

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0629

Facility Carried: ANTONIO PARKWAY

Location : 0.5 MI. S/O OSO PARKWAY

City

Inspection Date: 01/31/2019

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

STRUCTURE NAME: WILDLIFE UNDERCROSSING

CONSTRUCTION INFORMATION

 Year Built : 1997
 Skew (degrees): 0

 Year Modified: 2008
 No. of Joints : 2

 Length (m) : 71.6
 No. of Hinges : 0

Structure Description: Continuous three span CIP/RC box girder (seven cells) with RC three

column bents, and RC open seat abutments, all supported upon 16.0

inches diameter CIDH concrete piles.

Span Configuration : (S) 68.6 feet, 95.2 feet, 68.6 feet (N)

widened (S) 27.9 feet, 29.5 feet, 68.6 feet, 95.2 feet, 68.6 feet

(N)

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: MS-18+MOD OR HS-20+MOD

Inventory Rating: RF=1.00 =>32.4 metric tons Calculation Method: ASSIGNED (LFD)
Operating Rating: RF=1.67 =>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) 1.6 feet br, 4.3 feet sw, 43.6 feet, 4.0 feet med, 43.6 feet, 5.0 feet

sh, 4.3 feet sw, 1.6 feet br (E)

Total Width: 31.2 m Net Width: 26.6 m No. of Lanes: 4 Speed: 55 mph
Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 inches

Rail Code: 1111

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth canyon

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

A complete routine inspection was performed by walking on and around the bridge to inspect all visible elements of the bridge structure. Bridge deck was inspected by walking on sidewalks, shoulder and median area. Soffit and all substructure were inspected by walking underneath the bridge.

There is no need for a special equipment to inspect this structure.

Printed on: Friday 05/03/2019 11:08 AM 55C0629/AAAF/50909

INSPECTION COMMENTARY

DECK AND ROADWAY

There are minor hailine transverse and longitudinal deck cracks at 0.02 inches wide, 2.0 feet to 4.0 feet in spacing.

SUPERSTRUCTURE

There is no notable distress observed at the time of inspection.

SUBSTRUCTURE

There is no notable distress observed at the time of inspection.

SAFE LOAD CAPACITY

The load rating for this structure is being reviewed and assigned by Design LFD-03/25/2015, SM&I Ratings Branch. A Load Rating Summary Sheet dated 03/25/2015 is on file for this structure in BIRIS.

WATERWAY

The channel was dry at the time of inspection.

ELEMENT INSPECTION RATINGS AND COMMENTARY								
1	Defect Defect Element Description /Prot	Env	Total Qty	Units		each Co		
16	Top Flange-RC	2	2270	sq.m	2270	. 0	0	0
(16) There	were no significant defects noted.							
38	Slab-RC	2	200	sq.m	200	0	0	0
(38) There	were no significant defects noted.							
105	Box Girder-RC	2	142	m	142	0	0	0
(105) There	were no significant defects noted.							
205	Column-RC	2	13	each	13	0	0	0
(205) There	(205) There were no significant defects noted.							-
215	Abutment-RC	2	80	m	80	0	0	0
(215) There were no significant defects noted.								
252	Pile-CIDH	2	1	ea.	1	0	0	0
(252) The pile element is included to indicate the presence of piles on this structure. The piles were not exposed for visual inspection. No indication of pile distress was noted in any substructure element.								
302	Joint-Compression Seal	2	42	m	42	0	0	0
(302) There were no significant defects noted.								
312	Bearing-Enclosed	2	2	each	2	0	0	0
(312) There	were no significant defects noted.							

Printed on: Friday 05/03/2019 11:08 AM

55C0629/AAAF/50909

Elem Do. /	efect Defect Element Description Prot	Env	Total Qty	Units	-		ondition St. 3	
321	Approach Slab-RC	2	478	sq.m	478	0	0	0
(321) There we	re no significant defects noted.							
331	Railing-RC	2	142	m	142	0	0	0
(331) There we	re no significant defects noted.							

WORK RECOMMENDATIONS - NONE

CHANNEL	X-SECTION			
	Upstream From :Bottom of	Easterly soffit		X-Section Date: 01/31/2019
Location		Horiz(m)	Vert(m)	Comments
Abutment	1	0.00	1.30	Face of Abutment
Bent #2		0.00	10.70	Centerline
		12.50	14.60	Thalweg
Bent #3		0.00	10.30	Centerline
Abutment	#4	0.00	1.40	Face of Abutment

Team Leader : Edwin Mah Report Author : Nelson N. Vo Inspected By : NN.Vo/E.Mah

Edwin Mah (Registered Civil Engineer)



STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************	******************************	****
(1)	STATE NAME- CALIFORNIA 069	SUFFICIENCY RATING = 87.9	
(8)	STRUCTURE NUMBER 55C0629		
(5)	INVENTORY ROUTE (ON/UNDER) - ON 14000000		
	HIGHWAY AGENCY DISTRICT 12	PAINT CONDITION INDEX = N/A	
(3)	COUNTY CODE 059 (4) PLACE CODE 00000	******* CLASSIFICATION ******	**** CODE
(6)	FEATURE INTERSECTED- WILDLIFE UNDERCROSSING	(112) NBIS BRIDGE LENGTH- YES	Y
	FACILITY CARRIED- ANTONIO PARKWAY	(104) HIGHWAY SYSTEM- ROUTE ON NHS	1
	LOCATION- 0.5 MI. S/O OSO PARKWAY	(26) FUNCTIONAL CLASS- OTHER PRIN ART URBAN	
	MILEPOINT/KILOMETERPOINT 0	(100) DEFENSE HIGHWAY- NOT STRAHNET	
	BASE HIGHWAY NETWORK- PART OF NET 1	(101) PARALLEL STRUCTURE- NONE EXISTS	N
	LRS INVENTORY ROUTE & SUBROUTE 00000000000	(102) DIRECTION OF TRAFFIC- 2 WAY	2
	LATITUDE 33 DEG 34 MIN 34.64 SEC	(103) TEMPORARY STRUCTURE-	-
	LONGITUDE 117 DEG 37 MIN 57.64 SEC	(105) FED.LANDS HWY- NOT APPLICABLE	0
	BORDER BRIDGE STATE CODE	(110) DESIGNATED NATIONAL NETWORK - NOT ON	
		(20) TOLL- ON FREE ROAD	3
(99)	BORDER BRIDGE STRUCTURE NUMBER	(21) MAINTAIN- COUNTY HIGHWAY AGENCY	02
	****** STRUCTURE TYPE AND MATERIAL *******	(22) OWNER- COUNTY HIGHWAY AGENCY	02
(43)	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE CONT	(37) HISTORICAL SIGNIFICANCE- NOT ELIGIBL	
	TYPE- BOX BEAM OR GIRDER - MULTI CODE 205		
(44)	STRUCTURE TYPE APPR:MATERIAL- CONCRETE CONT	********** CONDITION ********	**** CODE
>	TYPE- SLAB CODE 201	(58) DECK	7
(45)	NUMBER OF SPANS IN MAIN UNIT 3	(59) SUPERSTRUCTURE	7
(46)	NUMBER OF APPROACH SPANS 2	(60) SUBSTRUCTURE	7
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61) CHANNEL & CHANNEL PROTECTION	N
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62) CULVERTS	N
A)	TYPE OF WEARING SURFACE- NONE CODE 0	******* LOAD RATING AND POSTING ****	**** CODE
B)	TYPE OF MEMBRANE - NONE CODE 0	(31) DESIGN LOAD- MS-18+MOD OR HS-20+MOD	
C)	TYPE OF DECK PROTECTION- NONE CODE 0	(63) OPERATING RATING METHOD - ASSIGNED (LI	6
	******* AGE AND SERVICE *********	(64) OPERATING RATING-	
(27)	YEAR BUILT 1997	(65) INVENTORY RATING METHOD- ASSIGNED (L)	54.1
(106)	YEAR RECONSTRUCTED 2008	(66) INVENTORY RATING-	·
(42)	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5	(70) BRIDGE POSTING- EQUAL TO OR ABOVE LEGA	32.4
	UNDER- OTHER 0	(41) STRUCTURE OPEN, POSTED OR CLOSED-	_
	LANES:ON STRUCTURE 04 UNDER STRUCTURE 00	DESCRIPTION - OPEN, NO RESTRICTION	A
(29)	AVERAGE DAILY TRAFFIC 23400	DESCRIPTION- OPEN, NO RESTRICTION	
(30)	YEAR OF ADT 2019 (109) TRUCK ADT 1 %	********* APPRAISAL ********	**** CODE
(19)	BYPASS, DETOUR LENGTH 11 KM	(67) STRUCTURAL EVALUATION	7
	******* GEOMETRIC DATA **********	(68) DECK GEOMETRY	9
(48)	LENGTH OF MAXIMUM SPAN 29.0 M	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(49)	STRUCTURE LENGTH 71.6 M	(71) WATER ADEQUACY	N
(50)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M	(72) APPROACH ROADWAY ALIGNMENT	8
	BRIDGE ROADWAY WIDTH CURB TO CURB 26.6 M	(36) TRAFFIC SAFETY FEATURES	1111
	DECK WIDTH OUT TO OUT 31.2 M	(113) SCOUR CRITICAL BRIDGES	N
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 26.6 M	******* PROPOSED IMPROVEMENTS ****	****
	BRIDGE MEDIAN- NO MEDIAN 0	(GE) SUPE OF MORE	
	SKEW 0 DEG (35) STRUCTURE FLARED NO		ODE
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(76) LENGTH OF STRUCTURE IMPROVEMENT	М
	INVENTORY ROUTE TOTAL HORIZ CLEAR 99.99 M	(94) BRIDGE IMPROVEMENT COST	
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(95) ROADWAY IMPROVEMENT COST	
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M	(96) TOTAL PROJECT COST	
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
	MIN LAT UNDERCLEAR LT 0.0 M	(114) FUTURE ADT	42329
	******* NAVIGATION DATA *********	(115) YEAR OF FUTURE ADT	2037
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	**************************************	****
	PIER PROTECTION- CODE	(90) INSPECTION DATE 01/19 (91) FREQUENCY	48 MO
	NAME OF THE PROPERTY OF THE PR	(92) CRITICAL FEATURE INSPECTION: (93)	CFI DATE
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M	A) FRACTURE CRIT DETAIL- NO MO A)	
	NAVIGATION HORIZONTAL CLEARANCE 0.0 M	B) UNDERWATER INSP- NO MO B)	
- *	V. 0 PI	C) OTHER SPECIAL INSP- NO MO C)	

Printed on: Friday 05/03/2019 11:08 AM