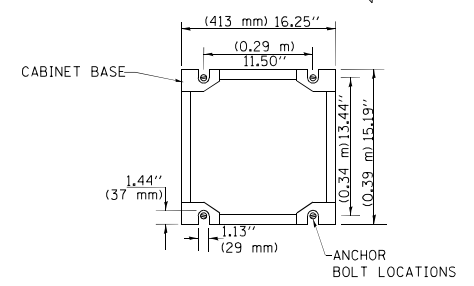


**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL**  
 (NOT TO SCALE)



**MAST ARM POLE / POST-GROUNDING DETAIL**  
 (NOT TO SCALE)

**CABINET – BASE BOLT PATTERN**  
 (NOT TO SCALE)

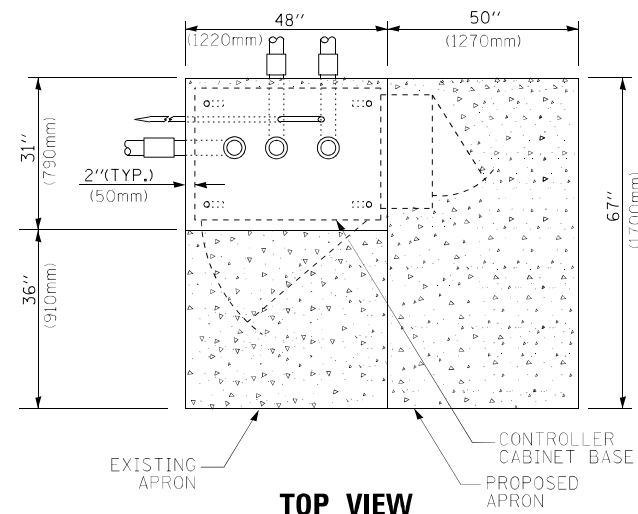


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|   |                     | CHECKED - DAD   | REVISED -            |
|   |                     | DATE - 10-28-09 | REVISED -            |

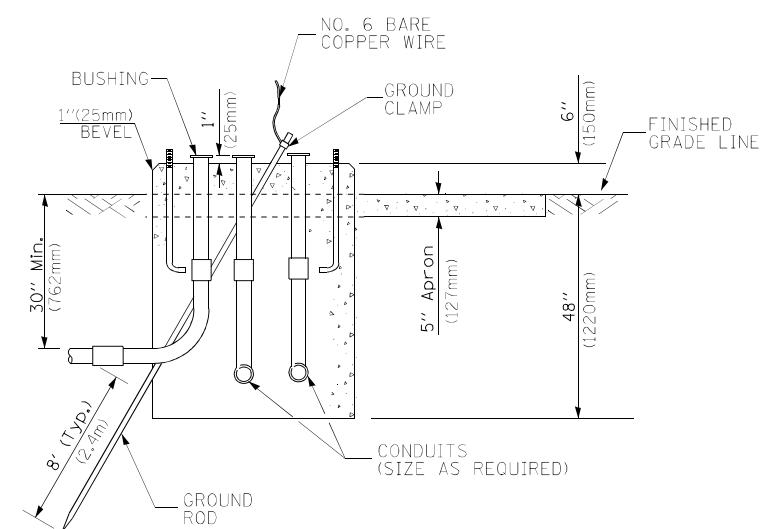
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

|   |                         |      |         |
|---|-------------------------|------|---------|
| <b>DISTRICT ONE</b>                           |                         |      |         |
| <b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> |                         |      |         |
| SCALE: NONE                                   | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA. |

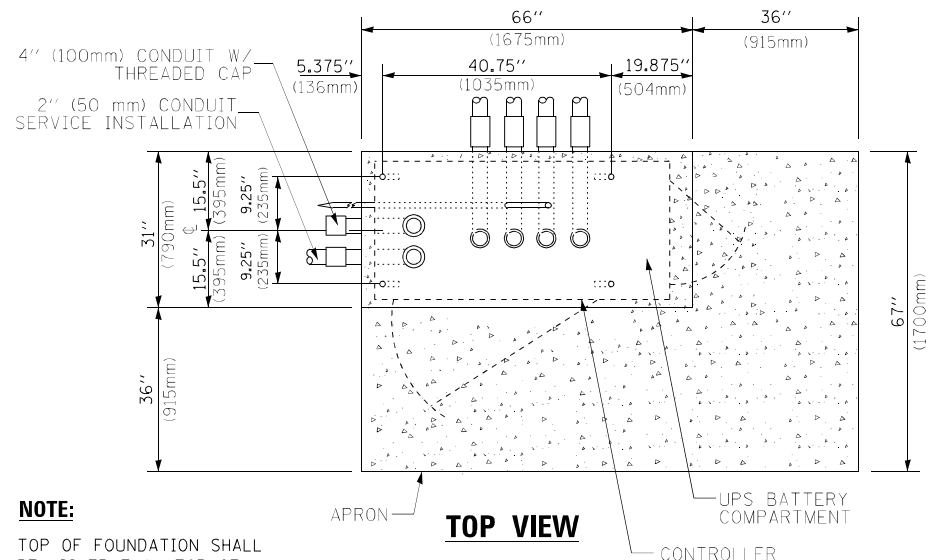
|   |            |              |              |           |
|---|------------|--------------|--------------|-----------|
| F.A. RTE.                                       | SECTION    | COUNTY       | TOTAL SHEETS | SHEET NO. |
|   | 2014-007TS | COOK         | 88           | 15        |
|   | TS-05      | CONTRACT NO. | 60X82        |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |            |              |              |           |



**TOP VIEW**

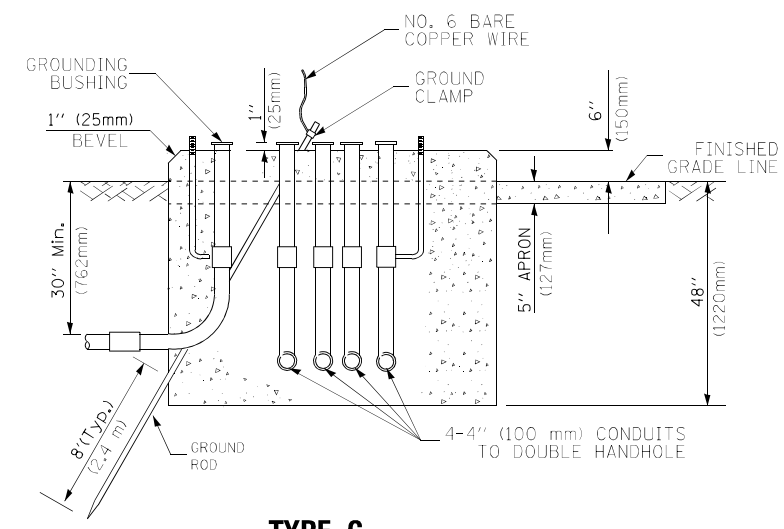


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

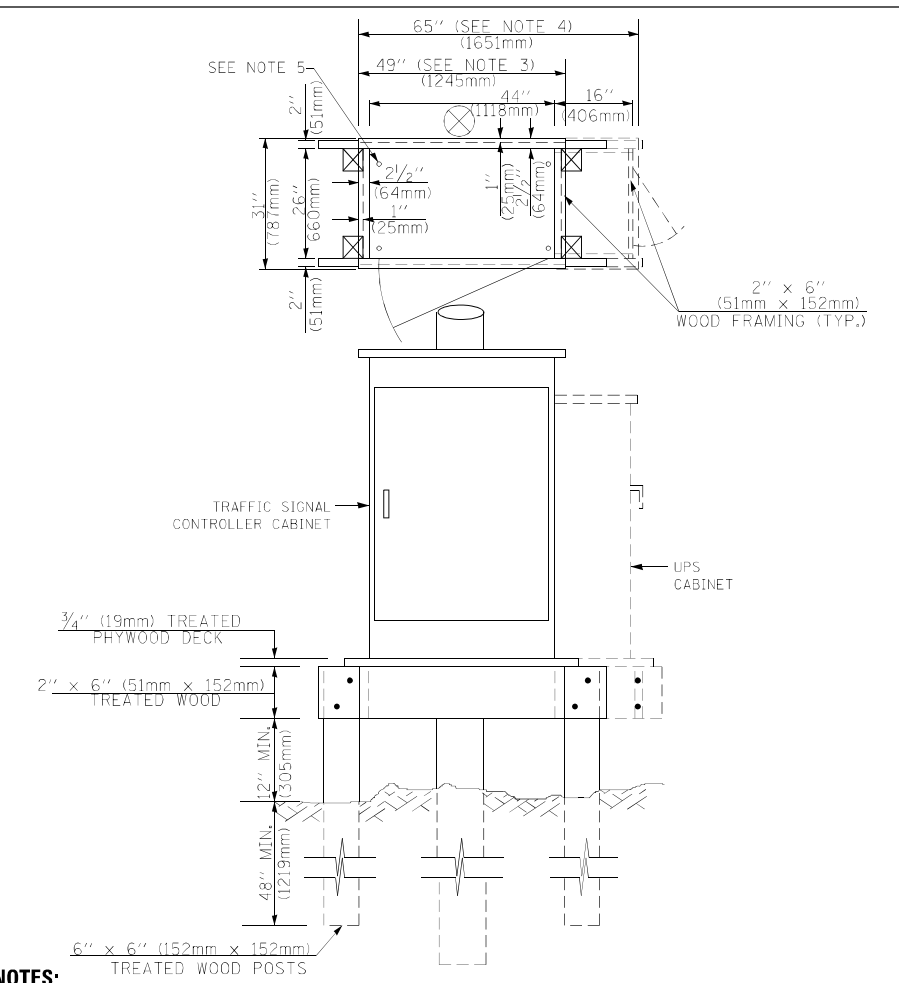


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

| CABLE SLACK LENGTH                                | FEET | METER |
|---|------|-------|
| HANDHOLE  | 6.5  | 2.0   |
| DOUBLE HANDHOLE                                   | 13.0 | 4.0   |
| SIGNAL POST                                       | 2.0  | 0.6   |
| MAST ARM  | 2.0  | 0.6   |
| CONTROLLER CABINET                                | 1.5  | 0.5   |
| FIBER OPTIC AT CABINET                            | 13.0 | 4.0   |
| ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION) | 1.5  | 0.5   |
| GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)     | 1.5  | 0.5   |
| GROUND CABLE (BETWEEN FRAME AND COVER)            | 5.0  | 1.6   |

**CABLE SLACK**

| VERTICAL CABLE LENGTH  | FEET   | METER |
|--|--------|-------|
| MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD)<br>(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM) | 20.0+L | 6.0+L |
| BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)   | 13.0   | 4.0   |
| PEDESTRIAN PUSH BUTTON   | 6.0    | 2.0   |
| SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP  | 13.5   | 4.1   |
| SERVICE INSTALLATION POLE MOUNT TO GROUND  | 13.5   | 4.1   |
| SERVICE INSTALLATION GROUND MOUNT  | 6.0    | 2.0   |
| FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)                                | 3.0    | 1.0   |

**VERTICAL CABLE LENGTH**

| FOUNDATION  | DEPTH        |
|---|--------------|
| TYPE A - Signal Post                                | 4'-0" (1.2m) |
| TYPE C - CONTROLLER W/ UPS                          | 4'-0" (1.2m) |
| TYPE D - CONTROLLER                                 | 4'-0" (1.2m) |
| SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE | 4'-0" (1.2m) |

**DEPTH OF FOUNDATION**

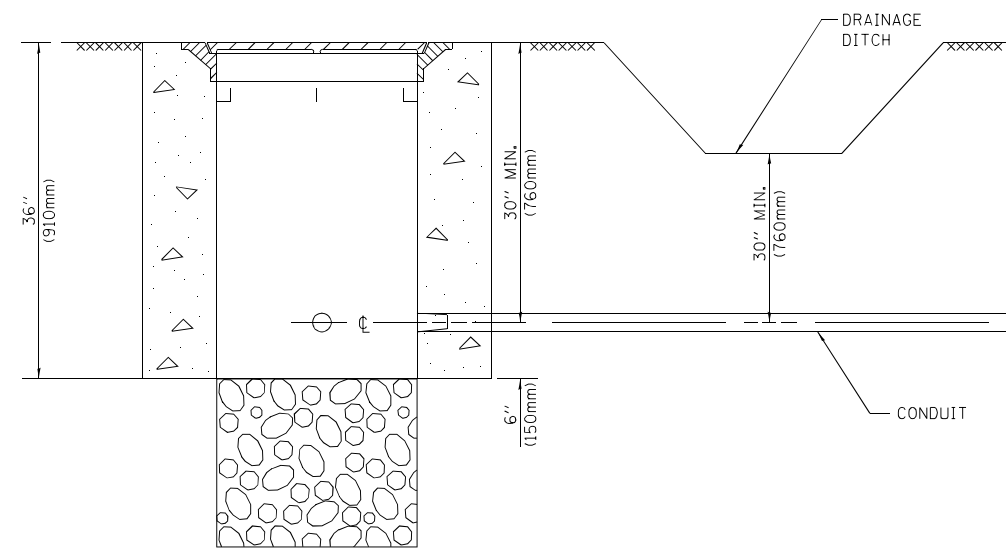
| Mast Arm Length  | ① Foundation Depth | Foundation Diameter | Spiral Diameter | Quantity of Rebars | Size of Rebars |
|--|--------------------|---------------------|-----------------|--------------------|----------------|
| Less than 30' (9.1 m)  | 10'-0" (3.0 m)     | 30" (750mm)         | 24" (600mm)     | 8                  | 6(19)          |
| Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)  | 13'-6" (4.1 m)     | 30" (750mm)         | 24" (600mm)     | 8                  | 6(19)          |
| Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m) | 11'-0" (3.4 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)     | 13'-0" (4.0 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m) | 15'-0" (4.6 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)     | 21'-0" (6.4 m)     | 42" (1060mm)        | 36" (900mm)     | 16                 | 8(25)          |
|  | 25'-0" (7.6 m)     | 42" (1060mm)        | 36" (900mm)     | 16                 | 8(25)          |

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (QU) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

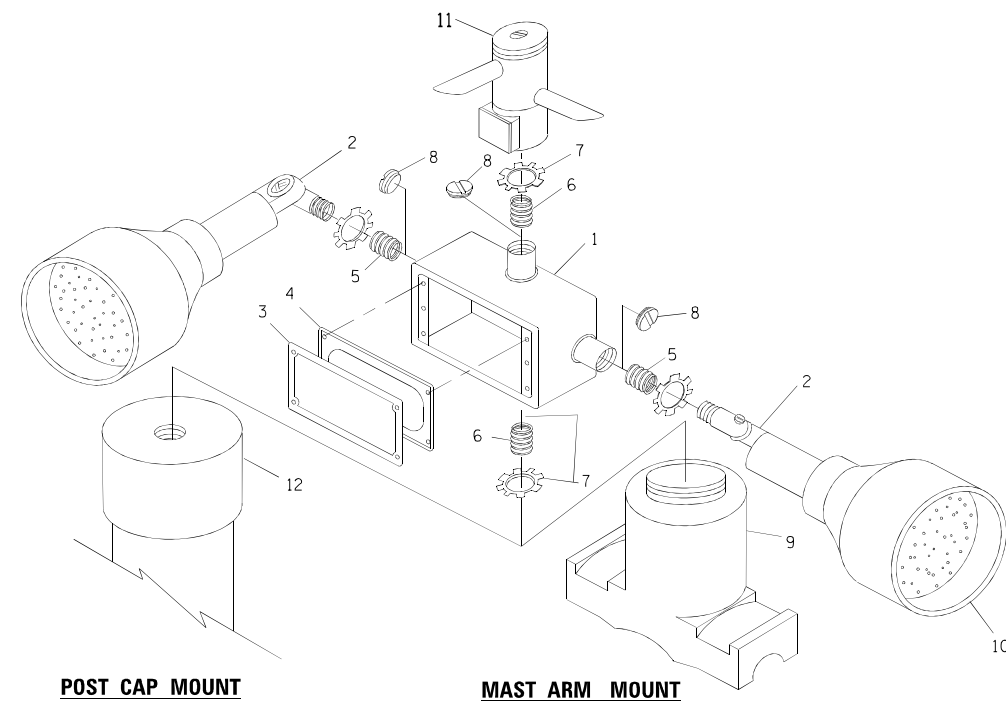




**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

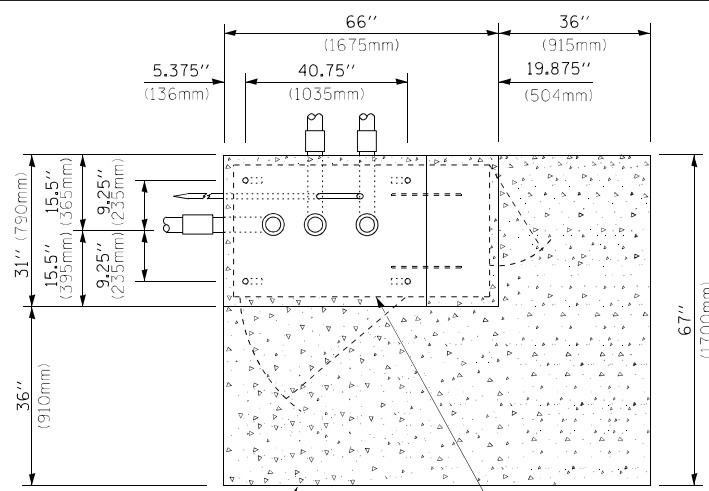
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



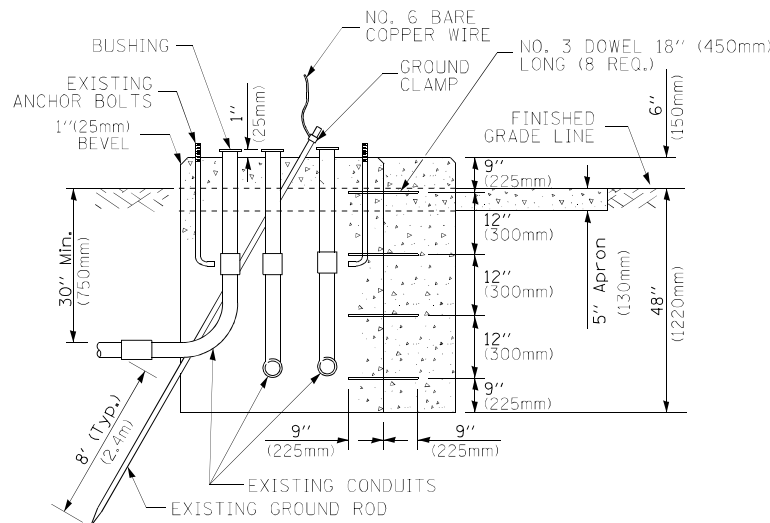
**POST CAP MOUNT**

**MAST ARM MOUNT**

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

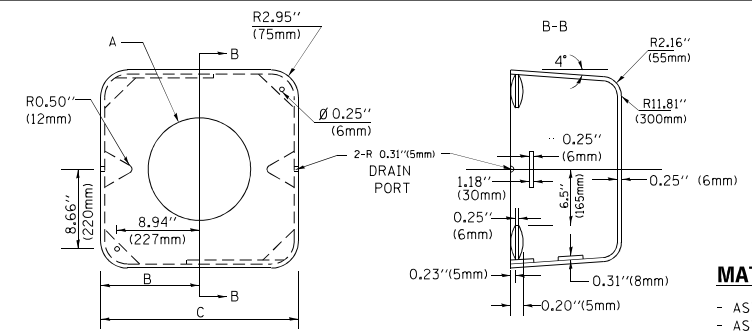


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

| ITEM NO. | IDENTIFICATION                              |
|----------|---|
| 1        | OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) |
| 2        | LAMP HOLDER AND COVER                       |
| 3        | OUTLET BOX COVER                            |
| 4        | RUBBER COVER GASKET                         |
| 5        | REDUCING BUSHING                            |
| 6        | 3/4" (19 mm) CLOSE NIPPLE                   |
| 7        | 3/4" (19 mm) LOCKNUT                        |
| 8        | 3/4" (19 mm) HOLE PLUG                      |
| 9        | SADDLE BRACKET - GALV.                      |
| 10       | 6 WATT PAR 38 LED FLOOD LAMP                |
| 11       | DETECTOR UNIT                               |
| 12       | POST CAP [18 FT. (5.4 m) POST MIN.]         |

**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

| A         | B              | C             | HEIGHT                   | WEIGHT          |
|-----------|----------------|---------------|--------------------------|-----------------|
| VARIABLES | 9.5" (241mm)   | 19" (483mm)   | 7" (178mm) - 12" (300mm) | 53 lbs (24kg)   |
| VARIABLES | 10.75" (273mm) | 21.5" (546mm) | 7" (178mm) - 12" (300mm) | 68 lbs (31 kg)  |
| VARIABLES | 13.0" (330mm)  | 26" (660mm)   | 7" (178mm) - 12" (300mm) | 81 lbs (37 kg)  |
| VARIABLES | 18.5" (470mm)  | 37" (940mm)   | 7" (178mm) - 12" (300mm) | 126 lbs (57 kg) |

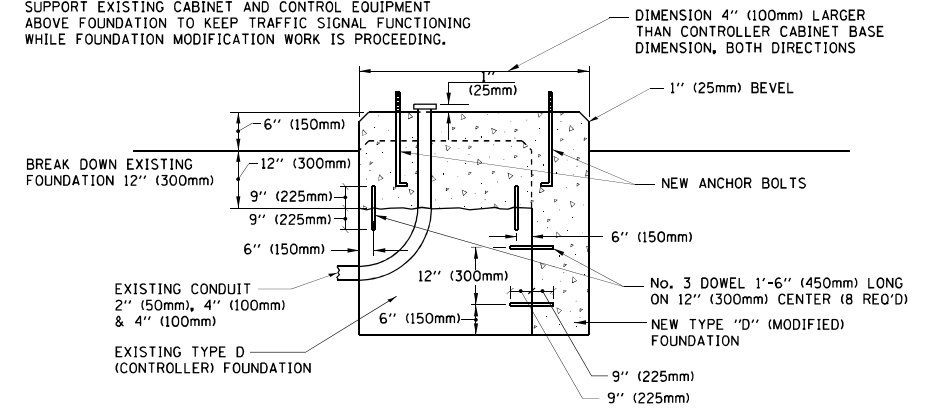
**SHROUD**

**NOTES:**

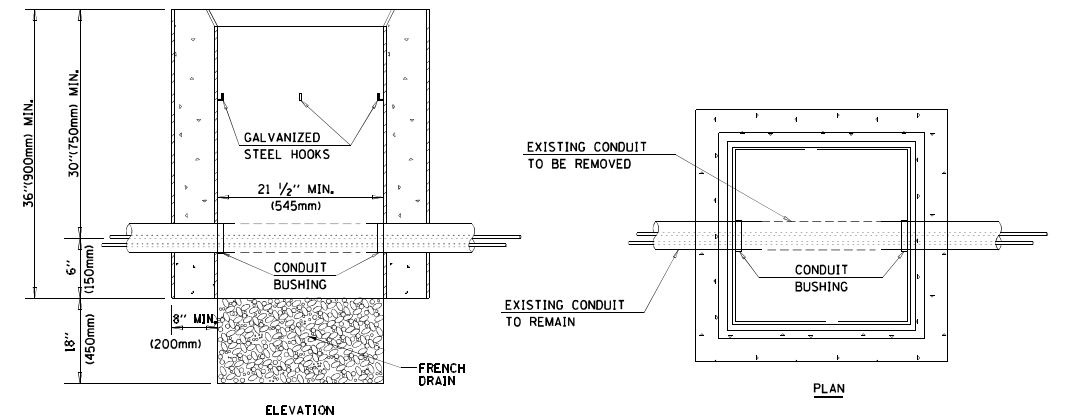
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

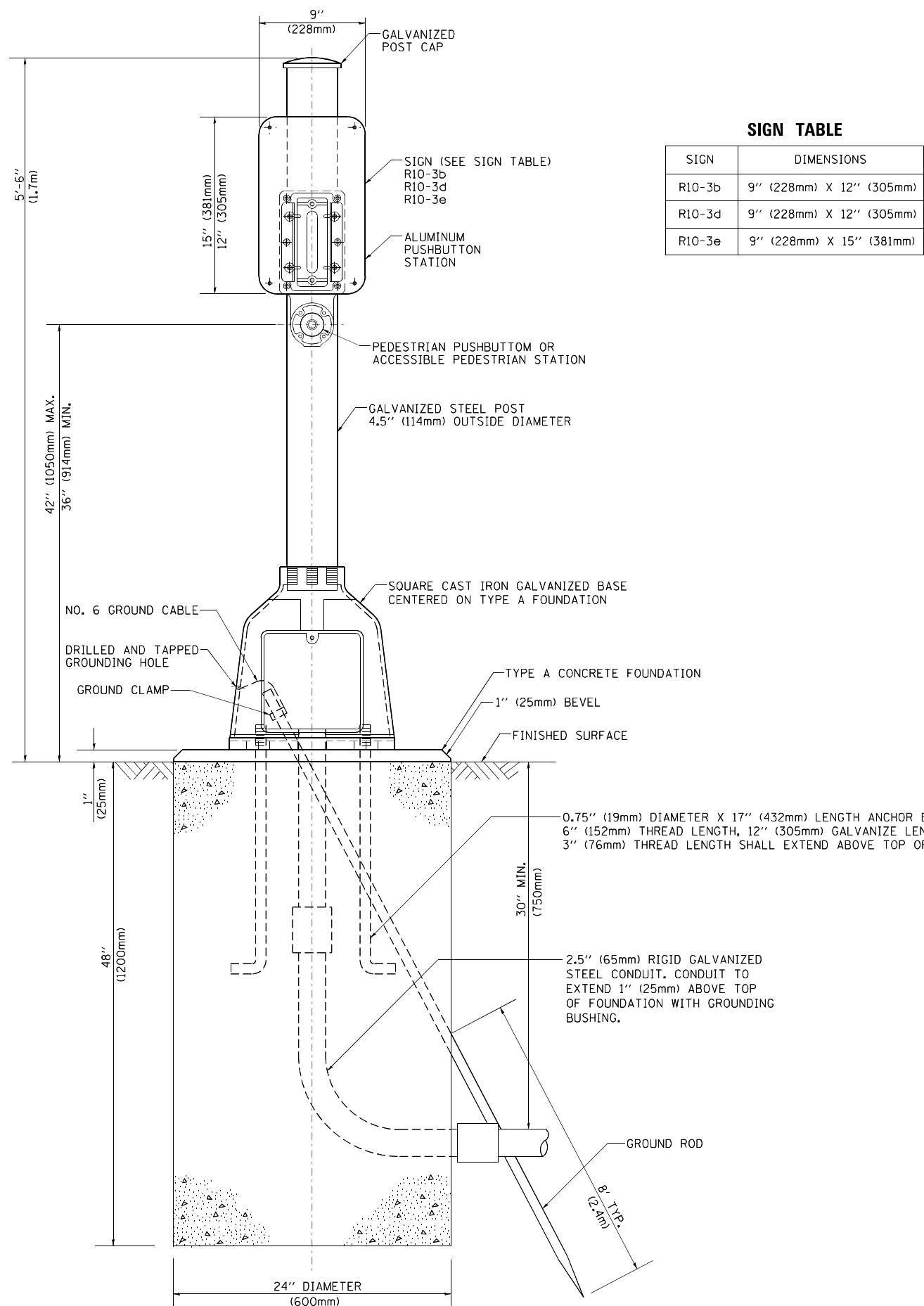
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|--|------------------------------|-----------------|----------------------|
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| os:\pr-work\pido\footejm\d0108315\ts05.dgn |                              | DRAWN - BCK     | REVISED -            |
|  | PLOT SCALE = 50.0000 / 1 in. | CHECKED - DAD   | REVISED -            |
|  | PLOT DATE = 1/13/2014        | DATE - 10-28-09 | REVISED -            |

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

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

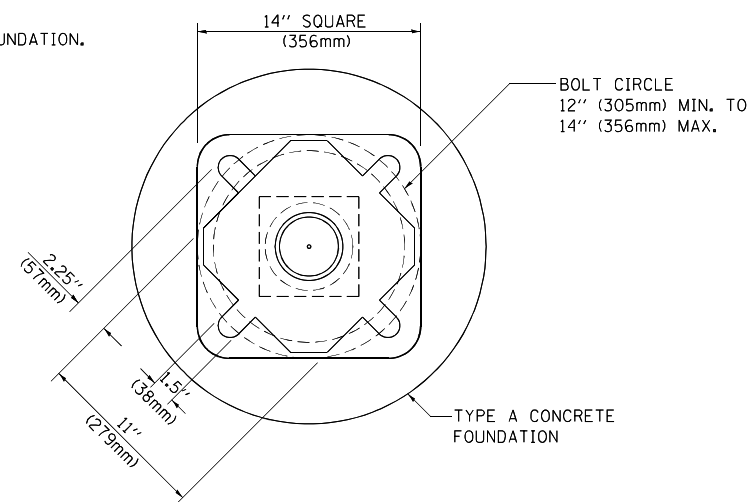
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

|   |            |              |              |           |
|---|------------|--------------|--------------|-----------|
| F.A. RTE.                                       | SECTION    | COUNTY       | TOTAL SHEETS | SHEET NO. |
|   | 2014-007TS | COOK         | 88           | 17        |
|   | TS-05      | CONTRACT NO. | 60X82        |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |            |              |              |           |



**SIGN TABLE**

| SIGN   | DIMENSIONS               |
|--------|--------------------------|
| R10-3b | 9" (228mm) X 12" (305mm) |
| R10-3d | 9" (228mm) X 12" (305mm) |
| R10-3e | 9" (228mm) X 15" (381mm) |



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

|   |                              |                  |                      |
|---|------------------------------|------------------|----------------------|
| FILE NAME =                               | USER NAME = footemj          | DESIGNED - DAG   | REVISED - DAG 1-1-14 |
| ca:\pwork\pwork\footemj\d0108315\ts05.dgn |                              | DRAWN - GND      | REVISED -            |
|   | PLOT SCALE = 50.0000 / 1 in. | CHECKED - DAD    | REVISED -            |
|   | PLOT DATE = 1/13/2014        | DATE - 10/1/2012 | REVISED -            |

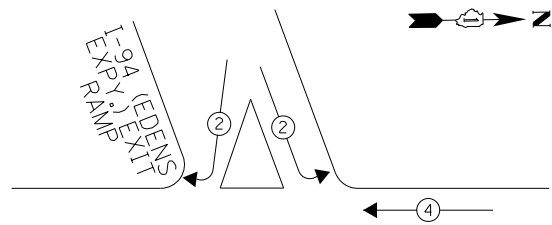
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

|   |            |                    |              |           |
|---|------------|--------------------|--------------|-----------|
| F.A. RTE.   | SECTION    | COUNTY             | TOTAL SHEETS | SHEET NO. |
|   | 2014-007TS | COOK               | 88           | 18        |
| TS-05   |            | CONTRACT NO. 60X82 |              |           |
| FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT |            |                    |              |           |

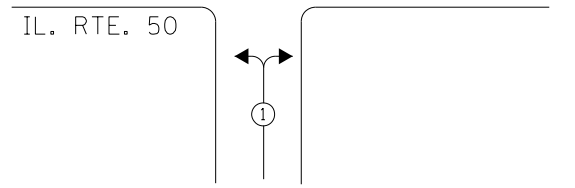
EXISTING CONTROLLER SEQUENCE



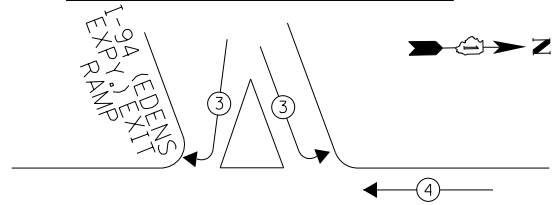
LEGEND

- → DUAL ENTRY PHASE
- → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

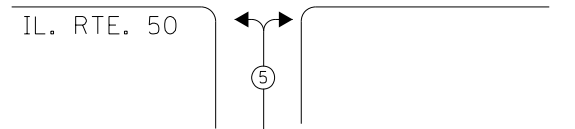
IL. RTE. 50 (CICERO AVE.)



PHASE DESIGNATION DIAGRAM



IL. RTE. 50 (CICERO AVE.)



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |   |   |
|------------------------------|---|---|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 | 5 | 6 |
| MOVEMENT                     | ↔ | ← | ↔ | → |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 18        | -               | 17          | 0.50       | 153.0         |
| (YELLOW)       | 18        | -               | 25          | 0.25       | 112.5         |
| (GREEN)        | 18        | -               | 15          | 0.25       | 67.5          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>458.0</b>  |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

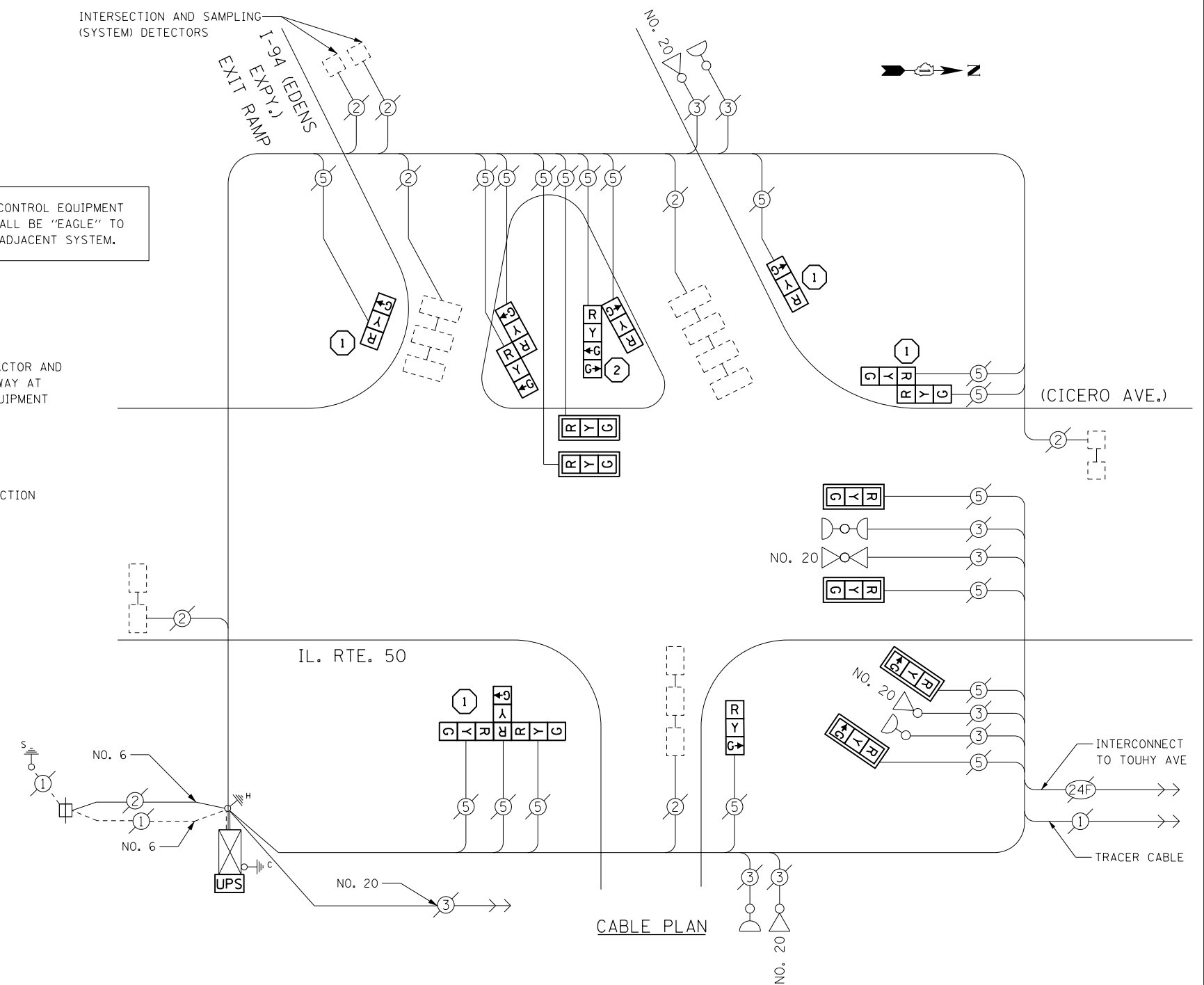
**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 5 EACH TRAFFIC SIGNAL POST
- 9 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 1-4 SECTION, 1-3 SECTION
- 1 EACH SIGNAL HEAD, 3-FACE, 3-SECTION

INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



CABLE PLAN

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                 | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                        | EACH | 4        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.                        | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED               | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                | EACH | 3        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED | EACH | 1        |
| SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED                | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                        | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET                                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                               | EACH | 1        |

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 2 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 15 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

|                                  |                             |                   |           |
|----------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-shr-1565.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                          | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                  | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                  |                             | DATE - 03/09/2014 | REVISED - |

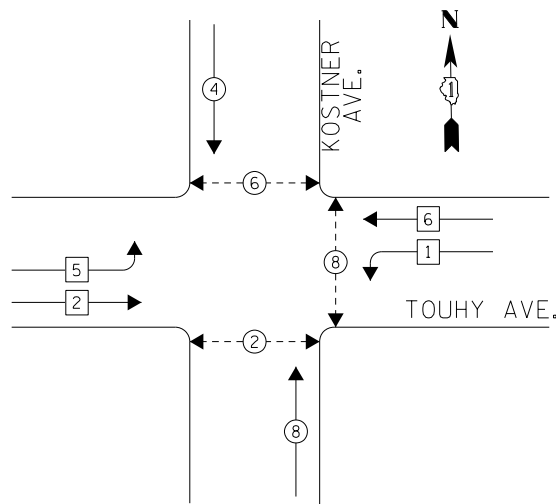
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

I-94 (EDENS EXPWY) EXIT RAMP AT IL RTE 50 (CICERO AVE) - CABLE PLAN, SCHED. OF QUANTITIES, PHASE DESIG. DIAG. & EVP SEQUENCE

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 19        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 65 LINCOLNWOOD

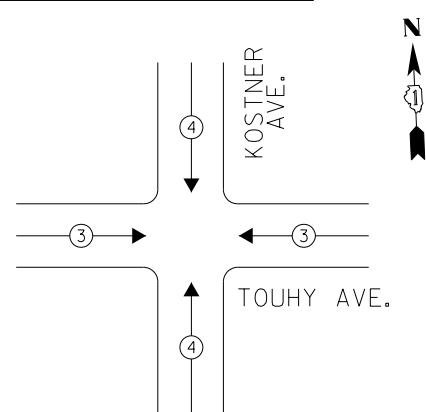
EXISTING CONTROLLER SEQUENCE



LEGEND

- ◉ DUAL ENTRY PHASE
- ◻ SINGLE ENTRY PHASE
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

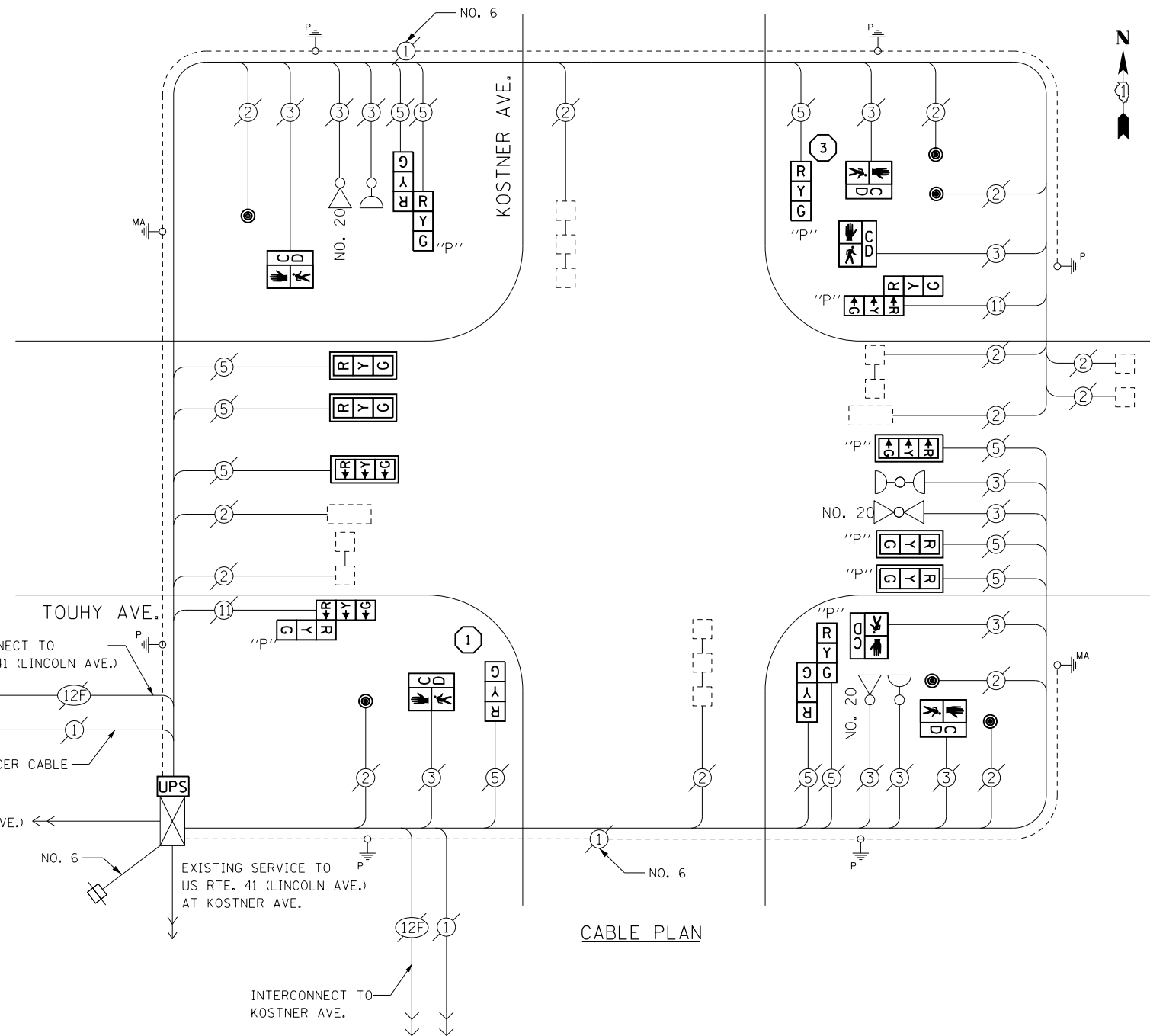
| EMERGENCY VEHICLE PREEMPTORS |    |    |
|------------------------------|----|----|
| EMERGENCY VEHICLE PREEMPTOR  | 3  | 4  |
| MOVEMENT                     | ←→ | ↑↓ |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH TRAFFIC SIGNAL POST
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



CABLE PLAN

SCHEDULE OF QUANTITIES

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.   | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.   | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 1        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                            | EACH | 1        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 3        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 6        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 6        |
| PEDESTRIAN PUSH-BUTTON   | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL  | EACH | 1        |

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION   | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|--------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50         | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25         | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25         | 60.0          |
| ARROW          | -         | -               | 12          | 0.10         | -             |
| PED. SIGNAL    | 6         | -               | 25          | 1.00         | 150.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00         | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50         | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00         | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00         | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50         | -             |
| FLASHER        | -         | -               | 25          | 0.50         | -             |
| <b>TOTAL =</b> |           |                 |             | <b>571.0</b> |               |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, IL 60196-1096**

ENERGY SUPPLY- **CONTACT TERRI BLECK**  
**PHONE 847-816-5239**  
**COMMONWEALTH EDISON**

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-shr-155835.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

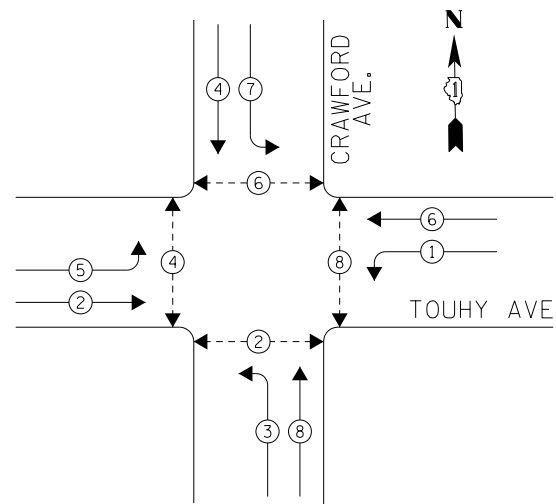
**TOUHY AVENUE AT KOSTNER AVENUE - CABLE PLAN**  
**SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**

SCALE: SHEET OF SHEETS STA. TO STA.

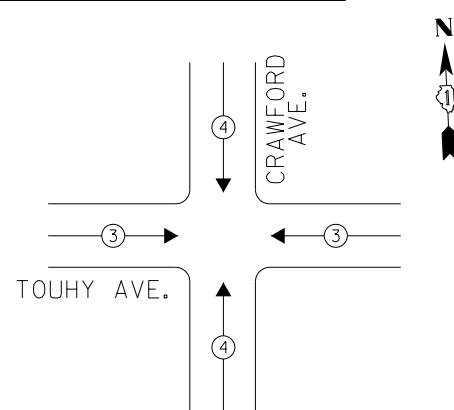
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 20        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 5835  
LINCOLNWOOD

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

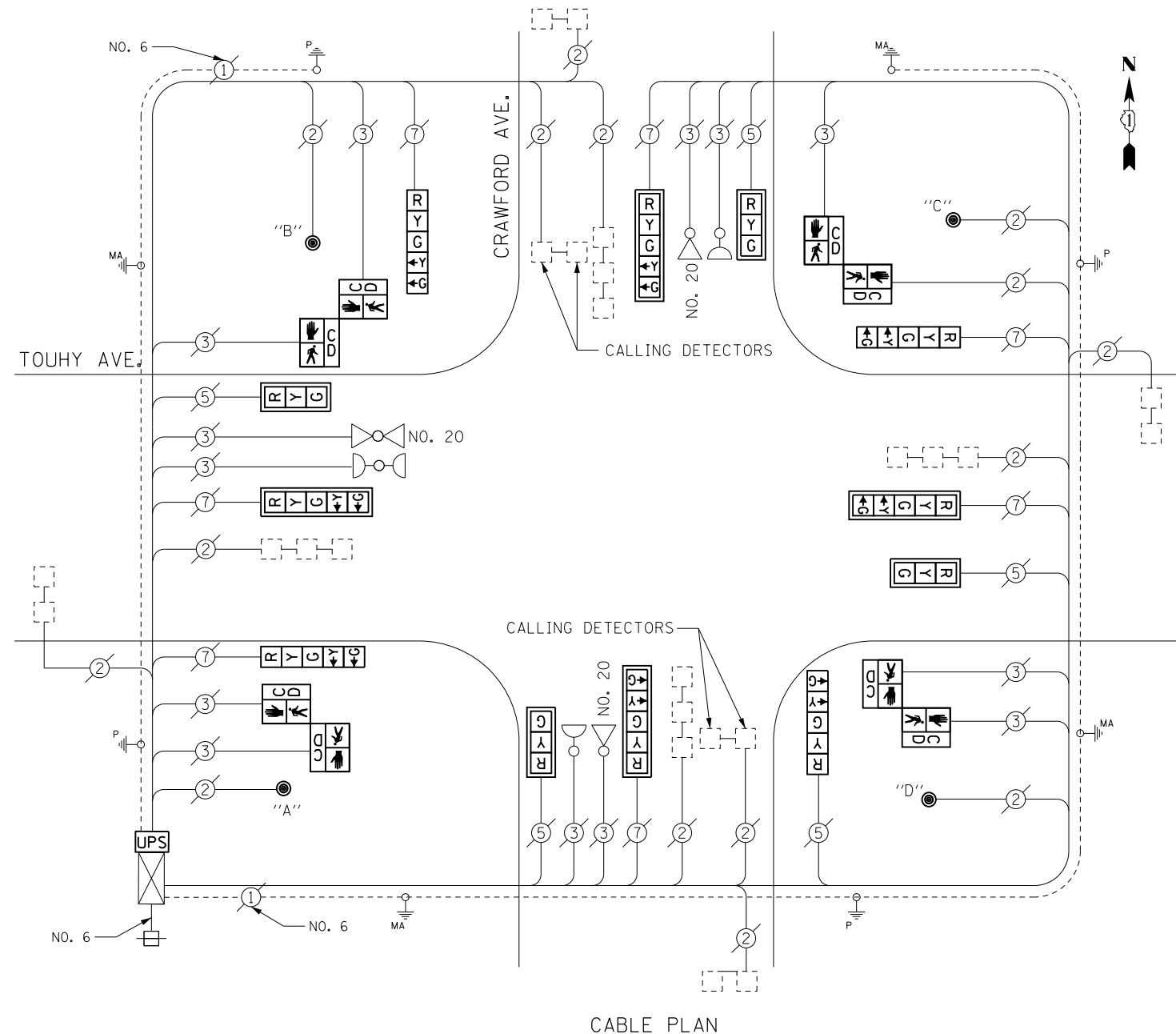
| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↑ ↓ |

LEGEND

- ⊙ → DUAL ENTRY PHASE
- ⊙ → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



CABLE PLAN

PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 4        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 4        |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>566.2</b>  |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-155825.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOUHY AVENUE AT CRAWFORD AVENUE - CABLE PLAN SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

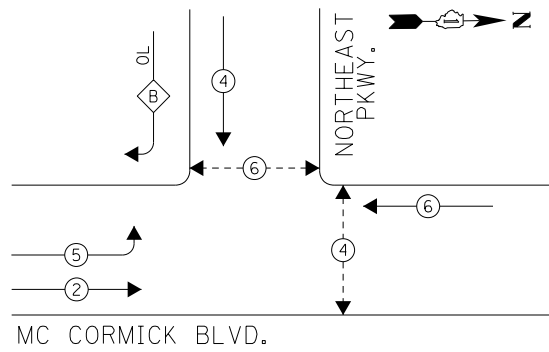
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 21        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 5825 LINCOLNWOOD



EXISTING CONTROLLER SEQUENCE



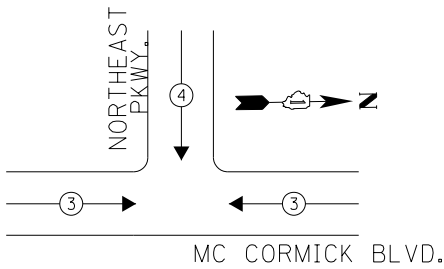
LEGEND

- DUAL ENTRY PHASE
- ◇ OVERLAP
- ⊖ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| B              | = 4              | + 5             |

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |   |
|------------------------------|-----|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4 |
| MOVEMENT                     | ← → | ↓ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

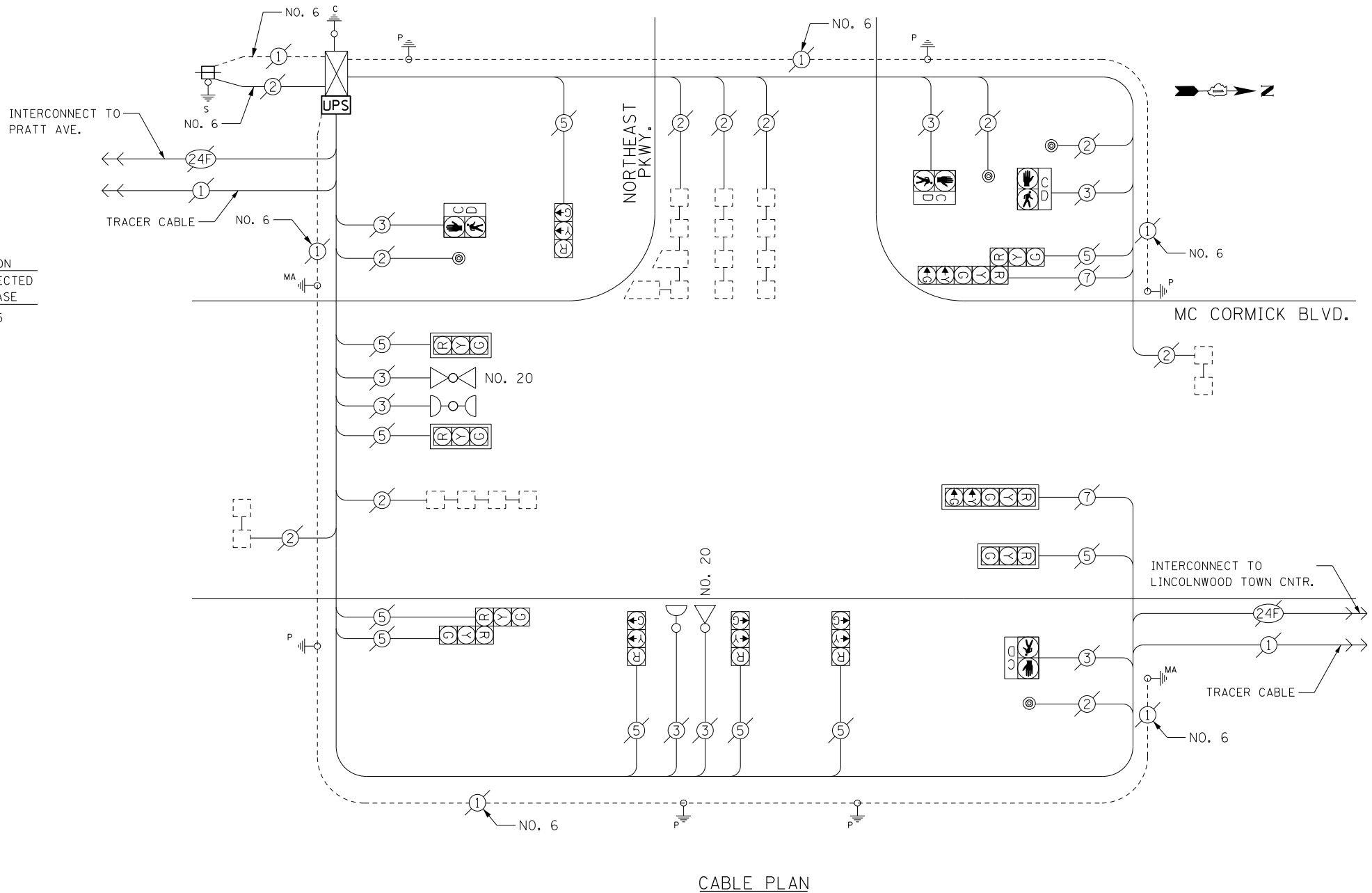
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 4         | -               | 12          | 0.10       | 4.8           |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 451.8         |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT TERRI BLECK  
PHONE 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL               | EACH | 1        |



CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 5477  
LINCOLNWOOD

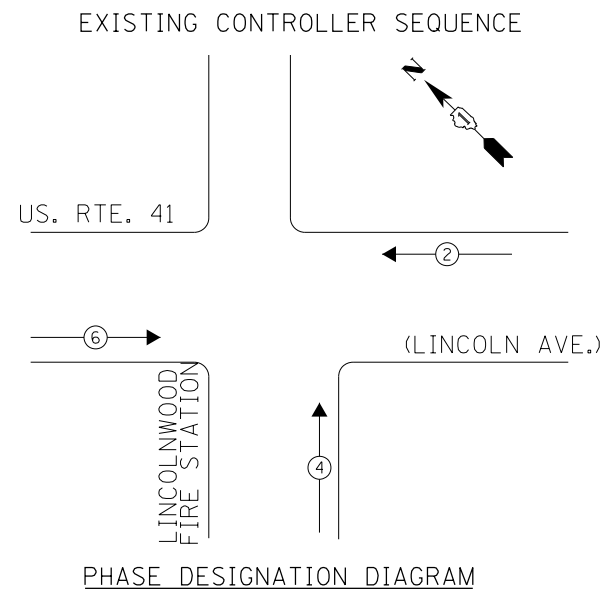
|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-155477.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MC CORMICK BLVD. AT NORTHEAST PKWY. - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

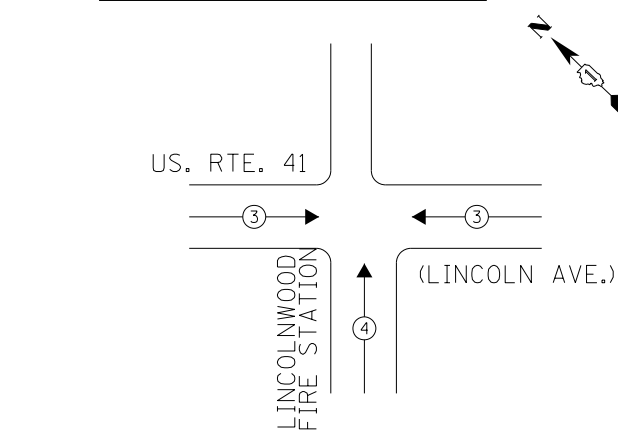
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 22        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



LEGEND

- → DUAL ENTRY PHASE
- → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

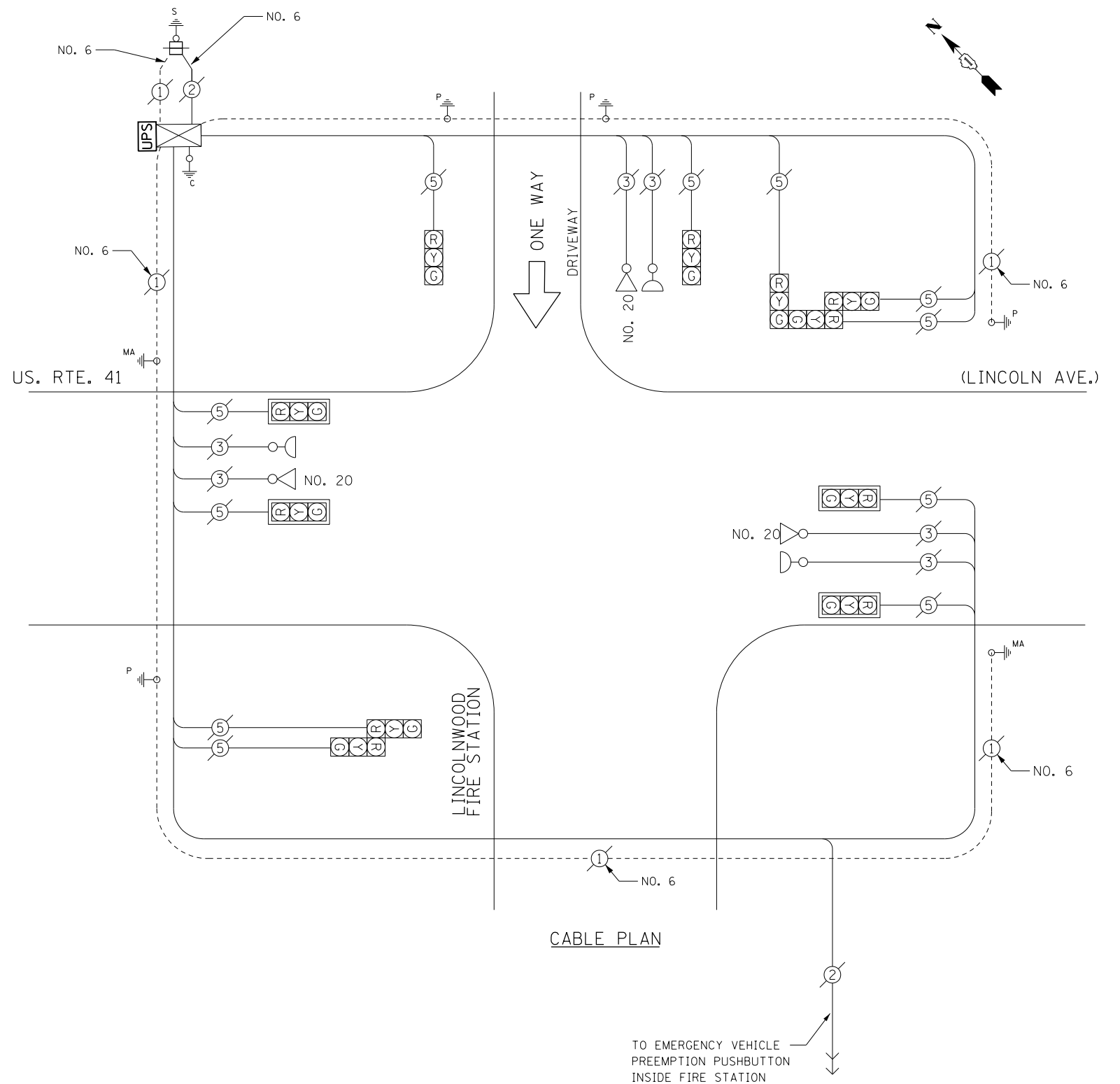
| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 11        | -               | 17  | 0.50       | 93.5          |
| (YELLOW)       | 11        | -               | 25  | 0.25       | 68.75         |
| (GREEN)        | 11        | -               | 15  | 0.25       | 41.25         |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | -         | -               | 25  | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25  | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -   | 0.50       | -             |
| FLASHER        | -         | -               | 25  | 0.50       | -             |
| TOTAL =        |           |                 |     |            | 328.5         |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL               | EACH | 1        |



|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-T55047.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

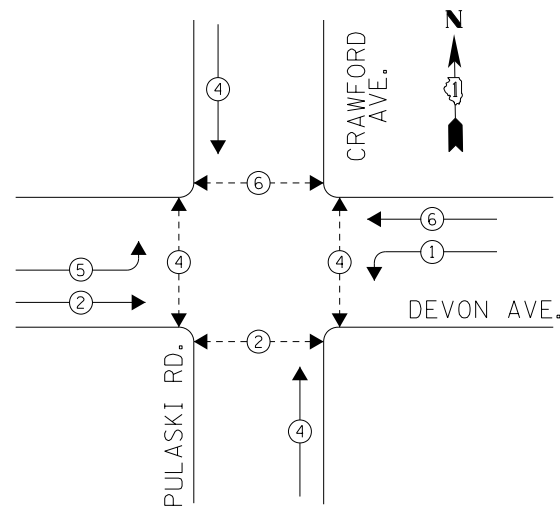
US. RTE. 41 (LINCOLN AVE.) AT FIRE STATION EXIT - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                    |            |        |                           |           |
|--------------------|------------|--------|---------------------------|-----------|
| F.A. RTE.          | SECTION    | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                    | 2014-007TS | COOK   | 88                        | 23        |
| CONTRACT NO. 60X82 |            |        | ILLINOIS FED. AID PROJECT |           |

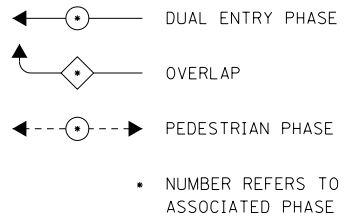
TS 5047  
LINCOLNWOOD

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

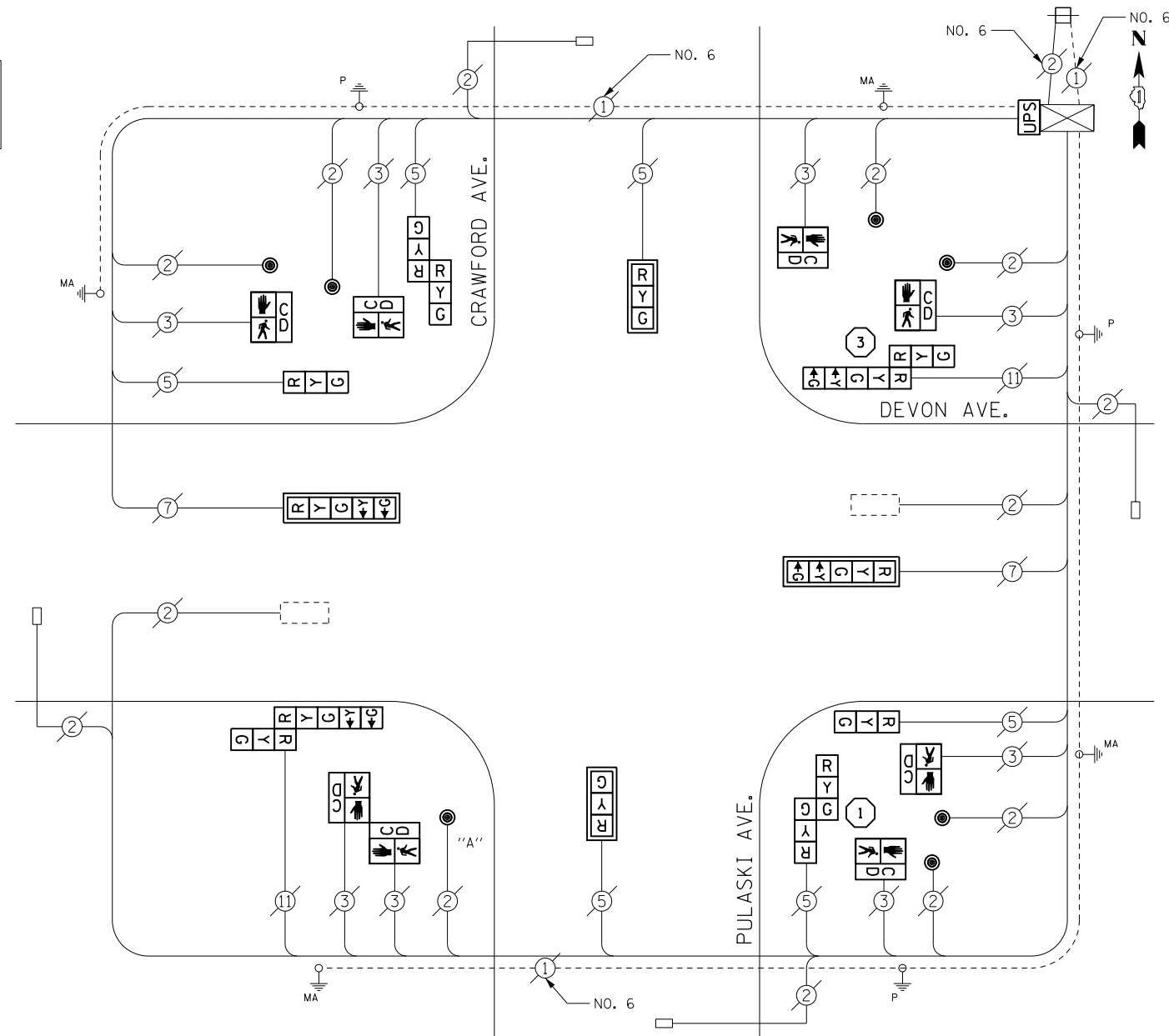


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON



CABLE PLAN

PUSHBUTTON NOTES:  
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17          | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25          | 0.25       | 87.5          |
| (GREEN)        | 14        | -               | 15          | 0.25       | 52.5          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>593.6</b>  |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT TERRI BLECK  
PHONE 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED       | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 7        |

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 4910  
LINCOLNWOOD

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-T54910.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

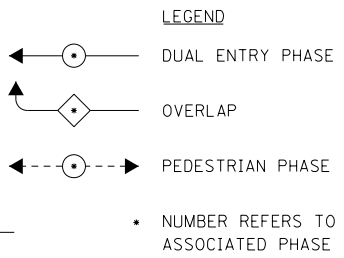
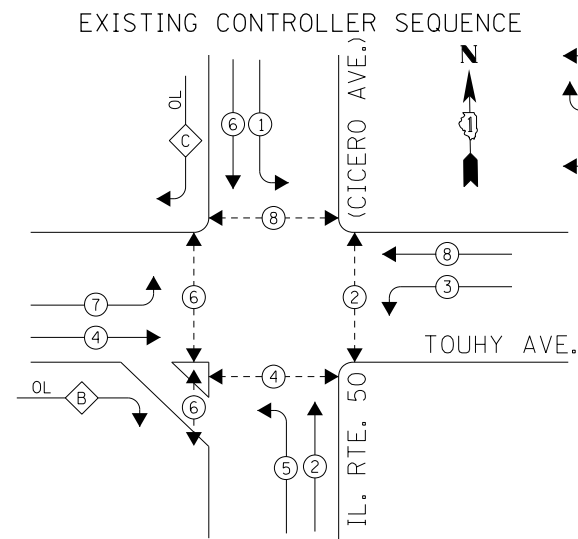
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DEVON AVE. AT PULASKI AVE./CRAWFORD AVE. - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

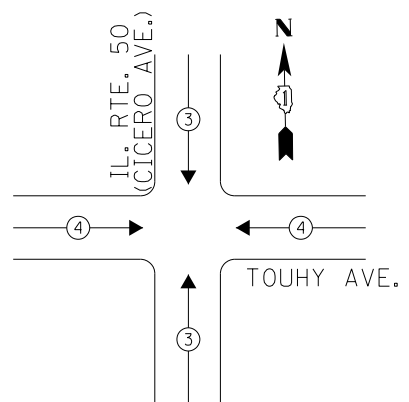
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 24        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |





| RIGHT TURN OVERLAP PHASE DESIGNATION |                  |                 |
|--------------------------------------|------------------|-----------------|
| OVERLAP LETTER                       | PERMISSIVE PHASE | PROTECTED PHASE |
| B                                    | = 4              | + 5             |
| C                                    | = 6              | + 7             |

PHASE DESIGNATION DIAGRAM



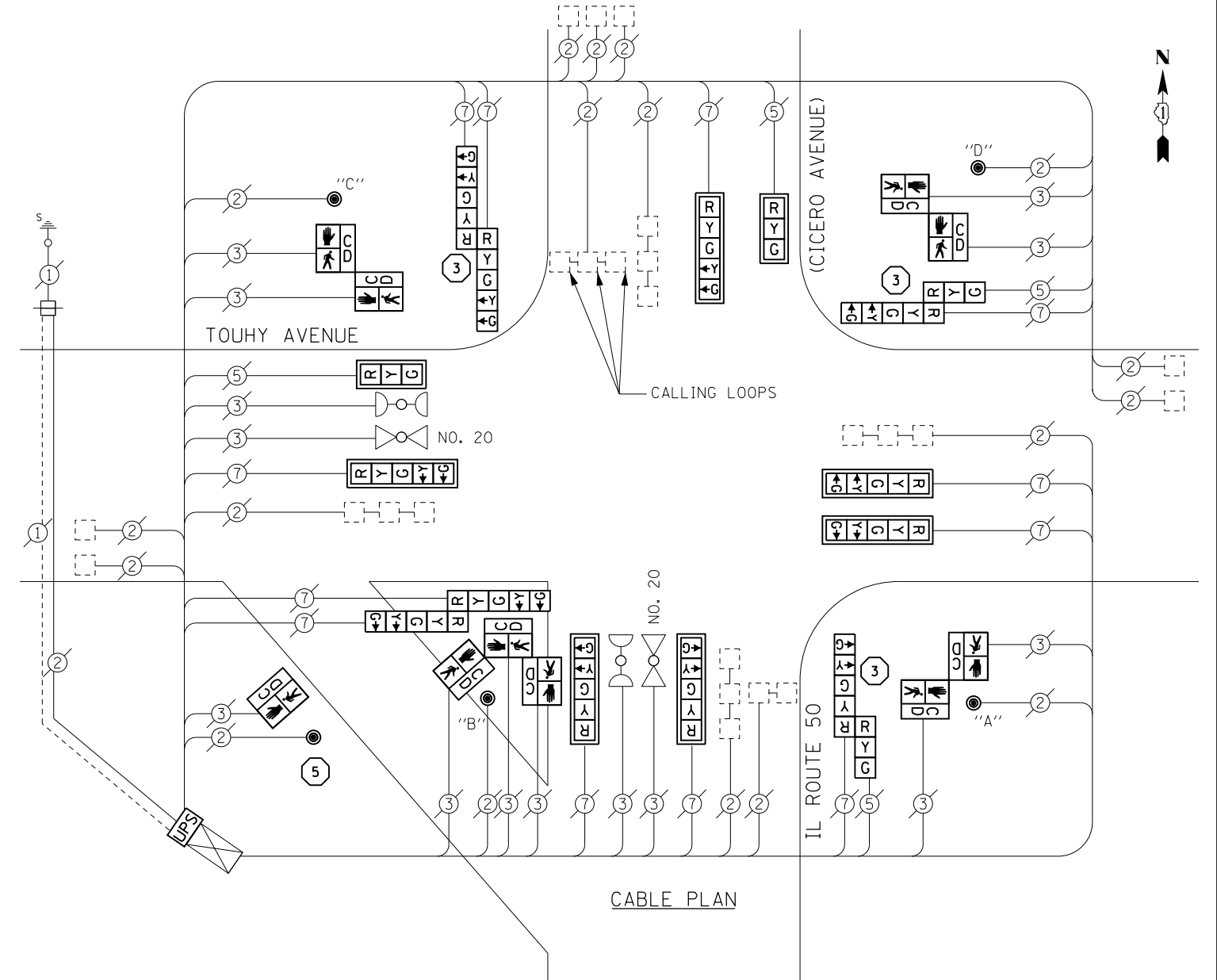
**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 6 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 1 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 3 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 3-FACE
- 5 EACH PEDESTRIAN PUSH-BUTTON

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ↓ ↑ | ← → |

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.



CABLE PLAN

**PUSHBUTTON NOTES:**  
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

**I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 24        | -               | 12          | 0.10       | 28.8          |
| PED. SIGNAL    | 10        | -               | 25          | 1.00       | 250.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>699.8</b>  |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

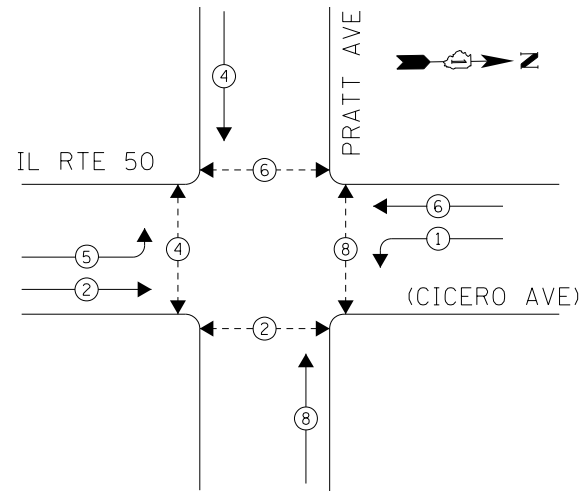
| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.                              | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 6        |
| SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED       | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 3        |
| PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 8        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 5        |

CONSTRUCTION NOTES

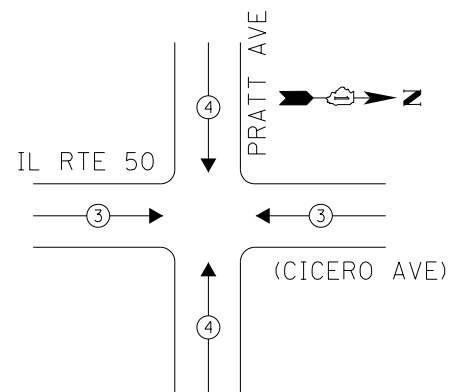
- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 5 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 10 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 2625  
 LINCOLNWOOD

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↑ ↓ |

- LEGEND**
- ← ● → DUAL ENTRY PHASE
  - ← ■ → SINGLE ENTRY PHASE
  - ← ● - - ● → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

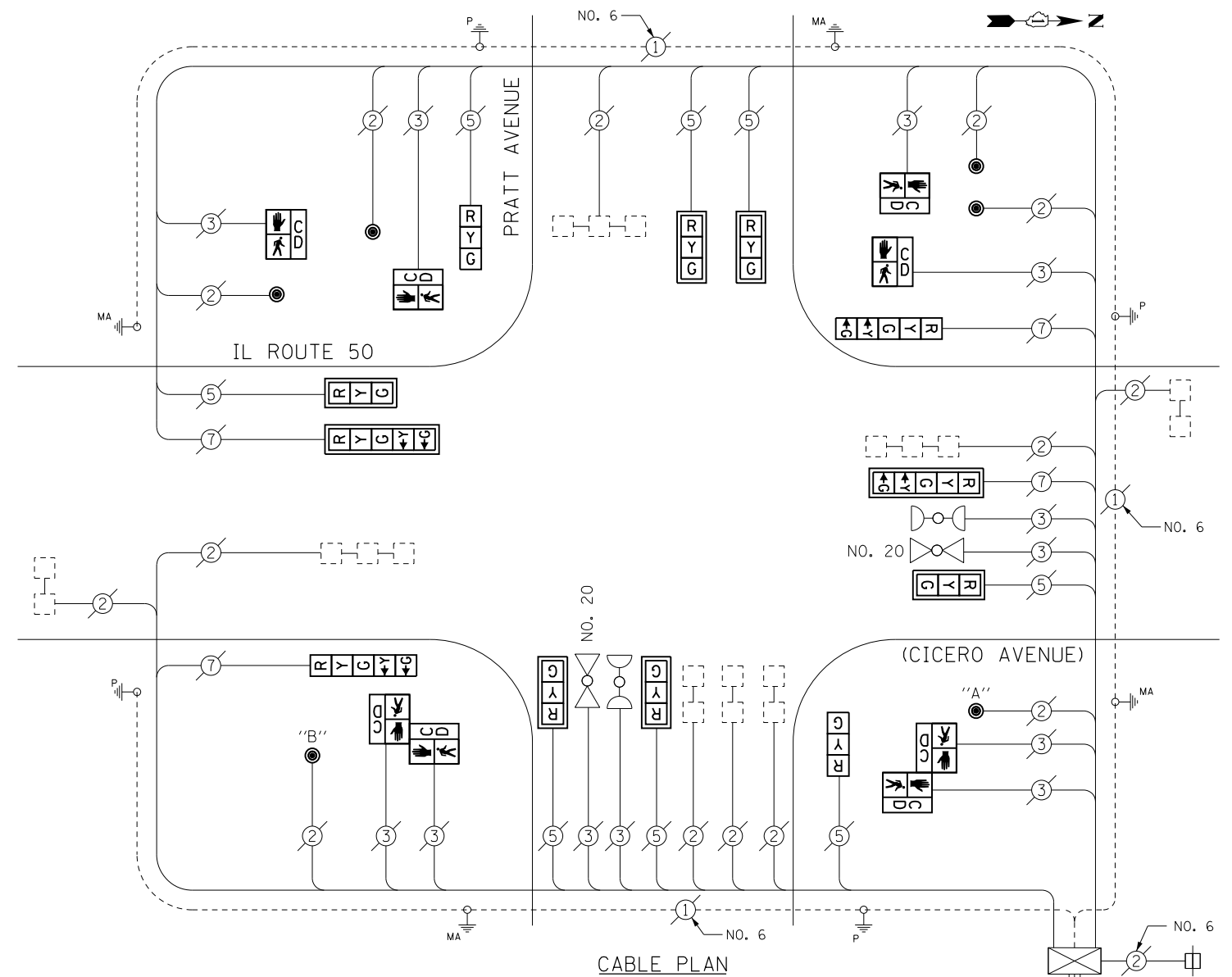
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED                              | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 6        |



PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 8
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 2 AND 4

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED.

2" UNDERGROUND CONDUIT GALVANIZED STEEL

TS 2605  
 LINCOLNWOOD

I. D. O. T.  
 TRAFFIC SIGNAL INSTALLATION  
 ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>556.6</b>  |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-shr-TS2605.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

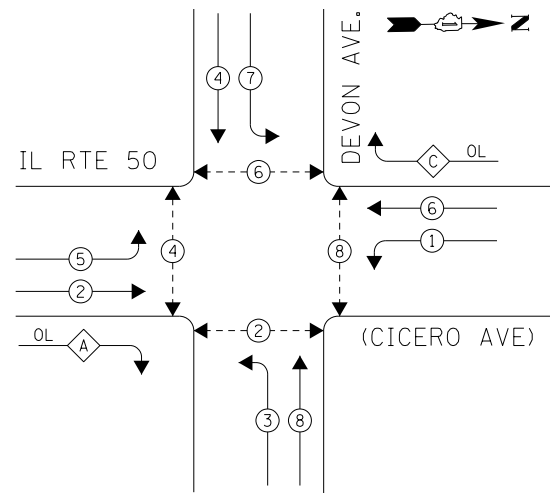
IL RTE. 50 (CICERO AVE.) AT PRATT AVE. - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

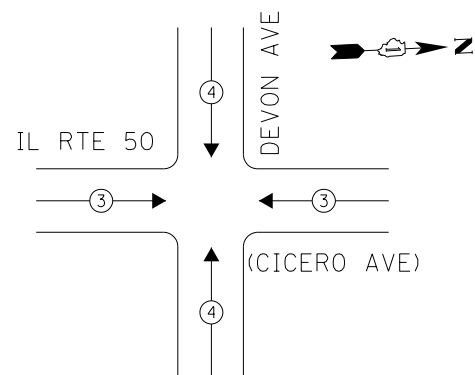
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 26        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↑ ↓ |

- LEGEND
- DUAL ENTRY PHASE
  - OVERLAP
  - PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| A              | = 2 + 3          |                 |
| C              | = 6 + 7          |                 |

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

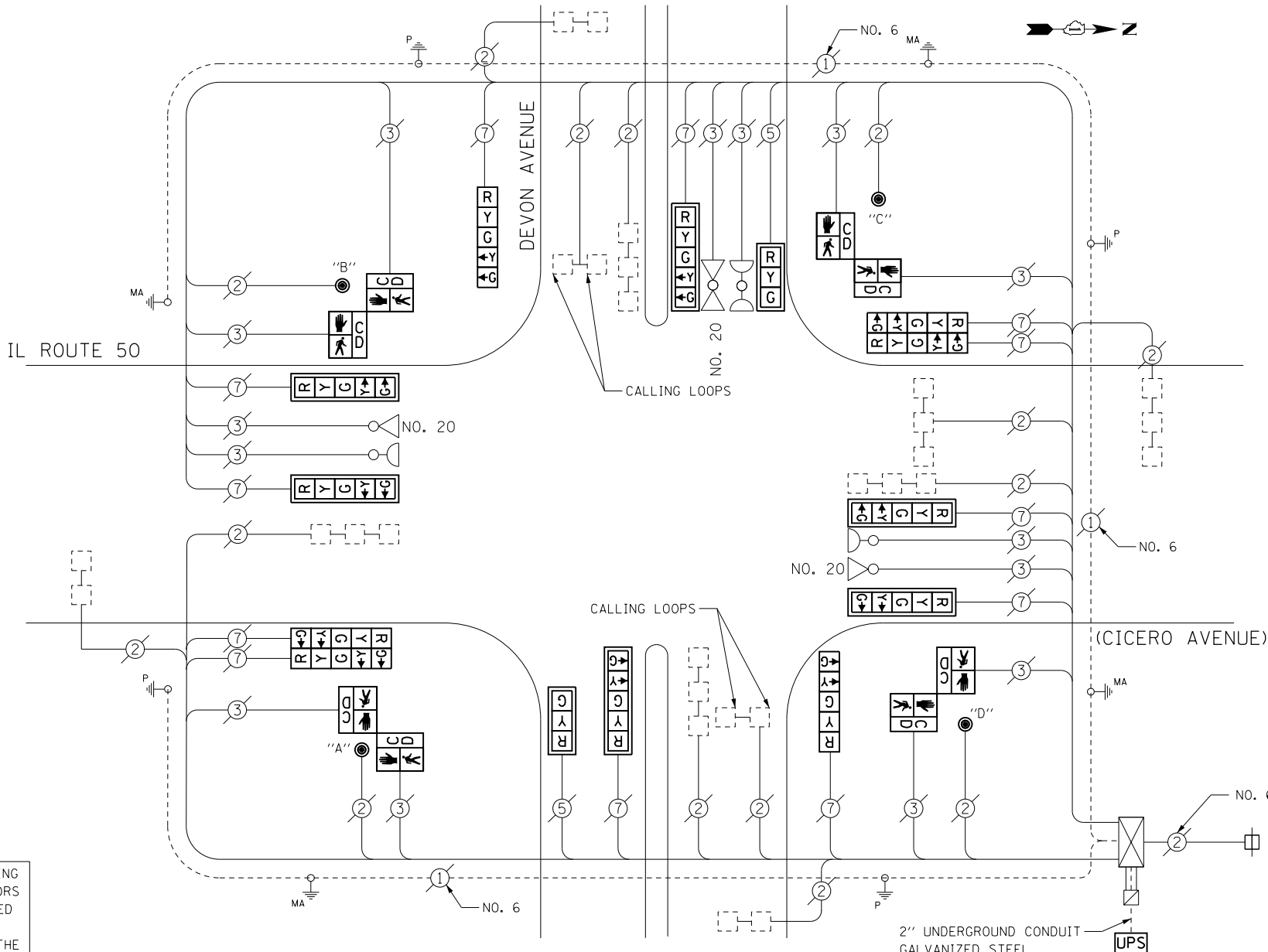
THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED.

PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED                              | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT             | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 4        |



CABLE PLAN

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17          | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25          | 0.25       | 87.5          |
| (GREEN)        | 14        | -               | 15          | 0.25       | 52.5          |
| ARROW          | 24        | -               | 12          | 0.10       | 28.8          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>612.8</b>  |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-shr-TS2590.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

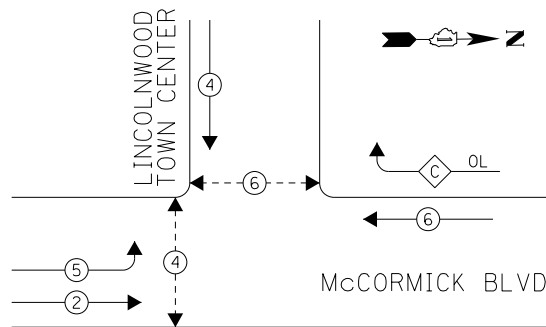
IL RTE 50 (CICERO AVE) AND DEVON AVE - CABLE PLAN SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 27        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

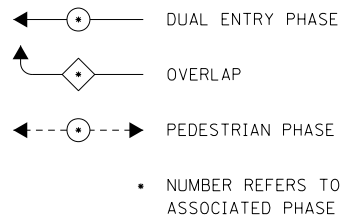
TS 2590 LINCOLNWOOD

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND



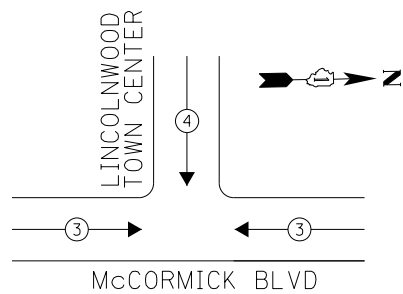
RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| C              | = 6              | + 4             |

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |   |
|------------------------------|-----|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4 |
| MOVEMENT                     | ← → | ↓ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

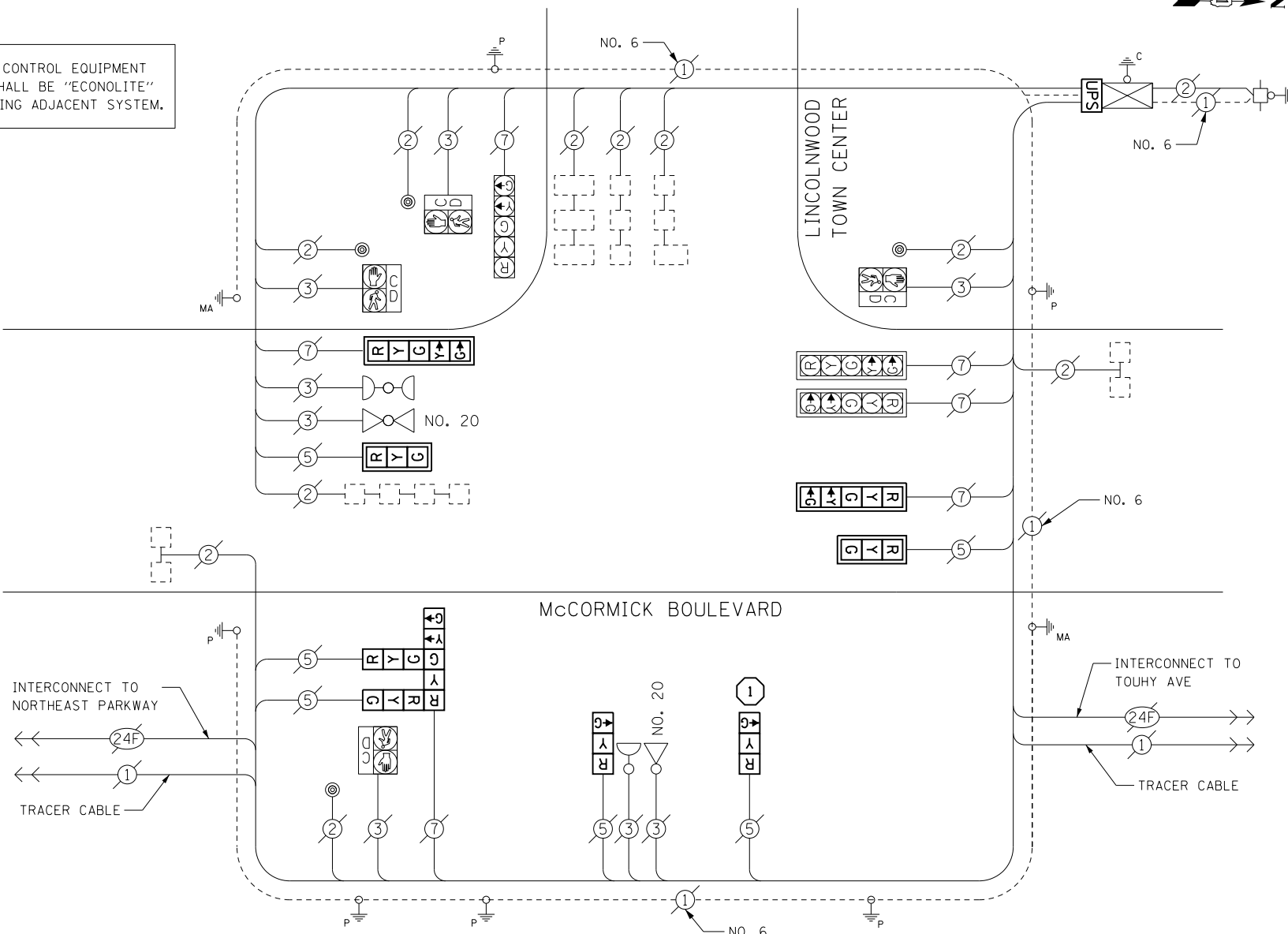
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 12        | -               | 12          | 0.10       | 14.4          |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 0.50       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 1.00       | -             |
| FLASHER        | -         | -               | -           | 0.05       | -             |
| TOTAL =        |           |                 |             |            | 461.4         |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                                  | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 2        |
| RELOCATE EXISTING SIGNAL HEAD   | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                      | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 2        |



CABLE PLAN

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

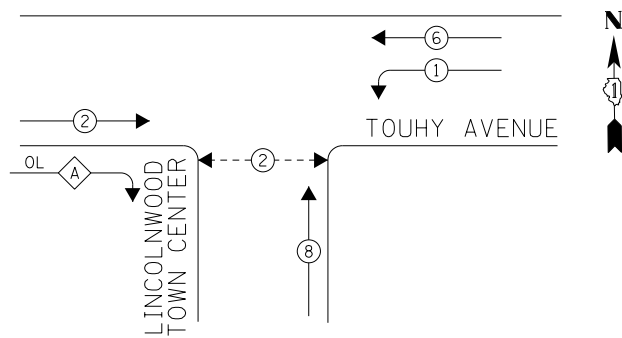
- 1 EACH TRAFFIC SIGNAL POST

CONSTRUCTION NOTES

1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 20395  
 LINCOLNWOOD

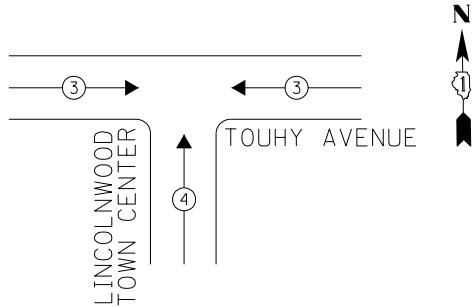
EXISTING CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| A              | = 2              | + 8             |

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |    |   |
|------------------------------|----|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3  | 4 |
| MOVEMENT                     | ←→ | ↑ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

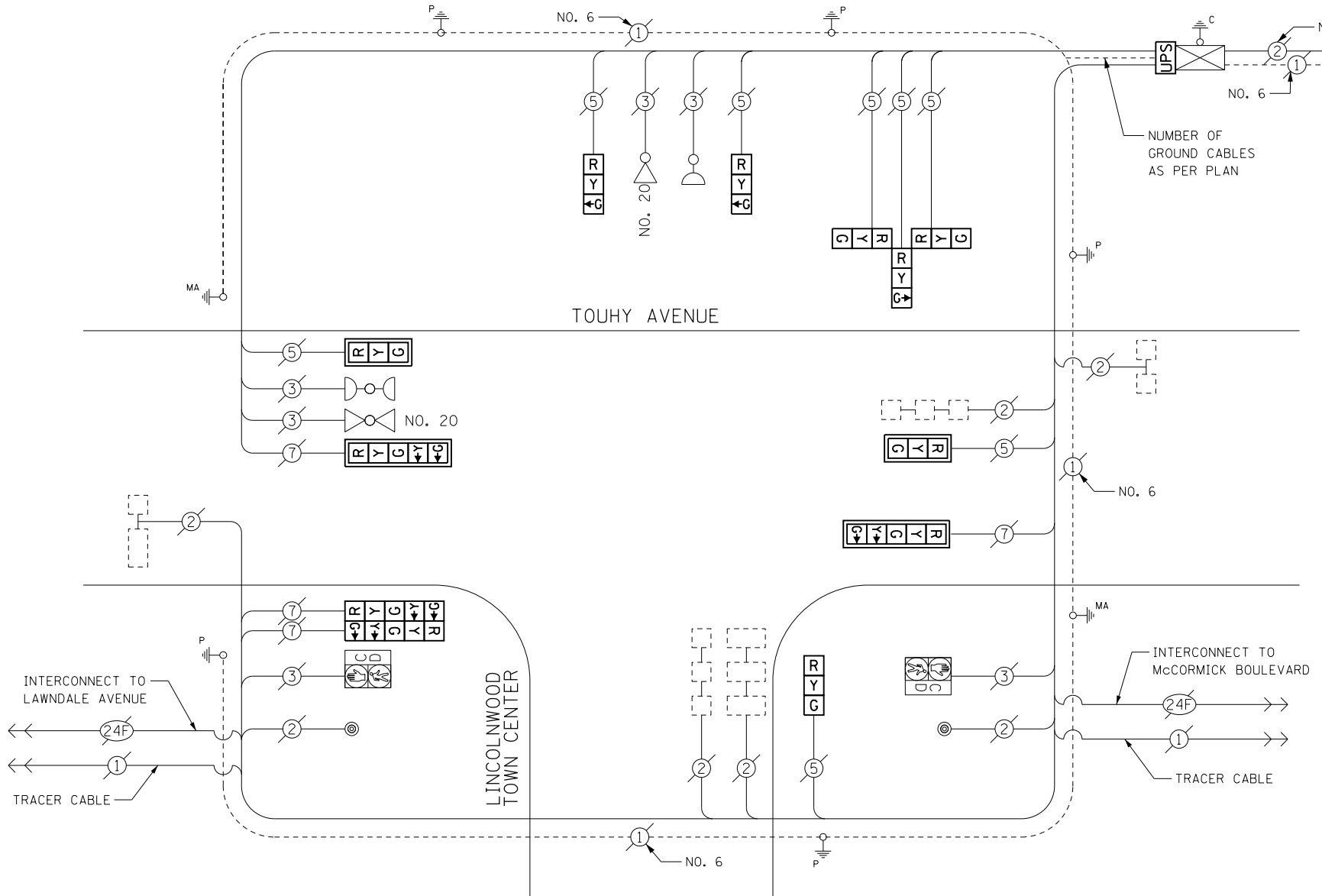
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 2         | -               | 25          | 1.00       | 50.0          |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 0.50       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25            |
| LUMINAIRE      | -         | -               | -           | 1.00       | -             |
| FLASHER        | -         | -               | -           | 0.05       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>406.6</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT TERRI BLECK**  
 PHONE **847-816-5239**  
 COMMONWEALTH EDISON

LEGEND

- ← ⊙ → DUAL ENTRY PHASE
- ← ⊙ → OVERLAP
- ← ⊙ → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

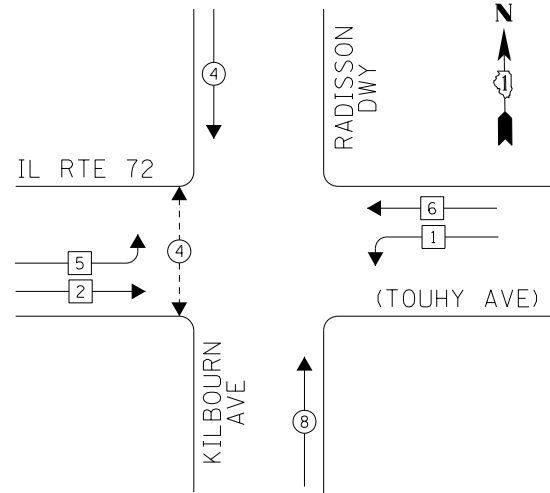
RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

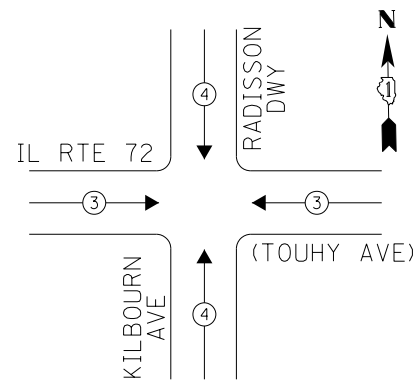
SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION             | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                    | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET                              | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                           | EACH | 1        |
| SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT  | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT  | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT   | EACH | 1        |

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

- LEGEND
- ← ○ → DUAL ENTRY PHASE
  - ← □ → SINGLE ENTRY PHASE
  - ← ◇ → OVERLAP
  - ← ○ - - ○ → PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 2         | -               | 25          | 1.00       | 50.0          |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>471.0</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT TERRI BLECK**  
 PHONE **847-816-5239**  
 COMMONWEALTH EDISON

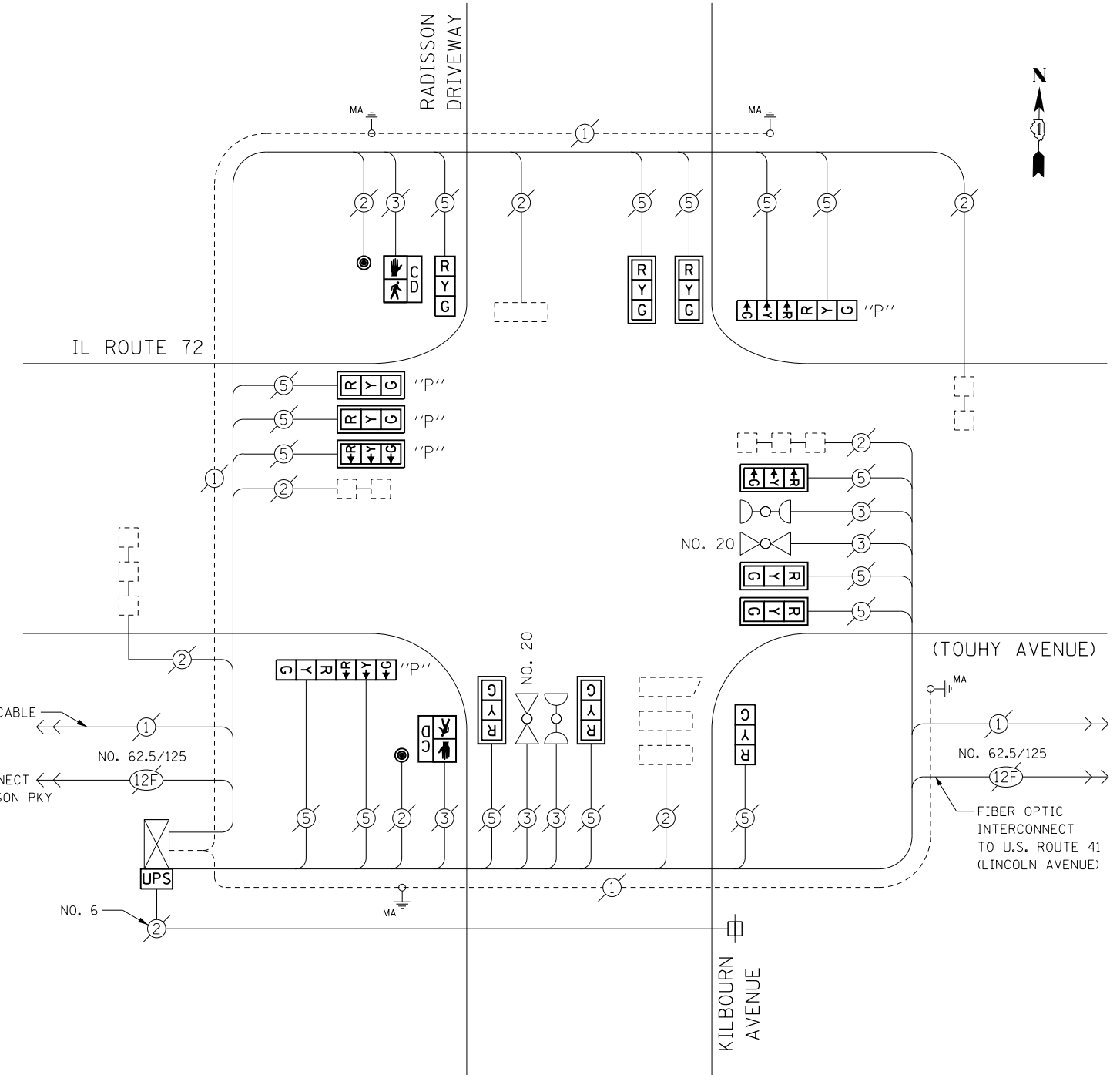
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SCHEDULE OF QUANTITIES

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  | EACH | 7        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 3        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 2        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 10       |
| PEDESTRIAN PUSH-BUTTON   | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL  | EACH | 1        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

|    |      |                                |
|----|------|--------------------------------|
| 12 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION |
| 2  | EACH | SIGNAL HEAD, 2-FACE, 3-SECTION |
| 2  | EACH | PEDESTRIAN SIGNAL HEAD, 1-FACE |
| 2  | EACH | PEDESTRIAN PUSH-BUTTON         |



CABLE PLAN

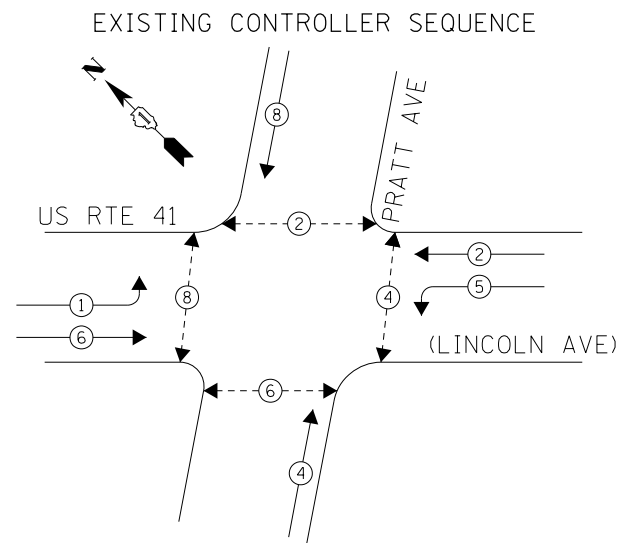
|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-TS1617.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL ROUTE 72 (TOUHY AVENUE) AT KILBOURN AVENUE - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 30        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

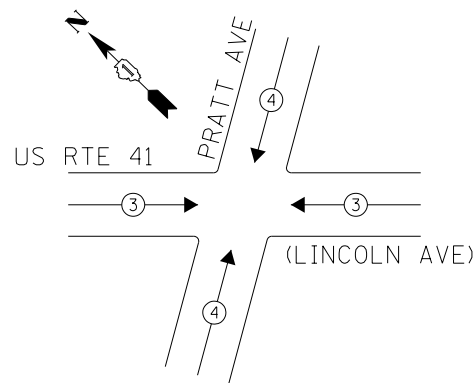
TS 1617 LINCOLNWOOD



**LEGEND**

- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

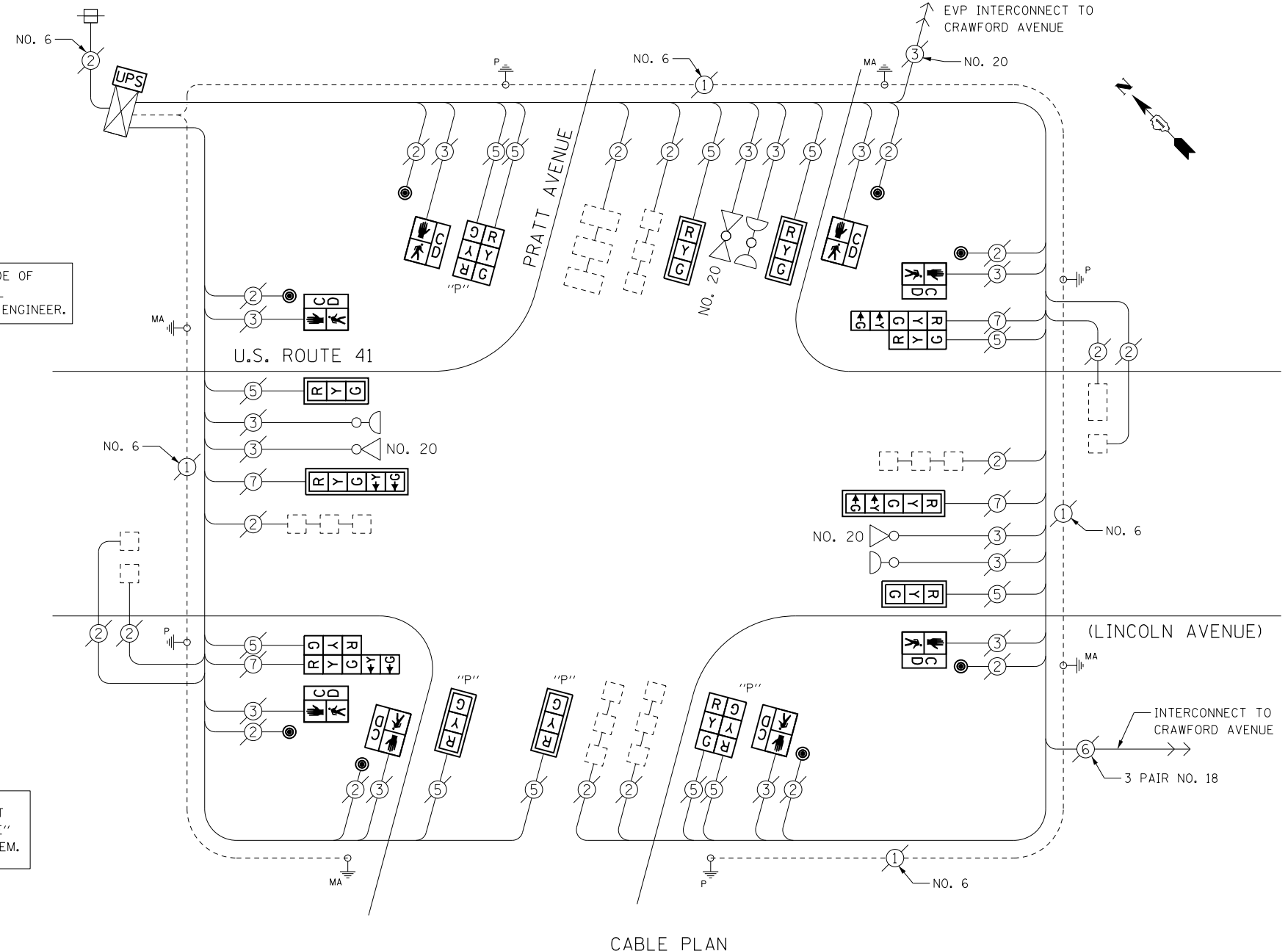


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |    |   |
|------------------------------|----|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3  | 4 |
| MOVEMENT                     | ←→ | ↕ |

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



CABLE PLAN

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON

**SCHEDULE OF QUANTITIES**

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED  | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED                                  | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 2        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 8        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 8        |
| PEDESTRIAN PUSH-BUTTON   | EACH | 8        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL  | EACH | 1        |

**I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>630.6</b>  |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

TS 1610  
LINCOLNWOOD

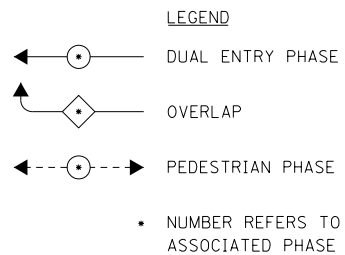
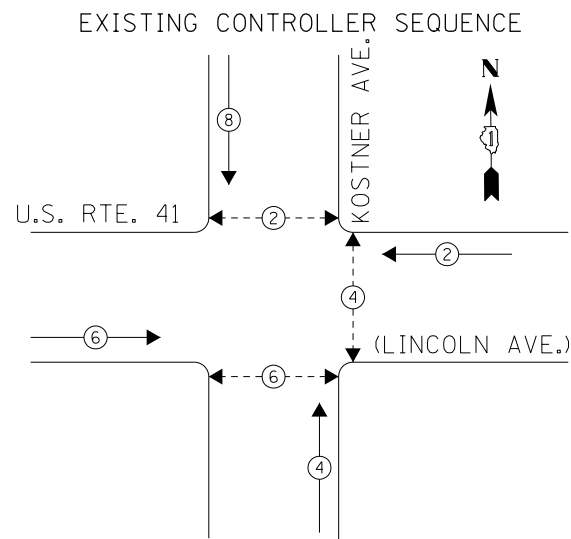
|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-shr-TS1610.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 41 (LINCOLN AVE) AT PRATT AVENUE - CABLE PLAN SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 31        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



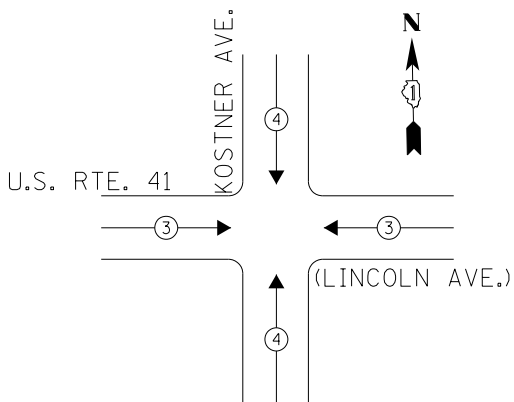
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED.

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17          | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25          | 0.25       | 87.5          |
| (GREEN)        | 14        | -               | 15          | 0.25       | 52.5          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 6         | -               | 25          | 1.00       | 150.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | 25              | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>534.0</b>  |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

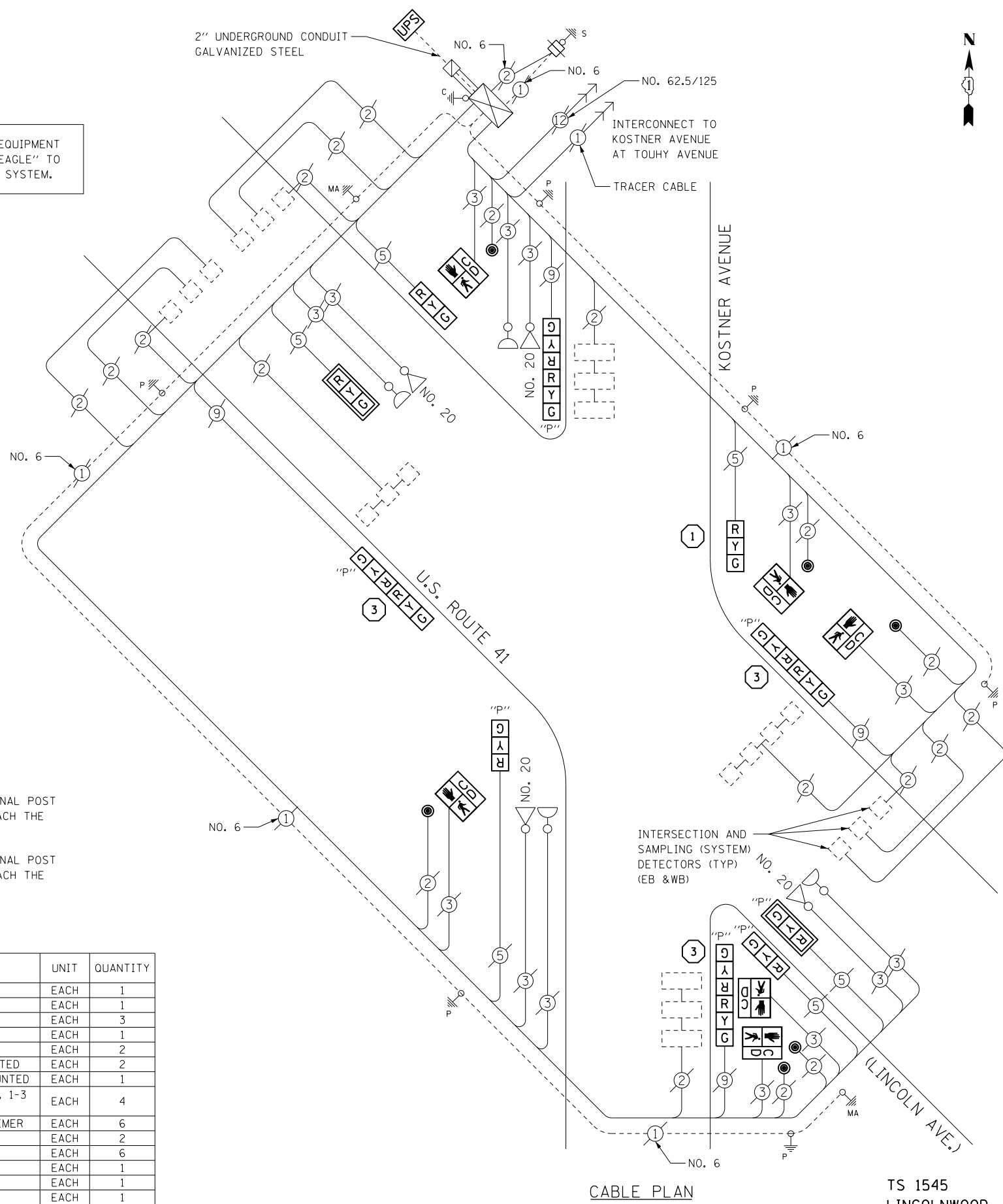
ENERGY SUPPLY- CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

SCHEDULE OF QUANTITIES

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.   | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.   | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED  | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                            | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 1        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 6        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON   | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED   | EACH | 1        |



CABLE PLAN

TS 1545  
LINCOLNWOOD

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS1545.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 41 (LINCOLN AVENUE) AT KOSTNER AVENUE - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

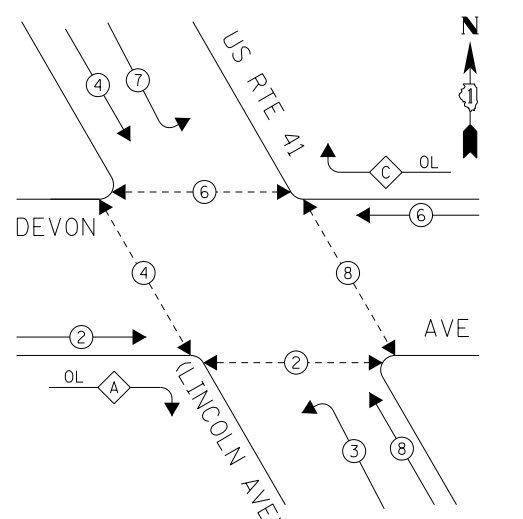
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 32        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

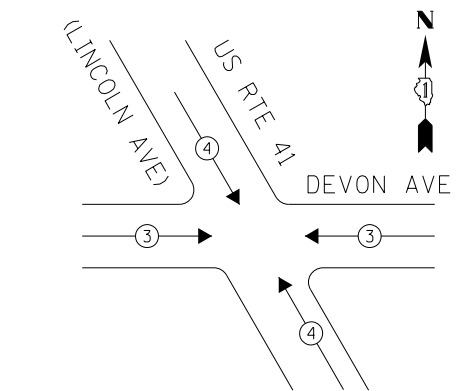




EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



LEGEND

- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

| RIGHT TURN OVERLAP PHASE DESIGNATION |                  |                 |
|--------------------------------------|------------------|-----------------|
| OVERLAP LETTER                       | PERMISSIVE PHASE | PROTECTED PHASE |
| A                                    | = 2              | + 3             |
| C                                    | = 6              | + 7             |

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |    |    |
|------------------------------|----|----|
| EMERGENCY VEHICLE PREEMPTOR  | 3  | 4  |
| MOVEMENT                     | ←→ | ↙↘ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>640.2</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, IL 60196-1096**

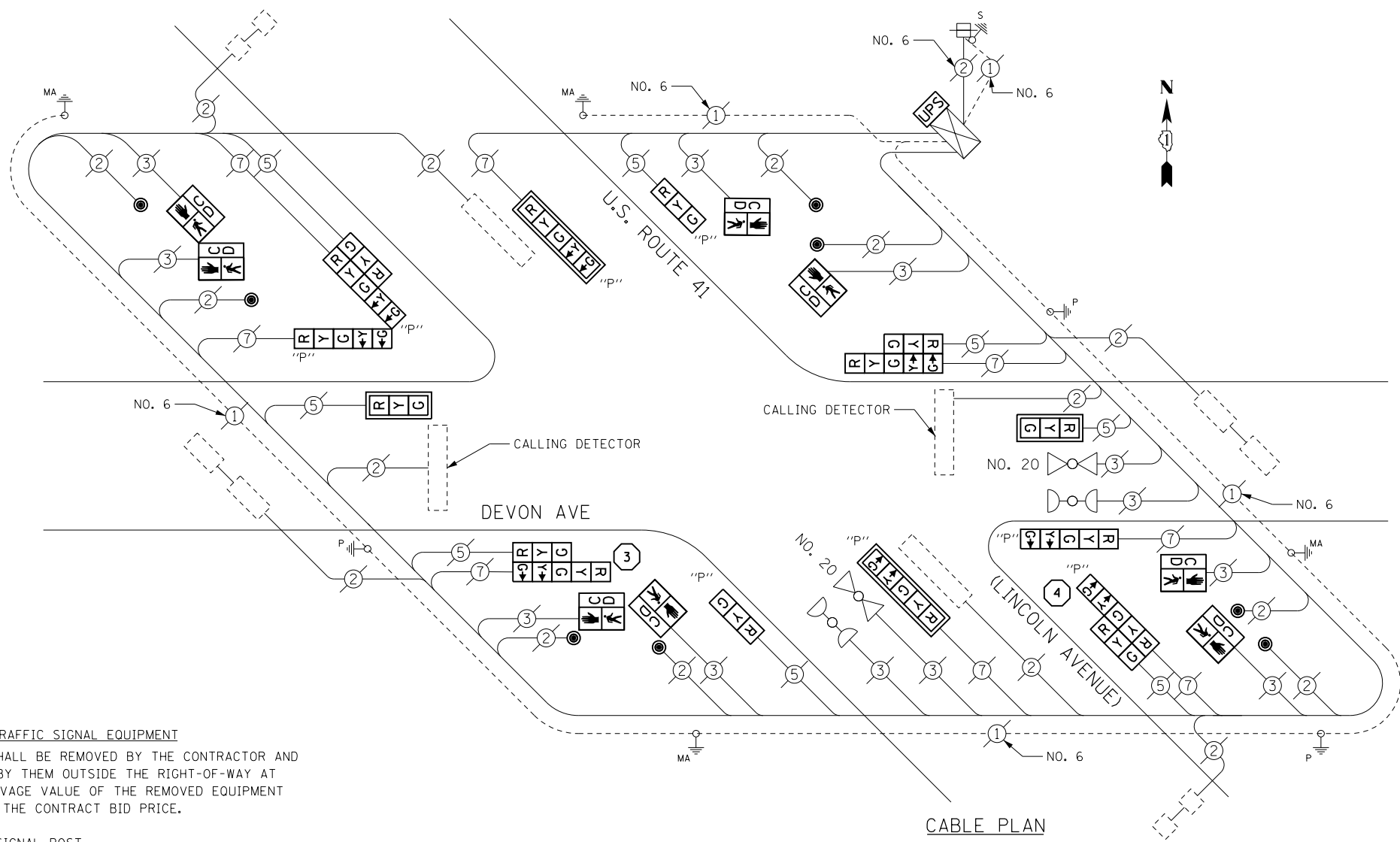
ENERGY SUPPLY- **CONTACT TERRI BLECK**  
**PHONE 847-816-5239**  
**COMMONWEALTH EDISON**

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 3 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 3 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 1 EACH SIGNAL HEAD, 3-FACE, 2-5 SECTION, 1-3 SECTION
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

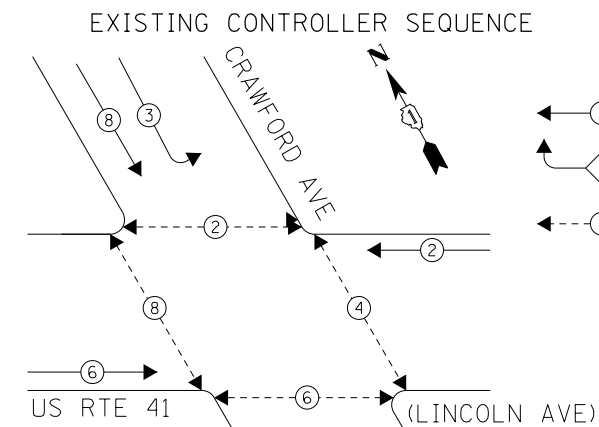
| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.   | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.   | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED                                  | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                            | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                            | EACH | 1        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED                           | EACH | 2        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 1        |
| COMBINATION SIGNAL HEAD, LED, 3-FACE, 2-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 6        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 4        |
| PEDESTRIAN PUSH-BUTTON   | EACH | 8        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL  | EACH | 1        |



CONSTRUCTION NOTES

- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 4 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 18 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

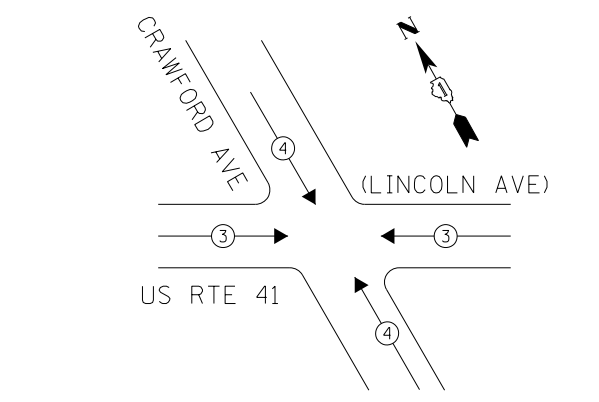
TS 1505  
 LINCOLNWOOD



**LEGEND**

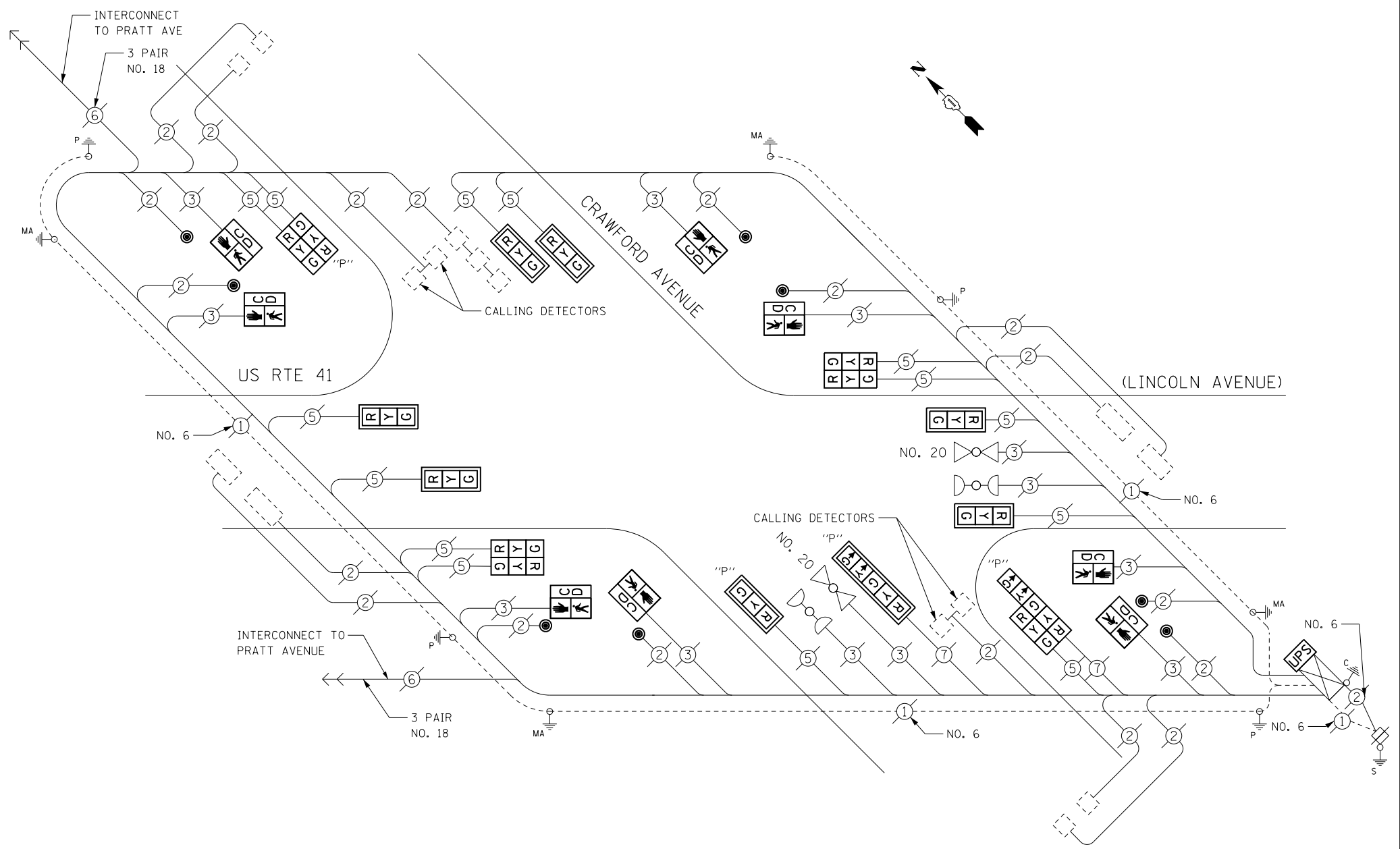
- ← ○ → DUAL ENTRY PHASE
- ◊ OVERLAP
- ← ○ → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**



**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**

| EMERGENCY VEHICLE PREEMPTORS |     |   |
|------------------------------|-----|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4 |
| MOVEMENT                     | ← → | ↔ |



**I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 4         | -               | 12          | 0.10       | 4.8           |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>625.8</b>  |

**ENERGY COSTS- BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY- CONTACT: TERRI BLECK**  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

**SCHEDULE OF QUANTITIES**

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  | EACH | 6        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 1        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED                           | EACH | 1        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 1        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 8        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 8        |
| PEDESTRIAN PUSH-BUTTON   | EACH | 8        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL  | EACH | 1        |

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

|   |      |   |
|---|------|---|
| 7 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION                |
| 1 | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION                |
| 3 | EACH | SIGNAL HEAD, 2-FACE, 3-SECTION                |
| 1 | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION |
| 8 | EACH | PEDESTRIAN SIGNAL HEAD, 1-FACE                |
| 8 | EACH | PEDESTRIAN PUSH-BUTTON                        |

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-shr-TS1500.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

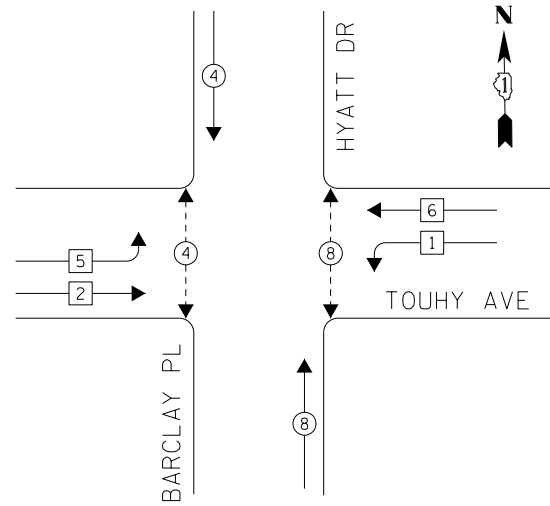
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**US RTE 41 (LINCOLN AVE) AT CRAWFORD AVE - CABLE PLAN SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**

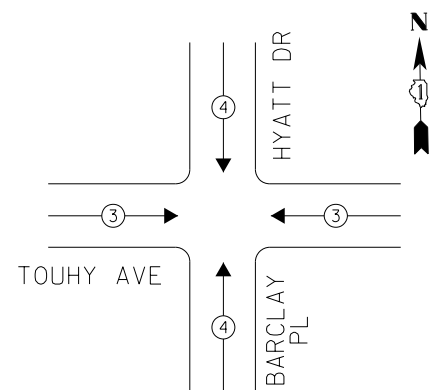
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 34        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 1500  
LINCOLNWOOD

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

LEGEND

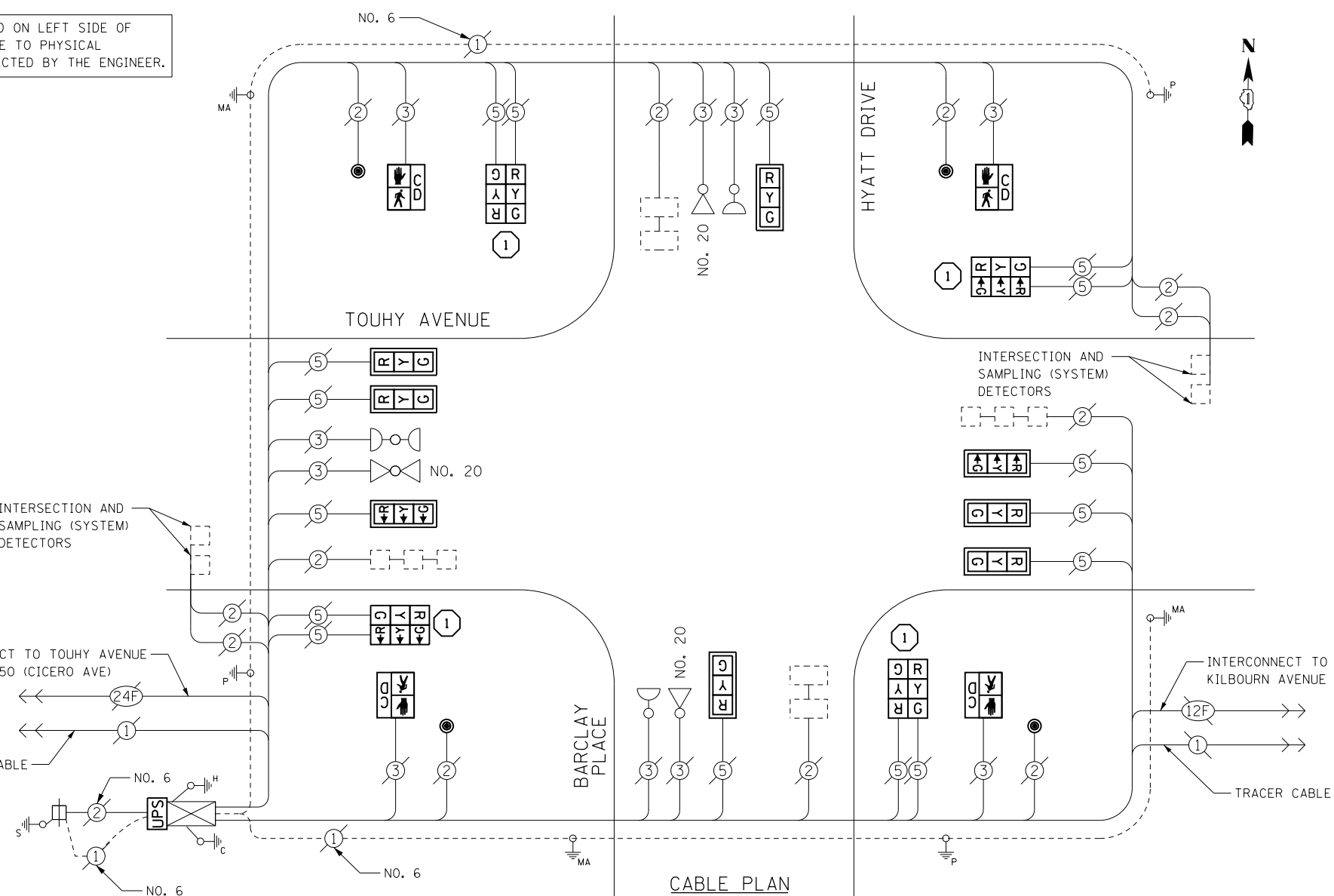
- ◉ DUAL ENTRY PHASE
- ◻ SINGLE ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO TOUHY AVENUE AT IL RTE 50 (CICERO AVE)

TRACER CABLE



CABLE PLAN

INTERCONNECT TO KILBOURN AVENUE

TRACER CABLE

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>521.0</b>  |

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-

CONTACT: TERRI BLECK

PHONE: 847-816-5239

COMMONWEALTH EDISON

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 8        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 8        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 12090  
LINCOLNWOOD

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-TS12090.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

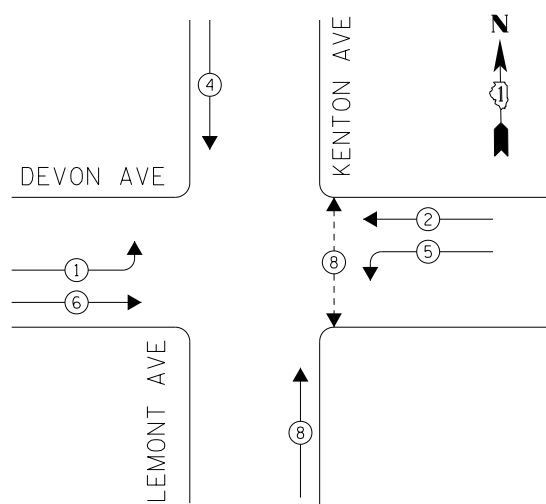
TOUHY AVE AND BARCLAY PL /HYATT DR - CABLE PLAN  
SCHEDULE OF QUANTITIES AND PHASE DESIG. DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

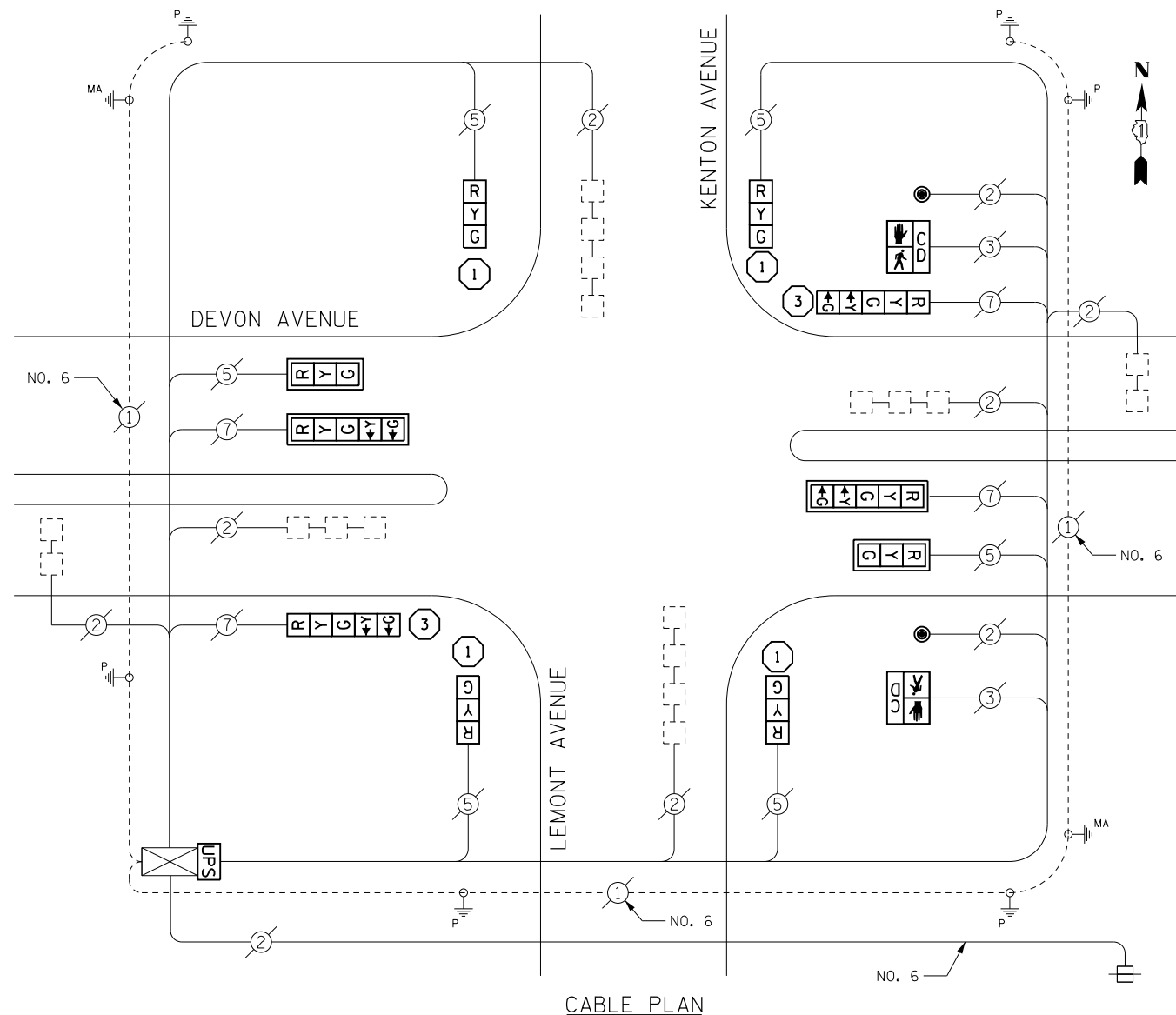
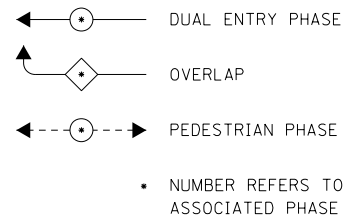
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 35        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



EXISTING CONTROLLER SEQUENCE



LEGEND



CABLE PLAN

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH TRAFFIC SIGNAL POST
- 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 4        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 4        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

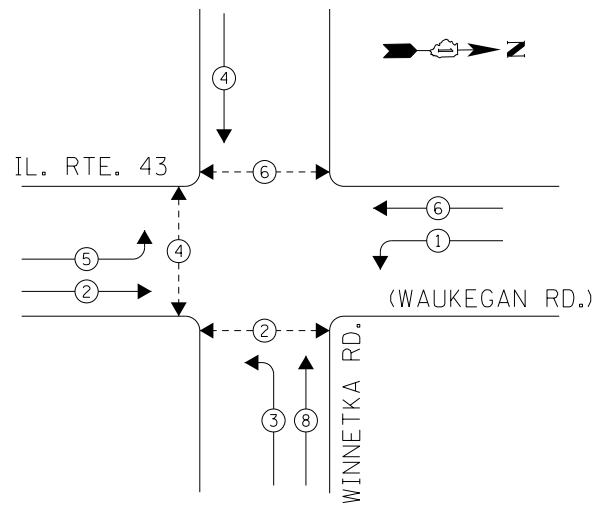
| I. D. O. T.<br>TRAFFIC SIGNAL INSTALLATION<br>ELECTRICAL SERVICE REQUIREMENTS |           |                 |     |            |               |
|---|-----------|-----------------|-----|------------|---------------|
| TYPE  | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
| SIGNAL (RED)  | 10        | -               | 17  | 0.50       | 85.0          |
| (YELLOW)  | 10        | -               | 25  | 0.25       | 62.5          |
| (GREEN)   | 10        | -               | 15  | 0.25       | 37.5          |
| ARROW   | 8         | -               | 12  | 0.10       | 9.6           |
| PED. SIGNAL   | 2         | -               | 25  | 1.00       | 50.0          |
| CONTROLLER  | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN   | -         | -               | 25  | 0.50       | -             |
| VIDEO SYSTEM  | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP  | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE   | -         | -               | -   | 0.50       | -             |
| FLASHER   | -         | -               | 25  | 0.50       | -             |
| <b>TOTAL =</b>  |           |                 |     |            | <b>369.6</b>  |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

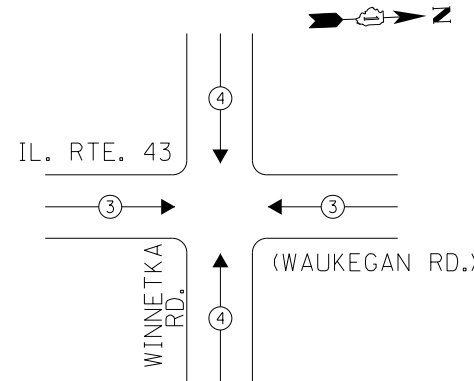
ENERGY SUPPLY- CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

TS 11185  
LINCOLNWOOD

EXISTING CONTROLLER SEQUENCE



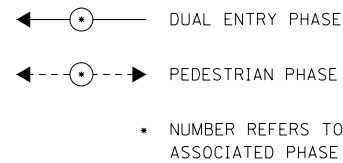
PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |    |    |
|------------------------------|----|----|
| EMERGENCY VEHICLE PREEMPTOR  | 3  | 4  |
| MOVEMENT                     | ←→ | ↑↓ |

LEGEND



REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH TRAFFIC SIGNAL POST
- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 5 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 5 EACH PEDESTRIAN PUSH-BUTTON

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

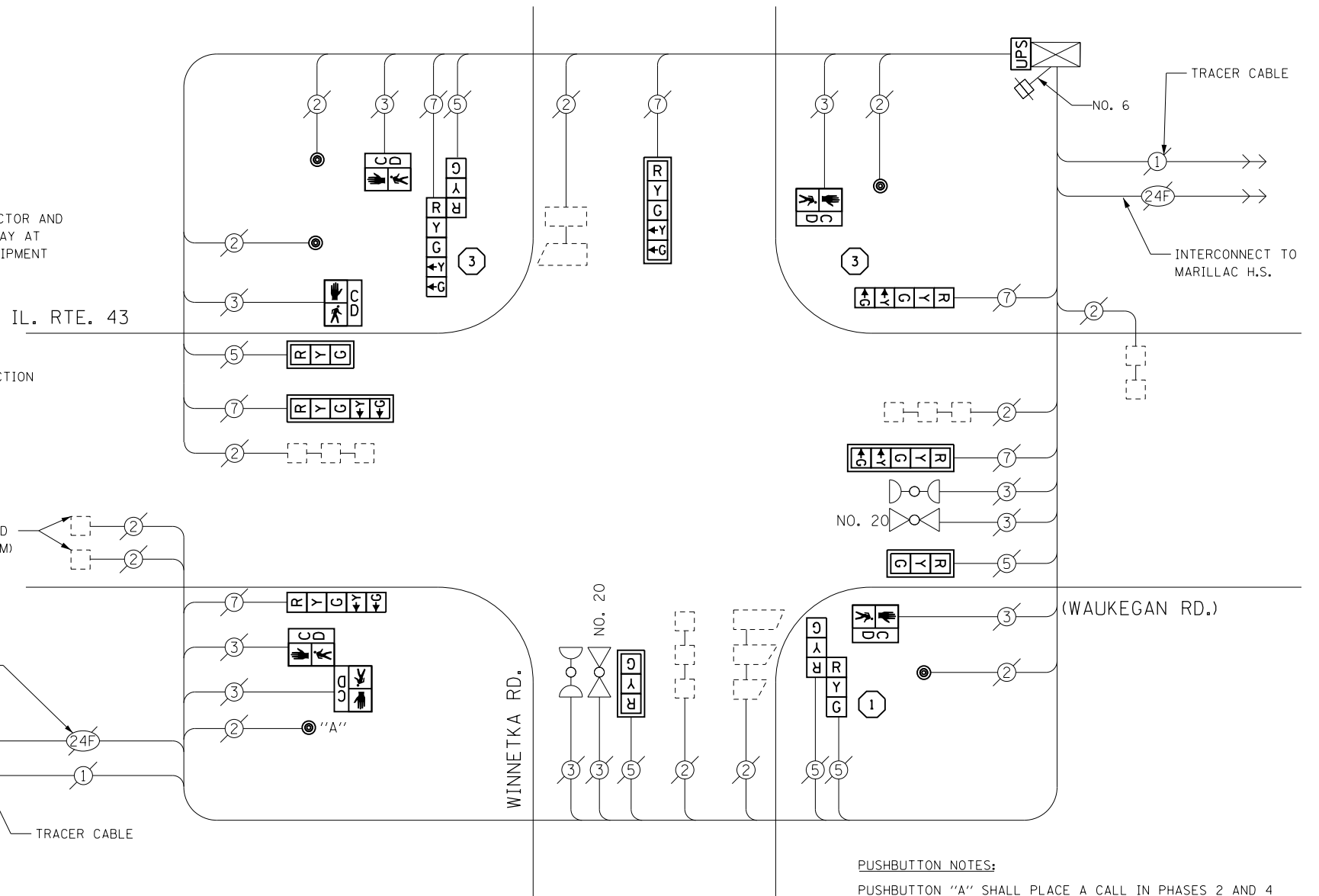
| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION   | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|--------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17  | 0.50         | 102.0         |
| (YELLOW)       | 12        | -               | 25  | 0.25         | 75.0          |
| (GREEN)        | 12        | -               | 15  | 0.25         | 45.0          |
| ARROW          | 12        | -               | 12  | 0.10         | 14.4          |
| PED. SIGNAL    | 6         | -               | 25  | 1.00         | 150.0         |
| CONTROLLER     | 1         | 100             | -   | 1.00         | 100.0         |
| ILLUM. SIGN    | -         | -               | 25  | 0.50         | -             |
| VIDEO SYSTEM   | -         | 150             | -   | 1.00         | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00         | 25.0          |
| LUMINAIRE      | -         | 250             | -   | 0.50         | -             |
| FLASHER        | -         | -               | 25  | 0.50         | -             |
| <b>TOTAL =</b> |           |                 |     | <b>511.4</b> |               |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 3        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 5        |



CABLE PLAN

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

PUSHBUTTON NOTES:  
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

TS 2435  
NORTHFIELD

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-TS2435.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

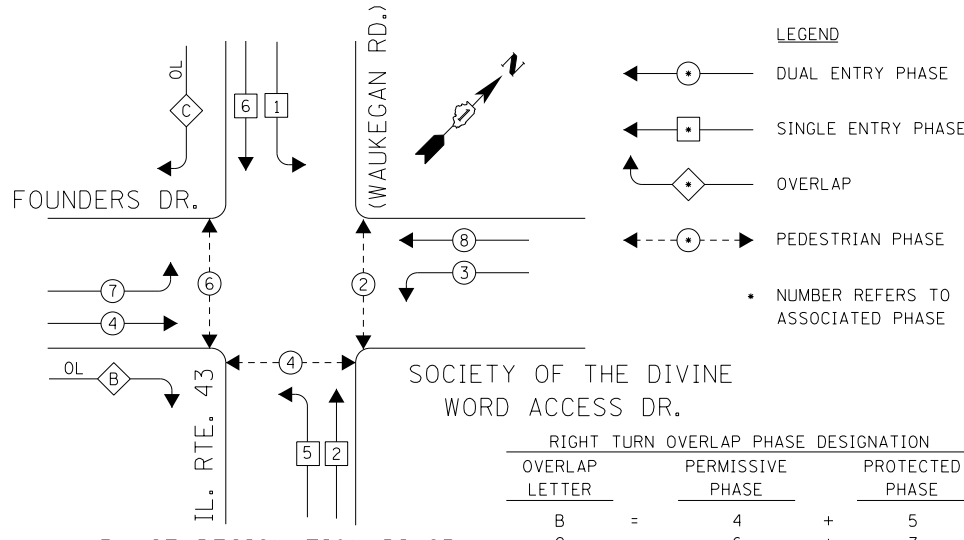
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL. RTE. 43 (WAUKEGAN RD.) AT WINNETKA RD. - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

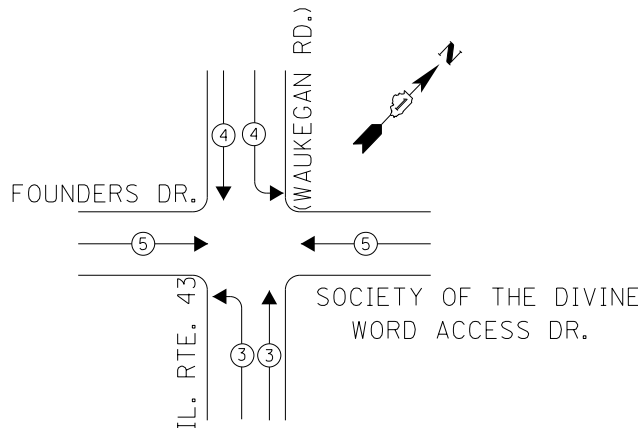
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 37        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |   |
|------------------------------|---|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 | 5 |
| MOVEMENT                     | ↔ | ↓ | ↔ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

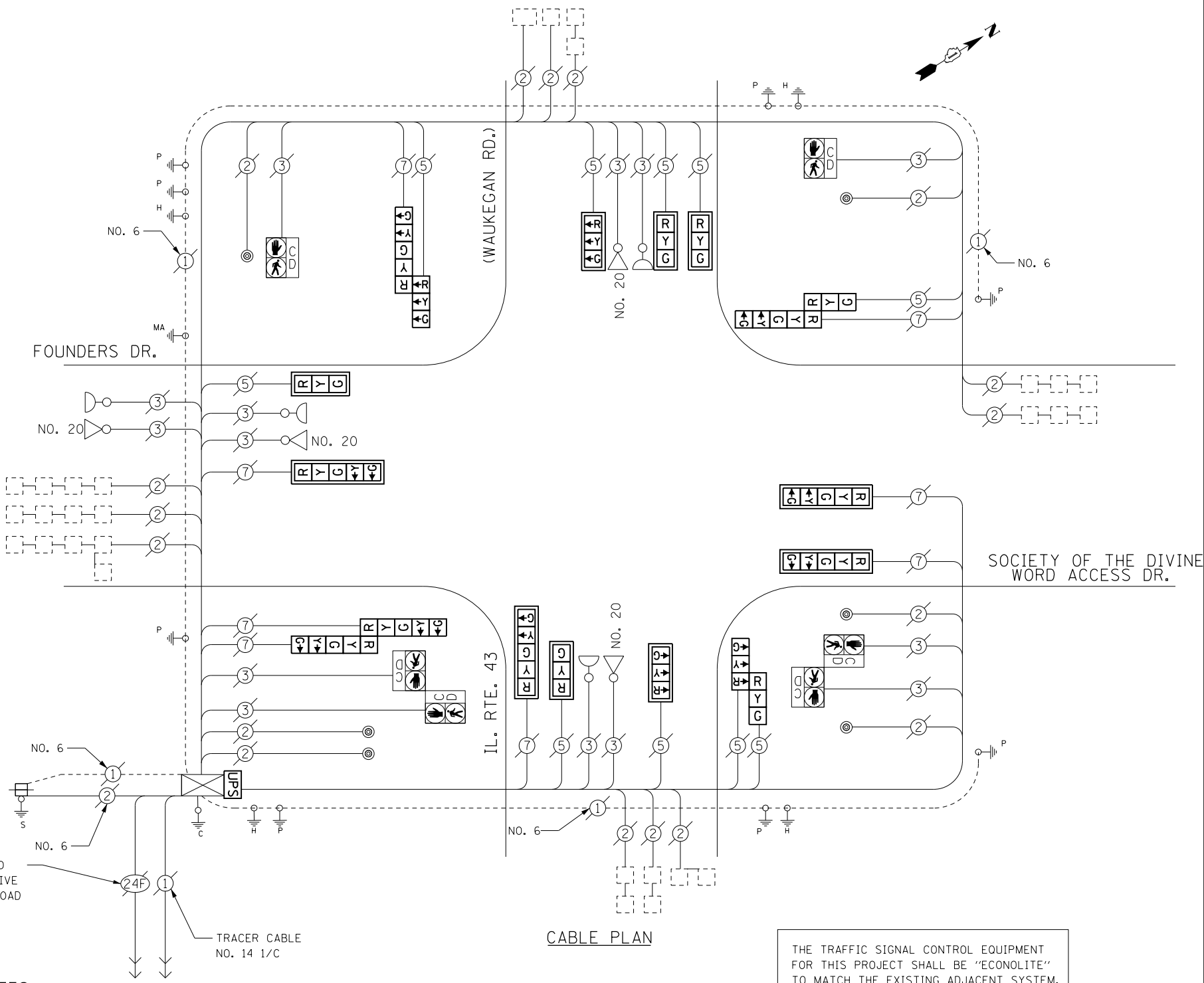
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 18        | -               | 17          | 0.50       | 153.0         |
| (YELLOW)       | 18        | -               | 25          | 0.25       | 112.5         |
| (GREEN)        | 18        | -               | 15          | 0.25       | 67.5          |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | 6         | -               | 25          | 1.00       | 150.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>627.2</b>  |

**ENERGY COSTS-** **BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** **CONTACT TERRI BLECK**  
 PHONE 847-816-5239  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 4        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT                 | EACH | 1        |



THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\160X82-sht-TS2406.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                              | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                      | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                      |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

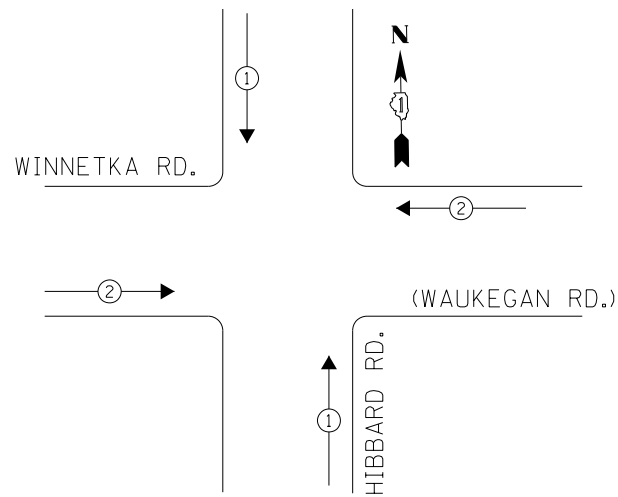
IL. RTE. 43 (WAUKEGAN ROAD) AT FOUNDERS DRIVE  
 SCHEDULE OF QUANTITIES, PHASE DES. DIAGRAM & EVP SEQUENCE

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 38        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 2406 NORTHFIELD

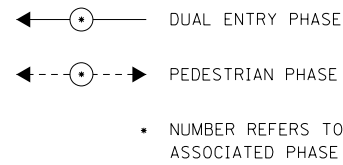


EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

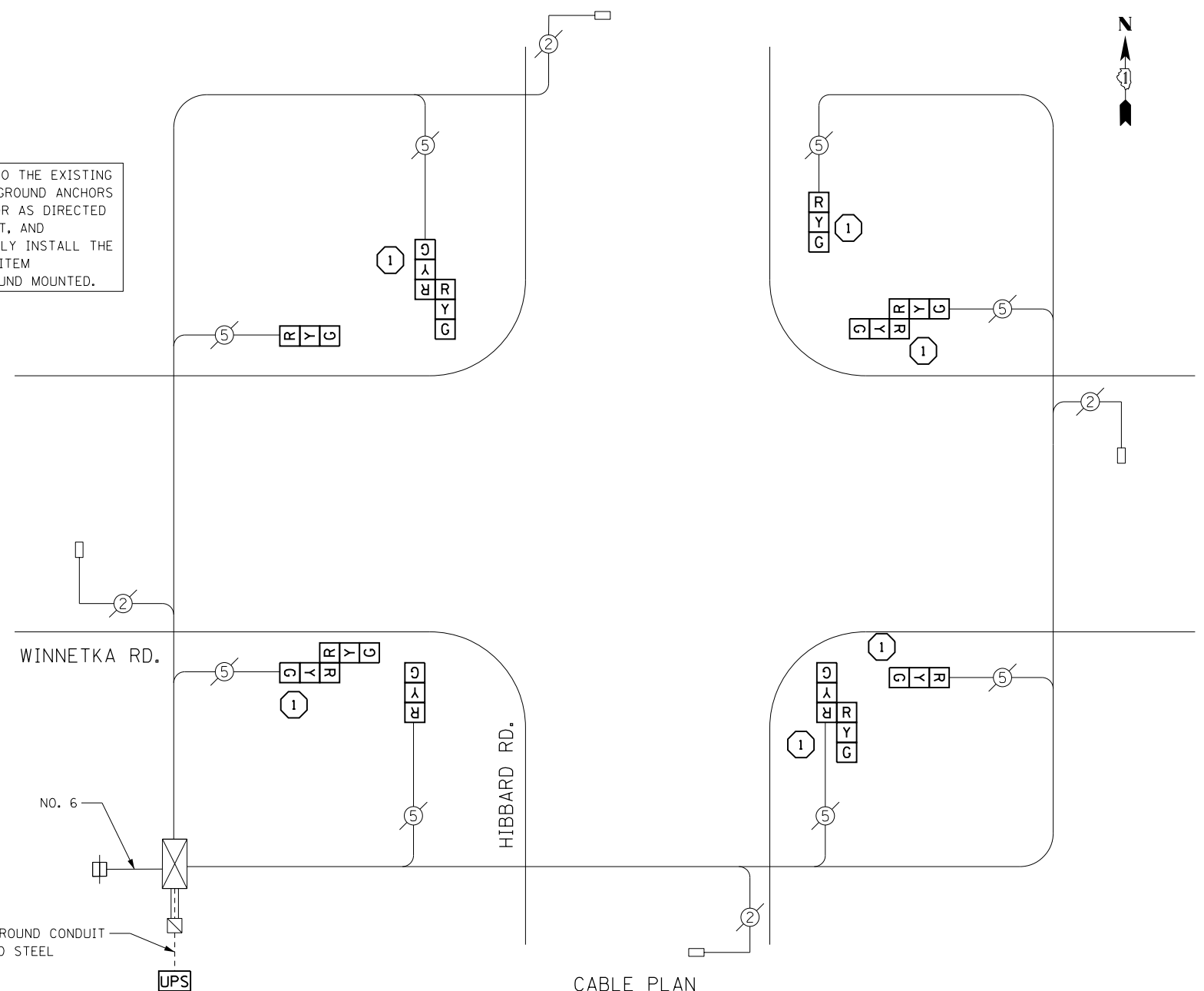


THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH TRAFFIC SIGNAL POST
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 3-SECTION



CABLE PLAN

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 347.0         |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT TERRI BLECK  
PHONE 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.         | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET                   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT             | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED         | EACH | 1        |

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 14485  
NORTHFIELD

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS14485.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                              | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                      | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                      |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

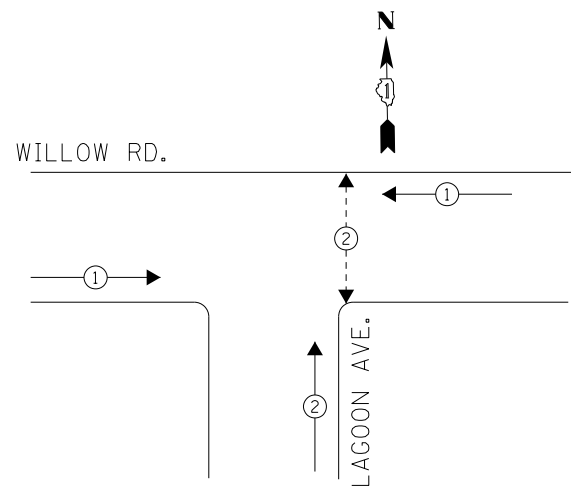
WINNETKA RD. AT HIBBARD RD. - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 39        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
PEDESTRIAN PHASE
NUMBER REFERS TO ASSOCIATED PHASE

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
2 EACH PEDESTRIAN PUSH-BUTTON

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

Table with columns: TYPE, NO. LAMPS, WATTAGE INCAND., WATTAGE LED, %OPERATION, TOTAL WATTAGE. Includes rows for SIGNAL (RED), SIGNAL (YELLOW), SIGNAL (GREEN), ARROW, PED. SIGNAL, CONTROLLER, ILLUM. SIGN, VIDEO SYSTEM, BATTERY BACKUP, LUMINAIRE, FLASHER.

TOTAL = 286.0

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

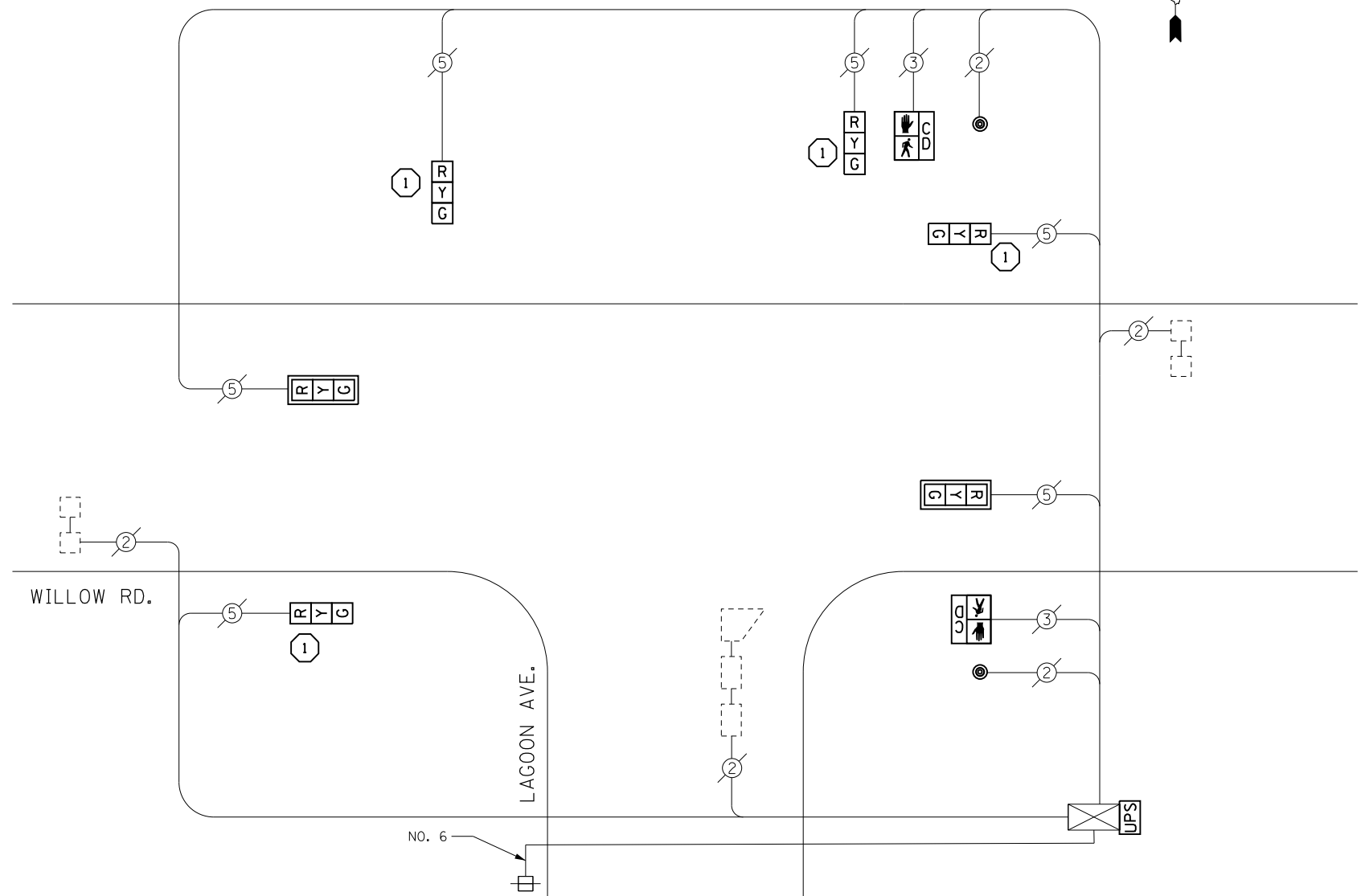
ENERGY SUPPLY- CONTACT TERRI BLECK
PHONE 847-816-5239
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

Table with columns: ITEMS, UNIT, QUANTITY. Lists items like MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION, TRAFFIC SIGNAL POST, SIGNAL HEAD, etc.

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.



CABLE PLAN

TS 14467
NORTHFIELD

Table with columns: FILE NAME, USER NAME, DESIGNED, DRAWN, PLOT SCALE, PLOT DATE, REVISIONS.

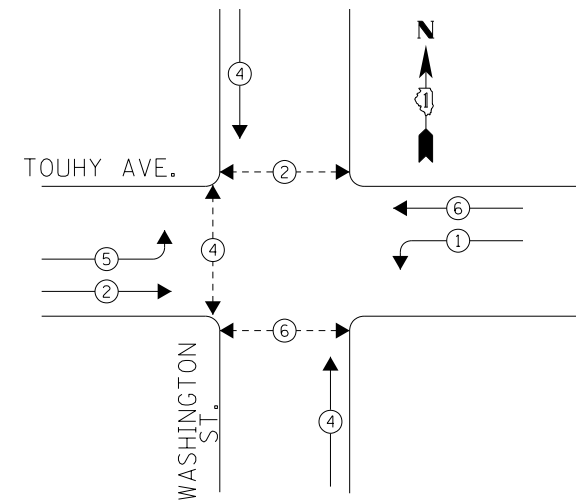
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

WILLOW RD. AT LAGOON AVE. - CABLE PLAN
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

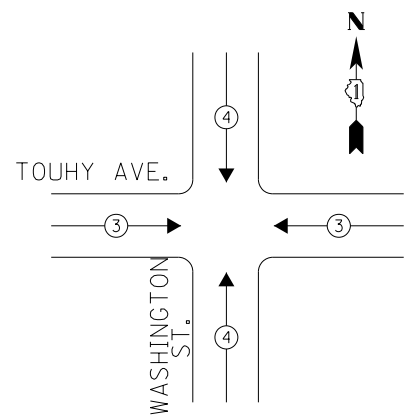
Table with columns: F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |    |    |
|------------------------------|----|----|
| EMERGENCY VEHICLE PREEMPTOR  | 3  | 4  |
| MOVEMENT                     | ←→ | ↑↓ |

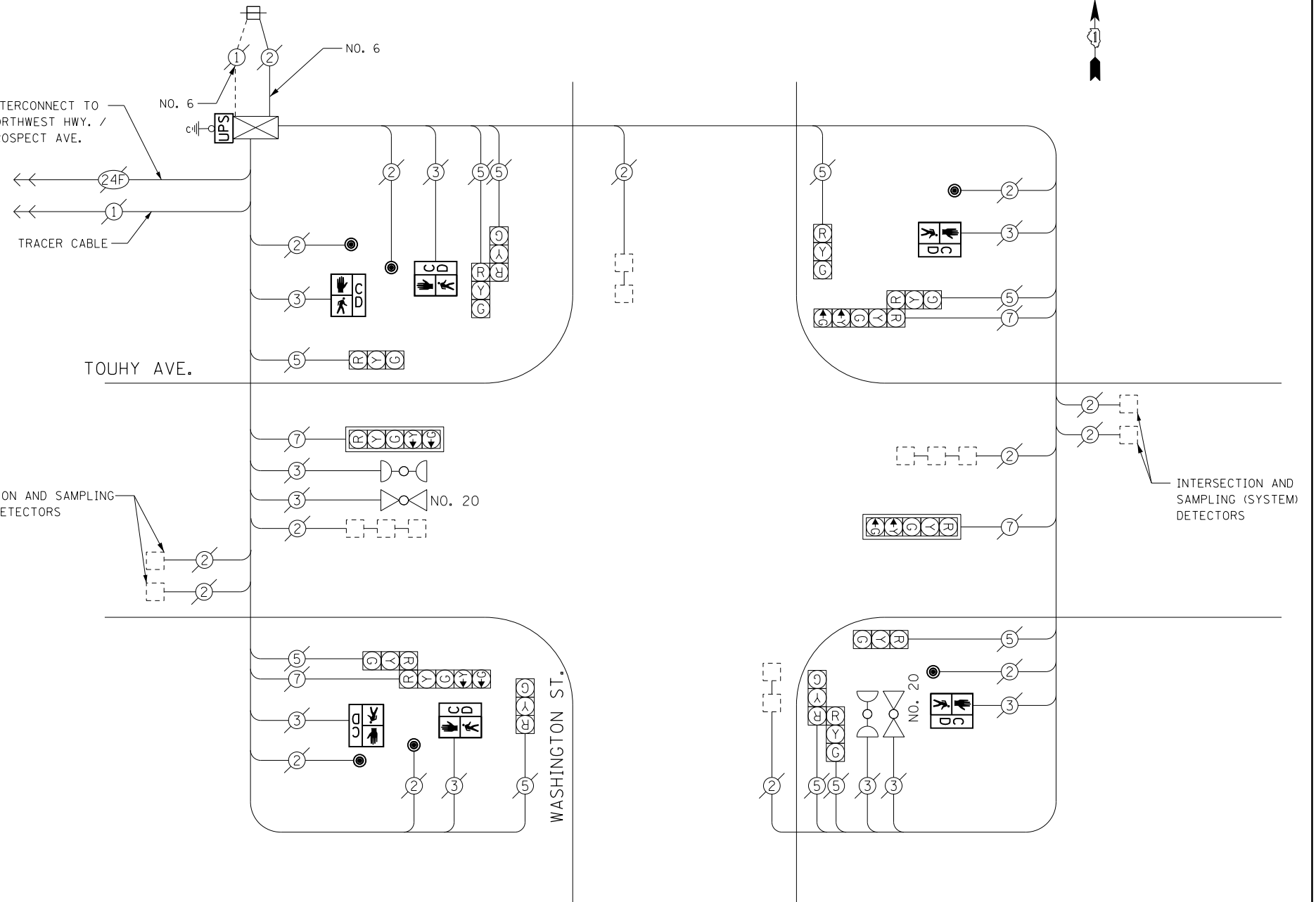
LEGEND

- ←●→ DUAL ENTRY PHASE
- ←□→ SINGLE ENTRY PHASE
- ←○→ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO NORTHWEST HWY. / PROSPECT AVE.



CABLE PLAN

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

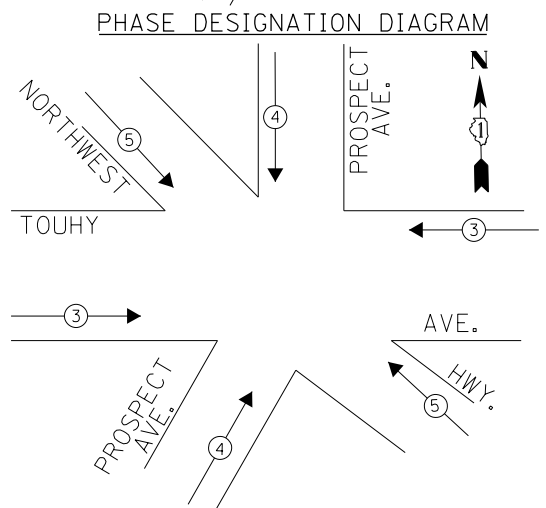
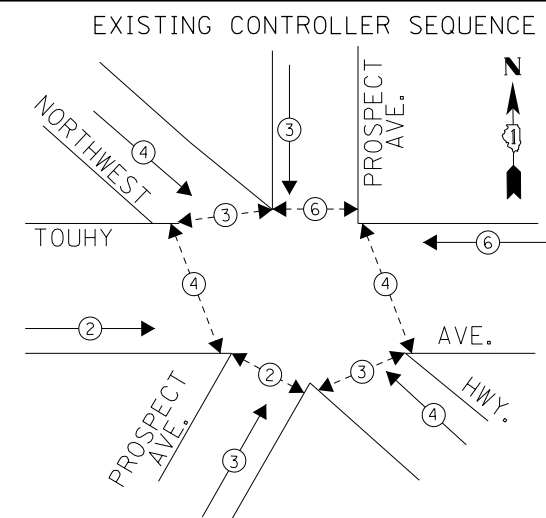
I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17          | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25          | 0.25       | 87.5          |
| (GREEN)        | 14        | -               | 15          | 0.25       | 52.5          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 6         | -               | 25          | 1.00       | 150.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>543.6</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, IL 60196-1096**

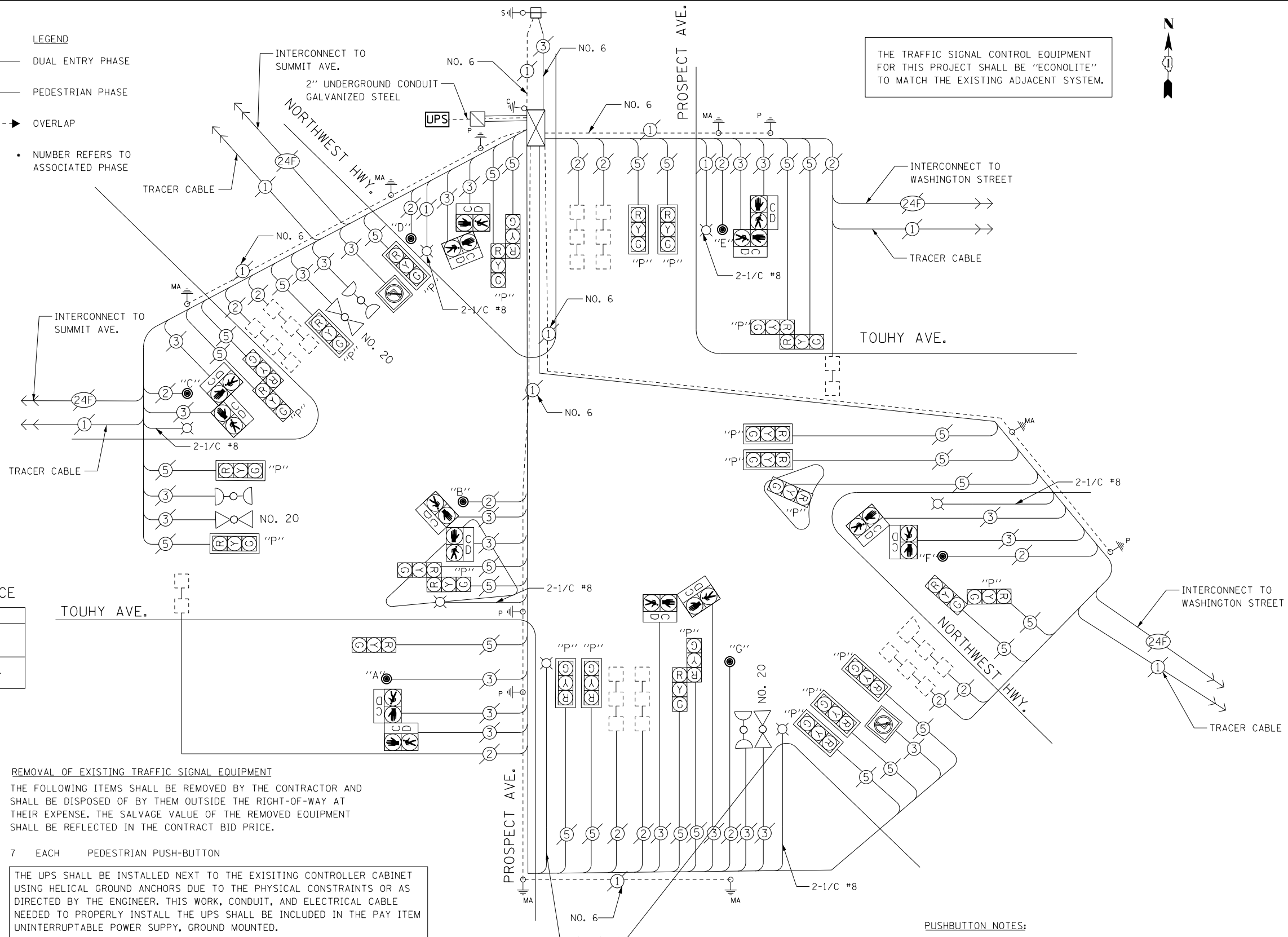
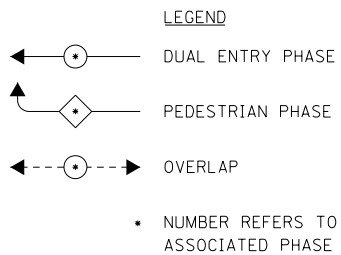
ENERGY SUPPLY- **CONTACT TERRI BLECK**  
**PHONE 847-816-5239**  
**COMMONWEALTH EDISON**

TS 9255  
PARK RIDGE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |     |
|------------------------------|-----|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   | 5   |
| MOVEMENT                     | ← → | ↓ ↑ | ↙ ↘ |



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 27        | -               | 17          | 0.50       | 229.5         |
| (YELLOW)       | 27        | -               | 25          | 0.25       | 168.75        |
| (GREEN)        | 27        | -               | 15          | 0.25       | 101.25        |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 14        | -               | 25          | 1.00       | 350.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | 2         | -               | 25          | 0.50       | 25.0          |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | 7         | 400             | -           | 0.50       | 1400.0        |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>2399.5</b> |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

7 EACH PEDESTRIAN PUSH-BUTTON

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED.

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED        | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                | EACH | 7        |

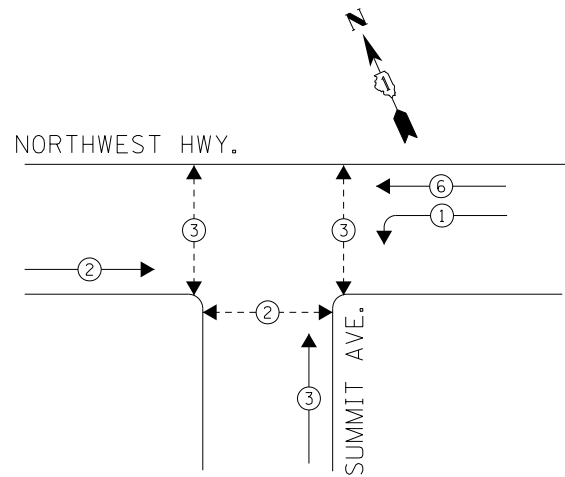
CABLE PLAN

PUSHBUTTON NOTES:  
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASE 4  
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 3 AND 4  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 3 AND 6  
 PUSHBUTTON "E" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSHBUTTON "F" SHALL PLACE A CALL IN PHASES 3 AND 4  
 PUSHBUTTON "G" SHALL PLACE A CALL IN PHASES 2 AND 3

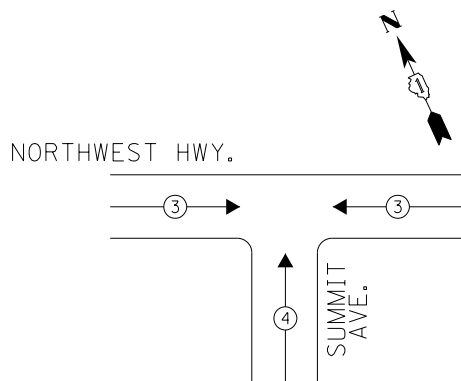
TS 9250  
 PARK RIDGE



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

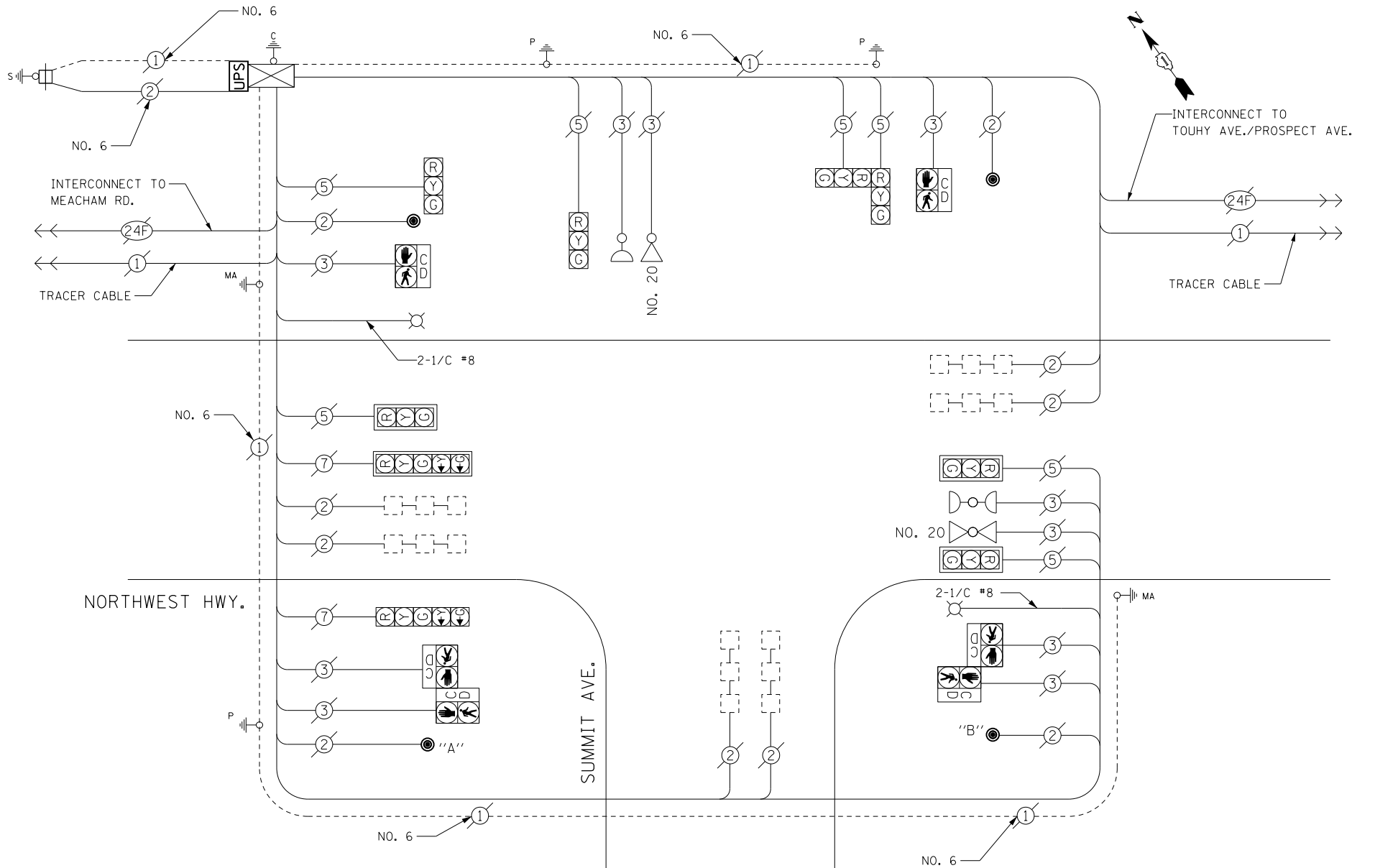


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 |
| MOVEMENT                     | ← | ↑ |

LEGEND

- ⊙ → DUAL ENTRY PHASE
- ⊙ → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PUSHBUTTON NOTES:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 3  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 2 AND 3

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH PEDESTRIAN PUSH-BUTTON

I. D. O. T.  
 TRAFFIC SIGNAL INSTALLATION  
 ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 9         | -               | 17          | 0.50       | 76.5          |
| (YELLOW)       | 9         | -               | 25          | 0.25       | 56.25         |
| (GREEN)        | 9         | -               | 15          | 0.25       | 33.75         |
| ARROW          | 4         | -               | 12          | 0.10       | 4.8           |
| PED. SIGNAL    | 6         | -               | 25          | 1.00       | 150.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | 2         | 400             | -           | 0.50       | 400.0         |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 846.3         |

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL               | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                | EACH | 4        |

ENERGY COSTS-  
 BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
 CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS9247.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

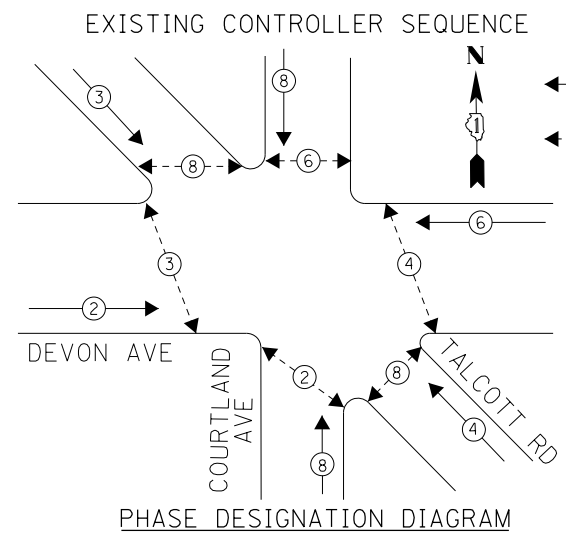
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

NORTHWEST HWY. AT SUMMIT AVE. - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

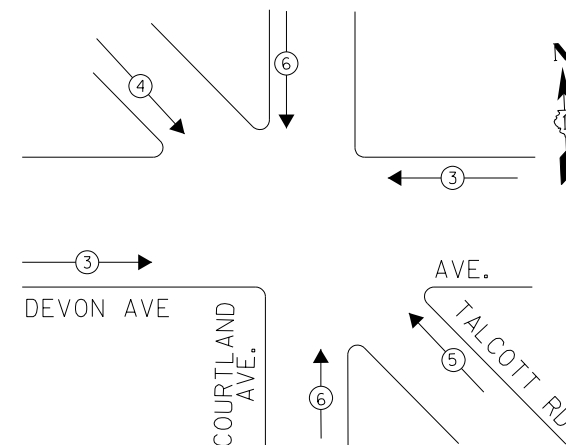
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTÉ.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 43        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 9247  
 PARK RIDGE

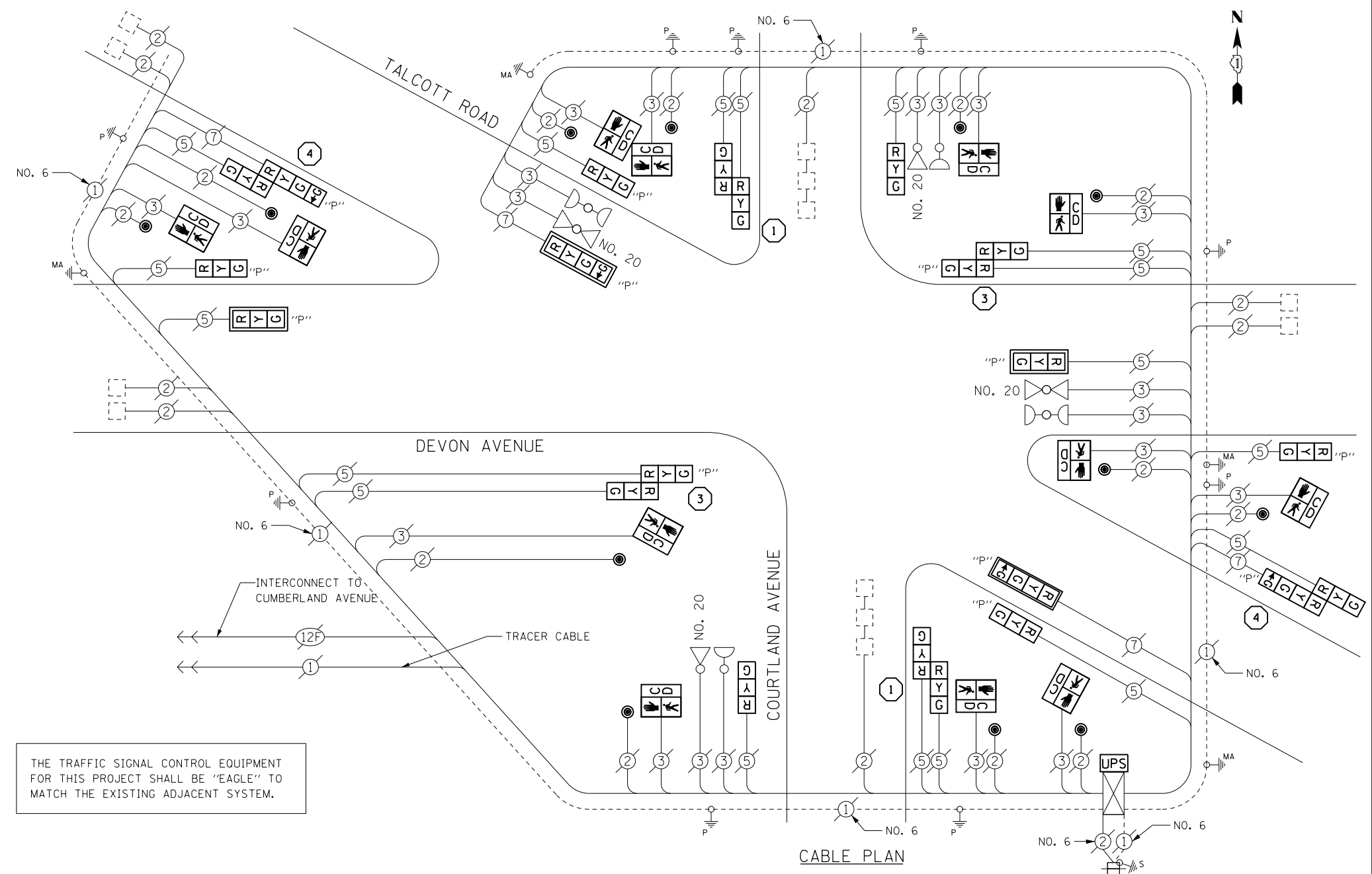


**LEGEND**  
 ← ⊙ → DUAL ENTRY PHASE  
 ← ⊙ → PEDESTRIAN PHASE  
 • NUMBER REFERS TO ASSOCIATED PHASE



**EMERGENCY VEHICLE PREEMPTORS**

| EMERGENCY VEHICLE PREEMPTOR | 3 | 4 | 5 | 6 |
|-----------------------------|---|---|---|---|
| MOVEMENT                    | ← | ↘ | ↙ | ↕ |



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**SCHEDULE OF QUANTITIES**

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.   | EACH | 2        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.   | EACH | 2        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.   | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                            | EACH | 4        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED                           | EACH | 2        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 2        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 10       |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 4        |
| PEDESTRIAN PUSH-BUTTON   | EACH | 12       |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL  | EACH | 1        |

**CONSTRUCTION NOTES**

- ① THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- ③ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- ④ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 18 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

|    |      |   |
|----|------|---|
| 6  | EACH | TRAFFIC SIGNAL POST                           |
| 8  | EACH | SIGNAL HEAD, 1-FACE, 3 SECTION                |
| 2  | EACH | SIGNAL HEAD, 1-FACE, 4 SECTION                |
| 4  | EACH | SIGNAL HEAD, 2-FACE, 3 SECTION                |
| 2  | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-4 SECTION |
| 10 | EACH | PEDESTRIAN SIGNAL HEAD, 1-FACE                |
| 1  | EACH | PEDESTRIAN SIGNAL HEAD, 2-FACE                |
| 12 | EACH | PEDESTRIAN PUSH-BUTTON                        |

**I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 22        | -               | 17  | 0.50       | 187.0         |
| (YELLOW)       | 22        | -               | 25  | 0.25       | 137.5         |
| (GREEN)        | 26        | -               | 15  | 0.25       | 97.5          |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | 12        | -               | 25  | 1.00       | 300.0         |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25  | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -   | 0.50       | -             |
| FLASHER        | -         | -               | 25  | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>847.0</b>  |

**ENERGY COSTS- BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY- CONTACT: TERRI BLECK**  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-TS9245.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

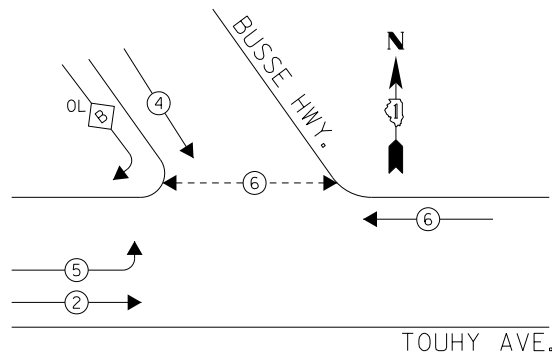
**DEVON AVE AT TALCOTT RD /COURTLAND AVE - CABLE PLAN**  
**SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**  
 SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 44        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 9245  
 PARK RIDGE



EXISTING CONTROLLER SEQUENCE

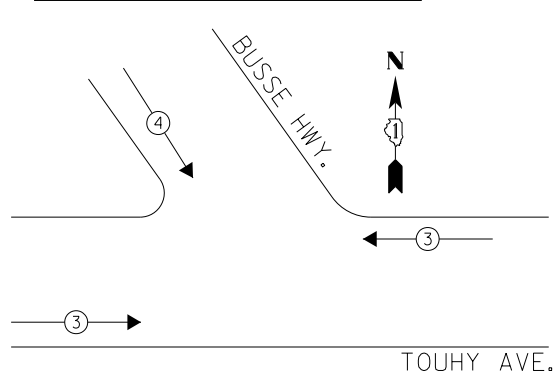


- LEGEND**
- ← ● → DUAL ENTRY PHASE
  - ← ◊ → OVERLAP
  - ← - - ● - - → PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

**RIGHT TURN OVERLAP PHASE DESIGNATION**

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| B              | = 4              | + 5             |

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |   |
|------------------------------|-----|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4 |
| MOVEMENT                     | ← → | ↘ |

**I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION   | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|--------------|---------------|
| SIGNAL (RED)   | 11        | -               | 17          | 0.50         | 93.5          |
| (YELLOW)       | 11        | -               | 25          | 0.25         | 68.75         |
| (GREEN)        | 11        | -               | 15          | 0.25         | 41.25         |
| ARROW          | 8         | -               | 12          | 0.10         | 9.6           |
| PED. SIGNAL    | 2         | -               | 25          | 1.00         | 50.0          |
| CONTROLLER     | 1         | 100             | -           | 1.00         | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50         | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00         | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00         | 25.0          |
| LUMINAIRE      | 2         | 400             | -           | 0.50         | 400.0         |
| FLASHER        | -         | -               | 25          | 0.50         | -             |
| <b>TOTAL =</b> |           |                 |             | <b>788.1</b> |               |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED.

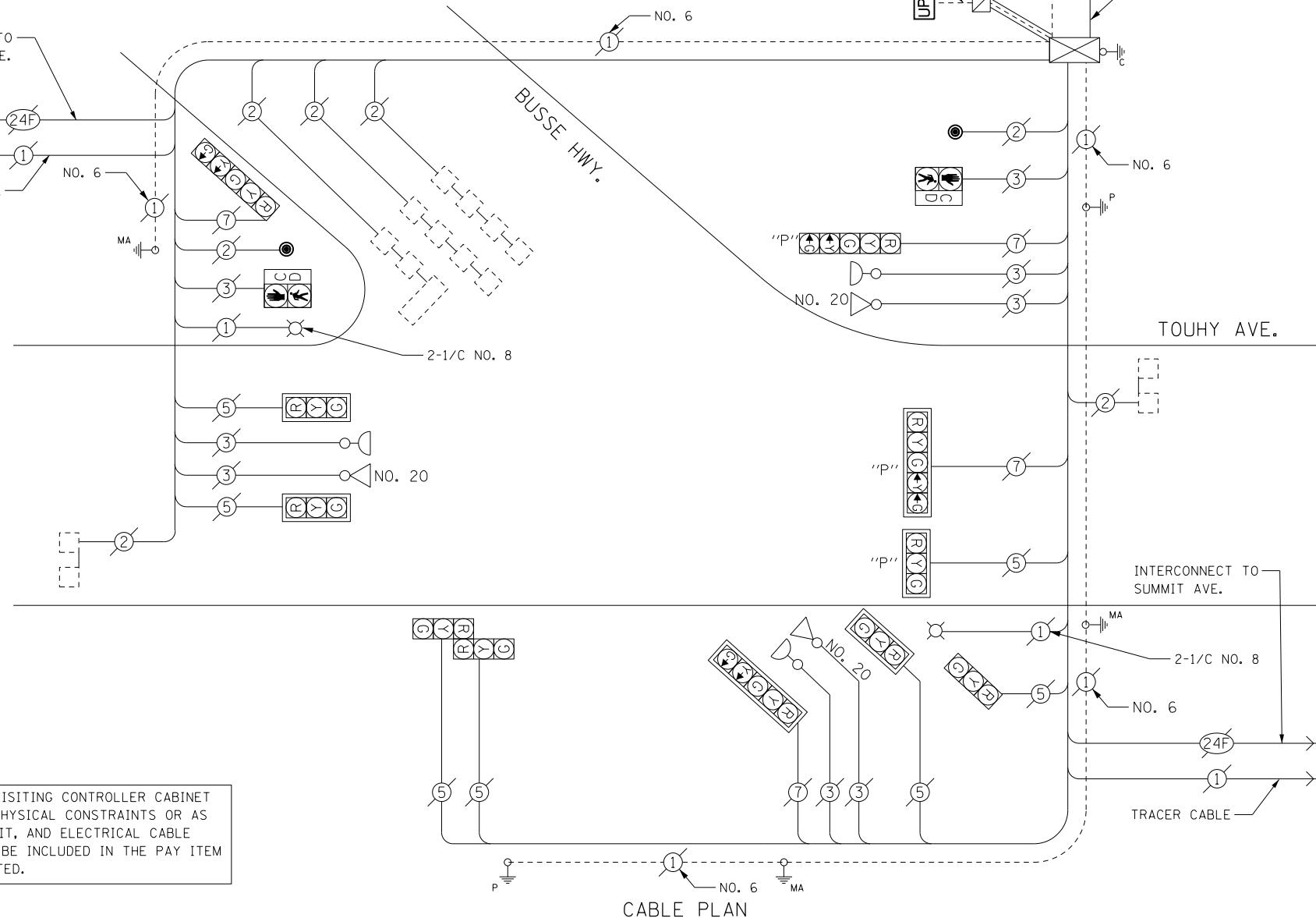
SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON                              | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED        | EACH | 1        |

2" UNDERGROUND CONDUIT GALVANIZED STEEL

INTERCONNECT TO CUMBERLAND AVE.

TRACER CABLE



CABLE PLAN

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2 EACH PEDESTRIAN PUSH-BUTTON

TS 9240  
PARK RIDGE

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160X82-sht-TS9240.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

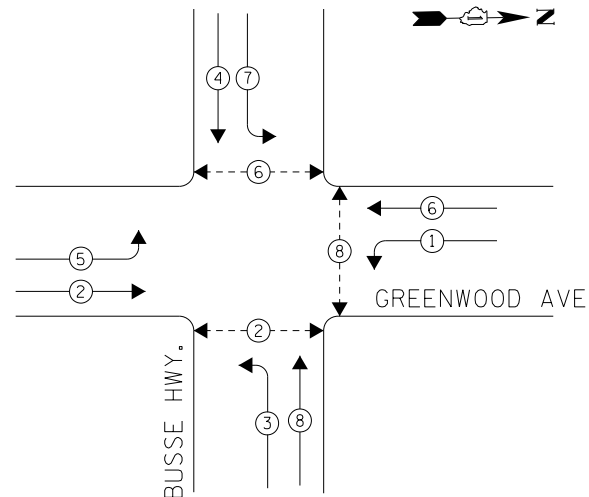
**TOUHY AVE. AT BUSSE HWY. - CABLE PLAN**

SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 45        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE

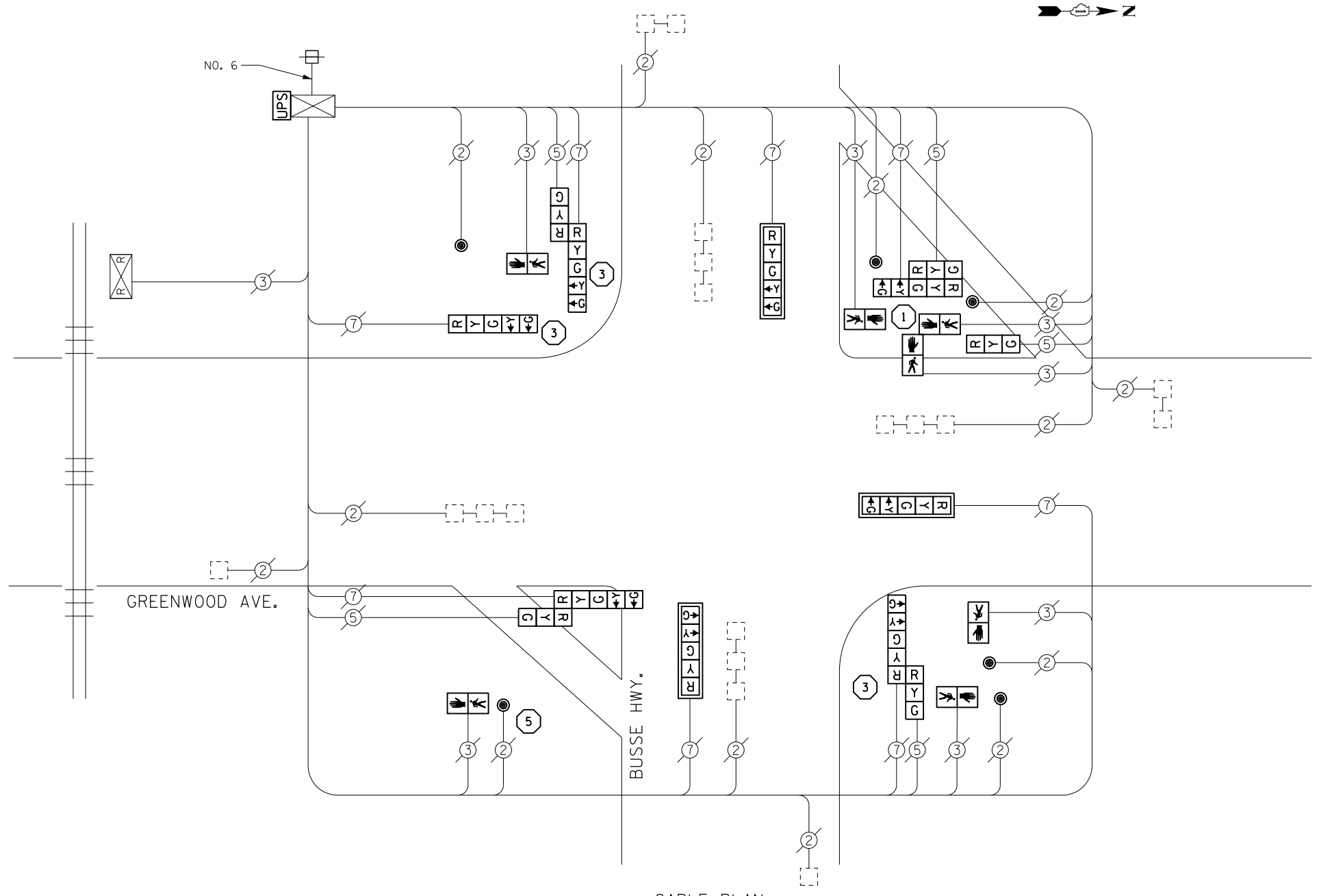


PHASE DESIGNATION DIAGRAM

- LEGEND**
- ← ○ → DUAL ENTRY PHASE
  - ← ○ → PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 5 EACH TRAFFIC SIGNAL POST
- 1 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 5 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON



CABLE PLAN

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                 | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.                        | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                        | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                        | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED               | EACH | 3        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED                | EACH | 5        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED                | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                        | EACH | 3        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET                                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                               | EACH | 1        |

CONSTRUCTION NOTES

- ① THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- ③ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- ⑤ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 10 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

**I. D. O. T.**  
**TRAFFIC SIGNAL INSTALLATION**  
**ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 13        | -               | 17  | 0.50       | 110.5         |
| (YELLOW)       | 13        | -               | 25  | 0.25       | 81.25         |
| (GREEN)        | 13        | -               | 15  | 0.25       | 48.75         |
| ARROW          | 16        | -               | 12  | 0.10       | 19.2          |
| PED. SIGNAL    | 7         | -               | 25  | 1.00       | 175.0         |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25  | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -   | 0.50       | -             |
| FLASHER        | -         | -               | 25  | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>559.7</b>  |

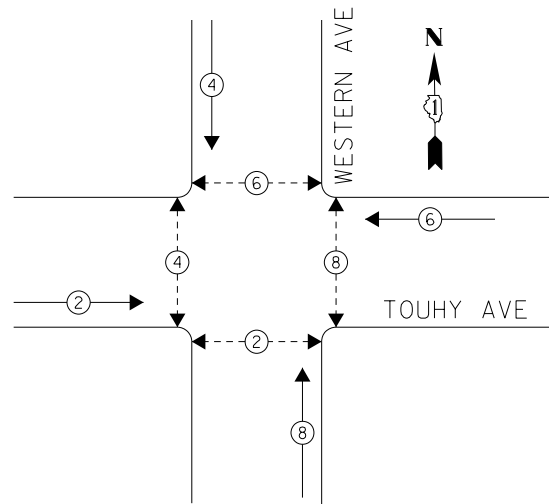
**ENERGY COSTS- BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY- CONTACT: TERRI BLECK**  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

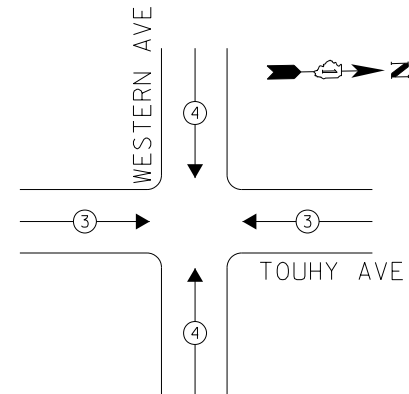
TS 9235  
 PARK RIDGE



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

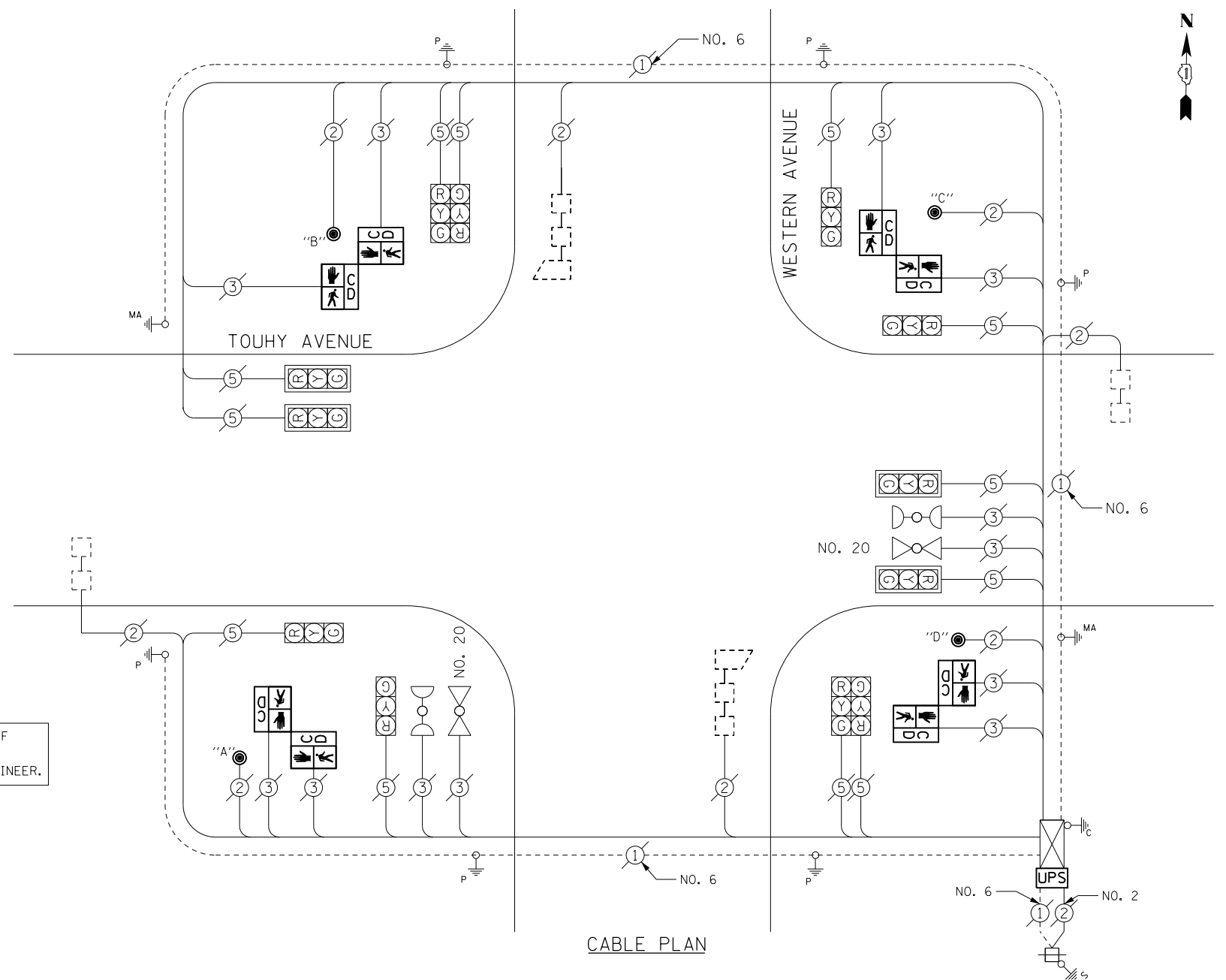


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

- LEGEND**
- ← ● → DUAL ENTRY PHASE
  - ← ● - - - ● → PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.



CABLE PLAN

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>547.0</b>  |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 4        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

TS 9230  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS9230.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

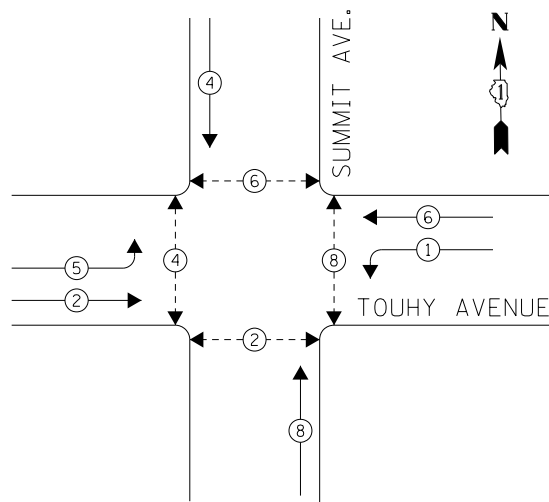
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOUHY AVENUE AT WESTERN AVENUE - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

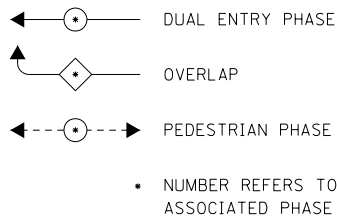
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTÉ.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 47        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

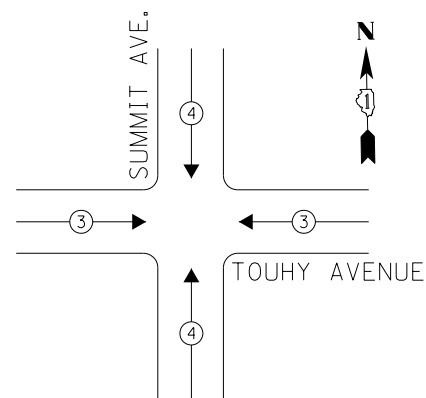
EXISTING CONTROLLER SEQUENCE



LEGEND



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | 2         | 250             | -           | 0.50       | 250.0         |
| LUMINAIRE      | 2         | 400             | -           | 0.50       | 400.0         |
| <b>TOTAL =</b> |           |                 |             |            | <b>1206.6</b> |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT TERRI BLECK  
PHONE 847-816-5239  
COMMONWEALTH EDISON

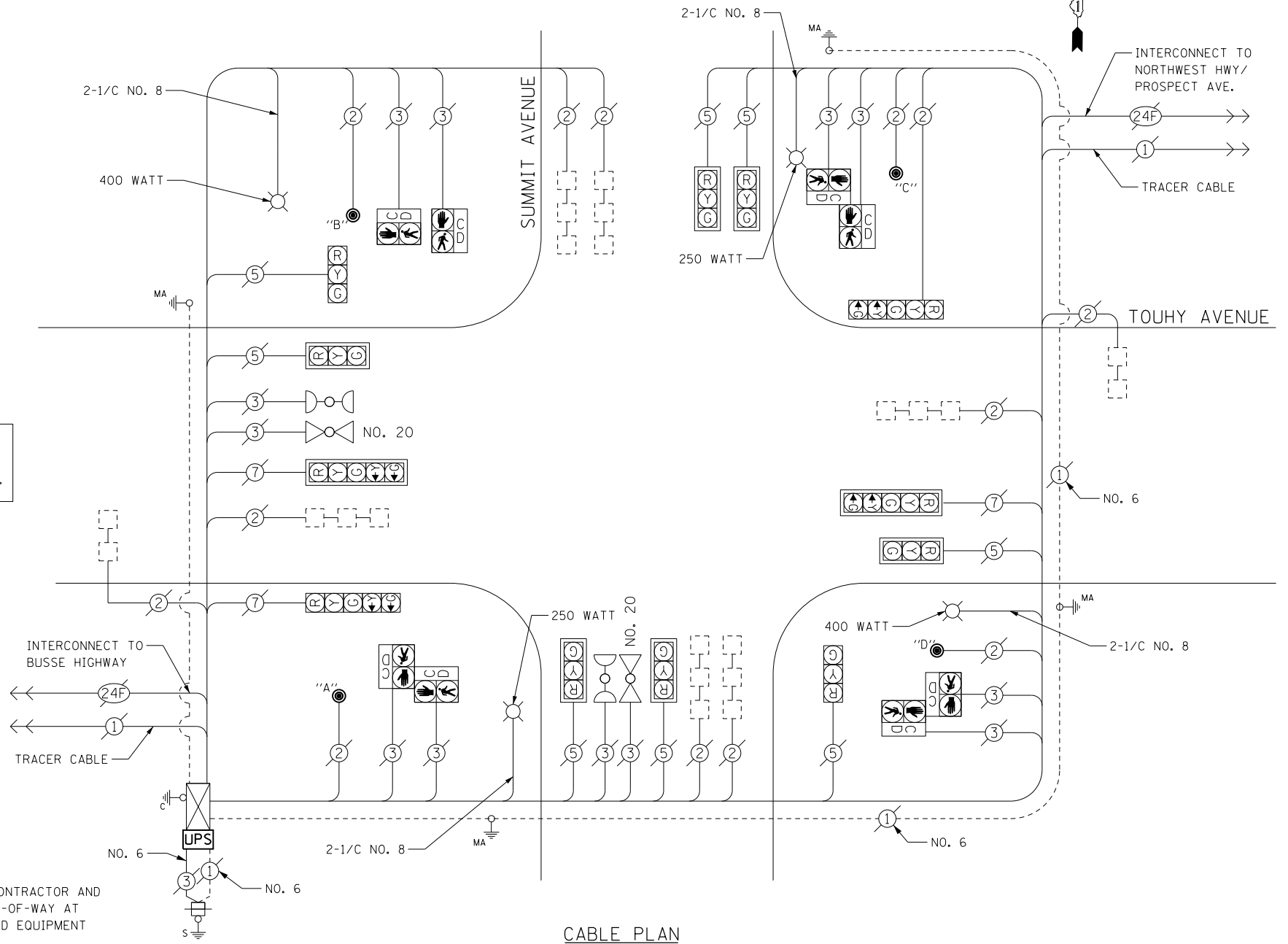
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT  
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL               | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                | EACH | 4        |



CABLE PLAN

PUSHBUTTON NOTES:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

TS 9222  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS9222.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOUHY AVENUE AT SUMMIT AVENUE - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 48        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |





**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

INTERCONNECT TO TOUHY AVENUE

TRACER CABLE  
NO. 6

NO. 20

NO. 6

NO. 6

NO. 6

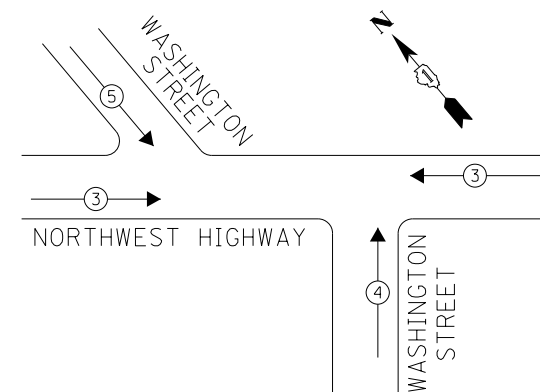
NO. 20

NO. 6

NORTHWEST HIGHWAY

CABLE PLAN

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |    |   |   |
|------------------------------|----|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3  | 4 | 5 |
| MOVEMENT                     | ←→ | ↑ | ↓ |

**I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 18        | -               | 17          | 0.50       | 153.0         |
| (YELLOW)       | 18        | -               | 25          | 0.25       | 112.5         |
| (GREEN)        | 18        | -               | 15          | 0.25       | 67.5          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 6         | -               | 25          | 1.00       | 150.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>608.0</b>  |

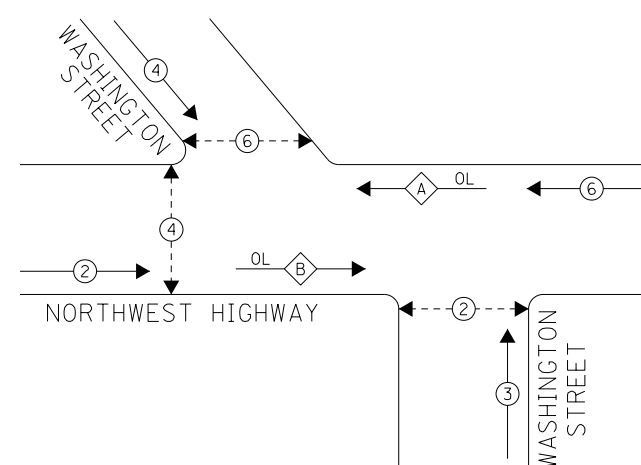
**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- ←●→ DUAL ENTRY PHASE
- ←◇→ OVERLAP
- ←●→ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

| OVERLAP LETTER | RIGHT TURN OVERLAP PHASE DESIGNATION |                 |
|----------------|--------------------------------------|-----------------|
|                | PHASE PERMISSIVE                     | PHASE PROTECTED |
| A              | = 3 + 6                              |                 |
| B              | = 4 + 2                              |                 |

TS 9220  
PARK RIDGE

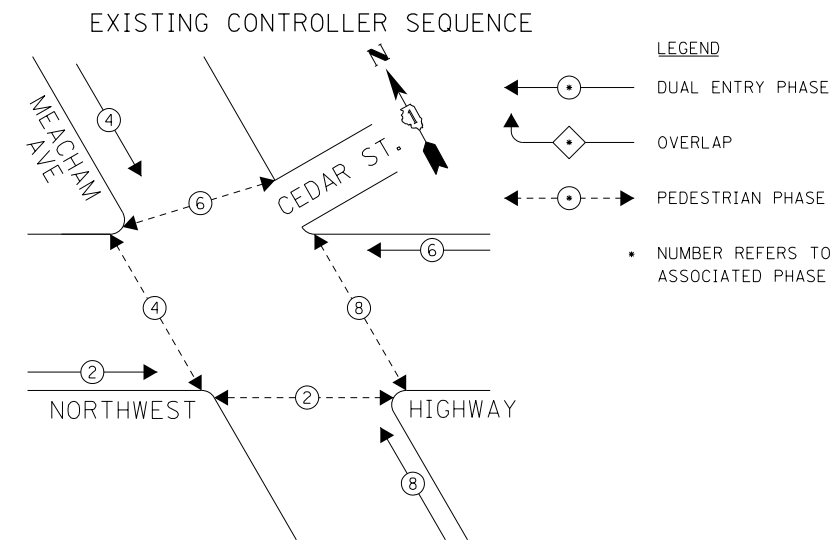
|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160X82-sht-TS9220.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

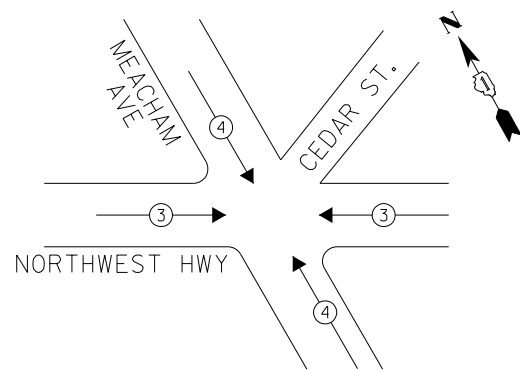
**NORTHWEST HIGHWAY AT WASHINGTON STREET - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 49        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↙ ↘ |

**I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | 4         | 250             | -           | 0.50       | 500.0         |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>1047.0</b> |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

2" UNDERGROUND CONDUIT GALVANIZED STEEL

NO. 6  
NO. 6  
NO. 20  
NO. 20  
NO. 8

TRACER CABLE  
INTERCONNECT TO ELM STREET

CABLE PLAN

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, CONDUIT, AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED.

**PUSHBUTTON NOTES:**

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
PUSHBUTTON "E" SHALL PLACE A CALL IN PHASES 2 AND 8

**SCHEDULE OF QUANTITIES**

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED        | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                | EACH | 5        |

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

5 EACH PEDESTRIAN PUSH-BUTTON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS9215.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

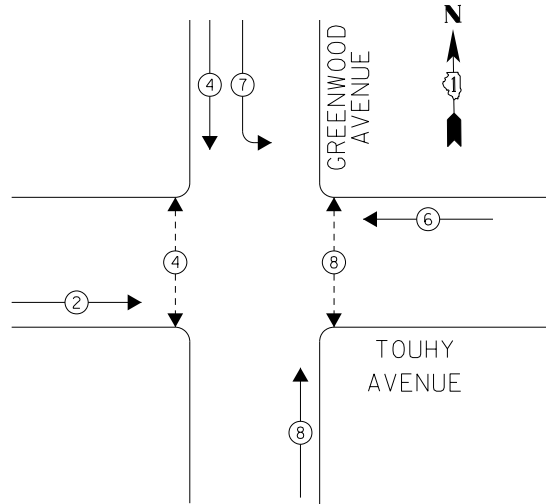
**NORTHWEST HIGHWAY AT MEACHAM AVENUE - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**

SCALE: SHEET OF SHEETS STA. TO STA.

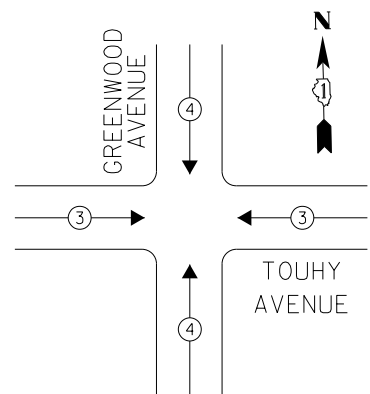
|                    |            |        |                           |           |
|--------------------|------------|--------|---------------------------|-----------|
| F.A. RTE.          | SECTION    | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                    | 2014-007TS | COOK   | 88                        | 50        |
| CONTRACT NO. 60X82 |            |        | ILLINOIS FED. AID PROJECT |           |

TS 9215  
PARK RIDGE

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

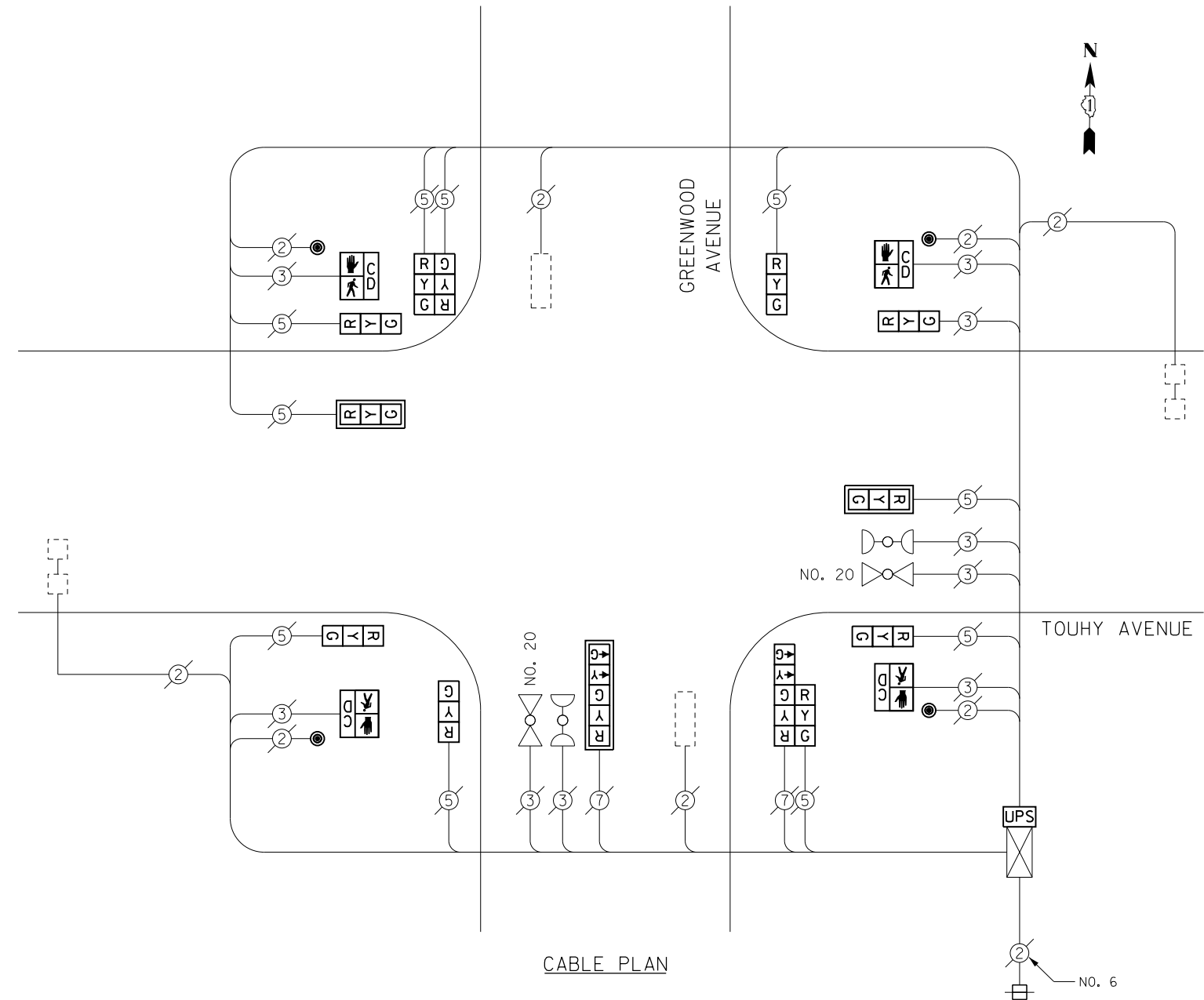


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

LEGEND

- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 13        | -               | 17          | 0.50       | 110.5         |
| (YELLOW)       | 13        | -               | 25          | 0.25       | 81.25         |
| (GREEN)        | 13        | -               | 15          | 0.25       | 48.75         |
| ARROW          | 4         | -               | 12          | 0.10       | 4.8           |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>470.3</b>  |

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 3        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

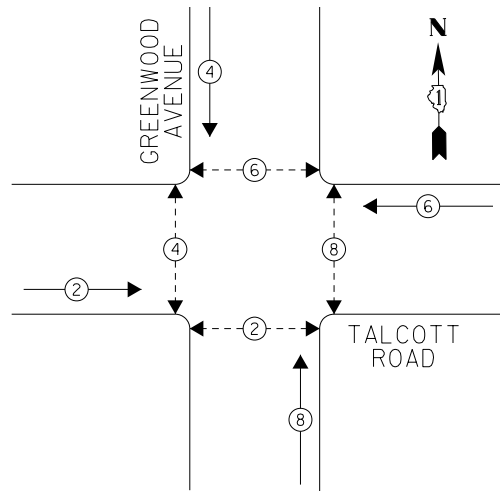
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

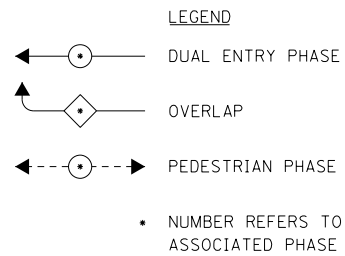
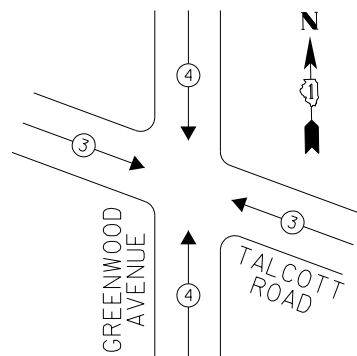
ENERGY SUPPLY-  
CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

TS 9210  
PARK RIDGE

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 |
| MOVEMENT                     |   |   |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 8         | -               | 17          | 0.50       | 68.0          |
| (YELLOW)       | 8         | -               | 25          | 0.25       | 50.0          |
| (GREEN)        | 8         | -               | 15          | 0.25       | 30.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>473.0</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT TERRI BLECK**  
PHONE **847-816-5239**  
COMMONWEALTH EDISON

PUSHBUTTON NOTES:

PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 6        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

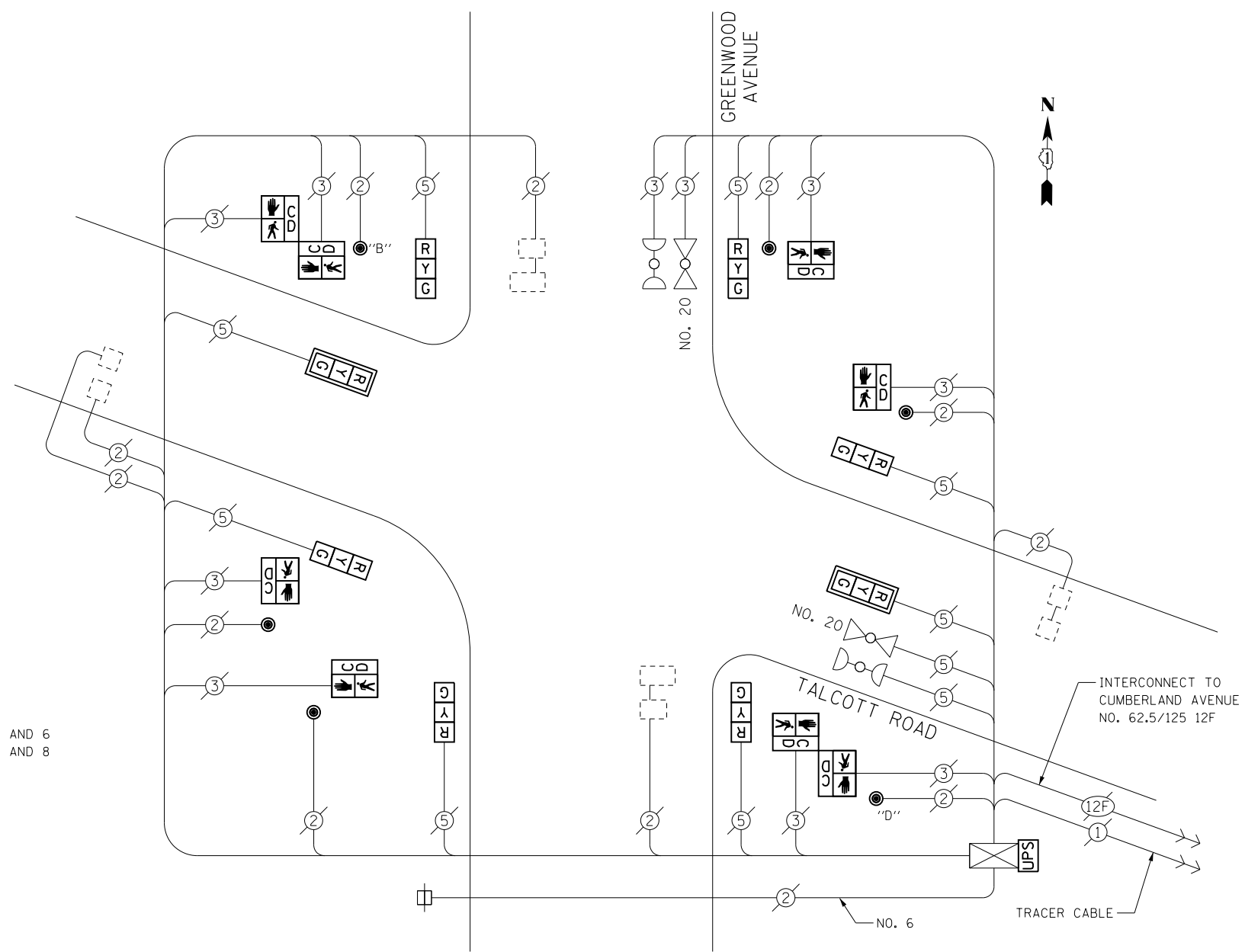
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GREENWOOD AVENUE AT TALCOTT ROAD - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 52        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



CABLE PLAN

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

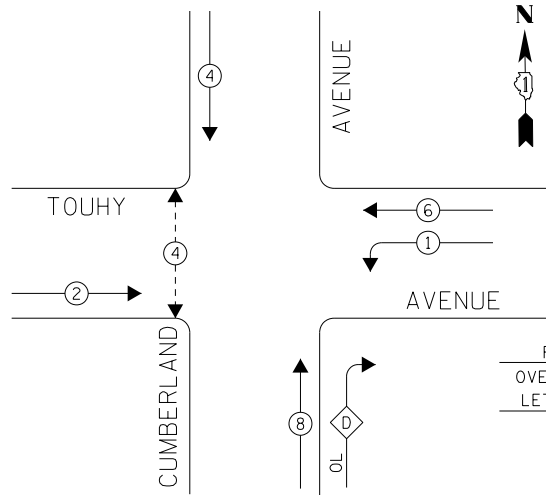
THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

TS 9205  
PARK RIDGE

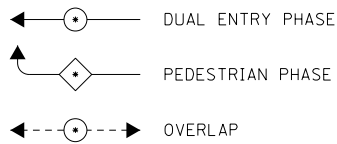
|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160X82-sht-TS9205.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

SCALE: SHEET OF SHEETS STA. TO STA.

EXISTING CONTROLLER SEQUENCE



LEGEND

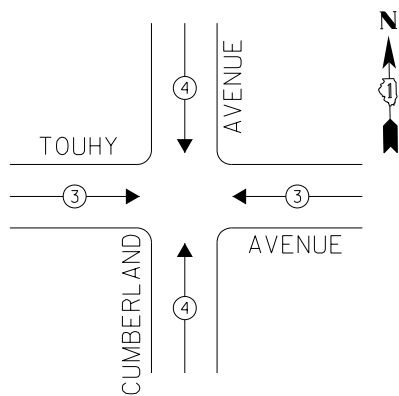


• NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| D              | = 8              | + 1             |

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17          | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25          | 0.25       | 87.5          |
| (GREEN)        | 14        | -               | 15          | 0.25       | 52.5          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 2         | -               | 25          | 1.00       | 50.0          |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 443.6         |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, IL 60196-1096**

ENERGY SUPPLY- **CONTACT TERRI BLECK**  
**PHONE 847-816-5239**  
**COMMONWEALTH EDISON**

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

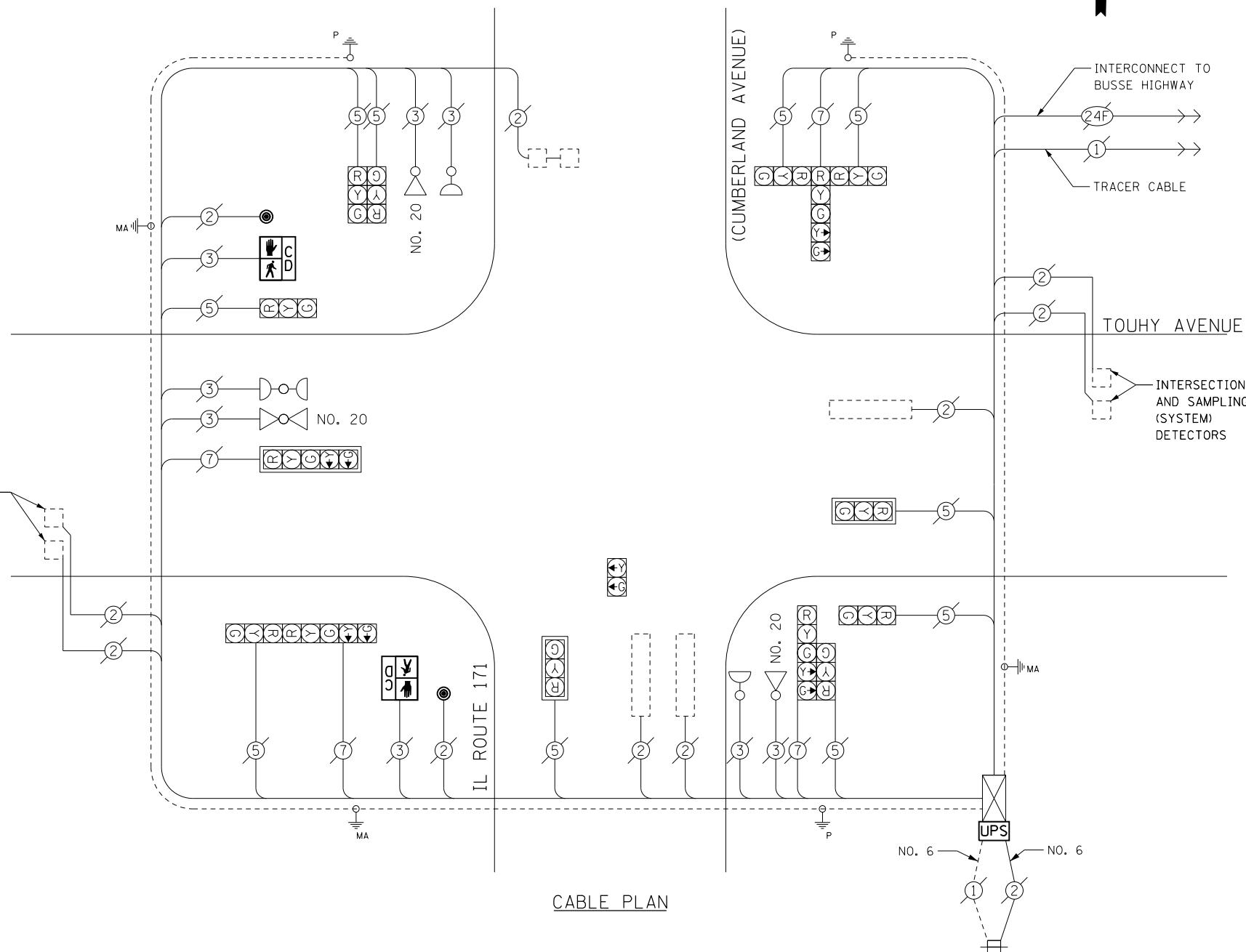
SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN PUSH-BUTTON



CABLE PLAN

TS 9190  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS9190.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

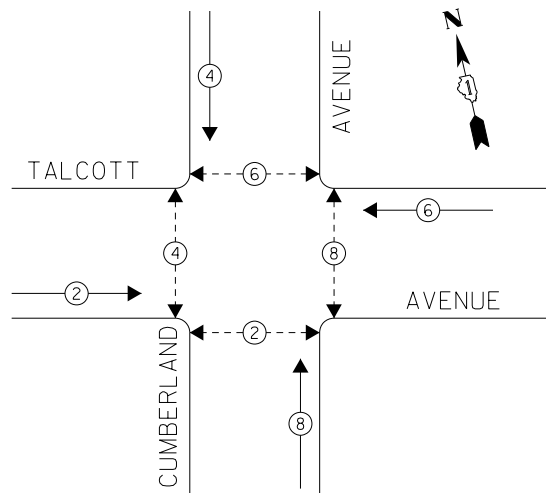
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOUHY AVENUE AT IL RTE. 171 (CUMBERLAND AVENUE) - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

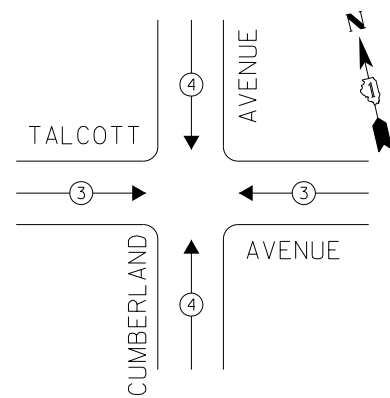
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 53        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE



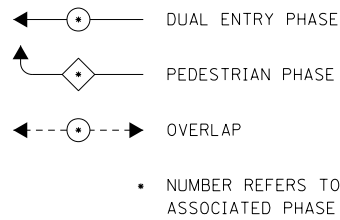
PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

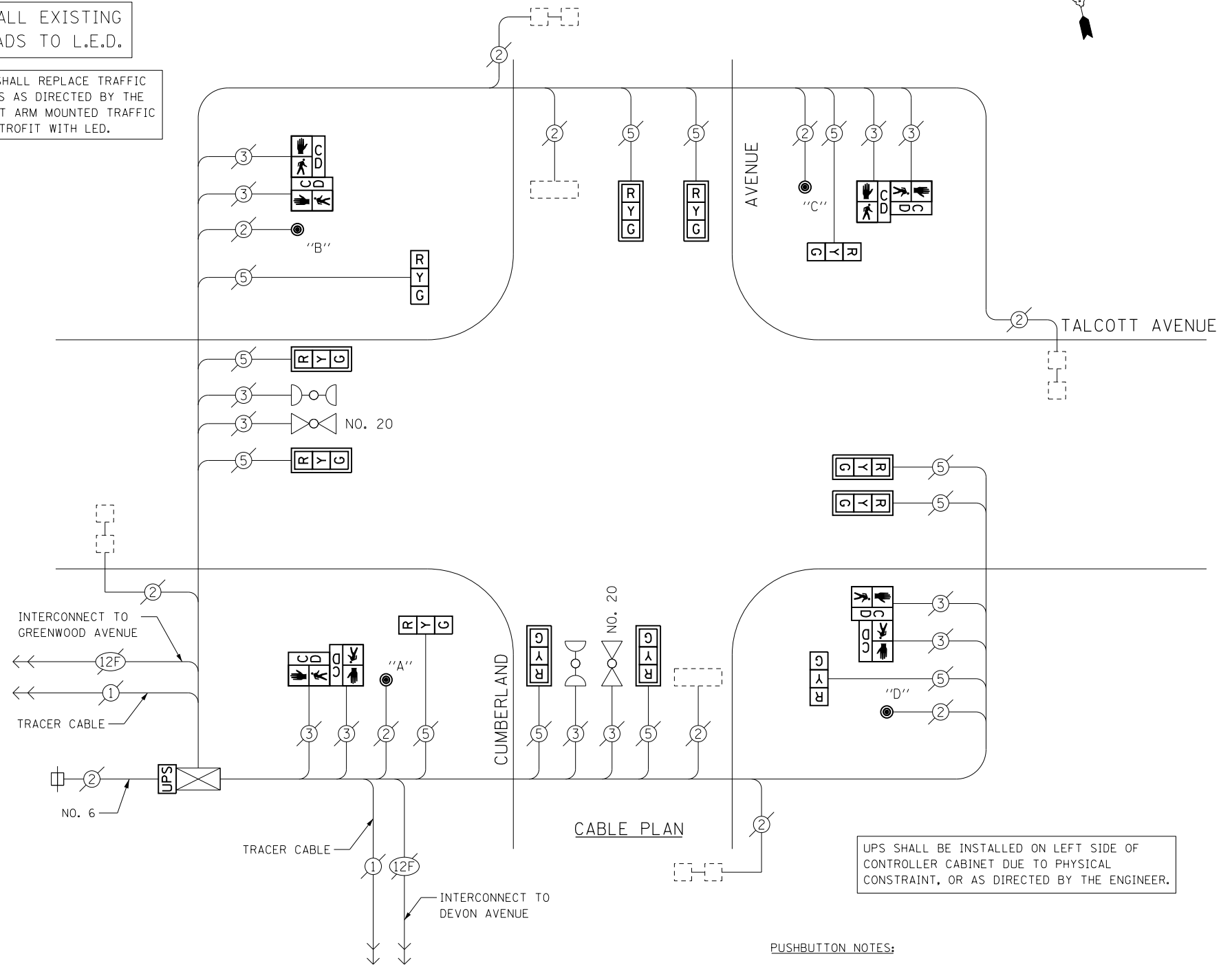
| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

LEGEND



RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

PUSHBUTTON NOTES:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 8        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 4        |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 12        | -               | 15          | 0.25       | 75.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>602.0</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT TERRI BLECK**  
 PHONE **847-816-5239**  
 COMMONWEALTH EDISON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS9185.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

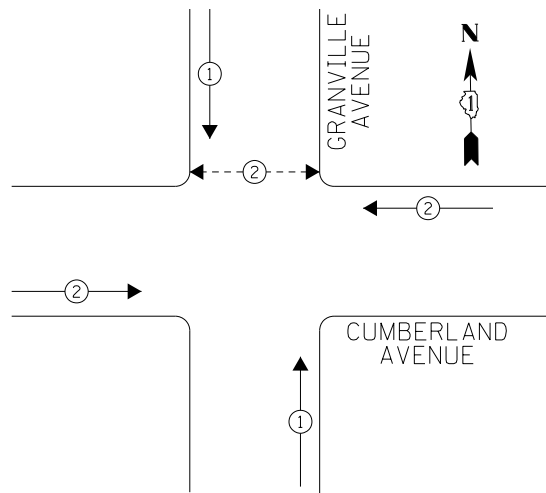
CUMBERLAND AVENUE AT TALCOTT AVENUE - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

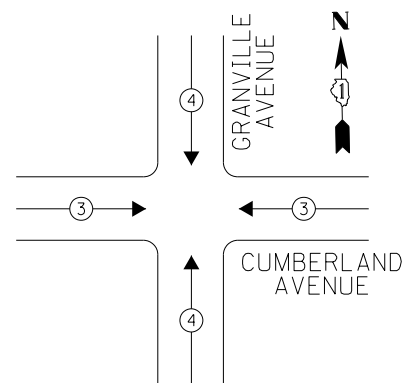
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 54        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 9185  
 PARK RIDGE

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

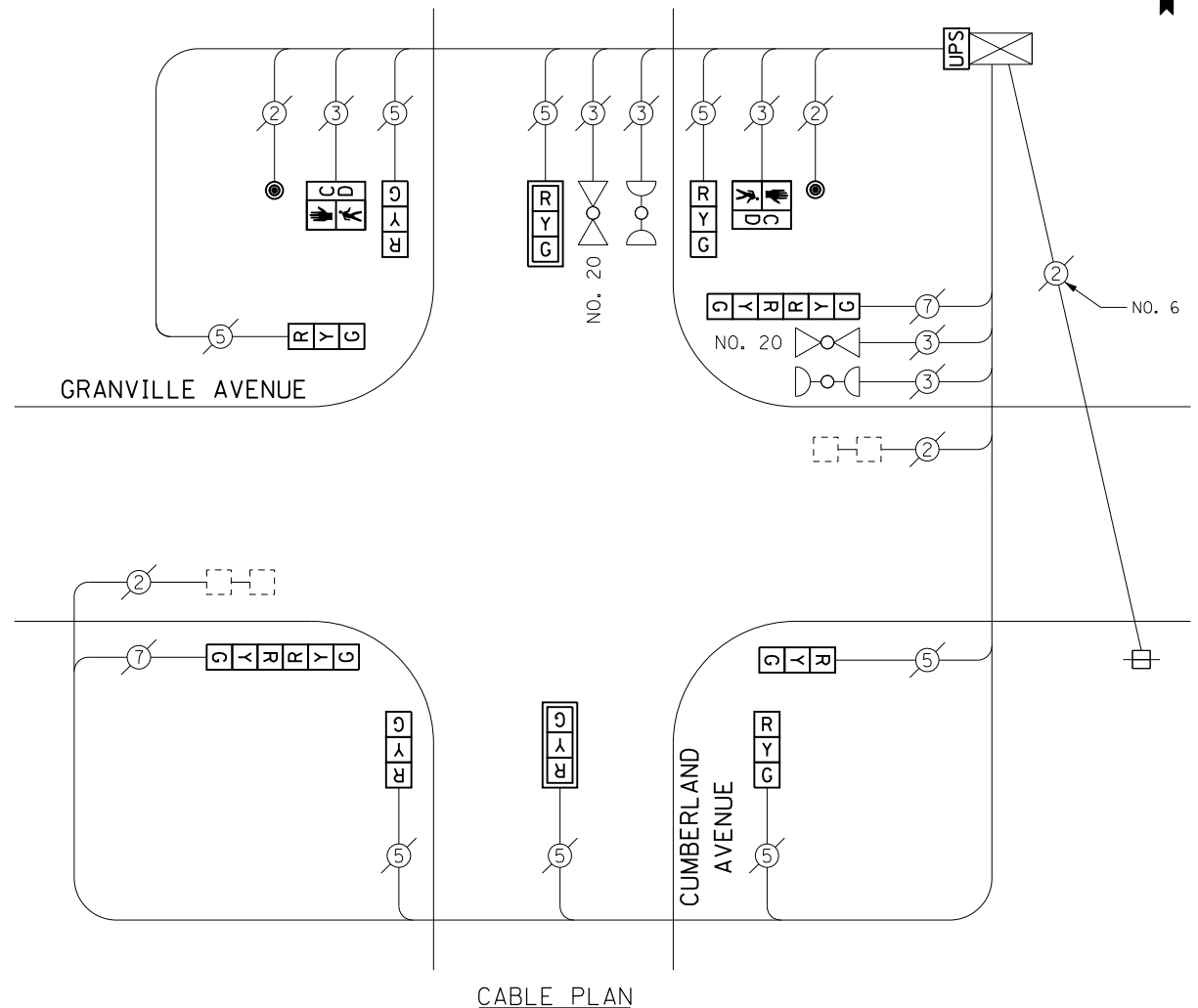
LEGEND

- ⊙ → DUAL ENTRY PHASE
- ◊ → OVERLAP
- ⊙ - - - → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN PUSH-BUTTON



CABLE PLAN

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |

**I. D. O. T.**  
**TRAFFIC SIGNAL INSTALLATION**  
**ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17  | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25  | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15  | 0.25       | 45.0          |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | 2         | -               | 25  | 1.00       | 50.0          |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -   | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | -   | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>397.0</b>  |

**ENERGY COSTS- BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY- CONTACT: TERRI BLECK**  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS9180.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

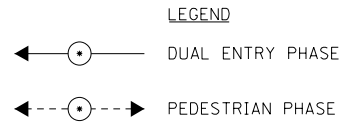
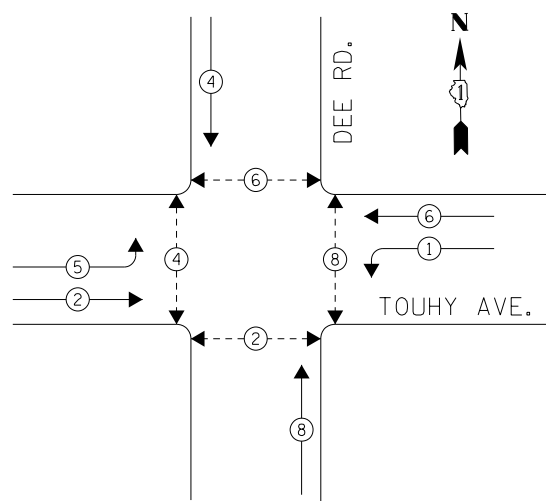
**CUMBERLAND AVENUE AT GRANVILLE AVENUE - CABLE PLAN**  
**SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**

SCALE: SHEET OF SHEETS STA. TO STA.

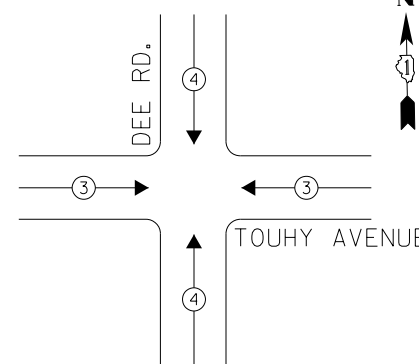
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 55        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 9180  
 PARK RIDGE

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↑ ↓ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17  | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25  | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15  | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12  | 0.10       | 9.6           |
| PED. SIGNAL    | 8         | -               | 25  | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -   | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | -   | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>556.6</b>  |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

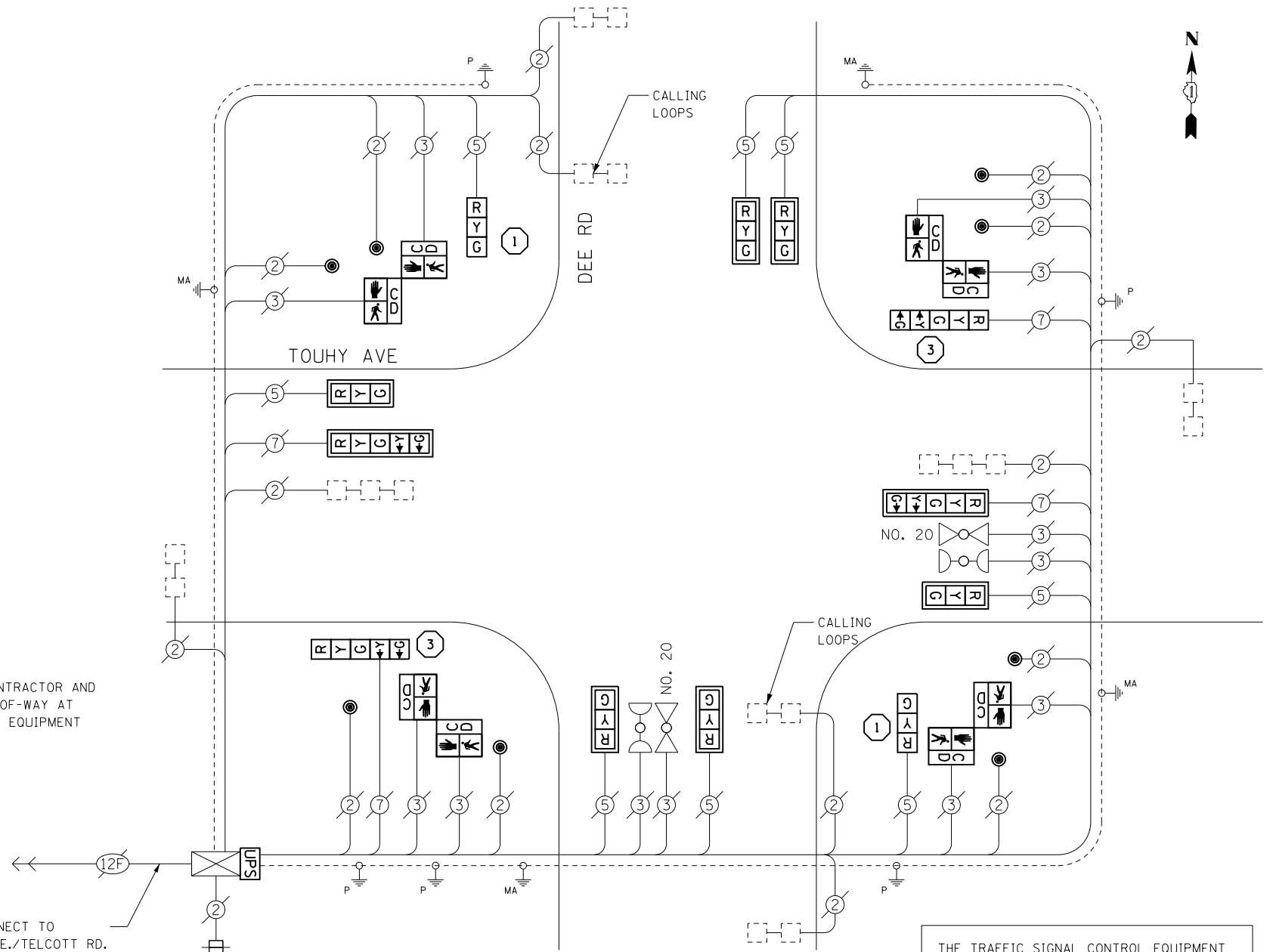
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 2        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 8        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 8        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

INTERCONNECT TO  
TOUHY AVE./TELCOTT RD.



CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTES

- ① THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- ③ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 5830  
PARK RIDGE

|                                       |                             |                   |           |
|---------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>D160XB2-sht-T55830.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                               | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                       | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                       |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

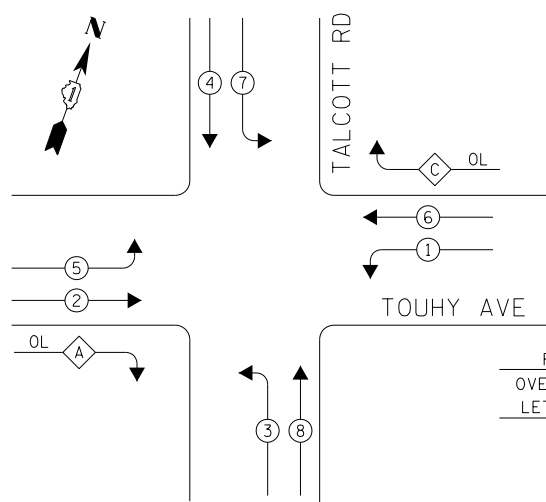
TOUHY AVENUE AT DEE ROAD - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

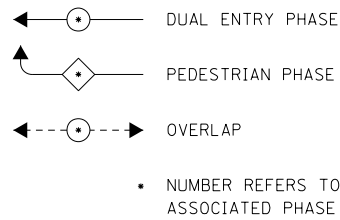
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 56        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



EXISTING CONTROLLER SEQUENCE

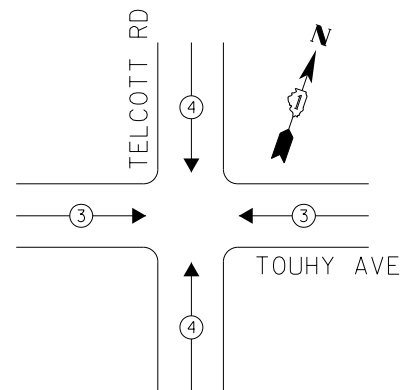


LEGEND



| RIGHT TURN OVERLAP PHASE DESIGNATION |   |                  |                   |
|--------------------------------------|---|------------------|-------------------|
| OVERLAP LETTER                       | = | PERMISSIVE PHASE | + PROTECTED PHASE |
| A                                    | = | 2                | + 3               |
| C                                    | = | 6                | + 7               |

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

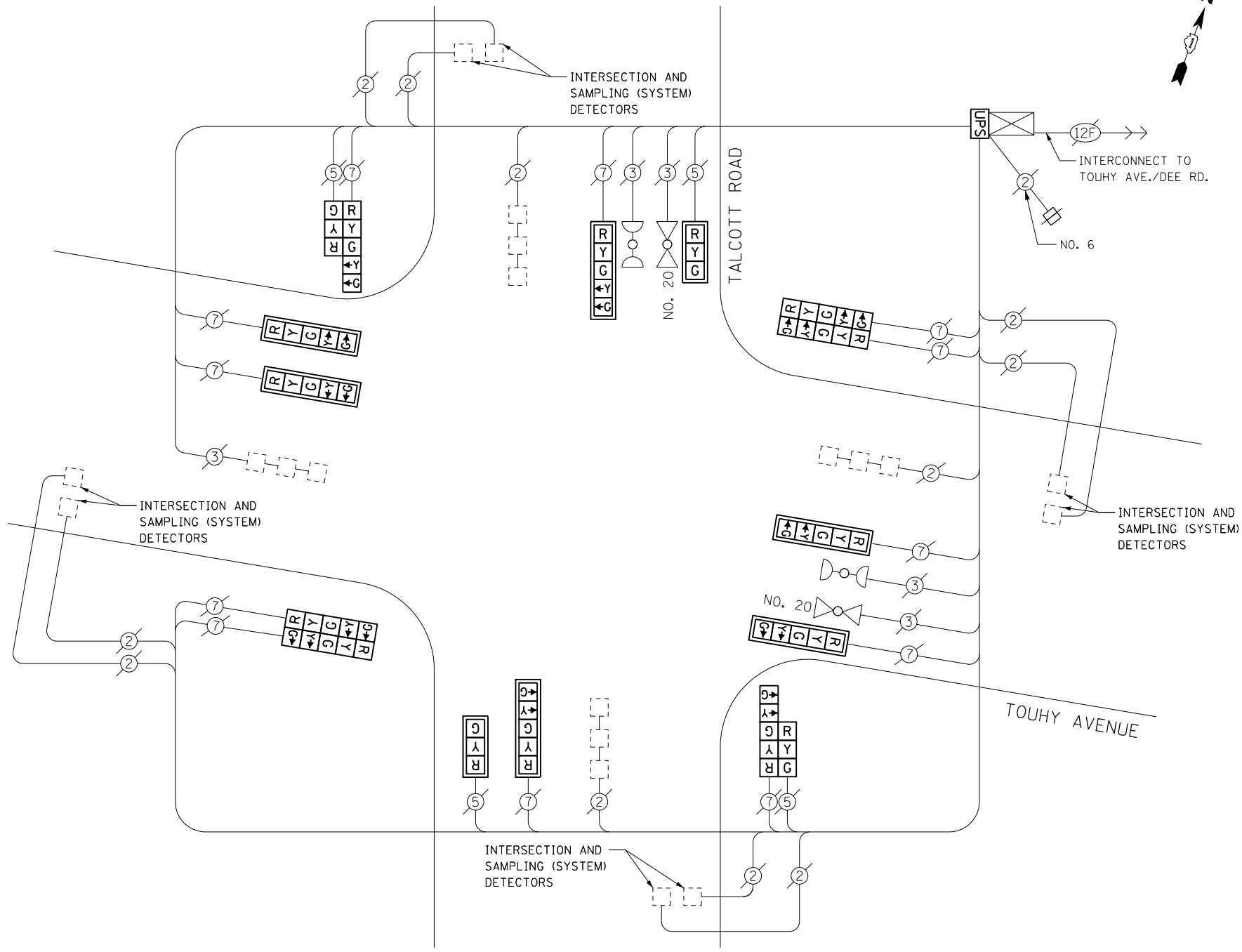
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 24        | -               | 12          | 0.10       | 28.8          |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>449.8</b>  |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 6        |
| SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT                 | EACH | 2        |



CABLE PLAN

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 5815  
PARK RIDGE

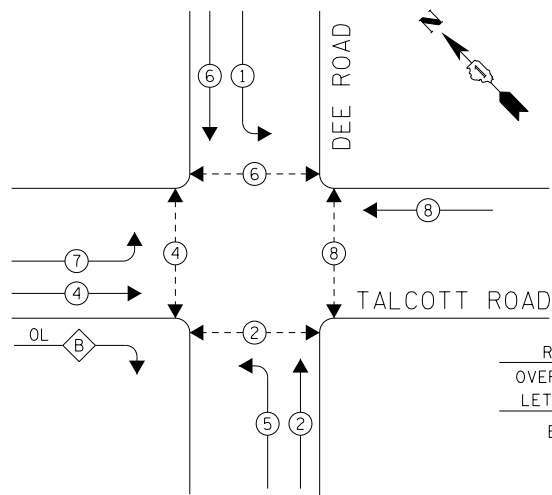
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|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS5815.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|   |       |           |              |
|---|-------|-----------|--------------|
| TOUHY AVENUE AT TALCOTT ROAD - CABLE PLAN                   |       |           |              |
| SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE |       |           |              |
| SCALE:  | SHEET | OF SHEETS | STA. TO STA. |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 57        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE



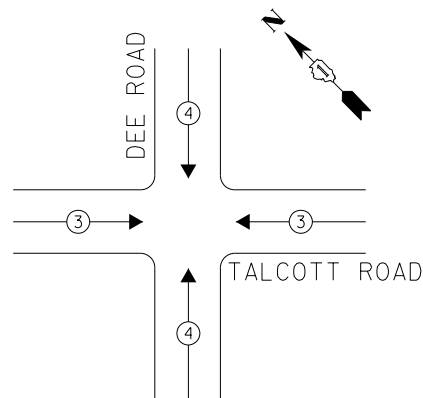
LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| B              | = 4              | + 5             |

PHASE DESIGNATION DIAGRAM



RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 |
| MOVEMENT                     |   |   |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 20        | -               | 12          | 0.10       | 24.0          |
| PED. SIGNAL    | 10        | -               | 25          | 1.00       | 250.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>695.0</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, IL 60196-1096**

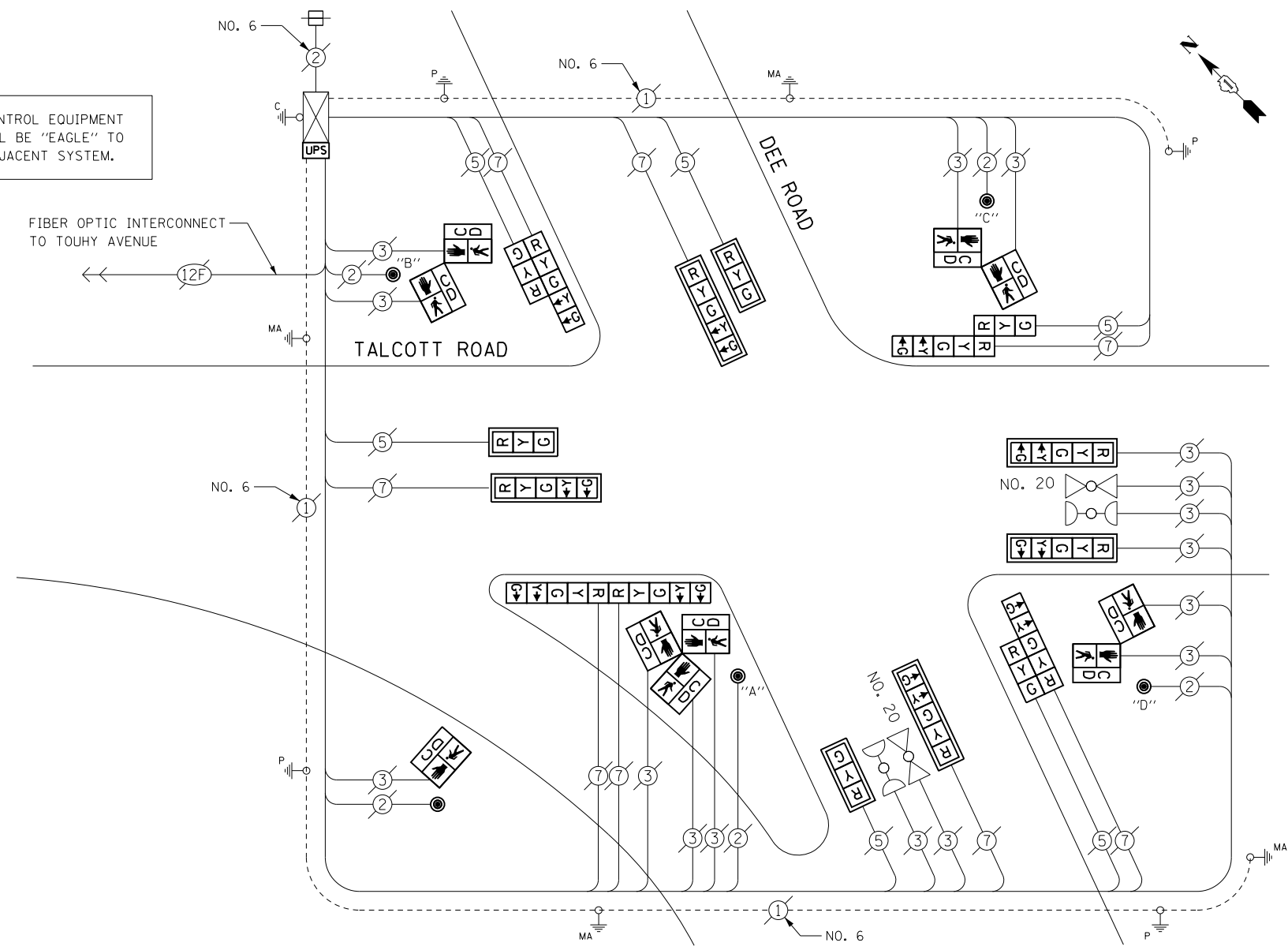
ENERGY SUPPLY- **CONTACT TERRI BLECK**  
**PHONE 847-816-5239**  
**COMMONWEALTH EDISON**

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER     | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER     | EACH | 3        |
| PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER     | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                      | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 5        |
| SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT                 | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING  | EACH | 5        |

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FIBER OPTIC INTERCONNECT TO TOUHY AVENUE



CABLE PLAN

PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

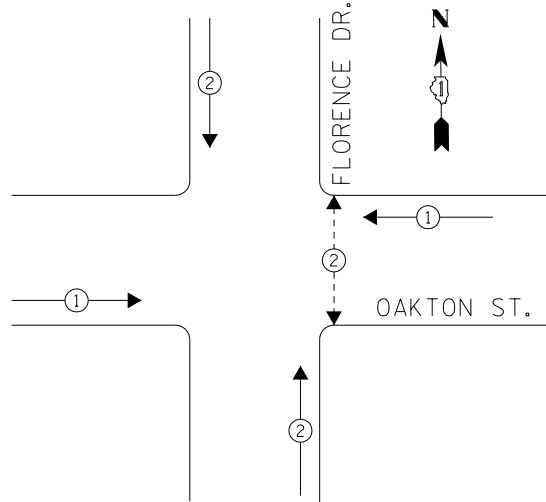
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 3 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 3-FACE
- 5 EACH PEDESTRIAN PUSH-BUTTON

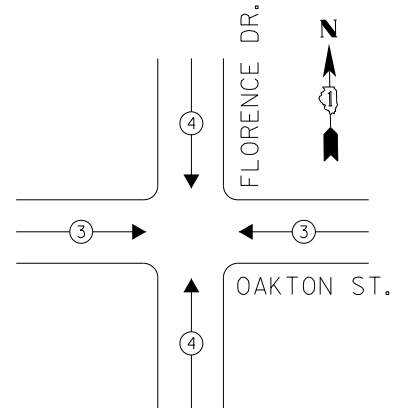
TS 5810  
PARK RIDGE



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

LEGEND

- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17  | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25  | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15  | 0.25       | 45.0          |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | 2         | -               | 25  | 1.00       | 50.0          |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -   | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | -   | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>397.0</b>  |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT TERRI BLECK  
PHONE 847-816-5239  
COMMONWEALTH EDISON

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 6        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

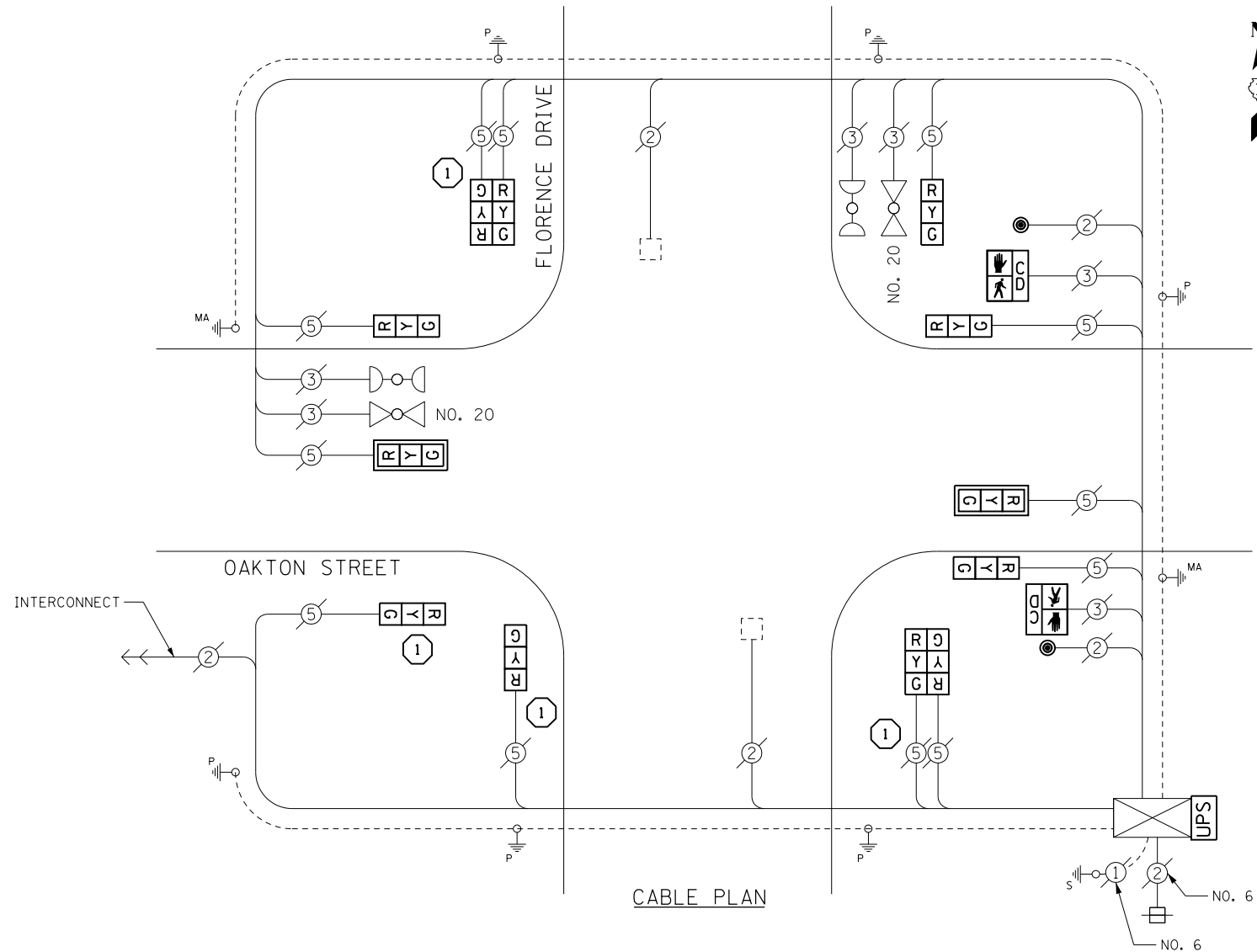
TS 5535  
PARK RIDGE

|                                    |                             |                   |           |
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| FILE NAME = D160XB2-sht-159535.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>OAKTON STREET AT FLORENCE DRIVE - CABLE PLAN</b>                    |       |           |              |
| <b>SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM &amp; EVP SEQUENCE</b> |       |           |              |
| SCALE:   | SHEET | OF SHEETS | STA. TO STA. |

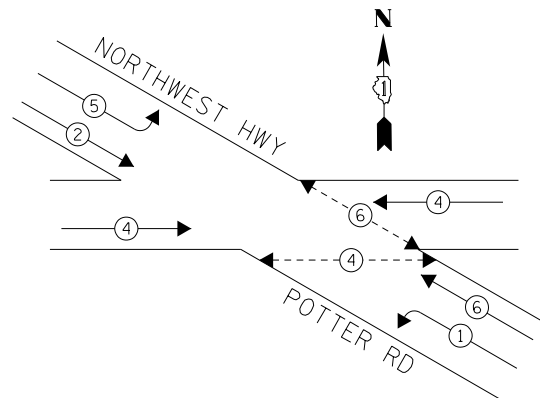
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 59        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|  |       |           |      |         |
|--|-------|-----------|------|---------|
| <b>OAKTON STREET AT FLORENCE DRIVE - CABLE PLAN</b>                    |       |           |      |         |
| <b>SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM &amp; EVP SEQUENCE</b> |       |           |      |         |
| SCALE:   | SHEET | OF SHEETS | STA. | TO STA. |

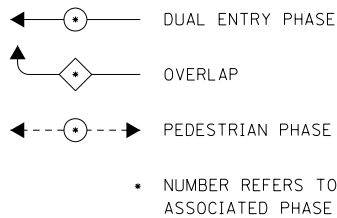




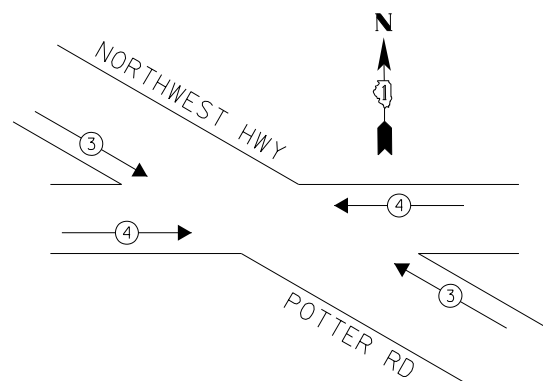
EXISTING CONTROLLER SEQUENCE



LEGEND



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 |
| MOVEMENT                     |   |   |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>456.6</b>  |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT TERRI BLECK  
PHONE 847-816-5239  
COMMONWEALTH EDISON

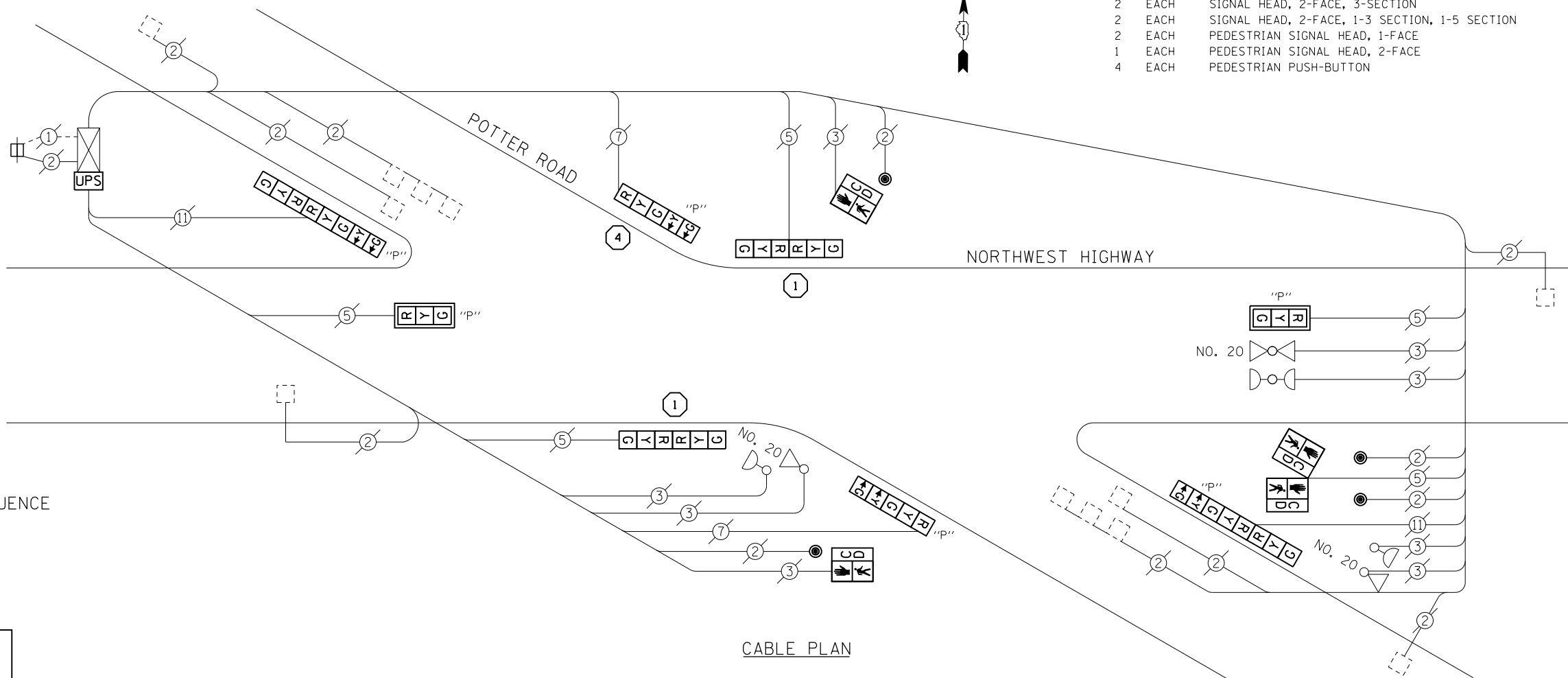
SCHEDULE OF QUANTITIES

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.   | EACH | 2        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                           | EACH | 2        |
| OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                            | EACH | 2        |
| COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER                            | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON   | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL  | EACH | 1        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

|   |      |   |
|---|------|---|
| 3 | EACH | TRAFFIC SIGNAL POST                           |
| 2 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION                |
| 2 | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION                |
| 2 | EACH | SIGNAL HEAD, 2-FACE, 3-SECTION                |
| 2 | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION |
| 2 | EACH | PEDESTRIAN SIGNAL HEAD, 1-FACE                |
| 1 | EACH | PEDESTRIAN SIGNAL HEAD, 2-FACE                |
| 4 | EACH | PEDESTRIAN PUSH-BUTTON                        |



CABLE PLAN

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 4 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 18 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 5510  
PARK RIDGE

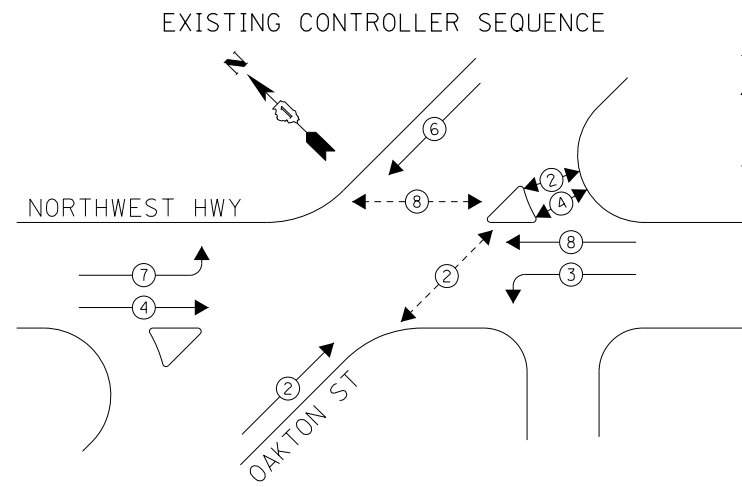
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|-------------------------------------|-----------------------------|-------------------|-----------|
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| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

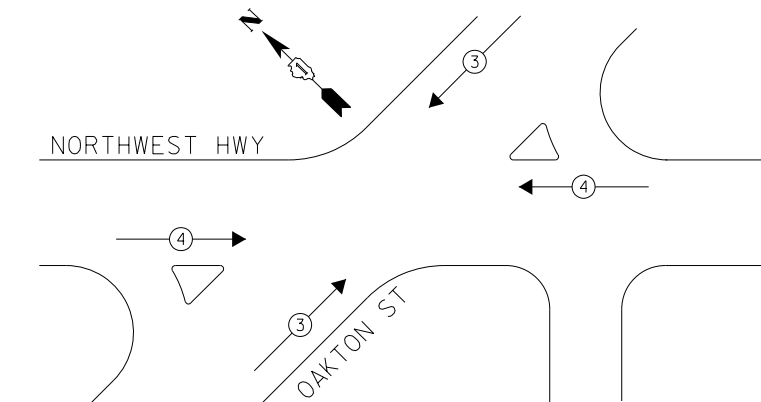
NORTHWEST HIGHWAY AT POTTER ROAD - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 60        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

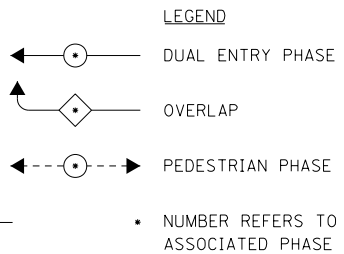


PHASE DESIGNATION DIAGRAM



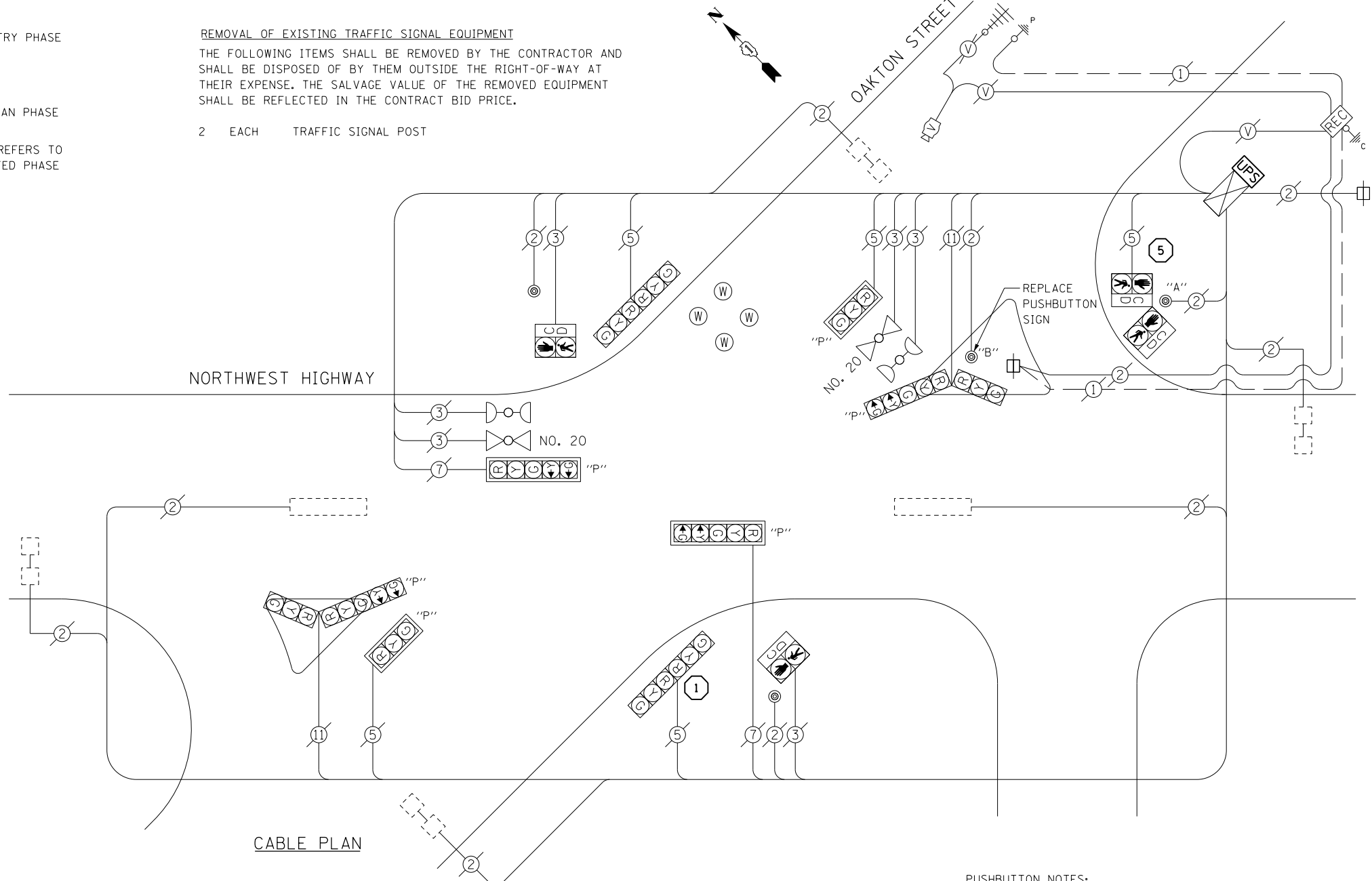
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ↘ ↗ | ↓ ↑ |



**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2 EACH TRAFFIC SIGNAL POST



CABLE PLAN

**CONSTRUCTION NOTE:**  
 CONTRACTOR SHALL REMOVE AND REPLACE THE INDICATED EXISTING PEDESTRIAN PUSHBUTTON SIGN WITH MUTCD R10-3e SIGN. ALL NECESSARY MOUNTING HARDWARE SHALL BE INCLUDED IN THE COST OF SIGN REPLACEMENT. REMOVED SIGN PANEL SHALL BE DISPOSED OF BY CONTRACTOR AT THEIR EXPENSE.

**PUSHBUTTON NOTES:**  
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 2 AND 8

**I. D. O. T.  
 TRAFFIC SIGNAL INSTALLATION  
 ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>456.6</b>  |

**SCHEDULE OF QUANTITIES**

| ITEMS   | UNIT  | QUANTITY |
|---|-------|----------|
| SIGN PANEL - TYPE 1                                 | SQ FT | 1        |
| REMOVE SIGN PANEL - TYPE 1                          | SQ FT | 1        |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH  | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.        | EACH  | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.        | EACH  | 1        |
| RELOCATE EXISTING SIGNAL HEAD                       | EACH  | 2        |
| RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD            | EACH  | 2        |
| RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON            | EACH  | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH  | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH  | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL               | EACH  | 1        |

**CONSTRUCTION NOTES**

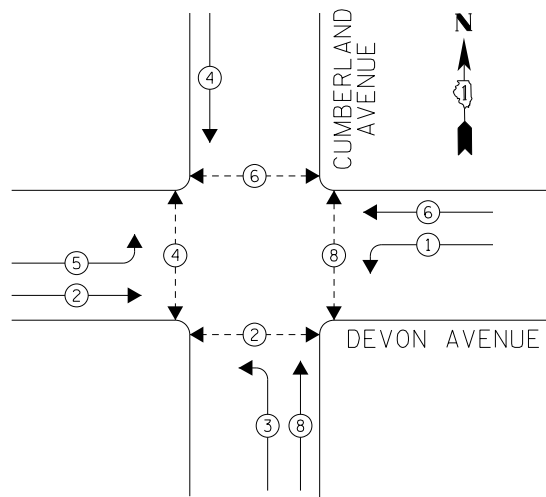
- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- 5 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 10 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

**ENERGY COSTS-** **BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

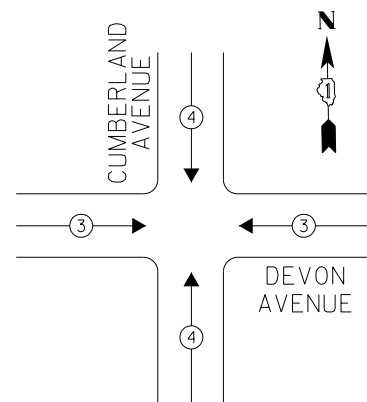
**ENERGY SUPPLY-** **CONTACT TERRI BLECK**  
 PHONE 847-816-5239  
 COMMONWEALTH EDISON

TS 5505  
 PARK RIDGE

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

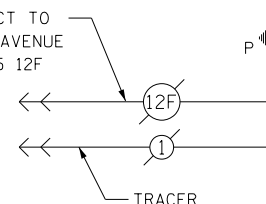
LEGEND

- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

INTERCONNECT TO GREENWOOD AVENUE NO. 62.5/125 12F

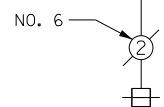


TRACER CABLE NO. 10

INTERCONNECT TO TALCOTT AVENUE NO. 62.5/125 12F

DEVON AVENUE

CUMBERLAND AVENUE



CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 1- FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER     | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER     | EACH | 2        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                      | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 5        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 3        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING  | EACH | 4        |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 12        | -               | 12          | 0.10       | 14.4          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>635.4</b>  |

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-

CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS4955.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

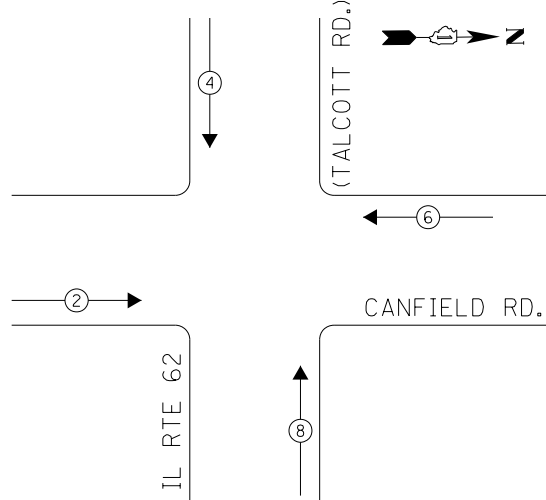
CUMBERLAND AVENUE AT DEVON AVENUE - CABLE PLAN SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

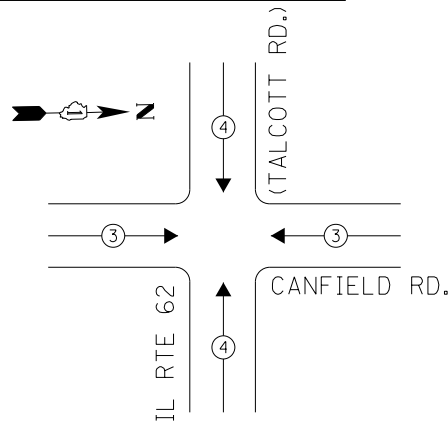
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 62        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 4955 PARK RIDGE

EXISTING CONTROLLER SEQUENCE



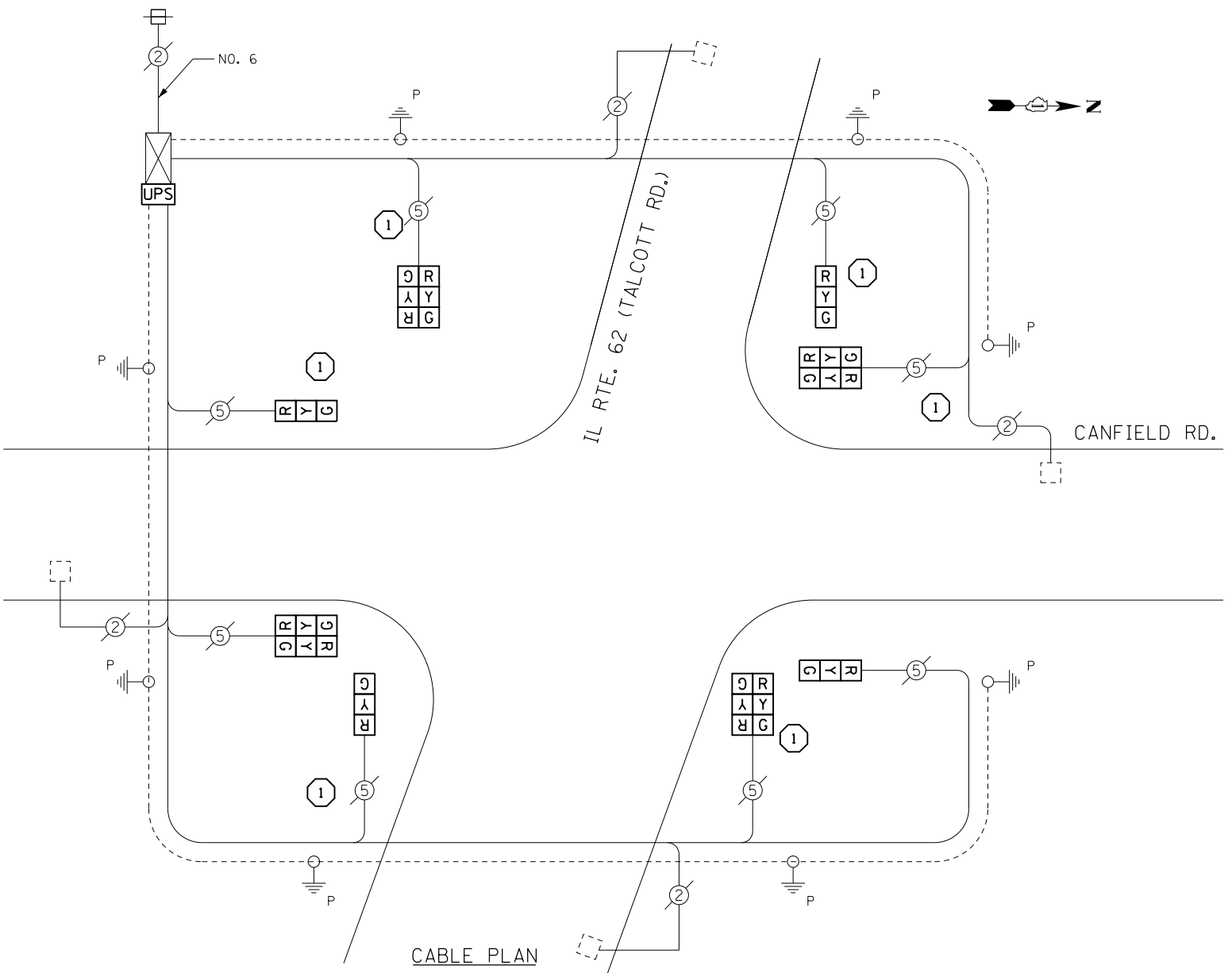
PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

- LEGEND
- → ○ DUAL ENTRY PHASE
  - ◇ → ◇ OVERLAP
  - → ○ PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 347.0         |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT  
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH TRAFFIC SIGNAL POST
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 3-SECTION

SCHEDULE OF QUANTITIES

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.         | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET                   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT             | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                | EACH | 1        |

CONSTRUCTION NOTES

- ① THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 4260  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS4260.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

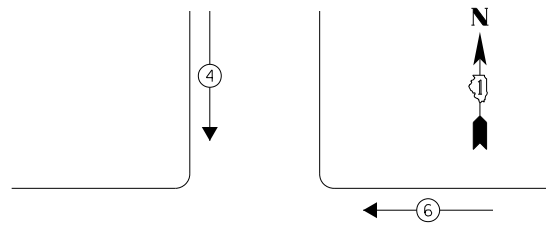
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL RTE. 62 (TALCOTT RD.) AT CANFIELD RD. - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

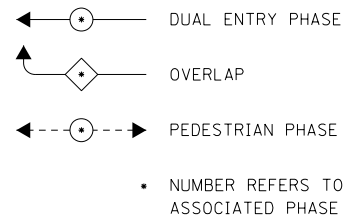
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 63        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

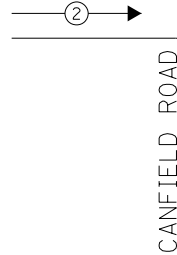
EXISTING CONTROLLER SEQUENCE



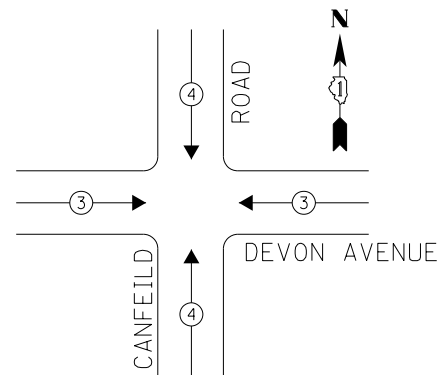
LEGEND



DEVON AVENUE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17  | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25  | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15  | 0.25       | 45.0          |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | -         | -               | 25  | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -   | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | -   | 0.50       | -             |
| TOTAL =        |           |                 |     |            | 347.0         |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

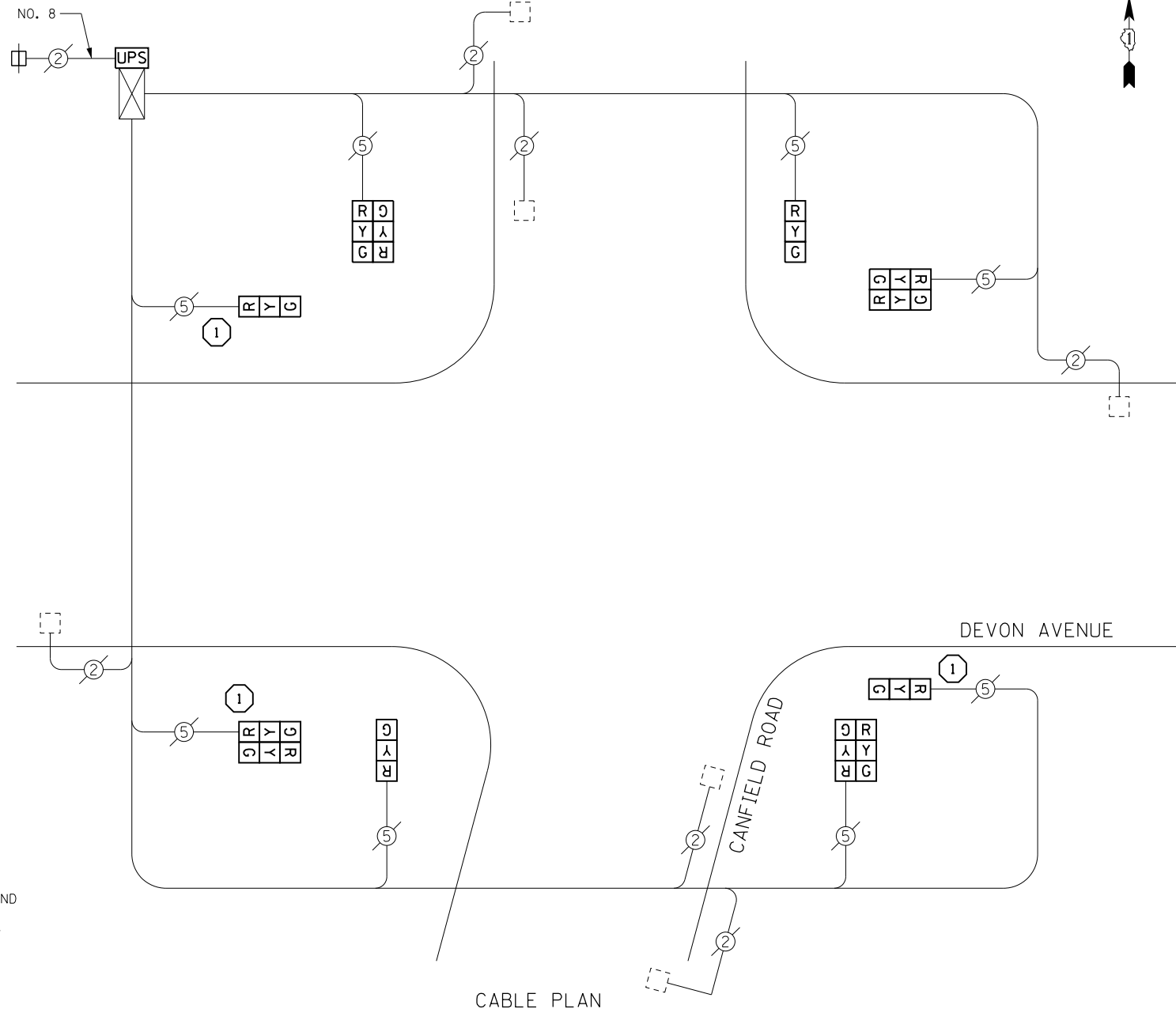
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH TRAFFIC SIGNAL POST
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 3-SECTION

SCHEDULE OF QUANTITIES

| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.         | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET                   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT             | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                | EACH | 1        |



CABLE PLAN

CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 4255  
PARK RIDGE

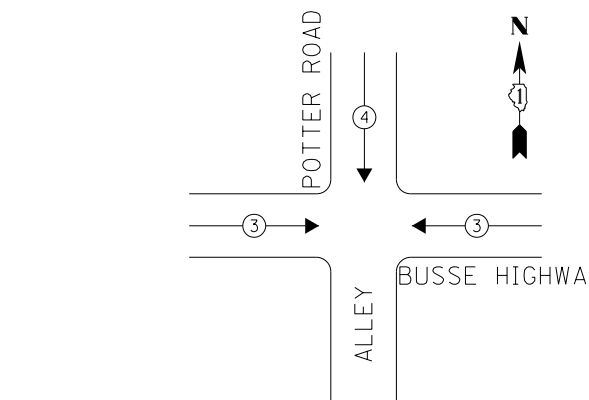
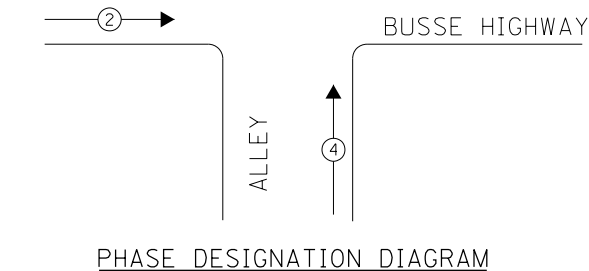
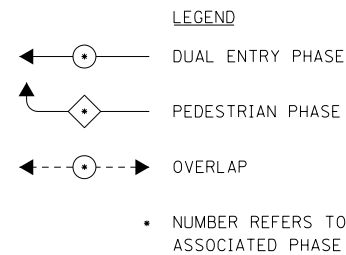
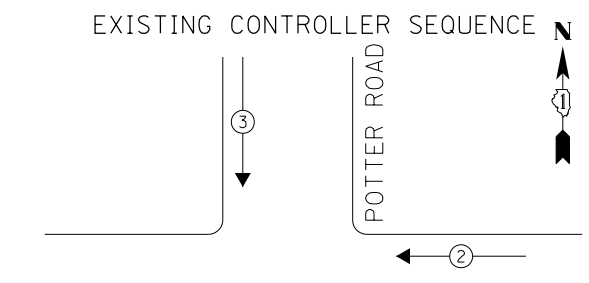
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|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS4255.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|   |       |           |              |
|---|-------|-----------|--------------|
| DEVON AVENUE AT CANFIELD ROAD - CABLE PLAN                  |       |           |              |
| SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE |       |           |              |
| SCALE:  | SHEET | OF SHEETS | STA. TO STA. |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 64        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |





EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |   |
|------------------------------|-----|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4 |
| MOVEMENT                     | ← → | ↓ |

**I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17  | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25  | 0.25       | 87.5          |
| (GREEN)        | 18        | -               | 15  | 0.25       | 67.5          |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | -         | -               | -   | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -   | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | -   | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>399.0</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT TERRI BLECK**  
PHONE **847-816-5239**  
**COMMONWEALTH EDISON**

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH TRAFFIC SIGNAL POST
- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-4 SECTION
- 2 EACH SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-4 SECTION

**SCHEDULE OF QUANTITIES**

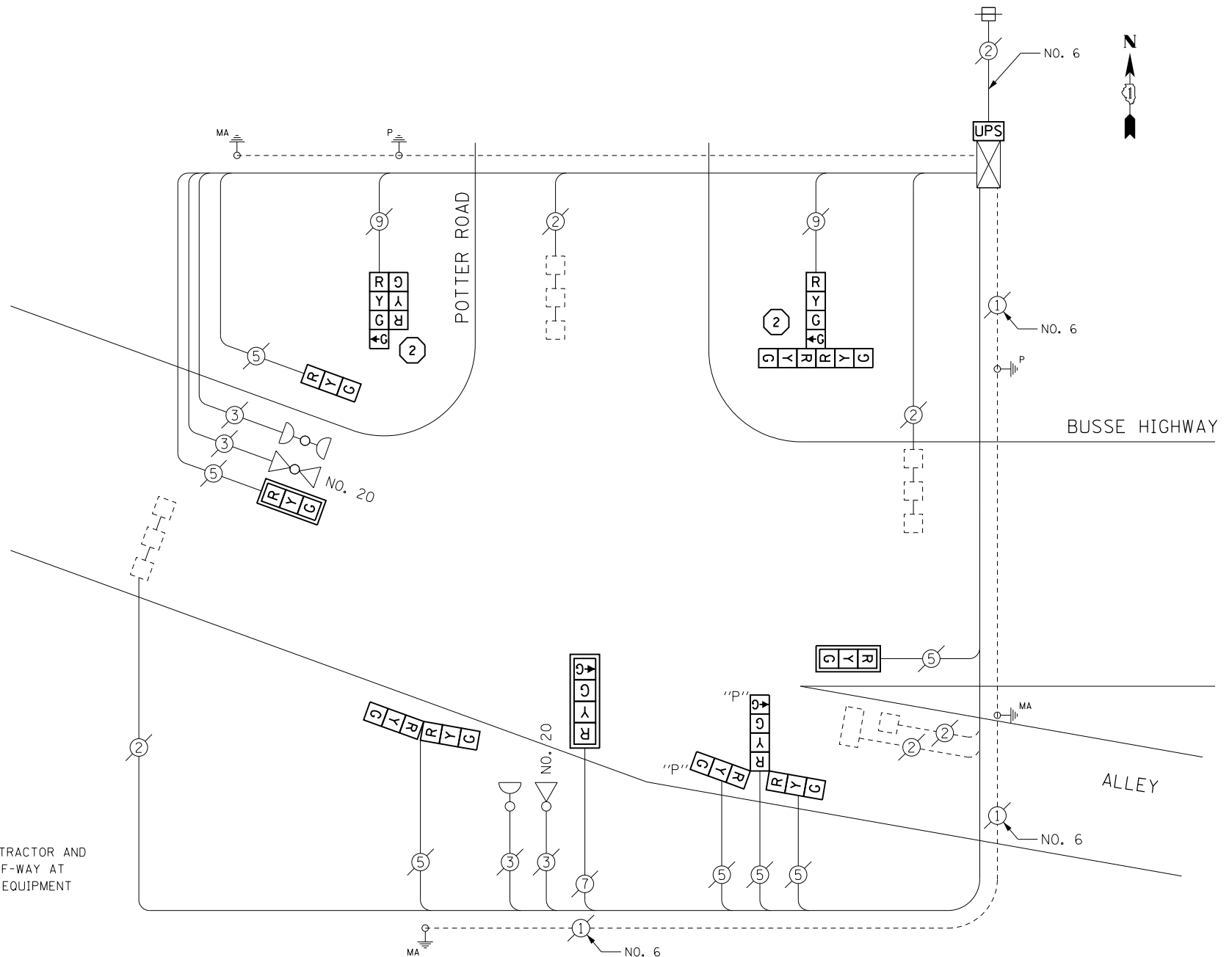
| ITEMS  | UNIT | QUANTITY |
|--|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.   | EACH | 2        |
| SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-4 SECTION, BRACKET MOUNTED  | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED  | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED  | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM   | EACH | 3        |
| MODIFY EXISTING CONTROLLER CABINET   | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL  | EACH | 1        |
| COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED | EACH | 1        |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION NOTES**

- 2 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 15 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 4245  
PARK RIDGE



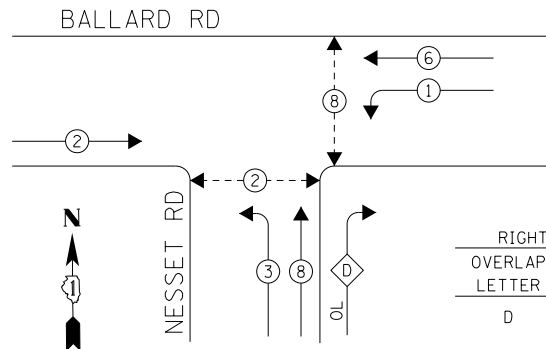
**CABLE PLAN**

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS4245.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>BUSSE HIGHWAY AT POTTER ROAD - CABLE PLAN</b>                       |       |           |              |
| <b>SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM &amp; EVP SEQUENCE</b> |       |           |              |
| SCALE:   | SHEET | OF SHEETS | STA. TO STA. |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 65        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE



- LEGEND**
- ← ● → DUAL ENTRY PHASE
  - ◊ OVERLAP
  - ← ● - - ● → PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| D              | = 8              | + 1             |

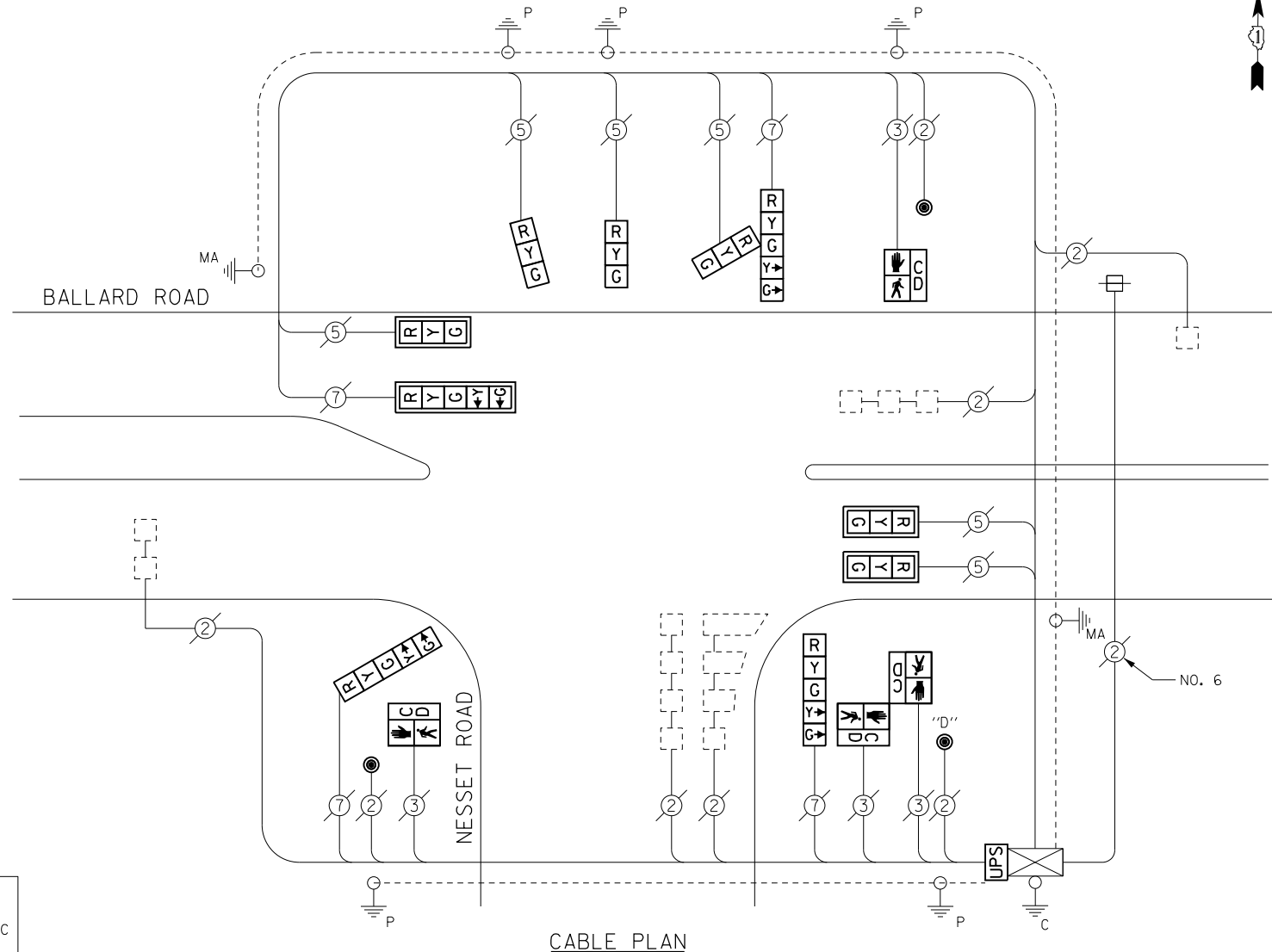
PHASE DESIGNATION DIAGRAM

**PUSHBUTTON NOTES:**  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



CABLE PLAN

I. D. O. T.  
 TRAFFIC SIGNAL INSTALLATION  
 ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 10        | -               | 17          | 0.50       | 85.0          |
| (YELLOW)       | 10        | -               | 25          | 0.25       | 62.5          |
| (GREEN)        | 10        | -               | 15          | 0.25       | 37.5          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>419.6</b>  |

**ENERGY COSTS-**      **BILLED TO:** IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-**      **CONTACT** TERRI BLECK  
**PHONE** 847-816-5239  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER     | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER     | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                      | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING  | EACH | 3        |

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

|   |      |                                |
|---|------|--------------------------------|
| 2 | EACH | PEDESTRIAN SIGNAL HEAD, 1-FACE |
| 1 | EACH | PEDESTRIAN SIGNAL HEAD, 2-FACE |
| 3 | EACH | PEDESTRIAN PUSH-BUTTON         |

TS 4146  
 PARK RIDGE

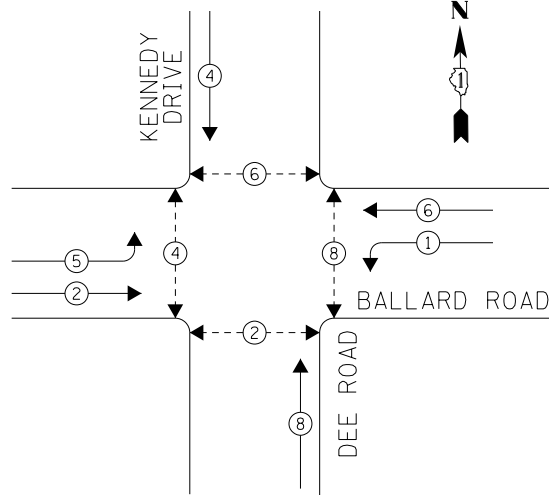
|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS4146.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>BALLARD ROAD AT NESSET ROAD - CABLE PLAN</b>        |       |           |              |
| <b>SCHEDULE OF QUANTITIES AND PHASE DESIG. DIAGRAM</b> |       |           |              |
| SCALE:   | SHEET | OF SHEETS | STA. TO STA. |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 66        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

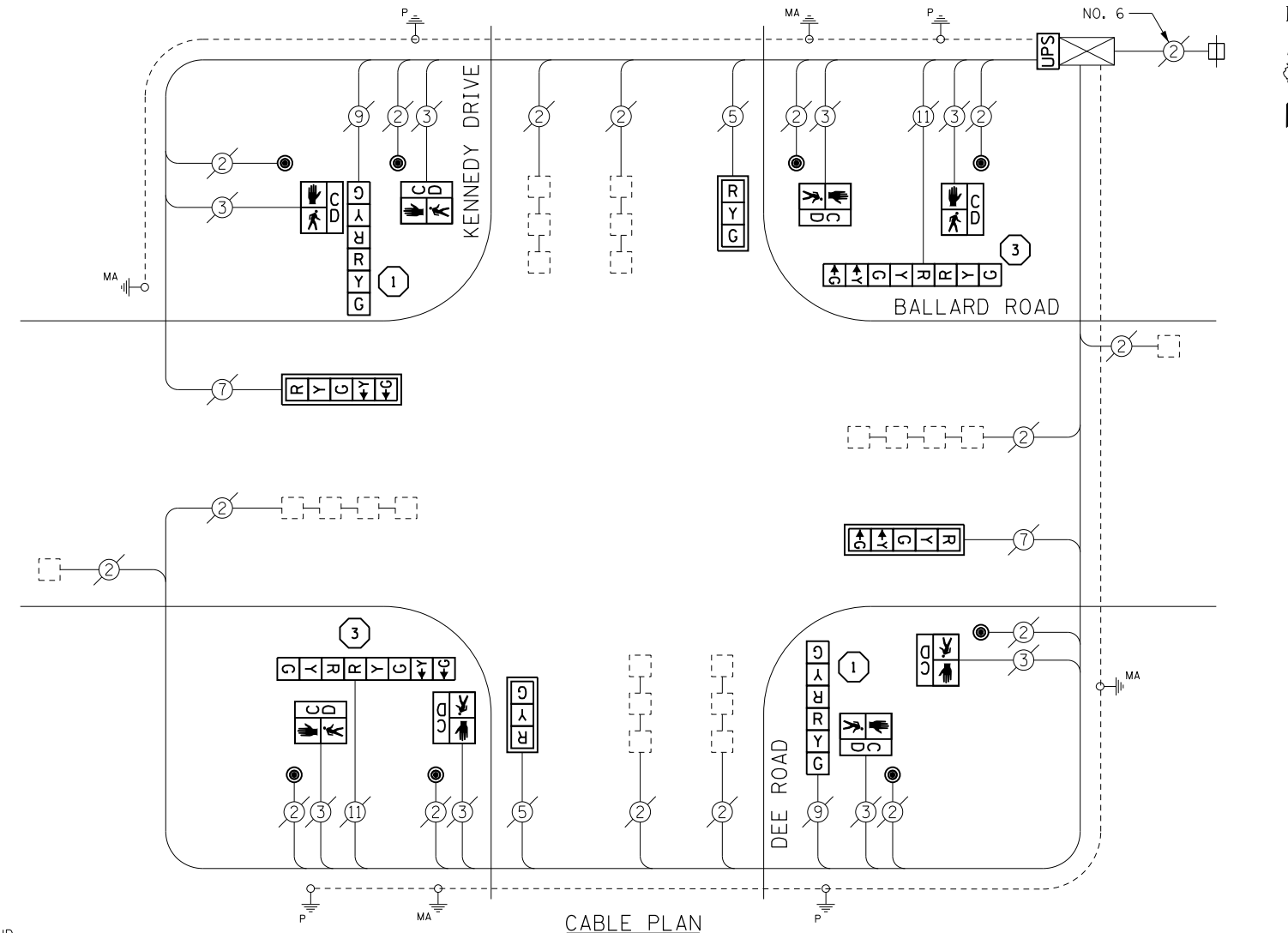
EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 2        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED       | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 8        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 4        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 8        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>556.6</b>  |

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-

CONTACT TERRI BLECK  
PHONE 847-816-5239  
COMMONWEALTH EDISON

CONSTRUCTION NOTES

- ① THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- ③ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 4145  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60XB2-sht-TS4145.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

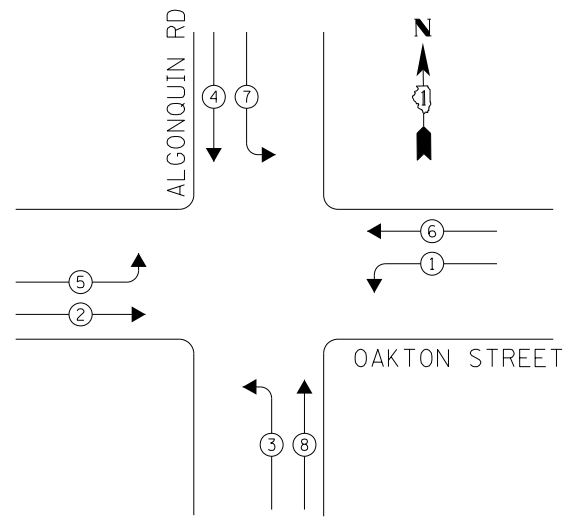
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BALLARD ROAD AT DEE ROAD / KENNEDY DRIVE - CABLE PLAN  
SCHEDULE OF QUANTITIES AND PHASE DESIG. DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

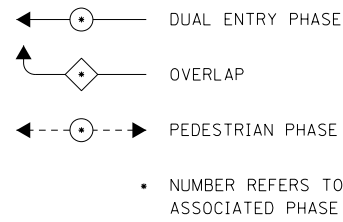
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
|                           | 2014-007TS | COOK   | 88           | 67        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE



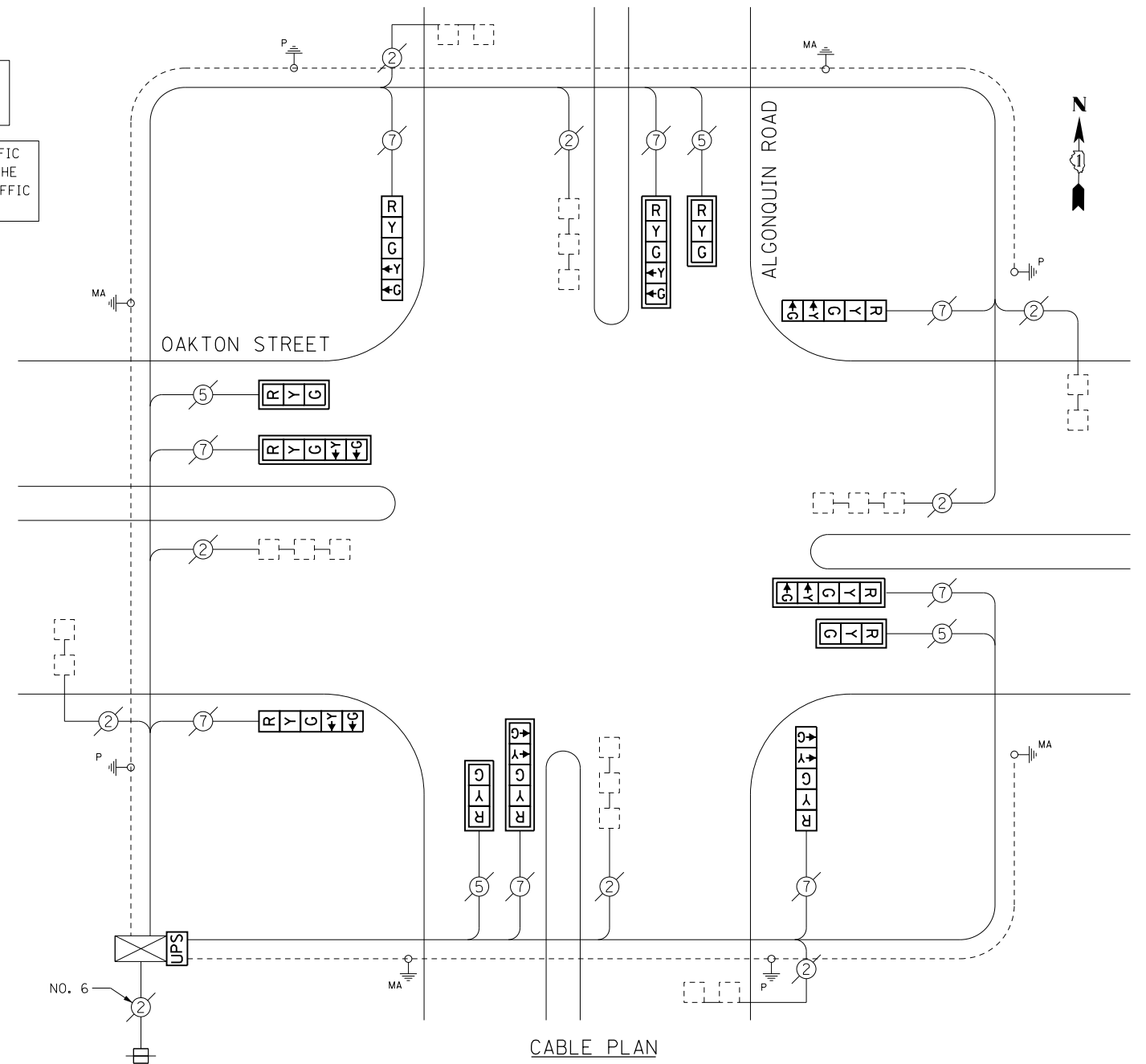
PHASE DESIGNATION DIAGRAM

LEGEND



RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



CABLE PLAN

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 366.2         |

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-

CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION             | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                    | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET                              | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                           | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT  | EACH | 4        |

TS 4125  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS4125.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

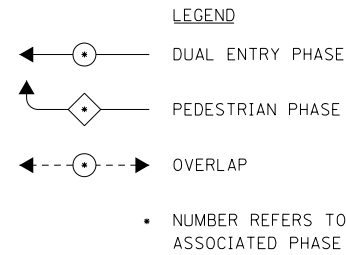
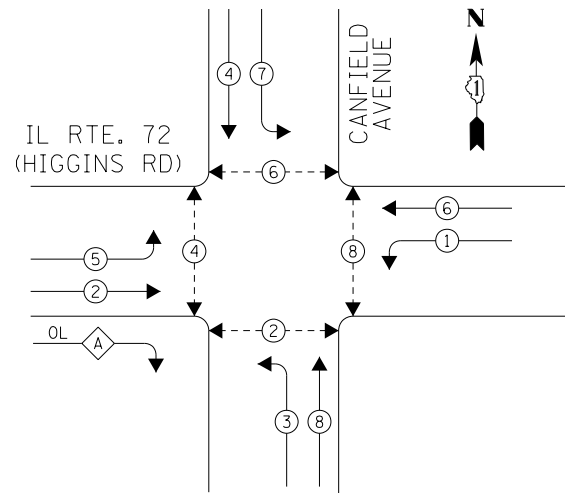
ALGONQUIN ROAD AT OAKTON STREET - CABLE PLAN  
SCHEDULE OF QUANTITIES AND PHASE DESIG. DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 68        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



EXISTING CONTROLLER SEQUENCE



**RIGHT TURN OVERLAP PHASE DESIGNATION**

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| A              | = 2              | + 3             |

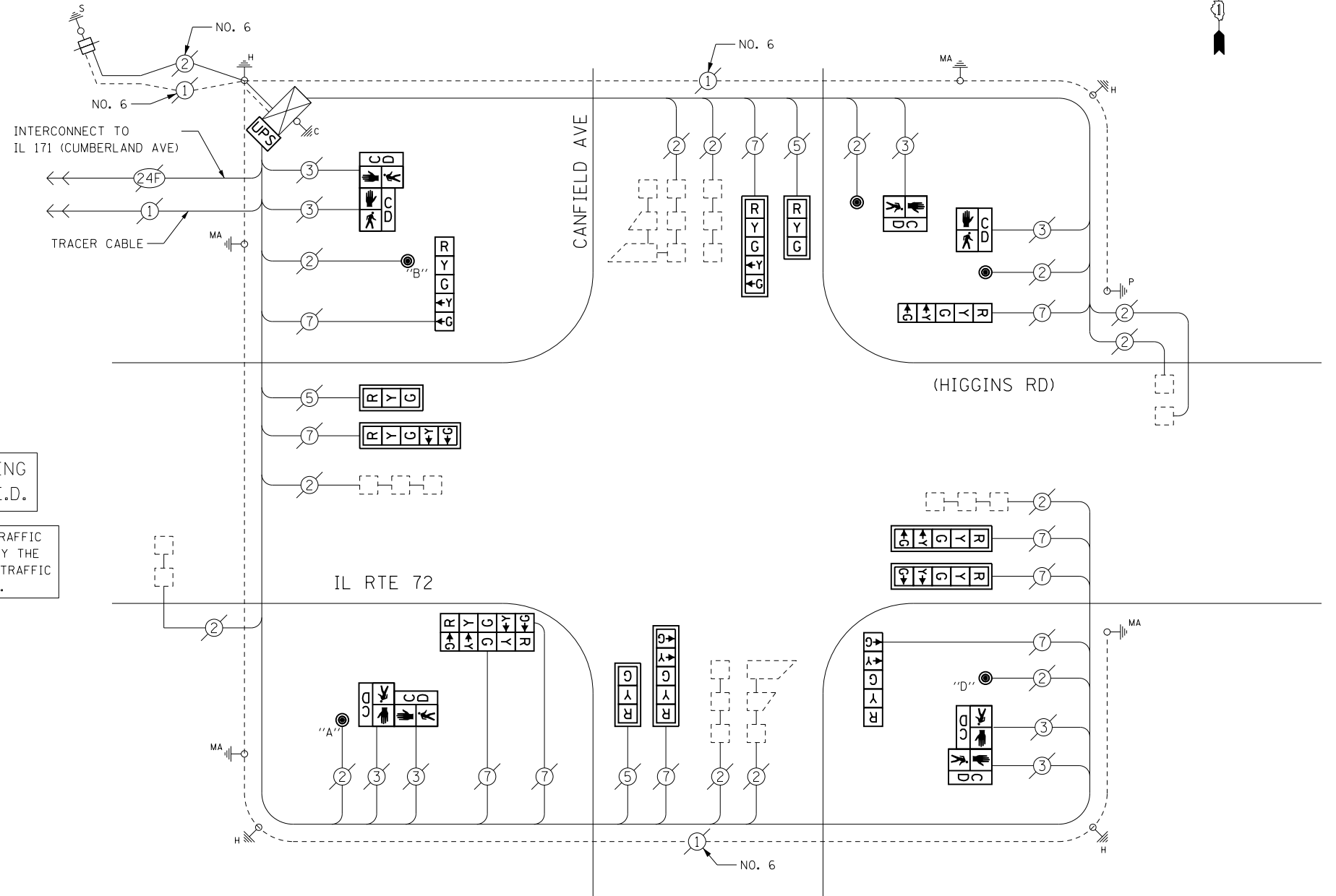
**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 3 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 5 EACH PEDESTRIAN PUSH-BUTTON

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



CABLE PLAN

**PUSHBUTTON NOTES:**

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 3        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 5        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 3        |
| SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT             | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 5        |

**I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 13        | -               | 17  | 0.50       | 110.5         |
| (YELLOW)       | 13        | -               | 25  | 0.25       | 81.25         |
| (GREEN)        | 13        | -               | 15  | 0.25       | 48.75         |
| ARROW          | 20        | -               | 12  | 0.10       | 24.0          |
| PED. SIGNAL    | 8         | -               | 25  | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -   | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | -   | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>589.50</b> |

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-

CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-shr-153300.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL RTE. 72 (HIGGINS ROAD) AT CANFIELD ROAD - CABLE PLAN  
 SCHEDULE OF QUANTITIES AND PHASE DESIG. DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 69        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 3300  
 PARK RIDGE



I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 44        | -               | 17  | 0.50       | 374.0         |
| (YELLOW)       | 44        | -               | 25  | 0.25       | 275.0         |
| (GREEN)        | 44        | -               | 15  | 0.25       | 165.0         |
| ARROW          | 32        | -               | 12  | 0.10       | 38.4          |
| PED. SIGNAL    | 24        | -               | 25  | 1.00       | 600.0         |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -   | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | -   | 0.50       | -             |
| TOTAL =        |           |                 |     |            | 1577.4        |

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.        | EACH | 8        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.        | EACH | 2        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.        | EACH | 6        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.        | EACH | 4        |
| RELOCATE EXISTING SIGNAL HEAD                       | EACH | 23       |
| RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD            | EACH | 21       |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                | EACH | 20       |

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 18 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 10 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

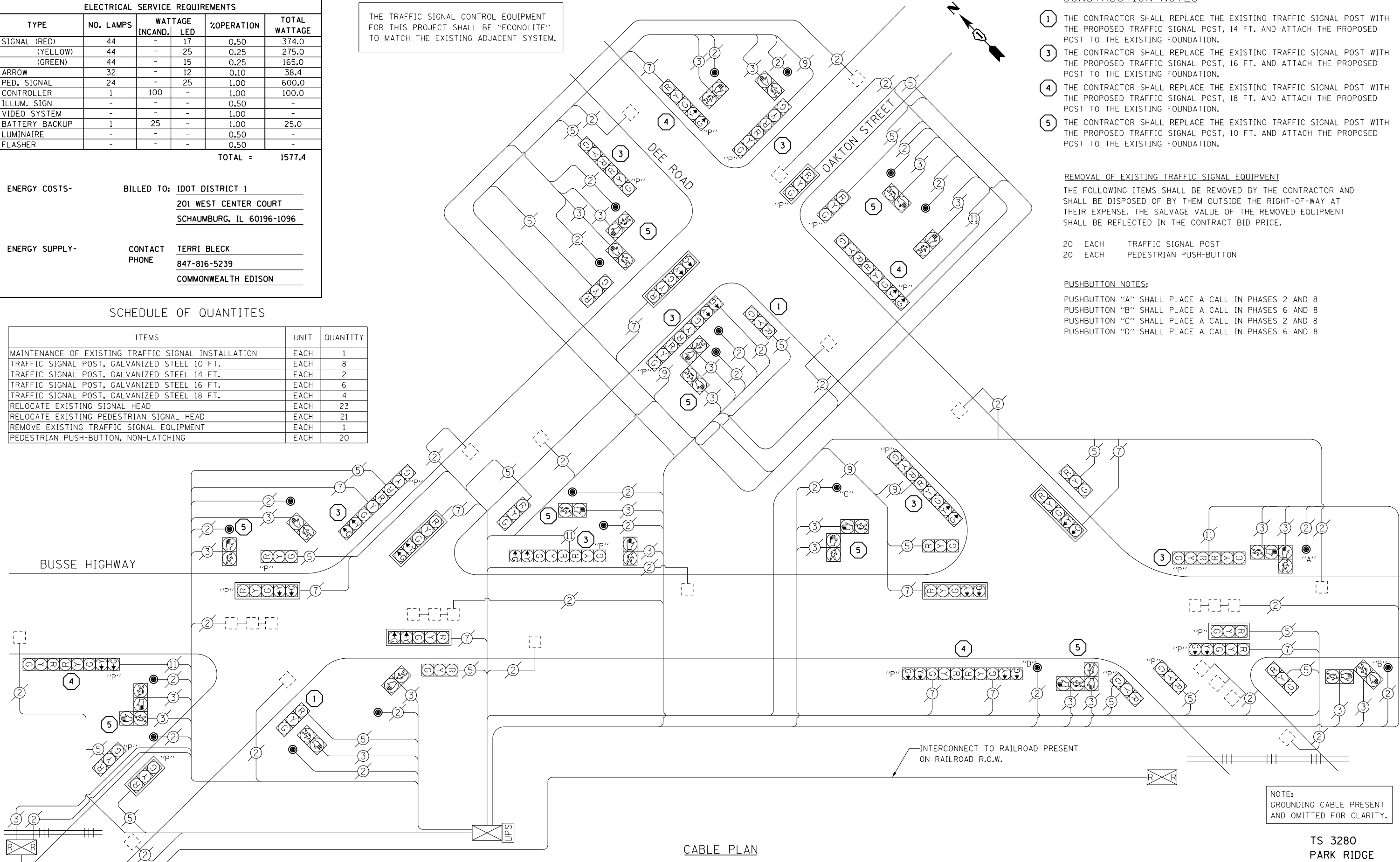
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 20 EACH TRAFFIC SIGNAL POST
- 20 EACH PEDESTRIAN PUSH-BUTTON

PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 8
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 2 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 6 AND 8



INTERCONNECT TO RAILROAD PRESENT ON RAILROAD R.O.W.

NOTE: GROUNDING CABLE PRESENT AND OMITTED FOR CLARITY.

CABLE PLAN

TS 3280  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS3280.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUSSE HIGHWAY AT OAKTON STREET, DEE ROAD  
DEE ROAD AT OAKTON STREET  
CABLE PLAN AND SCHEDULE OF QUANTITIES

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 70        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

SCALE: SHEET OF SHEETS STA. TO STA.





RAILROAD PREEMPTION SEQUENCE OF OPERATION

| FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER                    | 1  | 7  | 14 | 19 | 25 | 31 | 34 | 37 | RESUME<br>3 + 7 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|--|----|----|----|----|----|----|----|----|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RAILROAD PREEMPTION INTERVAL   | 1A | 1B | 1C | 1D | 1E | 1F | 1G | 1H | 1J              | 1K | 1L | 1M | 1N | 1P | 1Q | 1R | 2  | 3  | 4  | 5  | 6  | 7  |    |   |
| CHANGE TO  | 1B | 2  | 1D | 2  | 1F | 2  | 1H | 2  | 1K              | 2  | 1M | 2  | 1P | 2  | 1R | 2  | 3  | 4  | 5  | 6  | 7  |    |    |   |
| BUSSE HWY. SE/B AT OAKTON ST. NEAR AND FAR RIGHT SIGNALS             | R  | R  | Y  | R  | R  | Y  | R  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R  |   |
| BUSSE HWY. SE/B AT OAKTON ST. FAR LEFT AND MAST ARM SIGNALS          | R  | R  | Y  | R  | R  | Y  | R  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R  |   |
| BUSSE HWY. NW/B AT OAKTON ST. NEAR AND FAR RIGHT SIGNALS             | R  | R  | R  | R  | Y  | R  | Y  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R |
| BUSSE HWY. NW/B AT OAKTON ST. FAR LEFT AND MAST ARM SIGNALS          | R  | R  | R  | R  | Y  | R  | Y  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R |
| BUSSE HWY. SE/B AT DEE RD. NEAR AND FAR RIGHT SIGNALS                | R  | R  | Y  | R  | R  | R  | Y  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R |
| BUSSE HWY. SE/B AT DEE RD. FAR LEFT AND MAST ARM SIGNAL              | R  | R  | Y  | R  | R  | R  | Y  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R |
| BUSSE HWY. NW/B AT DEE RD. NEAR AND FAR RIGHT SIGNALS                | Y  | R  | Y  | R  | Y  | R  | Y  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R |
| BUSSE HWY. NW/B AT DEE RD. FAR LEFT AND MAST ARM SIGNALS             | Y  | R  | Y  | R  | Y  | R  | Y  | R  | R               | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | R  | G  | Y  | R |
| OAKTON ST. E/B AT BUSSE HWY. NEAR AND FAR RIGHT SIGNAL               | R  | R  | R  | R  | R  | R  | R  | R  | R               | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | Y  | R  | R  | R  | R |
| OAKTON ST. E/B AT BUSSE HWY. FAR LEFT AND MAST ARM SIGNALS           | R  | R  | R  | R  | R  | R  | R  | R  | R               | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | Y  | R  | R  | R  | R |
| OAKTON ST. W/B AT BUSSE HWY. ALL SIGNALS                             | R  | R  | R  | R  | R  | R  | R  | R  | R               | R  | R  | R  | R  | Y  | R  | Y  | R  | R  | R  | R  | R  | R  | R  | R |
| OAKTON ST. E/B AT DEE RD. ALL SIGNALS                                | R  | R  | R  | R  | R  | R  | R  | R  | R               | R  | R  | R  | R  | R  | G  | G  | G  | G  | G  | Y  | R  | R  | R  | R |
| OAKTON ST. W/B AT DEE RD. NEAR AND FAR RIGHT SIGNALS                 | R  | R  | R  | R  | R  | R  | R  | R  | R               | R  | R  | R  | R  | R  | G  | G  | G  | G  | G  | Y  | R  | R  | R  | R |
| OAKTON ST. W/B AT DEE RD. FAR LEFT AND MAST ARM SIGNALS              | R  | R  | R  | R  | R  | R  | R  | R  | R               | R  | R  | R  | R  | R  | G  | G  | G  | G  | G  | Y  | R  | R  | R  | R |
| DEE RD. N/B AT BUSSE HWY. NEAR AND FAR RIGHT SIGNALS                 | R  | R  | R  | R  | R  | R  | R  | R  | R               | R  | G  | G  | G  | G  | G  | G  | G  | G  | G  | Y  | R  | R  | R  | R |
| DEE RD. N/B AT BUSSE HWY. FAR LEFT AND MAST ARM SIGNAL               | R  | R  | R  | R  | R  | R  | R  | R  | R               | R  | G  | G  | G  | G  | G  | G  | G  | G  | G  | Y  | R  | R  | R  | R |
| DEE RD. S/B AT BUSSE HWY. ALL SIGNALS                                | R  | R  | R  | R  | R  | R  | R  | R  | R               | R  | Y  | R  | R  | R  | Y  | R  | R  | R  | R  | R  | R  | R  | R  | R |
| DEE RD. N/B AT OAKTON ST. NEAR AND FAR RIGHT SIGNALS                 | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y               | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R |
| DEE RD. N/B AT OAKTON ST. FAR LEFT SIGNAL                            | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y               | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R |
| DEE RD. S/B AT OAKTON ST. ALL SIGNALS                                | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y               | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R  | Y  | R |
| PEDESTRIAN CROSSING OAKTON ST. ON NORTHEAST SIDE OF BUSSE HWY.       | DW | DW | DW | DW | FL | DW | FL | DW | DW              | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW |   |
| PEDESTRIAN CROSSING OAKTON ST. ON SOUTHWEST SIDE OF BUSSE HWY.       | DW | DW | FL | DW | DW | DW | FL | DW | DW              | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW |   |
| PEDESTRIAN CROSSING BUSSE HWY. ON NORTH AND SOUTH SIDES OF OAKTON ST | DW | DW | DW | DW | DW | DW | DW | DW | DW              | DW | DW | DW | DW | FL | DW | FL | DW | DW | DW | DW | DW | DW | DW |   |
| PEDESTRIAN CROSSING DEE RD. ON NORTHEAST SIDE OF BUSSE HWY.          | DW | DW | DW | DW | FL | DW | FL | DW | DW              | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW |   |
| PEDESTRIAN CROSSING DEE RD. ON SOUTHWEST SIDE OF BUSSE HWY.          | DW | DW | FL | DW | DW | DW | FL | DW | DW              | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW |   |
| PEDESTRIAN CROSSING BUSSE HWY. ON EAST AND WEST SIDES OF DEE RD.     | DW | DW | DW | DW | DW | DW | DW | DW | DW              | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW |   |
| PEDESTRIAN CROSSING OAKTON ST. ON EAST AND WEST SIDES OF DEE RD.     | DW | DW | DW | DW | FL | DW | FL | DW | DW              | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW | DW |   |
| PEDESTRIAN CROSSING DEE RD. ON NORTH AND SOUTH SIDES OF OAKTON ST    | DW | DW | DW | DW | DW | DW | DW | DW | DW              | DW | DW | DW | DW | FL | DW | FL | DW | DW | DW | DW | DW | DW | DW |   |

TS 3280  
PARK RIDGE

|  |                             |                   |           |
|--|-----------------------------|-------------------|-----------|
| FILE NAME =<br>D160XB2-shr-TS3280CS2.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                                  | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|  | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|  |                             | DATE - 03/09/2014 | REVISED - |

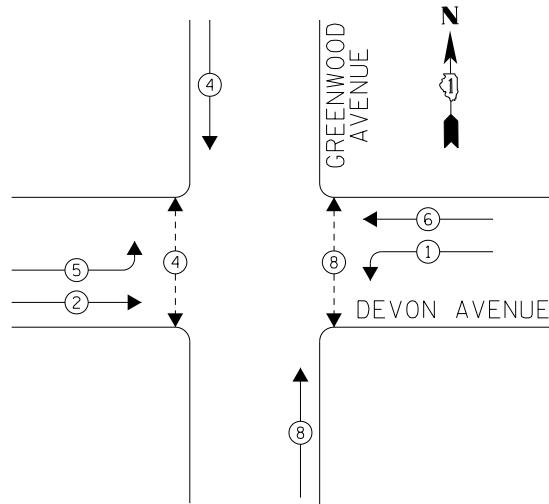
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|   |       |           |              |
|---|-------|-----------|--------------|
| BUSSE HIGHWAY AT OAKTON STREET, DEE ROAD<br>DEE ROAD AT OAKTON STREET<br>RAILROAD PREEMPTION AND SCHEDULE OF QUANTITIES |       |           |              |
| SCALE:  | SHEET | OF SHEETS | STA. TO STA. |

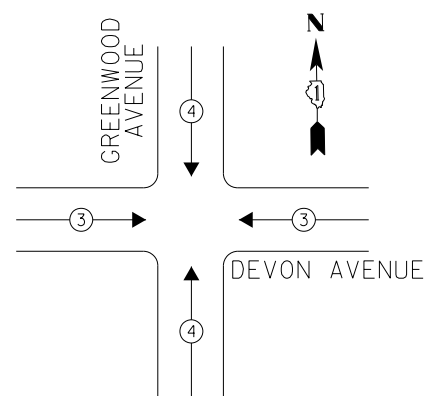
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|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 72        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

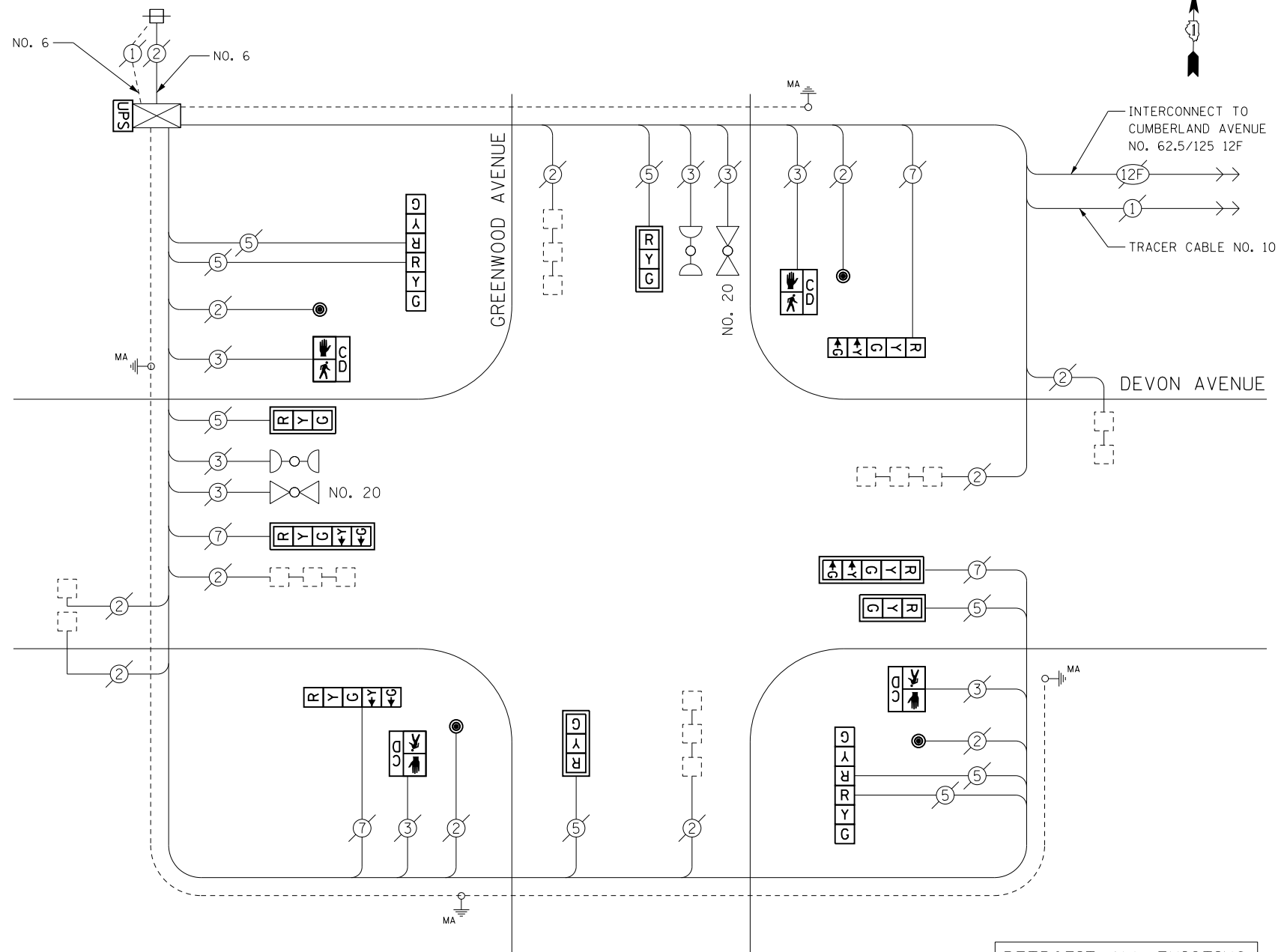


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

- LEGEND
- ◉ DUAL ENTRY PHASE
  - ◊ OVERLAP
  - ◉ PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



CABLE PLAN

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 2        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>456.6</b>  |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS22150.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                              | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                      | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                      |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

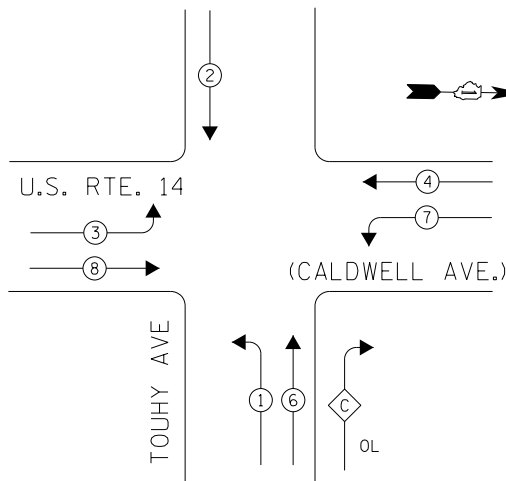
DEVON AVENUE AT GREENWOOD AVENUE - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

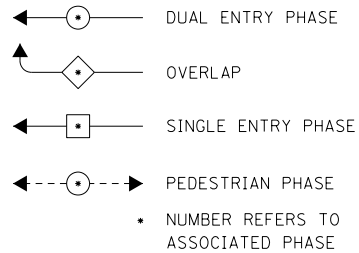
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 73        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 22150  
 PARK RIDGE

EXISTING CONTROLLER SEQUENCE

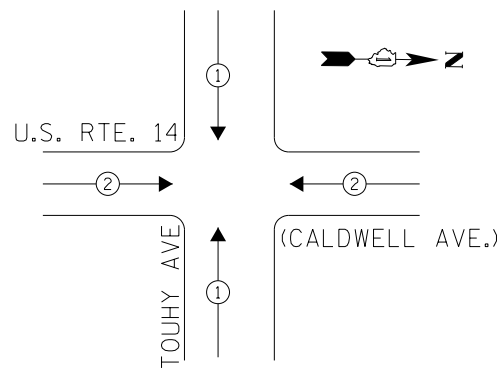


LEGEND



| RIGHT TURN OVERLAP PHASE DESIGNATION |                  |                 |
|--------------------------------------|------------------|-----------------|
| OVERLAP LETTER                       | PERMISSIVE PHASE | PROTECTED PHASE |
| C                                    | = 6              | + 7             |

PHASE DESIGNATION DIAGRAM



REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 7 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 1   | 2   |
| MOVEMENT                     | ↑ ↓ | ← → |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 13        | -               | 17          | 0.50       | 110.5         |
| (YELLOW)       | 13        | -               | 25          | 0.25       | 81.25         |
| (GREEN)        | 13        | -               | 15          | 0.25       | 48.75         |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>384.7</b>  |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

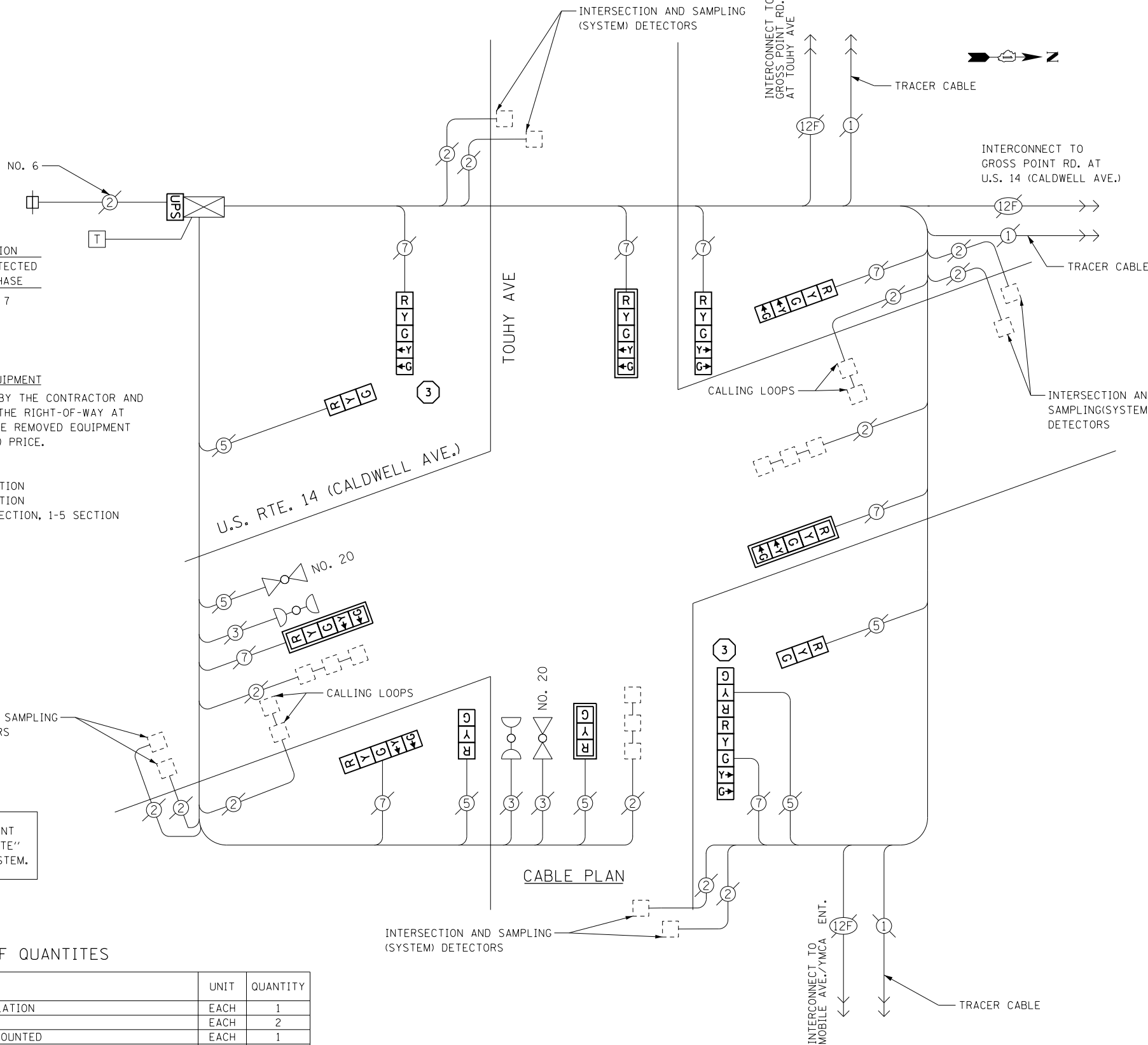
**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                 | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                        | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED               | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED               | EACH | 3        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                        | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET                                  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                            | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                               | EACH | 1        |

INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



CONSTRUCTION NOTES

- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 1305  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS1305.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

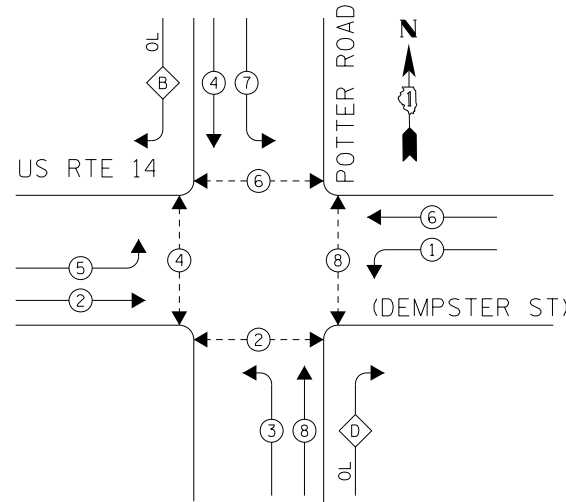
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

U.S. RTE. 14 (CALDWELL AVE.) AND TOUHY AVE - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 74        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE

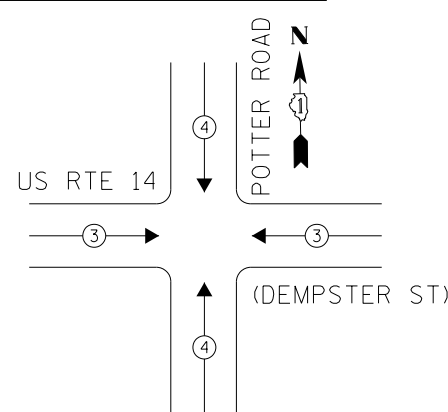


LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

| RIGHT TURN OVERLAP PHASE DESIGNATION |   |                  |                 |
|--------------------------------------|---|------------------|-----------------|
| OVERLAP LETTER                       | = | PERMISSIVE PHASE | PROTECTED PHASE |
| B                                    | = | 4                | + 5             |
| D                                    | = | 8                | + 1             |

PHASE DESIGNATION DIAGRAM



PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 |
| MOVEMENT                     |   |   |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17          | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25          | 0.25       | 87.5          |
| (GREEN)        | 14        | -               | 15          | 0.25       | 52.5          |
| ARROW          | 24        | -               | 12          | 0.10       | 28.8          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>612.8</b>  |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT: TERRI BLECK  
 PHONE: 847-816-5239  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

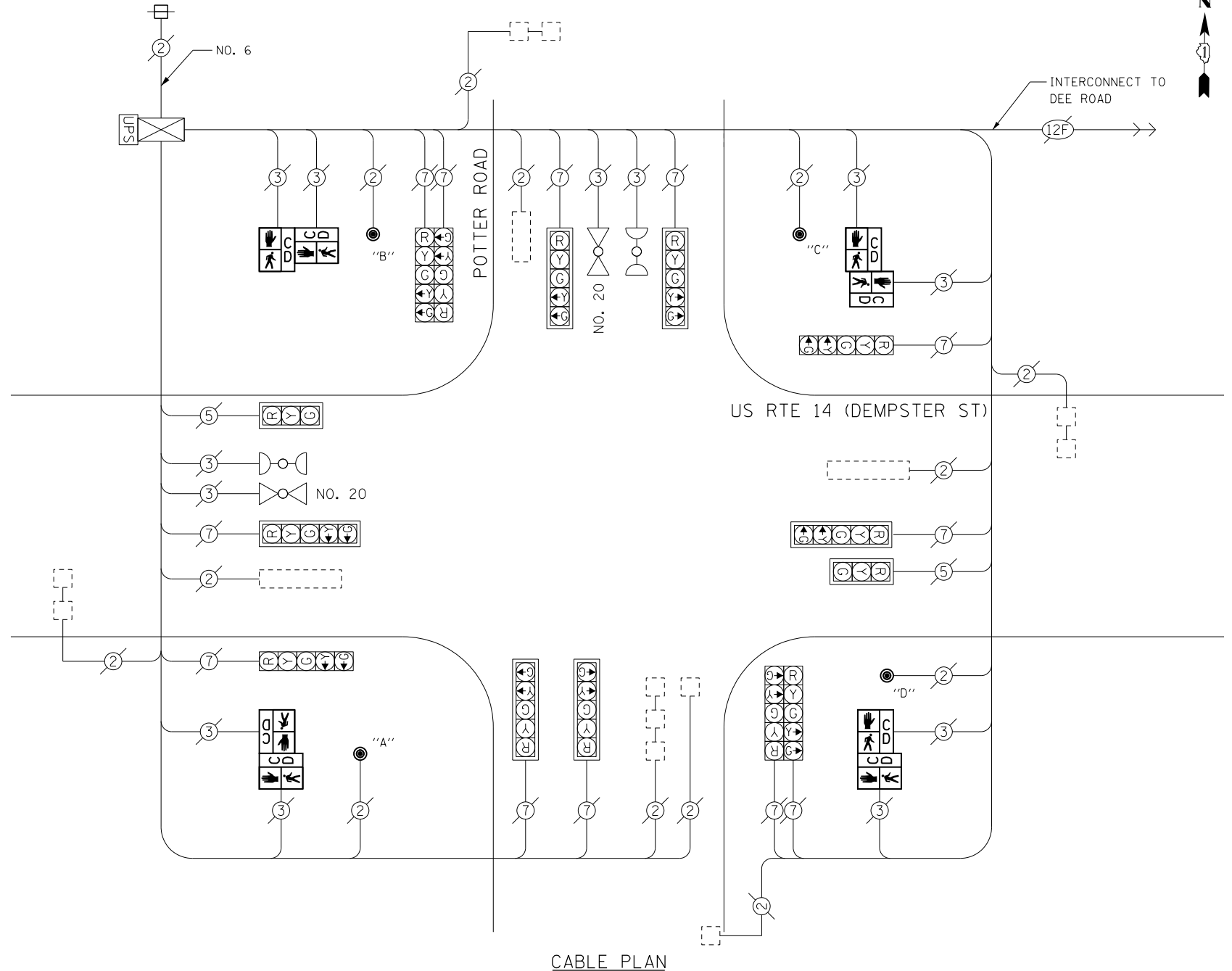
| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 4        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

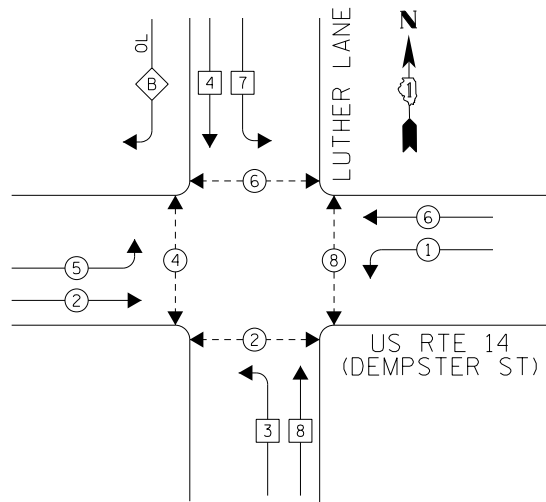
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



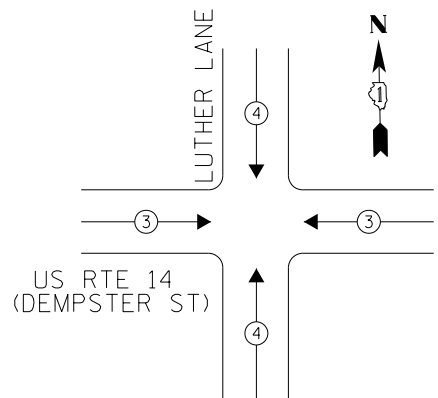
CABLE PLAN

TS 1275  
 PARK RIDGE

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



LEGEND

- ◉ DUAL ENTRY PHASE
- ◻ SINGLE ENTRY PHASE
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

| RIGHT TURN OVERLAP PHASE DESIGNATION |                  |                 |
|--------------------------------------|------------------|-----------------|
| OVERLAP LETTER                       | PERMISSIVE PHASE | PROTECTED PHASE |
| B                                    | = 4              | + 5             |

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PUSHBUTTON NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

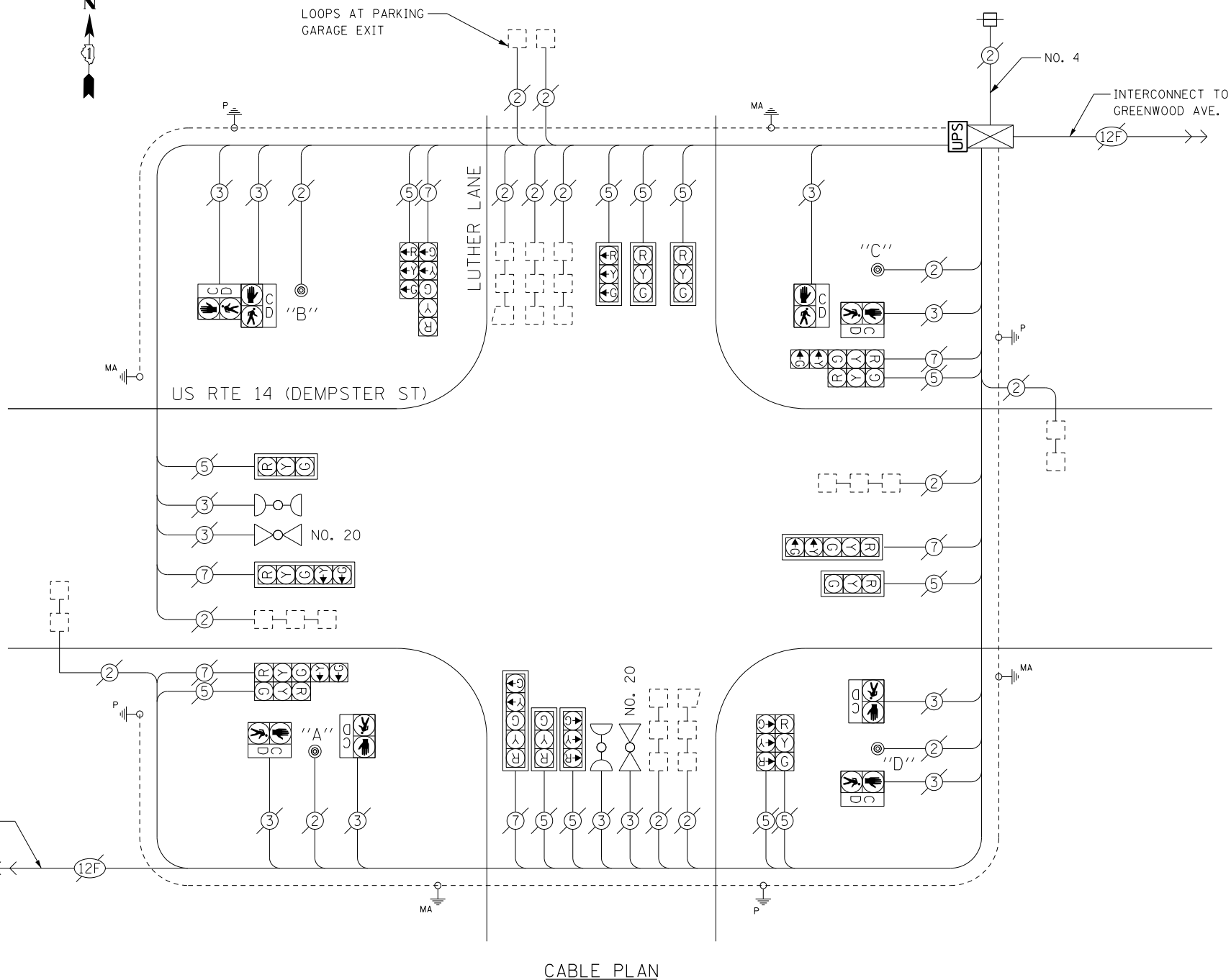
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 18        | -               | 17          | 0.50       | 153.0         |
| (YELLOW)       | 18        | -               | 25          | 0.25       | 112.5         |
| (GREEN)        | 18        | -               | 15          | 0.25       | 67.5          |
| ARROW          | 12        | -               | 12          | 0.10       | 14.4          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 672.4         |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL               | EACH | 1        |



CABLE PLAN

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS1240.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

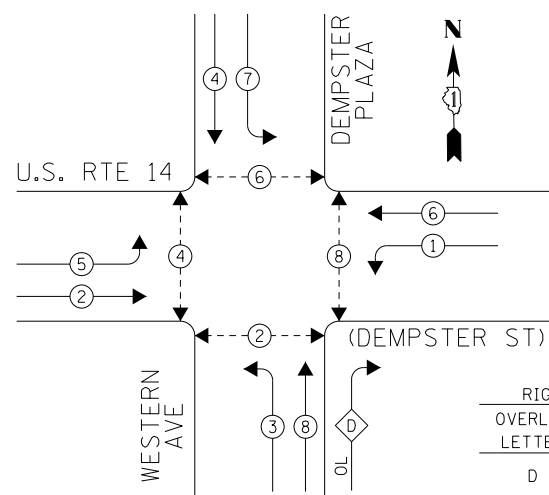
US RTE 14 (DEMPSTER ST) AT LUTHER LANE - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 76        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 1240  
PARK RIDGE

EXISTING CONTROLLER SEQUENCE

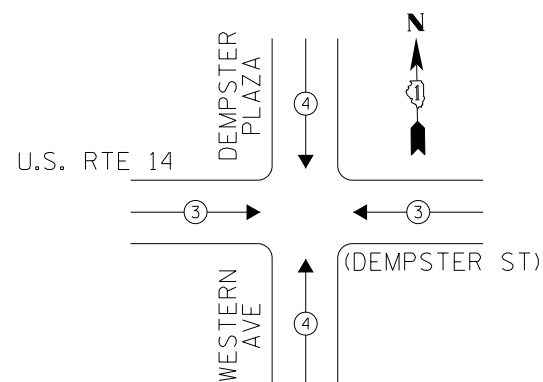


- LEGEND**
- ← ○ → DUAL ENTRY PHASE
  - ← ◇ → OVERLAP
  - ← ○ → PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

**RIGHT TURN OVERLAP PHASE DESIGNATION**

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| D              | = 8              | + 1             |

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

**I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 13        | -               | 17          | 0.50       | 110.5         |
| (YELLOW)       | 13        | -               | 25          | 0.25       | 81.25         |
| (GREEN)        | 13        | -               | 15          | 0.25       | 48.75         |
| ARROW          | 20        | -               | 12          | 0.10       | 24.0          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>589.5</b>  |

**BILLED TO: IDOT DISTRICT 1**  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**CONTACT: TERRI BLECK**  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

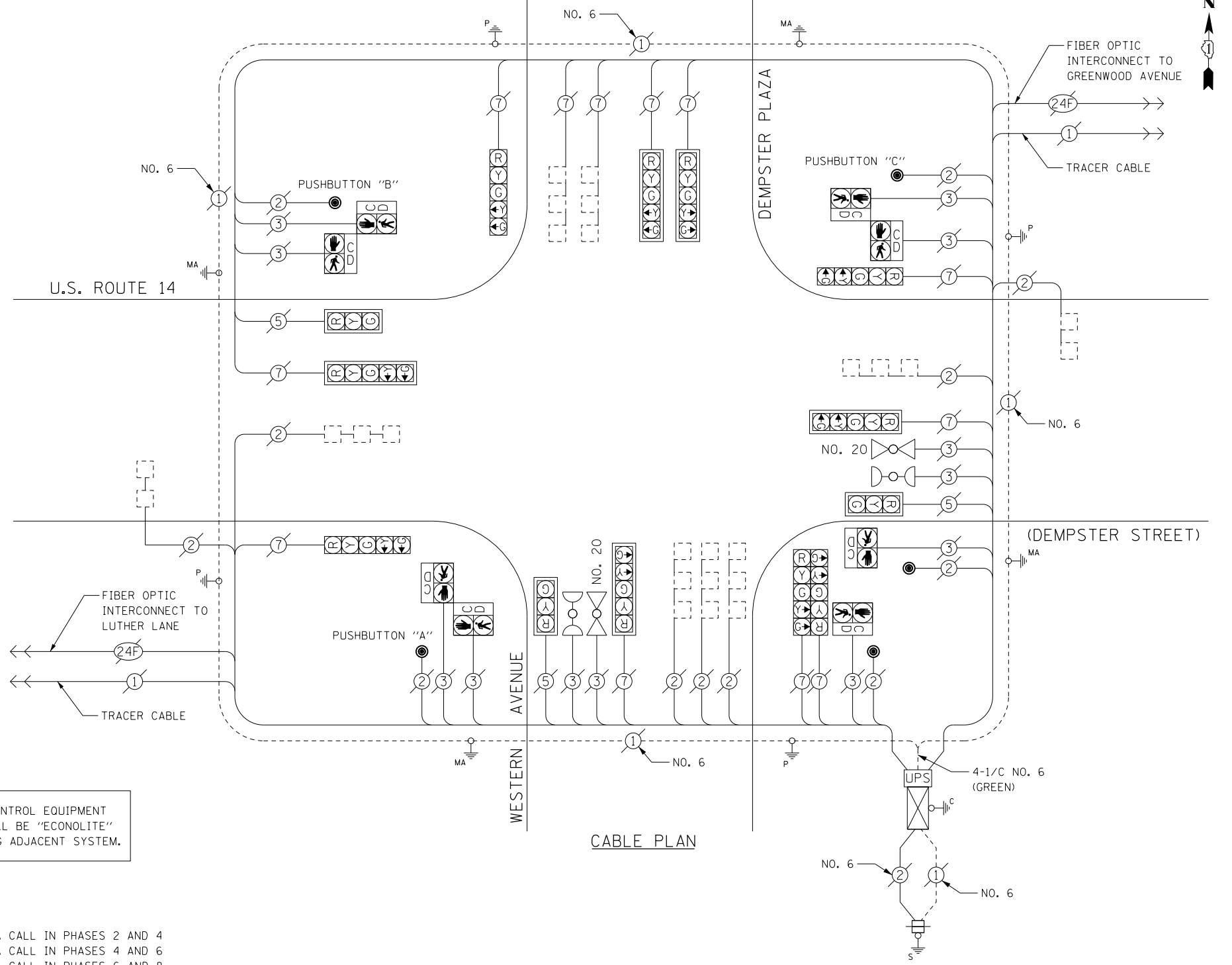
**PUSHBUTTON NOTES:**  
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

**SCHEDULE OF QUANTITIES**

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT            | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                | EACH | 5        |

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**  
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

5 EACH PEDESTRIAN PUSH-BUTTON



**CABLE PLAN**

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-TS1213.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

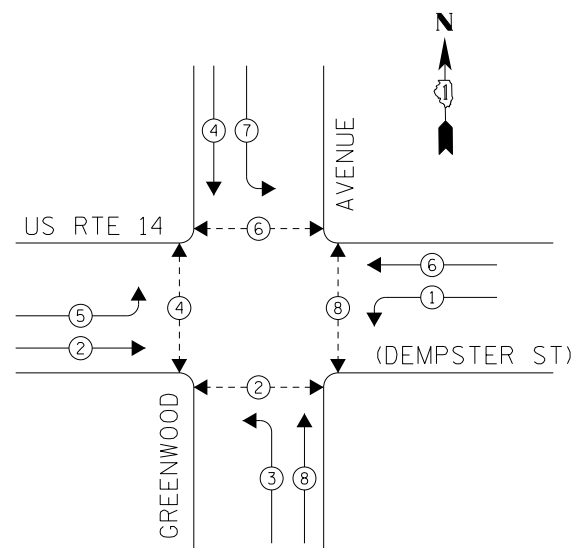
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 (DEMPSTER STREET) AT WESTERN AVENUE - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE**

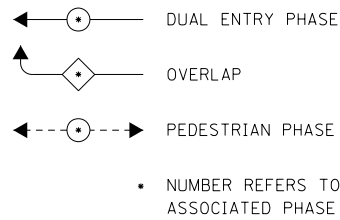
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 77        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 1213  
PARK RIDGE

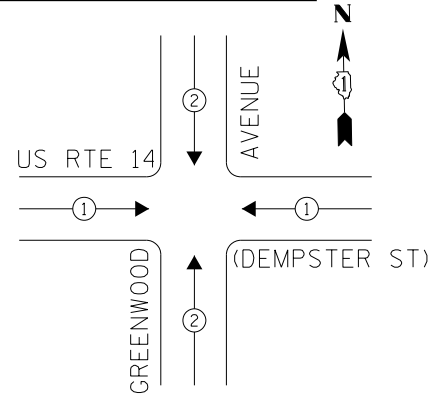
EXISTING CONTROLLER SEQUENCE



LEGEND



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 1   | 2   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

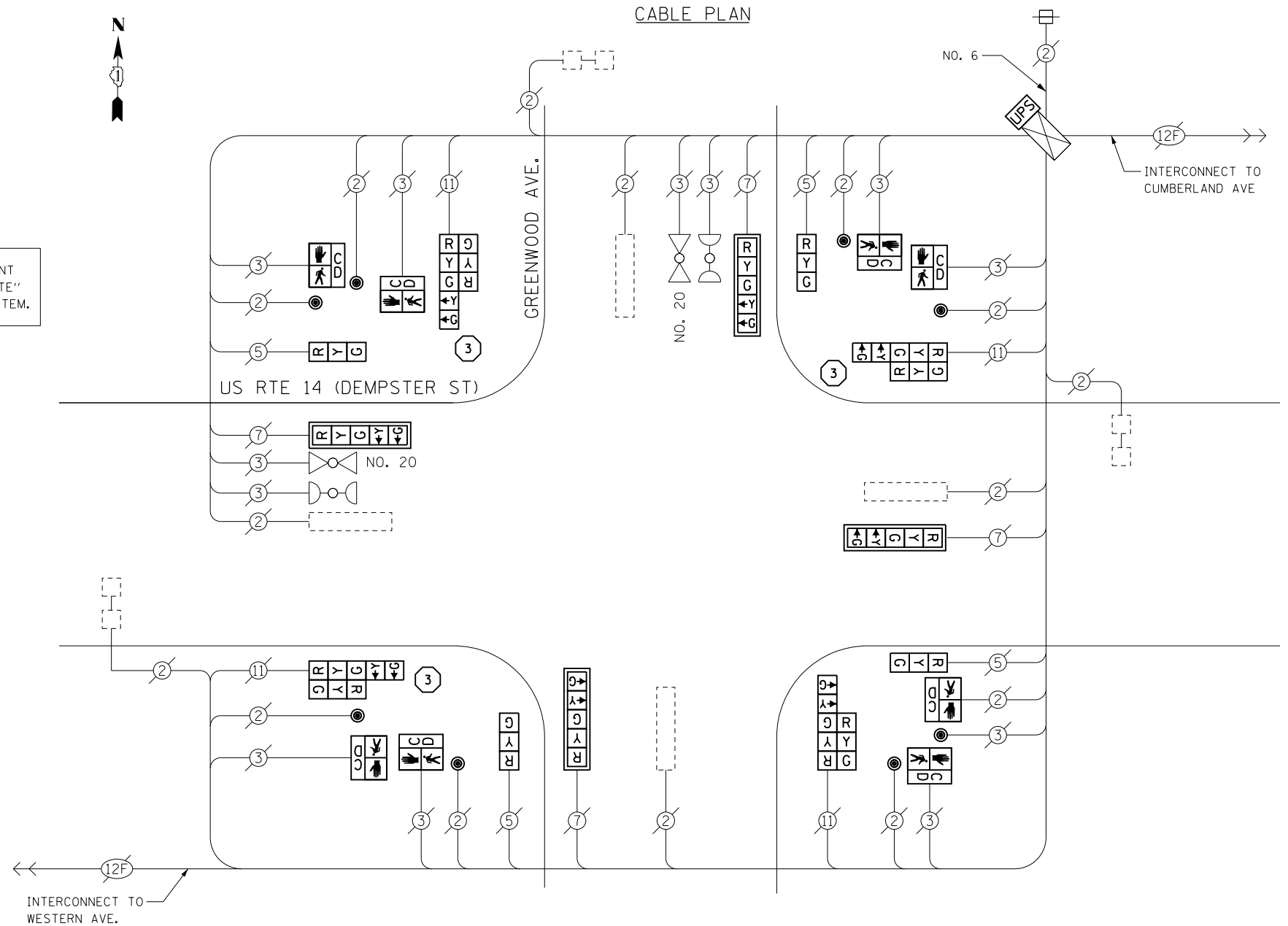
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 16        | -               | 17          | 0.50       | 136.0         |
| (YELLOW)       | 16        | -               | 25          | 0.25       | 100.0         |
| (GREEN)        | 16        | -               | 15          | 0.25       | 60.0          |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | -           | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | -           | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>640.2</b>  |

**BILLED TO: IDOT DISTRICT 1**  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**CONTACT: TERRI BLECK**  
**PHONE: 847-816-5239**  
COMMONWEALTH EDISON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CABLE PLAN



SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 4        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED       | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 8        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 4        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 8        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH TRAFFIC SIGNAL POST
- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON

CONSTRUCTION NOTES

- 3 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

TS 1210  
PARK RIDGE

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS1210.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

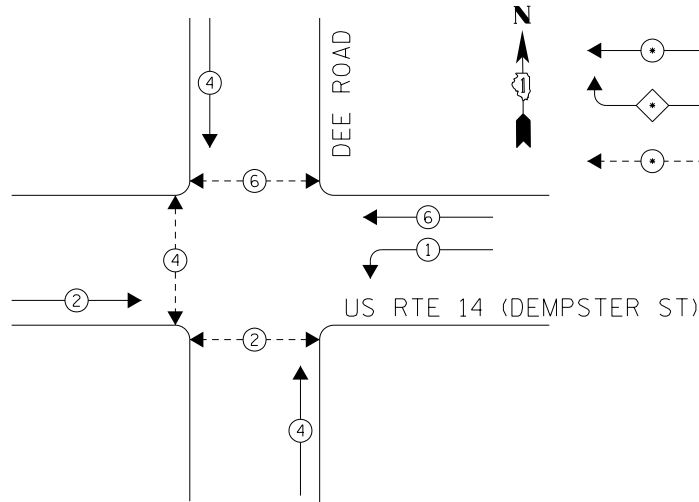
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US RTE 14 (DEMPSTER ST) AT GREENWOOD AVE. - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

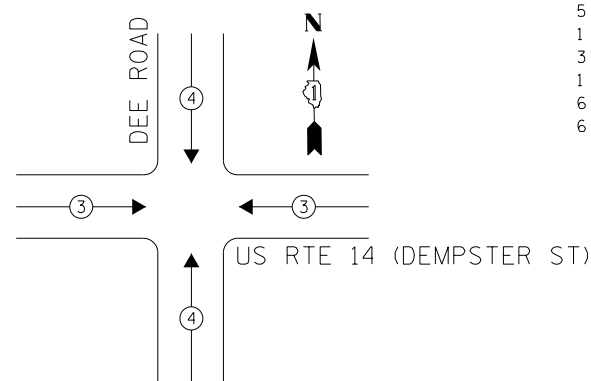
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 78        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

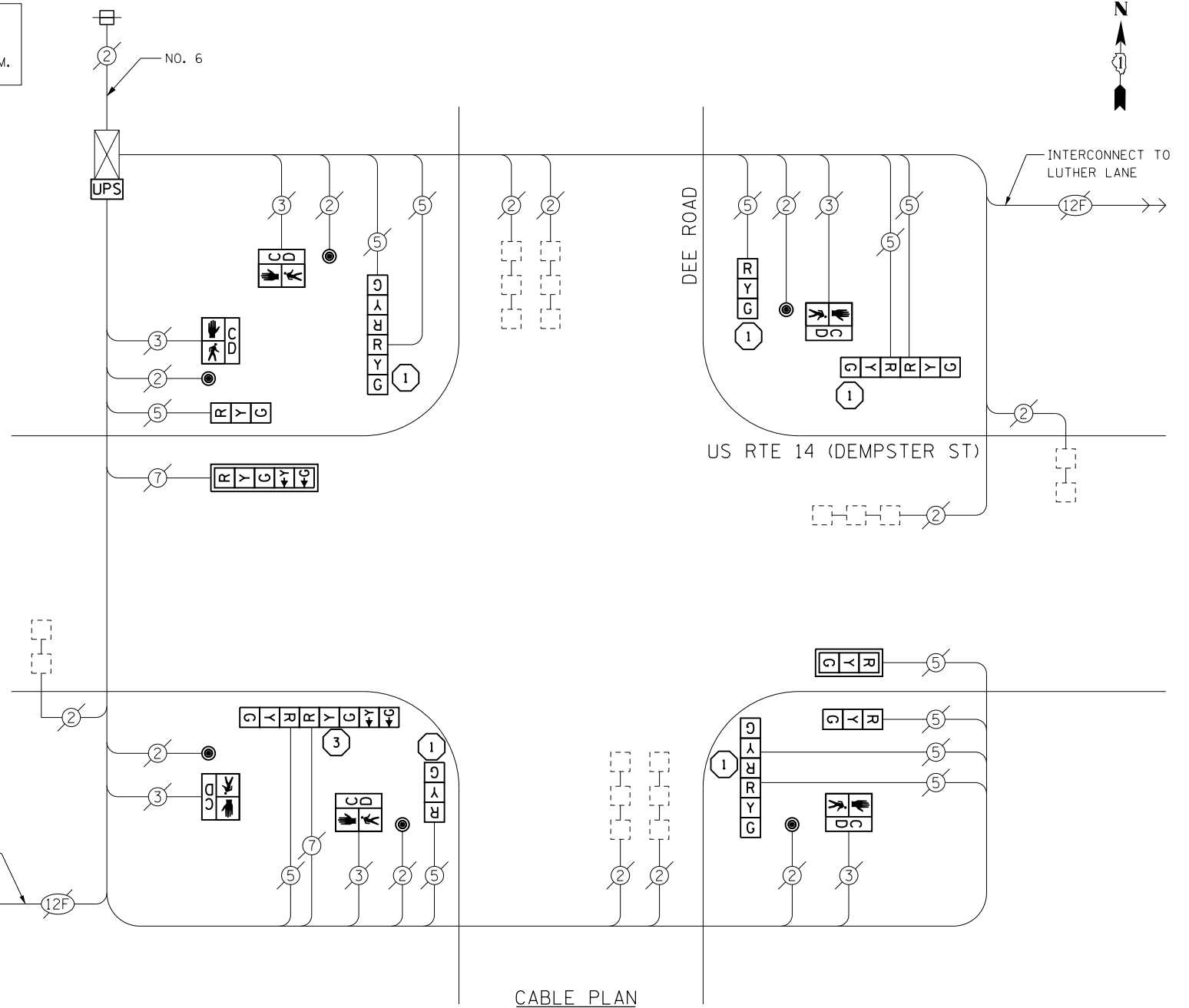
- LEGEND**
- ◉ DUAL ENTRY PHASE
  - ◊ PEDESTRIAN PHASE
  - ◉ OVERLAP
  - NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH TRAFFIC SIGNAL POST
- 5 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 3 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON



CABLE PLAN

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.                              | EACH | 5        |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 3        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |

CONSTRUCTION NOTES

- ① THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.
- ③ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 14        | -               | 17          | 0.50       | 119.0         |
| (YELLOW)       | 14        | -               | 25          | 0.25       | 87.5          |
| (GREEN)        | 14        | -               | 15          | 0.25       | 52.5          |
| ARROW          | 4         | -               | 12          | 0.10       | 4.8           |
| PED. SIGNAL    | 6         | -               | 25          | 1.00       | 150.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | 150             | -           | 1.00       | 150.0         |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | 250             | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>688.8</b>  |

**ENERGY COSTS-** BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

**ENERGY SUPPLY-** CONTACT: TERRI BLECK  
PHONE: 847-816-5239  
COMMONWEALTH EDISON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS1205.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

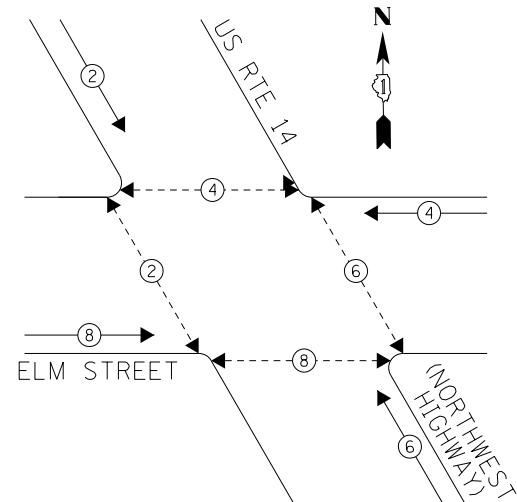
US RTE 14 (DEMPSTER ST) AT DEE ROAD - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

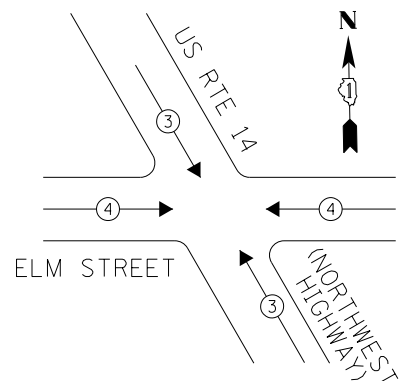
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 79        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 1205  
PARK RIDGE

EXISTING CONTROLLER SEQUENCE



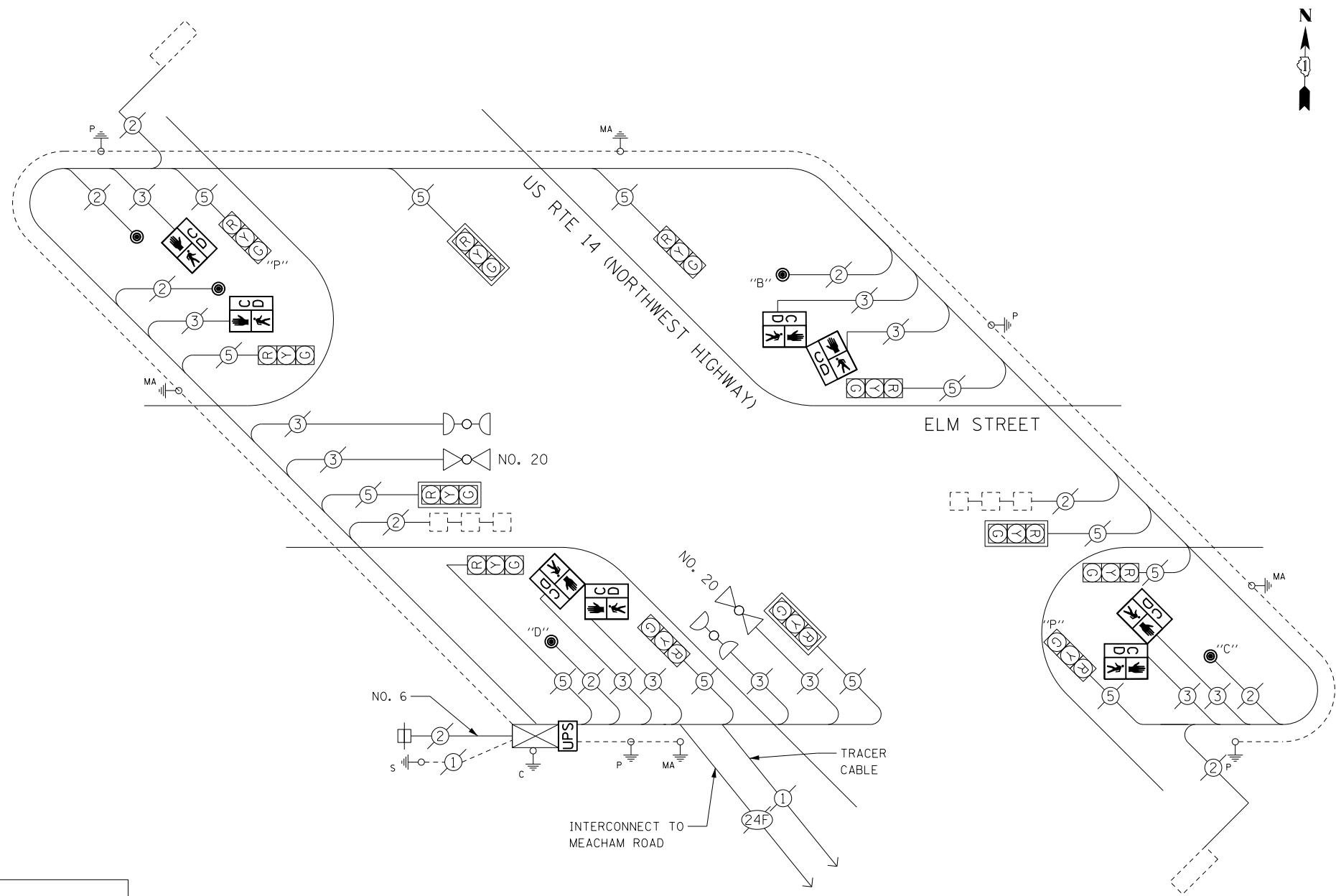
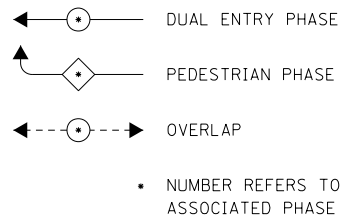
PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 |
| MOVEMENT                     |   |   |

LEGEND



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PUSHBUTTON NOTES:

- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 3        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 5        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 3 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 5 EACH PEDESTRIAN PUSH-BUTTON

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17  | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25  | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15  | 0.25       | 45.0          |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | 8         | -               | 25  | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25  | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | 25  | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |     |            | <b>547.0</b>  |

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-

CONTACT PHONE: TERRI BLECK  
847-816-5239  
COMMONWEALTH EDISON

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS11695.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                              | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                      | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                      |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US RTE 14 (NORTHWEST HWY) AND ELM STREET - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

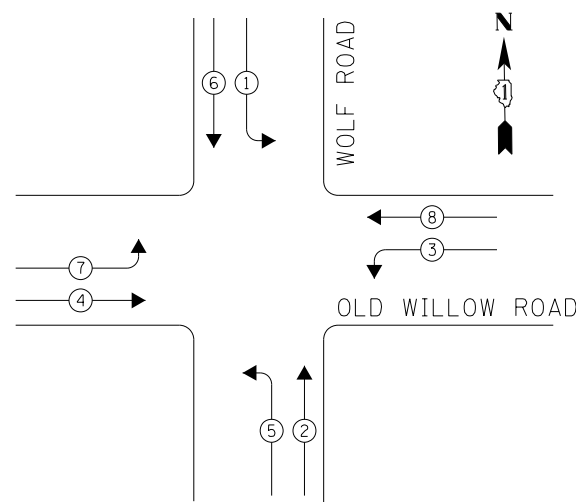
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 80        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

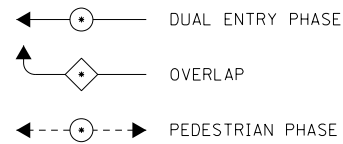
TS 11695  
PARK RIDGE



EXISTING CONTROLLER SEQUENCE



LEGEND

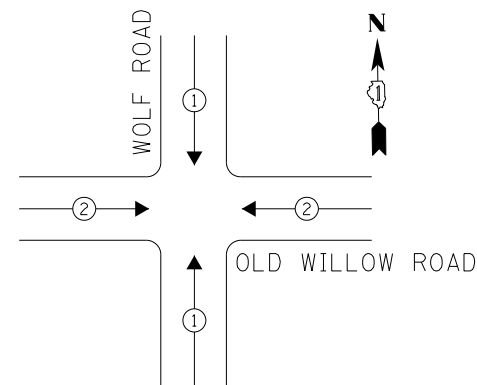


• NUMBER REFERS TO ASSOCIATED PHASE

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 1   | 2   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

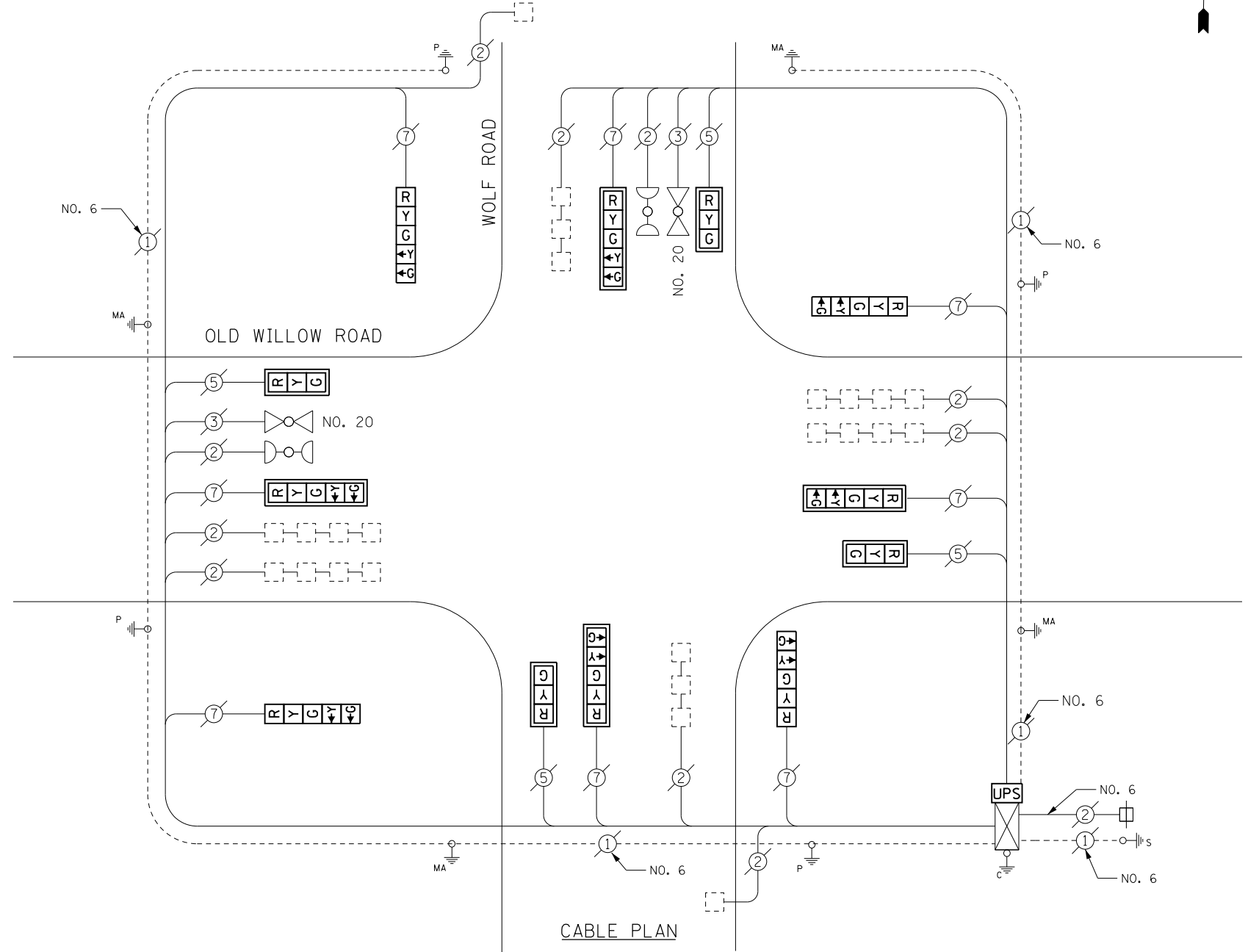
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 366.2         |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT DAVE SCHACHT**  
 PHONE 630-437-2129  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION             | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                    | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET                              | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                           | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT  | EACH | 4        |



CABLE PLAN

TS 5950  
 PROSPECT HEIGHTS

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-155950.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

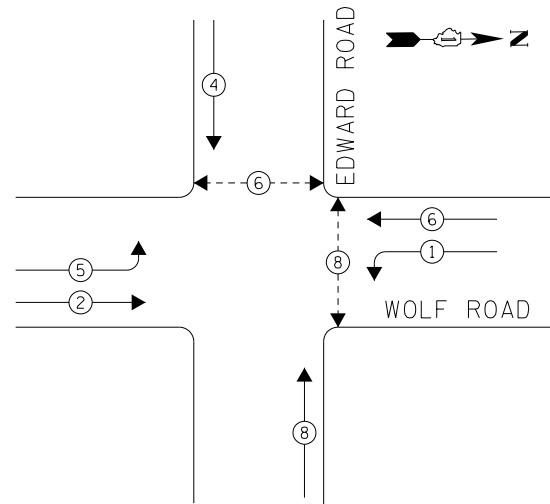
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WOLF ROAD AT OLD WILLOW ROAD - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 81        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

EXISTING CONTROLLER SEQUENCE



LEGEND

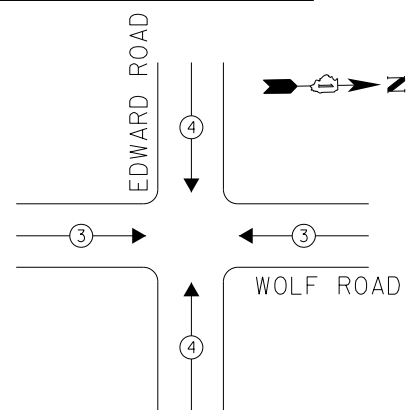
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

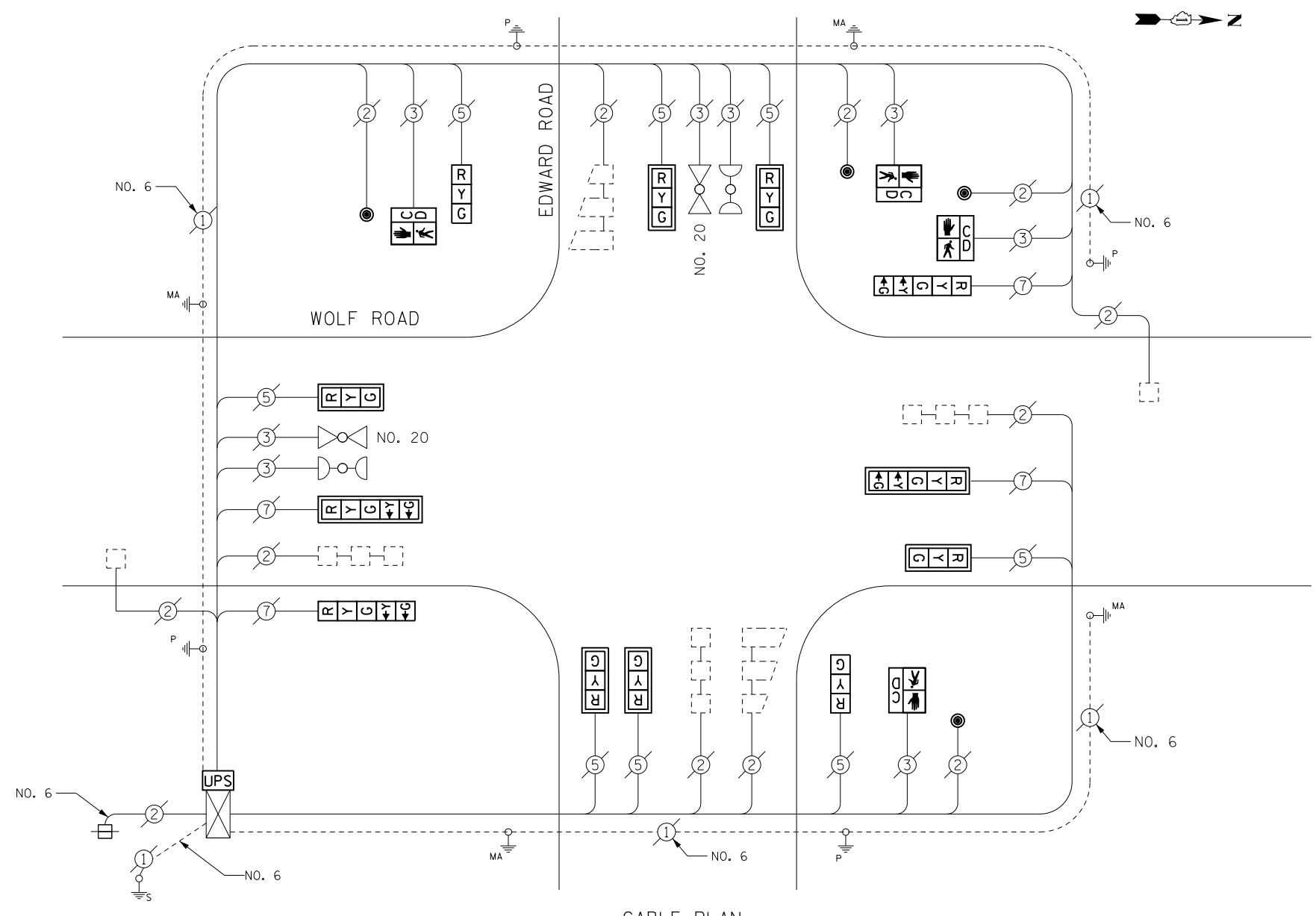
| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 4         | -               | 25          | 1.00       | 100.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>456.6</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT DAVE SCHACHT**  
PHONE **630-437-2129**  
COMMONWEALTH EDISON



CABLE PLAN

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              | EACH | 2        |
| PEDESTRIAN PUSH-BUTTON  | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 6        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT           | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT            | EACH | 2        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-155944.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WOLF ROAD AND EDWARD ROAD - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

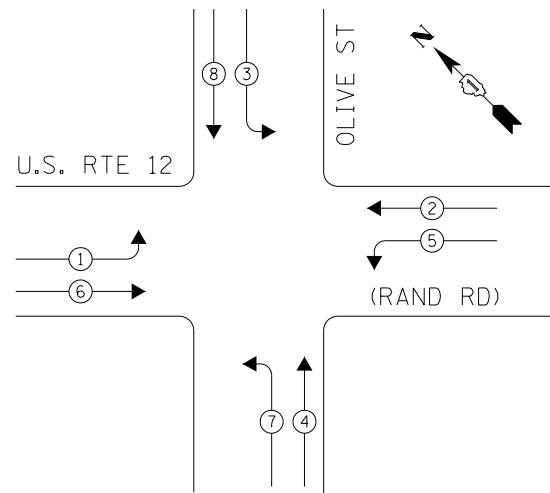
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 82        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 5944  
PROSPECT HEIGHTS

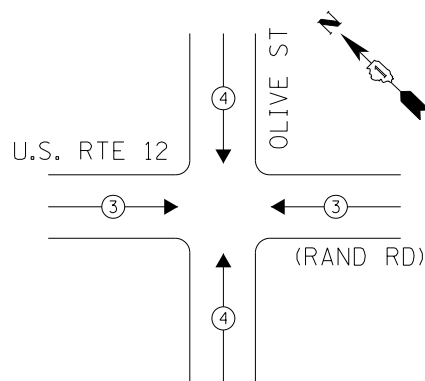
SCALE: SHEET OF SHEETS STA. TO STA.



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ← → | ↓ ↑ |

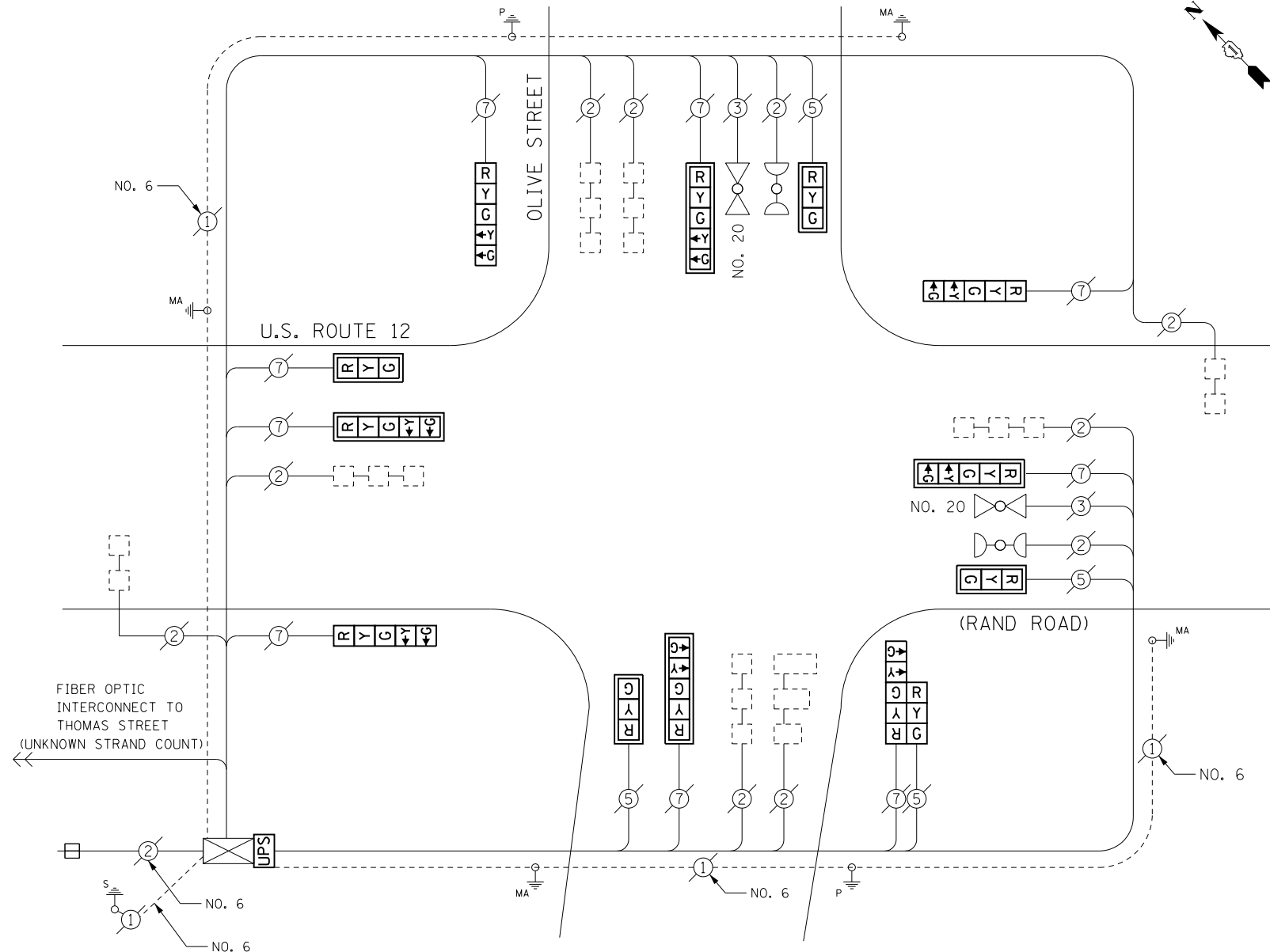
LEGEND

- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



CABLE PLAN

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 13        | -               | 17          | 0.50       | 110.5         |
| (YELLOW)       | 13        | -               | 25          | 0.25       | 81.25         |
| (GREEN)        | 13        | -               | 15          | 0.25       | 48.75         |
| ARROW          | 16        | -               | 12          | 0.10       | 19.2          |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| <b>TOTAL =</b> |           |                 |             |            | <b>384.7</b>  |

ENERGY COSTS- **BILLED TO: IDOT DISTRICT 1**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- **CONTACT DAVE SCHACHT**  
 PHONE **630-437-2129**  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 2        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 4        |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 3        |

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS419.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 12 (RAND ROAD) AND OLIVE STREET - CABLE PLAN SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

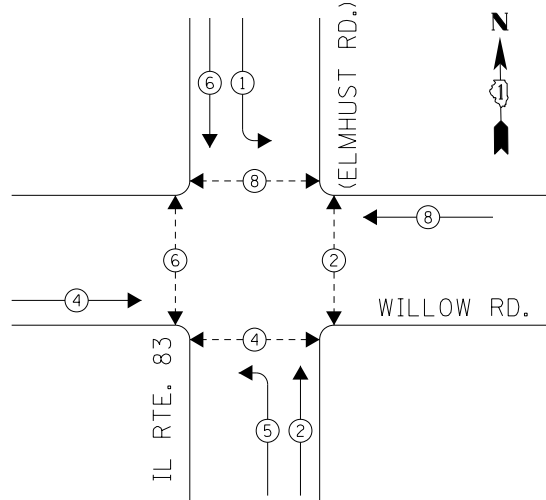
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 83        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

TS 419 PROSPECT HEIGHTS



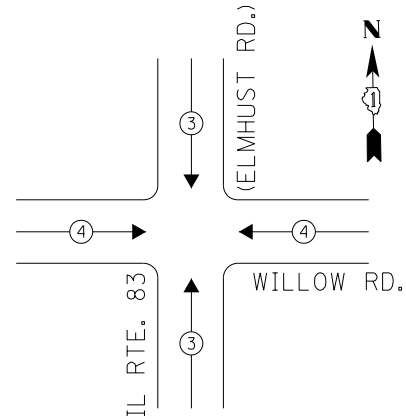
EXISTING CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |     |     |
|------------------------------|-----|-----|
| EMERGENCY VEHICLE PREEMPTOR  | 3   | 4   |
| MOVEMENT                     | ↓ ↑ | ← → |

I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 12        | -               | 17          | 0.50       | 102.0         |
| (YELLOW)       | 12        | -               | 25          | 0.25       | 75.0          |
| (GREEN)        | 12        | -               | 15          | 0.25       | 45.0          |
| ARROW          | 8         | -               | 12          | 0.10       | 9.6           |
| PED. SIGNAL    | 8         | -               | 25          | 1.00       | 200.0         |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 556.6         |

ENERGY COSTS-  
BILLED TO: IDOT DISTRICT 1  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY-  
CONTACT: DAVE SCHACHT  
PHONE: 630-437-2129  
COMMONWEALTH EDISON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

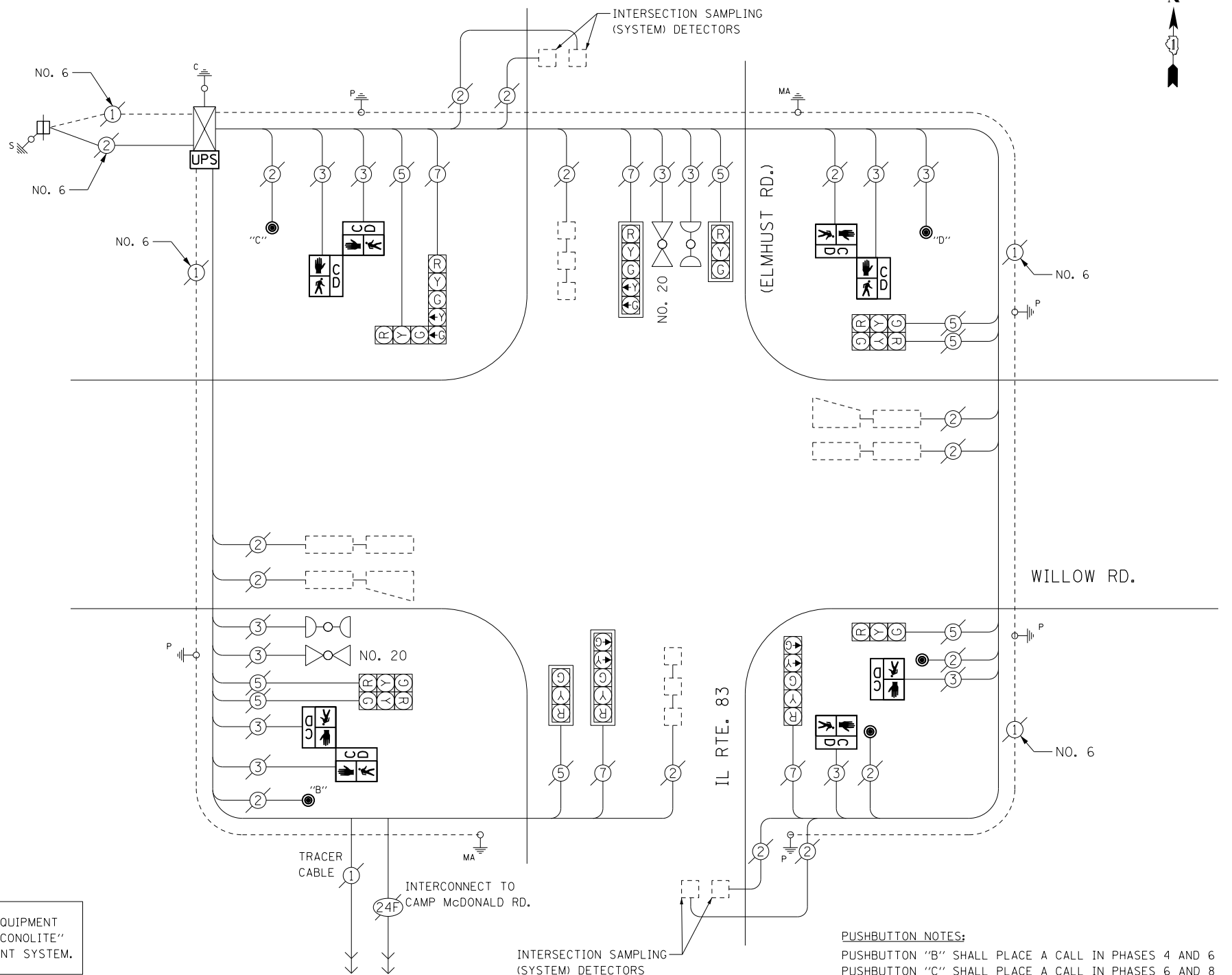
SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 3        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTIBLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 5        |

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 3 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 5 EACH PEDESTRIAN PUSH-BUTTON



CABLE PLAN

PUSHBUTTON NOTES:

PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D:\60X82-sht-TS3540.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                             | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                     | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                     |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 (ELMHUST ROAD) AND WILLOW ROAD - CABLE PLAN  
SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 84        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

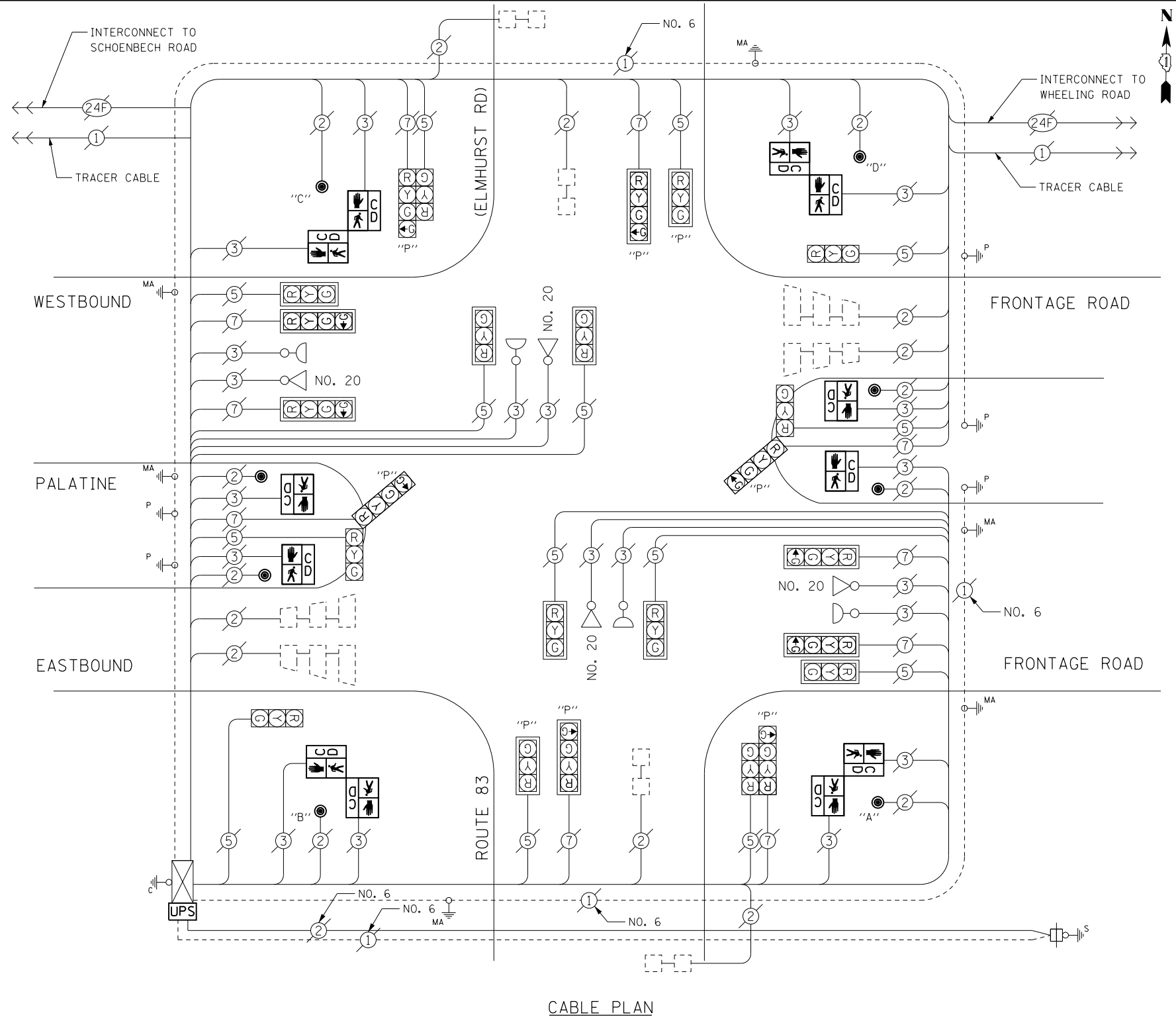
TS 3540  
PROSPECT HEIGHTS

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



CABLE PLAN

**I. D. O. T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS**

| TYPE           | NO. LAMPS | WATTAGE<br>INCAND. | WATTAGE<br>LED | %OPERATION | TOTAL<br>WATTAGE |
|----------------|-----------|--------------------|----------------|------------|------------------|
| SIGNAL (RED)   | 24        | -                  | 17             | 0.50       | 204.0            |
| (YELLOW)       | 24        | -                  | 25             | 0.25       | 150.0            |
| (GREEN)        | 34        | -                  | 15             | 0.25       | 127.5            |
| ARROW          | -         | -                  | 12             | 0.10       | -                |
| PED. SIGNAL    | 12        | -                  | 25             | 1.00       | 300.0            |
| CONTROLLER     | 1         | 100                | -              | 1.00       | 100.0            |
| ILLUM. SIGN    | -         | -                  | 25             | 0.50       | -                |
| VIDEO SYSTEM   | -         | -                  | -              | 1.00       | -                |
| BATTERY BACKUP | 1         | 25                 | -              | 1.00       | 25.0             |
| LUMINAIRE      | -         | -                  | -              | 0.50       | -                |
| FLASHER        | -         | -                  | 25             | 0.50       | -                |
| <b>TOTAL =</b> |           |                    |                |            | <b>906.5</b>     |

**SCHEDULE OF QUANTITIES**

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       | EACH | 1        |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                     | EACH | 1        |
| PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      | EACH | 8        |

**PUSHBUTTON NOTES:**

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

**ENERGY COSTS-** **BILLED TO: IDOT DISTRICT 1**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, IL 60196-1096**

**ENERGY SUPPLY-** **CONTACT DAVE SCHACHT**  
**PHONE 630-437-2129**  
**COMMONWEALTH EDISON**

TS 3485  
PROSPECT HEIGHTS



SEQUENCE OF OPERATION

Table with columns for MOVEMENT, PHASE (1-4), INTERVAL (1-16B), CHANGE TO, and various signal states (G, Y, R, etc.) for Illinois Route 83 at Eastbound and Westbound Frontage Roads.

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

Table detailing emergency vehicle preemption sequence with columns for change from normal sequence, interval numbers (1, 5, 9, 13), and specific signal states (1A-1M, 1N-1S, etc.).

TS 3485 PROSPECT HEIGHTS

Metadata table with columns: FILE NAME, USER NAME, DESIGNED, DRAWN, PLOT SCALE, PLOT DATE, REVISIONS (REVISED, REVISED, REVISED).

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

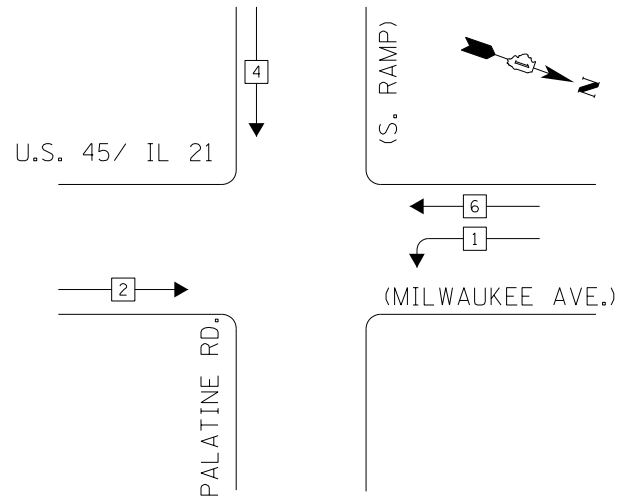
IL ROUTE 83 (ELMHURST RD) AT PALATINE ROAD- SEQUENCE OF OPERATION & EVP SEQUENCE OF OPERATION

Table with columns: F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO., ILLINOIS FED. AID PROJECT.

SCALE: SHEET OF SHEETS STA. TO STA.



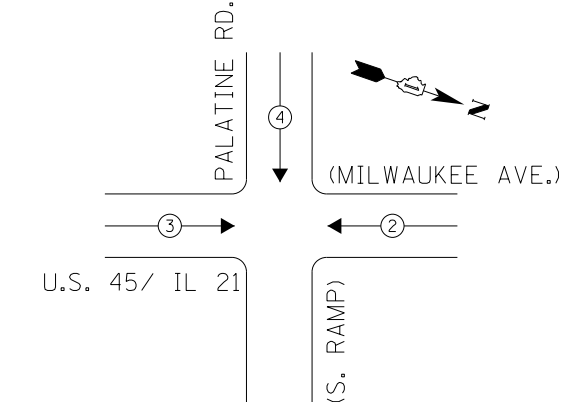
EXISTING CONTROLLER SEQUENCE



LEGEND

- ← ● → DUAL ENTRY PHASE
- ← ◊ → OVERLAP
- ← ◻ → SINGLE ENTRY PHASE
- ← ● → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

| EMERGENCY VEHICLE PREEMPTORS |   |   |   |
|------------------------------|---|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 2 | 3 | 4 |
|                              | ← | → | ↓ |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

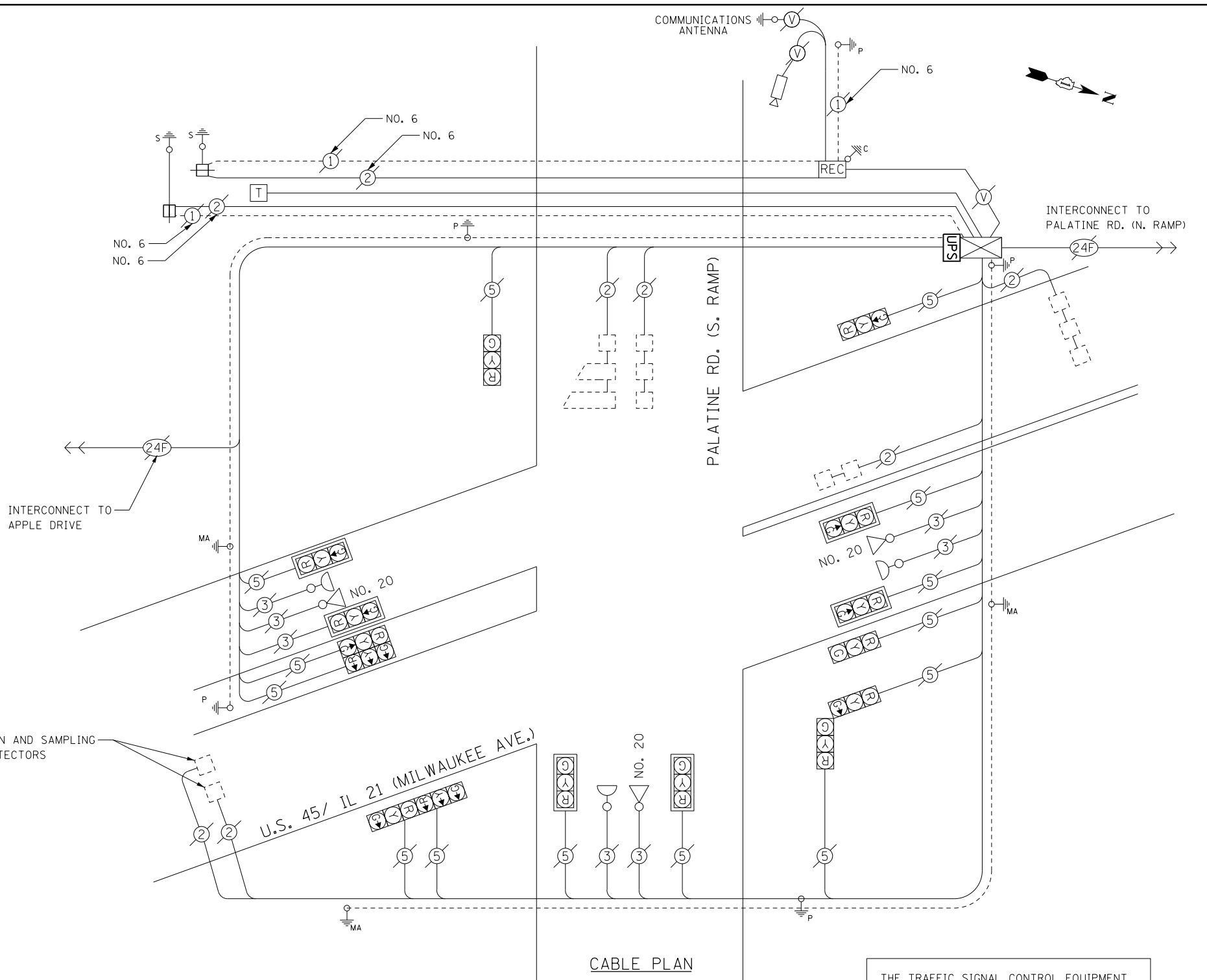
| TYPE           | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-------------|------------|---------------|
| SIGNAL (RED)   | 15        | -               | 17          | 0.50       | 127.5         |
| (YELLOW)       | 15        | -               | 25          | 0.25       | 93.75         |
| (GREEN)        | 15        | -               | 15          | 0.25       | 56.25         |
| ARROW          | -         | -               | 12          | 0.10       | -             |
| PED. SIGNAL    | -         | -               | 25          | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -           | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25          | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -           | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -           | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -           | 0.50       | -             |
| FLASHER        | -         | -               | 25          | 0.50       | -             |
| TOTAL =        |           |                 |             |            | 402.5         |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT DAVE SCHACHT  
 PHONE 630-437-2129  
 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM        | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET                  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL               | EACH | 1        |



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160XB2-sht-TS1745.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 48.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

U.S. 45/IL 21. (MILWAUKEE AVE) & PALATINE RD (S. RAMP) - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

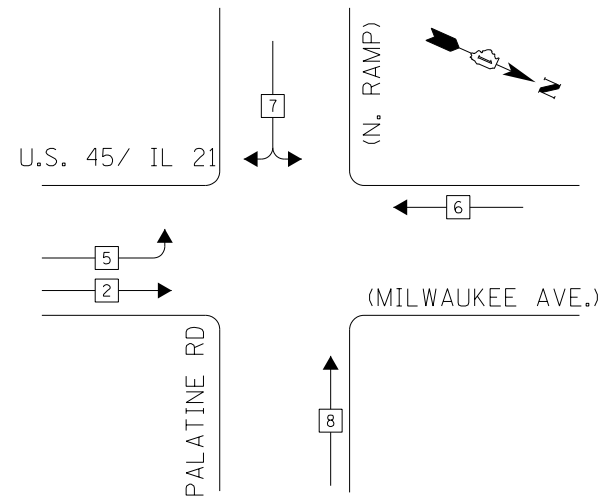
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTÉ.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 87        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

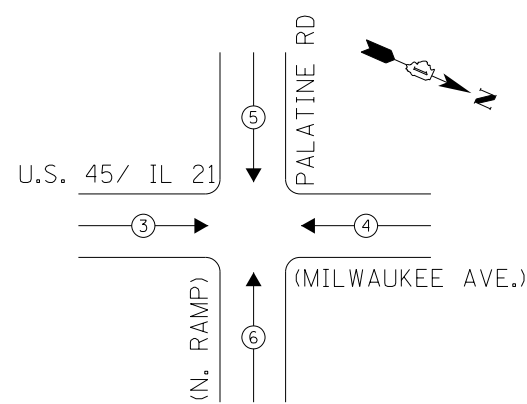
TS 1745 PROSPECT HEIGHTS



EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

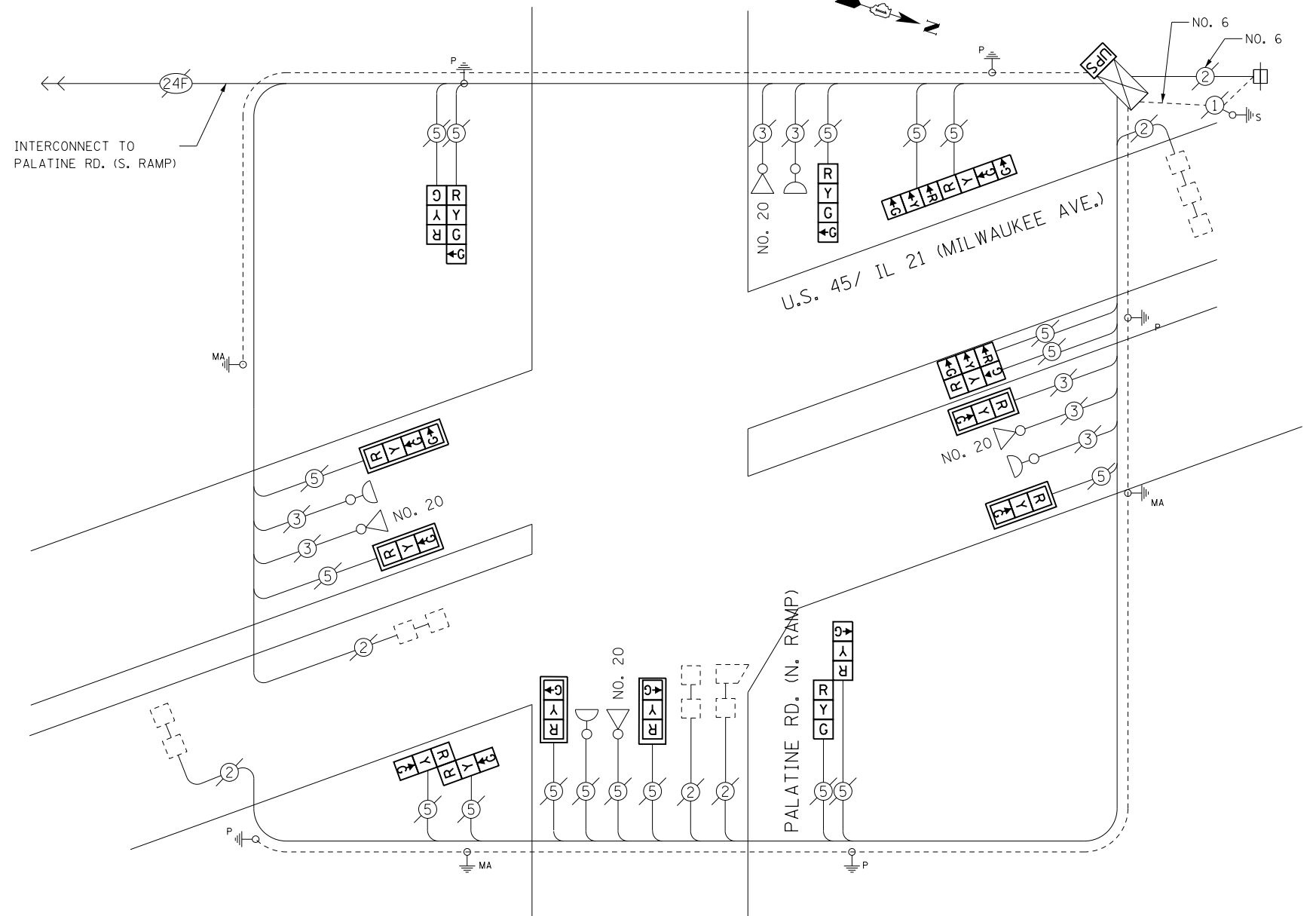
| EMERGENCY VEHICLE PREEMPTORS |   |   |   |   |
|------------------------------|---|---|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 | 5 | 6 |
|                              | → | ← | ↓ | ↑ |

- LEGEND
- DUAL ENTRY PHASE
  - OVERLAP
  - PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE
  - SINGLE ENTRY PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL BACKPLATES AS DIRECTED BY THE ENGINEER FOR MAST ARM MOUNTED TRAFFIC SIGNALS TO BE RETROFIT WITH LED.



CABLE PLAN

SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                           | EACH | 1        |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                                  | EACH | 6        |
| MODIFY EXISTING CONTROLLER CABINET  | EACH | 1        |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH | 1        |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT | EACH | 2        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 5        |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 3        |
| SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT                | EACH | 1        |
| SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT               | EACH | 1        |

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE           | NO. LAMPS | WATTAGE INCAND. | LED | %OPERATION | TOTAL WATTAGE |
|----------------|-----------|-----------------|-----|------------|---------------|
| SIGNAL (RED)   | 17        | -               | 17  | 0.50       | 144.5         |
| (YELLOW)       | 17        | -               | 25  | 0.25       | 106.25        |
| (GREEN)        | 19        | -               | 15  | 0.25       | 71.25         |
| ARROW          | -         | -               | 12  | 0.10       | -             |
| PED. SIGNAL    | -         | -               | 25  | 1.00       | -             |
| CONTROLLER     | 1         | 100             | -   | 1.00       | 100.0         |
| ILLUM. SIGN    | -         | -               | 25  | 0.50       | -             |
| VIDEO SYSTEM   | -         | -               | -   | 1.00       | -             |
| BATTERY BACKUP | 1         | 25              | -   | 1.00       | 25.0          |
| LUMINAIRE      | -         | -               | -   | 0.50       | -             |
| FLASHER        | -         | -               | 25  | 0.50       | -             |
| TOTAL =        |           |                 |     |            | 447.0         |

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY- CONTACT DAVE SCHACHT  
 PHONE 630-437-2129  
 COMMONWEALTH EDISON

TS 1740  
 PROSPECT HEIGHTS

|                                    |                             |                   |           |
|------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = D160X82-sht-TS1740.dgn | USER NAME = SJohnson        | DESIGNED - PHL    | REVISED - |
| Default                            | PLOT SCALE = 40.0000' / in. | DRAWN - PHL       | REVISED - |
|                                    | PLOT DATE = 3/21/2014       | CHECKED - BKS     | REVISED - |
|                                    |                             | DATE - 03/09/2014 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

U.S. 45/IL 21. (MILWAUKEE AVE) & PALATINE RD (N. RAMP) - CABLE PLAN  
 SCHEDULE OF QUANTITIES, PHASE DESIG. DIAGRAM & EVP SEQUENCE

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 2014-007TS | COOK   | 88           | 88        |
| CONTRACT NO. 60X82        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |