

CONDUCTOR		TABLE								
AWG	CIRCUIT	RUNS								
		1	2	3	4	5	6	7	8	9
#1				3	3	3				
#2		3	3	3	3	3	3			
#3 (FUTURE)							3(N)	3(N)	3(N)	
#4			3	3	3	3	3,3(N)	3(N)		
#5		3	3	3	3	3	3,3(N)	3(N)	3(N)	3(N)
#6							3,3(N)	3(N)	3(N)	3(N)
#7 (FUTURE)			3	3	3	3				
#8			3	3	3	3	3,3(N)	3(N)	3(N)	
#2 PED		2	2	2	2	2				
#4 PED				2	2	2	2,2(N)	2(N)		
#6 PED					2	2,2(N)	2(N)	2(N)	2(N)	
#8 PED (FUTURE)			2	2	2	2	2,2(N)	2(N)	2(N)	2(N)
#2 PPB			1	2	2	2				
#4 PPB					1	2				
#6 PPB						2(N)	2(N)	1(N)		
#8 PPB (FUTURE)		1	1	1	1	1,1(N)	1(N)	1(N)	1(N)	
PPB COMMON		1	1	1	1	1,1(N)	1(N)	1(N)	1(N)	
SPARES		3	3	3	3	3	3,3(N)	3(N)	3(N)	3(N)
TOTAL		13	25	28	32	38	41,28(N)	28(N)	22(N)	15(N)

#1 DETECTOR						2(N)	2(N)	2(N)	2(N)	
#2 DETECTOR					2	2				
#3 DETECTOR (FUTURE)			2	2	2					
#4 DETECTOR						2(N)	2(N)			
#5 DETECTOR					2	2				
#6 DETECTOR						3(N)	3(N)	3(N)	3(N)	
#4 DETECTOR (FUTURE #7)						2(N)	2(N)			
#8 DETECTOR		3	3	3	3					
TOTAL			3	5	9	9	9,9(N)	9(N)	5(N)	5(N)

#8 LUMINAIRE	2	2	2	2	2		2(N)	2(N)	2(N)
SIGNAL SERVICE							2		
TOTAL	2	2	2	2	2		2(N)	2(N)	2(N)

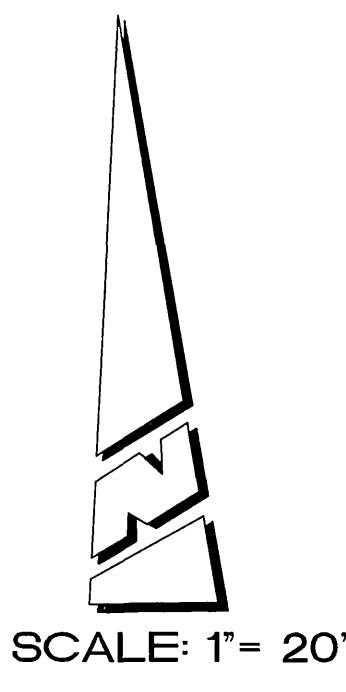
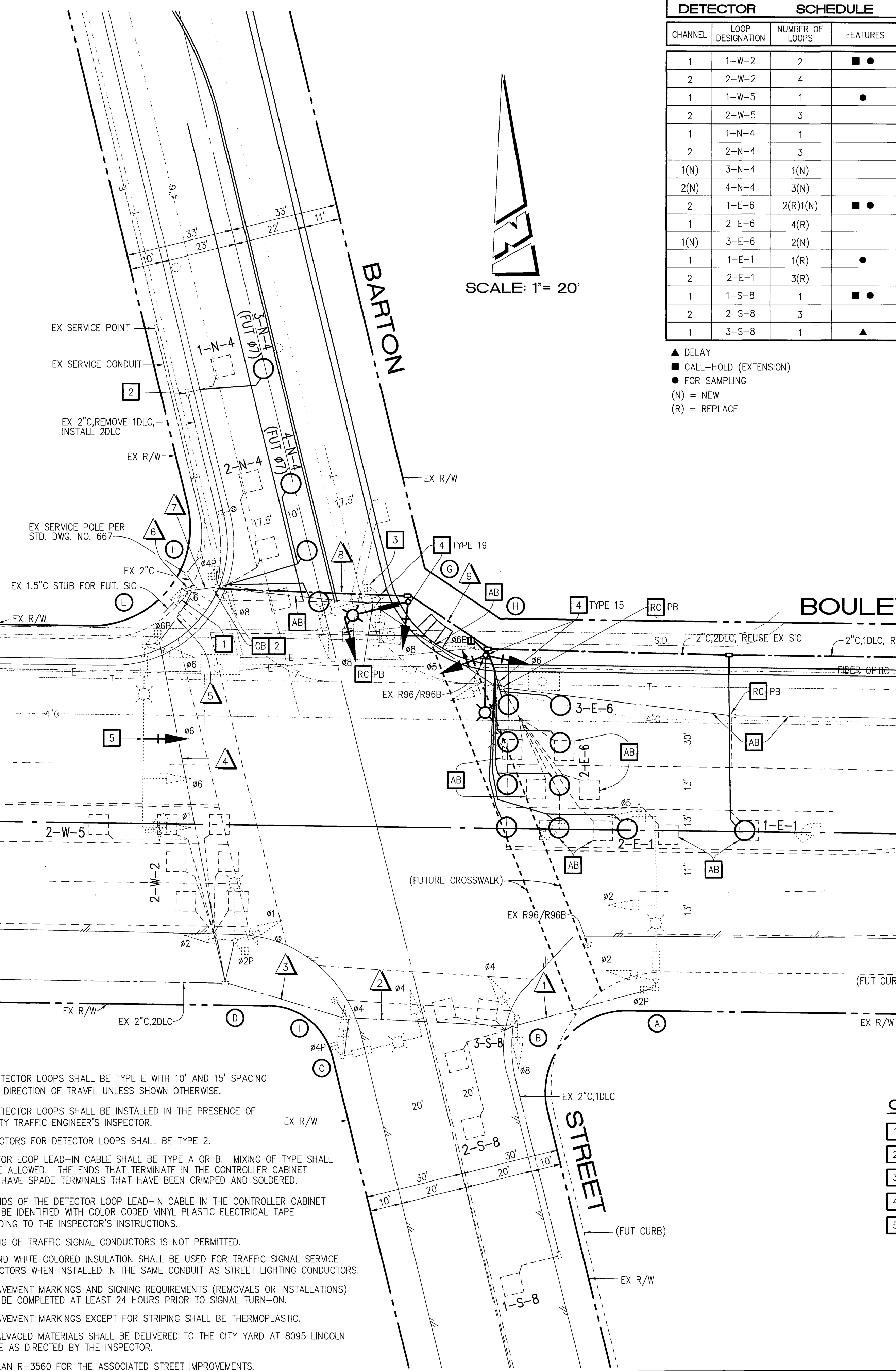
#12 IISNS	2	2	2	2	2		2(N)	2(N)	
-----------	---	---	---	---	---	--	------	------	--

#10 SIGNAL COMMON	1	1	1	1	1	1,1(N)	1(N)	1(N)	1(N)
-------------------	---	---	---	---	---	--------	------	------	------

SIC INTERCONNECT							1	1	1
------------------	--	--	--	--	--	--	---	---	---

CONDUIT SIZE	2"	2.5"	3"	3"	3.5"	2-3"	3"	3"(N)	3"(N)
--------------	----	------	----	----	------	------	----	-------	-------

ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS INDICATED AS (N) NEW. EXISTING CONDUCTORS NOT REUSED SHALL BE REMOVED.

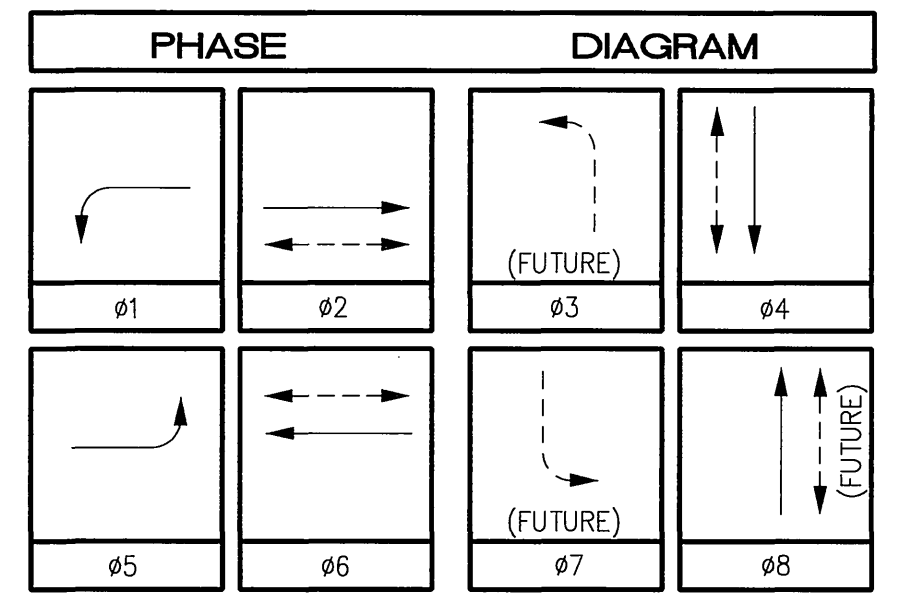


DETECTOR		SCHEDULE	
CHANNEL	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-W-2	2	● ●
2	2-W-2	4	
1	1-W-5	1	●
2	2-W-5	3	
1	1-N-4	1	
2	2-N-4	3	
1(N)	3-N-4	1(N)	
2(N)	4-N-4	3(N)	
2	1-E-6	2(R)1(N)	● ●
1	2-E-6	4(R)	
1(N)	3-E-6	2(N)	
1	1-E-1	1(R)	●
2	2-E-1	3(R)	
1	1-S-8	1	● ●
2	2-S-8	3	
1	3-S-8	1	▲

▲ DELAY
 ● CALL-HOLD (EXTENSION)
 ● FOR SAMPLING
 (N) = NEW
 (R) = REPLACE

POLE		SCHEDULE									
No.	TYPE	STANDARD HGT.	SIG. M.A.	LUM. M.A.	LUMINAIRE HPS	IISNS LEGEND	SIGNAL MOUNTING		PPB PHASE	REMARKS	
							VEHICLE	PED			
(A)	29-5-80	30'	50'	15'	250W	Barton St 9000	MAS	MAS	SV-1-T	SP-1-T	
(B)	1-A	10'							TV-2-T		#2
(C)	19-3-80		25' (FUT 30')	15'	250W	Van Buren Blvd 19900		MAS	SV-1-T	SP-1-T	
(D)	15	30'		15'	250W				SV-2-TB	SP-1-T	#4
(E)	29-5-80	30'	55'	15'	250W	Barton St 8900	MAS	MAS (MASON)	SV-1-T	SP-1-T	#4
(F)	1-A	10'							TV-1-T	SP-1-T	#6
(G)	19-3-80(R)	30'	20' (FUT 30')	15'	250W	Van Buren Blvd 20000		MAS	SV-1-T		#6
(H)	15(R)	30'		15'	250W				SV-2-TB	SP-1-T(R)	
(I)	PPB POST	3'10"									#2

ALL EQUIPMENT IS EXISTING UNLESS INDICATED OTHERWISE AS (N) NEW OR (R) RELOCATE.



GENERAL NOTES:

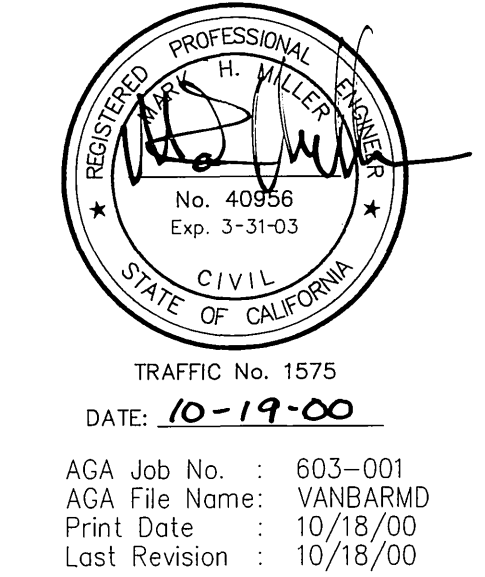
- THIS TRAFFIC SIGNAL WORK REQUIRES A "STREET OPENING PERMIT" OBTAINED AT THE PUBLIC WORKS DEPARTMENT'S COUNTER ON THE THIRD FLOOR OF CITY HALL.
- TRAFFIC SIGNAL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MOST CURRENT PROVISIONS OF SECTION 86 OF THE STANDARD SPECIFICATIONS, THE STANDARD PLANS, BOTH PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), THE CONSTRUCTION PLAN(S) AND AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
- CONTACT TRAFFIC SIGNAL MAINTENANCE (909-351-6096) 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION OF THE WORK PERFORMED. INSPECTION FOR TRAFFIC SIGNAL WORK SHALL BE AT THE RATE OF \$55.00 PER HOUR.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (1-800-227-2600) 48 HOURS PRIOR TO BEGINNING EXCAVATION.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THESE PLANS FOR APPROVAL BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL RESTORE OR REPLACE IN KIND ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TRAFFIC SIGNS, PAVEMENT DELINEATION AND LANDSCAPING.
- CONSTRUCTION WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOP(S) SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED (909-351-6096) AND THE NECESSARY TIMING ADJUSTMENTS MADE TO MAINTAIN SIGNAL OPERATION.
- ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER OR HIS INSPECTOR PRIOR TO INSTALLATION BY THE CONTRACTOR.
- ALL DETECTOR LOOPS SHALL BE TYPE E WITH 10' AND 15' SPACING IN THE DIRECTION OF TRAVEL UNLESS SHOWN OTHERWISE.
- ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE CITY TRAFFIC ENGINEER'S INSPECTOR.
- CONDUCTORS FOR DETECTOR LOOPS SHALL BE TYPE 2.
- DETECTOR LOOP LEAD-IN CABLE SHALL BE TYPE A OR B. MIXING OF TYPE SHALL NOT BE ALLOWED. THE ENDS THAT TERMINATE IN THE CONTROLLER CABINET SHALL HAVE SPADE TERMINALS THAT HAVE BEEN CRIMPED AND SOLDERED.
- THE ENDS OF THE DETECTOR LOOP LEAD-IN CABLE IN THE CONTROLLER CABINET SHALL BE IDENTIFIED WITH COLOR CODED VINYL PLASTIC ELECTRICAL TAPE ACCORDING TO THE INSPECTOR'S INSTRUCTIONS.
- SPLICING OF TRAFFIC SIGNAL CONDUCTORS IS NOT PERMITTED.
- RED AND WHITE COLORED INSULATION SHALL BE USED FOR TRAFFIC SIGNAL SERVICE CONDUCTORS WHEN INSTALLED IN THE SAME CONDUIT AS STREET LIGHTING CONDUCTORS.
- ALL PAVEMENT MARKINGS AND SIGNING REQUIREMENTS (REMOVALS OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SIGNAL TURN-ON.
- ALL PAVEMENT MARKINGS EXCEPT FOR STRIPING SHALL BE THERMOPLASTIC.
- ALL SALVAGED MATERIALS SHALL BE DELIVERED TO THE CITY YARD AT 8095 LINCOLN AVENUE AS DIRECTED BY THE INSPECTOR.
- SEE PLAN R-3560 FOR THE ASSOCIATED STREET IMPROVEMENTS.

CONSTRUCTION NOTES (THIS SHEET):

- REUSE EXISTING CONTROLLER ASSEMBLY WITH TYPE P CABINET. ADD THREE (3) DETECTOR CHANNELS.
- SPlice EXISTING LOOPS TO NEW DLC IN PULL BOX.
- RELOCATE EXISTING PEDESTRIAN HEAD TO POLE (H).
- RELOCATE SIGNAL STANDARD AS NOTED. REMOVE FOUNDATION.
- INSTALL NEW VEHICLE HEAD ON EXISTING TENON.



CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		TRAFFIC SIGNAL PLAN VAN BUREN BOULEVARD AND BARTON STREET		ACCOUNT NO. X-341A
APPROVED BY PRINCIPAL ENGINEER INSPECTION TRAFFIC DIVISION CHIEF P. W. ENGINEER PUBLIC UTILITIES	DATE 10/21/2000 10/24/00 10/24/00	APPROVED BY <i>Richard M. Brath</i> PUBLIC WORKS DIRECTOR	DATE 10-29-2000	HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = N/A



TRAFFIC No. 1575
 DATE: 10-19-00
 AGA Job No.: 603-001
 AGA File Name: VANBARM
 Print Date: 10/18/00
 Last Revision: 10/18/00

PREPARED FOR:
 VAN DAEL DEVELOPMENT CORP.
 2900 ADAMS STREET, SUITE C-25
 RIVERSIDE, CA. 92504-4978

ALBERT GROVER & ASSOCIATES
 TRANSPORTATION CONSULTING ENGINEERS
 211 E. Imperial Hwy., Suite 208 Fullerton, CA 92835
 (714) 992-2990
 Fax: 992-2893

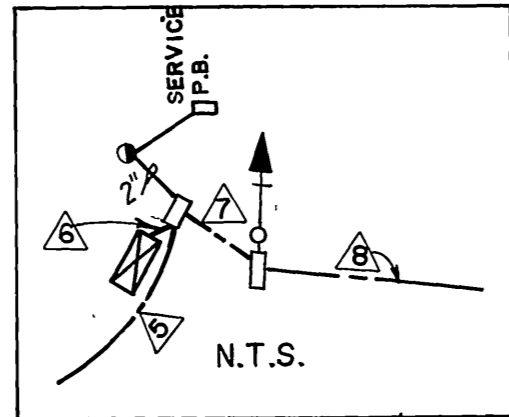
CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9
#14	Ø1				3	3	3			
	Ø2	3	3	3	3	3	3			
	Ø3(FOR FUTURE USE)				3	6	3	3		
	Ø4	3	3	3	3	6	3	3	3	
	Ø5	3	3	3	3	6	3	3	3	
	Ø6				3	6	3	3	3	
	Ø7(FOR FUTURE USE)	3	3	3	3	3				
	Ø8	3	3	3	3	6	3	3	3	
	Ø2P	2	2	2	2	2	2			
	Ø4P	2	2	2	2	2	2			
	Ø6P				2	4	2	2		
	Ø8P(FUTURE)	2	2	2	2	4	2	2	2	
	Ø2PPB	1	2	2	2	2	2			
	Ø4PPB				1	2	2			
	Ø6PPB				1	2	2	1		
	Ø8PPB(FUTURE)	1	1	1	1	1	2	1	1	1
	PPB COMMON	1	1	1	1	1	2	1	1	1
	SPARE	3	3	3	3	6	3	3	3	
	TOTAL	13	25	28	32	41	69	28	22	13
#12	I.S.N.S.	2	2	2	2	2	2	2	2	
#10	SIGNAL COMMON	1	1	1	1	1	2	1	1	1
	LUMINAIRE	2	2	2	2	2	2	2	2	2
	SERVICE						2			
#8	THW	2	2	2	2	2	2	2	2	2
DLC	Ø1				2	2	2	2	2	2
	Ø2				2	2	2	2	2	2
	Ø3(FOR FUTURE USE)				2	2	2	2	2	2
	Ø4				2	2	2	2	2	2
	Ø5				2	2	2	2	2	2
	Ø6				2	2	2	2	2	2
	Ø7(FOR FUTURE USE)				2	2	2	2	2	2
	Ø8				2	2	2	2	2	2
	TOTAL DLC	3	5	9	9	17	8	4	4	4
	CONDUIT SIZE	2"	2 1/2"	3"	3"	3 1/2"	2-3"	3"	2 1/2"	2"

DETECTOR SCHEDULE

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-W-2	2	●●
2	2-W-2	2	
1	1-W-5	1	●
2	2-W-5	3	
1	1-N-4	1	
2	2-N-4	3	
2	1-E-6	2	●●
1	2-E-6	4	
1	1-E-1	1	●
2	2-E-1	3	
1	1-S-8	1	●●
2	2-S-8	2	
1	3-S-8	1	▲

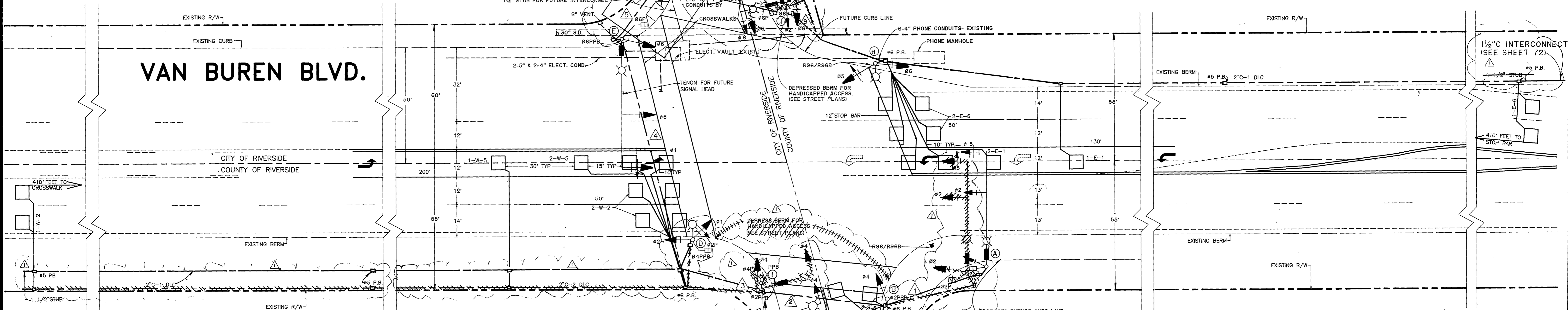
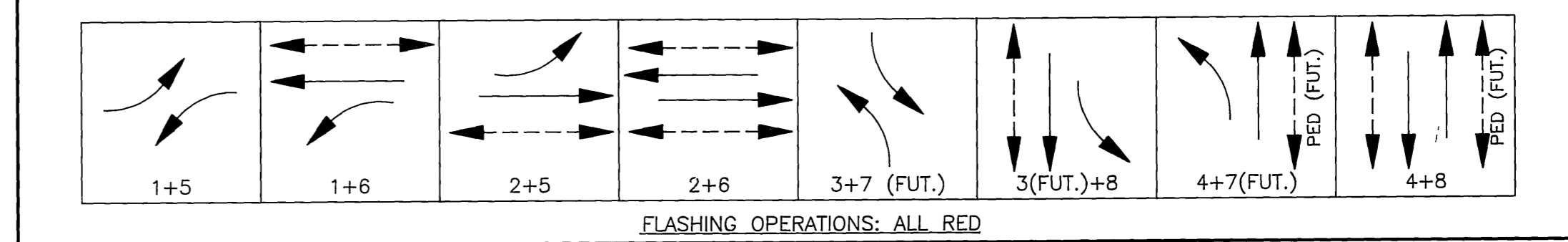
- ▲ DELAY
 ■ CALL-HOLD (EXTENSION)
 ● FOR SAMPLING
 DETECTOR SHALL BE RACK-MOUNTED 2-CHANNEL (ALSO SEE SPECIAL PROVISIONS)
- NOTES:**
 1. DETECTOR TIMING AND SAMPLING FEATURES SHALL BE ACCOMPLISHED THROUGH INTERNAL LOGIC OF THE CONTROLLER UNIT.
 2. SEE SPECIAL PROVISIONS REGARDING DETECTOR DISCONNECT.
 3. DETECTOR LOOPS DESIGNATED FOR SAMPLING SHALL ALSO PERFORM NORMAL OPERATIONS.



POLE SCHEDULE

NO.	TYPE	SIGNAL	MAST ARM LENGTH	SIGNAL MOUNTING			PPB	LUMINAIRE	I.S.N.S. LEGEND	REMARKS
				MA	POLE	PED				
(A)	29-5-80	50'	15'	MAS MAS	SV-1-T	SP-1-T		250 W H.P.S.	Barton ST 9000	
(B)	1-A				TV-2-T		2	1		
(C)	19-3-80	25' (30' FUT.)	15'	MAS	SV-1-T	SP-1-T	2	1	250 W H.P.S.	Van Buren ST 19900
(D)	15		15'		SV-2-TB	SP-1-T	4	2		
(E)	29-5-80	55'	15'	MAS	SV-1-T	SP-1-T	4	2	250 W H.P.S.	Barton ST 8900
(F)	1-A				TV-1-T	SP-1-T	6	3		
(G)	19-3-80	20' (30' FUT.)	15'	MAS	SV-1-T	SP-1-T	6	3	250 W H.P.S.	Van Buren ST 20000
(H)	15		15'		SV-2-TB				250 W H.P.S.	
(I)	PPB POST						6	3		

PHASE DIAGRAM



GENERAL NOTES:

- ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS DATE JANUARY 1988 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- ALL STRIPING, PAVEMENT MARKINGS, AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULED TURN ON. (SEE STRIPING PLAN)
- AT SERVICE POINT INSTALL 120 V. SIGNAL, 120 V. SIGN, AND 240 V. STREET LIGHT BREAKERS. (SEE SPECIAL PROVISIONS)
- THE ENGINEER SHALL APPROVE POLE AND CONDUIT RUNS PRIOR TO INSTALLATION BY CONTRACTOR.
- PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.
- A STREET OPENING PERMIT ISSUED BY THE DEPARTMENT OF PUBLIC WORKS IS REQUIRED FOR THIS WORK.
- SEE STREET IMPROVEMENT PLANS FOR WHEELCHAIR RAMPS AND DEPRESSIONS.
- ALL SIGNAL HEADS AND BACK PLATES SHALL BE METAL, ALL LENS SHALL BE 12" GLASS. M.A.S. LEFT-TURN HEADS SHALL HAVE RED, YELLOW, AND GREEN ARROWS SECTIONS.
- SEE SHEET 68D FOR STRIPING, SIGNING AND MARKINGS DETAILS.
- A COUNTY OF RIVERSIDE ENCROACHMENT PERMIT IS REQUIRED PRIOR TO THE START OF WORK.

REVIEWED FOR ENCROACHMENT PERMIT

APR 20 1989

RIVERSIDE COUNTY ROAD DEPT. PLANNING

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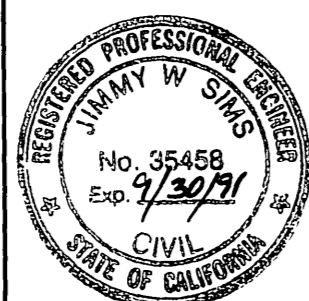
AS BUILT

APPROVED BY:

File With R-2971

Underground Service Alert
 Call: TOLL FREE
1-800-422-4133
 TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE
 CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL



PREPARED UNDER THE DIRECTION OF:
Handwritten signature
 REGISTERED CIVIL ENGINEER NO. 35458
 EXPIRATION DATE: 9-30-91 DATE: 10/14/88
 APPROVED BY:

J.F. Davidson Associates, Inc.
 ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
 3880 Lemon Street, Suite 300 11200 S Mt Vernon Ave., Suite "D" 73-080 El Paseo, Suite 106
 P.O. Box 483 Colton, CA 92324 Palm Desert, CA 92260
 Riverside, CA 92502 (714) 686-0844 (714) 925-1082
 FAX 714-686-9554 FAX 819-340-0529

SCALE: 1" = 20'-0"
 DATE: AUG.-1988
 BENCH MARK:

AS-BUILT.
 DESIGNED BY B.D. DRAWN BY K.T.O. CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *Handwritten signature* DATE: 12-23-88
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P.W. ENGR
 DATE: 3/23/89

SIGNAL PLAN
 VAN BUREN BLVD.
 AND
 BARTON STREET
 PROJECT NO. 8710058
 X-341
 71A 106
 SHEET OF
 FILE NO.: