

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

Highway Number (ON) 5D: 025A

Mile Post (ON)11: 147.940 mi

Bridge Name: I-17-NP Inspection Date: 8/8/2012 Sufficiency Rating: 92.6 Not Eligible

NBI Reporting ID:	I-17-NP	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:	\$ -1
County Code 3:	041	Main Mat/Desgn 43A/B:	6 02	Roadway Cost 95:	\$ -1
EL PASO		Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ -1
Place Code 4:	16000	Main Spans Unit 45:	4	Year of Cost Estimate 97:	-1
COLORADO SPRINGS		Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Rte.(On/Under)5A:	1	Horiz Clr 47:	38.0 ft	Border Bridge Number 99:	
Signing Prefix 5B:	1	Max Span 48:	114.7 ft	Defense Highway 100:	1
Level of Service 5C:	7	Str Length 49:	395.4 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:	1
Feature Intersected 6:		Width Curb to Curb 51:	38.0 ft	Temporary Structure 103:	
MONUMENT CREEK		Width Out to Out 52:	42.0 ft	Highway System 104:	1
Facility Carried 7:		Deck Area:		Fed Lands Hiway 105:	0
I 25 SBND RAMP		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	-1
Alias Str No.8A:		Min Undrclr Ref 54A:	N	Deck Type 107:	1
		Min Undrclr 54B:	100.0 ft	Wearing Surface 108A:	1
Pril Str No. 8P		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	0
		Min Lat Undrclr R 55B:	327.8 ft	Deck Protection 108C:	1
Location 9:		Min Lat Undrclr L 56:	327.8 ft	Truck ADT 109:	7 %
In Colorado Springs		Deck 58:	8	Trk Net 110:	1
Max Clr 10:	328.1 ft	Super 59:	8	Pier Protection 111:	#
BaseHiway Net12:	0	Sub 60:	8	NBIS Length 112:	Y
IrsinvRout 13A:	0000000000	Channel/Protection 61:	8	Scour Critical 113:	8
IrrsubRout No13B:	00	Culvert 62:	N	Scour Watch 113M:	
Latitude 16:	38d 54' 48"	Optprtng Rtg Method 63:	5 No rating	Future ADT 114:	10,000
Longitude 17:	104d 49' 09"	Operating Rating 64:	936.0	Year of Future ADT 115:	2025
Range18A:	66W	Inv Rtgng Method 65:	5	CDOT Str Type 120A:	CPGC
Township18B:	13S	Inventory Rating 66:	936.0	CDOT Constr Type 120B:	03
Section18C:	18	Asph/Fill Thick 66T:	000 "in"	Inspection Indic 122A:	
Detour Length 19:	1.0 mi	Str. Evaluation 67:	8	Inspection Trip 122AA:	
Toll Facility 20:	3	Deck Geometry 68:	9	Inspection Schedule ID:	-1
Custodian 21:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	-1
Owner 22:	1	Posting 70:	5	Expansion Dev/Type124:	D
Functional Class 26:	11	Waterway Adequacy 7:	8	Brdg Rail Type/Mod 125A/B:	Y 0
Year Built 27:	2008	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes on 28A:	2	Type of Work 75A:		Str Rating Date 130:	1/1/1901
Lanes Under 28B:	0	Work Done By 75B:		Special Equip 133:	
ADT 29:	5,455	Length of Improvment 76:		Vert Clr N/E 134A/B/C:	X 99.99 0
Year of ADT 30:	2005	Insp Team Indicator 90B:	WHITE TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0
Design Load 31:	9	Inspector Name 90C:	CHURCHESK	Vertical Clr Date:	5/5/1905
Apr Rdwy Width 32:	42.0 ft	Frequency 91:	24 months	Weight Limit Color: 139:	
Median 33:	0	FC Frequency 92A:		Str Billing Type:	IIA
Skew 34:	40.00 °	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:	34 "in"				

Inspector Name: CHURCHESK

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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
23/1	Bare Conc Dk w/Brs	(SF)	16,607	100 %	16,607	0 %	0	0 %	0	0 %	0	0 %	0
109/1	P/S Conc Open Girder	(LF)	1,560	100 %	1,554	0 %	6	0 %	0	0 %	0	0 %	0
210/1	R/Conc Pier Wall	(LF)	36	100 %	36	0 %	0	0 %	0	0 %	0	0 %	0
215/1	R/Conc Abutment	(LF)	110	100 %	110	0 %	0	0 %	0	0 %	0	0 %	0
234/1	R/Conc Cap	(LF)	155	100 %	155	0 %	0	0 %	0	0 %	0	0 %	0
300/1	Strip Seal Exp Joint	(LF)	110	100 %	110	0 %	0	0 %	0	0 %	0	0 %	0
301/1	Pourable Joint Seal	(LF)	110	95 %	105	5 %	5	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)	790	100 %	790	0 %	0	0 %	0	0 %	0	0 %	0
338/1	Conc Curbs/SW	(LF)	790	100 %	790	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
343/1	Pole Attachment	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
358/1	Deck Cracking SmFlag	(EA)	1	0 %	0	100 %	1	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
23/1	Bare Conc Dk w/Brs	Tined concrete surface with light diagonal, transverse, and shrinkage cracking (open to 1/32 inch).
109/1	P/S Conc Open Girder	Minor chips along the bottom flange of some girders.
210/1	R/Conc Pier Wall	Two walls (6 ft. wide) at each pier. Few minor scrapes.
215/1	R/Conc Abutment	Few light vertical cracks.
234/1	R/Conc Cap	Good condition.
300/1	Strip Seal Exp Joint	At both sleeper slabs. Both open 2½ inches and full of sand.
301/1	Pourable Joint Seal	At both abutments. Some sealant is missing in #2 lane at Abutment 5.
321/1	R/Conc Approach Slab	Some light diagonal and longit. cracks (open to 1/32 inch).
325/1	Slope Prot/Berms	Dirt slopes covered with erosion control netting.

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Elem/Env	Description	Element Notes
326/1	Bridge Wingwalls	U-type abutment wingwalls. Typical hairline vertical cracks. Several areas of patches. Wingwalls were not painted.
334/1	Metal Rail Coated	Gavanized Type Y rail. Rail height varies (34 inch minimum).
338/1	Conc Curbs/SW	Typical vertical cracks, some with efflorescence. Few minor chips on exterior side of left curb near Abutment 1. Curb height varies (average of 13 inches).
340/1	Superstr Cnc Coating	On curbs only. Peeling.
343/1	Pole Attachment	Two light standards mounted on right side (one near Abutment 1, and one at Pier 4). Good condition.
358/1	Deck Cracking SmFlag	See Element 23 comments.
359/1	Soffit Smart Flag	Few transverse cracks with efflorescence in overhangs.
501/1	Channel Cond	Monument Creek. Good alignment. Flows in Span 3.
502/1	ChannProtMatCond	Grouted rock riprap check dam approx. 50 ft. downstream, then grouted rock riprap extends on banks to a 2nd check dam approx. 200 ft. downstream.
504/1	BankCond	Lined with trees, willows, grass, and bushes.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
398	Signs	8/9/2010	-1	2015	100

Erect structure Identification sign that has fallen down.

352.01	Cln & Wash	8/9/2010	-1	2015	500
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Clean out plugged deck drains.

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Bridge Notes

10 Inch Ø drain pipe suspended from deck in Bay A of Spans 2 - 4.

According to the plans "A COLORED STRUCTURAL CONCRETE COATING FINISH WILL BE REQUIRED, AS SHOWN ON THE PLANS, ON EXPOSED CONCRETE SURFACES." The plans only show coating on the curbs and outside face of deck.

Inspection Notes

Temperature: 87°
Time: 2:15
Weather: Partly Cloudy

Scope:

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

Team Leader Inspection Check-off:

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

Inspection Team:

Inspection Date: 08/08/2012

Inspector: CHURCHESK

Inspector (Team Leader)