

Bridge Inspection							
Bridge File Number	00116 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1963/1963			Lot No.	1		
Bridge or Town Name	INNISFAIL			Inspector Name	Dave Lam		
Located Over	THREEHILLS CREEK, 3.50.2, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	590:02 C1 23.915			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	14-Jul-2011		
Legal Land Location	SE SEC 25 TWP 35 RGE 26 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:35:14, 52:01:35			Data Entry Date	13-Aug-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA19			Review Date	27-Jul-2011		
Clear Roadway/Skew	8.3 /			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	760 / 2010 (A)			Dept. Review Date	23-Aug-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	6						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 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	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	Not required.							
Other Sign Types								

Utilities (Located at)			
Utility Attachments			
Telephone	South of bridge.		Gas
Power	3 wire 15m N.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	
Vertical Alignment		8	8	
Roadway Width (m)	8.500			E approach EBL has valve exposed, missing steel cap (photo).
Approach Bump		7	7	Not thriebeam transition.
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	42.000			
Current Standard (Y/N)	No			
Termination Type	TURNDOWN ENDS			
Drainage		7	7	
Approach Road General Rating		7	8	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface				4	7
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top				4	N
Deck Rideability				5	7
Deck Joints				N	N
Bump (Y/N)		No		Paved over but ACP cracked over all jnt locations (photos).	
Deck Drainage				7	7
Drains Clogged (Y/N)		No			
Curbs/Median				6	4
(Curb Type : Standard)					
Scaling (Percent Area)		0		Cracked under some posts on exterior (photo). Scaling/delam exposing rebar at N side (photo).	
Bridge Rail				7	7
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts				7	7
(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					
Now	0	0	0	0	
Girders				4	4
Last Complete Inspection Date		14-Jul-2011		S1G1,3,7,10; S2G1-4,8,10; S3G1-2,6,10 long. crack in one leg, most extend into AZ No spalls. Can't measure bearing length but 73mm to edge of dowel & some dowels missing cap.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No		Curb girder & 1st interior not bearing fully on N end of E pier - photo.	
Horizontal (Y/N)		Yes			
Superstructure General Rating				4	4

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1500)							
(Total Number of Caps/Corbels : 1:1)				(Caps have been cored. 19Mar2005). (Repaired fall of 1996. 19Mar2005).			
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)			3 (count)	
Last							
Now	0	0	0			0	
Bearing Seats/Caps/Corbels						5	5
(Type : TREATED TIMBER)							
(Depth(mm) : 305)							
(Width(mm) : 305)							
Backwalls/Breastwalls			7			7	E backwall has front sheathing installed, full height (photo).
Greatest Height (m)		1.00					
Wingwalls			X	X			
(Total Number of Bearing Piles : 7:7)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	7	0	0	0			
Piles				7	7		
Paint/Coating				X	X		
Abutment Stability				6	6		
Scour/Erosion				5	5		
Piers/Bents							
(Type : PIER-COLUMN)							
(Total Number of Caps/Corbels : 3:3)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	0	0	0	1			
Bearing Seats/Caps/Corbels				4	3		
(Type : TREATED TIMBER)							
(Depth(mm) : 305)							
(Width(mm) : 356)							
(Total Number of Bearing Piles : 7:7)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	0	0	0	0			
Pier Shaft/Piles				4	4		
Greatest Height (m)		3.00					
Bracing/Struts/Sheathing			6	6	Bracing 70mm x 300mm x 4.9m.		
Nose Plate			X	X			
Paint/Coating			X	X			
(Colour Description :)							
(Colour Code :)							
Pier Stability			4	4	Girders have 70-75mm of bearing at some locations.		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		N	N	
Debris (Y/N)	No			
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)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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	2011	Replace at next major rehab.								
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2011	Replace steel cap over valve at E approach in EBL.								
OTHER ACTION	2011	Core pier piles.								
OTHER ACTION	2011	Seal trans. cracks in ACP over jnts.								
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	58.9/56.8	Est. Repl. Yr	2015	Maint. Req'd. (Y/N)	Yes			
Special Comments for Next Inspection	(Core bridge & assessment may follow with replacement after that. Units connector pockets are not sharing load. 19Mar2005). Monitor curb & girder leg cracking.		Department Comments							
Maintenance Reviewed By			Date			Estimated Total	0			
Proposed Long-Term Strategy	2007.10.10 Part of regional consultant for Spot Rehab program for 2012.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Randy Bredo		Previous Assistant's Name							
Next Inspection Date	14-Oct-2014		Previous Inspection Date	19-Mar-2005						
Inspection Cycle (Default) (months)	39									
Comment										

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	2011	Replace at next major rehab.	Programmed for replacement	2014		
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2011	Replace steel cap over valve at E approach in EBL.	Programmed for replacement	2014		
OTHER ACTION	2011	Core pier piles.	Programmed for replacement	2014		
OTHER ACTION	2011	Seal trans. cracks in ACP over jnts.	Programmed for replacement	2014		
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	58.9/56.8	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
---	------------------	--	------------------	---------------	------	-------------------	-----

Special Comments for Next Inspection	(Core bridge & assessment may follow with replacement after that. Units connector pockets are not sharing load. 19Mar2005). Monitor curb & girder leg cracking.	Department Comments	Tentatively scheduled in PMA to be replaced in 2014. AS
--------------------------------------	---	---------------------	---

Maintenance Reviewed By	Andrew Smikles	Date	22-Jun-2012	Estimated Total	0
Proposed Long-Term Strategy	2007.10.10 Part of regional consultant for Spot Rehab program for 2012.				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Randy Bredo	Previous Assistant's Name			
Next Inspection Date	14-Oct-2014	Previous Inspection Date	19-Mar-2005		
Inspection Cycle (Default) (months)	39				

Comment	
---------	--