

Bridge Inspection										
Bridge File Number	77212 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1970/1970				Lot No.	1				
Bridge or Town Name	TELFORDVILLE				Inspector Name	Shane Hall				
Located Over	STRAWBERRY CREEK, 6.112, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	622:02 C1 12.577				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	30-Mar-2012				
Legal Land Location	NE SEC 36 TWP 49 RGE 2 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-114:09:31, 53:16:24				Data Entry Date	10-Apr-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA11				Review Date	04-Apr-2012				
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	650 / 2011 (A)				Dept. Review Date	11-Apr-2012				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	5									
Allowable Load (t):	Single		Semi		Train					
Design Loading:	HS20					----> On Critical Spans ---->Critical Member ----> 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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Installed on approach posts.								
Other Sign Types	Hill.								

Utilities (Located at)										
Utility Attachments										
Telephone	South r/w.				Gas					
Power	2 lines East, West & South of bridge.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Steep hill and curve at both ends of bridge. Limited sight distance. Int to East. Private access @ both ends of bridge.				
Vertical Alignment			5	5					
Roadway Width (m)	9.200				No thrie beam. 1 split post in SE approach transition and approach guardrail not attached to one post.-photo				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			6	4					
Length (m)	50.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			4	4	NE deck drain eroding headslope.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 16.8-16.8-16.8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	10				
Now					
Wearing Surface			6	6	FRC O/L. 1 short hairline longitudinal crack in S2 WBL (0.5m) extending from West pier joint, 3 hairline longitudinal cracks in S1 WBL (2.0m) extending from west pier joint. Transverse crack at West abutment W/B lane.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Continuous buffer angle @ abutments.
Temperature (deg. C)		3			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : BUFFER ANGLES)					
Gap Size (mm)		Gap Location			
81			East pier		
82			West pier		
Deck Drainage			4	4	Deck drainage eroding NE/SW headslope. Staining around deck drains and between girders @ underside.
Drains Clogged (Y/N)		No			
Curbs/Median			N	4	Spall in N curb near West end.-photo Numerous small spalls in S curb face.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	DOuble layer W-beam.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Narrow crack with rust stains(not from strands) at midspan S3G4.-photo S3G10 is spalling, has delaminations due to low cover on reinforced steel.-photo Large delaminations at E & W ends of S3G11.-photo Delam @ W end of S2G11.
Last				1	
Now				4	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 16.8-16.8-16.8, A-Ident Number:)				
Girders		3	3	Rust spots S1 - 1,2,3,10,11. S2 - 2,3,8,10,11. S3 - 1,2,3,7,9,10,11. G10 cracking all 3 spans. G10/S1 patched. Staining around D.D. Delams/cracking and rust staining appear to be caused by low cover on rebar.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 33)				
Diaphragms/Cross Frame		X	X	
Bearings		7	6	Double layer of neoprene @ east abutment.
Temperature (deg. C)	3			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		N	N	
Stains (Percent Area)	0			
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				
Bearing Seats/Caps		5	4	Patched. Spall under S1G11.-photo
(Type : PRECAST CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		4	4	Erosion gullies in both headslopes. Toe of East headslope eroding.-photo
Piers/Bents				
(Type : PIER-COLUMN)				Delam cracks P1 & P2.-photo pier 1
Bearing Seats/Caps		4	4	
(Type : PRECAST CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		5	5	Bottom of pier caps peeling, minor superficial rusting on exterior piles. Blue.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	5	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Drift from East pier to East bank.-photo
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Bends at U/S and D/S.
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible. Drift from East bank to East pier.
Drift (Y/N)	Yes			
Slope Protection		4	4	Erosion gullies along both headslopes. Toe of East headslope eroding.
(Type : NATURAL; NATURAL)				
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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Patch curbs.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	At East headslope.					
OTHER ACTION	2012	Determine if water has gotten into voids of G11S3. Complete Level 2 inspection of girders with reccomendations from structural engineer.					
OTHER ACTION	2012	Repair spall at West abutment.					
OTHER ACTION	2012	Repair approach guardrail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	58.9/58.2	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor deck underside rust staining, girder rust spots and cracking. Monitor erosion at E headslope. Monitor delam crackcs @ P1 & P2.		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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	30-Jun-2015		Previous Inspection Date	03-Mar-2009			
Inspection Cycle (Default) (months)	39						
Comment							