						Bridge I	nspe	ction						
Bridge File Number 00992 -1 Bridge					Form Ty					SG				
Year Built/Year 1955/1955					Lot No.			1						
Supstr							Inspector Name				Randy Bredo			
Bridge or Town Name FORT MACLEOD									BR CLS A					
Located Over WILLOW CREEK, 2.12.25, WATE				VATERC	CRS-ST	Ass				Bryce Clayto	n			
Located On	8	311:02 C	1 4.003				Ass	Assistant Class						
Water Body Cl./Year					Inspection Date			20-Jan-2010						
Navigabil. Cl./Year						Data Entry By					Jill Potts			
Legal Land Loca	tion N	W SEC	24 TWP	9 RGE 26	W4M			Data Entry Date 12-May-2011						
Longitude, Latitude -113:24:26, 49:45:14					Reviewer N					Garry Roberts				
Road Authority Alberta Transportation (AIT)					Review Date				25-Mar-2010					
Contract Main. A	rea C	CMA26				Dept. Reviewer Name			ame	Tim Davies				
Clear Roadway/S	Skew 7	7.3 /					Dept. Review Date				20-May-201	1		
AADT/Year	1	,240 / 20	010 (A)				· ·	ow-Up		-		-		
Road Classificati	ion F	RLU-2070	G-60											
Detour Length (k	(m) 1	0												
Allowable Load (	Allowable Load (t): Single CS1 39 GIRDER Sem				S2 51 SIRDER			Train		3 63 RDER		> On Criti >Critical M	cal Spans ⁄Iember	
Design Loading:		HS20	C										> Primary	Span
					F	Posting I	nform	nation						
Required Load Posting (t)			Single					Semi				Truc	k Train	
Posted Loading (	(t)			Single			Sen					Truc	k Train	
Posted:	Lane	NB At Junction (Y		n (Y/N)	No	In Advance (Y/N)		No	At B	ridge (Y/N)	No			
Posted:	Lane	SB		At Junctio	n (Y/N)	No		In Adva	ance (Y	′/N)	No	At B	ridge (Y/N)	No
Remarks Not required.														
Hazard Marker A	At Bridge	∋ (Y/N)	Yes											
Remarks {400mm too low. May			/Jay 10, 2	2009 CP	inspe	ction}								
Other Sign Types Curve signs, 85 km/hr			-											
					U	Itilities (I	Locat	ed at)						
Utility Attachmen	nts TEI	LEPHON	IE UTILIT	LIES-PHO	NE LINE	; TELEP	HONE	E UTILI	TIES-B	ell C	anada Fibre (	Optic	on outside fa	scia Aug 2005
Telephone West r/w and under West curb.					Gas	;								
Power	1 wire c	e crosses 100m North of bridge.			e.		Municipal							
Others	Water p	r pump @ NW. Telus cable or cab nead 10m East.				sion,		olem (Y	′/N) N	lo				
Remarks														
						Approa	ich R	oad						
					Las	t Now	Exp	lanatio	on of Co	ondi	tion			
Horizontal Alignment			5	5	Curve at both ends of bridge limiting sight distance. Rise to South.					se to South.				
Vertical Alignment			5	5										
Roadway Width (m) 7.300														
Approach Bump		6	6											
Guardrail (Y/N)			Yes				Not thrie beam.							
Guardrail					6	5								
Length (m)			99.000											
Current Standa	ard (Y/N	)	No											
			Turn Do	wn			1							
Termination Ty	Drainage					Undermined at SW and SE corners.								
					3	6	Und	lermine	d at SV	V and	d SE corners.			

Bridge ComponentLastNowExplanation of Condition(Primary Span : RB, 3 Spans, Lengths(m): 21.9-27.4-21.9, A-tent Number: A0237-01)Special FeatureXSpecial FeatureX(Type :)Special FeatureX(Type :)Special FeatureX(Type :)Wearing Surface/Deck Top Detail RatingsN (%)1 (%)2 (%)3 (%)Last00Now0Now0Now6Kearing Surface6Mearing Surface6Mearing Surface6COAT)CONCRETE - CONVENTIONAL CHIP SEAL	
Special Features         Special Feature       X         (Type :)       X         Special Feature       X         (Type :)       X         Wearing Surface/Deck Top Detail Ratings       X         N (%)       1 (%)       2 (%)       3 (%)         Last       0       0       0         Now            Wearing Surface       6       6       Chip coat on concrete & polymer overlay.         (Material Type : CONCRETE - CONVENTIONAL CHIP SEAL       Chip coat on concrete & polymer overlay.	
Special FeatureX(Type :)XSpecial FeatureX(Type :)X(Type :)XWearing Surface/Deck Top Detail Ratings $X$ N (%)1 (%)2 (%)Last00Now00Now00Wearing Surface6Mearing Surface6Chip coat on concrete & polymer overlay.	
(Type : )       X         Special Feature       X         (Type : )       X         Wearing Surface/Deck Top Detail Ratings       V         N (%)       1 (%)       2 (%)       3 (%)         Last       0       0       0         Now       Image: Concrete termination of the second sec	
Special Feature       X         (Type :)       X         Wearing Surface/Deck Top Detail Ratings       Image: Constant of the second sec	
(Type : )       Vearing Surface/Deck Top Detail Ratings       Image: Surface/Deck Top Detail Ratings         N (%)       1 (%)       2 (%)       3 (%)         Last       0       0       0         Now       Image: Surface/Deck Top Detail Ratings       Image: Surface/Deck Top Detail Ratings         Wearing Surface       6       6         (Material Type : CONCRETE - CONVENTIONAL CHIP SEAL       Chip coat on concrete & polymer overlay.	
Wearing Surject Top Detail RatingsImage: Second Colspan="6">Image: Secon	
N (%)1 (%)2 (%)3 (%)Last000Now000Wearing Surface66(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL6	
Last       0       0       0       0         Now       Image: Constant of the second sec	
Now       Image: Concentration of the second s	
Wearing Surface       6       6       Chip coat on concrete & polymer overlay.         (Material Type : CONCRETE - CONVENTIONAL CHIP SEAL       6       6	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)	
COAT)	
(Thickness(mm) : <b>50</b> )	
Deck Top N N	
Deck Rideability 7 7	
Deck Joints     5     3     {Top of glands split, slight leakage on North abutment b	etween C1 8
G2. May 10, 2009 CP inspection	etween Gra
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))	
(Fixed Type : )	
Gap Size (mm) Gap Location	
65 North - A2	
70 South - A1	
Deck Drainage 8 6	
Drains Clogged (Y/N) No	
Curbs/Median 5 5	
(Curb Type : Standard)	
Scaling (Percent Area) 5	
Bridge Rail 6 5 Posts re-habed.	
(Type : STEEL BRIDGE TUBE)	
Bridge Rail Posts 6 5	
(Type : CONCRETE;CONCRETE) 30% paint failure.	
Bridge Rail/Posts Coating 3 4	
(Type : <b>PAINT</b> )	
Sidewalk X X	
Circler/Deam	
Girder/Beam       7       3       {1 small cracked weld at end of coverplate span 2 girde	r 3 Mov 10
Flance z z 2009 CP inspection}	1 5. Way 10,
Flange     7     7     7       Web     7     7     7	
Vveb     7     7       Stiffeners     7     7       7     7	
Splice 7 7	

Alberta Transportation

re anation of Condition ar: A0237-01) s of girders re-painted @ abutment. 2% corrosion @ bottom es. May 10, 2009 CP inspection} n rings repainted @ abutments. Pier rocker bearings are appling to walk off masonry plates with enough force to distort the or bolt. Baclwall chipped out 30mm to allow expansion of rs. Abut brgs have been reset & pier 1 has 1 missing shoulder & 2 backed off shoulder bolts. May 10, 2009 CP inspection} plates modified to allow movement. bow transverse cracks at approx 400mm o.c. in bending areas approx 1500mm in neutral areas. All cracks have leaching s.
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approx 1500mm in neutral areas. All cracks have leaching 5.
1 rocker exp 55mm with only 30mm of room left. AB's badly P1. May 10, 2009 CP inspection}
e anation of Condition
n backwall chipped to allow expansion
in walls
corrosion on nose plates. May 10, 2009 CP inspection}
SURFACE CORROSION @ NOSEPLATE
th hill slowly sliding towards river, may cause problems later. 10, 2009 CP inspection}

			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Debris (Y/N) Yes				{Large log caught on pier. Other large drift in channel. May 10, 2009 CP inspection}				
Substructure General Rating			5					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction : W)				Access trail under Span 1				
(D/S Direction : E)				{Steep cut @ South abutment but face of cut is 10m from abutment. May 10, 2009 CP inspection}				
Alignment			7					
Bank Stability			5	{SW bank active eroding and moving towards channel, OK for now. May 10, 2009 CP inspection} Banks steep cut				
HWM (m below Top of Curb)				No visible HWM				
Drift (Y/N)	Yes			{Large drift in channel. May 10, 2009 CP inspection}				
Slope Protection			6	Rip rap at South toe of slope				
(Type : <b>RIP RAP; RIP RAP</b> )								
Guidebank/Spurs			Х					
Adequacy of Opening			8					
(Fish Compensation Measure 1	: NONE)							
(Fish Compensation Measure 2	: NONE)							
Channel General Rating		6	6					

			Maintenance Recommen	dations				
Inspector Recommendations	Year	Inspector Comm	ents	Department Co	omments	Target Y	'ear Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL								
GALVANIZE/PAINT BRIDGE RAIL								
RETROFIT BRIDGE RAIL								
SEAL CURBS								
PATCH DECK								
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS	2011	{Repair leaking joinspection}	oint. May 10, 2009 CP					
RESET/ PAINT BEARINGS	2011	& weld keepers s masonry plate. R	ngs & install new anchor bolts so rocker does not walk off the Replace with neoprene pads May 10, 2009 CP inspection}	•				
REPAINT SUPERSTRUCTURE								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION	2011	{Remove drift fro inspection}	om pier. May 10, 2009 CP					
OTHER ACTION	2011	Repair undermining at SW and SE approx 1m grout		3				
OTHER ACTION	2011	{Reset hazard m 10, 2009 CP insp	arkers to standard height. Ma	y				
OTHER ACTION	2011	{Repair 1 cracker 2009 CP inspect	d coverplate weld. May 10, ion}					
OTHER ACTION	2011	closest hwy inspected even	ion cycle to coincide with ection cycle so this bridge can ery 21 months until bearings y 10, 2009 CP inspection}					
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	61.1/44	.4 Sufficio (%)	ency Rating (Last/Now)	63.5/55.7	Est. Repl. Yr	2028 Main	nt. Reqd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments				
Maintenance Reviewed By				Date		Estimated	Total 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								

Proposed Action			
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name	
Next Inspection Date	20-Apr-2013	Previous Inspection Date	19-Jan-2010
Inspection Cycle (Default) (months)	39		
Comment			