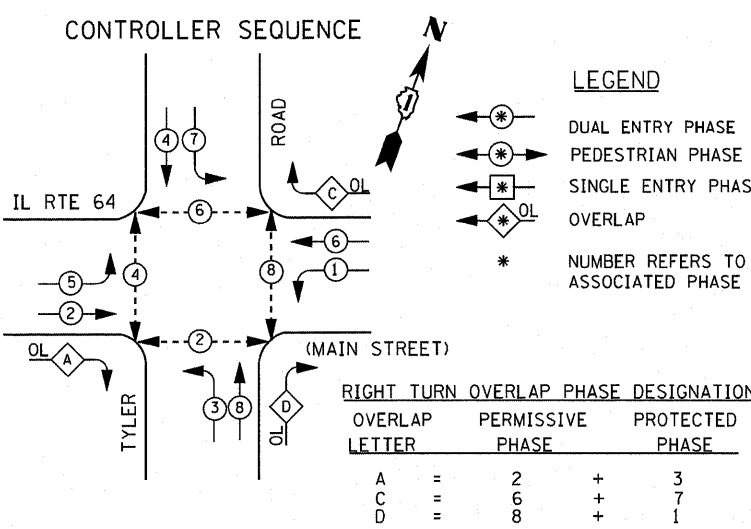


CIVIL ENGINEERING CONSULTANTS
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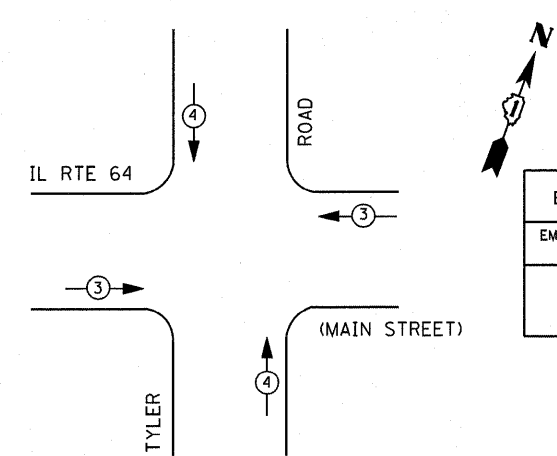
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDS IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

AT LOCATIONS WHERE UPS IS INSTALLED AND EMERGENCY VEHICLE PRIORITY SYSTEM IS IN USE, ANY EXISTING INCANDESCENT CONFIRMATION BEACONS SHALL BE REPLACED WITH LED LAMPS IN ACCORDANCE WITH THE DISTRICT ONE EMERGENCY VEHICLE PRIORITY SYSTEM SPECIFICATION AT NO ADDITIONAL COST TO THE CONTRACT.

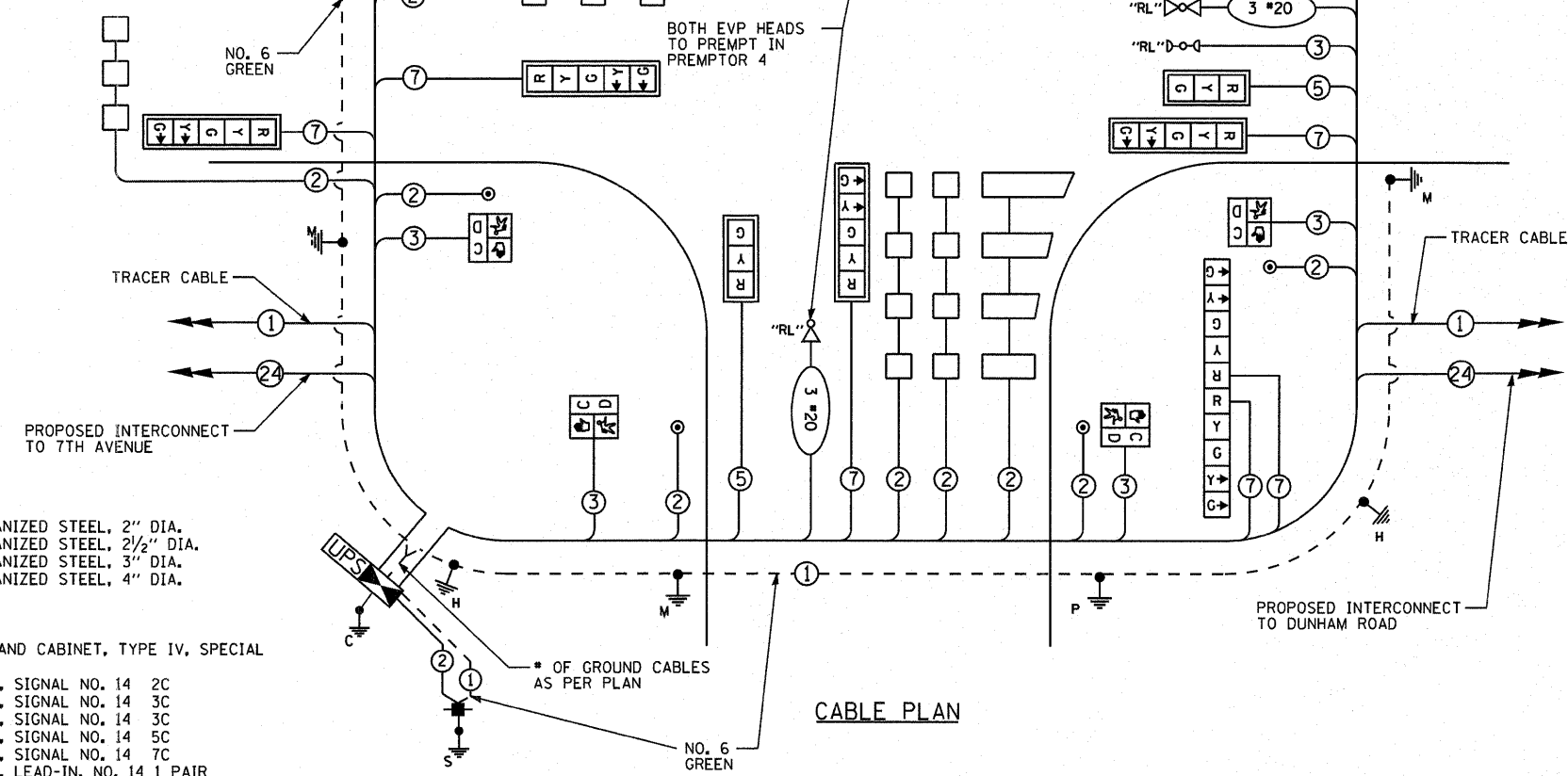
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL ROUTE 64 (MAIN STREET)



SCHEDULE OF QUANTITIES

| QUANTITY | UNIT | ITEM |
|----------|-------|--|
| 12 | SO FT | SIGN PANEL - TYPE 1 |
| 27.5 | SO FT | SIGN PANEL - TYPE 2 |
| 969 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. |
| 36 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. |
| 64 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. |
| 564 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. |
| 4 | EACH | HANDHOLE |
| 4 | EACH | HEAVY-DUTY HANDHOLE |
| 2 | EACH | DOUBLE HANDHOLE |
| * 1 | EACH | FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL |
| 1 | EACH | TRANSCEIVER - FIBER OPTIC |
| 1518 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C |
| 1581 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C |
| * 729.5 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C |
| 832.5 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C |
| 3293 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C |
| 2049.5 | FOOT | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR |
| 218 | FOOT | ELECTRIC CABLE IN CONDUIT, NO. 6 2C |
| 3 | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. |
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. |
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. |
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 52 FT. |
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 58 FT. |
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 64 FT. |
| 12 | FOOT | CONCRETE FOUNDATION, TYPE A |
| 4 | FOOT | CONCRETE FOUNDATION, TYPE C |
| 39 | FOOT | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER |
| 42 | FOOT | CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER |
| 3 | EACH | SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED |
| 9 | EACH | SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED |
| 2 | EACH | SIGNAL HEAD, L.E.D., 2-FACE, 5 SECTION, BRACKET MOUNTED |
| 1 | EACH | SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED |
| 9 | EACH | INDUCTIVE LOOP DETECTOR |
| 1687 | FOOT | DETECTOR LOOP, TYPE 1 |
| 6 | EACH | PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 1 | EACH | PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |

| QUANTITY | UNIT | ITEM |
|----------|------|--|
| 12 | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM |
| 8 | EACH | PEDESTRIAN PUSH-BUTTON |
| 1 | EACH | TEMPORARY TRAFFIC SIGNAL INSTALLATION |
| * 3 | EACH | RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT |
| * 1 | EACH | RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT |
| 1 | EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT |
| 8 | EACH | REMOVE EXISTING HANDHOLE |
| 11 | EACH | REMOVE EXISTING CONCRETE FOUNDATION |
| 1 | EACH | TEMPORARY TRAFFIC SIGNAL TIMING |
| 1 | EACH | SERVICE INSTALLATION - POLE MOUNTED |
| 1 | EACH | UNINTERRUPTIBLE POWER SUPPLY SPECIAL |
| 580 | FOOT | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C |
| * 729.5 | FOOT | ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED |

* - 100% COST TO THE CITY OF ST. CHARLES
 ** - 100% COST TO CMAQ

| I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | |
|---|-----------|---------|--------------|---------------|
| TYPE | NO. LAMPS | WATTAGE | % OPERATIONS | TOTAL WATTAGE |
| SIGNAL (RED) | 18 | INCAND. | 0.50 | 153 |
| | | LED | | 112.5 |
| | | | | 67.5 |
| ARROW | 28 | 135 | 0.10 | 33.6 |
| PED. SIGNAL | 8 | 90 | 1.00 | 200 |
| CONTROLLER | 1 | 100 | 1.00 | 100 |
| ILLUM. SIGN | | 252 | 0.05 | -- |
| VIDEO SYSTEM | | 150 | 1.00 | -- |
| FLASHER LED | | | | |
| TOTAL = | | | | 666.6 |

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

ENERGY SUPPLY - CONTACT TOM BRUHL
 PHONE 630-377-4401
 COMPANY CITY OF ST. CHARLES