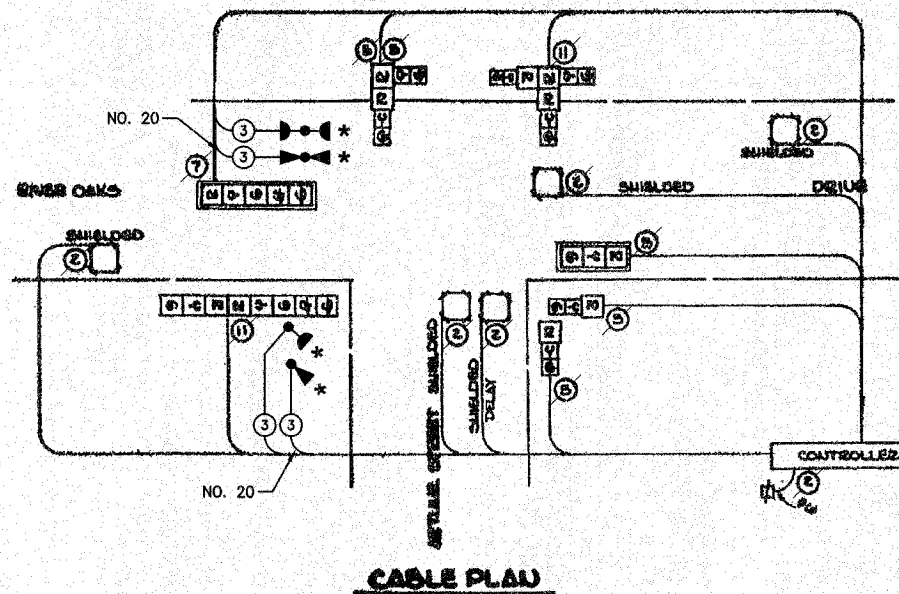


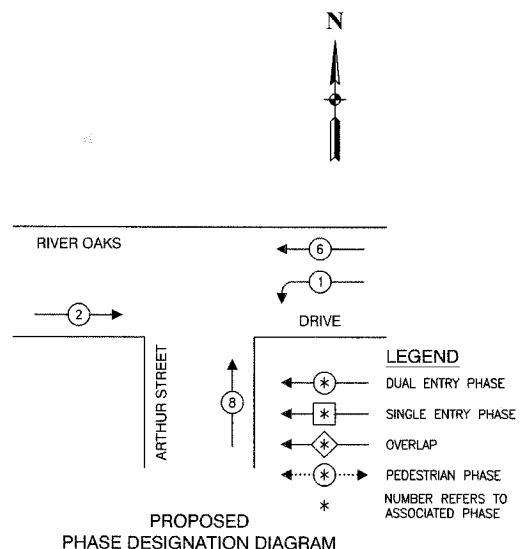
F. A. SEC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	078
STA.		TO STA.		
FED. ROAD DIST. NO.	ALINDS	FED. AID PROJECT		

CONTRACT NO. 63003



CABLE PLAN

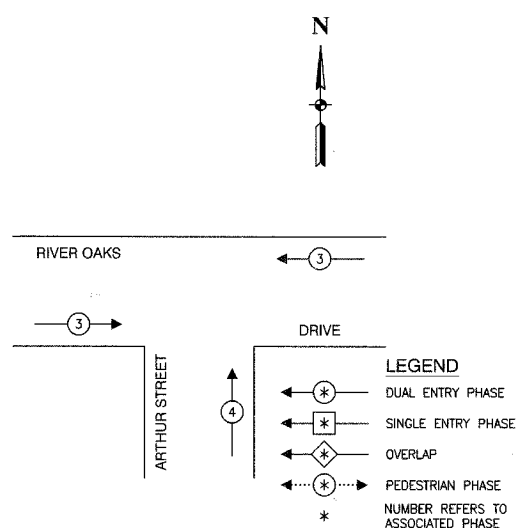
EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR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



LEGEND

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

PROPOSED PHASE DESIGNATION DIAGRAM



LEGEND

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

NOTE: ALL RED CLEARANCE TO BE PROVIDED FOR ALL PHASES EXISTING

SEQUENCE OF OPERATION					
Phase	A	B	C	FLASH	
Movement	←	→	↑		
Change to	←	→	↑	←	→
Interval	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7
WB. River Oaks Drive (M.A., FL.)	←	→	↑	←	→

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	366
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	2
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	15
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	366
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1

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.

\* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08
ADDED 18" SIGNAL POST	
ADDED NEW CONTROLLER	

CITY OF CALUMET CITY  
 LOCATION NO. 30

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES  
 RIVER OAKS DRIVE & ARTHUR STREET

SCALE: VERT. \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 HORIZ. \_\_\_\_\_ CHECKED BY \_\_\_\_\_  
 DATE \_\_\_\_\_

ROBINSON ENGINEERING, LTD.  
 17005 SOUTH PARK AVENUE BOUTH HOLLAND, ILLINOIS 60473  
 (708) 331-4700 FAX (708) 331-3822  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184061-26