Bridge Culvert Inspection     CUL1       Vear Built     1980     Loc No.     4       Bridge or Town Name     DRUMHELLER     Inspector Name     Owen Salava       Located Over     MICHICHI CREEK, 3.35, WATERCRS-ST     Inspector Class     BR CLS A       Located On     9:06 C1 2.366     Assistant Name     Owen Salava       Water Body CL/Year     Inspector Name     Owen Salava       Located On     9:06 C1 2.366     Assistant Name       Water Body CL/Year     Inspecton Date     01-Nov-2011       Legal Land Location     SW SEC 14 TWP 29 RGE 20 W4M     Data Entry By     Marcia Chavez       Longitude, Latitude     +112:42:56, 51:28:27     Data Entry Date     24-Nov-2011       Road Authority     Alberta Transportation (AIT)     Reviewer Name     Andrew Smikles       Contract Main Area     CMA21     Reviewer Name     Andrew Smikles       AADT/Year     2,810 / 2010 (A)     Dept. Reviewer Name     Andrew Smikles       ADD / Year     2,810 / 2010 (A)     Dept. Reviewer Name     Andrew Smikles       Bridge Culvert Information     Number of Culvents     1     Nome						
Year Built   1980   Lot No.   4     Bridge or Town Name   DRUMHELLER   Inspector Name   Owen Slava     Located Over   MICHICHI CREEK, 3.35, WATERCRS-ST   Inspector Class   BR CLS A     Located On   0:06 C1 2:366   Sistant Name   BR CLS A     Water Body CI/Year						
Bridge or Town Name DRUMHELLER Inspector Name Owen Salava   Located Over MICHICHI CREEK, 3.35, WATERCRS-ST Inspector Class BR CLS A   Located Over 9:06 C1 2.366 Kasistant Name BR CLS A   Water Body CL/Year Assistant Class 01-Nov-2011   Logal Lond Location SW SEC 14 TWP 29 RGE 20 W4M Data Entry By Marcia Chavez   Longitude, Latitude 112:42:56, 51:28:27 Data Entry Date 01-Nov-2011   Contract Main. Area CMA21 Review RName John O'Brien   Contract Main. Area CMA21 Review Plane 13-Nov-2011   Clear Roadway/Skew 10/40 deg. (RHF) Detp. Review Date 13-Nov-2011   Road Classification RAU-210-110 Follow-Up By Variew Smikes   ADT/Year 2410/2010 (A) Follow-Up By Variew Smikes   Petor Length (km) 16 Traverse rote Follow-Up By   Prige Cluwert Information 7200 7200 AP 67.5 Incomes   Special Features Special Features Special Features State Single A State Single A   Power 1 wire OH 50m U/S. Varie Single A State Single A State Single A   Contract Alignment 17.500 S 5 S						
Located Over Located On Water Body CL/YearMICHICHI CREEK, 3.35, WATERCRS-ST Assistant NameInspector Class Assistant NameBR CLS AWater Body CL/Year Wargabi. CL/Year $$						
Assistant NameAssistant NameWater Body CL/YearAssistant ClassNavigabil. CL/YearAssistant ClassInspection Date01-Nv-2011Legal Land LocationSW SEC 14 TWP 29 RGE 20 W4MData Entry PotMarcia ChavezLongitude, Latitude112:42:56, 51:28:27Data Entry PotData Entry PotMarcia ChavezContract Main. AreaCMA21Terry DateData Entry PotJohn O'BrienContract Main. AreaCMA21UserDept. Review NameJohn O'BrienAADT/Year2,810 / 2010 (A)UserDept. Review Date24-Nov-2011AADT/Year2,810 / 2010 (A)UserDept. Review Date24-Nov-2011BarrelSpanRise (or Dia.)TypeLengthCorr. ProfilePI/Slab ThicknessShape1Pidge Culvert Information72007200APGrif.Corr. ProfilePI/Slab ThicknessShape1Main72007200APGrif.Gorr. ProfilePI/Slab ThicknessARCH2Span=1Rise (or Dia.)TypeKuncipalCorr. ProfilePI/Slab ThicknessARCH2SpanRise (or Dia.)TypeKuncipalCorr. ProfilePI/Slab ThicknessARCH2SpanRise (or Dia.)TypeKuncipalCorr. ProfilePI/Slab ThicknessARCH2SpanRise (or Dia.)TypeKuncipalCorr. ProfilePI/Slab <br< td=""><td></td></br<>						
Aasistant ClassAssistant ClassAssistant ClassNavigabil. CL/YearAssistant ClassInspection DateO1-Nov-2011Legal Land LocationSW SE 14 TWP 29 RGE 20 W/WData Entry ByMarcia ChavezLongitude, Lativude						
Navigabil. Cl./YearO1-Nov-2011Use of the target of the target of						
Idate Entry ByMarcia ChavezLongitude, Laittude-112-42-56, 51:28:27UU24-Nov-2011URead AuthorityAlbert Transportation (IIT)Keviewer NameJohn O'BrienJohn O'BrienCitar Roadwa//Viewer10 40 GE: (RHF)Keviewer NameJohn O'BrienJohn O'BrienADDT/Year2,810 / 2010 (A)EDept. Reviewer NameAndrew SmiklesAADT/Year2,810 / 2010 (A)EDept. Reviewer NameAndrew SmiklesRoad ClassificationRAU-21-110ESept. Reviewer NameAndrew SmiklesBridge ClusettimeRait (Alberty Name)16Sept. Reviewer NameAndrew SmiklesStridge ClusettimeSpanRise (or Dia.)Type: termLength (Alberty Name)Reviewer Name)Number of ClusettimeNameSpanRise (or Dia.)Type: termLength (Alberty Name)Reviewer Name)Number of ClusettimeNameSpanRise (or Dia.)Type: termLength (Alberty Name)Reviewer Name)Special FeaturesSpanRise (or Dia.)Type: termLength (Alberty Name)Reviewer Name)Special FeaturesSpanRise (or Dia.)Type: termCorr. ProfilePl/SlabSpecial FeaturesTube: termSpanRise (or Dia.)Name)SpanSpecial FeaturesTube: termSpanSpanReviewer Name)SpanSpecial FeaturesTube: termSpanSpanSpanSpanSpecial FeaturesTube: term <t< td=""><td></td></t<>						
Longitude, Latiitude   - 112:42:56, 51:28:27   Set is transportation (AIT)   Easy is transportation (AIT)   Review IN and Park   Oath Or Disin   Set is transportation (AIT)   Review IN and Park   Oth Or Disin   Set is transportation (AIT)   Set is transportation (AIT)   Review IN and Park   Oth Or Disin   Set is transportation (AIT)   Set is transportation (AIT)   Review IN and Park   Oth Or Disin   Set is transportation (AIT)   Set is transpo						
Read Authoriy Contract Main. Area   Alberta Transportation (AIT)   Reviewer Name   John O'Brien     Contract Main. Area   CMA21   Reviewer Name   Andrew Smikles   Ishov-2011     Clear Roadwa//Kear   2,810 / 2010 (A)   U   Dept. Reviewer Name   Andrew Smikles   Ishov-2011     AADT/Year   2,810 / 2010 (A)   V   Follower V   V <t< td=""><td></td></t<>						
Contract Main, Area   CMA21   Image: CMA21 <t< td=""><td></td></t<>						
Clear Roadway/Skew10/40 deg. (RHF)Dept. Reviewer NameAndrew SmiklesAADT/Year2,810 / 2010 (A)Dept. Review Date24-Nov-2011Road ClassificationRAU-210-110Dept. Review Date24-Nov-2011Detu Length (km)16Tollow Up BySecond ClassificationSecond ClassificationBridge CulvertsIPige CulvertsINumber of CulvertsIY 200TypeARCHSpecial FeaturesGasISpecial FeaturesGasSpecial FeaturesSpecial FeaturesGasPower1 wire OH 50m U/S.Kate NowExplanation of ConditionOthers 1Intersection South on a curve. Campground entrance over pipOthers 1SigeStope (_:1)South Review South on a curve. Campground entrance over pipPower1Stope (I = 1)SigleStope (_:1)SigleStope (_:1) <td></td>						
AADT/Year   2,810 / 2010 (A)   Dept. Review Date   24-Nov-2011     Road Classification   RAU-210-110   Follow-Up By   Follow-Up By     Bridge Culvert Information   1   Follow-Up By   Follow-Up By     Pipe #   Barrel   1   Follow-Up By   Follow-Up By     1   MAIN   7200   7200   AP   Length   Corr. Profile   Pl./Slab   Shape     1   MAIN   7200   7200   AP   67.5   Image: Corr. Profile   Pl./Slab   Shape     1   MAIN   7200   7200   AP   67.5   Image: Corr. Profile   Pl./Slab   Shape     1   MAIN   7200   7200   AP   67.5   Image: Corr. Profile   Pl./Slab   Shape     1   MAIN   V   7200   AP   Gas   Image: Corr. Profile   Pl./Slab   ARCH     Special Features   V   Vertical Alignet Multicipal   Multicipal   Multicipal   Image: Corr. Profile   Pl./Slab   ARCH     Power   1   Mire OH 50m U/S.   Multicipal   Multicipal   Image: Corr. Profile   Image						
Rad Classification     RAU-210-110     Follow-Up By       Detour Length (km)     16       Bridge Culvert Information     I       Number of Culverts     1       Pipe #     Barrel     Span     Rise (or Dia.)     Type     Length     Corr. Profile     PI/Slab     Shape       1     MAIN     7200     7200     AP     67.5     Image: Corr. Profile     PI/Slab     Shape       1     MAIN     7200     7200     AP     67.5     Image: Corr. Profile     PI/Slab     Shape       Special Features     Image: Corr. Profile     PI/Slab     Shape     ARCH       Special Features     Image: Corr. Profile     PI/Slab     Shape       Telephone     Image: Corr. Profile     Vertice attrice     Image: Corr. Profile     Pinents       Remarks     Image: Corr. Profile     Image: Corr. Profile     Image: Corr. Profile     Pinents       Remarks     Light standard     Image: Corr. Profile     Image: Corr. Profile     Image: Corr. Profile     Pinents       Horizontal Alignment     So     S     S						
Detour Length (km)     16       Bridge Culvert Information     I       Number of Culverts     1       Pipe #     Barrel     Span     Rise (or Dia.)     Type     Length     Corr. Profile     PL/Slab     Shape       1     MAIN     7200     7200     AP     67.5     orted to the constraint of the c						
Bridge Culvert INFORMATIONNumber of Culverts1Number of CulvertsSpanRise (or Dia.)Type						
Number of Cull< Image: Pipe #1Pipe #BarrelSpanRise (or Dia.)TypeLengthCorr. ProfilePl/Slab ThicknessShape1MAIN7207200 $\mathbb{AP} - \mathbb{V}$ 67.5OARCHSpecial FeaturesSpecial Feat						
Pipe # IntervalBarrelSpanRise (or Dia.)TypeLengthCorr. ProfilePl./Slab ThicknessShape1MAIN72007200AP67.50ARCHSpecial FeaturesSpecial FeaturesSpecial FeaturesSpecial FeaturesSpecial FeaturesARCHSpecial FeaturesSpecial Features <td></td>						
1MAIN72007200AP67.5ARCHARCHSpecial FeaturesSpecial FeaturesSpecial FeaturesUtility AttachmetsUtility AttachmetsTelephonePower1 wire OH 50m U/S.Utility Standard.Special FeaturesGasOthersLight standard.Special FeaturesSpecial FeaturesOthersLight standard.Special FeaturesSpecial FeaturesOthersLight standard.Special FeaturesSpecial Features <td< td=""><td>аре</td></td<>	аре					
Special Features     Special Features Comment     Utilities (Uocated at)     Utility Attachments     Telephone     Power   1 wire OH 50m U/S.   Municipal     Others   Light standard.   Problem (Y/N)   No     Remarks   Iteration of Condition   Intersection South on a curve. Campground entrance over pip     Horizontal Alignment   T   5   5   Intersection South on a curve. Campground entrance over pip     Roadway Width (m)   17.500   I   7   7   Staeled.     Embankment   Transverse cracks in ACP @ both sides of structure, previous sealed.     Embankment   3.0   7   7     Sideslope (_:1)   3.0   7   7     Gas   9   7   7	СН					
Special Features Comment     Utilities (Located at)     Gas     Power   1 wire OH 50m U/S.     Municipal     Others   Light standard.     Problem (Y/N)   No     Remarks     Intersection South on a curve. Campground entrance over pip     Note: Last   Nov   Explanation of Condition     Horizontal Alignment   5   Intersection South on a curve. Campground entrance over pip     Vertical Alignment   7   7     Node with N   Intersection South on a curve. Campground entrance over pip     South. Road is superelevated over pipe, in curve. Rise 150m     Read-With (m)   17.500   Transverse cracks in ACP @ both sides of structure, previous sealed.     Embankment   7   7     Sideslope (_:1) <th cols<="" td=""><td></td></th>	<td></td>					
Utility Attachments   Gas     Telephone   1 wire OH 50m U/S.   Municipal     Others   Light standard.   Problem (Y/N)   No     Remarks   Frank   Problem (Y/N)   No     Horizontal Alignment   Last   Now   Explanation of Condition     Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip South. Road is superelevated over pipe, in curve. Rise 150m     Roadway Width (m)   17.500   7   7     Sideslope (_:1)   3.0   7   7     Kideslope (_:1)   3.0   7   7						
Utility Attachments   Gas     Telephone   1 wire OH 50m U/S.   Municipal     Others   Light standard.   Problem (Y/N)   No     Remarks     Foreign (Y/N)     Foreign (Y/N)     Now     Exploract / Embankment     Foreign (Y/N)     Now     Exploract / Embankment     Foreign (Y/N)     Horizontal Alignment   Last   Now   Explanation of Condition     Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip     Vertical Alignment   7   7   South. Road is superelevated over pipe, in curve. Rise 150m     Roadway Width (m)   17.500   Image: Foreign (Y/N)   Image: Foreign (Y/N)     Sideslope (_:1)   3.0     (Height of Cover(m) : 1.2)						
Telephone   Gas     Power   1 wire OH 50m U/S.   Municipal     Others   Light standard.   Problem (Y/N)   No     Remarks   Froblem (Y/N)   No     Horizontal Alignment   Last   Now   Explanation of Condition     Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip South. Road is superelevated over pipe, in curve. Rise 150m     Roadway Width (m)   17.500   Image: Colspan="4">Image: Colspan="4">Transverse cracks in ACP @ both sides of structure, previous sealed.     Embankment   7   7   7     Sideslope (_:1)   3.0   Image: Colspan="4">Telephone (Image: Colspan="4"Telephone (Image: Colspan="4"Telephone (Image: Colspan="4"Telephon=						
Power   1 wire OH 50m U/S.   Municipal     Others   Light standard.   Problem (Y/N)   No     Remarks   Approach Road / Embankment   Explanation of Condition     Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip South. Road is superelevated over pipe, in curve. Rise 150m     Kendway Width (m)   17.500   Intersection South on a Curve. Campground entrance over pipe. South. Road is superelevated over pipe, in curve. Rise 150m     Embankment   7   7   Transverse cracks in ACP @ both sides of structure, previous sealed.     Imbankment   3.0   7   7     Kideslope (_:1)   3.0   7   7     Kideslope (_:1)   3.0   7						
Others   Light standard.   Problem (Y/N)   No     Remarks   Problem (Y/N)   No     Explanation of Condition     Intersection South on a curve. Campground entrance over pip     Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip     Vertical Alignment   7   7   5   5     Roadway Width (m)   17.500   Image: Colspan="4">Image: Colspan="4">Image: Colspan="4">Colspan="4">Image: Colspan="4">Colspan="4">Image: Colspan="4">Image: Colspan="4"     Roadway Width (m)   17.500   Image: Colspan="4">Image: Colspan="4"   Image: Colspan="4"     Gldeslope (_:1)   3.0   Im						
Approach Road / Embankment     Approach Road / Embankment     Last   Now   Explanation of Condition     Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip South. Road is superelevated over pipe, in curve. Rise 150m     Roadway Width (m)   17.500   Image: Color of the col						
Approach Road / Embankment     Last   Now   Explanation of Condition     Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip South. Road is superelevated over pipe, in curve. Rise 150m     Vertical Alignment   7   7   7     Roadway Width (m)   17.500   Image: Campact Ca						
Last   Now   Explanation of Condition     Horizontal Alignment   5   5     Vertical Alignment   7   7     Roadway Width (m)   17.500   Image: Condition of Co						
Horizontal Alignment   5   5   Intersection South on a curve. Campground entrance over pip     Vertical Alignment   7   7   7     Roadway Width (m)   17.500   Intersection South on a curve. Campground entrance over pip     Embankment   7   7   7     Sideslope (:1)   3.0   7   7     (Height of Cover(m) : 1.2)   Intersection South on a curve. Campground entrance over pip						
Vertical Alignment   7   7   South. Road is superelevated over pipe, in curve. Rise 150m     Roadway Width (m)   17.500   Image: Construct on the second construction of the second consecond co	ning @					
Roadway Width (m)   17.500   Transverse cracks in ACP @ both sides of structure, previous sealed.     Embankment   7   7     Sideslope (_:1)   3.0	Om South.					
Embankment     7     7       Sideslope (:1)     3.0	ously					
Sideslope (:1)     3.0       (Height of Cover(m) : 1.2)						
(Height of Cover(m) : 1.2)						
Guardrail (Y/N) No Railing installed over headwalls only.						
	Railing installed over headwalls only.					
Approach Road / Embankment General Rating 5 5						
Upstream End						
Culvert Component     Last     Now     Explanation of Condition						
Direction N Concrete with railing.						
End Treatment (Concrete, Steel, CONCRETE Others, None)						
Headwall 7 7 Some map cracking paint starting to peel.						
Collar X X						
Wingwalls 7 7 Wings have moved in 25mm at top. Some cracks on both wal						
(Shape : ) minor.	walls,					
Cutoff Wall N N Submerged.	walls,					

Alberta Transportation

	i .		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	5	Some ditch runoff scour outside wing area adjacent to wingwall has eroded 300mm. Adequate rock underneath @ SE.
Beavers (Y/N)	No		1	
Upstream End General Rating		5	5	
				lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 7200	, Rise (mm): 7200, Type: AP)
Barrel Last Accessible Date	01-Nov-2011			Unable to measure due to silt.
Special Features			1	
Special Feature				
(Type:)				
Special Feature				
(Type : )				
Roof		8	8	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	8	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	3.6m from roof to silt @ midspan.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		Х	Х	
Separation (mm)				
Longitudinal Seams		Х	Х	
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)				
Coating		X	Х	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		1		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Sp	oan (mm	): 7200	), Rise (mm): 7200, Type: AP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		X	X						
(Type : )				-					
Waterway Adequacy		8	8						
Icing (Y/N)	No		U	-					
Silting (Y/N)	Yes			-					
Drift (Y/N)	No								
Barrel General Rating		N	8						
Daniel Conterai Mating									
				ream End					
Culvert Component			Now	Explanation of Condition					
Direction	0.0110	S		Concrete with railing.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		7	7						
Collar		X	X						
Wingwalls		7	7	Timber wall on both sides of stream. Wingwalls have moved in					
(Shape : )				30mm at top.					
Cutoff Wall		N	N	Submerged.					
Bevel End		X	X						
Heaving (mm)			~	-					
Invert Above/Below Stream Bed	BELOW			(2003/08/14)					
Above/Below (mm)	800								
Scour Protection		8	8						
(Type : NATURAL)									
(Avg. Rock Size(mm) : )									
Scour/Erosion		8	8						
Beavers (Y/N)	No	_							
· · ·			-						
Downstream End General Ratir	ng	7	7						
				re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		7	7						
Alignment		7	7						
Bank Stability		8	8	Timber retaining walls D/S both banks approx 100m length.					
HWM (m below Top of Culvert)	1.0								
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No			1					
(Fish Compensation Measure 1 :	-								
(Fish Compensation Measure 2 :				1					
Channel General Rating		7	7						

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) 55.6/88. (%)		.9 Sufficiency Rating (Last/N (%)	low)	64.0/82.0	Est. Repl. Yr	st. Repl. Yr 2040		qd. (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 Owen Salava			Previous	Assistant's Name							
Next Inspection Date 01-Aug-2013			Previous	nspection Date	09-Mar-2010						
Inspection Cycle (Default) (months) 21											
Comment											