

### SIGNAL DISPLAY CHART

SIGNAL HEAD	#2				#3				#4				FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	G	G	Y	R	R	RR	R	R	R	R	R	R	Y
B	G	G	Y	R	R	R	R	R	R	R	R	R	Y
C	G	G	Y	R	R	R	R	R	R	R	R	R	Y
D	G	G	Y	R	R	R	R	R	R	R	R	R	Y
E	R	R	R	R	G	G	G	R	R	R	R	R	R
F	R	R	R	R	G	G	G	R	R	R	R	R	R
G	R	R	R	R	R	R	R	R	R	R	R	R	R
H	R	R	R	R	R	R	R	R	R	R	R	R	R
W-W	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DARK
X-X	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
Y-Y	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DARK
Z-Z	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK

### SIGNAL TIMING

INTERVAL	#2	#3	#4
INITIAL	20	7	22
PASSAGE	2.5	2.5	2.9
YELLOW	3.1	3.1	3.2
RED CLEAR	1.9	1.9	2.0
MAX I	38	22	36
MAX II	38	22	36
WALK	7	-	7
PED CLEAR	13	-	15
RECALL	MIN	NONE	NONE
MEMORY	ON	OFF	OFF

### COORDINATION TIMING

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	75 SEC.	110 SEC.	95 SEC.
PHASE 2 SPLIT	37%	39%	44%
PHASE 3 SPLIT	21%	24%	20%
PHASE 4 SPLIT	42%	37%	36%
PERMISSIVE	10%	10%	10%
OFFSET	44%	69%	100%
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

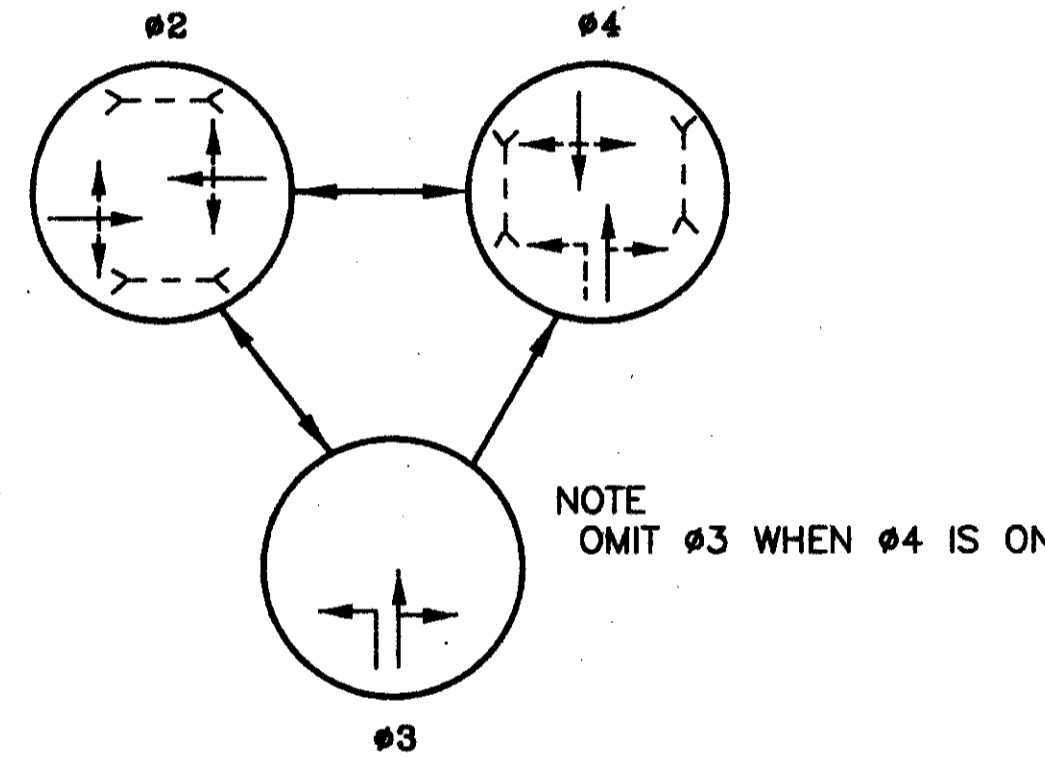
### LOOP DETECTOR CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	AMP #	PHASE
L1	2.0 m x 9.0 m	2	PRESENCE	8	1	3
L2	2.0 m x 9.0 m	2	PRESENCE	2	2	3
L3	2.0 m x 4.0 m	2-4-2	PRESENCE	8	3	3
L4	2.0 m x 9.0 m	2	PRESENCE	8	2	4
L5	2.0 m x 3.0 m	3	PRESENCE	8	3	4
S7	1.8 m x 3.7 m	3	PRESENCE	0	4	SYSTEM
S8	1.8 m x 3.7 m	3	PRESENCE	0	5	SYSTEM

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 YELLOW

### PHASING DIAGRAM



### PREEMPT CHANNELS

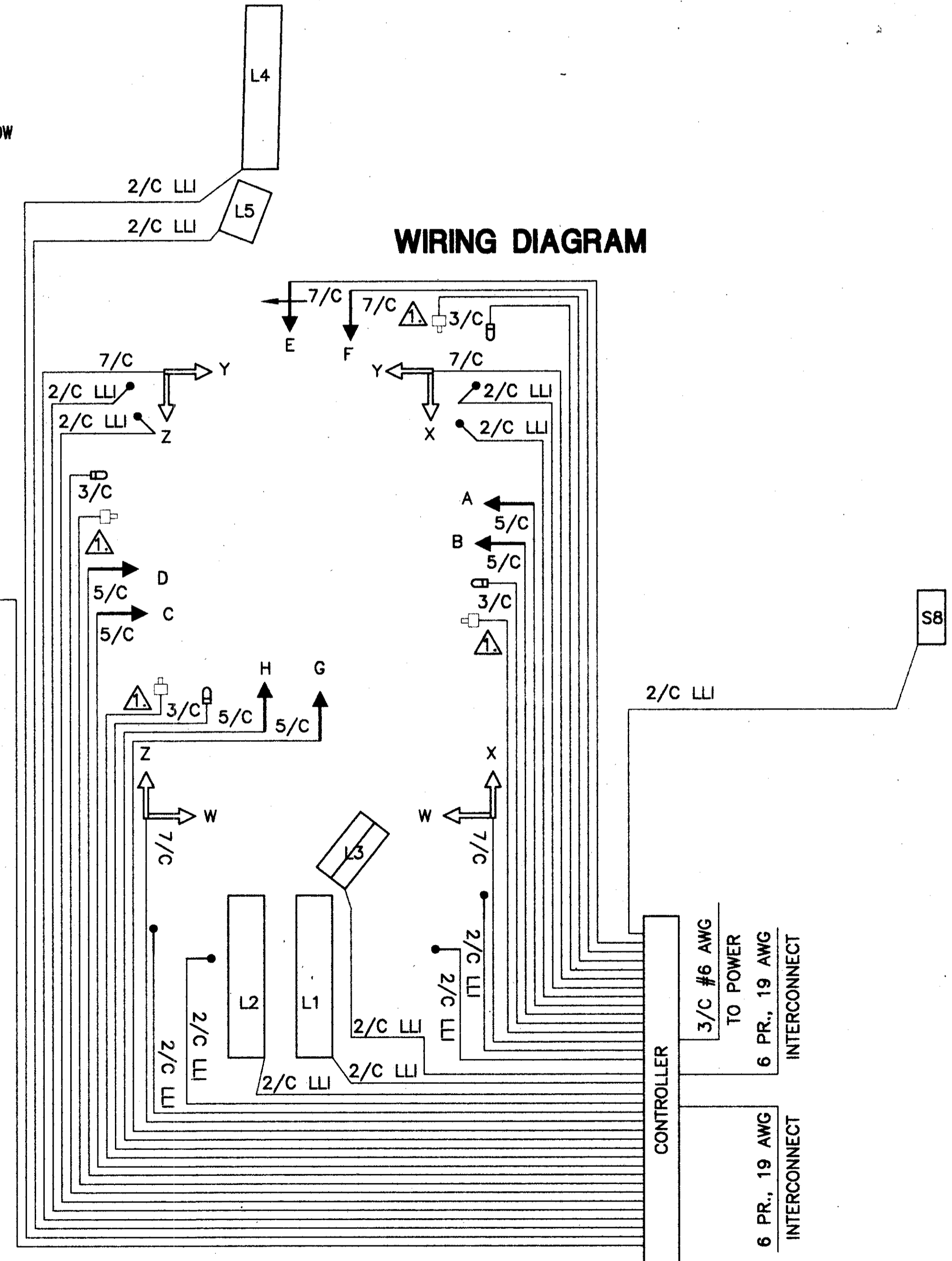
- CHANNEL 1 = #2 (EASTBOUND ONLY)
- CHANNEL 2 = #2 (WESTBOUND ONLY)
- CHANNEL 3 = #4 (NORTHBOUND ONLY)
- CHANNEL 4 = #4 (SOUTHBOUND ONLY)

PREEMPT NOTES:

1. ACTIVE WALK INDICATIONS SHALL IMMEDIATELY GO TO "DON'T WALK" UPON RECEIVING PREEMPTION 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.

### ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
202	8.8	SQ. METER	WALK REMOVED, AS PER PLAN
608	8.8	SQ. METER	100mm CONCRETE WALK
625	105.2	METER	CONDUIT, 51 mm, 713.04
625	11.1	METER	CONDUIT, 102 mm, 713.04
625	116	METER	CONDUIT, JACKED OR DRILLED, SIZE: 76 mm
625	116.3	METER	TRENCH
625	10	EACH	PULLBOX, 713.08, 450 mm
625	1	EACH	PULLBOX, 713.08, 600 mm
625	5	EACH	GROUND ROD
625	2	EACH	REMOVE EXISTING PULLBOX
630	4	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	1.92	SQ. METER	SIGN, FLAT SHEET, TYPE G
630	4	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN & STORAGE
632	7	EACH	VEHICULAR SIGNAL HEAD, 3-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	1	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	7	EACH	DETECTOR LOOP
632	2	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	5	EACH	LOOP DETECTOR UNIT, DELAY & EXTENSION TYPE, AS PER PLAN
632	238.1	METER	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
632	173.3	METER	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	276.9	METER	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	238.1	METER	SIGNAL CABLE, MISC.: PREEMPT DETECTOR CABLE
632	4	EACH	SIGNAL SUPPORT FOUNDATION
632	677	METER	LOOP DETECTOR LEAD-IN CABLE
632	14	METER	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	3	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. 3
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 4
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	1	EACH	CONTROLLER, ACTUATED, 8 PHASE, SOLID-STATE DIGITAL MICROPROCESSOR, AS PER PLAN
633	1.40	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



### SYMBOL

- = PREEMPT DETECTOR
- ⊞ = CONFIRMATION LIGHT
- △ = PREEMPT DETECTOR CABLE