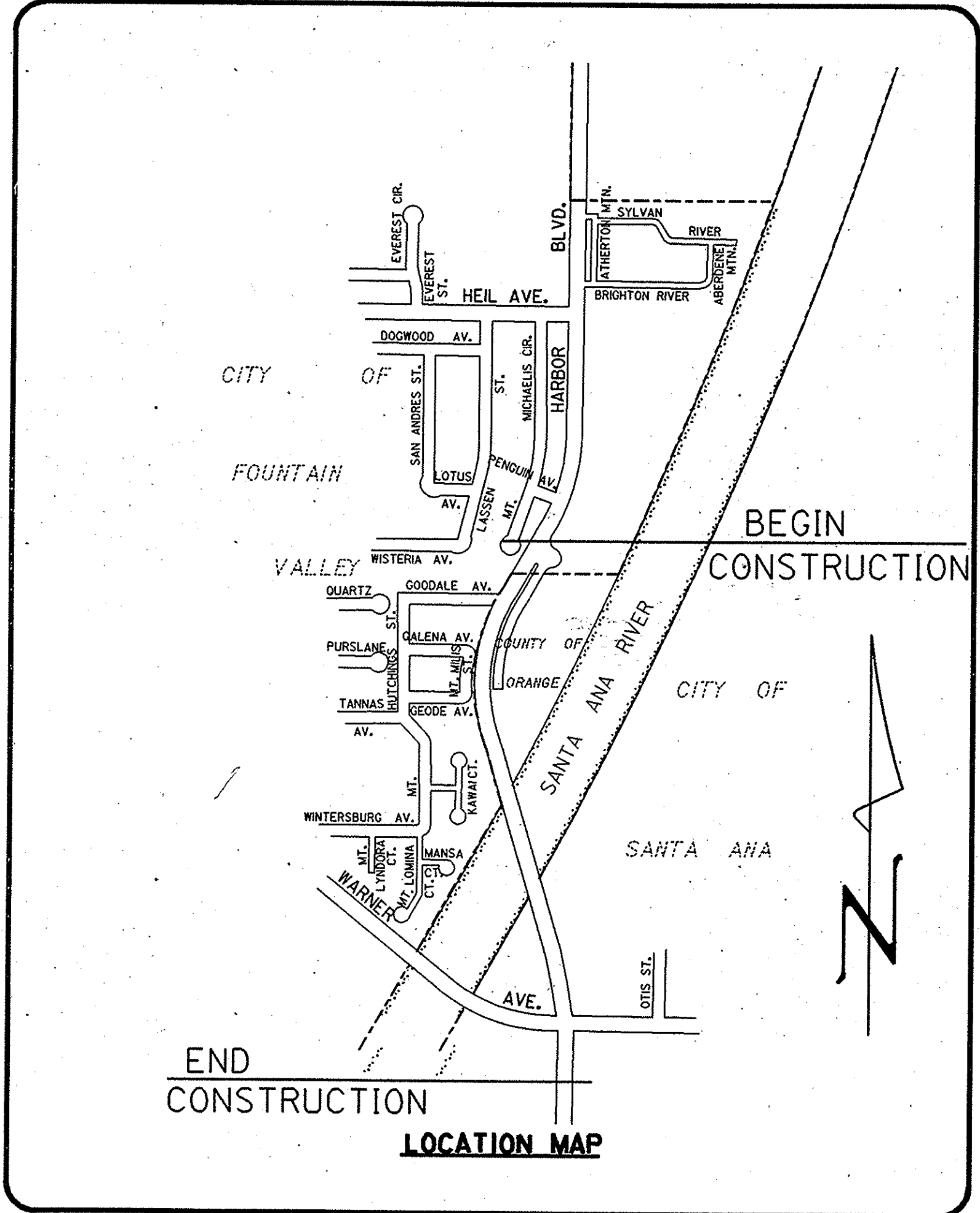
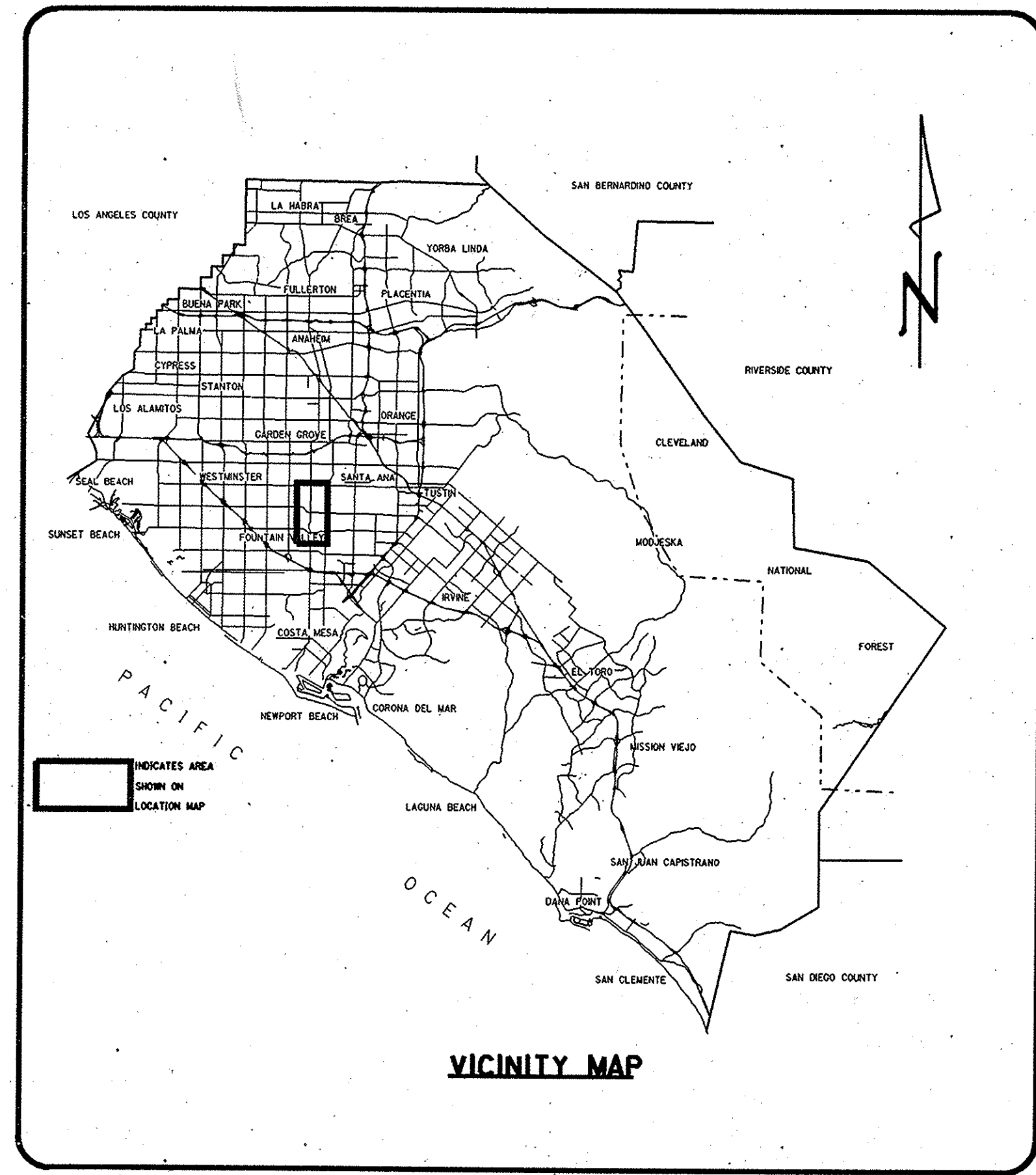




ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY
SANTA ANA, CALIFORNIA
MICHAEL M. RUANE, DIRECTOR

PLANS FOR CONSTRUCTION OF
HARBOR BLVD. IMPROVEMENTS
FROM
N'LY OF GOODALE AVENUE
TO
S'LY OF WARNER AVENUE

AND
HARBOR BLVD. BRIDGE (SA 29)
OVER SANTA ANA RIVER (E01)
MARCH 1993

FUNDED BY: COUNTY ROAD FUNDS, MEASURE (M)
CITY OF SANTA ANA, CITY OF FOUNTAIN VALLEY

- DEVIATIONS:**
- Design Speed = 50 MPH in lieu of 60 MPH for Major Arterial Highway.
 - Typical Section reduced: 44' travel way with 4' raised median and 6' sidewalk.
 - Typical Section reduced: 1 foot from back of walk to hinge point.
 - Profile Grade less than 0.5%: Profile of roadway less than 0.5% for a distance of approximately 800'.

EMA - PUBLIC WORKS

SUBMITTED: *Vincent R. ...* 3-5-93
ROAD DESIGN CHIEF DATE

RECOMMENDED: *J. W. Williams* 3-5-93
DESIGN DIVISION MANAGER DATE

APPROVED: *William L. ...* 3-5-93
DIRECTOR OF PUBLIC WORKS DATE

CITY OF SANTA ANA

APPROVED: *George ...* 3-4-93
DATE

CITY OF FOUNTAIN VALLEY

APPROVED: *...* 05/10/93
DATE

INDEX OF SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET
2	NOTES AND MEDIAN TYPICAL SECTIONS
3	TYPICAL SECTIONS
4	TYPICAL SECTIONS
5	PLAN and PROFILE - 21+00 to 28+00
6	PLAN and PROFILE - 28+00 to 37+00
7	PLAN and PROFILE - 37+00 to 44+00
8	PLAN and PROFILE - 44+00 to 52+00
9	INTERSECTION DETAILS - Frontage Rd./Goodale
10	RETAINING WALL
11	SLOPE LINING & CLOSURE WALL
12	SLOPE LINING AT CATCH BASIN - 29+25
*13	LOCAL DRAINAGE - Plan & Profile
*14	LOCAL DRAINAGE - Mod. Type V J.S.
*15	LOCAL DRAINAGE - mod. Type I Inlet
*16	LOCAL DRAINAGE - Sidewalk Drain
17	GENERAL PLAN
18	DECK CONTOUR
19	FOUNDATION PLAN
19A	CHANNEL LINING DETAILS
20	ABUTMENT
21	ABUTMENT DETAILS
22	APPROACH SLAB
23	PIERS
24	PIER WALL DETAILS
25	TYPICAL SECTION
26	GIRDER LAYOUT
27	DECK REINFORCEMENT
28	PRE-STRESSED I-GIRDER
29	100-TON PILING
30-32	LOG OF SOIL BORINGS
33-35	BRIDGE DEMOLITION PLAN
36-37	STRIPING PLAN
38	SIGNAL PLAN
39-44	LANDSCAPING PLAN
45-60	CROSS SECTIONS

* REPLACED BY SHEETS 13A, B; 14A; 15A

SHEETS G-1 to G-6; P.S. CONCRETE GIRDER LAYOUT & NOTES - SHOP DRAWINGS

UTILITY	OWNER	PHONE NO.	CONTACT
So. Calif. Gas Company		714 634-3315	Don Lake
Western Union		714 563-0717	Roland Finger
Edison Company		714 939-4732	Glenn Larson
Pacific Bell		714 259-4487	Mark Gay
City of Fountain Valley		714 965-4400	Bob Kellison
City of Santa Ana		714 565-4021	Charles Borreson
County Sanitation Dist. of O.C.		714 962-2411 x538	Russ Wold
Orange Co. Transit District		714 638-9000 x4500	Bill Battery
Bus Stop Shelters of Calif.		714 544-3232	Becky Kaiser
UNDERGROUND SERVICE ALERT		1-800-422-4133	

BENCH MARK: IF 131 69

ABOUT 0.1 MI. NORTH ALONG HARBOR BLVD. FROM THE INT. OF WARNER AVE. TO THE CONCRETE BRIDGE OVERCROSSING OF THE SANTA ANA RIVER; SET IN THE TOP OF THE CONCRETE WALK OF THE SOUTHEAST CORNER OF BRIDGE, DIRECTLY UNDER THE 1934 SCRIBED IN BRIDGE, 10 INCHES HIGHER THAN THE BRIDGE DECK.

1984 ADJUSTMENT ELEVATION: 67.237

BASIS OF BEARINGS:

FROM RS 89-1227, LINE TAKEN FROM T-207/GPS 4048, TO INTERSECTION OF HARBOR BLVD. & WARNER AVE. (OCS ALUM. DISC W/PUN. MARK STAMPED "4-75", SAID LINE TO BE S80°35'07"E.

NO.	DESCRIPTION	SHT.	APPROVED	DATE
3	REVISED AS SHOWN AT EVERY SHEET	5, 6, 8, 9, 10, 11, 13, 13B, 14A, 17, 19, 20, 21, 22, 23, 23A, 24, 25, 28, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60		3/99
2	REVISIONS TO ABUTMENT PLAN	20	W. L. ...	4/2/93
1	ADD DECK CONTOUR SHEET	18	W. L. ...	4/2/93
1	REVISED CONSTRUCTION NOTES	2	W. L. ...	4/2/93
1	REVISED LOCAL DRAINAGE	6, 13A, 13B, 14A, 15A	W. L. ...	4/2/93

SHEETS G-1 TO G-3; P.S. CONCRETE GIRDER SHOP DRAWINGS