

Bridge Inspection										
Bridge File Number	75725 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1964/1964				Lot No.	2				
Bridge or Town Name	MENAİK				Inspector Name	Owen Salava				
Located Over	2:28 R1 12.233;2:28 L1 12.234				Inspector Class	BR CLS A				
Located On	25112:02 C1 0.272				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	22-Feb-2013				
Legal Land Location	SW SEC 13 TWP 44 RGE 26 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:38:41, 52:47:07				Data Entry Date	14-Mar-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA17				Review Date	27-Feb-2013				
Clear Roadway/Skew	10.4 / 4 deg. (RHF)				Dept. Reviewer Name	Chris Black				
AADT/Year	125 / 2004 (E)				Dept. Review Date	14-Mar-2013				
Road Classification					Follow-Up By					
Detour Length (km)	13									
Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member			
Design Loading:	HS20						---> Primary Span			

Posting Information													
Required Vert. Clearance Posting (m)	UNDER: 2 L1 5.3m, 2 R1 5.2m												
Posted Vertical Clearance (Y/N)													
Posted:	Lane	NB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	
Remarks													
Required Load Posting (t)	Single				Semi				Truck Train				
Posted Loading (t)	Single				Semi				Truck Train				
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)						
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)						
Remarks													

Hazard Marker At Bridge (Y/N)	No												
Remarks													
Other Sign Types													

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curves to West. Vertical crest curve - limited sight distance - typical G/S.
Vertical Alignment		5	5	
Roadway Width (m)	10.000			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	53.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 4 Spans, Lengths(m): 13.7-28-28-13.7, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	5.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Leakage at abuts; icing on abut elements.
Temperature (deg. C)		-3			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
86		E. abut			
82		W. abut			
Deck Drainage			7	4	75mm dia retrofit drain @ SE & NE. Joint moisture affects abuts & undermines slope protection.
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	5-A/B's @ back of assemblies @ N & 3 - A/B's @ S - have 1/4 less than entire bolt into nut.
(Type : GALVANIZED STEEL VERTICAL BAR)					
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)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			5	5	High load damage scraps & chips on S3G1,7.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 28)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 4 Spans, Lengths(m): 13.7-28-28-13.7, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		6	6	
Temperature (deg. C)	-3			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	1			
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				
Bearing Seats/Caps		7	7	Icing on seats, backwalls, breastwalls & slope protection.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		7	7	
Type	GUARDRAIL			
Slope Protection		3	3	Slope protection separated from abuts - E. 80 mm & W. 70 mm. Btm 2m @ W&E breaking up & lifted-lesser extent on West. Top of East slope protection is sloping towards abutment, runoff ponding.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	4	Concrete slope jammed against pier columns.
Drainage		7	7	
Grade Separation General Rating		6	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										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	2013	Consider sealed joint sor add breastwall plumbing to protect slope.								
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2013	Repair sections of concrete slope protection; consider toe wall & improved drainage at toe too.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	64.6/62.1	Est. Repl. Yr	2034	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection		Department Comments								
Maintenance Reviewed By		Date				Estimated Total	0			
Proposed Long-Term Strategy	Chip seal by 2018. Rehab/replace by 2040. RS									
On 3-Year Program (Y/N)	Y									
Proposed Action	Seal deck in 2009/10.RS									
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	22-Nov-2014	Previous Inspection Date	13-Jul-2011							
Inspection Cycle (Default) (months)	21									
Comment										

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	2013	Consider sealed joint sor add breastwall plumbing to protect slope.	when next on site	2014		
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Repair sections of concrete slope protection; consider toe wall & improved drainage at toe too.	when next on site	2014		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	64.6/62.1	Est. Repl. Yr	2034	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Bridge tentatively scheduled for replacement in 2039 (PMA)		
Maintenance Reviewed By	John Umlah		Date	01-May-2013	Estimated Total	0
Proposed Long-Term Strategy	Chip seal by 2018. Rehab/replace by 2040. RS					
On 3-Year Program (Y/N)	Y					
Proposed Action	Seal deck in 2009/10.RS					
Previous Inspector's Name	Owen Salava		Previous Assistant's Name			
Next Inspection Date	22-Nov-2014		Previous Inspection Date	13-Jul-2011		

Inspection Cycle (Default) (months)	21
Comment	