

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

Highway Number (ON) 5D: 025A

Mile Post (ON)11: 140.712 mi

Bridge Name: I-17-EI

Inspection Date: 12/13/2012

Sufficiency Rating: 70.0 Not Eligible

NBI Reporting ID:	I-17-EI	Hist Signif 37:	5	UW Inspection Date 93B:	
Rgn/Sectn 2E/2M:	24	Posting status 41:	A	SI Date 93C:	
Trans Region 2T:	01	Service on/un 42A/B:	1 5	Bridge Cost 94:	\$ 0
County Code 3:	041	Main Mat/Desgn 43A/B:	1 19	Roadway Cost 95:	\$ 0
EL PASO		Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
Place Code 4:	16000	Main Spans Unit 45:	2	Year of Cost Estimate 97:	
COLORADO SPRINGS		Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Rte.(On/Under)5A:	1	Horiz Clr 47:	50.0 ft	Border Bridge Number 99:	
Signing Prefix 5B:	1	Max Span 48:	14.0 ft	Defense Highway 100:	1
Level of Service 5C:	1	Str Length 49:	29.0 ft	Parallel Structure 101:	N
Directional Suffix 5E:	0	Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	2
Feature Intersected 6:		Width Curb to Curb 51:	0.0 ft	Temporary Structure 103:	
DRAW		Width Out to Out 52:	118.0 ft	Highway System 104:	1
Facility Carried 7:		Deck Area:	3,422.9 sq. ft	Fed Lands Hiway 105:	0
I 25 ML		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	0000
Alias Str No.8A:		Min Undrclr Ref 54A:	N	Deck Type 107:	N
		Min Undrclr 54B:	0.0 ft	Wearing Surface 108A:	N
Prll Str No. 8P		Min Lat Clmce Ref R 55A:	N	Membrane 108B:	N
		Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	N
Location 9:		Min Lat Undrclr L 56:	0.0 ft	Truck ADT 109:	9 %
IN COLORADO SPRINGS		Deck 58:	N	Trk Net 110:	1
Max Clr 10:	328.1 ft	Super 59:	N	Pier Protection 111:	#
BaseHiway Net12:	1	Sub 60:	N	NBIS Length 112:	Y
IrsinvRout 13A:	000000025A	Channel/Protection 61:	6	Scour Critical 113:	8
IrrsubRout No13B:	00	Culvert 62:	6	Scour Watch 113M:	0
Latitude 16:	38d 49' 18"	Oprrng Rtg Method 63:	0	Future ADT 114:	119,738
Longitude 17:	104d 50' 09"	Operating Rating 64:	40.0	Year of Future ADT 115:	2028
Range18A:	67 W	Inv Rtnng Method 65:	0	CDOT Str Type 120A:	CBC
Township18B:	67	Inventory Rating 66:	36.0	CDOT Constr Type 120B:	0.
Section18C:	24	Asph/Fill Thick 66T:	036 "in"	Inspection Indic 122A:	
Detour Length 19:	3.0 mi	Str. Evaluation 67:	6	Inspection Trip 122AA:	
Toll Facility 20:	3	Deck Geometry 68:	N	Inspection Schedule ID:	ODD SEP C_9
Custodian 21:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	69
Owner 22:	1	Posting 70:	5	Expansion Dev/Type124:	0
Functional Class 26:	11	Waterway Adequacy 7:	8	Brdg Rail Type/Mod 125A/B:	FB 3
Year Built 27:	1959	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes on 28A:	6	Type of Work 75A:		Str Rating Date 130:	8/12/2011
Lanes Under 28B:	0	Work Done By 75B:		Special Equip 133:	
ADT 29:	87,400	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0
Year of ADT 30:	2008	Insp Team Indicator 90B:	WHITE TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0
Design Load 31:	4	Inspector Name 90C:	MONDRAGONK	Vertical Clr Date:	5/5/1905
Apr Rdwy Width 32:	100.0 ft	Frequency 91:	24 months	Weight Limit Color: 139:	0
Median 33:	3	FC Frequency 92A:		Str Billing Type:	U
Skew 34:	0.00 °	UW Frequency 92B:		Userkey 1 - System:	ONSYS
Structure Flared 35:	0	SI Frequency 92C:		Userkey 7-Update Indic:	
Sfty Rail 36a/b/c/d:	1 1 1 1	FC Inspection Date 93A:			
Rail ht36h:	24 "in"				

Inspector Name: MONDRAGONK

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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
361/1	Scour Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
241/4	Concrete Culvert	(LF)	236	47 %	110	47 %	110	7 %	16	0 %	0	0 %	0
327/4	Culvert Wingwalls	(EA)	4	0 %	0	75 %	4	25 %	0	0 %	0	0 %	0
335/4	Culvert Headwalls	(EA)	2	100 %	2	0 %	0	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

Elem/Env	Description	Element Notes
361/1	Scour Smart Flag	36 in scour hole at outlet of Cell #1 and along Wing #1 Rt. footing.
241/4	Concrete Culvert	Light vertical cracks in all walls. Top slab has light efflorescence and rust stains along second construction joint from right end. Bottom slab in Cell #1 has moderate stream abrasion. The portion of the bottom slab in Cell #2 that is still visible has light stream abrasion. The side walls are cracked/broken near the bottom at the joints with the left wingwalls.
327/4	Culvert Wingwalls	#1 Rt. pushed 3 inches at the top and settled 4 inches plus footing is exposed; #1 Lt. pushed 2 inches, open 1 inch; #3 Rt. pushed 1 inch, open 1 inch; #3 Lt. pushed 2 inches, open 1 inch.
335/4	Culvert Headwalls	Light vertical cracks over divider walls.
501/4	Channel Cond	Main flow thru cell #1. 36 inch drop/scour at outlet of cell #1. (See photo dated 9/14/2010). Cell #2 has raised pedestrian path against wall #3 and small gutter down wall #2 (see photo and sketch).
502/4	ChannProtMatCond	Original concrete apron at outlet was washed away completely and never replaced. Some rock riprap at outlet cell #1 and riprap placed along bike path on right side (see photo). Also a low check dam built of rocks just downstream to ease scour.
504/4	BankCond	Lined with trees both sides.

**Maintenance Activity Summary**

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
358.03	Substr	7/24/2002	-1	2020	1000

Place riprap at the outlet of Cell #1 and at Wingwall #1 Rt. where scouring is occurring along footing.

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**Bridge Notes**

**Inspection Notes**

TIME: 12:55  
TEMP: 46 degrees F  
WEATHER: Clear

**Scope:**

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

**Team Leader Inspection Check-off:**

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

**Inspection Team:**

**Inspection Date:** 12/13/2012

**Inspector:** MONDRAGONK

**Inspector (Team Leader)**

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