# **Orange County Bridge Review Summary**

Dokken Engineering performed a field review of the Orange County bridge listed below in April 2017 to identify maintenance activities eligible for Caltrans' Bridge Preventive Maintenance Program (BPMP), dated December 2015, funding. Additional maintenance activities, if present, not eligible for BPMP funding were also noted. Maintenance recommendations, if noted in the most recent Caltrans Bridge Inspection Report (BIR), were confirmed.

**Bridge Number:** 55C0550

Bridge Name: Aliso Creek Year Built: 1988

Facility Carried: Aliso Creek Road

The Aliso Creek Bridge at Aliso Creek Road is a single span cast-in-place post tensioned concrete box girder with diaphragm abutments supported on concrete piles.

### Caltrans BIR recommendations:

• Seal severe cracks with epoxy at the east end of the WB lanes.

# Field Inspection Observations

- Due to traffic, there was limited deck access. Efflorescence visible on bridge soffit (photo 1), this may be a result of a leaking utility. Recommend determining if there are utilities through bridge that may be leaking, since moisture must be present in bridge cells to cause the efflorescence.
- Some down drains are clogged (photo 2). Note this is not eligible for BPMP funds.

### Maintenance Needs Assessment

# **BPMP** Assessment

• Seal cracks at east end of WB lanes per Caltrans BIR recommendation. These are condition state 2, therefore eligible for funding.

## <u>General Maintenance - Non-BPMP</u>

• Clean out down drains.

### **Proposed BPMP Construction Costs**

- Seal Bridge Deck cracks ≈ \$65,000
- Traffic Control for deck sealing ≈ \$15,000

### Construction Items Not Funded by BPMP

Clean Down Drain ≈ \$4,000 (performed same time as deck sealing)

# **APPENDIX A**

**Photos and BIR** 



Photo 1:



Photo 2:



Photo 3:



Photo 4: Bridge Soffit

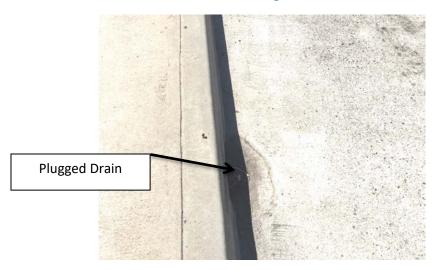


Photo 5: Bridge Deck



DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Inspection Report

Bridge Number : 55C0550

Facility Carried: ALISO CREEK ROAD

Location : 100' W/O ALICIA PARKWAY

City

Inspection Date : 08/14/2015

Inspection Type

Routine FC Underwater Special Other

Х

STRUCTURE NAME: ALISO CREEK

CONSTRUCTION INFORMATION

Year Built : 1988 Year Widened: N/A Length (m) : 51.8 Skew (degrees): 20
No. of Joints: 0
No. of Hinges: 0

Structure Description: Single span CIP/PS concrete box girder (16 cells) with RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (W) 50.0 m (E) c/c

SAFE LOAD CAPACITY AND RATINGS

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

Inventory Rating: RF=1.00 =>32.4 metric tons
Operating Rating: RF=1.67 =>54.1 metric tons

Calculation Method: ASSIGNED (LFD)
Calculation Method: ASSIGNED (LFD)

Permit Rating : PPPPP

Posting Load : Type 3: Legal

Type 3S2: Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (N) 0.3 m br, 1.5 m sw, 34.5 m, 1.5 m sw, 0.3 m br (N)

Total Width: 38.0 m Net Width: 34.5 m No. of Lanes: 9 Speed: 50 mph

Min. Vertical Clearance: Unimpaired

Overlay Thickness: 0.0 Inches

Rail Code: 0000

Rail Type Location Length (ft) Rail Modifications
Type 26 Right/Left 1085

### DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth, trapezoidal with RC 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

The channel was dry at time of inspection. The inspection was performed by walking on the deck and under the structure. All elements were visually inspected.

DECK

The 5 mm thick at the north corner of Abutment 2 (leveling concrete) is broken into pieces and peeled off.

Printed on: Wednesday 09/23/2015 08:16 AM

55C0550/AAAJ/32864

### INSPECTION COMMENTARY

SAFE LOAD CAPACITY

A Load Rating Summary Sheet dated 03/30/3013 is on file for this structure. The current rating has been assigned in accordance with SM&I procedures.

SCOPE AND ACCESS

ELEME	ENT INSPECTION RATINGS AND NOTES							
Elem No.	Element Description	Env	Total Qty	Units			ondition St. 3	
16	Top Flange-RC	2	1970	sq.m	183	1787	0	0
	1130 Cracking (RC and Other)	2	1787		0	1787	0	0
(16-1								
There	are cracks 1 mm wide throughout the deck main	ly in the	ends					
104	Box Girder-PS Conc.	2	104	m	104	0	0	0
(104)								
There	were no significant defects noted.							
215	Abutment-RC	2	93	m	93	0	0	0
(215)						77.50		
There	were no significant defects noted.							
256	Slope Protection	2	2	ea.	2	0	0	0
(256)								
There	were no significant defects noted.							
331	Railing-RC	2	104	m	104	0	0	0
(331)			M					
There	were no significant defects noted.							

### WORK RECOMMENDATIONS

RecDate: 03/30/2013

EstCost:

Seal with epoxy the severe cracks (up to

Action : Deck-Methacrylate

StrTarget: 2 YEAR

2 YEARS 5 mm wide) at the east end of the WB

PROFESSION

Mikhael T.

Zaarour

No. <u>68212</u> 09/30/2017

Work By: LOCAL AGENCY

DistTarget:

lanes.

Status : PROPOSED

EA:

Team Leader :

Mikhael T. Zaarour

Report Author :

Mikhael T. Zaarour

Inspected By :

MT.Zaarour/KD.Henderson

Mikhael T. Zaarour (Registered Civil Engineer)

/Data

CIVIL

# STRUCTURE INVENTORY AND APPRAISAL REPORT

SINCELLINE NAME - CALIFORNIA   0.69   STATUS		**************************************		************
REALTH IDURES	(1)	STATE NAME- CALIFORNIA 069		
	(8)	STRUCTURE NUMBER 55C0550		
COUNTY CORE   0.99   (4) PLACE CODE   0.000	(5)	INVENTORY ROUTE (ON/UNDER) - ON 140000000		/4.0
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(48) LENGTH OF MAXIMUM SPAN 50.0 M (49) STRUCTURE LENGTH 51.8 M (50) CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.5 M (51) BRIDGE ROADWAY WIDTH CURB TO CURB 34.5 M (52) DECK WIDTH OUT TO OUT 38.0 M (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 34.5 M (33) BRIDGE MEDIAN- NO MEDIAN 0 (34) SKEW 20 DEG (35) STRUCTURE FLARED NO (34) INVENTORY ROUTE MIN VERT CLEAR 99.99 M (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 34.5 M (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M (54) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M (55) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (56) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (56) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (56) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (56) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (56) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (56) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (57) TYPE OF WORK- CODE (58) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (59) ROADWAY IMPROVEMENT COST (50) MIN LAT UNDERCLEAR REF- NOT H/RR 0.00 M (50) MIN LAT UNDERCLEAR LT 0.00 M (50) M	(10)			DECK GEOMETRY
(49) STRUCTURE LENGTH 51.8 M (71) WATER ADEQUACY 9 (50) CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.5 M (72) APPROACH ROADWAY ALIGNMENT 8 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 34.5 M (36) TRAFFIC SAFETY FEATURES 00000 (52) DECK WIDTH OUT TO OUT 38.0 M (113) SCOUR CRITICAL BRIDGES 8 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 34.5 M (113) SCOUR CRITICAL BRIDGES 8 (33) BRIDGE MEDIAN- NO MEDIAN 0 (75) TYPE OF WORK- CODE (34) SKEW 20 DEG (35) STRUCTURE FLARED NO (76) LENGTH OF STRUCTURE IMPROVEMENT MM (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M (94) BRIDGE IMPROVEMENT COST (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M (94) BRIDGE IMPROVEMENT COST (54) MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M (97) YEAR OF IMPROVEMENT COST (55) MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.00 M (97) YEAR OF IMPROVEMENT COST (114) FUTURE ADT 46252 (56) MIN LAT UNDERCLEAR LT 0.0 M (97) YEAR OF FUTURE ADT 2035  ***********************************	(40)			
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