

SIGNAL DISPLAY CHART

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

SIGNAL TIMING

INTERVAL	#1	#2	#4
INITIAL	7	22	19
PASSAGE	4.6	4.6	2.8
YELLOW	4.5	4.5	3.2
RED CLEAR	2.0	2.0	2.0
MAX I	60	30	15
MAX II	60	30	15
WALK	-	7	7
PED CLEAR	-	15	12
RECALL	NONE	NONE	NONE
MEMORY	ON	ON	ON

LOOP DETECTOR CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	AMP #	PHASE
L1	2.4m x 15.2m	2-4-2	PRESENCE	8	1	2
L2	2.4m x 3.7m x 12.2m	2-4-2	PRESENCE	8	2	4
L3	2.4m x 12.2m	2-4-2	PRESENCE	8	3	4
L4	2.4m x 12.2m	2-4-2	PRESENCE	8	4	4

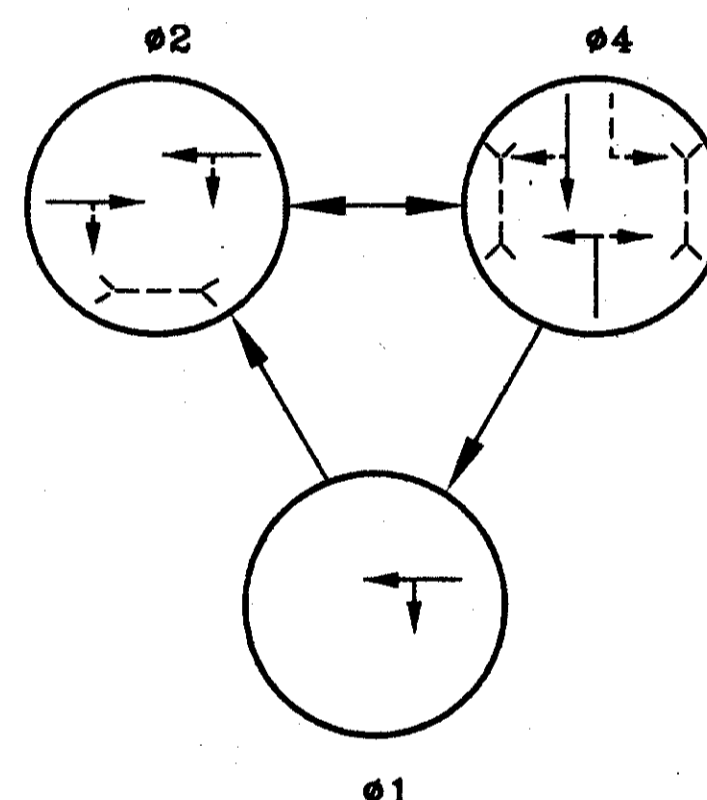
MAGNETOMETER DETECTOR CHART

PROBE #	CHANNEL #	STATION	OFFSET	MODE	AMP #	PHASE
M1	1	0+394	1.2 m L	CONTINUOUS-PRESENCE	7	1
M2	1	0+387	1.2 m L	CONTINUOUS-PRESENCE	7	1
M3	1	0+387	2.4 m L	CONTINUOUS-PRESENCE	7	1
M4	2	0+390.8	1.2 m L	CONTINUOUS-PRESENCE	7	1
M5	2	0+390.8	2.4 m L	CONTINUOUS-PRESENCE	7	1
M6	2	0+397.1	2.4 m L	CONTINUOUS-PRESENCE	7	1

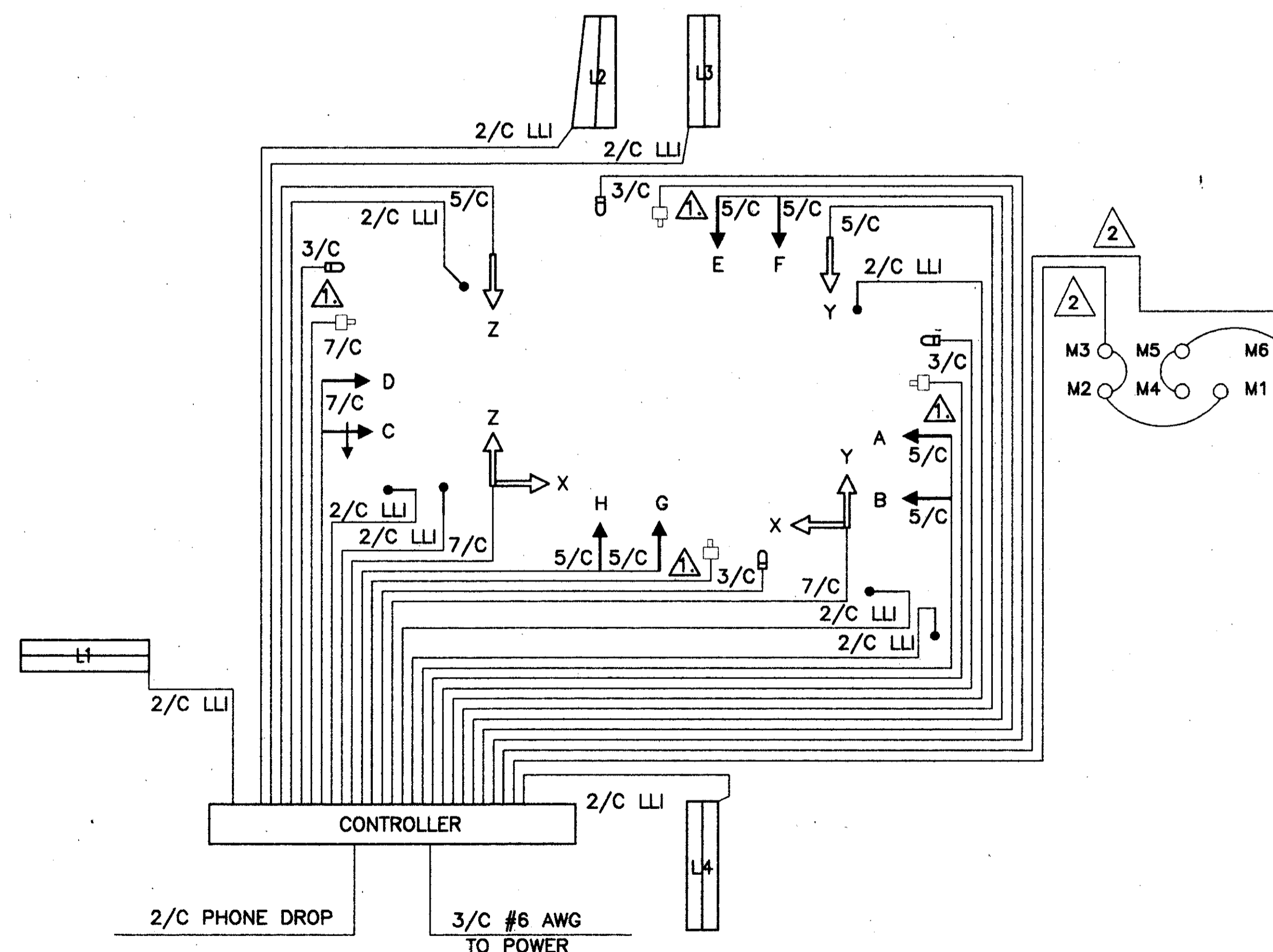
ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
202	1.9	SQ. METER	WALK REMOVED, AS PER PLAN
608	1.9	SQ. METER	100mm CONCRETE WALK
625	2	EACH	CURB RAMP, TYPE 2
625	4.6	SQ. METER	CURB RAMP, TYPE 2
625	20.2	METER	CONDUIT, 51 mm, 713.04
625	7.4	METER	CONDUIT, 102 mm, 713.04
625	47.5	METER	CONDUIT, JACKED OR DRILLED, SIZE: 76 mm
625	27.6	METER	TRENCH
625	5	EACH	PULLBOX, 713.08, 450 mm
625	5	EACH	GROUND ROD
625	4	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	1	EACH	SIGN HANGER ASSEMBLY, POLE MOUNTED
630	1.62	SQ. METER	SIGN, FLAT SHEET, TYPE G
630	1	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION
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	6	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN
632	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	6	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	4	EACH	DETECTOR LOOP
632	4	EACH	LOOP DETECTOR UNIT, DELAY & EXTENSION TYPE, AS PER PLAN
632	196.8	METER	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
632	253.6	METER	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	118.7	METER	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	196.8	METER	SIGNAL CABLE, MISC.: PREEMPT DETECTOR CABLE
632	4	EACH	SIGNAL SUPPORT FOUNDATION
632	311.6	METER	LOOP DETECTOR LEAD-IN CABLE
632	14.9	METER	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	1	EACH	CONDUIT RISER, 51mm DIAMETER
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 1
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 2
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 11
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
632	92.8	METER	MAGNETOMETER LEAD IN CABLE
632	6	EACH	MAGNETOMETER SENSOR PROBE, AS PER PLAN
632	2	EACH	MAGNETOMETER DETECTOR UNIT, AS PER PLAN
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

PHASING DIAGRAM



WIRING DIAGRAM



PREEMPT CHANNELS

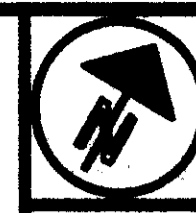
CHANNEL 1 = #2 (EASTBOUND ONLY) CHANNEL 3 = #4 (NORTHBOUND ONLY)
 CHANNEL 2 = #2 (WESTBOUND ONLY) CHANNEL 4 = #4 (SOUTHBOUND ONLY)

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
- △ = MAGNETOMETER LEAD IN CABLE



CALCULATED
CHECKED

TRAFFIC CONTROL PLAN
WEST JACKSON STREET AND FERN DRIVE/S.R. 44 RAMP

LAKE COUNTY
LAK-20-22.916/VARIOUS