

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	*	LAKE	554	283
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT #62700				
* (L-2LW,R); 6,6A & 6EXTWRS-1				

**SCHEDULE OF QUANTITIES**

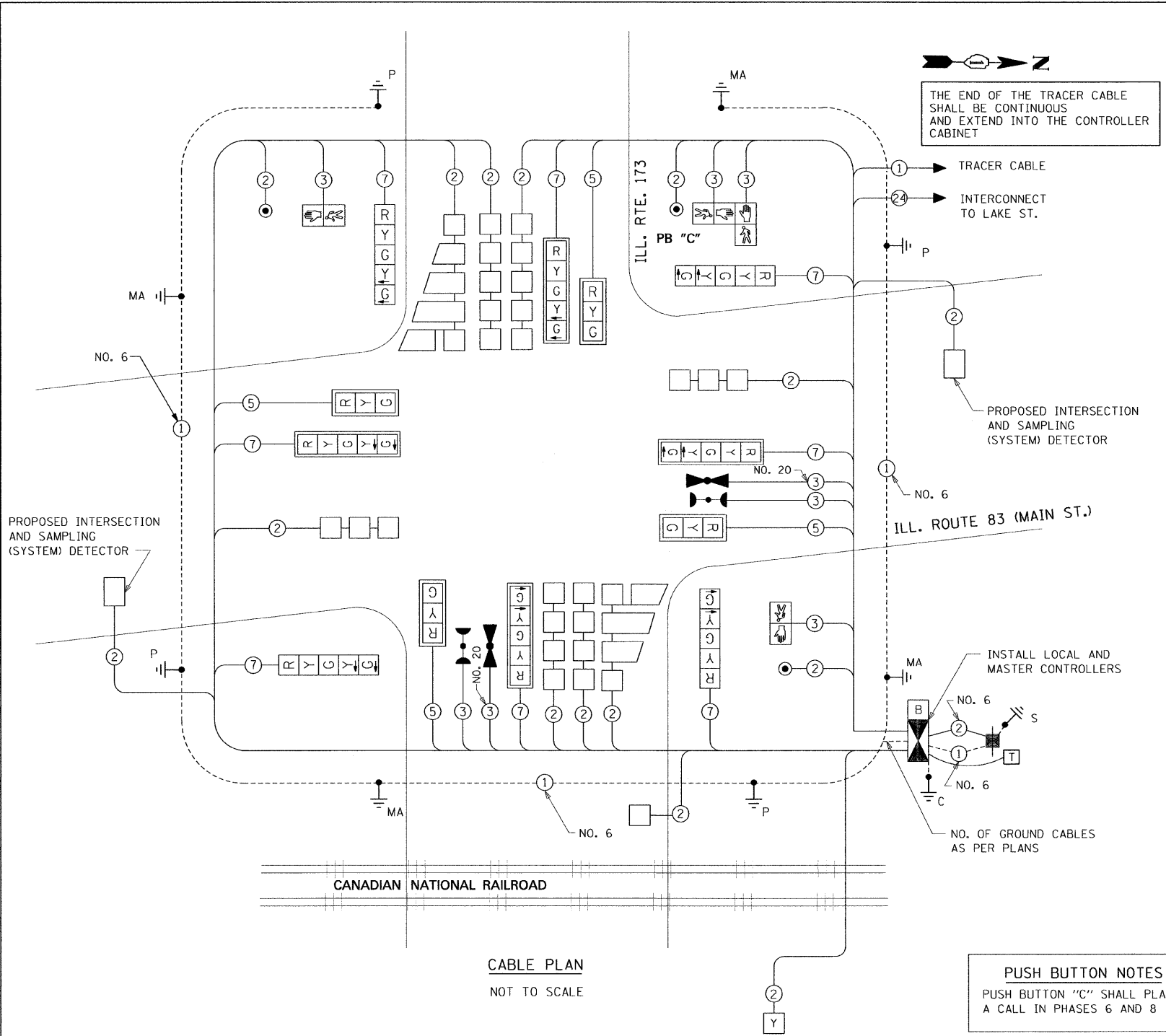
PAY ITEM	UNITS	TOTAL
SIGN PANEL - TYPE 1	SQ FT	21.5
SIGN PANEL - TYPE 2	SQ FT	25
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	907
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	115
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	64
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	309
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	330
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1155
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	870
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1255
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1110
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1955
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3000
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	105
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	56
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	11
DETECTOR LOOP, TYPE I	FOOT	1300
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	3
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	15
REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)	EACH	1
SERVICE INSTALLATION, POLE MOUNT	FOOT	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	700
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	EACH	390
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

\* 100% COST TO THE VILLAGE OF ANTIOCH

NOTE: EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES AND DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

**CABLE PLAN LEGEND**

- | EXISTING | PROPOSED |   |
|----------|----------|---|
|          |          | 8" (200mm) TRAFFIC SIGNAL SECTION   |
|          |          | 12" (300mm) TRAFFIC SIGNAL SECTION  |
|          |          | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
|          |          | CONTROLLER CABINET  |
|          |          | SERVICE INSTALLATION  |
|          |          | VEHICLE DETECTOR, INDUCTION LOOP  |
|          |          | TELEPHONE INSTALLATION  |
|          |          | 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-MMI2F SM12F   |
|          |          | SIGNAL FACE WITH BACK PLATE "P" INDICATES PROGRAMMED HEAD.  |
|          |          | RAILROAD CONTROL CABINET  |
|          |          | ILLUMINATED SIGN "NO LEFT TURN"   |
|          |          | ILLUMINATED SIGN "NO RIGHT TURN"  |
|          |          | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), OR CONTROLLER (C)   |
|          |          | GROUND ROD AT POST (P) OR MAST ARM POLE (MA)  |
|          |          | GROUND ROD AT ELECTRIC SERVICE INSTALLATION   |
|          |          | UN-INTERRUPTIBLE POWER SUPPLY (UPS)   |



**PUSH BUTTON NOTES**  
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.0
(YELLOW)	12	135	25	0.25	75.0
(GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN		84	35	0.05	
FLASHER	1	135	25	0.50	12.5
TOTAL =					453.7

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK (FT.) (m)	CABLE SLACK (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'-H-2' (6m)-0.6m=
E - M. ARM POLE	10 (3.0)	SIGNAL POST 2 (0.6)	BRACKET MOUNTED 13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB. 1 (0.3)	PED. PUSHBUTTON 4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC CAB. 13 (4.0)	ELECTRIC SERVICE 13.5 (4.1)
		ELECTRIC SERVICE 1 (0.3)	SERVICE TO GROUND 13.5 (4.1)
		GROUND CABLE 1 (0.3)	POST MOUNTED 6 (1.8)

ENERGY COST TO: Illinois Department of Transportation  
 Division of Highways / District 1  
 201 W Center Court/Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: Mr. Amador Velez  
 PHONE: 847-816-5248  
 COMPANY: ComEd



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		CABLE PLAN AND SCHEDULE OF QUANTITIES ILL. ROUTE 83 (MAIN ST.) ILL. ROUTE 173

SCALE: NONE  
 DATE: 1/30/09

DRAWN BY: RV  
 DESIGNED BY: RS  
 CHECKED BY: AZ

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