
Bridge Inspection Records Information System

The requested documents have been generated by the BIRIS.

The documents provided are considered confidential and may only be released outside of the department of transportation upon proper execution of the confidentiality agreement.

State of California
Department of Transportation

**Division of Maintenance
Structures Maintenance & Investigations**



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0217M
Facility Carried: IRVINE BLVD
Location : 0.7 MI E JAMBOREE BLVD
City : IRVINE
Inspection Date : 24-JUN-02
Inspection Type

Bridge Inspection Report

Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : RATTLESNAKE CANYON CHAN

CONSTRUCTION INFORMATION

Year Built : 1985 Skew (degrees): 0
Year Widened : N/A No. of Joints : 0
Length (m) : 21.6 No. of Hinges : 0

Description of Structure : Continuous 2-span CIP/RC deck slab with an RC pier wall and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (W) 2 @ 10.4 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 + MOD OR HS - 20 + MOD
Inventory Rating : 32.6 metric tons Calculation Method : LOAD FACTOR
Operating Rating : 53.5 metric tons Calculation Method : LOAD FACTOR
Permit Rating : PPPPP
Posting Load : Type 3 N/A english tons Type 3S2 N/A english tons Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (S) 0.1 m br, 9.9 m, 7.9 m cu med, 9.9 m, 0.1 m br (N)

Total Width : 28.0 m Net Width : 9.90 m No. of Lanes : 6
Rail Description : Type 117 (Metal) Railing Rail Code : 1111
Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : The channel has been removed. The void beneath the bridge has been backfilled with slurry sand.

REVISIONS

ELI:
There is no vertical drop off at the edges of deck. A grassy lawn abuts the bridge. The metal beam guard railings have been removed.

CONDITION OF STRUCTURE

The structure is in good condition.

RECOMMENDATIONS

The structure is a buried hazard, and no longer qualifies as an NBIS bridge. A biennial inspection of the bridge is not required.

SPECIAL FILE WORK

Remove Bridge No. 55C0217M from the SMART files.
Remove Bridge No. 55C0217M from the BIRIS files.
Remove the records for Bridge No. 55C0217M from the active files, and place them in the superseded files.

Bridge No.: 55C0217M Location: 0.7 MI E JAMBOREE BLVD

Inspection Date: 24-JUN-02

ELEMENT LEVEL INSPECTION RATINGS

F#	Elem No.	Element Description	Env	Total Units Quantity	Qty in each Condition State				
					St. 1	St. 2	St. 3	St. 4	St. 5
01 38		Concrete Slab - Bare	2	410 sq.m.	410	0	0	0	0
01 210		Reinforced Conc Pier Wall	2	28 m.	28	0	0	0	0
01 215		Reinforced Conc Abutment	2	56 m.	56	0	0	0	0
01 227		Reinforced Conc Submerged Pile	2	42 ea.	42	0	0	0	0
01 256		Slope Protection	2	2 ea.	2	0	0	0	0

WORK RECOMMENDATIONS - NONE

Inspected By : M. Ogata

M. Ogata
 Registered Civil Engineer



CC : TMRut
 City of Irvine
 EEvans
 HHerr

AUG - 6 2002

Bridge No.: 55C0217M

Location: 0.7 MI E JAMBOREE BLVD

Inspection Date: 24-JUN-02

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0217M
 (5) INVENTORY ROUTE (ON/UNDER) - ON 150 0M023N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 36770
 (6) FEATURE INTERSECTED - RATTLESNAKE CANYON CHAN
 (7) FACILITY CARRIED - IRVINE BLVD
 (9) LOCATION - 0.7 MI E JAMBOREE BLVD
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 43 MIN 26 SEC
 (17) LONGITUDE 117 DEG 46 MIN 26 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN: MATERIAL - CONCRETE CONT
 TYPE - SLAB CODE 2 01
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 2
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE CIP CONCRETE CODE 1
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

***** AGE AND SERVICE *****

(27) YEAR BUILT 1985
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY 1
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 06 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 35000
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 3%
 (19) BYPASS, DETOUR LENGTH 2 KM

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 10.4 M
 (49) STRUCTURE LENGTH 21.6 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 9.9 M
 (52) DECK WIDTH OUT TO OUT 28 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 9.9 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 0 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 9.9 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF - NOT H/RR 0 M
 (55) MIN LAT UNDERCLEAR RT REF - NOT H/RR 0 M
 (56) MIN LAT UNDERCLEAR LT 0 M

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL - NOT APPLICABLE CODE N
 (111) PIER PROTECTION - NOT REQUIRED CODE 1
 (39) NAVIGATION VERTICAL CLEARANCE 0 M
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR 0 M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING = 76.8 *****

STATUS = FUNCTIONALLY OBSOLETE

HEALTH INDEX = 100

***** CLASSIFICATION ***** CODE

(112) NBIS BRIDGE LENGTH - YES Y
 (104) HIGHWAY SYSTEM - NOT ON NHS 0
 (26) FUNCTIONAL CLASS - MINOR ARTERIAL URBAN 16
 (100) DEFENSE HIGHWAY - NOT STRAHNET 0
 (101) PARALLEL STRUCTURE - NONE EXISTS N
 (102) DIRECTION OF TRAFFIC - 2 WAY 2
 (103) TEMPORARY STRUCTURE -
 (105) FEDERAL LANDS HIGHWAY - NOT APPLICABLE 0
 (110) DESIGNATED NATIONAL NETWORK - NOT ON NET 0
 (20) TOLL - ON FREE ROAD 3
 (21) MAINTAIN - COUNTY HIGHWAY AGENCY 2
 (22) OWNER - COUNTY HIGHWAY AGENCY 2
 (37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

***** CONDITION ***** CODE

(58) DECK 7
 (59) SUPERSTRUCTURE 7
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

***** LOAD RATING AND POSTING ***** CODE

(31) DESIGN LOAD - MS - 18 + MOD OR HS - 20 + MOD 6
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 53.5
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 32.6
 (70) BRIDGE POSTING - Equal to or above legal loads 5
 (41) STRUCTURE OPEN, POSTED OR CLOSED - A
 DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL ***** CODE

(67) STRUCTURAL EVALUATION 7
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 8
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 1111
 (113) SCOUR CRITICAL BRIDGES N

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK - CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT M
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT 38000
 (115) YEAR OF FUTURE ADT 2010

***** INSPECTIONS *****

(90) INSPECTION DATE 06/02 (91) FREQUENCY 24 MO
 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO -1 MO A)
 B) UNDERWATER INSP - NO -1 MO B)
 C) OTHER SPECIAL INSP - NO -1 MO C)

AUG - 6 2002

State of California
Department of Transportation
Bridge Records Locator

Bridge No 55C-0217M

Name RATTLESNAKE CANYON CHAN

Location 12-Ora-CS
Dist Co Rte P M City

This bridge is located in the Superseded Files

All report records for the bridge are filed in that reference location


M. Ogata

MO:ms
c: TMRut



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0217M
Facility Carried: IRVINE BLVD
Location : 0.7 MI E JAMBOREE BLVD
City : IRVINE
Inspection Date : 27-AUG-01

Bridge Inspection Report

Inspection Type

Routine	Group A	Underwater	Special	Other
☐	☐	☐	☐	☒

Name : RATTLESNAKE CANYON CHAN

CONSTRUCTION INFORMATION

Year Built : 1985
Year Widened : N/A
Length (m) : 21.6

Skew (degrees): 0
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Continuous 2-span CIP/RC deck slab with an RC pier wall and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (W) 2 @ 10.4 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 + MOD OR HS - 20 + MOD
Inventory Rating : 32.6 metric tons
Operating Rating : 53.5 metric tons
Permit Rating : PPPPP
Posting Load : Type 3 N/A english tons Type 3S2 N/A english tons Type 3-3 N/A english tons

Calculation Method : LOAD FACTOR
Calculation Method : LOAD FACTOR

DESCRIPTION ON STRUCTURE

Bridge width : (S) 0.1 m br, 9.9 m, 7.9 m med, 9.9 m, 0.1 m br (N)
Total Width : 28.0 m Net Width : 19.80 m No. of Lanes : 4
Rail Description : Type 117 (Metal) Railing Rail Code : 1111
Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : The channel has been removed. The void beneath the bridge has been backfilled with slurry sand.

HISTORY

The channel beneath the structure has been removed. As described by previous maintenance records, the void beneath this bridge has been backfilled with slurry sand. The structure is now considered to be a buried hazard. (The Old Bridge Number was 55C-0217.) Also, there is no history of scour at this bridge.

REVISIONS

The National Bridge Inventory Item 113 Code has been revised from 6 to N.

SCOUR

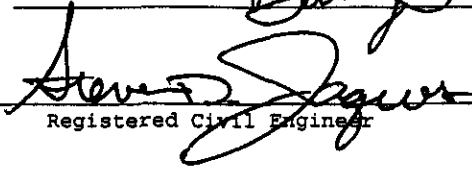
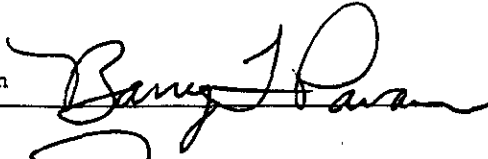
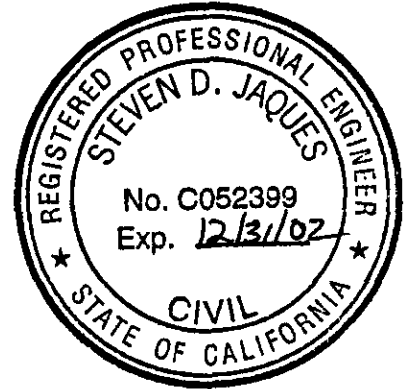
This report addresses hydraulic issues only. The structure's scour potential has been assessed in accordance with the Federal Highway Administration Technical Advisory T5140.23, "Evaluating Scour at Bridges". The National Bridge Inspection Item 113 Code, "Vulnerability to Scour", has been changed to N: "Bridge not over waterway."

This evaluation is based on an office review of maintenance records and as-built plans. For obvious reasons, a channel cross-section was not measured for this scour evaluation. This structure is not scour critical because the waterway has been removed and void beneath the bridge has been backfilled with sand slurry.

Bridge No.: 55C0217M Location: 0.7 MI E JAMBOREE BLVD

Inspection Date: 27-AUG-01

Inspected By : Barry L. Pavan


Registered Civil Engineer

CC : TMRut, SM&I
City of Irvine
Steve Jaques, Hydraulics
B. Phan, ABME South



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0217M
Facility Carried: IRVINE BLVD
Location : 0.7 MI E JAMBOREE BLVD
City : IRVINE
Inspection Date : 13-JUN-01

Inspection Type

Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Bridge Inspection Report

Name : RATTLESNAKE CANYON CHAN

CONSTRUCTION INFORMATION

Year Built : 1985 Skew (degrees): 0
Year Widened : N/A No. of Joints : 0
Length (m) : 21.6 No. of Hinges : 0
Description of Structure : Continuous 2-span CIP/RC deck slab with an RC pier wall and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (W) 2 @ 10.4 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 + MOD OR HS - 20 + MOD
Inventory Rating : 32.6 metric tons Calculation Method : LOAD FACTOR
Operating Rating : 53.5 metric tons Calculation Method : LOAD FACTOR
Permit Rating : PPPPP
Posting Load : Type 3 N/A english tons Type 3S2 N/A english tons Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (S) 0.1 m br, 9.9 m, 7.9 m med, 9.9 m, 0.1 m br (N)
Total Width : 28.0 m Net Width : 19.80 m No. of Lanes : 4
Rail Description : Type 117 (Metal) Railing Rail Code : 1111
Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : The channel has been removed. The void beneath the bridge has been backfilled with slurry sand.

REVISIONS

The channel beneath the structure has been removed. The void beneath the bridge has been backfilled with slurry sand. The structure is now considered to be a buried hazard. (New): Bridge No. 55C0217M, (Old): Bridge No. 55C0217.

CONDITION OF STRUCTURE

The structure is in good condition.

SPECIAL FILE WORK

Change the Bridge No. from 55C0217 to 55C0217M in the SMART database.

ELEMENT LEVEL INSPECTION RATINGS									
F#	Elem	Element Description	Env	Total Units	Qty in each Condition State				
	No.			Quantity	St. 1	St. 2	St. 3	St. 4	St. 5
01 38		Concrete Slab - Bare	2	410 sq.m.	410	0	0	0	0
01 210		Reinforced Conc Pier Wall	2	28 m.	28	0	0	0	0
01 215		Reinforced Conc Abutment	2	56 m.	56	0	0	0	0
01 227		Reinforced Conc Submerged Pile	2	42 ea.	42	0	0	0	0
01 256		Slope Protection	2	2 ea.	2	0	0	0	0
01 338		Metal Railing (W8X31 Posts)	2	60 m.	60	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0217M

Location: 0.7 MI E JAMBOREE BLVD

Inspection Date: 13-JUN-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut
City of Irvine

Bridge No.: 55C0217M

Location: 0.7 MI E JAMBOREE BLVD

Inspection Date: 13-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0217M
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 50 0M023N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 36770
 (6) FEATURE INTERSECTED - RATTLESNAKE CANYON CHAN
 (7) FACILITY CARRIED - IRVINE BLVD
 (9) LOCATION - 0.7 MI E JAMBOREE BLVD
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 43 MIN 26 SEC
 (17) LONGITUDE 117 DEG 46 MIN 26 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN: MATERIAL - CONCRETE CONT
 TYPE - SLAB CODE 2 01
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 2
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE CIP CONCRETE CODE 1
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

***** AGE AND SERVICE *****

(27) YEAR BUILT 1985
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY 1
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 04 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 35000
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 3%
 (19) BYPASS, DETOUR LENGTH 2 KM

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 10.4 M
 (49) STRUCTURE LENGTH 21.6 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 19.8 M
 (52) DECK WIDTH OUT TO OUT 28 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 19.5 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 0 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 19.8 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF - NOT H/RR 0 M
 (55) MIN LAT UNDERCLEAR RT REF - NOT H/RR 0 M
 (56) MIN LAT UNDERCLEAR LT 0 M

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL - NOT APPLICABLE CODE N
 (111) PIER PROTECTION - NOT REQUIRED CODE 1
 (39) NAVIGATION VERTICAL CLEARANCE 0 M
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR 0 M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING = 96.7 *****

STATUS =

HEALTH INDEX = 100

***** CLASSIFICATION ***** CODE

(112) NBIS BRIDGE LENGTH - YES Y
 (104) HIGHWAY SYSTEM - NOT ON NHS 0
 (26) FUNCTIONAL CLASS - MINOR ARTERIAL URBAN 16
 (100) DEFENSE HIGHWAY - NOT STRAHNET 0
 (101) PARALLEL STRUCTURE - NONE EXISTS N
 (102) DIRECTION OF TRAFFIC - 2 WAY 2
 (103) TEMPORARY STRUCTURE -
 (105) FEDERAL LANDS HIGHWAY - NOT APPLICABLE 0
 (110) DESIGNATED NATIONAL NETWORK - NOT ON NET 0
 (20) TOLL - ON FREE ROAD 3
 (21) MAINTAIN - COUNTY HIGHWAY AGENCY 2
 (22) OWNER - COUNTY HIGHWAY AGENCY 2
 (37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

***** CONDITION ***** CODE

(58) DECK 7
 (59) SUPERSTRUCTURE 7
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

***** LOAD RATING AND POSTING ***** CODE

(31) DESIGN LOAD - MS - 18 + MOD OR HS - 20 + MOD 6
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 53.5
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 32.6
 (70) BRIDGE POSTING - Equal to or above legal loads 5
 (41) STRUCTURE OPEN, POSTED OR CLOSED - A
 DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL ***** CODE

(67) STRUCTURAL EVALUATION 7
 (68) DECK GEOMETRY 7
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 8
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 1111
 (113) SCOUR CRITICAL BRIDGES 6

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK - CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT M
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT 38000
 (115) YEAR OF FUTURE ADT 2010

***** INSPECTIONS *****

(90) INSPECTION DATE 06/01 (91) FREQUENCY 24 MO
 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO -1 MO A)
 B) UNDERWATER INSP - NO -1 MO B)
 C) OTHER SPECIAL INSP - NO -1 MO C)

Bridge Number 55C-217

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

Location 12 - Ora - FAU M023-CR
Dist.-Co.-Rte.-City

Date of Investigation July 19, 1995

Name RATTLESNAKE CANYON CHANNEL (Irvine Boulevard, 0.7 mile east of Jamboree Road)

CONDITION RATINGS:

Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

7

SCOUR CRITICAL:

A scour rating of A3 is appropriate.

CONDITION OF STRUCTURE:

East end of south bridge rail, two meters long has broken off.

Rocks, sand and tree limbs litter the bottom of channel.

There are few longitudinal cracks on deck.

Condition of structure is good.

WORK RECOMMENDED:

None.

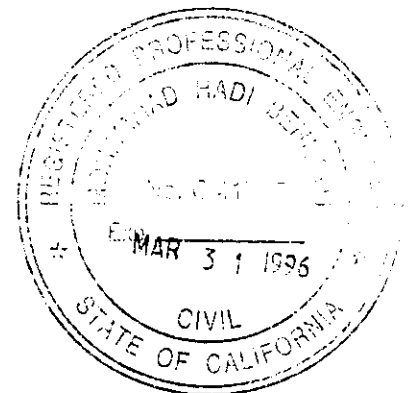
ENCROACHMENT:

One 0.30 m diameter steel pipe suspended in soffit, 2.5 meters from north edge of deck.

M. Hadi Behrooj

By

G. P. Balinghasay



GPB:ms

cc: CDHarris
Orange County
WLindsey

INFORMATION ONLY - NOT FOR UPDATE

SCOUR CRITICAL	NO
CATEGORY A	NO
FRACTURE CRITICAL	NO
ELIGIBLE FOR RAIL UPGRADE	NO
UNDERWATER INSPECTION	NO

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
NAME	

[illegible]

BY:

Bridge No. 55C-217

Name RATTLESNAKE CANYON CHANNEL (Irvine Boulevard, 0.7 mile east of Jamboree Road) Location 12-Ora-FAU M023-CR Dist.-Co.-Rte.-City

SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-19-95	One 0.30 m diameter steel pipe suspended in soffit, 2.5 meters from north edge of deck.

HBD M 30

SUPPLEMENTARY BRIDGE REPORT
DS-M19 (REV. 8/92)

Bridge Number 55C-217

TYPE OF INVESTIGATION/REPORT

BIENNIAL	<u>X</u>	DAMAGE	___
CATEGORY A	___	OTHER	___
UNDERWATER	___	OFFICE	___

Location 12 - Ora - FAU M023-CR
Dist.-Co.-Rte.-City

Date of Investigation April 15, 1993

Name RATTLESNAKE CANYON CHANNEL (Irvine Boulevard, 0.7 mile east of Jamboree Road)

CONDITION RATINGS:

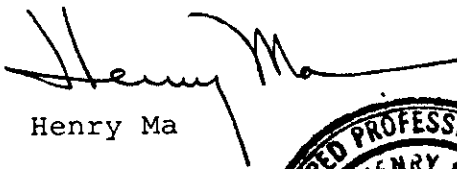
Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

7

CONDITION OF STRUCTURE:

Condition of the structure is good.


Henry Ma

HM:cd

cc: INagai (2)
County of Orange



PONTIS DATA FORM - PIA

INFORMATION ONLY - NOT FOR UPDATE	
SCOUR CRITICAL	NO
CATEGORY A	NO
FRACTURE CRITICAL	NO
ELIGIBLE FOR RAIL UPGRADE	NO
UNDERWATER INSPECTION	NO

DISTRICT	12
COUNTY	ORA
ROUTE	***
POSTMILE	*****
NAME	

[illegible]

H. MA

BY:

BRIDGE REPORT

14W13

Bridge No. 55C - 217

DS-MSB (REV. 1/91)

Location 12 - Ora - FAU M023-CR
Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 19, 1991

Name RATTLESNAKE CANYON CHANNEL (Irvine Boulevard, 0.7 mile east of Jamboree Road)

Lat. 33° - 43.4'N Long. 118° - 46.4'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1985 By County of Orange Contract No. Unknown

Designed by: UMA/RGB Engineering, Inc. Plans Avail. @ DOS

Description: 2 span continuous CIP RC slab supported by RC pier wall and open end RC diaphragm abutments, all on concrete piles.

Spans (W) 2 @ 34' (E)

Length 71' NBIS Bridge Length Yes Skew None

Number Of Intermediate Joints: @Hinges None @Bents None

Maximum Column/Pier Height: (Less than 20') X (20'-29') (30' & Over)

Design Live Load HS20-44 & Alt & Permit Design Method Load Factor

DESCRIPTION - ON STRUCTURE

Bridge Width (S) 0.3'br, 32.5', 26'm, 32.5', 0.3'br (N)

Total Width 92' Net Width 65' Lanes 4 Tracks None

Median Raised island Rail Type 117

1111

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 64'

Deck Type 1 Wearing Surface/Prot. Sys. 100 Concrete/none

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

Clearances: Road: Vert. Horiz.Lt. ; Rt.

Lanes Tracks

Facilities Crossed Rattlesnake Canyon Channel (F26)

April 19, 1991

DESCRIPTION - HYDRAULICS

Channel Unimproved earth ditch

Navigable: Yes ☐ No ☒ Clearances: Vert.

Horiz.

Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	35,000	1989	N	
Average Daily Traffic (Future) :	38,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	3% Est		N	
Bypass Detour Length	1 mile		N	
Shell Route:	No		No	
Functional Classification :	14		N	
LOAD RATINGS:	Inventory HS 20	Operating HS 33		
	Permit PPPPP	Computation Method Min By Design		

CONDITION RATINGS:

Deck	8	Superstructure	8	Substructure	8
Channel & Channel Protection	7	Culvert	N	Widenable	Yes

APPRAISAL RATINGS:

Waterway Adequacy	8	Approach Roadway Alignment	8
-------------------	---	----------------------------	---

Date of Revisions

CONDITION OF STRUCTURE:

Metal tube bridge rail is broken at northwest and southeast ends from traffic damage.

There are a few minor longitudinal cracks in the concrete bridge deck.

Condition of the structure is good.

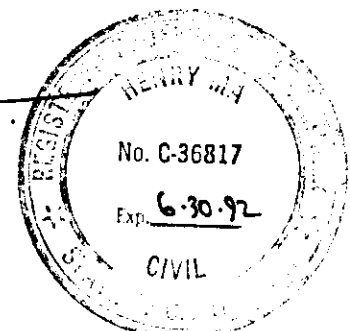
ENCROACHMENT:

12" welded steel pipe suspended under soffit about 8' from north fascia.

Henry Ma

HM:ms

cc: INagai (2)
County of Orange



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DS-M19A (REV. 6/79)

Bridge No. 55C-241
Location 12-Ora-FAU M023-CR
Dist - Co - Rte - PM - City

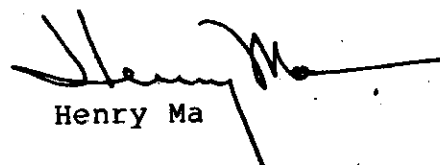
Date of Office Report: April 11, 1991

Name LA COLINA-REDHILL CHANNEL (Irvine Boulevard, 0.25 mile southeast of Redhill Avenue)

In accordance with the Office of Structures Maintenance and Investigations memo dated June 19, 1985, the following is applicable to this structure:

	<u>YES</u>	<u>NO</u>
RETAIN IN COMPUTER	<u> </u>	<u> X </u>
SEND TO FHWA	<u> </u>	<u> X </u>
INSPECTION FREQUENCY =	<u> NONE </u>	

Remove all records, diagrams and photographs from the active file and place in the superseded file.


Henry Ma

HM:ms
cc: INagai (2)

SUPPLEMENTARY BRIDGE REPORT
DS-M19 (REV. 8/88)

Bridge No. 55C-217

Location 12-Ora-FAU M023-CR
Dist. Co. Rte. PM. City

Date of Investigation 4-12-89

Name RATTLESNAKE CANYON CHANNEL (Irvine Blvd., 0.7 mile east of Jamboree Blvd.)

CONDITION RATING:

Deck 7 Superstructure 8 Substr.&Pipes 8

Channel & Channel Protection 8 Culvert N

Widenable? Yes

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE

CATEGORY A OTHER

UNDERWATER OFFICE

CONDITION OF STRUCTURE:

There is light longitudinal cracking in the concrete bridge deck.

Terminal section (5 LF±) of one of the two tubular (4" x 4" structural tube) bridge rails has sheared-off at northwest corner of the bridge.

Condition of the structure is good.

REVISION:

Location: 12-Ora-FAU M023-CR

Condition Rating: Deck - 7

WORK RECOMMENDED:

Repair bridge rail at northwest corner.

MSCL

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

2 RC open end diaphragm abutments on concrete piles.

1 RC pier wall on concrete piles.

Henry Ma

HM/cd

cc: INagai (2)
County of Orange (2)



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-QS M19 (REV. 1/74)

Bridge No. 55C-217
Location 7-Ora-FAU M023-CR
Dist - Co - Pto - Pst - City
Date of Investigation April 27, 1987

Name RATTLESNAKE CANYON CHANNEL (Irvine Blvd., 0.7 mile E. of Jamboree Blvd.)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 8 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required By County Yes ☐ No ☒

PRIORITY

A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

REVISION:

Name: RATTLESNAKE CANYON CHANNEL (Irvine Blvd., 0.7 mile E. of Jamboree Blvd.)

Condition Rating: Deck - 8
Superstructure - 8
Substructure & Pipes - 8
Appraisal Rating: Overall - 8

CONDITION OF STRUCTURE:

Overall condition of the structure is good.

RECOMMENDED POSTING:

None

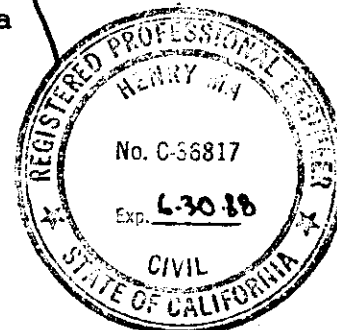
WORK RECOMMENDED:

None

HM:pht

cc: INagai (2)
Orange County (2)

Henry Ma



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE REPORT
DS-M58 (REV. 1/81)

This report supersedes
all previous reports for
Br. No. 55C-217

SEE REVISED

ORIGINAL REPORT

Bridge No. 55C-217

Other No. _____

P.U.C. No. _____

Location 7-Ora-FAU M023-CR
Dist - Co - Rte - PM - City

Date of Investigation January 16, 1986

Name RATTLESNAKE CANYON CHANNEL (Irvine Blvd. 0.7 mile east of Myford Rd)

Lat. 33°-43.4'N Long. 118°-46.4'W

STRUCTURAL DATA AND HISTORY

Year Built 1985 By Orange County Contract No. Unknown

Date of Revisions _____

Designed by: B.D. ☐ UMA/RGB Engineering, Inc. Plans Avail. ☐ B.D.

Description: 2 span RC slab on RC pier wall and RC diaphragm
abutments, all on concrete piles.

Spans 2 @ 34' c/c

Length 71' Skew None Design LL HS20-44 & Alt. & permit Design Loads

Ratings: Inventory HS20/LF Min Operating HS 33/LF Min Permit PPPPP/LF
By Design By Design By Design

DESCRIPTION - ON STRUCTURE (Shell Rte.: Yes ☐ No ☒)

Bridge Width (S) 0.33' (tube rail), 32.5', 26' (m), 32.5', 0.33' (Tube rail) (N)

Total Width 92' Lanes 4 Tracks None

Median Raised curbed island Rail Type 117 (tubular steel) (1111)

Vert. Clearance over deck Unimpaired Appr. Rwy. Width 94'

Wearing Surface None Deck Prot. Sys. None

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE (Shell Rte.: Yes ☐ No ☒)

Roadway Section None

Clearances: Vert. _____ Horiz.: _____ Lt. _____ Rt. _____

Lanes _____ Tracks _____ Pumpplant: None ☒ See Br. No. _____

Facilities Crossed Rattlesnake Canyon Channel (F26)

cc:

DESCRIPTION - HYDRAULICS

Channel Unimproved trapazoidal earth - Rock slope protection under structure

Navigable: Yes ☐ No ☒ Clearances: Vert. _____ Horiz. _____

MAINTENANCE

Custodian Orange County Owner Orange County

**ORIGINAL
CONDITION RATING**

Deck 9
Superstructure 9
Substructure & Pipes 9
Channel & Channel Protection 8
Retaining Walls N
Approach Rdwy. Alignment 8
Estimated Remaining Life 50

**ORIGINAL
APPRAISAL**

Overall 9
Deck Geometry 7
Underclearances Vert. N
Horiz. N
Safe Load Capacity 9
Waterway Adequacy 8
Approach Rdwy. Alignment 9

Widenable? Yes ☒ No ☐ Conditional ☐

Average Daily Traffic & Year 16,000 (1985)

Bypass Detour Length 3 miles

Action Required:

Yes ☐ No ☒

Posting Required:

None ☒ Load ☐

Speed ☐

Seismic Retrofit : Not required.

ENCROACHMENT: 12" steel pipe through abutments hung from soffit 8' from north fascia.

LOAD CAPACITY: The load ratings shown are the minimum load ratings the structure is designed to carry.

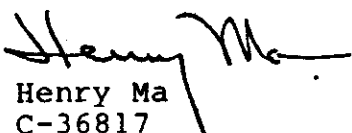
DISCUSSION: This structure replaces a previous structure (RCB), which has been removed, at the same location. The same Bridge No.55C-217 is retained for the new structure.

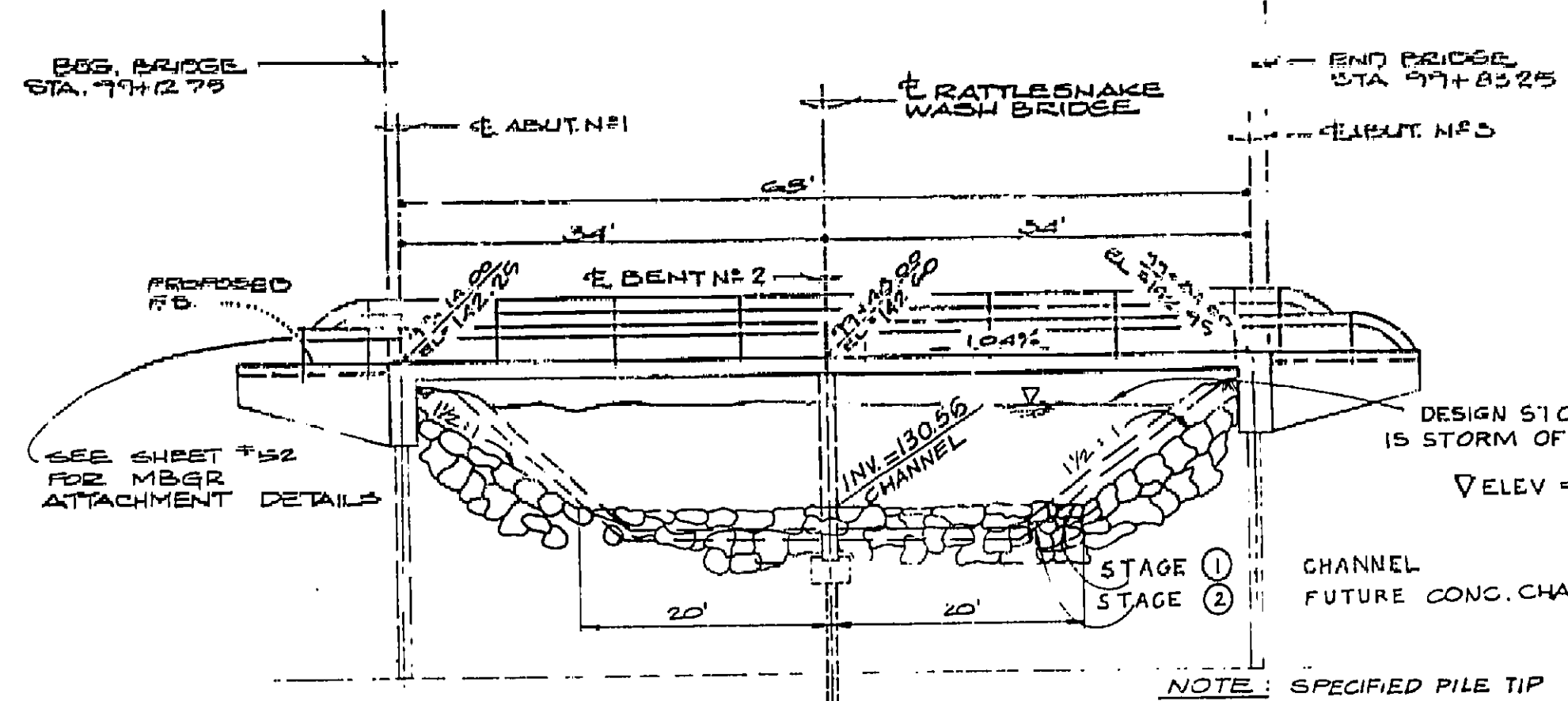
FILE WORK: Remove all previous records of this bridge from bridge book and transfer to Superseded Files.

CONDITION OF STRUCTURE: This is a new structure and is in good condition.

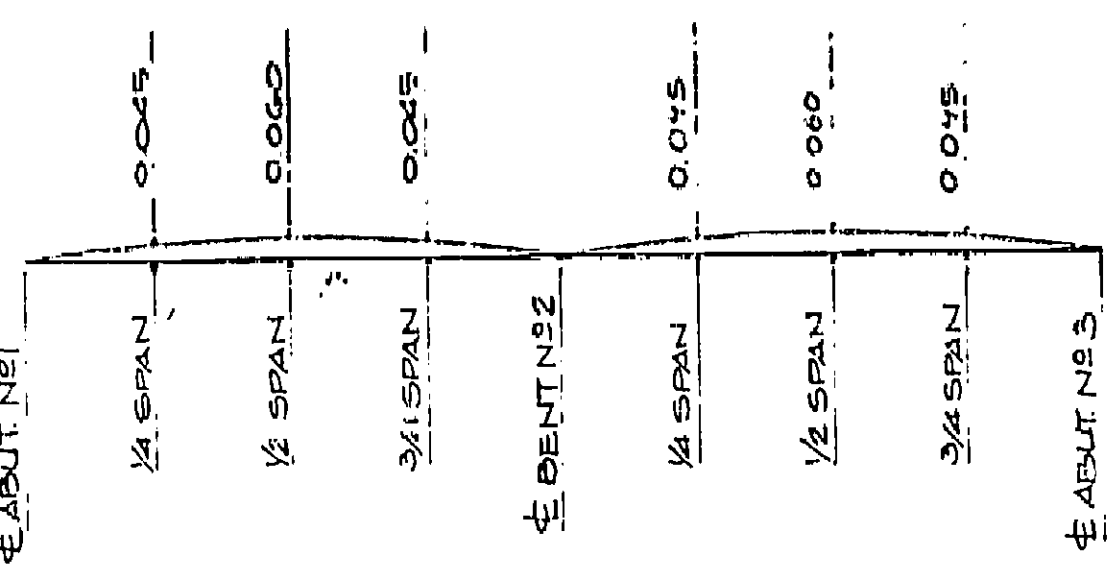
WORK RECOMMENDED: None

HM:pdh
cc: INagai (2)
Orange County (2)


Henry Ma (2)
C-36817

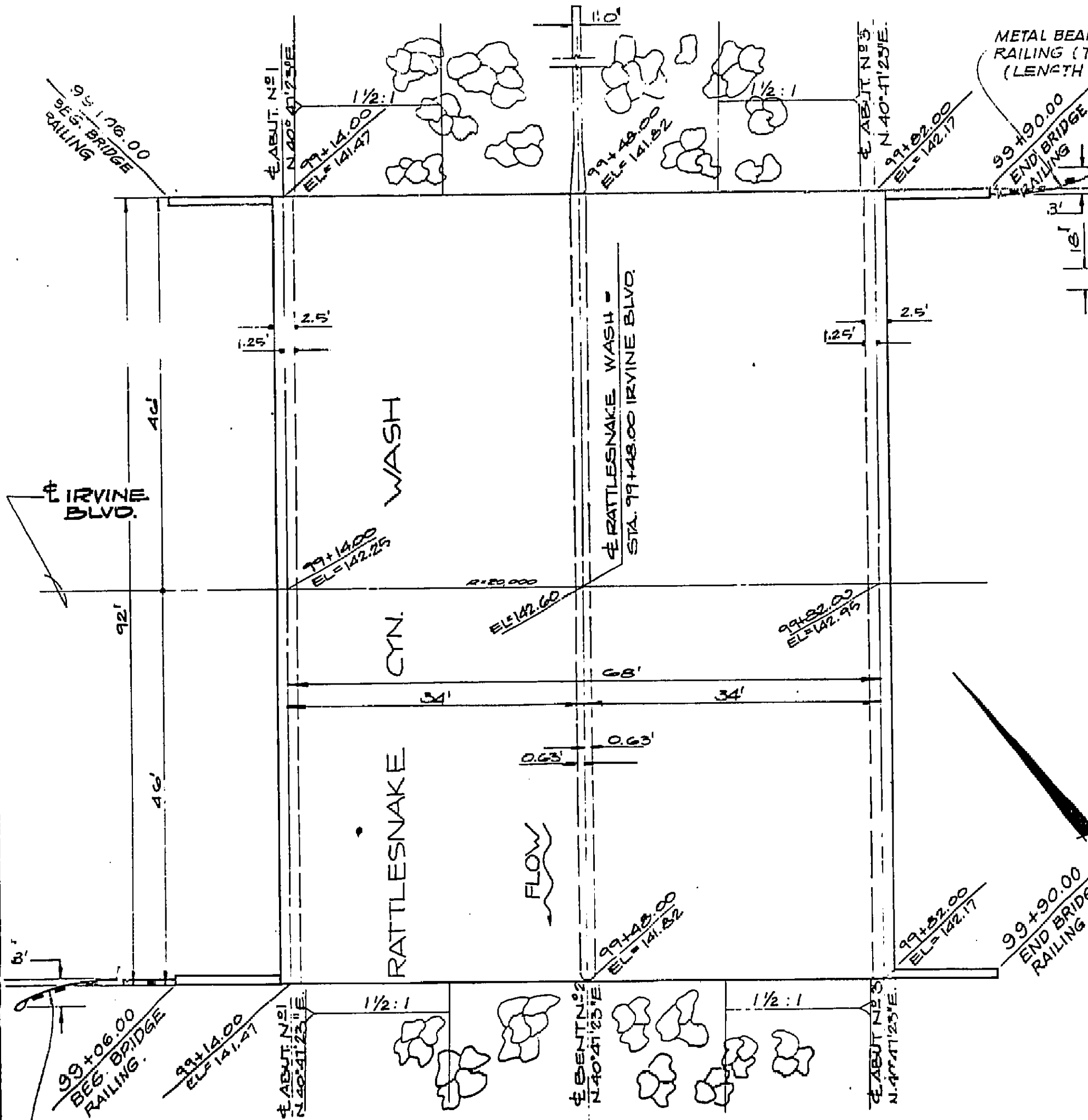


ELEVATION
NOT TO SCALE



CAMBER DIAGRAM
NOT TO SCALE

NOTE:
CAMBER DIAGRAM DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT. THE TOTAL DEFLECTION WILL BE REACHED ABOUT FOUR YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL, DIVIDE THOSE SHOWN BY FOUR. THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.



PLAN
SCALE: 1" = 50'

- NOTES:**
- STATIONING IS ALONG C. OF IRVINE BLVD.
 - ALL ELEVATIONS ARE TOP OF CONC. SLAB
 - FOR SLAB DETAILS SEE SHEET NO. 50 & 51

CURVE DATA

B.C. STA. 99+09.16
E.C. STA. 102+75.48
R = 20,000'
Δ = 1° 02' 58"
L = 366.33'
T = 183.17'

STAGE	TYPE OF STORM	DISCHARGE cfs
ONE	STORM OF RECORD	3590
	Q ₅₀	5000
	BASE FLOOD Q ₁₀₀	5500
	OVERTOPPING FLOOD	5200
TWO	Q ₅₀	6300
	BASE FLOOD Q ₁₀₀	7000

AS BUILT PLANS
Contract No. Unknown
Date Completed 12-8-86
Document No. 70008548

GENERAL NOTES

SPECIFICATIONS

DESIGN
AS BUILT, STC. SPEC. DATED 1971 WITH SUBSEQUENT REVISIONS AND CALIFORNIA DEPT. OF TRANSPORTATION BRIDGE PLANNING AND DESIGN MANUAL.

CONSTRUCTION
STANDARD SPECIFICATIONS, CALIFORNIA, DEPT. OF TRANSPORTATION, DATED JAN. 1981 AND SPECIAL REVISIONS.

LIVE LOADING
AS 30.14 AND ALTERNATIVE 4 CALIFORNIA PERMIT DESIGN LOADS

PILE LOADING
45 TONS TYPE CLASS 45

REINFORCEMENTS
EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT EXCEPT AS SHOWN. BACKING FOR WELDS IS FOUR DIAMETERS EXCEPT AS NOTED. WHERE REINFORCEMENT BARS ARE SPICED, BARS #8 AND SMALLER LAP 45 DIAMETERS OF SMALLER BAR JOINED, BARS #10+11 LAP 60 DIAMETERS OF SMALLER BAR JOINED.

CONCRETE
CLASS 'A' (564 lb.) TYPE IP (M3) OR TYPE II MOD. PORTLAND CEMENT. DECK SLAB CLASS 'D' 658 (7500 PSI)

UNIT STRESSES

PILE CAP (ABUT.)	f _c = 5250 PSI @ 28 DAYS
	f _y = 60,000 PSI
PILES	f _c = 6,000 PSI
	f _y = 210,000 PSI STRANDS
	f _y = 60,000 PSI

ESTIMATED QUANTITIES

STRUCTURE EXCAVATION	251 C.Y.
STRUCTURE BACKFILL	74 C.Y.
(F) STRUCTURE CONCRETE	458 C.Y.
(F) REINFORCING STEEL	102,882 LBS.
FURNISH CONCRETE PILES	1026 L.F.
(F) DRIVE CONCRETE PILES	171 L.F.
(F) BRIDGE RAILING TYPE 117	171 L.F.
(S) SLOPE PROTECTION ROCK CL. 1/4 TON METHOD 'D' PLACEMENT	212 TONS
TEMPORARY RAILING TYPE K	120 L.F.
METAL BEAM GUARD RAILING	120 L.F.

SETTLEMENT PIN ELEVATIONS		
LEFT SIDE (DECK PIN)	LOCATION'S	RIGHT SIDE (DECK PIN)
	ABUTMENT #1	
	SPAN #1	
	PIER #2	
	SPAN #2	
	ABUTMENT #3	
DESCRIPTION OF DATUM:		

NOTE:
FOR USE OF PROJECT ENGINEER UPON COMPLETION OF CONSTRUCTION.

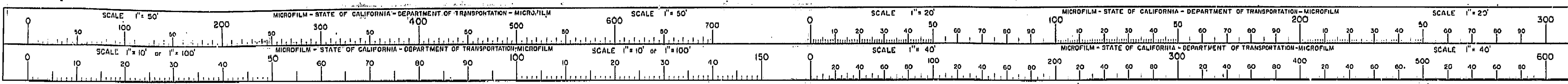
1/2" = 0' 1" = 2'
3 inches on original drawing

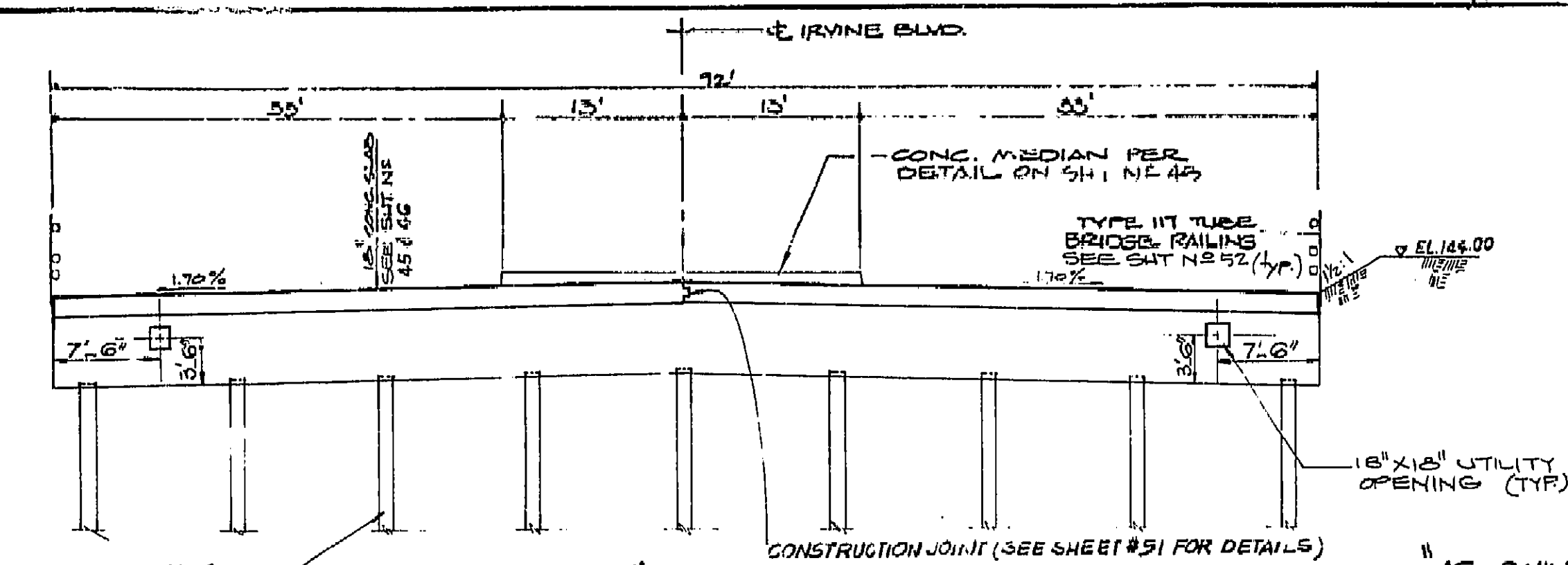
ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
IRVINE BLVD. BRIDGE OVER RATTLESNAKE CYN. WASH 596-217	
GENERAL PLAN	
CHECKED BY: <u>[Signature]</u> DATE: <u>12-8-86</u>	DESIGNED BY: <u>[Signature]</u> DATE: <u>12-8-86</u>
PREPARED UNDER: <u>Contract 70008548</u> SUPERVISOR OF: <u>CONSTRUCTION</u>	SHEET: <u>41</u> SCALE: <u>1" = 50'</u> ASSIGNED: <u>[Signature]</u>

DR. 3 (13966)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

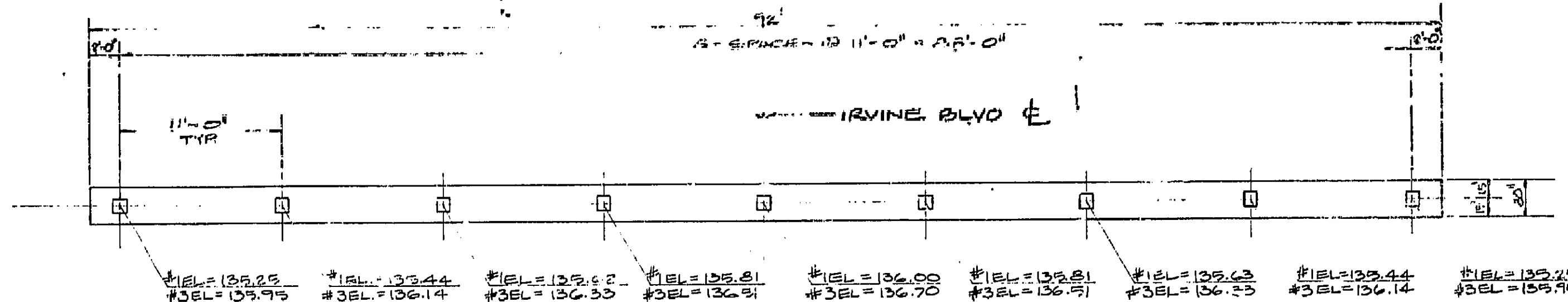
12-8-86 [Signature] SUPERVISOR OF MICROFILM SERVICES





SECTION "A-A" ABUTMENT NO 1 & 3

SCALE: 1" = 8'-0"



**TYPICAL PILE LAYOUT
ABUT. NO 1 & 3**

SCALE: 1" = 6'-0"

NOTE: SPECIFIED PILE TIP ELEV. = 103.00'
ESTIMATED PILE TIP ELEV. = 98.00'

NOTE: EXPOSE ALL UNDERGROUND UTILITIES
PRIOR TO PREDRILLING & PILE DRIVING.

NOTES:

1. FOR PIER 2 PILE LAYOUT SEE SHEET NO 43
2. FOR STRUCTURE EXCAVATION & BACKFILL DETAILS SEE SHEET NO 45
3. RAIL UTILITY CHANNING DETAILS SEE SHEET NO 46.

"AS-BUILT" PILE DRIVING DATA

PILE DRIVING MAKE & MODEL
DRIVING ACTION
RATED ENERGY
RAM WEIGHT
MAX. STROKE
BEARING VALUE FORMULA
OR P =

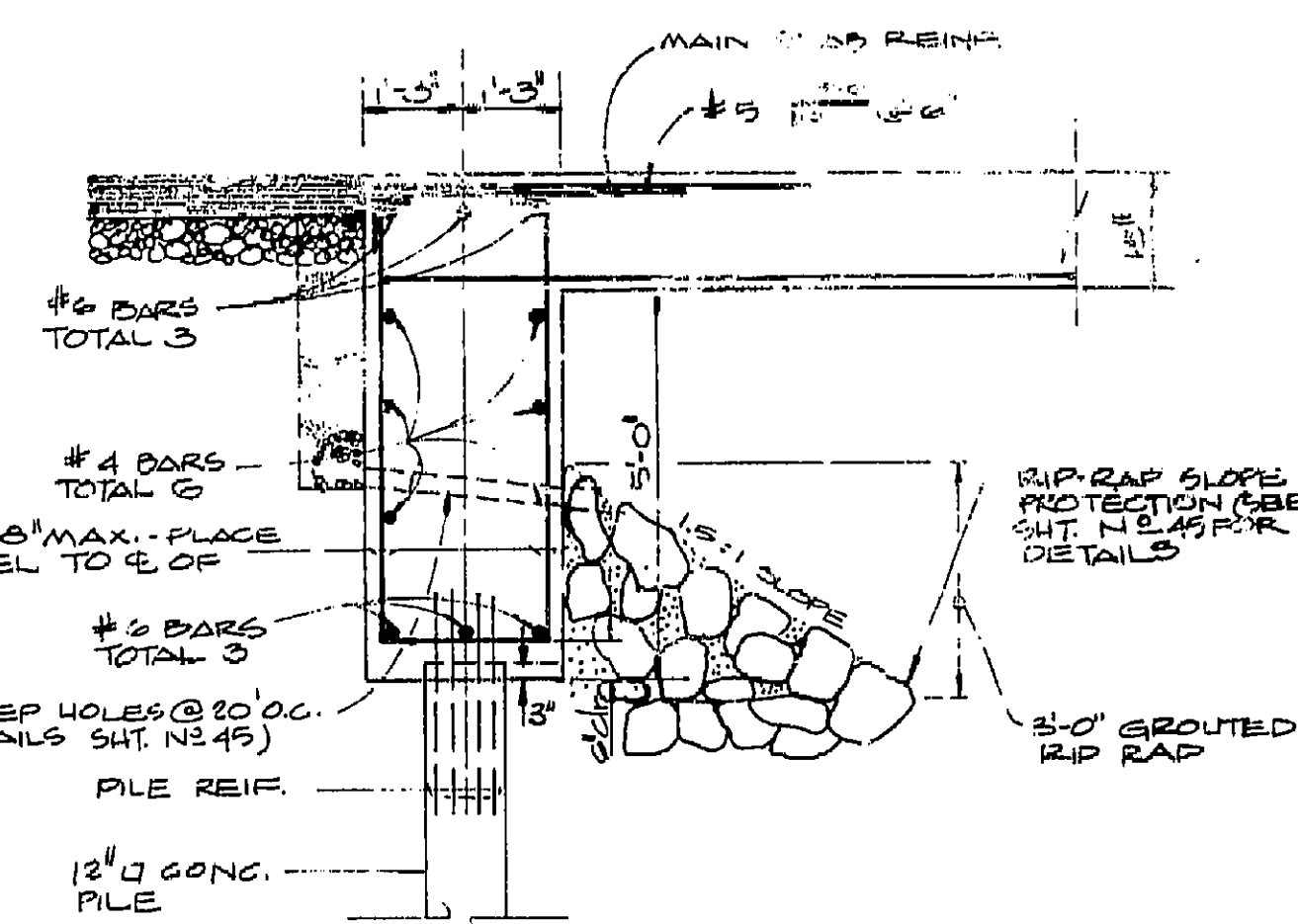
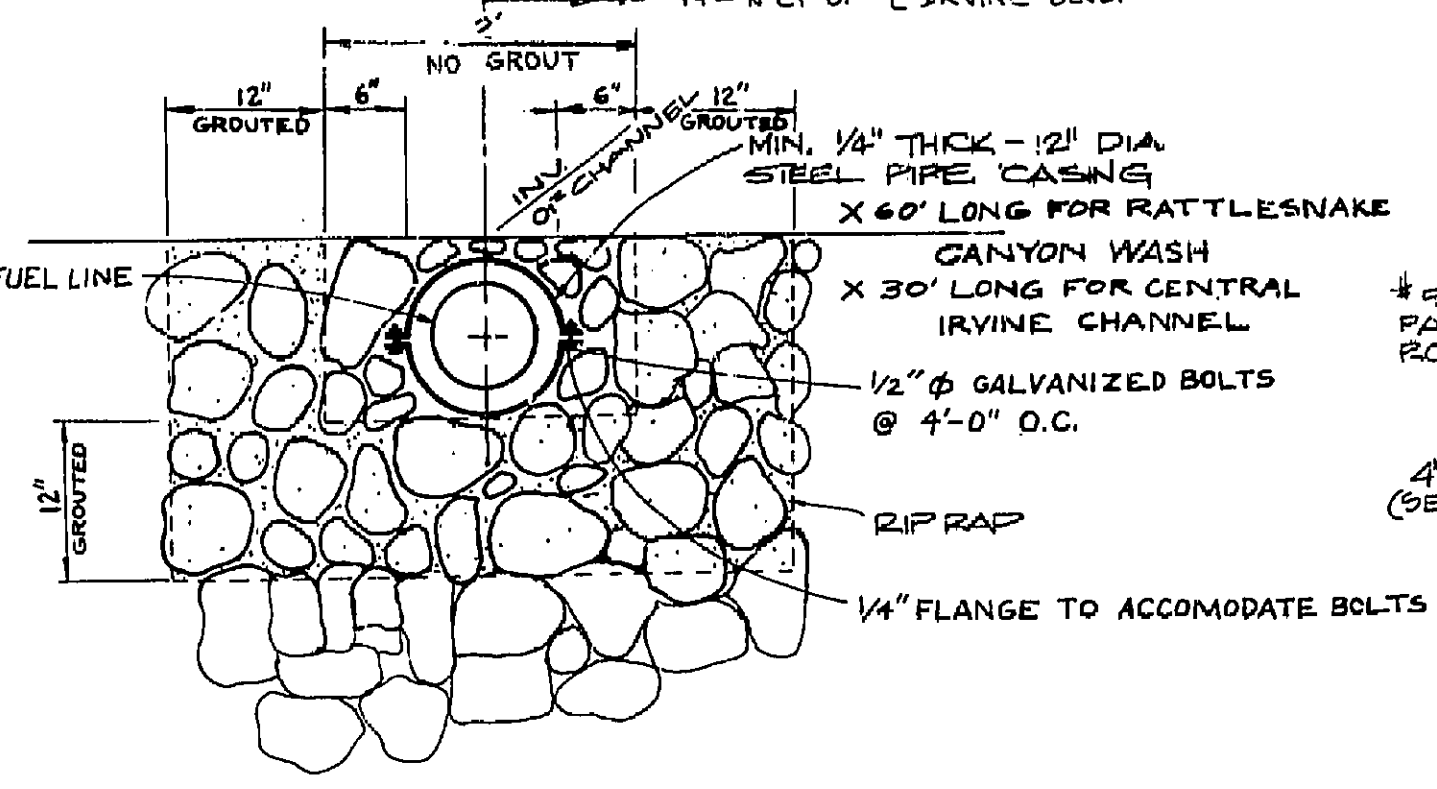
STD. SPEC. SEC. 49-1.08

ABUTMENT NO 1	OUT. OFF. ELEV.	* MAX. TIP ELEV.	* MIN. TIP LENGTH	* MAX. STROKE	* MAX. STROKE HEIGHT	* MAX. STROKE PER FOOT	* MAX. BEARING VALUE (TONS)
PIER NO 2							
ABUTMENT NO 3							

*** NEW BRIDGE CONSTRUCTION**

NOTE: TABLE & DATA ABOVE FOR USE OF RESIDENT ENGINEER UPON COMPLETION OF CONSTRUCTION.

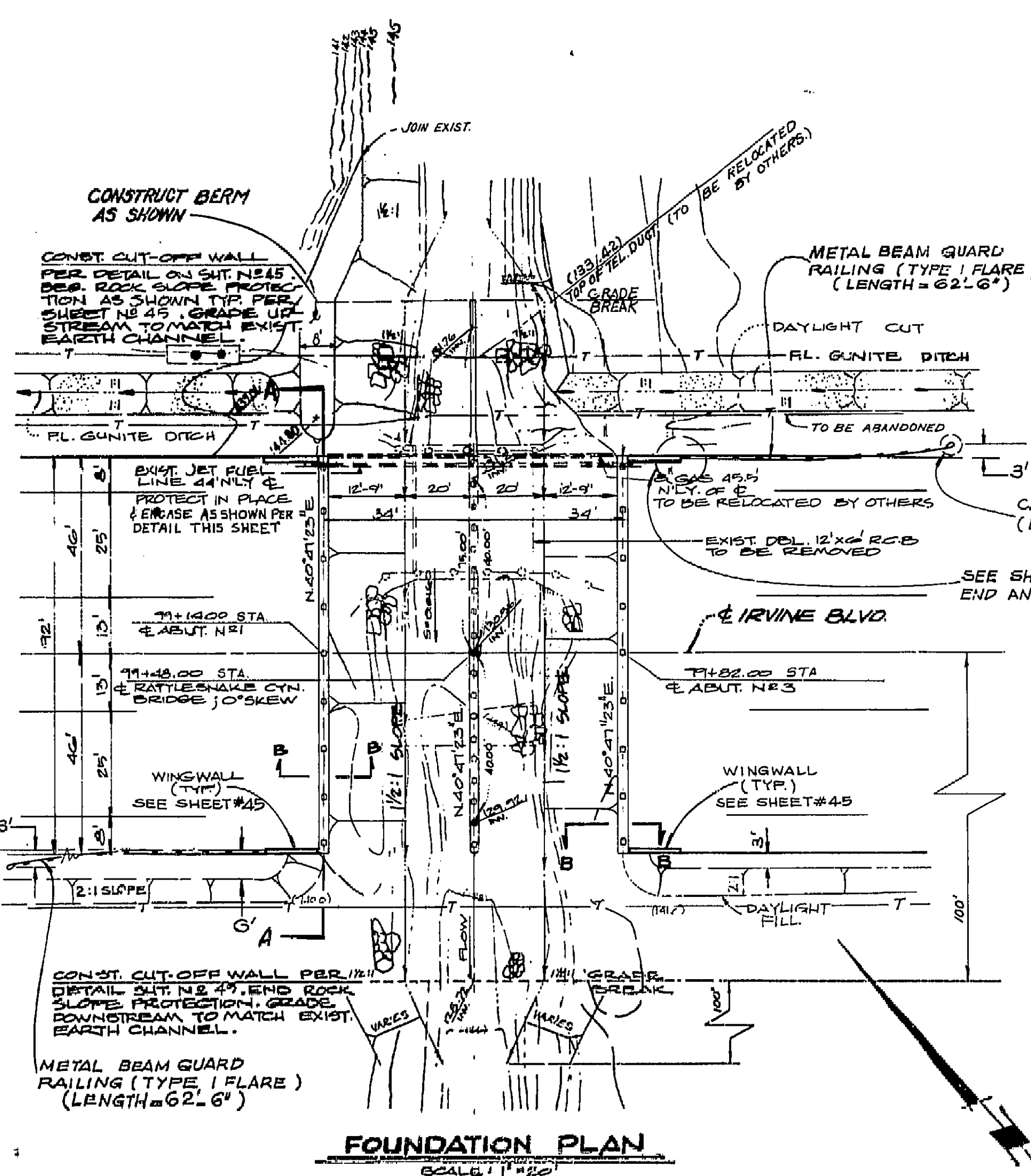
8" JET FUEL LINE 44' N.Y. OF IRVINE BLVD.



**SECTION "B-B"
SHOWING TYP. ABUT. DETAIL**

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

3 inches on original drawing



FOUNDATION PLAN

SCALE: 1" = 2'-0"

AS BUILT PLANS
Contract No. Unknown
Date Completed 1000 8548
Document No. 1000 8548

CHECKED BY:

[Signature]

DATE	DESCRIPTION	PREPARED BY	SCALE	DATE	DWG. NO.	SHEET

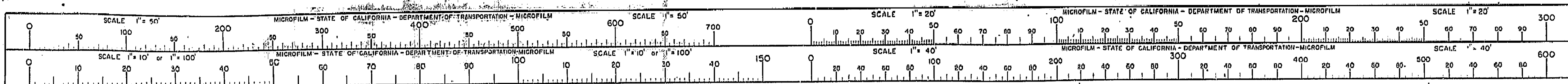
ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY
IRVINE BLVD. BRIDGE OVER
RATTLESNAKE CYN. WASH
SSC - 217

**PILE & WINGWALL
DETAILS**

DR. 3 (13966)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION

12-8-86 *[Signature]* SUPERVISOR OF MICROFILM SERVICES



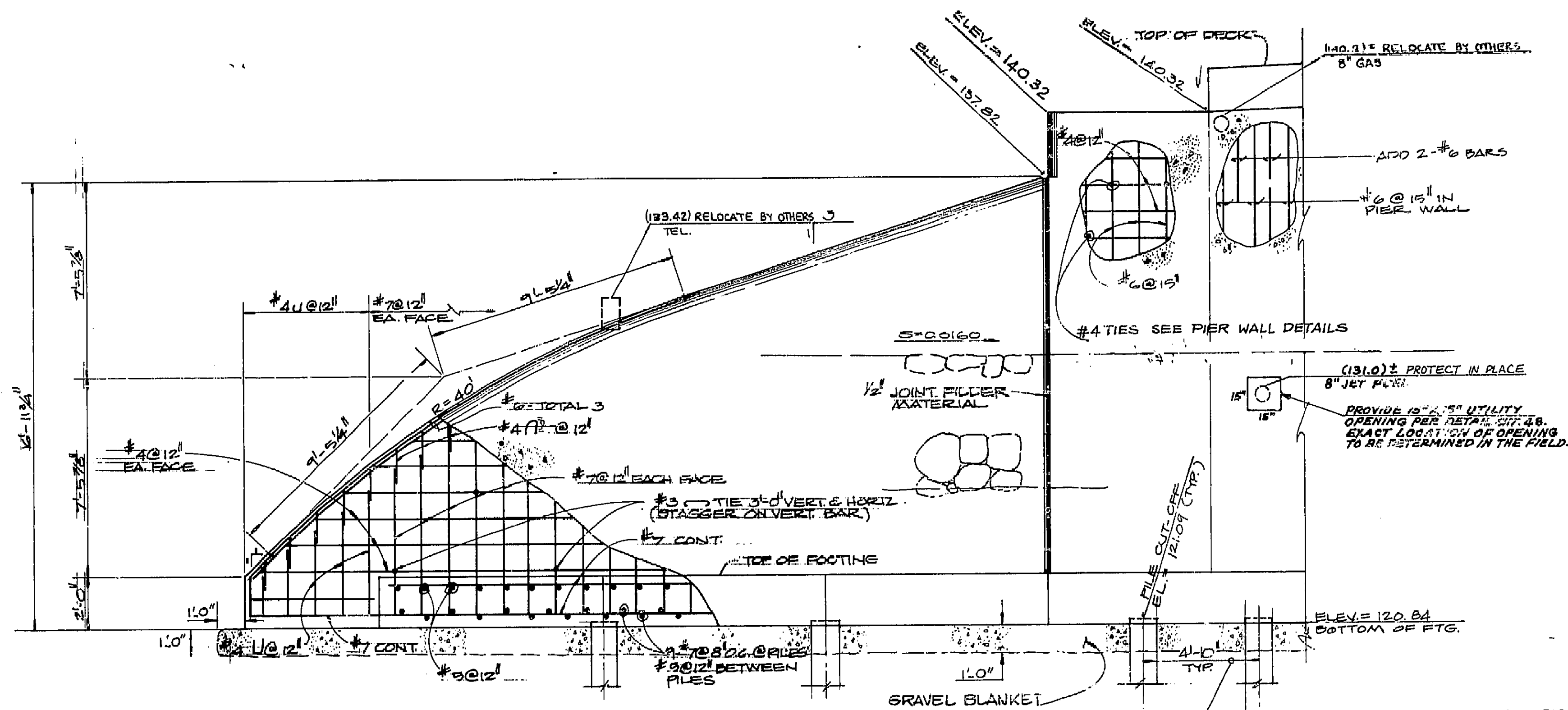


PRESTRESSED
PRECAST CONC. PILES
(SEE DETAIL SHEET N2 17)

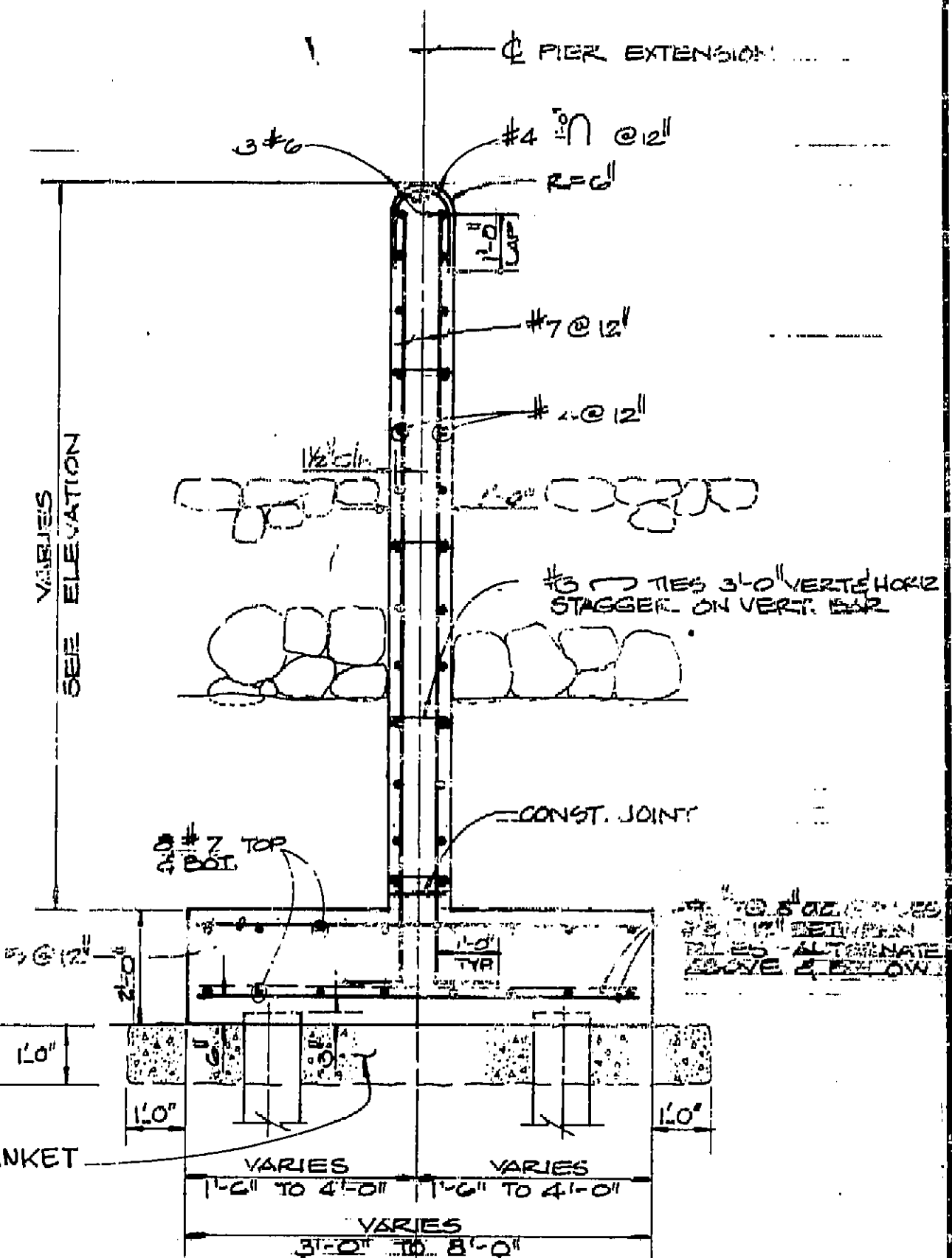
			ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		
			IRVINE BLVD. BRIDGE OVER RATTLESNAKE CYN. WASH 55C - 217		
			PIER WALL DETAIL		
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION BY <i>George A. Smith</i> <i>10-2-77</i>	DATE <i>2-25-79</i>	SHEET 43
REVISIONS			SCALE	DATE	DWG. NO.
CHECKED			AS SHOWN		
DRAWN	CHECKED				

SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM SCALE 1" = 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM SCALE 1" = 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

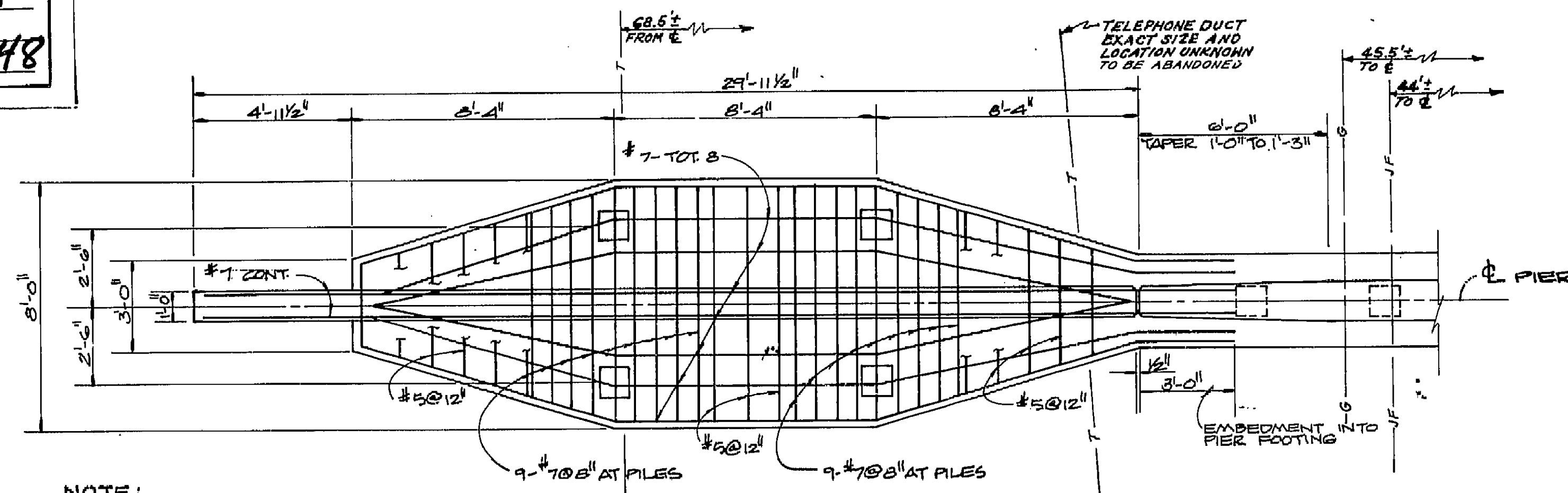
SCALE 1" = 10' or 1" = 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM SCALE 1" = 10' or 1" = 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM SCALE 1" = 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM SCALE 1" = 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM



PIER EXTENSION ELEVATION
SCALE: 3/8" = 1'-0"



PIER EXTENSION SECTION
SCALE: 1/2" = 1'-0"



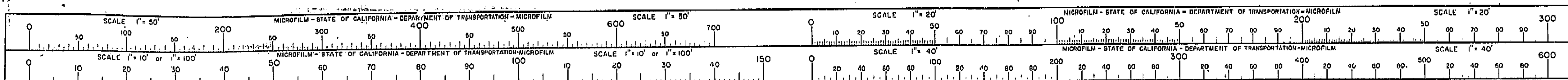
PIER EXTENSION FOOTING
SCALE: 3/8" = 1'-0"

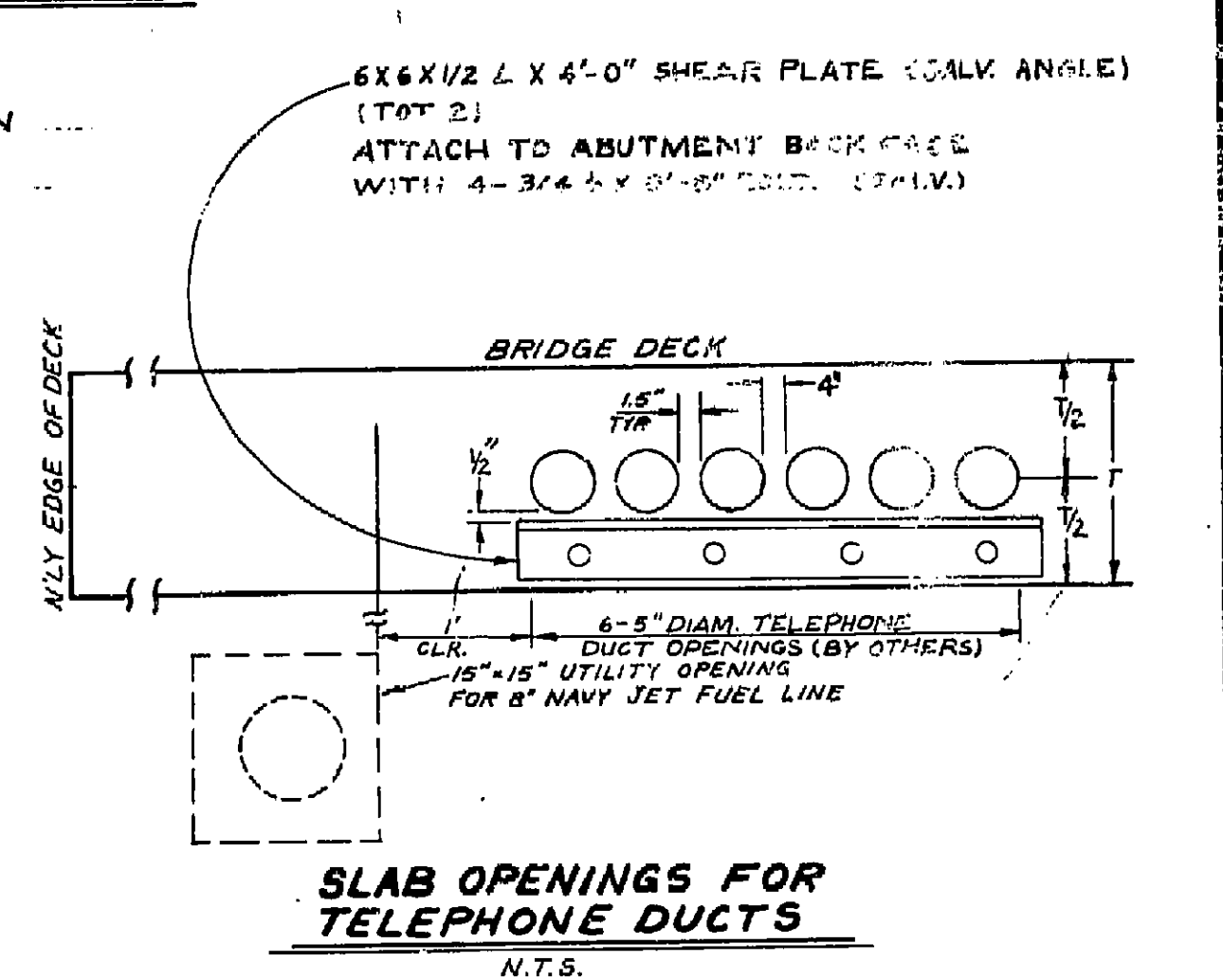
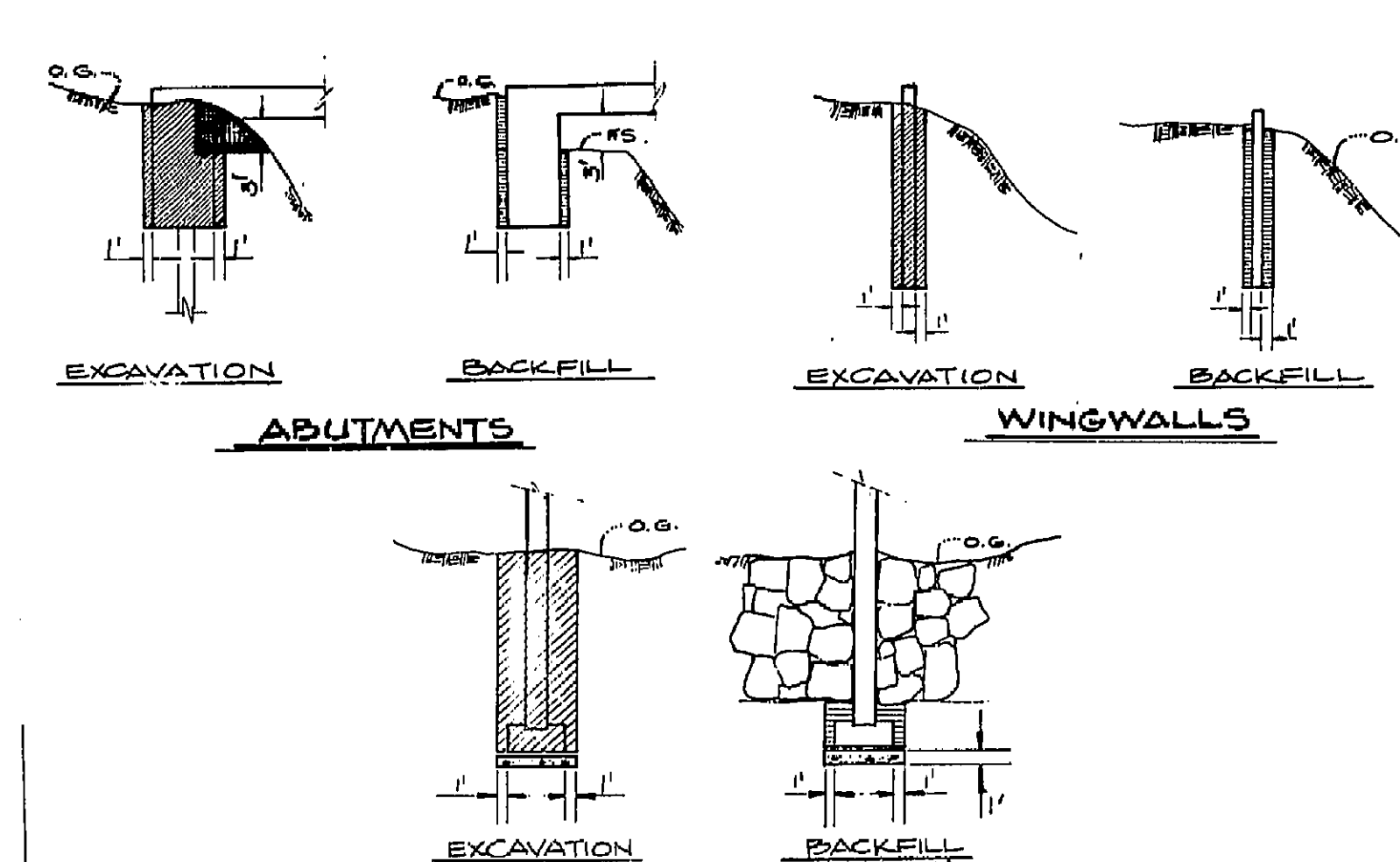
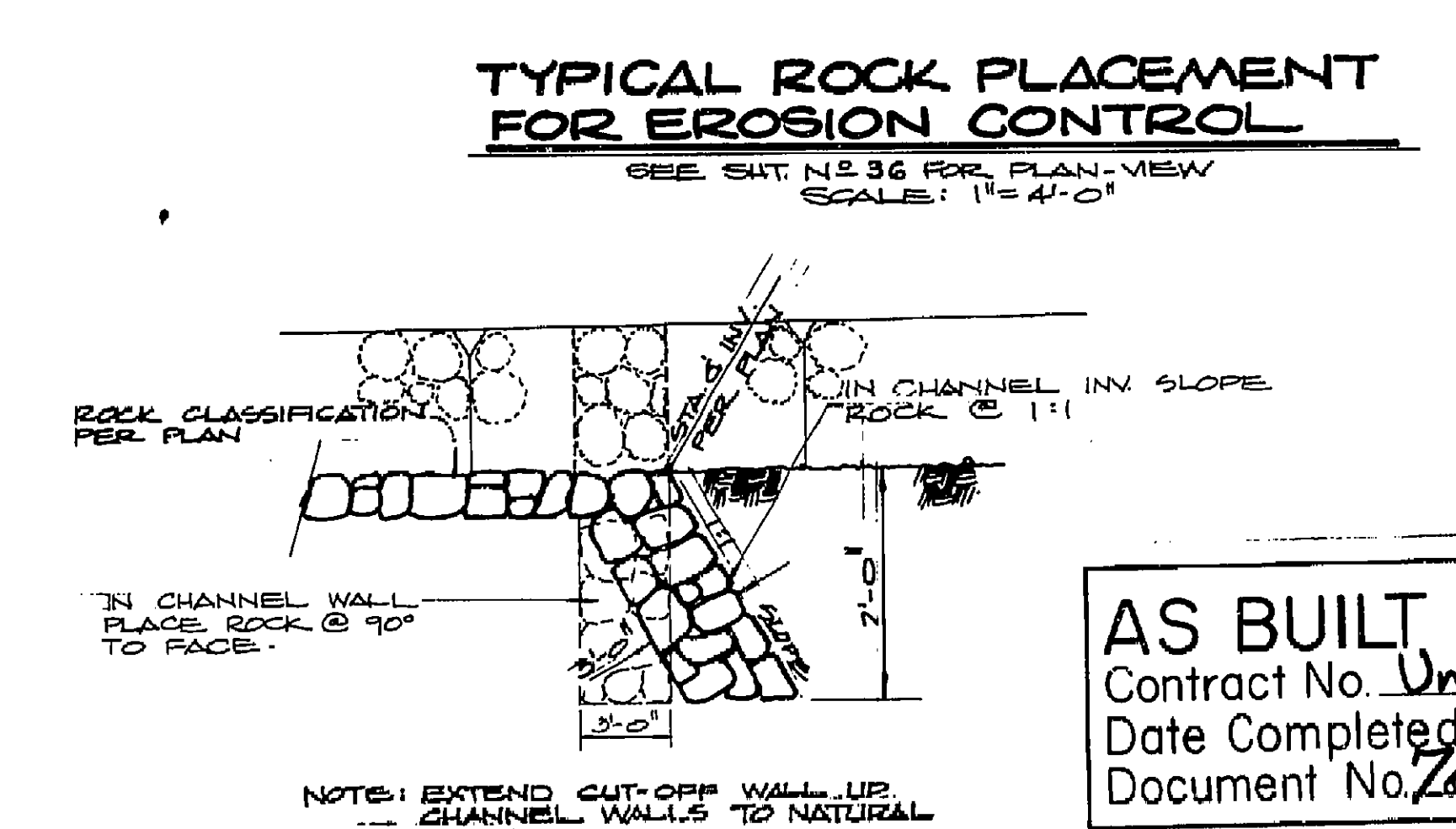
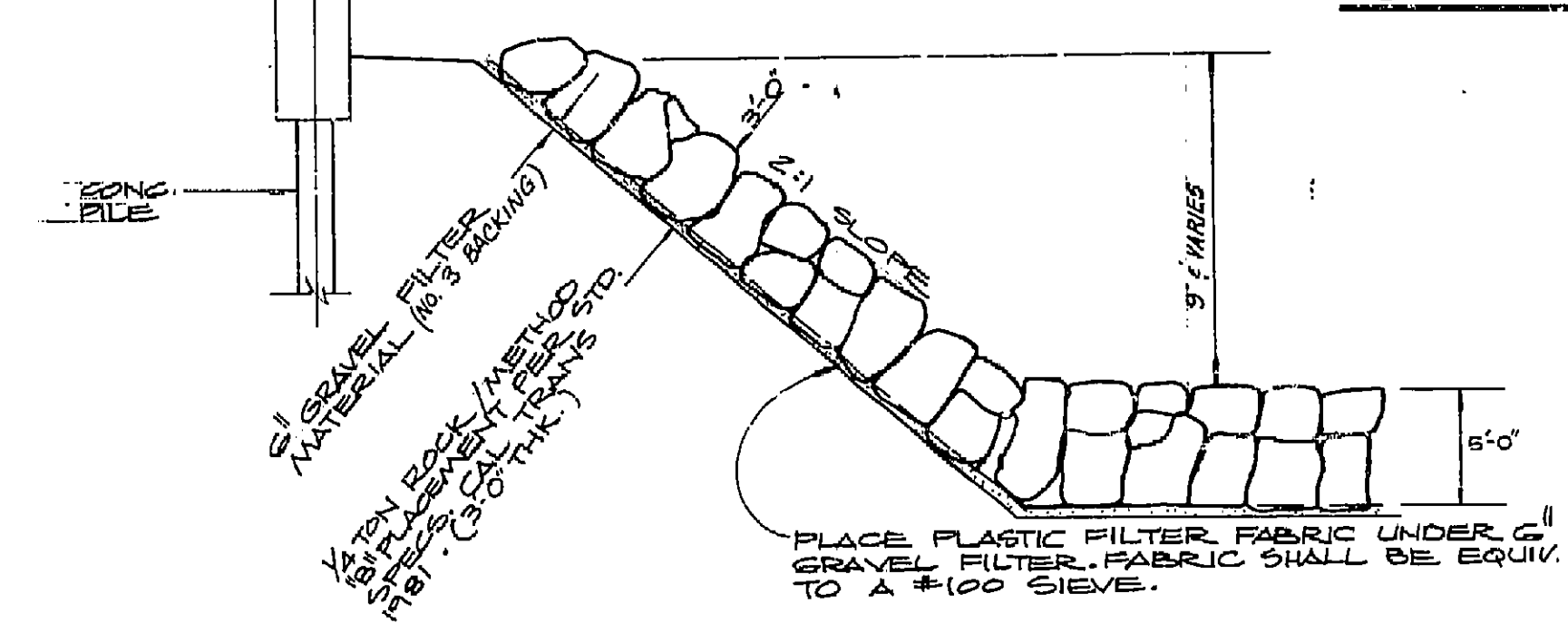
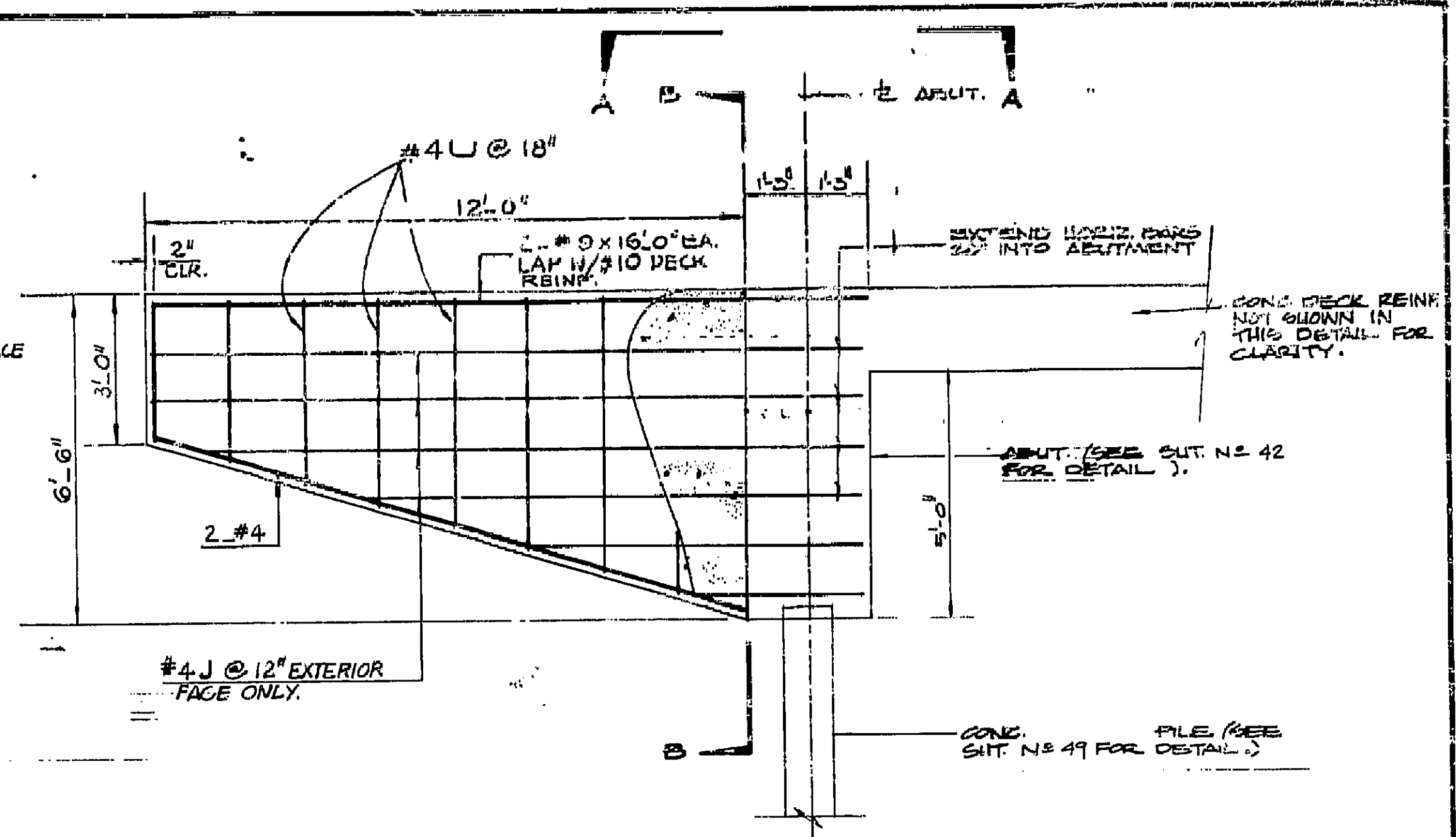
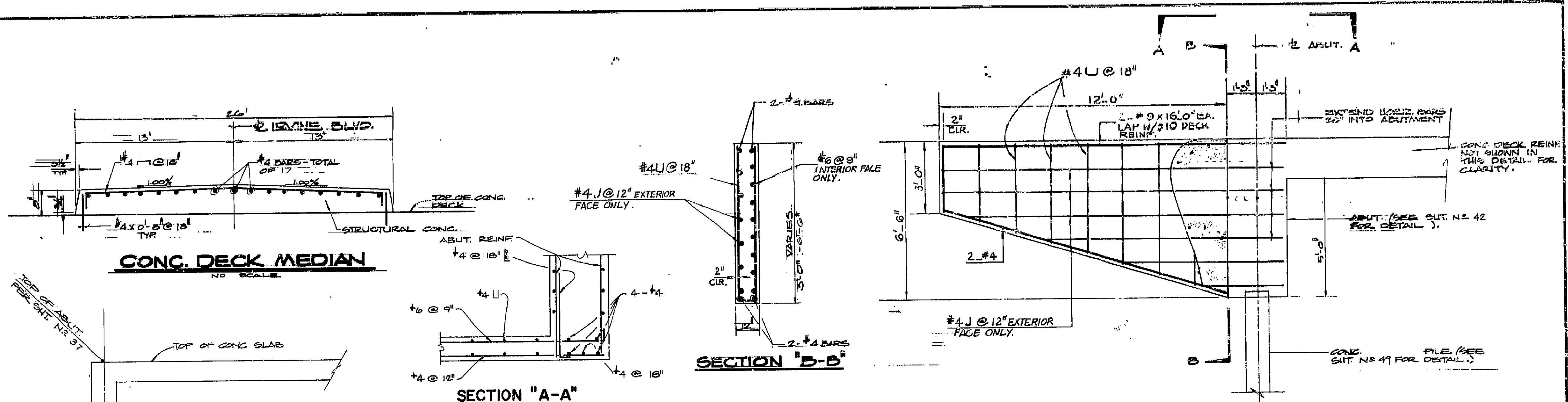
1/2 0 1 2
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY			
IRVINE BLVD. BRIDGE OVER RATTLESNAKE CYN. WASH 55C-217			
PIER EXTENSION DETAILS			
DATE	DESCRIPTION	PREPARED UNDER	SHEET
REVISIONS		REVISIONS	44
SCALE	DATE	SCALE	DATE
AS SHOWN		AS SHOWN	

CHECKED BY:
RCE 23851

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO
AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 12-8-86 BY [Signature] SUPERVISOR OF
MICROFILM SERVICES





AS BUILT PLANS
Contract No. Unknown
Date Completed 12-8-86
Document No. 70008548

- LEGEND**
- O.G. = ORIGINAL GROUND
 - F.S. = FINISHED SURFACE
 - [Hatched] = STRUCTURE BACKFILL (METHOD "A")
 - [Hatched] = UNCLASSIFIED EXCAVATION
 - [Hatched] = STRUCTURE EXCAVATION
 - [Hatched] = GRAVEL BLANKET (SEE SPECIALS PROVISIONS)

STRUCTURE EXCAVATION & BACKFILL DETAILS
N.T.S.

CHECKED BY: [Signature]
DATE: 12-8-86

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		IRVINE BLVD. BRIDGE OVER RATTLESNAKE CYN. WASH 550-217	
MISC. DETAILS		SHEET 45	
DATE	DESCRIPTION	PREPARED BY	DATE
12-8-86	AS BUILT PLANS	James A. Berlin	12-8-86
SCALE	DATE	DWG. NO.	DATE
1" = 20'	12-8-86	12-8-86	12-8-86

DR. 3 (13966)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

12-8-86 [Signature] SUPERVISOR OF MICROFILM SERVICES

