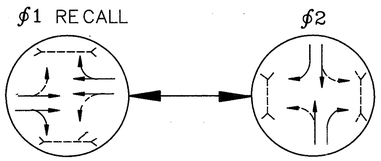
CALC. BY S.J.G. DATE 12/89	LAKE COUNTY LAK – 306 – 7.12	OHIO FHWA REGION 5	344 452
M.P.C. DATE 12/89			



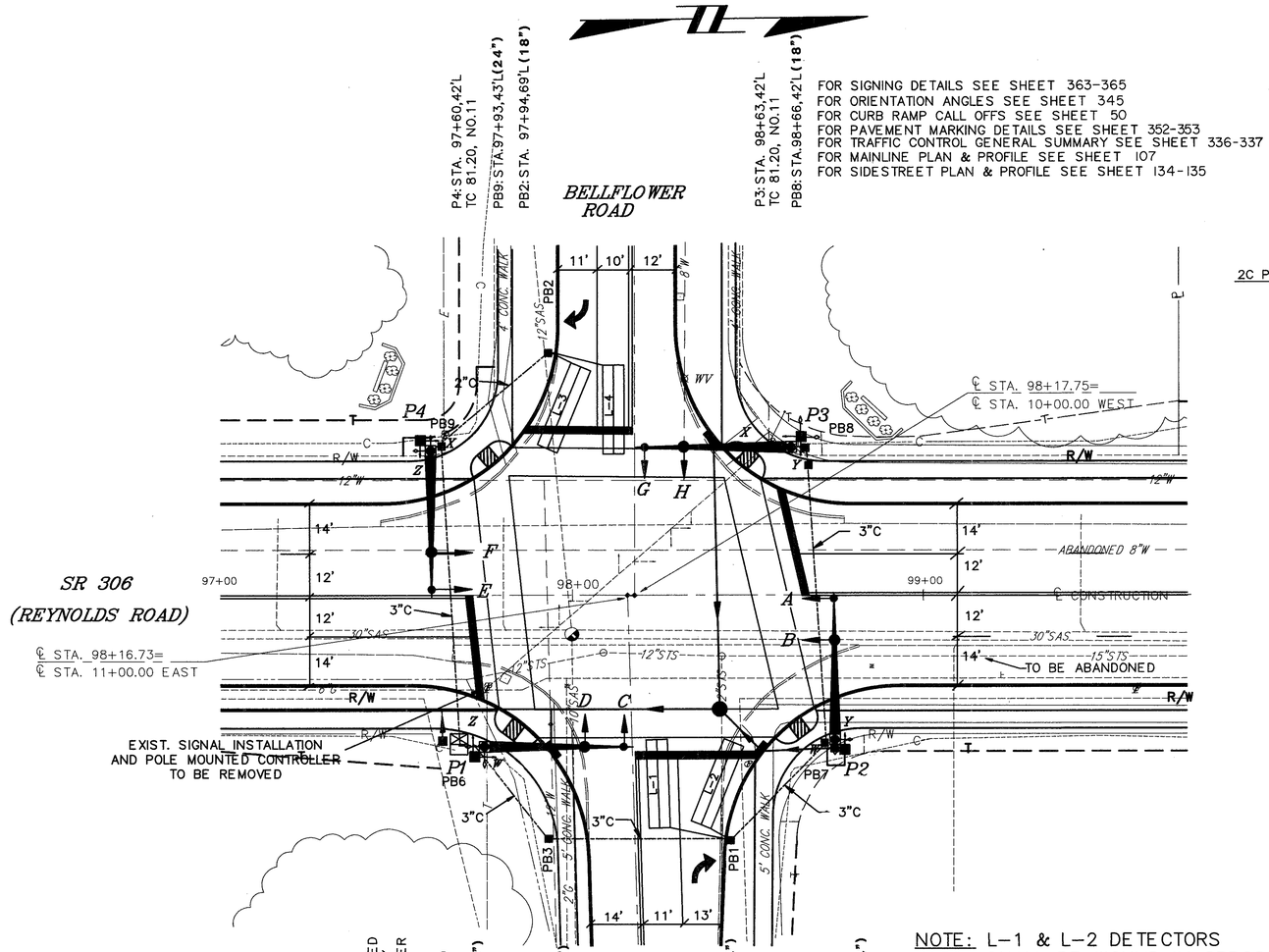
PHASING DIAGRAM

SIGNAL HEAD	ϕ1				ϕ2				FLASH	DWELL
	R/W		CLEAR		R/W		CLEAR			
A	G	G	Y	R	R	R	R	R	Y	G
B	G	G	Y	R	R	R	R	R	Y	G
C	R	R	R	R	G	G	Y	R	R	R
D	R	R	R	R	G	G	Y	R	R	R
E	G	G	Y	R	R	R	R	R	Y	G
F	G	G	Y	R	R	R	R	R	Y	G
G	R	R	R	R	G	G	Y	R	R	R
H	R	R	R	R	G	G	Y	R	R	R
W–W	W	FDW	DW	DW	DW	DW	DW	DW	OUT	DW
X–X	W	FDW	DW	DW	DW	DW	DW	DW	OUT	DW
Y–Y	DW	DW	DW	DW	W	FDW	DW	DW	OUT	DW
Z–Z	DW	DW	DW	DW	W	FDW	DW	DW	OUT	DW

SIGNAL SEQUENCE CHART

FUNCTION	ϕ1	ϕ2	
INITIAL GREEN	–	7.0	
MINIMUM GREEN	30.0	–	
VEHICLE EXTENSION	–	3.0	
MAXIMUM GREEN	–	22.0	
PEDESTRIAN WALK	17.0	7.0	
PEDESTRIAN CLEARANCE	13.0	15.0	
VEHICLE YELLOW CLEARANCE	3.0	3.0	
VEHICLE ALL RED CLEARANCE	1.0	1.0	
RECALL	YES	NO	
MEMORY	NO	NO	

SIGNAL TIMING CHART



POWER SOURCE: OBTAINED FROM RELOCATED UTILITY POLE W/ 2"CONDUIT RISER

CONTROLLER W/WORKPAD STA. 97+68,41'R

PB6: STA. 97+72,43'R(24")

P1: STA. 97+75,43'R TC81.20, NO.11

PB3: STA 97+93,70'R(18")

BELLFLOWER ROAD

PB1: STA. 98+46,70'R(24")

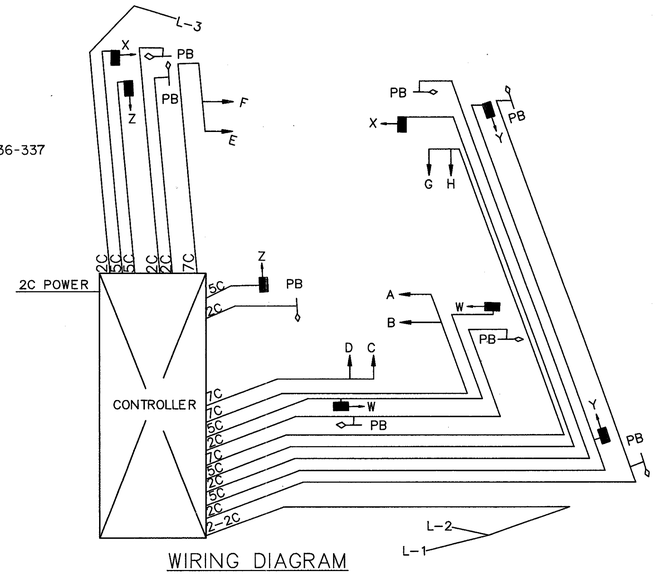
P2: STA. 98+75,42'R TC 81.20, NO. 11

PB7: STA. 98+72,43'R(24")

FOR SIGNING DETAILS SEE SHEET 363-365
FOR ORIENTATION ANGLES SEE SHEET 345
FOR CURB RAMP CALL OFFS SEE SHEET 50
FOR PAVEMENT MARKING DETAILS SEE SHEET 352-353
FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET 336-337
FOR MAINLINE PLAN & PROFILE SEE SHEET 107
FOR SIDESTREET PLAN & PROFILE SEE SHEET 134-135

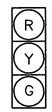
NOTE: L–1 & L–2 DETECTORS SHALL BE WOUND IN OPPOSITE DIRECTIONS.

NOTE: L–3 & L–4 DETECTORS SHALL BE WOUND IN OPPOSITE DIRECTIONS.



WIRING DIAGRAM

SUB SUMMARY			
ITEM	DESCRIPTION	UNIT	QTY
625	GROUND ROD	EACH	5
625	PULL BOX, 713.08, 18"	EACH	3
625	PULL BOX, 713.08, 24"	EACH	4
625	TRENCH	LIN FT	347
625	CONDUIT, 2", 713.07, TYPE DB	LIN FT	40
625	CONDUIT, 3", 713.07, TYPE DB	LIN FT	78
625	CONDUIT, CONCRETE ENCASED, 3",713.07	LIN FT	222
632	VEHICULAR SIGNAL HEADS, 3-SECTION, 12" LENS, 1-WAY, AS PER PLAN	EACH	8
632	PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN	EACH	8
632	PEDESTRIAN PUSHBUTTON	EACH	8
632	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	EACH	4
632	LOOP DETECTOR PAVEMENT CUTTING	LIN FT	389
632	CONCRETE FOR ANCHOR BASE FOUNDATION	CU YDS	10.64
632	SIGNAL SUPPORT, TYPE TC-81.20, DESIGN No.11, W/ 41' ARM	EACH	2
632	SIGNAL SUPPORT, TYPE TC-81.20, DESIGN No.11, W/ 43' ARM	EACH	2
632	CONDUIT RISER, 2" DIAMETER	EACH	1
632	CABLE SUPPORT ASSEMBLY	EACH	4
632	SIGNAL CABLE, 2-CONDUCTOR, 14AWG , AS PER PLAN	LIN FT	984
632	SIGNAL CABLE, 5-CONDUCTOR, 14 AWG	LIN FT	1016
632	SIGNAL CABLE, 7-CONDUCTOR, 14 AWG	LIN FT	794
632	LOOP DETECTOR WIRE, TYPE E	LIN FT	1012
632	LOOP DETECTOR LEAD-IN CABLE	LIN FT	252
632	POWER CABLE, 2-CONDUCTOR, 8 AWG	LIN FT	150
632	POWER SERVICE	EACH	1
632	COVERING OF VEHICULAR SIGNAL HEADS	EACH	8
632	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	EACH	1
633	CONTROLLER,ACTUATED,4 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN	EACH	1
633	CONCRETE FOR CABINET FOUNDATION	CU YDS	1.00
633	CONTROLLER WORK PAD	SQ FT	8.3



A,B,C,D, E,F,G,H

W–W
X–X
Y–Y
Z–Z

12" SIGNAL HEADS

LOOP	SIZE	TURNS	MODE	DELAY	PHASE	REMARK	INHIBITED DELAY	LOCATION 1st FRONT CORNER	LOCATION 2nd FRONT CORNER
L–1	6X25	2–4–2	PRESENCE		ϕ2	QUADRAPOLE		STA. 98+21, 42'R	STA. 98+27, 41'R
L–2	6X25	2–4–2	PRESENCE	7.0	ϕ2	QUADRAPOLE	ϕ2	STA. 98+44, 41'R	STA. 98+49, 44'R
L–3	6X25	2–4–2	PRESENCE		ϕ2	QUADRAPOLE		STA. 97+90, 43'L	STA. 97+96, 41'L
L–4	6X25	2–4–2	PRESENCE	7.0	ϕ2	QUADRAPOLE	ϕ2	STA. 98+09, 41'R	STA. 98+15, 41'R

NOTE: SEE SHEET 349 FOR ADDITIONAL LOOP DETECTOR UNITS TO BE INSTALLED IN CONTROLLER AT THIS LOCATION.

LOOP DETECTOR CHART

LAK – 306 – 7.12

REYNOLDS RD \ BELLFLOWER RD SIGNAL PLAN