
Bridge Inspection Records Information System

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State of California
Department of Transportation

**Division of Maintenance
Structures Maintenance & Investigations**



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0114
Facility Carried: TUSTIN AVE
Location : 200' S ORANGETHORPE AVE
City :
Inspection Date : 31-OCT-01

Bridge Inspection Report

Inspection Type

Routine	Group A	Underwater	Special	Other
☐	☐	☐	☐	☒

Name : ATWOOD CHANNEL

CONSTRUCTION INFORMATION

Year Built : 1967	Skew (degrees): 3
Year Widened : N/A	No. of Joints : 0
Length (m) : 22.6	No. of Hinges : 0

Description of Structure : Continuous 2 span CIP/RC deck slab with an RC 12-column pile bent and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (S) 2 @ 11.0 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20	
Inventory Rating : 37.2 metric tons	Calculation Method : LOAD FACTOR
Operating Rating : 65.3 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 : (W) 0.1 m br, 7.0 m, 2.7 m med, 9.4 m, 0.1 m br (E)	
Total Width : 19.5 m	Net Width : 19.20 m
Rail Description : MBGR	No. of Lanes : 4
Min. Vertical Clearance : Unimpaired	Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with an RC slope at the south abutment.

HISTORY

There is no history of scour or related problems associated with this bridge.

REVISIONS

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

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 Inventory Item 113 Code, "Vulnerability to Scour", has been changed to U: "Bridge with "unknown" foundation that has not been evaluated for scour. Since risk cannot be determined, flag for monitoring during flood events and, if appropriate, closure."

This report was generated based on an office investigation only. A scour evaluation could not be completed because the as built plans provided by the Local Agency are either incomplete or not sufficiently legible for this bridge.

As more pertinent information regarding the structural foundations becomes available, this structure will be re-evaluated for scour potential at a future date under the "Unknown Foundation" Scour Critical Bridge Program tentatively scheduled to begin in mid 2002.

MISCELLANEOUS

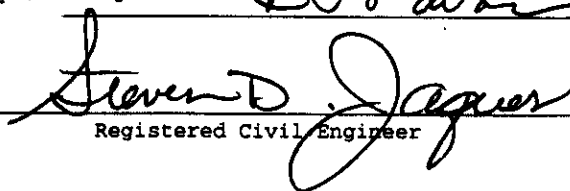
Mr. Kenneth Smith of the Orange County Department of Public Works (714-834-4477) was contacted regarding obtaining a set of as built plans for this structure. Plans were received, however the plan sheets are not complete or sufficiently legible to complete preliminary scour calculations.

Bridge No.: 55C0114

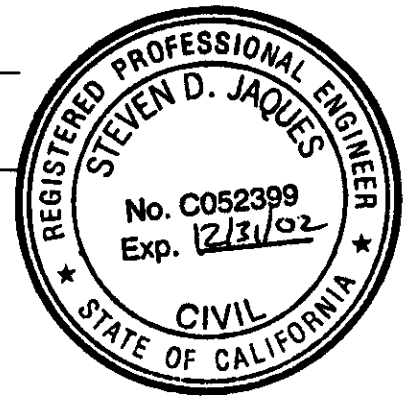
Location: 200' S ORANGETHORPE AVE

Inspection Date: 31-OCT-01

Inspected By : Barry L. Pavan



Registered Civil Engineer



CC : TMRut, DSM&I
Steve Jaques, Hydraulics
Ben Phan, ABME - South
Orange County



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0114
Facility Carried: TUSTIN AVE
Location : 200' S ORANGETHORPE AVE
City :
Inspection Date : 05-JUN-01
Inspection Type

Bridge Inspection Report

Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : ATWOOD CHANNEL

CONSTRUCTION INFORMATION

Year Built : 1967
Year Widened : N/A
Length (m) : 22.6
Skew (degrees): 3
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Continuous 2 span CIP/RC deck slab with an RC 12-column pile bent and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (S) 2 @ 11.0 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20
Inventory Rating : 37.2 metric tons
Operating Rating : 65.3 metric tons
Permit Rating : PPPPP
Posting Load : Type 3 N/A english tons
Calculation Method : LOAD FACTOR
Calculation Method : LOAD FACTOR
Type 3S2 N/A english tons
Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (W) 0.1 m br, 7.0 m, 2.7 m med, 9.4 m, 0.1 m br (E)
Total Width : 19.5 m
Net Width : 19.20 m
Rail Description : MBGR
Min. Vertical Clearance : Unimpaired
No. of Lanes : 4
Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with an RC slope at the south abutment.

CONDITION OF STRUCTURE

The structure is in good condition.

MISCELLANEOUS

Pedestrian access beneath the structure is from the northerly quadrants.

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	420 sq.m.	420	0	0	0	0
01	205	Reinforced Conc Column or Pile Extension	2	12 ea.	12	0	0	0	0
01	215	Reinforced Conc Abutment	2	40 m.	40	0	0	0	0
01	234	Reinforced Conc Cap	2	20 m.	20	0	0	0	0
01	256	Slope Protection	2	1 ea.	1	0	0	0	0
01	337	Metal Railing (W6X25 Posts)	2	50 m.	50	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0114

Location: 200' S ORANGETHORPE AVE

Inspection Date: 05-JUN-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut
Orange County

Bridge No.: 55C0114

Location: 200' S ORANGETHORPE AVE

Inspection Date: 05-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0114
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 40 0M008N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - ATWOOD CHANNEL
 (7) FACILITY CARRIED - TUSTIN AVE
 (9) LOCATION - 200' S ORANGETHORPE AVE
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 52 MIN 04 SEC
 (17) LONGITUDE 117 DEG 50 MIN 34 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 1967
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY-PEDESTRIAN 5
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 04 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 19000
 (30) YEAR OF ADT 1999 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 2 KM

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

(48) LENGTH OF MAXIMUM SPAN 11 M
 (49) STRUCTURE LENGTH 22.6 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 2.3 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 19.2 M
 (52) DECK WIDTH OUT TO OUT 19.5 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 23.5 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 3 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 19.2 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 = 90.1 *****

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 8
 (62) CULVERTS N

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

(31) DESIGN LOAD - MS - 18 OR HS - 20 5
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 65.3
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 37.2
 (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 6
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (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 2019

***** 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)

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 2/93)

Bridge Number 55C-114

Location 12 - Ora - FAU M008-CR
Dist.-Co.-Rte.-City

Date of Investigation September 10, 1997

TYPE OF INVESTIGATION/REPORT

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

Name ATWOOD CHANNEL (Tustin Avenue, 200' south of Orangethorpe Avenue)

CONDITION RATINGS:

Element Level Inspection (ELI) form attached.

Channel & Channel Protection

8

SCOUR CRITICAL:

A scour rating of A-3 is appropriate.

MISCELLANEOUS DISCUSSION:

The inspection team consisted of Makoto Ogata and Faye Kirchhoff.

CONDITION OF STRUCTURE:

There is light transverse cracking in concrete bridge deck. (0)

Northmost post of west metal railing has rusted. (0)

Otherwise, the condition of the structure is good.

WORK RECOMMENDED:

None.

ENCROACHMENT:

One 0.10 m welded steel pipe attached to west exterior.

M. Ogata
M. Ogata



MO:cd
c: TMRut
Orange County

INFORMATION ONLY - NOT FOR UPDATE

SCOUR CRITICAL..... NO
GROUP A INVESTIGATION..... NO
FRACTURE CRITICAL..... NO
ELIGIBLE FOR RAIL UPGRADE.. NO
UNDERWATER INVESTIGATION... NO

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
NAME	

D E L	ELE #	ELEMENT DESCRIPTION	E N V	TOTAL QUANTITY	UNITS	QUANT	QUANT	QUANT	QUANT	QUANT
						CONDITION	CONDITION	CONDITION	CONDITION	CONDITION
						STATE 1	STATE 2	STATE 3	STATE 4	STATE 5
	3 8	CONCRETE SLAB - BARE	2	1	EA	1				
	2 0 5	REINFORCED CONCRETE COLUMN OR PILE EXTENSION	2	1 2	EA	1 2				
	2 1 5	REINFORCED CONCRETE ABUTMENT	2	3 9 40	M	3 9 40				
	2 2 7	REINFORCED CONCRETE SUBMERGED PILE	2	1	EA	X				
	2 5 6	SLOPE PROTECTION	2	1 2	EA	1 2				
	3 3 0	METAL BRIDGE RAILING	2	4 9	M	4 9	2			
D	337	Steel Rail (W6)	2	50	M	50				
	234	RC Cap	2	20	M	20				

BY: 

Bridge Number 55C-114

Location 12 - Ora - FAU M008-CR
Dist.-Co.-Rte.-City

Date of Investigation July 14, 1995

TYPE OF INVESTIGATION/REPORT

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

Name ATWOOD CHANNEL (Tustin Avenue, 200' south of Orangethorpe Avenue)

CONDITION RATINGS:

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

Channel & Channel Protection

8

SCOUR CRITICAL:

A scour rating of A-3 is appropriate.

CONDITION OF STRUCTURE:

There is light transverse cracking in concrete bridge deck.

Northmost post of west metal railing has rusted.

Condition of structure is good.

WORK RECOMMENDED:

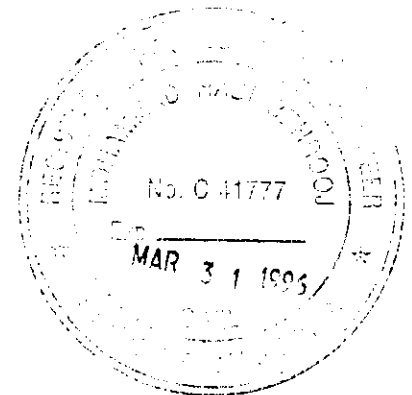
None.

ENCROACHMENT:

One 0.10 m welded steel pipe attached to west exterior.

By M. Hadi Behrooj *MHB*
G. P. Balinghasay

GPB:cd
cc: CDHarris
Orange County
WLindsey



INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER

5 5 C 0 1 1 4

1 8

FRAME

0 1

9

INSPECTION DATE

0 7 1 4 9 5

11 16

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-114

Name ATWOOD CHANNEL (Tustin Avenue,
200' south of Orangethorpe Avenue)

Location 12-Ora-FAU M008-CR
Dist.-Co.-Rte.-City

SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-14-95	1 - 0.10 m welded steel pipe attached to west exterior.

Bridge Number 55C-114

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

Location 12 - Ora - FAU M008-CR
Dist.-Co.-Rte.-City

Date of Investigation April 16, 1993

Name ATWOOD CHANNEL (Tustin Avenue, 200' south of Orangethorpe Avenue)

CONDITION RATINGS:

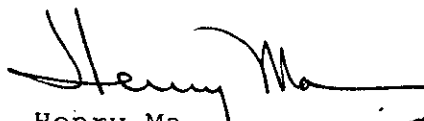
Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

8

CONDITION OF STRUCTURE:

Condition of the structure is good.


Henry Ma

HM:cd

cc: INagai (2)
County of Orange



(ATTACHMENT A)

INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0114	01	041693
1 8	9	11 16

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 REPORT

14V42

Bridge No. 55C - 114

DS-MSB (REV. 1/91)

Location 12 - Ora - FAU M008-CR
Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 12, 1991

Name ATWOOD CHANNEL (Tustin Avenue, 200' S. of Orangethorpe Avenue)

Lat. 33° - 52.0'N Long. 117° - 50.5'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1967 By County of Orange Contract No. Unknown

Designed by: Jennings, Halderman, Hood Plans Avail. @County

Description: 2 span continuous CIP RC slab supported by RC pile bent and open end RC diaphragm abutments on concrete piles.

Spans (S) 2 @ 36' (N)

Length 74' NBIS Bridge Length Yes Skew 3° Right

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 Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (W) 0.3'br, 23', 9'm, 31', 0.3'br (E)

Total Width 64' Net Width 63' Lanes 4 Tracks None

Median Painted stripe Rail Type Metal beam with chain link fence 0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 77'

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 Atwood Channel (E 04)

April 12, 1991

DESCRIPTION - HYDRAULICS

Channel Earth trapezoidal

Navigable: Yes ☐ No ☒ Clearances: Vert.

Horiz.

Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	21,000	1989	N	
Average Daily Traffic (Future) :	22,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	1% Est		N	
Bypass Detour Length	1 mile		N	
Shell Route:	No		No	
Functional Classification :	14		N	
LOAD RATINGS:	Inventory HS 23	Operating	HS 40	
	Permit PPPPP	Computation Method	Load Factor	

CONDITION RATINGS:

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

APPRAISAL RATINGS:

Waterway Adequacy	9	Approach Roadway Alignment	8
-------------------	---	----------------------------	---

Date of Revisions

CONDITION OF STRUCTURE:

There is light cracking in the concrete bridge deck.

20'± of chain link fence, attached to metal beam bridge rail, has been destroyed by traffic at northwest end of bridge.

Condition of the structure is good.

ENCROACHMENT:

4" welded steel pipe attached to west exterior.

1 1/2" steel conduit attached to east exterior.

Henry Ma



HM:ms

cc: INagai (2)

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 1/89)

Bridge No. 55C-114

Location 12-Ora - FAU M008 - CR
Dist. Co. Rte. City

Date of Investigation 4-13-89

Name ATWOOD CHANNEL (Tustin Avenue, 200' S. of
Orangethorpe Avenue)

CONDITION RATING:

Deck 8 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:

Condition of the structure is good.

REVISION:

Location: 12-Ora-FAU M008-CR
ADT: 21,000 (1988)

WORK RECOMMENDED:

None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

2 RC open end diaphragm abutments on concrete piles.

1 RC pile extension bent.

Henry Ma
Henry Ma

HM:ms

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



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

Bridge No. 55C-114

Location 7-Oran-Fall M008-CR
Dist - Co - Rte - PM - City

Date of Investigation April 14, 1987

ATWOOD CHANNEL (Tustin Ave., 200' S. of Orangethorpe Ave)

Name

CONDITION RATING:

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

APPRAISAL RATING:

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:

Average Daily Traffic - 18,000 (1985)

WORK DONE:

Northwest end of metal beam bridge rail has been repaired.

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
SUPPLEMENTARY BRIDGE REPORT
DH-OS 119 (REV. 1/74)

Bridge No. 55C-114
Location 7-Ora-FAU M008-CR
Sta - Co - Pk - City
Date of Investigation January 2, 1986

Name ATWOOD CHANNEL (Tustin Ave., 200' S. of Orangethorpe Ave.)

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

ENCROACHMENT:

1½" steel conduit attached to outside of east rail.

CONDITION OF STRUCTURE:

The northwest endpost and rail have been hit and are bent.
Otherwise, the overall condition of the structure is good.

RECOMMENDED POSTING:

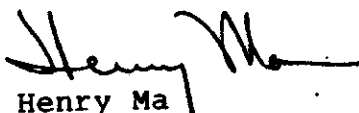
None

WORK RECOMMENDED:

None

HM:pdh

cc: INagai (2)
Orange County (2)


Henry Ma
C-36817

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

Bridge No. 55C-114
Location 7-Oran-FAU MO08-CR
Dist - Co - Rte - Pkg - City (On Deck)
Date of Investigation August 24, 1983

Name ATWOOD CHANNEL (Tustin Ave., 200' S. of Orangethorpe Ave.)

CONDITION RATING:

APPRAISAL RATING:

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

Widenable? Yes ☒ No ☐ Conditional ☐
County
Action Required by ~~DESIGNER~~ Yes ☐ No ☒

PRIORITY

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

REVISION:

Ratings - Permit: P P P P P
Safe Load Capacity 9

Approach Roadway Width - 74'

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None

RECOMMENDATION:

None

E. L. Neff
E. L. Neff
C-28703

ELN:pdh
cc: DRHiggins (2)
Orange County (2)

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

Bridge No. 55C-114
Location 07-Ora-FAU M008-6.9-CR (on deck)
Dist - Co - Rte - PM - City

Date of Investigation July 17, 1981

Name ATWOOD CHANNEL (Tustin Ave., 200' south of Orangethorpe Ave.)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 7 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by District: County: Yes ☐ No ☒

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None.

E. L. Neff
E. L. Neff
C 28703

ELN:cd
cc: DRHiggins (2)
Orange County (2)

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

Bridge No. 53C-114
Location 07-Oran-FAU-M008
Dist - Co - Rte - PM - City
Date of Investigation May 5, 1980

Name ATWOOD CHANNEL (TUSTIN AVENUE-200' ± SOUTH OF ORANGETHORPE AVENUE)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection (7)* Retaining Walls M

Widenable? Yes ☒ No ☐ Conditional ☐

County: Duck
Action Required by Duck Yes ☐ No ☒

AVERAGE DAILY TRAFFIC - 2000 (Estimate 1980)

BYPASS DETOUR LENGTH - 2 mile

ENCROACHMENTS - 4" Ø pipe attached to the west side of the structure.

CONDITION OF STRUCTURE:

The structure is in good condition.

RECOMMENDATIONS:

None.

Original signed by

FRANK J. WALLISER

FJW:11
cc:DRHiggins
Orange County (2)

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

Bridge No. 55C-114
Location 07-Ora-FAU M008-6.9-Co.
Dist - Co - Pte - PM - City
Date of Investigation June 16, 1976

Name ATWOOD CHANNEL

CONDITION RATING:

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

APPRAISAL RATING:

Widenable? Yes ☒ No ☐ Conditional ☐

County

Action Required by DMR: Yes ☐ No ☒

This structure is now located on Route FAU M008 (Formerly FAU 6257).

CONDITION OF STRUCTURE:

This structure is in good condition.

RAIL RATING:

(1000)

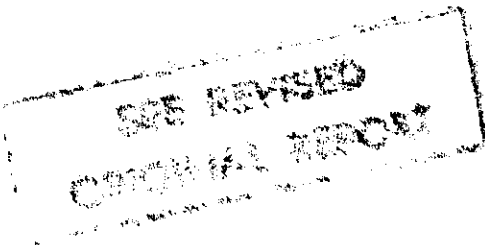
RECOMMENDATIONS:

None.


A. L. Clemence

ALC:1c

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE REPORT
DH-OS M58 (REV. 3/74)



Bridge No. 55C-114
Other No. OCPCD-E-04
P.U.C. No. _____
Location 07-0ra-FAU-6257-0.8-Co.
Dist - Co - Rte - PM - City
Date of Investigation June 7, 1974

Name ATWOOD CHANNEL (TUSTIN AVE.)
Lat. N33°-52.0' Long. W117°-50.5'

STRUCTURAL DATA AND HISTORY

Year Built 1967 By OCRD Contract No. _____
Date of Revisions _____
Designed by: B.D. ☐ Jennings, Halderman, Hood Plans Avail. @ Bridge Dept.
Description: R.C. Slab on R.C. pile bent and abutments.

Spans 2036'
Length 74' Skew 3000' 5° E Design LL H20-44 (Est.)
Ratings: Inventory H22.8 Operating H39.6 Permit P-13

DESCRIPTION - ON STRUCTURE

Bridge Width 2011-9.0m-1010-2011
Total Width 64' Lanes 5 Tracks None
Median Double-double stripe Rail Type Metal Beam
Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 45' (min) in flare
Wearing Surface None Deck Seal None
Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None
Clearances: Vert. _____ Horiz.; _____ Lt. _____ Rt. _____
Lanes _____ Tracks _____ Pumpplant: None ☐ See Br. No. _____
Facilities Crossed _____

cc: Orange County (2)

(1) CON'T.

Bridge No. 55C-114

Date June 7, 1974

DESCRIPTION - HYDRAULICS

Channel Trapezoidal earth channel, south slope paved under structure

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

MAINTENANCE

Custodian OCTCD/OCRD Owner OCRD

ORIGINAL
CONDITION RATING

Deck	<u>8-F8</u>
Superstructure	<u>8-F8</u>
Substructure & Pipes	<u>8-F8</u>
Channel & Channel Protection	<u>8-F8</u>
Retaining Walls	<u>--</u>
Approach Rdwy. Alignment	<u>8-F8</u>
Estimated Remaining Life	<u>50</u>

ORIGINAL
APPRAISAL

Overall	<u>8-F8</u>
Deck Geometry	<u>5</u>
Underclearances	Vert. <u>--</u>
	Horiz. <u>--</u>
Safe Load Capacity	<u>8-F6</u>
Waterway Adequacy	<u>8</u>
Approach Rdwy. Alignment	<u>8</u>

Widenable? Yes ☒ No ☐ Conditional ☐

County _____
Action Required by ENGINEER: Yes ☐ No ☒

CONDITION OF STRUCTURE:

The concrete is of good quality. No structural defects were noted.

ENCROACHMENTS:

4" steel pipe on outside west rail.

CAPACITY:

The structure is safe for legal loads and a P-13 overload.

RECOMMENDATIONS:

None.

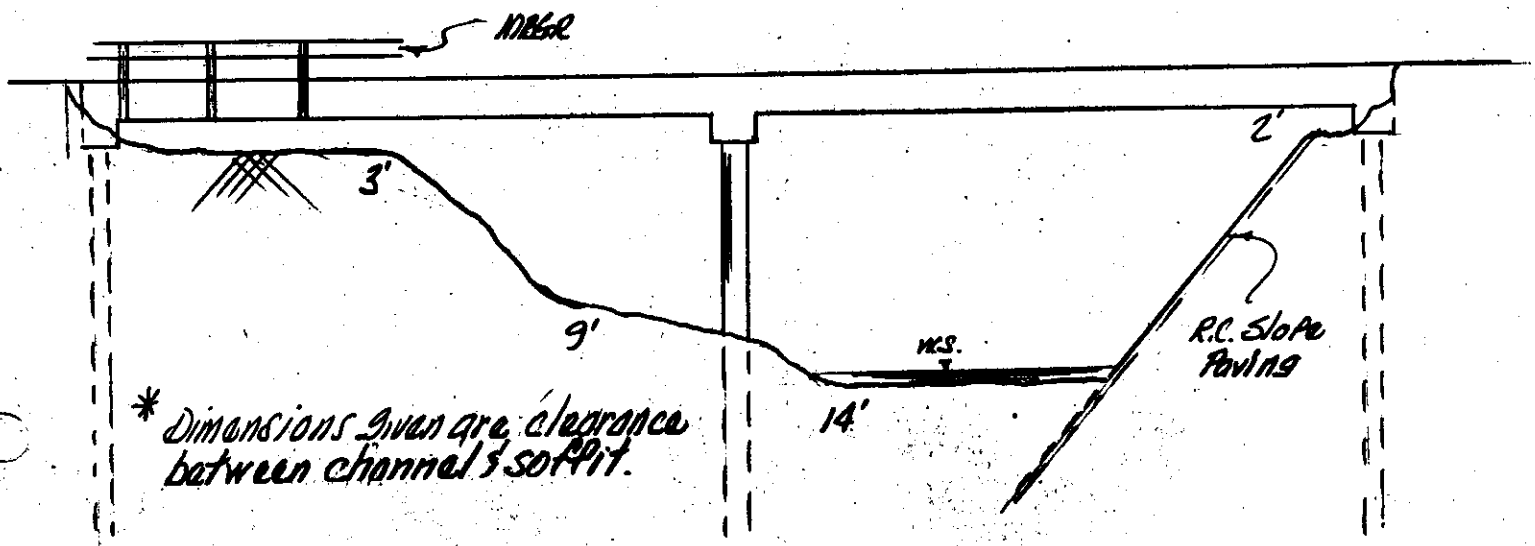
Original signed by

W. R. Baker

WRB:ah

BRIDGE No. 55C-114
SHEET _____
DATE 6-7-74
ATWOOD CHANNEL

CHANNEL PROFILE



LOOKING EAST