

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Inspection Report

Bridge Number : 55C0534
Facility Carried: MEADS AVENUE

Location : 0.3 MI E/O ORANGE PARK B

City

Inspection Date : 08/07/2015

Inspection Type

Routine FC Underwater Special Other

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STRUCTURE NAME: HANDY CREEK

CONSTRUCTION INFORMATION

 Year Built : 1985
 Skew (degrees): 99

 Year Widened: 1990
 No. of Joints : 0

 Length (m) : 8.5
 No. of Hinges : 0

Structure Description: Single span CIP/RC deck slab with RC open end diaphragm abutments,

all supported upon concrete piles.

Span Configuration : (W) 1 @ 7.3 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 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:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (N) 0.1 m br, 2.2 m sw, 0.6 m br, 8.8 m, 0.1 m br (S)

Total Width: 11.9 m Net Width: 8.8 m No. of Lanes: 2 Speed: 25 mph Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 Inches

Rail Code: 1000

Rail Type	Location	Length (ft	Rail Modifications
MBBR	Right/Left	99	

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal.

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

There was about 2' deep stagnate water in the creek. All elements were visually inspected from the side due to clearance under the structure.

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.

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

55C0534/AAAG/32864

ELEMEI	IT INSPECTION RATINGS AND NOTES								
	Defect Defect Element Description /Prot	Env	Total Qty	Units		each Co		on State St. 4	
38	Slab-RC	2	101	sq.m	91	10	0	0	
	1130 Cracking (RC and Other)	2	10		0	10	0	0	
(38-1130) There are 1 mm wide diagonal cracks at the corners									
215	Abutment-RC	3	34	m	34	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.									
330	Railing-Metal	2	17	m	17	0	0	0	
(330) 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)

(113/15

No. 68212

09/30/2017

CIVIL

OF CALIFORNIA

STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		**************************************
(1)	STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 88.6 STATUS
(8)	STRUCTURE NUMBER 55C0534		
(5)	INVENTORY ROUTE (ON/UNDER) - ON 14000000		HEALTH INDEX 97.9
(2)	HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = N/A
(3)	COUNTY CODE 059 (4) PLACE CODE 00000		******* CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- HANDY CREEK	(112)	NBIS BRIDGE LENGTH- YES Y
(7)	FACILITY CARRIED- MEADS AVENUE	(104)	HIGHWAY SYSTEM- NOT ON NHS 0
(9)	LOCATION- 0.3 MI E/O ORANGE PARK BL	(26)	FUNCTIONAL CLASS- COLLECTOR URBAN 17
(11)	MILEPOINT/KILOMETERPOINT 0	(100)	DEFENSE HIGHWAY- NOT STRAHNET 0
(12)	BASE HIGHWAY NETWORK- NOT ON NET 0		PARALLEL STRUCTURE- NONE EXISTS N
(13)	LRS INVENTORY ROUTE & SUBROUTE		DIRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 48 MIN 26.85 SEC	(103)	TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 46 MIN 43.57 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
(98)	BORDER BRIDGE STATE CODE % SHARE %	(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STRUCTURE NUMBER		TOLL- ON FREE ROAD 3
1,000,00		(21)	MAINTAIN- COUNTY HIGHWAY AGENCY 02
	****** STRUCTURE TYPE AND MATERIAL *******		OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN:MATERIAL- CONCRETE TYPE- SLAB CODE 101	(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 1	(59)	SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 8
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1		CHANNEL & CHANNEL PROTECTION 8
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
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 6
C)	TYPE OF DECK PROTECTION- NONE CODE 0		OPERATING RATING METHOD- ASSIGNED (LFD) A
	********* AGE AND SERVICE *********		OPERATING RATING- 54.1
(27)	YEAR BUILT 1985		INVENTORY RATING METHOD- ASSIGNED (LFD) A
(106)	YEAR RECONSTRUCTED 1990		INVENTORY RATING- 32.4
(42)	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5	(70)	BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
/201	UNDER- WATERWAY 5 LANES:ON STRUCTURE 02 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	AVERAGE DAILY TRAFFIC 1000		DESCRIPTION- OPEN, NO RESTRICTION
	YEAR OF ADT 2011 (109) TRUCK ADT 1 %		**************************************
0.00000000	BYPASS, DETOUR LENGTH 2 KM		********** APPRAISAL ********* CODE STRUCTURAL EVALUATION
***************************************			DECK GEOMETRY 7
	******* GEOMETRIC DATA **********		Third of the same
	LENGTH OF MAXIMUM SPAN 7.3 M		THE METER AND PROPERTY.
	STRUCTURE LENGTH 8.5 M		WATER ADEQUACY 5 APPROACH ROADWAY ALIGNMENT 5
	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M		TRAFFIC SAFETY FEATURES 1000
	BRIDGE ROADWAY WIDTH CURB TO CURB 8.8 M		SCOUR CRITICAL PRINCES
	DECK WIDTH OUT TO OUT 11.9 M	\$555 S	
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.1 M BRIDGE MEDIAN- NO MEDIAN 0		******** PROPOSED IMPROVEMENTS *******
	035		TYPE OF WORK- CODE
(34)	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M INVENTORY ROUTE TOTAL HORIZ CLEAR 8.8 M		BRIDGE IMPROVEMENT COST
80.000 May 2	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M		ROADWAY IMPROVEMENT COST
88777888880 8	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		TOTAL PROJECT COST
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M		YEAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR LT 0.0 M		FUTURE ADT 1282
*	************ NAVIGATION DATA *********	(115)	YEAR OF FUTURE ADT 2032
	VAVIGATION CONTROL- NOT APPLICABLE CODE N		************* INSPECTIONS **********
15000,0000,000	PIER PROTECTION- CODE		INSPECTION DATE 08/15 (91) FREQUENCY 48 MO
	NAVIGATION VERTICAL CLEARANCE 0.0 M		CRITICAL FEATURE INSPECTION: (93) CFI DATE
30100-0000 E	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		FRACTURE CRIT DETAIL- NO MO A)
(40)	VAVIGATION HORIZONTAL CLEARANCE 0.0 M		UNDERWATER INSP- NO MO B) OTHER SPECIAL INSP- NO MO C)
		C)	OTHER SPECIAL INSP- NO MO C)