CONDUCTOR SCHEDULE

CONTROL FUNCTION	CONDUCTORS SIZE	CONDUCTORS INSULATION	RUNS 1	2	3	4	5	6	7	8	9
VEHICLE HEADS	#14	T.W.	–	–	–	–	–	–	–	–	–
PHASE 1				3	3	3					
PHASE 2						3	3	3	3	3	
PHASE 3						3	3	3			
PHASE 4			3	3	3	3					
PHASE 5						3	3	3	3	3	
PHASE 6					3	3					
PHASE 7			3	3	3	6	3	3	3	3	3
PHASE 8						3	3	3			
PED. HEADS											
PHASE 2				2	2	4	2	2	2	2	
PHASE 4			2	2	2	2					
PHASE 6					2	4	2	2	2		
PHASE 8						2	2	2	2	2	2
PED. PUSH BUTTON											
PHASE 2			1	1	1	2	1	1	1	1	1
PHASE 4				1	1	1					
PHASE 6						1	1	1			
PHASE 8						1	1	1	1	1	
SPARES			3	3	3	6	3	3	3	3	3
12V COMMON			1	1	1	2	1	1	1	1	1
DETECTORS	#16/2	P.E.									
PHASE 1						2	2	2	2		
PHASE 2				2	2	2					
PHASE 3						1	1	1	1	1	1
PHASE 4						2					
PHASE 5				2	2	2					
PHASE 6						2	2	2	2		
PHASE 7						1	1				
PHASE 8						2	2	2	2	2	2
T.I.S.N.S.	#12	T.W.	2	2	2		2	2	2	2	
120V COMMON	#10	T.W.	1	1	1	2	1	1	1	1	1
LUMINAIRES	#8	T.H.W.	2	2	2		2	2	2	2	
SIGNAL SERVICE	#6	T.H.W.				2	2				
INTERCONNECT (FUT.)	#19/2	P.E.									
TOTAL	#14	T.W.	13	19	24	52	28	28	21	19	10
	#12	T.W.	2	2	2		2	2	2	2	
	#10	T.W.	1	1	1	2	1	1	1	1	1
	#8	T.H.W.	2	2	2		2	2	2	2	
	#6	T.H.W.				2	2				
	#16/2	P.E.		4	4	14	8	7	7	3	3
	#19/2	P.E.									
#14 EQUIV.			21.5	39.5	44.5	103	66.5	57.5	50.5	36.5	20.5
CONDUIT SIZE			2"	2 1/2"	2 1/2"	3 1/2"	3"	3"	3"	2 1/2"	2"

THE SYSTEM SHALL HAVE NEW CABLE AND CONDUCTORS.

DETECTOR SCHEDULE

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1–S–1	1	●
2	2–S–1	3	
1	1–N–5	1	●
2	2–N–5	3	
1	1–N–2	2	● ■
2	2–N–2	4	✱
1	1–S–6	2	● ■
2	2–S–6	4	✱
1	1–W–3	3	
2	1–E–7	3	
1	1–E–4	3	
2	2–E–4	3	
1	1–W–8	3	
2	2–W–8	3	

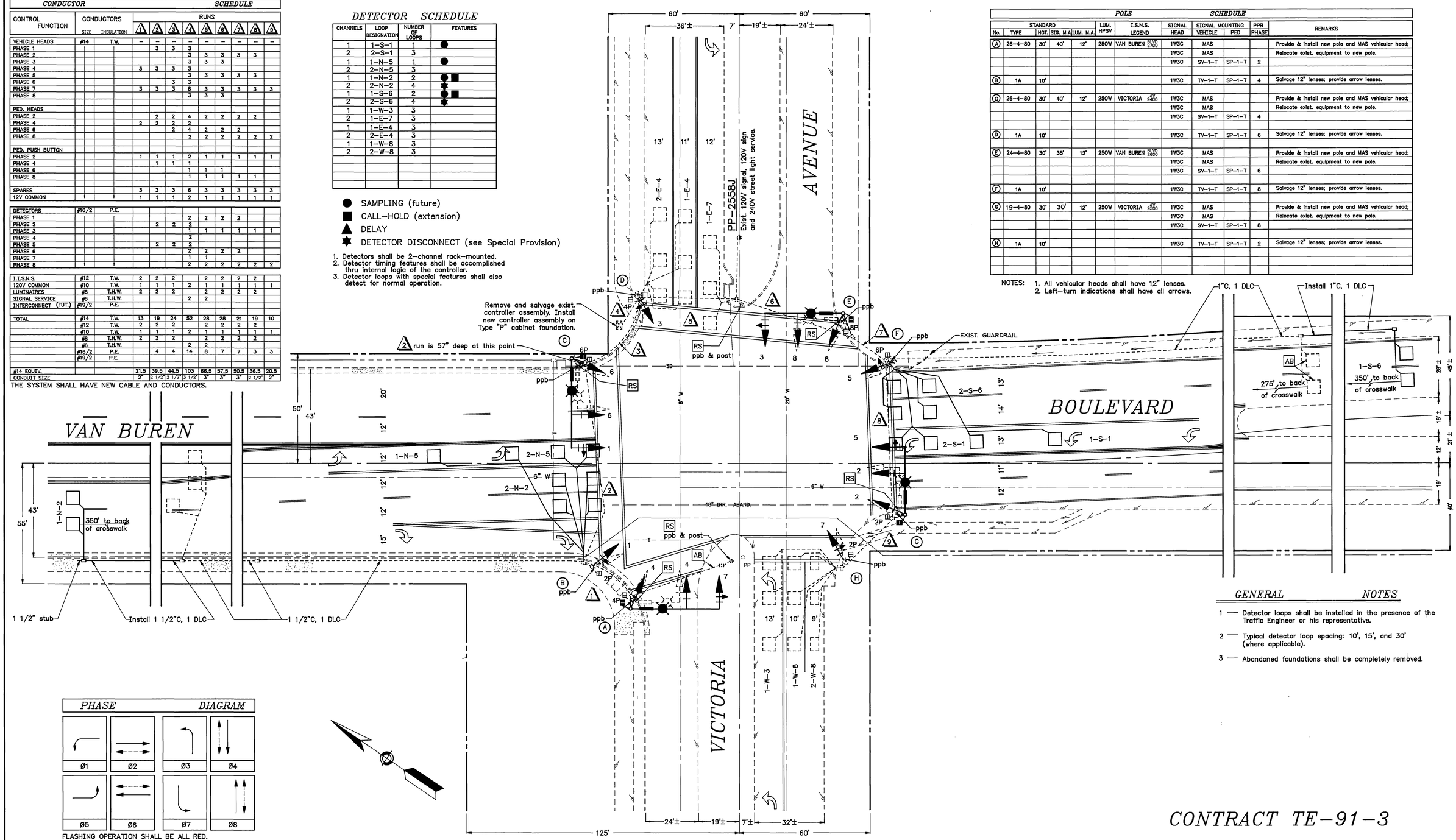
● SAMPLING (future)
■ CALL–HOLD (extension)
▲ DELAY
✱ DETECTOR DISCONNECT (see Special Provision)

1. Detectors shall be 2–channel rack–mounted.
2. Detector timing features shall be accomplished thru internal logic of the controller.
3. Detector loops with special features shall also detect for normal operation.

POLE SCHEDULE

No.	STANDARD TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	I.S.N.S. LEGEND	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	PED	PPB PHASE	REMARKS
Ⓐ	26–4–80	30'	40'	12'	250W	VAN BUREN BLVD 27105	1W3C	MAS			Provide & Install new pole and MAS vehicular head;
							1W3C	MAS			Relocate exist. equipment to new pole.
							1W3C	SV–1–T	SP–1–T	2	
Ⓑ	1A	10'					1W3C	TV–1–T	SP–1–T	4	Salvage 12" lenses; provide arrow lenses.
Ⓒ	26–4–80	30'	40'	12'	250W	VICTORIA AV 9400	1W3C	MAS			Provide & Install new pole and MAS vehicular head;
							1W3C	MAS			Relocate exist. equipment to new pole.
							1W3C	SV–1–T	SP–1–T	4	
Ⓓ	1A	10'					1W3C	TV–1–T	SP–1–T	6	Salvage 12" lenses; provide arrow lenses.
Ⓔ	24–4–80	30'	35'	12'	250W	VAN BUREN BLVD 28600	1W3C	MAS			Provide & Install new pole and MAS vehicular head;
							1W3C	MAS			Relocate exist. equipment to new pole.
							1W3C	SV–1–T	SP–1–T	6	
Ⓕ	1A	10'					1W3C	TV–1–T	SP–1–T	8	Salvage 12" lenses; provide arrow lenses.
Ⓖ	19–4–80	30'	30'	12'	250W	VICTORIA AV 9500	1W3C	MAS			Provide & Install new pole and MAS vehicular head;
							1W3C	MAS			Relocate exist. equipment to new pole.
							1W3C	SV–1–T	SP–1–T	8	
Ⓗ	1A	10'					1W3C	TV–1–T	SP–1–T	2	Salvage 12" lenses; provide arrow lenses.

NOTES:
1. All vehicular heads shall have 12" lenses.
2. Left–turn indications shall have all arrows.



GENERAL NOTES

1 — Detector loops shall be installed in the presence of the Traffic Engineer or his representative.

2 — Typical detector loop spacing: 10', 15', and 30' (where applicable).

3 — Abandoned foundations shall be completely removed.

PHASE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED.

CONTRACT TE–91–3

RICHARD D. McGRATH No. 31952 12-31-92 PROFESSIONAL ENGINEER

ENGINEER IN RESPONSIBLE CHARGE
Richard D. McGrath
RICHARD D. McGRATH
R.C.E. No. 31952 expires 12-31-92
DATE 5-17-91

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAC DRAWN BY MAC CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		5/6/91
P.W. INSPECTION		5/7/91
TRAFFIC DIVISION		5/6/91
CHIEF P.W. ENGR.		5/6/91
~~PUBLIC UTILITIES~~		5/7/91

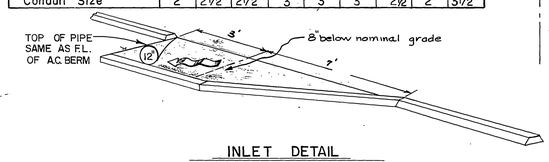
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 5/17/91

TRAFFIC SIGNAL REVISION
VAN BUREN BLVD. AND VICTORIA AVE.

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" =

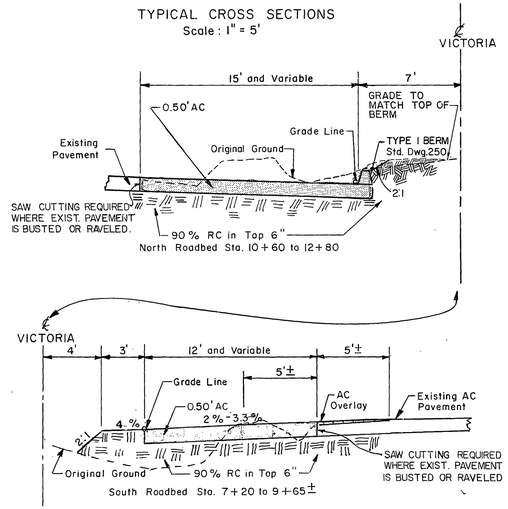
ACCT. NO.
X–438
SHEET 1 OF 1
FILE NO.

CONDUCTOR TABLE										
AWG	CIRCUIT	RUNS 1	2	3	4	5	6	7	8	9
UF #14	ØA	—	3	3	3	3	3	3	—	6
	ØB	3	3	3	3	3	3	3	3	6
	ØAp	2	2	2	2	2	2	2	—	4
	ØBp	2	2	2	2	2	2	2	2	4
	ØAPPB	—	2	2	3	2	1	1	1	6
	ØB PPB	—	1	2	2	2	2	1	—	4
	PPB Common	1	1	1	1	1	1	1	1	2
	Spares	3	3	3	3	3	3	3	3	6
	TOTAL	11	17	18	19	18	17	16	10	
UF #12	Illuminated Signs	2	2	2	2	2	2	2		
	TOTAL	2	2	2	2	2	2	2		38
UF #10	Signal Common	1	1	1	1	1	1	1	1	2
	TOTAL	1	1	1	1	1	1	1	1	2
P.E. LOOP DET. CABLE 2#12	1A	—	2	2		—	—	—	—	2
	2B, 3B, 4B	—	—	—	1	—	—	—	—	3
	5A	—	—	—	2	2	2	—	—	2
	6B, 7B, 8B	—	—	—	3	3	3	3	3	3
					6					
	TOTAL	—	2	2		5	5	3	3	10
UF/THW #8	Luminaires (THW)	2	2	2	2	2	2	2	—	
	Signal Service (UF)				2					2
	TOTAL	2	2	2	4	2	2	2	—	2
Conduit Size		2"	2½"	2½"	3"	3"	3"	2½"	2"	3½"

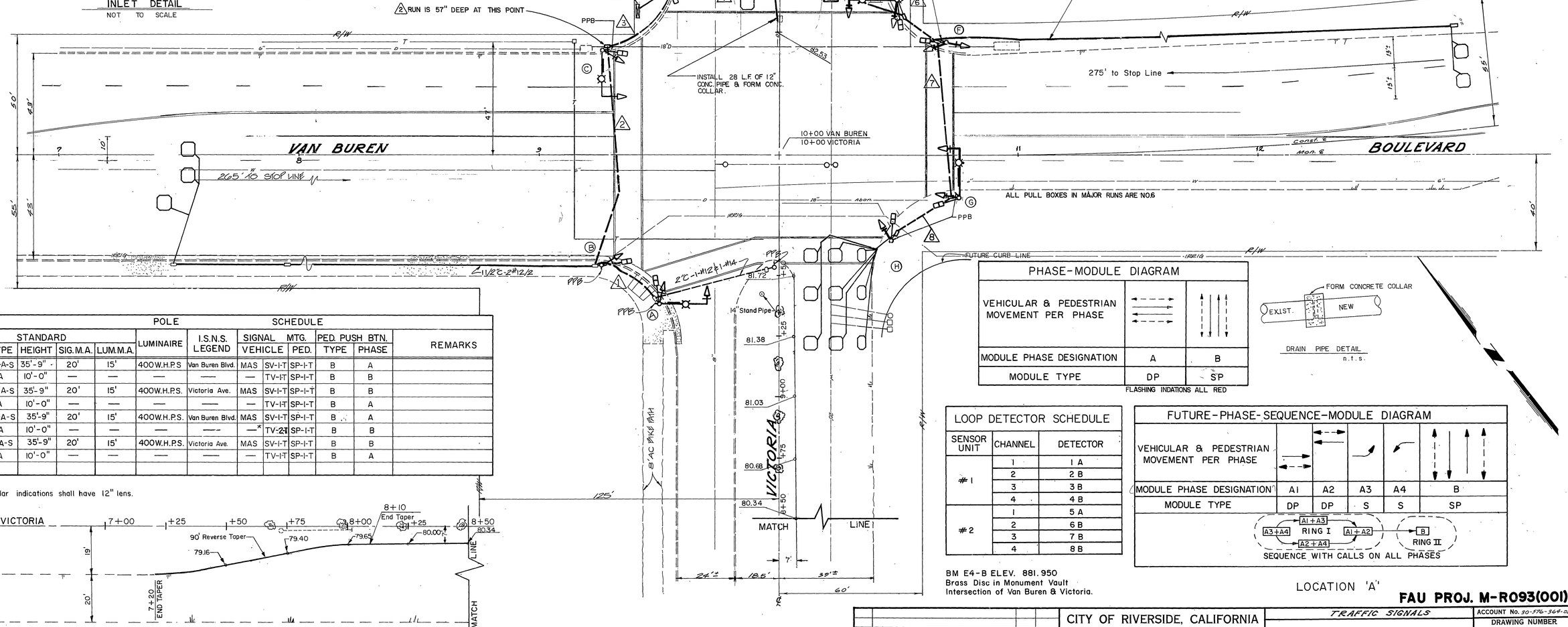


INLET DETAIL
NOT TO SCALE

TYPICAL CROSS SECTIONS
Scale: 1" = 5'



T. I. = 7
R = 50



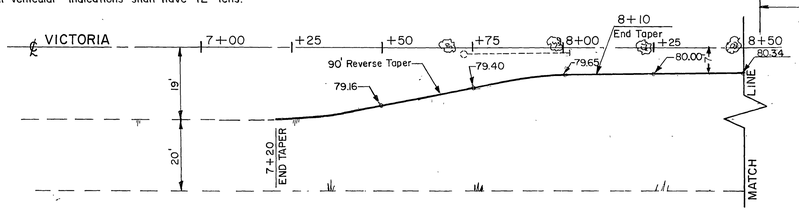
CONSTRUCTION NOTES:

1. Clear and grub wherever new construction is indicated.
2. Palm trees to be transplanted to new location in Victoria Median approximately 1 1/4 miles southwesterly of site as directed by THE ENGINEER. See Exhibit "A" of the Special Provisions.
3. Rose bushes under new construction to be removed and disposed of by contractor.
4. Install warning sign W41 on all legs of intersection 500' from stop line. Signs shall be 36" x 36" and shall conform to the State of California Uniform Sign Chart. Installation shall include contractor furnishing 4" x 4" x 14" post.

POLE SCHEDULE

No.	STANDARD TYPE	HEIGHT	SIG.M.A.	LUM.M.A.	LUMINAIRE	I.S.N.S. LEGEND	SIGNAL MTG. VEHICLE	PED.	PED. PUSH BTN. TYPE	PHASE	REMARKS
A	17-A-S	35'-9"	20'	15'	400W.H.P.S	Van Buren Blvd.	MAS	SV-1-T	SP-1-T	B	A
B	1-A	10'-0"	—	—	—	—	—	TV-1-T	SP-1-T	B	B
C	17-A-S	35'-9"	20'	15'	400W.H.P.S.	Victoria Ave.	MAS	SV-1-T	SP-1-T	B	B
D	1-A	10'-0"	—	—	—	—	—	TV-1-T	SP-1-T	B	A
E	17-A-S	35'-9"	20'	15'	400W.H.P.S.	Van Buren Blvd.	MAS	SV-1-T	SP-1-T	B	A
F	1-A	10'-0"	—	—	—	—	—	TV-2-T	SP-1-T	B	B
G	17-A-S	35'-9"	20'	15'	400W.H.P.S.	Victoria Ave.	MAS	SV-1-T	SP-1-T	B	B
H	1-A	10'-0"	—	—	—	—	—	TV-1-T	SP-1-T	B	A

All vehicular indications shall have 12" lens.



PHASE-MODULE DIAGRAM

VEHICULAR & PEDESTRIAN MOVEMENT PER PHASE		
MODULE PHASE DESIGNATION	A	B
MODULE TYPE	DP	SP

FLASHING INDATIONS ALL RED

DRAIN PIPE DETAIL
n.t.s.

LOOP DETECTOR SCHEDULE

SENSOR UNIT	CHANNEL	DETECTOR
#1	1	1 A
	2	2 B
	3	3 B
	4	4 B
#2	1	5 A
	2	6 B
	3	7 B
	4	8 B

FUTURE-PHASE-SEQUENCE-MODULE DIAGRAM

VEHICULAR & PEDESTRIAN MOVEMENT PER PHASE					
MODULE PHASE DESIGNATION	A1	A2	A3	A4	B
MODULE TYPE	DP	DP	S	S	SP

SEQUENCE WITH CALLS ON ALL PHASES

BM E4-B ELEV. 881.950
Brass Disc in Monument Vault
Intersection of Van Buren & Victoria.

LOCATION 'A'

FAU PROJ. M-R093(001)

PREPARED BY
DESIGN ENGINEER — R.C.E. 16828 — DATE 3-19-75
CROMMELIN • PRINGLE AND ASSOCIATES

MARK	REVISIONS	APPR.	DATE
	"AS-BUILT" PER N/W CORNELL (F-80-84)		9-17-79
	ADD REARSIDE INDICATION LOC. "E"		1-1-79
	AS BUILT PER CONTRACT 76-80-5		4-7-78

DESIGNED BY W.S.P. DRAWN BY JK CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF PUB. WKS. ENGR.		
PUBLIC UTILITIES		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 11-24-75

TRAFFIC SIGNALS

VAN BUREN BLVD. AND VICTORIA AVE.

SCALE: 1"=20'

ACCOUNT No. 30-576-364-06
DRAWING NUMBER X-438
SHEET ___ OF ___
Contract TF 75-8