



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0125
Facility Carried: PEDESTRIAN OC
Location : 1.0 MI. S/O CHAPMAN AVE.
City :
Inspection Date : 08/05/2015

Bridge Inspection Report

Inspection Type
Routine FC Underwater Special Other

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STRUCTURE NAME: HIGHCLIFF DRIVE POC

CONSTRUCTION INFORMATION

Year Built : 1969 Skew (degrees): 20
Year Widened: N/A No. of Joints : 0
Length (m) : 49.1 No. of Hinges : 0

Structure Description: Continuous two span CIP/RC box girder (2 cells) with an RC single column bent and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (S) 2 @ 24.4 m (N) c/c

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: PEDESTRIAN
Inventory Rating: N/A Calculation Method: NO RATING ANALYSIS
Operating Rating: N/A Calculation Method: NO RATING ANALYSIS
Permit Rating : N/A
Posting Load : Type 3: N/A Type 3S2: N/A Type 3-3: N/A

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.3 m br, 6.4 m, 0.3 m br (E)

Total Width: 7.0 m Net Width: m No. of Lanes: Speed: 0 mph
Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 Inches

Rail Code: 1111

Rail Type	Location	Length (ft)	Rail Modifications
Type 1	Right/Left	354	

DESCRIPTION UNDER STRUCTURE

Facility Name	Func Class	Lanes	Horiz Clr (m)	Vert Clr (m)
NEWPORT BLVD	14	4	11.40	4.88

Channel Description: None.

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 entire bridge was inspected and all elements were inspected.

ELEMENT INSPECTION RATINGS AND NOTES

Elem No.	Defect /Prot	Defect	Element Description	Env	Total Qty	Units	Qty in each	Condition	State
							St. 1	St. 2	St. 3 St. 4
16			Top Flange-RC	2	344	sq.m	344	0	0 0
	1130		Cracking (RC and Other)	2	314		314	0	0 0
(16-1130) There are map cracks 0.5 mm wide at 2 ft spacing throughout the deck.									
105			Box Girder-RC	2	49	m	47	2	0 0
	1130		Cracking (RC and Other)	2	2		0	2	0 0
(105) There are hairline diagonal cracks at both ends of the box girder 2 ft apart									
(105-1130) There are dia									
205			Column-RC	2	1	each	1	0	0 0
(205) There were no significant defects noted.									
215			Abutment-RC	2	22	m	22	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.									
333			Railing-Other	2	100	m	100	0	0 0
(333) 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) (Date) 9/23/15



STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME- CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0125
 (5) INVENTORY ROUTE(ON/UNDER) - ON 1
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED- NEWPORT BOULEVARD
 (7) FACILITY CARRIED- PEDESTRIAN OC
 (9) LOCATION- 1.0 MI. S/O CHAPMAN AVE.
 (11) MILEPOINT/KILOMETERPOINT
 (12) BASE HIGHWAY NETWORK-
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 46 MIN 52.65 SEC
 (17) LONGITUDE 117 DEG 46 MIN 29.84 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN:MATERIAL- CONCRETE COT
 TYPE- BOX BEAM OR GIRDER - MULTI CODE 205
 (44) STRUCTURE TYPE APPR:MATERIAL- OTHER/NA
 TYPE- OTHER/NA CODE 000
 (45) NUMBER OF SPANS IN MAIN UNIT 2
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE- CIP CONCRETE CODE 1
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE- NONE CODE 0
 B) TYPE OF MEMBRANE- NONE CODE 0
 C) TYPE OF DECK PROTECTION- NONE CODE 0

***** AGE AND SERVICE *****

(27) YEAR BUILT 1969
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON- PEDESTRIAN-BICYCLE 3
 UNDER- HIGHWAY W/O PEDESTF 1
 (28) LANES:ON STRUCTURE UNDER STRUCTURE 04
 (29) AVERAGE DAILY TRAFFIC 0
 (30) YEAR OF ADT (109) TRUCK ADT 0 %
 (19) BYPASS, DETOUR LENGTH 0 KM

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 24.4 M
 (49) STRUCTURE LENGTH 49.1 M
 (50) CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 0.0 M
 (52) DECK WIDTH OUT TO OUT 7.0 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 0.0 M
 (33) BRIDGE MEDIAN- NO MEDIAN 0
 (34) SKEW 20 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 0.00 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 0.0 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF- HIGHWAY 4.87 M
 (55) MIN LAT UNDERCLEAR RT REF- HIGHWAY 1.5 M
 (56) MIN LAT UNDERCLEAR LT 1.2 M

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL- NOT APPLICABLE CODE N
 (111) PIER PROTECTION- CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0 M
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0 M

***** SUFFICIENCY RATING =
 STATUS
 HEALTH INDEX 99.8
 PAINT CONDITION INDEX = N/A

***** CLASSIFICATION ***** CODE

(112) NBIS BRIDGE LENGTH- YES Y
 (104) HIGHWAY SYSTEM-
 (26) FUNCTIONAL CLASS-
 (100) DEFENSE HIGHWAY-
 (101) PARALLEL STRUCTURE- NONE EXISTS N
 (102) DIRECTION OF TRAFFIC-
 (103) TEMPORARY STRUCTURE-
 (105) FED.LANDS HWY-
 (110) DESIGNATED NATIONAL NETWORK -
 (20) TOLL-
 (21) MAINTAIN- COUNTY HIGHWAY AGENCY 02
 (22) OWNER- COUNTY HIGHWAY AGENCY 02
 (37) HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5

***** CONDITION ***** CODE

(58) DECK 8
 (59) SUPERSTRUCTURE 7
 (60) SUBSTRUCTURE 8
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

***** LOAD RATING AND POSTING ***** CODE

(31) DESIGN LOAD- PEDESTRIAN 7
 (63) OPERATING RATING METHOD- NO RATING ANALYSIS 5
 (64) OPERATING RATING- N/A
 (65) INVENTORY RATING METHOD- NO RATING ANALYSIS 5
 (66) INVENTORY RATING- N/A
 (70) BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
 (41) STRUCTURE OPEN, POSTED OR CLOSED- A
 DESCRIPTION- OPEN, NO RESTRICTION

***** APPRAISAL ***** CODE

(67) STRUCTURAL EVALUATION 7
 (68) DECK GEOMETRY *
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL 3
 (71) WATER ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 6
 (36) TRAFFIC SAFETY FEATURES 1111
 (113) SCOUR CRITICAL BRIDGES N

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK- CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT M
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT
 (115) YEAR OF FUTURE ADT

***** INSPECTIONS *****

(90) INSPECTION DATE 08/15 (91) FREQUENCY 72 MO
 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
 A) FRACTURE CRIT DETAIL- NO MO A)
 B) UNDERWATER INSP- NO MO B)
 C) OTHER SPECIAL INSP- NO MO C)