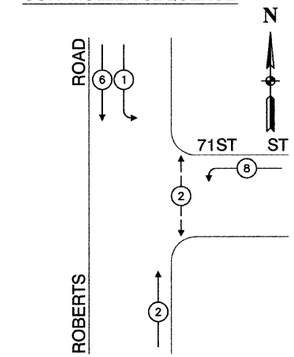
CONTROLLER SEQUENCE

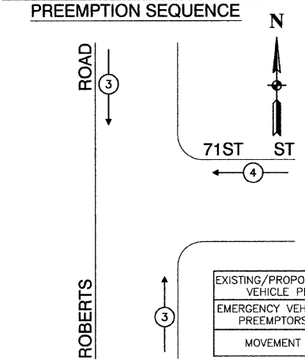


LEGEND

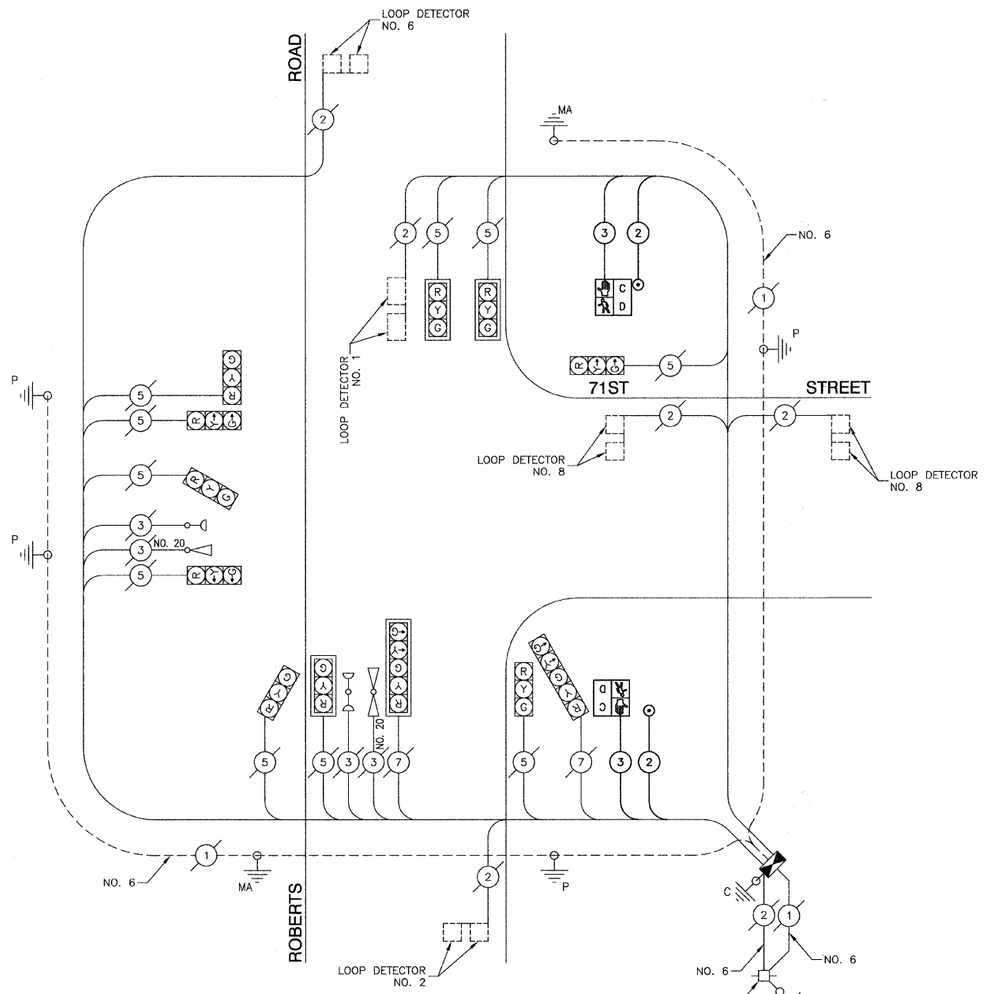
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

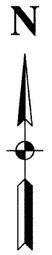


EXISTING/PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓↑	←



CABLE PLAN

NOT TO SCALE



CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" TRAFFIC SIGNAL SECTION
R	R	12" TRAFFIC SIGNAL SECTION
W	W	12" PEDESTRIAN SIGNAL SECTION
	C D	12" PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		CONTROLLER CABINET
	B	UNINTERRUPTIBLE POWER SUPPLY
		SERVICE INSTALLATION
	T	TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
"P"	"P"	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
"E"		RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN, FIBOR OPTRIC "NO LEFT TURN"
"E"		ILLUMINATED SIGN, FIBOR OPTRIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	x %OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	4		12	0.10	5
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
ILLUM. SIGN					
FLASHER				0.50	
				TOTAL =	377

FOUNDATION (DEPTH)	FT.	(m)
TYPE A – POST	4	(1.2)
D – CONTROLLER	4	(1.2)
E – M. ARM POLE		
24" (600mm)	10	(3.0)
30" (750mm)	15	(4.6)

CABLE SLACK	FT.	(m)
HANDHOLE	6.5	(2.0)
DOUBLE HANDHOLE	13	(4.0)
SIGNAL POST	2	(1.0)
CONTROLLER CAB.	1	(0.5)
FIBER OPTIC	13	(4.0)
ELECTRIC SERVICE	1	(0.5)
GROUND CABLE	1	(0.5)

VERTICAL	FT.	(m)
ALL FOUNDATIONS	3.5	(1.0)
MAST ARM (L) POLE	20'+L-2= (6m+L-0.6m)=	
BRACKET MOUNTED	1.3	(4.0)
PED. PUSHBUTTON	4	(1.2)
ELECTRIC SERVICE	13.5	(4.1)
SERVICE TO GROUND	13.5	(4.1)
POST MOUNTED	6	(1.8)

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUAN
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	217
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	217
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, WITH COUNTDOWN TIMERS, BRACKET MOUNTED	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	5
PEDESTRIAN PUSH BUTTON	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
DETECTOR LOOP, TYPE I	FOOT	103

NOTE:
THE PURPOSE OF THIS PLAN IS FOR THE ADDITION OF PEDESTRIAN TRAFFIC SIGNALS. ALL OTHER EQUIPMENT IS EXISTING.

FILE NAME = 09291-CBLE-PLAN-01 - P01

USER NAME =	DESIGNED — RJW	REVISED —	
	CHECKED — RJW	REVISED —	
PLOT SCALE =	DRAWN — PS	REVISED —	
PLOT DATE = 08-20-09	CHECKED — AG	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK IMPROVEMENTS
ROBERTS ROAD & 71ST STREET
TRAFFIC SIGNAL CABLE PLAN

SCALE: NONE | SHEET NO. 17 OF 35 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2757/1537	09-00060-00-SW	COOK	35	17
		CONTRACT NO. 63228		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-9003(325)		