

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

Highway Number (ON) 5D: 025A  
 Mile Post (ON)11: 141.200 mi

Bridge Key: I-17-DH      Inspection Date: 9/18/2012      Sufficiency Rating: 62.1      Not Eligible

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:	1
Level of Service 5C:	7
Directional Suffix 5E:	0
Feature Intersected 6:	
FOUNTAIN CREEK	R
Facility Carried 7:	
RAMP TO I 25 NBND	
Alias Str No.8A:	
Prll Str No. 8P	
Location 9:	328.05117409
IN COLORADO SPRINGS	
Max Clr 10:	99.99
BaseHiway Net12:	0
IrsinvRout 13A	0000000000
IrssubRout No13B:	00
Latitude 16:	38d 49' 41"
Longitude 17:	104d 50' 04"
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:	11
Year Built 27:	1959
Lanes on 28A:	2
Lanes Under 28B:	0
ADT 29:	9,440
Year of ADT 30:	2005
Design Load 31:	5
Apr Rdwy Width 32:	54.0 ft
Median 33:	0
Skew 34:	15.00 °
Structure Flared 35:	1
Sfty Rail 36a/b/c/d:	0 0 0 0
Rail ht36h:	45 "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:	30.0 ft
Max Span 48:	36.0 ft
Str Length 49:	126.0 ft
Curb Wdth L/R 50A/B:	2.0 ft 2.0 ft
Width Curb to Curb 51	30.0 ft
Width Out to Out 52:	34.0 ft
Deck Area:	4,284. sq. ft
Min Clr Ovr Brgd 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
Deck 58:	6
Super 59:	7
Sub 60:	7
Channel/Protection 61:	7
Culvert 62:	N
Optrng Rtg Method 63:	1 LF Load Factr
Operating Rating 64:	38.0
Inv Rtnng Method 65:	1
Inventory Rating 66:	23.0
Asph/Fill Thick 66T:	003 "in"
Str. Evaluation 67:	5
Deck Geometry 68:	4
Undrclr Vert/Hor 69:	N
Posting 70:	5
Waterway Adequacy 7	8
Approach Alignment 72:	8
Type of Work 75A:	33
Work Done By 75B:	1
Length of Improvment 76:	126.3 ft
Insp Team Indicator 90B:	WHITE TEAM
Inspector Name 90C:	BUTKOVICHJ
Frequency 91:	24 months
FC Frequency 92A:	-1
UW Frequency 92B:	-1
SI Frequency 92C:	-1
FC Inspection Date 93A:	

UW Inspection Date 93B	
SI Date 93C:	
Bridge Cost 94:	\$ 154,225
Roadway Cost 95:	\$ 15,423
Total Cost 96:	\$ 231,338
Year of Cost Estimate 97:	2006
Brdr Brdg Code/% 98A/B:	
Border Bridge Number 99:	
Defense Highway 100:	1
Parallel Structure 101:	N
Direction of Traffic 102:	1
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:	7 %
Trk Net 110:	1
Pier Protection 111:	#
NBIS Length 112:	Y
Scour Critical 113:	5
Scour Watch 113M:	0
Future ADT 114:	12,555
Year of Future ADT 115	2025
CDOT Str Type 120A:	CPG
CDOT Constr Type 120B	3.
Inspection Indic 122A:	
Inspection Trip 122AA	
Scheduling Status 122B	
Maintenance Patrol 123:	69
Expansion Dev/Type124	0
Brdg Rail Type/Mod 125A/B	J 0
Posting Trucks 129A/B/C	0 0 0
Str Rating Date 130:	8/6/1997
Special Equip 133:	-1
Vert Clr N/E 134A/B/C:	X 99.99 0.00
Vert Clr S/W 135A/B/C	X 99.99 0.00
Vertical Clr Date:	1/1/1901
Weight Limit Color: 139	0
Str Billing Type:	U
Userkey 1 - System:	ONSYS
Userkey 7-Update Indic	

Inspector Name: BUTKOVICHJ

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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
13/4	Unp Conc Deck/AC Ovl	(SF)	4,284	0 %	0	100 %	4,284	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	651	100 %	651	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	66	100 %	66	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	95	99 %	94	1 %	1	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	68	99 %	67	0 %	0	1 %	1	0 %	0	0 %	0
304/4	Open Expansion Joint	(LF)	167	99 %	166	0 %	0	1 %	1	0 %	0	0 %	0
311/4	Moveable Bearing	(EA)	22	0 %	0	100 %	22	0 %	0	0 %	0	0 %	0
313/4	Fixed Bearing	(EA)	12	0 %	0	100 %	12	0 %	0	0 %	0	0 %	0
325/4	Slope Prot/Berms	(EA)	2	100 %	0	0 %	2	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	4	75 %	3	0 %	0	25 %	1	0 %	0	0 %	0
334/4	Metal Rail Coated	(LF)	252	80 %	202	20 %	50	0 %	0	0 %	0	0 %	0
338/4	Conc Curbs/SW	(LF)	252	100 %	251	0 %	1	0 %	0	0 %	0	0 %	0
359/4	Soffit Smart Flag	(EA)	1	100 %	0	0 %	1	0 %	0	0 %	0	0 %	0
501/4	Channel Cond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
502/4	ChannProtMatCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
504/4	BankCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
505/4	Debris Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
13/4	Unp Conc Deck/AC Ovl	3 inches of asphalt. Few light random cracks. Several mod potholes right at A1, 1 with concrete and rebar exposed (see previous photo). 4 sq ft pothole in Span 3 near centerline. Alligator cracking over Abut 4.
109/4	P/S Conc Open Girder	Covered with soot in Spans 1 and 3 from campfires set by transients. 2E has spots of rust stains on bottom beneath deck drain.
210/4	R/Conc Pier Wall	Few hairline vertical cracks.
215/4	R/Conc Abutment	A1 has small spall in the pedestal below Girder 1G. Backwalls and pedestals covered with soot from fires.
234/4	R/Conc Cap	Small spall on top right corner of #2.
304/4	Open Expansion Joint	Covered with asphalt.
311/4	Moveable Bearing	(7) at A1 and 5 at each other support. Light R1 to R1. Dirty. Some grout missing.
313/4	Fixed Bearing	(7) at P2 and (5) at P3. Dirty. Light R1 to R1. Some grout missing.
325/4	Slope Prot/Berms	Rock riprap on A1 slope. Transients have rearranged some rocks to suit themselves. A4 berm has rock filled gabions to protect slope.
326/4	Bridge Wingwalls	Stubs. #1 left has been hit and has broken/spalled concrete. Bolts from rail not embedded due to spall. Minor spalls on top of #1 right.

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Elem/Env	Description	Element Notes
334/4	Metal Rail Coated	Type J rail. 2008 photo shows rail damage left at A1. Rail has been replaced on deck curb only, not on wingwall and both railings have been painted green.
338/4	Conc Curbs/SW	Light trans cracks. Minor spall on top of left curb and spalled with exposed rebar at end over Abut 4. Right side, outside of curb delam cracks and spalling with exposed rebar at P2 and Span 2.
359/4	Soffit Smart Flag	Few light trans cracks with light efflor. Scattered areas of hairline map cracking and scale with and without efflor. (Bays B & C have the most). Right side, outside curb edge at P2 and Span 2 area has delam cracks and spalling with exposed rebar.
501/4	Channel Cond	Fountain Creek. Sand, cobbles, and gravel bottom. Good alignment.
502/4	ChannProtMatCond	Rock filled gabions stacked vertically on North bank. Concrete check dam downstream approx 50 feet.
504/4	BankCond	Heavy growth of trees and brush.
505/4	Debris Smart Flag	Small branches hung up on P3 nose and medium sized log across Span 3.

**Maintenance Activity Summary**

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
398.00	Misc Br Wk	9/15/2010	-1	2014	500

Trim trees both sides of bridge at both abutments.

353.04	Br Dk Rpr	7/24/2002	-1	2014	600
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Patch potholes right at A1 and centerline of Span 3.

358.06	Substr	9/28/2004	-1	2014	2000
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Repair wingwall at A1 left, which has broken/spalled concrete from being hit.

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**Bridge Notes**

**Inspection Notes**

Time: 9:05    Temperature: 55 F    Weather: Clear

**Scope:**

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

Inspector: BUTKOVICHJ

Inspection Team:

Inspection Date: 09/18/2012

\_\_\_\_\_  
Inspector

\_\_\_\_\_  
Inspector