

COORDINATION TIMING

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	95 SEC.	100 SEC.	95 SEC.
PHASE 2 SPLIT	51%	50%	51%
PHASE 3 SPLIT	22%	23%	25%
PHASE 4 SPLIT	27%	27%	24%
PHASE 5 SPLIT	17%	17%	20%
PHASE 6 SPLIT	34%	33%	31%
PERMISSIVE	5%	5%	5%
OFFSET	78%	78%	58%
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	6:30PM MON-SAT 3:30PM TO

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

ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
202	47.6	SQ. METER	WALK REMOVED, AS PER PLAN
608	47.6	SQ. METER	100mm CONCRETE WALK
608	4	EACH	CURB RAMP, TYPE 2
625	58	METER	CONDUIT, 51 mm, 713.04
625	30.3	METER	CONDUIT, 76 mm, 713.04
625	6.5	METER	CONDUIT, 102 mm, 713.04
625	63	METER	CONDUIT, JACKED OR DRILLED, SIZE: 76 mm
625	94.8	METER	TRENCH
625	6	EACH	PULLBOX, 713.08, 450 mm
625	1	EACH	PULLBOX, 713.08, 600 mm
625	6	EACH	GROUND ROD
632	3	EACH	VEHICULAR SIGNAL HEAD, 3-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	2	EACH	VEHICULAR SIGNAL HEAD, 4-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	2	EACH	VEHICULAR SIGNAL HEAD, 5-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	1	EACH	VEHICULAR SIGNAL HEAD, 3-SECT., 300 mm LENS, 2-WAY, AS PER PLAN
632	6	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN
632	9	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	6	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	6	EACH	DETECTOR LOOP
632	2	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	4	EACH	LOOP DETECTOR UNIT, DELAY & EXTENSION TYPE, AS PER PLAN
632	219.5	METER	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
632	280.9	METER	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	244.1	METER	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	219.5	METER	SIGNAL CABLE, MISC.: PREEMPT DETECTOR CABLE
632	1	EACH	INTERCONNECT, MISC.: TYPE TC-84.20, BOX TYPE SPLICE ENCLOSURE
632	1	EACH	STRAIN POLE FOUNDATION
632	3	EACH	SIGNAL SUPPORT FOUNDATION
632	1	EACH	PEDESTAL FOUNDATION
632	528.9	METER	LOOP DETECTOR LEAD-IN CABLE
632	20.3	METER	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	2	EACH	CONDUIT RISER, 51mm DIAMETER
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 2
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 12
632	1	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 1, 6.4M
632	1	EACH	PEDESTAL, 2.4M, TRANSFORMER BASE
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	1	EACH	CONTROLLER, ACTUATED, 8 PHASE, SOLID-STATE DIGITAL MICROPROCESSOR, 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
642	15.6	METER	REMOVAL OF PAVEMENT MARKINGS
642	13.6	METER	STOP LINE, TYPE 2
642	155.6	METER	CROSSWALK LINE, TYPE 2

SIGNAL TIMING

INTERVAL	#2	#3	#4	#5	#6
MINIMUM INITIAL	22	10	10	7	22
PASSAGE	5.5	3.5	3.5	2.5	5.5
YELLOW CLEAR	3.6	3.6	3.6	3.1	3.6
RED CLEAR	2.0	2.0	2.0	2.0	2.0
MAX I	45	19	22	14	28
MAX II	45	19	22	14	28
WALK	7	5	0	0	7
PEDESTRIAN CLEAR	25	17	0	0	25
RECALL	MIN	NONE	NONE	NONE	MIN
MEMORY	ON	OFF	OFF	OFF	ON

OMIT #5 WHEN #6 IS ON

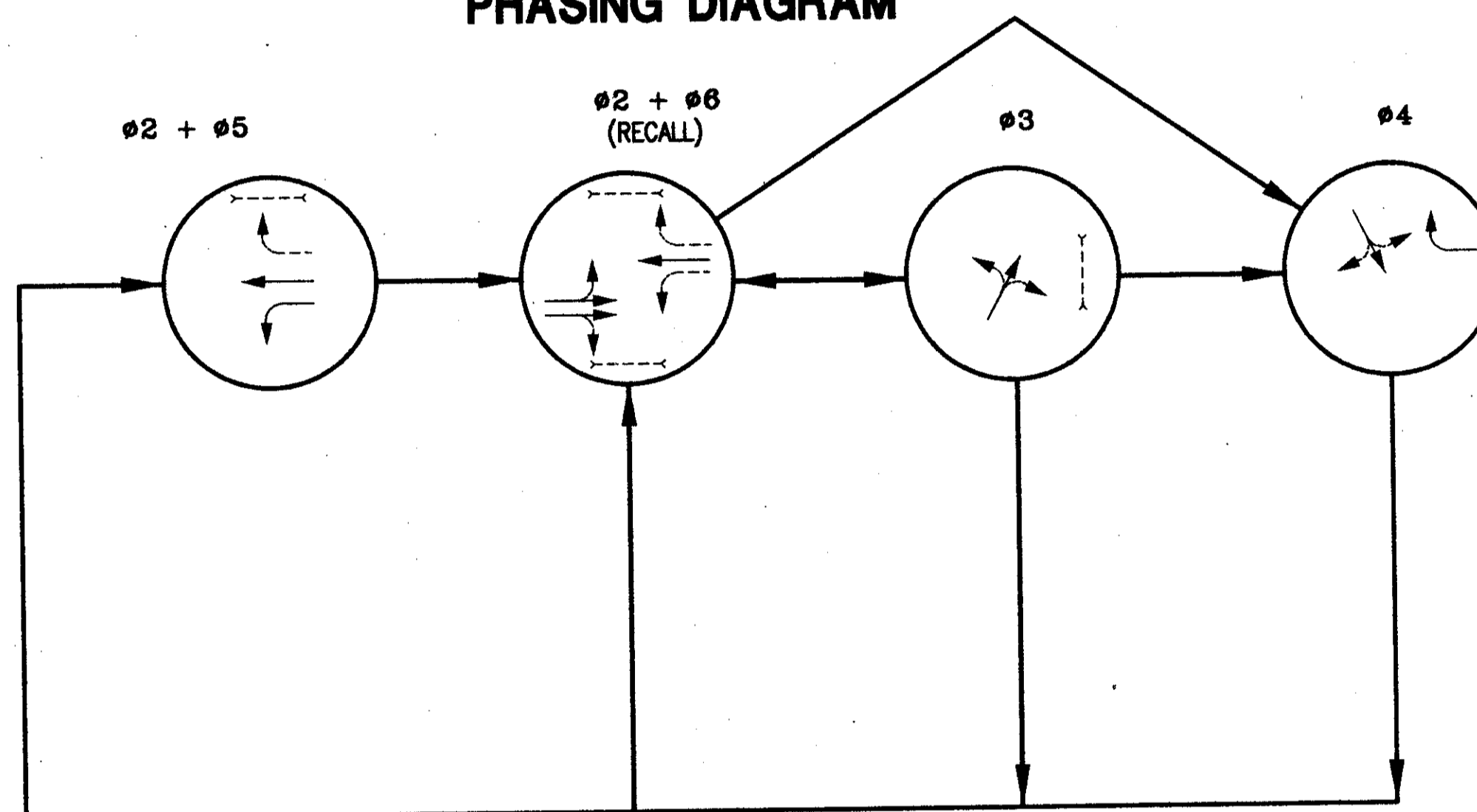
SIGNAL DISPLAY CHART

SIGNAL HEAD	#2 + #5		#2 + #6		#3		#4		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	G	G	G	G	Y	R	R	R	Y
B	G	G	G	G	Y	R	R	R	Y
C	R	R	R	R	Y	R	R	R	Y
D	R	R	R	R	Y	R	R	R	Y
E	R	R	R	R	Y	R	R	R	Y
F	R	R	R	R	Y	R	R	R	Y
G	R	R	R	R	Y	R	R	R	Y
H	R	R	R	R	Y	R	R	R	Y
J	R	R	R	R	Y	R	R	R	Y
K	R	R	R	R	Y	R	R	R	Y
W-W	DW	DW	DW	DW	FDW	DW	DW	DW	DW
X-X	DW	DW	DW	DW	FDW	DW	DW	DW	DW
Y-Y	W	W	W	W	FDW	DW	DW	DW	DW

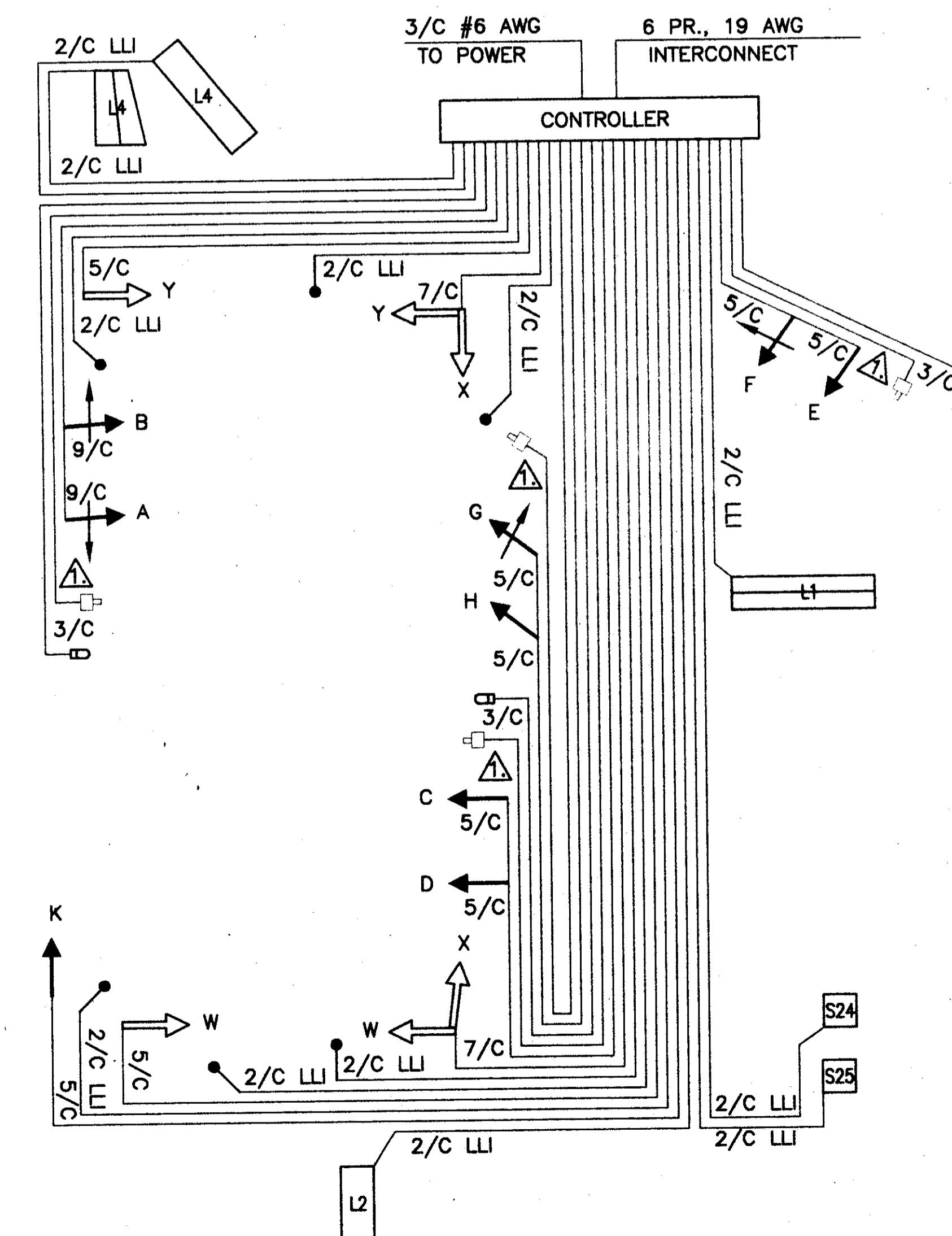
LOOP DETECTOR CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	AMP #	PHASE
L1	1.8m X 7.6m	2-4-2	PRESENCE	0	1	5
L2	2.4m X 10.7m	2	PRESENCE	8	2	3
L3	2.4m X 10.7m	2	PRESENCE	2	3	4
L4	1.8m X 3.6m X 5.8m	2-4-2	PRESENCE	8	4	4
S24	1.8m X 1.8m	3	PRESENCE	0	5	SYSTEM
S25	1.8m X 1.8m	3	PRESENCE	0	6	SYSTEM

PHASING DIAGRAM



WIRING DIAGRAM



PREEMPT CHANNELS

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

PREEMPT NOTES:

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

SYMBOL

- ⬢ = PREEMPT DETECTOR
- ⬢ = CONFIRMATION LIGHT
- ⚡ = PREEMPT DETECTOR CABLE

TRAFFIC CONTROL PLAN
RICHMOND STREET & SKINNER AVE.

LAKE COUNTY
LAK-20-14.35/VARIOUS

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