

Bridge Inspection									
Bridge File Number	76661 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1971/1994				Lot No.	2			
Bridge or Town Name	GRANDE CACHE				Inspector Name	Russel Vanderschaaf			
Located Over	LONE TEEPEE CREEK, 8.10.58.31.8, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	40:32 C1 47.104				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	22-Aug-2012			
Legal Land Location	SE SEC 15 TWP 57 RGE 5 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-118:39:02, 53:55:17				Data Entry Date	25-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA05				Review Date	24-Sep-2012			
Clear Roadway/Skew	10.1 / 0 deg.				Dept. Reviewer Name	David Morrison			
AADT/Year	1,090 / 2011 (A)				Dept. Review Date	18-Dec-2012			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	300								
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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	too low, SE knocked down								
Other Sign Types	Curve sign, lone teepee sign.								

Utilities (Located at)									
Utility Attachments									
Telephone	North & South r/w				Gas				
Power	North r/w - 2 line.				Municipal				
Others					Problem (Y/N)		Yes		
Remarks	Line hung off bridge south side.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	No passing eastbound due to vicinity of residence.100m east.				
Vertical Alignment			7	7					
Roadway Width (m)	11.400				Intersections both directions. Insufficient posts.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			9	9					
Length (m)	34.200								
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 : SC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	70	0	0	0	
Now					
Wearing Surface			6	6	
(Material Type : MIX TYPE 1 ACP;)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			4	4	
Bump (Y/N)		No		Water leaking onto piers and between first 2 interior girders.	
Deck Drainage			4		
Drains Clogged (Y/N)		No		NO DRAINS. Water leaking between curb girder and first interior all 3 spans.	
Curbs/Median			N		
(Curb Type : Standard)					
Scaling (Percent Area)		1		Curb breaking up at N side, E pier 50mm wide. 2 lift pockets not filled with grout.	
Bridge Rail			5		
(Type : GALVANIZED STEEL FLEX BEAM;FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	

Superstructure							
Bridge Component		Last		Now		Explanation of Condition	
(Primary Span : SC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:)							
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now							
Girders			5	5	S3G10 has 80mm & 110mm hairline crack. No corrosion, staining (photo). Tie wire rust spots on S31-4 + 9-10 & S2G4 & S1G5 & G6. could only view span 2 from abuts. S1G9 has 140mm hairline crack, no corrosion, staining (photo).		
Last Complete Inspection Date		22-Aug-2012					
Cracking (Y/N)		Yes					
Spalling (Percent Area)		1					
Lift or Connector Pocket Grouted (Y/N)		No					
(Number Of Girders : 30)							
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							
(Extended Backwall Piles (Y/N) : Y)					75 x 305 planks on top of HP.		
(Extended Backwall Piles Spacing(mm) : 1650)							

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
(Total Number of Caps/Corbels : 2:2)				75 x 300 TT subcap on top of cap 5. E abut P5 only supporting about 2/3 of subcap. P4 has been widened with steel sleeve and grouted. W abut P5 bearing2/3				
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now								
Bearing Seats/Caps/Corbels		4	4					
(Type : STEEL)								
(Depth(mm) : 305)								
(Width(mm) : 360)								
Backwalls/Breastwalls		4	4				75mm gap W/200mm void @ P3 abut 1 backwall (photo). Top plank pushing in. 0.3mx0.7m void @ P5 East abut.	
Greatest Height (m)	2.00							
Wingwalls		6	6	Top backwall plank A2 pushing in.				
(Total Number of Bearing Piles : 7:7)				A2P7 split 1m long (Photo). A2P2 banded				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now							1	
Piles		4	3					
Paint/Coating		4	4				HP caps flaking.	
Abutment Stability		5	5					
Scour/Erosion		4	4				E. abut eroded behind pier 2mW x 5mL (photo).	
Piers/Bents								
(Type : PIER-COLUMN)								
(Total Number of Caps/Corbels : 1:1)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now								
Bearing Seats/Caps/Corbels		5	5					
(Type : STEEL)								
(Depth(mm) : 350)								
(Width(mm) : 370)								
(Total Number of Bearing Piles : 6:6)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last	0	0	0	0				
Now								
Pier Shaft/Piles		6	6					
Greatest Height (m)	2.50							
Bracing/Struts/Sheathing		6	6					
Nose Plate		6	6					
Paint/Coating		4	4	Piles & caps scaling.				
(Colour Description :)								
(Colour Code :)								

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		5	4	Eroded at TOE, E. abut.
Debris (Y/N)	Yes			5 old piles at pier 2
Substructure General Rating		4	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.0			(HWM lath Approx. 00/01/22)
Drift (Y/N)	No			
Slope Protection		4	4	Eroding the east headslope(photo).
(Type : NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

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	2013	Repair voids in backwalls 1 & 2.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Band A2P7					
OTHER ACTION	2013	Remove cable wiring off south side of bridge.					
OTHER ACTION	2013	Repair missing hazard markers.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	51.0/48.6	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor spall on S1G4. Monitor erosion at East pier.		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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	22-May-2014		Previous Inspection Date	17-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							