

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0059

Facility Carried: SANTIAGO CANYON RD Location : 0.8 MI N/O MODJESKA RD

City

Inspection Date: 05/13/2011

Inspection Type

Routine FC Underwater Special Other X

Bridge Inspection Report

STRUCTURE NAME: WILLIAMS CANYON CREEK

CONSTRUCTION INFORMATION

Year Built : 1970 Year Widened: 1983 Length (m) : 10.7

Skew (degrees): No. of Joints: 0 No. of Hinges :

Structure Description: Single span CIP/RC rigid frame deck slab supported upon spread

footings.

Span Configuration : (S) 1 @ 10.1 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: 32.6 metric tonnes

Operating Rating: 53.5 metric tonnes

Calculation Method: LOAD FACTOR Calculation Method: LOAD FACTOR

Permit Rating : PPPPP

Posting Load : Type 3: Legal Type 3S2:Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.2 m br, 15.92 m, 0.2 m br (E)

Total Width: 16.2 m Net Width: 15.9 m

No. of Lanes: 2

Rail Description: Type 15 Metal Railing

Rail Code : 0000

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with a cobbled bottom and with rock slopes

CONDITION TEXT

CONDITION OF STRUCTURE

There is 0.3 m deep and 2 m wide water in span #2; all elements were visually inspection.

Deck is 60% light scaling.

The runoff water is washed the embankment materials exposing the end section of the southeast wingwall.

ELEMENT INSPECTION RATINGS								
Elem No. Element Description	Env	Total Qty	Units		y in eac St. 2			
38 Concrete Slab - Bare	2	160	sq.m.	160	0	0	0	0
215 Reinforced Conc Abutment	2	32	m.	32	- 0	. 0	0	0
337 Metal Railing (W6X25 Posts)	2	42	m.	42	0	0	0	0

WORK RECOMMENDATIONS

Printed on: Thursday 06/16/2011 01:04 PM

55C0059/AAAF/21099

WORK RECOMMENDATIONS

RecDate: 05/13/2011

Action : Drainage Issue Work By: LOCAL AGENCY

Status : PROPOSED

EstCost:

DistTarget:

Provide suitable material at the

StrTarget: 2 YEARS southeast slope next to the winwall to prevent future degradation from runoff

water.

Inspected By : MT.Zaarour/M.Zolfaghari

Mikhael T. Zaarour (Registered Civil Engineer)



STRUCTURE INVENTORY AND APPRAISAL REPORT

	*************** IDENTIFICATION **********		*************
(1	STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 86.0
	STRUCTURE NUMBER 55C0059		STATUS
	INVENTORY ROUTE (ON/UNDER) - ON 1400L0300		HEALTH INDEX 100.0
	HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = N/A
	COUNTY CODE 059 (4) PLACE CODE 00000		******* CLASSIFICATION ******** CODE
		(112)	
	FEATURE INTERSECTED- WILLIAMS CANYON CREEK		HICHWAY CYCERN NOT ON MIC
	FACILITY CARRIED- SANTIAGO CANYON RD		
	LOCATION- 0.8 MI N/O MODJESKA RD		FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
	MILEPOINT/KILOMETERPOINT 0		DEFENSE HIGHWAY- NOT STRAHNET 0
	BASE HIGHWAY NETWORK- PART OF NET 1		PARALLEL STRUCTURE- NONE EXISTS N
	LRS INVENTORY ROUTE & SUBROUTE 000000L03000		DIRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 43 MIN 43.56 SEC		TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 39 MIN 01.26 SEC		FED.LANDS HWY- NOT APPLICABLE 0
(98)	BORDER BRIDGE STATE CODE % SHARE %		DESIGNATED NATIONAL NETWORK - NOT ON NET 0
(99)	BORDER BRIDGE STRUCTURE NUMBER		TOLL- ON FREE ROAD 3
	****** STRUCTURE TYPE AND MATERIAL ******		MAINTAIN- COUNTY HIGHWAY AGENCY 02
	· ·		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		******** CODE
(11)	TYPE- OTHER/NA CODE 000	(58)	DECK 7
(45)	NUMBER OF SPANS IN MAIN UNIT 1		SUPERSTRUCTURE 7
	_		SUBSTRUCTURE 7
	NUMBER OF APPROACH SPANS 0		CHANNEL & CHANNEL PROTECTION 8
	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1		CVI VIDE CO
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(02)	COLVERTS
	TYPE OF WEARING SURFACE- NONE CODE 0		****** LOAD RATING AND POSTING ****** CODE
	TYPE OF MEMBRANE- NONE CODE 0	(31)	DESIGN LOAD- MS-18 OR HS-20 5
()	TYPE OF DECK PROTECTION- NONE CODE 0	(63)	OPERATING RATING METHOD- LOAD FACTOR 1
	******** AGE AND SERVICE *********	(64)	OPERATING RATING- 53.5
(27)	YEAR BUILT 1970	(65)	INVENTORY RATING METHOD- LOAD FACTOR 1
(106)	YEAR RECONSTRUCTED 1983		INVENTORY RATING- 32.6
(42)	TYPE OF SERVICE: ON- HIGHWAY 1	(70)	BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(20)	UNDER- WATERWAY 5	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	LANES:ON STRUCTURE 02 UNDER STRUCTURE 00		DESCRIPTION- OPEN, NO RESTRICTION
	AVERAGE DAILY TRAFFIC 6000		
	YEAR OF ADT 2002 (109) TRUCK ADT 3 %		****** APPRAISAL ******** CODE
(19)	BYPASS, DETOUR LENGTH 39 KM		STRUCTURAL EVALUATION 7
	******** GEOMETRIC DATA **********		DECK GEOMETRY 9
(48)	LENGTH OF MAXIMUM SPAN 10.1 M		UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49)	STRUCTURE LENGTH 10.7 M		WATER ADEQUACY 8
(50)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M		APPROACH ROADWAY ALIGNMENT 8
(51)	BRIDGE ROADWAY WIDTH CURB TO CURB 15.9 M		TRAFFIC SAFETY FEATURES 0000
(52)	DECK WIDTH OUT TO OUT 16.2 M	(113)	SCOUR CRITICAL BRIDGES 8
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 15.9 M		****** PROPOSED IMPROVEMENTS *******
(33)	BRIDGE MEDIAN- NO MEDIAN 0	(75)	TYPE OF WORK- CODE
(34)	SKEW 0 DEG (35) STRUCTURE FLARED NO	(76)	LENGTH OF STRUCTURE IMPROVEMENT M
(10)	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		BRIDGE IMPROVEMENT COST
(47)	INVENTORY ROUTE TOTAL HORIZ CLEAR 15.9 M		ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M		TOTAL PROJECT COST
(54)	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		YEAR OF IMPROVEMENT COST ESTIMATE
(55)	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M		
	MIN LAT UNDERCLEAR LT 0.0 M		Section Company Control Contro
	*********** NAVIGATION DATA *********		
	NAVIGATION CONTROL- NOT APPLICABLE CODE N		*************** INSPECTIONS **********
	PIER PROTECTION- CODE		INSPECTION DATE 05/11 (91) FREQUENCY 48 MO
	NAVIGATION VERTICAL CLEARANCE 0.0 M	(92)	CRITICAL FEATURE INSPECTION: (93) CFI DATE
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		FRACTURE CRIT DETAIL- NO MO A)
	NAVIGATION HORIZONTAL CLEARANCE 0.0 M	B)	UNDERWATER INSP- NO MO B) OTHER SPECIAL INSP- NO MO C)
	0.0 M	C)	OTHER SPECIAL INSP- NO MO C)