DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0555
Facility Carried: PEDESTRIAN WALKWAY
Location : 0.5 M S/O PARK LANTEM
City :
Inspection Date : 04/26/2012

Bridge Inspection Report

Inspection Type
Routine FC Underwater Special Other
X

STRUCTURE NAME: CAPISTRANO SRFSD INN POC

CONSTRUCTION INFORMATION

Year Built : 1986
Year Widened: N/A
Length (m) : 52.7
Skew (degrees): 0
No. of Joints : 0
No. of Hinges : 0

Structure Description: Simply supported 2-span PC/PS concrete I-girder (2 each) with RC single column bents, all supported upon concrete piles. RC stairway upon steel girders at the approaches.

Span Configuration : (S) 25.0 m, 25.3 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load: PEDESTRIAN
Inventory Rating: N/A metric tonnes Calculation Method: NO RATING ANALYSIS
Operating Rating: N/A metric tonnes 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) 1.5 m (E)
Total Width: .0 m Net Width: N/A No. of Lanes:
Rail Description: None Rail Code : NNNN
Min. Vertical Clearance: 0.0

DESCRIPTION UNDER STRUCTURE

Facility Name	Func Class	Lanes	Horiz Clr (m)	Vert Clr (m)
COAST HWY	14	4	26.20	5.99

Channel Description: None.

INSPECTION COMMENTARY

REVISIONS

Element 109 - moved 4 m to St. 2 and 8 m to St. 3.

CONDITION OF STRUCTURE

There are minor mapping deck cracks over bent 2.

The light bulbs is missing in the second light from west end and anther light is missing the cover and wires are exposed.

Ocean environment caused the reinforcement to corrode quicker, which leads to concrete spalls and delaminating at the following locations:
Span 2, over PCH, north girder, a spall in east end corner 600 mm x 100 mm x 50 mm with rusted exposed rebar, 2 spalls in the east bottom face 300 mm x 150 mm x 20 mm, and a spall
in the middle span 400 mm x 150 mm x 75 mm with rusted exposed rebar.
Span 2, over PCH, south girder, a spall in east end corner south face 600 mm x 300 mm x

INSPECTION COMMENTARY

100 mm, a spall in the east end bottom face 1 m x 300 mm x 20 mm with 5 rusted exposed rebar, a spall in the bottom of the top flange of the I girder south face 700 mm x 100 mm x 75 mm, a spall in the south end 600 mm x 75 mm x 50 mm with rusted exposed rebar, and 2 spalls over the bent #2 300 mm x 200 mm x 100 mm.
Span 1, over the railroad, north girder, 2 spalls in the east end bottom face 300 mm x 150 mm x 25 mm with rusted exposed rebar, and a spall in north face at the middle of the girder 300 mm x 600 mm x 25 mm rusted exposed rebar.
Span 1, over the railroad, south girder, a spall in the east end south face 100 mm x 300 mm x 50 mm rusted exposed rebar, and a spall in the west end south face over the support 600 mm x 200 mm x 100 mm.

The bottom of the chain link fence posts have corroded and caused the concrete to cracked and some bolts are missing at the base of some post.

ELEMENT INSPECTION RATINGS

Elem No.	Element Description	Env	Total Qty	Units	Qty in each Condition State St. 1	St. 2	St. 3	St. 4	St. 5
12	Concrete Deck - Bare	3	38	sq.m.	38	0	0	0	0
109	P/S Conc Open Girder/Beam	3	52	m.	40	4	8	0	
205	Reinforced Conc Column or Pile Extension	3	2	ea.	2	0	0	0	0
227	Reinforced Conc Submerged Pile	3	1	ea.	1	0	0	0	0
302	Compression Joint Seal	3	2	m.	2	0	0	0	0
312	Enclosed/Concealed Bearing	3	2	ea.	2	0	0	0	0

WORK RECOMMENDATIONS

RecDate: 04/24/2006
Action : Super-Patch spalls
Work By: LOCAL AGENCY
Status : PROPOSED

EstCost:
StrTarget: 2 YEARS
DistTarget:
EA:

Remove the unsound concrete form the girdge delamination and repair all spalls at all location on all the I girders.

Inspected By : MT.Zaarour/RR.Morgan

Mikhael T. Zaarour (Registered Civil Engineer)

REGISTERED PROFESSIONAL ENGINEER
Mikhael T. Zaarour
No. 68212
09/30/2013
CIVIL
STATE OF CALIFORNIA

STRUCTURE INVENTORY AND APPRAISAL REPORT

********** IDENTIFICATION **********

(1) STATE NAME- CALIFORNIA 069
(8) STRUCTURE NUMBER 55C0555
(5) INVENTORY ROUTE(ON/UNDER)- UNDER 2500M0370
(2) HIGHWAY AGENCY DISTRICT 12
(3) COUNTY CODE 059 (4) PLACE CODE 00000
(6) FEATURE INTERSECTED- PACIFIC COAST HIGHWAY
(7) FACILITY CARRIED- PEDESTRIAN WALKWAY
(9) LOCATION- 0.5 M S/O PARK LANTEM
(11) MILEPOINT/KILOMETERPOINT 0
(12) BASE HIGHWAY NETWORK- PART OF NET 1
(13) LRS INVENTORY ROUTE & SUBROUTE 000000M037
(16) LATITUDE 33 DEG 27 MIN 30.47 SEC
(17) LONGITUDE 117 DEG 40 MIN 22.11 SEC
(98) BORDER BRIDGE STATE CODE % SHARE %
(99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN:MATERIAL- PRSTR CONC CONT
TYPE- STRINGER/MULTI-BEAM OR GDR CODE 602
(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 6
(107) DECK STRUCTURE TYPE- CIP CONCRETE CODE 1
(108) WEARING SURFACE / PROTECTIVE SYSTEM:
A) TYPE OF WEARING SURFACE- CONCRETE CODE 1
B) TYPE OF MEMBRANE- NONE CODE 0
C) TYPE OF DECK PROTECTION- NONE CODE 0

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

(27) YEAR BUILT 1986
(106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE: ON- PEDESTRIAN-BICYCLE 3
UNDER- HIGHWAY-RAILROAD 4
(28) LANES:ON STRUCTURE UNDER STRUCTURE 04
(29) AVERAGE DAILY TRAFFIC 19000
(30) YEAR OF ADT 2002 (109) TRUCK ADT 1 %
(19) BYPASS, DETOUR LENGTH 10 KM

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

(48) LENGTH OF MAXIMUM SPAN 27.7 M
(49) STRUCTURE LENGTH 52.7 M
(50) CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M
(51) BRIDGE ROADWAY WIDTH CURB TO CURB N
(52) DECK WIDTH OUT TO OUT 0.0 M
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) N
(33) BRIDGE MEDIAN- NO MEDIAN 0
(34) SKEW 0 DEG (35) STRUCTURE FLARED NO
(10) INVENTORY ROUTE MIN VERT CLEAR 5.99 M
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 26.2 M
(53) MIN VERT CLEAR OVER BRIDGE RDWY 0.00 M
(54) MIN VERT UNDERCLEAR REF- HIGHWAY 5.99 M
(55) MIN LAT UNDERCLEAR RT REF- HIGHWAY 2.4 M
(56) MIN LAT UNDERCLEAR LT 0.0 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

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SUFFICIENCY RATING =
STATUS
HEALTH INDEX .0
PAINT CONDITION INDEX = N/A

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

(112) NBIS BRIDGE LENGTH- YES Y
(104) HIGHWAY SYSTEM- NOT ON NHS 0
(26) FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
(100) DEFENSE HIGHWAY- NOT STRAHNET 0
(101) PARALLEL STRUCTURE- NONE EXISTS N
(102) DIRECTION OF TRAFFIC- 2 WAY 2
(103) TEMPORARY STRUCTURE-
(105) FED.LANDS HWY- NOT APPLICABLE 0
(110) DESIGNATED NATIONAL NETWORK - NOT ON NET 0
(20) TOLL- ON FREE ROAD 3
(21) MAINTAIN- COUNTY HIGHWAY AGENCY 02
(22) OWNER- COUNTY HIGHWAY AGENCY 02
(37) HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5

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

(58) DECK 7
(59) SUPERSTRUCTURE 5
(60) SUBSTRUCTURE 7
(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-
(41) STRUCTURE OPEN, POSTED OR CLOSED- A
DESCRIPTION- OPEN, NO RESTRICTION

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

(67) STRUCTURAL EVALUATION 5
(68) DECK GEOMETRY *
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL 4
(71) WATER ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 6
(36) TRAFFIC SAFETY FEATURES NNNN
(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 53049
(115) YEAR OF FUTURE ADT 2034

********** INSPECTIONS **********

(90) INSPECTION DATE 04/12 (91) FREQUENCY 24 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)