

SIGNAL DISPLAY CHART

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

NOTE:
① REMAINS GREEN IF #2 IS NEXT

SIGNAL TIMING

INTERVAL	#2	#3	#4
INITIAL	16	7	8
PASSAGE	--	5.1	4.9
YELLOW	6.3	4.9	4.7
RED CLEAR	2.0	2.0	2.0
MAX I	30	30	30
MAX II	30	30	30
WALK	7	0	7
PED CLEAR	9	0	8
RECALL	MAX	NONE	NONE
MEMORY	ON	OFF	OFF

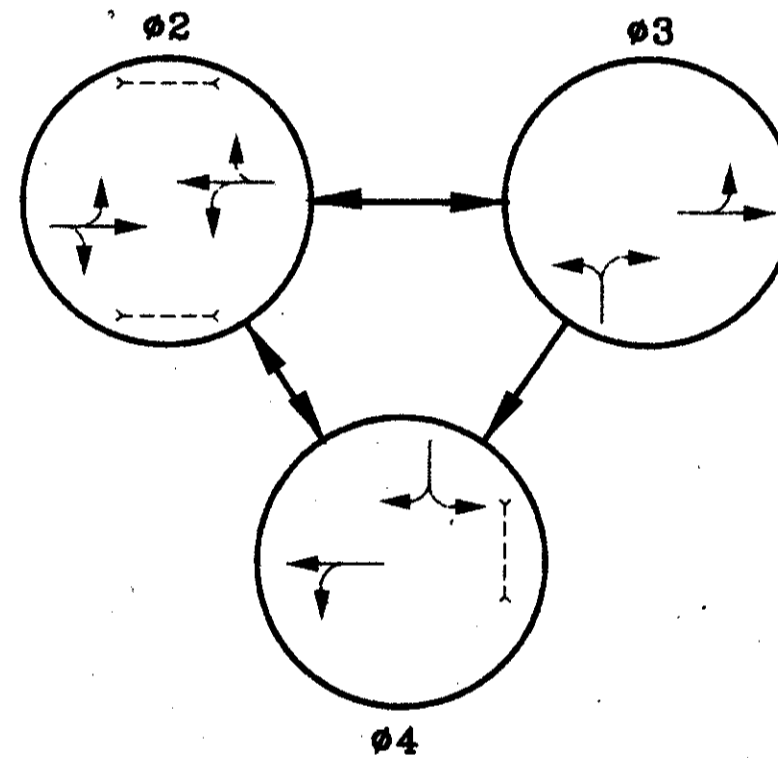
LOOP DETECTOR CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	AMP #	PHASE
L1	1.8 m x 12.2 m	2-4-2	PRESENCE	7	1	3
L2	1.8 m x 12.2 m	2	PRESENCE	7	2	2

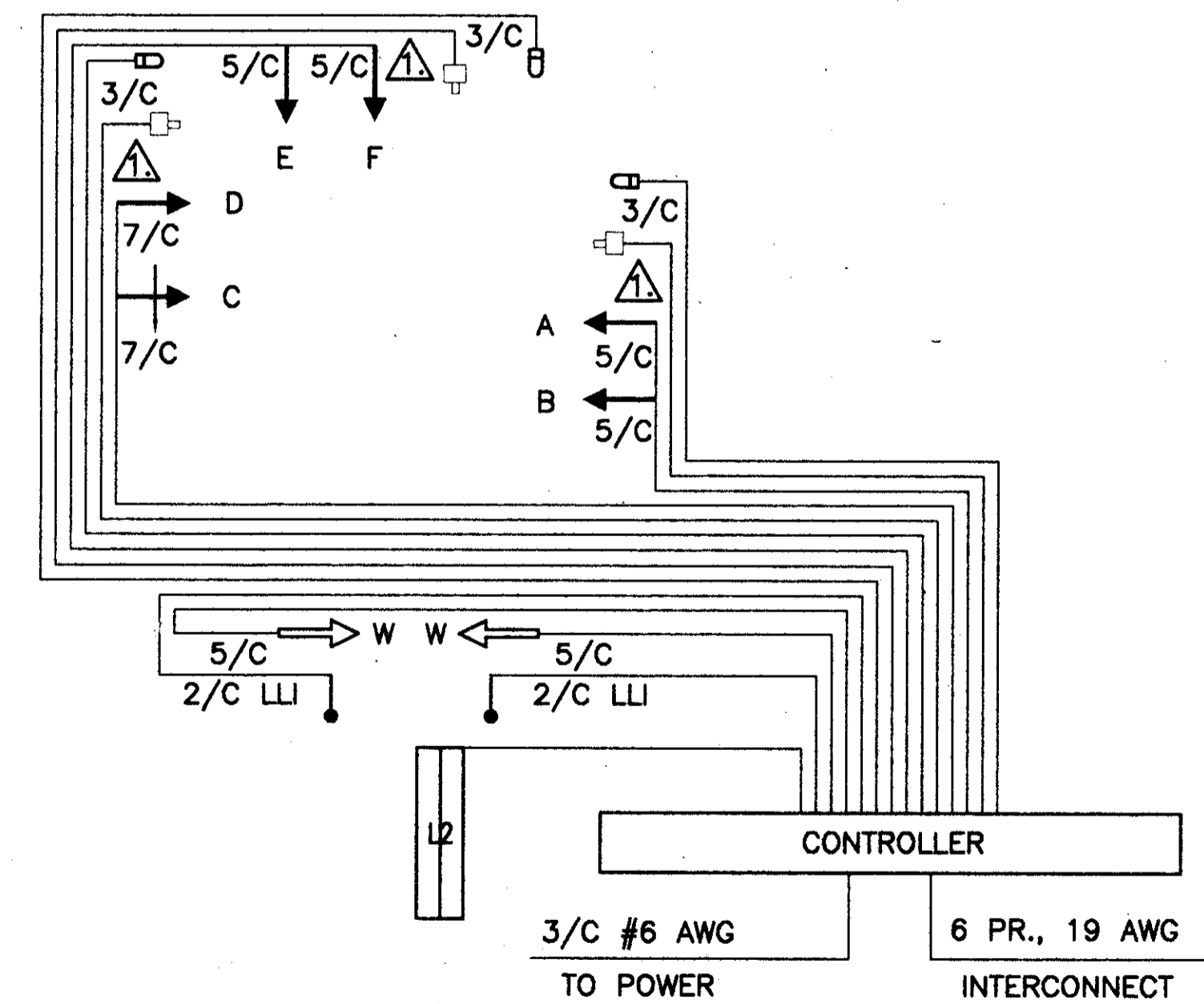
ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
202	1.6	SQ. METER	WALK REMOVED, AS PER PLAN
608	1.6	SQ. METER	100mm CONCRETE WALK
625	23.4	METER	CONDUIT, 51 mm, 713.04
625	1.1	METER	CONDUIT, 76 mm, 713.04
625	26.8	METER	CONDUIT, JACKED OR DRILLED, SIZE: 76 mm
625	24.5	METER	TRENCH
625	3	EACH	PULLBOX, 713.08, 450 mm
625	4	EACH	GROUND ROD
630	4.3	METERS	GROUND MOUNTED SUPPORT, NO. 3 POST
630	.46	SQ. METER	SIGN, FLAT SHEET, TYPE G
632	5	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	2	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN
632	6	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	2	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	1	EACH	DETECTOR LOOP
632	1	EACH	LOOP DETECTOR UNIT, DELAY & EXTENSION TYPE, AS PER PLAN
632	131	METER	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
632	114.5	METER	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	61.5	METER	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	131	METER	SIGNAL CABLE, MISC.: PREEMPT DETECTOR CABLE
632	2	EACH	SIGNAL SUPPORT FOUNDATION
632	1	EACH	PEDESTAL FOUNDATION
632	42.7	METER	LOOP DETECTOR LEAD-IN CABLE
632	22.5	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. 1
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 3
632	1	EACH	PEDESTAL, 2.4M, TRANSFORMER BASE
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	1	EACH	CONTROLLER, ACTUATED, 4 PHASE, SOLID-STATE DIGITAL MICROPROCESSOR, AS PER PLAN
633	.72	CU. METER	CONCRETE FOR CABINET FOUNDATION
633	.80	SQ. METER	CONTROLLER WORK PAD
633	3	EACH	CONTROLLER ITEM, MISC.: PREEMPT DETECTORS
633	1	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR
633	3	EACH	CONTROLLER ITEM, MISC.: CONFIRMATION LIGHT

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:

- 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 LLI). CONTRACTOR SHALL HOOK-UP THE DRAIN WIRE TO THE CONTROLLER GROUND.

SYMBOL

- ☐ = PREEMPT DETECTOR
- ⊕ = CONFIRMATION LIGHT
- △ = PREEMPT DETECTOR CABLE



CALCULATED
CHECKED

TRAFFIC CONTROL PLAN
JACKSON STREET & GRANT STREET/WEST EAGLE STREET

LAKE COUNTY
LAK-20-22.916/VAR