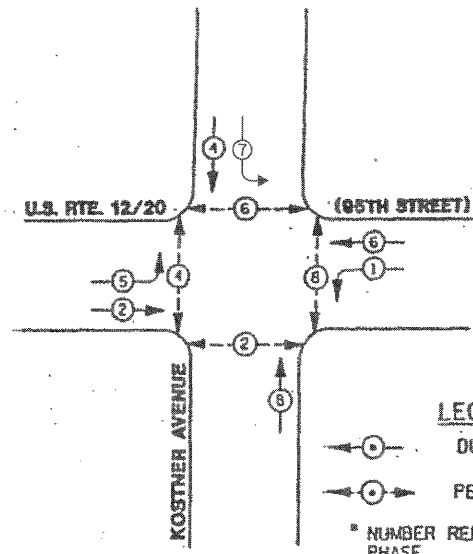


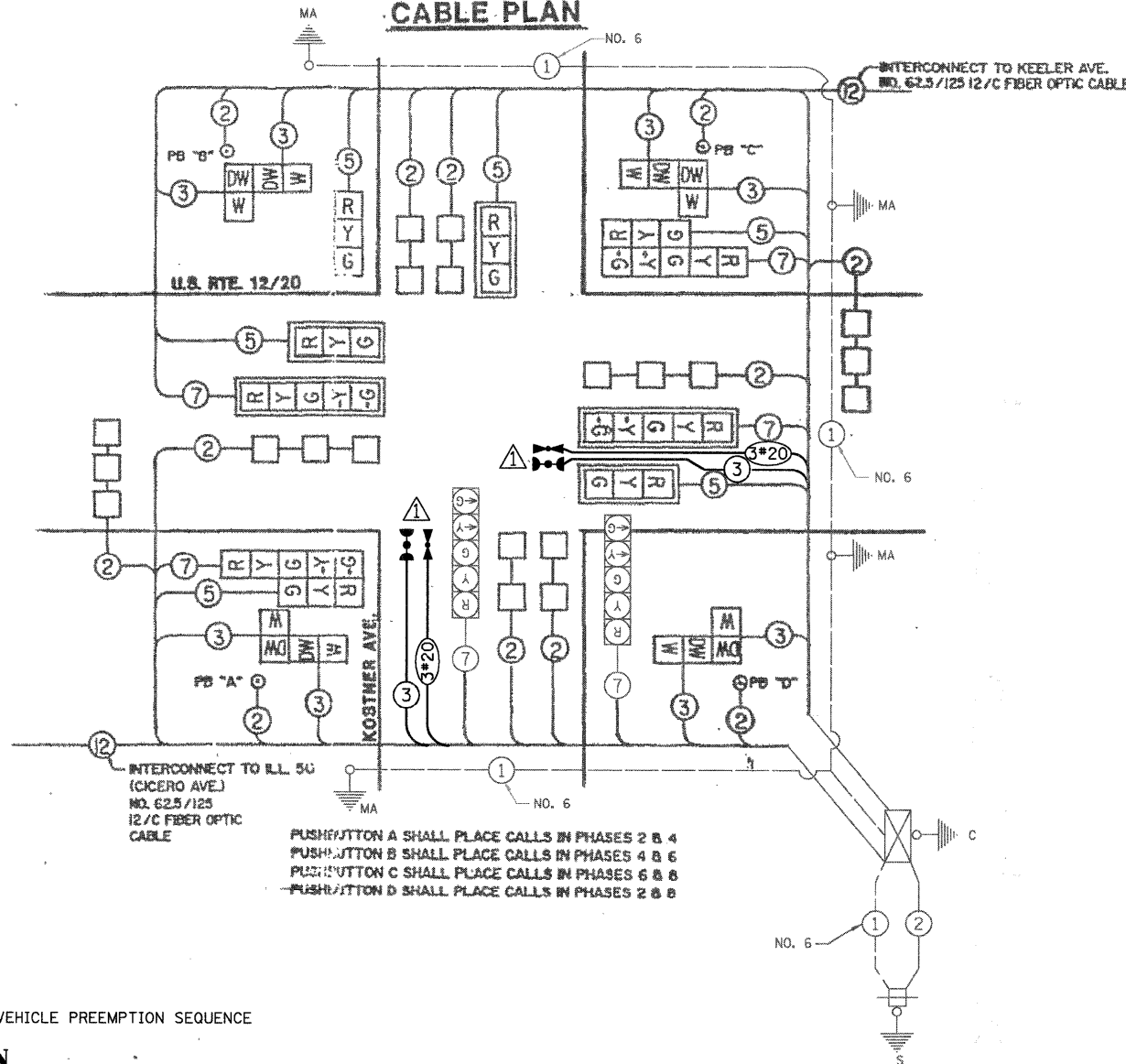
CONTROLLER SEQUENCE IV
 REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



LEGEND
 ○ DUAL ENTRY PHASE
 ○ PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

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

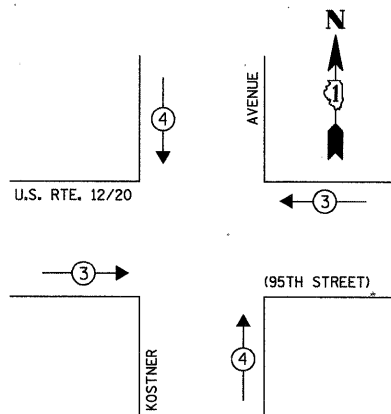
CABLE PLAN



- EXISTING PLAN LEGEND**
- ⊠ 8" TRAFFIC SIGNAL SECTION
 - ⊠ 12" TRAFFIC SIGNAL SECTION
 - ⊠ 12" PEDESTRIAN SIGNAL SECTION
 - ⊠ CONTROLLER CABINET
 - ⊠ SERVICE INSTALLATION
 - ⊠ VEHICLE DETECTOR, INDUCTION LOOP
 - ⊠ PUSHBUTTON DETECTOR
 - ② (NUMBER) NUMBER OF CONDUCTORS (NEW)
 - ② ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 24 EXCEPT AS INDICATED.
 - ② INDICATES EXISTING CABLE
 - ⊠ SIGNAL FACE WITH BACKPLATE
 - "P" INDICATES PROGRAMMED
 - "L" INDICATES LOWERED
 - ⊠ EXISTING SIGNAL SECTION
 - ⊠ MAGNETIC DETECTOR
 - ⊠ OPTICAL DETECTOR
 - ⊠ EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON

PUSHBUTTON A SHALL PLACE CALLS IN PHASES 2 & 4
 PUSHBUTTON B SHALL PLACE CALLS IN PHASES 4 & 6
 PUSHBUTTON C SHALL PLACE CALLS IN PHASES 6 & 8
 PUSHBUTTON D SHALL PLACE CALLS IN PHASES 2 & 8

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

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 SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	232
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	232
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "3M OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		X INCAND.	X LED		
SIGNAL (RED)	12	135		0.50	810.00
(YELLOW)	12	135		0.25	405.00
(GREEN)	12	135		0.25	405.00
ARROW	12	135		0.10	162.00
PED. SIGNAL	8	90		1.00	720.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN	-	252		0.05	-

ENERGY COSTS TO: TOTAL = 2602.00
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MILTON RAY
 PHONE: (708) 235-2315
 COMPANY: COMED

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'+HL-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)

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

DEPARTMENT OF TRANSPORTATION
U.S. RTE. 12/20 (95TH STREET)
CONTROLLER SEQUENCE IV
CABLE PLAN
SCHEDULE OF QUANTITIES
 U.S. 12/20 @ KOSTNER AVENUE
 DATE: 10/13/93
 DRAWN BY: CJB
 CHECKED BY: RBC

REVISIONS

NAME	DATE
CBBEL	3/20/08