

Bridge Inspection									
Bridge File Number	72364 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1977/1977				Lot No.	1			
Bridge or Town Name	FERINTOSH				Inspector Name	Owen Salava			
Located Over	MEETING CREEK, 5.31, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	21:22 C1 11.196				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Sep-2012			
Legal Land Location	NW SEC 26 TWP 43 RGE 21 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:57:18, 52:44:19				Data Entry Date	03-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA16				Review Date	27-Sep-2012			
Clear Roadway/Skew	11.3 / -15 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	1,560 / 2011 (A)				Dept. Review Date	22-Oct-2012			
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:	HS25						----> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Posting not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Hazard markers not req'd								
Other Sign Types	Meeting Creek								

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	1 wire 20m from c/l East r/w.				Municipal				
Others	Fibre optic E r/w.				Problem (Y/N)	Yes			
Remarks	Telus strung under South abutment.								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	CNR crossing 200 m South.					
Vertical Alignment		7	7						
Roadway Width (m)	13.500			Trans. cracks in ACP at both abuts, follows skew.					
Approach Bump		6	6						
Guardrail (Y/N)		Yes		Insufficient posts & length. All posts are blocked out. 41.8m at SE & NW corners.					
Guardrail		7	7						
Length (m)	30.400								
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage		6	6						
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 1 Spans, Lengths(m): 10.7, 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			7	7	
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		No		Buffer angles. Paved over.	
Deck Drainage			6	6	
Drains Clogged (Y/N)		No		No drains.	
Curbs/Median			4	4	
(Curb Type : Standard)					
Scaling (Percent Area)		0		Spall at exterior at NE (photo). (200 x 200 x 25) Top delam @ SE (photo). Spall at base of 2nd post from N, E side (photo).	
Bridge Rail			7	7	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(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	2	
Girders			4	3	
Last Complete Inspection Date		11-Feb-2009			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 12)			(Spall on underside G6 because it wasn't shimmed properly & connectors failed. Corrosion stain @ 50mm dia spall @ 11th girder. 11Feb2009). Equipment hit (spall) at G1 bottom edge. S end of G12 spalled (photo). N end of G1 spalled with vertical crack. Lift/connector pockets not visible, paved over.		
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	3	

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 : 2:2)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				7	7
(Type : STEEL)					
(Depth(mm) : 300)					
(Width(mm) : 300)					
Backwalls/Breastwalls				7	7
Greatest Height (m)		2.00			
Wingwalls				5	5
(Total Number of Bearing Piles : 14:14)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	22	0	0	0	
Now	22	0	0	0	
Piles				5	5
Paint/Coating				7	7
Galvanized abut. caps.					
Abutment Stability				6	6
Scour/Erosion				N	N
Water.					
Piers/Bents					
(Type :)					
(Total Number of Caps/Corbels :)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Bearing Seats/Caps/Corbels				X	X
(Type :)					
(Depth(mm) :)					
(Width(mm) :)					
(Total Number of Bearing Piles :)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Pier Shaft/Piles				X	X
Greatest Height (m)					
Bracing/Struts/Sheathing				X	X
Nose Plate				X	X
Paint/Coating				X	X
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			Old piles under bridge.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				(Drift collected at top of SW wingwall. 08Nov2010).
Drift (Y/N)	Yes			Small pile of drift under S abut - minor.
Slope Protection		N	N	High water.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	(Ice to 1.4 of girders. 11Feb2009).
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Patch girder end spalls, 0.1m3 OH-V.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	55.0/52.6	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	(O/L bridge at this time reinforced concrete o/l because connector not working, piles are 1977 & 14/abut with double steel cap, girders deteriorating due to jnt leakage & will only get worse. Std concrete o/l should be good enough but would make it 150 thick with 2 layers rebar. 14Jul2009) - Can't confirm if concrete o/l was installed, but don't think so; ACP installed 08Nov2010. Monitor E curb spall.			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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	19-Jun-2014		Previous Inspection Date	08-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							