
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 : 55C0180
Facility Carried: SILVERADO CYN RD
Location : 2.7 MI E OF SANTIAGO RD
City :
Inspection Date : 29-MAY-01

Bridge Inspection Report

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

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : 1971
Year Widened : N/A
Length (m) : 16.2

Skew (degrees): 64
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Single span CIP/RC rigid frame slab, all supported upon spread footings.

Span Configuration : (W) 1 @ 7.3 m (E) clear, normal

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20

Inventory Rating : 81.6 metric tons

Operating Rating : 99.9 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) 1.2 m min deck, 0.3 m br, 2 @ 3.8 m, 0.3 m br, 1.5 m min deck (N)

Total Width : 11.0 m

Net Width : 7.60 m

No. of Lanes : 2

Rail Description : MBGR

Rail Code : 0000

Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with a cobbled bottom.

CONDITION OF STRUCTURE

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 39		Concrete Slab - Unprotected w/ AC Overlay	2	60 sq.m.	60	0	0	0	0
01 215		Reinforced Conc Abutment	3	44 m.	44	0	0	0	0
01 330		Metal Bridge Railing - Uncoated	2	34 m.	34	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0180

Location: 2.7 MI E OF SANTIAGO RD

Inspection Date: 29-MAY-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut: DSM&I
Makoto Ogata: ABME, South

Bridge No.: 55C0180 Location: 2.7 MI E OF SANTIAGO RD Inspection Date: 29-MAY-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0180
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 40 000000
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - SILVERADO CYN CREEK
 (7) FACILITY CARRIED - SILVERADO CYN RD
 (9) LOCATION - 2.7 MI E OF SANTIAGO RD
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 44 MIN 49 SEC
 (17) LONGITUDE 117 DEG 37 MIN 51 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - CONCRETE
 TYPE - SLAB CODE 1 01
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 1
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE CIP CONCRETE CODE 1
 (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 1971
 (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 2000
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 199 KM

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

(48) LENGTH OF MAXIMUM SPAN 16.2 M
 (49) STRUCTURE LENGTH 16.2 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 7.6 M
 (52) DECK WIDTH OUT TO OUT 11 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 7 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 64 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 7.6 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 = 61.3 *****

STATUS =

HEALTH INDEX = 100

***** 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 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 - 99.9
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 81.6
 (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 4
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 6
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES 8

***** 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 2000
 (115) YEAR OF FUTURE ADT 2015

***** INSPECTIONS *****

(90) INSPECTION DATE 05/01 (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)



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0180
Facility Carried: SILVERADO CYN RD
Location : 2.7 MI E OF SANTIAGO RD
City :
Inspection Date : 08-DEC-00

Bridge Inspection Report

Inspection Type

Routine	Group A	Underwater	Special	Other
☐	☐	☐	☐	☒

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : 1971	Skew (degrees): 64
Year Widened : N/A	No. of Joints : 0
Length (m) : 16.2	No. of Hinges : 0

Description of Structure : Single span CIP/RC rigid frame slab, all supported upon spread footings.

Span Configuration : (W) 1 @ 7.3 m (E) clear, normal

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20	
Inventory Rating : 81.6 metric tons	Calculation Method : LOAD FACTOR
Operating Rating : 99.9 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) 1.2 m min deck, 0.3 m br, 2 @ 3.8 m, 0.3 m br, 1.5 m min deck (N)	
Total Width : 11.0 m	Net Width : 7.60 m
Rail Description : MBGR	No. of Lanes : 2
Min. Vertical Clearance : Unimpaired	Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth with a gravel bottom.

HISTORY

This is a single span structure and past Supplementary Bridge Reports do not indicate problems pertaining to scour.

REVISIONS

The National Bridge Inspection Item 113 Code has been revised from 6 to 8.

SCOUR

This report addresses hydraulic issues only. The structure's scour potential has been assessed in accordance with the FHWA Technical Advisory T5140.23, "Evaluating Scour at Bridges." The NBI Item 113, "Vulnerability to Scour," is changed to 8: "Bridge foundation determined to be stable for assessed or calculated scour conditions; calculated scour is above top of footing".

This report was generated based on an office review.

This is a single span structure with no history of hydraulic concerns.

MISCELLANEOUS

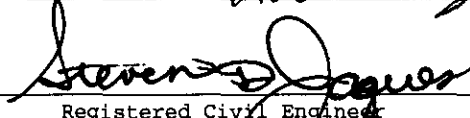
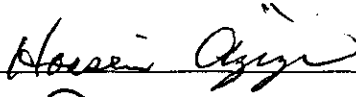
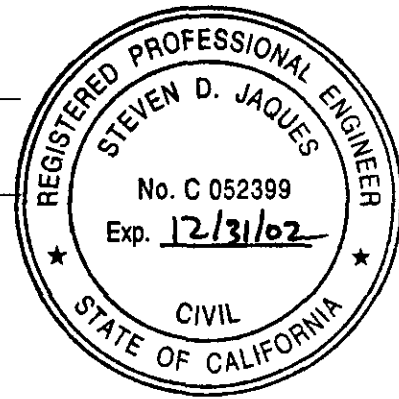
No as-built plans have been found in Caltrans database. A request for as-built plans will be sent to the Orange County.

Bridge No.: 55C0180

Location: 2.7 MI E OF SANTIAGO RD

Inspection Date: 08-DEC-00

Inspected By : Hossein Azizi


Registered Civil Engineer

CC : TMRut: DSM&I
Makoto Ogata: ABME, South
Steve Jaques: Hyd

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 2/93)

Bridge Number 55C-180

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

Date of Investigation July 5, 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 SILVERADO CANYON CREEK (Silverado Canyon Road, 2.7 miles east of Santiago Canyon Road)

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:

- A. Upstream and downstream of bridge is covered with heavy growth of bamboo reed.
- B. There are missing wooden blocks between wood posts and metal beam guard railing at various locations.
- C. Bolts anchoring west end of the north railing (3 meters long) have sheared off.

Condition of structure is good.

WORK RECOMMENDED:

- 1. Reinstall wood blocks between metal beam guard rail and wooden posts at various locations.
- 2. Install bolts for location "C".

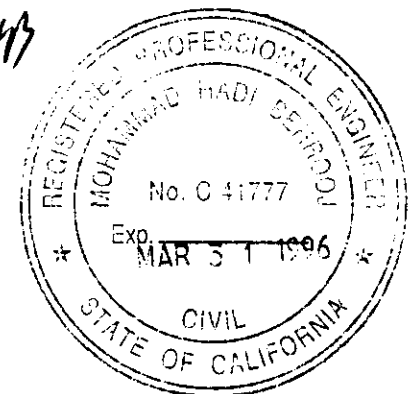
ENCROACHMENTS:

One 0.25 m cement coated pipe on top of deck outside of south bridge rail.

M. Hadi Behrooj ^{H4173}

By

G. P. Balinghasay



GPB:cd
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	

07/11/95

BY: GPB

Bridge No. 55C-180

Name SILVERADO CANYON CREEK (Silverado
Canyon Road, 2.7 miles east of
Santiago Canyon Road)

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

SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-5-95	1 - 0.25 m cement coated pipe on top of deck outside of south bridge rail.

HBD M 30

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

Bridge Number 55C-180

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

Date of Investigation April 21, 1993

TYPE OF INVESTIGATION/REPORT			
BIENNIAL	<u>X</u>	DAMAGE	___
CATEGORY A	___	OTHER	___
UNDERWATER	___	OFFICE	___

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 2.7 miles east of Santiago Canyon Road)

CONDITION RATINGS:

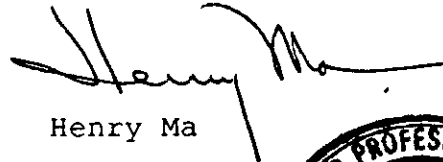
Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

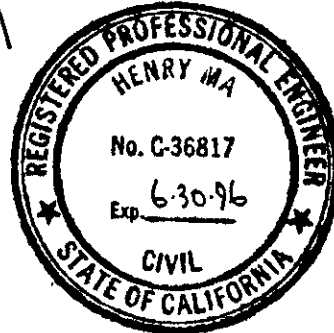
8

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
55C0180	01	042193
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]

H. MA

BY:

BRIDGE REPORT

DS-M38 (REV. 1/91)

14W14

Bridge No. 55C - 180

Location 12 - Ora - CR

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 18, 1991

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 2.7 miles
east of Santiago Canyon Road)

Lat. 33° - 44.8'N Long. 117° - 37.9'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1971 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: Single span CIP RC rigid frame slab on spread footing.

Spans (W) 24' clear, normal (E)

Length 53' NBIS Bridge Length Yes Skew 64° Right

Number Of Intermediate Joints: @Hinges None @Bents None

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

Design Live Load H20-S16-44 Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (S) 4' min PCC deck, 1' br, 25', 1' br, 5' min PCC deck (N)

Total Width 36' min Net Width 25' Lanes 2 Tracks None

Median None Rail Type Metal beam

0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 23'

Deck Type 1 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 Silverado Canyon (E17)

April 18, 1991

DESCRIPTION - HYDRAULICS

Channel Natural stream with gravel bottom

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

TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	2,000	1989	N	
Average Daily Traffic (Future) :	2,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	1% Est		N	
Bypass Detour Length	99 miles		N	
Shell Route:	No		No	
Functional Classification :	09		N	
LOAD RATINGS:	Inventory HS 50	Operating HS 84		
	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	6
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Date of Revisions

CONDITION OF STRUCTURE:

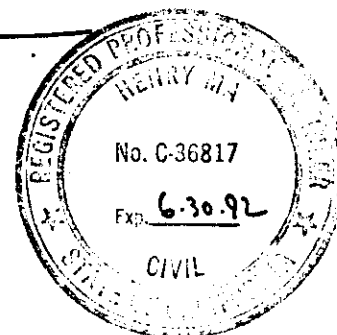
Condition of the structure is good.

ENCROACHMENT:

9" cement coated pipe on top of deck outside of south bridge rail.

Henry Ma

HM:ms

cc: INagai (2)
County of Orange

Bridge No. 55C-180
Location 12-Ora - CR
Dist. Co. Rte. City
Date of Investigation 4-11-89

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 2.7 miles East of Santiago Canyon Road)

CONDITION RATING:

Deck 8 Superstructure 8 Substr.&Pipes 8
Channel & Channel Protection 6 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-CR

WORK RECOMMENDED:

None.

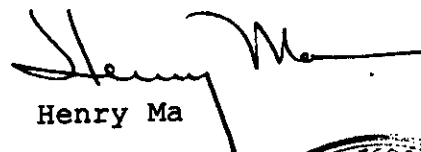
RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

Single span structure.

2 RC strutted abutments on spread footing.


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-180
Location 7-Ora-CR
Dist - Co - Rte - PM - City
Date of Investigation April 20, 1987

Name SILVERADO CANYON CREEK (Silverado Canyon Rd, 2.7 miles E. of Santiago Cyn Rd.)

CONDITION RATING:

Deck	<u>8</u>	Superstructure	<u>8</u>	Substr. & Pipes	<u>8</u>	Overall	<u>8</u>
Channel & Channel Protection	<u>6</u>	Retaining Walls	<u>N</u>				

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 - 2,000 (1985)

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-05 M19 (REV. 1/74)

Bridge No. 55C-180
Location 7-Oran-CR
San Joaquin Co. - Fresno Co.
Date of Investigation January 8, 1986

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 2.7 mile E. of
Santiago Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 6 Retaining Walls 8

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:

The overall condition of the structure is good.

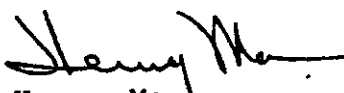
RECOMMENDED POSTING:

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-180
Location 7-Oran-CR
Dist - Co - Hwy - Pct - City
Date of Investigation October 26, 1983

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 2.7 mile E. of Santiago Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 6 Retaining Walls 8

Widenable? Yes ☒ No ☐ Conditional ☐
County
Action Required by RRRKK Yes ☐ No ☒

PRIORITY

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

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-OS M19 (REV. 1/74)

Bridge No. 55C-180
Location 07-Oran-CR
Dist - Co - Rte - PM - City
Date of Investigation October 19, 1981

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 2.7 miles east of Santiago Canyon Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 6 Retaining Walls (8)

Widenable? Yes ☒ No ☐ Conditional ☐

County:
Action Required by ENGINEER 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)

Bridge No. **SSC-180**
Other No. **SV-9**
P.U.C. No. _____

Location **07-02a-0-CR**
Dist - Co - Rte - PM - City

Date of Investigation **May 18, 1978**

**SEE REVISED
ORIGINAL REPORT**

Name **SILVERADO CANYON CREEK (Silverado Canyon Road 2.7 mi. E. Santiago Canyon Road)**
Lat. **33°-44.8'** Long. **117°-37.9'**

STRUCTURAL DATA AND HISTORY

Year Built **1971** By **Orange County** Contract No. **--**

Date of Revisions _____

Designed by: B.D. ☐ _____ County _____ Plans Avail. @ _____ County

Description: **Single span RC rigid frame slab culvert, supported on spread footings.**

Spans **24' clear**

Length **53'** Skew **64° rt** Design LL **H20-S16-44**

Ratings: Inventory **MS 50.8/LF** Operating **MS 84.6/LF** Permit **PPPPP/LF**

DESCRIPTION - ON STRUCTURE

Bridge Width **26'**

Total Width **113'** Lanes **2** Tracks **None**

Median **None** Rail Type **MSGR (0000)**

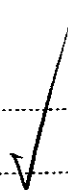
Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **26'**

Wearing Surface **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 **Silverado Canyon Creek**

cc:

(1) CON'T.

Bridge No. **SSC-180**

Date **May 18, 1978**

DESCRIPTION - HYDRAULICS

Channel **Natural**

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

MAINTENANCE

Custodian **Orange County**

Owner **Orange County**

ORIGINAL
CONDITION RATING

Deck	<u>8</u>
Superstructure	<u>8</u>
Substructure & Pipes	<u>8</u>
Channel & Channel Protection	<u>6</u>
Retaining Walls	<u>--</u>
Approach Rdwy. Alignment	<u>7</u>
Estimated Remaining Life	<u>50</u>

ORIGINAL
APPRAISAL

Overall	<u>8</u>
Deck Geometry	<u>4</u>
Underclearances	Vert. <u>--</u>
	Horiz. <u>--</u>
Safe Load Capacity	<u>9</u>
Waterway Adequacy	<u>8</u>
Approach Rdwy. Alignment	<u>9</u>

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by District: **XXXXX County** Yes ☐ No ☒

AVERAGE DAILY TRAFFIC: 1000 *

EXCESS DETOUR LENGTH: 99

ENCROACHMENTS: 10" cement coated steel water line laying across south portal.

CONDITION OF STRUCTURE: The structure is in good condition.

LOAD CAPACITY: Calculated by the Office of Structures rating section.

J. R. Martin

Original Signed by

by C. E. Brunsard

CMB:sub
env District 07-Local Assistance
Orange County (2)