

Bridge Inspection									
Bridge File Number	75111 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1961/1961				Lot No.	2			
Bridge or Town Name	SEEBE				Inspector Name	Garry Roberts			
Located Over	BOW RIVER, 2.13, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	1X:02 C1 2.507				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	30-Jul-2012			
Legal Land Location	SW SEC 4 TWP 25 RGE 8 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-115:03:51, 51:05:48				Data Entry Date	02-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA28				Review Date	07-Aug-2012			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,030 / 2011 (A)				Dept. Review Date	06-Sep-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	50								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> 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)	No								
Remarks									
Other Sign Types	Curve.								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	West side.				Gas				
Power	Both ends of bridge - 4 & 2 lines. 4 wires 15m West of c/l.				Municipal				
Others	Fibre optics @ West r/w.				Problem (Y/N)		No		
Remarks									

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			5	5	Sharp curve at North end.				
Vertical Alignment			6	6					
Roadway Width (m)	11.000								
Approach Bump			4	4	Approx 6m2 pot holes forming at North end both lanes.				
Guardrail (Y/N)	Yes				Incorrect lap at NW and SE.				
Guardrail			3	3	3 Broken posts @ NW, 6 at NE and 1 at SE.				
Length (m)	65.000				Not thriebeam.				
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	5	Minor erosion starting at SE.				
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 4 Spans, Lengths(m): 30.5-30.5-30.5-30.5, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Worn @ pier joints. Worn to concrete @ several deck joint locations.
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )			Chipcoat on epoxy on concrete - 80mm.		
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	3	2 loose cover plate bolts and 1 sheared at NBL of P1 and P3. Missing 1 bolt at P3 curb cover plate.
Temperature (deg. C)		20	P1, P3 leaks onto pier.		
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
70		South abutment			
90		South pier			
65		Center pier			
70		North pier			
75		North abutment			
Deck Drainage			6	4	Retrofit drain @ span 2 @ East. Staining at P1 and P5 from joint leakage.
Drains Clogged (Y/N)		No			
Curbs/Median			4	3	Heavy scaling @ North approach curbs and at Sp.3 East. Approx 1m2 spalling at West curb and 2.5m2 at East curb.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail			6	6	Minor damage 2 rails East midspan #3.
(Type : <b>BRIDGE TUBE</b> )			5% of bolts with insufficient length. Missing 1 A/B at Sp.1 east side over P.1 and A1.		
Bridge Rail Posts			3	3	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			5	5	
(Type : )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>PO, 4 Spans, Lengths(m): 30.5-30.5-30.5-30.5, A-Ident Number: )</b>				
Girders		7	7	Minor spalls & cracks @ shoe plates.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : <b>26</b> )				
Diaphragms/Cross Frame		7	7	
Bearings		5	5	50% corrosion at bearings - worst at exteriors.
Temperature (deg. C)	20			
(Expansion Type : <b>SLIDING PLATE</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Spalled & corrosion stains @ span #4. Corrosion stains @ all spans.
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Cracked @ exterior bearings at all piers.
Bearing Seats/Caps		5	5	
(Type : <b>CONCRETE</b> )				Vertical cracks in massive piers.
(Total Number of Bearing Piles : <b>0:0:0</b> )				
Pier Shaft/Piles		7	7	Concrete rubble on P1 and P2 from joint installation. Staining at P1 and P3 from joint leakage.
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Corrosion on 100% of all nose plates.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	N	To deep to determine
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	5.0			No visible HWM. Beaver house under Sp.4. Isolated drift on banks.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 2 missing post A/B.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Repair curb scaling / spalling approx 4m2.					
PATCH DECK	2012	Repave North approaches.					
SEAL DECK	2012	Reapply chip coat.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Repaired 3 sheared joint bolts. Tighten 2 loose bolts. Check all joint cover plates.					
RESET/ PAINT BEARINGS	2012	Consider rehab to neoprene. Blast and recoat as minimum.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2012	Replace 10 guardrail.					
OTHER ACTION	2012	Investigate/repair pier cracks. Clean pier tops.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.1/47.1</b>	Est. Repl. Yr	2025	Maint. Req. (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	30-Apr-2014		Previous Inspection Date	29-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							