Bridge Inspection

Bridge File Number	72485 -1 Bridge	Form Type	PCS
Year Built/Year Supstr	1954/1954	Lot No.	2
		Inspector Name	Brian Pientsch
Bridge or Town Name	DEADWOOD	Inspector Class	BR CLS A
Located Over	TRIBUTARY TO ROUSSEAU CREEK, 8.10.44.2.2, WATERCRS-ST	Assistant Name	
		Assistant Class	
Located On	690:02 C1 8.799	Inspection Date	20-Mar-2013
Water Body Cl./Year		Data Entry By	Theresa Lacusta
Navigabil. Cl./Year		Data Entry Date	09-Apr-2013
Legal Land Location	SW SEC 30 TWP 89 RGE 22 W5M	Reviewer Name	Eric Carcoux
Longitude, Latitude	-117:30:04, 56:44:27	Review Date	03-Apr-2013
Road Authority	Alberta Transportation (AIT)	Dept. Reviewer Name	
Contract Main. Area	CMA04	Dept. Review Date	
Clear Roadway/Skew	9.1 /	Follow-Up By	
AADT/Year	210 / 2012 (A)		
Road Classification	RCU-209-110		
Detour Length (km)	6		

Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 66 GIRDER	---> 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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks								

Hazard Marker At Bridge (Y/N)	Yes
Remarks	ALL FOUR CORNERS.
Other Sign Types	

Utilities (Located at)

Utility Attachments			
Telephone	East r/w	Gas	
Power	2 wire OH	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	APPROACHES N & S 30 M WEST
Vertical Alignment		8	8	
Roadway Width (m)	9.900			Both approaches have 50mm settlement.
Approach Bump		7	3	
Guardrail (Y/N)	Yes			Not thrie beam.
Guardrail		4	5	
Length (m)	23.300			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		**7**	**7**	

Superstructure

Bridge Component		Last	Now	Explanation of Condition
(Primary Span : **PGO, 3 Spans, Lengths(m): 6.1-6.1-6.1, 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	5.0			
Wearing Surface		4	4	CONCRETE OVERLAY 200mm x 300mm pothole on center span, covered in tar.
(Material Type : **CONCRETE**)				
(Thickness(mm) : **100**)				
Lateral Connection Problem (Y/N)	No			
Deck Top		N	N	
Deck Rideability		7	7	
Deck Joints		N	N	
Bump (Y/N)	No			
Deck Drainage		7	7	
Drains Clogged (Y/N)	No			
Curbs/Median		5	5	
(Curb Type : **Standard**)				
Scaling (Percent Area)	50			
Bridge Rail		4	9	DOUBLE LAYER FLEXBEAM
(Type : **GALVANIZED STEEL FLEX BEAM**)				
Bridge Rail Posts		3	9	
(Type : **POST STEEL;POST STEEL**)				
Bridge Rail/Posts Coating		7	9	
(Type : **GALVANIZED**)				
Sidewalk		X	X	
Girder Detail Ratings				
	N (count) / 1 (count) / 2 (count) / 3 (count)			
Last	0 / 0 / 0 / 0			
Now				
Girders		4	4	10 girders in S1 & S3 have wide cracking in the anchorage zone of both legs. S2 has 2 girders. Concrete sound. Curb lift pockets to be grouted Spring 2013 Contrat 11895.
Last Complete Inspection Date	20-Mar-2013			
Cracking (Y/N)	Yes			
Spalling (Percent Area)	2			
Lift or Connector Pocket Grouted (Y/N)	No			
(Number Of Girders : **36**)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		**4**	**4**	

Substructure

Bridge Component	Last	Now	Explanation of Condition
Abutments			
(Extended Backwall Piles (Y/N) : **N**)			Abutment eroding SW corner.
(Extended Backwall Piles Spacing(mm) :)			
(Total Number of Caps/Corbels : **5:5**)			
Bearing Seats/Caps/Corbels Detail Ratings			
Bearing Seats/Caps/Corbels	4	9	
(Type : **TREATED TIMBER**)			
(Depth(mm) : **300**)			
(Width(mm) : **300**)			
Backwalls/Breastwalls	4	7	Backwall scabs on E. abut.
Greatest Height (m) 3.20			
Wingwalls	4	7	
(Total Number of Bearing Piles : **7:7**)			
Piles Detail Ratings			
Piles	4	7	
Paint/Coating	X	X	
Abutment Stability	5	6	
Scour/Erosion	4	5	

Piles Detail Ratings

	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				

Bearing Seats/Caps/Corbels Detail Ratings

	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				

Piers/Bents	Last	Now	Explanation of Condition
(Type : **PIER-COLUMN**)			
(Total Number of Caps/Corbels : **5:5**)			
Bearing Seats/Caps/Corbels Detail Ratings			
Bearing Seats/Caps/Corbels	N	9	
(Type : **TREATED TIMBER**)			
(Depth(mm) : **300**)			
(Width(mm) : **350**)			
(Total Number of Bearing Piles : **7:7**)			
Piles Detail Ratings			
Pier Shaft/Piles	N	7	
Greatest Height (m) 3.50			

Bearing Seats/Caps/Corbels Detail Ratings

	N (count)	1 (count)	2 (count)	3 (count)
Last	10	0	0	0
Now				

Piles Detail Ratings

	N (count)	1 (count)	2 (count)	3 (count)
Last	14	0	0	0
Now				

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Bracing/Struts/Sheathing		4	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		6	6	
Debris (Y/N)	Yes			Few small logs.
Substructure General Rating		**4**	**6**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **S**)				Natural on W. headslope Class 1 rock on E. headslope.
(D/S Direction : **N**)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.2			HWM 18m-Apr.08
Drift (Y/N)	No			
Slope Protection		4	5	Riprap on E. headslope.
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**4**	**5**	

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2013	ACP approaches require patching.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**44.4/55.6**	**Sufficiency Rating (Last/Now) (%)**	**58.1/64.3**	Est. Repl. Yr	2028	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	Eric Carcoux	Previous Assistant's Name	
Next Inspection Date	20-Jun-2016	Previous Inspection Date	21-Oct-2009
Inspection Cycle (Default) (months)	39		
Comment			