

# ORANGE COUNTY ROAD DEPT.

STATE OF CALIFORNIA

PLANS FOR CONSTRUCTION OF

## DEL OBISPO STREET BRIDGE

### TR-2

### OVER TRABUCO CREEK

#### INDEX OF SHEETS

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| 4.       | EAST ABUTMENT                  |
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| 12.      | TYPICAL FENCE AND GATE DETAILS |
| 13.      | EAST LEVEE ACCESS RAMP DETAILS |

#### ORANGE COUNTY FLOOD CONTROL DISTRICT

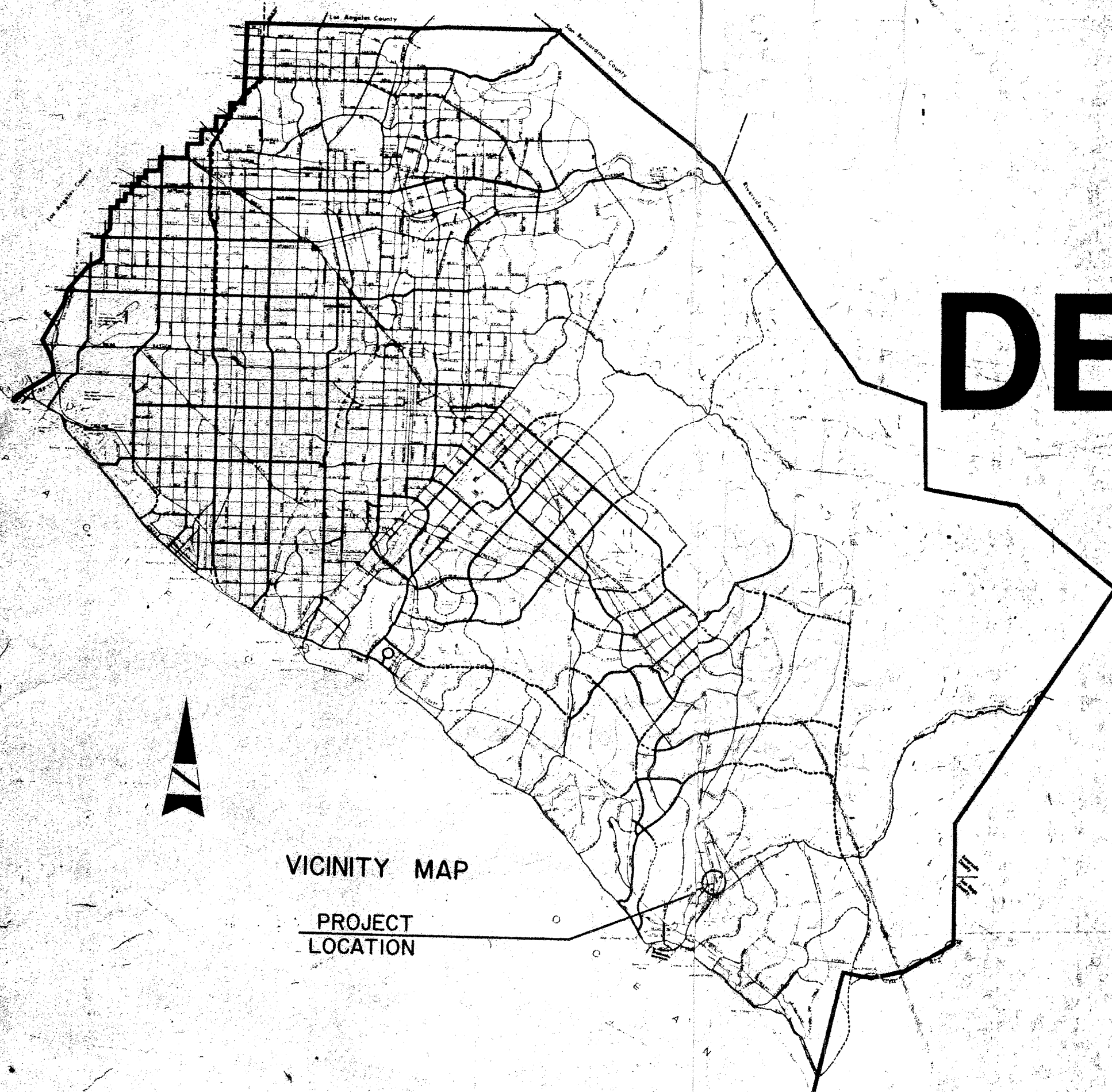
All installations and work affecting flood control district facilities shall conform with district's standard specifications and with the provisions of the construction permit granted by district. Contractor shall maintain a copy of said permit and stamped plans on the job site. Use of district property and conformance with the above shall be subject to inspection and approval by district's duly assigned inspector.

DISTRICT INSPECTOR SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF ANY WORK IN ACCORDANCE WITH PERMIT PROVISIONS.

APPROVED: *W.D. Murphy*  
DIRECTOR OF PUBLIC WORKS, CITY OF SAN JUAN CAPISTRANO

PLANS PREPARED BY:  
**vtm** CONSOLIDATED, INC.  
ENGINEERS ARCHITECTS PLANNERS  
2301 CAMPUS DRIVE (714) 833-2450  
IRVINE, CALIFORNIA 92614

APPROVED: *[Signature]*  
ROAD COMMISSIONER R.C.E. 697R  
D/P.M.



VICINITY MAP

PROJECT  
LOCATION

#### BENCH MARK:

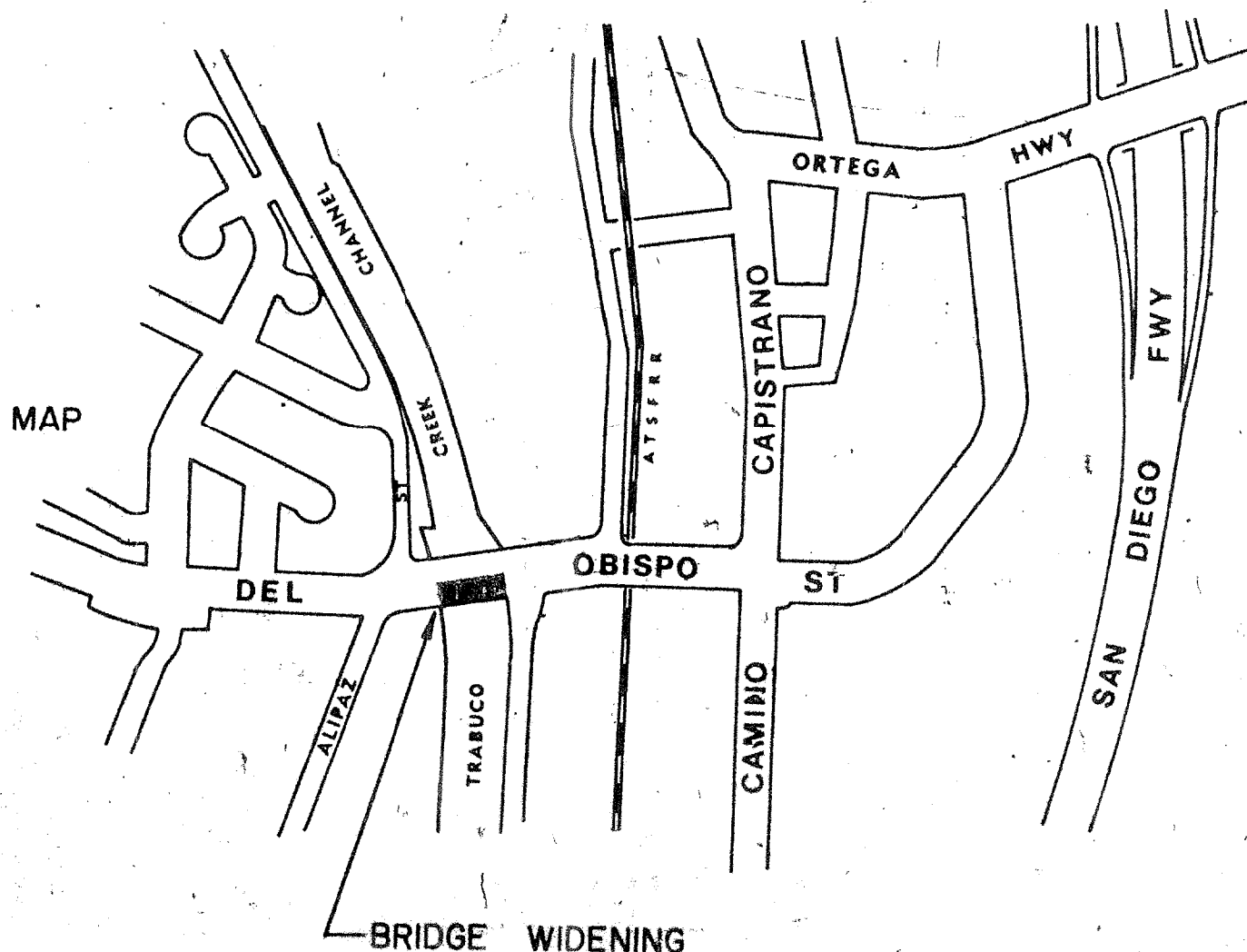
103 SB (USGS)

STD. USGS BRONZE CAP STAMPED "103 SB" AT THE A.T. & S.F. RAILWAY STATION AT SAN JUAN CAPISTRANO, 16.9' S OF THE SW CORNER OF THE SW BRICK PILLAR IN THE NW CORNER OF A SMALL PARK, ENCLOSED BY A STEEL PIPE FENCE, WITH ORNAMENTAL BRICK POSTS, 17.6' E OF THE E RAIL OF THE MAIN TRACK, 2.9' E OF THE W FENCE, 1.8' S OF THE N FENCE, ABOUT 1-1/4' LOWER THAN THE TRACK, AND RIVETED ON THE TOP OF A 3-1/2" IRON PIPE.

1970 ADJ. ELEV. 103.044

| COUNTY LINE            | CONVENTIONAL SIGNS |
|------------------------|--------------------|
| CITY LIMITS            | TREE STUMPS        |
| R/W LINE               | FRUIT TREES        |
| BASE OR SURVEY LINE    | EUCALYPTUS TREE    |
| CONSTRUCTION           | EVERGREEN TREE     |
| TRAVELED WAY           | PALM TREE          |
| RAILROAD TRACKS        | POWER POLE         |
| CULVERTS               | TELEPHONE POLE     |
| DROP INLET             | GUY POLE & ANCHOR  |
| WOOD FENCE             | MANHOLE            |
| WIRE FENCE             | FIRE HYDRANT       |
| CHAIN LINK FENCE       | STANDPIPE          |
| CORRUGATED METAL FENCE | WEIR BOX           |
| CONCRETE WALL          | GAS & WATER METERS |
| WETLAND MARKERS        | WATER VALVE        |
| BANK OR RETAINING WALL | GUARD RAIL         |
| TOE SLOPE              | LEVEE              |
| TOE SLOPE              | MARSH              |
|                        | SIDE WALKS         |
|                        | UNFENCED PROPERTY  |

LOCATION MAP



|                                                                                             |                                                                                                                         |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| WATER SYSTEM                                                                                |                                                                                                                         |
| DOMESTIC <input checked="" type="checkbox"/>                                                | NON DOMESTIC <input type="checkbox"/>                                                                                   |
| DOCUMENT TYPE                                                                               |                                                                                                                         |
| CONST. <input checked="" type="checkbox"/>                                                  | FIELD RPT. <input type="checkbox"/> EASEMENT <input type="checkbox"/> OTHER <input type="checkbox"/>                    |
| DOCUMENT FINALIZATION DATE                                                                  |                                                                                                                         |
| PROJECT IDENTIFICATION NUMBER                                                               |                                                                                                                         |
| 5-28                                                                                        |                                                                                                                         |
| 5237                                                                                        |                                                                                                                         |
| MAP SCALE                                                                                   |                                                                                                                         |
| 1"=40' <input type="checkbox"/>                                                             | 1"=100' <input type="checkbox"/> OTHER <input type="checkbox"/>                                                         |
| OWNER                                                                                       |                                                                                                                         |
| CVWD <input type="checkbox"/>                                                               | CSC <input type="checkbox"/> MNWD <input type="checkbox"/> SMWD <input type="checkbox"/> MWDCC <input type="checkbox"/> |
| SCWD <input type="checkbox"/>                                                               | SRA <input type="checkbox"/> CBWD <input type="checkbox"/> OTHER <input type="checkbox"/>                               |
| CENTER LINE OF ST SAME AS CENTER LINE OF RIGHT OF WAY                                       |                                                                                                                         |
| YES <input type="checkbox"/> NO <input type="checkbox"/> PARTIALLY <input type="checkbox"/> |                                                                                                                         |
| NEEDS EASEMENT ADDED                                                                        |                                                                                                                         |
| YES <input type="checkbox"/> NO <input type="checkbox"/>                                    |                                                                                                                         |
| CONVERT PAGES                                                                               |                                                                                                                         |
| <input checked="" type="checkbox"/> DO NOT CONVERT THIS SET                                 |                                                                                                                         |
| PAGES FOR REFERENCE ONLY                                                                    |                                                                                                                         |
| COVER 1/2                                                                                   |                                                                                                                         |

## SPECIFICATIONS:

DESIGN:  
AASHTO DATED 1973 AND CALIFORNIA DIVISION OF HIGHWAYS BRIDGE PLANNING AND DESIGN MANUAL.

CONSTRUCTION:  
CALIFORNIA DIVISION OF HIGHWAYS STANDARD SPECIFICATION DATED JANUARY, 1973 AND THE SPECIAL PROVISIONS.

LIVE LOAD: HS20-44 AND ALTERNATIVE

ALLOWABLE DESIGN UNIT STRESS:

CONCRETE:  
28 DAY COMPRESSIVE STRENGTH  $f_c = 3,250$  PSI  
 $f_c = 1,200$  PSI DECK SLAB  
 $f_c = 1,300$  PSI ALL OTHER MEMBERS

REINFORCING STEEL:  
ASTM A615 GRADE 60  $f_y = 60$  KSI  
 $f_u = 24,000$  PSI TENSION AND COMPRESSION IN BARS  
 $f_u = 20,000$  PSI TENSION IN DECK SLAB, WEB REINFORCEMENT AND COMPRESSION IN PIER.

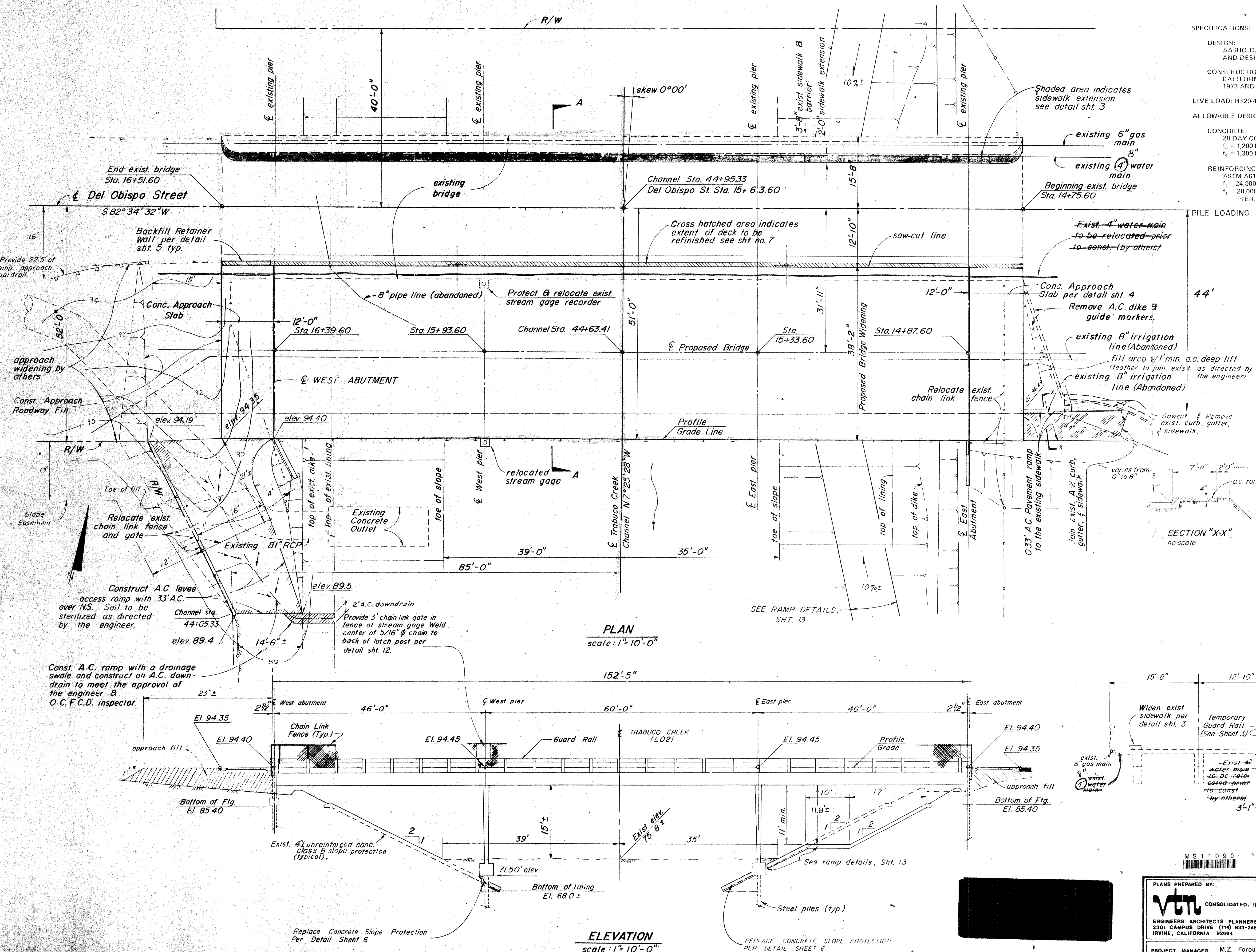
PILE LOADING: 45 Ton design bearing load

## APPROXIMATE BRIDGE QUANTITIES

|                                       |           |
|---------------------------------------|-----------|
| TEMP METAL BEAM RAILING               | 200 L.F.  |
| RELOCATE CHAIN LINK FENCE & GATE      | 68 L.F.   |
| RELOCATE STREAM GAGE RECORDER         | LS        |
| REMOVE CONCRETE                       | 65 CY     |
| BRIDGE REMOVAL (PORTIONS)             | LS        |
| CLEARING AND GRUBBING                 | LS        |
| STRUCTURE EXCAVATION (BRIDGE)         | 165 CY    |
| STRUCTURE EXCAVATION (CHANNEL LINING) | 850 CY    |
| STRUCTURE BACKFILL (BRIDGE)           | 95 CY     |
| ASPHALT CONCRETE                      | 55 TON    |
| PLACE ASPHALT CONCRETE (MISC. AREAS)  | 205 SY    |
| FURNISH STEEL PILING (H.P. 12x53)     | 1160 L.F. |
| DRIVE STEEL PILE (45 TON)             | 34 EA     |
| CLASS "A" CONCRETE (CHANNEL LINING)   | 120 CY    |
| CLASS "A" CONCRETE (STRUCTURE)        | 40 CY     |
| REFINISH BRIDGE DECK                  | 180 SF    |
| BAR REINFORCING STEEL (STRUCTURE)     | 4000 LBS  |
| CHAIN LINK FENCE                      | 158 L.F.  |
| METAL BEAM BRIDGE RAILING             | 158 L.F.  |

## FINAL BRIDGE QUANTITIES

|                                |              |
|--------------------------------|--------------|
| STRUCTURE CONCRETE (BRIDGE)    | 410 C.Y.     |
| BAR REINFORCING STEEL (BRIDGE) | 109,000 LBS. |



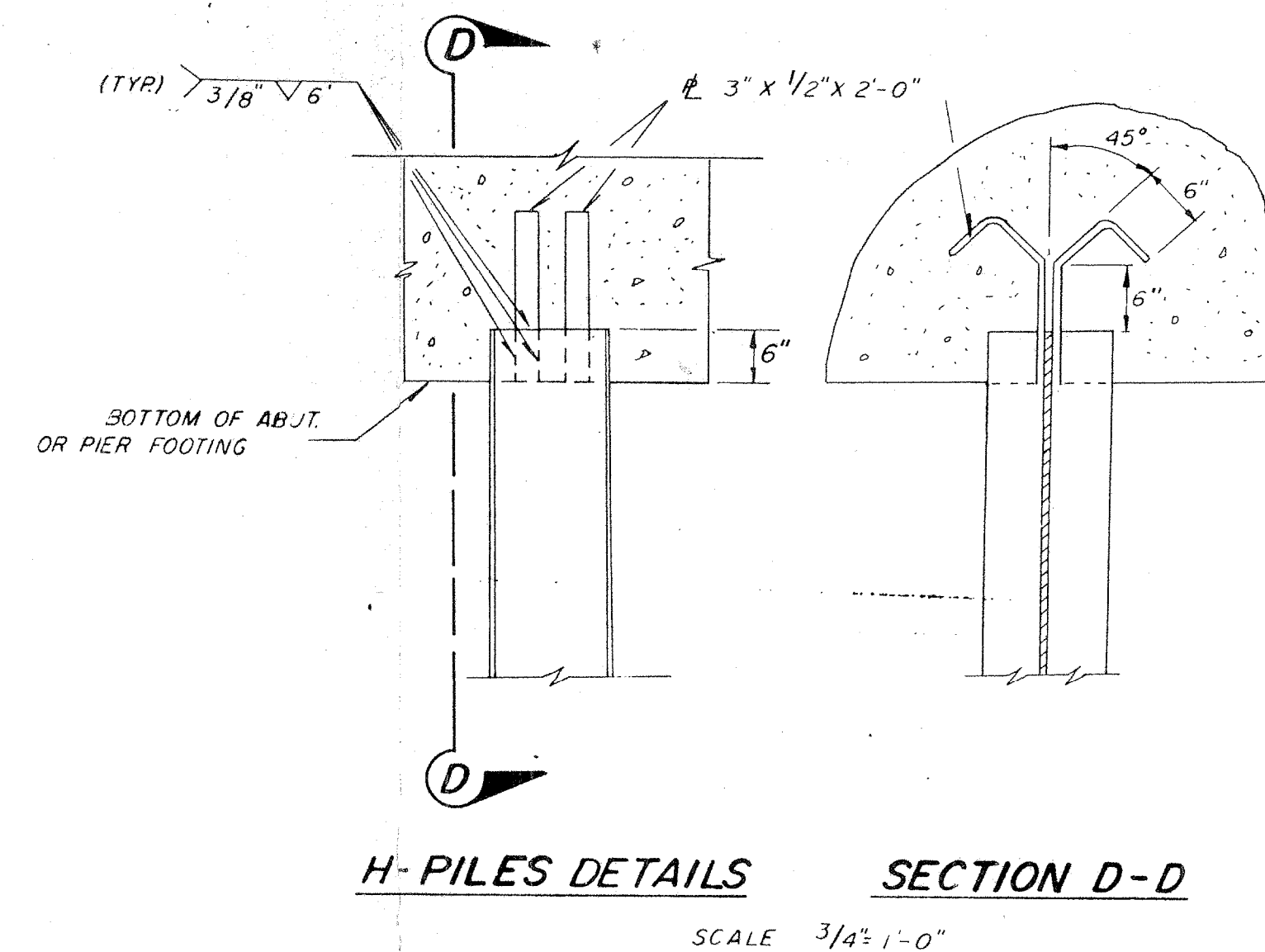
PLANS PREPARED BY:  
**VTC** CONSOLIDATED, INC.  
ENGINEERS ARCHITECTS PLANNERS  
2301 CAMPUS DRIVE (714) 833-2450  
IRVINE, CALIFORNIA 92614

PROJECT MANAGER: M.Z. Foroutan  
DESIGNED BY: M.Z.F.  
DRAWN BY: R.E.W. CHK. BY: D.T.L.  
APPROVED: [Signature] REG. NO. 21328  
DATE: 1975 JOB NO. 238-43

ORANGE COUNTY ROAD DEPARTMENT

**DEL OBISPO STREET  
BRIDGE WIDENING  
OVER TRABUCO CREEK**

**GENERAL PLAN**

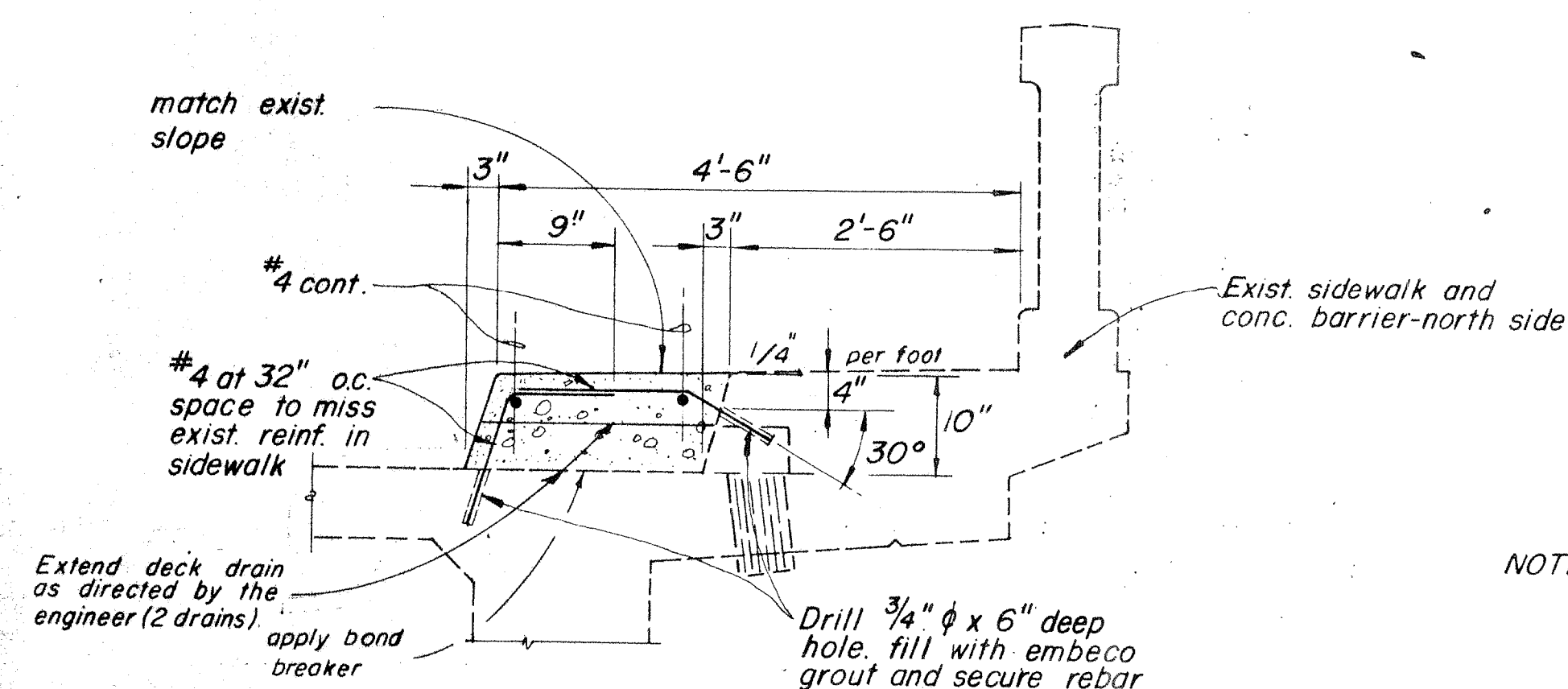


H-PILES DETAILS      SECTION D-D  
SCALE 3/4" = 1'-0"

NOTE: Existing Channel Elevations  
Shown in ( ).

PILING & FOUNDATION LAYOUT  
SCALE - NONE

PILE NOTES:  
All piles are HP 12x53. Minimum tip elevation of all piles shall be 43'.  
All piles shall be driven vertically.



NOTE: Provide expansion joint material  
to match joints in exist. sidewalk.  
(total 7)

TEMPORARY METAL BEAM RAILING  
SCALE - NONE

SIDEWALK WIDENING DETAIL  
SCALE  $\frac{3}{4}" = 1'-0"$

MS 10336

**PLANS PREPARED BY:**

**vti** CONSOLIDATED, INC.

**ENGINEERS ARCHITECTS PLANNERS**  
2301 CAMPUS DRIVE (714) 833-2450  
IRVINE, CALIFORNIA 92664

PROJECT MANAGER M.Z. Foroutan  
DESIGNED BY M.Z.F  
DRAWN BY K. Landers CHK. BY R.A.E.  
APPROVED [Signature] REG. NO. 21328  
DATE 1975 JOB NO. 238-4

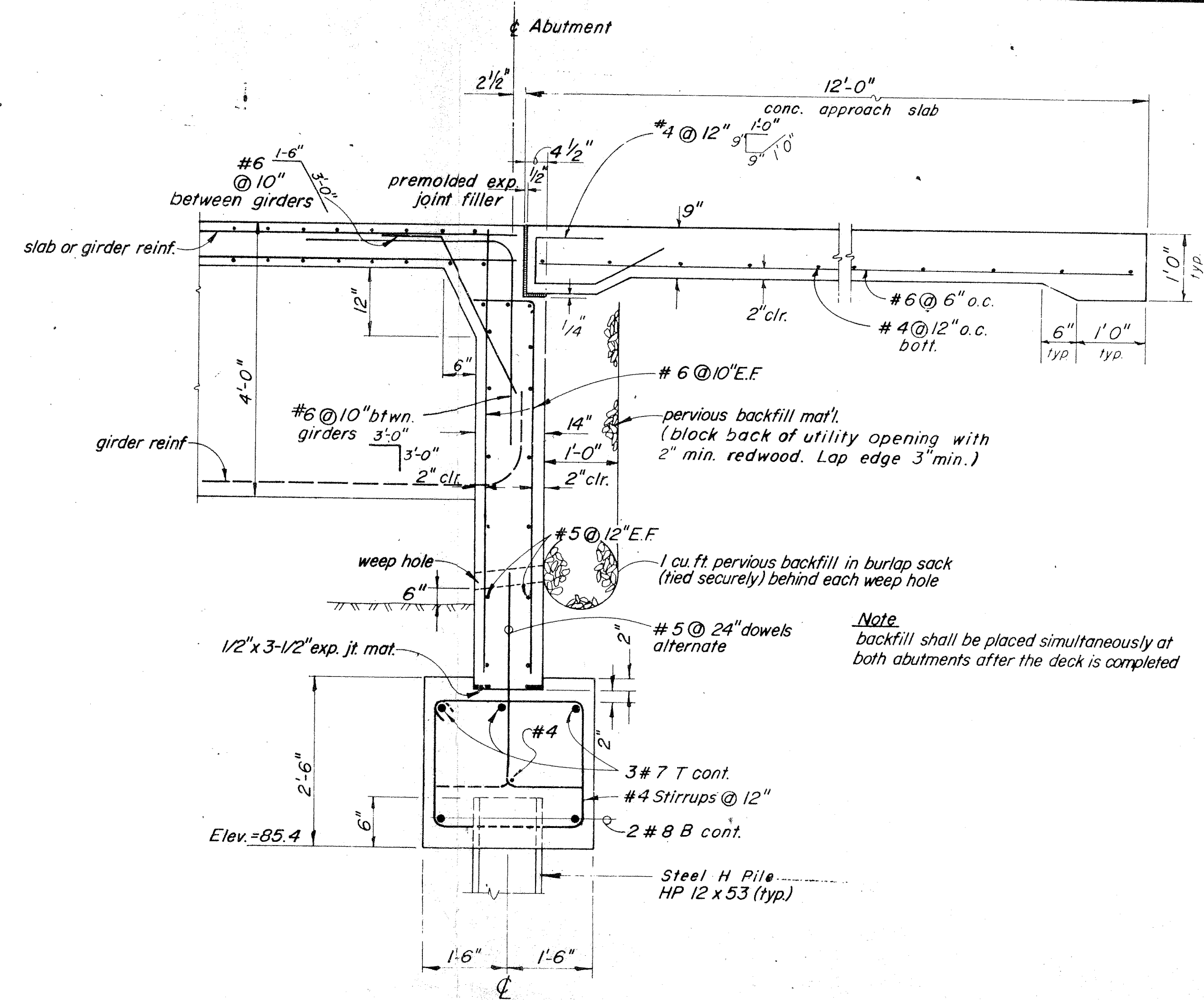
ORANGE COUNTY ROAD DEPARTMENT

DEL OBISPO STREET  
BRIDGE WIDENING  
OVER TRABUCO CREEK

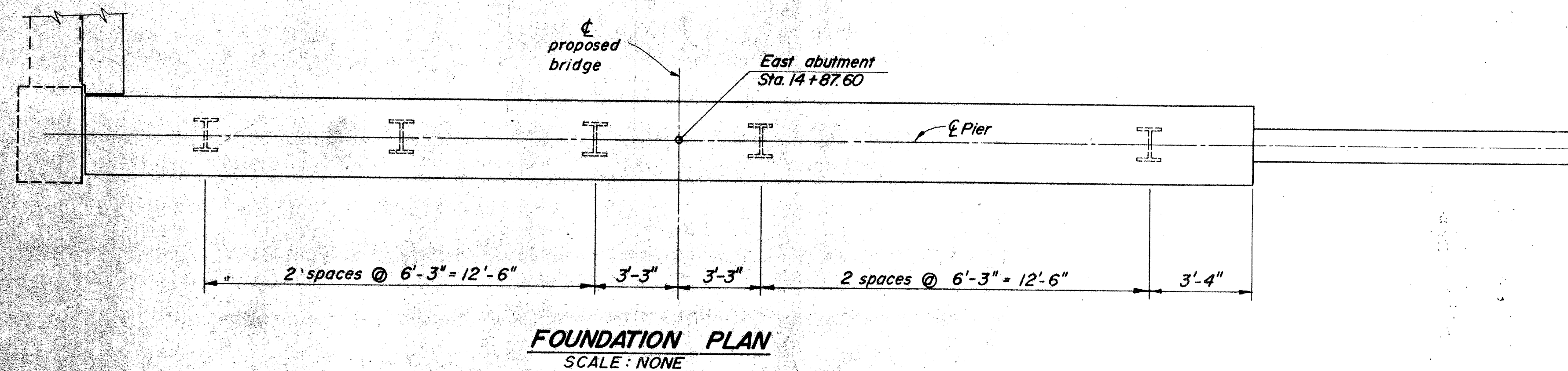
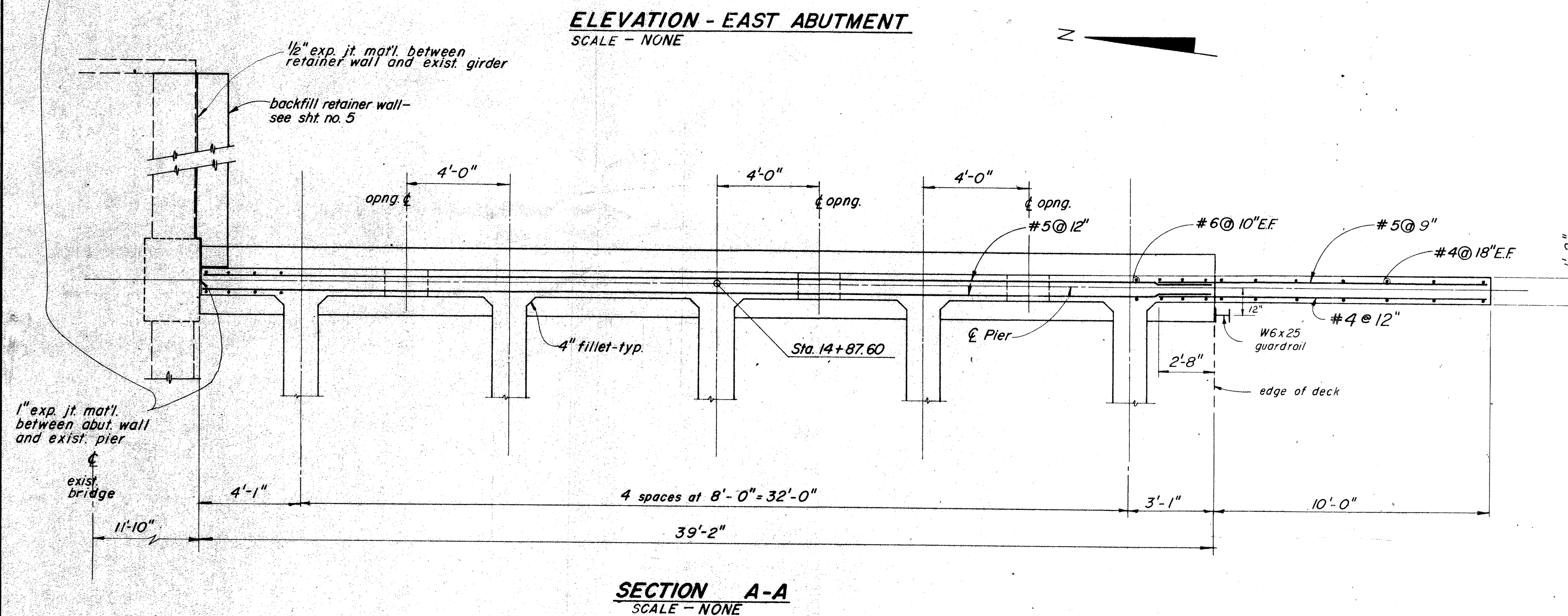
## FOUNDATION LAYOUT

|       |               |
|-------|---------------|
| scale | sheet 3 of 13 |
|-------|---------------|

014660



TYPICAL ABUTMENT SECTION B-B  
SCALE  $\frac{3}{4}" = 1'-0"$



## REFERENCES

1. For Section C-C, See Sheet No. 5
2. For Backfill Retainer Wall, See Sheet No. 5

PLANS PREPARED BY:

**VTL** CONSOLIDATED, INC.

ENGINEERS ARCHITECTS PLANNERS  
2301 CAMPUS DRIVE (714) 833-2450  
IRVINE, CALIFORNIA 92664

PROJECT MANAGER M.Z. Foroutan

DESIGNED BY M.Z.F.

DRAWN BY Londes/F.Duffield CHK. BY R.A.E.

APPROVED [Signature] REG. NO. 21328  
Professional Engineer

DATE 1975 JOB NO. 238-43

ORANGE COUNTY ROAD DEPARTMENT

DEL OBISPO STREET  
BRIDGE WIDENING  
OVER TRABUCO CREEK

EAST ABUTMENT

|       |               |
|-------|---------------|
| scale | sheet 4 of 13 |
|-------|---------------|