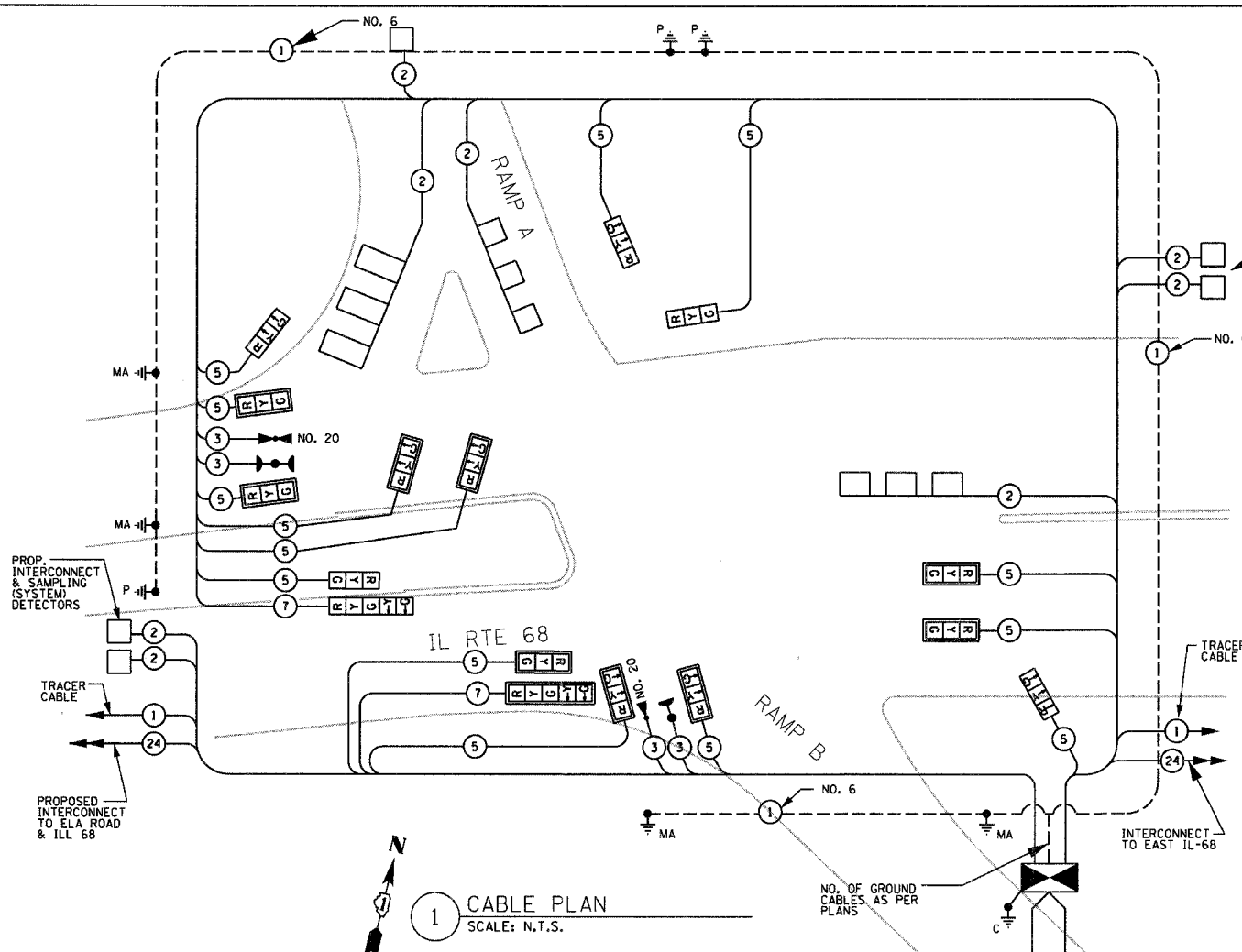


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	119
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		* 700-Y-R & 70HB-R-1 62897		

CABLE PLAN LEGEND

EXIST.	PROP.	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		VEHICLE DETECTOR, MAGNETIC
		VEHICLE DETECTOR, PRIORITY (EMERG.)
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
DENOTES NUMBER OF CONDUCTORS ALL CABLES NO. 14 AND SHIELDED EXCEPT AS INDICATED		
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
SIGNAL FACE WITH BACKPLATE: RED YELLOW GREEN YELLOW LEFT GREEN LEFT "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



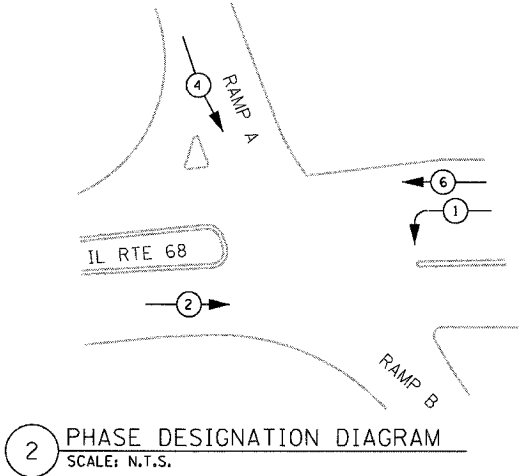
THE END OF TRACER CABLE SHALL BE CONTINUOUS & EXTENDED TO CONTROLLER CABINET

SCHEDULE OF QUANTITIES - RAMPS A & B

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ METER	2.32
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	153.8
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	36.8
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	7
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	120.2
CONDUIT EMBEDDED IN STRUCTURE, 60MM DIA., PVC	METER	58.4
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	197.4
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	525
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.25 METER	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE 8.93 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 10.97 METER AND 6.09 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.80 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 18.48 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	3.8
CONCRETE FOUNDATION, TYPE D	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, NO. 20 3/C TWISTED SHIELDED	METER	150.6
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	196
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	8.6
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, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
JUNCTION BOX, NON-METALIC, EMBEDDED IN STRUCTURE, 300MM X 300MM X 150MM	EACH	3

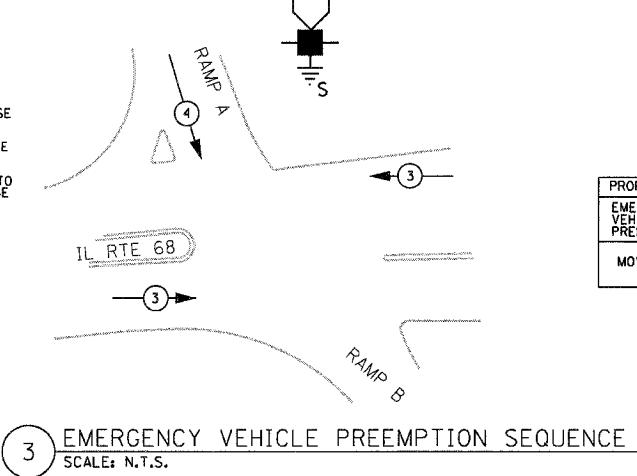
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	% OPERATION	TOTAL WATTAGE
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



LEGEND

	DUAL ENTRY PHASE
	PEDESTRIAN PHASE
	NUMBER REFERS TO ASSOCIATED PHASE



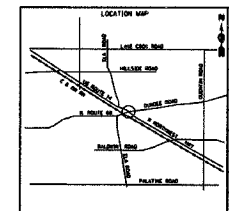
PROPOSED EMERGENCY VEHICLE PREEMPTIONS

EMERGENCY VEHICLE PREEMPTIONS	3	4
MOVEMENT	←	↓

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

ENERGY SUPPLY:
CONTACT: JOHN STRTZAK
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- 07 OF 13

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.
DESIGNED BY D.S.
DATE NOVEMBER 2006 CHECKED BY A.D.O.

Rick Johns - District 01
 IDOT - District 03 - IL 68 over US 14
 P:\02-05-IDOT-STV-03 - IL 68 over US 14\Working Files\Drawings\Files\Shi\E-TS-07 - Cable Diagram - West.dgn
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