

Bridge Inspection							
Bridge File Number	00543 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1953/1953			Lot No.	1		
Bridge or Town Name	WETASKIWIN			Inspector Name	Owen Salava		
Located Over	WEILLER CREEK, 5.47.2, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	613:02 C1 5.488			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	07-Feb-2013		
Legal Land Location	SE SEC 16 TWP 46 RGE 23 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:16:42, 52:57:35			Data Entry Date	06-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA17			Review Date	13-Feb-2013		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	1,560 / 2011 (A)			Dept. Review Date	28-Mar-2013		
Road Classification	RAU-213.4-120			Follow-Up By			
Detour Length (km)	8						
Allowable Load (t):	Single	CS1 29 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 74 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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks								
Hazard Marker At Bridge (Y/N)		Yes						
Remarks								
Other Sign Types								

Utilities (Located at)				
Utility Attachments				
Telephone	Plowed South r/w.		Gas	Crossing 30m East.
Power	3 wire O/H 10m North of c/l. 2 wire O/H 60m East.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	500m West of Hwy 822 jct on S.R. 613; driveway 50m to SE. Bottom of sag curve, limited sight distance.
Vertical Alignment		5	5	
Roadway Width (m)	12.000			(Approach ACP settled up to 70mm outside shoulder paint line, similar all corners - photo. 01Mar2010).
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Short; requires posts all corners.
Guardrail		6	6	
Length (m)	10.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		6	6	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 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	10				
Now	10.0	0.0	0.0	1.0	
Wearing Surface			6	3	S1, WBL spall in outside wheelpath exposing rebar.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			4	N	Paved over. Transverse cracks over piers & abuts.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			N	3	Spall @ NE & SE corners, exposed rebar - photo. Hole in S curb top, cracked/spalled - photo. Curb lift pockets not grouted.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	4	Double layer. Missing 10 lap connection bolts; lack bolt @ 3 post to rail connection over piers; weak laps away from posts. Anchor assembly exposed at NE corner and spall below post at SW corner. Post A/B with insufficient thread. 2 post A/B missing nut/washer. 1 post A/B sheared in NP11 - photo. SP12 missing 2 A/B - photo. Rusting/pitting on 100% of posts; their coating rate 3.
(Type : GALVANIZED STEEL W-BEAM)					
Bridge Rail Posts			3	3	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			3	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			5	5	Minor longit. cracks in several locations. Multiple medium transverse cracks 2nd int girder from NW span narrows transverse. Large spall SP2 G10 - photo.
Last Complete Inspection Date		07-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 33)					
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) : N)					
(Extended Backwall Piles Spacing(mm) :)					
(Total Number of Caps/Corbels : 5:5)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				9	7
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 350)					
Backwalls/Breastwalls				5	5
Greatest Height (m)		1.20			
Wingwalls				N	N
Buried. (SE wingwall pile leaning, appears broken but well buried, no problem - photo. 01Mar2010).					
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Piles				6	6
Paint/Coating				X	X
Abutment Stability				7	7
Scour/Erosion				5	5
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 5:5)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	1	
Bearing Seats/Caps/Corbels				6	3
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 350)					
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	1	0	
Pier Shaft/Piles				6	2
Greatest Height (m)		4.20			
Bracing/Struts/Sheathing				4	3
No struts pile 1/8 line; 2 broken pile braces at S end, P1.					
Nose Plate				X	X
Paint/Coating				X	X
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	5	
Scour		N	5	
Debris (Y/N)	Yes			Large drift at P1.
Substructure General Rating		6	2	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		5	5	
Bank Stability		5	5	Cut bank @ SW appear stable at this time. Bank erosion U/S and D/S. (Gully found NW headslope yet stable till bridge is replaced. 29/Jan/2007)
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Recondition posts, reinstall w/sufficient thread, replace 3 missing A/B nut/washers & repair sheared A/B. Recast exposed & spalled anchor assemblies. Replace/tighten 3 nuts; install 10 splice bolts.					
SEAL CURBS	2013	Patch spalled curb and hole, 0.1m3 NH. Grout open lift pockets on curbs.					
PATCH DECK	2013	Patch spall S1, 0.1m3 NH.					
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	2013	Remove drift from P1.					
INSTALL STRUTS	2013	Install 6 pile struts at outside piles.					
OTHER ACTION	2013	Install new pile at P1; steel stub pile may be an option, 4w2 bracing planks replaced and new nose plates (both piers).					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/38.9	Sufficiency Rating (Last/Now) (%)	55.6/48.1	Est. Repl. Yr	2020	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	LRA emailed to Donald Saunders 12Feb2013.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2008.01.29 Repair bridge 2007/2008. Chip seal in 2008. Bridge should be good until 2020. RS						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	07-May-2016		Previous Inspection Date	01-Mar-2010			
Inspection Cycle (Default) (months)	39						
Comment							