

NOTES:
1. ALL ANGLES MEASURED CLOCKWISE.
2. BASE PLATE IS ORIENTED SQUARE TO MAST ARM A (LARGEST ARM) EVEN IF SUPPORT HAS TWO MAST ARMS.

SUPPORT NO.	SIGNAL SUPPORT		FOUNDATION					ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"										
	TC-81.20	TC-12.30	STATION	OFFSET	L	L1	L2	L3	X1	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	3	3	294+12	43'R	34	20	33			0	180	0	0					180
P2	11	11	293+06	66'R	39	25	38			90	180	0	0					180
P3	12	12	292+88	44'L	45	29	44			0	180	0	0					180
P4	PEL		293+02	55'L						0	180	0	0					180
P5	12	12	294+07	41'L	46	31	45			90	180	0	0					180

ORIENTATION ANGLE CHART

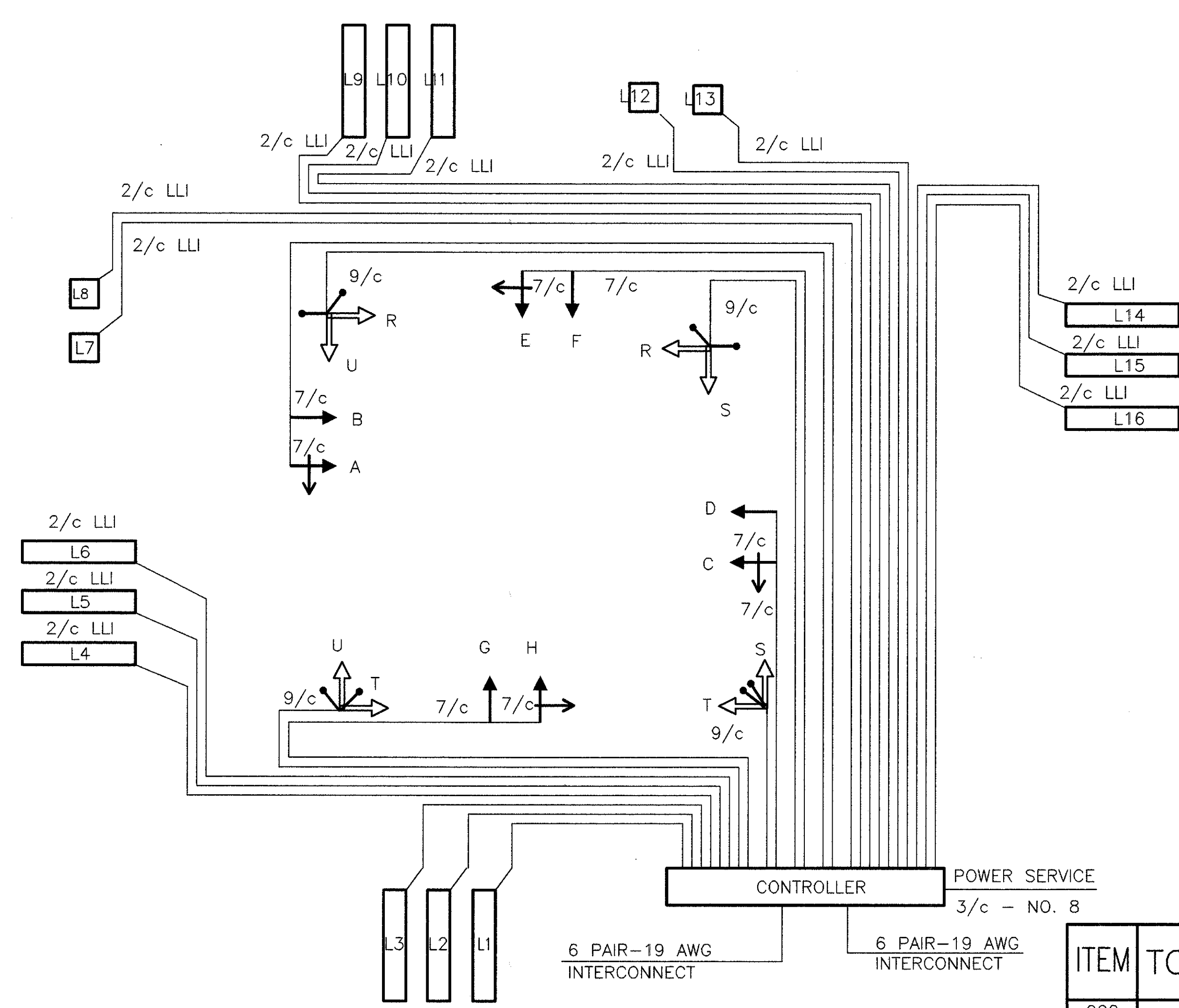
INTERVAL	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
MINIMUM GREEN	7	27	7	33	7	27	7	33
PED WALK		7		7		7		7
PED CLEARANCE		20		26		20		26
GREEN EXTENSION	2.5	3.0	2.5	3.0	2.5	3.0	2.5	3.0
MAXIMUM GREEN	20	40	8	40	7	40	8	40
YELLOW CLEARANCE	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
ALL RED CLEARANCE	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
RECALL	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

SIGNAL TIMING

- REMAINS R/G IF Ø2 & Ø5 NEXT
- REMAINS R/G IF Ø1 & Ø6 NEXT
- REMAINS R/G IF Ø4 & Ø7 NEXT
- REMAINS R/G IF Ø3 & Ø8 NEXT
- REMAINS R/G IF Ø4 & Ø7 NEXT

SIGNAL HEAD	Ø1 & Ø5		Ø1 & Ø6		Ø2 & Ø5		Ø2 & Ø6		Ø3 & Ø7		Ø3 & Ø8		Ø4 & Ø7		Ø4 & Ø8		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	R/G	R/G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
C	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
D	R/G	R/G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
F	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
H	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
R-R	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
S-S	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
T-T	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
U-U	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

SIGNAL DISPLAY CHART



WIRING DIAGRAM

- 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 2 YELLOW

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	100	120	110
PHASE 1 SPLIT	19 %	27 %	19 %
PHASE 2 SPLIT	34 %	33 %	37 %
PHASE 3 SPLIT	13 %	11 %	11 %
PHASE 4 SPLIT	34 %	29 %	33 %
PHASE 5 SPLIT	14 %	11 %	18 %
PHASE 6 SPLIT	39 %	49 %	38 %
PHASE 7 SPLIT	13 %	11 %	11 %
PHASE 8 SPLIT	34 %	29 %	33 %
PERMISSIVE	5 %	5 %	5 %
OFFSET	12 %	2 %	4 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

COORDINATION TIMING

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT #	PHASE
L1	6' x 30'	2	PRESENCE	8	1	4
L2	6' x 30'	2	PRESENCE	0	2	4
L3	6' x 30'	2	PRESENCE	0	3	7
L4	6' x 30'	2	PRESENCE	8	4	7
L5	6' x 30'	2	PRESENCE	0	5	6
L6	6' x 30'	2	PRESENCE	0	6	1
L7	6' x 6'	3	PRESENCE	0	7	SYSTEM
L8	6' x 6'	3	PRESENCE	0	8	SYSTEM
L9	6' x 30'	2	PRESENCE	8	9	8
L10	6' x 30'	2	PRESENCE	0	10	8
L11	6' x 30'	2	PRESENCE	0	11	3
L12	6' x 6'	3	PRESENCE	0	12	SYSTEM
L13	6' x 6'	3	PRESENCE	0	13	SYSTEM
L14	6' x 30'	2	PRESENCE	8	14	2
L15	6' x 30'	2-4-2	PRESENCE	0	15	2
L16	6' x 30'	2-4-2	PRESENCE	0	16	5

LOOP DETECTOR CHART

ITEM	TOTAL	UNIT	DESCRIPTION
202	105	SQ FT	WALK REMOVED
608	105	SQ FT	4" CONCRETE WALK
625	6	EACH	GROUND ROD
625	7	EACH	PULLBOX, MISC. AS PER PLAN
625	205	LIN FT	CONDUIT, 2", 713.04
625	5	LIN FT	CONDUIT, 4", 713.04
625	269	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	128	LIN FT	TRENCH
625	82	LIN FT	TRENCH IN PAVED AREA, TYPE "B"
632	3	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 1-WAY, AS PER PLAN
632	5	EACH	VEHICULAR SIGNAL HEAD, 5 SECT., 12" LENS, 1-WAY, AS PER PLAN
632	8	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2
632	8	EACH	PEDESTRIAN PUSHBUTTON
632	12	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	4	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	10.56	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 3, WITH 34' ARM, AS PER PLAN
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 11, WITH 39' ARM, AS PER PLAN
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12, WITH 45' ARM, AS PER PLAN
632	1	EACH	PEDESTAL, 8", TRANSFORMER BASE, AS PER PLAN
632	4	EACH	CABLE SUPPORT ASSEMBLY
632	1371	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	797	LIN FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	633	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	1	EACH	PHONE DROP
632	3492	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	2401	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	84	LIN FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	1	EACH	CONDUIT RISER, 1 1/2"
632	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	10.4	SQ FT	CONTROLLER WORK PAD
633	1.85	CU YD	CONCRETE FOR CABINET FOUNDATION
633	1	EACH	CONTROLLER, ACTUATED, 8 PHASE SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN
633	1	EACH	CONTROLLER, MASTER, TRAFFIC RESPONSIVE, AS PER PLAN