

---

# 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 : 55C0168  
Facility Carried: ANAPOLA AV  
Location : 0.2 MI E ORANGE PK BLVD  
City :  
Inspection Date : 15-AUG-01

**Bridge Inspection Report**

**Inspection Type**

Routine	Group A	Underwater	Special	Other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Name : HANDY CREEK**

**CONSTRUCTION INFORMATION**

Year Built : 1937	Skew (degrees): 0
Year Widened : N/A	No. of Joints : 0
Length (m) : 8.5	No. of Hinges : 0

Description of Structure : Simply supported two span timber stringers (19 each) and timber deck with a timber treated timber post (6 each) bent and a treated timber post (6 each) abutments, all supported upon treated timber sills.

Span Configuration : (W) 2 @ 4.0 m (E) c/c

**LOAD CAPACITY AND RATINGS**

Design Live Load : OTHER OR UNKNOWN	
Inventory Rating : 19.9 metric tons	Calculation Method : ALLOWABLE STRESS
Operating Rating : 28.1 metric tons	Calculation Method : ALLOWABLE STRESS
Permit Rating : GGGGG	
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, 2 @ 3.6 m, 0.1 m br (N)

Total Width : 7.3 m

Net Width : 7.10 m

No. of Lanes : 2

Rail Description : MBGR

Rail Code : 0000

Min. Vertical Clearance : Unimpaired

**DESCRIPTION UNDER STRUCTURE**

Channel Description : Natural earth trapezoidal upstream, RC rectangular with a check dam downstream.

**HISTORY**

The July 19, 1995 maintenance report indicated an undermined area at the southwest corner of the bridge (interpreted as the upstream end of west Abutment 3) was in progress of being repaired. There is no other history of local pier scour or drift information for this structure.

**REVISIONS**

The National Bridge Inventory Item 113 Code has been revised from 6 to 5.

**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 5: "Bridge foundations determined to be stable for the assessed or calculated condition. Scour is determined to be within the limits of footing or pile by assessment, by calculations or by installation of properly designed countermeasures."

This evaluation is based on both a field investigation and an office review of maintenance records. A channel cross-section was measured along the upstream edge of deck during this field reconnaissance.

The upstream storm channel is natural with mild to moderate slope and trapezoidal in section. Bank protection was not visible along the upstream channel. Bank vegetation includes trees and brush. Light drift was accumulating at the upstream end of Bent 2. The downstream storm channel banks are lined with masonry walls. A concrete weir structure is located approximately 5m downstream and appears to act as a grade control for the bridge. The top of this weir is approximately 2m above the downstream channel invert, which appears to be concrete lined for 3m or more. No evidence of abutment undermining or local pier scour was observed. Storm discharge appears to flow parallel to the center, timber bent.

Bridge No.: 55C0168

Location: 0.2 MI E ORANGE PK BLVD

Inspection Date: 15-AUG-01

Preliminary scour calculations could not be completed for this evaluation due to lack of as built plans for this bridge. However, based on the age of the structure and the presence of the concrete weir as a countermeasure to scour, this bridge is considered low risk for vulnerability to scour and therefore not scour critical.

**MISCELLANEOUS**

The Local Agency was contacted with a request for as built plans for this bridge. The plan sheet received did not match this bridge description and as built plans are not available in the Caltrans archive.

Inspected By : Barry L. Pavan

  
  
Registered Civil Engineer

CC : TMRut, SM&I  
Steve Jaques, Hydraulics  
Tony Nedwick, Hydraulics  
Mac Ogata, ABME - South  
Orange County

Bridge No.: 55C0168

Location: 0.2 MI E ORANGE PK BLVD

Inspection Date: 15-AUG-01

**CHANNEL X-SECTION**

Side : Upstream

X-Section Date : 15-AUG-01

Measured From : top of deck

<u>Location</u>	<u>Horiz (m)</u>	<u>Vert (m)</u>	<u>Comments</u>
Abutment 1	0.00	1.97	Abutment 1 face and edge of water
"	0.66	2.18	
"	1.30	2.33	
"	1.52	2.25	
"	2.29	2.25	
"	2.95	2.47	Thalweg & edge of debris
"	4.04	1.69	top of debris pile at Bent 2
"	5.11	2.27	edge of debris
"	6.55	2.00	edge of water
"	7.32	1.44	
Abutment 1	8.25	1.34	Abutment 3 face



**DEPARTMENT OF TRANSPORTATION**  
Structure Maintenance & Investigations

Bridge Number : 55C0168  
Facility Carried: AMAPOLA AV  
Location : 0.2 MI E ORANGE PK BLVD  
City :  
Inspection Date : 05-JUN-01

**Bridge Inspection Report**

**Inspection Type**  
Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

**Name : HANDY CREEK**

**CONSTRUCTION INFORMATION**

Year Built : 1937  
Year Widened : N/A  
Length (m) : 8.5

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

Description of Structure : Simply supported two span timber stringers (19 each) and timber deck with a timber treated timber post (6 each) bent and a treated timber post (6 each) abutments, all supported upon treated timber sills.

Span Configuration : (W) 2 @ 4.0 m (E) c/c

**LOAD CAPACITY AND RATINGS**

Design Live Load : OTHER OR UNKNOWN  
Inventory Rating : 19.9 metric tons  
Operating Rating : 28.1 metric tons  
Permit Rating : GGGGG  
Posting Load : Type 3 N/A english tons

Calculation Method : ALLOWABLE STRESS  
Calculation Method : ALLOWABLE STRESS

Type 3S2 N/A english tons Type 3-3 N/A english tons

**DESCRIPTION ON STRUCTURE**

Bridge width : (S) 0.1 m br, 2 @ 3.6 m, 0.1 m br (N)

Total Width : 7.3 m

Net Width : 7.10 m

No. of Lanes : 2

Rail Description : MBGR

Rail Code : 0000

Min. Vertical Clearance : Unimpaired

**DESCRIPTION UNDER STRUCTURE**

Channel Description : Natural earth trapezoidal upstream, RC rectangular with a check dam downstream.

**CONDITION OF STRUCTURE**

Because of water in the creek, only a surface inspection was performed.

Otherwise, the structure is in good condition.

**MISCELLANEOUS**

Pedestrian access beneath the structure is from the southwest quadrant.

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 32		Timber Deck - w/ AC Overlay	2	60 sq.m.	60	0	0	0	0
01 111		Timber Open Girder/Beam	2	161m.	161	0	0	0	0
01 206		Timber Column or Pile Extension	3	18 ea.	0	18	0	0	0
01 216		Timber Abutment	3	16 m.	0	16	0	0	0
01 235		Timber Cap	2	7 m.	0	7	0	0	0
01 337		Metal Railing (W6X25 Posts)	2	18 m.	18	0	0	0	0

**WORK RECOMMENDATIONS** - NONE

Bridge No.: 55C0168

Location: 0.2 MI E ORANGE PK BLVD

Inspection Date: 05-JUN-01

Inspected By : M. Ogata

*M. Ogata*  
Registered Civil Engineer



CC : TMRut  
Orange County

Bridge No.: 55C0168 Location: 0.2 MI E ORANGE PK BLVD Inspection Date: 05-JUN-01

## STRUCTURE INVENTORY AND APPRAISAL REPORT

## \*\*\*\*\* IDENTIFICATION \*\*\*\*\*

(1) STATE NAME - CALIFORNIA 069  
 (8) STRUCTURE NUMBER 55C0168  
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 40 00000N  
 (2) HIGHWAY AGENCY DISTRICT 12  
 (3) COUNTY CODE 059 (4) PLACE CODE 00000  
 (6) FEATURE INTERSECTED - HANDY CREEK  
 (7) FACILITY CARRIED - AMAPOLA AV  
 (9) LOCATION - 0.2 MI E ORANGE PK BLVD  
 (11) MILEPOINT/KILOMETERPOINT 0  
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0  
 (13) LRS INVENTORY ROUTE & SUBROUTE  
 (16) LATITUDE 33 DEG 48 MIN 10 SEC  
 (17) LONGITUDE 117 DEG 46 MIN 48 SEC  
 (98) BORDER BRIDGE STATE CODE % SHARE %  
 (99) BORDER BRIDGE STRUCTURE NUMBER

## \*\*\*\*\* STRUCTURE TYPE AND MATERIAL \*\*\*\*\*

(43) STRUCTURE TYPE MAIN: MATERIAL - WOOD OR TIMBER  
 TYPE - STRINGER/MULTI-BEAM OR GDR CODE 7 02  
 (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 TIMBER CODE 8  
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:  
 A) TYPE OF WEARING SURFACE - BITUMINOUS CODE 6  
 B) TYPE OF MEMBRANE - NONE CODE 0  
 C) TYPE OF DECK PROTECTION - NONE CODE 0

## \*\*\*\*\* AGE AND SERVICE \*\*\*\*\*

(27) YEAR BUILT 1937  
 (106) YEAR RECONSTRUCTED 0000  
 (42) TYPE OF SERVICE: ON - HIGHWAY 1  
 UNDER - WATERWAY 5  
 (28) LANES: ON STRUCTURE 02 UNDER STRUCTURE  
 (29) AVERAGE DAILY TRAFFIC 1000  
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 1%  
 (19) BYPASS, DETOUR LENGTH 2 KM

## \*\*\*\*\* GEOMETRIC DATA \*\*\*\*\*

(48) LENGTH OF MAXIMUM SPAN 4 M  
 (49) STRUCTURE LENGTH 8.5 M  
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M  
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 7.1 M  
 (52) DECK WIDTH OUT TO OUT 7.3 M  
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.7 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 7.1 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 = 64.5

STATUS =

HEALTH INDEX = 91.87

## \*\*\*\*\* CLASSIFICATION \*\*\*\*\* CODE

(112) NBIS BRIDGE LENGTH - YES Y  
 (104) HIGHWAY SYSTEM - NOT ON NHS 0  
 (26) FUNCTIONAL CLASS - LOCAL URBAN 19  
 (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 6  
 (61) CHANNEL & CHANNEL PROTECTION 8  
 (62) CULVERTS N

## \*\*\*\*\* LOAD RATING AND POSTING \*\*\*\*\* CODE

(31) DESIGN LOAD - OTHER OR UNKNOWN 0  
 (63) OPERATING RATING METHOD - ALLOWABLE STRESS 2  
 (64) OPERATING RATING - 28.1  
 (65) INVENTORY RATING METHOD - ALLOWABLE STRESS 2  
 (66) INVENTORY RATING - 19.9  
 (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 5  
 (68) DECK GEOMETRY 4  
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N  
 (71) WATER ADEQUACY 8  
 (72) APPROACH ROADWAY ALIGNMENT 6  
 (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 1000  
 (115) YEAR OF FUTURE ADT 2015

## \*\*\*\*\* 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-M18 (REV. 2/93)

Bridge Number 55C-168

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

Date of Investigation July 19, 1995

**TYPE OF INVESTIGATION/REPORT**

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

Name HANDY CREEK (Amapola Avenue, 0.2 mile east of Orange Park Boulevard)

**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 A3 is appropriate.

CONDITION OF STRUCTURE:

- A. The bottom 0.6 m of both wooden diagonal bracings of bent 2 have decayed and deteriorated.
- B. Repair of undermined area adjacent to the southwest corner of the bridge is in progress.

WORK RECOMMENDED:

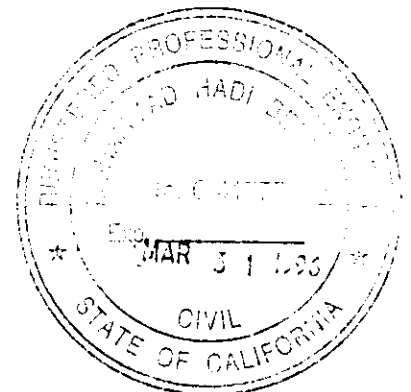
- 1. Replace both wooden diagonal bracing.

ENCROACHMENT:

One 50 mm diameter welded steel pipe (So. Cal. Gas) attached to south rail post.

By M. Hadi Behrooj  
G. P. Balinghasay

GPB:ms  
cc: CDHarris  
Orange County  
WLindsey





INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0168	01	071995
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]

08/03/95

BY:

Bridge No. 55C-168

Name HANDY CREEK (Amapola Avenue, 0.2  
mile east of Orange Park  
Boulevard)

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

## SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-19-95	One 50 mm diameter welded steel pipe (So. Cal. Gas) attached to south rail post.

HBD M 30

Bridge Number 55C-168

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE       
CATEGORY A      OTHER       
UNDERWATER      OFFICE     

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

Date of Investigation April 15, 1993

Name HANDY CREEK (Amapola Avenue, 0.2 mile east of Orange Park Boulevard)

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
55C0168	01	041593
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

DS-M38 (REV. 1/91)

14V53

Bridge No. 55C - 168

Location 12 - Ora - CR

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 17, 1991

Name HANDY CREEK (Amapola Avenue, 0.2 mile east of Orange Park Blvd.)

Lat. 33° - 48.1'N Long. 117° - 46.7'W

Custodian County of Orange

Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1937 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: 2 span simply supported treated timber stringers and timber deck supported by treated timber post bent and post bent abutments with timber sheathing, all on treated timber sill.

Spans (W) 2 @ 13' (E)

Length 28' 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 Unknown Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (S) 0.3'br. 23.3' 0.3'br (N)

Total Width 24' Net Width 23.3' Lanes 2 Tracks None

Median None Rail Type Metal beam

0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 22'

Deck Type 8 Wearing Surface/Prot. Sys. 600 AC/none

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

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

Lanes Tracks

Facilities Crossed Handy Creek Storm Channel (E08S06)

April 17, 1991

## DESCRIPTION - HYDRAULICS

Channel Natural earth channel

Navigable: Yes ☐ No ☒ Clearances: Vert. Horiz.Pier/Abutment Protection (For Navigation) ☐

## TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	1,000 Est	1991	N	
Average Daily Traffic (Future) :	1,000 Est	2010	N	
Average Daily Trucks ( % OF ADT ) :	1% Est		N	
Bypass Detour Length	1 mile		N	
Shell Route:	No		No	
Functional Classification :	19		N	
LOAD RATINGS:	Inventory 21 T (Type 3)	Operating	29 T (Type 3)	
	Permit GGGGG	Computation Method	MMIB, 1974	

## CONDITION RATINGS:

Deck	6	Superstructure	6	Substructure	6
Channel & Channel Protection	8	Culvert	N	Widenable	No

## APPRAISAL RATINGS:

Waterway Adequacy	8	Approach Roadway Alignment	6
-------------------	---	----------------------------	---

Date of Revisions

## CONDITION OF STRUCTURE:

Condition of the structure is satisfactory.

## ENCROACHMENT:

2" welded steel pipe supported on center bent cap outside of south exterior.

Henry Ma

HM:ms

cc: INagai (2)  
County of Orange

Bridge No. 55C-168  
Location 12-Ora - CR  
Dist. Co. Rte. City  
Date of Investigation 4-13-89

Name HANDY CREEK (Amapola Avenue, 0.7 mile West of Santiago Canyon Road)

CONDITION RATING:

Deck 6 Superstructure 6 Substr.&Pipes 6  
Channel & Channel Protection 6 Culvert N Widenable? No

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE           
CATEGORY A          OTHER           
UNDERWATER          OFFICE         

CONDITION OF STRUCTURE:

Condition of the structure is fair.

REVISION:

Location: 12-Ora-CR

Name: HANDY CREEK (Amapola Avenue, 0.7 mile west of Santiago Canyon Road)

WORK RECOMMENDED:

None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

2 treated timber pile bent abutments with treated timber sheathing.

1 treated timber pile bent.

  
Henry Ma

HM:ms

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



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**SUPPLEMENTARY BRIDGE REPORT**  
DH-05 M19 (REV. 1/74)

Bridge No. 55C-168  
Location 7-Oran-CR  
Dist - Co - Rte - PM - City  
Date of Investigation April 14, 1987

Name HANDY CREEK (Amapola Ave., 0.2 mile W. of Santiago Cyn Rd)

**CONDITION RATING:**

Deck 6 Superstructure 6 Substr. & Pipes 6 Overall 6  
Channel & Channel Protection 6 Retaining Walls N

**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

**CONDITION OF STRUCTURE:**

Broken timber diagonal bracing of the center bent previously reported remains the same. 0

Otherwise, overall condition of the structure is good.

**RECOMMENDED POSTING:**

None

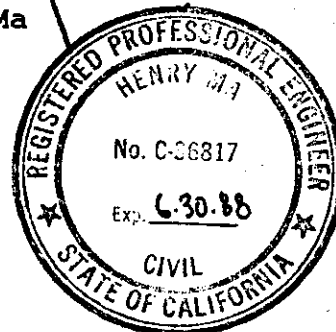
**WORK RECOMMENDED:**

None

HM:pht

cc: INagai (2)  
Orange County (2)

Henry Ma





STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
SUPPLEMENTARY BRIDGE REPORT  
DH-OS 112 (REV. 1/74)

Bridge No. 55C-168  
Location 7-Ora-CR  
Date of Investigation January 8, 1986

Name HANDY CREEK (Amapola Ave., 0.2 mile W. of Santiago Cyn. Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 6 Superstructure 6 Substr. & Pipes 6 Overall 6  
Channel & Channel Protection 6 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

WORK NOT DONE:

The previously recommended work to replace the 3" x 10" timber diagonal cross braces at the bent has not been done.

REVISION:

Rail Type - Metal Beam (0000)

ENCROACHMENT:

2" steel pipe(gas) attached to south exterior.

CONDITION OF STRUCTURE:

The overall condition of the structure is fair.

RECOMMENDED POSTING:

None

WORK RECOMMENDED:

Replace the timber bracing at the bent.

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

Henry Ma  
C-36817

C

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**SUPPLEMENTARY BRIDGE REPORT**  
DH-OS 119 (REV. 1/74)

Bridge No. 55C-168  
Location 7-Ora-CR  
Dist - Co - Rte - PM - City  
Date of investigation September 29, 1983

Name HANDY CREEK (Amapola Ave., 0.2 mile W. of Santiago Cyn. Rd.)

**CONDITION RATING:**

**APPRAISAL RATING:**

Deck 6 Superstructure 6 Substr. & Pipes 6 Overall 6  
Channel & Channel Protection 6 Retaining Walls N

Widenable? Yes ☐ No ☐ Conditional ☒

Action Required by County ~~District~~ Yes ☒ No ☐

PRIORITY

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

**WORK NOT DONE:**

The previously recommended work to replace the 3" X 10" timber diagonal cross braces at the bent has not been done.

**CONDITION OF STRUCTURE:**

The overall condition of the structure is fair.

**RECOMMENDED POSTING:**

None

**RECOMMENDATION:**

Replace the timber bracing at the bent.

C

*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-05 MIS (REV. 1/74)

Bridge No. 55C-168  
Location 07-Oran-CR  
Dist - Co - Rte - PM - City  
Date of Investigation July 29, 1981

Name HANDY CREEK (Amapola Ave., 0.2 mile west of Santiago Canyon Rd.)

CONDITION RATING:

APPRAISAL RATING:

Deck 6 Superstructure 6 Substr. & Pipes 6 Overall 6  
Channel & Channel Protection 6 Retaining Walls (N)

Widenable? Yes ☐ No ☐ Conditional ☐

Action Required by <sup>County:</sup> District ~~District~~ Yes ☐ No ☐

WORK DONE:

The previously recommended work has not been done, i.e., replace the 3" x 10" bracing at the bent.

CONDITION OF STRUCTURE:

There is no change and the overall condition of the structure is fair.

RECOMMENDED POSTING:

None.

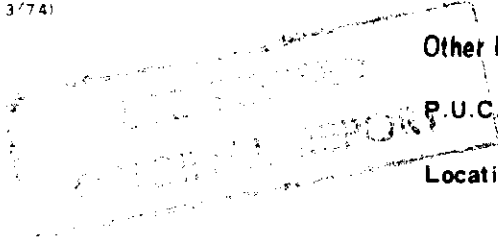
RECOMMENDATION:

Replace the 3" x 10" cross bracing at the bent.

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

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**BRIDGE REPORT**  
DHQS M58 (REV. 3/74)



Bridge No. 55C-168  
Other No. M-79  
P.U.C. No. \_\_\_\_\_  
Location 07-Oran-O-CR  
Dist - Co - Rte - PM - City  
Date of Investigation May 3, 1978

Name HANDY CREEK (AMAPOLA AVE., 0.7 mi W. of Santiago Canyon Rd.)  
Lat. 33°-48.1' Long. 117°-46.7'

**STRUCTURAL DATA AND HISTORY**

Year Built 1937 By Orange County Contract No. Unknown  
Date of Revisions \_\_\_\_\_  
Designed by: B.D. ☐ County Plans Avail. @ County

Description: 2 span simply supported 19 timber stringers, 6 timber post abutments with timber bulkhead and 6 timber post bent, all supported on 6"x10" sill. All timber treated Douglas Fir.

Spans 2 @ 13'  
Length 28' Skew None Design LL ---  
Ratings: Inventory 21.5T(Type 3) Operating 29.7T(Type 3) Permit 00000

**DESCRIPTION - ON STRUCTURE**

Bridge Width 23'  
Total Width 24.0' Lanes 2 Tracks None  
Median None Rail Type Timber (0000)  
Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 23'  
Wearing Surface 2 1/2" AC 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 Handy Creek

Bridge No. 55C-168  
Date May 3, 1978

DESCRIPTION — HYDRAULICS

Channel Natural

Navigable: Yes ☐ No ☒ Clearances: Vert. \_\_\_\_\_ Horiz. \_\_\_\_\_

MAINTENANCE

Custodian \_\_\_\_\_ County \_\_\_\_\_ Owner \_\_\_\_\_ County \_\_\_\_\_

ORIGINAL  
CONDITION RATING

Deck	<u>6</u>
Superstructure	<u>6</u>
Substructure & Pipes	<u>6</u>
Channel & Channel Protection	<u>6</u>
Retaining Walls	<u>---</u>
Approach Rdwy. Alignment	<u>6</u>
Estimated Remaining Life	<u>15</u>

ORIGINAL  
APPRAISAL

Overall	<u>6</u>
Deck Geometry	<u>3</u>
Underclearances	Vert. <u>---</u>
	Horiz. <u>---</u>
Safe Load Capacity	<u>5</u>
Waterway Adequacy	<u>6</u>
Approach Rdwy. Alignment	<u>9</u>

Widenable? Yes ☒ No ☐ Conditional ☐ (1978)  
Average Daily Traffic: 800  
By Pass Detour Length: 03

County XXXXXX  
Action Required by District: Yes ☒ No ☐

CONDITION OF STRUCTURE:

The 3"x10" bracing at the bent has deteriorated.

LOAD CAPACITY:

Hand calculated from field measurements.

WORK RECOMMENDED:

Replace 3"x10" bracing at the bent.

J. R. Martin

Original signed by

By C. E. Broussard

CEB:mb  
cc: Dist. 07 Local Ass't  
Orange County (2)