CAPPENDIX A



March 22, 2023

Our File: 221 - BO

M.D. OF BONNYVILLE NO.87 4905-50 Ave. Bag 1010 Bonnyville, AB T9N 2J7 MAR 2 7 2023

M.D.OF BONNYVILLE No. 87

To Whom it May Concern

We are enclosing herewith 1 copy of the following bridge inspections undertaken in MD of Bonnyville, which have been inspected, reviewed and entered into the BIM system. Please review and note any comments on the forms.

Bridge File Numbers	
Lot 1 –	
Lot 2 –	
Lot 3 – 72515-1	
Lot 4 –	
Lot 1 - Bridges requiring assessment for maintenance beyond minor and routine maintenance. Lot 2 - Bridges requiring maintenance for which AT normally provides funding assistance. Lot 3 - Bridges requiring maintenance for which the Municipality is responsible to fund. Lot 4 - Bridges that require no maintenance.	

Sincerely,

MPA Engineering Ltd.

per;

Eric Carcoux, P. Eng

Alberta Transporta	tion			Brid	ge Inspec	_	_		- 17	n (Web	2022)	M	1,00		72515 -1 B	riage
		645	Dalde			Br	idge In	AND RESIDENCE	A MARKET CONTRACTOR	No. 10		TU				
Bridge File Numl		2515 -1	Page 1					979 Harris	Туре			TH	7		GC. 201107	
Year Built/Year Supstr	19	46/194	б	/				Lot N	THE PARTY NAMED IN			4.4	5	- As	00-1	0,110
Bridge or Town N	Name G	OODRI	DGE	17/1/19	1		Mar.	-	ector N			MA	RI	2 50000	KO	
Located Over	PRODUCTION MADE		RIVER,	7 WATE	RCRS-	ST	/	1000	ector C	1			P	9		
Located On		DCAL R	The second second					-	stant N							_
Water Body Cl./		JOALI	COAD					10/11/2000	stant C	Design Service						
Navigabil. Cl./Ye					PEO IL E			72.1	ection				1 -	5-202		
Legal Land Loca		NE SEC 6 TWP 63 RGE 8 W4M			MANA	IM /			Arrive Time			16:55				_
Longitude, Latitu					7 77-101	IM >			Depart Time			18350				
		-111:11:32, 54:25:23 M.D. OF BONNYVILLE NO. 87			2 97	- /			Entry	Carl Land		The	resa L	acusta DE	C 0 1 202	2
Road Authority	Contract Contract		CONTRACTOR OF	-	J. 61	3 (6)			Entry	15.000				0.0	מכחני זוחוז	
Contract Main. A			NED CMA						ewer N	FE 15 1		Wad	e Nan	ninga 30	MUA TOTT	
Clear Roadway/S		9 /	04 /E)	/				Revi	ew Da	te						
AADT/Year		50 / 202	- CONTRACTOR OF THE PARTY OF TH	/						ewer N			-10			
Road Classificat		LU-208	G-90			1 1 1 1		Dept	. Revi	ew Dat	le					
Detour Length (k	(m) 2	/		gigna.			14.5	Follo	w-Up	Ву						
Allowable Load ((t): Single	H 20 FLO	OR BEAL	M	Semi	HS U2				Train	CS: U2I	3 32 L3		> On Criti	ical Spans Member	
Design Loading:		HS2	.0			V ,		1918					1118	> Primary	/ Span	11
	mar din 1			AND HER		Po	sting Ir	nform	ation	الراوا الما						
Required Vert. C	Clearance	Postin	g (m)		14.41	R IV	estill t	K. LIV	HA.						T(b)(b)	0.1
Posted Vertical	Clearance	e (Y/N)		Yes					/_	-						
Posted: Lane	NB	On Br	ridge (m)	4.7	In Advar	nce (Y/N)	Yes 🖊	Lane	SB	0	n Bridge (m) 4.7	In Advanc	e (Y/N) 1	10
Remarks	Measure	ed 4.83	m. /		and the second											
Required Load F	osting (t)			Single			21		Semi	100		28	Truc	k Train	32	
Posted Loading	(t)			Single			15.0		Semi				Truc	k Train		
Posted:	Lane	NB		At June	ction (Y/I	V)	Yes 🥒		ln Adv	ance (Y/N)	No /	At B	ridge (Y/N)	Yes	/
Posted:	Lane	SB		At June	ction (Y/I	V)	Yes L	10	In Adv	ance (Y/N)	No /	At B	ridge (Y/N)	Yes	
Remarks	Require	d. Poste	ed @ 15 t	/												
Hazard Marker	At Bridge	(Y/N)	Yes													
Remarks			HM low	@ SE/S	sw. /											
Other Sign Type	s	najv.s			Curve, N	o tru	cks, 60	kph 🎍								
					#18		lities (l					this mile	, z 🖟 , sa	- New York - Company	S. S.	Q 143
Utility Attachmen	nts								16-17							
Telephone		uit on ea	ast side.					Gas	72	S. Carrier						
Power								Mun	icipal							
Others								Prob	olem ((/N)	No 🍃					
Remarks													**		-	
			10 - 10	Distriction of the last of the	Carlo Super		Approa			Marie I			awie by w			ide
					L	ast	Now	_		on of C			Report			1
Horizontal Align	ment					4	4	Larg	e qua	rry ope	eration	@ NE.	ade/cu	rve in both di	rections	
Vertical Alignme	ent				5	5	5	Slov 30kg	ved do	wn to	60 km	hr to navig	ate cui	ves-likely ne	eds to be	/
Roadway Width	(m)		8.000	/												
Approach Bump					A DE	4	14	Poth	noles							
Guardrail (Y/N)		TARE.	Yes	/								/	/			
Guardrail			REP.			3	3		ifficien thrie b		and I	ength.				
Length (m)		ngoga a	11.400	/						at NE	broke	en.				
Current Stand	lard (Y/N)	No	/	1							(3)440				
			-			TANKS.	199	16								
Termination T	vpe		Turned	Down												
Termination T Drainage	уре	I	Turned > RE(Down		6	6									

					Supers	structure
Bridge Comp	ponent			Last	Now	Explanation of Condition
(Primary Spa	n : TH, 1 Spa	ns, Lengths	(m): 45.7, A-lde	ent Nur	nber: /	A0066-01)
Special Feat	ures					
Special Feat	ıre				X	
(Type:)						
Special Feat	ure				IX	A CONTRACTOR OF THE CONTRACTOR
(Type:)						
Wearing Surface/Deck Top Detail Ratings				X III		
	N (%)	1 (%)	2 (%)	3 (%)		
Last	20	0	0		0	
Now	20	0	0	(7	
Wearing Surf	ace/Deck Top)		4	4	Strip deck wearing rot in wheel paths.
(Material Ty	ype : UNTRE	ATED TIMBE	R)			
(Plank Thic	kness(mm):	75)			7	
(Plank Wid	th(mm): 300)	/			HE PART	
Deck Rideab	ility			5	5	
Deck Joints			TENNING THE	X	X	
Temperatu	re (deg. C)	25	3			
(Expansion	Type:)					
(Fixed Type						
Gap Size (ı		Gap	Location			
Curbs/Wheel	Guards			4	14	10 wheelguard blocking are either twisted, split or missing.
(Curb Type	: Standard)	/		Mark!		NE damaged - photo.
(Type: TR	EATED TIMB	ER)/				
(Thickness	(mm): 100)	1		HE W		
(Width(mm): 300)					
Bridge Rail			/	5	5	Triple layer flexbeam.
(Type : GA	LVANIZED S	TEEL FLEX	BEAM)			
Bridge Rail F	Posts/Blocking	/	/	7	17	
(Type : GA STEEL)	LVANIZED P	OST STEEL	;GALVANIZED	POST		
Bridge Rail/F	Posts Coating			7	17	
(Type : GA	LVANIZED)	/				
Sidewalk				X	×	

X Total	w se sines			manus II.	Supers	structure
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : TH, 1	Spans, Le	ngths	(m): 45.7, A-ld	lent Nu	mber: A	A0066-01)
Wide Load Damage (Y	(/N)	Yes	//			Bullet hole NW batter post.
High Load Damage (Y	'/N)	Yes			MARIN	(U8U8 crack @ lower weld @ W end. 11-Jun-07) All top bracing welded @ mid length/U3L4W-30mm kink @ mid
Top Chord	V. E. Office	Month		7	7	length.
Batter Posts	CONTRACTOR NAMED IN			7	7	(U1U1-2 nicks & dents on lower flange, U9U9-5 x 150 dent. U1L1W headless rivet @ L1W. U9L9W-2 malform rivets @ U9W.
Sway Bracings	Market market			4	4	L8L9E-3 headless rivets @ L8E. L4L5W-6 headless rivets @ L5W.
Diagonals		100		3	3	L0L1W-11 x 350 dent o/s flange near L0WNov, 2018) Scaling up to 2mm deep on lower flange only @ ends of beams.
Verticals		4	4	Rust scaling bottom flanges.		
Portals		6	6	Scaling lower flanges at abutments, minor. (U1L2W viewed from deck & U1 outside has possibility of crack. 17-		
Connections			4	4	Apr-18)	
Floor Beams				4	4	(Headless rivet L8L9W @ L9Nov, 2018) Recent accident damage-te-U2L3W-with-rail-bolt pulling through bolt
Bottom Chord	1			5	15	hole & overall kink of ~50mm.
(No. of Stringers : 80)	/			1.5		
Stringer Detail Ratings	New York	10 100				
N (coun	HARLING BOOK OF	ount)	2 (count)	3 (co	unt)	COULD NOT LOESTE/VIEW CRA
Last		A STATE OF				
Now						
Stringers				4	4	
(Type : STEEL) /						
(Width(mm): 120)	/	1144		1000	1000	
(Depth(mm) : 200)	/					
(Spacing(mm): 710)) /		SECRETARION			
Paint Condition				4	4	U0L1E, U2L2W & U3L3W are scraped from accident.
(Colour Description	:)	1			18/1	Bullet hole in floor beam 2nd from South abutment - midspan. Dented sway brace - underside bay 2.
(Colour Code :)						
Touchup Required (Y/N)	No _	/			Portions recently straightened have been primed only with red-lead. Pitting & scaling on floor beam and stringers. Scaling lower flange of stringers at abutments, minor. Silver.
Bearings				4	4	Gravel & moss growth at all bearings.
Temperature (deg. (2)	25	3	ABRAY		
(Expansion Type : R	CALL STREET, SALES	1000	FARING)			Fixed on S end.
(Fixed Type : PINNE		THE PARTY OF THE PARTY OF	/	0.87		To an immuned assigned abustment
Functioning (Y/N)	_D DL/((()	No	/			Truss jammed against abutment.
Sub Deck/Deck Under	reide	1 70		5	1	
(Material Type : TRI	The second second	/RED	/	- 0	1.3	
(Plank Thickness(m	MINERAL TRANSPORT OF THE PARTY OF	/ /			C. N.	
(Plank Width(mm) :	APERT LANG	/			No No.	
Defects (Percent Ar		5	/			
Span Alignment Pro		,				
Vertical (Y/N)	DIGILIS	No	/		N	
Horizontal (Y/N)		No				
	aral Detin			4	17	
Superstructure Gene	erai Kating			4	14	
		apolis anatoli	18 T	- Wydowysia	Subs	tructure
Bridge Component	1000			Last	Now	Explanation of Condition
Abutments		1143	/			The second secon
(Extended Backwall	Piles (Y/N):N)				HP 305 weld corbels on 300 TT caps.
(Extended Backwall	Piles Spa	cing(m	m):)			Timber subcaps. 1 - 300 TT backwall cap, 2 total North backwall rotating counter clockwise.

<i>P</i>	THE PARTY OF THE P			192 7 2 7 1	Subst	ructure
Bridge Con	nponent	1/1		Last	Now	Explanation of Condition
(Total Numb	per of Caps/Co	rbels : 10:10)				Corbels are steel HP.
202-518 to 1	ats/Caps/Corbe	and the second second second second second	ngs			
	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	0	0	0		0	
Now	0	0	0		0	
Bearing Sea	ats/Caps/Corbe	els		5	5	
	REATED TIMB			HCMUA.		
(Depth(mi					TOTAL !	
(Width(mr		/				
Backwalls/E	CAN STREET	THE LOCAL STATE		5	5	
Greatest I		3.30				
Wingwalls	loight (III)	0.00		5	1	Top plank not attached NW.
vviiigwalis		//			5	Top plank not altabled 1444.
(Total Numb	per of Bearing	Piles : 16:16)			i kali	
Piles Detail	Ratings					
	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	2	0	0		0	
Now	2	0	0)	
Piles		an option of the		6	6	
Paint/Coatir	na			X	13/	
					X	
Abutment S	tability			7	7	
Scour/Erosi	on			7	7	
Piers/Bents	State Hell		196			
(Type:)		15, 10, 12, 15, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16				
	per of Caps/Co	orbels:)		100		
	ats/Caps/Corbo		nas			
Dodning out	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last						
Now	0	0	0		0	
	ats/Caps/Corb	els		X	IX	
(Type:)	2,0,00,00,00,00	Salary (Special Colors)		Von Barri	1	
	ber of Bearing	Piles ·)		a 188		
Piles Detail		1 1100 . 7				
i iics Detail	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	Tr (county	1 (ooding	2 (GGGIII)	0 (00	one,	
Now	0	0	0		0	
Pier Shaft/F				X	-	
The second secon	Height (m)			7	-	
11 5 5 6 1 1 P 2 5 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	uts/Sheathing			X	Ty	
Nose Plate				×	×	
					1	
Paint/Coati				X	1	
The second secon	escription:)					
(Colour C	and the second second					
Pier Stabilit	У			×	×	
Scour		Tall 1 Au		X	X	
Debris (Y/N	1)	Yes	/			Timber debris piled at SE corner. Old piles @ A. S abut,-cut at ground line.

7

(Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)

Channel General Rating

The first section is a second of the second	N N	lainten	ance Re	ecommendations	
eted Work	Division in the second				
d Work	To		I	T	Denotwent Comments
Work Type	Status	Rec. Year	Year	Inspector Comments	Department Comments
REPAIR/REPLACE BRIDGE RAIL	PRIORITY REQUIRED	-2021 2022		Replace 2 TT guardrail posts and straighten.	
SEAL CURBS	PRIORITY ASSIGNED	2021		Replace 10 wheelguard blocking and 1 WB plank 20' long.	
PATCH DECK	PRIORITY REQUIRED	2023		Strip deck in wheel path ~100m, patch/grade potholes.	
STRAIGHTEN/REPLACE MEMBERS	PRIORITY ASSIGNED	2027 2022		Drill out & install bolt @ NW batter post & floor beam. Replace U2L3W, and dented sway brace(1).	
OTHER ACTION	PRIORITY REQUIRED	2 021 2022		Grind and touch up vehicle scrapes on U0L1E, U2L2W and U3L3W, & WLD/HLD nicks~10 total.	
OTHER ACTION	PRIORITY REQUIRED	-2021 2022		Reset Hazard markers.	
OTHER ACTION	PRIORITY REQUIRED	2021 2020		Install speed limit 30 kph, Stop if Oncoming Vehicle on Bridge Signs.	
OTHER ACTION	PRIORITY REQUIRED	2021 2022		Sandblast/paint stringers/floor beams @ abutments~!50m2.	
ULTRASONIC TRUSS INSPECTION					
SEAL DECK					
OVERLAY DECK					
REPAIR/REPLACE DECK JOINTS			1 1 5 5		
REPLACE STRIP DECK					
REPLACE SUB DECK					
RESET/ PAINT BEARINGS					
WASHING					
CORE TIMBER CAPS/CORBELS					
REPAIR/REPLACE TIMBER CAPS					
REPAIR ABUTMENT SCOUR/EROSION			13-20		
PLACE ADDITIONAL RIP RAP					
REMOVE DRIFT ACCUMULATION					

Structural Condition Rating (Last/Now) (%)		w) 50.0/	Sufficiency Rating (Last/Now) (%)	33.5/	Est. Repl. Yr	2030	Maint. Reqd. (Y/N)	Y
Special Comments for Next Inspection	Monitor lower weld o are crossing bridge lo No repair for jammed	oad on regular bas	residence stated that heavy gravel trucks is - Feb 19, 2015). e.	Department Comments	HUC6 BOUNDARY: WHITE	UPPER BEA	AVER RIVER; RISK ZO	NE:
			- 100					MINISTER - 1012
Previous Inspect	or's Name	Wade Nanninga	Previo	us Assistant's Nam	ne			
Previous Inspecto Next Inspection I		Wade Nanninga 31-Aug-2024		us Assistant's Nam us Inspection Date		1		
Next Inspection D	Date					1	.100	



Bridge File:	72515-1
Date:	October 25, 2022
Photos by:	Mario Amero
Stream Name / Highway Location:	Beaver River / Highway Local Road, Goodridge



North



East



Bridge File:	72515-1
Date:	October 25, 2022
Photos by:	Mario Amero
Stream Name / Highway Location:	Beaver River / Highway Local Road, Goodridge



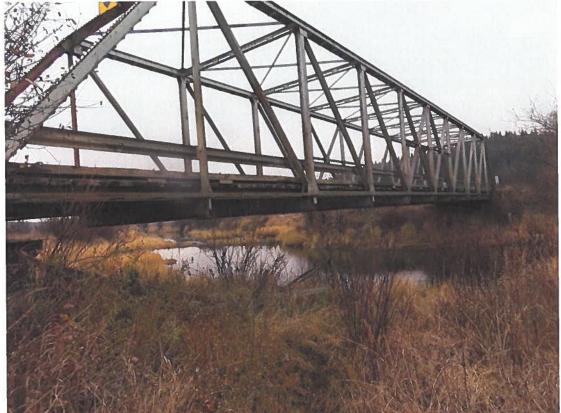
South



West



Bridge File:	72515-1
Date:	October 25, 2022
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Profile



Broken guardrail post at n/e



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Damaged wheel guard at n/e



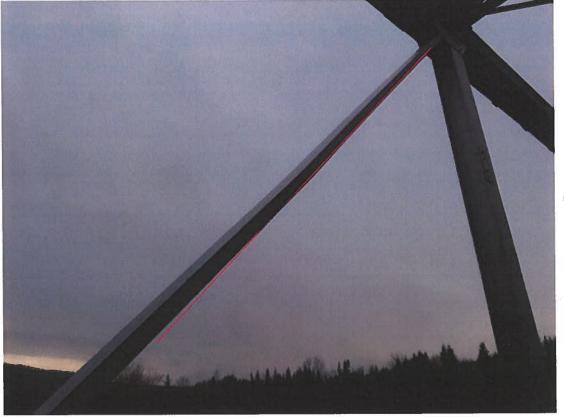
Bullet hole in n/w batter post



Bridge File:	72515-1
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U2L3W- slight bend



U3L4W- bend/twist



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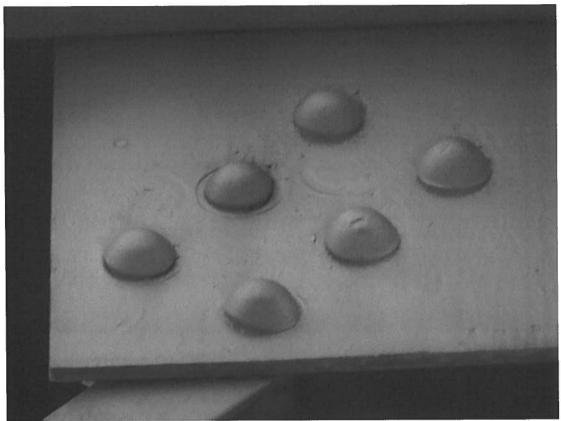
U2L3W- bent diaganal



U2L3W- broken bolt connection



Bridge File:	72515-1
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U2L3W connection



U2L3 bottom connection exterior



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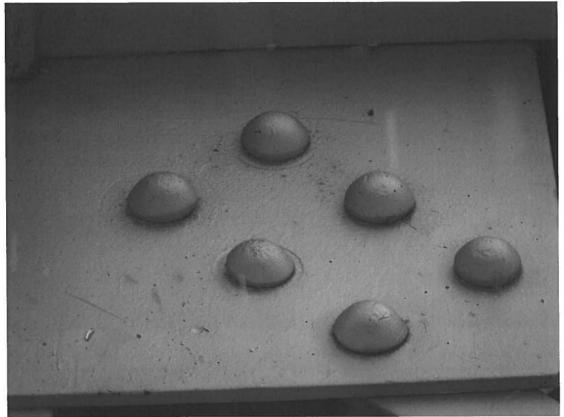
U2L3 bottom connection



U2L3 upper connection



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U8U8WConnection



U8U8W welded connection, south view



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Photos by:	Mario Amero
Stream Name / Highway Location:	Beaver River / Highway Local Road, Goodridge



U8U8W welded connection-north view



U8U8W exterior connection

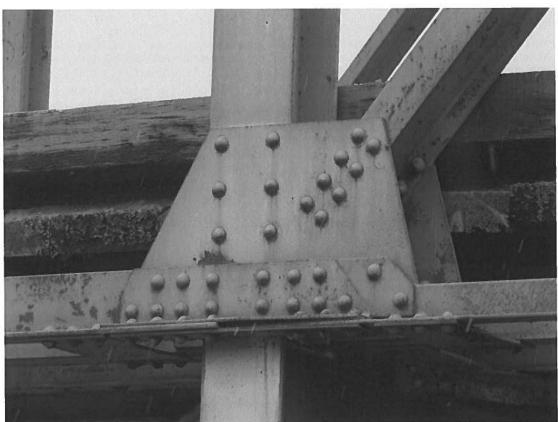


Bridge File: 72515-1

Date: October 25, 2022

Photos by: Mario Amero

Stream Name / Highway Location: Beaver River / Highway Local Road, Goodridge



L8W lower connection