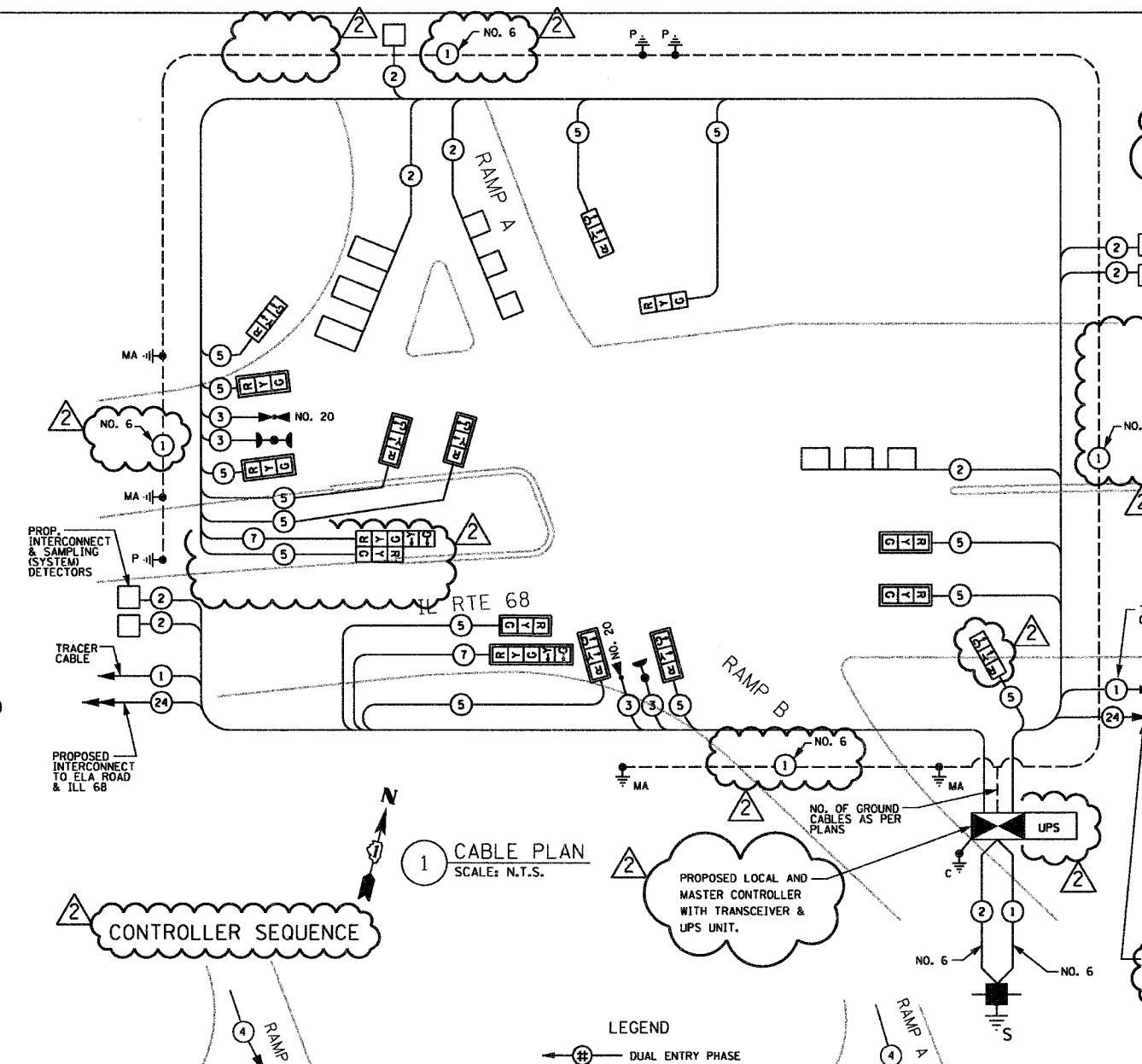


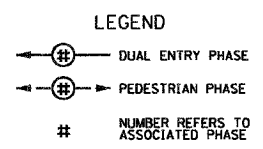
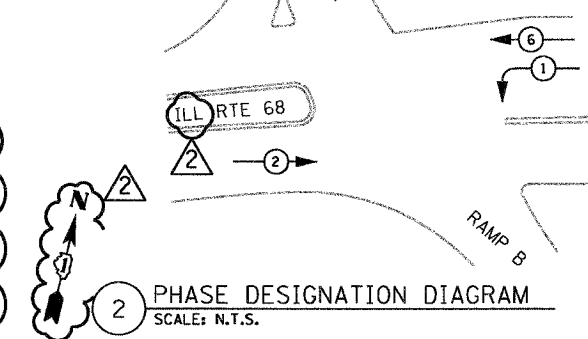
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	119
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		62897
		* T0D-Y-R & 70HD-R-1		

CABLE PLAN LEGEND		
EXIST.	PROP.	DESCRIPTION
G	R	8"(200mm) TRAFFIC SIGNAL SECTION
R	R	12"(300mm) TRAFFIC SIGNAL SECTION
W	W	12"(300mm) PEDESTRIAN SIGNAL SECTION
P	P	12"(300mm) PEDESTRIAN SIGNAL SECTION
☐	☐	CONTROLLER CABINET
☐	☐	SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
☐	☐	VEHICLE DETECTOR, INDUCTION LOOP
☐	☐	VEHICLE DETECTOR, MAGNETIC
☐	☐	EMERGENCY VEHICLE LIGHT DETECTOR
☐	☐	CONFIRMATION BEACON
☐	☐	PUSHBUTTON DETECTOR
②	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-MM IZF SM12P
RY	RY	SIGNAL FACE WITH BACKPLATE: RED YELLOW GREEN YELLOW LEFT GREEN LEFT "P" INDICATES PROGRAMMED HEAD
E	E	RAILROAD CONTROL CABINET
E	E	ILLUMINATED SIGN "NO LEFT TURN"
E	E	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C) ARM POLE (MA)
P	P	GROUND ROD AT POST (P) OR MAST
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
UPS	UPS	UNINTERRUPTIBLE POWER SUPPLY



TRAFFIC SIGNALS QUANTITIES		
ITEM	UNIT	ILL 68 RAMP A&B
SIGN PANEL - TYPE 2	SQ METER	4.64
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV 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	141.6
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	43.2
CONDUIT IN TRENCH, 75MM DIA., GALVANIZED STEEL	METER	3.6
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	120.8
CONDUIT EMBEDDED IN STRUCTURE, 65MM DIA., PVC	METER	74.5
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	195.4
ELECTRIC CABLE IN TRENCH, SERVICE, NO. 6 2 C	METER	13
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	925
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	189
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	526
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.25 METER	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 8.53 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 10.97 METER AND 6.09 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 16.46 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	3.6
CONCRETE FOUNDATION, TYPE C	METER	1.2
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	10.1
DETECTOR LOOP, PREFORMED	METER	201
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	METER	150.3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C TWISTED SHIELDED	METER	150.6
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	195
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	8.6
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
SIGNAL HEAD LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD LED, 2-FACE 1 3-SECTION, 1 5-SECTION, BRACKET	EACH	1
SIGNAL HEAD LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.80 METER	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)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	252	-	0.05	-
FLASHER	-	-	-	0.50	-
TOTAL					400.8



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)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2= (6m+L-0.6m)
E - 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)

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

ENERGY SUPPLY:
CONTACT: JOHN STRIZAK
PHONE: 630-491-4363
COMPANY: ComEd

REV 2-15-07

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

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

Rick Johns
 District 01
 1001 S. 1st St.
 P.O. Box 19000
 St. Louis, MO 63119
 27/15/2007