

SIGNAL DISPLAY CHART

SIGNAL HEAD	#1 + #5		#1 + #6		#2 + #5		#2 + #6		#4 + #8		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	G/R	R/R	R/R	R/R	G/G	G/G	G/G	Y/R	R/R	R/R	Y
B	R	R	R	R	G	G	G	Y	R	R	Y
C	G/R	R/R	R/R	R/R	G/G	G/G	G/G	Y/R	R/R	R/R	Y
D	R	R	R	R	G	G	G	Y	R	R	Y
E	R	R	R	R	R	R	R	R	R	R	R
F	R	R	R	R	R	R	R	R	R	R	R
G	R	R	R	R	R	R	R	R	R	R	R
H	R	R	R	R	R	R	R	R	R	R	R
W-W	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
X-X	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Y-Y	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Z-Z	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

- NOTES: ① REMAINS G/R #2 + #5 IS NEXT
 ② REMAINS G/R #1 + #6 IS NEXT
 ③ REMAINS R/G #1 + #6 IS NEXT

COORDINATION TIMING

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	85 SEC.	90 SEC.	95 SEC.
PHASE 1 SPLIT	19%	21%	20%
PHASE 2 SPLIT	48%	46%	45%
PHASE 4 SPLIT	33%	33%	35%
PHASE 5 SPLIT	19%	21%	20%
PHASE 6 SPLIT	48%	46%	45%
PHASE 8 SPLIT	33%	33%	35%
PERMISSIVE	5%	5%	5%
OFFSET	100%	100%	100%
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

- NOTES: 1. PHASE SPLITS SHALL INCLUDE ALL GREEN PLUS YELLOW & ALL RED
 2. PERMISSIVES SHALL START AT THE ZERO POINT OF THE CYCLE
 3. OFFSETS SHALL BE REFERENCED TO THE BEGINNING OF PHASE 2 & 6 YELLOW

LOOP DETECTOR CHART

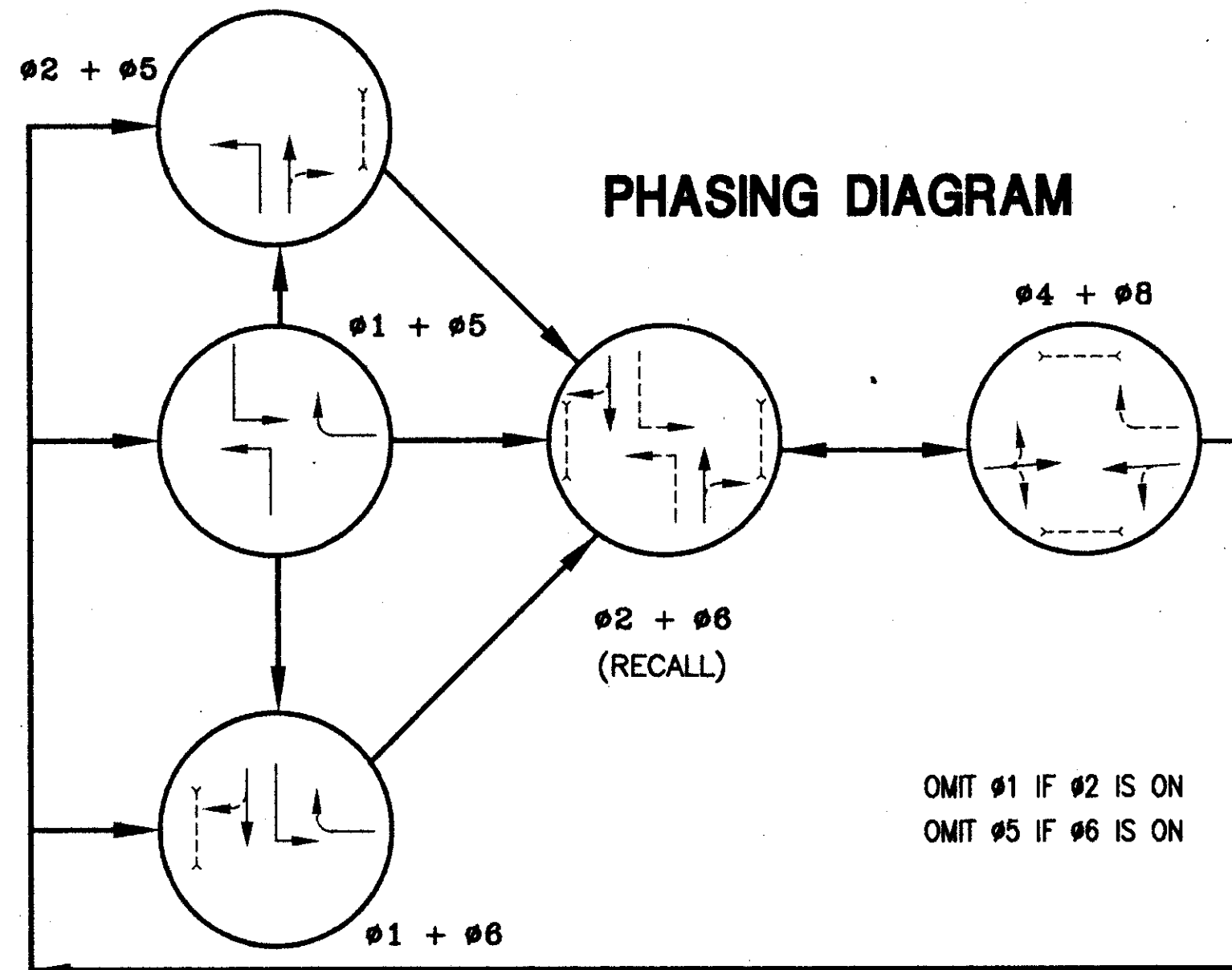
LOOP #	SIZE	# TURNS	MODE	DELAY	AMP #	PHASE
L1	1.8m X 11.3m	2	PRESENCE	2	1	1
L2	1.8m X 9.8m	2	PRESENCE	8	2	1
L3	1.8m X 9.8m	2	PRESENCE	2	6	4
L4	1.8m X 11.3m	2	PRESENCE	2	3	5
L5	1.8m X 9.8m	2-4-2	PRESENCE	2	7	8
L6	1.8m X 1.8m	3	PRESENCE		4	2
L7	1.8m X 3.1m	3	PRESENCE		5	6
S2	1.8m X 1.8m	3	PRESENCE		8	SYSTEM
S3	1.8m X 1.8m	3	PRESENCE		9	SYSTEM

SIGNAL TIMING

INTERVAL	#1	#2	#4	#5	#6	#8
INITIAL	7	31	10	7	31	10
PASSAGE	2.5	5.0	3.0	2.5	5.0	3.0
YELLOW	3.3	3.3	3.1	3.3	3.3	3.1
RED CLEAR	2.0	2.0	1.9	2.0	2.0	1.9
MAX I	14	38	29	14	38	29
MAX II	14	38	29	14	38	29
WALK		7	7		7	7
PED CLEAR		15	12		15	12
RECALL	NONE	MIN	NONE	NONE	MIN	NONE
MEMORY	OFF	ON	OFF	OFF	ON	OFF

ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
202	53.9	SQ. METER	WALK REMOVED, AS PER PLAN
608	53.9	SQ. METER	100mm CONCRETE WALK
608	1	EACH	CURB RAMP, TYPE 1
608	3	EACH	CURB RAMP, TYPE 2
625	36.1	METER	CONDUIT, 51 mm, 713.04
625	3.2	METER	CONDUIT, 102 mm, 713.04
625	93.4	METER	CONDUIT, JACKED OR DRILLED, SIZE: 76 mm
625	39.3	METER	TRENCH
625	2	EACH	PULLBOX, 713.08, 450 mm
625	3	EACH	PULLBOX REMOVED
625	9	EACH	PULLBOX, MISC.: 330 mmX 600 mm, AS PER PLAN
625	5	EACH	GROUND ROD
630	3	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	1	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN & REERECTION
632	5	EACH	VEHICULAR SIGNAL HEAD, 3-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	3	EACH	VEHICULAR SIGNAL HEAD, 5-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	8	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN
632	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	8	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	9	EACH	DETECTOR LOOP
632	4	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	5	EACH	LOOP DETECTOR UNIT, DELAY & EXTENSION TYPE, AS PER PLAN
632	71.8	METER	MESSANGER WIRE, 7 STRAND, 6mm DIAMETER WITH ACCESSORIES
632	192.4	METER	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
632	74.4	METER	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	289.1	METER	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	192.4	METER	SIGNAL CABLE, MISC.: PREEMPT DETECTOR CABLE
632	1	EACH	INTERCONNECT, MISC.: TYPE TC-84.20, BOX TYPE SPLICE ENCLOSURE
632	1	EACH	POWER SERVICE
632	1	EACH	PHONE DROP
632	4	EACH	SIGNAL SUPPORT FOUNDATION
632	768	METER	LOOP DETECTOR LEAD-IN CABLE
632	3	EACH	CONDUIT RISER, 51mm DIAMETER
632	4	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 2, AS PER PLAN
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	1	EACH	CONTROLLER, ACTUATED, 8 PHASE, SOLID-STATE DIGITAL MICROPROCESSOR, AS PER PLAN
633	1	EACH	CONTROLLER, MASTER, SOLID-STATE, MICROPROCESSOR, TRAFFIC RESPONSIVE, AS PER PLAN
633	1.4	CU. METER	CONCRETE FOR CABINET FOUNDATION
633	1.04	SQ. METER	CONTROLLER WORK PAD
633	4	EACH	CONTROLLER ITEM, MISC.: PREEMPT DETECTORS
633	1	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR
633	4	EACH	CONTROLLER ITEM, MISC.: CONFIRMATION LIGHT



PREEMPT CHANNELS

- CHANNEL 1 = #2 (EASTBOUND ONLY) CHANNEL 3 = #4 (NORTHBOUND ONLY)
 CHANNEL 2 = #2 (WESTBOUND ONLY) CHANNEL 4 = #4 (SOUTHBOUND ONLY)

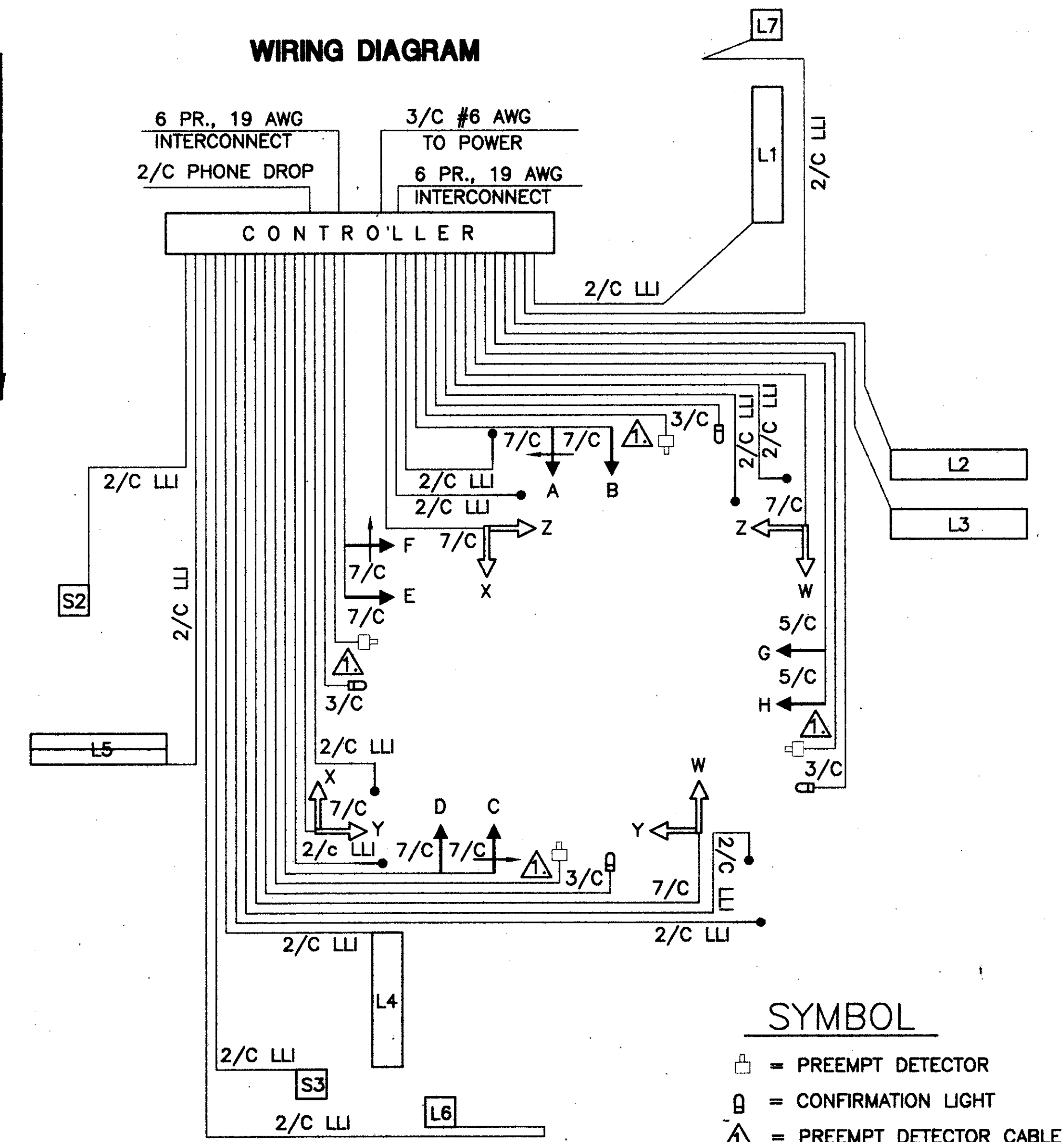
PREEMPT NOTES:

- ACTIVE WALK INDICATIONS SHALL IMMEDIATELY GO TO "DON'T WALK" UPON RECEIVING PREEMPTION SIGNAL.
- IF PHASE ACTIVE CONFLICTS WITH PREEMPT PHASE CALLED, IT SHALL IMMEDIATELY TIME ITS YELLOW AND ALL RED CLEARANCES.
- IF ACTIVE PHASE = THE PREEMPT PHASE, THEN THE PHASE SHALL HOLD FOR THE DURATION OF THE PREEMPT SIGNAL.
- AFTER RELEASE FROM PREEMPT, YELLOW AND ALL RED CLEARANCE SHALL BE DISPLAYED AND RETURN PHASE SHALL BE #2.
- IF PREEMPT PHASES = RETURN PHASE #2 THEN YELLOW AND ALL RED CLEARANCE AFTER PREEMPT SHALL NOT BE DISPLAYED.

NOTE:

ALL PUSHBUTTON(S) SHALL BE WIRED WITH 2 CONDUCTOR LOOP LEAD-IN CABLE (2/C LL). CONTRACTOR SHALL HOOK-UP THE DRAIN WIRE TO THE CONTROLLER GROUND.

WIRING DIAGRAM



TRAFFIC CONTROL PLAN
STATE STREET & MAIN STREET

LAKE COUNTY
LAK-20-22.916/VARIOUS