

Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 024A
 Mile Post (ON)11: 303.551 mi

Bridge Name: I-17-DE Inspection Date: 10/9/2012 Sufficiency Rating: 74.5 Not Eligible

NBI Reporting ID:	I-17-DE
Rgn/Sectn 2E/2M:	24
Trans Region 2T	01
County Code 3:	041
EL PASO	
Place Code 4:	16000
COLORADO SPRINGS	
Rte.(On/Under)5A:	1
Signing Prefix 5B:	2
Level of Service 5C:	1
Directional Suffix 5E:	0
Feature Intersected 6:	
FOUNTAIN CREEK	
Facility Carried 7:	
US 24 ML	
Alias Str No.8A:	
Prll Str No. 8P	
Location 9:	
IN COLORADO SPRINGS	
Max Clr 10:	328.1 ft
BaseHiway Net12:	1
IrsinvRout 13A	000000024A
IrrsubRout No13B:	00
Latitude 16:	38d 49' 47"
Longitude 17:	104d 50' 17"
Range18A:	67 W
Township18B:	67
Section18C:	13
Detour Length 19:	2.0 mi
Toll Facility 20:	3
Custodian 21:	1
Owner 22:	1
Functional Class 26:	12
Year Built 27:	1959
Lanes on 28A:	4
Lanes Under 28B:	0
ADT 29:	43,000
Year of ADT 30:	2008
Design Load 31:	5
Apr Rdwy Width 32:	68.0 ft
Median 33:	2
Skew 34:	35.00 °
Structure Flared 35:	0
Sfty Rail 36a/b/c/d:	0 0 1 1
Rail ht36h:	44 "in"

Hist Signif 37:	5
Posting status 41:	A
Service on/un 42A/B:	1 5
Main Mat/Desgn 43A/B:	5 2
Appr Mat/Desgn 44A/B:	0 0
Main Spans Unit 45:	3
Approach Spans 46:	0
Horiz Clr 47:	60.0 ft
Max Span 48:	44.0 ft
Str Length 49:	125.8 ft
Curb Wdth L/R 50A/B:	2.0 ft 2.0 ft
Width Curb to Curb 51:	60.0 ft
Width Out to Out 52:	64.0 ft
Deck Area:	8,062.2 sq. ft
Min Clr Ovr Brdg 53:	99.99
Min Undrclr Ref 54A:	N
Min Undrclr 54B:	0.0 ft
Min Lat Clrnce Ref R 55A:	N
Min Lat Undrclr R 55B:	0.0 ft
Min Lat Undrclr L 56:	0.0 ft
Deck 58:	6
Super 59:	7
Sub 60:	7
Channel/Protection 61:	8
Culvert 62:	N
Optng Rtg Method 63:	1 LF Load Factr
Operating Rating 64:	44.0
Inv Rtg Method 65:	1
Inventory Rating 66:	26.0
Asph/Fill Thick 66T:	003 "in"
Str. Evaluation 67:	5
Deck Geometry 68:	4
Undrclr Vert/Hor 69:	N
Posting 70:	5
Waterway Adequacy 71:	8
Approach Alignment 72:	8
Type of Work 75A:	
Work Done By 75B:	
Length of Improvment 76:	0.0 ft
Insp Team Indicator 90B:	RED TEAM
Inspector Name 90C:	ROSSARTB
Frequency 91:	24 months
FC Frequency 92A:	
UW Frequency 92B:	
SI Frequency 92C:	
FC Inspection Date 93A:	

UW Inspection Date 93B:	
SI Date 93C:	
Bridge Cost 94:	\$ 0
Roadway Cost 95:	\$ 0
Total Cost 96:	\$ 0
Year of Cost Estimate 97:	
Brdr Brdg Code/% 98A/B:	
Border Bridge Number 99:	
Defense Highway 100:	0
Parallel Structure 101:	N
Direction of Traffic 102:	2
Temporary Structure 103:	
Highway System 104:	1
Fed Lands Hiway 105:	0
Year Reconstructed 106:	0000
Deck Type 107:	1
Wearing Surface 108A:	6
Membrane 108B:	0
Deck Protection 108C:	0
Truck ADT 109:	6 %
Trk Net 110:	1
Pier Protection 111:	#
NBIS Length 112:	Y
Scour Critical 113:	5
Scour Watch 113M:	0
Future ADT 114:	65,790
Year of Future ADT 115:	2028
CDOT Str Type 120A:	CPG
CDOT Constr Type 120B:	0.
Inspection Indic 122A:	
Inspection Trip 122AA:	
Inspection Schedule ID:	ODD DEC D11
Maintenance Patrol 123:	37
Expansion Dev/Type124:	O
Brdg Rail Type/Mod 125A/B:	J 0
Posting Trucks 129A/B/C:	0 0 0
Str Rating Date 130:	8/13/1997
Special Equip 133:	-1
Vert Clr N/E 134A/B/C:	X 99.99 0
Vert Clr S/W 135A/B/C:	X 99.99 0
Vertical Clr Date:	5/5/1905
Weight Limit Color: 139:	0
Str Billing Type:	U
Userkey 1 - System:	ONSYS
Userkey 7-Update Indic:	

Inspector Name: ROSSARTB

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
13/1	Unp Conc Deck/AC Ovl	(SF)	8,051	100 %	8,051	0 %	0	0 %	0	0 %	0	0 %	0
109/1	P/S Conc Open Girder	(LF)	1,160	99 %	1,150	1 %	10	0 %	0	0 %	0	0 %	0
210/1	R/Conc Pier Wall	(LF)	145	100 %	145	0 %	0	0 %	0	0 %	0	0 %	0
215/1	R/Conc Abutment	(LF)	158	100 %	158	0 %	0	0 %	0	0 %	0	0 %	0
234/1	R/Conc Cap	(LF)	147	100 %	147	0 %	0	0 %	0	0 %	0	0 %	0
304/1	Open Expansion Joint	(LF)	158	100 %	158	0 %	0	0 %	0	0 %	0	0 %	0
308/1	Constr Non Exp Jt	(LF)	125	100 %	125	0 %	0	0 %	0	0 %	0	0 %	0
311/1	Moveable Bearing	(EA)	20	0 %	0	100 %	20	0 %	0	0 %	0	0 %	0
313/1	Fixed Bearing	(EA)	40	0 %	0	100 %	40	0 %	0	0 %	0	0 %	0
325/1	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/1	Bridge Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
334/1	Metal Rail Coated	(LF)	252	0 %	0	0 %	0	50 %	126	50 %	126	0 %	0
338/1	Conc Curbs/SW	(LF)	252	83 %	208	8 %	20	10 %	24	0 %	0	0 %	0
359/1	Soffit Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
501/1	Channel Cond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
504/1	BankCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
13/1	Unp Conc Deck/AC Ovl	3 Inches of asphalt. Wheel rutting. Cracks across abutments. Alligator cracks at several locations, and some have been sealed.
109/1	P/S Conc Open Girder	Blacken soot stains along all girders in spans 1 and 3 from many campfires by homeless occupation. The A4 end of Girders 3A; 3B; 3C; and 3D are spalled at the sole plate. See 2012 PHOTOS.
210/1	R/Conc Pier Wall	Very light vertical cracks. Graffiti on Pier walls.
215/1	R/Conc Abutment	A few vertical cracks. Up to 12 inches of dirt built up on the A1 & A3 seats, esp. in Bay F. See 2012 PHOTO. Concrete pedestals are good condition.
234/1	R/Conc Cap	A few light vertical cracks. Some delam. at the bottom of the Pier 2 Cap in Span 1, caused by campfires. Heavy graffiti at both Piers Caps.
304/1	Open Expansion Joint	At abutments. Covered with asphalt, some transverse cracking along the joints, and opening (up to 2 inches) and active leaking at both; See 12/2010 & 10/2012 PHOTOS.
308/1	Constr Non Exp Jt	A longitudinal joint is open along the centerline. Waterstained and leaking. See 10/2012 PHOTO.
311/1	Moveable Bearing	R1 corrosion.

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Elem/Env	Description	Element Notes
313/1	Fixed Bearing	R1 corrosion.
325/1	Slope Prot/Berms	Dirty. Campfire ashes all over the place at both span 1 & 3.
326/1	Bridge Wingwalls	Stub type wingwalls. Look OK.
334/1	Metal Rail Coated	Painted Type J bridge railing. Repainted before the 2012 inspection, but looks like areas were not primed before painting, and just painted over the R1 and R2 corrosion to the rail. Left side of rail has been pushed out of alignment near A4.
338/1	Conc Curbs/SW	Numerous transverse cracks. The Median curb has a small spall with exposed rebar over Pier 2, on the Right side. The Left edge of the curb and outside face has delaminated and spalls with exposed rebar over Spans 1 & 2. A spall with exposed rebar at A4 Right, at the railing post.
359/1	Soffit Smart Flag	Several transverse and longitudinal cracks throughout, a few with efflor. Some rust stains in Bay 2I, at Pier 3 and Bay E along the median have efflor with rust stains. See 10/2012 PHOTO.
501/1	Channel Cond	Fountain Creek. Good alignment. Sand and gravel bottom with a few cobbles. Cut trees upstream could restrict flow through the bridge in the future.
504/1	BankCond	Steep slopes, lined with trees and grass.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
353.08	Br Dk Rpr	1/3/2001	-1	2015	300

Seal cracks in asphalt above both abutments.

358.04	Substr	1/3/2001	-1	2015	1200
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Need gates to access Spans 1 & 3 for inspections. Contact inspections unit and we will provide padlocks.

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MMS Activity	Description	Recommended	Status	Target Year	Est Cost
357.01	Bearings	1/3/2001	-1	2015	680

Remove dirt from around bearings at abutments and concrete pedestals.

Bridge Notes

Inspected Spans 1 & 3 (2 LADDERS needed to CLIMB OVER CAPS) in 2012 INSPECTION.
Barrier fencing installed by maintenance personnel, to keep transients out (not really working as homeless are still living in these spans.)
Abutments, Girders, Pier walls, and Pier Caps have been blackening with soot from the many past and present campfires in both spans 1 & 3.

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Inspection Notes

TIME: 16:10 **TEMPERATURE:** 57 Degrees F. **WEATHER:** Clear/Windy

Scope:

NBI: Element: Underwater: Fracture Critical: Other: **Type:** Regular NBI

Team Leader Inspection Check-off:

- FCM's
- Posting Signs
- Essential Repair Verification
- Vertical Clearance
- Stream Bed Profile

Inspection Team:

Inspection Date: 10/09/2012

Inspector: ROSSARTB

Inspector (Team Leader)