

Bridge Inspection									
Bridge File Number	72533 S-1 Bridge				Form Type	CON			
Year Built/Year Supstr	1964/1964				Lot No.	2			
Bridge or Town Name	GRANUM				Inspector Name	Garry Roberts			
Located Over	WILLOW CREEK, 2.12.25, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2:08 L1 11.339				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Sep-2011			
Legal Land Location	NW SEC 6 TWP 10 RGE 26 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-113:31:28, 49:47:44				Data Entry Date	16-Nov-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA26				Review Date	07-Oct-2011			
Clear Roadway/Skew	13.4 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	5,100 / 2010 (A)				Dept. Review Date	17-Nov-2011			
Road Classification	RFD-412.4-130				Follow-Up By				
Detour Length (km)	1								
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)		In Advance (Y/N)		At Bridge (Y/N)		
Posted:	Lane	SB	At Junction (Y/N) No		In Advance (Y/N) No		At Bridge (Y/N) No		
Remarks	Not req.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types	CREEK ID								
Utilities (Located at)									
Utility Attachments									
Telephone	East ditch				Gas				
Power					Municipal				
Others					Problem (Y/N)		No		
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Hill to North				
Vertical Alignment			6	6					
Roadway Width (m)	13.000								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Missing 2 splice bolts at NW. Wrong lap at NW and at both transitions.				
Guardrail			4	4					
Length (m)	45.000				Not thriebeam				
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			6	6					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CT, 3 Spans, Lengths(m): 24.4-33.5-24.4, A-Ident Number:)					
Special Features					
Special Feature		4	4	3 loose @ 2nd girder @ South span	
(SType : EXT SHEAR STIRRUP)				Have been tightened in the past	
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)					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	7		
Temperature (deg. C)		20			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
30		South			
35		North			
Deck Drainage		7	7	On steep grade - road drains South	
Drains Clogged (Y/N)		No			
Curbs/Median		7	6	Flexural cracks along top and inner face every 1 - 2 m.	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail		7	7	12 A/B nuts not fully engaged.	
(Type : VERTICAL BAR)					
Bridge Rail Posts		4	4		
(Type :)					
Bridge Rail/Posts Coating		6	6		
(Type :)					
Sidewalk		X	X		
Girders		5	5	GIRDERS HAVE NARROW & WIDE FLEXURAL & SHEAR CRACKS @ ABUTMENTS. Strengthened.	
Diaphragms/Cross Frame		6	6	Wide & Med WIDTH CRACKS IN SOME END DIAPHRAGMS-worst @ NE	
Bearings		6	6	Rocker at north pier. Rollers at abuts.	
Temperature (deg. C)		20			
(Expansion Type : ROLLER BEARING;ROCKER BEARING)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside		6	6		
Stains (Percent Area)		2			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 3 Spans, Lengths(m): 24.4-33.5-24.4, A-Ident Number:)				
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				
Bearing Seats		6	6	
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	1 medium to wide width vertical crack @ each pier
Nose Plate		7	7	
Paint/Coating		4	4	10% corrosion @ nose plate
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		4	5	3M wide scour at South bank at West end of South pier
Debris (Y/N)	No			
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	Steep cut @ North pier Some slouthing & cut banks d/s @ North
HWM (m below Top of Curb)	6.0			No visible HWM
Drift (Y/N)	No			
Slope Protection		4	5	Vertical banks at both piers.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT 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	Tighten stirrups @ South span x3- check others					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	60.7/62.0	Est. Repl. Yr	2030	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	26-Jun-2013		Previous Inspection Date	23-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							