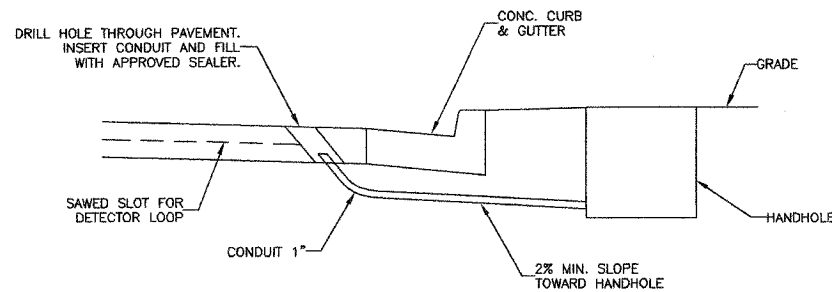


SUMMARY OF QUANTITIES

PAY CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1006
88600100	DETECTOR LOOP, TYPE I	FOOT	542
89502100	REBUILD EXISTING SIGNAL HEAD	EACH	3
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	703



**DETAIL
DETECTOR LOOP LEAD-IN
WITH CURB & GUTTER**

ELECTRICAL GENERAL NOTES:

- ALL VEHICLE SIGNAL HEADS SHALL BE POLYCARBONATE AND HAVE 12 INCH INDICATIONS. ALL MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM.
- ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER, UNLESS OTHERWISE SPECIFIED. FIELD WIRES SHALL BE LANDED AT CONTROLLER OUTPUT TERMINALS USING ILSCO SLU-35 CONNECTORS OR EQUIVALENT.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWS IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATION. AGENCIES KNOWN TO HAVE UNDERGROUND FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING: (MEMBER OF J.U.L.I.E. PHONE (800) 892-0123 ARE INDICATED BY *(CALL ONE WEEK BEFORE YOU PLAN TO DIG).

*WATER - ILLINOIS AMERICAN
*TELEPHONE - AT&T ILLINOIS
*GAS & ELECTRIC - AMEREN IP
*SANITARY SEWER - CITY OF GRANITE CITY
*CABLE T.V. - CHARTER COMMUNICATONS
- ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THEY SHALL BE RACK MOUNTED.

**DETECTOR LOOP REQUIREMENTS & CALCULATIONS
IL RTE 3 & BISSELL AVE**

LOOP	PHASE	LOOP SIZE (FEET)	REQUIRED NO. OF TURNS	CALCULATED DISTANCE (microhenries) μH	CALCULATED RESISTANCE (ohms) Ω
EB LT	3	6' x 50'	3-6-3	862	3.3
EB THRU	8	6' x 50'	3-6-3	865	3.4
EB RT	8	6' x 50'	3-6-3	867	3.4

THE ABOVE VALUES ARE CALCULATION OF COMBINED LOOP & LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN $\pm 20\%$ OF THESE VALUES.

STANDARDS

- 857001
- 880006
- 886001
- 886006

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
X	X	MADISON		
JOB NO.		ILLINOIS		

TRAFFIC SIGNAL LEGEND

- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- PROPOSED DETECTOR LOOP
- EXISTING DETECTOR LOOP
- PROPOSED CONDUIT: "T" TRENCH, "P" PUSHED, SIZE SPECIFIED
- EXISTING CONDUIT
- EXISTING SERVICE INSTALLATION
- EXISTING CONTROLLER CABINET
- G.S.C. GALVANIZED STEEL CONDUIT
- P.V.C.C. POLYVINYL CHLORIDE CONDUIT

SHEET NO.

68

Job No. 046-06
Date: 11/16/06
Scale: NONE
Drawn by: A.J.T.
Design by: K.W.
Approved by: C.M.B.
File Name: TS046-06

REVISIONS

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SUMMARY OF QUANTITIES

IL. RTE. 3 & BISSELL AVE.
GRANITE CITY, ILLINOIS