

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0185

Facility Carried: OLIVE HILL ROAD

: 50' S/O MODJESKA CYN RD Location

City

Inspection Date: 09/18/2015

Inspection Type

Routine FC Underwater Special Other

| X |

Bridge Inspection Report

STRUCTURE NAME: SANTIAGO CREEK

CONSTRUCTION INFORMATION

Year Built : 1970 Year Widened: N/A Length (m) : 11

Skew (degrees): No. of Joints:

No. of Hinges :

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

footings.

Span Configuration : (S) 1 @ 10.4 m (N) c/c

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: UNKNOWN

Inventory Rating: RF=0.62 =>19.9 metric tons Calculation Method: FIELD EVAL/ENG JUDGMENT Operating Rating: RF=1.03 =>33.2 metric tons

Calculation Method: FIELD EVAL/ENG JUDGMENT

Permit Rating : 00000

Posting Load : Type 3: Legal Type 3S2: Legal Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.1 m br, 4.7 m, 0.1 m br (E)

4.9 m Net Width: 4.7 m Total Width: No. of Lanes: 1 Speed: 25 mph Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 Inches

Rail Code: 1000

Location | Length (ft) | Rail Modifications Rail Type MBBR Right/Left 130

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with a cobbled bottom.

NOTICE

The bridge inspection condition assessment used for this inspection is based on the American Association of State Highway and Transportation Officials (AASHTO) Bridge Element Inspection Manual 2013 as defined in Moving Ahead for Progress in the 21st Century (MAP-21) federal law. The new element inspection methodology may result in changes to related condition and appraisal ratings on the bridge without significant physical changes at the bridge.

The element condition information contained in this report represents the current condition of the bridge based on the most recent routine and special inspections. Some of the notes presented below may be from an inspection that occurred prior to the date noted in this report. Refer to the Scope and Access section of this inspection report for a description of which portions of the bridge were inspected on this date.

INSPECTION COMMENTARY

CONDITION OF STRUCTURE

There is 4" deep and 3 ft wide water in the creeck; all elements were visually inspection by walking on the deck and under the bridge.

MISCELLANEOUS

Caltrans currently does not have a set of AS-Built plans for this structure. The county should provide As-Built Plans.

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55C0185/AAAH/33157

INSPECTION COMMENTARY

SAFE LOAD CAPACITY

A Load Rating Summary Sheet is included with this bridge inspection report. The current rating has been assigned in accordance with SM&I procedures.

The Inventory rating was change from 40 to 19.9 tons

The operation rating was change from 69.8 to33.2 tons

the permit rating was change from PPPPP to 00000.

	/Prot	fect Element Description	Env	Total Qty	Units	_		St. 3	
38		Slab-RC	2	54	sq.m	4	50	0	0
	1080	Delamination/Spall/Patched Area	2	50		0	50	0	0
(38-10									
		eacking 0.5 mm wide at 1 ft spacing the	oughout 2	the d	eck.	14	0	0	0
There 215 (215)	are map cr					14	0	0	0
There 215 (215)	are map cr	Abutment-RC				14	0	0	0

WORK RECOMMENDATIONS

RecDate: 01/13/2003

EstCost:

Repair/replace the damaged metal beam

Action : Railing-Repair

StrTarget: 2 YEARS guard railing (3.0 m) at the

Work By: LOCAL AGENCY

DistTarget:

southeasterly quadrant.

Status : PROPOSED

EA:

CHANNEL X-SECTION			
Side : Upstream Measured From :soffit	X-Section Date: 09/18/2015		
Location	Horiz(m)	Vert(m)	Comments
Abut 1	0.00	1.50	face of abut wall
	5.00	2.00	thalweg
Abut 2	0.00	0.70	face of abut wall

Mikhael T. Zaarour Team Leader :

Report Author : Mikhael T. Zaarour

Inspected By : MT.Zaarour/DH.Kim

Mikhael T. Zaarour (Registered Civil Engineer)



STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		**************************************
(1)	STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 61.5
(8)	STRUCTURE NUMBER 55C0185		STATUS
(5)	INVENTORY ROUTE (ON/UNDER) - ON 140000000		HEALTH INDEX 80.1
	HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = N/A
	COUNTY CODE 059 (4) PLACE CODE 00000		******* CLASSIFICATION ******* CODE
	FEATURE INTERSECTED- SANTIAGO CREEK		NBIS BRIDGE LENGTH- YES Y
	FACILITY CARRIED- OLIVE HILL ROAD		HIGHWAY SYSTEM- NOT ON NHS 0
			FUNCTIONAL CLASS- LOCAL RURAL 09
			DEFENSE HIGHWAY- NOT STRAHNET 0
			PARALLEL STRUCTURE- NONE EXISTS N
			DIRECTION OF TRAFFIC- 1 LANE, 2 WAY 3
	LRS INVENTORY ROUTE & SUBROUTE	(202)	TEMPORARY STRUCTURE-
	LATITUDE 33 DEG 42 MIN 34.04 SEC LONGITUDE 117 DEG 37 MIN 31.68 SEC	, ,	FED.LANDS HWY- NOT APPLICABLE 0
			DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STATE CODE % SHARE %		TOLL- ON FREE ROAD
(99)	BORDER BRIDGE STRUCTURE NUMBER		MAINTAIN- COUNTY HIGHWAY AGENCY 02
	****** STRUCTURE TYPE AND MATERIAL ******		OWNER- COUNTY HIGHWAY AGENCY 02
	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE		HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
,,	TYPE- SLAB CODE 101	(37)	MOTORICID DIGNITICANCE NOT EDIGIBLE
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		********** CONDITION ********** CODE
	TYPE- OTHER/NA CODE 000	(58)	DECK 6
(45)	NUMBER OF SPANS IN MAIN UNIT 1	(59)	SUPERSTRUCTURE 6
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 8
	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61)	CHANNEL & CHANNEL PROTECTION 8
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
	·		+++++++ IOAD DAMING AND DOCMING +++++++ CODE
	TYPE OF WEARING SURFACE- NONE CODE 0 TYPE OF MEMBRANE- NONE CODE 0		****** LOAD RATING AND POSTING ****** CODE
	TYPE OF DECK PROTECTION- NONE CODE 0		DESIGN LOAD- UNKNOWN 0
-,	********* AGE AND SERVICE *********		OPERATING RATING METHOD- FIELD EVAL/ENG JUD 0
(0.7)			OPERATING RATING~ 33.2
	YEAR BUILT 1970		INVENTORY RATING METHOD- FIELD EVAL/ENG JUL 0
	YEAR RECONSTRUCTED 0000	. ,	INVENTORY RATING- 19.9
(42)	TYPE OF SERVICE: ON- HIGHWAY 1 UNDER- WATERWAY 5		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES:ON STRUCTURE 01 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	AVERAGE DAILY TRAFFIC 150		DESCRIPTION- OPEN, NO RESTRICTION
	YEAR OF ADT 2009 (109) TRUCK ADT 1 %		********** APPRAISAL ********* CODE
	BYPASS, DETOUR LENGTH 199 KM		STRUCTURAL EVALUATION 5
(1)			DECK GEOMETRY 2
	************* GEOMETRIC DATA ***********		UNDERCLEARANCES, VERTICAL & HORIZONTAL N
	LENGTH OF MAXIMUM SPAN 10.4 M		WATER ADEQUACY 9
	STRUCTURE LENGTH 11.0 M		APPROACH ROADWAY ALIGNMENT 6
	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M BRIDGE ROADWAY WIDTH CURB TO CURB 4.7 M	(36)	TRAFFIC SAFETY FEATURES 1000
		(113)	SCOUR CRITICAL BRIDGES 8
	DECK WIDTH OUT TO OUT 4.9 M		******* PROPOSED IMPROVEMENTS *******
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 4.9 M BRIDGE MEDIAN 0		
	THE		TYPE OF WORK- SUP/SUB REHAB CODE 35
	SKEW 0 DEG (35) STRUCTURE FLARED NO		LENGTH OF STRUCTURE IMPROVEMENT 11 M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(94)	BRIDGE IMPROVEMENT COST \$51,000
	INVENTORY ROUTE TOTAL HORIZ CLEAR 4.7 M MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(95)	ROADWAY IMPROVEMENT COST \$10,200
, ,		(96)	TOTAL PROJECT COST \$85,680
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		YEAR OF IMPROVEMENT COST ESTIMATE 2013
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M MIN LAT UNDERCLEAR LT 0.0 M	(114)	FUTURE ADT 206
		(115)	YEAR OF FUTURE ADT 2035
	************ NAVIGATION DATA *********		************** INSPECTIONS ***********
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 09/15 (91) FREQUENCY 24 MO
	PIER PROTECTION- CODE	(92)	CRITICAL FEATURE INSPECTION: (93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE 0.0 M	A)	FRACTURE CRIT DETAIL- NO MO A)
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M	B)	UNDERWATER INSP- NO MO B)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M	C)	OTHER SPECIAL INSP- NO MO C)