

Bridge Inspection							
Bridge File Number	72701 -1 Bridge			Form Type	TT		
Year Built/Year Supstr	1962/1962			Lot No.	2		
Bridge or Town Name	COALSPUR			Inspector Name	Todd Warshawski		
Located Over	CNR			Inspector Class	BR CLS B		
Located On	40:26 C1 9.656			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	31-Oct-2012		
Legal Land Location	NW SEC 13 TWP 48 RGE 22 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-117:05:30, 53:08:37			Data Entry Date	30-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA13			Review Date	28-Nov-2012		
Clear Roadway/Skew	7.3 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	160 / 2011 (A)			Dept. Review Date	06-Dec-2012		
Road Classification	RCU-209G-90			Follow-Up By			
Detour Length (km)	82						
Allowable Load (t):	Single	CS1 30 STRINGER	Semi	CS2 53 STRINGER	Train	CS3 75 STRINGER	----> On Critical Spans ---->Critical Member
Design Loading:							----> 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.										
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												
Hazard Marker At Bridge (Y/N)		Yes										
Remarks		Brush blocking SE corner.										
Other Sign Types		Checker board with arrow at 90 degree corner to the East, 35 kph.										

Utilities (Located at)			
Utility Attachments			
Telephone	North side of bridge, PVC.		Gas
Power	5 wires 50m North of bridge. 1 wire crossing 50m West.		Municipal
Others	Telecom tower @ SW.		Problem (Y/N) Yes
Remarks		Telus conduit separated @ NW & NE corner.	

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	90 degree corner in road 40m from east end; signage in place. Blind sightline NB @ East approach; bridge 1.5m higher than road.
Vertical Alignment		4	4	
Roadway Width (m)	8.700			Pot holes in W. approach road.--03-Oct-2012
Approach Bump		4	6	
Guardrail (Y/N)	Yes			No delineator posts @ ends, insufficient length. Damaged sections @ NE & SE.-03-Oct-2012
Guardrail		4	N	
Length (m)	11.400			Snow covered. Not thrie beam.
Current Standard (Y/N)		No		
Termination Type		Turned Down		
Drainage		4	N	Windrows under approach rail impedes drainage from approach road. -03-Oct-2012
Approach Road General Rating		4	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : TT, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	90	0	0	0	
Now	100.0				100% snow covered.
Wearing Surface/Deck Top			N	N	(Deck worn down and rotting. Ponding water where rotten 08-Nov-2010) 100% snow covered.
(Material Type : UNTREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 300)					
Deck Rideability			5	5	
Wheel Guards			4	N	(One block at SW is split. 450 x 300 x 150mm height TT blocking. Some blocks rotating. Plow scrapes. 1 - TT WG damaged on N. side.)-03-Oct-2012
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 100)					
(Width(mm) : 300)					
Bridge Rail			4	4	Double layer. 118 splice bolts missing. Incorrectly spliced double layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			5	4	Posts orientated incorrectly.
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
(No. of Stringers : 13;13;13)					
Stringer Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Stringers			5	5	S1 - Stringers 2, 5 & 9 bolted steel channel. S3 - Stringers 3, 5 & 9 bolted steel channel. S2 - Centre span viewed from headslopes, no evident problems. S3, Stringer 13 -wide checks at pier.- photo Several stringers are twisted/leaning but are blocked.
(Type : TREATED TIMBER)					
(Width(mm) : 200)					
(Depth(mm) : 500)					
(Spacing(mm) : 850)					
Sub Deck/Deck Underside			5	5	Discoloration, creosote has leached out of boards. Some ends are vertically split.
(Material Type : TREATED TIMBER)					
(Plank Thickness(mm) : 100)					
(Plank Width(mm) : 300)					
Defects (Percent Area)		2			
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					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1700)					

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
(Total Number of Caps/Corbels : 3:3)				2 - 300 x 300 TT on center subcap. Has been cored, plugged holes. AB2-East cap with "X" rating. Wide checks.					
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now									
Bearing Seats/Caps/Corbels			6				5		
(Type : TREATED TIMBER)									
(Depth(mm) : 300)									
(Width(mm) : 300)									
Backwalls/Breastwalls			6				6		
Greatest Height (m)		1.50							
Wingwalls			6	6					
(Total Number of Bearing Piles : 5:5)				A2-P5, minor split less than 20mm.-photo					
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now									
Piles			6				4		
Paint/Coating			X				X		
Abutment Stability			7				7		
Scour/Erosion			7				7		
Piers/Bents									
(Type : PIER-COLUMN)				2 - 300 x 300 TT caps on 1 - 300 x 300 TT subcap. Subcap supported on 1 pile only.					
(Total Number of Caps/Corbels : 3:3)									
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now									
Bearing Seats/Caps/Corbels			5				5		
(Type : TREATED TIMBER)									
(Depth(mm) : 300)									
(Width(mm) : 300)									
(Total Number of Bearing Piles : 5:5)				North & South exterior piles on 5:1 batter. Piles have 300x300 square cross section. P1-Pile 1, P2-Piles 2 & 4 have full length checks.					
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last									
Now									
Pier Shaft/Piles			6				6		
Greatest Height (m)		7.30							
Bracing/Struts/Sheathing			7				7		
Nose Plate			X				X		
Paint/Coating			X				X		
(Colour Description :)									
(Colour Code :)									
Pier Stability			X	7					
Scour			7	7					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type	None			
Slope Protection		5	5	Erosion starting on headslope from water leakage through strip deck @ A2.-Steep 1.5:1 slope
(Type : NATURAL; NATURAL)				
Bank Stability		5	5	
Drainage		7	7	
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace 118 missing splice bolts in approach rail & 2 damaged sections @ NE & SE.					
PATCH DECK							
REPLACE STRIP DECK	2014	Consider replacement of entire strip deck surface and inspect condition of subdeck material before replacement.					
REPLACE SUB DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2013	Removal of windrows under approach rails to improve approach road drainage.					
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Recommend removal/clear vegetation @ all 4 corners to improve visibility.					
OTHER ACTION	2013	Advise/Contact Telus regarding disconnected conduit.					
OTHER ACTION	2013	Recommend grader to level out/fill in pot holes in W. approach road.					
OTHER ACTION	2013	Replace damaged TT WG plank & blocking on N. side.					
OTHER ACTION	2013	Treat and band pile S2-P5.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/50.0	Sufficiency Rating (Last/Now) (%)	51.5/49.7	Est. Repl. Yr	2030	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	Brent Herrick		Previous Assistant's Name	Junaid Iqbal			

Next Inspection Date	31-Jul-2014	Previous Inspection Date	03-Oct-2012
Inspection Cycle (Default) (months)	21		
Comment			