

Bridge Inspection									
Bridge File Number	81237 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1989/1989				Lot No.	3			
Bridge or Town Name	GRAND CENTRE				Inspector Name	Kris Bosters			
Located Over	BEAVER RIVER, 7, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	897:12 C1 23.714				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	05-Jan-2012			
Legal Land Location	NE SEC 11 TWP 62 RGE 2 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-110:10:56, 54:20:59				Data Entry Date	31-Jan-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA08				Review Date	19-Jan-2012			
Clear Roadway/Skew	9.5 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	940 / 2010 (A)				Dept. Review Date	02-Feb-2012			
Road Classification	RCU-210-110				Follow-Up By				
Detour Length (km)	17								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CS750						----> Primary Span		

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Mounted on flexbeam post, 4 m from end of bridge.								
Other Sign Types	Beaver River								

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others	Alberta supernet West r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curves at crests of both river banks about 800m in both directions.				
Vertical Alignment			7	7					
Roadway Width (m)	9.400				Wide transverse crack at both approach ACP.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Scraps & dents but functioning.				
Guardrail			6	5	1 br to gr bolt at all 4 corners is loose. - photo				
Length (m)	99.000				Not thrie beam transition.				
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	4	2-100mm deep erosion scars on N headslope.				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CBC, 2 Spans, Lengths(m): 40-40, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow/ice covered.
Last					
Now	10.0				
Wearing Surface			6	6	Birdbath @ SE & NW corners - photo. Random wide cracking. Not sealed - photo.-13-Aug-2008
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	N	Loose plates North abutment - photo. 2 sheared bolts.-13-Aug-2008 50% snow covered. N joint NBL has a bolt on cover plate. N joint SBL has no cover plate but gland has been sealed with a rubberized compound.
Temperature (deg. C)		-2			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
46		South abutment			
46		North abutment			
Deck Drainage			5	N	Bird baths at SE and NW corners of bridge deck. 1 weep tube broken off at underside of deck near South abutment, West side - photo. No signs of water coming out of broken tube. Narrow vertical crack on curb exterior at base of bridgerail posts, typical - photo.-13-Aug-2008
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	Minor plow scrapes. Snow/ice covered facia has a few narrow vertical cracks. Rust stains on facia under posts.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	7	A few minor nicks and scratches.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		8	8		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		8	7		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBC, 2 Spans, Lengths(m): 40-40, A-Ident Number:)				
Girders		5	5	Girders sagged est. 25 mm. Medium hairline cracks found in web near North abutment (typ. of DBT girders). Top flange patch near centerline at North abutment sounds solid. S1G1 spalled @ SW corner - photo.-13-Aug-2008
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		7	7	Steel angles.
Bearings		7	7	
Temperature (deg. C)	-3			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	A few narrow vertical cracks.
Wingwalls		6	5	Patch at SW has spalled off random narrow cracking.
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	4	2-100mm deep erosion channels on N headslope.
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		6	6	galvanized
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	Very sandy/silty through entire river valley. Bank erosion both U/S & D/S of bridge, no problem.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			Brush growing under North span girders - photo.
Slope Protection		8	8	Class II.
(Type : RIP RAP)				
Guidebank/Spurs		8	8	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace sheared bolts @ North abutment plate & tighten loose bolts at both abutments, if not already done.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2012	Replace bridge plaques.					
OTHER ACTION	2012	Tighten BR/GR bolts at all 4 corners.					
OTHER ACTION	2012	Trim brush under North span girders.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	61.5/60.2	Est. Repl. Yr	2060	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	onitor broken weep tube for leakage onto girder, repair as necessary.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	05-Apr-2015		Previous Inspection Date	13-Aug-2008			
Inspection Cycle (Default) (months)	39						

Comment	
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