STATE OF CALIFORNIA - CALIFORNIA STATE TRANSPORTATION AGENCY

EDMUND G. BROWN JR., Governor

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

Making Conservation a California Way of Life.

September 25, 2018

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 1 bridge 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 Report, please contact Bing Wu @ (213) 897-0874.

Sincerely,

CHING CHAO
Office Chief
Structure Maintenance & Investigations - (Investigations-South)

Enclosures

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Bridge Report Transmittal Sheet

Batch 45767

County of Orange

Bridge #	Bridge Name	Location	Inspection Date	Inspection Type	Outstanding Work	Outstanding Cost
55C0555	CAPISTRANO SRFSD INN POC	0.5 M S/O PARK LANTEM	04/30/2018	Routine	Y	$

1 Bridge(s) in this Transmittal

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WEB SITES:
The National Bridge Inspection Standards (NBIS) Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, Element Level Inspection, Structure Maintenance and Investigations Manuals, Local Assistance Program Guidelines and other related information are posted on Division of Maintenance, Structure Maintenance and Investigations; Division of Local Assistance, Local Highway Bridge Program (HBP) and FHWA websites.
The websites can be accessed at:
1. "Caltrans Structure Maintenance and Investigations" http://www.dot.ca.gov/hq/structur/strmaint/
2. "Caltrans Division of Local Assistance"
http/www.dot.ca.gov/hq/LocalPrograms/hbrr99/hbrr99a.htm
3. "FHWA" http/www.fhwa.dot.gov/BRIDGE/mtguide.pdf

Inspection Type Definitions

Routine Inspection:
Routine Inspections consist of both the initial Inventory Inspection (the first inspection of the bridge that places it in the bridge inventory or when there has been a change in the configuration of the structure) and subsequent regularly scheduled inspections. The initial inspection provides all the Structural Inventory & Appraisal (SI&A) data required by federal and state regulations, determines the baseline structural conditions, lists any existing problems, and establishes the load capacity of the structure. Subsequent inspections consist of observations, measurements needed to determine the physical and functional condition of the bridge, to identify any changes from the previously recorded conditions, and verification of its load capacity. These inspections are generally conducted from the deck, ground and/or water level, and from permanent work platforms and walkways, if present. Inspection of underwater portions of the substructure is limited to observations during low-flow periods and/or probing for signs of undermining. Special equipment should be utilized in circumstances where its use provides the only practical access to areas of the structure.

Fracture Critical, Special Feature & Underwater Inspections:
Fracture Critical, Special Feature, and Underwater Inspections are up close, hands-on inspections of one or more members above or below the water level to identify any deficiencies not readily detectable using Routine Inspection procedures. These inspections generally require special equipment such as under-bridge inspection equipment, manlifts, boats, traffic control, and railroad flagging. Personnel with special skills such as divers or structural steel inspectors trained in non-destructive testing techniques may be required.

Other Inspections:
Other Inspections are conducted on damaged structures, structures that have developed specific problems, or structures suspected of developing problems. The scope of these investigations should be sufficient to determine the need for emergency load restrictions or closure of the structure, monitor a changing condition, and to assess the level of effort necessary to effect a repair.

DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0555
Facility Carried: PEDESTRIAN WALKWAY
Location : 0.5 M S/O PARK LANTEM
City :
Inspection Date : 04/30/2018

Bridge Inspection Report

Inspection Type

Routine	FC	Underwater	Special	Other
X				

STRUCTURE NAME: CAPISTRANO SRFSD INN POC

CONSTRUCTION INFORMATION

Year Built : 1986
Year Modified: 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) 82.0 feet, 83.0 (N)

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) 5.0 feet (E)
Total Width: N/A Net Width: N/A No. of Lanes: N/A Speed: N/A
Min. Vertical Clearance: 0.0 m Overlay Thickness: 0.0 inches
Rail Code: NNNN

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.

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

HISTORY
The bridge section is over the Pacific Coast Highway/PCH 01 (State Bridge) Traffic that has been moved at the time of inspection.

SCOPE AND ACCESS
A complete routine inspection was performed by walking on and around the bridge to

INSPECTION COMMENTARY

inspect all visible elements of the bridge structure. Bridge deck was inspected by walking on the superstructure. Soffit and all substructure were inspected by walking underneath the bridge.

There is no need of a special equipment to inspect this structure.

DECK AND ROADWAY
The entire concrete members of this structure were painted; and there is no notable distress observed at the time of inspection.

The Chain Link Fence was painted fairly new at the time of inspection.

SUPERSTRUCTURE
The deck soffit is covered by metal corrugated sheet. There is no notable distress observed at the time of inspection.

SUBSTRUCTURE
There is no notable distress observed at the time of inspection.

MISCELLANEOUS
There is rust mainly along, on top and bottom flanges of spans #1 through #3 and #5 to #7. Span #4 is over the railroad. in addition, Rust is building up inside the corner between the webs and flanges of all steel staircase; and also, those right triangular metal brackets that support the concrete treads are rusted too. Due to the natural environment location of this structure, the paint system of all steel members is about 25% rusted,

ELEMENT INSPECTION RATINGS AND COMMENTARY

Elem No.	Defect /Prot	Defect	Element Description	Env	Total Qty	Units	Qty in each Condition State St. 1	St. 2	St. 3	St. 4
12			**Deck-RC**	3	38	sq.m	38	0	0	0
(12) There were no significant defects noted.										
109			**Girder/Beam-PS Conc.**	2	52	m	52	0	0	0
(109) The deck soffit is covered by metal corrugated sheet. There is no notable distress observed at the time of inspection.										
205			**Column-RC**	3	6	each	6	0	0	0
(205) There were no significant defects noted.										
227			**Pile-RC**	3	1	ea.	1	0	0	0
(227) 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.										
312			**Bearing-Enclosed**	3	2	each	2	0	0	0
(312) There were no significant defects noted.										

WORK RECOMMENDATIONS

WORK RECOMMENDATIONS

RecDate: 04/30/2018
Action : Paint Misc. Activity
Work By: LOCAL AGENCY
Status : PROPOSED

EstCost:
StrTarget: 2 YEARS
DistTarget:
EA:

Remove and repaint all rust on all steel members of this structure, mainly the two steel girders support all staircase for the entire structure, including metal triangular brackets underneath concrete treads.

Team Leader : Edwin Mah

Report Author : Edwin Mah

Inspected By : E.Mah/NN.Vo

9/18/2018

Edwin Mah (Registered Civil Engineer) (Date)

STRUCTURE INVENTORY AND APPRAISAL REPORT

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

(1) STATE NAME- CALIFORNIA 069
(8) STRUCTURE NUMBER **55C0555**
(5) INVENTORY ROUTE(ON/UNDER)- UNDER 250000000
(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 29.84 SEC
(17) LONGITUDE 117 DEG 40 MIN 22.69 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 2017 (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 2.2 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

****
SUFFICIENCY RATING =
STATUS
HEALTH INDEX 100.0
PAINT CONDITION INDEX = N/A

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

(112) NBIS BRIDGE LENGTH- YES Y
(104) HIGHWAY SYSTEM- ROUTE ON NHS 1
(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 7
(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 7
(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 04/18 (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)

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

100 - PHOTO-Routine-Roadway View

Photo No. 1

Deckview looking south

101 - PHOTO-Routine-Elevation View

Photo No. 1

Elevation looking at both trances' staircase

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

101 - PHOTO-Routine-Elevation View

Photo No. 1
Elevation looking south

101 - PHOTO-Routine-Elevation View

Photo No. 1
Entrance along the PCH 01

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

101 - PHOTO-Routine-Elevation View

Photo No. 1

Elevation looking South. Left section of St. Bridge was removed at the time of inspection

101 - PHOTO-Routine-Elevation View

Photo No. 1

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

101 - PHOTO-Routine-Elevation View

Photo No. 1

114 - PHOTO-Sub-Details

Photo No. 1
Steel girders of staircase

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

114 - PHOTO-Sub-Details

Photo No. 1

114 - PHOTO-Sub-Details

Photo No. 1

Steel girders of staircase

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

117 - PHOTO-Sub-Misc.

Photo No. 1

117 - PHOTO-Sub-Misc.

Photo No. 1

Entrance staircase from the Doheny Beach Park

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

117 - PHOTO-Sub-Misc.

Photo No. 1
Staircase, PCH entrance

117 - PHOTO-Sub-Misc.

Photo No. 1

CAPISTRANO SRFSD INN POC

0.5 M S/O PARK LANTEM | 04/30/2018 [AAAI] | 55C0555

135 - PHOTO-Routine-Underside View

Photo No. 1

Deck soffit is covered by corrugated metal sheet

136 - PHOTO-Routine-Google Map View

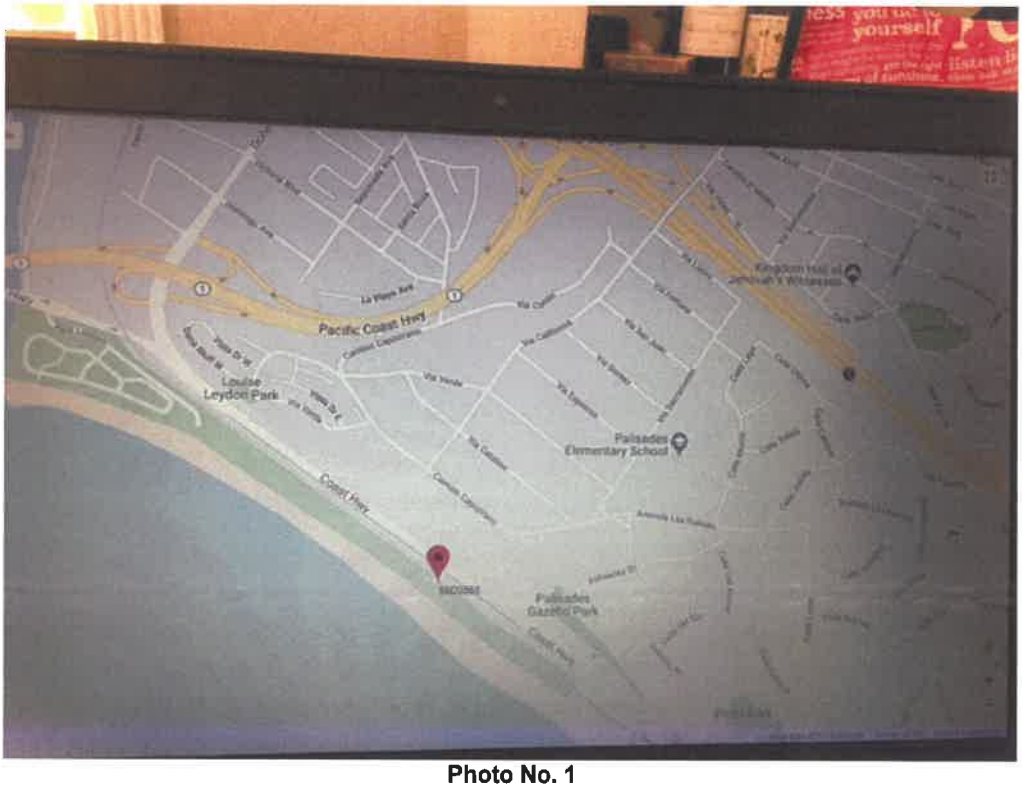

Photo No. 1