
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 : 55C0178
Facility Carried: SILVERADO CYN RD
Location : 4.9 MI E OF SANTIAGO RD
City :
Inspection Date : 29-MAY-01
Inspection Type

Bridge Inspection Report

Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : 1947 Skew (degrees): 45
Year Widened : N/A No. of Joints : 0
Length (m) : 12.8 No. of Hinges : 0

Description of Structure : Simply supported single span steel girders (4 each) with RC open end seat abutments, all supported upon spread footings.

Span Configuration : (W) 1 @ 12.5 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : M - 13.5 OR H - 15
Inventory Rating : 25.4 metric tons Calculation Method : LOAD FACTOR
Operating Rating : 40.8 metric tons Calculation Method : LOAD FACTOR
Permit Rating : PGGGG
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) 0.5 m br, 2 @ 3.6 m, 0.5 m br (N)
Total Width : 8.2 m Net Width : 7.30 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 northwest quadrant.

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 12		Concrete Deck - Bare	2	90 sq.m.	90	0	0	0	0
01 107		Painted Steel Open Girder/Beam	2	52 m.	52	0	0	0	0
01 215		Reinforced Conc Abutment	2	24 m.	24	0	0	0	0
01 337		Metal Railing (W6X25 Posts)	2	26 m.	26	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0178

Location: 4.9 MI E OF SANTIAGO RD

Inspection Date: 29-MAY-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut, DSM&I
Orange County

Bridge No.: 55C0178

Location: 4.9 MI E OF SANTIAGO RD

Inspection Date: 29-MAY-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0178
 (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 - 4.9 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 45 SEC
 (17) LONGITUDE 117 DEG 36 MIN 21 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - STEEL
 TYPE - STRINGER/MULTI-BEAM OR GDR CODE 3 02
 (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 - CONCRETE CODE 1
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

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

(27) YEAR BUILT 1947
 (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 12.5 M
 (49) STRUCTURE LENGTH 12.8 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 7.3 M
 (52) DECK WIDTH OUT TO OUT 8.2 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.4 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 45 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 7.3 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
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING = 54.0 *****

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 - M - 13.5 OR H - 15 2
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 40.8
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 25.4
 (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 6
 (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 : 55C0178
 Facility Carried: SILVERADO CYN RD
 Location : 4.9 MI E OF SANTIAGO RD
 City :
 Inspection Date : 11-DEC-00
Inspection Type
 Routine ☐ Group A ☐ Underwater ☐ Special ☐ Other ☒

Bridge Inspection Report

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : 1947 Skew (degrees): 45
 Year Widened : N/A No. of Joints : 0
 Length (m) : 12.8 No. of Hinges : 0

Description of Structure : Simply supported single span steel girders (4 each) with RC open end seat abutments, all supported upon spread footings.

Span Configuration : (W) 1 @ 12.5 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : M - 13.5 OR H - 15
 Inventory Rating : 25.4 metric tons Calculation Method : LOAD FACTOR
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 Permit Rating : PGGGG
 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) 0.5 m br, 2 @ 3.6 m, 0.5 m br (N)
 Total Width : 8.2 m Net Width : 7.30 m No. of Lanes : 2
 Rail Description : MBGR Rail Code : 0000
 Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth with a gravel bottom.

HISTORY

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 Code, "Vulnerability to Scour", has been changed to 8: "Bridge foundations 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 investigation. A channel cross section was not taken at the time of this report.

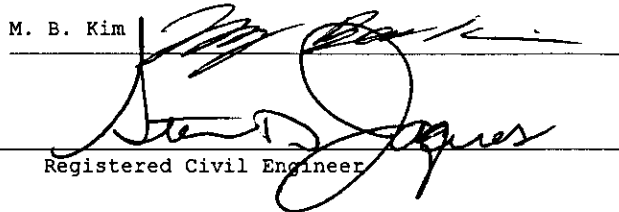
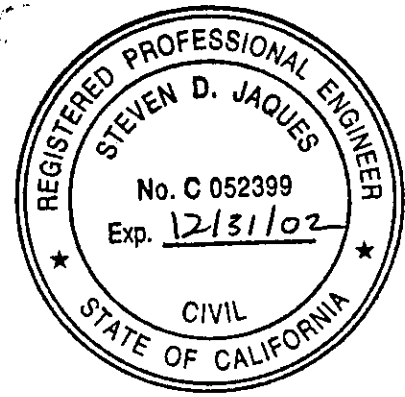
The structure consists of a single span bridge with no history of scour.

Bridge No.: 55C0178

Location: 4.9 MI E OF SANTIAGO RD

Inspection Date: 11-DEC-00

Inspected By : M. B. Kim


Registered Civil Engineer

CC : TMRut, DSM&I
Orange County
MOgata, ABME
SJaques, Hydraulics

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 2/93)

Bridge Number 55C-178

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, 4.9 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:

There is light transverse cracking in bridge deck.

Condition of structure is good.

WORK RECOMMENDED:

None.

ENCROACHMENT:

One 0.225 m diameter welded steel pipe suspended outside of south railing.

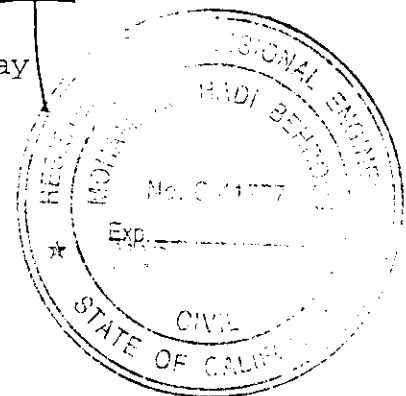
M. Hadi Behrooj

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	

07/20/95

BY:

Bridge No. 55C-178

Name SILVERADO CANYON CREEK (Silverado
Canyon Road, 4.9 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 - 0.225 m diameter welded steel pipe suspended outside of south railing.

HBD M 30

Bridge Number 55C-178

TYPE OF INVESTIGATION/REPORT

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

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

Date of Investigation April 21, 1993

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.9 miles east of Santiago Canyon Road)

CONDITION RATINGS:

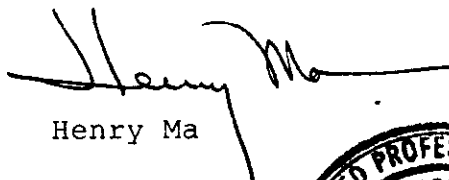
Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

8

CONDITION OF STRUCTURE:

Condition of the structure is good.


Henry Ma

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



INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0178	01	042193
1	9	11
8		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)

14W15

Bridge No. 55C - 178

Location 12 - Ora - CR
Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 18, 1991

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.9 miles
east of Santiago Canyon Road)

Lat. 33° - 44.8'N Long. 117° - 36.3'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1947 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: Single span simply supported steel stringers and RC deck
supported by open end RC seated abutments on spread footing.

Spans (W) 41' (E)

Length 42' NBIS Bridge Length Yes Skew 45° Right

Number Of Intermediate Joints: @Hinges None @Bents None

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

Design Live Load H15 Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (S) 1.5'br 24' 1.5'br (N)

Total Width 27' Net Width 24' Lanes 2 Tracks None

Median None Rail Type (S) Timber (N) Metal beam

0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 21'

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 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 16	Operating HS 25		
	Permit PGGGG	Computation Method Load Factor		

CONDITION RATINGS:

Deck	7	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:

There is light transverse cracking in the concrete bridge deck.

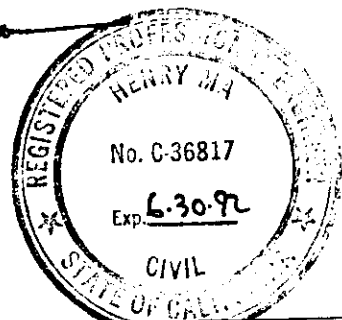
Condition of the structure is good.

PAINT CONDITION:

Code 2. Condition of paint is good.

Henry Ma

HM:ms

cc: INagai (2)
County of Orange

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 1/89)

Bridge No. 55C-178

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

Date of Investigation 4-11-89

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.9 miles East of Santiago Canyon Road)

CONDITION RATING:

Deck 7 Superstructure 7 Substr.&Pipes 7

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.

PAINT CONDITION:

Code 1. Structural steel was recently painted. Condition of paint is excellent.

REVISION:

Location: 12-Ora-CR

WORK RECOMMENDED:

None.

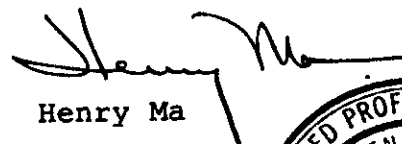
RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

Single span structure.

2 RC open end seated 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 115 (REV. 1/74)

Bridge No. 55C-178
Location 7-Ora-CR
Dist - Co - Rte - PM - City
Date of Investigation April 21, 1987

Name SILVERADO CANYON CREEK (Silverado Canyon Rd., 4.9 miles E. of Santiago Cyn Rd.)

CONDITION RATING:

Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 4
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

REVISION:

Appraisal Rating: Overall 4

Average Daily Traffic - 1,000 (Estimated 1987)

WORK DONE:

Steel stringers have been repainted 100% .

CONDITION OF STRUCTURE:

Overall condition of the structure is good.

CONDITION OF PAINT:

Code 1 - Condition of paint is in excellent. Structural steel was recently repainted.

RECOMMENDED POSTING:

None

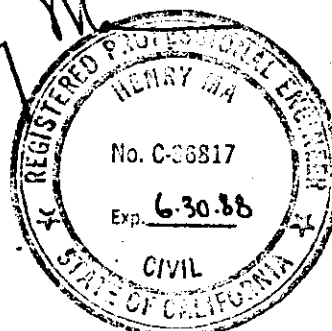
WORK RECOMMENDED:

None

HM:pht

cc: INagai (2)
Orange County (2)

Henry Ma



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

Bridge No. 55C-178
Location 7-Orca-CR
San Joaquin Co. - Fresno Co.
Date of Investigation January 8, 1986

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.9 miles E. of Santiago Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 7
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

REVISION:

Revised Rail Type - Timbers (S) (0000)
Metal Beam (N) (0000)

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

PAINT:

Code 5, there is rust on edges and bottoms of the bottom flanges. Also the paint is weathered off from webs and bottom flanges. Some paint loss may have been caused by vandalism.

RECOMMENDED POSTING:

None

WORK RECOMMENDED:

None

RECOMMENDATION:

Program for cleaning and painting of structural steel.

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

Henry Ma
Henry Ma
C-36817

B

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

14214
Bridge No. 55C-178
Location 7-Oran-CR
Dist - Co - Rte - PM - City
Date of Investigation October 26, 1983

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.9 miles E. of
Santiago Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 7
Channel & Channel Protection 6 Retaining Walls N

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

PAINT:

Code 4, there is light rust on the bottom flanges.

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-178
Location 07-0ra-CR
Dist - Co - Rte - PM - City
Date of Investigation October 19, 1981

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.9 miles east of Santiago Canyon Rd.)

CONDITION RATING:

APPRAISAL RATING:

Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 7
Channel & Channel Protection 6 Retaining Walls (N)

Widenable? Yes ☒ No ☐ Conditional ☐
County:
Action Required by District Yes ☐ No ☒

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

PAINT:

Code 4, light rust on bottom flange.

RECOMMENDED POSTING:

None.

E. L. Neff

E. L. Neff
C 28703

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

Bridge No. 55C-178

Other No. SV-12

P.U.C. No. _____

Location 07-090-0-CR
Dist - Co - Rte - PM - City

Date of Investigation May 5, 1978

Name SILVERADO CANYON CREEK (Silverado Cyn Rd., 4.9 mi E. Santiago Cyn Rd.)

Lat. 33°-44.8' Long. 117°-36.3'

STRUCTURAL DATA AND HISTORY

Year Built 1947 By Orange County Contract No. -----

Date of Revisions _____

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

Description: Single span 4 WF steel girders, RC diaphragm
abutments supported on spread footings.

Spans 41'

Length 42' Skew 45° Rt Design LL H-15

Ratings: Inventory HS 16.11 Operating HS 24.72 Permit PO000

DESCRIPTION - ON STRUCTURE

Bridge Width 1.5' cu, 24.0', 1.5' cu

Total Width 26.5' Lanes 2 Tracks None

Median None Rail Type Timber (0000)

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 24'

Wearing Surface None Deck Seal None

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

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

Lanes _____ Tracks _____ Pumpplant: ☐ See Br. No. ✓

Facilities Crossed Silverado Canyon Creek

Bridge No. 55C-178
Date May 5, 1978

DESCRIPTION - HYDRAULICS

Channel Natural

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

MAINTENANCE

Custodian County Owner County

ORIGINAL
CONDITION RATING

Deck	<u>7</u>
Superstructure	<u>7</u>
Substructure & Pipes	<u>7</u>
Channel & Channel Protection	<u>6</u>
Retaining Walls	<u>---</u>
Approach Rdwy. Alignment	<u>7</u>
Estimated Remaining Life	<u>20</u>

ORIGINAL
APPRAISAL

Overall	<u>7</u>
Deck Geometry	<u>3</u>
Underclearances	Vert. <u>---</u>
	Horiz. <u>---</u>
Safe Load Capacity	<u>6</u>
Waterway Adequacy	<u>6</u>
Approach Rdwy. Alignment	<u>9</u>

Widenable? Yes ☒ No ☐ Conditional ☐

AVERAGE DAILY TRAFFIC:

BYPASS DETOUR LENGTH:

PAINT:

CONDITION OF STRUCTURE:

LOAD CAPACITY:

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

500 * (1978)

99

Code 3

The structure is in good condition.

Calculated by the Office of Structures
rating section.

J. R. Martin

Original signed by
By C. E. Broussard

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