Bridge Inspection

Bridge File Number	75112 -1 Bridge	Form Type	PSR
Year Built/Year Supstr	1961/1961	Lot No.	2
		Inspector Name	Garry Roberts
Bridge or Town Name	SEEBE	Inspector Class	BR CLS A
Located Over	CPR	Assistant Name	
Located On	1X:02 C1 2.078	Assistant Class	
Water Body Cl./Year		Inspection Date	30-Jul-2012
Navigabil. Cl./Year		Data Entry By	Lauren Korte
Legal Land Location	NW SEC 33 TWP 24 RGE 8 W5M	Data Entry Date	02-Sep-2012
Longitude, Latitude	-115:03:49, 51:05:34	Reviewer Name	Tom Carey
Road Authority	Alberta Transportation (AIT)	Review Date	07-Aug-2012
Contract Main. Area	CMA28	Dept. Reviewer Name	Tim Davies
Clear Roadway/Skew	11 /	Dept. Review Date	06-Sep-2012
AADT/Year	1,030 / 2011 (A)	Follow-Up By	
Road Classification	RAU-211.8-110		
Detour Length (km)	50		

Allowable Load (t):	Single	CS1 38 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:		HS20					---> Primary Span

Posting Information

Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)				No							
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.										

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	
Other Sign Types	

Utilities (Located at)

Utility Attachments	OTHER UTILITIES-OTHER LINES; TELEPHONE UTILITIES-PHONE LINE		
Telephone	Under bridge @ railway.	Gas	East of overpass.
Power	West side - 4 lines.	Municipal	
Others	Telegraph lines under deck @ South pier. Fibre optics @ West r/w & under bridge.	Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	On crest curve.
Vertical Alignment		6	6	
Roadway Width (m)	12.000			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Has steel I posts @ 0.9m spacing but insufficient posts @ 1.9m spacing. 2 split posts at NW. Not thriebeam.
Guardrail		6	4	
Length (m)	99.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	

Approach Road

	Last	Now	Explanation of Condition
Approach Road General Rating	**6**	**6**	

Superstructure

Bridge Component	Last	Now	Explanation of Condition
(Primary Span : **PO, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:**)			
Special Features			
Special Feature		X	
(Type :)			
Special Feature		X	
(Type :)			

Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last	0	0	0	0
Now	0.0	0.0	0.0	0.0

Wearing Surface	7	7	
(Material Type : **CONCRETE - CONVENTIONAL CHIP SEAL COAT**)			
(Thickness(mm) : **50**)			
Lateral Connection Problem (Y/N) : No			
Deck Top	N	N	
Deck Rideability	7	7	
Deck Joints	7	7	
Temperature (deg. C) : 20			
(Expansion Type : **GLAND (WABO-MAUER, TRANSFLEX, ETC)**)			
(Fixed Type :)			

Gap Size (mm)	Gap Location
75	South abutment
70	South pier
75	North pier
75	North abutment

Deck Drainage	4	4	Drains disconneced @ Both sides of North pier.
Drains Clogged (Y/N) : No			
Curbs/Median	4	4	Spall at SW concrete curb 500 X 260 X 200.
(Curb Type : **Standard**)			
Scaling (Percent Area) : 2			
Bridge Rail	7	7	Missing 1 A/B at West rail over pier 2 and 1 at East rail Sp. 3- 2 A/B nuts with insufficient thread at SW.
(Type : **BRIDGE TUBE**)			
Bridge Rail Posts	3	3	
(Type : **GALVANIZED POST STEEL;GALVANIZED POST STEEL**)			
Bridge Rail/Posts Coating	6	6	
(Type :)			
Sidewalk	X	X	

Girder Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last	0	0	0	0
Now	0	0	0	0

Superstructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
(Primary Span : **PO, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:**)				
Girders		7	7	
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : **18**)				
Diaphragms/Cross Frame		7	7	Diaphragms have 5% corrosion @ South abutment, North abutment re-coated.
Bearings		7	7	
Temperature (deg. C)	20			
(Expansion Type : **SLIDING PLATE**)				
(Fixed Type : **PINNED BEARING**)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Some scaling @ deck underside exit.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		**7**	**7**	

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Abutments				
Bearing Seats/Caps		6	6	
(Type : **CONCRETE**)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : **PIER-COLUMN**)				
Bearing Seats/Caps		6	6	
(Type : **CONCRETE**)				
(Total Number of Bearing Piles : **4:4**)				Random cracks in all piles.
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Debris (Y/N)	No			
Substructure General Rating		**6**	**6**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	
(Type : **NATURAL; NATURAL**)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		**7**	**7**	

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 2 post A/B. Replace 2 posts at NW approach.				
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Re-connect drains at both ends of P2.				
OTHER ACTION	2012	Repair SW curb spall 0.03m3.				
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**72.2/72.2**	**Sufficiency Rating (Last/Now) (%)**	**64.7/64.7**	Est. Repl. Yr	2035	Maint. 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	30-Apr-2014	Previous Inspection Date	29-Sep-2010
Inspection Cycle (Default) (months)	21		
Comment			