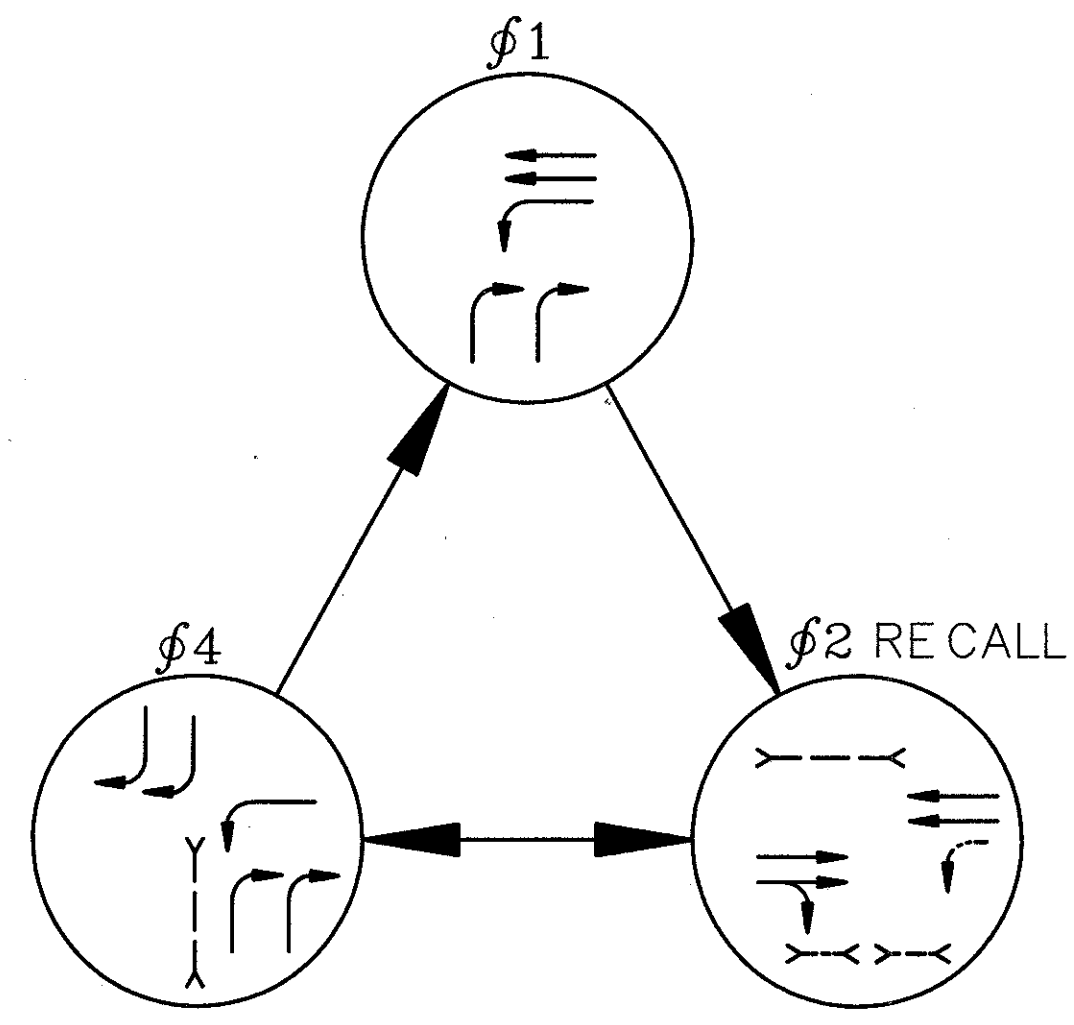


FOR SIGNING DETAILS SEE SHEET 62.
 FOR ORIENTATION ANGLES SEE SHEET 53.
 FOR CURB RAMP CALL OFFS SEE SHEET 22.
 FOR PAVEMENT MARKING DETAILS SEE SHEET 62.
 FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET 48-49.
 FOR INTERCONNECT DETAILS SEE SHEET 56.

NOTE: ALL CONDUITS GOING FROM PULLBOXES TO POLES SHALL BE 3" TRADESIZE.

NOTE: EXISTING TRAFFIC SIGNALIZATION EQUIPMENT IS TO BE REMOVED.



PHASING DIAGRAM

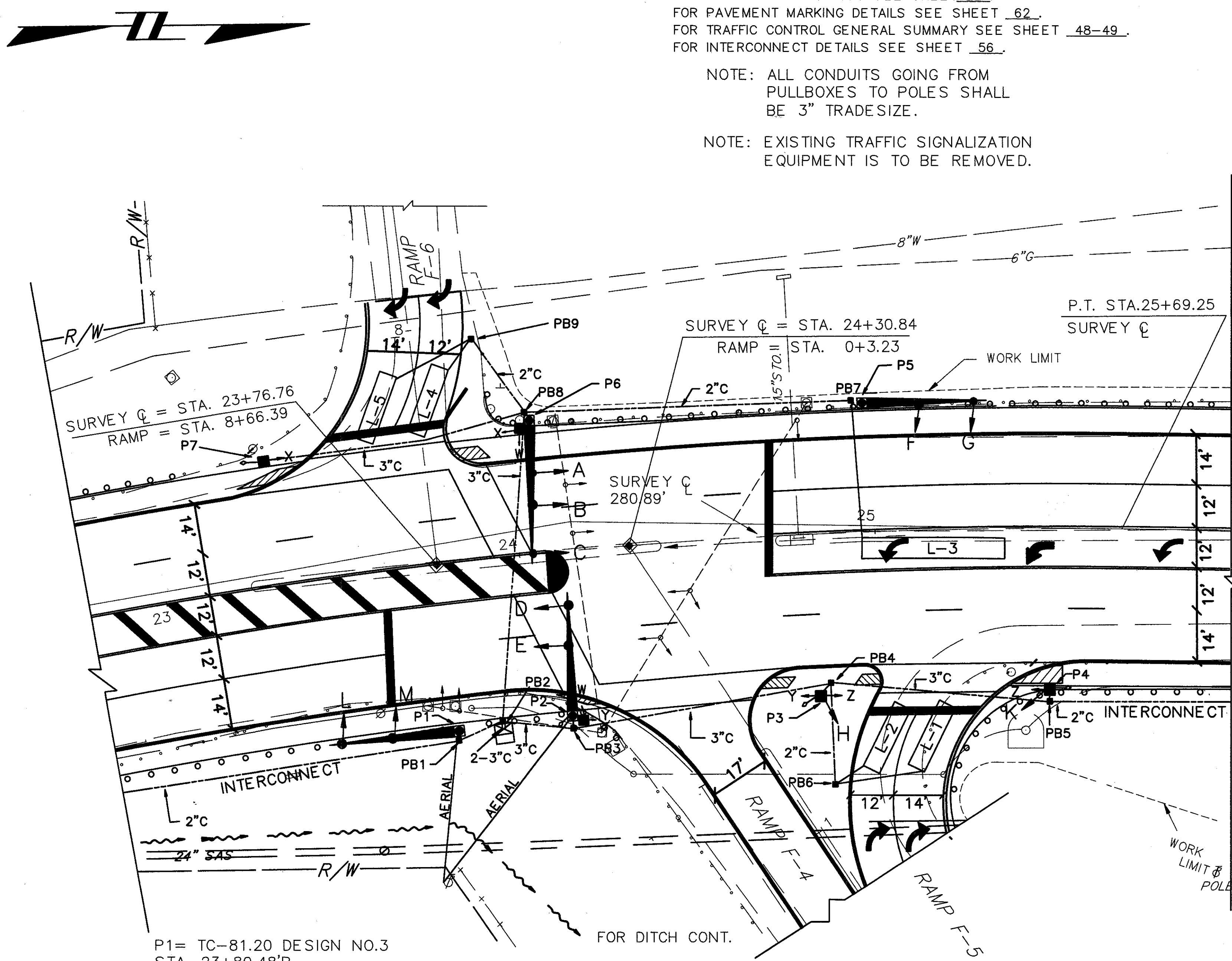
SIGNAL HEAD	φ1		φ2		φ4		FLASH	DWELL	
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR			
A	G	G	G	Y	R	R	R	Y	G
B	G	G	G	Y	R	R	R	Y	G
C	G	G	G	Y	R	R	R	Y	G
D	R	R	G	Y	R	R	R	Y	G
E	R	R	G	Y	R	R	R	Y	G
F	←	←	R	R	R	R	G	G	R
G	←	←	R	R	R	R	G	G	R
H	←	←	R	R	R	R	G	G	R
K	←	←	R	R	R	R	G	G	R
L	R	R	R	R	R	R	G	←	R
M	R	R	R	R	R	R	G	←	R
W-W	DW	DW	DW	DW	DW	DW	W	FDW	DW
X-X	DW	DW	DW	W	FDW	DW	DW	DW	DW
Y-Y	DW	DW	DW	W	FDW	DW	DW	DW	DW
Z-Z	DW	DW	DW	W	FDW	DW	DW	DW	DW

⊙ IF PHASE 2 NEXT THEN ←
 ⊙ IF PHASE 2 NEXT THEN R

SIGNAL SEQUENCE CHART

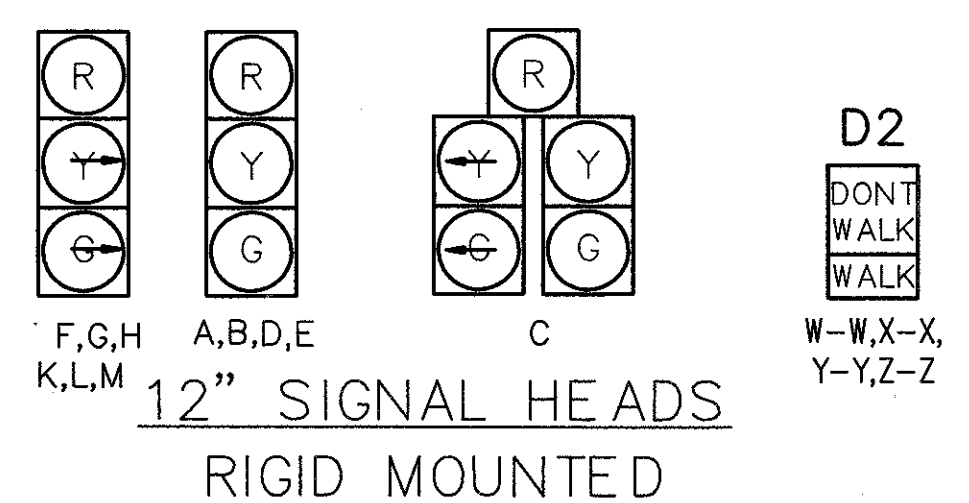
FUNCTION	φ1	φ2	φ4
INITIAL GREEN	5.0	-	5.0
MINIMUM GREEN	-	30.0	-
VEHICLE EXTENSION	2.5	-	2.5
MAXIMUM GREEN	18.0	-	20.0
PEDESTRIAN WALK	-	10.0	7.0
PEDESTRIAN CLEARANCE	-	14.0	10.0
VEHICLE YELLOW CLEARANCE	3.0	3.0	3.0
VEHICLE ALL RED CLEARANCE	1.0	1.0	1.0
RECALL	NO	YES	NO
MEMORY	NO	NO	NO

SIGNAL TIMING CHART



P1= TC-81.20 DESIGN NO.3
 STA. 23+80,48'R
 PB1= STA. 23+79,50'R (18")
 CONTROLLER W/WORK PAD
 STA. 23+91,49'R
 PB3= STA. 24+11,46'R (18")
 P6= TC-81.20 DESIGN NO.11
 STA. 24+06,38'L
 PB8= STA. 23+93,37'L (18")
 PB9= STA. 23+95,62'L (18")
 P7= PEDESTAL, 8', W/TRANSFORMER BASE
 STA. 23+32,35'L
 P2= COMBINATION SIGNAL SUPPORT
 TC-81.20 DESIGN NO.12
 STA. 24+11,46.5'R

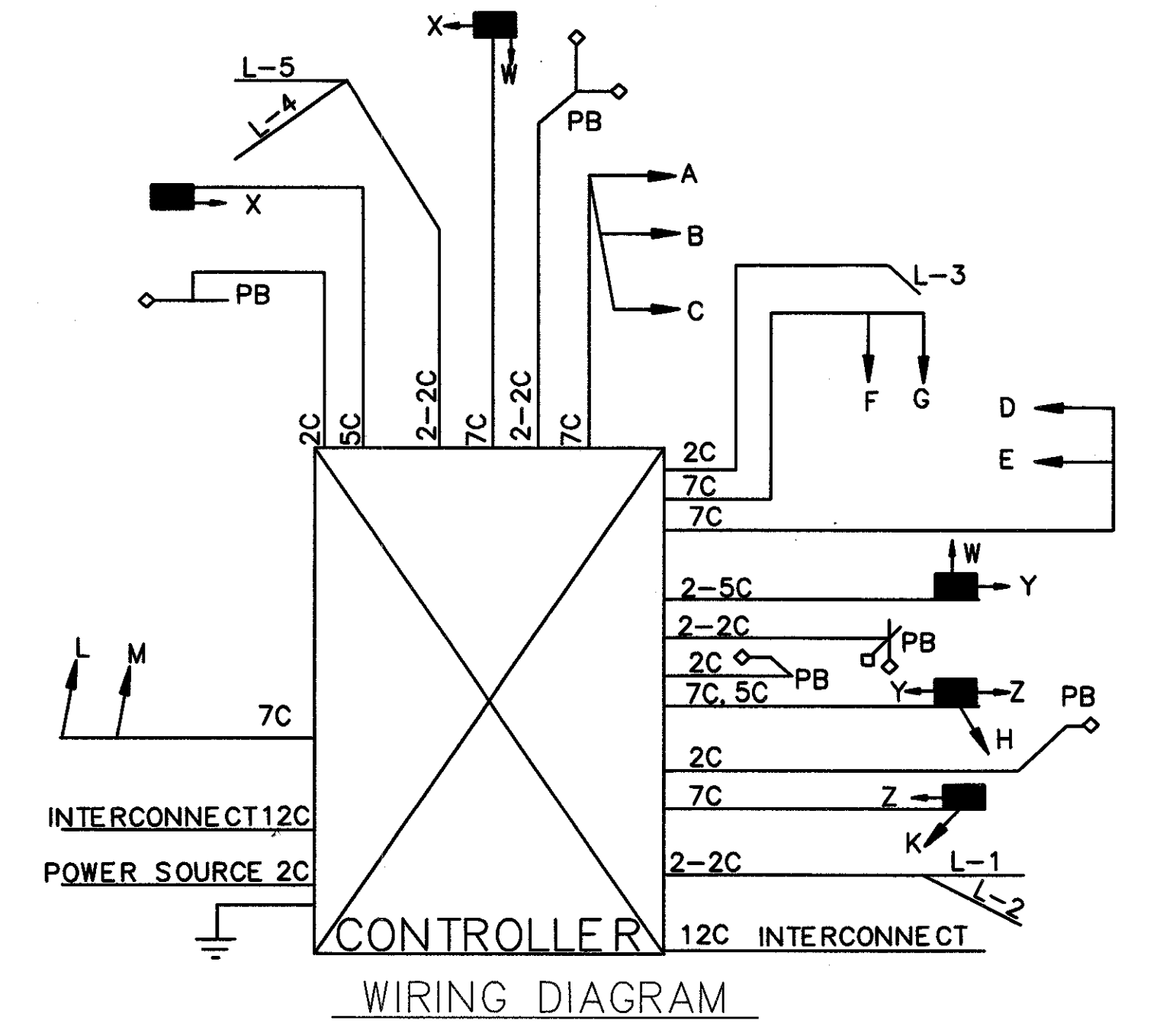
PB5= STA. 25+50,49'R (18")
 P4= PEDESTAL, 12', W/TRANSFORMER BASE
 STA. 25+50,46'R
 P5= TC-81.20 DESIGN NO.3
 STA. 24+97,36'L
 PB7= STA. 25+02,39'L (18")
 PB2= STA. 23+91,47'R (24")
 P3= PEDESTAL, 12', W/TRANSFORMER BASE
 STA. 24+83,46'R
 PB4= STA. 24+87,42'R (24")
 PB6= STA. 24+88,71'R (18")
 POWER SOURCE STA. 23+76,90'R



12" SIGNAL HEADS RIGID MOUNTED

LOOP	SIZE	TURNS	MODE	DELAY	PHASE	REMARK	INHIBITED DELAY	LOCATION 1st FRONT CORNER	LOCATION 2nd FRONT CORNER
L-1	5X20	2	PRESENCE	16.0	φ4		YES	STA. 25+18,48'R	STA. 25+23,50'R
L-2	5X20	2	PRESENCE	16.0	φ4		YES	STA. 25+05,48'R	STA. 25+10,50'R
L-3	5X40	2	PRESENCE	3.0	φ1		YES	STA. 24+97, 2.5'R	STA. 25+97, 7.5'R
L-4	5X20	2	PRESENCE	16.0	φ4		YES	STA. 23+68,5,40'L	STA. 23+73,5,38'L
L-5	5X20	2	PRESENCE	16.0	φ4		YES	STA. 23+54,5,37.5'L	STA. 23+59,5,36'L

LOOP DETECTOR CHART



WIRING DIAGRAM

ITEM	ITEM EXT.	DESCRIPTION	UNIT
625		GROUND ROD	EACH 9
625		PULL BOX, 713.08, 18"	EACH 7
625		PULL BOX, 713.08, 24"	EACH 2
625		TRENCH	LN FT 320
625		CONDUIT, 2", 713.07, TYPE DB	LN FT 200
625		CONDUIT, CONCRETE ENCASED, SIZE: 3"	LN FT 170
625		CONDUIT, 3", 713.04	LN FT 165
632		VEHICULAR SIGNAL HEADS, 3-SECTION, 12" LENS, 1-WAY, AS PER PLAN	EACH 11
632		VEHICULAR SIGNAL HEAD, 5-SECTION, 12" LENS, 1-WAY, AS PER PLAN	EACH 1
632		PEDESTAL, 8' W/TRANSFORMER BASE.	EACH 1
632		PEDESTAL, 12' W/TRANSFORMER BASE.	EACH 2
632		PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN	EACH 8
632		PEDESTRIAN PUSHBUTTON	EACH 8
632		LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	EACH 5
632		LOOP DETECTOR PAVEMENT CUTTING	LN FT 370
632		CONCRETE FOR ANCHOR BASE FOUNDATION	CU YDS 10
632		COMBINATION SIGNAL SUPPORT, TYPE TC-81.20 DESIGN 12 POLE WITH MAST ARMS TC-81.20 DESIGN 3, 33 FT. AND TC-12.30 DESIGN 3, 16 FT.	EACH 1
632		SIGNAL SUPPORT, TYPE TC-81.20, DESIGN NO.3, W/35' ARM	EACH 1
632		SIGNAL SUPPORT, TYPE TC-81.20, DESIGN NO.11, W/39' ARM	EACH 1
632		SIGNAL SUPPORT, TYPE TC-81.20, DESIGN NO.3, W/33' ARM	EACH 1
631		SIGN SERVICE	EACH 1
632		CABLE SUPPORT ASSEMBLY	EACH 4
632		SIGNAL CABLE, 2-CONDUCTOR, NO. 14 AWG, AS PER PLAN	LN FT 775
632		SIGNAL CABLE, 5-CONDUCTOR, NO. 14 AWG	LN FT 460
632		SIGNAL CABLE, 7-CONDUCTOR, NO. 14 AWG	LN FT 985
632		LOOP DETECTOR WIRE, TYPE E	LN FT 848
632		LOOP DETECTOR LEAD-IN CABLE	LN FT 845
632		POWER CABLE, 2-CONDUCTOR, NO. 8 AWG	LN FT 150
632		POWER SERVICE	EACH 1
632		COVERING OF SIGNAL HEADS	EACH 11
632		REMOVAL OF TRAFFIC SIGNAL INSTALLATION	EACH 1
633		CONTROLLER, ACTUATED 4 PHASE, SOLID STATE, DIGITAL MICROPROCESSOR, AS PER PLAN	EACH 1
633		COORDINATOR, MULTI-DIAL, SOLID STATE, DIGITAL MICROPROCESSOR, SECONDARY	EACH 1
633		CONCRETE FOR CABINET FOUNDATION	CU YDS 2
633		CONTROLLER WORK PAD	SQ FT 8.3
633		ALTERNATE BID: CONTROLLER, ACTUATED 4 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN	EACH 1

TRAFFIC CONTROL SIGNAL PLAN

LAK 306 - 6.82 SOUTH RAMPS