

Bridge Inspection										
Bridge File Number	06780 E-1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1963/1963				Lot No.	1				
Bridge or Town Name	COALDALE				Inspector Name	Tom Carey				
Located Over	SMR - CHIN COULEE, WATERCRS-IC				Inspector Class	BR CLS A				
Located On	3:10 R1 23.521				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	12-Nov-2011				
Legal Land Location	SW SEC 25 TWP 9 RGE 19 W4M				Data Entry By	Alyssa Boynton				
Longitude, Latitude	-112:27:56, 49:45:24				Data Entry Date	01-Dec-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA24				Review Date	21-Nov-2011				
Clear Roadway/Skew	13.7 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	7,690 / 2010 (A)				Dept. Review Date	06-Dec-2011				
Road Classification	RAU-213-130				Follow-Up By					
Detour Length (km)	10									
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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	Conduit along N. girder.				Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Straight. Grade Rises to the east. 4 Lengths @ SE & 4 Lengths @ NE with flare ends				
Vertical Alignment			7	7					
Roadway Width (m)	13.100								
Approach Bump			9	9					
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	49.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 6 Spans, Lengths(m): 6.1-6.1-6.1-6.1-6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			8	8	
(Material Type : ACP)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)		No			
Deck Top			X	X	
Deck Rideability			8	8	
Deck Joints			N	N	
Bump (Y/N)		No		Crack over piers and abuts - sealed Asphalt covered.	
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			5	4	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	32	0	0	2	
Now	0	0	0	2	
Girders			3	3	
Last Complete Inspection Date		12-Nov-2011		2 int w/ wide crk or spall in AZ on both legs @ span #6. Girder 10 + 12 over Pier 5 - see Photo. 1 shear crk @ gird #6 @ span 1	
Cracking (Y/N)		Yes		3 pockets at North deteriorated 29 with crack in A2 in one web Punch out with exposed rebar at S1 G4 - no change.	
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 96)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure											
Bridge Component		Last	Now	Explanation of Condition							
Abutments											
(Extended Backwall Piles (Y/N) : N)		Some staining									
(Extended Backwall Piles Spacing(mm) :)											
(Total Number of Caps/Corbels : 1:1)											
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							6	6			
(Type : CONCRETE)											
(Depth(mm) : 600)											
(Width(mm) : 400)											
Backwalls/Breastwalls		X	X								
Greatest Height (m)		0.70									
Wingwalls		X	X								
(Total Number of Bearing Piles : 0:0)		Buried									
Piles Detail Ratings											
	N (count)						1 (count)	2 (count)	3 (count)		
Last	10						0	0	0		
Now	1						0	0	0		
Piles							N	N			
Paint/Coating							X	X			
Abutment Stability							8	8			
Scour/Erosion							7	7			
Piers/Bents											
(Type : PIER-COLUMN)		Outer 2 piles per side are steel 2nd and 3rd piercap SE corner, cracks with spalls visible rusted rebar Spall/ crack at P4 cap at South end Rust lower piles for 1.8m									
(Total Number of Caps/Corbels : 1:1:1:1:1)											
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							4	4			
(Type : CONCRETE)											
(Depth(mm) : 600)											
(Width(mm) : 400)											
(Total Number of Bearing Piles : 10:10:10:10:10)		Pier 2, 3, 4, have loss of section in the steel piles Scaling and pitting corrosion.									
Piles Detail Ratings											
	N (count)						1 (count)	2 (count)	3 (count)		
Last	0						0	0	0		
Now	0						0	0	0		
Pier Shaft/Piles							4	4			
Greatest Height (m)							4.60				
Bracing/Struts/Sheathing							X	X			
Nose Plate							X	X			
Paint/Coating							4	4			
(Colour Description : YELLOW)		Paint peeling on the outer piles									
(Colour Code : 13538)											

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	6	
Scour		N	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)	3.5			
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2012	Grout lift pockets at North					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	53.1/53.1	Est. Repl. Yr	2036	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	12-Aug-2013		Previous Inspection Date	24-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							