

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Inspection Report

Bridge Number : 55C0628

Facility Carried: ANTONIO PARKWAY

Location : 0.2 MI. N/O ORTEGA HWY

City

Inspection Date : 08/14/2015

Inspection Type

Routine FC Underwater Special Other

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STRUCTURE NAME: SAN JUAN CREEK

CONSTRUCTION INFORMATION

 Year Built : 1997
 Skew (degrees): 22

 Year Widened: 2013
 No. of Joints : 2

 Length (m) : 236.5
 No. of Hinges : 0

Structure Description: Continuous five span CIP/PS concrete box girder (five cells) with RC

two column bents and with RC closed end seat abutments, all

supported upon driven steel H-piles, and upon CIDH concrete piles.

Widen: Box girder from the west side, one one column bent.

Span Configuration : (S) 38.1 m, 3 @ 53.0 m, 38.1 m (N) c/c

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: $RF=1.00 \Rightarrow 32.4$ metric tons Calculation Method: ASSIGNED (LFD) Operating Rating: $RF=1.67 \Rightarrow 54.1$ metric tons Calculation Method: ASSIGNED (LFD)

Permit Rating : PPPPP

Posting Load : Type 3: <u>Legal</u> Type 3S2: <u>Legal</u> Type 3-3: <u>Legal</u>

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.3 m br, 1.5 m sw; 13.4 m min; (1.2 m - 4.3 m) curbed med.; 13.4 m; 1.4

m sw; 0.4 m br (E).

Total Width: 34.8 m Net Width: 26.8 m No. of Lanes: 6 Speed: 55 mph
Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 Inches

Rail Code: 1110

Rail Type	Location	Length (ft)	Rail Modifications	
Type 26	Right/Left	1672		

DESCRIPTION UNDER STRUCTURE

Channel Description: Wide natural earth trapezoidal channel with heavy vegetation, brush, and trees within the creek.

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

SCOPE AND ACCESS

The inspection was performed by walking the deck and under the structure. All elements have been visually inspected.

SAFE LOAD CAPACITY

INSPECTION COMMENTARY

A Load Rating Summary Sheet dated 05/27/2014 is on file for this structure. The current rating has been assigned in accordance with SM&I procedures.

DI DMDN	T THE DECT	ION RATINGS AND NOTES		La La					
	Defect Def		Env	Total Qty	Unit				on State
16		Top Flange-RC	2	8230	sq.m	1890	6340	0	0
	1130	Cracking (RC and Other)	2	6340		0	6340	0	0
	ncrete decl	exhibits mostly few short longitudi above the bents due to negative mom						5 mm wi	de and
104		Box Girder-PS Conc.	2	472	m	467	5	0	0
	1110	Cracking (PS Conc.)	2	5		0	5	0	0
(104-13 There a		nal hairline crack in span 1, span	3 and s	pan 4	soffit	of the	box gi	rder.	
205		Column-RC	2	12	each	12	0	0	0
(205) There v	were no sig	mificant defects noted.		Rdin.			-		
215		Abutment-RC	2	48	m	48	0	0	0
(215) There w	were no sig	nificant defects noted.							
220		Pile Cap/Footing-RC	2	1	m	1	0	0	0
		is included to indicate the presence l inspection. No indication of pile							
		is included to indicate the presence l inspection. No indication of pile							
252		Pile-CIDH	2	1	ea.	1	0	0	0
		is included to indicate the presence l inspection. No indication of pile							were not element.
303		Joint-Assembly w/ Seal	2	40	m	40	0	0	0
(303) There w	ere no sig	nificant defects noted.							
312		Bearing-Enclosed	2	2	each	2	0	0	0
(312) There w	ere no sig	nificant defects noted.				***************************************			
321		Approach Slab-RC	2	520	sq.m	520	0	0	0
(321) There w	ere no sig	nificant defects noted.							

Elem Defect Defect Ele No. /Prot	ement Description	Env	Total Qty	Units Qty			ondition	
331 Railin	g-RC	2	473	m	473	0	0	(
(331)								_
There were no significant	defects noted.							

WORK RECOMMENDATIONS - NONE

Team Leader : Mikhael T. Zaarour

Report Author : Mikhael T. Zaarour

Inspected By : MT.Zaarour/KD.Henderson

Mikhael T. Zaarour (Registered Civil Engineer) (Dat



STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		**************************************
(1)	STATE NAME- CALIFORNIA 069		STATUS
(8)	STRUCTURE NUMBER 55C0628		
(5)	INVENTORY ROUTE (ON/UNDER) - ON 14000000		HEALTH INDEX 77.6
(2)	HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = N/A
(3)	COUNTY CODE 059 (4) PLACE CODE 00000		******* CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- SAN JUAN CREEK	(112)	NBIS BRIDGE LENGTH- YES Y
(7)	FACILITY CARRIED- ANTONIO PARKWAY	(104)	HIGHWAY SYSTEM- ROUTE ON NHS
	LOCATION- 0.2 MI. N/O ORTEGA HWY		FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
	MILEPOINT/KILOMETERPOINT 0		DEFENSE HIGHWAY- NOT STRAHNET 0
	BASE HIGHWAY NETWORK- PART OF NET 1		PARALLEL STRUCTURE- NONE EXISTS N
3000000	LRS INVENTORY ROUTE & SUBROUTE 00000000000	(===)	DIRECTION OF TRAFFIC- 2 WAY 2
100.00	LATITUDE 33 DEG 31 MIN 20.86 SEC		TEMPORARY STRUCTURE-
	LONGITUDE 117 DEG 37 MIN 11.36 SEC		FED.LANDS HWY- NOT APPLICABLE 0
**********	BORDER BRIDGE STATE CODE % SHARE %		DECTONATED NATIONAL NETWORK
			TOLL- ON FREE ROAD 3
(99)	BORDER BRIDGE STRUCTURE NUMBER		MAINTAIN- COUNTY HIGHWAY AGENCY 02
3	****** STRUCTURE TYPE AND MATERIAL ******		OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE CONT		HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
	TYPE- BOX BEAM OR GIRDER - MULTI CODE 205	,,	TOTAL
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		********* CONDITION ********** CODE
	TYPE- OTHER/NA CODE 000	(58)	DECK 6
(45)	NUMBER OF SPANS IN MAIN UNIT 5	(59)	SUPERSTRUCTURE 8
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 8
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61)	CHANNEL & CHANNEL PROTECTION 8
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS

	TYPE OF WEARING SURFACE- NONE CODE $_{0}$ TYPE OF MEMBRANE- NONE CODE $_{0}$	waner.	****** LOAD RATING AND POSTING ******* CODE
	TYPE OF DECK PROTECTION- NONE CODE 0		DESIGN LOAD- MS-18 OR HS-20 5
	******* AGE AND SERVICE *********		OPERATING RATING METHOD- ASSIGNED (LFD) A
			OPERATING RATING- 54.1
0.0000000000000000000000000000000000000	YEAR BUILT 1997		INVENTORY RATING METHOD- ASSIGNED (LFD) A
12	YEAR RECONSTRUCTED 2013	(66)	INVENTORY RATING- 32.4
(42)	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5 UNDER- WATERWAY 5		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES:ON STRUCTURE 06 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	AVERAGE DAILY TRAFFIC 12135		DESCRIPTION- OPEN, NO RESTRICTION
	YEAR OF ADT 2011 (109) TRUCK ADT 1 %		******* APPRAISAL ********* CODE
	BYPASS, DETOUR LENGTH 10 KM		STRUCTURAL EVALUATION
(1)	The second secon		DECK CEOMEMBA
	********** GEOMETRIC DATA **********		INIDEDGI HADANGEG
	LENGTH OF MAXIMUM SPAN 53.0 M		LIAMED ADDOLLACIA
	STRUCTURE LENGTH 236.5 M		APPROACH ROADWAY ALIGNMENT 8
	CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.4 M		TRAFFIC SAFETY FEATURES 1110
	BRIDGE ROADWAY WIDTH CURB TO CURB 26.8 M		CCOUR CRITETONI PRINCIPA
	DECK WIDTH OUT TO OUT 34.8 M	,,	•
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 26.8 M	2000dn1004010000	******* PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN- CLOSED NON-MOUNTABLE 3	(75)	TYPE OF WORK- CODE
(34)			LENGTH OF STRUCTURE IMPROVEMENT M
18.000	INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(94)	BRIDGE IMPROVEMENT COST
10 100	INVENTORY ROUTE TOTAL HORIZ CLEAR 13.4 M	(95)	ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96)	TOTAL PROJECT COST
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	(97)	YEAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR RI REF- NOI H/RR 0.0 M MIN LAT UNDERCLEAR LT 0.0 M	(114)	FUTURE ADT 21164
		(115)	YEAR OF FUTURE ADT 2035
,	************* NAVIGATION DATA **********		**************************************
(38) 1	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 08/15 (91) FREQUENCY 24 MO
(111)	PIER PROTECTION- CODE		CRITICAL FEATURE INSPECTION: (93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE 0.0 M		FRACTURE CRIT DETAIL- NO MO A)
\$4000000000000000000000000000000000000	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		UNDERWATER INSP- NO MO B)
(40) 1	NAVIGATION HORIZONTAL CLEARANCE 0.0 M		OTHER SPECIAL INSP- NO MO C)
		250.52	