SIGNAL DISPLAYS

SIGNAL HEAD	ϕ 1 & ϕ 6				ϕ 2 & ϕ 6				ϕ 4 & ϕ 7				
	R/W		CLEAR		R/W		CLEAR		R/W		CLEAR		
1	G	G	Y	R	G	G	Y	R	R	R	R	R	Y
2	←G/G	←G/G	←Y/Y	R	G	G	Y	R	R	R	R	R	Y
3	R	R	R	R	G	G	Y	R	R	R	R	R	Y
4	R	R	R	R	G	G	Y	R	R	R	R	R	Y
5	R	R	R	R	G	G	Y	R	R	R	R	R	Y
6	R	R	R	R	R	R	R	R	G	G	Y	R	R
7	R	R	R	R	R	R	R	R	G	G	Y	R	R

VEHICLE DETECTOR CHART

DETECTION ZONE IDENTIFICATION	SIZE	TYPE	DELAY (SEC.)	ASSOCIATED CONTROLLER PHASE	DESCRIPTION
DZ1	8' x 24' x 40'	PRESENCE	10	ϕ 4	NEB CALL
DZ2	8' x 40'	PRESENCE	-	ϕ 4	NEB CALL
DZ3	8' x 40'	PRESENCE	-	ϕ 7	NEB CALL
DZ4	8' x 40'	PRESENCE	-	ϕ 1	NEB CALL
DZ5	6' x 6'	PULSE	-	-	SYSTEM
DZ6	6' x 6'	PULSE	-	-	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
								EACH	SQ.FT.	SQ.FT.	EACH	EACH
1167	22+25	RT				1			12			1
1167	22+81	RT					2			140		
TOTAL									12	140	-	1

TIMING CHART

START UP

START IN: Y/R FLASH ● ; ALL RED ○
TIME FOR FLASH OR ALL RED 3 SEC.
FIRST PHASE(S) ϕ 2 & ϕ 6
COLOR DISPLAYED: GREEN ● ;YELLOW ○

DUAL ENTRY ●
REST IN RED: RING 1 ○ RING 2 ○

OVERLAP	A	B	C	D
PHASES	2+7			

INTERVAL		CONTROLLER PHASE							
		1	2	3	4	5	6	7	8
MOVEMENT		↰	→	↱	↓	↲	←	↳	↑
MINIMUM GREEN (INITIAL)		10	-		10		-	10	
ADDED INITIAL		-	-		-		-	-	
PASSAGE TIME		-	-		-		-	-	
TIME BEFORE REDUCTION		-	-		-		-	-	
MINIMUM GAP		-	-		-		-	-	
TIME TO REDUCE		-	-		-		-	-	
MAXIMUM GREEN I		10	28		35		28	35	
MAXIMUM GREEN II		-	-		-		-	-	
YELLOW CHANGE		3	4		4		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	15	16	41		43		57	43	
PROGRAM # 2	120	12	15	41		44		56	44	

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
625	52	FT	CONDUIT, 3", 725.04	
625	56	FT	CONDUIT, 3", 725.05	
625	102	FT	TRENCH	
625	112	FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"	
625	2	EACH	PULL BOX, 725.08, 18"	
625	1	EACH	PULL BOX, 725.08, 24"	
625	3	EACH	GROUND ROD	
625	1	EACH	GROUND ROD, AS PER PLAN	1038
625	102	FT	PLASTIC CAUTION TAPE	1040
632	6	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS,	1038
			1-WAY, POLYCARBONATE, AS PER PLAN	
632	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS,	1038
			1-WAY, POLYCARBONATE, AS PER PLAN	
632	597	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	3	EACH	SIGNAL SUPPORT FOUNDATION	
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 11 AND SIGN SUPPORT TC-12.30 DESIGN 3	
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 3	
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 11	
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	548	FT	CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR CABLE	1039
816	1	EACH	VIDEO DETECTION SYSTEM, AS PER PLAN	1040

CALCULATED DAT
CHECKED MAH

TRAFFIC SIGNAL DETAILS AND SUB-SUMMARY
SOM CENTER RD / RAMP B / RAMP C INTERSECTION

LAK-2-3.32

1168
1679