

TIME: 07:59:31 AM

DATE: 06/06/2005

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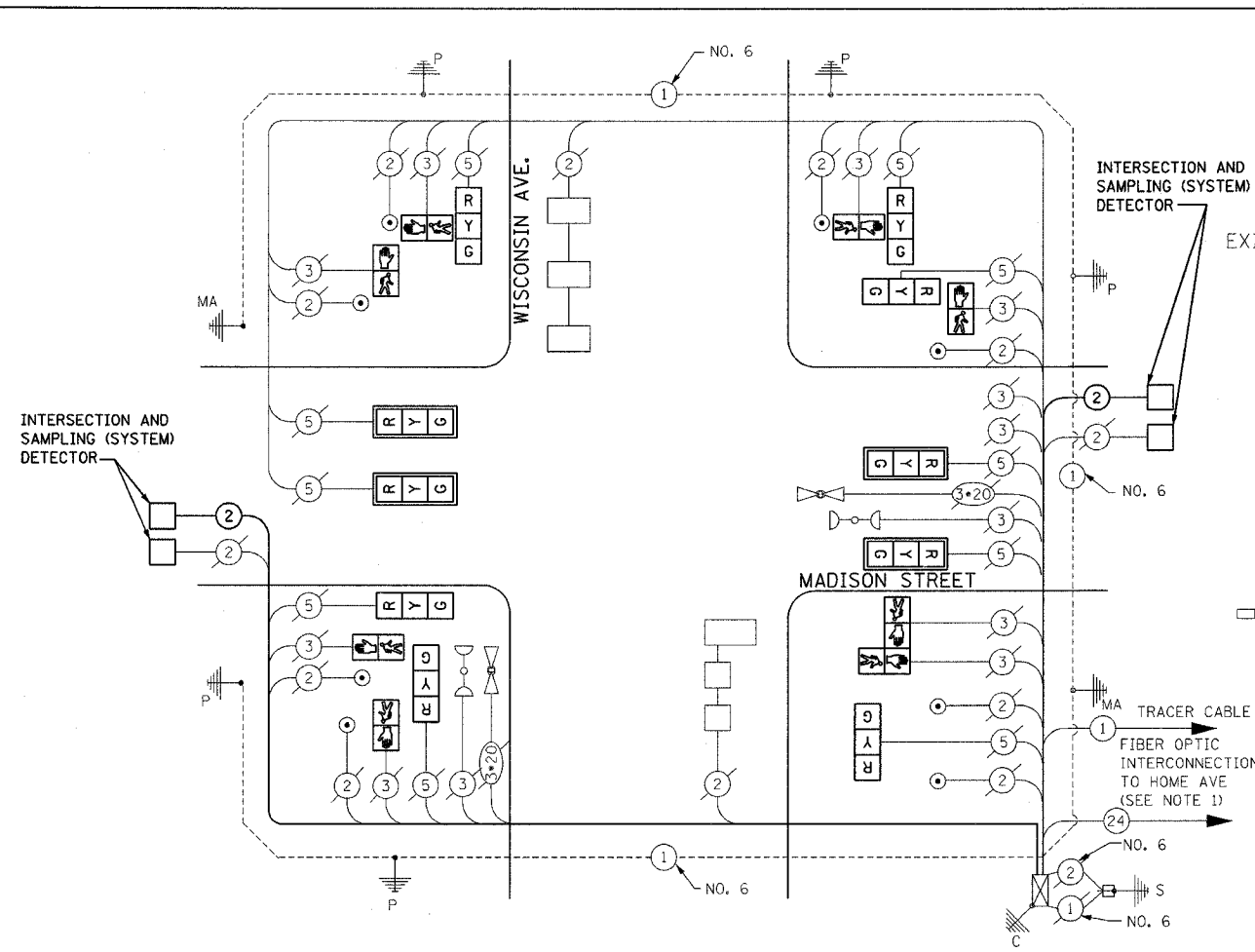
| ITEM | UNIT | QUANTITY |
|---|------|----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 677 |
| DRILL EXISTING HANDHOLE | EACH | 2 |
| TRAFFIC SIGNAL BACKPLATE | EACH | 4 |
| INDUCTIVE LOOP DETECTOR | EACH | 2 |
| DETECTOR LOOP, TYPE I | FOOT | 152 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 6 |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 6 |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED | EACH | 1 |

THE CONTRACTOR SHALL REPLACE ALL EXISTING SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS WITH L.E.D. (LIGHT EMITTING DIODE) SIGNAL HEADS.

1. THE CONTRACTOR SHALL RE-CONNECT THE EXISTING FIBER OPTIC CABLE IN PLACE BETWEEN WISCONSIN AVENUE AND HOME AVENUE TO THE CONTROLLER AT WISCONSIN AVENUE.

| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1419 | 04-00239-00-TL | COOK | 34 | 6 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

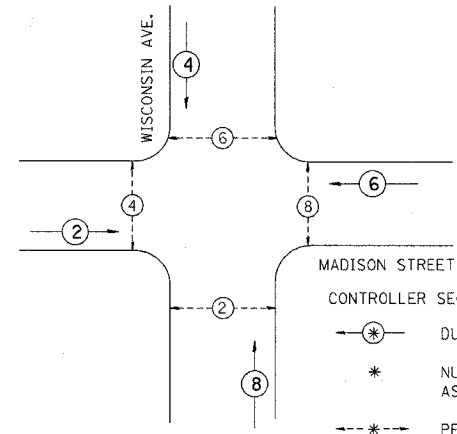
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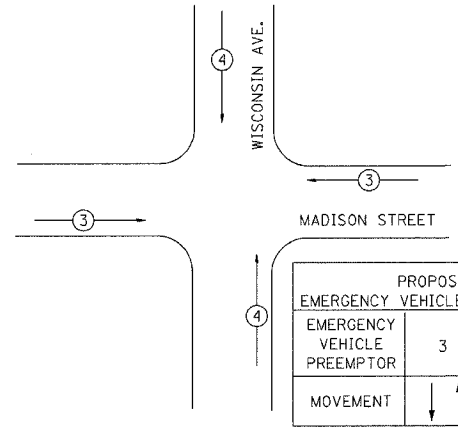
CABLE PLAN LEGEND

- | | | |
|--|--|---|
| | | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS) |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS) |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTIVE LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F |
| | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F |
| | | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. |
| | | GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXIST. AND PROP. EMERGENCY VEHICLE PREEMPTION DIAGRAM



PHASE DESIGNATION DIAGRAM

- CONTROLLER SEQUENCE LEGEND
- DUAL ENTRY PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE
 - PEDESTRIAN PHASE

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|--|-----------|---------|-----|------------|---------------|
| TYPE | NO. LAMPS | WATTAGE | | %OPERATION | |
| | | INCAND. | LED | | |
| SIGNAL (RED) | 10 | | 17 | 0.50 | 85 |
| (YELLOW) | 10 | | 25 | 0.25 | 62.5 |
| (GREEN) | 10 | | 15 | 0.25 | 37.5 |
| ARROW | 0 | | 12 | 0.10 | 0 |
| PED. SIGNAL | 8 | | 25 | 1.00 | 200 |
| CONTROLLER | 1 | | 100 | 1.00 | 100 |
| ILLUM. SIGN | | | | 0.05 | 0 |

| | | | | | |
|------------------------------|---|---------|--|------|---|
| FLASHER | 1 | | | 0.50 | 0 |
| ENERGY COSTS TO: | | TOTAL = | | 485 | |
| VILLAGE OF OAK PARK | | | | | |
| ENERGY SUPPLY CONTACT: | | | | | |
| PHONE: | | | | | |
| COMPANY: Commonwealth Edison | | | | | |

| FOUNDATION (DEPTH) | FT. (m) | CABLE SLACK | FT. (m) | VERTICAL | FT. (m) |
|--------------------|----------|------------------|-----------|--------------------|----------------------|
| TYPE A - POST | 4 (1.2) | HANDHOLE | 6.5 (2.0) | ALL FOUNDATIONS | 3.5 (1.0) |
| D - CONTROLLER | 4 (1.2) | DOUBLE HANDHOLE | 13 (4.0) | MAST ARM (L) POLE | 20'±L-2= (6m±L-0.6m) |
| E - M. ARM POLE | | SIGNAL POST | 2 (1.0) | | |
| 24" (600 mm) | 10 (3.0) | CONTROLLER CAB. | 1 (0.5) | BRACKET MOUNTED | 13 (4.0) |
| 30" (750 mm) | 15 (4.6) | FIBER OPTIC | 13 (4.0) | PED. PUSHBUTTON | 4 (1.2) |
| | | ELECTRIC SERVICE | 1 (0.5) | ELECTRICAL SERVICE | 13.5 (4.1) |
| | | GROUND CABLE | 1 (0.5) | SERVICE TO GROUND | 13.5 (4.1) |
| | | | | POST MOUNTED | 6 (1.8) |



| REVISIONS | |
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| NAME | DATE |
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| ILLINOIS DEPARTMENT OF TRANSPORTATION | |
| FAU 1419 MADISON STREET CABLE PLAN MADISON STREET & WISCONSIN AVENUE | |
| VERT. SCALE: 1"=10' | DRAWN BY RCB |
| HORIZ. SCALE: 1"=40' | CHECKED BY |
| DATE: 06/06/2005 | TRAFFIC SIGNAL PLAN |