						Br	idge Ir	nspection							
Bridge File Num	nber	er 74611 -1 Bridge					Form Type				PCS				
Year Built/Year		1956/195				Lot No.			1						
Supstr								Inspector Name			Jason Saly				
Bridge or Town Name MARWAYNE								Inspector Class			BR CLS A				
Located Over MARWAYNE CREEK, 6.5.5, W.					5, WAT	ERCH	RS-	Assistant Name							
Located On 897:04 C1 18.806								Assistant Class							
Water Body CI./	Water Body Cl./Year							Inspection Date			29-Nov-2012				
Navigabil. Cl./Year								Data Entr	у Ву		Marcia Chavez				
Legal Land Location SW SEC 24 TWP 52 RGE 3 W4								Data Entry Date			17-Jan-2013				
Longitude, Latitude -110:19:31, 53:30:06								Reviewer Name			John O'Brien				
Road Authority Alberta Transportation (AIT)								Review Date			14-Dec-2012	2			
Contract Main.	Area	CMA15	· · ·					Dept. Rev	viewer N	ame	Darron Ahlst	tedt			
Clear Roadway	/Skew	10.1 /						Dept. Rev	view Dat	е	30-Jan-2013	3			
AADT/Year		2,570/2	011 (A)					Follow-Up	о Ву						
Road Classifica	tion	RAU-210													
Detour Length (	km)	5													
Allowable Load					Semi	CS2			Train		S3 65 RDER		> On Critical Spans >Critical Member		
		-	DER			GIR	DER			GIF					
Design Loading		HS2	20			Dee	1 <sup>1</sup>						> Primary	Span	
Required Load Posting (t) Single						Posting II		nformation				Truck Train			
Posted Loading		()		Single				Semi Semi					k Train		
Posted:	Lane	NB		Single	tion (Y/N	I) N	١o		vance (\	//NI)	No			No	
Posted:	Lane	SB			tion (Y/N	-	10 10	1	vance ()		No	At Bridge (Y/N) At Bridge (Y/N)		No	
Remarks	Lane	00		At June		1)  T	NU	III Au	vance (	/11)					
Hazard Marker	At Brid		No												
Remarks		ge (1/1 <b>1</b> )	Not req	uired											
Other Sign Type			Notreq	uncu.											
other olgh Type						Utili	ities (l	ocated at	)						
Utility Attachme	nts								/						
Telephone		ed in West													
•			r/w.					Gas							
Power	5 wire							Gas Municipal							
	5 wire	e O/H, E fe						Municipal		10					
Others	5 wire									No					
Others	5 wire					A	pproa	Municipal Problem (		No					
Others	5 wire						<u>pproa</u> Now	Municipal	Y/N)		ion				
Others Remarks								Municipal Problem ( ch Road	Y/N)	ondit					
Power Others Remarks Horizontal Align Vertical Alignme	ment					ast	Now	Municipal Problem ( ch Road Explanati	Y/N)	ondit					
Others Remarks Horizontal Align Vertical Alignme	ment					ast 8	<b>Now</b> 8	Municipal Problem ( ch Road Explanati	Y/N)	ondit					
Others Remarks Horizontal Align Vertical Alignme Roadway Width	ment ent (m)		ence line.			ast 8	<b>Now</b> 8	Municipal Problem ( ch Road Explanati	Y/N)	ondit					
Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump	ment ent (m)		ence line.			ast 8 8	<b>Now</b> 8 8	Municipal Problem ( ch Road Explanati Passing b	Y/N) 1 ion of C poth dire	ondit ctions		). 18 <b>.</b>	Jun2012).		
Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N)	ment ent (m)		ence line.			ast 8 8	<b>Now</b> 8 8	Municipal Problem ( ch Road Explanati Passing b	Y/N) 1 ion of C poth dire	ondit ctions	3.	o). 18.	Jun2012).		
Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N)	ment ent (m)		ence line.			<b>ast</b> 8 8 7	Now 8 8 6	Municipal Problem ( ch Road Explanati Passing b	Y/N) 1 ion of C poth direct	ondit ctions	3.	). 18.	Jun2012).		
Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail	ment ent (m)	9 O/H, E fe	10.000 Yes			<b>ast</b> 8 8 7	Now 8 8 6	Municipal Problem ( ch Road Explanati Passing b (Guardrai	Y/N) 1 ion of C poth direct	ondit ctions	3.	). 18t	Jun2012).		
Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m)	ment ent (m)	9 O/H, E fe	ence line. 10.000 Yes 15.200			<b>ast</b> 8 8 7	Now 8 8 6	Municipal Problem ( ch Road Explanati Passing b (Guardrai	Y/N) 1 ion of C poth direct	ondit ctions	3.	p). 18.	Jun2012).		
Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Stand	ment ent (m)	9 O/H, E fe	<ul> <li>Interview of the second second</li></ul>			<b>ast</b> 8 8 7	Now 8 8 6	Municipal Problem ( ch Road Explanati Passing b (Guardrai	Y/N) 1 ion of C both direct l post br	ondit ctions	3.	b). 18.	Jun2012).		

					Supers	tructure					
Bridge Com	ponent			Last	Now	Explanation of Condition					
(Primary Spa	in : HC, 1 Spar	ns, Lengths(	m): 6.1, A-Ide	nt Num	ber:)						
Special Feat	ures				_						
Special Feat	ure				X						
(Type : )											
Special Feat	ure				Х						
(Type : )											
Wearing Surf	ace/Deck Top	Detail Rating	s								
	N (%) 1 (%) 2 (%)										
Last	0	0	0	0		Snow at curbs.					
Now	10.0	0.0	0.0	0	).0						
Wearing Surf	ace			5 7		(Longit. crack over length of bridge at G1,2 joint where staining is					
(Material T						occuring; likely lateral joint failure (photo). 18Jun2012).					
	(mm) : <b>150</b> )					Longit. cracks reflect through ACP along girder lines.					
<b>`</b>	ection Problem	n No									
(Y/N)											
Deck Top				N N		ACP covered.					
Deck Rideab	ility			8	7						
Deck Joints				N	N	(Buffer angles. 26Jan2010) - Covered by ACP.					
Bump (Y/N	<u> </u>	No		IN	IN						
· · ·	•	INU		4	4	Demonstrations for means the two similars					
Deck Draina	•	NI-		4	4	Damage to legs from seepage btwn girders.					
Drains Clog		No		4 N							
Curbs/Median					N	Asphalt is too deep, curb is only 125mm high. (Curb face damage with exposed void at SE (photo). 18Jun2012).					
	: Standard)										
	ercent Area)	0									
Bridge Rail				7	7	Double layer.					
(Type : <b>GA</b>	LVANIZED ST	EEL FLEX B	EAM)			_					
Bridge Rail P	osts			7	7	-					
(Type : GA STEEL)	LVANIZED PC	ST STEEL;	BALVANIZED	POST							
	lasta Casting			7	7	-					
Bridge Rail/P				/	7						
	LVANIZED)										
Sidewalk				X	X						
Girder Detail	Ratings										
Jacob Dotain	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last	0	0	0		0	1					
Now	0	0	0	-	0	1					
Girders		v	<b>U</b>	4	4	Staining on bottom of legs of curbs and 1st interior girder.					
	te Inspection D	ate 29-Nov	-2012	+	-+						
Cracking (	•	Yes	-012			<ul> <li>Narrow shear crack G6 at S end.</li> <li>G11 wide crack in AZ, 1 leg - photo. W curb unit wide longit. cracking</li> </ul>					
<b>v</b> `	ercent Area)	0				in AZ in 1 leg only.					
Lift or Conne	,	No				(G2 wide longit. crack outside AZ (photo). 18Jun2012). G12 at AZ wide cracks both legs in AZ.					
Grouted (Y/N		NO				G2,11 wide cracks in 1 leg in AZ					
(Number Of (	Girders : <b>12</b> )			-		G8 end diaphragm cored. G2-5 drift spalls. Lift pockets not grouted (photo).					
Span Alignn	nent Problems	5									
Vertical (Y/		No									
Horizontal	•	No				1					
	ure General R			4	4						
Saporotruot		9									

Alberta Transportation

					Subst	ructure					
Bridge Com	ponent			Last	Now	Explanation of Condition					
Abutments											
(Extended	Backwall Pile	es (Y/N) : <b>Y</b> )									
(Extended	Backwall Pile	s Spacing(mr	n) : <b>1300</b> )								
(Total Numb	er of Caps/Co	orbels : <b>5:5</b> )			Top caps 355 x 305 on 305 x 305 caps with 305 x 305 subcap.						
Bearing Sea	ts/Caps/Corb	els Detail Rati	ngs								
	N (count) 1 (count) 2 (count)										
Last	0	0	0	0							
Now	0	0	0		0						
Bearing Seats/Caps/Corbels					6						
(Type : <b>TR</b>	EATED TIME	BER)									
(Depth(mn	n) : <b>355</b> )										
(Width(mm	n) : <b>305</b> )										
Backwalls/B	reastwalls			4 4		Vertical T & G sheathing.					
Greatest Height (m) 3.40						Both abut pushing in a base. A1 has additional bracing to contain. (Some material spilling through has been contained with breastwall - photos. 26Jan2010) - No action at this time.					
Wingwalls				6	6						
(Total Numb	er of Bearing	Piles · <b>a·a</b> )									
· · · · · · · · · · · · · · · · · · ·		1 1103 . <b>3.3</b> )									
r iles Detail I	Piles Detail Ratings N (count) 1 (count) 2 (count)				unt)						
Last		0	0		0						
Now	0	0	0	_	0	2 split piles constrained with steel clamps A1P7 & A2P2 - phot					
Piles	0	0		5 5		(Cored 2012. 18Jun2012).					
Paint/Coatin	0			<u> </u>	X						
Faint/Coatin	g			^	^						
Abutment St	tability			4 4		Both abut caps slightly rotated approx 30mm. Backwalls bowing. Struts in place - no further action at this time.					
Scour/Erosic	on			5	N	(0.8m minor scour under bridge. 18Jun2012).					
Piers/Bents											
(Type : )											
	er of Caps/Co	orbels : )									
· · · · · · · · · · · · · · · · · · ·		els Detail Rati	ngs			]					
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last											
Now											
Bearing Sea	its/Caps/Corb	els		Х	Х						
(Type:)											
(Depth(mn	n):)										
(Width(mm											
	er of Bearing	Piles : )									
Piles Detail I											
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last											
Now											
Pier Shaft/Pi	iles			Х	Х						
Greatest H											
	its/Sheathing			5	5	Piles 1-3, 7-9 struts bear on caps.					
Nose Plate					Х						

Alberta Transportation

## Bridge Inspection & Maintenance System (Web 2005)

74611 -1 Bridge

			structure					
Bridge Component	Bridge Component			Explanation of Condition				
Paint/Coating		X	X					
(Colour Description : )								
(Colour Code : )								
Pier Stability		X	X					
Scour			X					
Debris (Y/N)	ebris (Y/N) Yes			Debris on struts; (beaver dam d/s (1.0m). 18Jun2012).				
Substructure General Rating			4					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction : E)								
(D/S Direction : W)								
Alignment		7	7					
Bank Stability			N	Snow				
HWM (m below Top of Curb)	1.6							
Drift (Y/N)	Yes			Drift on pile strut.				
Slope Protection		5	5					
(Type : NATURAL; NATURAL	.)							
Guidebank/Spurs		X	X					
Adequacy of Opening		7	6					
(Fish Compensation Measure 1	NONE)							
(Fish Compensation Measure 2	NONE)							
Channel General Rating		5	5					

					Maintenance R	ecommend	ations						
Inspector Recommendations			Year	Inspecto	or Comments		Department Co	ommen		Target Year	Est. Cost	Cat #	
REPAIR/REPLAC	E BRIDGE RAIL												
SEAL CURBS													
PATCH DECK													
OVERLAY DECK													
STRAIGHTEN/REPLACE MEMBERS													
WASHING													
SHOTCRETE REPAIRS													
CORE TIMBER CAPS/CORBELS			2013	Old piles	s, check for rot.								
REPAIR/REPLAC	E TIMBER CAPS												
REPAIR ABUTM	ENT SCOUR/EROSI	ON											
PLACE ADDITIO													
	ACCUMULATION												
INSTALL STRUT	S												
OTHER ACTION			2015	· · · · ·	ockets, if not yet done.								
OTHER ACTION			2013	· · ·	curb unit. 18Jun2012).								
OTHER ACTION			2013	· · ·	e guardrail post. 18Jun2012	2).							
OTHER ACTION			2013	Assess r	repairs/replace options.								
OTHER ACTION								_					
Structural Condition Rating (Last/Now) (%)			44.4/44.	.4/44.4 Sufficiency Rating (Last/ (%)			57.9/56.9	Es	t. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	Bridge life depends "4" rated girder requ	on pile uires no	conditior action at	i; 54yr old this time.	l timbers look OK at this tim	ie.	Department Comments						
Maintenance Rev	iewed By						Date			E	Estimated Total	0	
Proposed Long-T	erm Strategy												
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspecto	or's Name	Kris Bo	osters			Previous	Previous Assistant's Name						
Next Inspection E	Date	29-Feb	-2016			Previous	Inspection Date		18-Jun-2012				
· · · · · · · · · · · · · · · · · · ·	(Default) (months)	39											
Comment	. , , , , , ,												