

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

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: 209.095 mi

Bridge Key: F-16-OE Inspection Date: 6/16/2011 Sufficiency Rating: 89.7 Not Eligible

Rgn/Sectn 2E/2M:	68	Hist Signif 37:	5	UW Inspection Date 93B:	
Trans Region 2T:	02	Posting status 41:	A	SI Date 93C:	
County Code 3:	031	Service on/un 42A/B:	1 0	Bridge Cost 94:	\$ 0
DENVER		Main Mat/Desgn 43A/B:	6 5	Roadway Cost 95:	\$ 0
Place Code 4:	20000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
DENVER		Main Spans Unit 45:	4	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	1	Horiz Clr 47:	38.0 ft	Border Bridge Number 99:	
Level of Service 5C:	7	Max Span 48:	150.9 ft	Defense Highway 100:	1
Directional Suffix 5E:	0	Str Length 49:	539.1 ft	Parallel Structure 101:	N
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
RAMP TO I 25 SBND R		Width Curb to Curb 51:	38.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	41.0 ft	Highway System 104:	1
EB6 RMP. TO I25 SB		Deck Area:	22,109.1 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	0000
		Min Undrclr Ref 54A:	N	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	0.0 ft	Wearing Surface 108A:	6
		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	2
Location 9:	328.05117409:	Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	1
I25/US6 INTCHNG IN DENVER		Min Lat Undrclr L 56:	0	Truck ADT 109:	5 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	1
BaseHiway Net12:	0	Super 59:	6	Pier Protection 111:	#
IrsinvRout 13A:	0000000000	Sub 60:	7	NBIS Length 112:	Y
IrsSubRout No13B:	00	Channel/Protection 61:	N	Scour Critical 113:	N
Latitude 16:	39d 43' 26"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	105d 00' 48"	Oprtg Rtg Method 63:	5 No rating	Future ADT 114:	26,275
Range18A:	68 W	Operating Rating 64:	77.1	Year of Future ADT 115:	2025
Township18B:	68	Inv Rtg Method 65:	5	CDOT Str Type 120A:	CBGC
Section18C:	9	Inventory Rating 66:	46.0	CDOT Constr Type 120B:	10
Detour Length 19:	2.0 mi	Asph/Fill Thick 66T:	002 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	6	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	9	Scheduling Status 122B:	
Owner 22:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	7
Functional Class 26:	11	Posting 70:	5	Expansion Dev/Type124:	D
Year Built 27:	1987	Waterway Adequacy 7:	N	Brdg Rail Type/Mod 125A/B:	R 0
Lanes on 28A:	1	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes Under 28B:	0	Type of Work 75A:		Str Rating Date 130:	9/14/1998
ADT 29:	21,020	Work Done By 75B:		Special Equip 133:	-1
Year of ADT 30:	2005	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0.00
Design Load 31:	6	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0.00
Apr Rdwy Width 32:	42.0 ft	Inspector Name 90C:	TATALASKIT	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:	U
Structure Flared 35:	1	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: TATALASKIT

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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
26/4	Conc Deck/Coatd Bars	(SF)	22,103	0 %	0	0 %	0	100 %	22,103	0 %	0	0 %	0
104/4	P/S Conc Box Girder	(LF)	1,610	91 %	1,460	9 %	150	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	120	100 %	120	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	41	100 %	41	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	31	52 %	16	48 %	15	0 %	0	0 %	0	0 %	0
307/4	Modular Expansion Jt	(LF)	43	100 %	43	0 %	0	0 %	0	0 %	0	0 %	0
314/4	Pot Bearing	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
325/4	Slope Prot/Berms	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	1,078	100 %	1,076	0 %	0	0 %	2	0 %	0	0 %	0
340/4	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	2 inches of newer asphalt overlay. Cannot see bottom of slab due to forms left in place. See photo. Overhangs have no apparent cracks.
104/4	P/S Conc Box Girder	Int.: Left web of 2A has hairline to light horizontal cracking. Entered cells at spans 2, 3, and 4 in 2009 inspection. No significant changes to report. Saw only light vert cracks at junct of web haunch and the P5 end. No key for lock in Cell #1 during 2009. Exter.: 1/32 inch wide vert. crack on right side of Span 4 at junct. of web and solid end near Pier 5, 7-2001 photo, narrows as it goes up. Also, hairline random cracks with light efflor. on bottom flange near P5. Just a light vert. crack on left side of box girder at junction with solid end at P5.
210/4	R/Conc Pier Wall	Look good.
215/4	R/Conc Abutment	Abut. 1 is the substruc. unit nearest I-25. Light diagonal cracks radiate out from bottom corners of girders. Cracking 1/16 inch along junction with girder.
234/4	R/Conc Cap	At Pier 5 only. Some light random cracks with light efflor.
307/4	Modular Expansion Jt	Joint at P5 has 3 glands and is open 9.75 inches i-i and filled with sand. No apparent leaking. Few longit. cracks, minor spalls, and light wearing of concrete. Sounds very solid from below.
314/4	Pot Bearing	Located at pier 5. Looks good.
325/4	Slope Prot/Berms	Dirt slope at Abutment 1. Looks good.

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326/4	Bridge Wingwalls	U-type wings at Abut. 1. There are some 2 inch + gaps from ends of wingwalls to retaining walls. These have been grouted and grout is cracked up. OK for the time being.
331/4	Conc Bridge Railing	Jersey barriers have several typ. light vert. cracks. 1.5 foot long spall with exposed rebar in top left rail in Span 1. Scuff marks several spots.
340/4	Superstr Cnc Coating	Looks good.
341/4	Substr Conc Coating	Looks good.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
356.01	Curb & RI	7/10/2001	-1	2013	250

Patch spall with exposed rebar in left rail above span 1.

398.00	Misc Br Wk	6/15/2005	-1	2013	250
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Clear out drains, especially at P3 & P5 rt. side.
 Consider replacing access doors with lighter doors.

Bridge Notes

Heavy round access doors for spans 2 - 4 are above landscaped area that is sloped, but can be reached with van lift bucket.
 Access at A1 is without ladder but there is a large padlock marked No. 15.

Utilities: - 4 inch inside Dia. galv. pipe in cell A.

Washing below Lt. rear corner of approach roadway slab.

Transition rail @ #1 Lt. wing is cracking and breaking up (PHOTO 6/11).

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Inspection Notes

Time: 10:30
Temperature: 75 Degrees
Weather: Clear

Scope:

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

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 06/16/2011

Inspector

Inspector