

Bridge Inspection										
Bridge File Number	79325 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1983/1983				Lot No.	2				
Bridge or Town Name	BENTLEY				Inspector Name	Owen Salava				
Located Over	BLINDMAN RIVER, 3.78, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	20:04 C1 0.180				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	11-Jul-2012				
Legal Land Location	SE SEC 28 TWP 40 RGE 1 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-114:04:29, 52:27:58				Data Entry Date	20-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA18				Review Date	31-Jul-2012				
Clear Roadway/Skew	11 / -3 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	4,480 / 2011 (A)				Dept. Review Date	21-Aug-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	5									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS300						----> 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									
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types	River I.D, Route Info								

Utilities (Located at)										
Utility Attachments										
Telephone	East r/w.				Gas	30 m East.				
Power	Light standards @ intersection.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Hwy 12 intersection 150 m South.					
Vertical Alignment		7	7						
Roadway Width (m)	12.200								
Approach Bump		7	7						
Guardrail (Y/N)	Yes								
Guardrail		5	5	35 m. @ shortest point. Not thrie beam.					
Length (m)	35.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage		5	5						
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 13-18-13, A-Ident Number: A0931-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	10	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Some wear @ abutment joints.
(Material Type : CONCRETE)					
(Thickness(mm) : 60)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	6	(Slight leak NW corner. 07Feb2008).
Temperature (deg. C)		25			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
56		S. abut			
60		N. abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			N	6	Chipped 200mm on ext of curb cover plates at NW & SE. Minor grader scrapes. Vertical cracks every est 600mm - narrow.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Missing eight sleeve bolts - (photo) Minor spalls on 40% of post grout pads.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	5	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			8	8	
Web			8	8	
Stiffeners			8	8	
Splice			8	8	
Weld			8	8	
Diaphragms/Cross Frame			8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 13-18-13, A-Ident Number: A0931-01)				
Paint Condition		6	6	Scaling rust at corners. Weathering steel. Painted brown end 2.1m at abuts.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		5	6	Medium scaling @ SE & NW bearing grout pads. A/B slightly bent. A2 Superficial corrosion at abutments at ext bearings. A1, P1,2
Temperature (deg. C)	25			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Minor efflorescence at transverse cracks at exterior.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 7:7)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		4	4	5% superficial corrosion mainly along groundline.
(Colour Description : BROWN)				
(Colour Code : 30252)				
Pier Stability		6	6	Uneven backfill of 1.5m on P2.
Scour		7	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	South bank has minor erosion 30 m D/S.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			1 large tree on SW headslope (photo).
Slope Protection		5	5	Some rock near abuts.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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	2012	Install 8 sleeve bolts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/66.7	Sufficiency Rating (Last/Now) (%)	53.3/55.5	Est. Repl. Yr	2040	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Next rehab redo post grout pads, repair curb chips & install all missing rail bolts, (slotted holes in rail may need adjusting).		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2006.05.09 Deck rehab in 2012, area 480m2. Chip Seal 2020, rehab 2050 replace 2080.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava	Previous Assistant's Name					
Next Inspection Date	11-Apr-2014	Previous Inspection Date	08-Dec-2010				
Inspection Cycle (Default) (months)	21						
Comment							