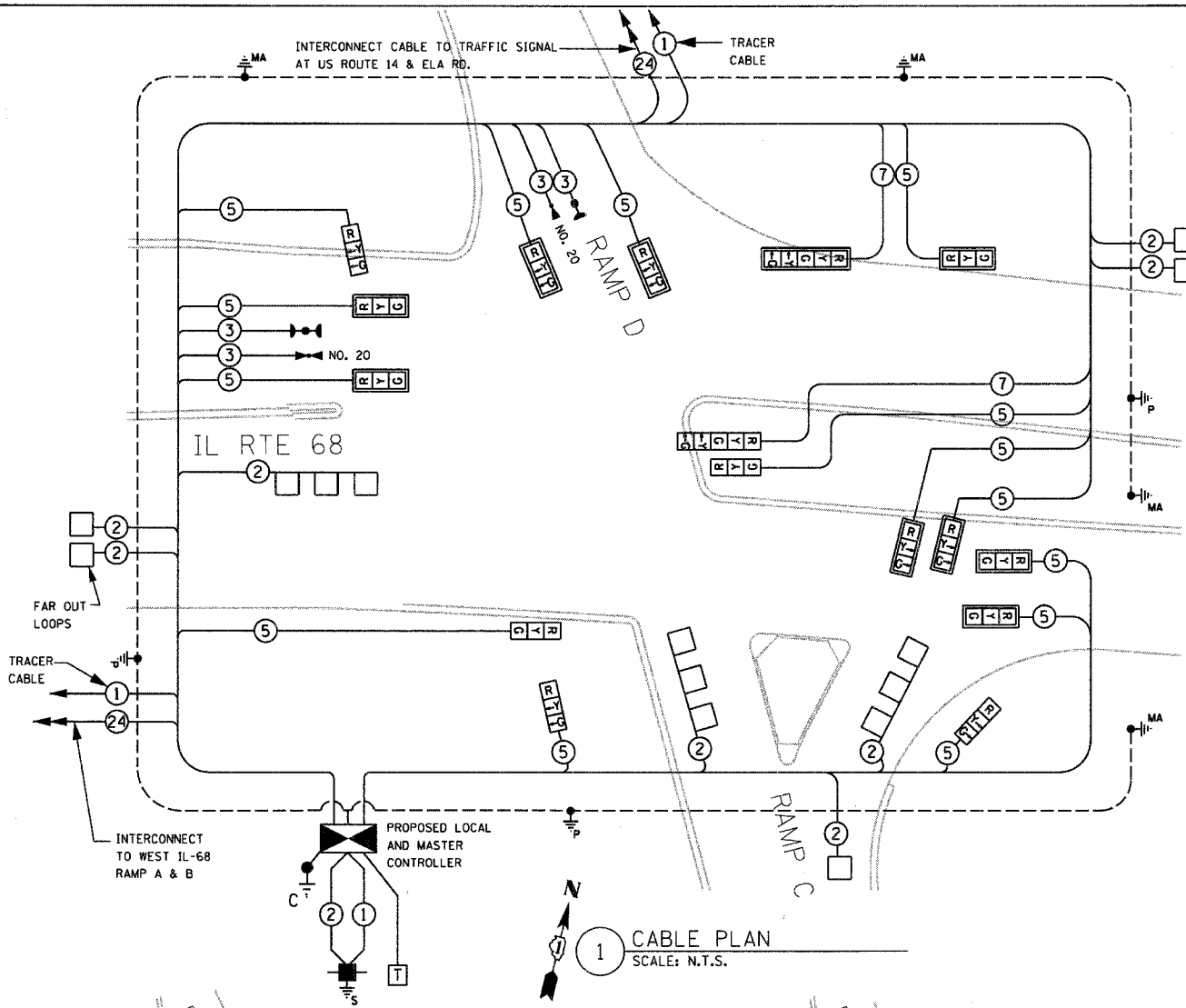
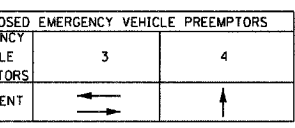
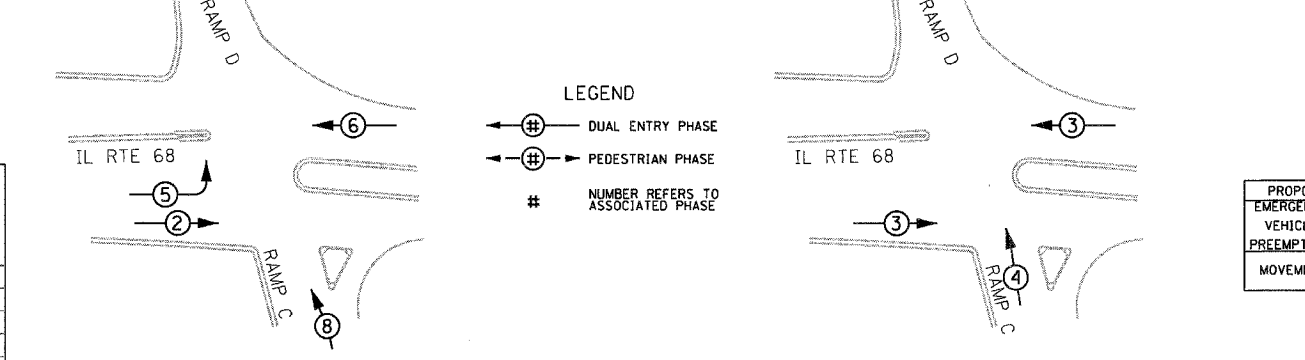


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	121
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
			* 700-Y-R & 70HB-R-1	62897

CABLE PLAN LEGEND		
EXIST.	PROP.	DESCRIPTION
G	G	8"(1200mm)TRAFFIC SIGNAL SECTION
R	R	12"(300mm)TRAFFIC SIGNAL SECTION
W	W	12"(300mm)PEDESTRIAN SIGNAL SECTION
P	P	12"(300mm)PEDESTRIAN SIGNAL SECTION
CB	CB	CONTROLLER CABINET
SI	SI	SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
VD	VD	VEHICLE DETECTOR, INDUCTION LOOP
VM	VM	VEHICLE DETECTOR, MAGNETIC
VDP	VDP	VEHICLE DETECTOR, PRIORITY (EMERG.)
CB	CB	CONFIRMATION BEACON
PB	PB	PUSHBUTTON DETECTOR
2		DENOTES NUMBER OF CONDUCTORS ALL CABLES NO. 14 AND SHIELDED EXCEPT AS INDICATED
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
TR	TR	SIGNAL FACE WITH BACKPLATE: RED YELLOW GREEN YELLOW LEFT GREEN LEFT "P" INDICATES PROGRAMMED HEAD
RC	RC	RAILROAD CONTROL CABINET
IL	IL	ILLUMINATED SIGN "NO LEFT TURN"
IR	IR	ILLUMINATED SIGN "NO RIGHT TURN"
HR	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH) OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION



SCHEDULE OF QUANTITIES - RAMPS C & D		
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ METER	2.32
HANDHOLE	EACH	4
HEAVY DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	7
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	172.9
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	87.2
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	35.7
CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	44.1
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	136.8
CONDUIT EMBEDDED IN STRUCTURE, 50MM DIA., PVC	METER	30.5
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	295.8
ELECTRIC CABLE IN TRENCH, SERVICE, NO. 6 2 C	METER	55
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	METER	712
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	METER	223.5
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	530.77
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.25 METER	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE 8.53 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 9.14 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 8.53 METER AND 16.46 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	3.6
CONCRETE FOUNDATION, TYPE D	METER	1.2
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	14.2
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	4.6
DETECTOR LOOP, PREFORMED	METER	190
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	METER	224.42
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C TWISTED SHIELDED	METER	224.48
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	252.4
SERVICE INSTALLATION, 100 AMP 120/240V	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 300MM X 300MM X 150MM	EACH	1

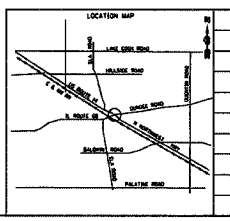


I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	L.E.D.		
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	9	135	25	0.25	56.25
(GREEN)	9	135	15	0.25	33.75
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.50	
TOTAL					347.6

ENERGY COST TO:  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG,  
ILLINOIS 60196-1096

ENERGY SUPPLY:  
CONTACT: JOHN STRZAK  
PHONE: 630-491-4363  
COMPANY: CmEd

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)
C - M.ARM, POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
30" (750MM)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
36" (900MM)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRICAL SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



REVISIONS	
NAME	DATE

TS-09 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION  
ILLINOIS ROUTE 68 AT U.S. ROUTE 14  
RAMPS C & D  
SCHEDULE OF QUANTITIES, CABLE PLAN AND  
PHASE DESIGNATION DIAGRAM

SCALE N.T.S. DRAWN BY R.P.J.  
DATE NOVEMBER 2006 DESIGNED BY D.S.  
CHECKED BY A.D.O.

Rick Johns  
 ID01 - District 01  
 02-05-ID01-STV-03 - IL 68 over US 14  
 P:02-05-ID01-STV-03 - IL 68 over US 14  
 11/27/2006 3:45:11 PM  
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