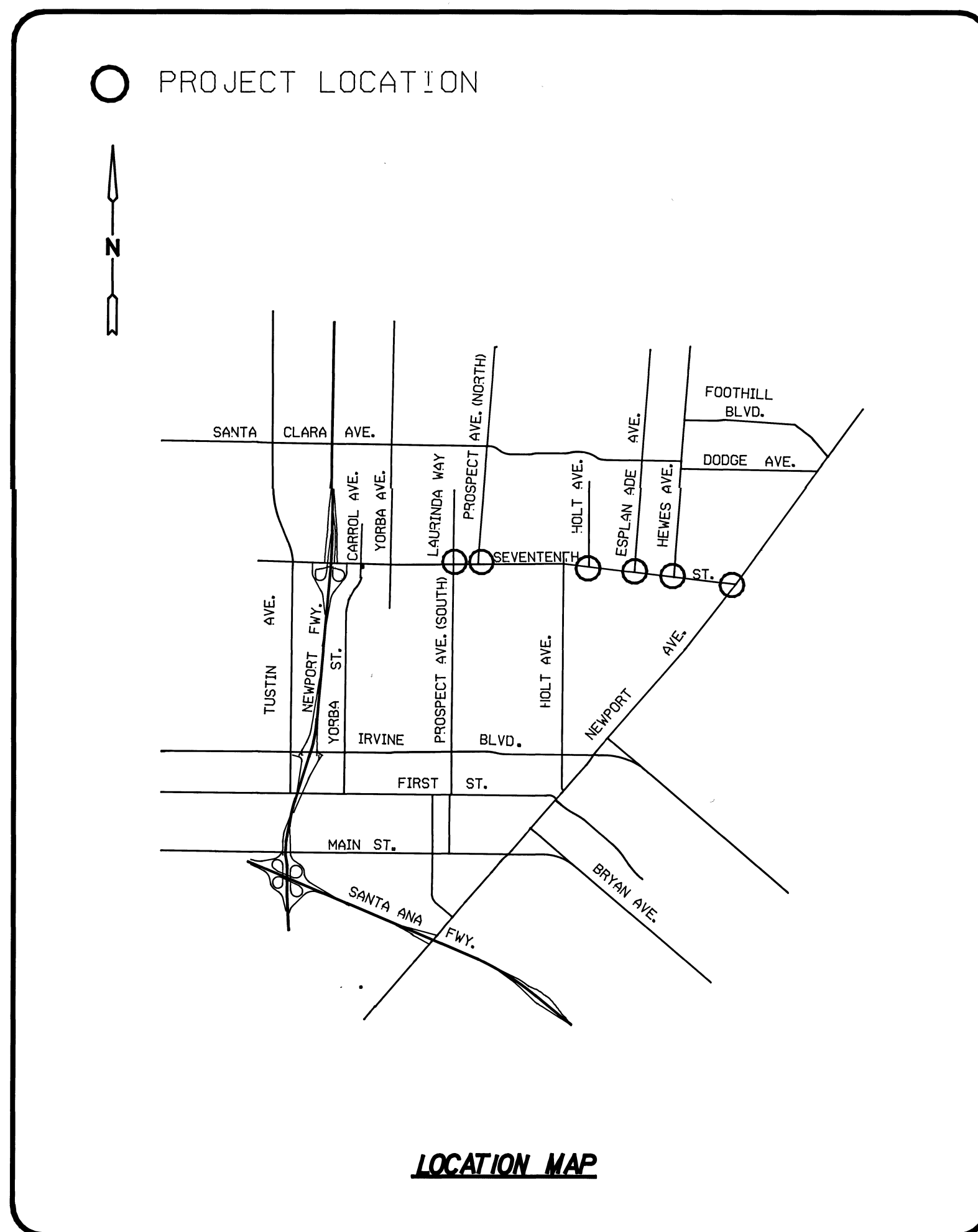
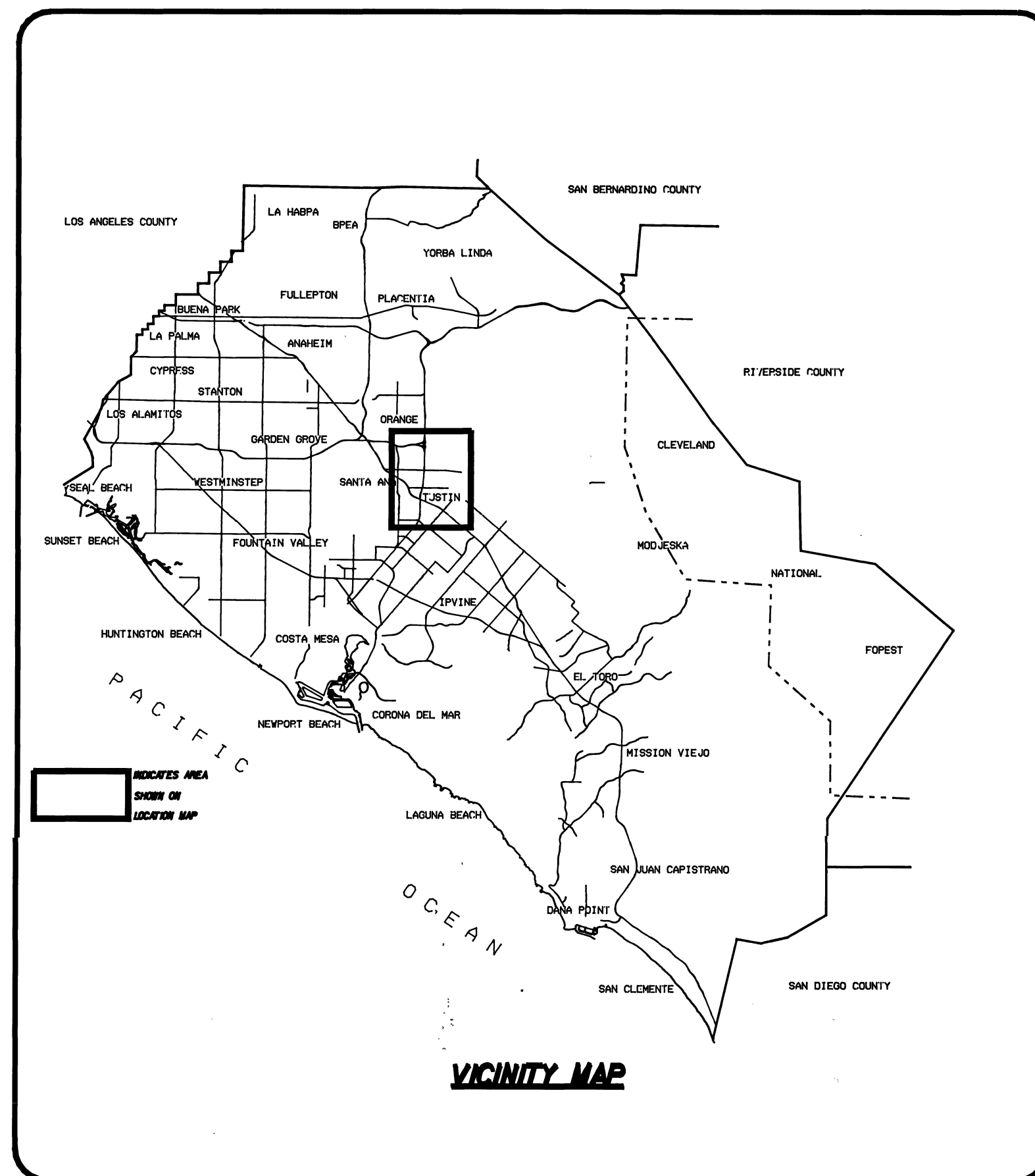




ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA, CALIFORNIA
M. STORM, DIRECTOR

PLANS FOR MODIFICATION OF
TRAFFIC SIGNAL CONTROL EQUIPMENT
ON
SEVENTEENTH STREET
AT
THE FOLLOWING LOCATIONS

- A. PROSPECT AVE. (SOUTH)/LAURINDA WAY
- B. PROSPECT AVE. (NORTH)
- C. HOLT AVE.
- D. ESPLANADE AVE.
- E. HEWES AVE.
- F. NEWPORT AVE.

DECEMBER, 1986

FUNDED BY: ROAD FUNDS/OCUTT (ORANGE COUNTY UNIFIED TRANSPORTATION TRUST)

EMA - PUBLIC WORKS

SUBMITTED: *Steve H. Hogan* 12/10/90
TRAFFIC ENGINEER RCE 292-46-891
S.M. HOGAN RTE 1135
DATE

RECOMMENDED: *J.R. Smith* 12/10/90
PROGRAM MANAGER RCE 22438-19-3D-891
K.R. SMITH DATE

APPROVED: *C.R. Nelson* 12-12-90
DIRECTOR OF PUBLIC WORKS
C.R. NELSON DATE

<u>INDEX OF SHEETS</u>	
SHEET	DESCRIPTION
1.	TITLE SHEET
2-7.	TRAFFIC SIGNAL PLAN - (LOC "A"-F")
8.	DETAIL SHEET

UTILITY OWNER	PHONE NO.
SO.CAL.GAS CO.	634-3122
SO.CAL.EDISON CO.	973-54
PACIFIC BELL	966-6198
CITY OF TUSTIN WATER DEPT.	544-8890
TENCO SERVICES	(213) 921-2271
USA	538-5227
	1-800-422-4133

<u>BENCH MARK:</u>	<u>BASIS OF BEARINGS:</u>
---------------------------	----------------------------------

NO.	DESCRIPTION	SHT.	APPROVED	DATE

R E V I S I O N S

W.O.NO. R25450

DWG.NO. _____

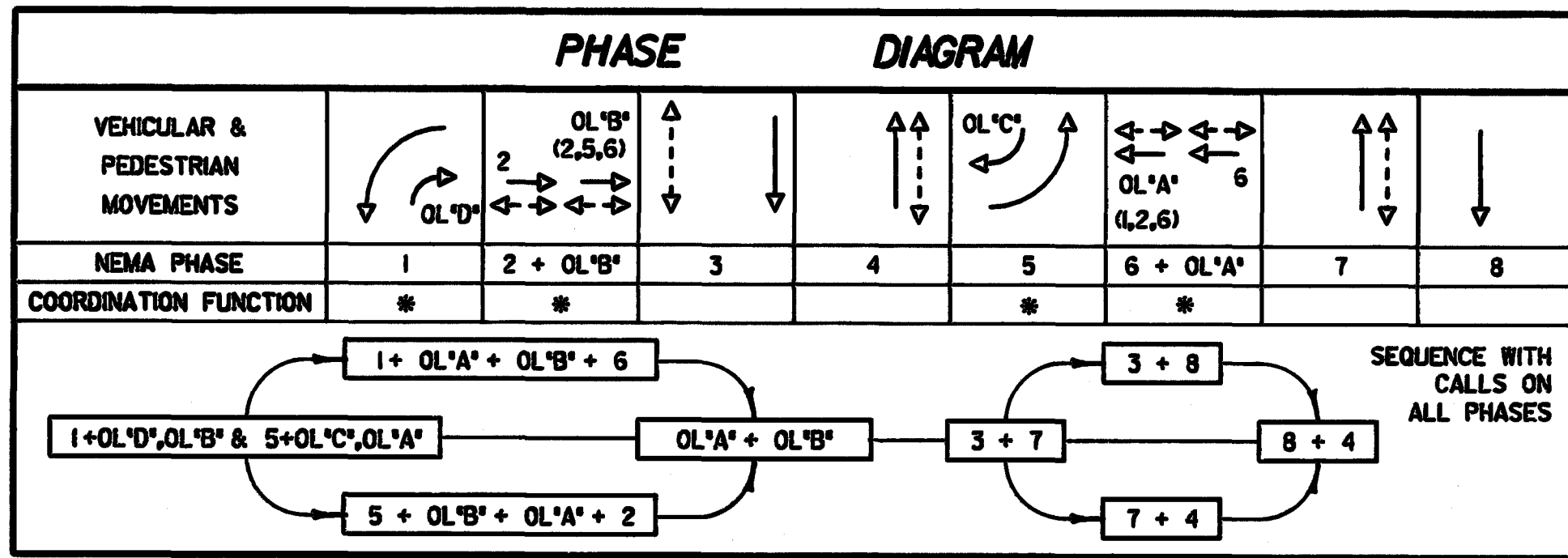
SHEET 1 OF 8

DRAWING NUMBER
S240.7

DRAWING NUMBER
S240.7

DRAWING NUMBER
S240.7

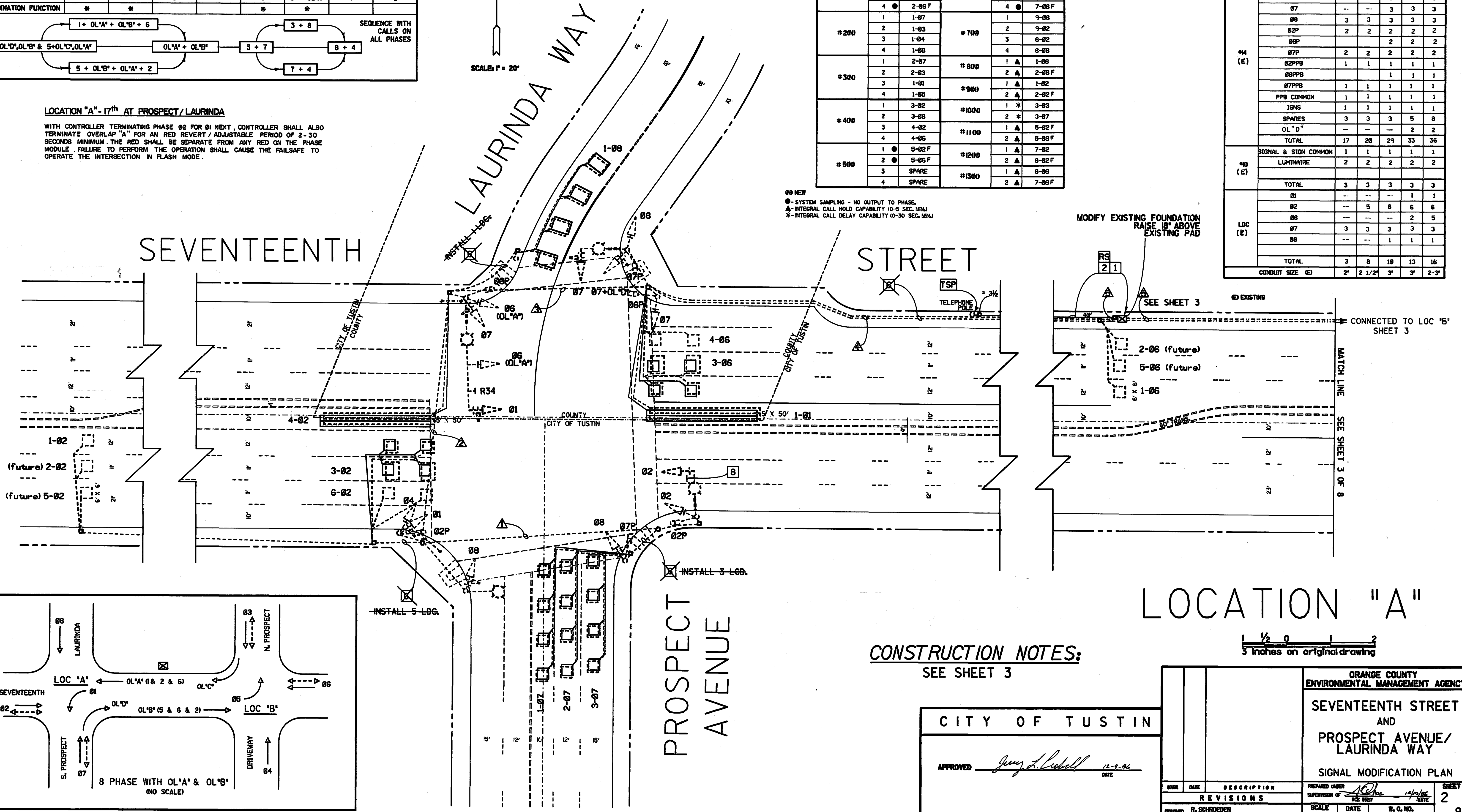
DRAWING NUMBER
S240.7



LOCATION "A" - 17th AT PROSPECT/LAURINDA

WITH CONTROLLER TERMINATING PHASE 02 FOR 01 NEXT, CONTROLLER SHALL ALSO TERMINATE OVERLAP "A" FOR AN RED REVERT / ADJUSTABLE PERIOD OF 2-30 SECONDS MINIMUM. THE RED SHALL BE SEPARATE FROM ANY RED ON THE PHASE MODULE. FAILURE TO PERFORM THE OPERATION SHALL CAUSE THE FAILSAFE TO OPERATE THE INTERSECTION IN FLASH MODE.

SCALE: 1" = 20'



INDUCTIVE LOOP DETECTOR SCHEDULE					
SENSOR UNIT	CHANNEL	DETECTOR	SENSOR UNIT	CHANNEL	DETECTOR
#100	1	1-02	#640	1	7-02
	2	2-02 F		2	8-02 F
	3	1-06		3	6-06
	4	2-06 F		4	7-06 F
#200	1	1-07	#700	1	9-06
	2	1-03		2	9-02
	3	1-04		3	6-02
	4	1-08		4	8-08
#300	1	2-07	#800	1	1-06
	2	2-03		2	2-06 F
	3	1-01		1	1-02
	4	1-05		2	2-02 F
#400	1	3-02	#1000	1	3-03
	2	3-06		2	3-07
	3	4-02		1	5-02 F
	4	4-06		2	5-06 F
#500	1	5-02 F	#1200	1	7-02
	2	5-06 F		2	8-02 F
	3	SPARE		1	6-06
	4	SPARE		2	7-06 F

NO NEW
● - SYSTEM SAMPLING - NO OUTPUT TO PHASE.
▲ - INTEGRAL CALL HOLD CAPABILITY (0-5 SEC. MIN.)
* - INTEGRAL CALL DELAY CAPABILITY (0-30 SEC. MIN.)

CONDUCTOR SCHEDULE					
AWG	CIRCUIT	RUN			
#14 (E)	01	3	3	3	3
	02	3	3	3	3
	06 (OL'A*)	3	3	3	3
	07	3	3	3	3
	08	3	3	3	3
	02P	2	2	2	2
	06P	2	2	2	2
	07P	2	2	2	2
	02PPB	1	1	1	1
	06PPB	1	1	1	1
#10 (E)	07PPB	1	1	1	1
	PPB COMMON	1	1	1	1
	ISNS	1	1	1	1
	SPARES	3	3	3	3
	OL'D	2	2	2	2
	TOTAL	17	20	29	36
	SIGNAL & SIGN COMMON	1	1	1	1
	LUMINAIRE	2	2	2	2
	TOTAL	3	3	3	3
	CONDUIT SIZE (E)	2"	2 1/2"	3"	2-3"

MODIFY EXISTING FOUNDATION
RAISE 18" ABOVE
EXISTING PAD

RS 21

SEE SHEET 3

2-06 (future)

5-06 (future)

6" x 1-06

5'-11" TRAIL

LOCATION "A"

1/2 0 1 2
3 inches on original drawing

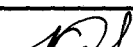
CONSTRUCTION NOTES:
SEE SHEET 3

CITY OF TUSTIN

APPROVED *Greg L. Lusk* 12-9-06
DATE

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
SEVENTEENTH STREET AND PROSPECT AVENUE/ LAURINDA WAY	
SIGNAL MODIFICATION PLAN	
NAME	DATE
REVISIONS	
DESIGNED	SCALE
CHECKED	DATE
W. O. NO.	R25450
SHEET	2
OF	8

MARK	DATE	DESCRIPTION	PREPARED UNDER	SHEET 3
REVISIONS			SUPERVISION OF <i>[Signature]</i> 12/2/86 VICE DIST DATE	
DESIGNED	R. SCHROEDER		SCALE	N.O. R25450
C. MANSFIELD	M. YAMADA		DATE	
AS SHOWN				OF 8

				ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		SHEET 4	
				SEVENTEENTH STREET AND HOLT AVENUE		OF 8	
				SIGNAL MODIFICATION PLAN			
MARK	DATE	DESCRIPTION		PREPARED UNDER	 12/10/86		
REVISIONS				SUPERVISION OF	NCE 3507 DATE		
DESIGNED	R. SCHROEDER			SCALE	DATE	W. O. NO. R25450	
DRAWN	NUNN/MANSFIELD			AS SHOWN			
CHECKED	M. YAMADA						

DRAWING NUMBER
S240.2
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTRATION NUMBER 07049

DRAWING NUMBER
S240.2
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTRATION NUMBER 07049

DRAWING NUMBER
S240.2
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTRATION NUMBER 07049

CONDUCTOR		SCHEDULE							
AWG	CIRCUIT	RUN							
		1	2	3	4	5	6	7	8
*1/4 (N)	01	3	3	3	4	6			
	02				3	6			
	04	3	3			3			
	06	3	3	3		6			
	02PED				2	2	4		
	04PED	2	2	2		4			
	02PPB			1		2			
	04PPB	1	1	1		2			
	PPB COMMON	1	1	1	1	3			
	ISNS	1	1		1	2			
*10 (N)	SPARE	3	3	3	3	9			
	TOTAL	17	20	16	7	47			
	LUMINAIRES	2	2		2	4			
LOOP DETECTOR CABLE (N)	SIGNAL & SIGN COMM	1	1	1	1	3			
	TOTAL	3	3	1	3	7			
	01		1			1			
TOTAL	02			2		2			
	06		2			2			
	04E					2			
CONDUIT SIZE (E)	TOTAL		3	2		7			
	00	2"	2"	2"	2"	2-3"			
	00	2"	2"						

INDUCTIVE LOOP DETECTOR SCHEDULE		
SENSOR UNIT	CHANNEL	DETECTOR
*1(N)	1	1-02
	2	2-02(FUTURE)
	3	1-06
	4	2-06(FUTURE)
*2(N)	1	1-01
	2	1-04
	3	SPARE
	4	SPARE
*3(N)	1	1-02
	2	2-02(FUTURE)
*4(N)	1	1-06
	2	2-06(FUTURE)
*5(N)	1	2-04
	2	SPARE

● - SYSTEM SAMPLING - NO OUTPUT TO PHASE.
▲ - INTEGRAL CALL HOLD CAPABILITY (0-5 SEC. MIN.)
* - INTEGRAL CALL DELAY CAPABILITY (0-30 SEC. MIN.)
N - NEW

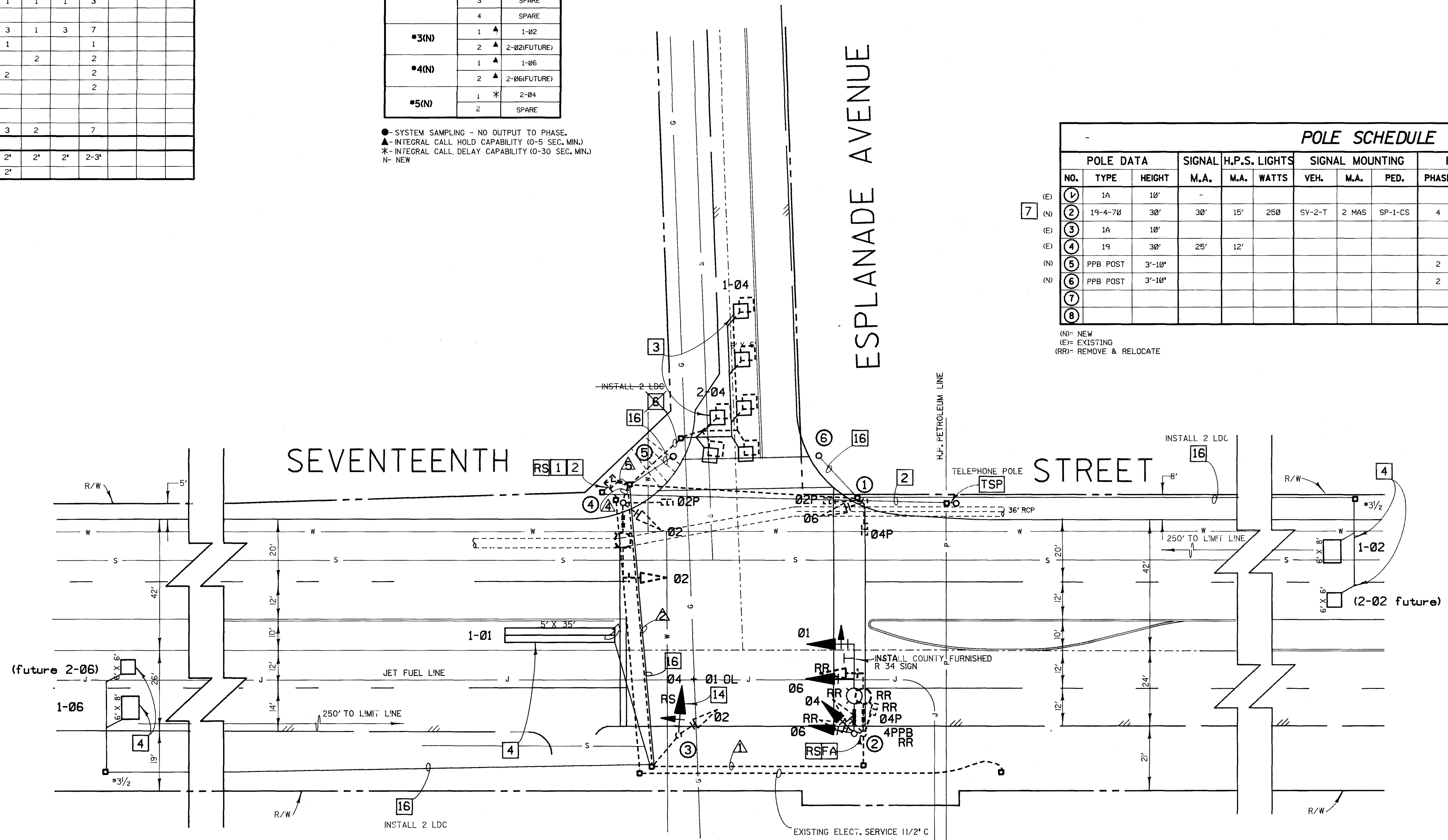
PHASE		DIAGRAM	
VEHICULAR & PEDESTRIAN MOVEMENTS	OL	←---→	↑
		→	↓
NEMA PHASE	1+6	2+6	4
COORDINATION FUNCTION	•	•	
1+6 → 2+6 → 4			

POLE SCHEDULE											
POLE DATA			SIGNAL		H.P.S. LIGHTS		SIGNAL MOUNTING		P.P.B.		ILLUMINATED SIGN
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	VEH.	M.A.	PED.	PHASE	QUAD	MESSAGE(DBL.FACE)
(E) 1	1A	10'	-	-	-						
(N) 2	19-4-70	30'	30'	15'	250	SV-2-T	2 MAS	SP-1-CS	4	SE	Esplanade (RR)
(E) 3	1A	10'									
(E) 4	19	30'	25'	12'							
(N) 5	PPB POST	3'-10"							2	NE	1'-6" X 1'-6"
(N) 6	PPB POST	3'-10"							2	NW	1'-6" X 1'-6"
(E) 7											
(E) 8											
(E) 9											

(N)= NEW
(E)= EXISTING
(RR)= REMOVE & RELOCATE

C = C.I.D.P.
S = SQUARE

NEED NEW SIGN HANGER



CONSTRUCTION NOTES
SEE PAGE 3

1 1/2 0 2
3 inches on original drawing

LOCATION "D"

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY			
SEVENTEENTH AT ESPLANADE			
SIGNAL MODIFICATION PLAN			
MARK	DATE	DESCRIPTION	PREPARED UNDER
REVISIONS		SUPERVISION OF	12/10/06
DESIGNED	DATE	SCALE	DRAWING NO.
DRAWN	DATE	CHECKED	W.D. R20-008
SHEET 5/8			OF --

DRAWING NUMBER
S240.3

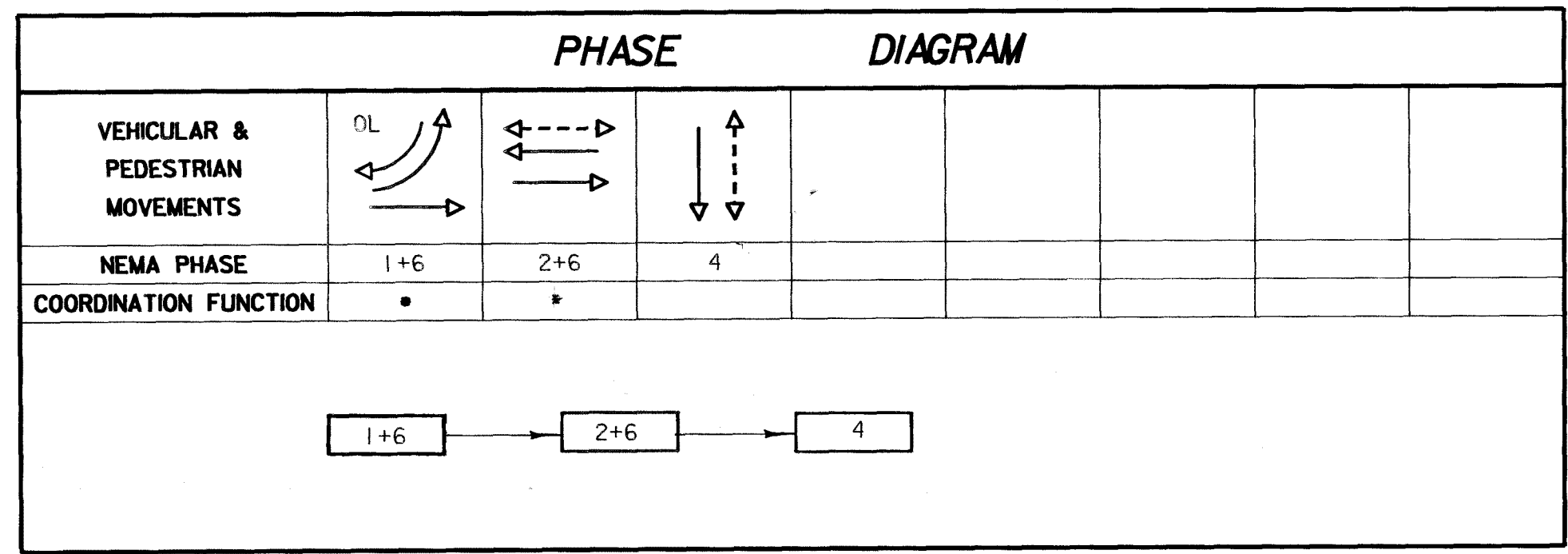
DRAWING NUMBER
S240.3

DRAWING NUMBER
S240.3

5 CONDUCTOR		SCHEDULE							
AWG	CIRCUIT	RUN							
		1	2	3	4	5	6	7	8
*14 (N)	01	3	3	3		6			
	02		3		3	6			
	04	3	3			3			
	06	3	3			3			
	02PED			2	2	4			
	04PED	2	2	2		6			
	02PPB			1		2			
	04PPB	1	1	1		2			
	PPB COMMON	1	1	1	1	2			
	ISNS	2	2		2	4			
*10 (N)	SPARE	3	3	3	3	9			
	TOTAL	18	21	13	11	47			
	LUMINAIRES	2	2		2	4			
LOOP DETECTOR CABLE (N)	SIGNAL & SIGN COMM	1	1	1	1	3			
	TOTAL	3	3	1	3	7			
	01		1			1			
TOTAL	02			2		2			
	04(E)					2			
	06		2			2			
CONDUIT SIZE (E)	00	2"	2"	2"	2"	2-3"			
	00	2"							
	TOTAL		3	2		5			

INDUCTIVE LOOP DETECTOR SCHEDULE		
SENSOR UNIT	CHANNEL	DETECTOR
*1(N)	1	1-02
	2	2-02(F)
	3	1-06
	4	2-06(F)
*2(N)	1	1-01
	2	1-04
	3	SPARE
	4	SPARE
*3(N)	1	1-02
	2	2-02(F)
*4(N)	1	1-06
	2	2-06(F)
*5(N)	1	2-04
	2	SPARE

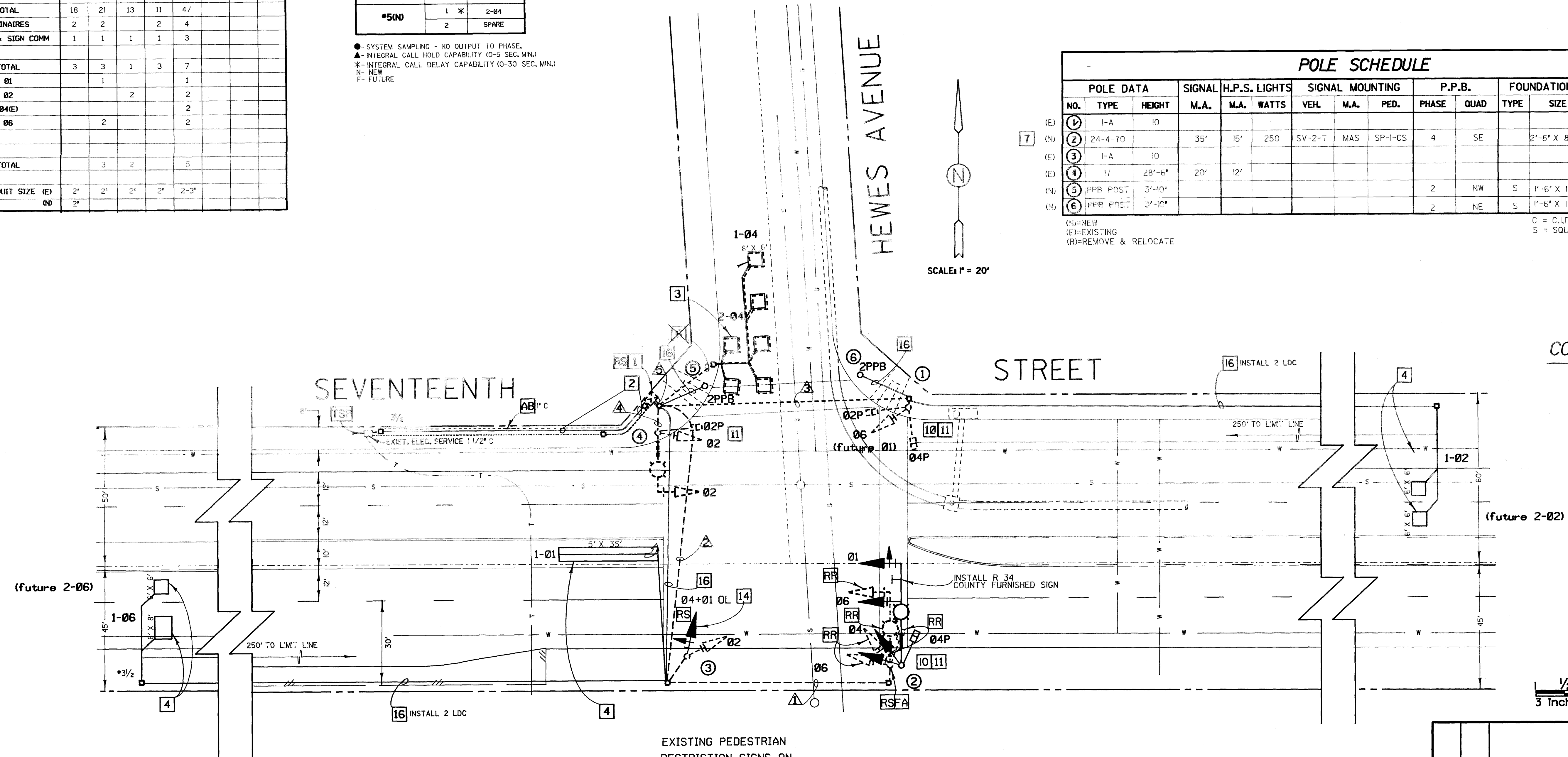
● - SYSTEM SAMPLING - NO OUTPUT TO PHASE.
▲ - INTEGRAL CALL HOLD CAPABILITY (0-5 SEC. MIN.)
* - INTEGRAL CALL DELAY CAPABILITY (0-30 SEC. MIN.)
N - NEW
F - FUTURE



POLE SCHEDULE												
POLE DATA			SIGNAL		H.P.S. LIGHTS		SIGNAL MOUNTING			P.P.B.		ILLUMINATED SIGN
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	VEH.	M.A.	PED.	PHASE	QUAD	TYPE	SIZE
(E) 1	I-A	10										
(N) 2	24-4-70		35'	15'	250	SV-2-T	MAS	SP-I-CS	4	SE		2'-6" X 8'-0"
(E) 3	I-A	10										
(E) 4	I/I	28'-6"	20'	12'								
(N) 5	PPB POST	3'-10"							2	NW	S	1'-6" X 1'6"
(N) 6	PPB POST	3'-10"							2	NE	S	1'-6" X 1'6"

(N)=NEW
(E)=EXISTING
(R)=REMOVE & RELOCATE

CONSTRUCTION NOTES
SEE PAGE 3



EXISTING PEDESTRIAN
RESTRICTION SIGNS ON
POLES 3 AND 4.

LOCATION "E"

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY			
SEVENTEENTH STREET AT HEWES AVENUE SIGNAL MODIFICATION PLAN			
MARK	DATE	DESCRIPTION	PREPARED UNDER
REVISIONS			SUPERVISION OF
DESIGNED	DATE	SCALE	DATE
DRAWN	DATE	AS SHOWN	DATE
N. NUAN			MY
W.O.* R25450			DATE
SHEET			6
OF			8

