

o:\project\lak\13486\signals\sheets\13486CPL01A.dgn 6/23/2008 10:30:03 AM jmadario

SIGNAL DISPLAYS

SIGNAL HEAD	ø 1 & ø 6		ø 2 & ø 6				ø 4 & ø 8				FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
1	G	G	G	G	G	Y	R	R	R	R	Y
2	G	G	G	G	G	Y	R	R	R	R	Y
3	R	R	R	R	G	Y	R	R	R	R	Y
4	R	R	R	R	G	Y	R	R	R	R	Y
5	R	G	R	R	R	R	R	G	G	Y	R
6	R	R	R	R	R	R	R	G	G	Y	R
7	R	R	R	R	R	R	R	G	G	Y	R
8	R	R	R	R	R	R	R	G	G	Y	R
A	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW
B	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW
C	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW
D	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW
E	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW
F	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW

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	6' x 40'	3	PRESENCE	-	-	-	1	1
L-2	6' x 40'	3	PRESENCE	10	-	-	2	4
L-3	6' x 40'	3	PRESENCE	-	-	-	3	7
L-4	6' x 40'	3	PRESENCE	-	-	-	4	3
L-5	6' x 40'	3	PRESENCE	-	-	-	5	8
L-6	6' x 40'	3	PRESENCE	10	-	-	6	8

OVERHEAD SIGNS

FROM SHEET NO.	STATION	SIDE	SIGN CODE AND SIZE					ITEM 630					
			R10-4A-9 (9"x12")	R10-7-24 (24"x30")	D3-H2A (72"x18")	D3-H2A (96"x18")	E1-H1 (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, AS PER PLAN	
1183	50+51.5	LT	1										
1183	50+57	RT	1										
1183	50+60	LT											
1183	50+87	RT				1		2					
1183	51+14	RT				1							
1183	51+66	LT				1							
TOTAL			-						49.5	140	2		4

TIMING CHART

START UP DUAL ENTRY ○
 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 ○

REST IN RED: RING 1 ○ RING 2 ○
 OVERLAP PHASES A B C D

INTERVAL	CONTROLLER PHASE							
	1	2	3	4	5	6	7	8
MOVEMENT	↶	→	↷	↓	↶	↷	↶	↷
MINIMUM GREEN (INITIAL)	-	-	-	-	-	-	-	9
ADDED INITIAL	-	-	-	-	-	-	-	-
PASSAGE TIME	-	-	-	-	-	-	-	3
TIME BEFORE REDUCTION	-	-	-	-	-	-	-	-
MINIMUM GAP	-	-	-	-	-	-	-	-
TIME TO REDUCE	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	7	-	-	-	-	24	-	21
MAXIMUM GREEN II	-	-	-	-	-	-	-	-
YELLOW CHANGE	5	-	-	-	5.5	-	-	5.5
ALL RED CLEARANCE	-	-	-	-	-	1	-	1
WALK	-	-	-	-	-	4	-	4
PEDESTRIAN CLEARANCE	-	-	-	-	-	20	-	17
RECALL	MAXIMUM		-	-	-	ON	-	-
	MINIMUM		-	-	-	-	-	-
	PEDESTRIAN		-	-	-	-	-	-
MEMORY	OFF		-	-	-	OFF	-	OFF
CALL TO NON-ACUATED	No. 1	-	-	-	-	-	-	-
	No. 2	-	-	-	-	-	-	-
MAXIMUM CYCLE	70							

LOST NATION RD. & EB RAMPS

DESCRIPTION	TIMING PROGRAM (CYCLE NO.)					
	1	2	3	4	5	
TIME PERIOD IN EFFECT	FREE OPER.	SEE WEEKLY TIMING PROGRAM CHART				
CYCLE LENGTH (SEC.)		70	70	70		
OFFSET (RESET) NO. 1 (SEC.)		25	25	25		
FORCE - OFF #2		29	28	29		
FORCE - OFF #3		60	59	60		
FORCE - OFF #4						
FORCE - OFF #5						
LENGTH OF HOLD - RELEASE OR YIELD (PERMISSIVE) (SEC.)		4	4	4		

WEEKLY TIMING PROGRAM CHART

	2400-0600	0600-0700	0700-0800	0800-0900	0900-1130	1130-1400	1400-1600	1600-1700	1700-1800	1800-2130	2130-2300	2300-2400
SUNDAY	1	2	2	2	2	2	2	2	2	1	1	
MONDAY	1	3	3	3	2	2	2	4	4	2	2	1
TUESDAY	1	3	3	3	2	2	2	4	4	2	2	1
WEDNESDAY	1	3	3	3	2	2	2	4	4	2	2	1
THURSDAY	1	3	3	3	2	2	2	4	4	2	2	1
FRIDAY	1	3	3	3	2	2	2	4	4	2	2	1
SATURDAY	1	3	3	3	2	2	2	4	4	2	1	1

NOTES:

- 1) TIME SPACE DIAGRAM AND EXISTING INTERCONNECT PLANS CAN BE FOUND AT THE ODOT DISTRICT 12 OFFICES DATED 8/92, TITLED LAK-LOST NATION ROAD.

SUB-SUMMARY OF TRAFFIC SIGNAL ITEMS

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION	REFERENCE	CALCULATED	DRJ	CHECKED	TMD
625	3	EACH	BRACKET ARM, 15'					
625	219	FT	CONDUIT, 2", 725.05					
625	488	FT	CONDUIT, 3", 725.04					
625	32	FT	CONDUIT, 3", 725.05					
625	739	FT	TRENCH					
625	3	EACH	PULL BOX, 725.08, 18"					
625	3	EACH	PULL BOX, 725.08, 24"					
625	4	EACH	GROUND ROD					
625	1	EACH	GROUND ROD, AS PER PLAN	1038				
625	739	FT	PLASTIC CAUTION TAPE	1038				
630	2	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN	1038				
630	4	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	1038				
630	50	SF	SIGN, FLAT SHEET					
630	140	SF	SIGN, OVERHEAD EXTRUSHEET					
632	6	EACH	VEHICULAR SIGNAL HEAD WITH LED LAMP UNITS, 3-SECTION, 12" LENS, 1-WAY, AS PER PLAN	1038				
632	2	EACH	VEHICULAR SIGNAL HEAD WITH LED LAMP UNITS, 5-SECTION, 12" LENS, 1-WAY, AS PER PLAN	1038				
632	6	EACH	PEDESTRIAN SIGNAL HEAD WITH LED LAMP UNITS, TYPE A2					
632	2	EACH	PEDESTRIAN PUSHBUTTON					
632	6	EACH	DETECTOR LOOP					
632	6	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	1038				
632	1	EACH	DISCONNECT SWITCH WITH ENCLOSURE					
632	1,472	FT	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG					
632	1,729	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG					
632	1,499	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG					
632	4	EACH	SIGNAL SUPPORT FOUNDATION					
632	5	EACH	PEDESTAL FOUNDATION					
632	2,888	FT	LOOP DETECTOR LEAD-IN CABLE					
632	210	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG					
632	40	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG					
632	316	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG					
632	1	EACH	POWER SERVICE, AS PER PLAN	1039				
632	1	EACH	CONDUIT RISER, 2" DIAMETER					
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.20, DESIGN 2					
632	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.20, DESIGN 12					
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-12.30	1038				
			DESIGN 5 POLE, WITH MAST ARM TC-81.20 DESIGN 11 AND SIGN SUPPORT TC-12.30 DESIGN 5					
632	1	EACH	PEDESTAL, 5', TRANSFORMER BASE					
632	4	EACH	PEDESTAL, 8', TRANSFORMER BASE					
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION					
633	1	EACH	CONTROLLER, MASTER, TRAFFIC RESPONSIVE, AS PER PLAN	1040				
633	1	EACH	CABINET RISER					
633	1	EACH	CABINET FOUNDATION					
633	1	EACH	TELEPHONE SERVICE					
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT	1039				
633	4	EACH	CONTROLLER ITEM, MISC.: PREEMPTION RECEIVING UNIT	1039				
633	1	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR	1039				
633	4	EACH	CONTROLLER ITEM, MISC.: PREEMPT CONFIRMATION LIGHT	1040				
633	1	EACH	CONTROLLER ITEM, MISC.: PREEMPTION	1040				
633	1,472	FT	CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR CABLE	1040				

**TRAFFIC SIGNAL DETAILS AND SUB-SUMMARY
LOST NATION ROAD AND EASTBOUND RAMPS**

LAK-2-3.32

1184
1679