

\\Akrn01\Data\Civil\2004108\00\13486\signals\sheets\13486CPREY01A.dgn 6/16/2008 9:29:28 AM svarrrechia

SIGNAL DISPLAYS

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

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	10	-	-	1	4
L-2	8' x 40'	3	PRESENCE	-	-	-	2	4
L-3	8' x 40'	3	PRESENCE	-	-	-	3	7
L-4	8' x 40'	3	PRESENCE	-	-	-	4	7
L-5	8' x 40'	3	PRESENCE	-	-	-	5	1
L-6	6' x 6'	3	PULSE	-	-	-	6	SYSTEM
L-7	6' x 6'	3	PULSE	-	-	-	7	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			
1189	16+80	RT				1					EACH	SO.FT.	SO.FT.	EACH	EACH
1189	17+77	RT					2					12	140		1
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 PHASES				A	B	C	D
				2+7				
INTERVAL	CONTROLLER PHASE							
MOVEMENT	1	2	3	4	5	6	7	8
MINIMUM GREEN (INITIAL)	10	-	-	-	-	-	-	-
ADDED INITIAL	-	-	-	-	-	-	-	-
PASSAGE TIME	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION	-	-	-	-	-	-	-	-
MINIMUM GAP	-	-	-	-	-	-	-	-
TIME TO REDUCE	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	8	32	33	32	33			
MAXIMUM GREEN II	-	-	-	-	-			
YELLOW CHANGE	3	4	4	4	4			
ALL RED CLEARANCE	2	2	2	2	2			
WALK	-	4	-	4	-			
PEDESTRIAN CLEARANCE	-	32	-	32	-			
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

PROGRAM #	CYCLE LENGTH (SEC)	OFFSET (SEC)	PERCENT SPLIT BY PHASE												
			SBLT	NBT	WBLT	EBT	NBLT	SBT	EBLT	WBT					
			1	2	3	4	5	6	7	8					
PROGRAM # 1	90	N/A	15	42		43		57	43						
PROGRAM # 2	80	6	16	40		44		56	44						
PROGRAM # 3	110	5	14	44		42		58	42						
PROGRAM # 4	110	16	11	57		32		68	32						
PROGRAM # 5	110	14	32	35		33		67	33						

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	3	3	3	3	3	2	1	1
MONDAY	1	2	5	5	5	3	4	4	4	3	2	1
TUESDAY	1	2	5	5	5	3	4	4	4	3	2	1
WEDNESDAY	1	2	5	5	5	3	4	4	4	3	2	1
THURSDAY	1	2	5	5	5	3	4	4	4	3	2	1
FRIDAY	1	2	5	5	5	3	4	4	4	3	2	1
SATURDAY	1	2	5	5	3	3	4	4	4	3	1	1

NOTE: TIME SPACE DIAGRAM AND EXISTING INTERCONNECT PLANS CAN BE FOUND AT THE ODOT DISTRICT 12 OFFICES DATED 2/91, TITLED LAK 306-6.82

SUB-SUMMARY OF TRAFFIC SIGNAL ITEMS

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION	REFERENCE	CALCULATED	CHECKED	MAH
					DAT		
625	107	FT	CONDUIT, 2", 725.05				
625	203	FT	CONDUIT, 3", 725.04				
625	44	FT	CONDUIT, 3", 725.05				
625	347	FT	TRENCH				
625	128	FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"				
625	3	EACH	PULL BOX, 725.08, 18"				
625	1	EACH	PULL BOX, 725.08, 24"				
625	6	EACH	GROUND ROD				
625	1	EACH	GROUND ROD, AS PER PLAN	1038			
625	348	FT	PLASTIC CAUTION TAPE	1040			
632	7	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	4	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE A2, AS PER PLAN	1038			
632	4	EACH	PEDESTRIAN PUSHBUTTON				
632	7	EACH	DETECTOR LOOP				
632	7	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	1038			
632	692	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG				
632	554	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG				
632	3	EACH	SIGNAL SUPPORT FOUNDATION				
632	3	EACH	PEDESTAL FOUNDATION				
632	2073	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 3				
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 3				
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 11				
632	3	EACH	PEDESTAL, 8', TRANSFORMER BASE				
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION				
633	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS2, AS PER PLAN	1041			
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	483	FT	CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR CABLE	1039			

TRAFFIC SIGNAL DETAILS AND SUB-SUMMARY REYNOLDS RD / RAMP K / RAMP N INTERSECTION

LAK-2-3.32

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