| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 345 | 8R-1-N-1 | COOK | 196 | 84 |

STA.      TO STA.

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT

## PROPOSED CONTROLLER SEQUENCE



U.S. RTE. 20

## LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
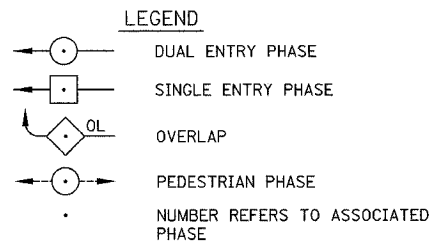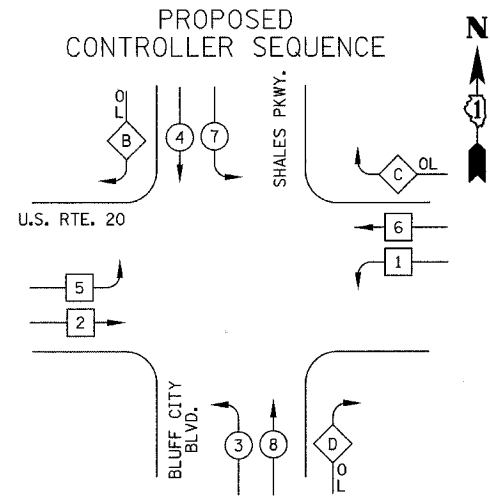
## PHASE DESIGNATION DIAGRAM

### RIGHT TURN OVERLAP PHASE DESIGNATION

| OVERLAP LETTER | | PERMISSIVE PHASE | | PROTECTED PHASE |
|---|---|---|---|---|
| B | = | FREE-FLOW MOVEMENT | | |
| C | = | 6 | + | 7 |
| D | = | 8 | + | 1 |

## PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



U.S. RTE. 20
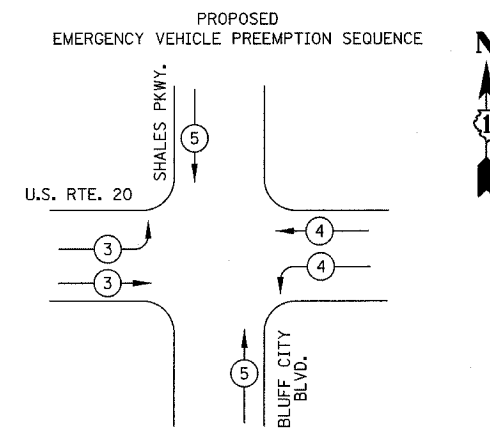
## PROPOSED EMERGENCY VEHICLE PREEMPTORS

| EMERGENCY VEHICLE PREEMPTOR | 3 | 4 | 5 |
|---|---|---|---|
| MOVEMENT | | | |

## SCHEDULE OF QUANTITIES

| PAY ITEM | UNIT | QUANTITY |
|---|---|---|
| SIGN PANEL - TYPE 1 | SQ FT | 56 |
| SIGN PANEL - TYPE 2 | SQ FT | 25 |
| CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL | FOOT | 522 |
| CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL | FOOT | 1130 |
| CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL | FOOT | 10 |
| CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL | FOOT | 16 |
| CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL | FOOT | 10 |
| CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL | FOOT | 109 |
| CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL | FOOT | 655 |
| CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL | FOOT | 114 |
| HANDHOLE | EACH | 6 |
| HEAVY-DUTY HANDHOLE | EACH | 6 |
| DOUBLE HANDHOLE | EACH | 3 |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 1683 |
| FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL) | EACH | 1 |
| TRANSCEIVER - FIBER OPTIC | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 978 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 3412 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 2381 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR | FOOT | 7048 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 41 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT. | EACH | 1 |
| ✳ TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT. | EACH | 2 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 52 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 12 |
| CONCRETE FOUNDATION, TYPE C | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER | FOOT | 30 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 45 |
| SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 10 |
| SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 1 |
| SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 6 |
| SIGNAL HEAD, L.E.D., 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED | EACH | 1 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM | EACH | 16 |
| INDUCTIVE LOOP DETECTOR | EACH | 18 |
| DETECTOR LOOP, TYPE I | FOOT | 1908 |
| ✳ LIGHT DETECTOR | EACH | 5 |
| ✳ LIGHT DETECTOR AMPLIFIER | EACH | 1 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 10 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 7 |
| SERVICE INSTALLATION, POLE MOUNT | EACH | 1 |
| UNINTERRUPTIBLE POWER SUPPLY | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 1675 |
| ✳ ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED | FOOT | 2352 |
| TEMPORARY TRAFFIC SIGNAL TIMINGS | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 52 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE E (SPECIAL) | FOOT | 15 |

✳ 100% COST TO CITY OF ELGIN

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

| REVISIONS | |
|---|---|
| NAME | DATE |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EMERGENCY VEHICLE PREEMPTION SEQUENCE, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES**

U.S. RTE. 20 (LAKE STREET) & SHALES PKWY./BLUFF CITY BLVD.

SCALE: NOT TO SCALE

DATE: 12/14/2007

DRAWN BY: CEC
DESIGNED BY: BRD
CHECKED BY: JJE