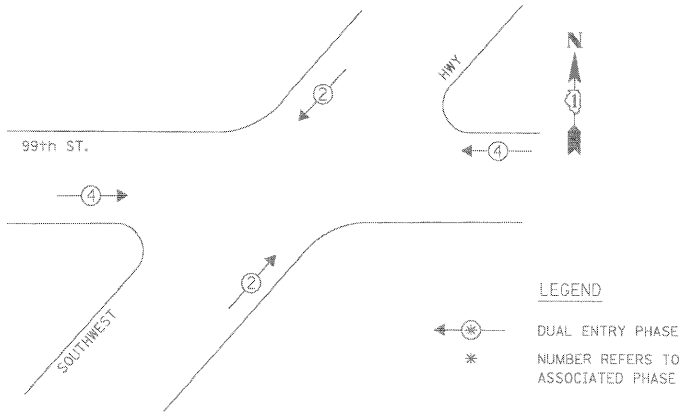
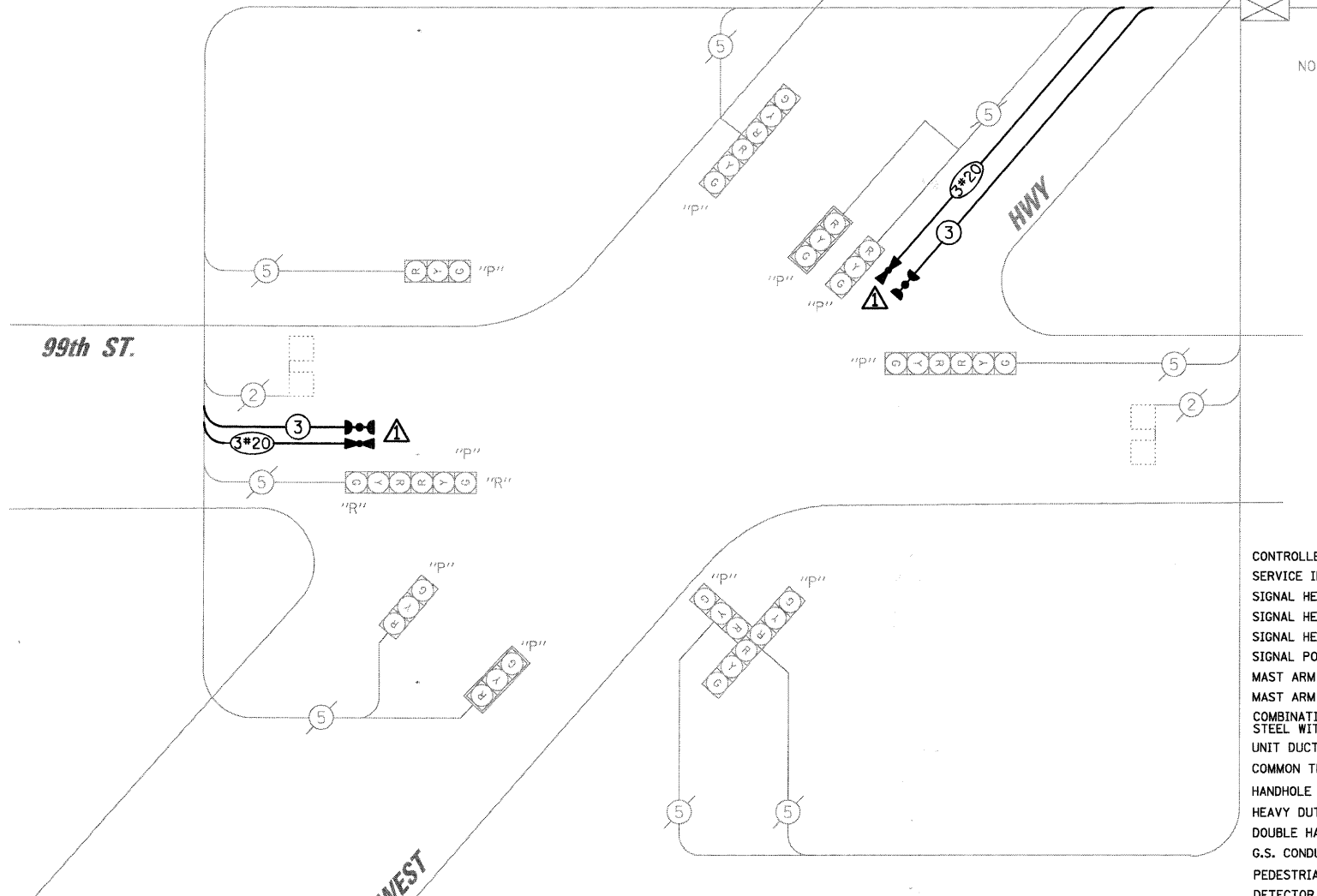


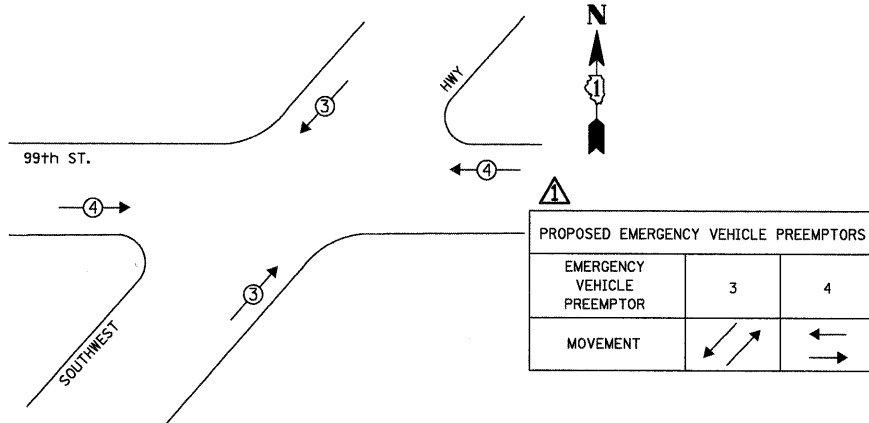
EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET	⊠	⊠
SERVICE INSTALLATION	⊠	⊠
SIGNAL HEAD	⊠	⊠
SIGNAL HEAD WITH BACKPLATE	⊠	⊠
SIGNAL HEAD, PEDESTRIAN	⊠	⊠
SIGNAL POST	⊠	⊠
MAST ARM ASSEMBLY AND POLE, STEEL	⊠	⊠
MAST ARM ASSEMBLY AND POLE, ALUMINUM	⊠	⊠
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	⊠	⊠
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE	⊠	⊠
HEAVY DUTY HANDHOLE	⊠	⊠
DOUBLE HANDHOLE	⊠	⊠
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	⊠	⊠
PEDESTRIAN PUSHBUTTON DETECTOR	⊠	⊠
DETECTOR LOOP	⊠	⊠
CAST IRON JUNCTION BOX	⊠	⊠
EMERGENCY VEHICLE LIGHT DETECTOR	⊠	⊠
CONFIRMATION BEACON	⊠	⊠
SIGNAL HEAD OPTICALLY PROGRAMMED	⊠	⊠
CONDUIT SPLICE	⊠	⊠
WOOD POLE	⊠	⊠
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	⊠	⊠
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	⊠	⊠
RAILROAD CONTROL CABINET	⊠	⊠
TELEPHONE CONNECTION	⊠	⊠
ILLUMINATED SIGN "NO LEFT TURN"	⊠	⊠
ILLUMINATED SIGN "NO RIGHT TURN"	⊠	⊠
EMERGENCY VEHICLE LIGHT DETECTOR	⊠	⊠
CONFIRMATION BEACON	⊠	⊠
"R" RELOCATED	⊠	⊠

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	440
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	440
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1

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.

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED	% OPERATION	
SIGNAL (RED)	14	135		0.50	945.00
(YELLOW)	14	135		0.25	472.50
(GREEN)	14	135		0.25	472.50
ARROW	-	135		0.10	-
PED. SIGNAL	-	90		1.00	-
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN		252		0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 1990.0

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 (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)

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

NO.	DATE	NATURE OF REVISION	CHKD.
6-27-08		INSTALLATION OF EMERGENCY VEHICLE PREEMPTION	

DSGN.	MJT	DATE:	11/10/2008
DWN.	MKW	SCALE:	1" = 20'
CHKD.	MJT		

TITLE: **SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**
 SOUTHWEST HIGHWAY AND 99TH STREET
 OAK LAWN, ILLINOIS

PROJECT NO.	080363
SHEET	44 OF 48
DRAWING NO.	

N:\OakLawn\080363\Traffic\VEPP_Swhwy-99th.dgn