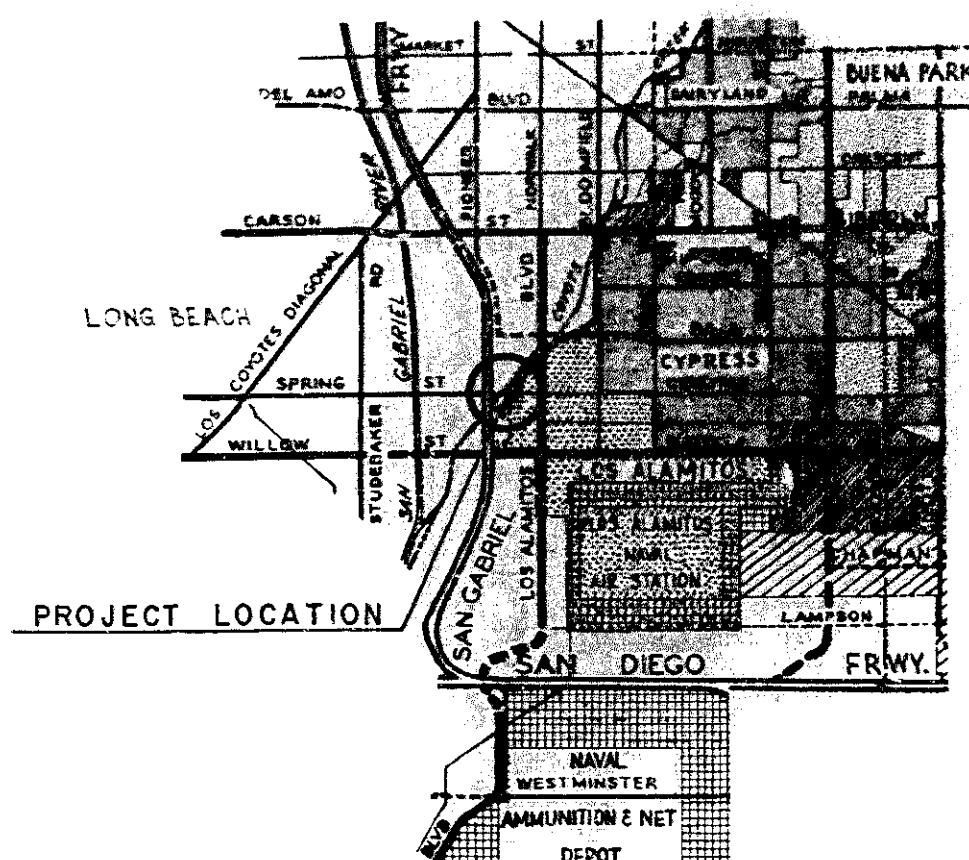


15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

51 5



LOCATION MAP
0 1/4 1/2 3/4 1

Scale: 1" = 1 Mile

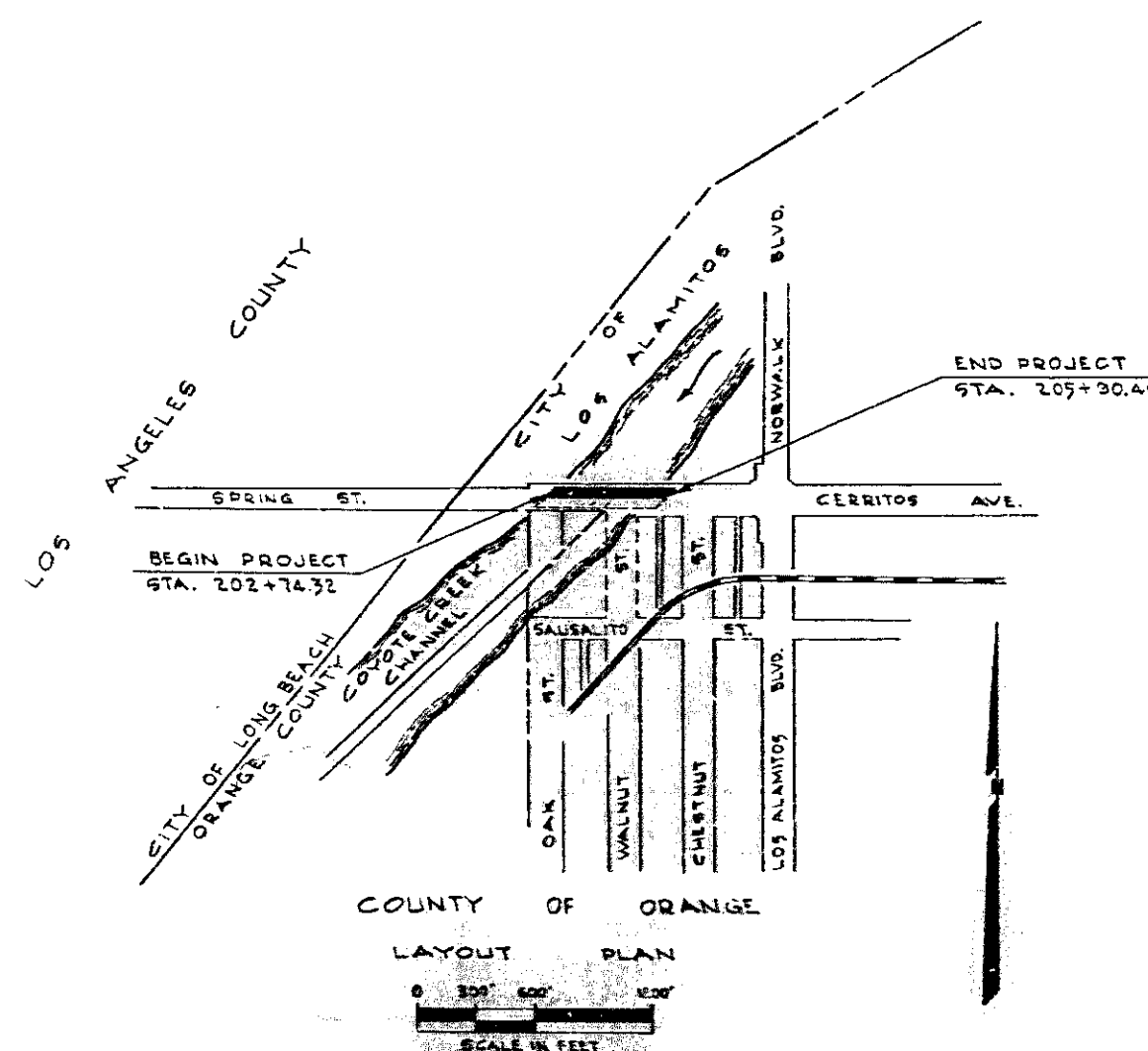
ORANGE COUNTY
HIGHWAY DEPARTMENT
STATE OF CALIFORNIA
PLAN AND PROFILE
CERRITOS AVENUE BRIDGE

ACROSS COYOTE CREEK C.O. 39
FROM STATION 202+74.32 TO STATION 205+90.40
TOTAL LENGTH 0.060 MILES

INDEX OF SHEETS

SHEET	NO	
"	"	1 TITLE SHEET
"	"	2 GENERAL PLAN
"	"	3 PIER DETAIL
"	"	4 ABUTMENT DETAILS
"	"	5 GIRDER DETAILS
"	"	6 SLAB REINFORCING & CONCRETE DETAIL
"	"	7 RAIL DETAIL
"	"	8 PILE DETAIL
"	"	9 LOG OF TEST BORINGS
"	"	10 COYOTE CREEK CHANNEL

COUNTY OF ORANGE
Allen S. Kohn
ROAD COMMISSIONER, ORANGE COUNTY
CIVIL ENGINEER LICENSE NO. 7872
DATE 5-18-61



AS BUILT

Bridge CD-39A
Cerritos Ave. Bridge
Sheet 1 of 10
Red. Ratio 22.5:1
Scale 1"=1'
Autopositive

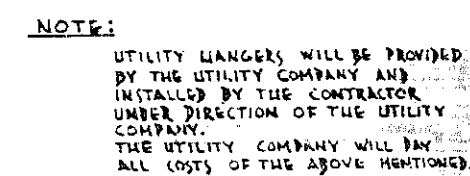
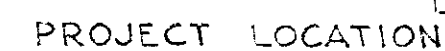
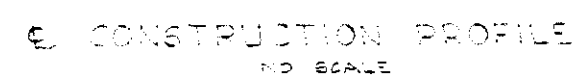
AS BUILT PLANS
MARCH, 1962
D.E. BOURGEOIS, RES. ENGR.
R. BARNARD, INSP.

MICROFILMED
JUN 14 1962

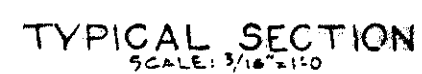
CONVENTIONAL SIGNS	
COUNTY LINE	FREE STAMPS
CITY LIMITS	FRUIT TREES
R.W. LINE	EUCALYPTUS TREE
BASE OR SURVEY LINE	EVERGREEN TREE
CONSTRUCTION	PALM TREE
TRAVELED WAY	POWER POLE
RAILROAD TRACKS	TELEPHONE POLE
CULVERTS	OUT POLE & ANCHOR
DROP INLET	MANHOLE
WOOD FENCE	FIRE HYDRANT
WIRE FENCE	STANDPIPE
CHAIN LINK FENCE	WEIR BOX
CORRUGATED METAL FENCE	GAS/WATER METERS
CONCRETE WALL	WATER VALVE
MASONRY WALL	GUARD RAIL
HEDGE OR BUSHES	LEVEE
BANK OR RETAINING WALL	RAILROAD
FULL SLOPE	DITCH
CUT SLOPE	UNFENCED PROPERTY

C O 39A CERRITOS AVE BRIDGE OVER COYOTE CREEK FROM STA. 202+74.32 TO STA. 205+90.40

SHEET 1 OF 10



AS BUILT ELEV. 5
006' LOWER.



DESIGN CLASSIFICATION
H2O - S 16 AA5HD, ETC.

AS BUILT

ORANGE COUNTY HIGHWAY DEPARTMENT

CERRITOS AVE. BRIDGE
ACROSS
COYOTE CREEK

GENERAL PLAN

SCALE: 1" = 100' NOTED SHEET 2

Bridge CO-39A
Cerritos Ave. Bridge
Sheet 2 of 10
Rad. Ratio 22.5;1
Scale As Noted
Pencil Sketch

RECEIVED
JUN 14 1962

00 39-K

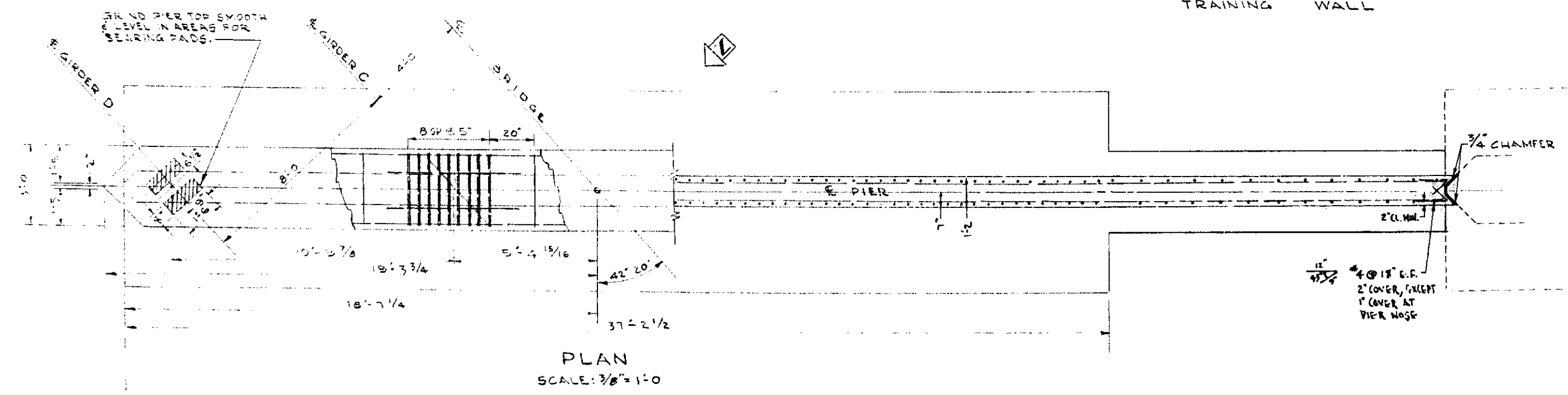
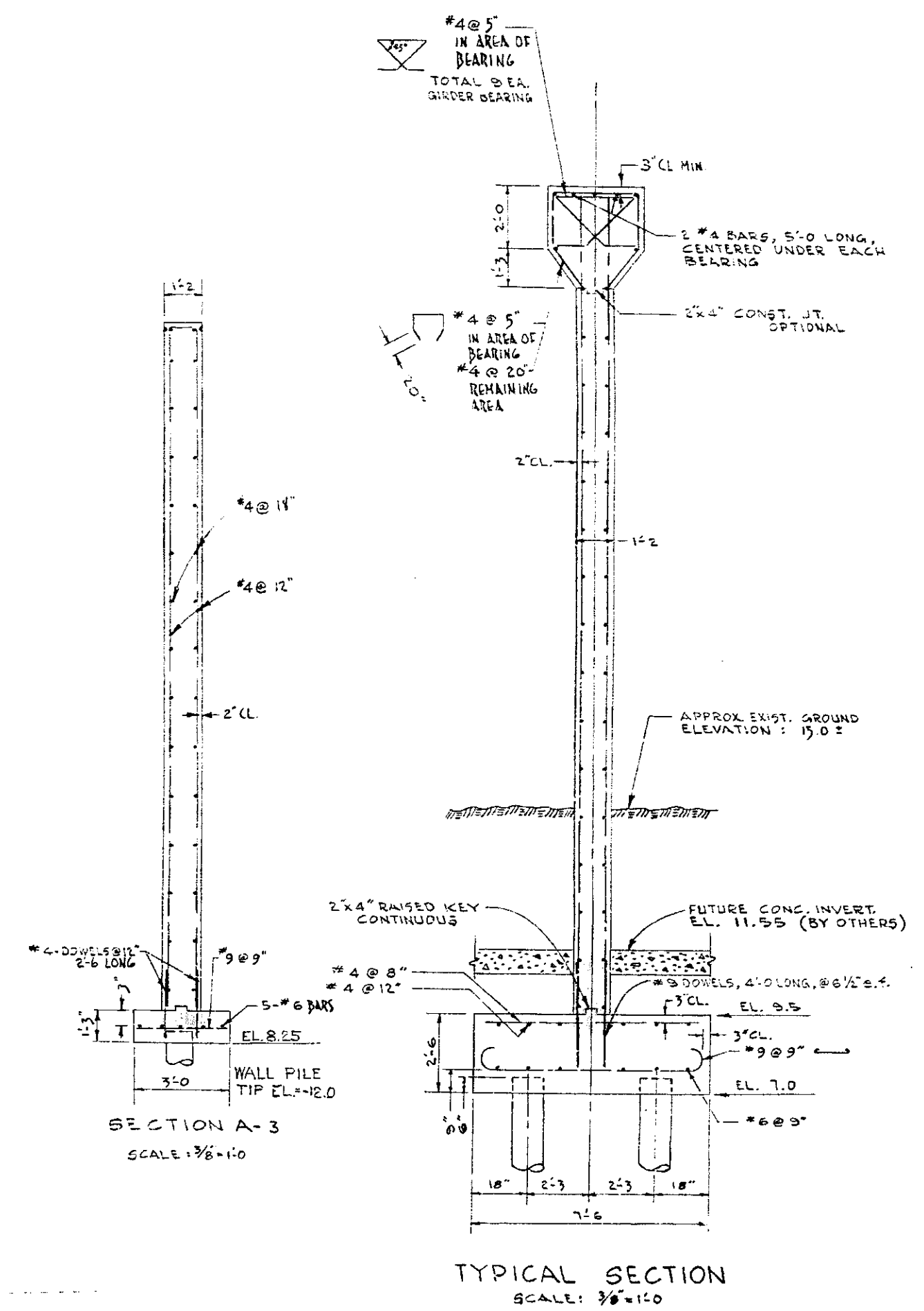
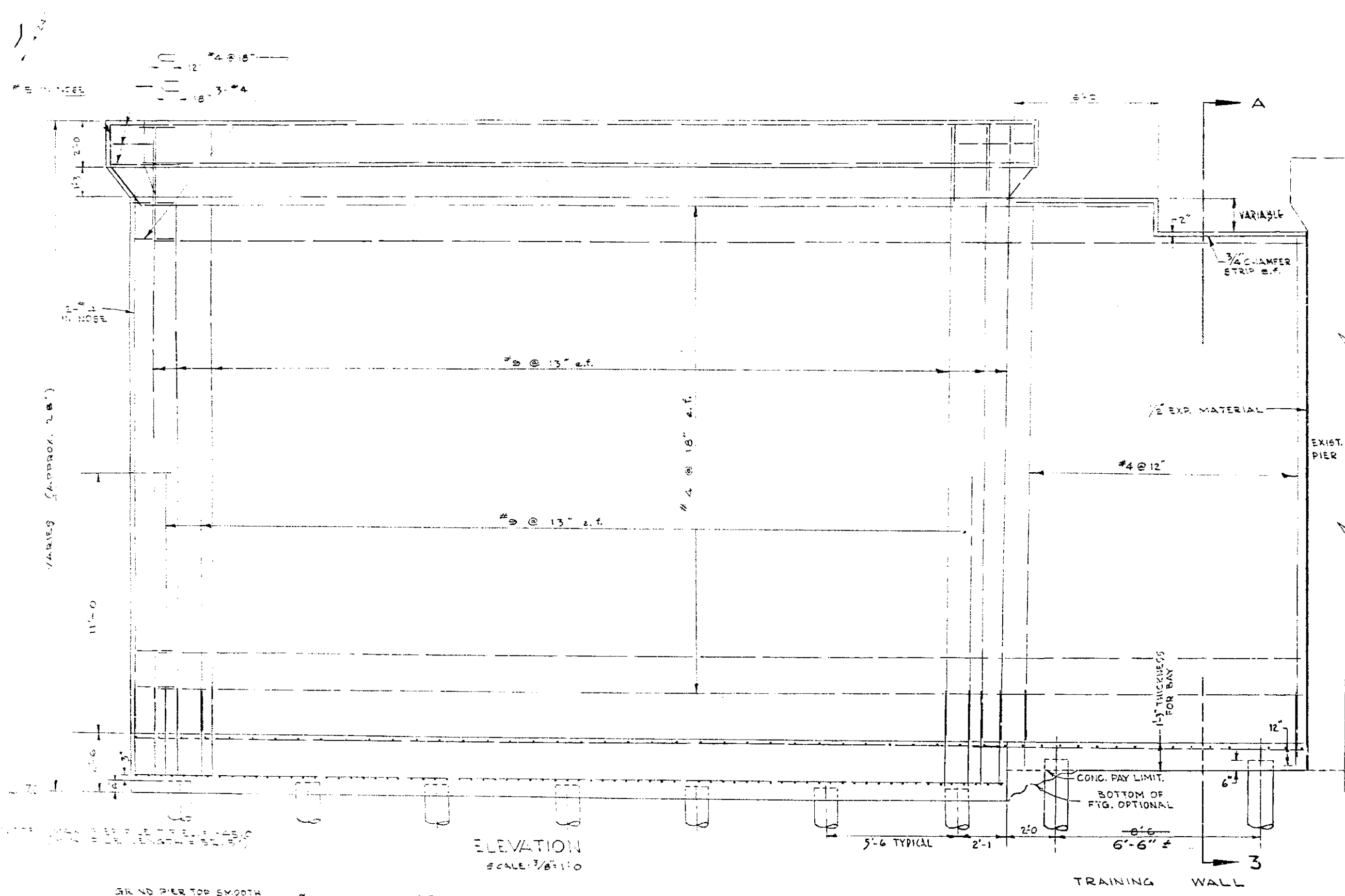


TABLE OF ELEV. FOR TOP/PIER AT SMOOTH SURFACE OF CONCRETE UNDER PAD

PIER	GIRDER			
	A	B	C	D
#1	33.42	33.45	33.48	33.51
#2	34.46	34.45	34.44	34.43
#3	35.02	34.56	34.89	34.82
#4	34.85	34.71	34.57	34.42
#5	33.85	33.63	33.41	33.18

△ Elevs. Corrected 7-91
AS BUILT ELEV'S 0.22'
HIGHER - C.C. NO. 2

AS BUILT

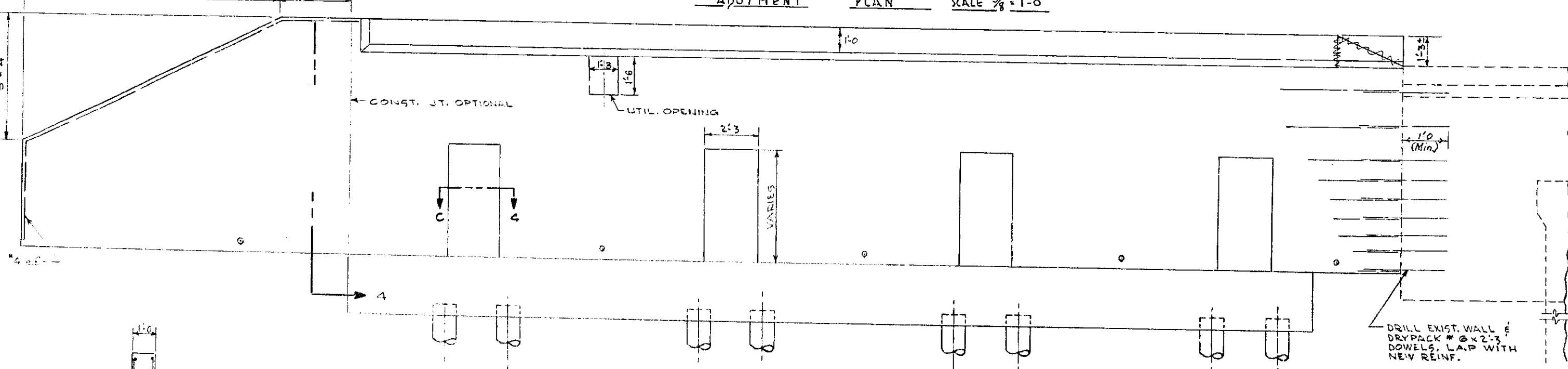
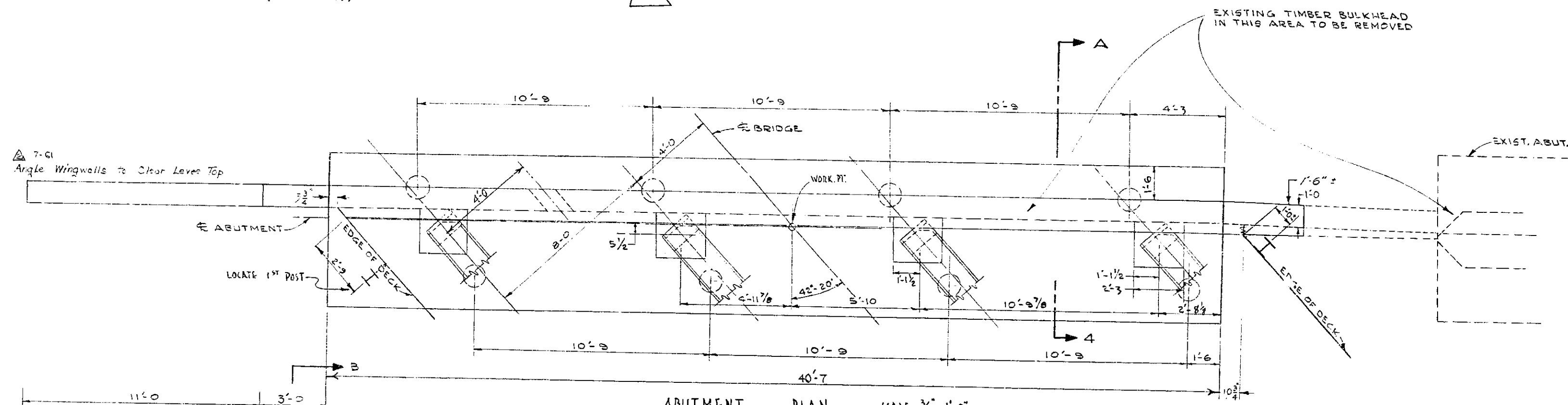
Bridge 00-39A
Cerritos Ave. Bridge
Sheet 3 of 10
Red. Ratio 22.5:1
Scale As Noted
Pencil Sketch

MICROFILMED
JUN 14 1962

ORANGE COUNTY HIGHWAY DEPARTMENT	
CERRITOS AVE. BRIDGE ACROSS COYOTE CREEK	
PIER	DETAIL
SCALE NOTED	SHEET 3 OF 10

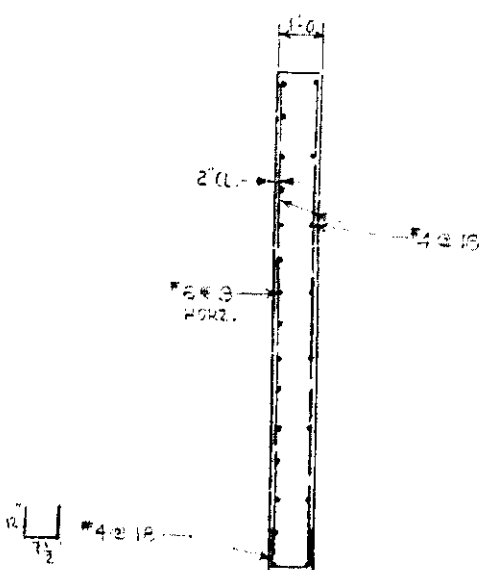
00 39-A

NOTE:
ADDITIONAL SECTIONS OF
GUARD RAIL & END WINGS TO
BE INSTALLED DURING APPROACH
CONSTRUCTION, (BY OTHERS)

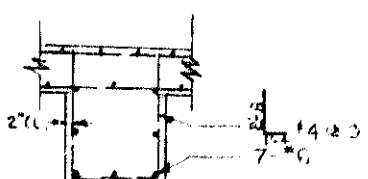


ABUTMENT ELEVATION
SCALE 3/8" = 1'-0"

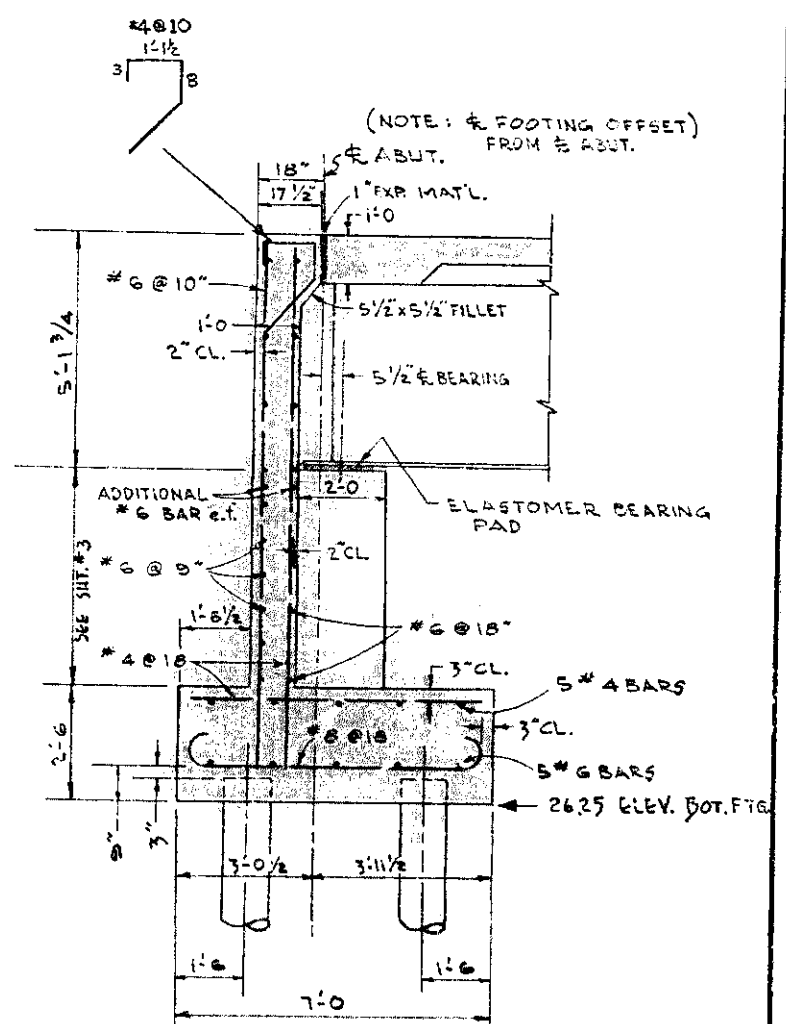
NOTE:
1. PILE TIP ELEV. -45
2. EAST ABUTMENT SHOWN,
WEST ABUTMENT SIMILAR
BUT OPPOSITE HAND.



SECTION B-4



SECTION C-4



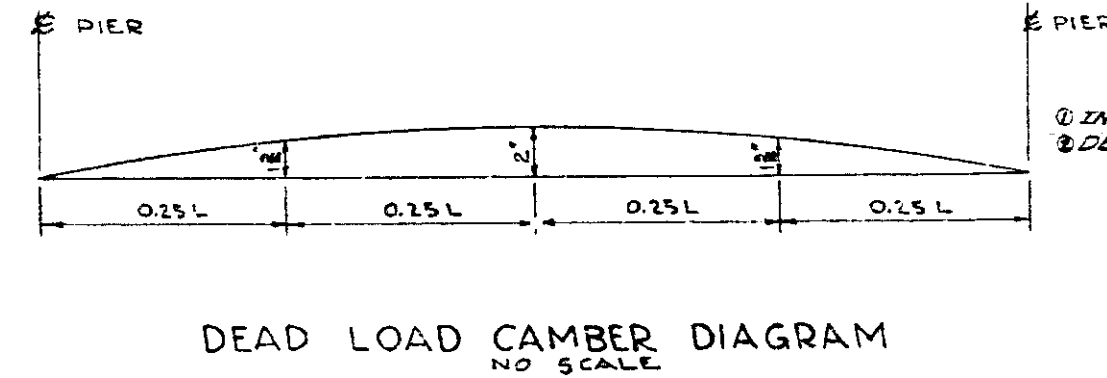
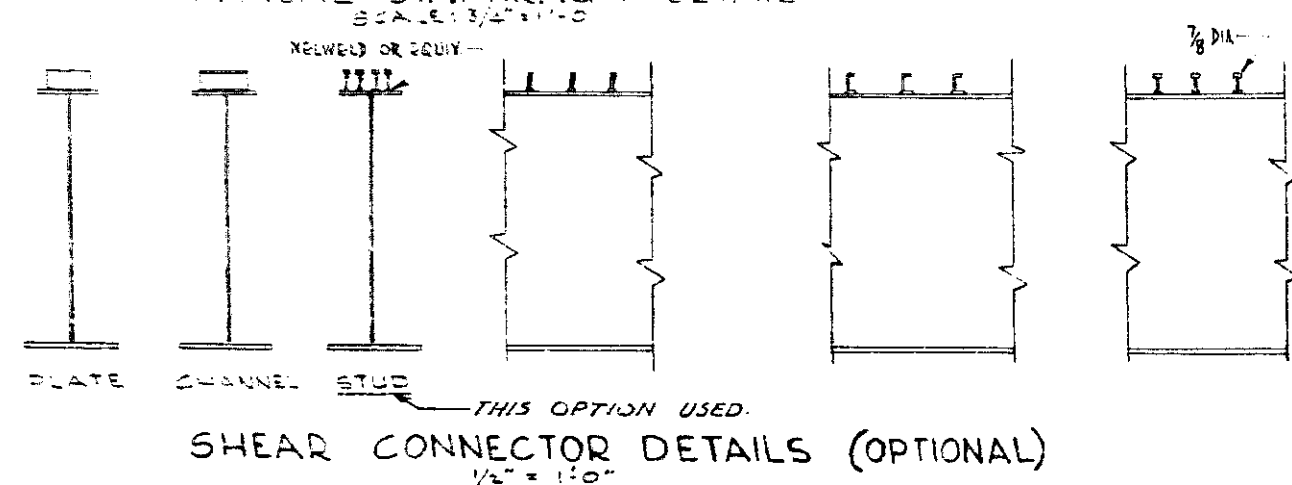
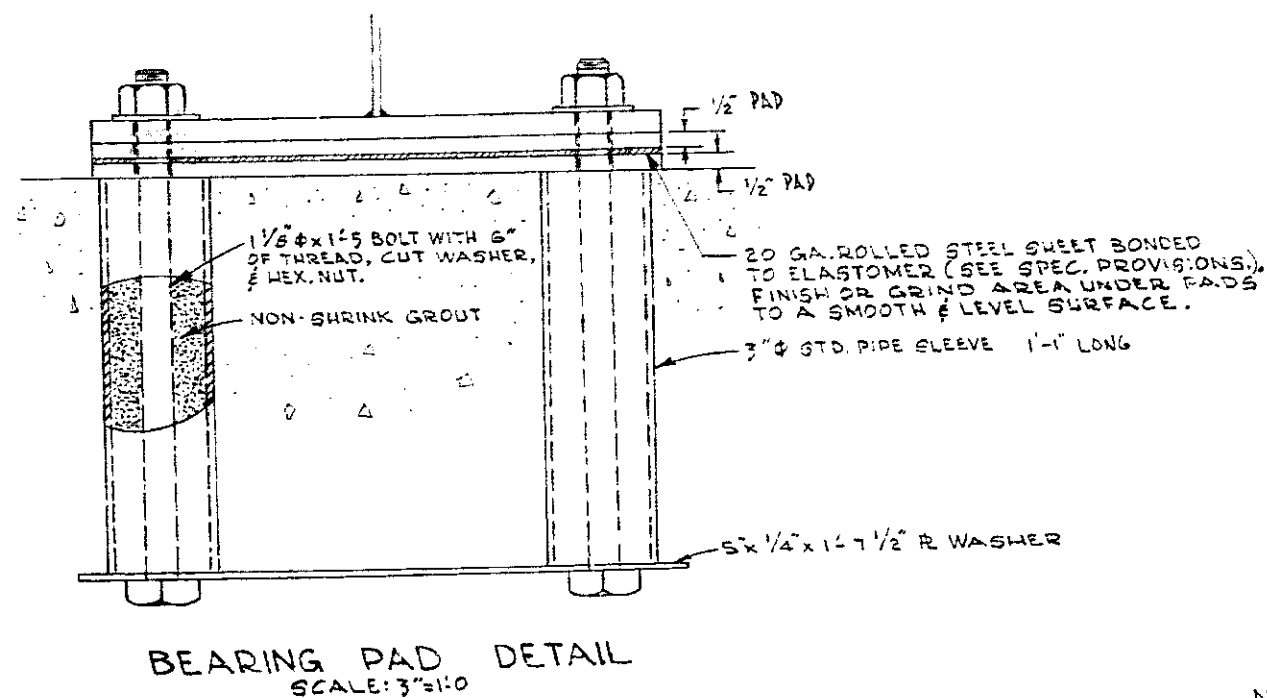
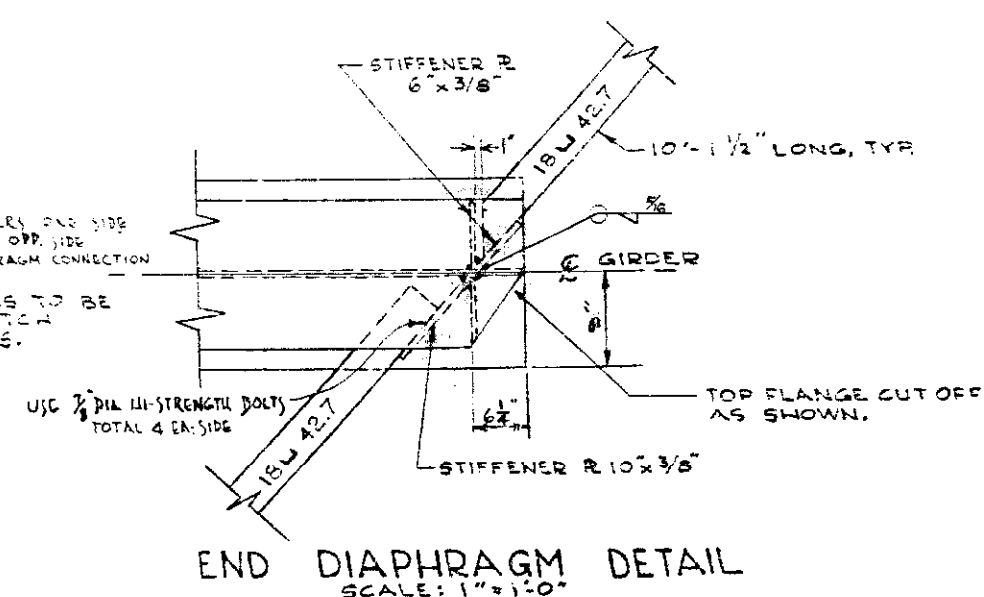
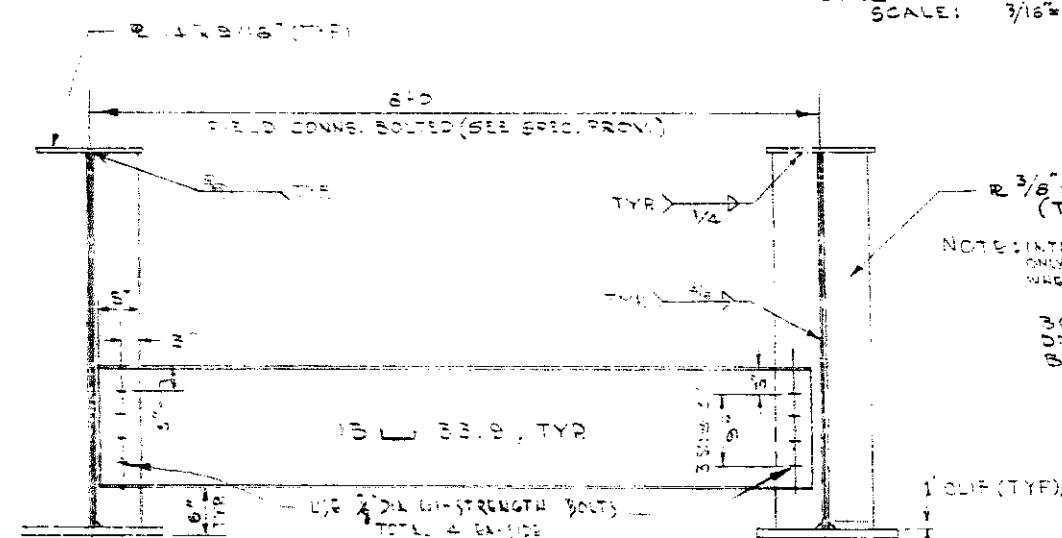
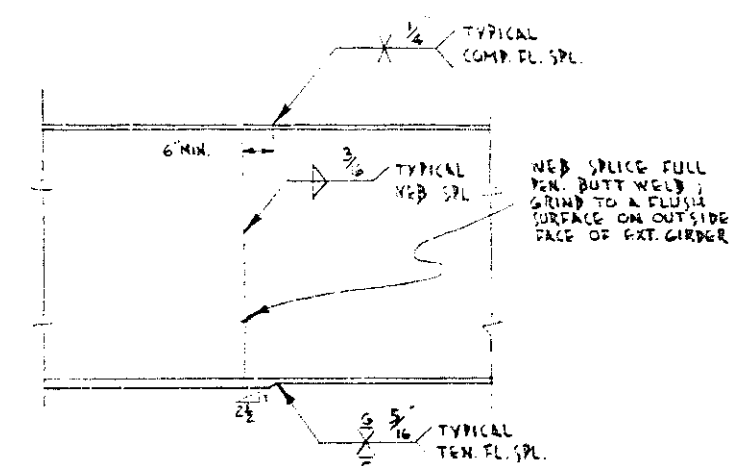
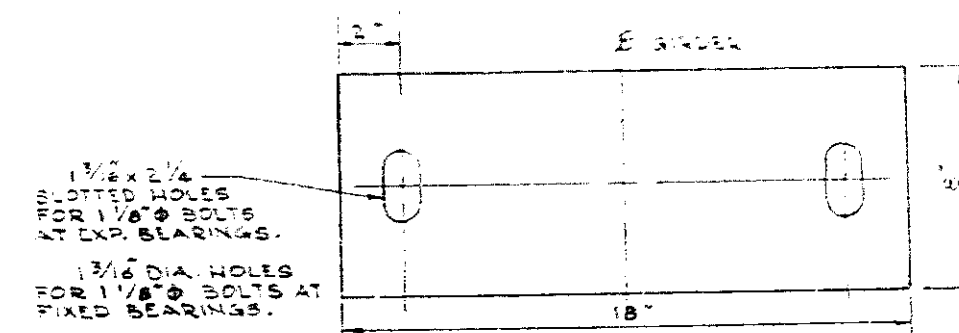
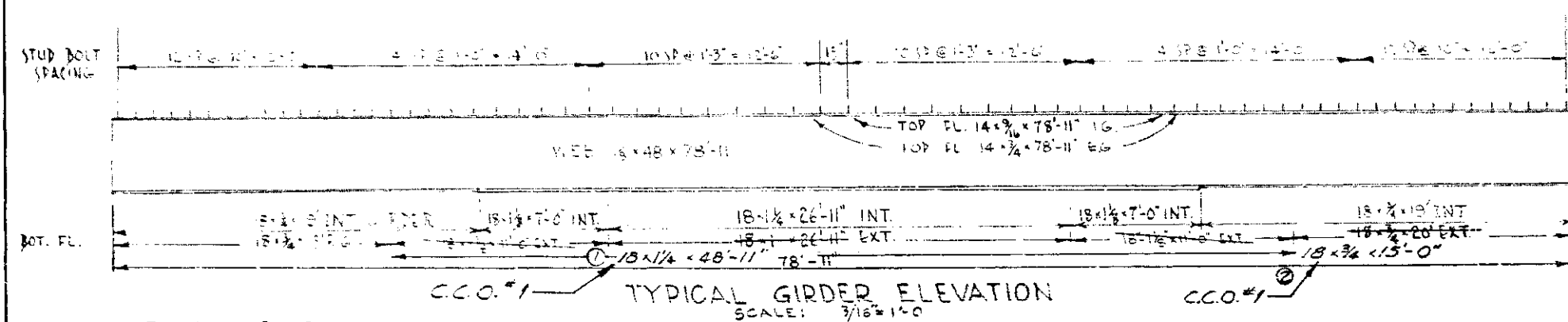
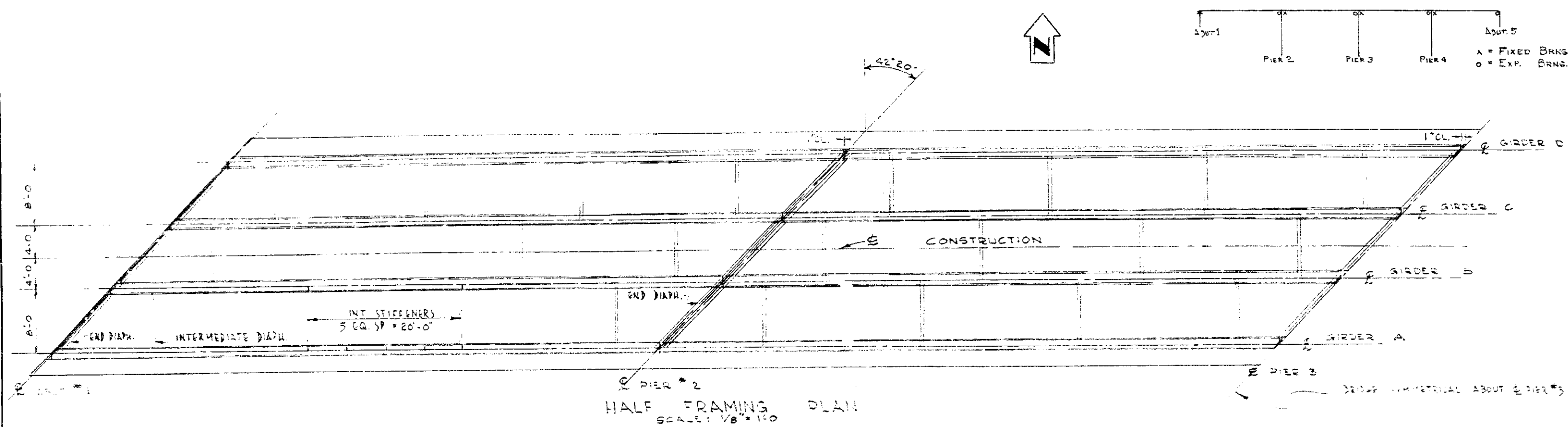
SECTION A-4
SCALE 3/8" = 1'-0"

AS BUILT

Bridge 00-37A
Cerritos Ave. Bridge
Sheet 4 of 10
Red. Ratio 22.5:1
Scale 3/8" = 1'-0"
Penall Sketch

ORANGE COUNTY HIGHWAY DEPARTMENT	
CERRITOS AVE. BRIDGE	
ACROSS	
COYOTE CREEK	
ABUTMENT DETAILS	
SCALE 3/8" = 1'-0"	SHEET 4 OF 10

00-37A



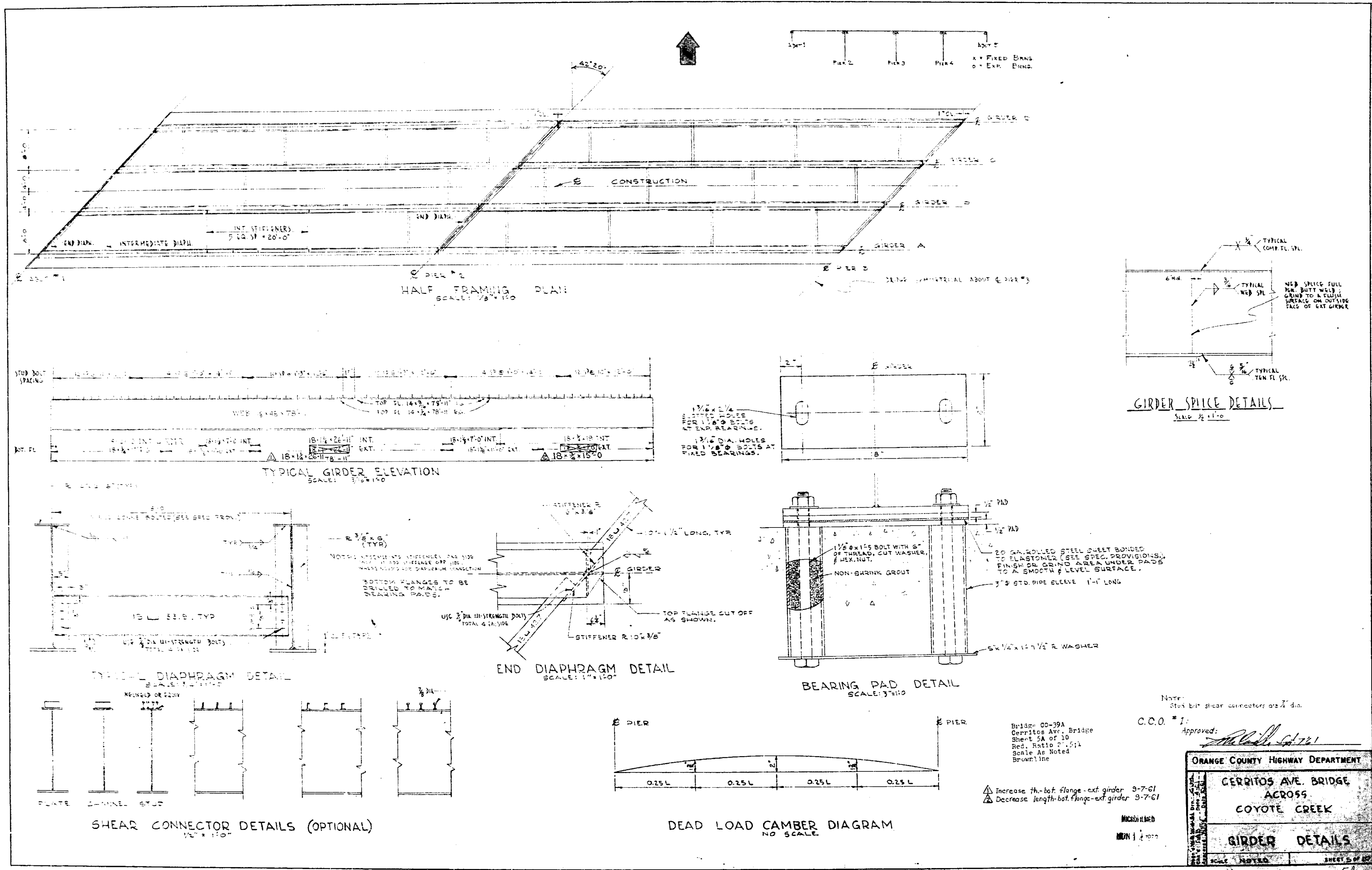
Note:
Stud bolt shear connectors are 3/8" dia.

Bridge 00-39A
Cerritos Ave. Bridge
Sheet 5 of 10
Red. Ratio 27.5:1
Scale As Shown
Pencil Sketch

AS BUILT

ORANGE COUNTY HIGHWAY DEPARTMENT	
CERRITOS AVE. BRIDGE ACROSS COYOTE CREEK	
GIRDER DETAILS	
SCALE NOTED	SHEET 5 OF 10

CO 39A



CO-39 A

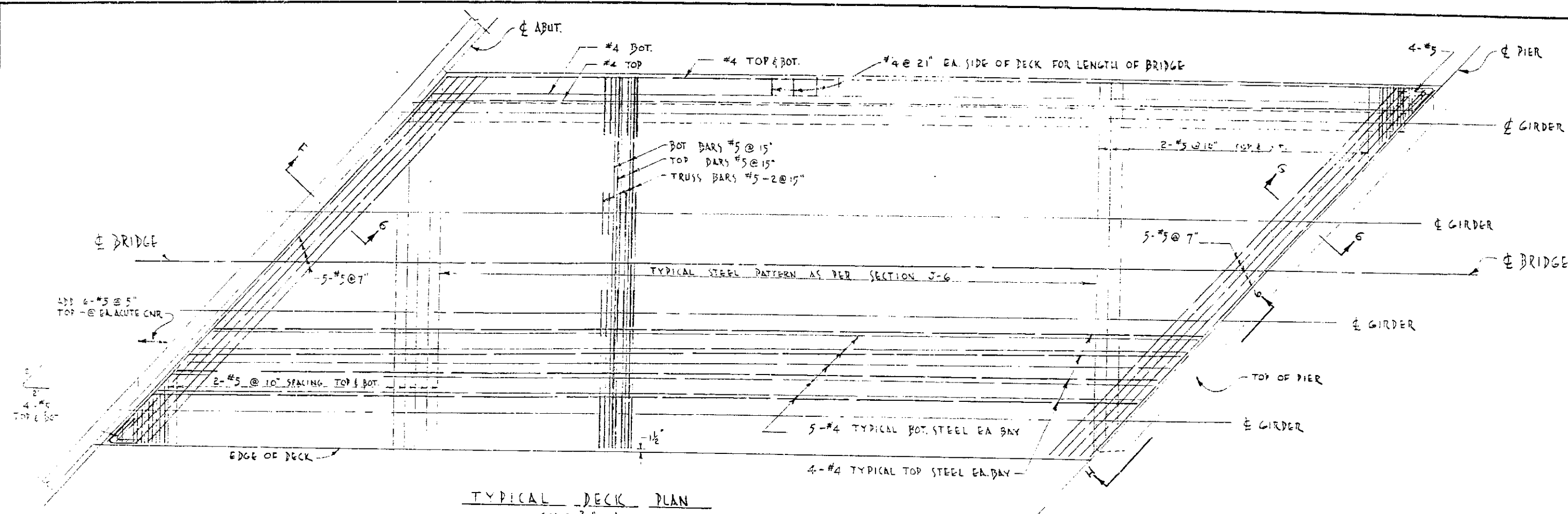
ORANGE COUNTY HIGHWAY DEPARTMENT

GERRITOS AVE. BRIDGE
ACROSS
COYOTE CREEK

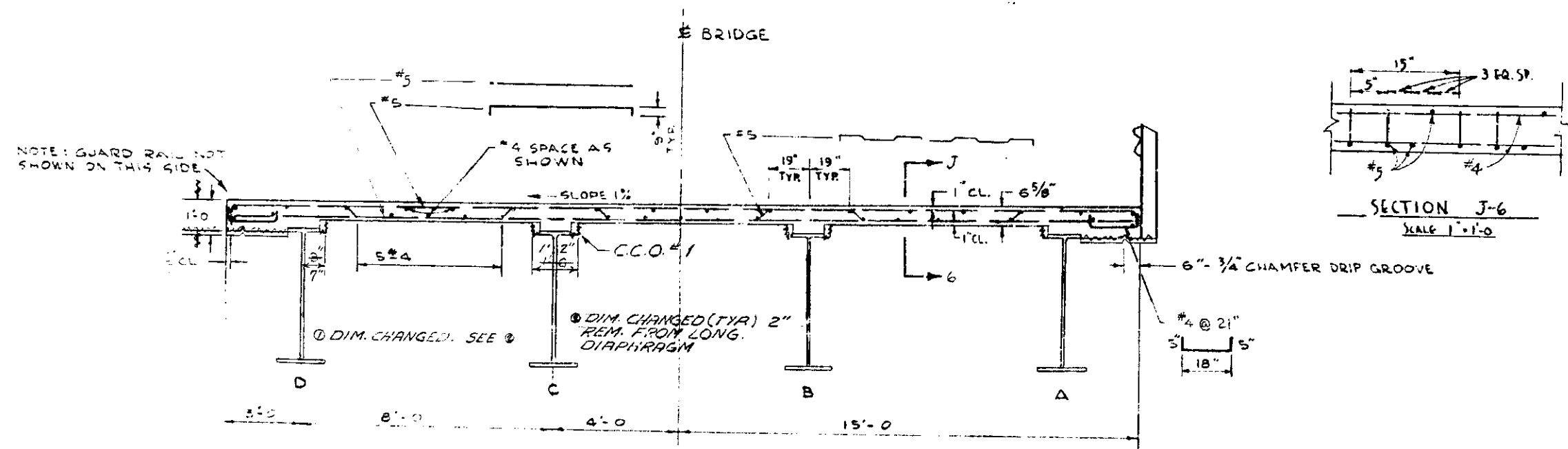
GIRDER DETAILS

SCALE: 1/2" = 1'-0"

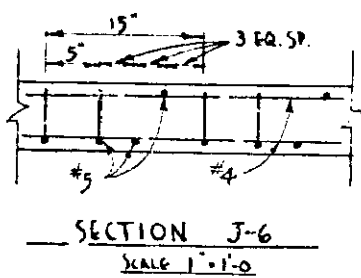
SHEET 5 OF 10



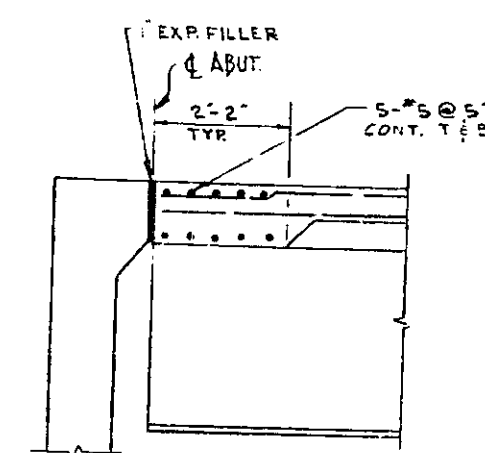
TYPICAL DECK PLAN
SCALE 3/8" = 1'-0"
NOTE: OTHER SPANS SIMILAR TO ABOVE



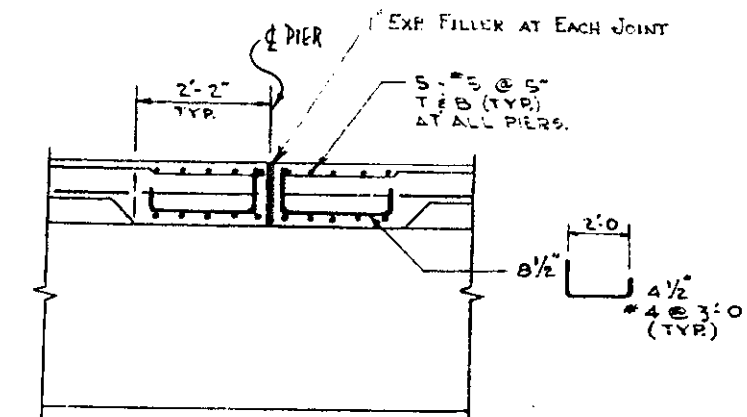
TYPICAL SECTION
SCALE 3/8" = 1'-0"



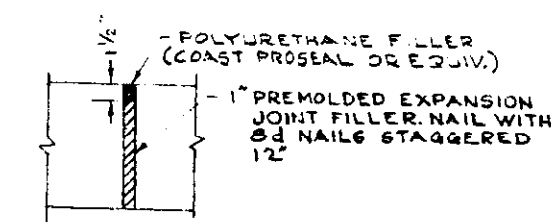
SECTION J-6
SCALE 1/2" = 1'-0"



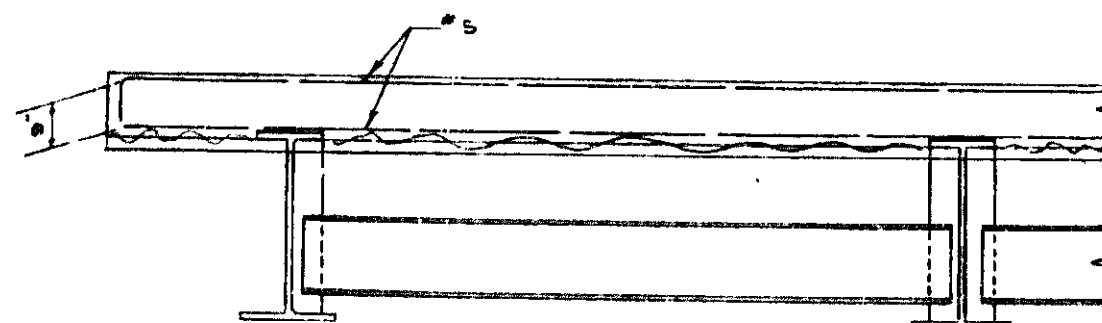
SECTION F-6
SCALE 1/2" = 1'-0"



SECTION G-6
SCALE 1/2" = 1'-0"

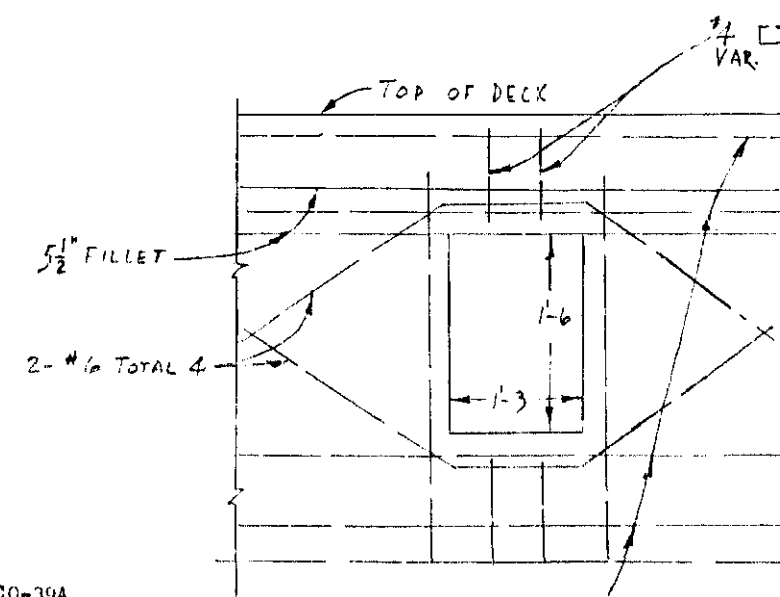


EXPANSION FILLED DETAIL
SCALE 1/2" = 1'-0"



SECTION H-6
SCALE 1/2" = 1'-0"

Bridge: 00-39A
Cerritos Ave. Bridge
Sheet 6 of 10
Red. Ratio 22.5:1
Scale As Noted
Autopositive



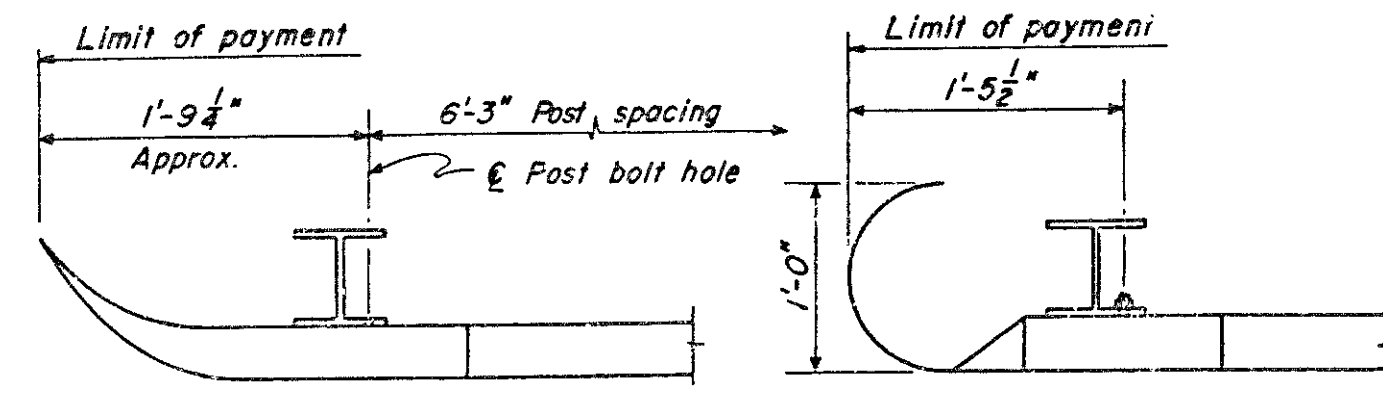
UTILITY OPENING IN ABUT.

- NOTES: UNLESS OTHERWISE INDICATED:
1. BAR SPLICES TO BE STAGGERED & LAPPED 20 DIA. EXCEPT AS NOTED.
 2. REINFORCING STEEL SHALL HAVE 1" COVER.
 3. DECK TRUSS BAR BENDS SHALL BE 45°.
 4. ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTION AS SHOWN ON SHEET 5 IN SETTING FINAL DECK ELEVATIONS.

AS BUILT

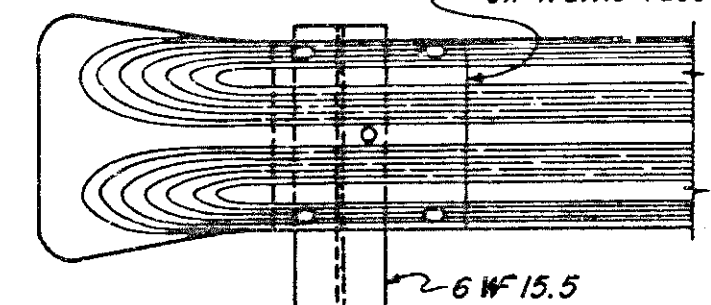
ORANGE COUNTY HIGHWAY DEPARTMENT	
CERRITOS AVE. BRIDGE ACROSS COYOTE CREEK	
SLAB REINFORCING & CONCRETE DETAIL	
SCALE	NOTED
SHEET 6 OF 10	

00 39A



PLAN

Terminal section lapped on traffic face

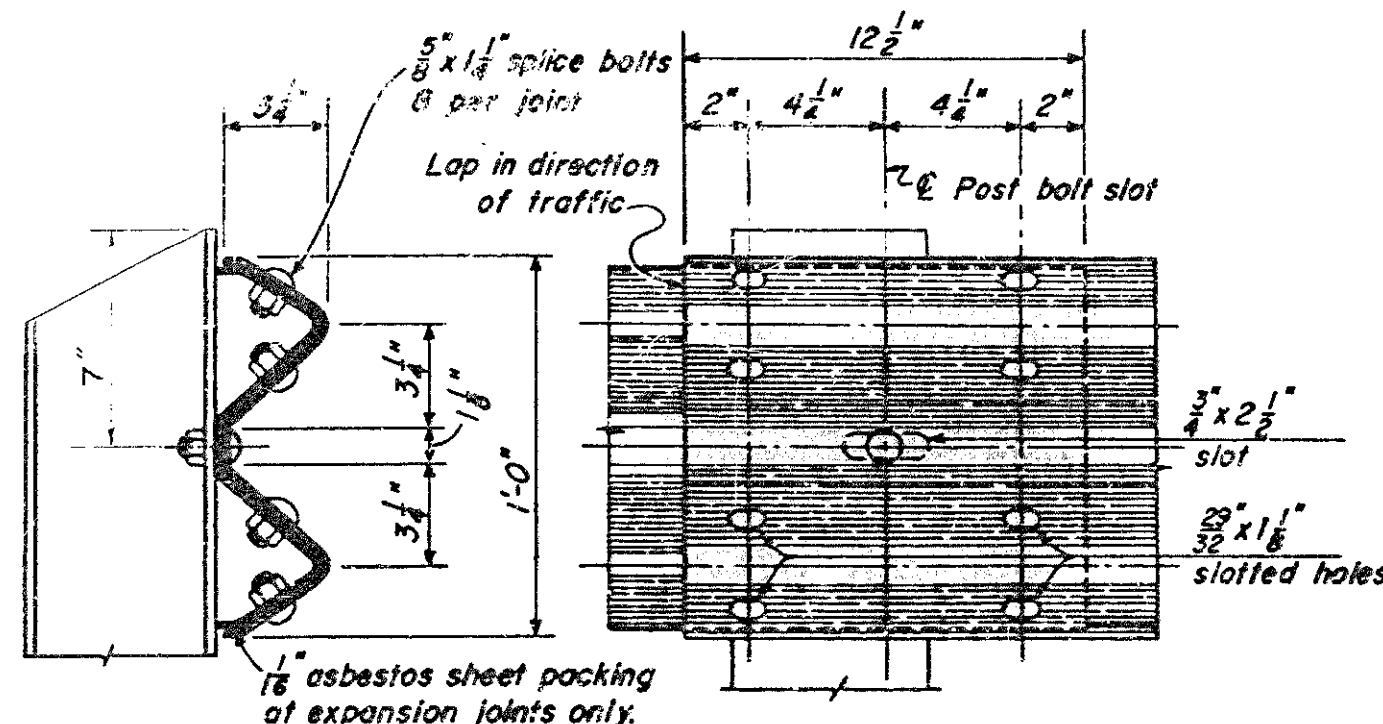


ELEVATION

END POST ON SHOULDER
SCALE: 1 1/2"=1'-0"

NOTE: Place end post on shoulder if structure does not accommodate 12'-5" unit length.

ALTERNATIVE END DETAIL

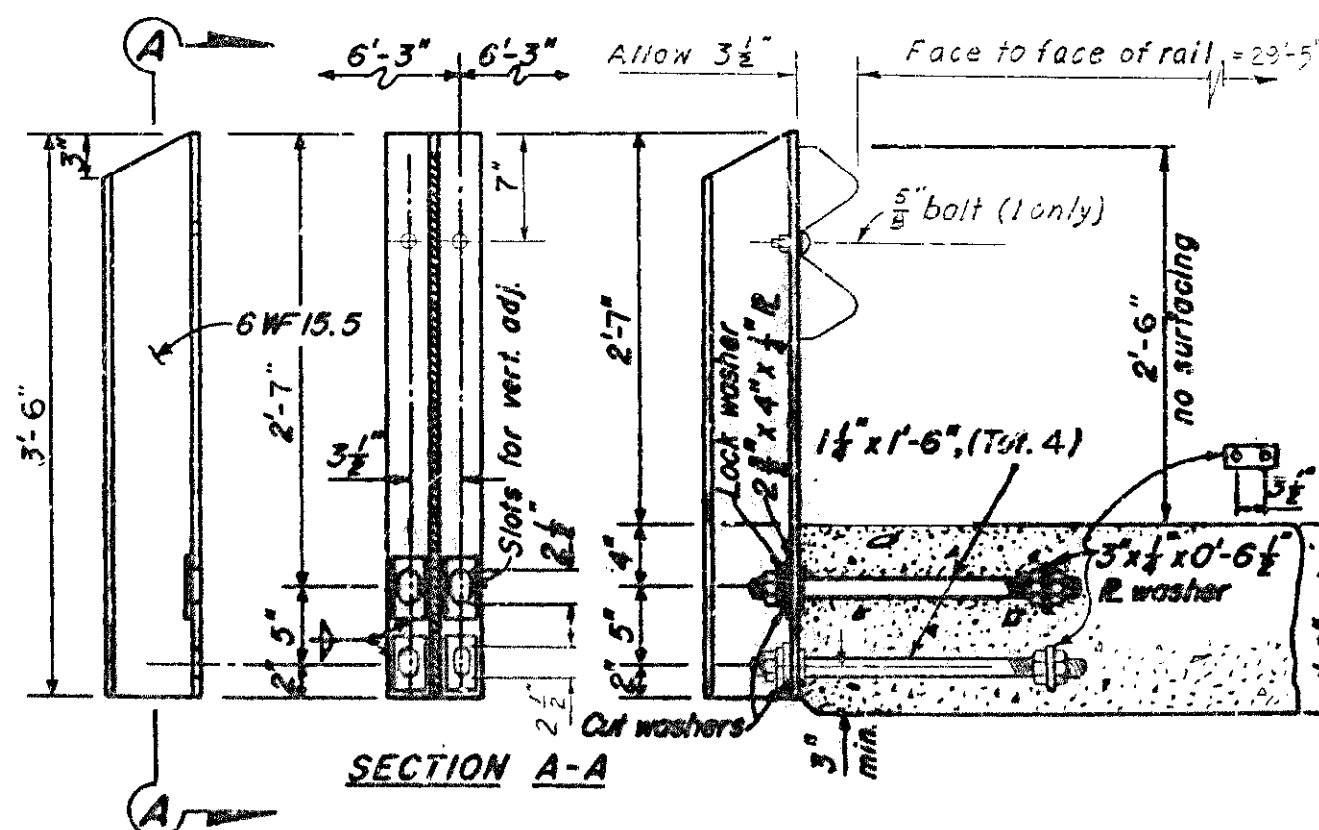


CROSS SECTION

ELEVATION

RAIL SPLICE

Scale: 3"=1'-0"



SECTION A-A

POST FOR THIN SLABS

SCALE: 1 1/2"=1'-0"

Notes:

At rail splice nearest expansion joint in bridge deck, slot holes in movable section of rail to allow some amount of movement as is provided in bridge deck. Place 1/8" asbestos sheet packing between rail elements. Adjust bolts to provide sliding fit and set threads.

Use 3'-6" posts whenever possible. All anchor rods to have hex. nuts. Provide lock washers for top anchor rods. Weld 2 1/2" x 4" x 1/4" plates on 1/2" posts when using 1 1/4" anchor rods. Contractor to provide metal shims to align posts. Space posts to clear expansion joints by 1'-0" min. to E post. Posts and anchors to be galvanized after fabrication. Railings on retaining walls to be placed after walls are backfilled. Bend rods if necessary to maintain minimum clearance on superelevated slabs.

See Special Provision for rail element.

See Sheet 4 for 1st Post Spacing

Note:

Shims for post alignment shall be galv. wedges.

AS BUILT

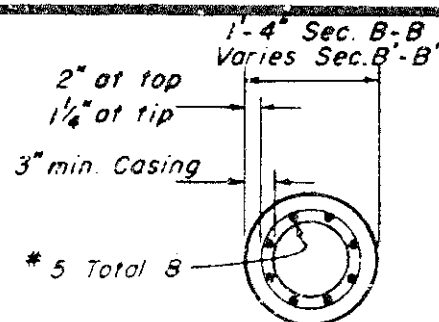
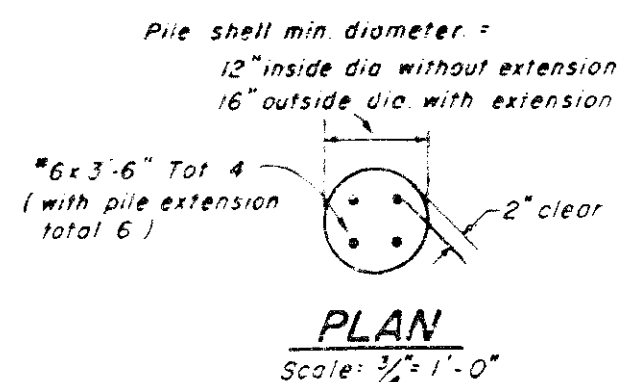
CERRITOS AVE. BRIDGE
ACROSS
COYOTE CREEK
RAIL DETAIL

Bridge 00-39A
Cerritos Ave. Bridge
Sheet 7 of 10
Reel, Ratio 22.5:1
Scale As Noted
Automatic

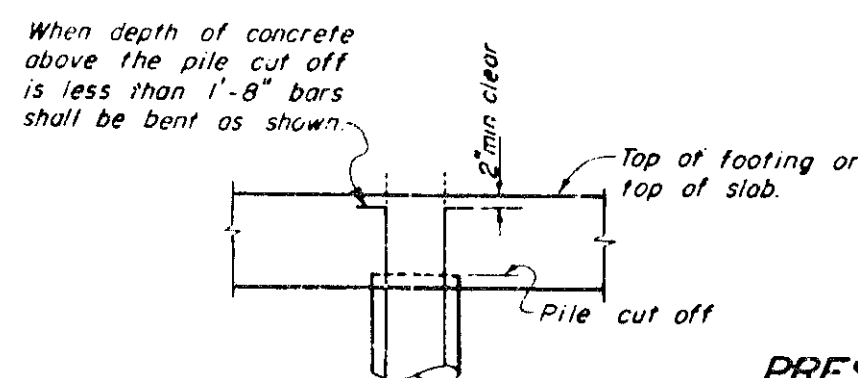
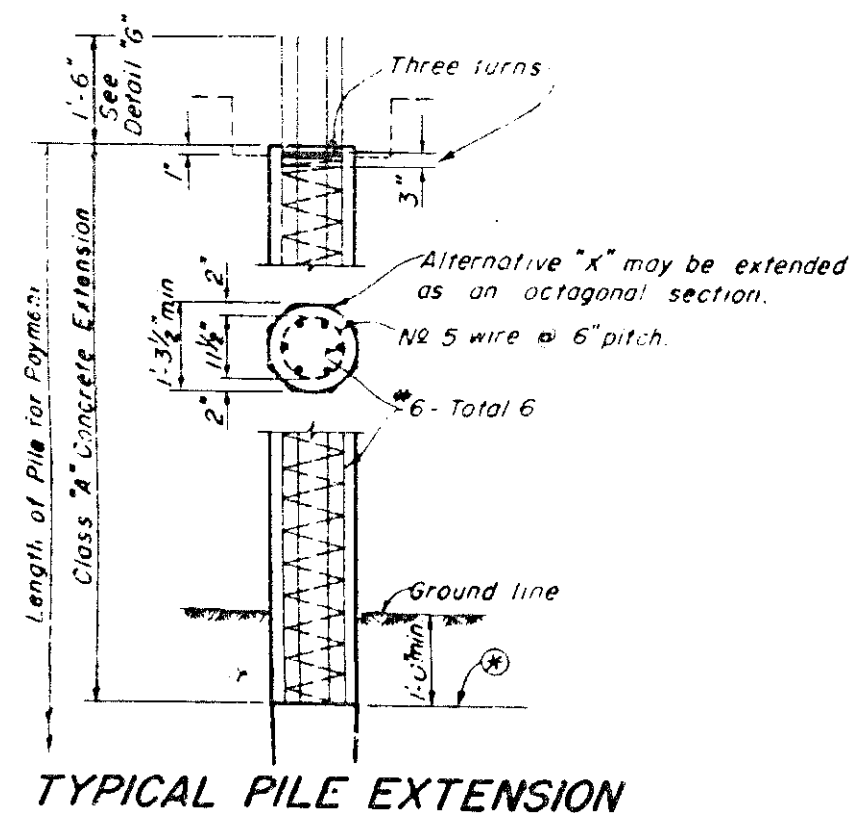
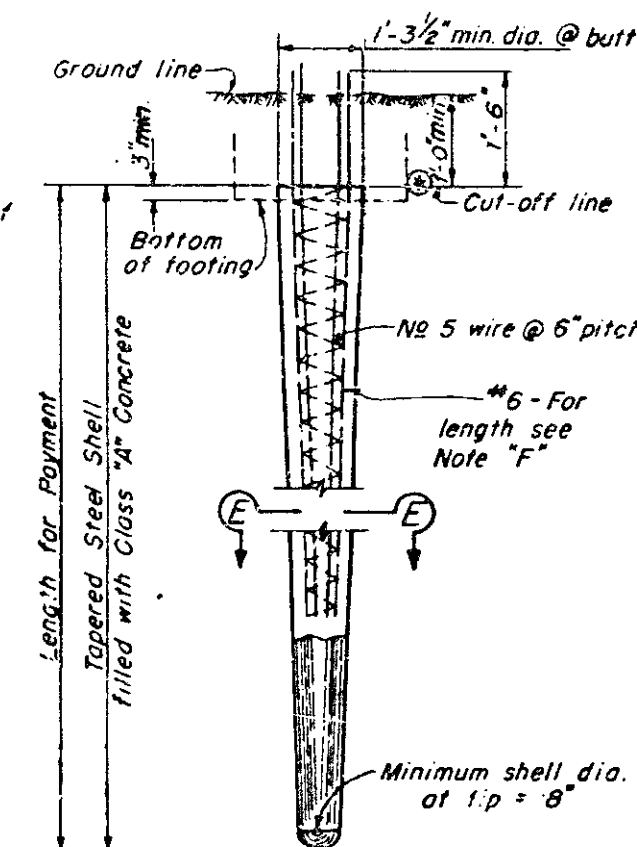
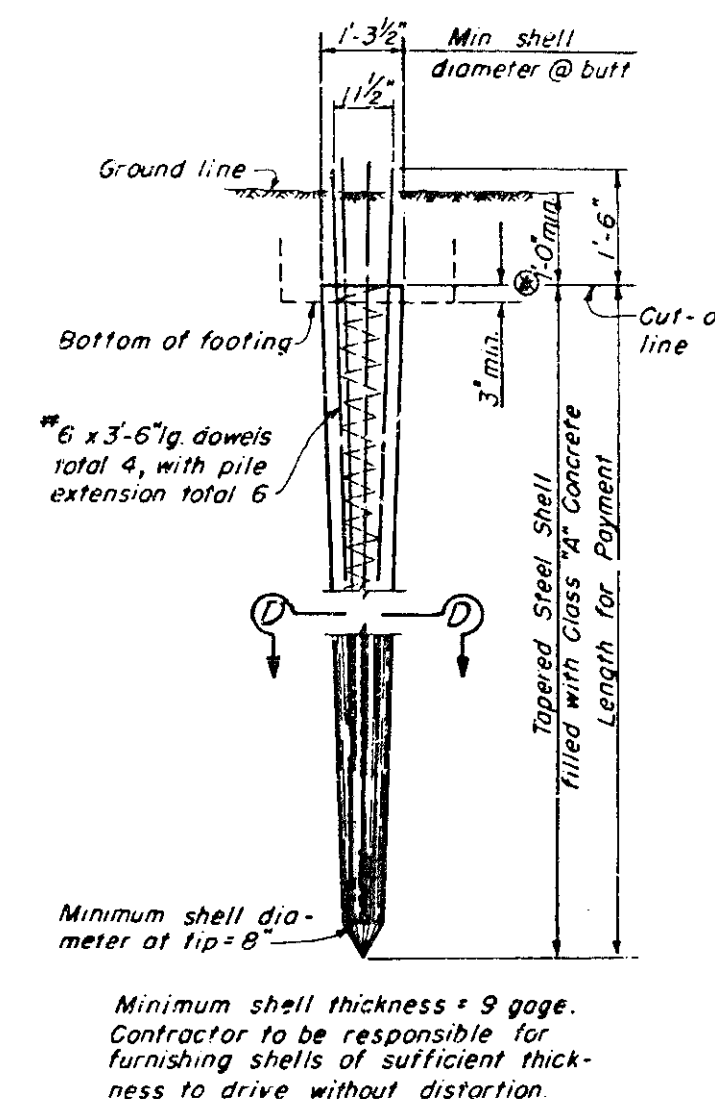
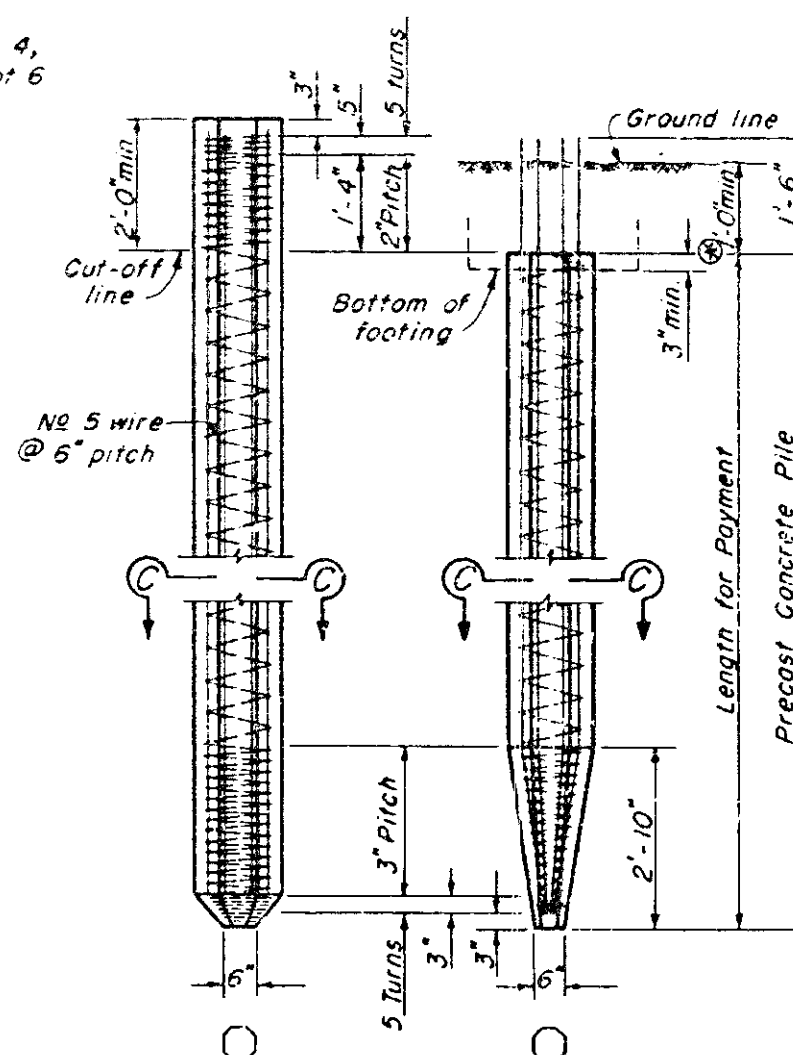
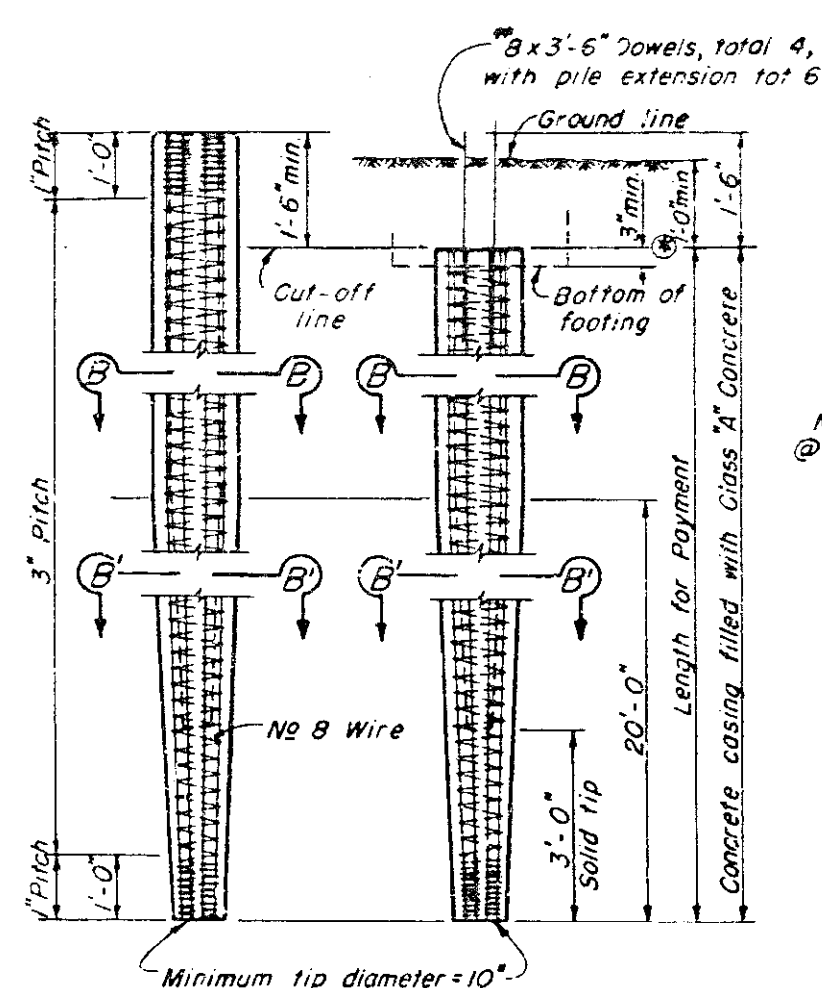
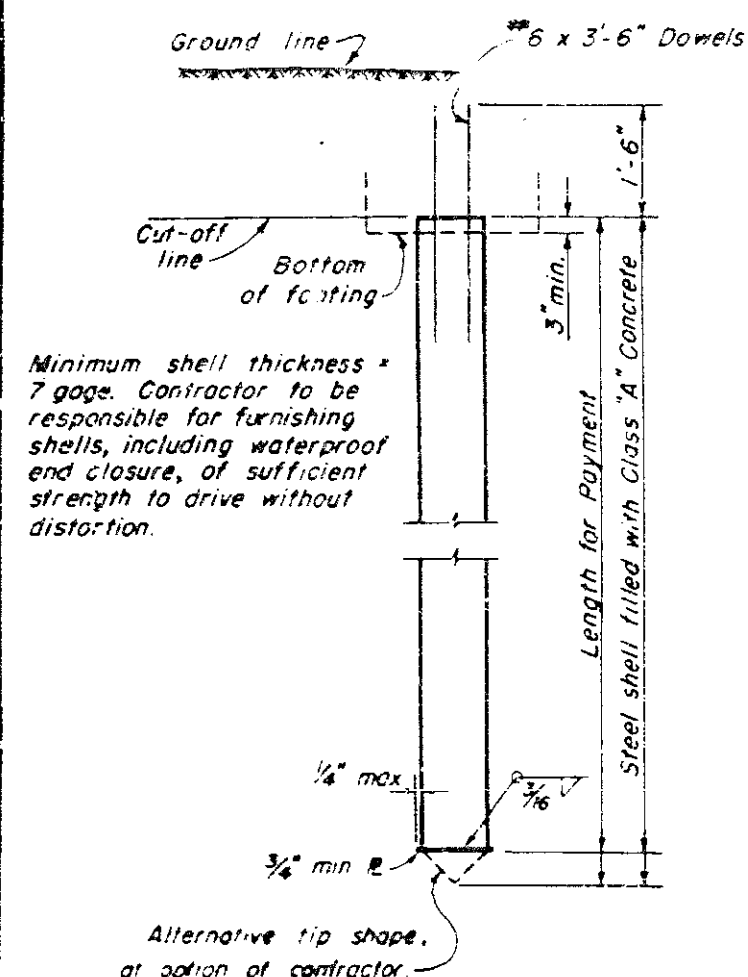
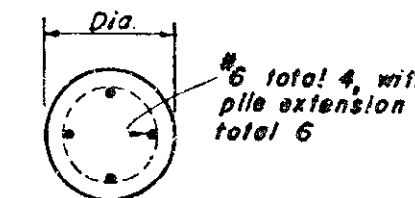
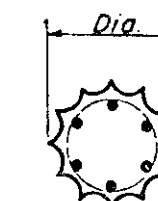
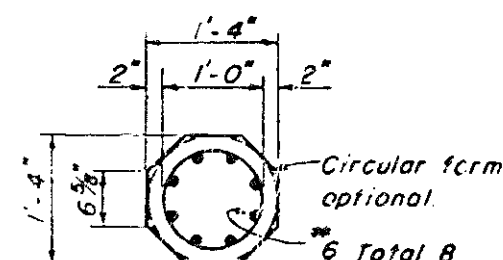
JUN 1 1984

NOTES

0. 0. 39A



As an alternative to the reinforcement shown, Alternative "W" longitudinal reinforcement may consist of steel strands prestressed to have a total remaining force after losses of not less than 67,000 lbs. At no time shall the stress in the steel exceed 0.7 of its ultimate value.



PRESTRESSING NOTE

All steel strand to be prestressed shall be high tensile cold-drawn stress relieved wire strand, of a diameter not to exceed ~~1 1/2~~ 1 1/4", having an ultimate tensile strength of not less than 200,000 p.s.i. and an elongation at rupture of not less than 4% in 24"

PILE NOTES

For Alternatives "W" and "X" the piles may be driven full length and cut off without extension or they may be extended as shown at the option of the Contractor. When Alternatives "U," "V," "Y" & "Z" are extended above ground, the Typical Pile Extension shall be used.

(*) When piles are extended, the bottom of extension shall be located 1'-0" minimum below ground line, unless shown otherwise on the plans.

Note "F": In Alternatives "y" and "z" the length of #6 bars shall be either a minimum of $\frac{1}{3}$ penetration or 12', whichever is the greater. Penetration shall be measured below the lowest of the following controlling elevations:

1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface, when piles are driven through fills.
4. Top of bearing strata, when such strata is shown on the plans.

AS BUILT

ORANGE COUNTY HIGHWAY DEPARTMENT

CERRITOS AVE. 801.5E
ACROSS
COMPUTE 1911.6

PILE DETAIL

SCALE ^{AS} <i>Noted</i>	SHEET 2 OF
----------------------------------	------------



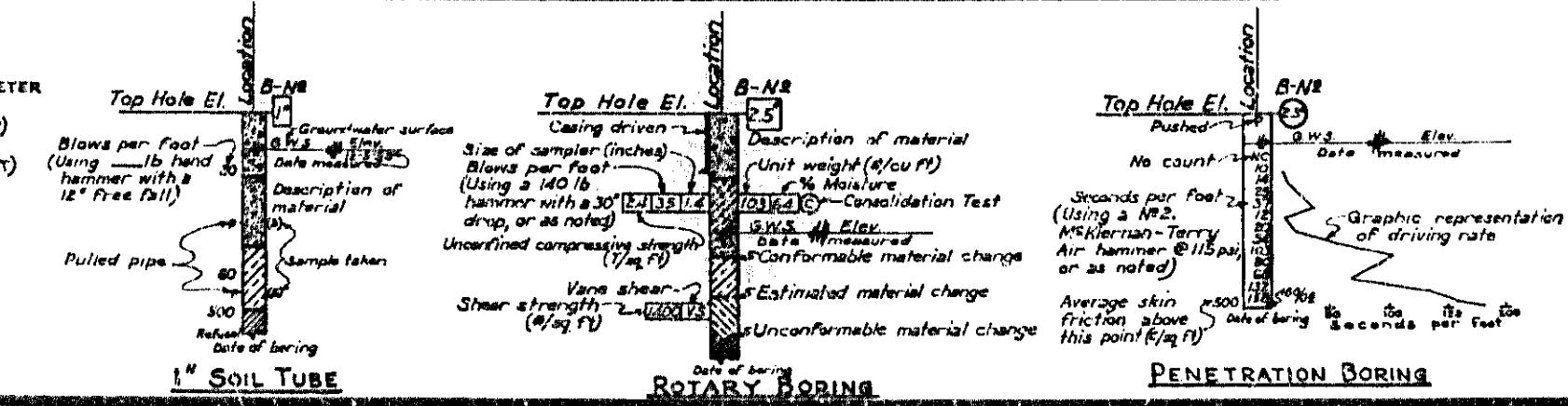
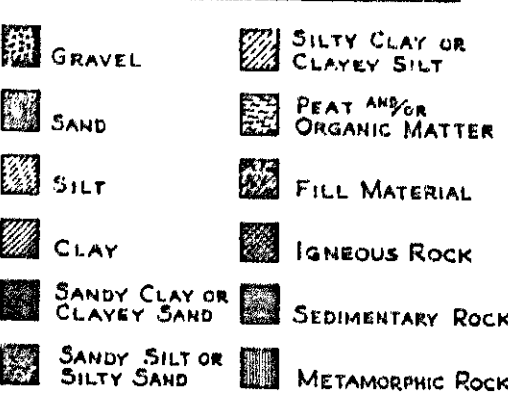
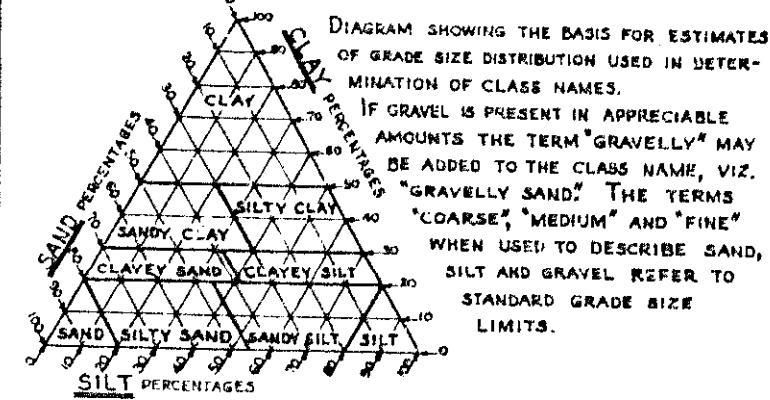
16-19-60

10-26-60

10-15-60

AS BUILT

AS BUILT



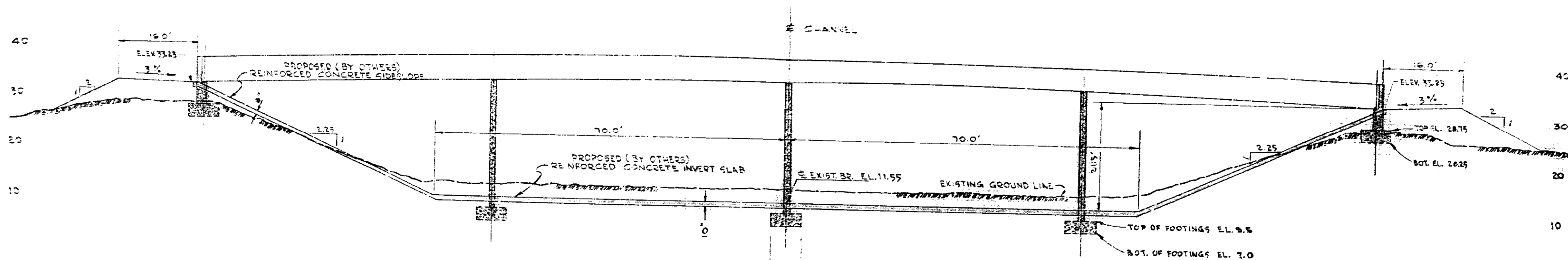
The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

CERRITOS AVE. BRIDGE
ACROSS COYOTE CREEK
LOG OF TEST BORINGS

SCALE	PLAN: 1"=30' PROFILE: 1"=10'	BRIDGE	FILE	DRAWING SHEET NO. OF 1
-------	---------------------------------	--------	------	------------------------

39-12



CROSS SECTION (AT GIRDER D)
1" = 10'

NOTE: CHANNEL INVERT GRADE $S = .00076$

AS BUILT

-45 (TIP ELEVATION - PIERS)
-12 (TIP ELEVATION - TRAINING WALLS)

CORPS OF ENGINEERS BENCHMARK
DISC CC-6 EL. 31.914

Bridge CO-39A
Cerritos Ave. Bridge
Sheet 10 of 10
Red. Ratio 22.5:1
Scale 1" = 10'
Cross Section

MICROFILMED
JUN 14 1962

ORANGE COUNTY HIGHWAY DEPARTMENT	
CHANNEL CROSS SECTION AT CERRITOS AVE. (SPRING STREET) BRIDGE	
COYOTE CREEK CHANNEL	
Scale 1" = 10'-0"	SHEET 10 OF 10

CO 39A