# Bridge Inspection Records Information System

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State of California
Department of Transportation

Division of Maintenance Structures Maintenance & Investigations



# DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

: 55C0123 Bridge Number

Facility Carried: BREA BOULEVARD

: 0.8 MI N CENTRAL AVE Location

City

Inspection Date : 05-JUN-01

Inspection Type

Routine Group A Underwater Special Other Bridge Inspection Report X

# Name : BREA CANYON CHANNEL

### CONSTRUCTION INFORMATION

Year Built : 1939 Year Widened : N/A Length (m) : 28

Skew (degrees): 60 No. of Joints : No. of Hinges: 0

Description of Structure : Simply supported 3-span CIP/RC T-beam (5 each) with RC pier walls and with RC

open end diaphragm abutments, all supported upon concrete piles.

Span Configuration: (W) 3 @ 9.1 m (E) c/c

### LOAD CAPACITY AND RATINGS

Design Live Load : OTHER OR UNKNOWN

Calculation Method : LOAD FACTOR metric tons Inventory Rating: 30.8 Calculation Method : LOAD FACTOR metric tons Operating Rating: 51.7

Permit Rating : PPPPP

Type 3S2 N/A english tons Type 3-3 N/A english tons : Type 3 N/A english tons Posting Load

# DESCRIPTION ON STRUCTURE

Bridge width : (S) 0.3 m br, 0.2 m cu, 2 @ 4.6 m, 0.2 m cu, 0.3 m br (N)

No. of Lanes: 2 Net Width: 9.10 m Total Width: 10.1 Rail Code : 0000

Rail Description : Concrete Baluster

Unimpaired Min. Vertical Clearance :

### DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal, RC rectangular through the site.

# REVISIONS

The abutments and the pier have been retrofitted seismically. The columns have been replaced with a pier wall.

# CONDITION OF STRUCTURE

The structure is in good condition.

### MISCELLANEOUS

	T LEVEL INSPECTION RATINGS	_	. mana a manakan		Qty in eac	h Conditi	on State	
F# Ele No	em Element Description	Env	Total Units Quantity	St. 1	St. 2	St. 3	St. 4	St. 5
01 13	Concrete Deck - Unprotected w/	2	250 sq.m.	250	0	0	0	0
01 110	AC Overlay Reinforced Conc Open Girder/Beam	2	140 m.	140	0	0	0	0
01 210	Reinforced Conc Pier Wall	2	40 m.	40	0	0	0	
01 215	Reinforced Conc Abutment	2	40 m.	40	0 -	ō	0	C
01 227	Reinforced Conc Submerged Pile	2	1 ea.	1	0	0	0	
01 339		2	74 m.	74	0	0	0	

### - NONE WORK RECOMMENDATIONS

Printed on : 08-JUN-2001 10:21:43 AM

Page 2 of 3

SMS12001 AAAC

Bridge No.: 55C0123 Location: 0.8 MI N CENTRAL AVE

Inspection Date: 05-JUN-01

Inspected By : M. Ogata

CC : TMRut

Orange County

Printed on : 08-JUN-2001 10:21:43 AM

# Bridge No.: 55C0123 Location: 0.8 MI N CENTRAL AVE

Inspection Date: 05-JUN-01

# STRUCTURE INVENTORY AND APPRAISAL REPORT

	STRUCTURE INVENIORI	MID AFFRAISAL	REPORT
	**************************************	•	**************************************
	on the same of the		STATUS = FUNCTIONALLY OBSOLETE
			HEALTH INDEX = 100
	INVENTORY ROUTE (ON/UNDER) - ON 1 40 0M003N		********** CLASSIFICATION ********** CODE
	HIGHWAY AGENCY DISTRICT 12		NBIS BRIDGE LENGTH - YES Y
(3)	COUNTY CODE 059 (4) PLACE CODE 00000	(104)	HIGHWAY SYSTEM - NOT ON NHS
(6)	FEATURE INTERSECTED - BREA CANYON CHANNEL		PURISHTONIAL CLACK VITTOR
(7)	FACILITY CARRIED - BREA BOULEVARD		DEEDWOOD WIGHING NO. OF THE PROPERTY OF THE PR
(9)	LOCATION - 0.8 MI N CENTRAL AVE		DADALLEY OFFICERED AND ALL THE PARTY OF THE
(11)	MILEPOINT/KILOMETERPOINT 0		
(12)	BASE HIGHWAY NETWORK - NOT ON NET 0		DIRECTION OF TRAFFIC - 2 WAY 2
	LRS INVENTORY ROUTE & SUBROUTE		TEMPORARY STRUCTURE -
	LATITUDE 33 DEG 56 MIN 27 SEC	(105)	FEDERAL LANDS HIGHWAY - NOT APPLICABLE 0
	LONGITUDE 117 DEG 53 MIN 16 SEC		DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	a duado &	(20)	TOLL - ON FREE ROAD 3
	BORDER BRIDGS STRIE CODE	(21)	MAINTAIN - COUNTY HIGHWAY AGENCY 2
(99)	BORDER BRIDGE STRUCTURE NUMBER	(22)	OWNER - COUNTY HIGHWAY AGENCY 2
	********* STRUCTURE TYPE AND MATERIAL ********	(37)	HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5
(43)	STRUCTURE TYPE MAIN: MATERIAL - CONCRETE		
(23)	TYPE - STRINGER/MULTI-BEAM OR GDR CODE 1 02		*************** CONDITION ************************************
		(58)	DECK 7
(44)	STRUCTURE TYPE APPR: MATERIAL - TYPE - CODE	(59)	SUPERSTRUCTURE 7
		(60)	SUBSTRUCTURE 7
	Political and Particular Particul		CHANNEL & CHANNEL PROTECTION 8
	NUMBER OF AFFROACH SPANS	•	CULVERTS
(107)	DECK STRUCTURE TYPE CIP CONCRETE CODE 1	(02)	COLUMNIA
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:		******* LOAD RATING AND POSTING ******* CODE
A)	TYPE OF WEARING SURFACE - BITUMINOUS CODE 6	(31)	DESIGN LOAD - OTHER OR UNKNOWN 0
в)	TYPE OF MEMBRANE - NONE CODE 0		
	TYPE OF DECK PROTECTION - NONE CODE 0		
		•	OPERATING RATING - 51.7
	************ AGE AND SERVICE ***********	(65)	INVENTORY RATING METHOD - LOAD FACTOR 1
(27)	YEAR BUILT 1939		INVENTORY RATING - 30.8
(106)	YEAR RECONSTRUCTED 0000	(70)	BRIDGE POSTING - Equal to or above legal loads 5
(42)	TYPE OF SERVICE: ON - HIGHWAY 1	(41)	STRUCTURE OPEN, POSTED OR CLOSED - A
	UNDER - WATERWAY 5		DESCRIPTION - OPEN, NO RESTRICTION
(28)	LANES: ON STRUCTURE 02 UNDER STRUCTURE		
(29)	AVERAGE DAILY TRAFFIC 15000		***************** APPRAISAL ************************************
	YEAR OF ADT 1999 (109) TRUCK ADT 1%	(67)	STRUCTURAL EVALUATION 7
	BYPASS, DETOUR LENGTH 2 KM	(68)	DECK GEOMETRY 3
1231		(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
	**************************************	(71)	WATER ADEQUACY 9
(48)	LENGTH OF MAXIMUM SPAN 9.1 M	(72)	APPROACH ROADWAY ALIGNMENT 8
(49)	STRUCTURE LENGTH 28 M		TRAFFIC SAFETY FEATURES 0000
(50)	CURB OR SIDEWALK: LEFT .2 M RIGHT .2 M		SCOUR CRITICAL BRIDGES 8
	BRIDGE ROADWAY WIDTH CURB TO CURB 9.1 M	1+23/	
(52)	DECK WIDTH OUT TO OUT 10.1 M		************* PROPOSED IMPROVEMENTS ***********
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 8.2 M	(75)	TYPE OF WORK - MISC STRUCTURAL WORK CODE 38
	BRIDGE MEDIAN - CLOSED (NO BARRIER) 2		LENGTH OF STRUCTURE IMPROVEMENT 28 M
	SKEW 60 DEG (35) STRUCTURE FLARED NO		BRIDGE IMPROVEMENT COST \$339,000
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		ROADWAY IMPROVEMENT COST \$34,000
	INVENTORY ROUTE TOTAL HORIZ CLEAR 9.1 M		TOTAL PROJECT COST \$509,000
	INVENTORY ROOTS TOTAL MORES SELECT		YEAR OF IMPROVEMENT COST ESTIMATE 1999
	THE CADIAL COLUMN		TEAR OF THE ROYALDING GOST TOTAL
_	MIN VENT ON BENCEBER 1881		FOTOKE ADI
	MIN LAT UNDERCLEAR RT REF - NOT H/RR 0 M	(115)	YEAR OF FUTURE ADT 2019
(56)	MIN LAT UNDERCLEAR LT 0 M		**************************************
	**************************************	(00)	INSPECTION DATE 06/01 (91) FREQUENCY 24 MO
(20)	NAVIGATION CONTROL - NOT APPLICABLE CODE N		CRITICAL FEATURE INSPECTION: (93) CFI DATE
	PIER PROTECTION - NOT REQUIRED CODE 1		) FRACTURE CRIT DETAIL - NO -1 MO A)
	NAVIGATION VERTICAL CLEARANCE 0 M	A)	) UNDERWATER INSP - NO -1 MO B)
	MAYIGHTON VINITIONS OFFI		OTHER SPECIAL INSP - NO -1 MO C)
	VERT-BILL BRIDGE MIN (III VERT GENERAL	C,	Other Steeling that Ho -1 No 6/
(40)	NAVIGATION HORIZONTAL CLEARANCE 0		

Bridge Number 55C-123

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

Date of Investigation September 10, 1997

TYPE OF INVESTIGATION/REPORT

DAMAGE **BIENNIAL** X CATEGORY A OTHER

UNDERWATER **OFFICE** 

Name BREA CANYON CHANNEL (Brea Boulevard, 0.8 mile north of

Central Avenue)

**CONDITION RATINGS:** 

Element Level Inspection (ELI) form attached.

Channel & Channel Protection

8

SCOUR CRITICAL (REVISION):

The channel invert is constructed of concrete.

A scour rating of A-1 is appropriate.

MISCELLANEOUS DISCUSSION:

The inspection team consisted of Makoto Ogata and Faye Kirchhoff.

The structure is scheduled to be retrofitted seismically in 1999.

CONDITION OF STRUCTURE:

Less than 2% of the deck AC overlay has been repaired. (0)

There are numerous cracks in barrier railing and exterior due to (O)age of the structure.

Otherwise, the condition of the structure is good.

WORK RECOMMENDED:

None.

**ENCROACHMENT:** 

One 0.30 m diameter wrapped steel pipe and ten 0.10 m PVC ducts attached to south exterior.

M. Ogata

MO:cd

TMRut

Orange County PRAskelson



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į	INFORMATION ONLY - NOT FOR UPDATE
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	GROUP A INVESTIGATION NO
	FRACTURE CRITICAL NO
	ELIGIBLE FOR RAIL UPGRADE NO
	UNDERWATER INVESTIGATION NO
	:

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
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 DAMAGE \_\_\_ **BIENNIAL** Χ OTHER CATEGORY A **OFFICE** UNDERWATER

Name BREA CANYON CHANNEL (Brea Boulevard, 0.8 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

# SCOUR CRITICAL:

A scour rating of A-3 is appropriate.

# CONDITION OF STRUCTURE:

There are numerous cracks in barrier railing and exterior due to age of the structure.

Overall condition of structure is good.

# WORK RECOMMENDED:

None.

# ENCROACHMENT:

One 0.30 m diameter wrapped steel pipe and ten 0.10 m PVC ducts attached to south exterior.

> NHD Hadi Behrooj

GPB:cd

CDHarris CC:

Orange County

WLindsey

no. O 41777

# PONTIS DATA FORM - PIA

BRIDGE NUMBER	FRAME	INSPECTI	ON DATE
	0 1	0 7 1	4 9 5
5 5 C O 1 2 3			
1 8	9	11	16

INFORMATION ONLY - NOT FOR UPDATE

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

DISTRICT 12
COUNTY ORA
ROUTE
POSTMILE
NAME

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07/18/95

Name BREA CANYON CHANNEL (Brea Location Boulevard, 0.8 mile north of Central Avenue)

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

# **SUMMARY OF ENCROACHMENTS**

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-14-95	1 - 0.30 m diameter wrapped steel pipe and 10 - 0.10 m PVC ducts attached to south exterior.

HBD M 30

Bridge Number	55C-123	'		

12 - Ora - FAS M003-CR

Dist.-Co.-Rte.-City

No. C-36817

6.30.96

TYPE OF INVES	TIGATION/REPORT
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BIENNIAL

 $\mathcal{T}$ 

DAMAGE

CATEGORY A

OTHER

**UNDERWATER** 

OFFICE

Location \_\_\_\_

Date of Investigation April 16, 1993

Name BREA CANYON CHANNEL (Brea Boulevard, 0.8 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

### 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
UNDERWATER INSPECTION	NO

DISTRICT	. 12
COUNTY	ORA
ROUTE	363636
POSTMILE	KKKKKK
NAME	

D E L		LE		ELEMENT DESCRIPTION	E N V	TOT AAUG			UNI	TS	CONE		101		QUANT CONDITION STATE 2	QUANT CONDITION STATE 3	QUANT CONDITION STATE 4	QUANT CONDITION STATE 5
		1	0	CONCRETE OPEN GIRDER/STRINGER	2	4	, 6	0	L	F	 	4	6 (	0		:		
		4	1	CONC. CAP NON-INTEGRAL M/ SUPERSTRUCTURE	2	1		2	E	A			<u>.</u>	2				
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Tracks

Facilities Crossed Brea Canyon Channel (A 04)

Lanes

# Bridge No. 55C - 123 April 12, 1991

	Aprii	12, 1991		,
DESCRIPTION - HYDRAULICS Natural canyon (	channel, heavi	ly vegetate	d. (RC rect	angular
Channel under bridge)	***************************************	. II. siri ku i maanamada kaanamaddii - Aris i aasi		
Navigable: Yes No X	Clearances: Vert		Horiz.	
Pler/Abutment Protection (For I	Navigation)			
à				· · · · · · · · · · · · · · · · · · ·
TRAFFIC INFORMATION	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	16,000	1989	N	
Average Daily Traffic (Future) :	18,000 Est	2010	N	
Average Daily Trucks ( % OF ADT )			N	
Bypass Detour Length	1 mile		N	
Shell Route:	No	···	No	
Functional Classification :	09		N	
	HS 19	Operating	нѕ 3	2
	PPPPP			
Permit				
CONDITION RATINGS:		<del></del> 1	Cubatunatura	7
Deck 7 Su	perstructure	7	Substructure	<u> </u>
Channel & Channel Protection	8 Cul	vert N	j Widenable	No
APPRAISAL RATINGS:		,		
Waterway Adequacy 9		Approach Road	way Alignment	8
Date of Revisions				
CONDITION OF STRUCTURE:				
			inom oracke	and
Due to advanced age of the spalls in the concrete re	he structure, ailing and ext	tnere are merior.	ITHOL CLACKS	una.
Condition of the structu	re is good.		•	
ENCROACHMENT:				

1-12" wrapped steel pipe and 10-4" PVC ducts attached to south exterior.

Henry Ma

HM:ms

ClibPDF - www.fastio.com

.

cc: INagai (2)

County of Orange

(2

No. C-36817

Exp. 6.30.92

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DS-M19 (REV. 1499)

SUPPLEMENTARY	RKIDGE KELOKI	Bilage 140.	
%-M19 (REV. 1/89)		Location	
		Date of In	vestigation 4-17-89
Name	BREA CANYON (Brea	Boulevard, Route 57)	0.7 mile west of
CONDITION RATI Deck 5 Superstr Channel & Channel Pro	ucture 5 Substr.&Pipe	·	Widenable? No
TYPE OF INVESTI BIENNIAL CATEGORY A UNDERWATER	IGATION /REPORT X DAMAGE OTHER OFFICE		

# CONDITION OF STRUCTURE:

As previously reported, due to advance age of this structure, there are numerous cracks and spalls in the concrete barrier and exterior of the superstructure.

Condition of the structure remains fair.

REVISION:

Location: 12-Ora-FAS M003-CR

ADT: 16,000 (1988)

WORK RECOMMENDED:

None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

- 2 RC pile cap on treated timber pile abutments.
- 2 RC pile cap on concrete piles.

Henry Ma

HM:ms

cc: INagai (2)

County of Orange (2)

No. C-36817

EXP. C/VIL

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55C - 123

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

Bridge No	55C-123
Location	7-Ora-FAS MØØ3-CR Diet - Co - Rte - FM - City
Date of investigat	ion <u>April 23, 1987</u>

No. C-36817

Name BREA CANYON (Bre	a Blvd., Ø.7 mile wes	t of Rt	e. 57)
CONDITION RATING:			APPRAISAL RATING:
5	5	5	- 4
DeckSuperstructure _	Substr. & Pipes		Overall
	7	N	
Channel & Channel Protection	Retaining Walls	<u></u>	· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·	PRIORITY
Widenable? Yes 🔲 No 🔀	Conditional		A - Immediate Action
Action Required By County	Yes No X		B - Early Scheduling C - Routine Maint. O - For Record Only

CONDITION OF STRUCTURE:

Condition of the structure is fair.

RECOMMENDED POSTING:

None

WORK RECOMMENDED:

None

HM: pht

cc: INagai (2)

Orange County (2)

Henry Ma

TATE OF CALIFORNIA	A
DEPARTMENT OF TRA	HSPORTATION
WPPLEMENTARY	BRIDGE REPORT
DH-05 M19 (REV. 1/74)	

Bridge No	55C-123
7-0:	ra-FAS M003-CR
. Lecation	(On Deck)
man of two others	November 14, 1985

	RATING:				APPRAISAL RATING:
. 5	Superstructure	5	Substr. & Pipes	5	Overell4
nnel & C	hannel Protection	(7)	Retaining Walls	(N)	
					PRICELTY
	Ass   Ho			1	A - Immediate Action B - Early Scheduling C - Routine Maint.
ion Roqu	ired by County	Y 🕶 🔲	No 🔽	(	C - Boutine Maint. O - For Record Only

# WORK DONE:

The previously recommended work to remove tree limbs has been done.

# REVISION:

Condition Rating - Retaining Wall N
Channel and Channel Protection 7
Description - Hydraulics, Channel - RC rectangular.

# CONDITION OF STRUCTURE:

There are numerous cracks and spalls in concrete barrier and exterior of overhang.

Otherwise, the condition of the structure is fair.

# RECOMMENDED POSTING:

None

WORK RECOMMENDED:

None

HM:pdh

cc: INagai (2)
Orange County (2)

Henry Ma C-36817 0

14033.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DW.OS MIN (REV. 1/74)

Bridge No	55C-123
	7-Ora-FAS M003-CR Diet-Co-Re-PM-City (On Deck)
	Diet - Co - Pile - Pile - City (Un Deck)
Date of Invest	July 13, 1983

Name BREA CANYON (Bre	a Blvo	1., 0.7 mile W	. of Rte.	57 <u>)</u>
CONDITION RATING:				APPRAISAL RATING:
Deck Superstructure Channel & Channel Protection			3-	
Widenable? Yes No County Action Required by XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		•	B	PRIORITY Immediate Action Early Scheduling Routine Maint. For Record Only

# WORK DONE:

The previously recommended work has been done.

# CONDITION OF STRUCTURE:

Many tree limbs have collected around the two exterior piles on the west side of the channel.

Otherwise, the conditon of the structure is fair.

RECOMMENDED POSTING:

None

RECOMMENDATION:

Remove the tree limbs from the piling in the creek.

E. L. Neff C-28703

ELN:pdh

Cc: DRHiggins (2)
Orange County (2)

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

Bridge No	559-123
Location	O7-Ore PAS NOOS-CR (cm deck)



Date of investigation

DH-OS M19 (REV. 1/74)	Date of Inve	etigation	July 16, 1981
CONDITION RATING:	Substr. & Pipes	5	APPRAISAL RATING:
Widenable? Yes No County Action Required by Rinking	Conditional 😨		
The previously receded and drift of COMMENCE OF STREET	imended work has not it from under the sti	t been dan ruoture.	e, i.e., elear the
<b>*</b> - · · · · · ·	ion of the structure	is fair.	
Recommentation:	nd drift out from un	der the st	gweture.



DIS1	RQU1		COUN' 55	*	STRU. NO 0123	POSTMILE .	PATING WID	Ce	•	R ORIG CONST	JUL.	15, 1980
	RATING FACTOR	PT	SPAN		MOM CAP	ULT MOM CAP BOT IN COM	POS HS20 MOMENT	NEG HS20	POS PURP	NEG PURP	DEAD LOAD MOMENT	SECONDARY MOMENT
INV	0.97	5	1		3186.7	0.0	923.8	0 • 0	1151.1	0.0	957.9	0.0
OPE	1.62	5	1		3186.7	0.0	923.8	0.0	1151.1	0.0	957.9	0.0
PURI	1,30	5	1		3186,7	0.0	923,8	0.0	1151,1	0.0	957.9	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

BREA CANYON

6" AC OVERLAY 7\_14\_80

SPLIT TANDEM

ClibPDF - www.fastio.com

D151 07	ROUTE CO.RD	COUNTY 55 C	STRU. NO 0123	POSTMILE	RATING 032,8	WIDTH-FT	STRU TYPE		IG CONST		15, 1980
INFL	JENCE LIN	E FOR CR	ITICAL IN	VENTORY RAT	ING POINT	SPAN 1	10TH POINT	5			
MEM	LEFT	• 1	• 2	.3	. 4	•5	•6	•7	.8	•9	RIGHT
NO 1	0 • 0	1.500	3.000	4.500	6.000	7+500	6.000	4.500	3.000	1.500	00

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

BREA CANYON

6" AC OVERLAY 7-14-80

SPLIT TANDEM

ClibPDF - www.fastio.com

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION BRIDGE REPORT DS-M58 (REV. 1/75) TAXED : May 8, 1960 Date of Investigation ..... Name MREA CAMPON (Brea Boulevard-.7 miles west of Route 57) W1170- 53.2' STRUCTURAL DATA AND HISTORY Division of Highways Contract No. Designed by: B.D. Plans Avail. @ ...... Description: Three MC girder (5) spans on MC pile (5) bents and MC open bents with excessted Douglas fir pile and redwood plank bulkhonds. Skew 60° Lt Design LL Ratings: Inventory BS 19.4/LF Operating BS 32.4/LF Permit PPPPP/LF DESCRIPTION - ON STRUCTURE Bridge Width 1.2°br; .5'eu; 36'; .5'eu; 1.2'br Total Width ......32.9\* Lanes \_\_\_\_\_Tracks \_\_\_\_\_ Concrete (0000) Rail Type ..... Vert. Clearance over deck ..... Appr. Rdwy. Width ..... Wearing Surface AC (6°±) Alignment ...... DESCRIPTION - UNDER STRUCTURE Roadway Section ..... Clearances: Vert.\_\_\_\_\_ Horiz.;\_\_\_\_ Lt.\_\_\_ Rt. Lanes \_\_\_\_\_Tracks \_\_\_\_\_ Pumpplant: None See Br. No. \_\_\_\_\_ Facilities Crossed Brea Canyon (CCFCP-AC2)

	. •		
STATE OF CALIFORNIA  DEPARTMENT OF TRANSPORTATION  BRIDGE REPORT  DS-M58A (REV. 1/78)		No55C-123	
DESCRIPTION HYDRAULICS			
Channel Unimproved, fa	irly.well.define	<b>4</b>	
	Clearances: Vert	Hori	z
MAINTENANCE			
Custodian Orange County		Owner Same	
ORIGINAL CONDITION RATING		ORIGINAL APPRAISAL	
Deck	5	Overall	4
Superstructure		Deck Geometry	
Substructure & Pipes		Underclearances	Vert.
Channel & Channel Protection	4		Horiz
Retaining Walls	6	Safe Load Capacity	9 .
Approach Rdwy. Alignment	9	Waterway Adequacy	
Estimated Remaining Life	20	Approach Rdwy. Alignment	7
Widenable? Yes 🔲 No 📋 Cor	nditional 🛣	Count  Action Required by Action Required By Action By A	Yes 🙀 No [
AVERAGE DAILY TRAFFIC	- Road closed du	e to storm damage to B	r. No. 550-122
BYPASS DETOUR LENGTH -	4 miles		
ENCROACHMENTS - 12" \$	pipe and a 4" #	pipe attached to the s	outherly side

of the structure.

CONDITION OF STRUCTURE - There is a great deal of debris and drift in the channel under the structure. Otherwise, the structure is in fairly good condition.

LOAD CAPACITY - The inventory, operating and permit ratings shown were obtained through the "Frame Rate" program using the load factor (LF) method of analysis.

RECOMMENDATIONS - Clear the debris and drift out from under the structure.

RECOMMENDED POSTING - None.

Original signed by

Frank J. Walliser C -19767

FJW:11 ec: DRHiggins Orange County, (2)

Sheet 1

# SUPPLEMENTARY BRIDGE REPORT

COPIES REPORT

Name

OLD 07-Gra-57

Dist.-Co.-Rte.

Post Mile

Post Mile

As a regult of action taken the California Highway Constants on August 22, 1973, Resolution R 2015, this structure was relimpsiated to the County of Grange.

Hemove from the bridge list, drop from the records, and assign Bridge No. 558-123.

J. M. Borik

R & Pertuell
By R. F. Prodochl

ABINTIDO ect Mast. 67

April 25, 1973 Date of Investigation\_

BREA CANYON

07-0ra-57

Name -

Dist.-Co.-Rte.

4.7 Miles Worth of Jct. with Rte. 72

Post Mile\_\_\_\_

# WORK DONE:

The previous recommended work covered in the Supplementary Bridge Report dated October 20, 1971 has not been done.

Metal beam guard rail has been installed along the west side of the readway.

# CONDITION OF STRUCTURE:

There is a crack in the north face of Bent 3 cap at the east end (over the easterly column). There are approximately 7 concrete rail balusters spalled in the east rail and 6 in the west rail. The south face of Bent 2 cap is spalled at the east end.

Otherwise the structure is in good condition throughout.

# RECOMMENDATIONS:

Do previous recommended work summarized below.

Chip and patch the concrete spalls with epoxy bonded cement mortar in the bettom of the east girder just south of Bent 3 and at the intersection of the overhang at the wingwall at the northeast corner.

- 2. Epoxy inject the diegonal crack in the north face of Bent 3 cap at the east end over the easterly column.
- 3. Chip out the spalled south face of Bent 2 cap at the east end and patch with epexy bended cement mortar.
- Chip out the spalled areas of the east and west concrete rail balusters and patch with epoxy bonded cement mortar.

Estimated Cost: Item 1: Covered previously

Item 2 and 3: \$100

Item 4: \$200

Next Investigation: May 1974

JMB: bg

cc: Dist. 07

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FORM H-BD M 19

Date of Investigation Oct. 20, 1971

Name BREA CANYON

07-0ra-57

Dist-Co.-Rte.

Location 4.7 Miles N. of Jct. with Rte. 72 Post Mile 27.10

# WORK DONE:

The previously recommended work has not been done.

# CONDITION OF STRUCTURE:

There is a vertical crack in the northeast wingwall in the vicinity of the most northerly bent. The upper portion of the crack is spalled leaving an opening ±2" wide with some steel exposed.

Otherwise, the structure is in about the same condition as previously reported.

EARTHQUAKE REVIEW - EVALUATION OF SUPPORT POINTS:

Good stability.

### RECOMMENDATIONS:

- Do the previously recommended work (patch the spall in the bottom of the east girder just south of bent #3).
- Clean the steel and patch the crack at the intersection of the overhang at the wingwall at the northeast corner with Speedcrete.

Estimated Cost:

Item 1: Covered previously

Item 2: \$100

Next Investigation: October 1972

BB:cm

Investigated 9/5/72 By WEB

B. Baker

cc:Dist. 07

Changes Noved Lo: Po suit Wark (Folk mine soul

in bottom & gdn. just & of Bent 3 Clean Etect patch Crack Cint. overhong + wen quall, n & Corner)

Date of Investigation July 17, 1969

Name BREA CANYON

07-0ra-57

Dist.-Co.-Rte.

Location 4.7 Miles N. of Jct. with Rte. 72 Post Mile 27.10

J. E. Bruce

# CONDITION OF STRUCTURE:

There is a concrete spall on the bottom of the east girder in the center span adjacent to the northerly pier cap.

There are numerous minor spalls in the baluster railing. These spalls are not detrimental to the railing.

Otherwise, the structure is in good condition throughout.

# RECOMMENDATIONS:

At the location of spall described above, remove all unsound concrete, remove any rust in exposed reinforcing steel, and patch with epoxy bonded concrete.

Estimated Cost: \$75

Next Investigation: October 1969

JEB:cm

cc:Dist. 07

Hdq. Maint.

Changes Noied REC: Do prec: Yec work. Note: PTPT

Lines on E. side of Eduy.

Changes Noted REC: Do prev rec work

FORM H-BD M 19

EST. 2975. 24382-500 8-68 16M OSP

Date of Investigation Sept. 7, 1967

Name BREA CANYON 07-Ora-57

Location 4.7 Miles North of Jct. Rte. 72 Post Mile 27.10

CONDITION OF STRUCTURE:

There is a 1/16" diagonal tension crack in the cap of Bent 2 (from the north abutment) over the east column extending in toward the next column over. This is noted for the record only.

There is a void under the north abutment where the sand bags are sagging. Several small gullies are forming in the abutment slope at this location also.

Otherwise, the structure is in good condition.

# **RECOMMENDATIONS:**

- 1. Fill the voids under the north abutment with PCC or AC.
- Seal the junction of the top of the sandbags and the bottom of the north abutment with PCC or AC.
- 3. Backfill the gullies on the north abutment slope.

Estimated Cost: \$150.

Next Investigation: October, 1968

D. B. Jennings

By: P. A. Bizzigotti

PAB:mb cc:Dist. 07 Hdq. Maint. Выгось Мо.

SUPPLEMENTARY EKIDGE FERNAND VBSGHEDO DOPENIESONI

Changes Noted Spen recourt.

g planter was the company of the control of the con

Lords N. K. Landing 1200 and In out C

Name FAR CARYON

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18 C May 27.23

Location 9.7 Miles Wirth or . cu. wis. .c.

COMPLTION OF STRUCTURE:

There is a 1/10" diagonal mandan costs in the day of School (From the doubt abutment) that has dest oclumn excending la new to the dest oclume aver. This is arted for the reduct of the

ines ord errow disensity office out the worms wire in sections of the same of the section are from the contract of the section

Other wish, the stored wis is not conducted.

- : HATTE RESERVED .
- · DATE OF THE WESTERN BOOK OF THE COURSE OF THE WESTERN OF THE WES

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Nort 1 westireilon: Cot. er, 1960

i. B. Thatta

P. F. Flicklicte

Ja: 5A9

VO .0427:30

ide. maint.

Date of Investigation October 4, 1966

Name BREA CANYON 07-Ora-57

Location 4.7 Miles N. of Jct, with Rte. 72 Post Mile 27.10

WORK DONE:

A 1" PMS blanket was recently placed on the deck.

The previously recommended work was done.

# CONDITION OF STRUCTURE:

There is a total of 6 1/4" of PMS along the west edge of the roadway, 5" on the east edge, and approximately 7" along centerline.

# DISCUSSION:

A stress analysis made for Bridge No. 55-37, which field measurements show to be similar, indicates that the upper limits of allowable stresses are approached when purple loads are imposed on the structure. The additional stresses are tolerable; however, any additional PMS will reduce the overload rating to "Green."

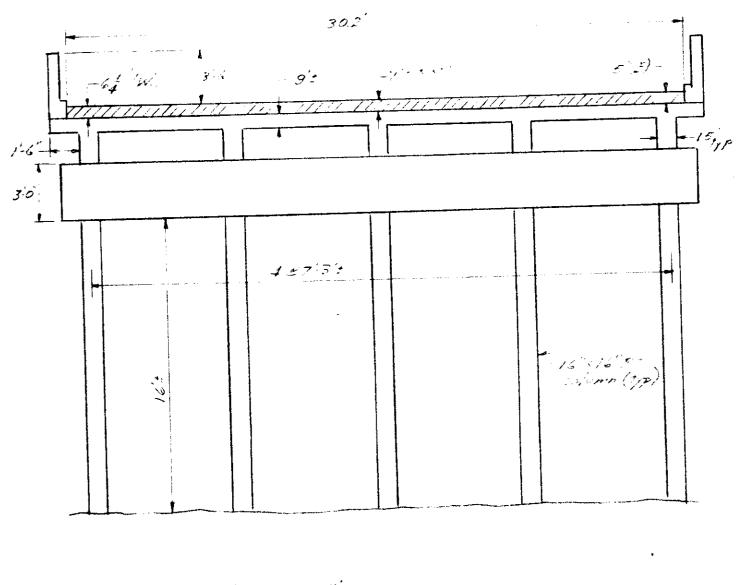
RECOMMENDATIONS: None

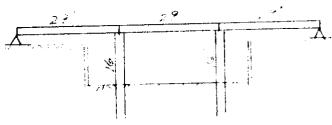
Next Invextigation: October 1967

FJS:cm

cc:Dist. 07

Hdq. Maint.





Field Alarmen by F. J Sanches

Date of Investigation August 27, 1965

Name BREA CANYON 07-0ra-57

Dist.-Co. Rt.

1

Location 4.7 Miles N. of Junction with Rte. 72 Post Mile 27.10

### WORK DONE:

state a slab by the west abutment in the west bound lane has been patched with PMS.

### CONDITION OF STRUCTURE:

There are numerous spalls on both reinforced concrete barrier rails, but no reinforcing steel is exposed.

There is a crack on the east end of the north abutment pile cap and a spall on the west end of the south abutment.

The approach fill underneath both reinforced concrete pile cap abutments has settled approximately 3" the entire length of the abutments.

The channel is heavily overgrown with bushes and saplings. Oily water has ponded underneath the bridge.

Otherwise, the structure is in good condition.

### RECOMMENDATIONS:

- Patch the spall, on the west end of the south abutment, with epoxy bonded concrete.
- Back fill under both abutment caps with cement stabilized soil, well tamped into place. Stabilize the slope adjacent to both abutments with cement.

Estimated Cost: \$250.00

Next Investigation: October, 1966

D. B. Jennings

By:

Tom Brown You Brown

TB:mb

cc: Dist.07

Hdq. Maint.

Date of Investigation Oct. 7, 1964

Name BREA CANYON

07-0ra-57

Location 4.7 Miles N. of Jct. with Rte. 72 Post Mile 27.10

Dist.-Co.-Rt.

# CONDITION OF STRUCTURE:

Several small diagonal cracks appear at the inside face of the south abutment over each pile, and should be watched in future investigations.

Otherwise the structure is in good condition.

RECOMMENDATIONS: None

Next Investigation: October 1965

D. B. Jennings

By: M. C. Hopkins

M. C. Hapkins

MCH:cm

cc:Dist.07

Hdq. Maint.

			Date of Investigati	ion August	8, 1960
Name B	REA CANYO	ON .		VII-Ora	-19-A 57
Location	4.% M11	es Northeast	of Jct. with Rte	. #72	DistCoRtSec.  Pr 27.10
Refer 1935,	to the cand to	original rep Subsequent s	ort dated Februar upplementary repo	y, 1930, an rts.	d <b>May</b> ,
CONDI	TION OF	STRUCTURE:			
The s	tructure	is in good	condition through	out.	
secti be <b>a</b> n	on. a 111	ft of approx n the deck.	surfacing of the imately 3" of P.M A total of appro	.S. materia	ıl has
RECON	MENDATIO	NS:			
None					
•	N	ext Investig	ation: August 19	61	
		-	/Nu Wii	/m // () a. M. Crawfo	ron ford
	em Dist. VII Hdq. Main		Investigated <u>9/2//</u> Changes Noted <u>/</u>	les By ARR Vone	
					3@ 29'
			Investigated 🌠	17/62 By ARR	,
			Changes Holed	none	
			Investigated 3	18/63 By BL	NC:
			Changes Hores	none	

Date of Investigation Pecember 22, 1955

BREA CANYON Name\_

VII-Ora-19-A

Dist.-Co.-Rt.-Sec.

Location 4.8 Miles Northeast of Junction with Route 2.

Refer to original report dated February 1930 and to subsequent supplementary reports.

### WORK DONE:

The work recommended under Item 1 of the previous report has been properly done.

The work recommended under Item 2 of the previous report, remove weed growth in the channel, 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, the lift of from 1 1/2% to 2 1/2% of asphaltic material has been placed on the deck.

RECOMMENDATIONS:

None.

Next Inspections: December 1956.

Investigated / 2-18-56 by ARR

Next Lave 1 100 12-57 We fastues

WEB:mh cc: Dist VII Maint. Dept.

Changes Noted \_

Investigated 8-21-57 By WHH Changes Noted none

Date of Investigation December 7, 1954

Name BREA CANYON

VII-Ora-19-A

Dist.-Co.-Rt.-Sec.

Location 4.8 Miles North East of Junction with Route 2.

Refer to original report dated May 1938 and to subsequent supplementary bridge reports.

### WORK DONE:

The work recommended in the supplementary bridge report dated December 3, 1953 has been properly done, except that the roadway toe of the dike, as described in the last sentence of Item #3, which was to have been constructed on line with the bottom curbe of the bridge produced, has not been done.

# CONDITION OF STRUCTURE

The structure appears to be in satisfactory condition, and except as noted above is in about the same condition as when list inspected.

There is a thick growth of tules and saplings in the channel both upstream and downstream from the bridge.

### RECOMMENDATIONS:

- 1. Move the berm, which exists between the curb of the bridge and the inlet to the overside drain, away from the roadway sufficiently so that the roadway toe of the dike is on line with the bottom of the curbe of the bridge produced.
- 2. Remove as much of the tule and sapling growth in the channel within the State Right of Way as practicable.

Estimated Cost of the work \$100.00

NEXT INSPECTION: December 1955.

W. E. Bastues

WEBastues

WEB:mh

cc: Dist VII
Maint Dept.



Date of Investigation December 3, 1953

Name BREA CANYON

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

Location 4.8 Miles Northeast of Junction with Route 2.

Refer to original report dated May 1935 and to subsequent supplementary reports.

The inspection as covered in this report was requested by Dist. VII.

# CONDITION OF STRUCTURE

Settlement of the roadway approach fills under and adjacent to abutment A-1 (West abutment) has taken place. This has resulted in the fill dropping away from the bottom of the abutment cap 2 to 3 inches leaving a cavity under the cap. Also as a result of this settlement the approach pavement at the end of the bridge has settled about 1" making a depression. It is understood from Foreman Farmer that the combined affect of this depression and the skew has caused accidents due to vehicles having a tendency to loose control when striking the depression on the skew. An asphaltic mixed patch was being placed at the northwest end of the bridge to smooth up the surfacing of the date of this inspection. The size of the cavity under the cap of abutment A-1 has been increased somewhat due to the action of gophers or other rodents. An inspection in the back of the cavity indicates that the approach fill against the cap of abutment A-1 consists of many fairly large boulders. The enlargement of the cavity under this abutment cap due to furthur settlement or due to the action of rodents will aggrevate the condition of settlement in the approach fill adjacent to this abutment. At the southeast corner of the bridge the natural slope of the fill material is steeper than the distance between the RC channel lining wall and the edge of the approach fill will permit without encroachment of the normal roadway width of the bridge. It appears that the simplest way to correct this condition is to increase the height of the RC channel paving wall at this location by such an amount so that by maintaining the natural slope of the material in the fill there will be no encroachment on the normal roadway width.

There is also a small cavity under the cap of abutment A-4.

The condition of the structure is otherwise about the same as when last inspected.

# RECOMMENDATIONS

It is recommended that the following work be done:

RAW:sdf cc:Dist. VII Maint. Dept.

SEE SUPPLEMENTARY REPORT OF ....

Hent Investigation /2003

and the all section of the

Charges Hoted Previously need work to be done soon

Date of Investigation of the compact fleg-

Name Elle Carroll ...

Dist - Co - Act - Sec. focation A. T. Ties Bortheact of June ton and Co.

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the inopechion as covered in this record was regulated a late unit.

COMMILION OF CERUCIVES

is the state of the roads of the contract of the state of s Protocot 4-1 (West Springent) has defined place. This has see about in the fill inopoing every from the letter of the luthman ero 2 to abid to simple and the . To one continue with one that well a second of on this ment the spranceh nave word at the end or the bridge had refoled cloud IP a time a serverion. It is anderstood from iorgan Then thet the somifical afterbook this deprecialished the skew had acceptable of the book of the control of the Went driding the depression on the scaw. An two little pixed econ the authorize on the date of this improprison. The sire of the otto under the state of all the state of the least to the second of the tenth of the state of the sta description of the contract of the end of the end of the contract of the contr the cetion of resemble will summer to the condition of restlement in file source of the condition of the continent in the source of the continent of the contin ent da Jlas guidi leas as Objail de Review soutsto en de di e gre ody? of the eleco of fill will emit allmost ends charat an the normal roofs of ideas of the tank of the implest way to correct this sometion is to decrease the helpt of the HC ob most confidence to the confidence of the conf will be no encroachment on the normal romanny width.

There is the a smill o with white the a part of part .- A.

The condition of the structure is otherwise about the same a then last inspected.

RECOMMENDATIONS

it is reconstanted that the following work be cone:

- Tha:WAG

co:Did. VII

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BRIDGE No.
SHEET 12-3-53

- 1. At abutment A-1 (this is the abutment nearest to Brea) backfill the cavity under the RC cap with damped earth thoroughly tamped into the cavity and trim the slope and fill any gopher holes in the slope adjacent to the cap of this abutment.
- -in approach fill Drill holes about 2" in diameter with a jack hammer on a line parallel to and about 1' from the back face of the abutment cap 2. at A-1. Space the holes at about 2' centers along this line. The holes should be drilled to a depth approximately at the bottom of the cap. By gravity flow, pour a lean sand cement mortar mixed with 1 part of cement to 7 parts of sand with a sufficient amount of water so that the mix will be fluid, into the holes. In order to increase intrusion into the porous rock fill it may be desirable to pour water into the holes prior to introducing the mortar. As much of this mortar should be poured into the holes as the fill material will take, in an effort to fill the cavities in the appreach as far as possible. When the holes are full of mortar excess mortar should be struck off with the surface of the mavement.
  - 3. At the southeast corner of the bridge increase the height of the RC channel wall by 2' 0" with sacked concrete. Place the sacks with the long axis of the sacks normal to the wall. The length of the wall to be 20' with the center of the length at a length of the end of the RC wingwall of the bridge drawn at right line from the end of the RC wingwall of the bridge drawn at right angles to the RC channel wall. Excavate the dirt from the top of angles to the RC channel wall. Excavate the top of the wall at the back face inorder to key the sacked concrete wall in back of the back face inorder to key the sacked concrete wall in back of the back face inorder to key the backfill at the southeast corner RC channel wall. Complete the backfill at the southeast corner af the bridge to normal section and construct shoulder dikes with the roadway toe of the dike on line with the bottom of the curb of the bridge produced.
  - 4. Construct an overside drain with a suitable catch basin adjacent to the southeast corner of the bridge to carry side drainage water into the channel at this location.
  - 5. Backfill the small cavity under the cap of abutment A-4 with damped ed darth well rammed into the cavity.

Estimated sost: About \$700

Next investigation: December 1953.

WAGNEB

61

#### SUPPLEMENTARY BRIDGE REPORT

Date of Investigation January 17, 1951

VII-Ora-19-A Name BREA CANYON Location 4.8 miles ME of Jct. with Rte. 2

Refer to original report dated May 1935, and to subsequent supplementary reports.

### CONDITION OF STRUCTURE:

The bridge number of structure has become quite dim.

Otherwise, the structure is in good condition.

#### RECOMMENDATIONS:

Repaint the bridge number on the structure.

Next investigation: January 1952.

HKM:jc

cc: Dist. VII Maint. Dept.

Investigated 1-17-52 By MWG Next Investigation / 53 Changes Noted Work Previously Book

Investigated 12/17/52 By JPA Next Investigation 12-53 Changes Noted NONE

## SUPPLEMENTARY BRIDGE REPORT

		Date of Investigation August 17, 1948
Name	BREA CANYON	VII-Ora-19-A DistCoRtSec.
Location	4.8 Miles ER of Jct. W	ith Rte. 2
reports.		rt dated May 1935, and to subsequent supplementary
•	OF CHARRELE	
	The channel is concret	e lined adjacent to the bridge.
WIDENING:		
	Widening is feasible o	n either side.
DETOUR:		
mated cos	A detour at this site it of such detour is \$5,	will require some provision for waterway. Esti- 000. The east side is preferable for a detour
SALVARLE	MATERIALS:	
	None.	
COMDITION	OF STRUCTURE:	· ·
•	The structure is in go	ood condition.
RECOMMEN	DATIONS:	
	None.	Next Investigation: August 1949.
		OBIGINAL GIGNED TO M. W. GEWERTT
		M. V. GEVERTZ
<b>1816.3</b> 1		Investigated //-3-49 By WOL
MVG:1h		Wext Investigation 450
	st. VII int. Dept.	Changes Noted None

### SUPPLEMENTARY BRIDGE REPORT The contract of

Date of Investigation February 5, 1946

Name BREA CANYON

VII-Ora-19-A

Dist.-Co.-Rt.-Sec.

Location 4.7 Miles north of junction with Route 2.

Refer to original report dated May 1938.

WORK DONE: -

The work recommended in the previous report and authorized under Work Order #07XXC2, \$15,262.50, issued December 16, 1938, has been done satisfactorily. "As Built" plans of the channel protection are on file in the Bridge Department files.

PRESENT CONDITION OF STRUCTURE:-

The structure is now in excellent condition throughout. RECOMMENDATIONS:-

No work is recommended at this time.

Next investigation, May 1942.

Book EnvBathestion

And Beaton

Investigated 4/8/42 By UHU: Next Investigation 5/43 Changes Noted 2000 No fences within KIW.

Investigated 6-3-43 By RAW Next Investigation 6-45 Changes Noted

District VII (2) Maintenance Dept. Investigated 4/23/45 By RES Next Investigation 4-46

Investigated 5-16-46 By RAW. Next Investigation 4-47 Changes Noted\_ None

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Minor cheloscur in tops acabut, piles fin stream Agoes

Abut. Caps, over piles, due to cleff by corth pressure

Abut. Caps, over piles, due to see Supplementary report of 1-17-48 Following. Changes Noted Nove

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Вкюсь No.....

Investigated 6-19-47 By. SUPPLEMENTARY BRIDGE REI

Next Investigation\_

Dist -Co.-Rt. Sec.

Date of Investigation February

MOYMAD ARES SAREM VII-078-13-A

Location 4. Wiles north of junction with Route ?.

Refer to original report dated May 1958.

WORK DOME:-

The work recommended in the previous report and authorized under Work Order WOTXXC2, \$15,362.50, isried December 16, 1938, has been done satisfactorily. "As Built" plans of the channel protection are on file in the Bridge Lepartment files.

PRESENT CONDITION OF STRUCTURE:-

The structure is now in excellent condition throughout.

RECOMMENDATIONS:-

No work is recommended at this time.

May 1942.

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Luventianten until sy Kan

24 mg . 10. Jan . vol Jxell

Changes Not below assumed

investigated 5-16-16 Ev. Pull

Next Assestagatogas taen

Lordy Landid Session

Maintenance Dept. dement .Th The Takey Pass Season

District VII (2)

### December 16. 1912

DIVISION OF HIGHWAYS

S. V. Cortelyou

Los Angeles, California DISTRICT ENGINEER

AUTHORITY IS GRANTED TO EXPEND THE FOLLOWING SUMS FOR THE PURPOSE HEREIN SPECIFIED:

LOCATION AND DESCRIPTION OF WORK

Road VII-Ora-19-A

After Canyon about five miles northeast of Fullerton

Reinforced concrete channel protection at existing bridge site.

Vido Kovacovich)

\$ 13,565.00

State furnished material and expense Supplemental work (detail within)

Subtotal

\$ 13,875.00

Contingencies 10%

1.387.50

Total

15,262.50



THIS AUTHORIZATION .

TOTAL AUTHORIZATIONS TO DATE

PREVIOUS AUTHORIZATIONS .

PAYABLE FROM STATE HIGHWAY FUND

ORIGINAL SIGNED BY G. T. McCOY

STATE HIGHWAY ENGINEER

BALANCE AVAILABLE

ALLOTMENT APPROVED:

AMOUNT OF THIS WORK ORDER \$ 15.269.50

ORIGINAL SIGNED FACE LEE KELLY

DATE.

DEC 21 1938

BALANCE

FORM 202, EST. 4605, 60696 7-30

AK

### Supplemental Work

Pitch excevation beyond Repair to rail at N.E. Removing bulkheads and	corner	\$100.00 10.00 200.00
· · · · · · · · · · · · · · · · · · ·	To tal	\$310.00

# BRIDGE REPORT

	Date of Investigation May 13,1938
General Description	57
Name BREA CANYON	VII-Ora-19
Location 4. Wiles notth	of junction with Rte. 272 Pr 27.10 A
	rder spans on RC(5) pile bents and open
end bents. Creosoted Do	ouglas fir pile and redwood plank bulkheads
m front of open bents.	holding fill. Concrete railings. Asphaltic
surfacing.	Approximate skew 60° Lt.
Spans 3 @ 29.0 c/c	
	Total length 90 °
Roadway width 30.21 bet	ween Concrete curbs. Sidewalks None (10" high-6" top width)
Alignment Final and on	tangent
	ce of road. OK for some time.
Standard of design Strong Co	unty standard.
Waterway Excessive.	Velocity medium. Sand and peat soil.
T A T A T A T T T T T T T T T T T T	938. Clear height at center of channel is Has scoured about 5 since built.
Vertical clearance	under(See diagram)
History	A - A County - A
Date builtBy_	Orange County . Contract No.
Designed by	
Plans To be obtained.	
Remarks	
4 = 4	
cc: District VII (2) Waintenance Dept.	
Mr. Wagner.	
53022 1-38 2M. EST. 2706 STATE PRINTING OFFICE	SEE SUPPLEMENTARY REPORT OF FEB 5 1940 OLLOWING.

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Remor	No. 22		
	Sheet	la	

Name BREA CANYON BRIDGE Location

## Summary of Construction, Maintenance and Alteration Work

CONT. OR W. O. No.	DATE	DESCRIPTION	₩.O. AMOUNT	FINAL COST
54 <b>-782</b> 0	2-10-54	Replace fill material under Br. approach as recommended in Br. Report dated 1-14-54.	\$500.	\$500.
54-70476	4-19-54		340	7705.
532-057	7-14-66	Perphated 8-27-65	and Market sections	# 7//.3

Bridge No. SHEET 2 DATE May 13,1938

### CONDITION OF STRUCTURE:-

Channel has apparently scoured down about 5 since bridge was built. During the extreme highwater of 1938, parts of the bulkheads upstream from the bridge failed, and part of the roadway fill washed out. This damage has been temporarily repaired. The creosoted Douglas fir piles of the bulkheads are tied back with cables to deadmen, and are in fairly good condition except that the deadmen have failed on the north upstream wing and allowed piles to tip outward. Considerable of the redwood bulkhead planking has decayed and failed throughout entire lengths of bulkheads.

All concrete appears to be of good quality, and the balance of the structure is in good condition throughout.

#### SUMMARY: -

Structure is safe for legal loads by inspection.

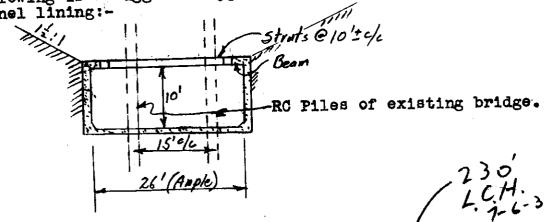
Probable remaining economic service life, structurally, is 50 years.

### RECOMMENDATIONS:-

It is recommended that during the summer of 1938 the following work be done by contract, as agreed with District VII. All work outlined should be completed before rains of next winter.

A site plan should be obtained by the Bridge Department field party, as requested in memorandum to Mr. Mitchell, dated May 27,1938, after which contract drawings and specifications for the work should be drawn up by the Bridge Department.

The following is a suggested typical cross section of the proposed chammel lining:-



Channel to be lined for total distance of about 180! with a channel lining constructed along the above lines, but not larger in internal dimensions. Cut off walls will be necessary at each end, extending at least 8' below flow line. Wing walls may be necessary. Lining must be curved on upstream end, and backfilled where there is no existing backfill. Existing timber bulkheads may be buried in fill. 5 1940 OLLOWING

(See next sheet)

RECOMMENDATIONS (Concluded):-

It is estimated that the above work will cost about \$8,500.

It has been agreed by Mr. Waterman that this work can be financed from **EXECUTION** balance remaining in Bridge Minor Improvement Item #3 for redecking the Santa Ana River Bridge, #55-106, Ora-181-A.

Next inspection, July 1939

Fred Armes.

Hame BREA CANYON Location VII-Ora-19-A Dist.-Co.-Rte.-Sec.

# SUMMARY OF ENCROACHMENTS

ermit No.	Pate	Description
		3" steel pipe line crosses transverse to structure in fill under span #1
		Permittee: Metro Water Dept
		·