

Bridge Inspection											
Bridge File Number	77548 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1981/1981					Lot No.	3				
Bridge or Town Name	INDUS					Inspector Name	Jason Rusu				
Located Over	CPR					Inspector Class	BR CLS A				
Located On	22X:04 C1 20.393					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	09-Feb-2013				
Legal Land Location	SW SEC 36 TWP 22 RGE 28 W4M					Data Entry By	Lauren Korte				
Longitude, Latitude	-113:45:37, 50:54:30					Data Entry Date	10-Mar-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts				
Contract Main. Area	CMA30					Review Date	04-Mar-2013				
Clear Roadway/Skew	12.4 / 51 deg. (RHF)					Dept. Reviewer Name	Tim Davies				
AADT/Year	5,060 / 2011 (A)					Dept. Review Date	13-Mar-2013				
Road Classification	RAU-213.4-120					Follow-Up By					
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS230										----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)					No							
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required over CPR.											
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	Not required.											

Hazard Marker At Bridge (Y/N)	No										
Remarks											
Other Sign Types	Curve sign.										

Utilities (Located at)											
Utility Attachments											
Telephone	At South R/W, also fibre optics.					Gas	Crosses 150 m South.				
Power	CPR underground at tracks.					Municipal					
Others						Problem (Y/N)	No				
Remarks											

Approach Road											
					Last	Now	Explanation of Condition				
Horizontal Alignment					6	6	On crest and "S" curve.				
Vertical Alignment					5	5					
Roadway Width (m)					13.400		New transition paving both ends.				
Approach Bump					9	9					
Guardrail (Y/N)					Yes		New thriebeam. Missing 1 splice bolt at SW but is within 1 m of adjacent splice.				
Guardrail					9	3	Accident damage at SW.				
Length (m)					99.000		3 broken posts and 2 damaged G.R sections.				
Current Standard (Y/N)					Yes						
Termination Type					TURNED DOWN						
Drainage					7	7					
Approach Road General Rating					5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RM, 3 Spans, Lengths(m): 23-24-23, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	7	Epoxy is covered in chip coat - warn areas have been repaired.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 100)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			9	9	New strip seal joints in 2012.
Temperature (deg. C)		0			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
90		East			
70		West			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Cracking exterior curb faces @ A/B's. Minor spall at SE exterior from A2 joint installation. Several areas repaired.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	4 A/B nuts just flush.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		5	5		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
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			5	5	Minor Hairline Longitudinal cracks some corrosion stains @ exteriors @ piers Spall crack at Sp.2 - G1 outside fascia over P1. Continuous girders.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 11)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 3 Spans, Lengths(m): 23-24-23, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	At abuts and piers.
Temperature (deg. C)	0			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
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/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	Abuts. are graffiti covered.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Hairline cracks.- worst at North end East pier.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 8:8)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	Railroad.
Traffic Safety Features		X	X	
Type	none			
Slope Protection		8	8	Several repaired areas.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair guardrail at SW approach road.					
GALVANIZE/PAINT 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	2013	Repair SE curb spall, install 1 rail splice bolt - both under warranty.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	61.1/61.1	Est. Repl. Yr	2035	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	09-Nov-2014		Previous Inspection Date	20-Nov-2012			
Inspection Cycle (Default) (months)	21						
Comment							