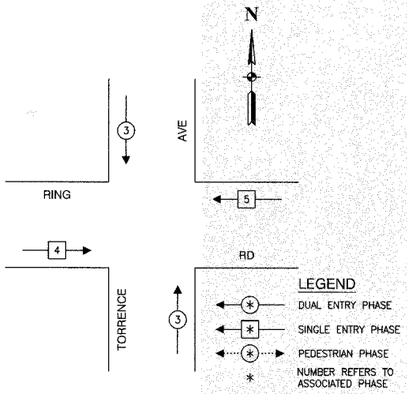
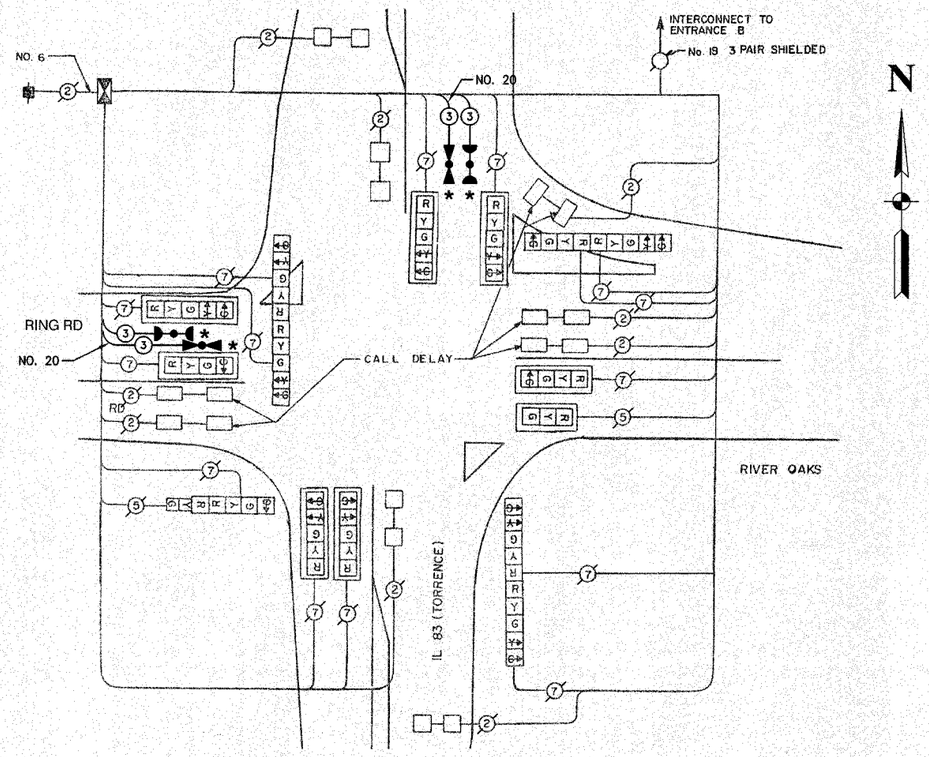
F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	052
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↑ ↓	→	←



SEQUENCE OF OPERATIONS

MOVEMENT																																	
PHASE	1+5						1+6							2+5								2+6			4				8					
INTERVAL	1	2	3	4	5	6	7	8A	8B	9A	9B	10	11A	11B	12	13A	13B	14A	14B	15	16A	16B	17A	17B	18	19A	19B	20A	20B	21	22A	22B	23A	23B	24	25A	25B	26A	26B	27A	27B	FLASH
CHANGE TO		1+6	2+5	2+6	4	8		1+5		2+5 4		2+6	8			1+5		1+6		2+6	4		8			4		8			1+5 1+6 8		2+5 2+6			1+5 2+5		1+6 2+6		4		
IL 83 N/B NEAR RIGHT AND MID MOUNT MAST ARM SIGNALS	R	R	R	R	R	R	G	Y	R	Y	R	G	Y G	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y G	R G	R	R	R	R	R G	R	R	R G	R	R G	Y	R	R
IL 83 N/B FAR LEFT AND END MOUNT MAST ARM SIGNALS	R	R	R	R	R	R	G	Y	R	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL 83 S/B NEAR RIGHT AND MID MOUNT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	G	Y G	R G	Y	R	G	Y G	R G	Y	R	R G	R Y	R	R G	R G	R	R	R	R	R	R	R	R	R
IL 83 S/B FAR LEFT AND END MOUNT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	G	Y	R	Y	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
RING RD ENTR A E/B NEAR RIGHT AND MID MOUNT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R
RING RD ENTR A E/B FAR LEFT AND END MOUNT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	Y	R	Y	R	R	R	R	R	R	R	R	R
RIVER OAKS ENTR A W/B NEAR RIGHT AND MID MOUNT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	Y	R	R
RIVER OAKS ENTR A W/B FAR LEFT AND END MOUNT MAST ARM SIDINGS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	Y	R	R

Phases 2 and 6 are to be volume density type

Phase 2+6 cannot clear to 1+5, 1+6, or 2+5

Single entry type traffic single controller shall not be used

Left turn phases to have non-locking memory

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	376
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	376

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" TRAFFIC SIGNAL SECTION
R	R	12" TRAFFIC SIGNAL SECTION
W	W	12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	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

NOTE

★1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CITY OF CALUMET CITY
LOCATION NO. 17

★PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
★ ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
TORRENCE AVENUE & RING ROAD

SCALE: VERT. HORIZ. DRAWN BY

DATE CHECKED BY

ROBINSON ENGINEERING, LTD.
17200 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 331-6700 FAX (708) 331-3828
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

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