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DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0477

Facility Carried: MASON REGIONAL PRK

Location : 50' s/o University Drive

City :

Inspection Date: 02/07/2018

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

STRUCTURE NAME: SAND CANYON WASH

CONSTRUCTION INFORMATION

Year Built : 1973 Skew (degrees): 99
Year Modified: N/A No. of Joints : 0
Length (m) : 12.2 No. of Hinges : 0

Structure Description: Triple 12 ft x 9 ft x 50 ft long RC box culvert under about 2 ft of

fill and AC surface.

Span Configuration : (S) 3 @ 12 ft (N) clear, normal

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: UNKNOWN

Inventory Rating: RF=1.00 =>32.4 metric tons Calculation Method: FIELD EVAL/ENG JUDGMENT Operating Rating: RF=1.67 =>54.1 metric tons Calculation Method: FIELD EVAL/ENG JUDGMENT

Permit Rating : PPPPP

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

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 1.5 ft r, 4 ft sw, 22.5 ft, 6 ft cu med, 11.5 ft, 4 ft sw, 1.5 ft r (E)

Total Width: 14.6 m Net Width: 10.4 m No. of Lanes: 3 Speed: 25 mph
Min. Vertical Clearance: Unimpaired Overlay Thickness: 3.0 inches

Rail Code: 0000

Rail Type	Location	Length	(ft)R	Rail Modifications
Miscellane	Left	60		
ous				
Miscellane	Right	60		
ous		14		

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with rock slopes at the site.

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

A routine inspection was performed by Y. Chen and M. Monajemi. The conditions of AC pavement surface and rails on the top of the bridge were inspected by walking along the sidewalks. The culvert could be accessed from both sides, the conditions of the cells

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INSPECTION COMMENTARY

were inspected by walking in front of the entrance areas and through all cells. The wash was dry at time of inspection.

SAFE LOAD CAPACITY

The load rating for this structure is being reviewed by SMI Ratings Branch, an updated Load Rating Summary will be archived when this review is complete. The latest Load Rating Summary Sheet prepared by ABME is archived on 12/12/2014 for this structure.

Elem		ECTION RATING Defect Eleme			Er	ıv '	Total Qty	Units			Condition	
241		Culvert-	RC		:	2	45	m	35	10	0	0
	1130	Cracking	(RC and Othe	er)	:	2	10		0	10	0	0
(241-1	130)											
There	are ver	tical and diag	onal cracks	up to 0.04	inches w	ide	and 3	feet	long i	n the	culvert	walls as
follow	s: 5 c	racks in Wall	1, 6 cracks	in Walls 2	& 3, and	1 3	cracks	in Wa	all 4.			
332		Railing-	 Timber		:	2	32	m	32	0	0	0
(332) There	were no	significant d	efects noted									

WORK RECOMMENDATIONS

RecDate: 06/08/2011 EstCost: Remove and clean the downstream channel Action: Remove Vegetation StrTarget: 2 YEARS from live trees and accumulated dirt

Work By: LOCAL AGENCY DistTarget:

Status : PROPOSED EA:

Team Leader : Young Chen

Report Author : Young Chen

Inspected By : Y.Chen/MM.Monajemi

Young Chen (Registered Civil Engineer) (Date)



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STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		**************************************
(1)	STATE NAME- CALIFORNIA 069		STATUS
(8)	STRUCTURE NUMBER 55C0477		
(5)	INVENTORY ROUTE (ON/UNDER) - ON 140000000		34.3
(2)	HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = N/A
(3)	COUNTY CODE 059 (4) PLACE CODE 00000		******** CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- SAND CANYON WASH	(112)	NBIS BRIDGE LENGTH- YES Y
(7)	FACILITY CARRIED- MASON REGIONAL PRK	(104)	HIGHWAY SYSTEM- NOT ON NHS 0
(9)	LOCATION- 50' s/o University Drive	(26)	FUNCTIONAL CLASS- LOCAL URBAN 19
(11)	MILEPOINT/KILOMETERPOINT 0	(100)	DEFENSE HIGHWAY- NOT STRAHNET 0
(12)	BASE HIGHWAY NETWORK- NOT ON NET 0	(101)	PARALLEL STRUCTURE- NONE EXISTS N
(13)	LRS INVENTORY ROUTE & SUBROUTE	(102)	DIRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 39 MIN 25.54 SEC	(103)	TEMPORARY STRUCTURE-
	LONGITUDE 117 DEG 49 MIN 53.14 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
	BORDER BRIDGE STATE CODE % SHARE %	(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STRUCTURE NUMBER	(20)	TOLL- ON FREE ROAD 3
(22)	BONDER BRIDGE SIRUCIONE NOMBER	(21)	MAINTAIN- COUNTY HIGHWAY AGENCY 02
1	******* STRUCTURE TYPE AND MATERIAL *******	(22)	OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE	(37)	HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
	TYPE- CULVERT CODE 119		
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		****** CODE
	TYPE- OTHER/NA CODE 000		DECK
(45)	NUMBER OF SPANS IN MAIN UNIT 3	(59)	SUPERSTRUCTURE
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE
(107)	DECK STRUCTURE TYPE- NOT APPLICABLE CODE N		CHANNEL & CHANNEL PROTECTION 8
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS 6
A)	TYPE OF WEARING SURFACE- NOT APPLICABLE CODE N		****** LOAD RATING AND POSTING ****** CODE
	TYPE OF MEMBRANE- NOT APPLICABLE CODE N		DESIGN LOAD- UNKNOWN 0
C)	TYPE OF DECK PROTECTION- NOT APPLICABLE CODE N		
	******* AGE AND SERVICE *********		OPERATING RATING METHOD- FIELD EVAL/ENG JUD 0 OPERATING RATING- 54.1
(27)	YEAR BUILT 1973		
	YEAR RECONSTRUCTED 0000		INVENTORY RATING METHOD- FIELD EVAL/ENG JUL 0
	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5		INVENTORY RATING- 32.4
(,	UNDER- WATERWAY 5		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES:ON STRUCTURE 03 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
(29)	AVERAGE DAILY TRAFFIC 300		DESCRIPTION- OPEN, NO RESTRICTION
(30)	YEAR OF ADT 2010 (109) TRUCK ADT 1 %		********** APPRAISAL ********** CODE
(19)	BYPASS, DETOUR LENGTH 199 KM	(67)	STRUCTURAL EVALUATION 6
	******* GEOMETRIC DATA **********	(68)	DECK GEOMETRY 2
(48)	LENGTH OF MAXIMUM SPAN 3.7 M	(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
()	STRUCTURE LENGTH 12.2 M	(71)	WATER ADEQUACY 9
, , ,	CURB OR SIDEWALK: LEFT 1.2 M RIGHT 1.2 M	(72)	APPROACH ROADWAY ALIGNMENT 6
	BRIDGE ROADWAY WIDTH CURB TO CURB 10.4 M	(36)	TRAFFIC SAFETY FEATURES 0000
	DECK WIDTH OUT TO OUT 14.6 M	(113)	SCOUR CRITICAL BRIDGES 8
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 10.4 M		******* PROPOSED IMPROVEMENTS ******
	BRIDGE MEDIAN- CLOSED (NO BARRIER) 2	/75\	
	SKEW 99 DEG (35) STRUCTURE FLARED NO		TYPE OF WORK- SUP/SUB REHAB CODE 35
			LENGTH OF STRUCTURE IMPROVEMENT 12.2 M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M INVENTORY ROUTE TOTAL HORIZ CLEAR 6.9 M		BRIDGE IMPROVEMENT COST \$114,000
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	, ,	ROADWAY IMPROVEMENT COST \$22,800
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		TOTAL PROJECT COST \$191,520
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M		YEAR OF IMPROVEMENT COST ESTIMATE 2017
	MIN LAT UNDERCLEAR LT 0.0 M	, ,	FUTURE ADT 368
	**************************************	(115)	YEAR OF FUTURE ADT 2036

	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 02/18 (91) FREQUENCY 48 MO
	PIER PROTECTION- CODE	(92)	CRITICAL FEATURE INSPECTION: (93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE 0.0 M	A)	FRACTURE CRIT DETAIL- NO MO A)
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M NAVIGATION HORIZONTAL CLEARANCE 0.0 M	B)	UNDERWATER INSP- NO MO B)
(30)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M	C)	OTHER SPECIAL INSP- NO MO C)