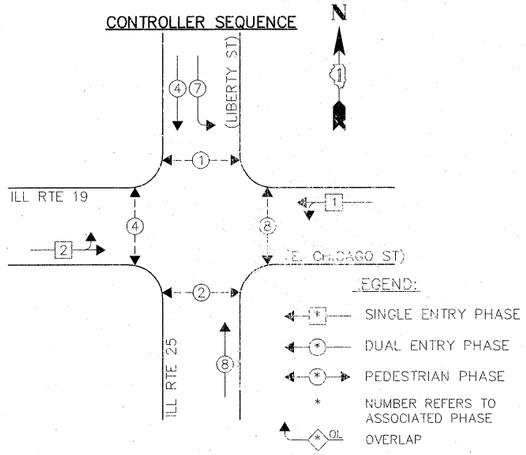
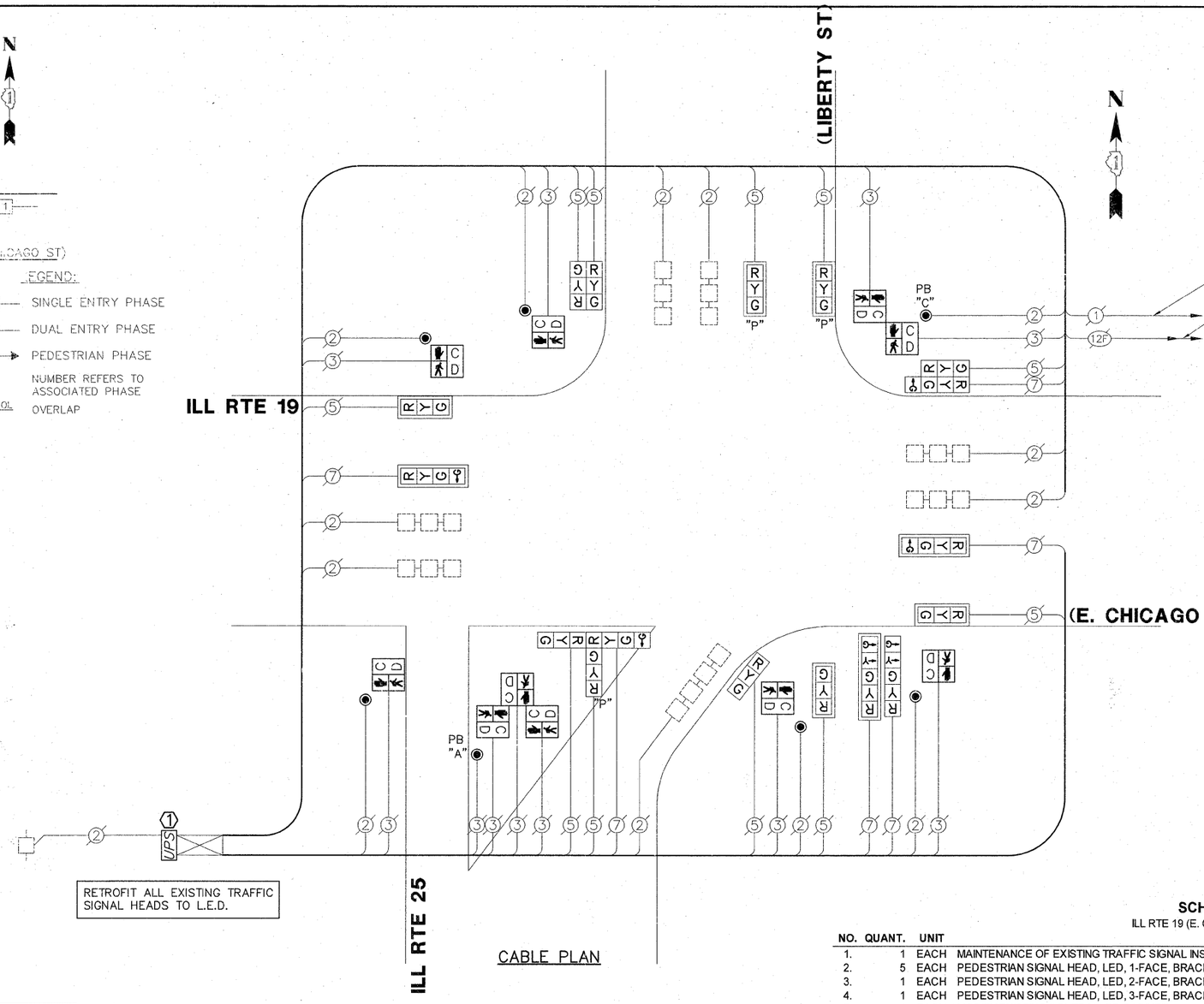



PHASE DESIGNATION DIAGRAM




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

CABLE PLAN

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

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

CONSTRUCTION NOTES:

1. THE UNINTERRUPTIBLE POWER SUPPLY UNIT SHALL BE INSTALLED ON THE LEFT SIDE OF THE EXISTING CONTROLLER CABINET.

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.

10 EACH PEDESTRIAN SIGNAL HEAD
6 EACH PEDESTRIAN PUSH-BUTTON

## SCHEDULE OF QUANTITIES

ILL RTE 19 (E. CHICAGO AV) AT ILL RTE 25 (LIBERTY ST)

| NO. | QUANT. | UNIT | |
|---|---|---|---|
| 1. | 1 | EACH | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION |
| 2. | 5 | EACH | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 3. | 1 | EACH | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 4. | 1 | EACH | PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 5. | 1 | EACH | MODIFY EXISTING CONTROLLER CABINET |
| 6. | 1 | EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT |
| 7. | 1 | EACH | UNINTERRUPTABLE POWER SUPPLY, SPECIAL |
| 8. | 1 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT |
| 9. | 3 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT |
| 10. | 1 | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT |
| 11. | 1 | EACH | SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT |
| 12. | 2 | EACH | OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT |
| 13. | 7 | EACH | PEDESTRIAN PUSH-BUTTON, NON-LATCHING |
| 14. | 2 | EACH | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT |
| 15. | 1 | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT |
| 16. | 1 | EACH | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT |
| 17. | 1 | EACH | COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-4 SECTION, 1-3 SECTION, BRACKET MOUNTED, RETROFIT |

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

| TYPE | NO. LAMPS | WATTAGE INCAND. | WATTAGE L.E.D. | % OPERATION | TOTAL WATTAGE |
|---|---|---|---|---|---|
| SIGNAL (RED) | 17 | 135 | 17 | 0.50 | 144.5 |
| SIGNAL (YELLOW) | 17 | 135 | 25 | 0.25 | 106.25 |
| SIGNAL (GREEN) | 21 | 135 | 15 | 0.25 | 78.75 |
| ARROW | 4 | 135 | 12 | 0.10 | 4.8 |
| PED. SIGNAL | 10 | 90 | 25 | 1.00 | 250.0 |
| CONTROLLER | 1 | – | 100 | 1.00 | 100.0 |
| LUMINAIRE | – | – | 250 | 0.50 | – |
| L.E.D. ST. NAME SIGN | – | – | 64 | 0.50 | – |
| VIDEO SYSTEM | – | – | 150 | 1.00 | – |
| BATTERY BACKUP | 1 | – | 25 | 1.00 | 25.0 |
| ILLUMINATED SIGN | – | – | 25 | 0.05 | – |
| | | | | TOTAL = | 709.3 |

ENERGY COSTS – BILLED TO: CITY OF ELGIN
(ADDRESS) 150 DEXTER COURT
(ADDRESS) ELGIN, IL 60120
ENERGY SUPPLY – CONTACT: –
PHONE: –
COMPANY: –

GHA #4085.880

| | | | | |
|---|---|---|---|---|
| FILE NAME = 4085.880-TR1.dwg | USER NAME = ZACH WALLSTEN | DESIGNED - JRD | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION |
| | | DRAWN - ZCW | REVISED - | |
| | PLOT SCALE = 1" = .0833' | CHECKED - KLB | REVISED - | |
| | PLOT DATE = 12/16/2011 | DATE - 12/16/2011 | REVISED - | |

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
ILL ROUTE 19 (E. CHICAGO AV) AT ILL ROUTE 25 (LIBERTY ST)

SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| VARIES | 2011-218-I | KANE | 48 | 13 |
| | | CONTRACT #: 60R60 | | |
| | | ILLINOIS FED. AID PROJECT | | |