## SCHEDULE OF QUANTITIES

| NO. | ITEM DESCRIPTION | UNIT | TOTAL |
|---|---|---|---|
| 1 | SERVICE INSTALLATION, POLE MOUNT | EACH | 2 |
| 179 | CONDUIT IN TRENCH, 2 IN. DIA., GALVANIZED STEEL | FOOT | 60 * |
| 180 | CONDUIT IN TRENCH, 2½IN. DIA., GALVANIZED STEEL | FOOT | 103 * |
| 181 | CONDUIT IN TRENCH, 4 IN. DIA., GALVANIZED STEEL | FOOT | 15 |
| 182 | CONDUIT PUSHED, 4 IN. DIA., GALVANIZED STEEL | FOOT | 145 * |
| 183 | HANDHOLE | EACH | 3 * |
| 184 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 722 * |
| 185 | REMOVAL OF ELECTRICAL SERVICE INSTALLATION | EACH | 1 |
| 186 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| 190 | GROUNDING EXISTING HANDHOLE FRAME AND COVER | EACH | 9 |
| 191 | ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6, 1C | FOOT | 1936 |
| 192 | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 205 |
| 193 | ELECTRICAL CABLE IN CONDUIT, SIGNAL, NO. 14 2C | FOOT | 777 |
| 194 | ELECTRICAL CABLE IN CONDUIT, SIGNAL, NO. 14 3C | FOOT | 1649 |
| 195 | ELECTRICAL CABLE IN CONDUIT, SIGNAL, NO. 14 5C | FOOT | 872 |
| 196 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 PAIR | FOOT | 400 * |
| 198 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 | EACH | 3 |
| 199 | CONCRETE FOUNDATION, TYPE A | FOOT | 12 |
| 200 | DRILL EXISTING HANDHOLE | EACH | 8 * |
| 201 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 4 |
| 202 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 4 |
| 203 | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED | EACH | 4 |
| 205 | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED | EACH | 4 |
| 206 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM | EACH | 8 |
| 207 | DETECTOR LOOP, TYPE I | FOOT | 620 * |
| 208 | PEDESTRIAN PUSHBUTTON | EACH | 4 |
| 209 | TEMPORARY TRAFFIC SIGNAL INSTALLATION | L SUM | 1 |
| 210 | MODIFY EXISTING CONTROLLER | EACH | 1 |
| 211 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 600 * |
| 212 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| 213 | REMOVE EXISTING HANDHOLE | EACH | 2 |
| 214 | REBUILD EXISTING HANDHOLE | EACH | 2 |

* WITH TOKEN

TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

| TYPE | NO. OF LAMPS | WATTAGE INCAND. | WATTAGE LED | % OPERATION | TOTAL WATTAGE |
|---|---|---|---|---|---|
| SIGNAL (RED) | 16 | 135 | 17 | 0.50 | 136 |
| (YELLOW) | 16 | 135 | 25 | 0.25 | 100 |
| (GREEN) | 16 | 135 | 15 | 0.25 | 60 |
| ARROW | 8 | 135 | 12 | 0.10 | 9.6 |
| PED. SIGNAL | 8 | 90 | 25 | 1.00 | 200 |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100 |
| ILLUM. SIGN | | 252 | 35 | 0.05 | |
| FLASHER | | | | 0.50 | |
| | | | | TOTAL = | 605.6 |

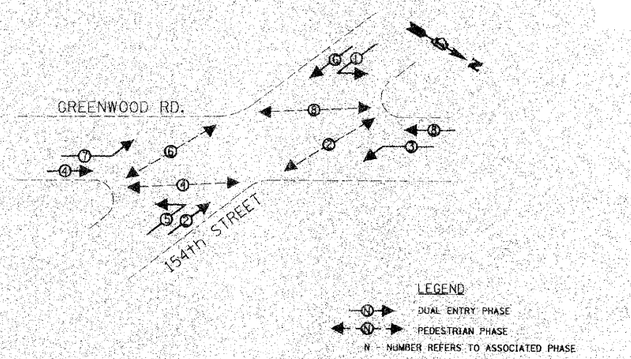
ENERGY COSTS TO:
THE VILLAGE OF DOLTON

ENERGY SUPPLY: CONTACT:
PHONE:
COMPANY: COMED

| FOUNDATION (DEPTH) | FT. |
|---|---|
| TYPE A-POST | 4 |
| D-CONTROLLER | 4 |
| E-M. ARM POLE | |
| 24" | 10 |
| 30" | 15 |

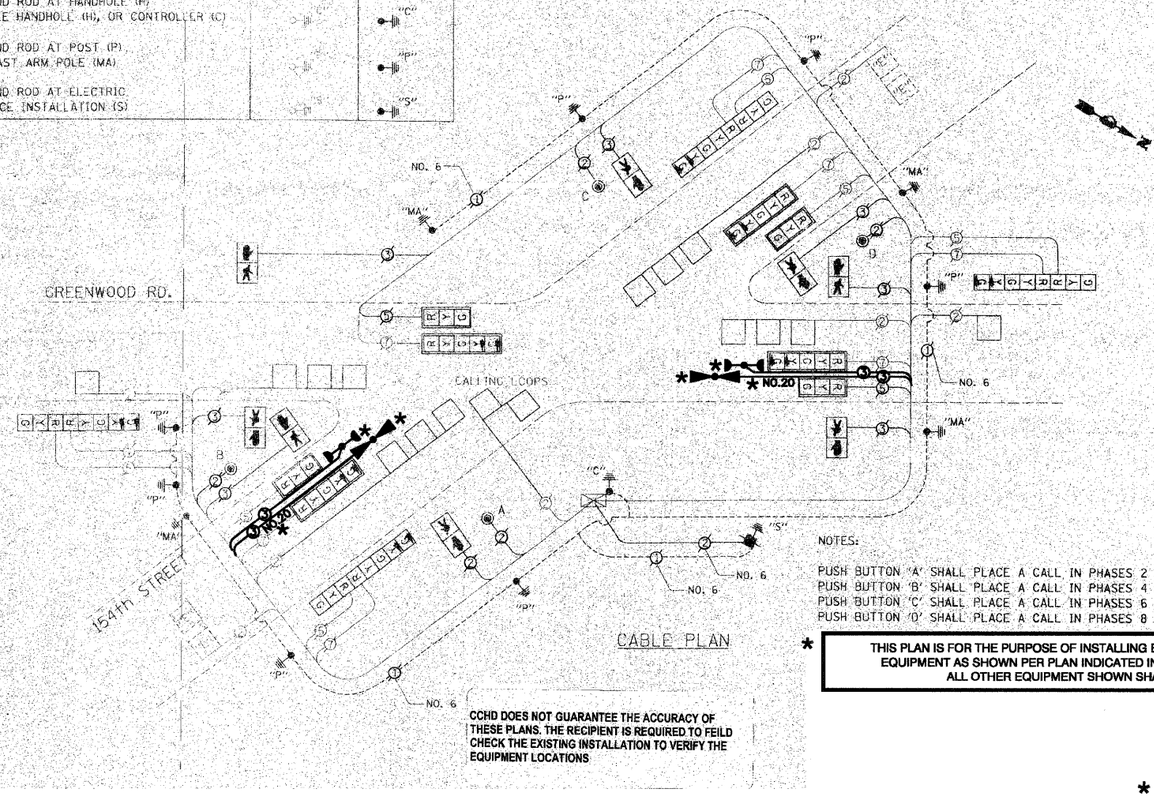
| CABLE SLACK | FT. |
|---|---|
| HANDHOLE | 6.5 |
| DOUBLE HANDHOLE | 13 |
| SIGNAL POST | 2 |
| CONTROLLER CAB. | 1 |
| FIBER OPTIC | 13 |
| ELECTRIC SERVICE | 1 |
| GROUND CABLE | 1 |
| VERTICAL | FT. |
| ALL FOUNDATIONS | 3.5 |
| MAST ARM (L) POLE | 20'+L-2= |
| BRACKET MOUNTED | 13 |
| PED. PUSHBUTTON | 4 |
| ELECTRIC SERVICE | 13.5 |
| SERVICE TO GROUND | 13.5 |
| POST MOUNTED | 6 |

| CABLE PLAN LEGEND | EXISTING | PROPOSED |
|---|---|---|
| 8" TRAFFIC SIGNAL SECTION | | |
| 12" TRAFFIC SIGNAL SECTION | | |
| LEFT TURN YELLOW | -Y | -Y |
| LEFT TURN GREEN | -G | -G |
| 12" PEDESTRIAN SIGNAL SECTION | | |
| CONTROLLER CABINET | | |
| SERVICE INSTALLATION | | |
| VEHICLE DETECTOR INDUCTION LOOP | | |
| EMERGENCY VEHICLE LIGHT DETECTOR | | |
| CONFIRMATION BEACON | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | |
| DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. | | (2) |
| GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) | (1) | (1) |
| SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD | "P" | "P" |
| GROUND ROD AT HANDHOLE (H) DOUBLE HANDHOLE (HH), OR CONTROLLER (C) | | "C" |
| GROUND ROD AT POST (P) OR MAST ARM POLE (MA) | | "P" "MA" |
| GROUND ROD AT ELECTRIC SERVICE INSTALLATION (S) | | "S" |




### PHASE DESIGNATION DIAGRAM

DENOTES NUMBER OF CONDUCTORS.
ALL CABLE NO. 14 EXCEPT AS
INDICATED. ALL LOOP DETECTOR
TO BE SHIELDED.




CABLE PLAN

NOTES:

PUSH BUTTON 'A' SHALL PLACE A CALL IN PHASES 2 AND 4.
PUSH BUTTON 'B' SHALL PLACE A CALL IN PHASES 4 AND 6.
PUSH BUTTON 'C' SHALL PLACE A CALL IN PHASES 6 AND 8.
PUSH BUTTON 'D' SHALL PLACE A CALL IN PHASES 8 AND 2.

CCHD DOES NOT GUARANTEE THE ACCURACY OF THESE PLANS. THE RECIPIENT IS REQUIRED TO FEILD CHECK THE EXISTING INSTALLATION TO VERIFY THE EQUIPMENT LOCATIONS

* THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* ADDED EV PREEMPTION LOCATION NO. 1

FILE NAME = 09324-PLAN-02 - IDOT P02

| | | | |
|---|---|---|---|
| USER NAME = | DESIGNED — MRS | REVISED — 10-13-09 * | |
| | CHECKED — PKB | REVISED — | |
| PLOT SCALE = | DRAWN — PS | REVISED — | |
| PLOT DATE = 10-13-09 | CHECKED — AG | REVISED — | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
154TH STREET & GREENWOOD ROAD
SCHEDULE OF QUANTITIES, CABLE PLAN, & PHASE DESIGNATION DIAGRAM

SCALE: NTS | SHEET NO. 5 OF 43 SHEETS | STA. | TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 1607 | 09-00114-00-TL | COOK | 43 | 5 |
| | | CONTRACT NO. 63317 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT ARA-9003(336) | | |