

COLORADO DEPARTMENT OF TRANSPORTATION  
OFF-SYSTEM BRIDGE INSPECTION PROGRAM  
ESSENTIAL BRIDGE REPAIRS DOCUMENTATION FORM

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Structure Number: 083000N01.80016 (MTZ-016)

Feature Intersected: Alkali Canyon

County: Montezuma

Road on Bridge: County Road N

City/Town: N/A

**Description of Essential Bridge Repairs:**

Replace or repair heavily corroded corrugated metal  
cribbing at the east abutment and northwest  
and northeast wingwalls.

Consider encasing the piles at the east abutment in concrete  
to mitigate further deterioration.

Color Code Suggested by Inspector (see Item 6 on reverse): Green

**Definition of Essential Bridge Repairs:** Repairs necessary to ensure the safe and continued service of off-system major bridge structures. Immediate and potentially critical problems with structures should be reported to the designated local agency contact/maintenance personnel as appropriate. Examples of essential repair needs include: a girder severely damaged by an over-height vehicle; a bridge foundation undermined by scour; and advanced deterioration of a primary structure member that has undermined its load-carrying capacity. They also include less time sensitive items such as a bridge rail damaged by an errant vehicle; a plugged drain resulting in embankment erosion; and active corrosion that could undermine a bridge's load-carrying capacity before the next inspection.

Inspector: Mina Sass  
Short Elliott Hendrickson, Inc

Date of Inspection: 11/2/16

**To be filled out during Office Review:**

Senior Inspection Engineer: Jan Tjelt  
Short Elliott Hendrickson, Inc

By signing here, I have determined that the above description of Essential Bridge Repairs meets the established criteria set forth by CDOT Staff Bridge and that the repair is essential. Color code prioritization has been determined and notification of the above findings has been sent to the local agencies' public works or road and bridge departments.

Date of Office Review: 11/10/16

Color Code Assigned by Senior Inspection Engineer (see Item 6 on reverse): GREEN

Date Local Agency was Notified: 11/10/16

**The process for identification, notification, and tracking of Off-System essential bridge repairs is as follows:**

1. An essential repair need is discovered by the bridge inspector during bridge inspection.
2. The essential repair finding is categorized using maintenance activity numbers as described in Appendix C of the Colorado Pontis Coding Guide.
3. The bridge inspector assigns a double asterisk to the essential repair finding. Example: \*\*354.01 is an essential repair finding due to collision damage sustained by the bridge's girders or truss members.
4. The essential repair finding is evaluated by the consultant's senior inspection engineer.
5. If the consultant's senior inspection engineer determines that the identified finding is not essential, that engineer documents why in writing on the report. The engineer then signs and dates the report before returning the structure folder back to the inspector.
6. If the consultant's senior inspection engineer determines the repair is essential, the engineer classifies the repair and notifies the local agency. The color coded prioritization described in the following table is used for classification:

Orange	Accomplish repairs within the timeframe specified by the memo or within 30 days maximum.
Yellow	Recommend accomplishing repairs within the next 90 days.
Green	Recommend accomplishing repairs within the next year or as funding allows.
Blue	Monitoring by maintenance in lieu of repairs. The type and frequency of monitoring as specified by the repair notice.

Notifications are sent by e-mail to the local agencies' public works or road and bridge departments. Those copied on the notification include other local agency contacts as determined by the consulting firm, the FHWA Division Bridge Engineer, the Staff Bridge Branch Manager, the Staff Bridge Asset Management Engineer, the Staff Bridge Inspection Program Manager and the Staff Bridge Quality Assurance Inspector.

7. The Staff Bridge Quality Assurance Inspector will maintain a tracking spreadsheet of all the essential repair notices that are issued by the consultants. Entries in the sheet shall record the structure number, the date notification was sent to the local agency, the local agency, the road carried by the structure, the structural problem, the color coded prioritization, the date that the repair finding was addressed by the local agency, and the date the consultant's senior inspection engineer confirmed the repair had been completed.

8. When the local agency completes the repairs, they shall notify the consulting firm. The consulting firm shall forward the notification via e-mail to the Staff Bridge Quality Assurance Inspector to be used in updating the tracking spreadsheet by filling in the date the finding was reported as repaired.

9. Essential repair findings reported to be completed are confirmed by bridge inspectors during regularly-scheduled inspections. The Quality Assurance Inspector may request the consultant to conduct a special follow-up inspection. The consulting firm assigned to the section may recommend a special inspection for follow-up. Any special inspections paid for with off-system inspection project funds must be pre-approved by the Staff Bridge Quality Assurance Inspector.

10. The bridge inspectors will document in their inspection report whether or not any essential repairs previously identified have been addressed and forward the report to the consultant's senior inspection engineer for evaluation. If the inspection engineer concurs that the essential repair has been addressed, the engineer notifies the Quality Assurance Inspector who then updates the tracking spreadsheet accordingly. If the inspection engineer determines that the repair has not been addressed, the engineer will issue a follow-up repair notice to the local agency.

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

Highway Number (ON) 5D: N.00 V  
Mile Post (ON) 11: 1.800 mi

Bridge Key: 083000N01.80016

Inspection Date: 11/02/2016

Sufficiency Rating: 48

SD

NBI Reporting ID:	083000N01.80016	Hist Signif 37:	5	UW Inspection Date 93B:	
Rgn/Sect 2E/2M:	53	Posting status 41:	A	SI Date 93C:	
Tran Region 2T:	10	Service on/un 42A/B:	1 5	Bridge Cost 94:	\$220500
County Code 3:	083	Main Mat/Design 43A/B:	3 02	Roadway Cost 95:	\$22050
MONTEZUMA		Appr Mat/Design 44A/B:	0 0	Total Cost 96:	\$330750
Place Code 4:	00000	Main Spans Unit 45:	1	Year of Cost Estimate 97:	2016
non-city		Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Rte.(On/Under) 5A:	1	Horiz Clr 47:	22.01 ft	Border Bridge Number 99:	
Signing Prefix 5B:	4	Max Span 48:	27.8 ft	Defense Highway 100:	0
Level of Service 5C:	1	Str Length 49:	30.4 ft	Parallel Structure 101:	N
Direction Suffix 5E:	0	Curb Width L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	2
Feature Intersected 6:		Width Curb to Curb 51:	22.01 ft	Temporary Structure 103:	1
ALKALI CANYON		Width Out to Out 52:	23.9 ft	Highway Systems 104:	0
Facility Carried 7:		Deck Area:	732	Fed Lands Hiway 105:	0
COUNTY ROAD N		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	
Alias Str No.8A:		Min Undrclr Ref 54A:	N	Deck Type 107:	6
MTZ-016		Min Underclr 54B:	0.0 ft	Wearing Surface 108A:	8
Prll Str No. 8P:		Min Lat Clnce Ref R 55A:	N	Membrane 108B:	0
N/A		Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	0
Location 9:		Min Lat Undrclr L 56:	0.0 ft	Truck ADT 109:	2.00 %
1.5 MI W OF SH 491		Deck 58:	6	Trk Net 110:	0
Max Clr 10:	99.99	Super 59:	6	Pier Protection 111:	1
BaseHiway Net12:	0	Sub 60:	4	NBIS Length 112:	Y
IrsinvRout 13A:	0000000000	Channel/Protection 61:	6	Scour Critical 113:	5
IrrsubRout No13B:	00	Culvert 62:	N	Scour Watch 113M:	N
Latitude 16:	37d 23' 51.47"	Oprrng Rtg Method 63:	1 LF Load Fact	Future ADT 114:	410
Longitude 17:	108d 38' 58.40"	Operating Rating 64:	41.7	Year of Future ADT 115:	2034
Range 18A:	N	Inv Rtg Method 65:	1 LF Load Fact	CDOT Str Type 120A:	SSM
Township 18B:	N	Inventory Rating 66:	25.0	CDOT Constr Type 120B:	00
Section 18C:	N	Asph/Fill Thick 66T:	16.0 in	Inspection Indic 122A:	-
Detour Length 19:	2 mi	Str. Evaluation 67:	4	Inspection Trip 122AA:	Unknown
Toll Facility 20:	3	Deck Geometry 68:	4	Scheduling Status 122B:	-
Custodian 21:	02	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	0
Owner 22:	02	Posting 70:	5	Expansion Dev/Type 124:	O
Functional Class 26:	09	Waterway Adequacy 71:	8	Brdg Rail Type/Mod 125A/B:	XX 0
Year Built 27:	1970	Approach Alignment 72:	6	Posting Trucks 129A/B/C:	0.0 0.0 0.0
Lanes on 28A:	2	Type Of Work 75A:	31	Str Rating Date 130:	09/30/2002
Lanes Under 28B:	0	Work Done By 75B:	1	Special Equip 133:	Unknown
ADT 29:	265	Length of Improvment 76:	42	Vert Clr N/E 134A/B/C:	X -1.00 -1.00
Year of ADT 30:	2014	Insp Team Indicator 90B:	SEH	Vert Clr S/W 135A/B/C:	X -1.00 -1.00
Design Load 31:	0	Inspector Name 90C:	SASSN	Vertical Clr Date:	01/01/1901
Apr Rdwy Width 32:	23.01 ft	Frequency 91:	24 months	Weight Limit Color 139:	0
Median 33:	0	FC Frequency 92A:		Str Billing Type:	IIB
Skew 34:	0 °	UW Frequency 92B:		Userkey 1 - System:	OFFSYS
Structure Flared 35:	0	SI Frequency 92C:		Userkey 4 - OffSys Sched:	South FY ODD
Sfty Rail 36a/b/c/d:	0 0 0 0	FC Inspection Date 93A:		Userkey 5:	
Rail ht36h:	39.0 in			Userkey 7 - Update Ind.:	
				BridgeGroup	-1

Inspector Name: SASSN



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

Highway Number (ON) 5D: N.00 V

Mile Post (ON) 11: 1.800 mi

**Element Inspection Report**

Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
30/1	Steel Deck - Orthotropic	sq.ft	727	45%	327	55%	400	0%	0	0%	0

Painted corrugated metal decking. R1 to heavy R1 rusting at joints. Surface: 16 inch average gravel above corrugations.

510/1	Wearing Surfaces	sq.ft	727	0%	0	100%	727	0%	0	0%	0
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515/1	Steel Protective Coating	sq.ft	727	45%	327	55%	400	0%	0	0%	0
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107/1	Steel Opn Girder/Beam	ft	334	0%	0	100%	334	0%	0	0%	0
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(9) Steel wide flange beams at interior (Girders B-J) with channel welded between top flanges and across bottom flanges at midspan. R1 to heavy R1 rusting on Girders B-J. Painted steel wide flange beams at exterior with channel welded between top flanges and across bottom flanges at midspan. Painted green. R1 rusting on Girders K and A.

515/1	Steel Protective Coating	sq.ft	60	0%	0	0%	0	100%	60	0%	0
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202/1	Steel Column	each	12	0%	0	50%	6	25%	3	25%	3
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Steel H-piles at east abutment (A2), unpainted except northeast corner. Flaking and R2 at piles 2B and 2C. Painted steel H-piles at west abutment (A1) and at northeast corner. R2 rusting at northeast corner. R1 rusting at base of Piles 1D-1F. Light R1 rusting at Piles 1A-1C. A structural review has been completed and it has been determined that the defects do not impact the strength or serviceability of the element or bridge. The quantity has been left in CS 4 and this note added as a flag to future inspectors that a structural review was completed. Future inspectors should reassess whether the defects impact the strength or serviceability of the element or bridge as appropriate.

515/1	Steel Protective Coating	sq.ft	7	100%	7	0%	0	0%	0	0%	0
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1000/1	Corrosion	each	3	0%	0	0%	0	0%	0	100%	3
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Heavy R3 rusting with up to 29% section loss at waterline of Piles 2D-2F (7/16 inch normal flange and now 5/16 inch).

219/1	Std Abutment	ft	48	19%	9	31%	15	19%	9	31%	15
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Painted corrugated metal cribbing. R2 rusting at ground in between Piles A and C. Light R1 rusting at A1 between Piles A-C. R1 to heavy R1 rusting at A1 between Piles C-F. A structural review has been completed and it has been determined that the defects do not impact the strength or serviceability of the element or bridge. The quantity has been left in CS 4 and this note added as a flag to future inspectors that a structural review was completed. Future inspectors should reassess whether the defects impact the strength or serviceability of the element or bridge as appropriate.

515/1	Steel Protective Coating	sq.ft	48	0%	0	0%	0	100%	48	0%	0
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1000/1	Corrosion	ft	15	0%	0	0%	0	0%	0	100%	15
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R4 rusting near ground line and holes at east abutment (A2) between Piles C and F.

# Colorado Department of Transportation

Highway Number (ON) 5D: N.00 V

Mile Post (ON) 11: 1.800 mi

## Structure Inspection and Inventory Report (English Units)

231/1	Steel Pier Cap	ft	48	0%	0	100%	48	0%	0	0%	0
Girders welded to unpainted steel channel cap at east abutment (A2). R1 rusting. Debris on cap. Girders welded to painted steel channel cap at west abutment (A1). Light R1 to R1 rusting.											
515/1	Steel Protective Coating	sq.ft	24	0%	0	0%	0	100%	24	0%	0
330/1	Metal Bridge Railing	ft	61	0%	0	100%	61	0%	0	0%	0
Painted W beam rail on steel wide flange and channel posts welded to top and bottom flanges of exterior girders. Rail lapped in wrong direction on both sides and snagged near midspan of south rail. Inadequate post and welded connections. Light R1 rusting on rail posts.											
515/1	Steel Protective Coating	sq.ft	61	0%	0	0%	0	100%	61	0%	0
Paint mostly gone.											
9326/1	Bridge Wingwalls	(EA)	4	25%	1	25%	1	0%	0	50%	2
Steel piles with horizontal waler and painted corrugated metal cribbing. Wingwalls are low. Moderate erosion at northeast, minor erosion at others. R3/R4 rusting at joints of northeast and northwest. R2 rusting at southwest and R1 rusting at southeast wingwall. Sagebrush growing through cribbing at joints (typical).											
9501/1	Channel Cond	(EA)	1	100%	1	0%	0	0%	0	0%	0
Silty. Channel turns horizontally through structure, apex at east abutment (A2). High flows potentially attack bank beyond the northeast wingwall.											
9502/1	ChannProtMatCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
Large rock riprap at northeast corner. Provides partial protection.											
9504/1	BankCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
Steep to vertical banks, grassy.											
9505/1	Debris Smart Flag	(EA)	1	100%	1	0%	0	0%	0	0%	0
Minor vegetation debris caught on barbed wire fence mid channel.											
9520/1	AppRdAlign	(EA)	1	100%	1	0%	0	0%	0	0%	0
Bridge at apex of vertical sag and horizontal curve. Washboard gravel. Shoulders: Minor sloughing into roadway at corners of bridge. Sloughing at northwest and northeast due to roadway drainage is encroaching into roadway up to 2 feet and causing erosion in channel below at base of piles and wingwall.											
9530/1	Approach Guardrail A	(EA)	1	100%	1	0%	0	0%	0	0%	0
Painted W beam rail on steel wide flange posts, blocked out, flared end sections. Too short, not gradually stiffened, end sections not shielded and breakaway. Inadequate transition section. Not double nested. Low rail height (typical).											
9600/1	Genl Remarks	(EA)	1	100%	1	0%	0	0%	0	0%	0
Object markers at ends of approach rails.											

### Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
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# Colorado Department of Transportation

Highway Number (ON) 5D: N.00 V

Mile Post (ON) 11: 1.800 mi

## Structure Inspection and Inventory Report (English Units)

**358.99	Substructure-Rehab	10/14/2008	1	2020	25000
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Replace backwall at the east abutment (A2) and north and east wingwalls. Alternatively, encase piles and backwall at A2 in concrete for 2 feet below existing groundline and 4 feet above existing waterline.

260.01	Misc-Remove Vegetation	9/12/2002	1	2020	100
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Cut brush on approach roadway at northeast corner on inside of curve to improve sight distance.

306.04	Substruct-Cln Abutment/Pier Seat	11/18/2014	1	2020	300
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Remove debris from pier cap at A2.

306.07	Bridge Rail-Replace	11/6/2012	-1	2020	7930
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Replace bridge rail to meet current AASHTO/CDOT standards.

306.08	Approach Railing	11/6/2012	1	2020	31000
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Replace transitions, approach rails and rail ends to meet current AASHTO/CDOT standards.

306.09	Bridge Rail-Repair	9/12/2002	1	2020	400
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Loosen bridge rail on both sides of bridge and lap in proper direction.

352.20	Deck-Resurface	10/14/2008	1	2020	1000
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Remove excess dirt/gravel from bridge deck to maintain load carrying capacity and improve drainage.

# Colorado Department of Transportation

Highway Number (ON) 5D: N.00 V

Mile Post (ON) 11: 1.800 mi

## Structure Inspection and Inventory Report (English Units)

358.04	Channel-Remove Debris	11/7/2012	1	2020	120
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Remove debris and fence from under structure in the channel.

358.99	Drainage-Repair Washouts/Erosion	10/14/2008	1	2020	1500
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Raise tops of wingwalls 2 feet at all corners to retain fill and mitigate erosion encroaching into roadway.

360.03	Substructure-Rip Rap	9/12/2002	1	2020	1400
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Place riprap in front of east abutment (A2).

399.00	Bridge-Replacement	11/18/2014	1	2020	330750
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Consider replacing structure due to heavy deterioration in substructure.

### Bridge Notes

Keep bridge on 24 month cycle until further distress in substructure is observed.
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### Inspection Notes

Date - 11/2/2016 Temp: 58 degrees Time: 11:20 AM Weather: Clear, breeze
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Colorado Department of Transportation  
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: N.00 V

Mile Post (ON) 11: 1.800 mi

Scope:

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

Team Leader Inspection Check-off:

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

Inspection Team: SEH

Inspection Date: 11/02/2016

Inspector: Nina Sass



Inspector (Team Leader): NINA SASS



083000N01.80016

NOV. 2, 2016

APPROACH RAILS:

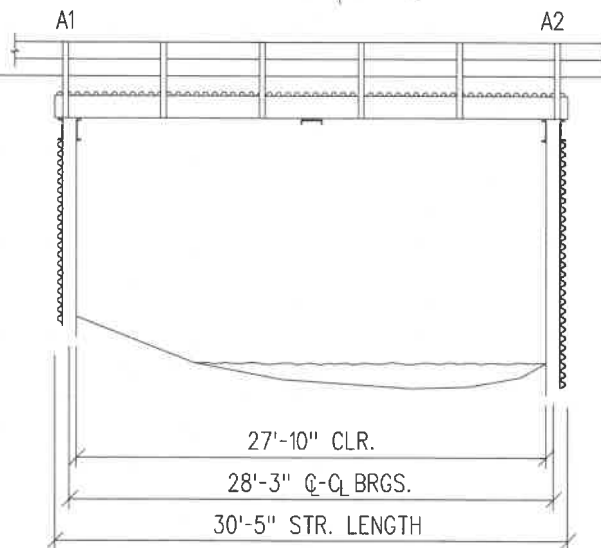
PAINTED "W" BEAM RAIL ON STEEL  
WF POSTS, BLOCKED OUT, W/ FLARED  
END SECTIONS (27' LONG)

WINGWALLS:

(4) HP 10" X 10" PILES W/ 8" X  
6 1/2" OR SALVAGED TRUSS  
MEMBER W/ 2" X 6" X  
12 GA. CORR. METAL CRIBBING

PLAN

GRADE

ELEVATION

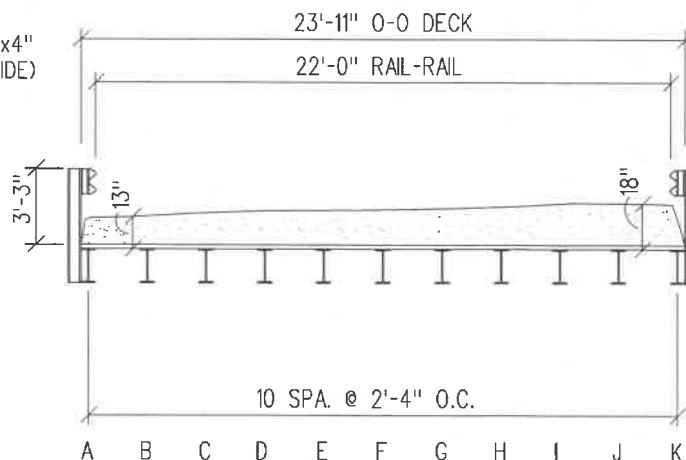
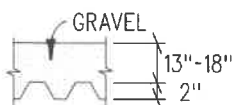
LOOKING NORTH

BRIDGE RAILINGS:

PAINTED "W" BEAM RAIL ON  
6"x4" WF AND 8" CHANNEL  
POSTS @ 6'-3" O.C. W/ 8"x4"  
BLOCKS AT "W" BEAM (6/SIDE)

DECK:

13" @ N, 18" @ S GRAVEL  
ABOVE CORRUGATIONS  
ON 2"x6"x 12 GA. PAINTED  
CORR. METAL DECKING

GIRDERS:

(1) W 16 X 45

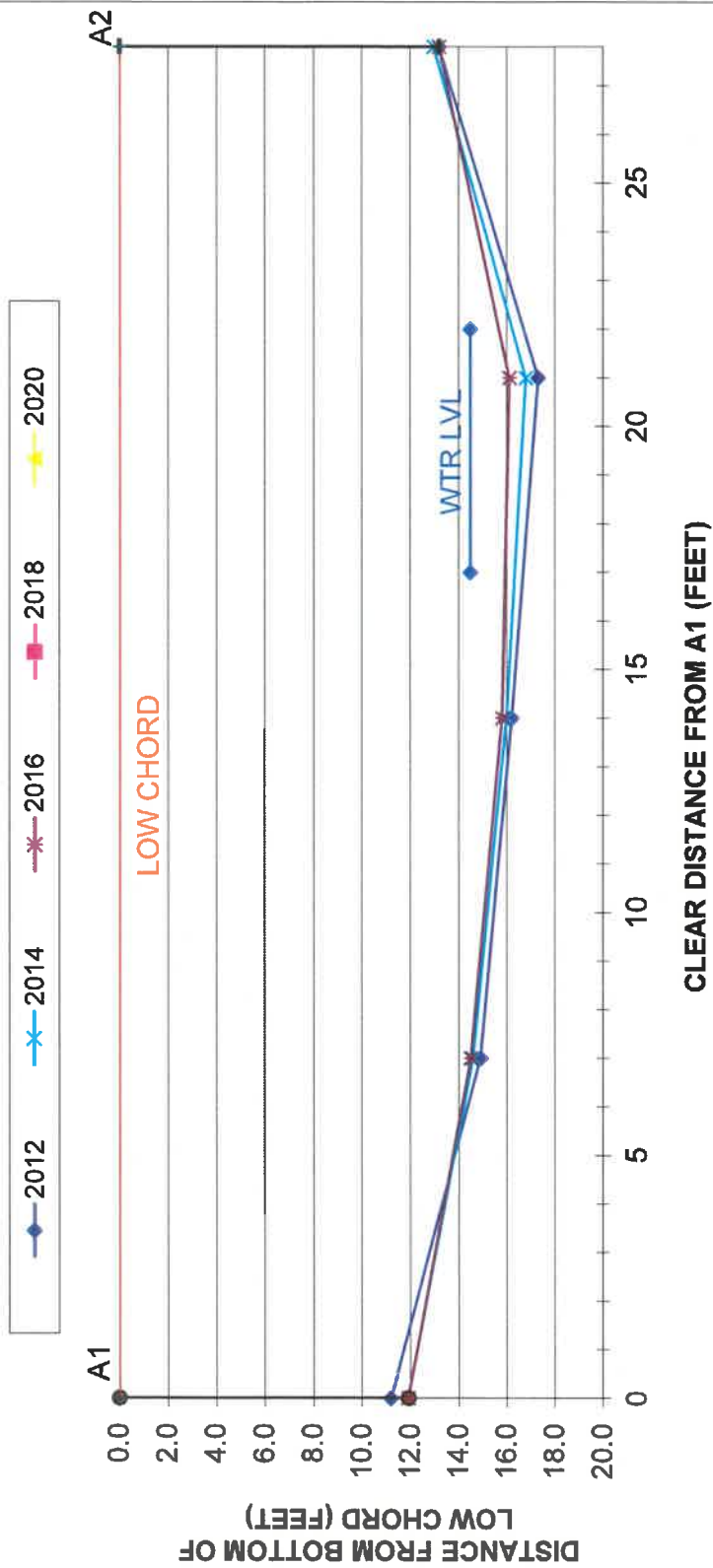
DIAPHRAGMS:

8" CHANNELS TOP FLG.  
BRACE AT ABUTS. &  
MIDSPAN AND 8" CHANNEL  
BOTTOM FLG. BRACE @  
MIDSPAN

SECTION

LOOKING EAST

# STREAMBED HISTORY



WTR LVL
15.3
15.2
14.5

	0	7	14	21	27.8
2012	11.2	14.9	16.2	17.3	13.2
2014	11.9	14.6	16.0	16.8	13.0
2016	11.9	14.5	15.8	16.1	13.2
2018					
2020					

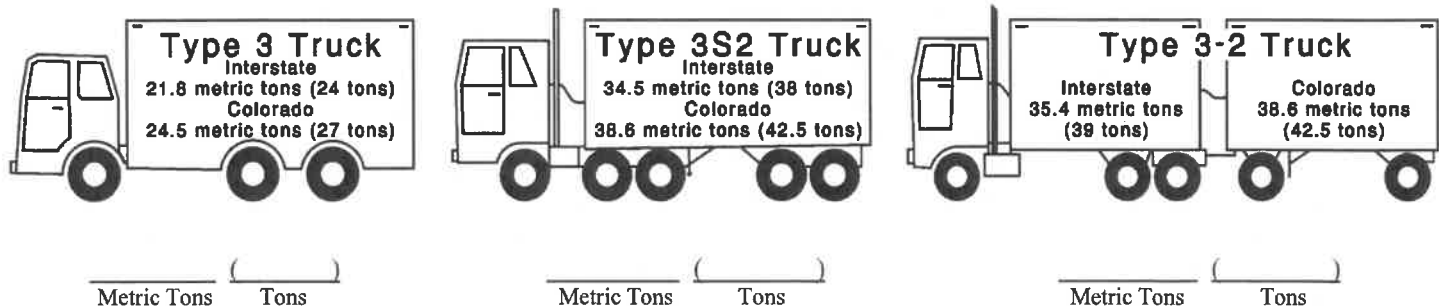
STRUCTURE NUMBER: 083000N01.80016  
 INSPECTION DATE: 11/2/2016

PERFORMED BY: NS/BI

<b>COLORADO DEPARTMENT OF TRANSPORTATION</b> <b>LOAD FACTOR RATING SUMMARY</b>	Structure # 083000N01.80016
	Abbr. Str. # MTZ-016
Rated Using:  Asphalt Thickness: -0- mm (-0- in.)  <input checked="" type="checkbox"/> Colorado Legal Loads  <input type="checkbox"/> Interstate Legal Loads	Road or Street # County Road N
	Batch I.D.
	Structure Type SSM
	Parallel Structure # N/A

Structural Member	DECK		GIRDER			
	Metric Tons	(Tons)	Metric Tons	(Tons)	Metric Tons	(Tons)
Inventory MS 18 (HS20)	22.6	(25.0)	30.7	(33.9)		
Operating MS 18 (HS20)	37.8	(41.7)	51.4	(56.7)		

Type 3 Truck				
Type 3S2 Truck				
Type 3-2 Truck				
Permit Truck				



Comments:  18" (max.) fill above corrugations on 2" x 6" x 12 gage corrugated metal decking, $F_y = 36,000$ psi.  Girder rated is first interior from south W16x45, spanning 28'-3", spaced at 2'-4", $F_y = 36,000$ psi.  <b>NO POSTING REQUIRED</b>			
BRIDGE REINSPECTED BUT NOT RERATED BY ALFRED BENESCH & COMPANY 2014  BRIDGE RE-INSPECTED BUT NOT RE-RATED BY ALFRED BENESCH & CO. 2012			
Rated By: Jason Triplett	Date: 9/30/02	Checked By: Jim Inglis	Date: 10/08/02
<b>INSPECTED BUT NOT RATED</b> <b>STANTEC CONSULTING 2010</b>		By:	Date:



View of Bridge Side Elevation Looking Upstream



View Down Centerline Bridge Roadway Looking Upstation (East)





View Looking Upstream, Left Bank



View Looking Upstream, Right Bank





View Looking Downstream, Left Bank



View Looking Downstream, Right Bank





W-Beam Lapped in Wrong Direction and Perforated End - Various Occurrences



Vegetation Growing in Front of Low Northeast Approach Rail





Erosion at Northwest Corner of Deck beginning to Encroach on Roadway –  
Similar at Northeast



Erosion Trough at North End of West Abutment - Correlated to Erosion at Corner of Deck  
Above



Vegetation Growing out of Northeast Wingwall - Similar at All Others



Bulging of East Abutment Cribbing where Not Rusted Through





R4 Rust with Holes in East Abutment Backwall - Between Piles 2D and 2E Shown



R4 Rust with Holes, Voids and Vegetation Growing in East Abutment Backwall – Between Piles 2E and 2F Shown





Flaking Layers of R3 Rust on Pile 2D - Section Loss Evident



Flaking Layers of R3 Rust on Pile 2E - Section Loss Evident



R4 Rust with Holes, Voids and Vegetation Growing in Southeast Wingwall Cribbing



General View of Underside of Bridge Looking Upstation (East)