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

Mile Post (ON)11: 0.000 mi

Bridge Name: CSG-F.85-08.23 Inspection Date: 4/12/2012 Sufficiency Rating: 84.4 Not Eligible CSG-F.85-08.2 Hist Signif 37: 5 UW Inspection Date 93B NBI Reporting ID: A Posting status 41: SI Date 930 Rgn/Sectn 2E/2M: 24 Service on/un 42A/B: 1 5 Bridge Cost 94: \$0 Trans Region 2T 01 Main Mat/Desgn 43A/B: 5 02 Roadway Cost 95: \$0 County Code 3: 041 Appr Mat/Desgn 44A/B: 0 0 Total Cost 96: \$0 EL PASO Main Spans Unit 45: 4 Year of Cost Estimate 97: 16000 Place Code 4: Approach Spans 46: 0 Brdr Brdg Code/% 98A/B COLORADO SPRINGS Horiz Clr 47: 84.0 ft Border Bridge Number 99 Rte.(On/Under)5A: Defense Highway 100: 69.6 ft Max Span 48: Signing Prefix 5B: 288.0 ft N Parallel Structure 101: Str Length 49: Level of Service 5C: 1 2.0 ft Direction of Traffic 102 2 Curb Wdth L/R 50A/B: 2.0 ft Directional Suffix 5E: 0 Width Curb to Curb 51 84.0 ft Temporary Structure 103 Feature Intersected 6: 88.0 ft Width Out to Out 52: Highway System 104: 0 FOUNTAIN CREEK 25,344. sq. ft Deck Area: Fed Lands Hiway 105: Facility Carried 7: 99.99 0000 Min Clr Ovr Brdg 53: Year Reconstructed 106 CIMARRON STREET Deck Type 107 Min Undrclr Ref 54A: N 1 Alias Str No.8A: 0.0 ft 6 Min Undrclr 54B: Wearing Surface 108A N 0 Min Lat Clrnce Ref R 55A Membrane 108B: Prll Str No. 8P Min Lat Undrclr R 55B 0 0.0 ft Deck Protection 108C 6 % Min Lat Undrclr L 56: 0.0 ft Truck ADT 109: Location 9: 6 Trk Net 110: 0 Deck 58 0.1 MI E OF I-25 6 # Pier Protection 111: Super 59: 328.1 ft Max Clr 10: 5 Y Sub 60: NBIS Length 112: BaseHiway Net12: 7 Channel/Protection 61: Scour Critical 113: IrsinvRout 13A 0000000000 Culvert 62: N Scour Watch 113M: IrssubRout No13B: 00 1 LF Load Facto Oprtng Rtg Method 63 Future ADT 114: 43,983 38d 49' 41" Latitude 16: Operating Rating 64: 62.8 Year of Future ADT 115 2029 104d 50' 03" Longitude 17 Inv Rtng Method 65: CDOT Str Type 120A: CPG Range18A: 67 W 37.7 Inventory Rating 66: CDOT Constr Type 120B 27 Township18B: 14S 002 "in" Asph/Fill Thick 66T Inspection Indic 122A: 13 Section18C: 5 Str. Evaluation 67: Inspection Trip 122AA Detour Length 19: 1.0 mi 9 -1 Deck Geometry 68: Inspection Schedule ID: Toll Facility 20: N Undrclr Vert/Hor 69: 0 Maintenance Patrol 123 Custodian 21: 4 5 Posting 70: Expansion Dev/Type124 Owner 22: 4 Waterway Adequacy 7 8 Brdg Rail Type/Mod 125A/B 0 Functional Class 26: 16 Approach Alignment 72: 8 Posting Trucks 129A/B/C 0 0 Year Built 27: 1959 38 12/8/1996 Type of Work 75A: Str Rating Date 130: Lanes on 28A: 5 Work Done By 75B: Special Equip 133: Lanes Under 28B: 288.0 ft Vert Clr N/E 134A/B/C: Length of Improvment 76 -1.00 -1.00 ADT 29: 18,326 Stantec Vert CIr S/W 135A/B/C Insp Team Indicator 90B Year of ADT 30: -1.00 -1.00 2009 CIOFFREDIN Inspector Name 90C: Vertical Clr Date: Design Load 31: 24 months Apr Rdwy Width 32: Frequency 91: Weight Limit Color: 139 0 84.0 ft Str Billing Type: IIC FC Frequency 92A: Median 33: OFFSYS UW Frequency 92B: Userkey 1 - System: 15.00 ° Skew 34 SI Frequency 92C: Userkey 7-Update Indic Structure Flared 35: FC Inspection Date 93/ 0 Sfty Rail 36a/b/c/d: 0 0 0 43 "in' Rail ht36h:

Inspector Name:

insp007b_inspection_sia_english

: CIOFFREDIN

Structure ID: CSG-F.85-08.23

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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)	25,344	0 %	0	100 %	25,344	0 %	0	0 %	0	0 %	0
109/1	P/S Conc Open Girder	(LF)	4,032	99 %	3,978	1 %	48	0 %	6	0 %	0	0 %	0
205/1	R/Conc Column	(EA)	18	22 %	4	72 %	13	6 %	1	0 %	0	0 %	0
215/1	R/Conc Abutment	(LF)	182	90 %	164	7 %	12	3 %	6	0 %	0	0 %	0
234/1	R/Conc Cap	(LF)	273	100 %	273	0 %	0	0 %	0	0 %	0	0 %	0
306/1	Asphaltic Plg Exp Jt	(LF)	273	81 %	221	19 %	52	0 %	0	0 %	0	0 %	0
311/1	Moveable Bearing	(EA)	56	86 %	48	14 %	8	0 %	0	0 %	0	0 %	0
313/1	Fixed Bearing	(EA)	56	86 %	48	14 %	8	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	75 %	3	25 %	1	0 %	0	0 %	0	0 %	0
334/1	Metal Rail Coated	(LF)	576	100 %	576	0 %	0	0 %	0	0 %	0	0 %	0
338/1	Conc Curbs/SW	(LF)	864	82 %	709	18 %	155	0 %	0	0 %	0	0 %	0
359/1	Soffit Smart Flag	(EA)	1	0 %	0	0 %	0	100 %	1	0 %	0	0 %	0
371/1	Traff Imp Dck SmFlag	(LF)	12	100 %	12	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	0 %	1	0 %	0	0 %	0	0 %	0	0 %	0
504/1	BankCond	(EA)	1	0 %	1	0 %	0	0 %	0	0 %	0	0 %	0
505/1	Debris Smart Flag	(EA)	1	0 %	1	0 %	0	0 %	0	0 %	0	0 %	0
520/1	AppRdAlign	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
600/1	Genl Remarks	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes				
13/1	Unp Conc Deck/AC Ovl	(2) 2 sq ft pothole 10 ft from east end of deck in westbound lane near center median patched. Deck had overlay added between 2008 and 2010 inspections - Minor ruts in wheel lines. Longitudinal cracks forming. No apparent membrane.				
109/1	P/S Conc Open Girder	Moderate spalls at west end of Girder 5N with reinforcement exposed and corroded (R2). Char stains on girders near abutments. Scaling and efflorescence staining on fascia girders at bents due to drainage, some with cracking and possible delaminations.				
205/1	R/Conc Column	Columns with debris walls in between - Previous moderate to heavy spalls with exposed rebar at columns 2F, 3A, 3B, 3F, 4A and 4F. Previous large cracks and spalls in columns 2A, 2B, 2C, 2E, 3C, 3E and 4B. Exposed and corroded reinforcing on downstream noses of 2F & 3F, nearly full height. All columns have been rehabbed/patched between 2008 and 2010 inspections - Light cracks and light to moderate efflorescence in all patched areas. Column 2F exhibits large cracking, delaminations and rust staining due to seepage through joint and through curb drainage. Scupper extensions are not sealed will allowing continued runoff onto super and substructure. Base of debris walls and unformed concrete exposed at P3.				

insp007b_inspection_sia_english Structure ID: CSG-F.85-08.23

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Highway Number (ON) 5D: 00000 U

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Elem/Env	Description	Element Notes
215/1	R/Conc Abutment	Previous horizontal cracks=6 ft, 3 ft, 2 ft and 6 ft at southwest, northwest, northeast and southeast corners have been patched at southeast only between 2008 and 2010 inspections - Light cracks with light efflorescence on patches. 2012 - Heay cracking with efflorescence and rust staining at southwest below Girder N, likely due to seepage through joint above.
234/1	R/Conc Cap	Previously 25 LF of spalls with exposed reinforcement some with section loss, in Bent 2 cap, 38 LF in Bent 3 cap and 11 LF in Bent 4 cap, 32 LF of spalls, delaminations and cracks in Bent 2 cap, 12 LF in Bent 3 cap and 10 LF in Bent 4 cap at various locations throughout. Spalls and dealmination under most all girder locations, approximately 2 ft length at each location. All caps have been rehabbed/patched bewteen 2008 and 2010 inspections, all exhibits dense pattern cracks with light efflorescence in all patches.
306/1	Asphaltic Plg Exp Jt	Replaced expansion joints at bents between 2008 and 2010 inspections. Isolated areas of debonding failure, cracking. 19 ft at P4, 12 ft at P3, 21 ft at P2.
311/1	Moveable Bearing	All bearing plates have been cleaned and painted between 2008 and 2010 inspections.
313/1	Fixed Bearing	All bearing plates have been cleaned and painted between 2008 and 2010 inspections. Fascia bearings exhibit reactivating corrosion and paint failure.
325/1	Slope Prot/Berms	Concrete rubble at east abutment and riprap at west abutment. Boulder-sized riprap placed on west side of Bent 4 between 2008 and 2010 inspections.
326/1	Bridge Wingwalls	Spall at rail post connection at northeast wingwall.
334/1	Metal Rail Coated	All rail repaired and repainted between 2008 and 2010 inspections.
338/1	Conc Curbs/SW	155 LF of light spalls at curb faces and along median. East end of south curb is cracked at end post with an impending spall. 2 ft spall with reinforcement exposed on south side of median curb in span 3 (note the adjoining horizontal crack indicating corroded rebar continues). Light longitudinal and pattern cracking in top surface throughout. Areas of scaling and horizontal cracking in sidewalk face, may indicate corroding rebar and future spalling/delamination.
359/1	Soffit Smart Flag	Cracks with efflorescence under median and sidewalk area and several other locations. Char stains on soffit near both abutments. Longitudinal cracks with light spalls at several locations with exposed and corroded (R2-R3) reinforcement along edges of deck. Areas of saturation and efflorescence corresponding to the curb face. Heavy chloride staining and efflorescence full length of median. Cracking and spalling with exposed rebar and active leakage at joints over bents. Longitudinal crack throughout majority of south and locations of north soffit edge indicate corroded rebar, worse near joints.
371/1	Traff Imp Dck SmFlag	Previously missing and bent rails at south side (Date of original impact is unknown) have been repaired between 2008 and 2010 inspections.
501/1	Channel Cond	Sand, silt and rock channel.
502/1	ChannProtMatCond	Drop structures on both sides of bridge. Boulder-sized riprap added at upstream end of Bent 4.
504/1	BankCond	Trees and moderate to heavy vegetation on banks.
505/1	Debris Smart Flag	Moderate amount of debris at nose and along west side of Bent 2.
520/1	AppRdAlign	Asphalt - longitudinal cracks and rutting in left most westbound lane in east approach. Transverse crack at A5, asphalt breaking up and impending potholes in left and right lanes. Transverse crack at A1, asphalt breaking up and impending potholes in both lanes (eastbound). Curb and gutter has settled and breaking at southwest (22 ft).
	Genl Remarks	Utility conduit running along south bridge rail.

Colorado Department of Transportation

Highway Number (ON) 5D: 00000 U

Mile Post (ON)11: 0.000 mi

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Maintenance Activity Summary

MMS Activ	1	Recommended			Est Cost
	Cln & Pnt	4/12/2012	3	2014	0
Clean and	paint steel tubular rail.				
306.00	Railing	3/27/2008	5	2014	0
	quate bridge and approach	rails.			
200.31	Min Repair	4/12/2012	3	2014	0
	ncrete repair of Column 2 elow median.	[−] , abutment at so	uthwes	t and northeas	t, and soffit at fascias
353.04	Br Dk Rpr	4/12/2012	3	2014	0
	sphalt, install compression (wrapped up the face of c				d medians, waterproof
156.00	Surface	4/12/2012	3	2014	0
Seal transv	verse cracks at abutments, n bridge deck and interface	locations of debo	onding	failure in plug j	oints, longitudinal

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Structure Inspection and Inventory Report (English Units)

Maintenance Activity Summary

MMS Activ	itv Des	cription	Recommended	Status	Target Year	Est Cost
157.00	Exp Jts		4/12/2012	3	2014	0
Clean and	reseal joir	nts in curbs and m	nedians at piers	and abı	utments.	
353.04	Curb & RI		4/12/2012	3	2014	0
		ant to median, cur		ks. Con	crete repairs r	nay be necessary due
206.01	Debri		4/12/2012	3	2014	0
Remove de	ebris from	nose of P3.				
358.03	Substr		4/12/2012	3	2014	0
		prap around P3.				

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Bridge Notes

Inspection Notes

Date 4-12-2012 -			
Temp: 57 Degrees	Time: 10:15 AM	Weather: Clear	

Scope: V NBI: V Eleme	nt: 🗌 Underwater:	Fracture Critical:	Other:	Type: Regular NBI
Team Leader Inspe	ction Check-off:			
FCM's			Vertical Clea	arance
Posting Signs			Stream Bed	Profile
Essential Repair	Verification			
Inspection Team:	04/12/2012			
Inspection Date:	04/12/2012	Inspector: CIO	FFREDIN	
		Inspector (Team	Leader)	

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