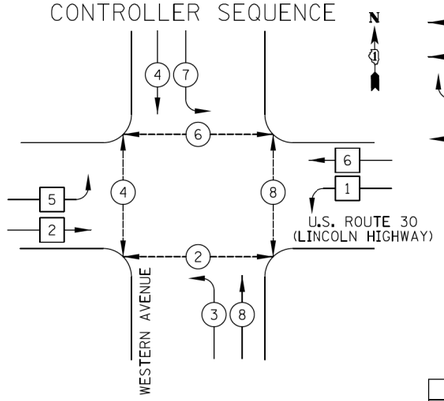
## PROPOSED CONTROLLER SEQUENCE




## LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

## PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE




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

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|---|---|---|---|---|---|
| TYPE | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | % OPERATION | |
| SIGNAL (RED) | 18 | | 17 | 0.50 | 153 |
| (YELLOW) | 18 | | 25 | 0.25 | 113 |
| (GREEN) | 18 | | 15 | 0.25 | 68 |
| ARROW | 8 | | 12 | 0.10 | 10 |
| PED. SIGNAL | 8 | | 25 | 1.00 | 200 |
| CONTROLLER | 1 | | 100 | 1.00 | 100 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| FLASHER | | | | 0.50 | |
| | | | | TOTAL = | 644 |

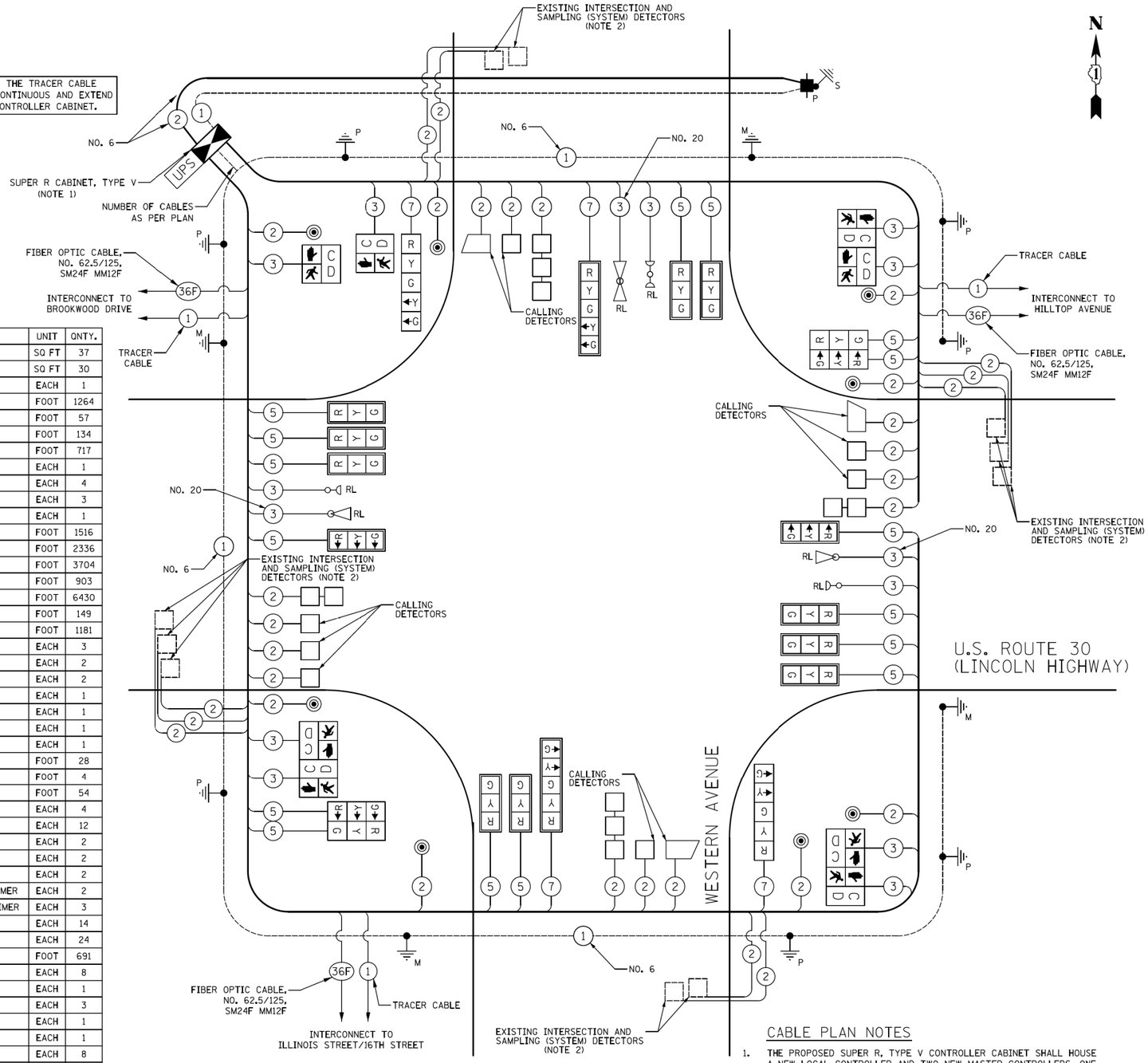
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: EARL WASHINGTON
PHONE: (708) 235-2443
COMPANY: COM ED

## SCHEDULE OF QUANTITIES

| | PAY ITEM | UNIT | QNTY. |
|---|---|---|---|
| | SIGN PANEL - TYPE 1 | SQ FT | 37 |
| | SIGN PANEL - TYPE 2 | SQ FT | 30 |
| | SERVICE INSTALLATION - POLE MOUNTED | EACH | 1 |
| | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 1264 |
| | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. | FOOT | 57 |
| | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 134 |
| | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 717 |
| | HANDHOLE | EACH | 1 |
| | HEAVY-DUTY HANDHOLE | EACH | 4 |
| | DOUBLE HANDHOLE | EACH | 3 |
| | TRANSCEIVER - FIBER OPTIC | EACH | 1 |
| | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1516 |
| | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 2336 |
| | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 3704 |
| | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 903 |
| | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 6430 |
| | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C | FOOT | 149 |
| | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 1181 |
| | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. | EACH | 3 |
| | TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. | EACH | 2 |
| | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| | STEEL MAST ARM ASSEMBLY AND POLE, 44 FT. | EACH | 1 |
| | STEEL MAST ARM ASSEMBLY AND POLE, 46 FT. | EACH | 1 |
| | STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. | EACH | 1 |
| | STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 1 |
| | CONCRETE FOUNDATION, TYPE A | FOOT | 28 |
| | CONCRETE FOUNDATION, TYPE C | FOOT | 4 |
| | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 54 |
| | DRILL EXISTING HANDHOLE | EACH | 4 |
| | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED | EACH | 12 |
| | SIGNAL HEAD, LED, 1-FACE, 5-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 |
| | 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 | 14 |
| | INDUCTIVE LOOP DETECTOR | EACH | 24 |
| | DETECTOR LOOP, TYPE I | FOOT | 691 |
| | PEDESTRIAN PUSH-BUTTON | EACH | 8 |
| | TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| * | RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 3 |
| * | RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT | EACH | 1 |
| | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| | REMOVE EXISTING HANDHOLE | EACH | 8 |
| | REMOVE EXISTING DOUBLE HANDHOLE | EACH | 1 |
| | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 10 |
| * | EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 762 |
| | FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL | EACH | 1 |
| | MASTER CONTROLLER (SPECIAL) | EACH | 2 |
| | UNINTERRUPTABLE POWER SUPPLY SPECIAL | EACH | 1 |
| | TEMPORARY TRAFFIC SIGNAL TIMING | EACH | 1 |

*100% COST TO CITY OF CHICAGO HEIGHTS




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

CABLE PLAN
NOT TO SCALE

## CABLE PLAN NOTES

1. THE PROPOSED SUPER R, TYPE V CONTROLLER CABINET SHALL HOUSE A NEW LOCAL CONTROLLER AND TWO NEW MASTER CONTROLLERS, ONE FOR THE U.S. ROUTE 30 SYSTEM (IDOT SYSTEM #53) AND ONE FOR THE WESTERN AVENUE SYSTEM (IDOT SYSTEM #124).
2. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH INSTALLATION OF NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL THEN BE TESTED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".

CIVILTECH

| | | |
|---|---|---|
| USER NAME = jje | DESIGNED - BRD | REVISED - |
| | DRAWN - JRT | REVISED - |
| PLOT SCALE = 20.0000 ' / in. | CHECKED - JJE | REVISED - |
| PLOT DATE = 9/27/2013 | DATE - 09/27/2013 | REVISED - |

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

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES**
**U.S. ROUTE 30 (LINCOLN HWY.) & WESTERN AVENUE**

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0353 | 23N-2 | COOK | 75 | 42 |
| | | CONTRACT NO. 60T19 | | |
| | | ILLINOIS FED. AID PROJECT | | |