RWA
CIVIL ENGINEERING CONSULTANTS
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## CONTROLLER SEQUENCE

IL RTE 137

ILLINOIS ST.

(BUCKLEY RD.)

## PHASE DESIGNATION DIAGRAM

## LEGEND

- ⬤ DUAL ENTRY PHASE
- ⬤ PEDESTRIAN PHASE
- ⬤ SINGLE ENTRY PHASE
- ◇ OVERLAP
- ✳ NUMBER REFERS TO ASSOCIATED PHASE

### RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | = | PERMISSIVE PHASE | + | PROTECTED PHASE |
|---|---|---|---|---|
| A | = | 2 | + | 4 |
| C | = | 6 | + | 3 |
| D | = | 4 | + | 1 |

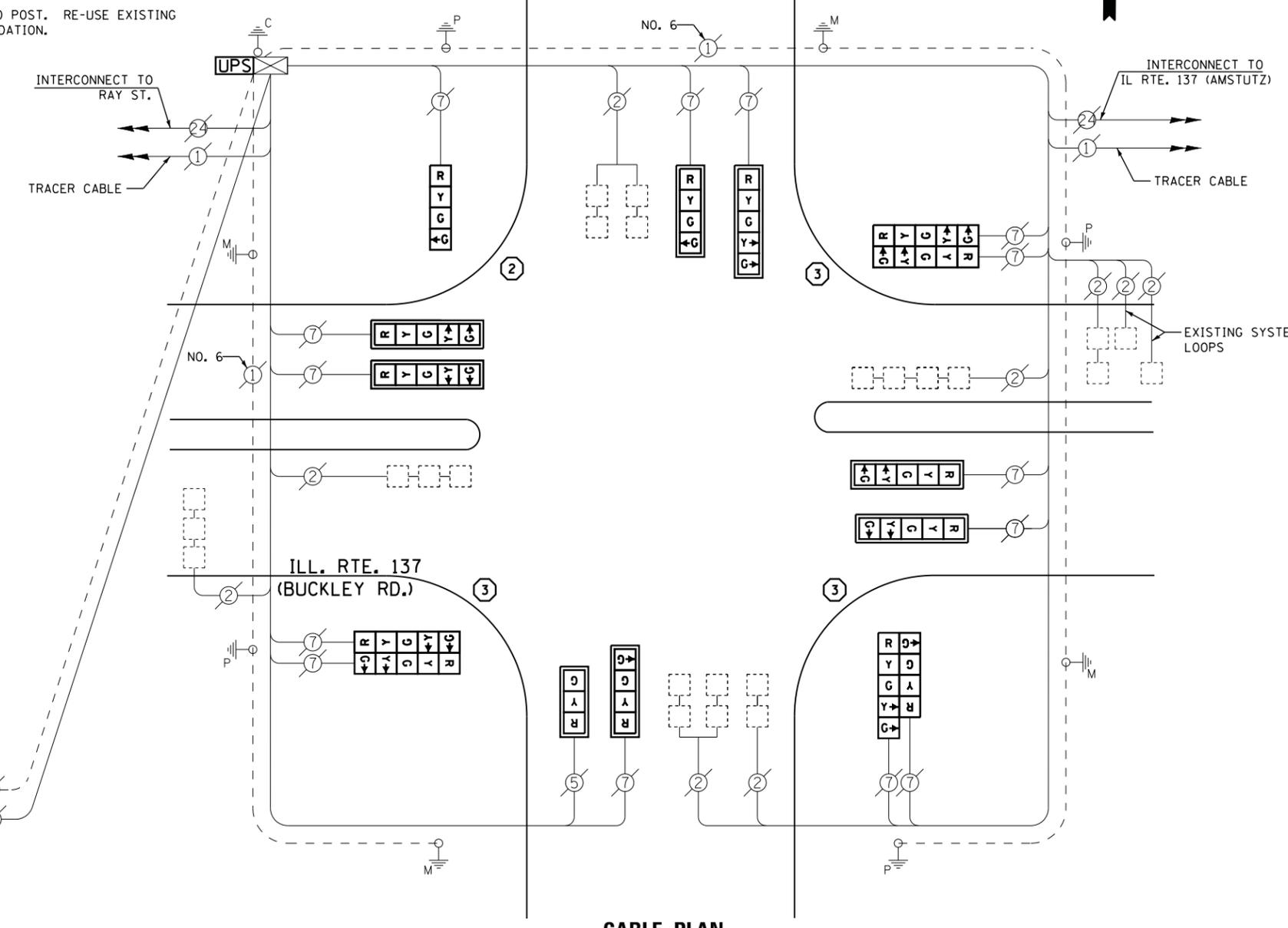1. REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
2. REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
3. REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
4. REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

## CABLE PLAN

ILLINOIS STREET

ILL. RTE. 137 (BUCKLEY RD.)

INTERCONNECT TO RAY ST.

INTERCONNECT TO IL RTE. 137 (AMSTUTZ)

TRACER CABLE

EXISTING SYSTEM LOOPS

UPS

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

| TYPE | NO. LAMPS | WATTAGE INCAND. | WATTAGE LED | % OPERATIONS | TOTAL WATTAGE |
|---|---|---|---|---|---|
| SIGNAL (RED) | 15 | 135 | 17 | 0.50 | 128 |
| (YELLOW) | 15 | 135 | 25 | 0.25 | 94 |
| (GREEN) | 19 | 135 | 15 | 0.25 | 71 |
| ARROW | 20 | 135 | 12 | 0.10 | 24 |
| PED. SIGNAL | -- | 90 | 25 | 1.00 | -- |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100 |
| ILLUM. SIGN | | 252 | 25 | 0.05 | -- |
| VIDEO SYSTEM | | 150 | - | 1.00 | -- |
| | | | | | |
| FLASHER LED | | | | | |
| | | | | TOTAL = | 417 |

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

| QUANTITY | UNIT | ITEM |
|---|---|---|
| 1 | EACH | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION |
| 1 | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. |
| 3 | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. |
| 1 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED |
| 1 | EACH | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED |
| 2 | EACH | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED |
| 5 | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED |
| 2 | EACH | SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED |
| 1 | EACH | SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED |
| 8 | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM |
| 1 | EACH | MODIFY EXISTING CONTROLLER CABINET |
| 1 | EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT |
| 1 | EACH | UNINTERRUPTABLE POWER SUPPLY, SPECIAL |

## 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 | SIGNAL HEAD, 3 - SECTION |
| 4 | EACH | SIGNAL HEAD, 4 - SECTION |
| 10 | EACH | SIGNAL HEAD, 5 - SECTION |
| 4 | EACH | SIGNAL POST |
| 8 | EACH | TRAFFIC SIGNAL BACKPLATE |

TS# 7170
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