

SUPPORT NO.	SIGNAL SUPPORT		FOUNDATION					ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"										
	TC-81.20	TC-12.30	STATION	OFFSET	L	L 1	L 2	L 3	X 1	MAST ARM A ANGLE (DEG.)	MAST ARM B	PEDESTRIAN SIGNALS	PEDESTRIAN PUSH BUTTONS	POWER SERVICE	CONTROLLER	LUMINAIRE BRACKET	HANDHOLE	CABLE ENTRANCE (12" FROM TOP)
P1	EX.		69+48	27'L	41	28	40			EX.		0	0	180				
P2	11		69+46	47'R	42	29	41			0		270	270					180
P3	PED		68+65	38'R								0	0					180
P4	EX.		68+84	28'L	25	14	24			EX.								EX.
P5	EX.		68+29	28'R	23	1	22			EX.								EX.
P6	1	1	67+83	24'R	24	13	21			90		0	90					180
P7	2	2	67+92	29'L	25	14	24			0		0	90					180
P8	PED		68+20	30'L								0	90					180

ORIENTATION ANGLE CHART

FUNCTION	Ø1	Ø2	Ø3
MINIMUM GREEN	28	8	8
PED WALK	7	7	7
PED CLEARANCE	21	13	13
GREEN EXTENSION	3.0	2.5	2.5
MAXIMUM GREEN	74	26	20
YELLOW CLEARANCE	4.6	3.1	3.1
ALL RED CLEARANCE	1.9	1.4	1.9
RECALL	PED	NONE	NONE

SIGNAL TIMING

- REMAINS GREEN IF Ø3 IS NEXT
- REMAINS GREEN IF Ø2 IS NEXT
- REMAINS GREEN IF Ø1 IS NEXT

SIGNAL HEAD	Ø1			Ø2			Ø3			FLASH
	R/W	Y	CLEAR	R/W	Y	CLEAR	R/W	Y	CLEAR	
A	G	G	Y	R	R	R	R	R	R	Y
B	G	G	Y	R	R	R	R	R	R	Y
C	G	G	Y	R	R	R	R	R	R	Y
D	G	G	Y	R	R	R	R	R	R	Y
E	R	R	R	G	G	Y	R	R	R	R
F	R	R	R	G	G	Y	R	R	R	R
G	R	R	R	R	R	R	G	G	Y	R
H	R	R	R	R	R	R	G	G	Y	R
J	G	G	Y(1)	R(1)	R	R	G	G	Y	Y
K	G	G	Y(1)	R(1)	R	R	G	G	Y	Y
L	G	G	Y(2)	R(2)	G	G	Y(3)	R(3)	R	Y
M	G	G	Y(2)	R(2)	G	G	Y(3)	R(3)	R	Y
W-W	DW	FDW	DW	DW	DW	DW	DW	DW	DW	DW
X-X	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW
Y-Y	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW
Z-Z	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW

SIGNAL DISPLAY CHART

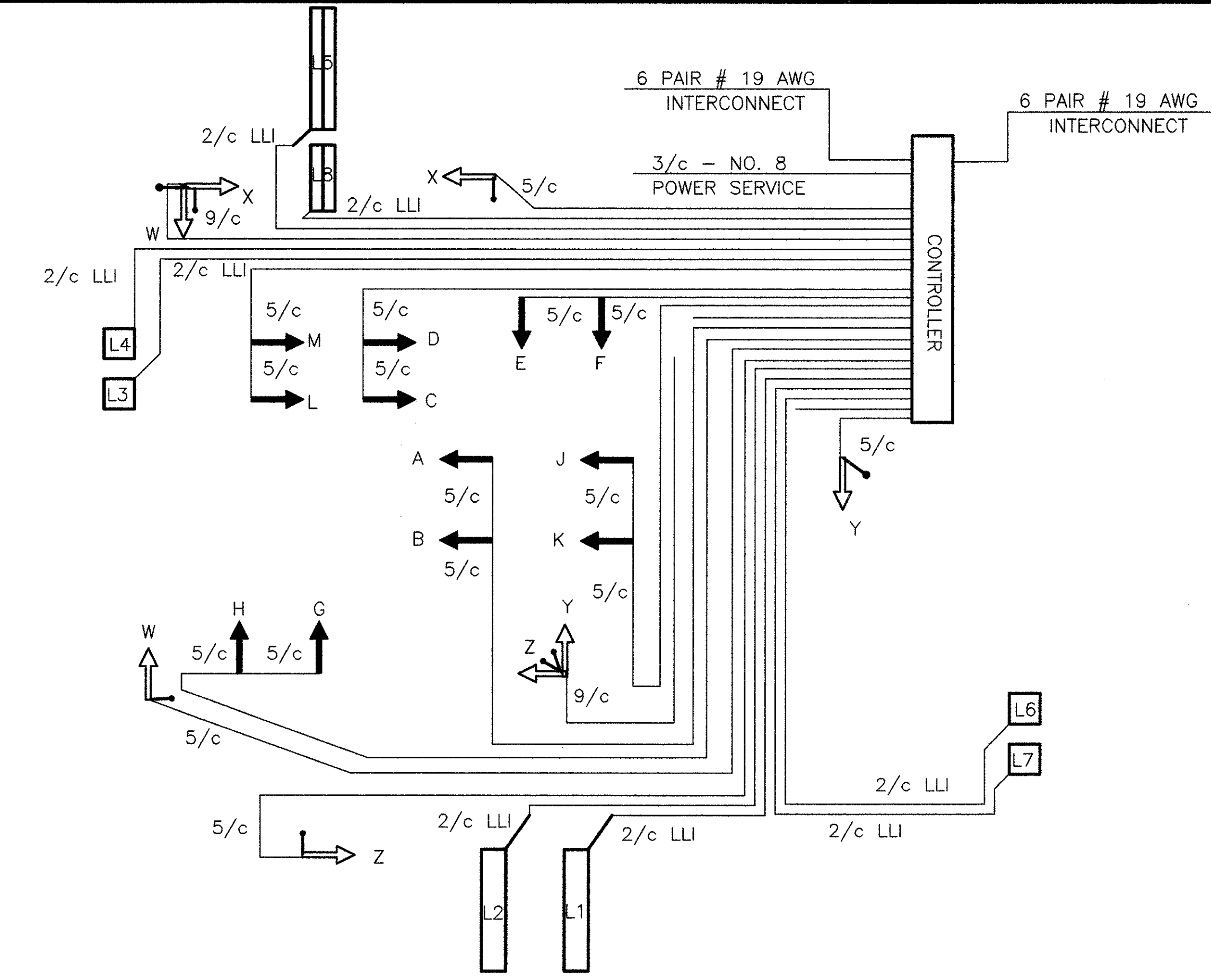
- NOTES:
- PHASE SPLITS SHALL INCLUDE ALL GREEN PLUS YELLOW & ALL RED
 - PERMISSIVES SHALL START AT THE ZERO POINT OF THE CYCLE
 - OFFSETS SHALL BE REFERENCED TO THE BEGINNING OF PHASE 1 YELLOW

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	90 SEC	110 SEC	120 SEC
PHASE 1 SPLIT	74 %	62 %	66 %
PHASE 2 SPLIT	13 %	27 %	23 %
PHASE 3 SPLIT	13 %	11 %	11 %
PERMISSIVE	10 %	10 %	10 %
OFFSET	90 %	69 %	77 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 2:30PM 6:30PM TO 9:00PM MON-SAT	2:30PM TO 6:30PM MON-SAT

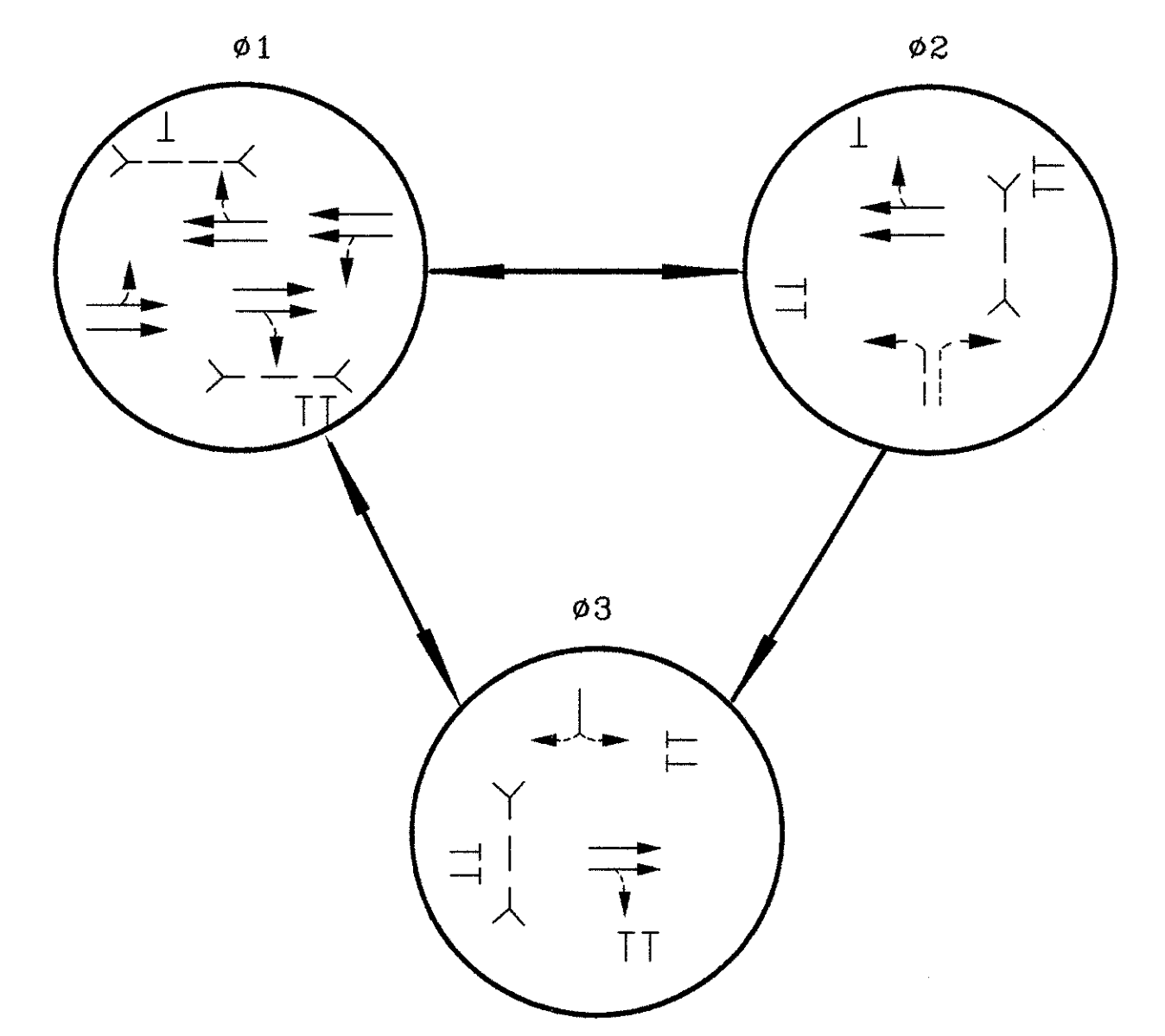
COORDINATION TIMING

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT #	PHASE
L1	6' x 35'	2	PRESENCE	8	1	2
L2	6' x 35'	2	PRESENCE	0	2	2
L3	4' x 4'	3	PRESENCE	0	3	SYSTEM
L4	4' x 4'	3	PRESENCE	0	4	SYSTEM
L5	4' x 30'	2-4-2	PRESENCE	5	5	3
L6	4' x 4'	3	PRESENCE	0	6	SYSTEM
L7	4' x 4'	3	PRESENCE	0	7	SYSTEM
L8	4' x 20'	2-4-2	PRESENCE	8	8	3

LOOP DETECTOR CHART



WIRING DIAGRAM



PHASING DIAGRAM

ITEM	TOTAL	UNIT	DESCRIPTION
202	19	LIN FT	CURB REMOVED
202	790	SQ FT	WALK REMOVED
608	790	SQ FT	4" CONCRETE WALK
608	1	EACH	CURB RAMP, TYPE 1
608	1	EACH	CURB RAMP, TYPE 2
625	8	EACH	GROUND ROD
625	5	EACH	PULLBOX, 18", AS PER PLAN
625	2	EACH	PULLBOX, 24", AS PER PLAN
625	304	LIN FT	CONDUIT, 2", 713.04
625	30	LIN FT	CONDUIT, 3", 713.04
625	204	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	316	LIN FT	TRENCH
630	16	LIN FT	GROUND MOUNTED SUPPORT, NO. 3 POST
630	5	SQ. FT	SIGN, FLAT SHEET, TYPE G
630	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE
630	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
632	8	EACH	VEHICULAR SIGNAL HEAD, 3 SECTION, 12" LENS, 1-WAY, AS PER PLAN
632	4	EACH	VEHICULAR SIGNAL HEAD, OPTIC. PROGRAMMED, 3-SECT, 12" LENS, 1-WAY
632	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	8	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2
632	8	EACH	PEDESTRIAN PUSHBUTTON
632	5	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	3	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	6.40	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	2	EACH	PEDESTAL, 8", TRANSFORMER BASE
632	6	EACH	CABLE SUPPORT ASSEMBLY
632	508	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	2002	LIN FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	369	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	1344	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	1371	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	28	LIN FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	1	EACH	CONDUIT RISER, 2" DIAMETER
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DESIGN 1, 24' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DESIGN 2, 25' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DESIGN 11, 42' ARM
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	1	EACH	CONTROLLER, ACTUATED, 3 PHASE, SOLID STATE, DIGITAL, MICROPROCESSOR, AS PER PLAN
642	46	LIN FT	REMOVAL OF PAVEMENT MARKING