

Bridge Inspection									
Bridge File Number	79351 W-1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1984/1984				Lot No.	1			
Bridge or Town Name	SYLVAN LAKE				Inspector Name	Owen Salava			
Located Over	TRIBUTARY TO SYLVAN CREEK, 3.83.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	11:12 L1 25.136				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	01-Feb-2012			
Legal Land Location	NE SEC 24 TWP 38 RGE 1 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:00:26, 52:16:59				Data Entry Date	02-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA19				Review Date	23-Feb-2012			
Clear Roadway/Skew	13.7 / 30 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	15,860 / 2010 (A)				Dept. Review Date	15-Mar-2012			
Road Classification	RAU-213.4-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Not required.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	North r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Westbound bridge.				
Vertical Alignment			9	9					
Roadway Width (m)	13.700								
Approach Bump			6	6	Bump marker installed @ E approach both sides. No visible bump.				
Guardrail (Y/N)	Yes				Bulb end on West rail. Minor scrapes to thrie beam.				
Guardrail			6	6					
Length (m)	21.000								
Current Standard (Y/N)	Yes								
Termination Type	Turn Down								
Drainage			5	6					
Approach Road General Rating			9	9					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 1 Spans, Lengths(m): 11, 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	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		Paved over.	
Deck Drainage				7	7
Drains Clogged (Y/N)				No deck drains.	
Curbs/Median				4	4
(Curb Type : Standard)					
Scaling (Percent Area)		0		Minor plow chips, no problem. Minor chips on exterior drip edge, no problems.	
Bridge Rail				4	4
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts				7	7
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating				7	7
(Type : GALVANIZED)					
Sidewalk				X	X
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last				2	
Now	0	0	0	2	
Girders				3	3
Last Complete Inspection Date		01-Feb-2012			
Cracking (Y/N)		Yes		Narrow diagonal crack in end of curb unit. 400mm on SE & 375mm on NW, no stains.	
Spalling (Percent Area)		1		Chips on sides of precast of 3 units & G10, both curbs.	
Lift or Connector Pocket Grouted (Y/N)		Yes		SE & NW curb unit end spalled, exposed strands, stirrup - photos.	
(Number Of Girders : 12)				NW corner exposed pre-stress strands at spall location.	
				Staining deck underside.	
				Connector pocket staining throughout.	
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) : Y)				Timber extension piles.		
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 1:1)				Heavy corrosion, scaling - photo.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		2.70				
Wingwalls				5	5	
(Total Number of Bearing Piles : 9:9)				Distortion at previous tie wire location, minor.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				5	5	
Paint/Coating				3	3	
Abutment Stability				7	7	
Scour/Erosion				7	7	
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 :)						
Pier Stability				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
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	2012	Install missing bolt at South center post connection. Add end termination for tube rails.					
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 spalled girder ends @ NW & SE.					
OTHER ACTION	2012	Consider clean and paint caps.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	52.8/52.8	Est. Repl. Yr	2036	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor spalls & diagonal cracks at NW/SE curbs.		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	Owen Salava		Previous Assistant's Name	Chris Black			
Next Inspection Date	01-Nov-2013		Previous Inspection Date	30-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							