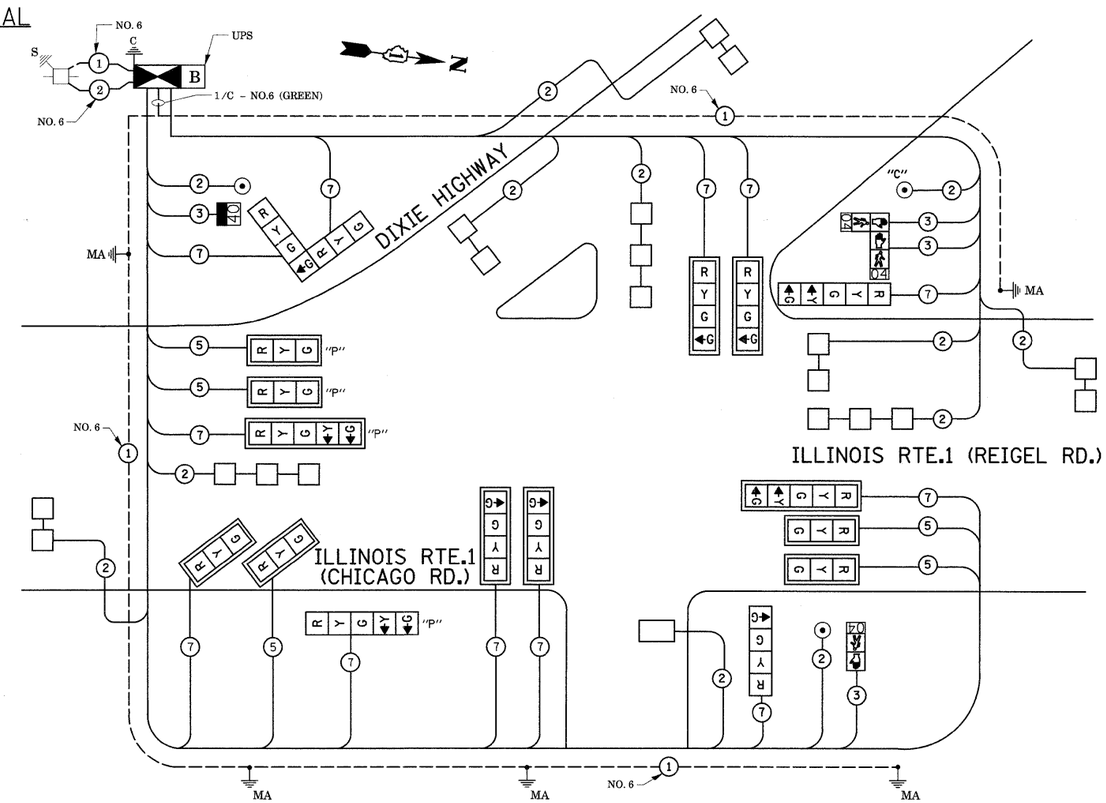
CABLE PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
RAILROAD CONTROL CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	P	P
TELEPHONE CONNECTION	T	T
GROUND ROD AT (C) CONTROLLER, (H)HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE	C	C
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED	24	24
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED	2	2
GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)	1	1
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD	R Y G Y G "P"	R Y G Y G "P"
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G
12" (300mm) TRAFFIC SIGNAL SECTION	R	R
12" (300mm) PEDESTRIAN SIGNAL SECTION		OR DW W
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		
PUSHBUTTON DETECTOR		
DETECTOR LOOP		
PREFORMED DETECTOR LOOP		
MICROWAVE VEHICLE SENSOR	M	M
VIDEO DETECTOR	V	V
CLOSED CIRCUT TV	C	C
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
UNINTERRUPTIBLE POWER SUPPLY	B	

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONRETE SIDEWALK 5 INCH	SQ FT	456
COMBINATION CURB AND GUTTER REMOVAL	FOOT	30
DETECTABLE WARNINGS	SQ FT	120
SIGN PANEL-TYPE I	SQ FT	15
SIGN PANEL-TYPE II	SQ FT	27.50
THERMOPLASTIC PAVEMENT MARKING LINE 12"	FOOT	389
THERMOPLASTIC PAVEMENT MARKING LINE 24"	FOOT	131
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	140
THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS	SQ FT	400
CONDUIT TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	526
CONDUIT TRENCH, 2½" DIA., GALVANIZED STEEL	FOOT	44
CONDUIT TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	94
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	285
CONDUIT PUSHED, 2½" DIA., GALVANIZED STEEL	FOOT	67
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	80
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	216
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	617
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET(SPECIAL)	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	640
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	894
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1456
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2550
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	2100
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	87
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1146
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIA.	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIA.	FOOT	45
SIGNAL HEAD, L.E.D. 1-FACE, 3 SECTION, MAST ARM MOUNTED.	EACH	6
SIGNAL HEAD, L.E.D. 1-FACE, 4 SECTION, MAST ARM MOUNTED.	EACH	4
SIGNAL HEAD, L.E.D. 1-FACE, 5 SECTION, MAST ARM MOUNTED.	EACH	1
SIGNAL HEAD, L.E.D. 1-FACE, 1-4 SECT, BRACKET MOUNTED.	EACH	1
SIGNAL HEAD, L.E.D. 1-FACE, 1-5 SECT, BRACKET MOUNTED.	EACH	2
SIGNAL HEAD, L.E.D. 2-FACE, 1-3 SECT, 1-4 SECT BRACKET MOUNTED.	EACH	1
SIGNAL HEAD, OPTICALLY PROGRAMMED, L.E.D., 3 SECT, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, OPTICALLY PROGRAMMED, L.E.D., 5 SECT, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, OPTICALLY PROGRAMMED, L.E.D., 5 SECT, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET. MOUNTED. with COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET. MOUNTED. with COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP TYPE I	FOOT	683
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1840
PEDESTRIAN PUSH-BUTTON	EACH	3
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
REMOVE EXISTING HANDHOLE	EACH	7
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1

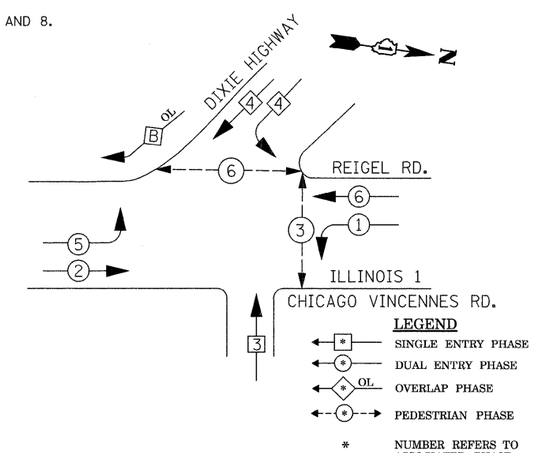


CABLE PLAN

NOTE:

PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5



PHASE DESIGNATION DIAGRAM

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS ×	WATTAGE INCAND.	WATTAGE LED	× %OPERATION	
SIGNAL (RED)	17		17	0.50	144.50
(YELLOW)	17		25	0.25	106.25
(GREEN)	17		15	0.25	63.75
ARROW	18		12	0.10	21.60
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN				0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	536.10

ILLINOIS DEPARTMENT OF TRANSPORTATION

ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: COM. EDISON

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=	
E - M. ARM POLE			SIGNAL POST	2	(1.0)		(6m+L-0.6m)=	
24" (600mm)	10	(3.0)	CONTROLLER CAB.	1	(0.5)	BRACKET MOUNTED	13	(4.0)
30" (750mm)	15	(4.6)	FIBER OPTIC	13	(4.0)	PED. PUSHBUTTON	4	(1.2)
36" (900mm)	15	(4.6)	ELECTRIC SERVICE	1	(0.5)	ELECTRIC SERVICE	13.5	(4.1)
			GROUND CABLE	1	(0.5)	SERVICE TO GROUND	13.5	(4.1)
						POST MOUNTED	6	(1.8)

FILE NAME = c:\pw_work\pwidot\nguyensm\d0117709\Robs-TS.dgn	USER NAME = nguyensm	DESIGNED - STEVEN N./JOE E./BRENDA K.	REVISED -
		DRAWN - STEVEN N./BRENDA K.	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JOE E.	REVISED -
	PLOT DATE = 3/19/2009	DATE - 3/15/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CABLE PLAN
IL. RTE. 1 @ DIXIE HIGHWAY

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353/876	2009-033 TS	COOK	49	44
		CONTRACT NO. 60640		

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT