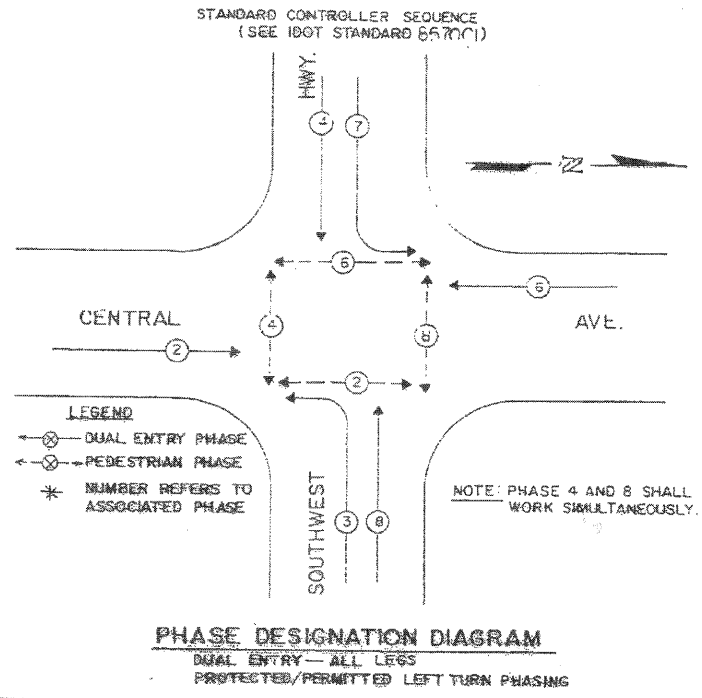


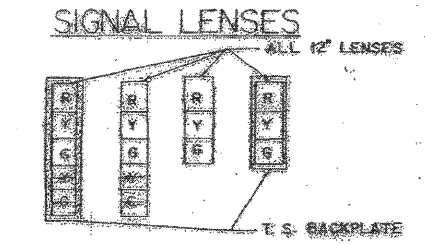
CABLE PLAN
NO SCALE



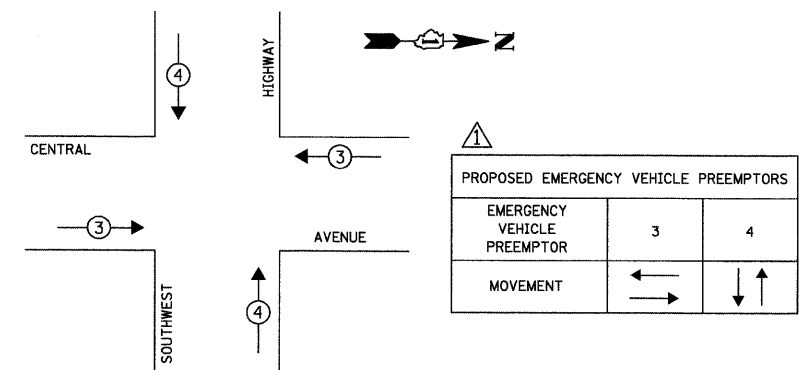
PHASE DESIGNATION DIAGRAM
DUAL ENTRY - ALL LESS PROTECTED/PERMITTED LEFT TURN PHASING

- CABLE PLAN LEGEND**
- [R] 12" TRAFFIC SIGNAL SECTION
 - [C] CONTROLLER CABINET
 - [S] SERVICE INSTALLATION
 - [D] VEHICLE DETECTOR, INDUCTION LOOP
 - (2) DENOTES NUMBER OF CONDUCTORS NEEDED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
 - [R Y G W] 12" SECTION SIGNAL FACE WITH BACKPLATE
 - [P] PEDESTRIAN PUSHBUTTON DETECTOR
 - [W] 12" PEDESTRIAN SIGNAL SECTION
 - [G] GROUNDING SYSTEM CONNECTION
 - [S] SHIELDED & TWISTED
 - [A] EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON

- SIGNAL LENSES**
- R RED
 - Y YELLOW
 - G GREEN
 - Y+ YELLOW TURN INDICATOR
 - G+ GREEN TURN INDICATOR



EMERGENCY VEHICLE PREEMPTION SEQUENCE



CARE IS TO BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGE TO THE EXISTING TRAFFIC SIGNAL CONDUIT, DETECTORS, AND EQUIPMENT. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED CONDUIT OR EQUIPMENT AT NO COST TO THE COUNTY OR VILLAGE.

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	315
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	315
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION
CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

ENERGY COSTS TO:

TYPE	NO. OF LAMPS	WATTAGE	LED % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135	0.50	1080.00
(YELLOW)	16	135	0.25	540.00
(GREEN)	16	135	0.25	540.00
ARROW	8	135	0.10	108.00
PED. SIGNAL	8	90	1.00	720.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	292	0.05	-
FLASHER	-	-	0.50	-
TOTAL =				3088.00

COOK COUNTY HIGHWAY DEPARTMENT
69 WEST WASHINGTON ROOM 2139
CHICAGO, ILLINOIS 60602-3134
ENERGY SUPPLY CONTACT:
PHONE:
COMPANY:

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	20'4"-2"
E - M. ARM POLE	10 (3.0)	SIGNAL POST	2 (0.6)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

UPDATED BY CCHD 9/97
UPDATED BY CCHD 7/97

COUNTY OF COOK
DEPARTMENT OF HIGHWAYS
MCDONOUGH ASSOCIATES, INC.
ENGINEERS ARCHITECTS
CABLE PLAN, BILL OF MATERIALS AND PHASE DESIGNATION DIAGRAM
CENTRAL AVENUE AT SOUTHWEST HWY.
CONTRACT NO. 63087
DATE: 9/97
BY: C.B.B.
CHECKED: R.K.T.
DATE: 9/97