

SIGNAL DISPLAYS

SIGNAL HEAD	ø 2 & ø 5			ø 2 & ø 6			ø 3 & ø 8			FLASH		
	R/W	CLEAR		R/W	CLEAR		R/W	CLEAR				
1	R	R	R	R	G	G	Y	R	R	R	R	Y
2	R	R	R	R	G	G	Y	R	R	R	R	Y
3	R	R	R	R	R	R	R	R	G	G	Y	R
4	R	R	R	R	R	R	R	R	G	G	Y	R
5	G	G	Y	R	G	G	Y	R	R	R	R	Y
6	G	G	Y	R	G	G	Y	R	R	R	R	Y
7	R	R	R	R	R	R	R	R	R	R	R	R

TRAFFIC SIGNAL DETECTOR CHART

LOOP DESIGNATION	SIZE (FT.)	TURNS	PULSE OR PRESENCE	DELAY (SEC.)	EXTENSION (SEC.)	OVERRIDE PHASE	CONNECT TO DETECTOR UNIT (UNIT-CHANNEL)	ASSOCIATED CONTROLLER PHASE
L-1	8' x 40'	3	PRESENCE	-	-	-	1	5
L-2	8' x 40'	3	PRESENCE	10	-	-	2	8
L-3	8' x 20'	3	PRESENCE	10	-	-	3	8
L-4	8' x 40'	3	PRESENCE	-	-	-	4	3
L-5	8' x 40'	3	PRESENCE	-	-	-	5	3
L-6	6' x 6'	3	PULSE	-	-	-	6	SYSTEM
L-7	6' x 6'	3	PULSE	-	-	-	7	SYSTEM
L-8	6' x 6'	3	PULSE	-	-	-	8	SYSTEM
L-9	6' x 6'	3	PULSE	-	-	-	9	SYSTEM

OVERHEAD SIGNS

FROM SHEET NO.	STATION	SIDE	SIGN CODE AND SIZE					ITEM 630				
			S-24 (24"x30")	M2-H6 (108"x84")	D3-H2A (72"x18")	D3-H2A (96"x18")	M2-H6 (120"x84")	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	SIGN, FLAT SHEET	SIGN, OVERHEAD EXTRUSHEET	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	SIGN HANGER ASSEMBLY, MAST ARM
1170	27+74	LT				1						
1170	26+90	LT		2				12	126			1
TOTAL												
							12	126	-	1		

TIMING CHART

START UP START IN: Y/R FLASH ● ; ALL RED ○ TIME FOR FLASH OR ALL RED 3 SEC. FIRST PHASE(S) ø 2 & ø 6 COLOR DISPLAYED: GREEN ● ;YELLOW ○	DUAL ENTRY ●							
	REST IN RED: RING 1 ○ RING 2 ○							
OVERLAP	A	B	C	D				
PHASES	6+3							
INTERVAL	CONTROLLER PHASE							
MOVEMENT	1	2	3	4	5	6	7	8
MINIMUM GREEN (INITIAL)	-	10			10	-		10
ADDED INITIAL	-	-	-	-	-	-	-	-
PASSAGE TIME	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION	-	-	-	-	-	-	-	-
MINIMUM GAP	-	-	-	-	-	-	-	-
TIME TO REDUCE	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	27.5	35.5			10	27.5		35.5
MAXIMUM GREEN II	-	-	-	-	-	-	-	-
YELLOW CHANGE	4	4			3	4		4
ALL RED CLEARANCE	2	2			2	2		2
WALK	-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE	-	-	-	-	-	-	-	-
RECALL	MAXIMUM	ON	-	-	ON	-	-	-
	MINIMUM	-	-	-	-	-	-	-
	PEDESTRIAN	-	-	-	-	-	-	-
MEMORY		OFF	OFF		OFF	OFF		OFF
CALL TO NON-ACUATED	No. 1	-	-	-	-	-	-	-
	No. 2	-	-	-	-	-	-	-
MAXIMUM CYCLE	90							

SYSTEM TIMING AND COORDINATION CHART

	CYCLE LENGTH (SEC)	OFFSET (%)	PERCENT SPLIT BY PHASE							
			SBLT	NBT	WBLT	EBT	NBLT	SBT	EBLT	WBT
			1	2	3	4	5	6	7	8
PROGRAM # 1	110	29	54	46		18	36		46	
PROGRAM # 2	120	12	60	40		21	39		40	

TRAFFIC SIGNAL OFFSET CHART

INTERSECTION DESCRIPTION:	NON-MASTER INTERSECTION	
TIME PERIOD	TIME INTERVAL	PROGRAM NUMBER
AM PEAK HOUR	6:30 AM TO 2:30 PM 6:30 PM TO 9:00 PM	#1
PM PEAK HOUR	2:30 PM TO 6:30 PM	#2
OFF PEAK	ALL OTHER TIMES	FREE

NOTE: TIME SPACE DIAGRAMS AND EXISTING INTERCONNECT PLANS CAN BE FOUND AT THE ODOT DISTRICT 12 OFFICES TITLED LAK-91-4.56

SUB-SUMMARY OF TRAFFIC SIGNAL ITEMS

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION	REFERENCE	CALCULATED	CHECKED
					DAT	MAH
625	264	FT	CONDUIT, 2", 725.05			
625	75	FT	CONDUIT, 3", 725.04			
625	38	FT	CONDUIT, 3", 725.05			
625	372	FT	TRENCH			
625	143	FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"			
625	7	EACH	PULL BOX, 725.08, 18"			
625	1	EACH	PULL BOX, 725.08, 24"			
625	4	EACH	GROUND ROD			
625	1	EACH	GROUND ROD, AS PER PLAN	1038		
625	372	FT	PLASTIC CAUTION TAPE	1040		
632	6	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	1038		
632	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	1038		
632	9	EACH	DETECTOR LOOP			
632	9	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	1038		
632	726	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG			
632	3	EACH	SIGNAL SUPPORT FOUNDATION			
632	1	EACH	PEDESTAL FOUNDATION			
632	1655	FT	LOOP DETECTOR LEAD-IN CABLE			
632	1	EACH	POWER SERVICE, AS PER PLAN	1038		
632	1	EACH	CONDUIT RISER, 2" DIAMETER			
632	1	EACH	COMBINATION SIGNAL SUPPORT MISC.: TYPE 12.30, DESIGN 6 POLE WITH MAST ARM TC-81.20 DESIGN 2 AND SIGN SUPPORT TC-12.30 DESIGN 1			
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 4			
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 11			
632	1	EACH	PEDESTAL, 8', TRANSFORMER BASE			
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			
633	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1			
633	1	EACH	CABINET RISER			
633	1	EACH	CABINET FOUNDATION			
633	1	EACH	CONTROLLER WORK PAD			
633	3	EACH	CONTROLLER ITEM, MISC.: PREEMPTION RECEIVING UNIT	1039		
633	3	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR	1039		
633	3	EACH	CONTROLLER ITEM, MISC.: PREEMPTION CONFIRMATION LIGHT	1039		
633	478	FT	CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR CABLE	1039		