

Bridge Inspection										
Bridge File Number	72535 N-2 Bridge				Form Type	PSR				
Year Built/Year Supstr	1991/1991				Lot No.	2				
Bridge or Town Name	GRANUM				Inspector Name	Garry Roberts				
Located Over	LNI - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A				
Located On	2:08 R1 11.728				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	02-Oct-2011				
Legal Land Location	NW SEC 6 TWP 10 RGE 26 W4M				Data Entry By	Alyssa Boynton				
Longitude, Latitude	-113:31:26, 49:47:57				Data Entry Date	10-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	CMA26				Review Date	07-Oct-2011				
Clear Roadway/Skew	12.4 / -42 deg. (LHF)				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:	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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not req.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Only one @ SW-hazard marker. LN - 16								

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	East curb int conduit.				Gas					
Power	3 LINE 20 m E & S				Municipal					
Others					Problem (Y/N)	No				
Remarks	Fibre Optic @ SE and NE									

Approach Road											
			Last	Now	Explanation of Condition						
Horizontal Alignment			7	7	Intersection to South, both sides						
Vertical Alignment			6	6							
Roadway Width (m)	13.400		Not thriebeam								
Approach Bump										6	6
Guardrail (Y/N)	Yes										
Guardrail										8	7
Length (m)	26.000										
Current Standard (Y/N)	No										
Termination Type	TURNED DOWN										
Drainage			6	6	Minor damage to SW concrete slope drain.						
Approach Road General Rating			6	6							

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CBC, 2 Spans, Lengths(m): 23-23, 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			6	5	Random transverse cracks and longit cracks -sealed Some ravelling @ outside lane
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over.
Deck Rideability			7	7	
Deck Joints			3	3	1 misssing plow guard @ north abut and one at South abut. Varying thickness of plow guards - 3 to 5 mm - most bent
Temperature (deg. C)		12			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
83		N. abut			
80		S. abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Vertical hairline cracks in curbs every 1.5 m, some with leaching.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	7	
(Type : BRIDGE TUBE)					
Bridge Rail Posts			8	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(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	
Girders			7	7	Shrinkage along CIP diaphragm over pier- not cracked. Continuous.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 6)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBC, 2 Spans, Lengths(m): 23-23, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	
Temperature (deg. C)	12			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	MEDIUM WIDTH CRACK @ COLD JOINT @ SOUTH SPAN.
Stains (Percent Area)	0			
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		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Galvanized
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	7	
Debris (Y/N)	No			
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Integration canal.
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)	2.0			No visible HWM.
Drift (Y/N)	No			
Slope Protection		8	8	Low velocities.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Replace 2 plow guards.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	73.5/72.1	Est. Repl. Yr	2061	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	02-Jul-2013		Previous Inspection Date	23-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							