

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------------|---------------------------|--------------|--------------------|
| 303 | 131B (1&2) BR | McHENRY | 107 | 38 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | CONTRACT NO. 60B83 |

SEQUENCE OF OPERATION

| | | | | | | |
|---------------------------|---------------------|----|---------------------|---|----|----|
| MOVEMENT | WHITE OAKS RD. | | WHITE OAKS RD. | | F | |
| | IL. ROUTE 173 | | IL. ROUTE 173 | | L | |
| | BECK'S RD. (CLOSED) | | BECK'S RD. (CLOSED) | | A | |
| PHASE | 1 | | | 2 | | S |
| INTERVAL | 1 | 2A | 2B | 3 | 4A | 4B |
| CHANGE TO | 2 | | | 1 | | H |
| IL. RTE. 173 SIGNAL (W/B) | G | Y | R | R | R | R |
| IL. RTE. 173 SIGNAL (E/B) | R | R | R | G | Y | R |

| ITEM | DESCRIPTION | UNIT | QUANTITY |
|----------|--|------|----------|
| 89000100 | TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| 89502375 | *REMOVE EXISTING TRAFFIC SIGNAL EACH EQUIPMENT | EACH | 1 |

*REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR UNDER THIS ITEM AND SHALL BE DISPOSED OF BY HIM OUTSIDE THE RIGHT-OF-WAY AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
 3 EACH WOODEN POLES
 1 EACH BATTERY BACK-UP

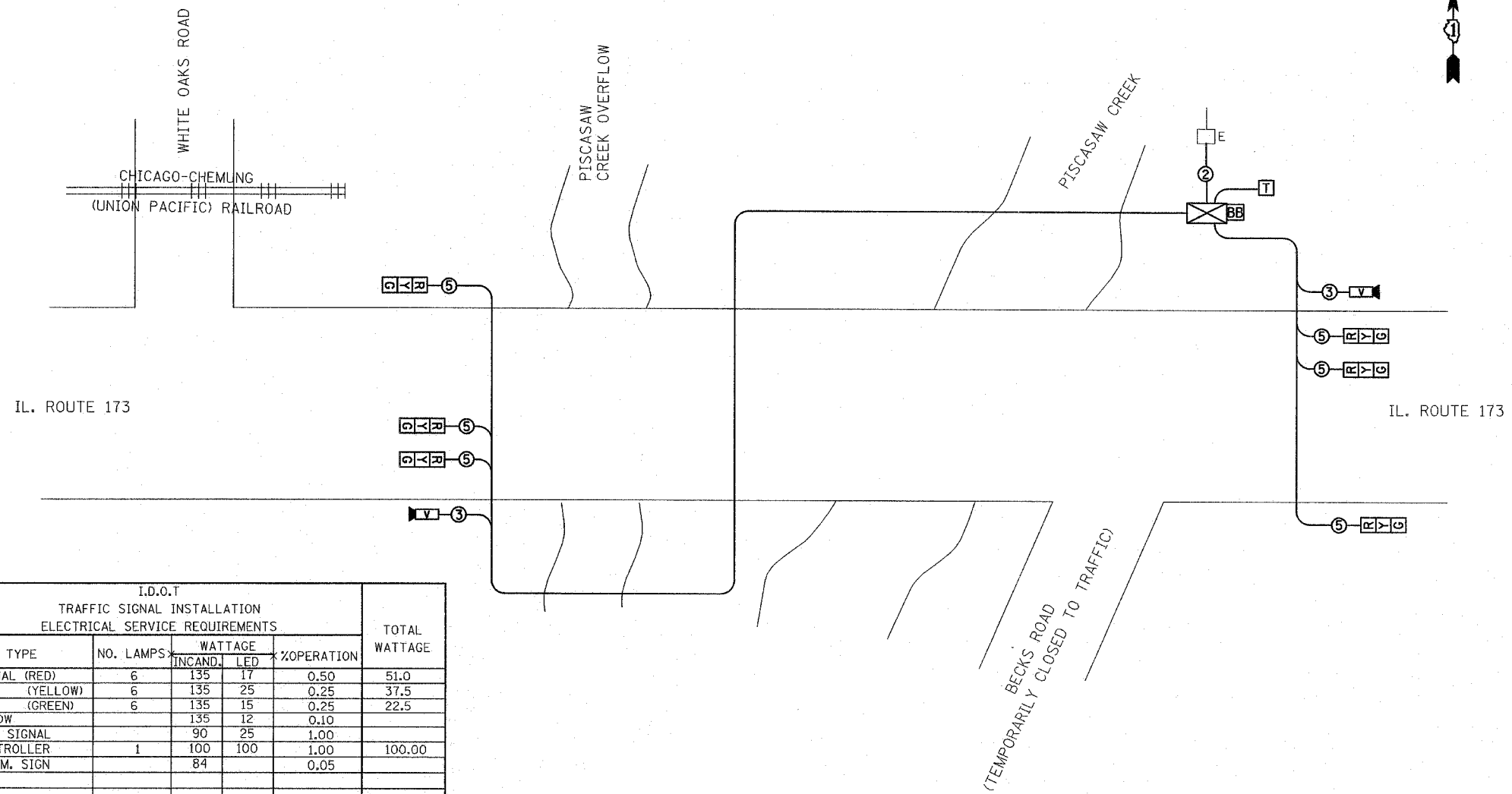
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR UNDER THIS ITEM AND SHALL BE RETURNED TO THE WOODSTOCK MAINTENANCE YARD AT HIS EXPENSE.
 3 EACH VIDEO DETECTOR SENSOR
 1 EACH CONTROLLER

TEMPORARY CABLE DIAGRAM LEGEND

- | | | |
|-----------------|-----------------|--|
| EXISTING | PROPOSED | |
| | | TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300 mm) |
| | | TEMPORARY CONTROLLER CABINET |
| | | TEMPORARY SERVICE INSTALLATION |
| | | INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED. |
| | | VIDEO DETECTOR SENSOR |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | TELEPHONE CONNECTION |
| | | BATTERY-BACK UP |

NOTES:

- TELEPHONE CONNECTION AND ELECTRIC SERVICE FROM ADJACENT FACILITIES TO CONTROLLER CABINET MUST BE MAINTAINED.
- USE ROADWAY AND BRIDGE PLANS FOR SUGGESTED STAGING.
- BECK'S ROAD TO REMAIN CLOSED DURING CONSTRUCTION FOR ANY INGRESS/EGRESS TO/FROM IL. RTE. 173.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING SPAN WIRE, TETHER WIRE, CABLES, SIGNAL HEADS AND VIDEO DETECTOR SENSORS AND SHALL PROVIDE NEW OF THE SAME FOR THE PROPOSED TEMPORARY SIGNALS.
- HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING.
- THE PROPOSED TEMPORARY TRAFFIC SIGNAL SHALL BE ACTIVATED, TESTED OPERATIONAL AND APPROVED BY THE ENGINEER BEFORE ANY OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT IS REMOVED.
- ALL LABOR AND MATERIALS TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE BID PRICE OF TEMPORARY SIGNAL INSTALLTION.
- REMOVAL OF TEMPORARY SIGNALS SHOULD BE DONE AS DIRECTED BY THE ENGINEER AND MUST BE DONE IN COORDINATION WITH THE REMOVAL OF TEMPORARY LIGHTING.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT AN APPROPRIATE SIZE OF CONDUCTOR FOR VIDEO DETECTOR SENSORS, WHICH IS IN COMPLIANCE WITH IDOT'S MAXIMUM VOLTAGE DROP PROVISIONS.



| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | TOTAL WATTAGE | |
|--|-----------|---------|-----|---------------|--------|
| TYPE | NO. LAMPS | WATTAGE | | % OPERATION | |
| | | INCAND. | LED | | |
| SIGNAL (RED) | 6 | 135 | 17 | 0.50 | 51.0 |
| (YELLOW) | 6 | 135 | 25 | 0.25 | 37.5 |
| (GREEN) | 6 | 135 | 15 | 0.25 | 22.5 |
| ARROW | | 135 | 12 | 0.10 | |
| PED. SIGNAL | | 90 | 25 | 1.00 | |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100.00 |
| ILLUM. SIGN | | 84 | | 0.05 | |
| FLASHER | | | | 0.50 | -- |
| ENERGY COSTS TO BE BILLED TO ADDRESS: _____ | | | | TOTAL = | 211 |
| ENERGY SUPPLY CONTACT: LARRY WOODLE | | | | | |
| PHONE: (708) 235-2327 | | | | | |
| COMPANY: COM. ED. | | | | | |

| 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" |
| E - M. ARM POLE | | SIGNAL POST | 2 (1.0) | (6m±L-0.6m)± | |
| 24" (600mm) | 10 (3.0) | CONTROLLER CAB. | 1 (0.5) | BRACKET MOUNTED | 13 (4.0) |
| 30" (750mm) | 15 (4.6) | FIBER OPTIC | 13 (4.0) | PED. PUSHBUTTON | 4 (1.2) |
| | | ELECTRIC SERVICE | 1 (0.5) | ELECTRIC SERVICE | 13.5 (4.1) |
| | | GROUND CABLE | 1 (0.5) | SERVICE TO GROUND | 13.5 (4.1) |
| | | | | POST MOUNTED | 6 (1.8) |

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 1-312-372-2023 FAX: 1-312-372-5274

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 IL. RTE 173

SCALE: NONE
 DATE: APRIL 16, 2007

DRAWN BY: M.A.
 CHECKED BY: M.A./S.J.P.