

Bridge Culvert Inspection			
Bridge File Number	84105 -2 Bridge Culvert	Form Type	CUL1
Year Built	2010	Lot No.	4
Bridge or Town Name	PEDESTRIAN UNDERPASS ON WEST-SOUTH RAMP OF TWP 261 & HWY 2	Inspector Name	Tom Carey
Located Over	TRAIL-PED	Inspector Class	BR CLS A
Located On	FUTURE W-S RAMP	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	28-Oct-2011
Legal Land Location	NE SEC 1 TWP 26 RGE 1 W5M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-114:00:17, 51:11:52	Data Entry Date	18-Nov-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	UNDEFINED CMA	Review Date	02-Nov-2011
Clear Roadway/Skew	10 / 0 deg.	Dept. Reviewer Name	Tim Davies
AADT/Year	5,000 / 2011 (E)	Dept. Review Date	21-Nov-2011
Road Classification	RLU-208-100	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	4200	3600	PCB	22.5			RECTANGLE
Special Features	BARREL LIGHTING							
Special Features Comment								

Posting Information

Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)
Remarks											

Utilities (Located at)

Utility Attachments											
Telephone						Gas					
Power	Multiple wires to East.					Municipal					
Others	Light standards.					Problem (Y/N)	No				
Remarks	Storm water pond to NE										

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		7	Curve
Vertical Alignment		7	Grade
Roadway Width (m)	9.200		One way W/B on road above. 3.2m wide A.C.P pedway underneath.
Embankment		8	
Sideslope (__:1)			
(Height of Cover(m) : 1.8)			
Guardrail (Y/N)	Yes		At East only.
Approach Road / Embankment General Rating		7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		West
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall		9	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar			X	
Wingwalls			9	
(Shape : FLARE)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			X	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			X	
Beavers (Y/N)				
Upstream End General Rating			9	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4200, Rise (mm): 3600, Type: PCB)				
Barrel Last Accessible Date	28-Oct-2011			
Special Features				
Special Feature			8	Safety rail on wingwalls.
(Type : BARREL LIGHTING)				
Special Feature				
(Type :)				
Roof			8	A.C.P to roof for reference.
Measured Rise (mm)	3517			
Measured At Ring No.	8			
Sag (mm)	0			
Percent Sag	0			
Sidewall			8	
Measured Span (mm)	4210			
Measured At Ring No.	8			
Deflection (mm)	0			
Percent Deflection	0			
Floor			N	80mm ACP covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			6	Roto foam sealed. As much as 25mm horizontal misalignment.
Separation (mm)	12			
Longitudinal Seams			X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4200, Rise (mm): 3600, Type: PCB)				
Coating			X	No coating at box or wings.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			X	
Baffle			X	
(Type :)				
Waterway Adequacy			X	
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating			8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall			8	Staining.
Collar			X	
Wingwalls			9	
(Shape : FLARE)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			X	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			X	
Beavers (Y/N)				
Downstream End General Rating			8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment			X	3.2m wide pedway flares to 4.1m wide in box.
Roadway Surface			8	
(Type : ACP)				
Icing (Y/N)	No			
Traffic Safety Features			X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting			9	2 lights in box at Southside.
Barrel Leakage (Y/N)	No			
Drainage			8	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating			8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/88.9	Sufficiency Rating (Last/Now) (%)	/92.1	Est. Repl. Yr	2060	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			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			Previous Assistant's Name				
Next Inspection Date	28-Jul-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							