DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE & INVESTIGATIONS 100 South Main Street, 3rd Floor LOS ANGELES, CA 90012 PHONE (213) 897-2004 FAX (213) 897-2033



Jeff



Making Conservation a California Way of Life.

September 3, 2018

RECEIVED

OCT 0 5 2018

'ks OC PUBLIC WORKS
DIRECTOR'S OFFICE

Mr. Shane Silsby Director of Public Works County of Orange P O Box 4048 Santa Ana, CA 92702-4048

Dear Mr. Silsby:

In accordance with Title 23 of the Code of Federal Regulations (Federal Highway Act) and the National Bridge Inspection Standards (NBIS), Caltrans Structure Maintenance and Investigations performed an inspection of 2 bridges under your jurisdiction. The type of inspection is indicated on the bridge report transmittal sheet. The bridges have been rated to indicate their deficiencies, structural adequacy, safe load carrying capacity and overall general condition.

Enclosed are copies of the Bridge Inspection Reports for the structures noted on the attached transmittal sheet. These reports contain descriptions of physical changes to the structures since the last inspection, recommendations for work to be done, and additional information not recorded in the previous Bridge Reports.

Your attention is directed to the requirements of Title 23, Part 650 of the Code of Federal Regulations, where newly completed structures or any modification of existing structures shall be entered in the inventory within 90 days. Please notify this office of any newly constructed bridge or culvert within your jurisdiction, more than 20 feet measured along the center of the roadway and carrying public vehicular traffic or over a public roadway, in order that it may be entered in the inventory of bridge structures in compliance with Federal requirements.

Should you have any questions regarding the enclosed Bridge Inspection Reports, please contact Bing Wu @ (213) 897-0874.

Sincerely.

CHING CHAO

Office Chief

Structure Maintenance & Investigations - (Investigations-South)

Enclosures



DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0130

Facility Carried: GLASSELL STREET

Location : 0.3 MI S/O ROUTE 91 FWY

City

Inspection Date : 12/31/2017

Inspection Type

Routine FC Underwater Special Other

Bridge Inspection Report

STRUCTURE NAME: SANTA ANA RIVER CHANNEL

CONSTRUCTION INFORMATION

 Year Built : 1963
 Skew (degrees): 0

 Year Modified: 2005
 No. of Joints : 4

 Length (m) : 293.5
 No. of Hinges : 4

Structure Description:18 span continuous CIP RC "T" beam (12 each total induding widening)

supported by RC pier walls and open end RC diaphragm abutments on

steel piles, except Pier 10 through Pier 18 of the east half

widening which are RC column (4 each) bents on continuous RC footing

and steel piles.

Widen 2005: the bridge was widened 2 CIP/RC beam (2 each) at the

west and the east ends.

Span Configuration : (S) 41.00 ft, 16 @ 55.00 ft, 41.00 ft (N)

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: UNKNOWN

Inventory Rating: RF=0.52 =>16.8 metric tons Calculation Method: FIELD EVAL/ENG JUDGMENT Operating Rating: RF=0.86 =>27.9 metric tons Calculation Method: FIELD EVAL/ENG JUDGMENT

Permit Rating : XXXXX

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) 1.25 ft br; 5.00 ft sw; 35.00 ft; 4.00 ft cu. med.; 35.00 ft; 5.00 ft sw; 1.25 ft br (E).

Total Width: 26.1 m Net Width: 21.2 m No. of Lanes: 4 Speed: 45 mph
Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 inches

Rail Code: 1000

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural sandy earth trapezoidal with rock slope protection through the site.

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

Printed on: Monday 08/27/2018 12:42 PM

55C0130/AAAK/41527

INSPECTION COMMENTARY

This inspection was performed by walking on the sidewalks, raised median and under all spans. A visual inspection is performed for the visible substructure elements. The water in the channel was up to 3.5 feet deep at spans 3 to 8 (no underside Inspection) & 1 foot water at span 11 to span 16 that were inspected using arain boots. Inspection access is through a vehicular access at northeast gate.

DECK AND ROADWAY

Southeast corner of the sidewalk settled up to 3/4 inches, with a spall 8 inches X 3 inches X 1 inch at the sidewalk approach at the same location.

SAFE LOAD CAPACITY

A Load Rating Summary sheet is archived on 01/31/2016. As-built drawings are not available for the original bridge. The Load rating Summary Sheet has verified the physical conditions assumed in the above referenced load rating calculation have not changed significantly.

		Qty	2114 (8			ondition St. 3	
2	2	7440	sq.m	6990	450	0	0
2	2	50		0	50	0	0
2	2	400		0	400	0	0
2	2	400		400	0	0	0
2	2	6222	sq.m	6222	0	0	0
al bridg south er	ge)	has s	everal	transv	erse cr		p to
south er	nd;	an	.d	.d	.d	.d	s several transverse cracks, und d lorescence; these cracks mirro
							the deck cracks that were in condition sta

2 3524

23

250

2

2

The deck is sealed with methacrylate in around year 2012.

Cracking (RC and Other)

Delamination/Spall/Patched Area

Girder/Beam-RC

There were no significant defects noted.

110

1080

1130

270

20

250

3

0

0

0

0

3251

0

0

ELEMENT INSPECTION RATINGS AND COMMENTARY

Elem Defect Defect Element Description
No. /Prot

Env Total Units Qty in each Condition State
Qty St. 1 St. 2 St. 3 St. 4

(110-1080)

The concrete girders exhibit:

At span 2: Girder 3, has six sound patched areas +/- 12 inches X 10 inches in different locations.

- * at span 9:
- girder 1 exhibits a spall 3 inches X 3 inches X 1 inch at west fascia at 15 feet from PW #10;
- girder 3 exhibits four spalls +/- 12 inches X 5 inches X 2 inch at west fascia; (see the attached photo no. 3)
- girder #9 exhibits two spalls 5 inches X 5 inches X 1 inch at 5 feet north from intermediate diaphragm at both faces; and
- girder #10 exhibits a spall 5 inches X 6 inches X 1 inch at 5 feet north from intermediate diaphragm at west face.
- * at span 10: a spall 4 inches X 4 inches X 1 inch at girder #9 at 2 feet from the intermediate diaphragm without any rebar exposed.
- * at span 11: girder #10 (from west) has a spall 10 inches X 3 inches X 1 inch with rebar exposed and rusted at 5 feet north of intermediate diaphragm.
- * at span 17: most girders from 3 to 10 have up to two sound patched areas +/- 12 inches X 12 inches. (110-1130)

The concrete girders exhibit: (see the attached photo no. 4)

- * in span 2: most original girders (south end) have few shear cracks (2 cracks at each girder) 0.04 inches wide;
- * in span 9:
- 4 shear cracks (at each end) at each original girder , up to 0.04 inches wide;
- * in span 10: girders 7, 8, 9 and 10 each has eight vertical cracks, up to 0.04 inches wide and 2.5 feet spaced apart mostly at the middle 2/3rd of the span.
- * most original girders exhibit few shear cracks up to 0.03 inches wide at both ends.

182		EQ Restrainer Cable-Other	2	40	ea.	35	5	0	0
	1000	Corrosion	2	5		0	5	0	0

(182-1000)

Steel cables of the seismic retrofit have a sign of rust of some of them.

205	Column-RC	2	36	each	36	0	0	0
(205)								

4 columns at each Bent , at Bents 10 to 18.

There were no significant defects noted.

210	Pier Wall-RC	2	280	m	269	10	1	0
108	Delamination/Spall/Patched Area	2	1		0	0	1	0
113	Cracking (RC and Other)	2	10		0	10	0	0

(210-1080)

Pier wall #11 exhibits two spalls 3 inches X 3 inches X 1 inch at north face.

Pier wall #14 exhibits a spall 1.5 feet diameter X 2 inches at 15 feet from west end southerly face.

Pier wall #12 exhibits two vertical cracks, up to 0.05 inches wide at the westerly portion. Pleir wall #14 exhibits two vertical crack, 0.04 inches wide at the westerly portion and one horizontal crack 0.05 inches wide at the east portion of the pier wall. Pier wall #16 exhibits a vertical crack, 0.05 inches wide. 215 Abutment-RC 2 36 m 36 0 0 0 0 (215) There were no significant defects noted. 225 Pile-Steel 2 1 ea. 1 0 0 0 0 (225) The pile element is included to indicate the presence of piles on this structure. The piles were no exposed for visual inspection. No indication of pile distress was noted in any substructure element companies. 226 Slope Protection 2 1 ea. 1 0 0 0 0 (256) There were no significant defects noted. 237 Slope Protection 2 1 ea. 1 0 0 0 0 (256) There were no significant defects noted. 238 m 75 13 0 0 0 (256) There were no significant defects noted. 239 Seal Adhesion (Joints) 2 13 0 13 0 0 (301) The joint seals were replaced around year 2012. (301-2320) The pourable joint seal at hinge 3 lost adhesion about 17 feet long. The pourable joint seal at hinge 7 lost adhesion about 6 feet long at westbound lanes. The pourable joint seal at hinge 16 lost adhesion about 20 feet long at westbound and southbound lanes. The pourable joint seal at hinge 16 lost adhesion about 20 feet long at westbound and southbound lanes.	Elem Defect								
Pier wall #20 exhibit: Pler wall #20 exhibits two vertical cracks, 0.05 inches wide. Pier wall #30 exhibits a vertical crack, 0.04 inches wide. Pier wall #10 exhibits a vertical crack, 0.04 inches wide. Pier wall #10 exhibits a vertical crack, 0.04 inches wide. Pier wall #110 exhibits a vertical crack, 0.04 inches wide. Pier wall #12 exhibits two vertical crack, 0.04 inches wide. Pier wall #14 exhibits two vertical crack, 0.04 inches wide at the westerly portion. Pier wall #15 exhibits a vertical crack, 0.04 inches wide at the westerly portion and one horizonta crack 0.05 inches wide at the east portion of the pier wall. Pier wall #16 exhibits a vertical crack, 0.05 inches wide. 215 Abutment-RC 2 36 m 36 0 0 0 (215) There were no significant defects noted. 225 Pile-Steel 2 1 ea. 1 0 0 0 (225) The pile element is included to indicate the presence of piles on this structure. The piles were no exposed for visual inspection. No indication of pile distress was noted in any substructure element 256 Slope Protection 2 1 ea. 1 0 0 0 (225) There were no significant defects noted. Only at south Abutment. 301 Joint-Pourable Seal 2 88 m 75 13 0 0 (301) The joint seals were replaced around year 2012. (301-3220) The pourable joint seal at hinge 3 lost adhesion about 17 feet long. The pourable joint seal at hinge 16 lost adhesion about 20 feet long at westbound and southbound lanes. The pourable joint seal at hinge 16 lost adhesion about 20 feet long at westbound and southbound lanes. 312 Bearing-Enclosed 2 2 each 2 0 0 0 (312) The enclosed bearing pads are not exposed for visual inspection. 313 Railing-RC 2 591 m 531 60 0 0 (3130) The enclosed bearing pads are not exposed for visual inspection.		Defect Element Description	Env		Units				
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WORK RECOMMENDATIONS

WORK RECOMMENDATIONS

RecDate: 12/31/2017 EstCost: Patch Pier wall #14 that has a spall 1.5 StrTarget: 2 YEARS feet diameter X 2 inches at 15 feet from Action : Sub-Patch spalls

Work By: LOCAL AGENCY DistTarget: west end southerly face. (see the

Status : PROPOSED EA: attached photo no. 2)

RecDate: 12/31/2017 EstCost:

Patch all the spalls at the concrete Action : Super-Patch spalls StrTarget: 2 YEARS girders at span #9 that have several

Work By: LOCAL AGENCY DistTarget: spalls +/- 12 inches X 5 inches X 2 Status : PROPOSED EA: inches. (see the attached photo no. 3)

Team Leader : Ashraf Shenouda

Report Author : Ashraf Shenouda

Inspected By : A.Shenouda/KD.Henderson

Ashraf Shenouda (Registered Civil Engineer) (Date)

CC: City of Orange City of Anaheim

STRUCTURE INVENTORY AND APPRAISAL REPORT

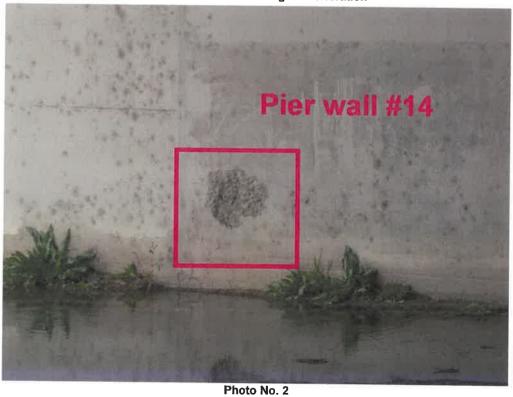
	**************************************		*************
(1)	STATE NAME - CALIFORNIA 069		SUFFICIENCY RATING = 69.0
(8)	STRUCTURE NUMBER 55C0130		STATUS
(5)	INVENTORY ROUTE (ON/UNDER) - ON 150000000		HEALTH INDEX 97.8
(2)	HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = N/A
(3)	COUNTY CODE 059 (4) PLACE CODE 00000		******** CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- SANTA ANA RIVER CHANNEL	(112)	NBIS BRIDGE LENGTH- YES Y
	FACILITY CARRIED- GLASSELL STREET		HIGHWAY SYSTEM- ROUTE ON NHS
(9)	LOCATION- 0.3 MI S/O ROUTE 91 FWY		FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
(11)	MILEPOINT/KILOMETERPOINT 0		DEFENSE HIGHWAY- NOT STRANNET 0
	BASE HIGHWAY NETWORK- PART OF NET 1		PARALLEL STRUCTURE- NONE EXISTS N
(13)	LRS INVENTORY ROUTE & SUBROUTE 000000000000		DIRECTION OF TRAFFIC- 2 WAY 2
	LATITUDE 33 DEG 50 MIN 35.94 SEC		TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 51 MIN 09.2 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
(98)	BORDER BRIDGE STATE CODE		DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STRUCTURE NUMBER		TOLL- ON FREE ROAD
			MAINTAIN- CITY OR MUNICIPAL HIGHWAY AGENCY 04
	******* STRUCTURE TYPE AND MATERIAL *******		OWNER- CITY OR MUNICIPAL HIGHWAY AGENCY 04
(43)	STRUCTURE TYPE MAIN:MATERIAL- CONCRETE CONT TYPE- TEE BEAM CODE 204	(37)	HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		************ CONDITION *********** CODE
	TYPE- OTHER/NA CODE 000	(58)	DECK 7
(45),	NUMBER OF SPANS IN MAIN UNIT 18	(59)	SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 7
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61)	CHANNEL & CHANNEL PROTECTION 8
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
	TYPE OF WEARING SURFACE- CONCRETE CODE 1		****** TOAD DAMING AND DOGRAM
	TYPE OF MEMBRANE- NONE CODE 0	(27)	******* 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
(27)	YEAR BUILT 1963		OPERATING RATING- 27.9
	YEAR RECONSTRUCTED 2005		INVENTORY RATING METHOD- FIELD EVAL/ENG JUL 0
	TYPE OF SERVICE: ON- HIGHWAY 1		INVENTORY RATING- 16.8
	UNDER- WATERWAY 5		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES:ON STRUCTURE 04 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
(29)	AVERAGE DAILY TRAFFIC 22000		DESCRIPTION- OPEN, NO RESTRICTION
(30)	YEAR OF ADT 2003 (109) TRUCK ADT 1 %		********** APPRAISAL ********** CODE
(19)	BYPASS, DETOUR LENGTH 5 KM		STRUCTURAL EVALUATION
	****** GEOMETRIC DATA **********		DECK GEOMETRY 9
	LENGTH OF MAXIMUM SPAN 16.8 M	(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49)	STRUCTURE LENGTH 293.5 M		WATER ADEQUACY 9
	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M	(72)	APPROACH ROADWAY ALIGNMENT 8
(51)	BRIDGE ROADWAY WIDTH CURB TO CURB 21.2 M	(36)	TRAFFIC SAFETY FEATURES 1000
	DECK WIDTH OUT TO OUT 26.1 M	(113)	SCOUR CRITICAL BRIDGES 8
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 21.2 M		******* PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN- CLOSED NON-MOUNTABLE 3	(75)	EVDE OF HODY
(34)			6652
(10)	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE TOTAL HORIZ CLEAR 10.6 M		BRIDGE IMPROVEMENT COST
(53)	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M		ROADWAY IMPROVEMENT COST
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		TOTAL PROJECT COST
(55)	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M		YEAR OF IMPROVEMENT COST ESTIMATE
(56)	MIN LAT UNDERCLEAR LT 0.0 M		FUTURE ADT 45792
,	*********** NAVIGATION DATA **********	(113)	YEAR OF FUTURE ADT 2035
(38)	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(00)	**************************************
(111)	PIER PROTECTION- CODE		INSPECTION DATE 12/17 (91) FREQUENCY 24 MO
	NAVIGATION VERTICAL CLEARANCE 0.0 M		CRITICAL FEATURE INSPECTION: (93) CFI DATE
	FRT-LIFT BRIDGE NAV MIN VERT CLEAR M		FRACTURE CRIT DETAIL- NO MO A) UNDERWATER INSP- NO MO B)
(40) 1	VAVIGATION HORIZONTAL CLEARANCE 0.0 M		OWNER CONCERN
		٥,	OTHER SPECIAL INSP- NO MO C)

102 - PHOTO-Deck-Damage/Deterioration



Photo No. 1





Spalll 1.5 feet diameter X 2 inches deep at pier wall 14.

SANTA ANA RIVER CHANNEL

0.3 MI S/O ROUTE 91 FWY

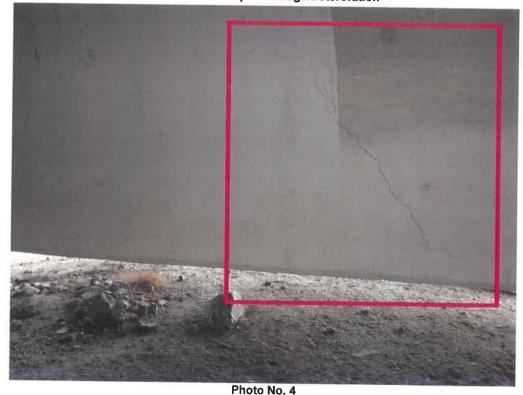
12/31/2017 [AAAK]

107 - PHOTO-Super-Damage/Deteroration



Photo No. 3 Spalls 12 in X 5 in. X 2 in.at G#9 at span 9.





Diagonal cracks at the RC girders, up to 0.04 inches wide.

55C0130