

Bridge Inspection							
Bridge File Number	72535 S-1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1958/1958			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 L1 11.775			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	-113:31:28, 49:47:58			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	13.4 / -45 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)	6						
Allowable Load (t):	Single	CS1 47 GIRDER	Semi	CS2 62 GIRDER	Train	CS3 89 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	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	LN-15						

Utilities (Located at)			
Utility Attachments			
Telephone	Conduit east lower outer curb		Gas
Power	20 m SOUTH - 3 WIRE		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	LR intersection 50m south.
Vertical Alignment		7	7	Hills both sides.
Roadway Width (m)	13.000			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Missing 8 splice bolts at NW
Guardrail		4	4	
Length (m)	30.000			
Current Standard (Y/N)	No			Not thriebeam
Termination Type	Turned Down			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PJ, 2 Spans, Lengths(m): 18.3-18.3, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Fibre rein silica fume concrete.
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Missing 1 plow guard in shoulder lane North abut. And 1 at pier joint.
Temperature (deg. C)		12			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
75		South			
75		Pier			
75		North			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	HAIRLINE VERT CRACKS EVERY 2.0 m O.C.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	7	
(Type : <b>VERTICAL BAR</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			6	6	Some small cracks at shoe plates of isolated girders - minor.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>14</b> )					
Diaphragms/Cross Frame			7	7	East diaphragm anchor partially exposed over pier.

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PJ, 2 Spans, Lengths(m): 18.3-18.3, A-Ident Number: )				
Bearings		5	5	Galvacon coated.
Temperature (deg. C)	12			Exp. at pier. Corrosion starting at exterior bearings.
(Expansion Type : <b>PINNED BEARING</b> )				
(Fixed Type : <b>STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Some hairline transv & longit cracks.
Stains (Percent Area)	1			- minor.
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		5	5	Scaling and 1m long horiz. crack under G6 at A1.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				2 Vertical cracks up to 6mm wide Vert crack extending through footing Abrasion on footing.
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		6	6	
Paint/Coating		4	4	Corrosion at lower plate.
(Colour Description : )				
(Colour Code : )				
Pier Stability		6	6	
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		9	8	
Bank Stability		8	8	
HWM (m below Top of Curb)	2.3			No visible HWM.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

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	Install 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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>69.9/69.9</b>	Est. Repl. Yr	2031	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							