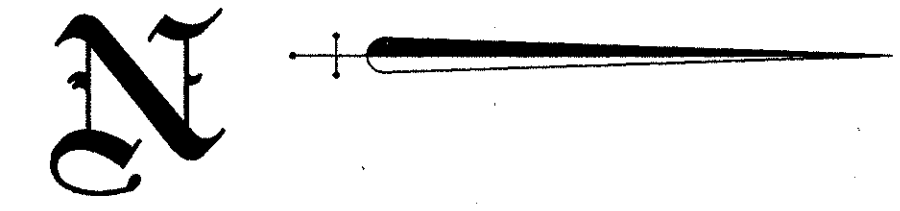


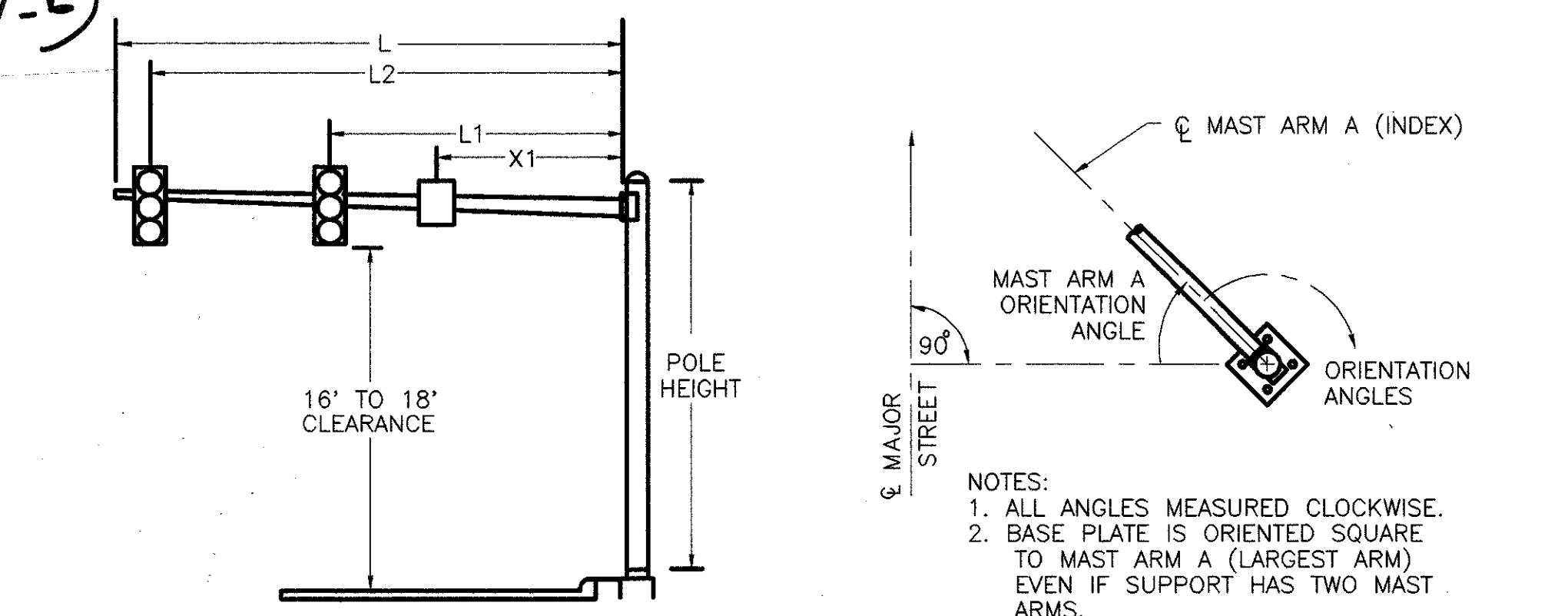
81-9



NOTES:
 1. PHASE SPLITS SHALL INCLUDE ALL GREEN PLUS YELLOW & ALL RED
 2. PERMISSIVES SHALL START AT THE ZERO POINT OF THE CYCLE
 3. OFFSETS SHALL BE REFERENCED TO THE BEGINNING OF PHASE 2 YELLOW

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	90	100	110
PHASE 1 SPLIT	21 %	13 %	33 %
PHASE 2 SPLIT	58 %	45 %	48 %
PHASE 4 SPLIT	21 %	42 %	19 %
PERMISSIVE	10 %	10 %	10 %
OFFSET	0 %	0 %	0 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

COORDINATION TIMING



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							ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"									
	TC-81.20		TC-12.30														
	POLE DESIGN NO.	MAST ARM DES.	FOUNDATION	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	12	12	132+59	48'R	45	26	44		0	0	0					180	
P2	12	12	131+77	41'R	45	32	44		90	270	270					180	
P3	4	4	131+72	46'L	37	24	36		0	0	0					180	
P4	3	3	132+59	38'L	35	24	34		90	0	0					180	

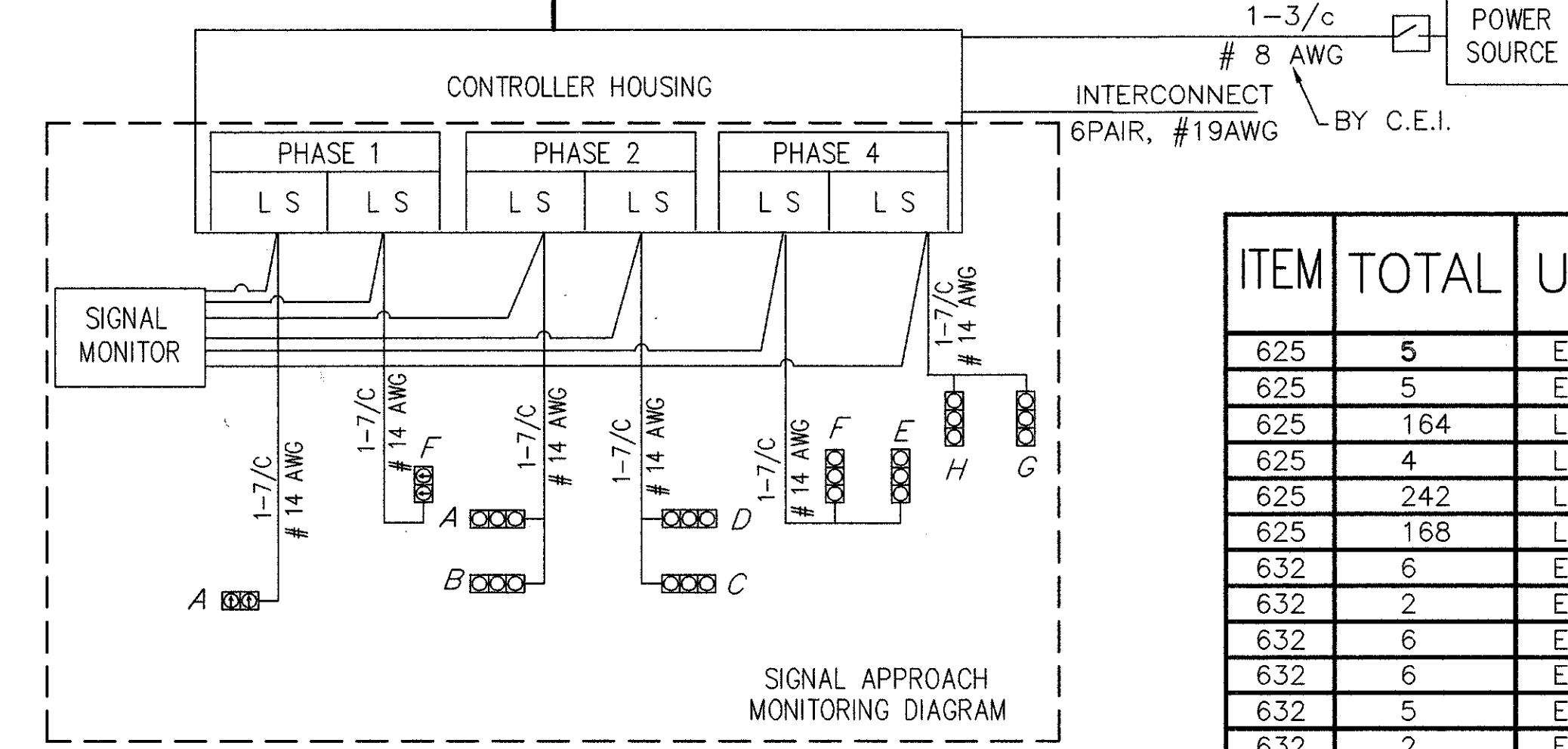
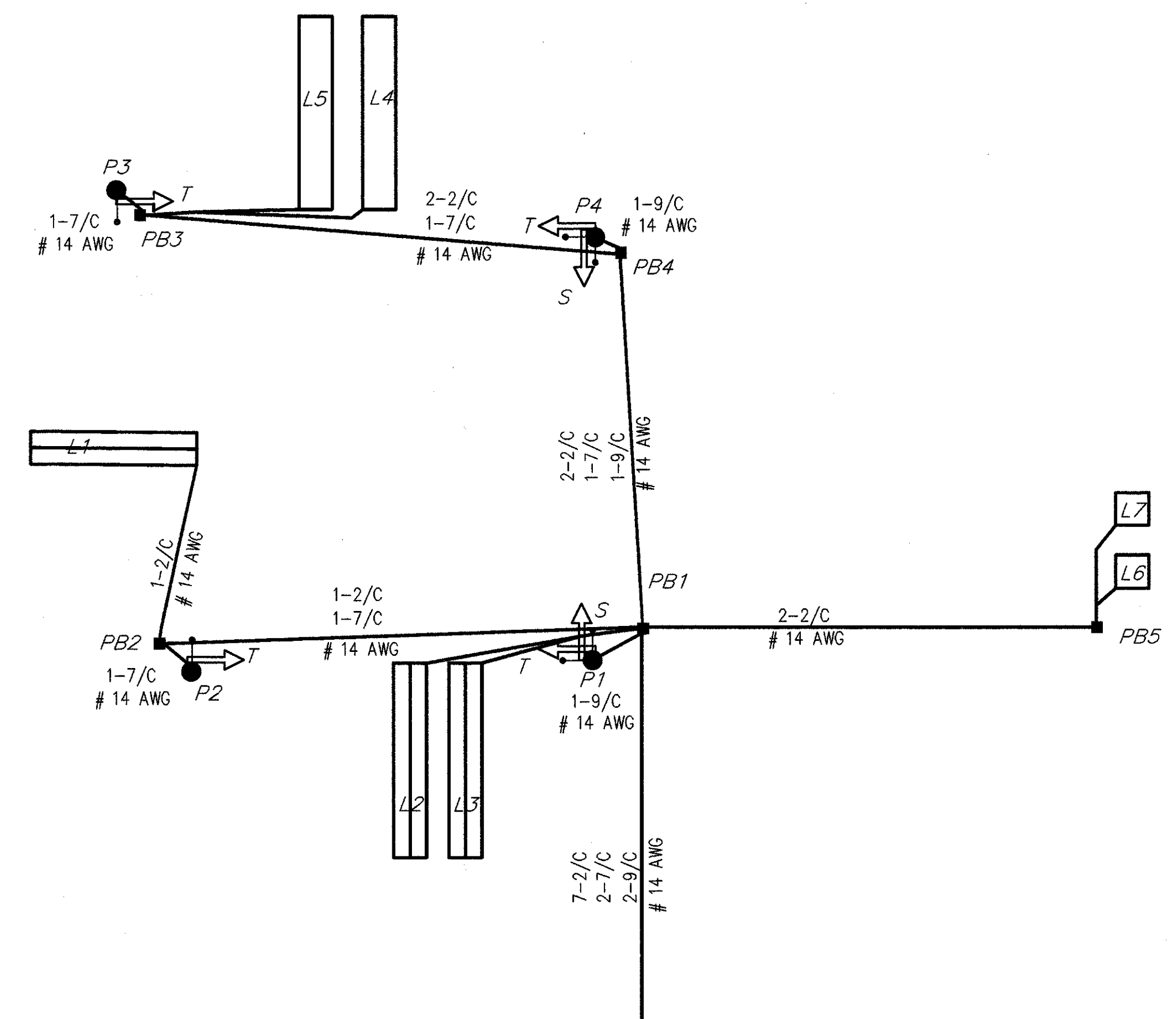
ORIENTATION ANGLE CHART

FUNCTION	ø1	ø2	ø4
MINIMUM GREEN	7	22	8
PED WALK	-	7	7
PED CLEARANCE	-	15	10
GREEN EXTENSION	2.5	-	3.5
MAXIMUM GREEN	15	45	25
YELLOW CLEARANCE	3.6	3.6	3.1
ALL RED CLEARANCE	1.6	1.6	1.6
RECALL	NONE	PED	NONE

SIGNAL TIMING

SIGNAL HEAD	ø1		ø2		ø4		FLASH			
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR				
A	←G/G	←Y/G	G	G	Y	R	R	R	R	Y
B	G	G	G	G	Y	R	R	R	R	Y
C	R	R	R	G	Y	R	R	R	R	Y
D	R	R	R	G	Y	R	R	R	R	Y
E	R	R	R	R	R	R	G	G	Y	R
F	R/⊕	R/⊕	R	R	R	R	G	G	Y	R
G	R	R	R	R	R	R	G	G	Y	R
H	R	R	R	R	R	R	G	G	Y	R
S-S	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW
T-T	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW

SIGNAL DISPLAY CHART



WIRING DIAGRAM

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

LOOP DETECTOR CHART

ITEM	TOTAL	UNIT	DESCRIPTION
625	5	EACH	GROUND ROD
625	5	EACH	PULLBOX, MISC. AS PER PLAN
625	164	LIN FT	CONDUIT, 2", 713.04
625	4	LIN FT	CONDUIT, 3", 713.04
625	242	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	168	LIN FT	TRENCH
632	6	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 1 WAY, AS PER PLAN
632	2	EACH	VEHICULAR SIGNAL HEAD, 5 SECT., 12" LENS, 1 WAY, AS PER PLAN
632	6	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2
632	6	EACH	PEDESTRIAN PUSHBUTTON
632	5	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	2	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	10.2	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 3, WITH 35' ARM
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12, WITH 45' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 4, WITH 37' ARM
632	4	EACH	CABLE SUPPORT ASSEMBLY
632	697	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	1019	LIN FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	156	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	1814	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	694	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	78	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	8.33	SQ FT	CONTROLLER WORK PAD
633	0.99	CU YD	CONCRETE FOR CABINET FOUNDATION
633	1	EACH	CONTROLLER, ACTUATED, 4 PHASE, SOLID-STATE DIGITAL, MICROPROCESSOR, AS PER PLAN