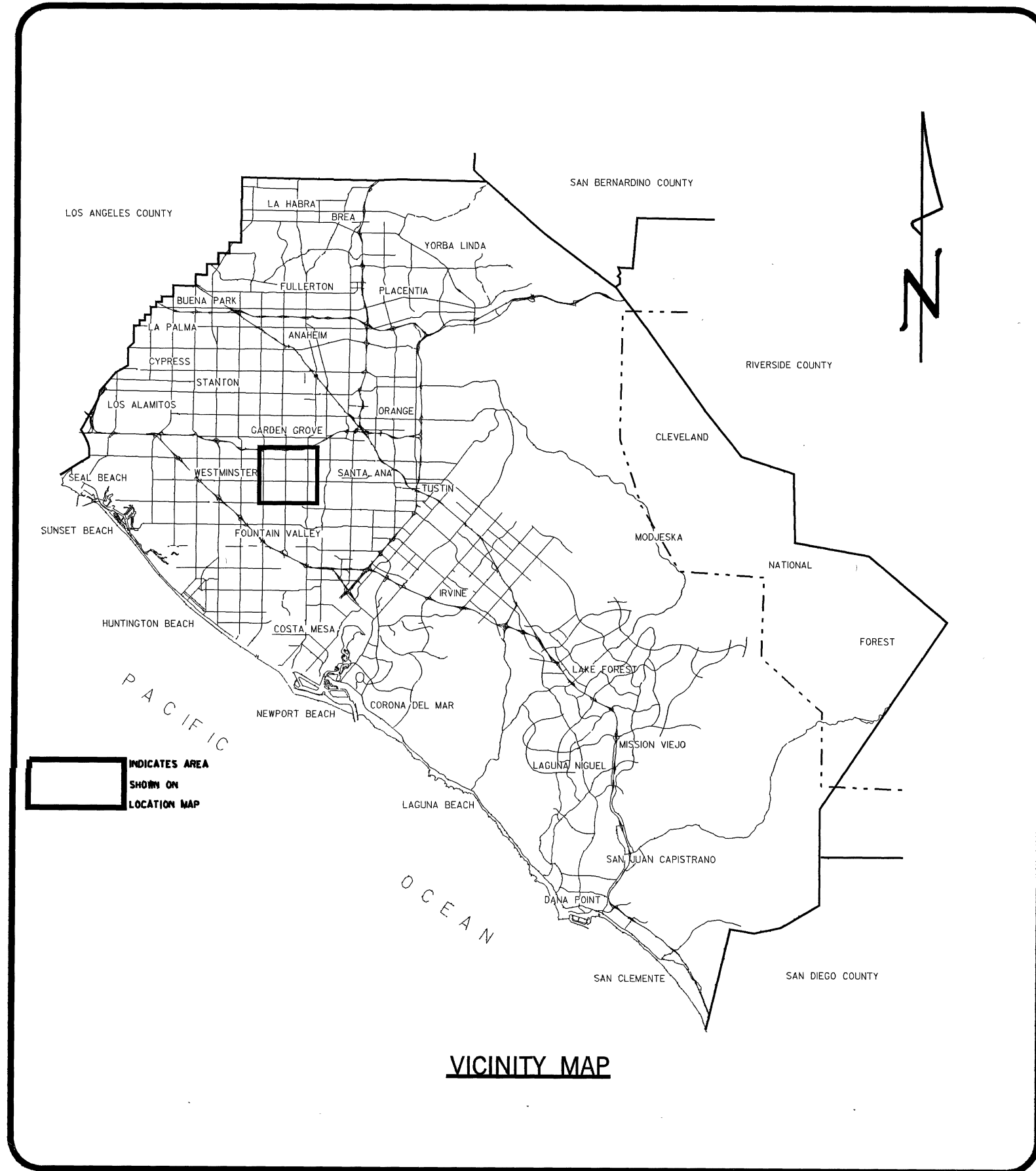
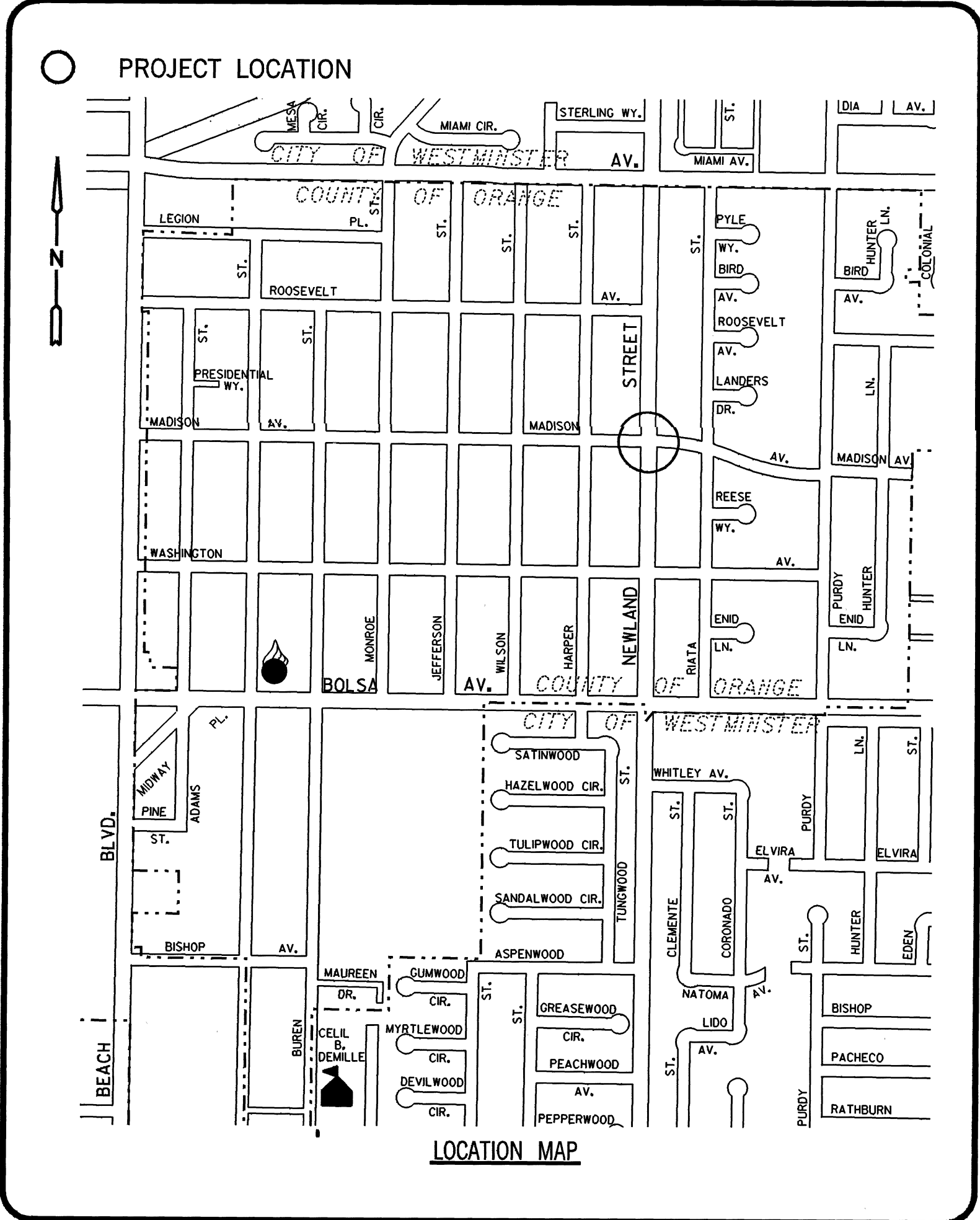


EFH 24
N15.1



VICINITY MAP



LOCATION MAP

ORANGE COUNTY
PUBLIC FACILITIES & RESOURCES DEPARTMENT

SANTA ANA, CALIFORNIA
JOHN W. SIBLEY, DIRECTOR

PLANS FOR THE CONSTRUCTION OF
A TRAFFIC SIGNAL
AT

NEWLAND STREET

AND

MADISON AVENUE

FEBRUARY 1997

FUNDED BY: COMMUNITY DEVELOPMENT BLOCK GRANT

HOUSING AND COMMUNITY DEVELOPMENT

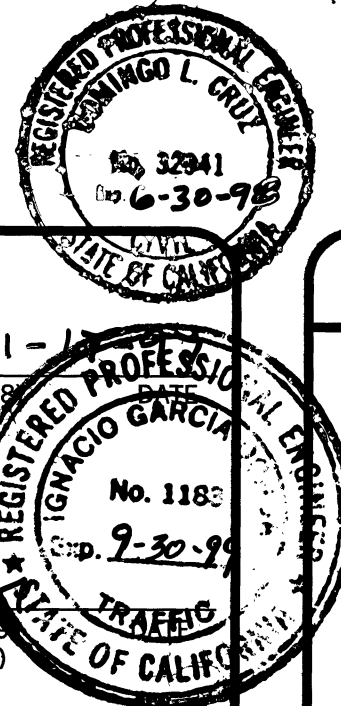
RECOMMENDED: *[Signature]* DATE: 1/14/97
MANAGER MANNY MANZO

APPROVED: *[Signature]* DATE: 1/14/97
DIRECTOR BOB WILSON

SUBMITTED: *[Signature]* DATE: 1-17-97
Sr. CIVIL ENGINEER DOMINGO L. CRUZ RCE 32941 (6-30-98)

RECOMMENDED: *[Signature]* DATE: 1-17-97
TRAFFIC ENGINEER I. G. OCHOA RCE 35217 (9-30-98) RTE 1183 (12-31-99)

APPROVED: *[Signature]* DATE: 1-21-97
CHIEF ENGINEER W. L. ZAUN



INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET
2	SIGNAL PLAN
3	DETAIL SHEET

UTILITY OWNER	CONTACT	PHONE NO.
THE GAS COMPANY	RON REED	(714) 634-3120
SOUTHERN CALIFORNIA EDISON	MARK MEIZNER	(714) 939-4736
GENERAL TELEPHONE	JAN LAFEVER	(714) 375-6701
PARAGON CABLE	MIKE BOGNER	(714) 895-6886
COUNTY SANITATION DISTRICT	DON CRAPNELL	(714) 962-2411
CITY OF WESTMINSTER	RAY WARE	(714) 898-3311
USA		1-800-422-4133

BENCH MARK:

BASIS OF BEARINGS:

NO.	DESCRIPTION	SHT.	APPROVED	DATE
REVISIONS				

W. O. NO. EC42016

INDUCTIVE LOOP DETECTOR SCHEDULE		
SENSOR UNIT	CHANNEL	DETECTOR
# 1	1 (1)	1-02 [1]
	2	2-02 [2]
# 2	1	3-02
	2 (2)	1-06 [3]
# 3	1	2-06 [4]
	2	3-06
# 4	1	1-04 [5]
	2	2-04 [6]
# 5	1	1-08 [7]
	2	2-08 [8]
# 6	1	EVP1
	2	EVP2

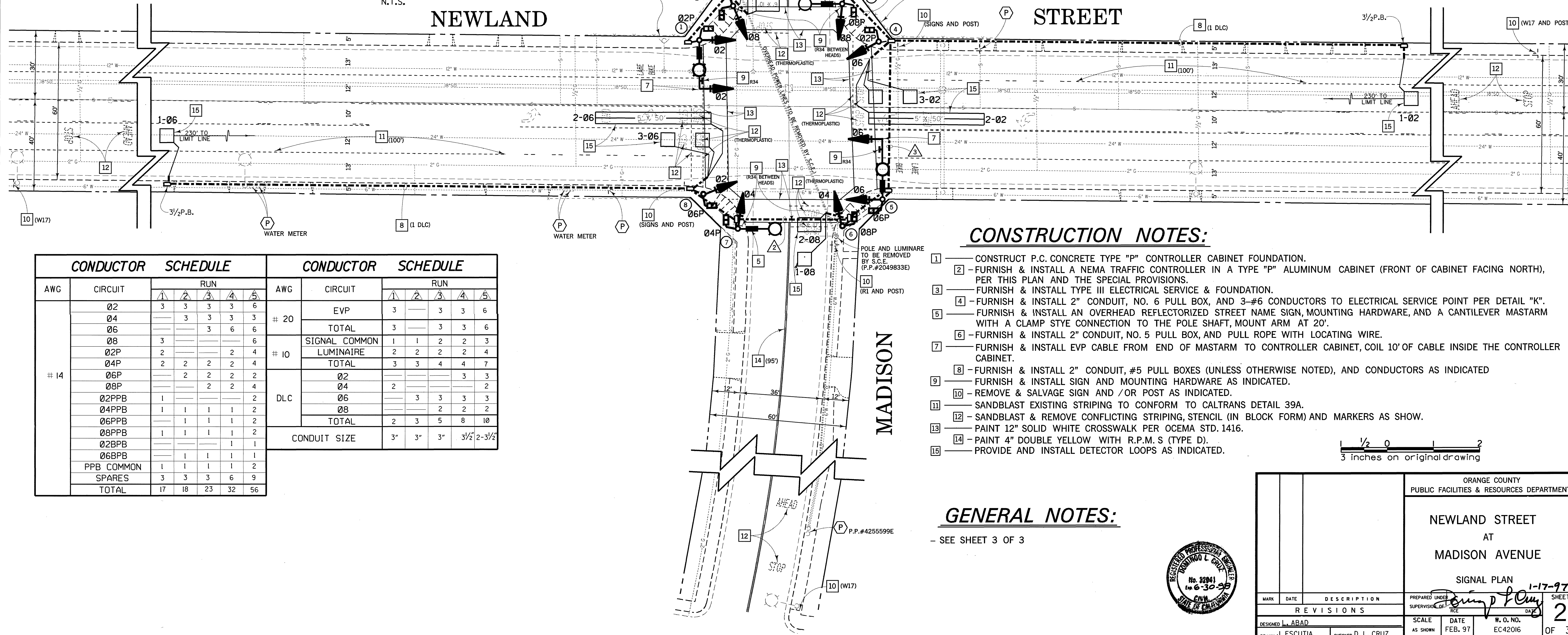
DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION. ALL DETECTOR UNITS SHALL BE RACK MOUNTED, DUAL CHANNEL, DUAL OUTPUT PER CHANNEL WITH INTEGRAL COLORGATED EXTENSION AND DELAY CAPABILITY. OUTPUT "A" SHALL BE TIMED. OUTPUT "B" SHALL BE PRESENCE MODE FOR SYSTEM SAMPLING ONLY.
(#) = SYSTEM SAMPLER NUMBER.
[] = VEHICLE COUNTING SYSTEM INPUT NUMBER.

PHASE	DIAGRAM			
VEHICULAR & PEDESTRIAN MOVEMENTS				
NEMA PHASE	02	04	06	08
COORDINATION FUNCTION	*	*	*	*
* DETERMINED BY MASTER COMPUTER DURING COORDINATED OPERATION.				
SEQUENCE WITH CALLS ON ALL PHASES.				

SWEEP PROVIDED BY CONTRACTOR (SCHEDULE 80)

CONTRACTOR TO PROVIDE LOCKING PULL BOX WITH PULL ROPE AND CONDUCTORS (5' MAX. FROM POLE). COIL 50' OF CONDUCTORS IN TO PULL BOX.

DETAIL "K"
N.T.S.



CONDUCTOR SCHEDULE						CONDUCTOR SCHEDULE							
AWG	CIRCUIT	RUN					AWG	CIRCUIT	RUN				
		1	2	3	4	5			1	2	3	4	5
# 14	02	3	3	3	3	6	# 20	EVP	3		3	3	6
	04		3	3	3	3		TOTAL	3		3	3	6
	06			3	6	6		SIGNAL COMMON	1	1	2	2	3
	08	3				6	# 10	LUMINAIRE	2	2	2	2	4
	02P	2			2	4		TOTAL	3	3	4	4	7
	04P	2	2	2	2	4	DLC	02				3	3
	06P		2	2	2	2		04	2				2
	08P			2	2	4		06		3	3	3	3
	02PPB	1				2		08			2	2	2
	04PPB	1	1	1	1	2		TOTAL	2	3	5	8	10
	06PPB		1	1	1	2	CONDUIT SIZE		3"	3"	3"	3 1/2"	2-3/2"
	08PPB	1	1	1	1	2							
	02BPB				1	1							
	06BPB		1	1	1	1							
	PPB COMMON	1	1	1	1	2							
SPARES	3	3	3	6	9								
TOTAL	17	18	23	32	56								

POLE SCHEDULE												
POLE DATA			SIGNAL		H.P.S.V. LUMINAIRE		SIGNAL MOUNTING		PED. PUSH BUTTON		FOUNDATION	
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	VEH.	M.A.	PED.	PHASE	POLE QUAD	TYPE	SIZE
1	I7-3-70	30'-0"	20'-0"	12'-0"	200*	SV-I-T	MAS	SP-I-CS	04	N	C	2'-6"X7'-0"
2	I-A	10'-0"				TV-I-T		SP-I-CS	02	E	S	2'-6"X3'-0"
3	I7D-1-70	30'-0"	▲	12'-0"	150*	SV-I-T		SP-I-CS	02	E	C	3'-6"X5'-0"
4	I-A	10'-0"				TV-I-T		SP-I-CS	08 (BPB) 02	S (BPB) E	S	2'-6"X3'-0"
5	I9-3-70	30'-0"	25'-0"	12'-0"	200*	SV-I-T	MAS	SP-I-CS	08	S	C	2'-6"X8'-0"
6	I-A	10'-0"				TV-I-T		SP-I-CS	06	W	S	2'-6"X3'-0"
7	I7D-1-70	30'-0"	▲	12'-0"	150*	SV-I-T		SP-I-CS	06	W	C	3'-6"X5'-0"
8	I-A	10'-0"				TV-I-T		SP-I-CS	04 (BPB) 06	N (BPB) W	S	2'-6"X3'-0"

EXACT POLE LOCATIONS DETERMINED BY ENGINEER IN THE FIELD.
POTHOLE POLE FOUNDATION LOCATIONS PRIOR TO ORDERING POLES.

* = PROVIDE AND INSTALL EXTERIOR MOUNTED GLARE SHIELD.
▲ = PROVIDE AND INSTALL SADDLE PLATE COVER.
(BPB) = BICYCLE PUSH BUTTON @ 3'-0".
S = SQUARE.
C = C.I.D.H.

LEGEND

(P) PROTECT IN PLACE



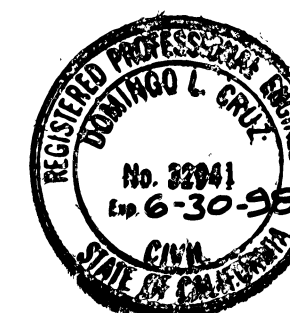
CONSTRUCTION NOTES:

- CONSTRUCT P.C. CONCRETE TYPE "P" CONTROLLER CABINET FOUNDATION.
- FURNISH & INSTALL A NEMA TRAFFIC CONTROLLER IN A TYPE "P" ALUMINUM CABINET (FRONT OF CABINET FACING NORTH), PER THIS PLAN AND THE SPECIAL PROVISIONS.
- FURNISH & INSTALL TYPE III ELECTRICAL SERVICE & FOUNDATION.
- FURNISH & INSTALL 2" CONDUIT, NO. 6 PULL BOX, AND 3-#6 CONDUCTORS TO ELECTRICAL SERVICE POINT PER DETAIL "K".
- FURNISH & INSTALL AN OVERHEAD REFLECTORIZED STREET NAME SIGN, MOUNTING HARDWARE, AND A CANTILEVER MASTARM WITH A CLAMP STYE CONNECTION TO THE POLE SHAFT, MOUNT ARM AT 20'.
- FURNISH & INSTALL 2" CONDUIT, NO. 5 PULL BOX, AND PULL ROPE WITH LOCATING WIRE.
- FURNISH & INSTALL EVP CABLE FROM END OF MASTARM TO CONTROLLER CABINET, COIL 10' OF CABLE INSIDE THE CONTROLLER CABINET.
- FURNISH & INSTALL 2" CONDUIT, #5 PULL BOXES (UNLESS OTHERWISE NOTED), AND CONDUCTORS AS INDICATED.
- FURNISH & INSTALL SIGN AND MOUNTING HARDWARE AS INDICATED.
- REMOVE & SALVAGE SIGN AND /OR POST AS INDICATED.
- SANDBLAST EXISTING STRIPING TO CONFORM TO CALTRANS DETAIL 39A.
- SANDBLAST & REMOVE CONFLICTING STRIPING, STENCIL (IN BLOCK FORM) AND MARKERS AS SHOW.
- PAINT 12" SOLID WHITE CROSSWALK PER OCEMA STD. 1416.
- PAINT 4" DOUBLE YELLOW WITH R.P.M.S (TYPE D).
- PROVIDE AND INSTALL DETECTOR LOOPS AS INDICATED.

1/2" = 0' 3 inches on original drawing

GENERAL NOTES:

SEE SHEET 3 OF 3



ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT		
NEWLAND STREET AT MADISON AVENUE		
SIGNAL PLAN 1-17-97		
MARK	DATE	DESCRIPTION
REVISIONS		
DESIGNED	DATE	W.O. NO.
DRAWN	CHECKED	DATE

$$\frac{1}{2} \quad 0 \quad 2$$

3 inches on original drawing

    	3-29-88 4-4-88 4-4-88 12-8-88 11-18-91 6-7-93 1-1-97	ADDED NOTE 16. DELETED TYPE II SERVICE. ADDED INTERCONNECT SPICE CABINET. MODIFIED INTERCONNECT SPICE CABINET. MODIFIED CONTROLLER CABINET WIRING. MODIFIED INTERCONNECT SPICE CABINET. MODIFIED OVERHEAD STREET NAME SIGN.	ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT SIGNAL DETAIL SHEET
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF _____ DATE _____
REVISIONS			SHEET 3 OF
DESIGNED _____	DRAWN _____	SCALE AS SHOWN	
			W. O. NO. EC42016