Highway Number (ON) 5D: 025A

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

Mile Post (ON)11: 156.936 mi

Bridge Key: H-17-M Inspection Date: 12/14/2010 Sufficiency Rating: 43.0 SD Hist Signif 37: 5 Rgn/Sectn 2E/2M: 24 IW Inspection Date 93B A Trans Region 2T 01 Posting status 41: SI Date 93C County Code 3: 041 Service on/un 42A/B: 1 Bridge Cost 94: \$0 EL PASO Main Mat/Desgn 43A/B 19 Roadway Cost 95: \$0 Place Code 4: 00000 Appr Mat/Desgn 44A/B: 0 0 Total Cost 96: \$0 2 non-city Main Spans Unit 45: Year of Cost Estimate 97: Rte.(On/Under)5A: Approach Spans 46: 0 Brdr Brdg Code/% 98A/B: Horiz Clr 47: Signing Prefix 5B: 38.0 ft Border Bridge Number 99: Defense Highway 100: Max Span 48 10.0 ft Level of Service 5C: Directional Suffix 5E: 21.0 ft Parallel Structure 101: N Str Length 49: 0 0.0 ft Direction of Traffic 102: 2 Feature Intersected 6: Curb Wdth L/R 50A/B: 0.0 ft DRAW Width Curb to Curb 51 Temporary Structure 103 0.0 ft 143.0 ft Facility Carried 7: Width Out to Out 52: Highway System 104: 125 ML 3.003.1 sq. ft Deck Area: Fed Lands Hiway 105: Min Clr Ovr Brdg 53: Min Undrclr Ref 54A: 99.99 1953 Year Reconstructed 106 Alias Str No.8A: Deck Type 107: N N Prll Str No. 8P 0.0 ft Wearing Surface 108A N Min Undrclr 54B Ν N Min Lat Clrnce Ref R 55A: Membrane 108B: 0.0 ft N Min Lat Undrclr R 55B: Deck Protection 1080 Location 9: 6.7 MI N OF JCT SH 83 ML Min Lat Undrclr L 56: 0 Truck ADT 109: 12 % Max Clr 10: 99.99 N Trk Net 110: 1 Deck 58 Ν # BaseHiway Net12: Pier Protection 111: Super 59: Ν Y 00000025A IrsinvRout 13A Sub 60: NBIS Length 112: 7 IrssubRout No13B: 00 Channel/Protection 61 Scour Critical 113: 8 39d 02' 26" Culvert 62 4 Latitude 16: Scour Watch 113M: 104d 50' 29" Oprtng Rtg Method 63: 5 No rating Longitude 17 Future ADT 114: 100,951 Range18A: 67 W Operating Rating 64: 36.0 Year of Future ADT 115 2028 Township18B: 67 Inv Rtng Method 65: CDOT Str Type 120A: CBC 36.0 Section18C: Inventory Rating 66: CDOT Constr Type 120 0. Asph/Fill Thick 66T Detour Length 19: 146 "in" Inspection Indic 122A: 7.0 mi Toll Facility 20: 4 Str. Evaluation 67: Inspection Trip 122AA N Custodian 21: Deck Geometry 68: Scheduling Status 122B N Owner 22: Undrclr Vert/Hor 69: Maintenance Patrol 123 8 5 Functional Class 26: Posting 70: Expansion Dev/Type124 6 11 Waterway Adequacy 7 7 Brdg Rail Type/Mod 1 Year Built 27: FB 1926 0 8 Posting Trucks 129A/B/C 0 0 Approach Alignment 72 Lanes on 28A 4 0 1/1/1901 Type of Work 75A: Str Rating Date 130: Lanes Under 28B: ADT 29: 64,300 Work Done By 75B: Special Equip 133: 0.0 ft Vert Clr N/E 134A/B/C: Year of ADT 30: Length of Improvment 76: X 99.99 0.00 2008 **RED TEAM** Vert Clr S/W 135A/B/C X 99.99 Design Load 31: Insp Team Indicator 90B 0.00 Inspector Name 90C: TATALASKIT Vertical Clr Date: 1/1/1901 Apr Rdwy Width 32: 76.0 ft 24 months Median 33: Frequency 91: Weight Limit Color: 139 0 Str Billing Type: 0.00 Skew 34: FC Frequency 92A -1 U Structure Flared 35: ONSYS UW Frequency 92B: -1 Userkey 1 - System: Userkey 7-Update Indic 1 1 1 1 SI Frequency 920 -1 Sfty Rail 36a/b/c/d: 27 "in' FC Inspection Date 93A Rail ht36h:

Inspector Name:

TATALASKIT

insp007b_inspection_sia_english Structure ID: H-17-M

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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
241/1	Concrete Culvert	(LF)	286	76 %	216	3 %	10	3 %	10	17 %	50	0%	C
327/1	Culvert Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	C	0 %	C	0%	C
335/1	Culvert Headwalls	(EA)	2	100 %	2	0 %	0	0 %	C	0 %	C	0%	C
501/1	Channel Cond	(EA)	1	100 %	1	0 %	0	0 %	C	0 %	C	0%	0
504/1	BankCond	(EA)	1	100 %	1	0 %	0	0 %	C	0 %	C	0%	0
510/1	Waterway Adequ.	(EA)	1	100 %	1	0 %	0	0 %	C	0 %	C	0%	C

Elem/Env	Description	Element Notes				
241/1	Concrete Culvert	Base of divider wall in original 50 ft. long section badly spalled (cell 2 side) at & below groundline (6 ft. below topslab). Spalling as deep as 4 inches probably most or all of 50 ft. length but too extensive to dig out, it extended the 10 ft. we dug. Water ponding at deter. area from past higher flow, and continue to deteriorate wall #2, and seepage evident through wall in Cell #1 during 2010 inspection. See PHOTOS.				
		We dug down 1.5 feet and continued to find friable concrete easily broken off. It may extend the 4 feet down to the bottom slab but water seepeing into digging hole prevented further investigation.				
		Spalling was behind the vertical rebars, which are highly corroded, may have lost as much as 25% section.				
		Similar spalling on cell 1 side of this 12 inch thick divider wall but not quite as deep, only about 2 inches from face of concrete. This makes depth of spalling as much as 50 % for possibly 50 feet along the base and the rebars lost up to 25% section too.				
		Shallow spalling along these vertical bars above the serious spalling due to inadequate concrete cover.				
		Widened portion of culvert looks OK (143-50=93 ft $= 65\%$) 72 ft on the right, 21 feet on the left.				
		Light scale on top slab around formed drop inlet near center of cell 2 (origianl section)				
327/1	Culvert Wingwalls	Joint material slightly loose in all wing joints.				
335/1	Culvert Headwalls	Few light vertical cracks some with efflorescence.				
501/1	Channel Cond	Draw. Channel alignment OK, but is heavily overgrown with willows and bushes.				
		24 Inch CMP just upstream to allow flow under pedestrian path. Ponds some at inlet of both cells.				
		Most flow in Cell #2. Water flowing in December 2010.				
504/1	BankCond	Gentle slopes. Few trees, and grassy.				
510/1	Waterway Adequ.	Up to 4.5 ft of silt / sediment in cell 1 and as high as 3.5 feet in cell 2.				

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Maintenance Activity Summary

MMS Activity Description	Recommended	d Status Target Year	Est Cost
**358.05 Substr	1/9/2009	-1 2012	10000

Repair badly spalled wall along base of divider wall. Spalled as deep as 4 inches for probably around 50 feet long probably 3 feet down, but needs to be dugout and water will need to be redirected to adjacent cell in this culvert. NOT REPAIRED AS OF 2010 INSPECTION.

Bridge Notes

Flex-beam flattening energy absorption devices on ends of approach rails, but not on exit rails, OK.

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Inspection Notes

Time :-) 3:10

Temperature :-) 60 degrees F.

Weather :-) P/C

Scope:

INBI:

Element:

Underwater:

Fracture Critical:

Other:

Type:

Regular NBI

Inspector:

Inspection Date: 12/14/2010

Inspector

Inspector