

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

Highway Number (ON) 5D: 105A

Mile Post (ON)11: 4.894 mi

Bridge Key: H-17-DA      Inspection Date: 1/17/2012      Sufficiency Rating: 100.0 Not Eligible

Rgn/Sectn 2E/2M:	24	Hist Signif 37:	5	UW Inspection Date 93B:	
Trans Region 2T:	01	Posting status 41:	A	SI Date 93C:	
County Code 3:	041	Service on/un 42A/B:	1 5	Bridge Cost 94:	\$ -1
EL PASO		Main Mat/Desgn 43A/B:	3 02	Roadway Cost 95:	\$ -1
Place Code 4:	00000	Appr Mat/Desgn 44A/B:	0 00	Total Cost 96:	\$ -1
non-city		Main Spans Unit 45:	1	Year of Cost Estimate 97:	-1
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	3	Horiz Clr 47:	72.7 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	75.6 ft	Defense Highway 100:	0
Directional Suffix 5E:	0	Str Length 49:	78.2 ft	Parallel Structure 101:	N
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 6.0 ft	Direction of Traffic 102:	2
DIRTY WOMAN CREEK		Width Curb to Curb 51:	72.7 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	81.7 ft	Highway System 104:	0
SH 105 ML		Deck Area:	6,389. sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	55.55	Year Reconstructed 106:	0000
		Min Undrclr Ref 54A:	N	Deck Type 107:	2
Prll Str No. 8P		Min Undrclr 54B:	0.0 ft	Wearing Surface 108A:	1
		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	N
Location 9:	328.05117409:	Min Lat Undrclr R 55B:	99.0 ft	Deck Protection 108C:	1
E OF I25/MONUMNT.INT.		Min Lat Undrclr L 56:	98.9993413:	Truck ADT 109:	2 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	0
BaseHiway Net12:	0	Super 59:	7	Pier Protection 111:	#
IrsinvRout 13A:	0000000000	Sub 60:	7	NBIS Length 112:	Y
IrssubRout No13B:	00	Channel/Protection 61:	8	Scour Critical 113:	8
Latitude 16:	39d 05' 34"	Culvert 62:	N	Scour Watch 113M:	
Longitude 17:	104d 51' 30"	Oprtng Rtg Method 63:	5 No rating	Future ADT 114:	580
Range18A:	67 W	Operating Rating 64:	36.0	Year of Future ADT 115:	2028
Township18B:	11S	Inv Rtnng Method 65:	5	CDOT Str Type 120A:	WG
Section18C:	14	Inventory Rating 66:	36.0	CDOT Constr Type 120B:	-1
Detour Length 19:	1.0 mi	Asph/Fill Thick 66T:	000 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	7	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	9	Scheduling Status 122B:	
Owner 22:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	39
Functional Class 26:	16	Posting 70:	5	Expansion Dev/Type124:	D
Year Built 27:	2004	Waterway Adequacy 7:	8	Brdg Rail Type/Mod 125A/B:	Y 0
Lanes on 28A:	4	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes Under 28B:	0	Type of Work 75A:		Str Rating Date 130:	1/1/1901
ADT 29:	260	Work Done By 75B:		Special Equip 133:	-1
Year of ADT 30:	2008	Length of Improvment 76:		Vert Clr N/E 134A/B/C:	X 99.99 0.00
Design Load 31:	9	Insp Team Indicator 90B:	WHITE TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0.00
Apr Rdwy Width 32:	73.0 ft	Inspector Name 90C:	STADIGM	Vertical Clr Date:	1/1/1901
Median 33:	0	Frequency 91:	24 months	Weight Limit Color: 139:	0
Skew 34:	0.00 °	FC Frequency 92A:	-1	Str Billing Type:	
Structure Flared 35:	0	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	1 1 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	36 "in"	FC Inspection Date 93A:			

Inspector Name: STADIGM

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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
35/1	Pcst Pnl Cnc Dk Bare	(SF)	6,389	100 %	6,389	0 %	0	0 %	0	0 %	0	0 %	0
106/1	Unpnt Stl Opn Girder	(LF)	530	100 %	530	0 %	0	0 %	0	0 %	0	0 %	0
215/1	R/Conc Abutment	(LF)	166	82 %	136	18 %	30	0 %	0	0 %	0	0 %	0
300/1	Strip Seal Exp Joint	(LF)	166	100 %	166	0 %	0	0 %	0	0 %	0	0 %	0
301/1	Pourable Joint Seal	(LF)	166	100 %	166	0 %	0	0 %	0	0 %	0	0 %	0
321/1	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	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)	235	100 %	235	0 %	0	0 %	0	0 %	0	0 %	0
338/1	Conc Curbs/SW	(LF)	156	100 %	156	0 %	0	0 %	0	0 %	0	0 %	0
340/1	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/1	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
358/1	Deck Cracking SmFlag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
359/1	Soffit Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
501/1	Channel Cond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
502/1	ChannProtMatCond	(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
35/1	Pcst Pnl Cnc Dk Bare	Numerous longitudinal and transverse cracks throughout the surface. Wearing in the wheel lines. Many small pop-outs in deck surface. Precast panels on the deck bottom, look good.
106/1	Unpnt Stl Opn Girder	Weathering steel girders. Girder D at Abutment 2, has R2 corrosion on the top flange and web, cause by moisture intrusion through the abutment back wall and deck haunch; (see 2006, and 2012 PHOTOS).
215/1	R/Conc Abutment	Horizontal cracks at construction joints and deck haunches with efflor. and some rust stains, A2 being the worst. More prevalent in A2, Bay D near Girder D; (see 2006 PHOTO).
300/1	Strip Seal Exp Joint	At sleeper slab joints. Both are full of sand and are open approximately 2 inches.
301/1	Pourable Joint Seal	Between abutments and approach slabs. Some D-cracks along both sides of the joints that have been epoxy sealed.
321/1	R/Conc Approach Slab	Longitudinal, shrinkage, and transverse cracks in approach surfaces.
325/1	Slope Prot/Berms	Rock rip rap. Looks good.
326/1	Bridge Wingwalls	U-type abutment wing walls look good. Some hairline vertical cracks at each.
334/1	Metal Rail Coated	Galvanized Type Y railing, in good condition. Coated chain link fence special (on the Right side only), mounted to the outside curb face, looks good.

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Elem/Env	Description	Element Notes
338/1	Conc Curbs/SW	Typical vertical, shrinkage, and transverse cracks. A 6 foot wide sidewalk on the Right side only, covered with gravel during the 2012 inspection.
340/1	Superstr Cnc Coating	On overhangs, and curbs. Looks OK.
341/1	Substr Conc Coating	On abutments and wing walls. Looks OK.
358/1	Deck Cracking SmFlag	See Element 35 for comments.
359/1	Soffit Smart Flag	Typical transverse cracks at overhangs, some with efflor.
501/1	Channel Cond	Dirty Woman Creek. A small drainage creek with good alignment. Frozen during the 2012 inspection.
502/1	ChannProtMatCond	Medium sized rock riprap expands across entirely between abutments. Looks good.
504/1	BankCond	The creek is lined with silt fences upstream, and downstream. Large trees, bushes, cattails, and grass.

**Maintenance Activity Summary**

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
353.09	Br Dk Rpr	1/25/2006	-1	2014	35000

Overlay candidate, with a waterproofing membrane. Contact Staff Bridge.

353.08	Br Dk Rpr	1/25/2006	-1	2014	5000
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Epoxy seal the cracks in the concrete deck surface.

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**Bridge Notes**

**Inspection Notes**

TIME: 10:40    TEMP: 20    WEATHER: Partly Cloudy

**Scope:**

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

Inspector: STADIGM

Inspection Team:

Inspection Date: 01/17/2012

\_\_\_\_\_  
Inspector

\_\_\_\_\_  
Inspector