

Bridge Inspection							
Bridge File Number	08513 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1956/1956			Lot No.	2		
Bridge or Town Name	PEMBRIDGE			Inspector Name	Melanie Johnson		
Located Over	COYOTE CREEK, 8.11.84.40, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	764:02 C1 9.182			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-Aug-2011		
Legal Land Location	NW SEC 3 TWP 57 RGE 5 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-114:40:17, 53:54:09			Data Entry Date	12-Sep-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA12			Review Date	07-Sep-2011		
Clear Roadway/Skew	7.3 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	390 / 2010 (A)			Dept. Review Date	15-Sep-2011		
Road Classification	RAU-208.0-110			Follow-Up By			
Detour Length (km)	29						
Allowable Load (t):	Single	CS1 29 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 74 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)	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	Not required.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	"Narrow Bridge" NB only.						

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	Conduit on West side.		Gas
Power	2 lines East r/w.		Municipal
Others			Problem (Y/N) Yes
Remarks	Conduit on West rail broken exposing CBL. Fallen down S/B.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approach to SE.
Vertical Alignment		7	7	No passing to North. Limited sight distance due to crest curve.
Roadway Width (m)	7.700			Minor bump @ South.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			SW turn down end cap missing bolt - photo. Insufficient post spacing/length.
Guardrail		4	4	
Length (m)	11.400			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		6	6	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 1 Spans, Lengths(m): 8.5, 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					
Wearing Surface			5	5	Thin ACP patch over most of deck.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Paved over.
Bump (Y/N)		Yes			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Rebar exposed at NW/SE. Plow scrapes along curb and chipped at SE & NW. Poor curb patch @ NW post.
(Curb Type : Standard)					
Scaling (Percent Area)		25			
Bridge Rail			4	5	Posts on flat. Post WP2 missing nut on curb/post connection & missing bolt @ rail/post connection - photo. Rail only.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			3	3	
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			4	4	G2, G7, G9 wide cracks/spalls 1 leg in AZ, worst G2. G10 (curb) wide cracks/spalls. Water 0.8m deep under bridge-viewed from four corners.
Last Complete Inspection Date		09-May-2008			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
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 : 2:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels			7	7		
(Type : TREATED TIMBER)						
(Depth(mm) : 656)						
(Width(mm) : 305)						
Backwalls/Breastwalls			4	4	Backwall clamps South piles are 150mm below cap @ South. Scour of S/B under bridge, 300mm. Rot in some planks.	
Greatest Height (m)		2.80				
Wingwalls			5	5	Wingwalls 300mm lower than shoulder. Piles are notched @ top to accommodate previous strut. Rot in some planks.	
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles			5	5	Most piles notched @ top to accommodate previous struts, piles are now clamped/scabbed.	
Paint/Coating			X	X		
Abutment Stability			5	5		
Scour/Erosion			4	4	Fill eroded below bottom of sheathing @ North abutment, under 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)	No			
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		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection (Type : NONE; NONE)		4	4	Scour hole under bridge.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Replace missing connection bolt @ WP2.					
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	2011	Advise Telus to repair cable.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	59.1/60.0	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor curb and girder cracking, monitor scour.		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	27-Nov-2014		Previous Inspection Date	09-May-2008			
Inspection Cycle (Default) (months)	39						
Comment							