

**DRAFT ENVIRONMENTAL IMPACT REPORT (Main Volume)**

Appendix A	Environmental Impact Criteria
Appendix B	Safety
Appendix C	Environmental Setting
Appendix D	Biological Environment
Appendix E	Oceanography/ Longshore Sand Transport
Appendix F	Energy Conservation/ Specialized New Industrial Formation
Appendix G	Soils and Geology/ Traffic
Appendix H	Natural Gas Supply and Demand/ Air Quality/ Aesthetics/ Archaeology/ Historical Sites/ Expansion of LNG Facility Capacity

**OXNARD LNG DRAFT EIR:  
CONTENTS**

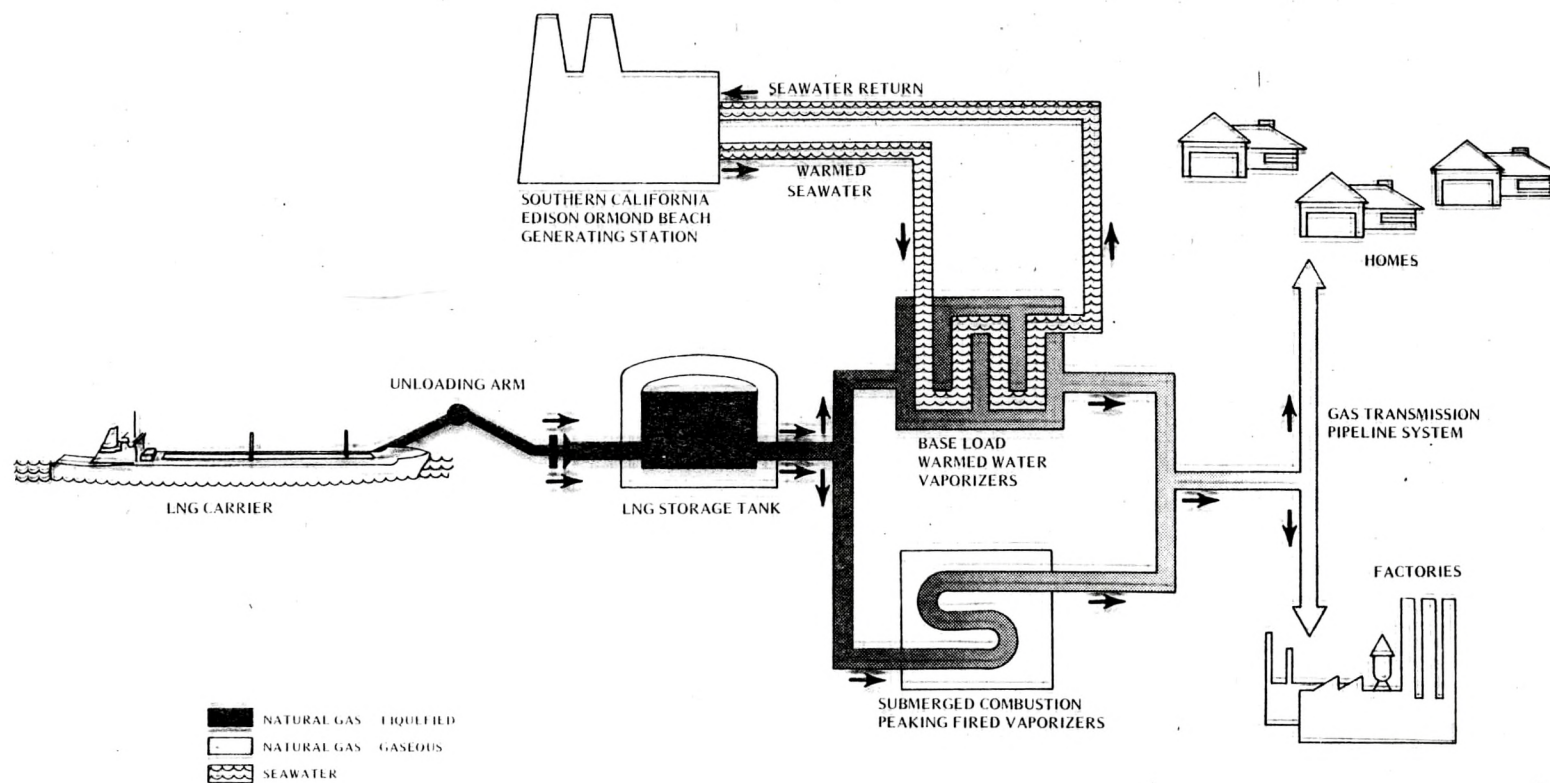
**LOCATION:** All workshop sessions will be held in the City Council Chambers of the Oxnard City Hall.

**TIME AND DAY:** All sessions are scheduled from 3:00 to 5:00 PM on Tuesdays.

**TOPICS:**

Workshop I: August 24	Project Description Natural Gas Supply and Demand Environmental Setting Overview
Workshop II: September 7	Safety
Workshop III: September 21	Environmental Impacts (except Safety and Economics)
Workshop IV: October 5	Economic Impacts
Workshop V: October 26	Open

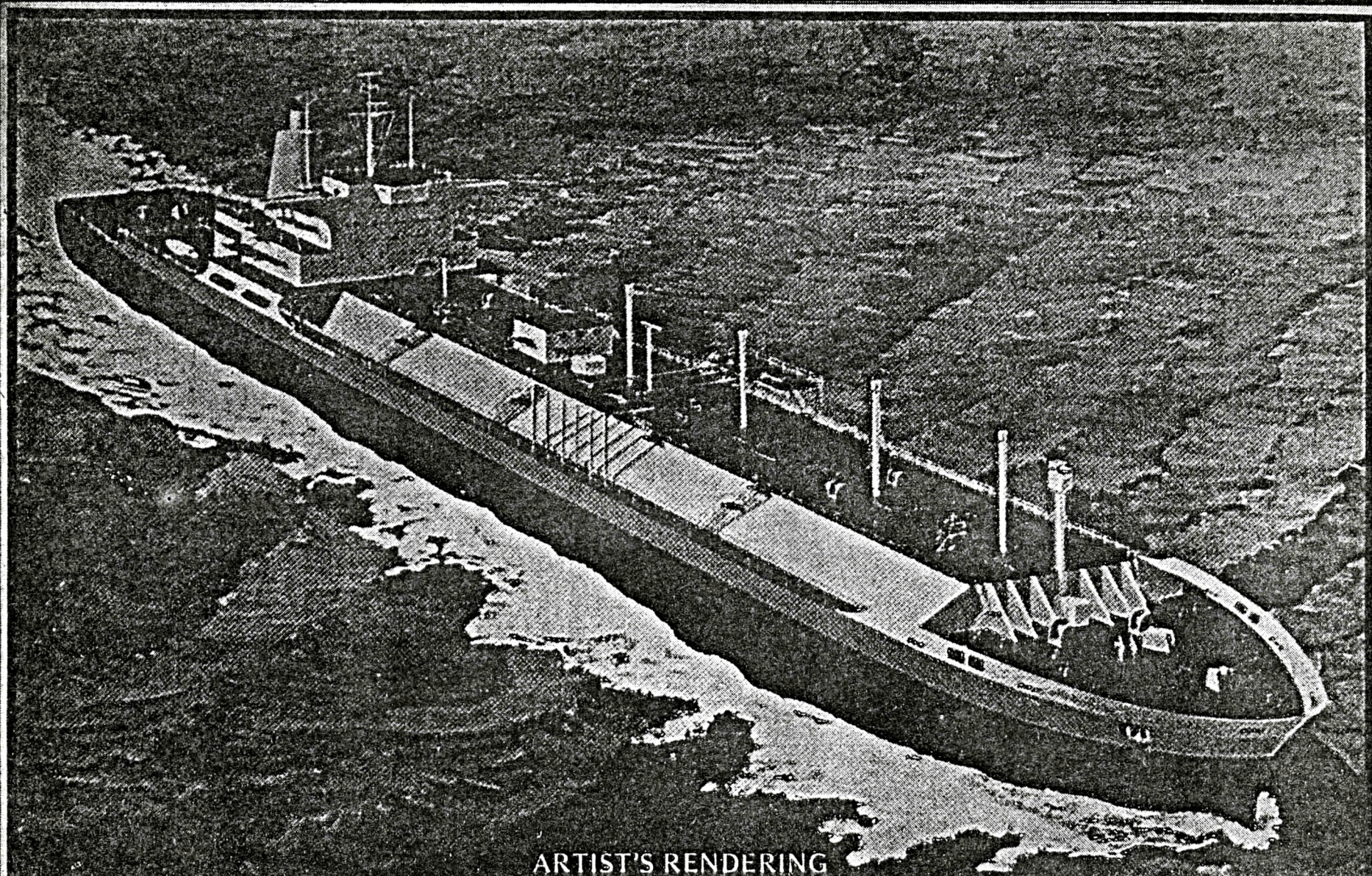
**OXNARD LNG DRAFT EIR:  
WORKSHOP SCHEDULE**



NOT TO SCALE

**PROCESS FLOW DIAGRAM  
PROPOSED OXNARD  
LNG FACILITIES**

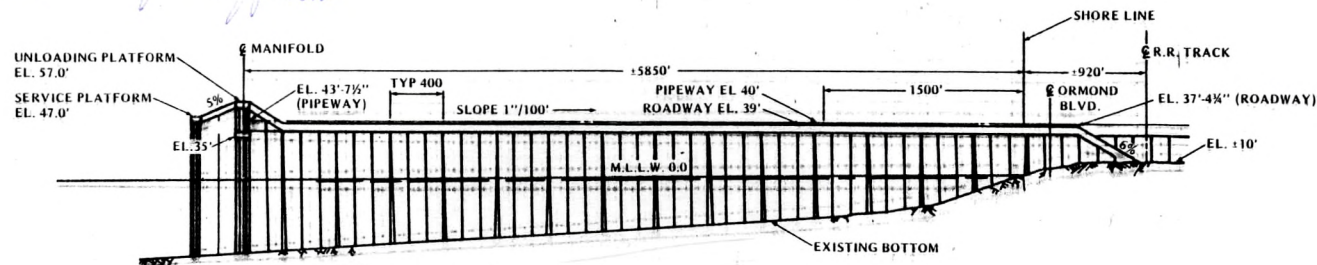




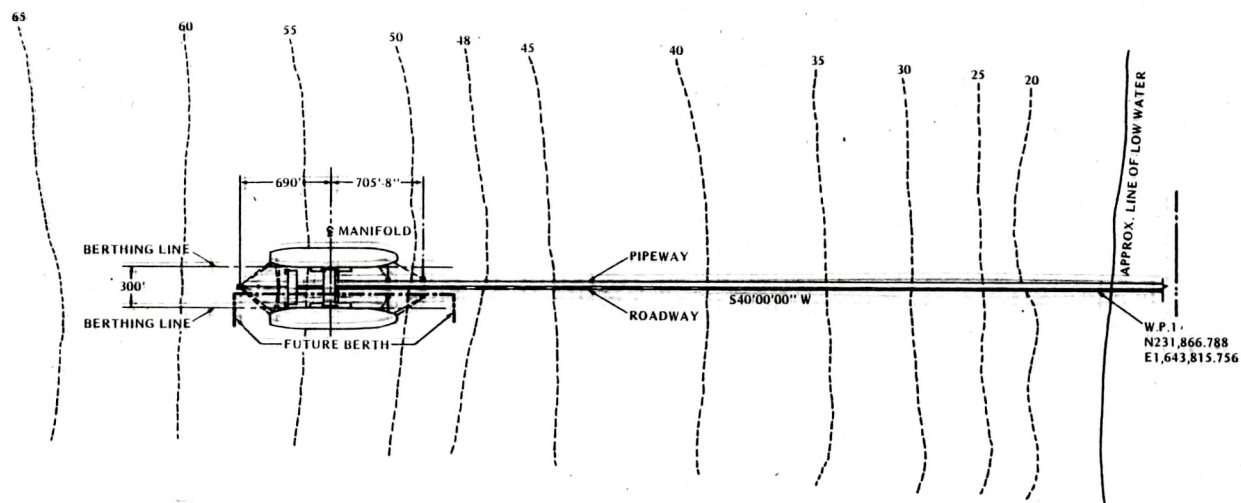
ARTIST'S RENDERING  
LIQUEFIED NATURAL GAS CARRIER  
(Similar to the "Ben Franklin" chartered for Indonesia-Oxnard Route)



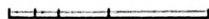
inf. 6500 feet/pipe



PROFILE



NORTH  
SCALE OF FEET



PLAN

NOTES:

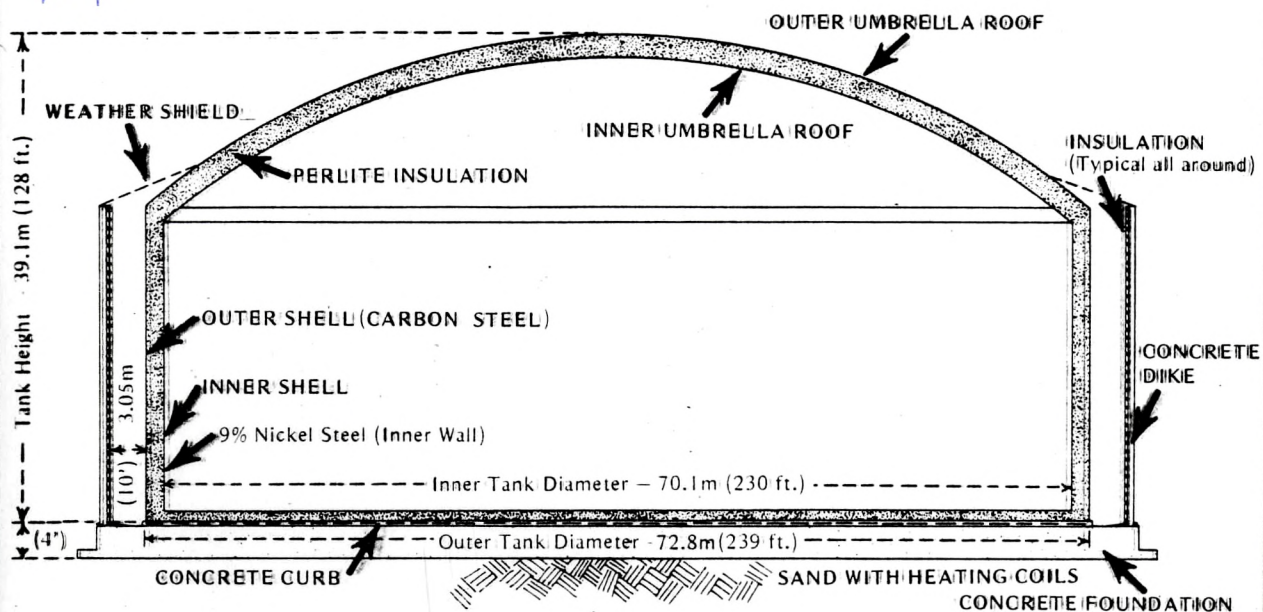
1. ALL OFF-SHORE CONTOURS SHOWN IN FEET.
2. ALL ELEVATIONS REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS USED AS THE DATUM EL. 0.0'.
3. MARINE CONTOURS SHOWN INDICATE SEA BOTTOM OBTAINED FROM A BATHMETRIC SURVEY PERFORMED BY OCEANOGRAPHIC SERVICES, INC. OF SANTA BARBARA, CALIF. ORNIA - AUGUST 1974.

PLAN AND PROFILE OF  
MARINE TERMINAL  
AND TRANSFER SITE

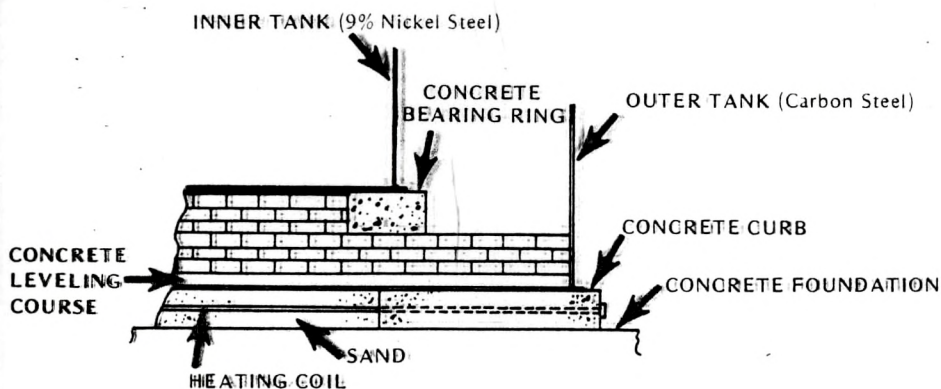
Source: Raymond Technical Facilities, Inc., Drawing No. 12877-S16-FS



*Is this the same as the  
N.Y. State tanks?*



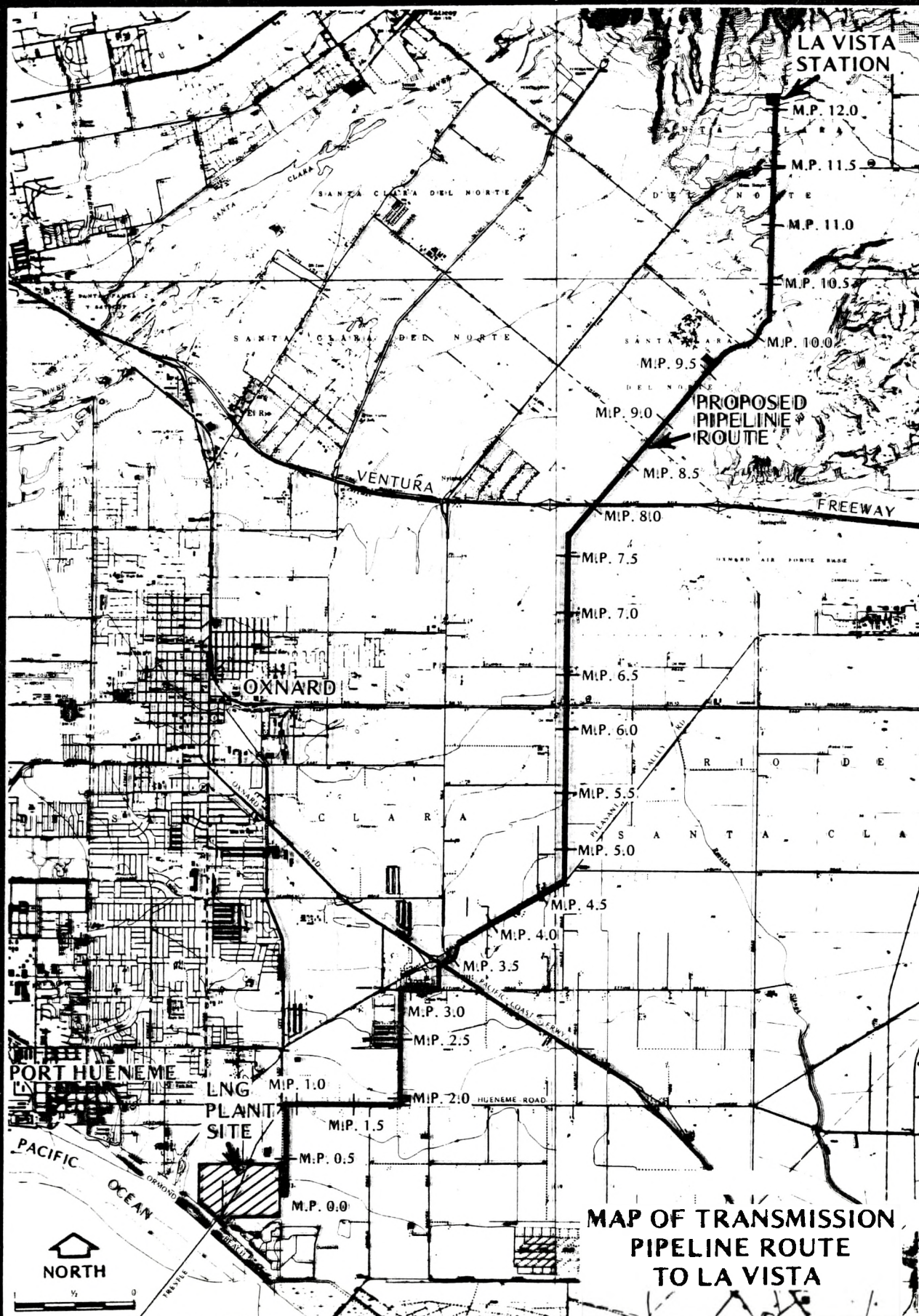
NOT TO SCALE



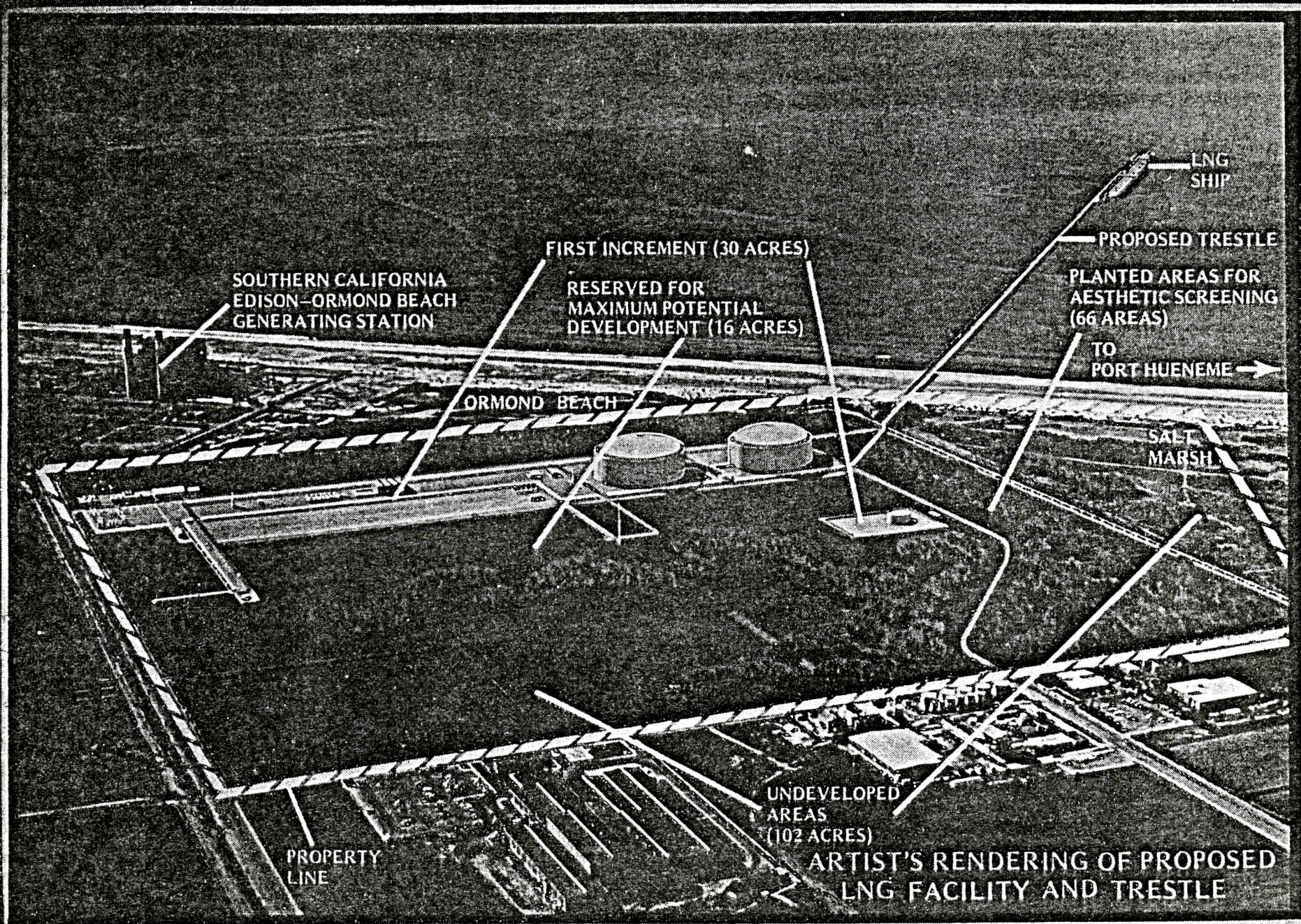
Source: Fluor Engineers and Contractors, Inc.

## LNG STORAGE TANKS - PROPOSED OXNARD LNG FACILITIES









SOUTHERN CALIFORNIA  
EDISON-ORMOND BEACH  
GENERATING STATION

FIRST INCREMENT (30 ACRES)

RESERVED FOR  
MAXIMUM POTENTIAL  
DEVELOPMENT (16 ACRES)

ORMOND BEACH

LNG  
SHIP

PROPOSED TRESTLE

PLANTED AREAS FOR  
AESTHETIC SCREENING  
(66 AREAS)

TO  
PORT HUENEME →

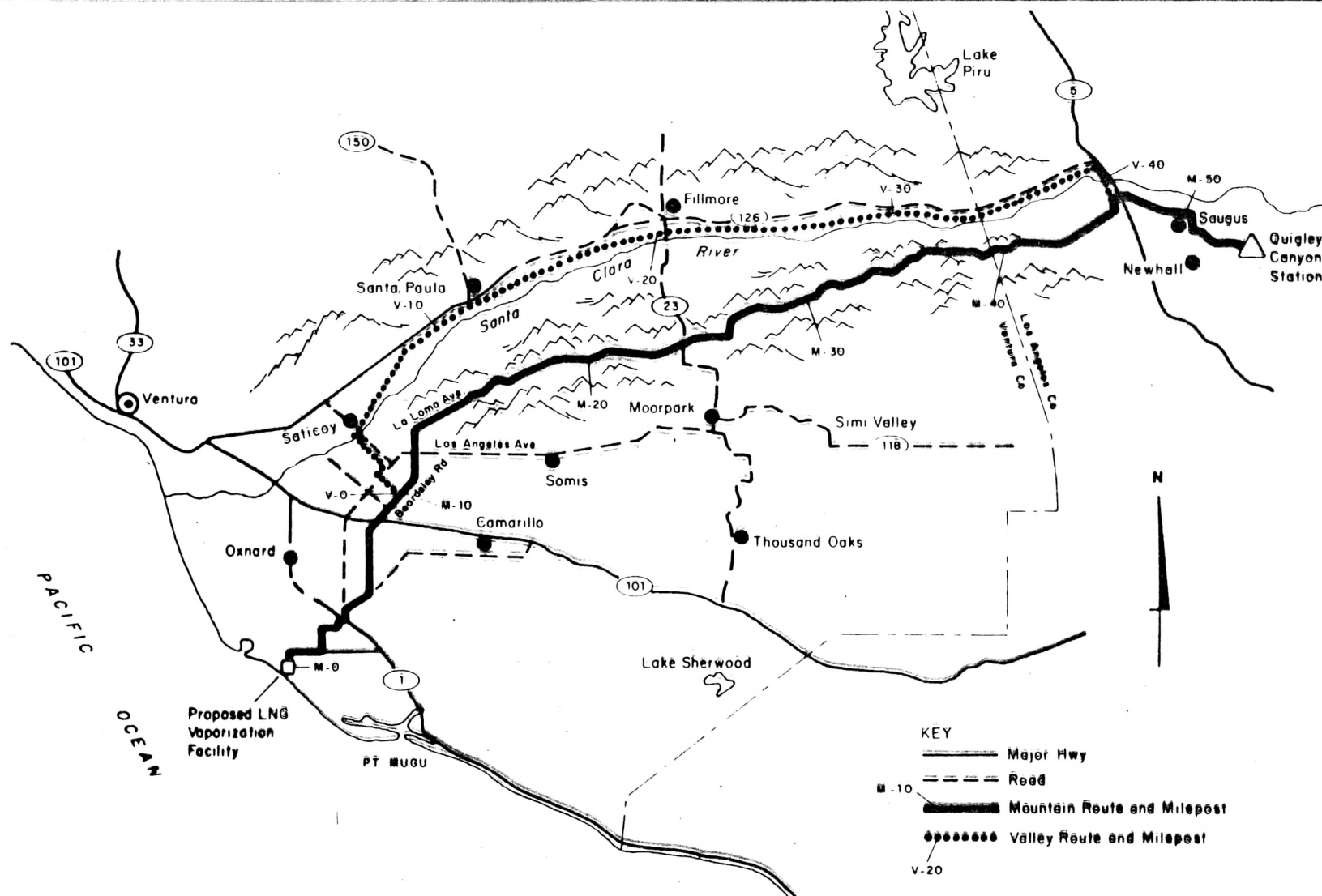
SALT  
MARSH

PROPERTY  
LINE

UNDEVELOPED  
AREAS  
(102 ACRES)

ARTIST'S RENDERING OF PROPOSED  
LNG FACILITY AND TRESTLE



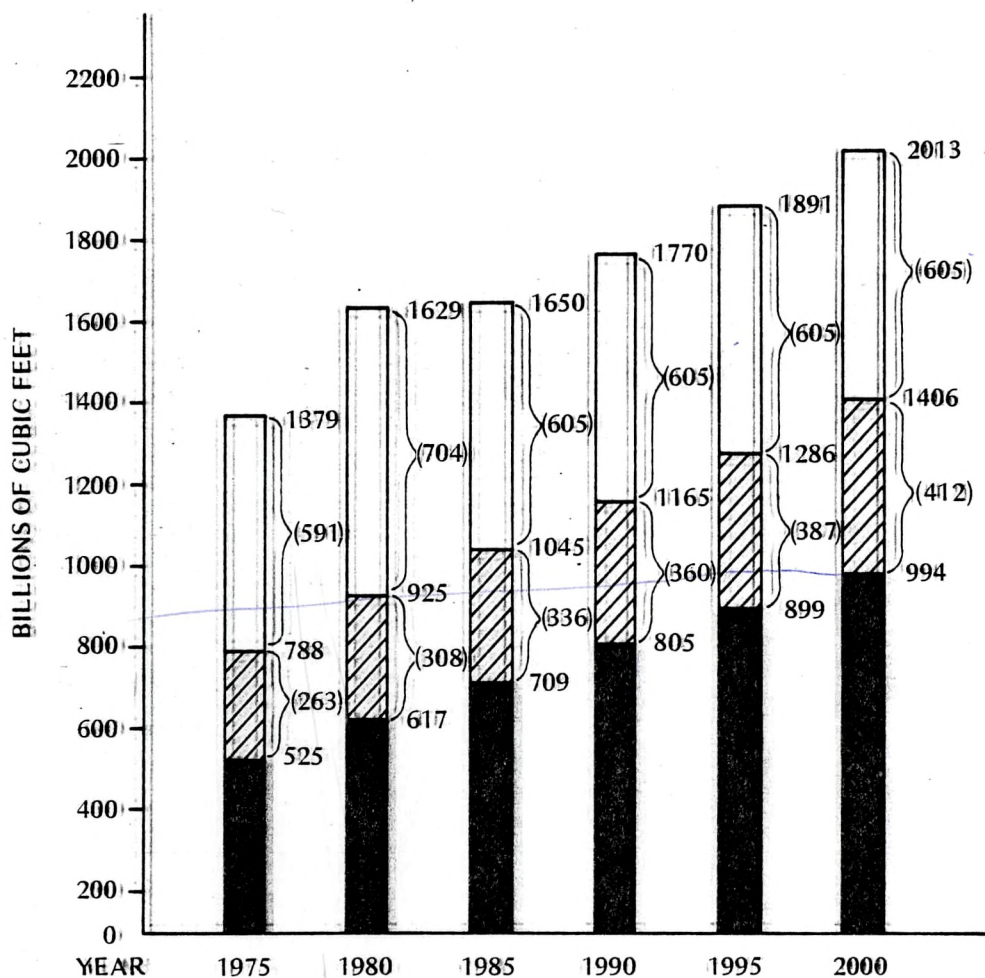


Source: Federal Power Commission, Draft EIS,  
Oxnard LNG Terminal, May 1976.

### MAXIMUM POTENTIAL DEVELOPMENT PIPELINE— "MOUNTAIN ROUTE" AND ALTERNATIVE "VALLEY ROUTE"







**LEGEND:**

- Firm Customers
- Interruptible Customers  
(Excluding Utilities)
- Utilities

Source: California Gas Report, 1975 for years 1975-1984; extrapolations by the Southern California Gas Company for 1975-1993; estimates by EIR authors for 1994-2000.

**PROJECTED GAS DEMAND  
IN THE PACIFIC LIGHTING  
SERVICE AREA, 1975-2000**



1. deregulation  
2. conservation

any other  
Sources of info

cost of  
LNG compared  
with other

What was it in 1969

increase

Texas

15%  
reduce  
by

# PROJECTED SUPPLY (Billions of Cubic Feet)

SUPPLY SOURCE	1975	1981	1990	2000
California Sources	36.4	34.6	N.A.	N.A.
Interstate Pipelines	777.4	418.3	N.A.	N.A.
Federal Offshore	4.3	7.6	N.A.	N.A.
EXISTING SOURCES TOTAL	818.1	460.5	286.0	268.0
L.A. Harbor (LNG)	—	146.0	146.0	146.4
Oxnard (LNG)	—	190.3	190.3	190.8
Point Conception (LNG)	—	164.2	164.2	164.6
New Mexico (SNG)	—	68.4	68.4	68.6
TOTAL	818.1	1029.4	854.9	838.4

15.5  
5.3

72.  
?

Indonesian encounter  
1970

Source: California Gas Report, 1975 for years 1975 and 1981; extrapolations by the Southern California Gas Company for 1990; estimates by EIR authors for 2000.

no analysis in.

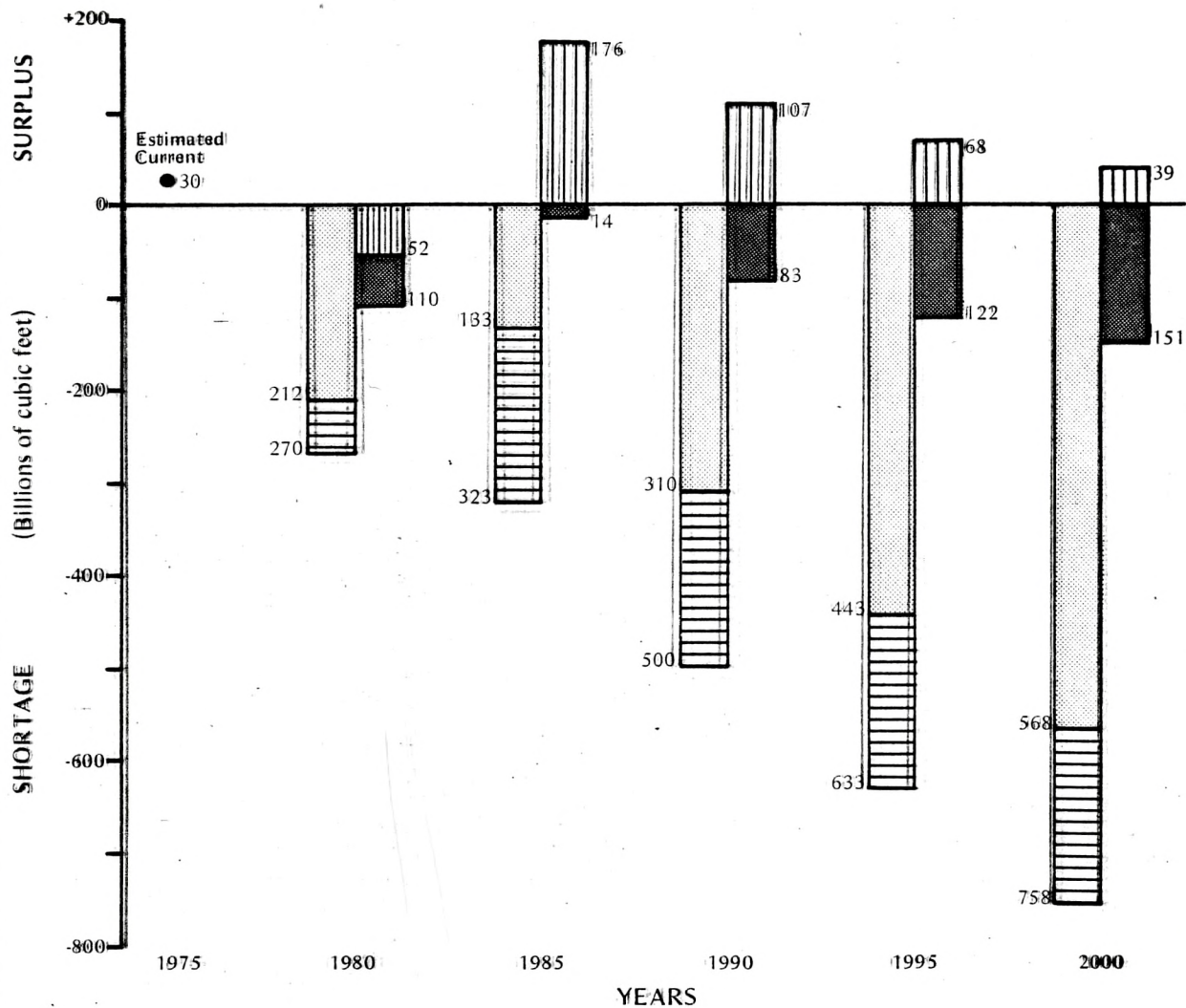
other sources of information?

LNG

m

PROJECTED GAS SUPPLY IN  
THE PACIFIC LIGHTING  
SERVICE AREA, 1975-2000





- BASE CASE<sup>2</sup> WITH OXNARD FACILITY
- BASE CASE<sup>2</sup> WITHOUT OXNARD FACILITY
- ADJUSTED<sup>3</sup> CASE WITH OXNARD FACILITY
- ADJUSTED<sup>3</sup> CASE WITHOUT OXNARD FACILITY

1. Excludes wholesale gas sales to utilities.
2. Includes supplies from existing sources, plus proposed Los Angeles and Point Conception LNG projects and New Mexico SNG project.
3. Includes supplies from existing and proposed sources, plus adjusted supply and demand to reflect price, conservation, and substitution effects.

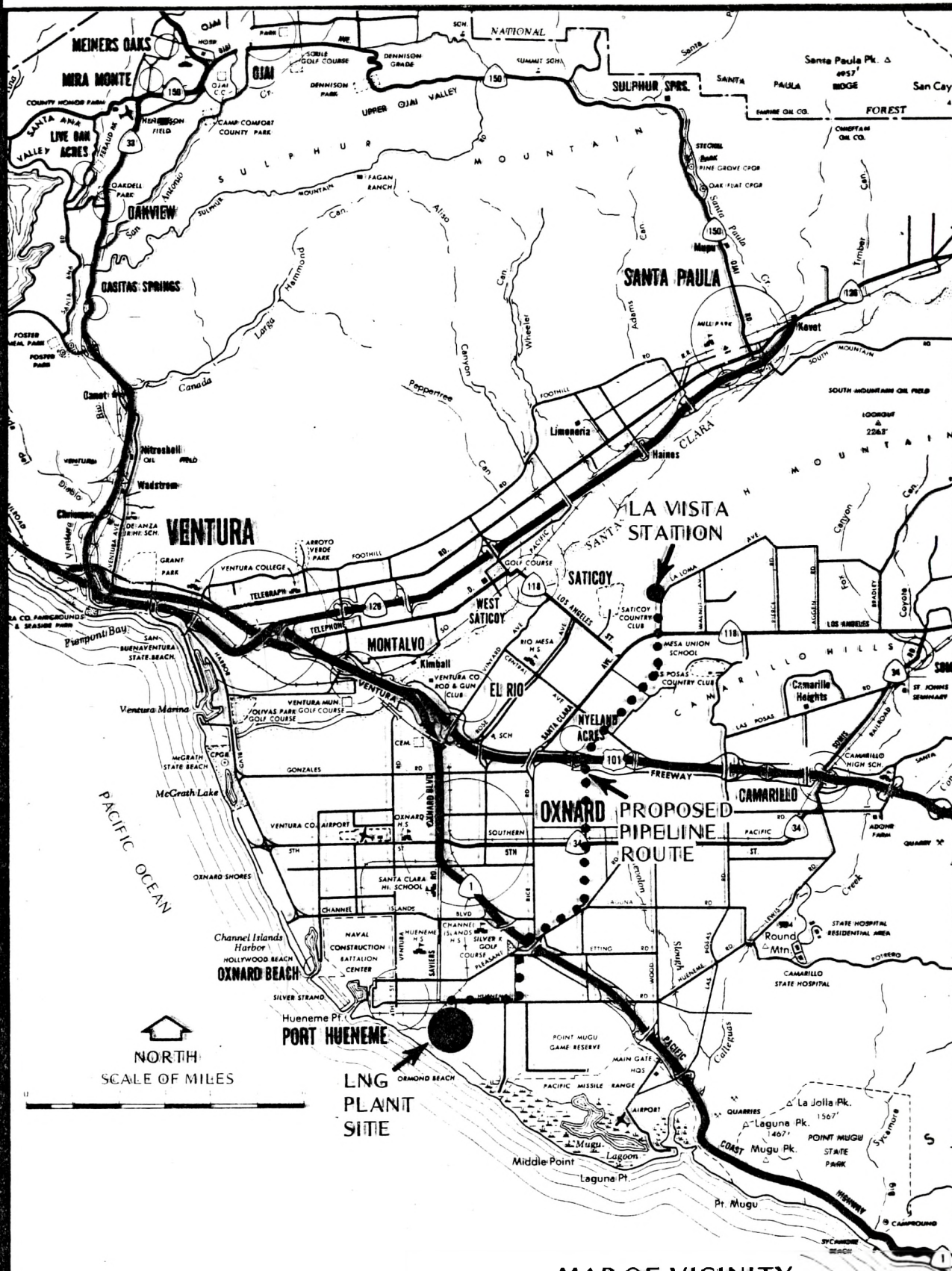
### PROJECTED GAS SHORTAGE/SURPLUS WITH AND WITHOUT THE PROPOSED OXNARD LNG FACILITIES

(Firm and Interruptible<sup>1</sup> Customers Only)

*No analysis with  
PB+E joining this  
plan.*

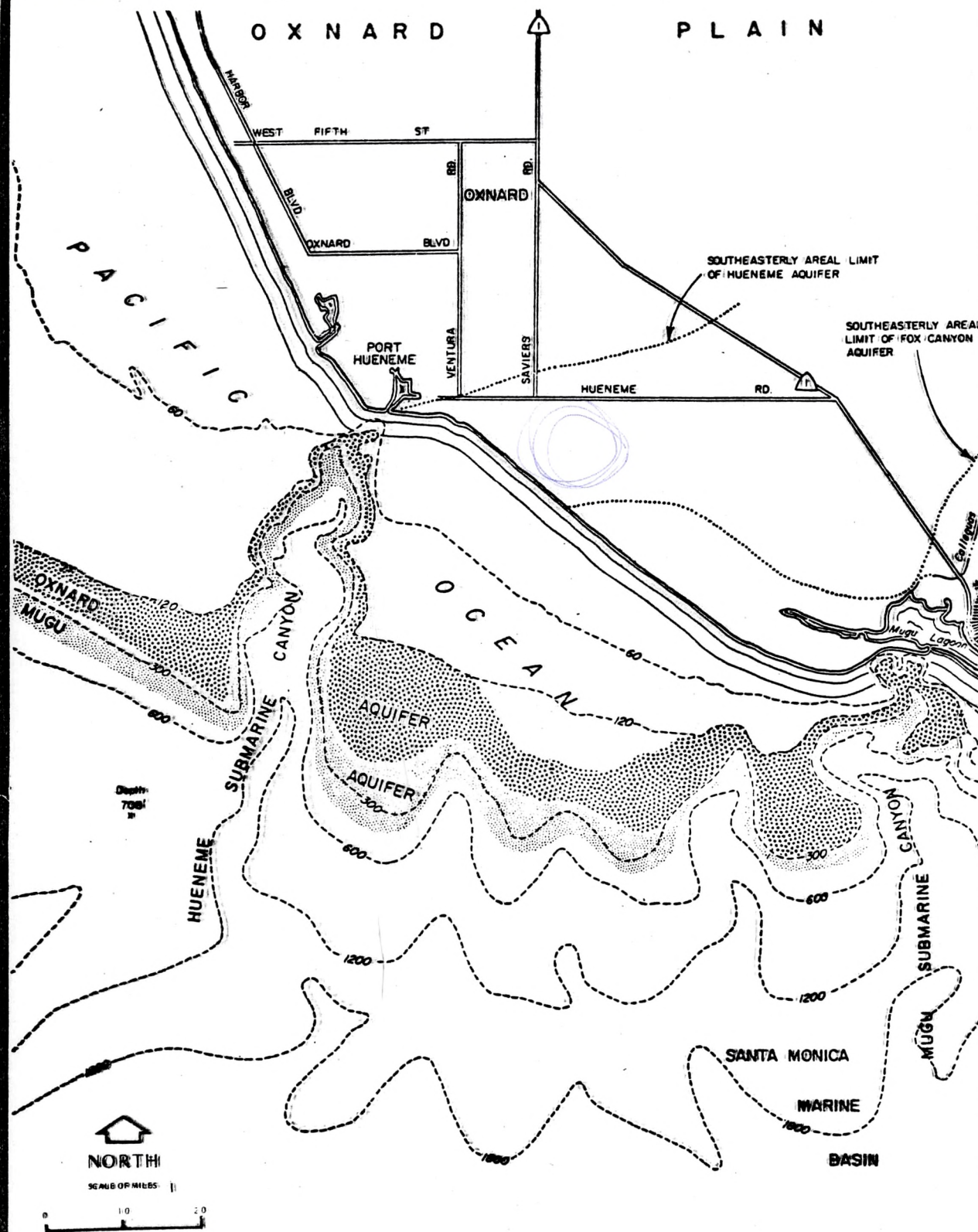


Mount hinged overlay foils on this side.  
Mount basic foils on back.



MAP OF VICINITY  
COMMUNITIES AND TRANSPORTATION  
NETWORK

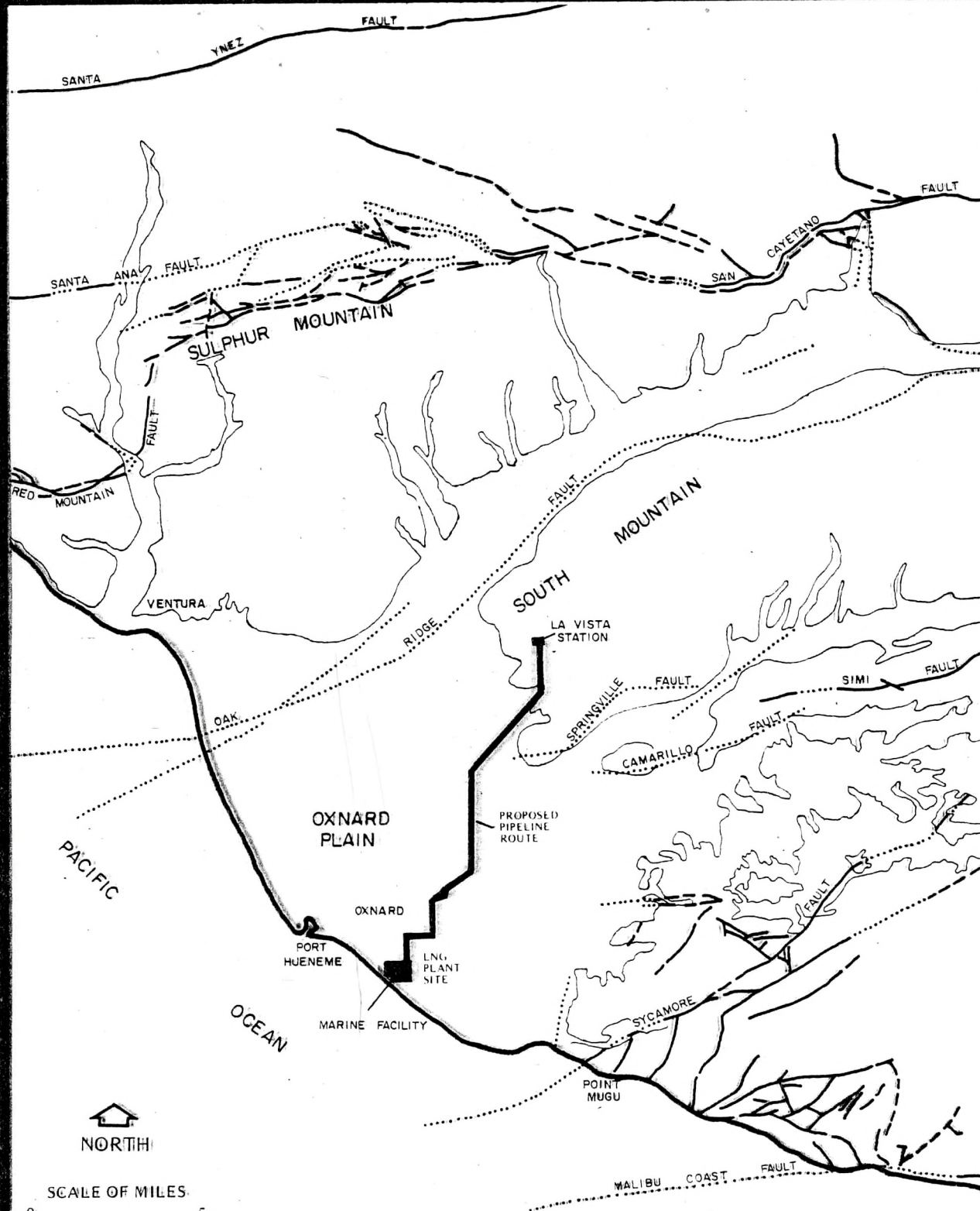




Reference: California Department of Water Resources, 1965.

## UNDERWATER TOPOGRAPHY





#### LEGEND

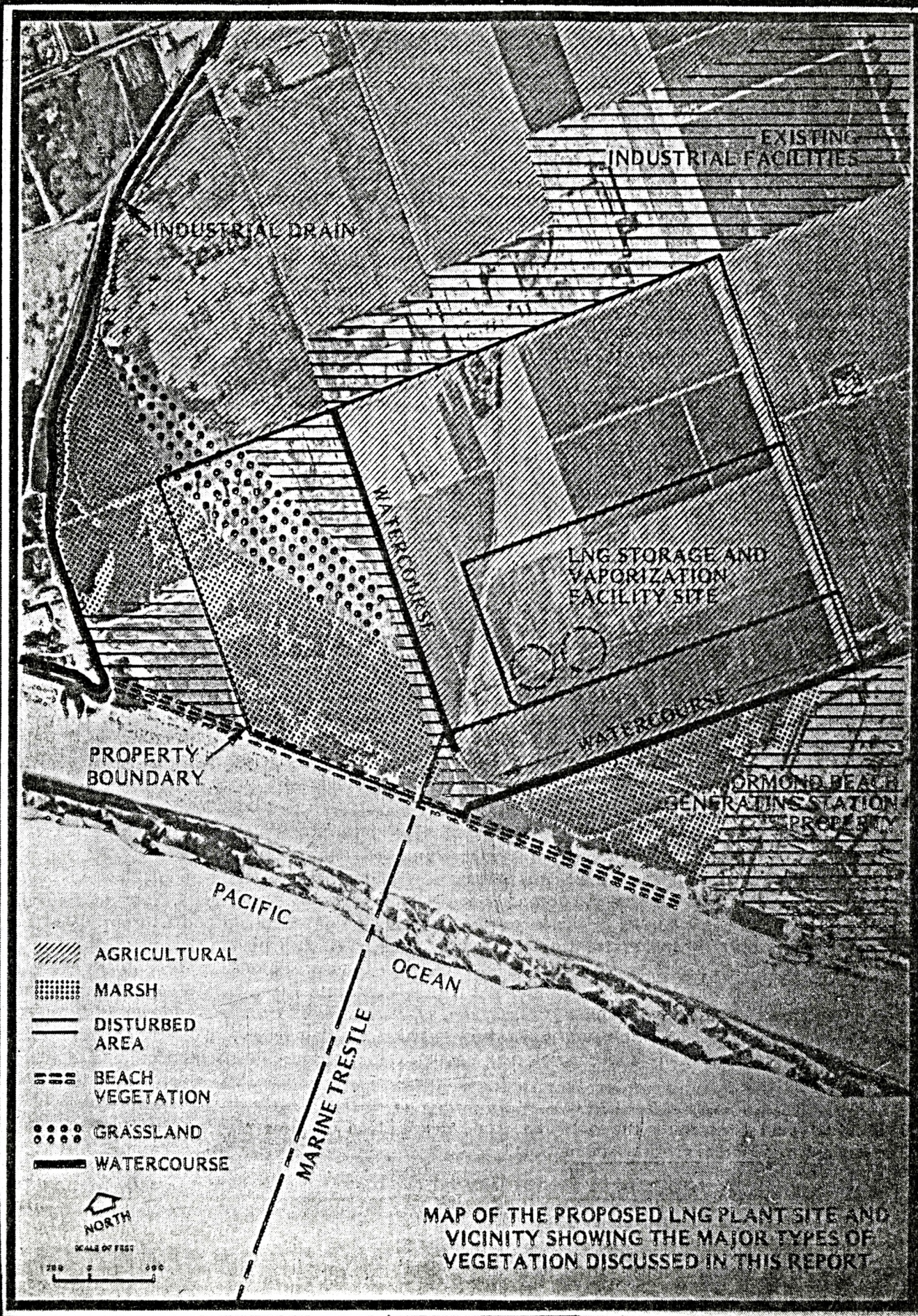
----- FAULT (Dashed Where Approximately located,  
Dotted Where Concealed)

Reference: Jennings and Stand, 1969

## ACTIVE AND POTENTIALLY ACTIVE FAULTS IN THE LOCAL AREA



stickel back



NOTES



brown pelican  
double crested cormorant  
california gull  
forster's tern

willet  
marbled godwit  
long billed curlew  
spotted sandpiper  
least sandpiper  
sanderling

least tern  
snowy plover

*Phrynosoma* horned lizard

*Lepus* hare

*Reithrodontomys* harvest mouse

*Sylvilagus* rabbit

belding's savannah sparrow  
eared grebe  
red-breasted merganser  
cinnamon teal  
gadwall  
pintail

barn owl  
sparrow hawk  
red-tailed hawk  
barn swallow

killdeer  
common snipe  
semipalmated plover  
black-necked stilt

scrub jay  
common crow  
mockingbird  
american robin  
house sparrow  
brown towhee

horned lark  
mountain plover  
mourning dove  
water pipit  
starling  
brewer's blackbird  
lesser goldfinch

*Canis* dog

*Felis* cat *Mus* house mouse

*Sceloporus* fence lizard

*Thomomys* gopher

*Gerrhonotus* alligator lizard

*Hyla* tree frog

*Rana* frog

*Gambusia* mosquitofish

*Gasterosteus* stickleback

*Carassius* goldfish

*Beta* beet

*Apium* celery

*Franseria* silver beach weed

*Baccharis*

*Cressa* alkali weed

*Suaeda* sea blite

*Distichlis* saltgrass

*Distichlis* saltgrass

*Spergularia* sand spurrey

*Bromus* chess

*Hordeum*

*Rumex* dock

*Chenopodium*

*Atriplex* saltbush

*Xanthum* cocklebur

*Nasturtium* watercress

*Oenothera* beach primrose

*Cakile* sea rocket

*Convolvulus* morning glory

*Atriplex* saltbush

*Heliotropium* heliotrope

*Salicornia* pickleweed

*Spergularia* sand spurrey

*Pharis* canary grass

*Sonchus* thistle

*Melilotus* sweetclover

*Typha* cattail

*Linum*

*Cotula* brass buttons

*Cakile* sea rocket

*Convolvulus* morning glory

*Frankenia*

*Cuscuta* dodder

*Heliotropium* heliotrope

*Salicornia* pickleweed

*Spergularia* sand spurrey

*Pharis* canary grass

*Sonchus* thistle

*Melilotus* sweetclover

*Typha* cattail

*Linum*

*Cotula* brass buttons

*Haplopappus*

*Brassica* mustard

*Mesembrianthemum* ice plant

*Polygonum*

*Gnaphalium* everlasting

OCEAN

BEACH

COASTAL STRAND

MARSH

GRASSLAND

DISTURBED AREAS

WATERCOURSE

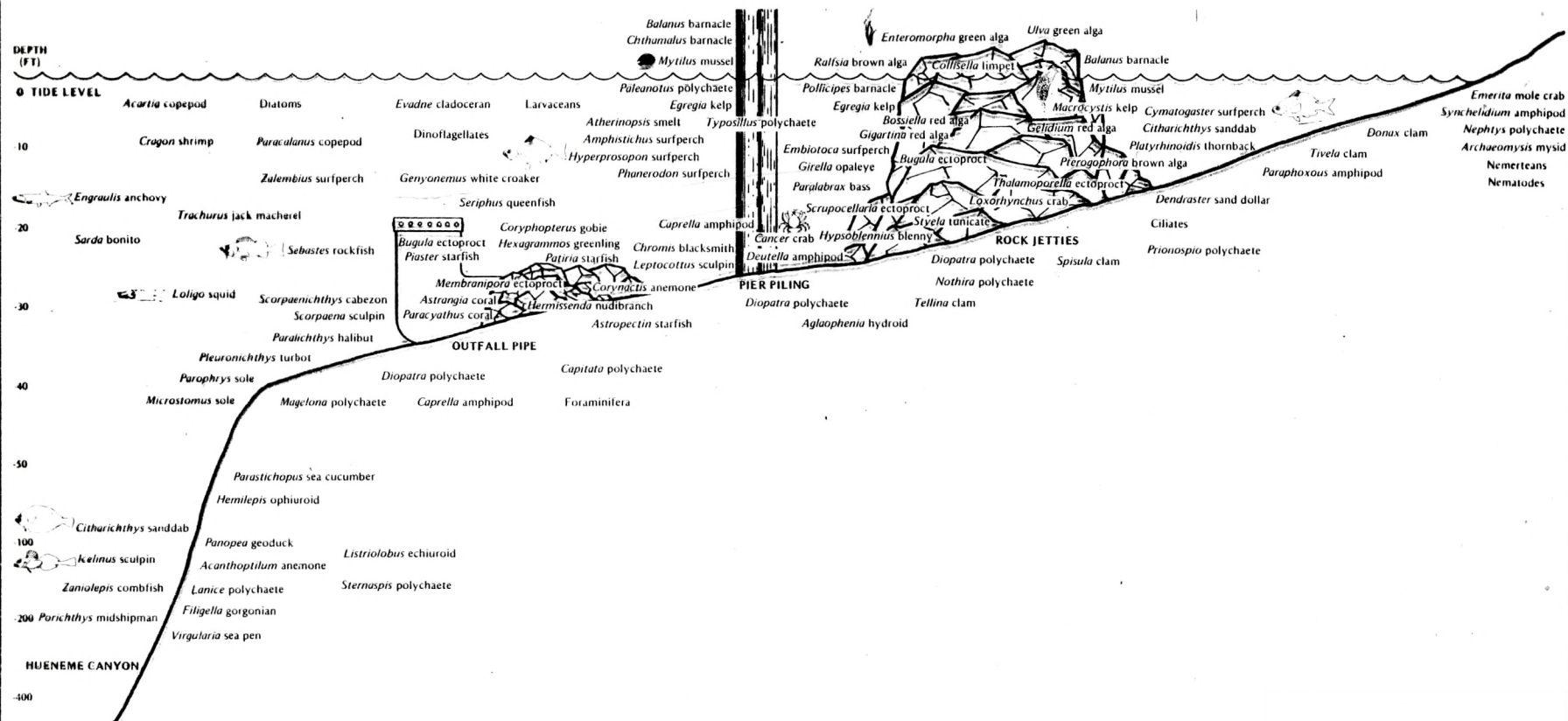
AGRICULTURAL LAND

Source: Allan Hancock Foundation, University of Southern California

Not to scale For illustrative purposes only

COMPOSITE OF TERRESTRIAL  
HABITATS IN THE VICINITY  
OF LNG PLANT SITE





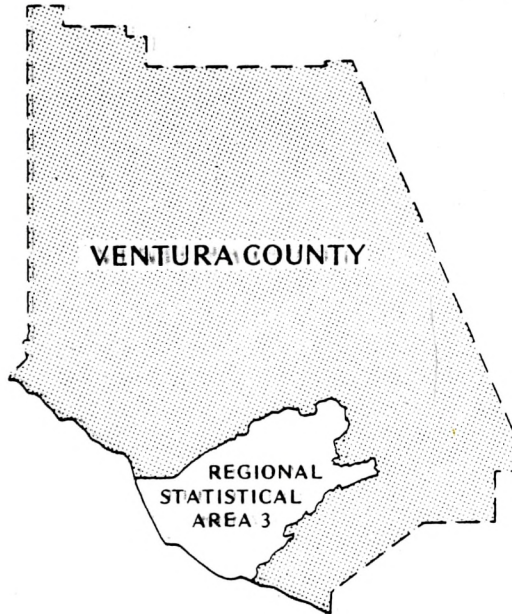
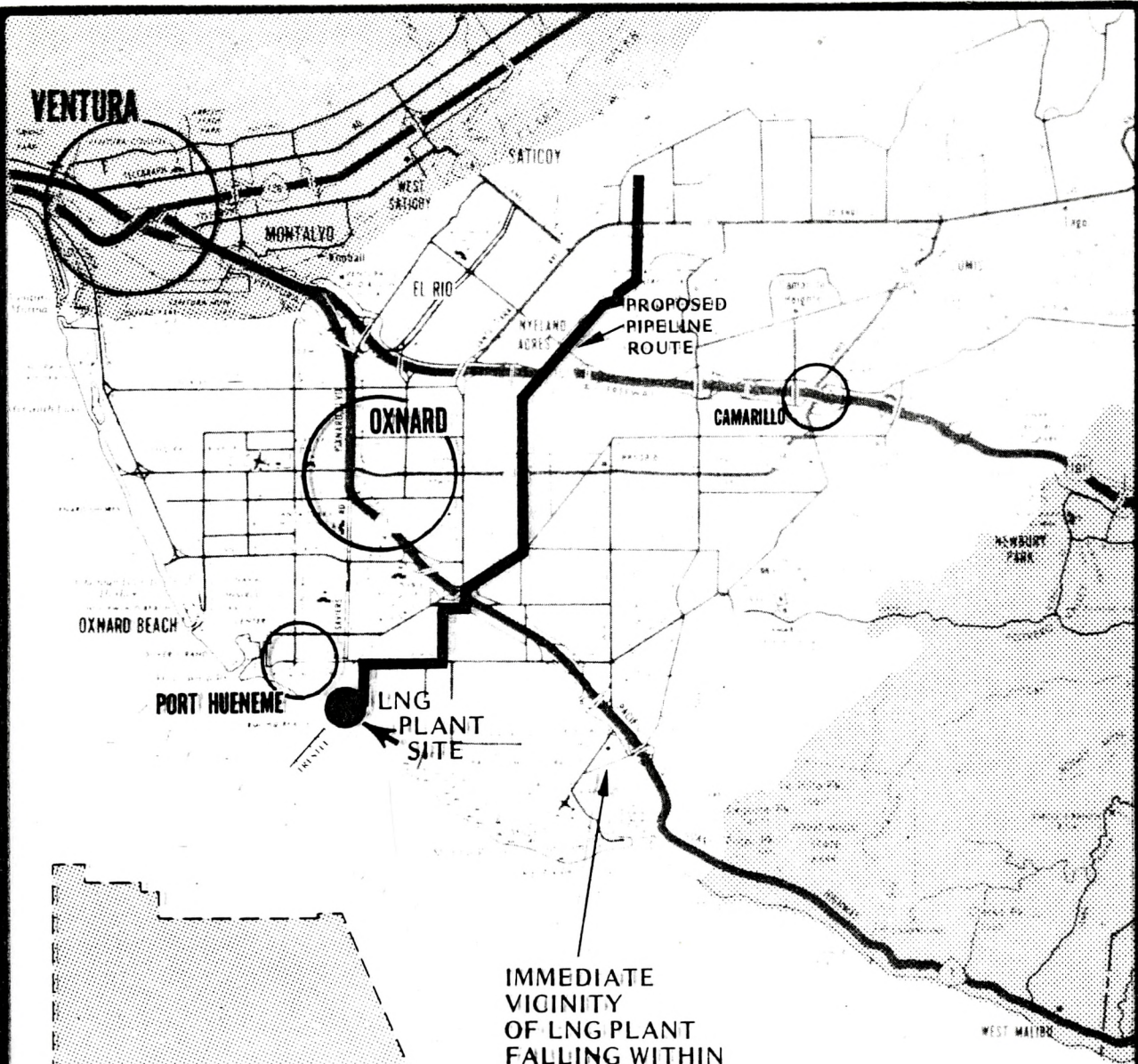
Source: Allan Hancock Foundation, University of Southern California

Not to scale -- For illustrative purposes only

COMPOSITE OF  
MARINE HABITATS  
OFF ORMOND BEACH

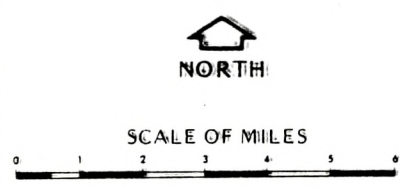






IMMEDIATE VICINITY OF LNG PLANT FALLING WITHIN RSA 3

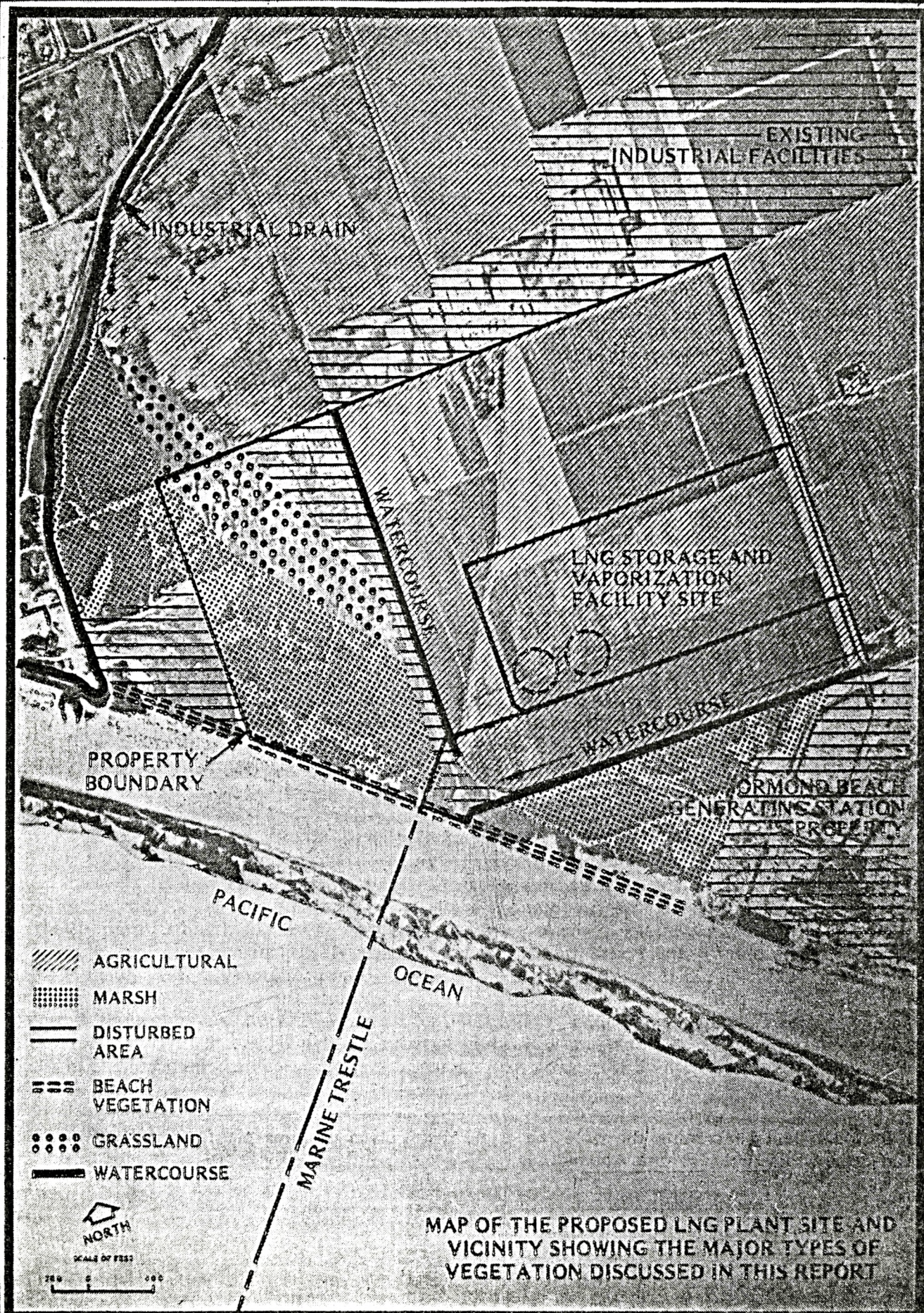
	Population 1975 Census	Population 1970 Census	Numerical Change	Percent Change
Oxnard	85,104	71,225	13,879	19.48
Camarillo	24,787	19,219	5,568	28.97
Port Hueneme	17,767	14,295	3,472	24.28
RSA 3	155,400	136,540	18,860	13.81
Ventura County	432,407	378,497	53,940	14.24



# VENTURA COUNTY EMPHASIZING REGIONAL STATISTICAL AREA THREE

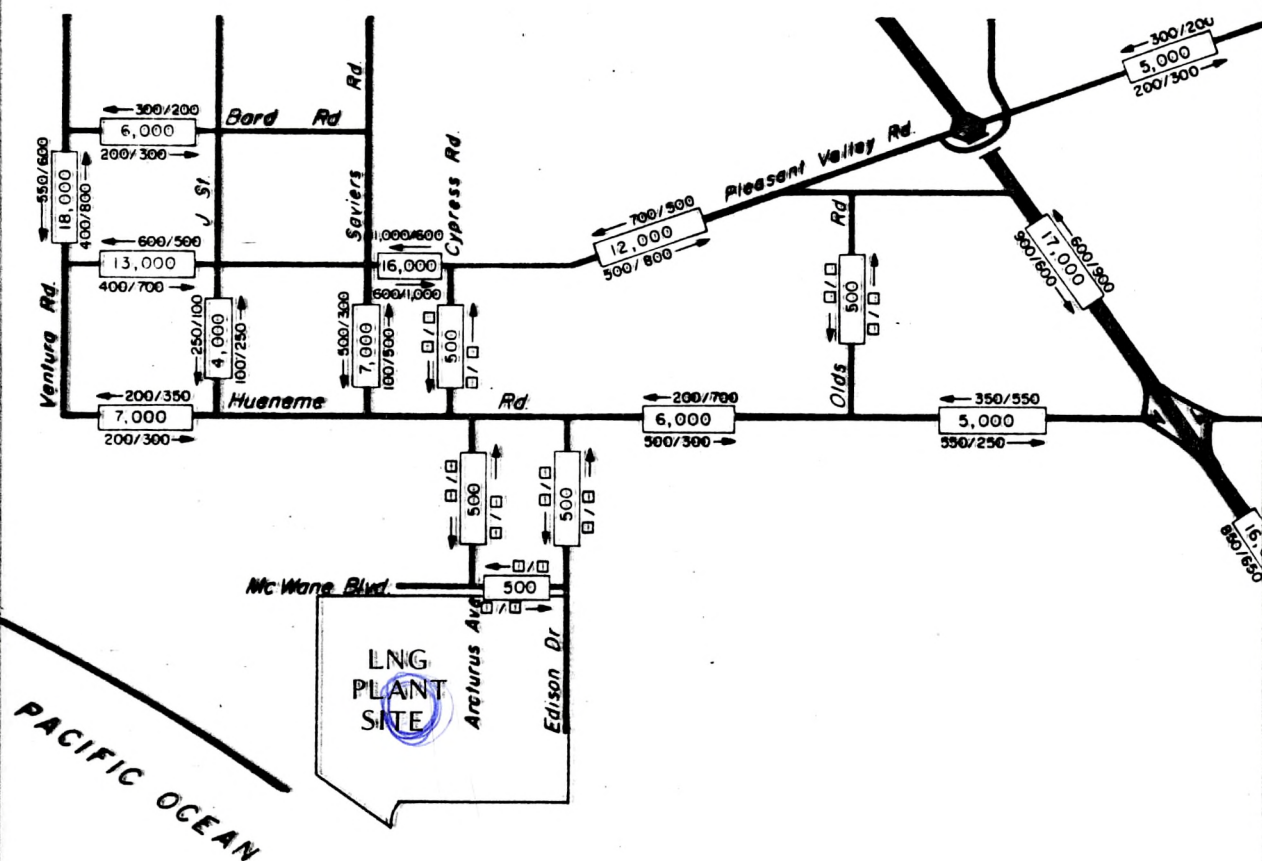
DESIGNED BY: SECURITY PRINTING NATIONAL BANK  
REVISED: 1977





MAP OF THE PROPOSED LNG PLANT SITE AND VICINITY SHOWING THE MAJOR TYPES OF VEGETATION DISCUSSED IN THIS REPORT





LEGEND:

0,000

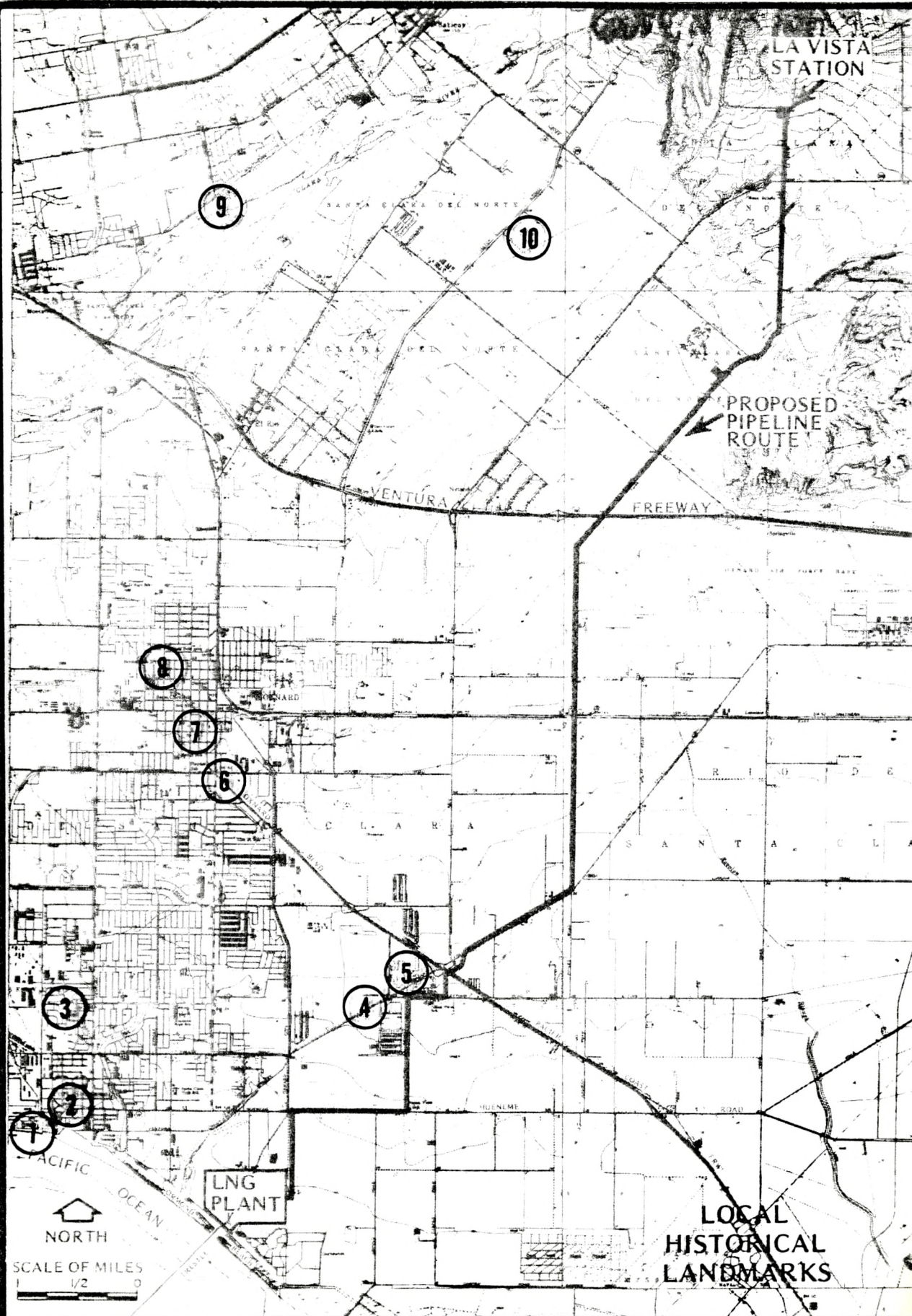
AVERAGE DAILY TRAFFIC

→ 000/000 ← AM/PM PEAK TRAFFIC

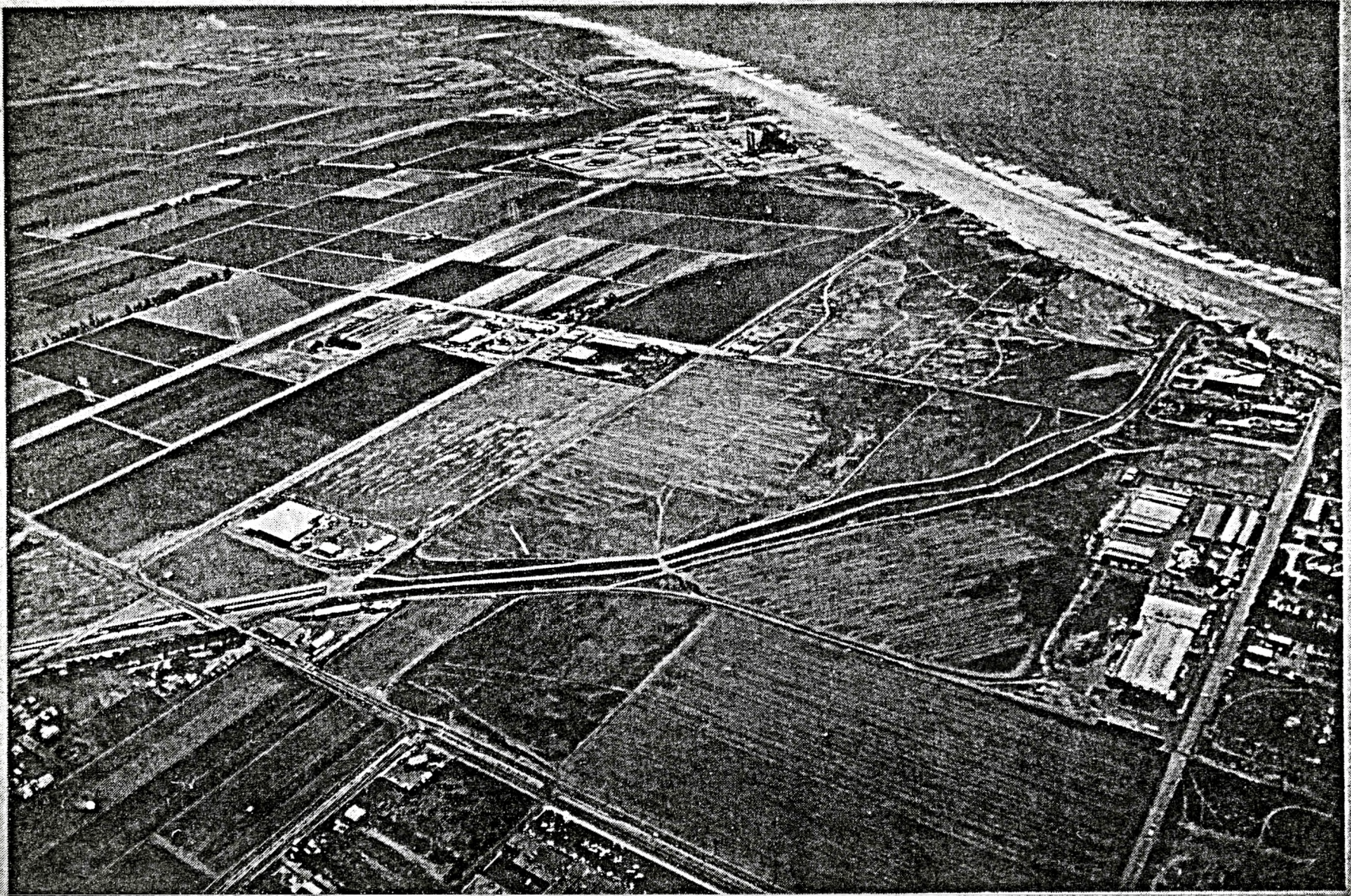
□ NEGLIGIBLE

DIRECTIONAL PEAK HOUR AND  
DAILY TRAFFIC, 1975









AERIAL PHOTOGRAPH OF ORMOND BEACH AREA