

SUPPORT NO.	SIGNAL SUPPORT		TC-81.20 TC-12.30					ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"										
	POLE DESIGN NO.	ARM DESIGN NO.	POLE HEIGHT (FT)	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	HANDHOLE	CABLE ENTRANCE (12" FROM TOP)
P1	12	12	22'	311+53	50'R	47	22	34	46	43	0	0	0				180	
P2	11	11	21.5'	310+67	53'R	39	28	38		90	0	0				180		
P3	12	12	21.5'	310+67	51'L	47	22	34	46	43	0	270	270				180	
P4	11	11	21.5'	311+53	52'L	39	28	38		90	0	0				180		
P5	PED		8.0'	310+89	66'L						180	180				180		
P6	PED		8.0'	311+23	84'L						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

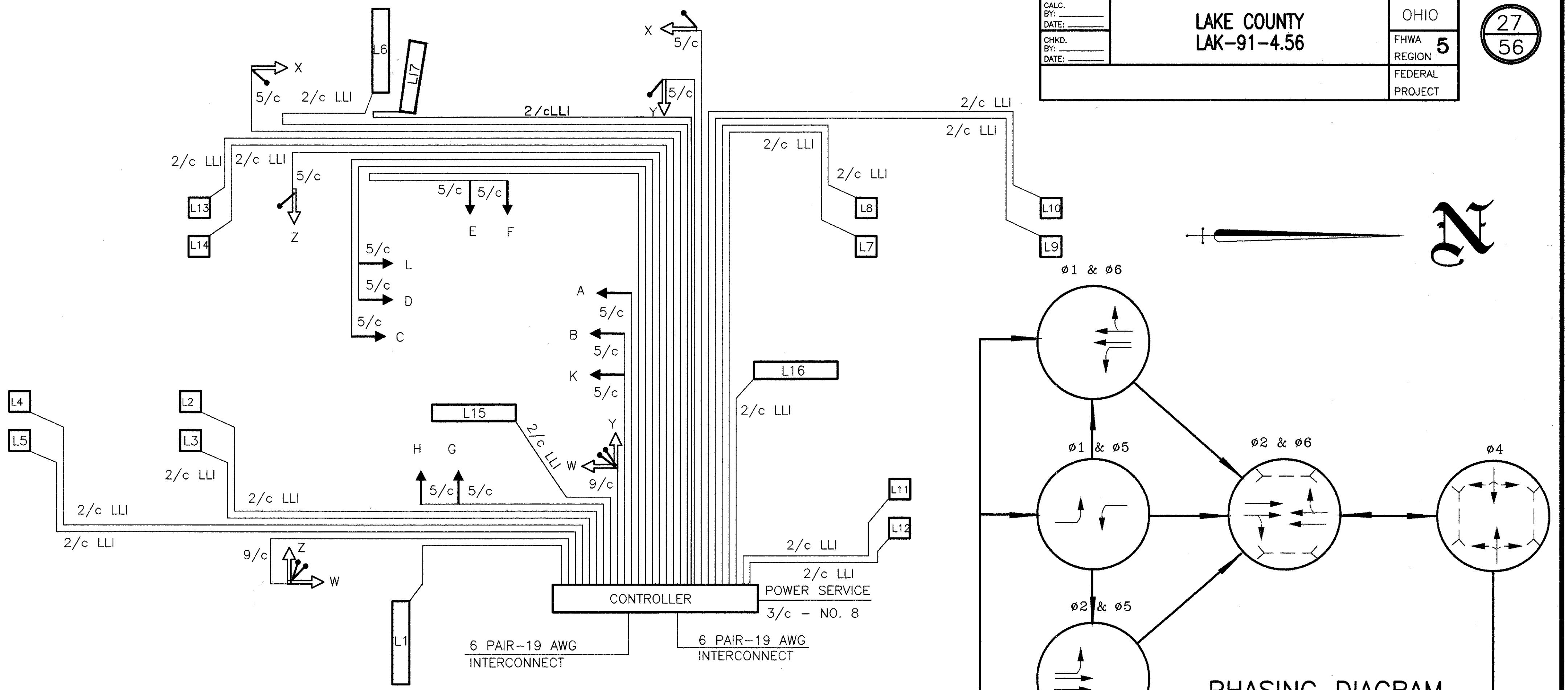
	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	80 SEC	100 SEC	90 SEC
PHASE 1 SPLIT	21 %	23 %	16 %
PHASE 2 SPLIT	57 %	57 %	66 %
PHASE 4 SPLIT	22 %	20 %	18 %
PHASE 5 SPLIT	21 %	23 %	16 %
PHASE 6 SPLIT	57 %	57 %	66 %
PERMISSIVE	5 %	5 %	5 %
OFFSET	83 %	4 %	23 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 2:30PM 6:30PM TO 9:00PM MON-SAT	2:30PM TO 6:30PM MON-SAT

COORDINATION TIMING

1. REMAINS \emptyset IF $\emptyset 2$ & $\emptyset 5$ NEXT
 2. REMAINS \emptyset IF $\emptyset 1$ & $\emptyset 6$ NEXT

SIGNAL HEAD	$\emptyset 1$ & $\emptyset 5$		$\emptyset 1$ & $\emptyset 6$		$\emptyset 2$ & $\emptyset 5$		$\emptyset 2$ & $\emptyset 6$		$\emptyset 4$		FLASH	
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR		
A	\emptyset	\emptyset	R	R	R	\emptyset	\emptyset	R	R	R	R	Y
B	R	R	R	R	R	G	G	G	G	Y	R	Y
C	\emptyset	\emptyset	R	R	R	R	R	R	R	R	R	Y
D	R	R	R	G	G	R	R	R	G	G	Y	Y
E	R	R	R	R	R	R	R	R	R	R	G	Y
F	R	R	R	R	R	R	R	R	R	R	G	Y
G	R	R	R	R	R	R	R	R	R	R	G	Y
H	R	R	R	R	R	R	R	R	R	R	G	Y
K	R	R	R	R	R	G	G	G	G	Y	R	Y
L	R	R	R	G	G	R	R	R	G	G	Y	Y
W-W	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW
X-X	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW
Y-Y	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW
Z-Z	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW

SIGNAL DISPLAY CHART



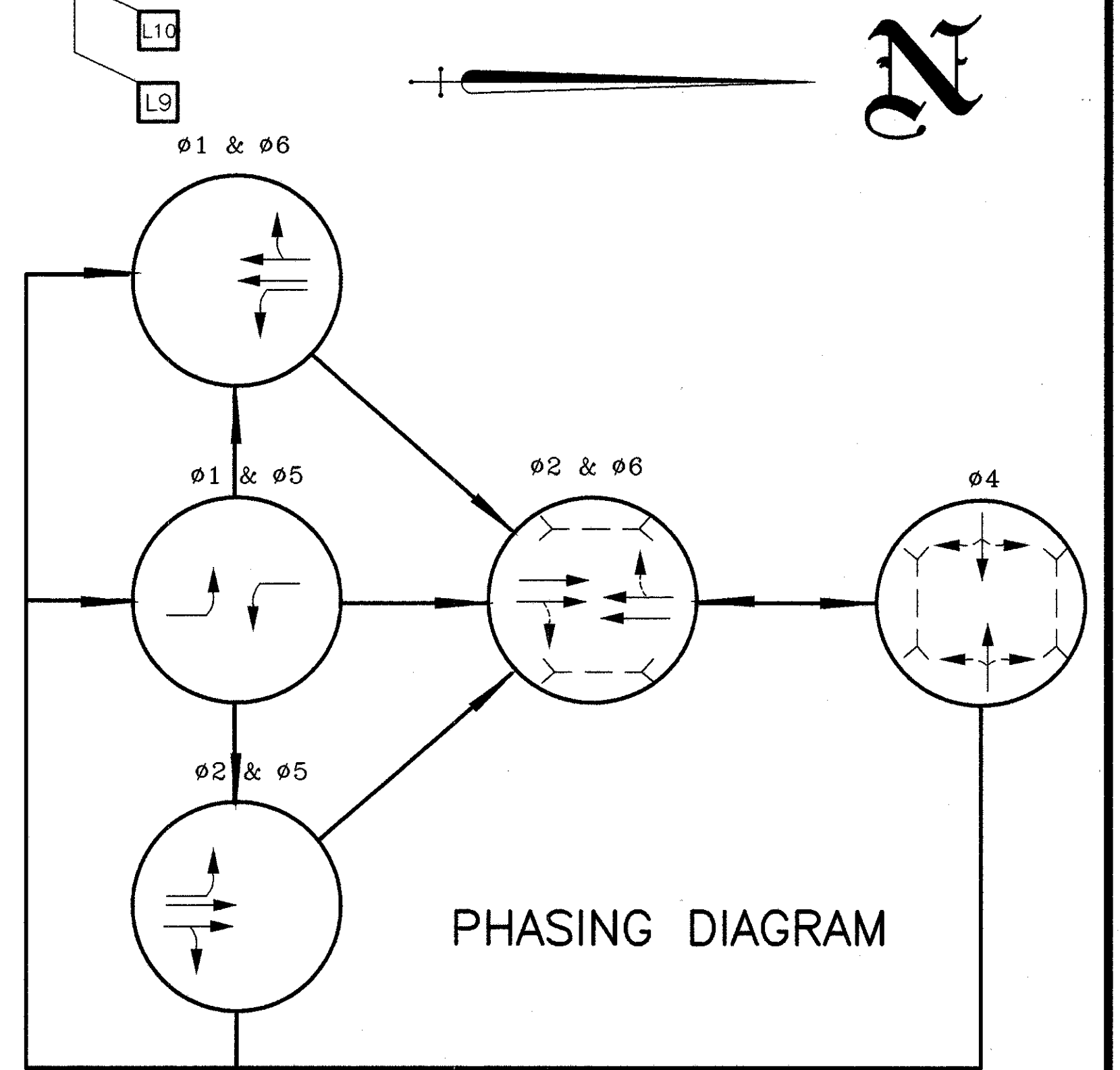
WIRING DIAGRAM

FUNCTION	$\emptyset 1$	$\emptyset 2$	$\emptyset 4$	$\emptyset 5$	$\emptyset 6$
MINIMUM GREEN	7	23	8	7	23
PED WALK	-	7	5	-	7
PED CLEARANCE	-	16	22	-	16
GREEN EXTENSION	2.5	3.0	3.0	2.5	3.0
MAXIMUM GREEN	18	54	28	18	54
YELLOW CLEARANCE	4.4	4.4	3.7	4.4	4.4
ALL RED CLEARANCE	1.0	1.0	1.9	1.0	1.0
RECALL	NONE	PED	NONE	NONE	PED

SIGNAL TIMING

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT	# PHASE
L1	6' x 40'	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 40'	2	PRESENCE	8	6	4
L7	6' x 6'	3	PRESENCE	0	7	6
L8	6' x 6'	3	PRESENCE	0	8	6
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	SYSTEM
L12	6' x 6'	3	PRESENCE	0	12	SYSTEM
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
L17	6' x 35'	2	PRESENCE	8	17	4

LOOP DETECTOR CHART



PHASING DIAGRAM

ITEM	TOTAL	UNIT	DESCRIPTION
625	7	EACH	GROUND ROD
625	10	EACH	PULLBOX, 18", AS PER PLAN
625	923	LIN FT	CONDUIT, 2", 713.04
625	5	LIN FT	CONDUIT, 3", 713.04
625	239	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	928	LIN FT	TRENCH
630	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE
630	2	EACH	REMOVAL OF GROUND MOUNTED SUPPORT AND DISPOSAL
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	3	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	11.42	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATIONS
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 11, WITH 39' ARM
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12, WITH 47' ARM
632	2	EACH	PEDESTAL, 8', TRANSFORMER BASE
632	4	EACH	CABLE SUPPORT ASSEMBLY
632	1015	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	1902	LIN FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	228	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	2770	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	3888	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	44	LIN FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	1	EACH	CONDUIT RISER, 2" DIAM.
632	10	EACH	COVERING OF VEHICULAR SIGNAL HEADS
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	10.42	SQ FT	CONTROLLER WORK PAD
633	1.85	CU YD	CONCRETE FOR CABINET FOUNDATION
633	1	EACH	CONTROLLER, ACTUATED, 5 PHASE, SOLID-STATE DIGITAL, MICROPROCESSOR, AS PER PLAN