

Bridge Inspection										
Bridge File Number	77303 W-1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1980/1980					Lot No.	2			
Bridge or Town Name	ONOWAY					Inspector Name	Kris Bosters			
Located Over	MUNICIPAL ROAD;CNR					Inspector Class	BR CLS A			
Located On	43:22 L1 9.086					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	03-Oct-2011			
Legal Land Location	SW SEC 34 TWP 54 RGE 2 W5M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:13:20, 53:42:10					Data Entry Date	25-Oct-2011			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA12					Review Date	22-Oct-2011			
Clear Roadway/Skew	13.4 / -5 deg. (LHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	9,670 / 2010 (A)					Dept. Review Date	26-Oct-2011			
Road Classification	RAD-412.4-120					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:	MS230								----> Primary Span	

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: MUNICIPAL ROAD 7.0m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	7.0	In Advance (Y/N)	No
Remarks		EB on SB bridge.										
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)		In Advance (Y/N)		At Bridge (Y/N)					
Remarks		Not required.										
Hazard Marker At Bridge (Y/N)			No									
Remarks		Not required.										
Other Sign Types			Information.									

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w.					Gas	100m north crossing road.			
Power	6 OH lines crossing road ~100m South of bridge.					Municipal				
Others						Problem (Y/N)	No			
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Access road South of bridge.
Vertical Alignment		7	7	
Roadway Width (m)	12.400			ACP and chipseal is delaminated/peeling at abutments.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Measured NE (shortest), no guardrail @ NW corner. Insufficient posts/spacing. Bulb end @ North. Missing BR to GR connection bolts 2 @ SW 1 @ NE.-photo
Guardrail		N	4	
Length (m)	40.600			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		6	6	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RM, 4 Spans, Lengths(m): 14-18-18-14, A-Ident Number: )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
<b>Wearing Surface/Deck Top Detail Ratings</b>						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	50					
<b>Now</b>						
Wearing Surface			5	5	Chipseal on 50mm high density cover. Seal coat peeling off the deck, 2%. 500mm wide strip worn off along W curb.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			6	6		
Deck Joints			5	5	(2006 Level 2 deck inspection indicated 50mm tear in South abutment joint.10-Mar-2008)	
Temperature (deg. C)		4				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
78		North abutment - A2 - exp				
90		South abutment - A1 - exp				
Deck Drainage			6	6	On a crest curve. No deck drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			N	5	Plow scrapes, rebar spalls on rebar with insufficient cover on curb face. Poor patch on west curb middle span 2. Light gravel accumulation along the tops of the curbs.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		3				
Bridge Rail			7	7	3 bolts with insufficient threads along West rail.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			5	5	Galvanizing scraped at east side. Galvanizing peeling along tops of rail.	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	5		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder Detail Ratings</b>						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Girders			6	5	G7S1 and G6S4, & G12S4 have hairline longitudinal cracks along bottom of girders. Span 3 stained from train exhaust.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>12</b> )						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 4 Spans, Lengths(m): 14-18-18-14, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	4			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		N	N	
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		N	N	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		6	6	4 columns/pier. Massive concrete base.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0</b> )				
Spall on P2 @ SE corne .				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Heavily graffitied. Pigmented sealer. Grey.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	90 degree bend to East & West.
Traffic Safety Features		6	6	Minor creasing.
Type	Guardrail			
Slope Protection		5	5	Bulging slope protection.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL 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							
OTHER ACTION	2011	Replace missing GR to BR bolts.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.1/57.4</b>	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor concrete spall @ SE corner @ 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	Arnold Assenheimer		Previous Assistant's Name	Shane Hall			
Next Inspection Date	03-Jul-2013		Previous Inspection Date	14-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							