

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		FOUNDATION		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	HAND-HOLE	CABLE ENTRANCE (12" FROM TOP)
	TC-81.20	TC-12.30	ARM DESIGN NO.	POLE HEIGHT (FT)	STATION	OFFSET	(FT.)	(FT.)	(FT.)	(FT.)	(FT.)													
P1	12		12	22.5'	327+37	51'R	48	23	35	47	44	0	0	0	0	0	0	0	0	0	180			
P2	3		3	22.5'	326+59	59'R	30	19	29			90	0	0	0	0	0	0	0	0	180			
P3	12		12	22'	326+62	52'L	48	23	35	47	44	0	0	0	0	0	0	0	0	0	180			
P4	3		3	22'	327+32.5	54'L	33	22	32			90	0	0	0	0	0	0	0	0	180			

ORIENTATION ANGLE CHART

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 1 YELLOW

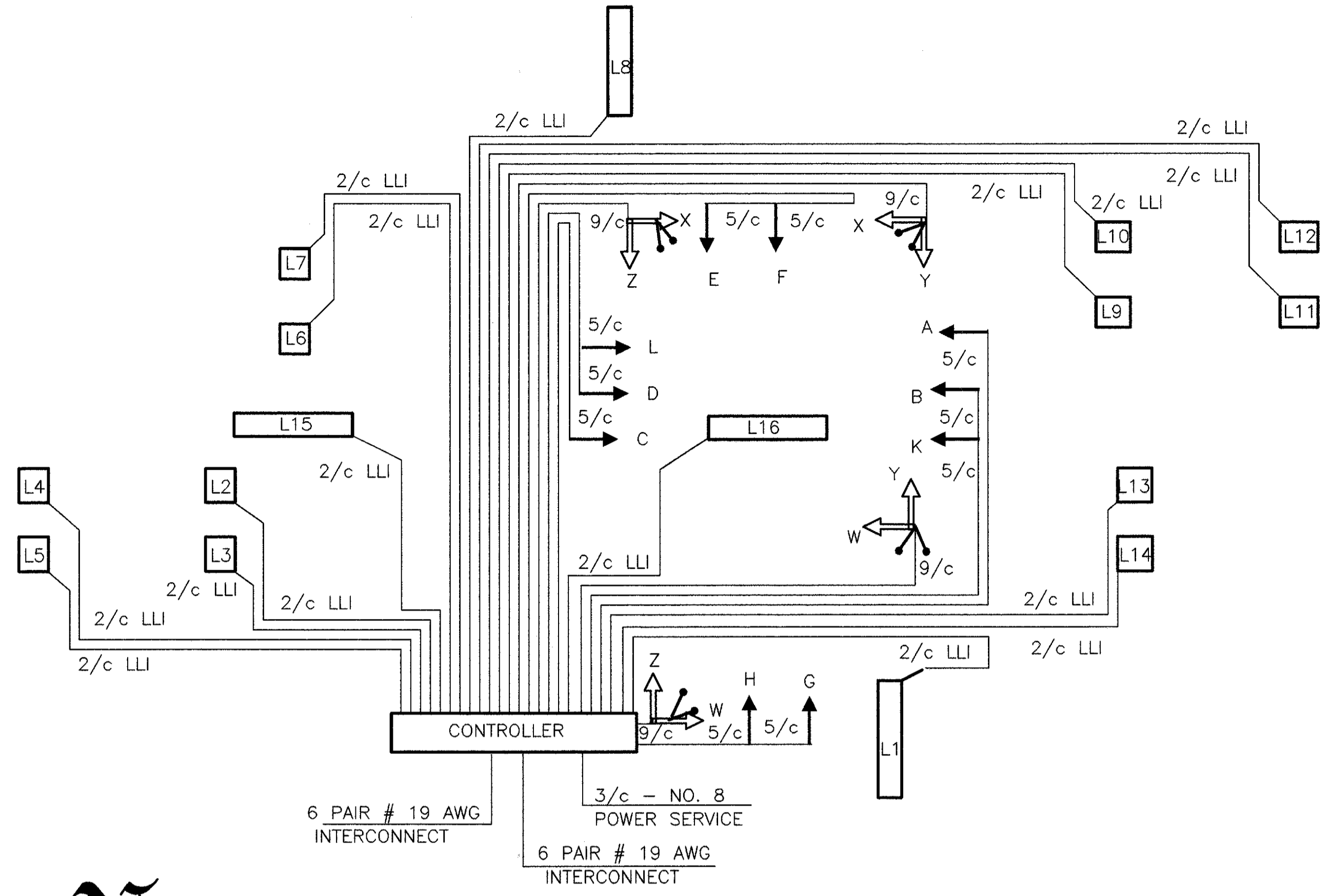
	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	80 SEC	100 SEC	90 SEC
PHASE 1 SPLIT	16 %	16 %	24 %
PHASE 2 SPLIT	62 %	64 %	58 %
PHASE 4 SPLIT	22 %	20 %	18 %
PHASE 5 SPLIT	16 %	16 %	24 %
PHASE 6 SPLIT	62 %	64 %	58 %
PERMISSIVE	5 %	5 %	5 %
OFFSET	43 %	83 %	21 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 2:30PM 6:30PM TO 9:00PM MON-SAT	2:30PM TO 6:30PM MON-SAT

COORDINATION TIMING

1. REMAINS 66 IF 02 & 05 NEXT
2. REMAINS 66 IF 01 & 06 NEXT

SIGNAL HEAD	01 & 05		01 & 06		02 & 05		02 & 06		04		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	R	R	R	R	R	R	R	R	R	R	Y
B	R	R	R	R	R	R	R	R	R	R	Y
C	R	R	R	R	R	R	R	R	R	R	Y
D	R	R	R	R	R	R	R	R	R	R	Y
E	R	R	R	R	R	R	R	R	R	R	Y
F	R	R	R	R	R	R	R	R	R	R	Y
G	R	R	R	R	R	R	R	R	R	R	Y
H	R	R	R	R	R	R	R	R	R	R	Y
K	R	R	R	R	R	R	R	R	R	R	Y
L	R	R	R	R	R	R	R	R	R	R	Y
W-W	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
X-X	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Y-Y	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Z-Z	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

SIGNAL DISPLAY CHART



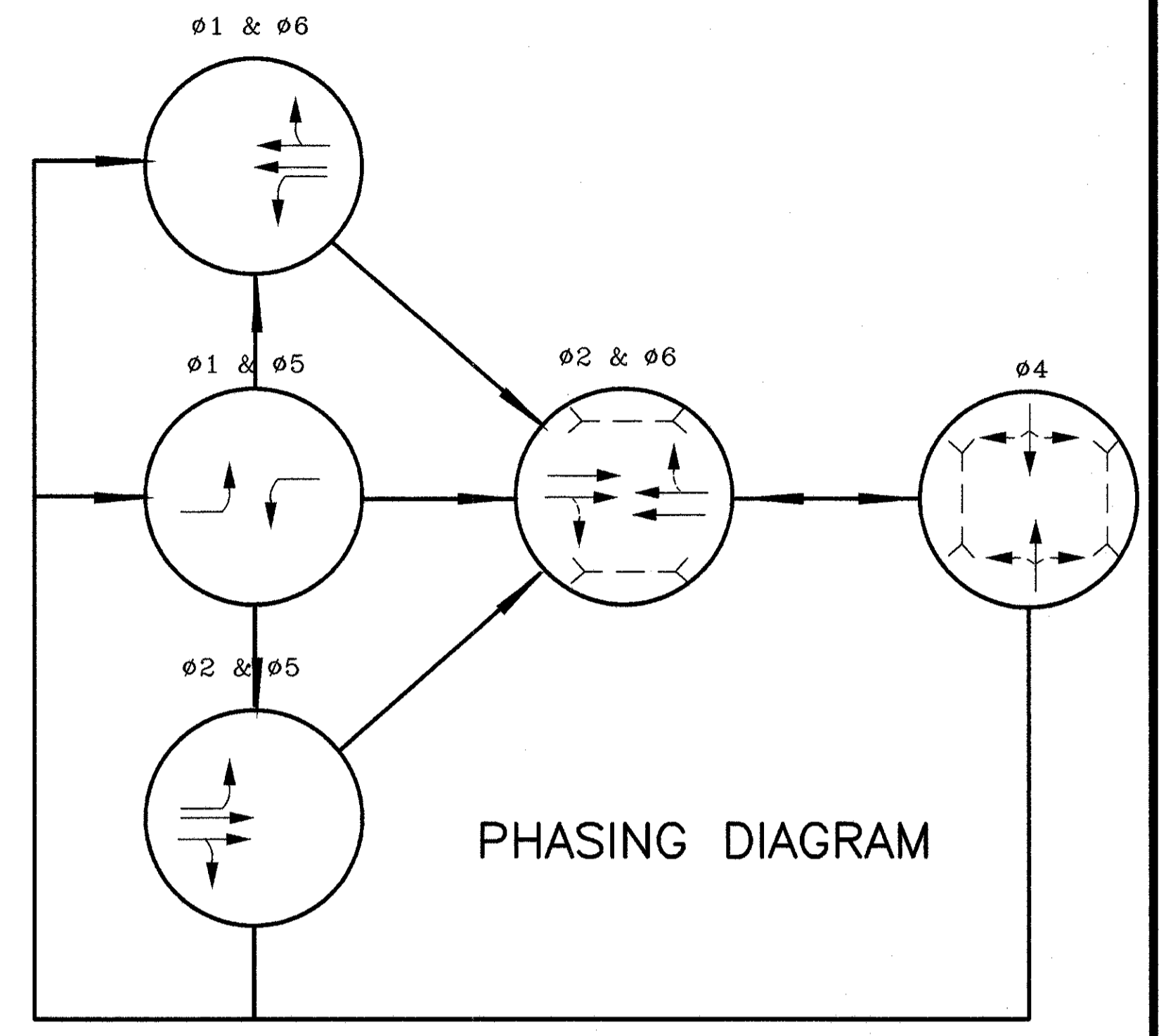
WIRING DIAGRAM

FUNCTION	01	02	04	05	06
MINIMUM GREEN	7	20	8	7	20
PED WALK	-	7	5	-	7
PED CLEARANCE	-	13	23	-	13
GREEN EXTENSION	2.5	3.0	3.0	2.5	3.0
MAXIMUM GREEN	17	58	28	17	58
YELLOW CLEARANCE	3.4	3.4	3.4	3.4	3.4
ALL RED CLEARANCE	1.9	1.9	1.9	1.9	1.9
RECALL	NONE	PED	NONE	NONE	PED

SIGNAL TIMING

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT #	PHASE
L1	6' x 30'	2	PRESENCE	8	1	4
L2	6' x 6'	3	PRESENCE	0	2	2
L3	6' x 6'	3	PRESENCE	0	3	2
L4	6' x 6'	3	PRESENCE	0	4	2
L5	6' x 6'	3	PRESENCE	0	5	2
L6	6' x 6'	3	PRESENCE	0	6	SYSTEM
L7	6' x 6'	3	PRESENCE	0	7	SYSTEM
L8	6' x 40'	2	PRESENCE	8	8	4
L9	6' x 6'	3	PRESENCE	0	9	6
L10	6' x 6'	3	PRESENCE	0	10	6
L11	6' x 6'	3	PRESENCE	0	11	6
L12	6' x 6'	3	PRESENCE	0	12	6
L13	6' x 6'	3	PRESENCE	0	13	SYSTEM
L14	6' x 6'	3	PRESENCE	0	14	SYSTEM
L15	6' x 40'	2	PRESENCE	0	15	5
L16	6' x 40'	2	PRESENCE	0	16	1

LOOP DETECTOR CHART



PHASING DIAGRAM

ITEM	TOTAL	UNIT	DESCRIPTION
625	4	EACH	GROUND ROD
625	10	EACH	PULLBOX, 18", AS PER PLAN
625	1	EACH	PULLBOX, 24", AS PER PLAN
625	915	LIN FT	CONDUIT, 2", 713.04
625	18	LIN FT	CONDUIT, 3", 713.04
625	217	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	933	LIN FT	TRENCH
630	2	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	10	SQ FT	SIGN, FLAT SHEET, TYPE G
632	10	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 1 WAY, AS PER PLAN
632	8	EACH	PEDESTRIAN SIGNAL HEAD, TYPE "D-2"
632	8	EACH	PEDESTRIAN PUSHBUTTON
632	14	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	2	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	9.18	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 3, WITH 30' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 3, WITH 33' ARM
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12, WITH 48' ARM
632	4	EACH	CABLE SUPPORT ASSEMBLY
632	857	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	1241	LIN FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	614	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	2458	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	3984	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	98	LIN FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	1	EACH	POWER SERVICE, AS PER PLAN
632	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	10.42	SQ FT	CONTROLLER WORK PAD
642	1	EACH	CONTROLLER, ACTUATED, 5 PHASE, SOLID-STATE DIGITAL, MICROPROCESSOR, AS PER PLAN
642	0.01	MILE	CENTER LINE, TYPE 2
642	16	LIN FT	STOP LINE, TYPE 2
642	13	LIN FT	REMOVAL OF PAVEMENT MARKING