

Bridge Inspection									
Bridge File Number	73836 E-1 Bridge				Form Type	SG			
Year Built/Year Supstr	1954/1954				Lot No.	2			
Bridge or Town Name	VALLEYVIEW				Inspector Name	Brian Pientsch			
Located Over	LITTLE SMOKY RIVER, 8.10.58.7, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	43:08 R1 38.844				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	28-Nov-2012			
Legal Land Location	SE SEC 25 TWP 66 RGE 22 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-117:10:51, 54:44:25				Data Entry Date	06-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA03				Review Date	19-Dec-2012			
Clear Roadway/Skew	12.8 / 29 deg. (RHF)				Dept. Reviewer Name	David Morrison			
AADT/Year	5,650 / 2011 (A)				Dept. Review Date	18-Mar-2013			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> 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	Structure is now twinned, no WBL on 73836E.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types	Little Smoky River.								
Utilities (Located at)									
Utility Attachments									
Telephone	South side of road 19m South of c/l.				Gas				
Power	4 lines & 3 lines 100m North.				Municipal				
Others	Water guage station SE.				Problem (Y/N)	Yes			
Remarks	Telephone line under Span 3.								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Not thrie beam.				
Vertical Alignment			8	8					
Roadway Width (m)	13.000								
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	99.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			N	N	(Erosion gullies at NW and SE (see abutment scour) 22-May-2009)				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 26.8-33.5-26.8, A-Ident Number: A0219-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered
Last	10	0	0	0	
Now	30.0	0.0	0.0	0.0	
Wearing Surface			9	9	New deck 2010
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			7	7	
Deck Rideability			7	7	
Deck Joints			7	7	New joints 2010.
Temperature (deg. C)		-15			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
70		East abutment - A2			
83		West abutment - A1			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			N	N	(3 spalls on exterior of West curb compromising rail post anchorage. 22-May-2009) Snow Covered.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	(10% of anchor bolts have insufficient thread. Post 8 from the East has compromised anchorage from a curb spall. Similar @ P6 & P13 from West, South curb. 22-May-2009) Snow covered.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	N	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			N	N	Snow covered.
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			7	7	
Weld			7	7	
Diaphragms/Cross Frame			4	4	13 diaphragms have minor cold formed plate cracks from bending gussets. Confirmed repairs still.

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 26.8-33.5-26.8, A-Ident Number: A0219-01)					
Paint Condition		4	4	25% of bottom flanges have paint peeling and surface rusting.	
(Colour Description : GREEN)					
(Colour Code : 14090)					
Touchup Required (Y/N)	No				
Bearings		7	7	Repainted.	
Temperature (deg. C)	-15				
(Expansion Type : SLIDING PLATE;STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		5	4	S2 G1 & 2 D 3-4 rust staining in repair area. Wide cracking efflorescence SB G1-7 + 1 in from A2.-photo Concrete chamfer breaking off @ several flanges. Transverse cracking @ mid spans with efflorescence staining.	
Stains (Percent Area)	2				
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					
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
Backwalls/Breastwalls		5	5		
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		X	X		
Abutment Stability		5	5	(Erosion gullies at NW and SE corners down headslopes. 22-May-2009) Snow covered.	
Scour/Erosion		N	N		
Piers/Bents					
(Type : PIER-SOLID)				Viewed Span 2 from banks.	
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0:0)					
Pier Shaft/Piles		7	7		
Bracing/Struts/Sheathing		X	X		
Nose Plate		6	6	Top coat worn off 80%, primer worn off 20%. Silver.	
Paint/Coating		4	4		
(Colour Description :)					
(Colour Code :)					
Pier Stability		7	7		
Scour		7	7		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Drift caught on west piers.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	Class II riprap. Concrete bags.
(Type : RIP RAP; CONCRETE)				
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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2013	Patch spall at post 9 from East and posts 6 and 13 from West, all on South rail. Carried over 22-May-2009					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Repair 2 cover plate welds - carried over 22-May-2009.					
OTHER ACTION	2013	Grind out cold formed plate cracks with fine stone.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	56.5/56.1	Est. Repl. Yr	2050	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Refer to girder cover plate report for complete details of defects. Monitor crack @ S3 G1-7 11m from A2.		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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	28-Aug-2014		Previous Inspection Date	07-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							