Bridge Inspection Records Information System

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The documents provided are considered confidential and may only be released outside of the department of transportation upon proper execution of the confidentiality agreement.

State of California
Department of Transportation

Division of Maintenance Structures Maintenance & Investigations



DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

: 55C0121 Bridge Number Facility Carried: BREA BLVD

0.4 MI N CENTRAL AVE Location

City

05-JUN-01

Inspection Date :

Inspection Type Routine Group A Underwater Special Other X

Bridge Inspection Report

Name : BREA CANYON CHANNEL

CONSTRUCTION INFORMATION

Year Built : Unknown Year Widened : 1929

Length (m) : 9.1 Skew (degrees): 32 No. of Joints: 0 No. of Hinges: 0

Description of Structure :

Continuous 2-span CIP/RC deck slab with an RC pier and RC closed end

backfilled strutted abutments. Foundation type is unknown.

Span Configuration : (S) 2 @ 4.1 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : OTHER OR UNKNOWN

Inventory Rating : 32.6 metric tons metric tons Operating Rating : 53.5

Calculation Method : LOAD FACTOR Calculation Method : LOAD FACTOR

Permit Rating : PPPPP

: Type 3 N/A english tons Posting Load

Type 3-3 N/A english tons Type 3S2 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (W) 3.4 m ea, 2 @ 5.6 m, 0.9 m ea (E)

Total Width: .0 m Net Width: 11.30 m

No. of Lanes: 2 Rail Code : 0000

Rail Description : (E) MBGR (W) None

Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with heavy bushes and trees in the channel bed.

CONDITION OF STRUCTURE

Because of water in the channel, only a surface inspection was performed.

There is a concrete spall (0.15 m \times 0.6 m \times 0.1 m) in the upstream nose of the pier. Probably impacted by debris. There are minor cracks in both ends of pier wall.

Otherwise, the structure is in good condition.

MISCELLANEOUS

ELI F#		LEVEL INSPECTION RATINGS m Element Description	Env	Total Units Quantity	St. 1	Qty in eac St. 2	ch Conditi	ion State St. 4	St. 5
01	39	Concrete Slab - Unprotected w/	2	100 sq.m.	100	0	0	0	0
0.1		AC Overlay Reinforced Conc Pier Wall	2	17 m.	16	1	0	0	0
		Reinforced Conc Abutment	2	34 m.	34	0	0	0	0

WORK RECOMMENDATIONS

Remove the bushes and the trees in the channel bed within 30 meters of the bridge to allow the water to flow properly.

Prog. Method Cost Work Id. Work By Rec. Date Item#

1

Printed on : 08-JUN-2001 10:20:11 AM

SMS12001 AAAC

Page 2 of 3

Bridge No.: 55C0121 Location: 0.4 MI N CENTRAL AVE

Inspection Date: 05-JUN-01

Exp. 12-31-01

05-JUN-2001

County Agency

40121X01156X

Inspected By : M. Ogata

Registered il Engineer

CC : TMRut Orange County

Printed on : 08-JUN-2001 10:20:11 AM

AVE Inspection Date: 05-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

	STRUCTURE INVENTOR	Y AND APPRAISAI	REPORT
	**************************************	•	SUFFICIENCY RATING = 93.6
,-,	STATE NAME - CALIFORNIA		STATUS =
	STRUCTURE NUMBER 5500121 INVENTORY ROUTE (ON/UNDER) - ON 1 40 0M003N		HEALTH INDEX = 99.01
	10		******** CLASSIFICATION ************************************
	HIGHWAY AGENCY DISTRICT	(112)	NBIS BRIDGE LENGTH - YES Y
	COUNTY CODE 059 (4) PLACE CODE 00000 FEATURE INTERSECTED - BREA CANYON CHANNEL	(104)	HIGHWAY SYSTEM - NOT ON NHS 0
			FUNCTIONAL CLASS - LOCAL URBAN 19
	FACILITY CARRIED - BREA BLVD LOCATION - 0.4 MI N CENTRAL AVE		DEFENSE HIGHWAY - NOT STRAHNET 0
	MILEPOINT/KILOMETERPOINT	}	PARALLEL STRUCTURE - NONE EXISTS N
	BASE HIGHWAY NETWORK - NOT ON NET)	DIRECTION OF TRAFFIC - 2 WAY 2
	LRS INVENTORY ROUTE & SUBROUTE		TEMPORARY STRUCTURE - REDERAL LANDS HIGHWAY - NOT APPLICABLE 0
	LATITUDE 33 DEG 56 MIN 16 SEC		FEDERAL LANDS HIGHWAY - NOT APPLICABLE 0 DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	LONGITUDE 117 DEG 53 MIN 31 SEC	1	TOLL - ON FREE ROAD 3
	BORDER BRIDGE STATE CODE % SHARE	L	MAINTAIN - COUNTY HIGHWAY AGENCY 2
	BORDER BRIDGE STRUCTURE NUMBER		OWNER - COUNTY HIGHWAY AGENCY 2
			HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5
	******** STRUCTURE TYPE AND MATERIAL ********	(3.7)	more and a second secon
(43)	STRUCTURE TYPE MAIN: MATERIAL - CONCRETE CODE 1 CODE 1	0.1	*********** CONDITION ************ CODE
	TIPE - SHAD		DECK 7
(44)	STRUCTURE TYPE APPR: MATERIAL -	(59)	SUPERSTRUCTURE 7
41	IIFE -	2 (60)	SUBSTRUCTURE 7
	NUMBER OF SPANS IN MAIN SHIT		CHANNEL & CHANNEL PROTECTION 8
	NUMBER OF APPROACH SPANS DECK STRUCTURE TYPE CIP CONCRETE CODE	1 (62)	CULVERTS
	WEARING SURFACE / PROTECTIVE SYSTEM:		******* LOAD RATING AND POSTING ******* CODE
	TYPE OF WEARING SURFACE - CONCRETE CODE	1	
	TYPE OF MEMBRANE - NONE CODE		DESIGN LOAD - OTHER OR UNKNOWN OPPRATING RATING METHOD - LOAD FACTOR
	TYPE OF DECK PROTECTION - NONE CODE	n `	OPERATING RATING METHOD - LOAD FACTOR 1 OPERATING RATING - 53.5
٠,) INVENTORY RATING METHOD - LOAD FACTOR 1
	******** AGE AND SERVICE ***********	•	32.6
,	YEAR BUILT) INVENTORY RATING - 32.6) BRIDGE POSTING - Equal to or above legal loads 5
	YEAR RECONSTRUCTED		STRUCTURE OPEN, POSTED OR CLOSED - A
(42)	TYPE OF SERVICE: ON - HIGHWAY	5 (41	DESCRIPTION - OPEN, NO RESTRICTION
(5.0)	UNDER - WATERWAY LANES: ON STRUCTURE 02 UNDER STRUCTURE		
	AVERAGE DAILY TRAFFIC 1500	0	************ APPRAISAL ************************************
		t . (67) STRUCTURAL EVALUATION 7
-	BYPASS, DETOUR LENGTH 2 F	QN	DECK GEOMETRY 4
(1)	**************************************	(69 **) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
	4.3	м ,) WATER ADEQUACE
	LENGIH OF MAXIMUM SPAN	(72	?) APPROACH ROADWAY ALIGNMENT
	STRUCTURE LENGIH	M (36	7 TRAFFIC SAFEII FEATONES
	CURB OR SIDEWALK: LEFT 0 M RIGHT 0 BRIDGE ROADWAY WIDTH CURB TO CURB 11.3		3) SCOUR CRITICAL BRIDGES
	DECK WIDTH OUT TO OUT	м	********** PROPOSED IMPROVEMENTS **********
	APPROACH ROADWAY WIDTH (W/SHOULDERS)	. М (75	5) TYPE OF WORK - CODE
		2 (76	5) LENGTH OF STRUCTURE IMPROVEMENT M
	SKEW 32 DEG (35) STRUCTURE FLARED	NO (94	4) BRIDGE IMPROVEMENT COST
	INVENTORY ROUTE MIN VERT CLEAR 99.95		5) ROADWAY IMPROVEMENT COST
) INVENTORY ROUTE TOTAL HORIZ CLEAR 8.5		6) TOTAL PROJECT COST
) MIN VERT CLEAR OVER BRIDGE RDWY 99.99		7) YEAR OF IMPROVEMENT COST ESTIMATE 30000
	MIN VERT UNDERCHEAR REF NOT 11/100		4) FUTURE ADI
(55) MIN EAT UNDERCHEAR RI REF - NOT 11/144		5) IEAR OF FOLDRE ADI
(56) MIN LAT UNDERCHEAR DI) M	**************************************
	************** NAVIGATION DATA ***********		0) INSPECTION DATE 06/01 (91) FREQUENCY 24 MO
(38) NAVIGATION CONTROL - NOT APPLICABLE CODE		2) CRITICAL FEATURE INSPECTION: (93) CFI DATE
) PIER PROTECTION - NOT REQUIRED CODE		A) FRACTURE CRIT DETAIL - NO -1 MO A)
) NAVIGATION VERTICAL CELARANCE		B) UNDERWATER INSP - NO -1 MO B) C) OTHER SPECIAL INSP - NO -1 MO C)
) VERT-LIFT BRIDGE MAY MIN VERT CERTAIN	0 M 0	C) OTHER SPECIAL INSP - NO -1 MO C)
(40) NAVIGATION HORIZONTAL CLEARANCE	•	

SUPPLEMENTARY BRIDGE REPORT

Date of Investigation April 14, 1939

Name BREA CANYON

VII-Ora-19-A

Dist.-Co.-Rt.-Sec.

Location 4.3 Miles north of junction with Route 2.

Sta. 15+48

Refer to original report dated April 1938 and subsequent supplementary report.

WORK DONE:-

Work Order #07XX19, \$1500, has been issued July 25, 1938 along with a supplement to Work Order #07Jl to:

- (1) Replace the failed original portion with a new RC slab on a central RC wall pier and RC wing abutments.
- (2) Strengthen the 1929 portion by extending the central RC wall. All work in accordance with Drawing # DL-840-2 & 3.

All work has been done properly in accordance with the two previous reports.

PRESENT CONDITION OF STRUCTURE:-

The structure is now in good condition and all members are acting properly.

RECOMMENDATIONS:-

No work is recommended at this time.

Next investigation, April 1940.

Fred M. Barnes

by John X. Beaton JI

Investigated 5/13/41 By RAW-

Next Investigation 5/43

Changes Noted None.

cc: District VII (2)
Maintenance Dept.
Mr. Wagner

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF STRUCTURES SUPPLEMENTARY BRIDGE REPORT

Bridge Number 55C-121

DS-M19 (REV. 2/93)

12 - Ora - FAS M003 - CR Location Dist.-Co.-Rte.-City

Date of Investigation September 10, 1997

TYPE OF INVESTIGATION/REPORT DAMAGE **BIENNIAL** X OTHER CATEGORY A UNDERWATER OFFICE

Name BREA CANYON CHANNEL (Brea Boulevard, 0.4 mile north of Central Avenue)

CONDITION RATINGS:

Element Level Inspection (ELI) form attached.

Channel & Channel Protection

8

SCOUR CRITICAL:

A scour rating of A-1 is appropriate.

MISCELLANEOUS DISCUSSION:

The inspection team consisted of Makoto Ogata and Faye Kirchhoff.

CONDITION OF STRUCTURE:

There is a concrete spall (0.15 m \times 0.6 m \times 0.1 m) in the upstream nose of the pier. Probably impacted by debris. There are minor (O)cracks in both ends of pier wall.

Otherwise, the condition of the structure is good.

WORK RECOMMENDED:

None.

MO:cd

c: TMRut

Orange County

ELEMENT LEVEL INSPECTION - (ELI)

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-	GROUP A INVESTIGATION NO
ĺ	FRACTURE CRITICAL NO
1	ELIGIBLE FOR RAIL UPGRADE NO
1	UNDERWATER INVESTIGATION NO

DISTRICT	12
COUNTY	ORA
ROUTE	
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NAME	

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08/11/97 55C SHAWN ZANGANEH

Location 12 - Ora - FAS M003-CR_

Dist.-Co.-Rte.-City

Date of Investigation ____July 14, 1995_____

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE ___

CATEGORY A ___ OTHER ___

UNDERWATER ___ OFFICE ___

Name <u>BREA CANYON CHANNEL (Brea Boulevard, 0.4 mile north of</u> Central Avenue)

CONDITION RATINGS:

Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

SCOUR CRITICAL:

A scour rating of A-1 is appropriate.

CONDITION OF STRUCTURE:

Surface inspection only. No access to bottom of river.

There are minor cracks in both ends of pier wall.

Condition of structure is good.

WORK RECOMMENDED:

None.

M. Hadi Behrooj

G. P. Balinghasay

GPB:cd

cc: CDHarris

Orange County

WLindsey

ELEMENT LEVEL INSPECTION - (ELI)

			DISTRICT	12
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10/19,96 30 SHAWN CANGANEH

PONTIS DATA FORM - PIA

BRIDGE NUMBER	FRAME	INSPECTION DATE
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INFORMATION ONLY - NOT FOR	UPDATE
SCOUR CRITICAL CATEGORY A FRACTURE CRITICAL ELIGIBLE FOR RAIL UPGRADE UNDERWATER INSPECTION	NO NO NO NO

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
NAME	

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07/18/95

12 - Ora - FAS M003-CR

Dist.-Co.-Rte.-City

TYPE	OF	INVESTIGATION/REPORT
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BIENNIAL

x DAMAGE

CATEGORY A

OTHER

UNDERWATER

OFFICE

Location

Date of Investigation April 16, 1993

Name BREA CANYON CHANNEL (Brea Boulevard, 0.4 mile north of Central Avenue)

CONDITION RATINGS:

Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

8

No. C-36817

CONDITION OF STRUCTURE:

Condition of the structure is good.

Henry Ma

HM:cd

cc: INagai (2)

County of Orange

PONTIS DATA FORM - PIA

BRIDGE NUMBER	FRAME	INSPECTION DATE
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1 8	9 -	11 16

SCOUR CRITICAL	NO
CATEGORY A	NO
FRACTURE CRITICAL	NO
ELIGIBLE FOR RAIL UPGRADE	NO
UNDERMATER INSPECTION	NO

DISTRICT	12
COUNTY	ORA
ROUTE	***
POSTMILE	XXXXXX
NAME	

DEL	EL			ELEMENT DESCRIPTION	E N V		OTA		UNITS	CONI	JANT DITIO	JN L	QUANT CONDITION STATE 2	QUANT CONDITION STATE 3	QUANT CONDITION STATE 4	QUANT CONDITION STATE 5
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18	19				22	23				28			33	38	43	48

H. MA

TOTO OF BERNER	111/20	Duides No	55C - 12	1		
BRIDGE REPORT		Dringe No.				
DS-M58 (REV. 1,91)	* •	Location	12 -Ora -	FAS MO)3-CR	
			Dist Co	Rte	City	,
REVISED ORIGINAL	REPORT	Date of Inve	stigation	April	12, 19	91
BREA CANYO	N CHANNEL (F	Brea Bouleva:	d, 0.4 mile	north	. of	
yame		Central Avenu	ie)		######################################	
Lat. 33°-56.3'N	Long. 11	7°-53.4'W	:			
Custodian County	of Orange	Ov	mer County o	of Orar	ige	
STRUCTURAL DATA A	ND HISTORY					
Year Built Unknow See Page	e 2					
Designed by: Count	y		Plans Avail.	@ None	.	
end ba	ckfilled RC	b supported l strutted abu Foundation	itments unde	vall an er 4'±	d close of fill	ed
Spans (S) 2 @ 1	3 6! (N)					
•					220 T.E	
Length 30'	NBIS Bridg	e, Length Ye	Skew			
Length 30'	NBIS Bridg	e, Length Ye	S Skew @Ben	ts	None	,,
Length 30'	NBIS Bridg	e, Length Ye	S Skew @Ben	ts	None	,,
Length 30' Number Of Intermediate Maximum Column/Pier	NBIS Bridg Joints: @Hin Height: (Less t	e, Length Ye ges None han 20') X	S Skew @ Ben	ts(30	None ' & Over)	
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load	NBIS Bridg e Joints: @Hin Height: (Less t	e, Length Ye ges None han 20') X	S Skew @ Ben	ts(30	None ' & Over)	
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load	NBIS Bridg e Joints: @Hin Height: (Less t	e, Length Ye ges None han 20') X	S Skew @ Ben	ts(30	None ' & Over)	
Number Of Intermediate Maximum Column/Pier Design Live Load	NBIS Bridg e Joints: @Hin Height: (Less t Unkno	e, Length Ye ges None han 20') X	Skew Ben (20'-29') Design Metho	(30 od	None ' & Over) Unknow	wn
Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON ST	NBIS Bridg e Joints: @Hin Height: (Less t Unkno	e, Length Yeges None han 20') X own	S Skew (20'-29') Design Metho	(30 od	None ' & Over) Unknow	vn
Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON ST	NBIS Bridg e Joints: @Hin Height: (Less t Unkno	e, Length Yeges None han 20') X own	S Skew @Ben (20'-29') Design Metho	(30 od	None ' & Over) Unknow	vn
Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI	NBIS Bridg e Joints: @Hing Height: (Less to the second test) Unknown RUCTURE L'ea, 37', 3	e, Length Ye ges None han 20') X own 3'ea, MBGR, 5	** Skew	(30 od	None '& Over) Unknow Tracks	wn None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI Bridge Width (W) 13 Fotal Width 56	NBIS Bridg e Joints: @Hin Height: (Less t Unkno RUCTURE L'ea, 37', 3 6' Net W	e, Length Ye ges None han 20') X own 3'ea, MBGR, 5 Vidth 37' Rail Typ	### Skew ### @Ben ### (20'-29') Design Method ###################################	control (30)	None ' & Over) Unknow Tracks	Wn None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI Bridge Width (W) 1.1 Fotal Width	NBIS Bridg e Joints: @Hin Height: (Less t Unkno RUCTURE L'ea, 37', 3 6' Net W None eck Ur	e, Length Ye ges None han 20') X own 3'ea, MBGR, 5 Vidth 37' Rail Typ nimpaired	S Skew Ben (20'-29') Design Metho ' ± ea (E) Lanes (W) e (E) Appr. Rdw	2 None MBGR	None We Over) Unknow Tracks	None
Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON ST Bridge Width (W) 13 Fotal Width 56 Median Vert, Clearance over d	NBIS Bridg e Joints: @Hin Height: (Less t	e Length Ye ges None han 20') X own 3'ea, MBGR, 5 Vidth 37' Rail Typ nimpaired	S Skew @Ben (20'-29') Design Metho '± ea (E) Lanes (W) (E) Appr. Rdw	2 None MBGR	None What Unknow Tracks	None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI Bridge Width (W) 11 Fotal Width 56 Median Vert. Clearance over d Deck Type 1 W Alignment Tangent	NBIS Bridg e Joints: @Hing Height: (Less to Unknown RUCTURE L'ea, 37', 3 6' Net Wone None eck Ur earing Surface/P	e Length Ye ges None han 20') X own 3'ea, MBGR, 5 Vidth 37' Rail Typ nimpaired	S Skew @Ben (20'-29') Design Metho '± ea (E) Lanes (W) (E) Appr. Rdw	2 None MBGR	None What Unknow Tracks	None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load	NBIS Bridg e Joints: @Hin Height: (Less t Unkno RUCTURE L'ea, 37', 3 6' Net W None eck Ur earing Surface/P	e, Length Ye ges None han 20') X own 3'ea. MBGR. 5 Vidth 37' Rail Typ nimpaired Prot. Sys. 100	Skew Ben (20'-29') Design Metho '± ea (E) Lanes (W) (E) Appr. Rdw	2 None MBGR y. Width	None Wer) Unknow Tracks	None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI Bridge Width (W) 13 Total Width 56 Median Vert. Clearance over d Deck Type 1 W Alignment Tangent DESCRIPTION - UNDER	NBIS Bridg e Joints: @Hing Height: (Less t	e, Length Ye ges None han 20') X own 3'ea, MBGR, 5 Vidth 37' Rail Typ nimpaired Prot. Sys. 100	** Skew	2 None MBGR y. Width	None Wer) Unknow Tracks	None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI Bridge Width (W) 11 Total Width 56 Median Vert. Clearance over d Deck Type 1 W Alignment Tangent DESCRIPTION - UNDER Roadway Section No Clearances: Road:	NBIS Bridg e Joints: @Hing Height: (Less t	e, Length Ye ges None han 20') X own 3'ea, MBGR, 5 Vidth 37' Rail Typ nimpaired Prot. Sys. 100	** Skew	2 None MBGR y. Width	None Wer) Unknow Tracks	None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI Bridge Width (W) 13 Fotal Width 56 Median Vert. Clearance over d Deck Type 1 W Alignment Tangent DESCRIPTION - UNDER	NBIS Bridg e Joints: @Hing Height: (Less t	e, Length Ye ges None han 20') X own 3'ea, MBGR, 5 Vidth 37' Rail Typ nimpaired Prot. Sys. 100	** Skew	2 None MBGR y. Width	None Wer) Unknow Tracks	None
Length 30' Number Of Intermediate Maximum Column/Pier Design Live Load DESCRIPTION - ON STI Bridge Width (W) 13 Fotal Width 56 Median Vert. Clearance over d Deck Type 1 W Alignment Tangent DESCRIPTION - UNDER	NBIS Bridg e Joints: @Hin Height: (Less t	e, Length Yeges None han 20') X own S'ea, MBGR, 5 Vidth 37' Rail Type himpaired Prot. Sys. 100	** Skew	2 None MBGR y. Width	None Wer) Unknow Tracks	None

DESCRIPTION - HYDRAULICS

Channel Natural canyon Navigable: Yes No X Pier/Abutment Protection (For 1)	Clearances: Vert			
RAFFIC INFORMATION	DECK	YEAR	UNDER	YEAR
verage Daily Traffic & Year :	16,000	1989	N	•••••
verage Dally Traffic (Future) :				-1
verage Daily Trucks (% OF ADT)			N	
ypass Detour Length	1 mile	, was not the	N	
hell Route:	No	graphics (1884)	No	
unctional Classification :	09 HS 20	Operating	N HS 33	3
	PPPPP			
CONDITION RATINGS: Deck N Su Channel & Channel Protection	perstructure Cul	7 vert N	Substructure Widenable	7 Yes
APPRAISAL RATINGS: Waterway Adequacy 9		Approach Roadway	Alignment	8
late of Revisions				والمراوات والمراوات والمواجعة والمواجعة والمواجعة والمواجعة والمواجعة والمواجعة والمواجعة والمواجعة والمواجعة

STRUCTURAL DATA AND HISTORY (Con't.)

Date of Revision: 1929, widened

1938, repaired and reconstructed

CONDITION OF STRUCTURE:

There is minor concrete cracking at both ends of the pier wall. Condition of the structure is good.

Henry Ma

HM:ms

cc: INagai (2)

County of Orange

ClibPDF - www.fastio.com

No. C-36817

p. 6.30.92

CIVIL

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY BRIDGE R	EPORT	Bridge No		55C - 121	
DS-M19 (REV. 1/89)		Location		a - FAS MOO	3 - CR
		Date of Inve			•
BREA CA		Boulevard, Route 57)	1.1 m	iles west	
CONDITION RATING:	· · ·	_			
Deck N Superstructure 7 Channel & Channel Protection 5	Substr.&Pipes Culvert N			Widenable?	No
CATEGORY AO	EPORT AMAGE THER FFICE				

CONDITION OF STRUCTURE:

There is a previous broken piece of concrete at the west end (downstream) of the pier.

Condition of the structure is fair.

REVISION:

Location: 12-Ora-FAS M003-CR

ADT: 16,000 (1988)

WORK RECOMMENDED:

None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

2 RC open end abutments, foundation unknown.

1 RC pier wall, foundation unknown.

Henry Ma

No. C-36817

HM:ms

INagai (2)

County of Orange (2)

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-05 M19 (REV. 1/74)

Bridge No	55C-121
	7-Ora-FAS MØØ3-CR Diet - Co - Rte - PM - City
Date of investigat	Ion April 23, 1987

Name BREA CANYON (Brea Blvd.,1.1 mile wes	st of Rte	APPRAISAL RATING:
Deck Superstructure Substr. & Pipes		•
Channel & Channel ProtectionRetaining Walls		
Widenable? Yes No X Conditional Action Required By County Yes No X		PRIORITY A - Immediate Action B - Early Scheduling C - Routine Maint. O - For Record Only

REVISION:

Condition Rating: Deck - N

CONDITION OF STRUCTURE:

Overall condition of the structure is good.

RECOMMENDED POSTING:

None

WORK RECOMMENDED:

None

HM: pht

cc: INagai (2)

Orange County (2)

Henry Ma

No. C-06317

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Bridge No	55C-121
. Leastles	7-Ora-FAS M003-CR (On Deck)
	(On Deck)
Date of Investigat	November 14, 1936
	1985

Name BREA CANYON (B)	cea Blvd., l.l mil	e west of R	<u>te. 57)</u>
CONDITION RATING:	•		APPRAISAL BATHIG:
Dock Superstructure	7 Substr. & Pipes _	7	Overall7
Channel & Channel Protection	5 Retaining Walls _	N	_
Widenable? Yes X No C C		B	PRIORITY Immediate Action Early Scheduling Routine Maint. For Becord Colv

WORK NOT DONE:

Previously recommended work to clean debris and drift from the creek has not been done.

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None

WORK RECOMMENDED:

Clean debris and drift out of the creek.

HM: pdh

INagai (2)

Orange County (2)

(1)

14032_

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-OS M19 (REV. 1/74)

Bridge No	55C-121					
	7-0re-FAS MOOS-CR					
Location	Diet - Co - Pho - Phi - City (On Deck)					
Date of Invest	igation July 13, 1983					

Nama	BREA CANYON (Bre	ea Blv	d l.l mile wes	st of R	te. 57)
	ION RATING:	· ·····	······································	***************	APPRAISAL RATING:
Deck	7 Superstructure	7	Substr. & Pipes	7	Overall7
	& Channel Protection				
Widenable	o? Yes X No C County equired by SieteXX :	Condition	No 🗀	B	PRIORITY - Immediate Action - Early Scheduling - Routine Maint For Record Only
COND	TION OF STRUCTU	RE:		-	

There is much debris wrapped around the center pier nose. Several fallen trees are upstream in the creek.

Otherwise, the condition of the structure is good.

RECOMMENDED POSTING:

None

RECOMMENDATION:

Clean the debris and drift out of the creek.

E. L. Neff C-28703

E.L. Neff

ELN:pdh

cc: DRHiggins (2) Orange County (2)



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-05 M19 (REV. 1/74)

Bridge No	55C-121	. ,						
-								
Location Diet - Co - Pie - Pie - City								



			Date	of investige	tionJi	11y 16,	1981
Name	ANTON (Dr	on Nov	levard,	1,1 mi.	west c	Boute	57)
CONDITION RATIN	G:					APPRAIS	BAL RATING:
Deck Su	nerstructure	7	Substr. & [{]	Pipes	7	Overall .	
Channel & Channel	Protection	5	Retaining \	Walls	×	 .	
Nidenable? Yes [Action Required by WORK DOOR:							
The previous	ly recess	bohno	Acte The	ears to	pave p	oon done)•
Condition of	STREET	% :					
The overall	eandition	of ti	be Struct	are is	good.		
RECORDINAD	POSTING:						
Yene.							

E. L. Neff C 25703

Ellied co: Deligine (2) Grange County (2)



STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Bridge No. 55C-121 BRIDGE REPORT DS-M58 (REV. 1/75) Other No. P.U.C. No. Location 07-Ora-FAS-MO03 Dist - Co - Rte - PM - City Date of Investigation May 2, 1980 Name BREA CANYON (Brea Blvd.-1.1 mi. W of Route 57) Lat. M330-56.3' Long. W1170-53.4' STRUCTURAL DATA AND HISTORY Year Built unknown By Orange County Contract No. Unknown Date of Revisions 1929-Widened, 1938 Repaired and Reconstructed Designed by: B.D. ____ Orange County _____ Plans Avail. @ 1938) State Two RC slab spans on RC pier and RC wing abutments Description: (5' ± AC and dirt cover) Spans 2 at 13.6' c/c Length 30.2' Skew 32° Lt Design LL original-unknown Ratings: Inventory HS 20/Assigned Operating HS 33/Assigned ermit PPPPP/Assigned **DESCRIPTION - ON STRUCTURE** Bridge Width (W) 18'dirt; 28'; 12'dirt(E) Total Width None Lanes 2 Tracks None Median None (0000) Vert. Clearance over deck ________ Unimpaired ______ Appr. Rdwy. Width ______ 28 * Wearing Surface AC (3.4) Deck Seal None Alignment Tangent between curves

DESCRIPTION - UNDER STRUCTURE

Roadway Section Sone

Clearances: Vert. Horiz.; Lt. Rt.

Jealances. Vert.

Lanes Tracks Pumpplant: None X See Br. No.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Bridge No. 55C-121 BRIDGE REPORT DS-M58A (REV 1/75) Date May 2, 1980 **DESCRIPTION - HYDRAULICS** Channel Fairly well defined with sand and rock bottom Clearances: Vert. N Horiz. N Navigable: Yes 🔲 No 🔀 MAINTENANCE Custodian Crange County Owner Orange County **ORIGINAL** ORIGINAL CONDITION RATING APPRAISAL 7 _____7____ Deck Overall 8 Superstructure Deck Geometry 7____ Vert. Substructure & Pipes Underclearances 5 Channel & Channel Protection Horiz. 💥 📜 N 9 Retaining Walls Safe Load Capacity Approach Rdwy. Alignment Waterway Adequacy 40____ ____7 **Estimated Remaining Life** Approach Rdwy, Alignment

Widenable? Yes 🗶 No 🗀 Conditional 🗀

Action Required by **Executor**: Yes X No

AVERAGE DAILY TRAFFIC - Road closed due to flood damage.

BYPASS DETOUR LENGTH - 5 mile

EMCROACHMENTS - Two-10" # pipes 10' and 15' east of the structure.

CONDITION OF STRUCTURE - There is erosion at the northwest, northeast, and southeast wingwalls. There is a discontinuity in the face of the south abutment.

LOAD CAPACITY - The ratings shown were assigned based on the know factors, the fact that there is 5' ± of earth over the structure and the condition of the structure.

RECOMMENDATIONS - Repair the erosion at the northwest, northeast and southeast wingwalls.

Original signed by

FRANK J. WALLISER

FJW:11

cc: DRHiggins

Orange County (2)

		•ċt	SI ROTOA	9 DNITAR	THE PURPLE	THAT CAUSES	NO THE TRUCK	SO.	0k.	T°00 L Nowber	• 0,
0 • 0	0.66-	0 * 5	1*3	0.6-	6*0	1.88	0.0	z	0 t	65*9	48U4
0.0	0.66-	0.8-	1.3	0.6-	6.0	4*98	0*0	2	o t	86.01	A340
040:	0.CE-	0.8-	e•t	0.6-	6*0	1.58	0.0	S	o t	19*9	AN I
HOHENT	DEAD LOAD	NEG PURP I	POS PURP TN3HON	MOMENT Neg Heso		OFT HOM CAP		IU T MAGE	14	RATING FACTOR	
e1et - 418		S OHIE CONST	SO IVPE VE		TOIM BUITAR B.Aio	POSTMILE.		YTNUOD G G C	_	CO 1	TSIQ To

IN THE REPORTED ULTIMATE MOMENT CAPACITY IS 0. IT WAS DETERMINED NOT TO BE CRITICAL

ddddd

TE DISTRIBUTED AS UNIFORMED LOAD (250 LBS/50 FT)

DESIGNED VS S SAVN BIGIO LEVHE STVB CYNAON MIDENING - MIRE LIFF

© ddddd = 1/8 0.02 5H = 00 0.02 5H = NNT

BESIGNED PATING

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	DIST 07	ROUTE CO RD	COUNTY S	TRU. NO 0121	POSTMILE	RATING 014.8	WIDTH-FT	STRU TYPE		e const	NOV. 2	1. 1979
	INFLU	ENCE LIN	NE FOR CRI	TICAL INV	ENTORY RAT	ING POINT	SPAN 2	10TH POINT	10			
	MEM NO	LEFT	•1	•2	,3	•4	.5	• 6	• 7	. 6.	.9	RIGHT
:	1	0.0	0.038	0.081	0.126	0.166	0.195	0.209	0.202	0.169	0.103	0.0

THE CRITICAL OPERATING RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

THE CRITICAL PURPLE RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

- 2 BREA CANYON WIDENING W/S+ FILL
- 3 DESIGNED AS 2 SPAN RIGID FRAME SLAB
- 4- LL DISTRIBUTED AS UNIFORMED LOAD (250 LBS/SQ FT)

POSTMILE RATING WIDTH-FT STRU TYPE TRIC ROUTE STRU. NO NOV. 20. 1979 CS 20 014.8 CO RD 55 C 0121 07 NES PURP DEAD LOAD SECONDARY POS PURP POS HS20 NES HS20 RATING ULT MOM CAP ULT MOM CAP MOMENT MOMENT MOMENT MOMENT MOMENT MOMENT FACTOR PT SPAN TOP IN COM BOT IN COM 17.9 59.5 0.0 745.0 12.0 0.0 0.0 0.0 INV 25.85 0.0 17.9 59.5 0.0 DPER 42.94 745.0 0.0 12.0 0.0 17.9 0.0 59.5 0.0 PURP 28.63 745.0 0.0 12.0 0.0

THE NUMBER OF AXLES ON THE TRUCK THAT CAUSES THE PURPLE RATING FACTOR IS 13. FC = 1.00 FY # 33.

IF THE REPORTED ULTIMATE MOMENT CAPACITY IS 0, IT WAS DETERMINED NOT TO BE CRITICAL

2 BREA CANYON - ORIG PORTION W/5+ FILL

3 DESIGNED AS SINGLE SPAN RIGIO FRAME SLAB - ADDED

SUPPORT AT CENTER - ASSUMED SLAB HAVE CRACKED AND

5 ACTING AS 2 SIMPLE SPAN - LL AS UNIFORMED LOAD

PPPP

HIGH FILL

YR ORIG CONST

HM 11/26/79 ASSIGNED RATING INV = HS 20.0 = HS 33.0 R/F = PPPPP

DIST 07	ROUTE CO RO		TRU. NO 0121	POSTMILE .	RATING 014.8		STRU TYPE	YR OR	O CONST	NOV. Z	20. 1979
INFL	UENCE LIN	E FOR CRI	TICAL IN	VENTORY RAT	ING POIN	T SPAN 1	10TH POINT	5			
MEM NO	LEFT	•1	•5	•3	•4	•5	.6	•7	.8	.9	RIGHT
1	0.0	0.575	1.150		2.300	2.875	2.300	1.725	1-150	0.575	0 • 0

THE CRITICAL OPERATING RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

THE CRITICAL PURPLE RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

- 2 BREA CANYON ORIG PORTION W/S+ FILL
- 3 DESIGNED AS SINGLE SPAN RIGID FRAME SLAB ADDED
- 4 SUPPORT AT CENTER ASSUMED SLAB HAVE CRACKED AND
- 5 ACTING AS 2 SIMPLE SPAN LL AS UNIFORMED LOAD

PPPP

OLD 55-134 Bridge No. NEW 55C-121

Sheet 1

SUPPLEMENTARY BRIDGE REPORT

A comme

OFFICE REPORT

Oct. 1, 1973

MANGARAN.

OLD 07-Ora-57 NEW 07-Ora-CoRd

Name BREA CANYON

OLD 4.35 Niles N. of Jct. Rte. 72
LocationNEW .43 M. N. of Central Ave on Brea Blvd

Dist.-Co.-Rte.

Post Mile____

As a result of action taken by the California Highway Commission on August 22, 1973, Resolution R 2015, this structure was relinquished to the County of Orange.

RECOMMENDATIONS:

Remove from the bridge list, drop from the records, and assign Bridge No. 55C-121.

J. M. Borik

R I Portrell

By R. F. Prodochl

JMB:RFP:bc

ec: Dist. 07

Bridge No.

Sheet 1

SUPPLEMENTARY BRIDGE REPORT

Date of Investigation C	Oct.	6,	1970
-------------------------	------	----	------

Name BREA CANYON 07-Ora-57
Dist.-Co.-Rte.

Location 4.35 Miles North of Jct. Rte. 72 Post Mile 26.75

CONDITION OF STRUCTURE:

The structure is in good condition throughout.

RECOMMENDATIONS:

None.

Next Investigation: October 1971

P.E. Nelson

PEN:mb cc:Dist. 07

> Investigated 19/20/12 By BB Changes Noted NR EQ Rev. Good Stoh

Investigated 9/3/22 By WRB
Changes Noved SNO Chy

SUPPLEMENTARY BRIDGE REPORT

Date of Investigation August 27, 1965

BREA CANYON

VII-0ra-57

Name....

Dist.-Co. Rt.

Location 4.35 Miles North of Jct. with Rte. 72 Post Mile 26.75

WORK DONE:

The north bound traffic lane over the bridge has been covered with approximately 1 of PMS.

CONDITION OF STRUCTURE:

The channel on the east side of the bridge is heavily overgrown with bushes and saplings.

Water has ponded under the east half of structure in the south

Otherwise, the structure is in good condition.

CONDITION OF PAINT:

bulcolless of

The screw jacks at the center supplementary bent are completely covered with rust.

RECOMMENDATIONS:

- (1) Remove the bushes and saplings at the east entrance as necessary to keep them from obstructing the flow of water.
- (2) Grade channel to prevent water from ponding under the structure.
- (3) Wire brush screw jacks to remove all rust, then apply two coats of red lead paint and one coat of aluminum.

Estimated Cost: \$250.00

Next Investigation: October, 1966

w.o. 532 (611) COST \$ 59.04 Itams #1 & 3

D. B. Jennings by: Tom Brown Jon Brown

TB:mb

cc: Dist. VII Hdq. Maint. (Anca)

Investigated 194/66 By F.JS Changes Ho and Preva rec. work
partly done, Rec So Dam 2 previ reci _

Investigated 9-7-67 By PAB Changes Noted Rec: Do item 2 of report dated 8-27-65.

Investigated 10-24-68 By a RR Changes Noted Watch cross and NI De pole @ All. Winger.

Investigated/0-16-69By WWJ

Changes Noted PTET LINES dong east side of Loadway. N.E.

Ben the state of the second section of the section

- Bloom, instant in vertically (%)
4.4 Replicability of the expense.

Park that I have more than

Modernia 3 to June 12 to 22 (1997), https://doi.org/10.1003/19.1003.
 Modernia 3 to 2004 (1997).

Contract : water, Laurent grad

SUPPLEMENTARY BRIDGE REPORT

	Date of Investigation August 8, 1960
Name BREA CANYON	VII-Ora-19-A
4.35 Location 4.4 Miles Northeast o	Dist.—Co.—Rt.—Sec. of Jct. with Rte.72 Sta. 15+48+
Refer to the original reporsequent supplementary repor	t dated April 22, 1938, and to sub-
CONDITION OF STRUCTURE:	
The structure appears to be	e in good condition throughout.
In connection with the resu this section, a lift of 3" on the roadway over the bri	rfacing of the roadway through of P.M.S. material has been placed .dge.
RECOMMENDATIONS:	
None	
Next Investigat	ion: August 1961
	Wm. M. Crawford
WMC:cm cc:Dist. VII	
Hdq. Maint.	Investigated 8/21/61 By ARR
	Changes Noted None
	Investigated 8/17/12By ARR
	Changes Noted have
	Investigated 8/8/63 By BWC
	Changes Noted None
	Investigated 10/7/64 By MCH Changes Noted None
	Changes Noised home
	Citaria

SUPPLEMENTARY BRIDGE REPORT

Date of Investigation December 22, 1955

BREA CANYON Name

VII-Ora-19-A

Location 4.4 Miles Northeast of Junction with Route 2. Sta. 15+48+

Refer to original report dated April 1938 and to subsequent supplementary reports.

WORK DONE:

The work recommended in the previous report has not been done, but in view of the condition of the channel as described below, the previous recommendations should be rescinded.

CONDITION OF STRUCTURE:

Except as noted in this report, the structure appears to be in good condition throughout and about the same as when last inspected.

The channel is heavily overgrown with high tules and light saplings both on and off of the right of way, so that the clearing of the right of way only would serve no useful purpose.

In connection with the resurfacing of the roadway through this section, a lift of from 1 1/2" to 2 1/2"+ of asphaltic material has been placed on the deck.

RECOMMENDATIONS:

None.

Next Inspection: December 1956.

WEB:mh cc: Dist VII Maint. Dept. W. E. Bastues

WEBastnes

Investigated /2-/8-56by ARR

Next Investigation 12-57

Changes Noted _ None

Investigated 8-2/-59By WHH

noted up & downstream from Structure.

SUPPLEMENTARY BRIDGE REPORT

Date of Investigation December 6, 1954

Name BREA CANYON

VII-Ora-19-A

Location 4.4 Miles Northeast of Jct. with Rte. 2 Sta. 15+48+Co.-Rt.-Sec.

Refer to original report dated April 1938, and to subsequent supplementary reports.

CONDITION OF STRUCTURE:

Upstream from the structure the channel is heavily covered with tule and sapplings.

The structure is apparently in good condition and about the same as when last inspected.

RECOMMENDATIONS:

1. Remove the tule and saplings which are growing upstream from the structure and within the right of way.

Estimated Cost: \$75.00

Next Inspection: December 1955.

WEB:mh

cc: Dist VII

Maint. Dept.

W. E. Bastues

WE Bastura

1

Bridge No.	134	
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35C-/2/

SUPPLEMENTARY BRIDGE	KEPORT	nvestigation	I Jxe%
	a	s Noted	

Date of Investigation January 17, 1951

Name BREA CANYON

VII-Ora-19-A Dist.-Co.-Rt.-Sec.

Location 4.4 miles north of Junction with Rte.2. Sta. 15+48

Refer to original report dated April, 1938, and to subsequent supplementary reports.

CONDITION OF STRUCTURE:

There is a considerable accumulation of weed growth within the right of way at the upstream face of the structure.

The structure is otherwise in good condition.

RECOMMENDATIONS:

Remove as much of the above described weed growth at the upstream face and within the right of way & manaj she practicable.

Next investigation: January, 1952.

HKM: jc

Dist. VII Maint. Dept. Investigated 1-17-52 ByMWG

Next Investigation 1-53
Changes Noted Work Previously
Recommended Properly Done

Investigated 12-17-52By JPA

Next Investigation 12-53

Changes Noted NONE

Envestigated 12/14/53 by TMF	
Next Investigation 12-54	SUPPLEMENTARY SRIDGE
manger Noted Nene	

Date of Investigation during My 1991 1991

Name BRan CANYON

7-20-39 -JIV Dist. Ca Ru Sa.

Location 4.1 wiles north of Junetion vica Fulls. See. 13-45

Refer to original rejute dates april, 1976, and to subsequenc supplements of remoters.

CONTITUN OF ETPHOTOP:

There is a countidered a countilation of rood granta within the might of way of the upsteeme flace of the Structure.

Tae structure is otherwise in good condition.

RECORDERINGS:

Remove as auch of the shove accordised vect prowin ed the upstream face and within the right of way akamas. be ..ldrolasetc

Next investigation: Jammary, 1950.

01.11.9

er: Dist. VII

Malat. Depe.

Investigated 17752 Bymb C

Next Investigation 1-53

Charges Noted with five vice of

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SUPPLEMENTARY BRIDGE REPORT

		•	
		Date of Investigation	August 17, 1948
Name	BREA CANYON	······¥I	I-0ra-19-A
	4.4 Miles ME of Jct. with		
mentary 1	Refer to original report	dated April 1938, and t	o subsequent supple-
CONDITION	of Channel:		
	The channel is well defin-	ed.	•
WIDENING:	•		
	Widening is feasible on e	ither side.	
DETOUR:			r.
	A detour is fessible on the	he east side at an estir	mated cost of \$3.500.
SALVABLE	Materials:		
	None.		
CONDITION	OF STRUCTURE:		
	The structure is in good of	eondition	
RECOMMEND.			
1	Hone.		
	NODE .		
į		Mext Investigat	ion: August 1949.
		OMOINAL SIGNED BY M. W. GEWERTZ	<u>.</u>
		M. V. GEVERTZ	
MWG:1h			43.49 By WOL
cc: Dist.	. VII		
	t. Dept.	Next Investiga	None p
		Changes Noted	von e

Date of Investigation June 29, 1944

SUPPLEMENTARY BRIDGE REPORT

Name BREA CANYON

VII-Ora-19-A

Dist.-Co.-Rt.-Sec.

Location 4.4 Miles N.E. of Junction with Route 2. Sta. 15+48+

Refer to original report dated April, 1938, and to subsequent supplementary reports.

WORK DONE:

The work recommended in the previous report has been properly done.

CONDITION OF STRUCTURE:

Except as noted above, the condition of the structure is about the same as when last inspected.

RECOMMENDATIONS:

None.

Next Investigation: June, 1945.

RAW:t

cc: District VII (2)
Maintenance Dept.

Investigated 4/23/45 By RES

Next Investigation 4-46

Changes Noted None

Investigated 5-16-46 By Raw

Next Investigation 4-47

Changes Noted None

Investigated 6-19-47 By AJS

Next Investigation 648

Changes Noted None

Sheet 1

SUPPLEMENTARY BRIDGE REPORT

Date of Investigation June 3, 1943

Name BREA CANYON

VII-Ora-19-A

Dist.-Co.-Rt.-Sec.

55C-121

Location 4.4 miles N.E. of Jct. with Rte. 2. Sta. 15+48 +

Refer to original report dated April 1938 and to subsequent supplementary reports.

CONDITION OF STRUCTURE:-

Some of the steel screw jacks of the supplementary bent are loose.

The structure is in good condition and is otherwise about the same as when last inspected.

RECOMMEN DATIONS:-

Tighten the steel screw jacks at the center supplementary bent as required to make them uniformly snug.

> Finance: General Maintenance

Due 4-24-44 @ #28 57-H-1.

Next Investigation:)June 1944

Selle R.A.

CC: District VII (2) Maintenance Dept.

SEE SUPPLEMENTARY REPORT OF JUN 29 1944

Sheet 1

SUPPLEMENTARY BRIDGE REPORT

Date of Investigation Oct. 17, 1938.

Name...

BREA CANYON

VII-Ora-19-A

Dist.-Co.-Rt.-Sec.

Location 4.3 miles N.E. of junction with route 2.

Refer to original report dated April 22, 1938.

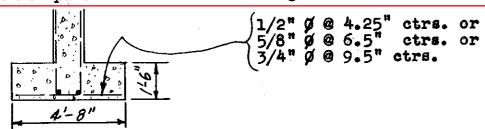
REMARKS:-

When excavating for the footings it was found that the material upon which it is proposed to support the bridge consists of fairly fine sand mixed with some rotary mud. The latter material apparently was deposited in the channel from nearby eil well workings. The material is inundated under normal conditions and it is necessary to pump water from the excavations in order to carry on the work.

When the material is inundated and is agitated due to excavation operations it is of the nature of quicksand but it is considered that it will safely support the structure when confined and if a small amount of stabilization work is done and if the spread of the footings is increased. The structure being widened rests on similar material and has spread footings which are at less depth than those which it is proposed to place in the widened portion.

CHANGES:-

1. Due to the nature of the foundation material the following changes in the pier and abutment footings will be made:



- 2. In this foundation material it is considered advisable to decrease the toe pressure on the wingwall footings hence the toes of the wingwall footings will be extended 1 ft. and adequately reinforced.
- 3. Instead of widening the structure to 37° to right of centerline the structure proper will be constructed up to the R/W line 30° to right of centerline. In order to catch the toe of the fill the height of the side wall will be increased from 16.5" to 3'-0" and it will be adequately reinforced.

CC: District VII (2)
Maintenance Dept.
Mr. Wagner

SEE SUPPLEMENTARY REPORT OF APR 14 1939 FOLLOWING.

60613A 8-38 10M. EST. 4608 STATE PRINTING OFFICE BRIDGE No. 52-124

SHEET 2
DATE 10/17/38

FINANCING:-

It is believed that the additional cost of the footings will be offset all or in part by the decreased cost due to decreasing the width of the proposed structure and that the work can be completed within the present allotments.

If the final cost of the work exceeds the allotment it will probably be best to finance the difference from the unexpended balance of Bridge Betterments- Secondaries south-89-90 biennium.

Final Report filed in Maintenance Dept

FRED BARNES

By R. a. Wagner_

DAY LABOR WORK ORDER NO. DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS GTILL? MLY 25, 1996 VII- 014-19-A 55 C-131 S. Y. Cortelyon YOU ARE HEREBY AUTHORIZED TO HAVE THE WORK DESCRIBED BELOW DONE BY DAY SUM IS HEREBY ALLOTTED TO BE EXPENDED FOR THE PURPOSE HEREIN SPECIF LOCATION AND DESCRIPTION OF WORK Road VII-grant 9-4 At Orea Company Mridge No. 55-134 Extend and repair bridge. (per detail within) Requested for day labor because of the small amount of work involved. All work to be done in accordance with the Standard Specifications dated January, 1935. ΛX THIS AUTHORIZATION . PREVIOUS AUTHORIZATIONS TOTAL AUTHORIZATIONS TO DATE 100,00,00 ~ H FURCELL Sta & Ununway Engineer PAYABLE FROM STATE HIGHWAY FUND ORIGINAL SIGNED BY G. T. MCCCY By Ashistant State Highway Logineer ALLOTMENT APPROVED: BALANCE AVAILABLE EARL LEE KELLY Director of Public Works AMOUNT OF THIS WORK ORDER By Grand State assistant 1,500.00 BALANCE FORM 102. EST. 2008. 51771 11-27 3M JUL 30 1998

BRIDGE REPORT

Date of Investigation April 22, 1938

Location 4.42 miles N.E. of Jct. with Rte. 2.72 Sta. 15 Description RC slab span with RC wing abutments and under 5'+ fill. Approximate skew 32°15 2-/34'/c. Spans. 1-8.27.2' clr. (23' normal clr.). Total length 30.2' Roadway width 40' between shoulder berms. Sidewalks I Alignment Good. On short tang. btw. two curves. Final for some time Width Good. Standard of design Orange County Standards. Waterway Sufficient. Sandy channel. Velocity fairly his Clear height practically uniform at 8.4'dwnstr. and 6.8' ups Vertical clearance under (See History Widened 1929 Date built Old. By Orange County. Contract No Designed by Orange County. Plans Tracing of widened portion built in 1939 from sheet 1 of 21 sheets, in Bridge Department Files. Drawing Number M84 REMARKS	57
Location RC slab span with RC wing abutments and under 5'+ fill. Approximate skew 32°15' 2-/34'/2. Spans 2-87.2' clr. (23' normal clr.). Total length 30.2' Roadway width 40' between shoulder berms. Sidewalks 1 Alignment Good. On short tang. btw. two curves. Final for some time Width Good. Standard of design Orange County Standards. Waterway Sufficient. Sandy channel. Velocity fairly his Clear height practically uniform at 8.4'dwnstr. and 6.8' ups Vertical clearance under (See History Widened 1929 Date built Old. By Orange County. Contract No Designed by Orange County. Plans Tracing of widened portion built in 1939 from sheet 1 of 21 sheets, in Bridge Department Files. Drawing Number M84 REMARKS	- 1.6 - A -CoRtSec.
Description RC slab span with RC wing abutments and under 5'+ fill. Approximate skew 32°15' 2-/34'/2. Spans 1 9 27.2' clr. (23' normal clr.). Total length 30.2' Roadway width 40' between shoulder berms. Sidewalks I Alignment Good. On short tang. btw. two curves. Final for some time Width Good. Standard of design Orange County Standards. Waterway Sufficient. Sandy channel. Velocity fairly his Clear height practically uniform at 8.4'dwnstr. and 6.8' ups Vertical clearance under (See History Widened 1929 Date built Old. By Orange County. Contract No Designed by Orange County. Plans Tracing of widened portion built in 1929 from sheet 1 of 21 sheets, in Bridge Department Files. Drawing Number M84 REMARKS	48+
Approximate skew 32°15 Spans 1-8-27.2' clr. (23' normal clr.). Total length 30.2' Roadway width 40' between shoulder berms. Sidewalks I Alignment Good. On short tang. btw. two curves. Final for some time Width Good. Standard of design Orange County Standards. Waterway Sufficient. Sandy channel. Velocity fairly his Clear height practically uniform at 8.4'dwnstr. and 6.8' ups Vertical clearance under (See History Widened 1929 Date built Old. By Orange County. Contract No. ——— Designed by Orange County. Plans Tracing of widened portion built in 1929 from sheet 1 of 21 sheets, in Bridge Department Files. Drawing Number M84	earth
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Roadway width 40' between shoulder berms. Sidewalks I Alignment Good. On short tang. btw. two curves. Final for some times width Good. Standard of design Orange County Standards. Waterway Sufficient. Sandy channel. Velocity fairly his Clear height practically uniform at 8.4'dwnstr. and 6.8' ups Vertical clearance under (See History Widened 1929 Date built Old. By Orange County. Contract No. ———————————————————————————————————	Lt.
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Width Good. Standard of design Orange County Standards. Waterway Sufficient Sandy channel Velocity fairly his Clear height practically uniform at 8.4'dwnstr. and 6.8' ups Vertical clearance under (See History Widened 1929 Date built Old. By Orange County. Contract No. ——Designed by Orange County. Plans Tracing of widened portion built in 1939 from sheet 1 of 21 sheets, in Bridge Department Files. Drawing Number M84	one.
Standard of design Orange County Standards. Waterway Sufficient Sandy channel Velocity fairly his Clear height practically uniform at 8.4'dwnstr and 6.8' upstraid clearance under (See History Widened 1929 Date built Old By Orange County Contract No Designed by Orange County Plans Tracing of widened portion built in 1989 from sheet 1 of 21 sheets in Bridge Department Files. Drawing Number M84	
Waterway Sufficient Sandy channel. Velocity fairly his Clear height practically uniform at 8.4'dwnstr. and 6.8' upson Vertical clearance ————————————————————————————————————	
Clear height practically uniform at 8.4'dwnstr. and 6.8' ups Vertical clearance — under — (See History Widened 1929 Date built Old. By Orange County. Contract No Designed by Orange County. Plans Tracing of widened portion built in 1929 from sheet 1 of 21 sheets, in Bridge Department Files. Drawing Number M84 REMARKS	
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Plans Tracing of widened portion built in 1989 from sheet 1 of 21 sheets, in Bridge Department Files. Drawing Number M84	
of 21 sheets, in Bridge Department Files. Drawing Number M84	
Remarks	6
Remarks	0-2.
NO EXECUTAN	ENTS
CC: District VII. (2). Maintenance Dept. Mr. 100 Wagner. Wagner. Wagner. Mr. 100 Wagner. Mr. 100 Wagner. Mr. 100 Wagner.	owing.

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Bridge No. 55-154

SHEET -2
DATE 4-22-38

PRESENT CONDITION OF STRUCTURE (Flood damage of Mar. 1938):-

The flood of Mar. 1938 caused undermining of the footing of the original (east) portion of the structure at the upstream end causing the upstream side of the original portion to settle about 2'+. This settlement caused the original east portion to pull out of the dowels and away from the 1929 widened portion for distances of about 2" at the south end and about 12" at the north end.

The north abutment of the original portion is badly shattered and part of the lower portion was displaced about 8" towards the channel during settlement.

The south abutment of the original portion has two vertical cracks as wide as 4" at the top.

There are several cracks on the bottom of the original slab due to settlement. These are both approximately parallel to and across the main reinforcing steel.

There are a few hair cracks in the bottom of the slab of the 1929 widened portion. This portion of the bridge is otherwise intact.

STRESS ANALYSIS:-

A complete stress analysis has not been made but the structure is unsafe for the loads caused by the roadway fill and traffic.

SUMMARY:-

The structure will be safe for full legal loads upon completion of the recommended repairs and strengthening.

The remaining economic service life, structurally, is about 40 years for the 1929 widened portion.

RECOMMENDATIONS:-

The following work should be done as soon as possible as the work is considered to be urgently needed:

- (1). Replace the failed original portion with a new RC slab structure on a central RC wall pier and RC wing abutments.
- (2). Strengthened the 1929 portion by extending the central RC wall. All work is to done in accordance with the attached print marked Drawing No. DL-840-243

Estimated cost, about---\$4,500. Finance: Replacements.

Next Inspection: Aug. 1938

Free Burnes
By: RAW/ME

SEE SUPPLEMENTARY REPORT OF

Bridge No. 55-134
Brea Cañon
VII - Om - 19-A

Revised SUMMARY OF QUANTITIES FOR REPAIRS

Class "A" Concrete	112	CY.
Reinforcing Steel	10580	Lbs.
Structural Steel Bars	720	Lbs.
Bolts, Nuts and Washers	110	Lbs.

Submitted with Report of APR 12 1938.

W.P.5-38

Bridge No. 55-134 Brea Cañon VIII- Ora-19-A

SUMMARY OF QUANTITIES FOR REPAIRS

Class A Concrete 100 C.Y.

Reinforcing Steel 9670 Lbs.

Structural Steel Bars 720 Lbs.

Bolts, Nuts, and Washers 110 Lbs.

 Computed by W. P. Date 5-5-1-38 Checked by____

Bridge No. 55-134 Brea Carron VII - Ora - 19 - A

Quantities for Repairs

0 0 5 3

Concrete

Cross Section Area of New Portion

 $Slab = 1.21 \times 25.5$ Abut, Walk= 1,25 x 14 x2 CenterWall= 1.00 × 14 Footings = 1.00 x 3.00 x 3

Average Length of New Portion 25- 8.58+11.33 CSC 57°45' = 17.7 Ft.

Cross Section Area of Wing Wall

= .83 × 10 (Average) Wall Footing = 1.00x3.00 Total

Volumes

- 1.575 Ft. Main Portion= 89×17.7

272 Wings = 11.3 × 12×2

New Cent. Wall= 14 X1 X 41.6 V Ftg = 3 X1 X 41.6 = 583

66 $= 1.5 \times 10 \times 11 \times 4$ Struts

New "Curbs" = 1.38X1X 63 Total

Submitted with Report of APR 12 1938 100 C.K.

see Revised + 125/38
See Sheet 1/25/38

Calc. by		. ,		ea Carlon-	
Chkd. by	Date		tem: REINI	FORCING STEEL	
ITEM	MARK SIZE	NO.	LENGTH	TOTAL LENGT	Z " O
New Portion	 	i		2	8
-	2"	45			1000
Slab			1		1350
	2	13	17'	221	
	رو رم	h 30	155		
Abutments	4				512
,	2	26	205	534	
		32	1		
		きん	47	544	
Center Wall	'	18	155	279	
		i			
	V	KU	18	360	
Footings		30	3	90	
	-				
Curbs	V	4 63	31	124	
Wing Walls	- V	52	15	780	-
		48	10	480	
Footing		16	3	4-8	
New Contex Wall					
Wall	-	82	15	1230	
	ļ	55 20		55 820	
	V	20	41	820	
Footing		28	3	84	
•	2"		2.2		101
Struts	.	8	23	220	184
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	 		1038	100	1, 6
		NOR	12 1938	12/16	120
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			ZVAL	6310	2046
	WT. PER	ENGT:	e	.86	2.07
	TOTAL V	•	-	5430	4 240
	TOTAL W		***	9 0	70#

ClibPDF--www.fastio.com

Computed by W.F. Dete 5/5/1038
Checked by Date 19

Bridge No. 55-134 Brea Carron VIII - Ora - 19-A

Quantities for Repairs

<u> 3</u>

Structural Steel Bars 40 Bars 6x7 x 10"

$$= 714 + 720 + 72$$

Bolts, Nuts, and Washers

Submitted with Report of APR 12 1938

Computed	by W	Par	5-25	£38
Checked	by	Dat	9	19

Bridge No. 55-134 Brea carron VII - ora - 19-A

Revised Quantities for repairs

0050

Concrete

North Wingwall

$$\frac{(13\times1.24)+(16.5\times1.35)}{2}\times12$$

South Winguall

Submitted with Report of APR 12 1938

Calc. by Date 3/27/21 25: 35=131 Item: REINFORCING STEEL Contract No. Chkd. by MARK LENGTH North Wingwall 36 South Wingwall STATE OF CAL Balance of Structure = same as 5/5/38 = 5002 Submitted with Report of APR 12 1938 TOTAL LENGTHS 1.52 2.07 .86 WT. PER FOOT 250 5600 TOTAL WT. PER SIZE TOTAL WT. FOR SHEET NOTE.—Original to Bridge Department. Carbon copy retained by Resident Engineer.

ClibPDF - www.fastio.com

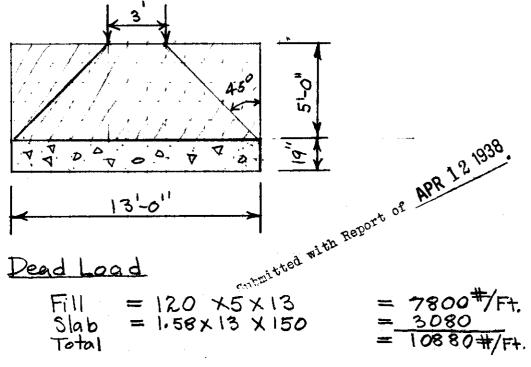
Computed by W.P. Date 4301038 Ohecked by Date 19

Bridge No. 55-134 Brea Cañon VIII-Ora-19-A

REPAIRS and STRENGTHENING

0 of 3

Portion Built in 1929
Slab Reaction on 14' Span



Reaction on 13' length of Center Wall

Live Load =
$$22 \times 12700$$
 = 32000
Total = $184,000$ #

Computed by W.P. Date 52 1938

Bridge No. 55-134 Brea Cañon VIII - Ora - 19-A

REPAIRS and STRENGTHENING

20+ 3

Portion Built in 1929

Design of Center Wall

With 12" Hall, Cane, Stress 14200

99 #/12

12" Wall with Light Steel Amply Safe

New Portion

Total Load per square foot = 14200 #

Design for IFt. Wide Strip of Slab

Span - Center to center Moment = 1020 x (14)2

= \4['] =25000 Ft

fc = 1000 +/1 =; fo = 18000; n=10

= 1.46 In2

Use 142" Slab, 13" To Steel, 8" 11 Bars @42"

-ClibPDF--www.fastio.com

Computed by W.P. Date 5-41938
Checked by Date 10

Bridge No. 55-134 Brea Canon VII - Ora - 19-A

REPAIRS and STRENGTHENING

3 of 3

New Portion

Center Wall Same as for 1929 Portion

Abutment

Subjected to same loads as 1929 portion - hence use same design.

Wing Walls

Use same as 1929 Portion. See Revised sheet dated 5/24/38

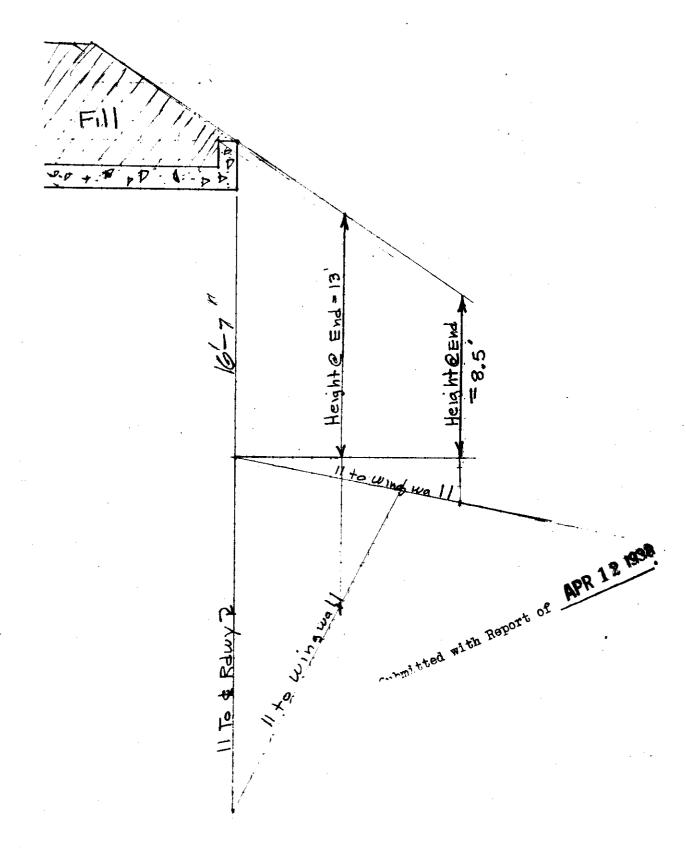
Abutments - I' Wide Strip

ClibPDF - www.fastio.com

Checked by Date 19

Bridge No. 55-134 Brea Cañon VII - Ora - 19-A

REVISED WINGWALL DESIGN



	S5C-121
Bridge	No. 55-151
	Chast

Name BREA CANYON Location VII-Ora-19-A

Summary of Construction, Maintenance and Alteration Work

CONT. OR W. O. No.	DATE	DESCRIPTION	W.O. AMOUNT	FINAL COST
		Estimated cost including widening @ \$4.00	÷	6,600
		Repair flood damage and strengthen.		
07XX 19 87-J-1	7-25-38	Repairs (See following)	\$1500	
57-7H/-B	1957	Repairs (See following) - Old portion rebuilt after 1938 flood & new portion strangement.		8 .94
532(611)	12-1-66	work as recommended in Bridge Report detail 1-17-51 PM Oft, Lated 8-27-65		8.94 \$59.04
}				
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			1	