			:	Brida	e Culve	ert Inspectio	n			
ber	09515 -	1 Bridge Culv		~		Form Type		CULE		
	1954					Lot No.		2		
Name	CARST	AIRS				Inspector Na	ame	Owen Salava		
		AIRS CREEK	, 3.33.21, W	ATEF	RCRS-	Inspector C	lass	BR CLS A		
	ST									
	2:20 L1	4.944;2:20 R	1 4.944			Assistant Cl	lass			
Year						Inspection D	Date	11-Mar-2013		
						Data Entry I	By	Marcia Chave	Z	
ation	SW SE	C 36 TWP 29	RGE 1 W5M	<u> </u>				26-Mar-2013		
ude		·						John O'Brien		
	Alberta	Transportation	n (AIT)			Review Date	<u> </u>	16-Mar-2013		
Area	CMA29					Dept. Revie	wer Name			
Skew	37 /					·				
	27,530	/ 2011 (A)								
tion	RFD-41	2.4-130				_ '	,			
km)	1									
	ation									
				1				1	1	
Barrel		Span	Rise (or D	ia.)	Type	Len	gth	Corr. Profile		Shape
11/9			2125		QD.	16.0	<u> </u>	152Y51	THICKIESS	ROUND
										ROUND
							·			ROUND
		- -						152/51		RECTANGLE
		5940						150V51		
		<u>-</u>								ROUND
		- DADDEL ELD			5P	43.4	!	152X51		ROUND
		BARREL ELB	BOW							
s Comr	ment									
				Uti	lities (L	_ocated at)				
nts					Ì	<u> </u>				
T	east, wes	st ditches.				Gas				
						Municipal				
			service road.				N) No			
	•						,			
			App	roac	h Road	d / Embankm	nent			
			1		Now			tion		
ment				8	8	N & S lanes	Hwy 2 & E	E & N services i	ds, long sag c	urve with good
ent				6	5	sight distand	ce.			
(m)		37.000								
				5	5					
:1)		2.5				1				
•	9.5)									
(', '	-/	Yes				On service i	roads.			
d / Emk	oankme	nt General Ra	ating	6	6					
			J			A [==!				
non!							n of Const	tion		
nent					MON	⊏xpianatioi	ii oi Condi	uon		
			I V	٧		I .				
(Conord	oto Stor	J QTEE!								
(Concre	ete, Stee	el, STEEL		X	Х					
	Year ear ation ude Area (Skew tion km) Inform erts Barrel U/S U/S U/S MAIN D/S D/S s Comr s Comr ents area (m)	Name CARST CARST ST 2:20 L1 Year ear ation SW SE ude -114:01 Alberta Area CMA29 Skew 37 / 27,530 tion RFD-41 km) 1 Information erts Barrel U/S U/S U/S MAIN D/S D/S s Comment Both east, wese 2 wire approx Fibre optics @ ment ent (m) c1) /er(m): 9.5)	1954 Name CARSTAIRS CARSTAIRS CARSTAIRS CREEK ST 2:20 L1 4.944;2:20 R Year Patricipal P	Second S	Second S	Second S	Dept	1954	Dept. 09515 - 1 Bridge Culvert 1954	Description 1954

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Collar		Х	Х	
Wingwollo		X	X	
Wingwalls				
(Shape:) Cutoff Wall		Х	V	
Cuton wan			X	
Bevel End		7	7	Drift at inlet of centre pipe.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
J				
				Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		(mm):	, ,	Rise (mm): 2125, Type: SP)
Barrel Last Accessible Date	11-Mar-2013			S u/s extension; design dia. 2120.
Special Features				
Special Feature				
(Type:)			_	
Special Feature				
(Type:)				
Roof		7	7	Unable to measure due to ice.
Measured Rise (mm)	2130			
Measured At Ring No.	3			(Lauranda
Sag (mm)	10			(Upwards 0.5%. 26Oct2011).
Percent Sag	1			, , , , , , , , , , , , , , , , , , ,
Sidewall		7	7	
Measured Span (mm)	2170			
Measured At Ring No.	3			0.404
Deflection (mm)	50			2.4%
Percent Deflection	2			
Floor		7	N	Ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			1N

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2125, Type: SP)
Coating		7	7	Minor, (superficial corrosion to floor. 26Oct2011).
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratir	ng	7	7	
		D :		
Culvert Component		Last		Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: II/S Span	-		Rise (mm): 2120, Type: SP)
Barrel Last Accessible Date	11-Mar-2013	(111111).	, ,	Middle u/s extension.
	11-Wai-2013			Middle u/S extension.
Special Features		I	1	
Special Feature				
(Type:)		1		
Special Feature				
(Type:)				
Roof	1	7	7	Unable to measure due to ice.
Measured Rise (mm)	2150			
Measured At Ring No.				(Upwards
Sag (mm)	30			1.4%. 26Oct2011).
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2150			
Measured At Ring No.				1.4%
Deflection (mm)	30			1.470
Percent Deflection	1			
Floor		7	N	Ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			1N

		Brio	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2120, Type: SP)
Coating		7	7	Minor, (superficial corrosion to floor. 26Oct2011).
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ng	7	7	
		Deic	dgo Cu	lvert Barrel
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S. Span			Rise (mm): 2115, Type: SP)
Barrel Last Accessible Date	11-Mar-2013	<u>().</u>		N u/s extension; 2120 design dia.
Dairei Lasi Accessible Date	11-Wai-2013			IN u/S extension, 2120 design dia.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Unable to measure due to ice.
Measured Rise (mm)	2138			
Measured At Ring No.	3			() lavva ada
Sag (mm)	18			(Upwards 0.9%. 26Oct2011).
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2155			
Measured At Ring No.	3			
Deflection (mm)	35			1.7%
Percent Deflection	2			
Floor		7	N	Ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two				
Cracked Seams Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
	Yes			1
Longitudinal Stagger (Y/N)	162			1N

on Code: U/S, Span	Last (mm):	Now	Explanation of Condition
_		. 1	Diag (mm), 2445, Tumo, CD)
Yes		, -	Rise (mm): 2115, Type: SP)
Yes	7	7	Minor, (superficial corrosion to floor. 26Oct2011).
Yes			
ZERO			
No			
	7	7	
	Х	Х	
	7	7	
No			
No			
No			
	7	7	
	Bric	lae Cu	Ivert Barrel
			Explanation of Condition
on Code: MAIN. Spa			, Rise (mm): 1980, Type: BP, Cell Sequence: 1)
11-Mar-2013			S cell.
	7	7	All walls have 1-3mm wide cracks.
			Transition bevelled to extension culvert & cell.
	6	6	Some horiz. & verti. cracks with seepage & effloresence.
1980			Unable to measure due to ice.
)			(26Oct2011)
)			(2000)
	5	5	Some med. isolated scaling.
1980			
)			
)			
	4	N	Jct boxes look good.
)			(Floor is deteriorating. 26Oct2011) - Ice.
Yes			
	4	4	(Exposed rebar & 50 mm of concrete
35			abraded @ floor. 26Oct2011) - Not visible due to ice; maintain rating. Seepage at seams.
	Х	Х	
	No N	7 No No No No No No No T Brice Last on Code: MAIN, Span (mm 11-Mar-2013 7 1980 5 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980	X X X X X X X X X X

Vaterway Adequacy			Drie	dae Cu	lvert Barrel
(Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP, Cell Sequence: 1)	Culvert Component				
Corrosion By Soil (Y/N)	-	ation Code: MAIN S			•
Corrosion By Soil (YN)		ation code. WAIN, 5			, Kise (IIIII). 1300, Type. Dr., Cell Sequence. 1)
Corrosion By Water (YN)			^		
Camber POS/ZERO/NEG ZERO	· · · · · · · · · · · · · · · · · · ·				
Ponding (Y/N)		7500			
Fish Passage Adequacy	Camber POS/ZERO/NEG	ZERU			
Baffile	Ponding (Y/N)	No			
Type : Waterway Adequacy	Fish Passage Adequacy		5	5	
Vaterway Adequacy	Baffle		Х	X	
Silting (Y/N) Yes Silting (Y/N) Yes	(Type:)				
Sitting (Y/N)	Waterway Adequacy		6	6	(ICED TO 900 mm FROM ROOF @ N BOX @ D/S. 970313).
Drift (Y/N)	Icing (Y/N)	Yes			
Barrel General Rating Culvert Component	Silting (Y/N)	Yes			Silt & gravel on d/s end.
Bridge Culvert Barrel	Drift (Y/N)	No			
Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP, Cell Sequence: 2) Barrel Last Accessible Date 11-Mar-2013 Middle cell. Special Features Special Feature (Type: BARREL ELBOW) Total No. of Raing No. Aga (mm) 1980 Measured Rise (mm) 1980 Measured At Ring No. Sidewall Measured Span (mm) 1980 Measured At Ring No. Deflection (mm) 0 Percent Deflection Total No. of Rings with Two Cracked Seams X X Spearation (mm) 0 Leaking roof seams. Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Reservation (mm) Calcal Rings Proper Lap (Y/N) Proper Lap (Y/N) Leaking roof seams.	Barrel General Rating		4	4	GR carried forward from 26Oct2011.
Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP, Cell Sequence: 2) Barrel Last Accessible Date 11-Mar-2013 Middle cell. Special Features Special Feature (Type: BARREL ELBOW) Total No. of Raing No. Aga (mm) 1980 Measured Rise (mm) 1980 Measured At Ring No. Sidewall Measured Span (mm) 1980 Measured At Ring No. Deflection (mm) 0 Percent Deflection Total No. of Rings with Two Cracked Seams X X Spearation (mm) 0 Leaking roof seams. Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Reservation (mm) Calcal Rings Proper Lap (Y/N) Proper Lap (Y/N) Leaking roof seams.			Brio	dae Cu	lvert Barrel
Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP, Cell Sequence: 2)	Culvert Component				
Barrel Last Accessible Date	-	ation Code: MAIN, S			
Special Feature 7					
All walls have 1-3mm wide cracks.	Special Features				
Citype : BARKEL ELBOW	Special Feature		7	7	Straight flow from centre SP to centre cell.
Type :)	(Type : BARREL ELBOW)				All walls have 1-3mm wide cracks.
Roof	Special Feature				
Measured Rise (mm) 1980 Measured At Ring No. 0 Sag (mm) 0 Percent Sag 0 Sidewall 6 6 Measured Span (mm) 1980 Measured At Ring No. 0 Deflection (mm) 0 Percent Deflection 0 Floor 5 N Sulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Abrasion (Y/N) Yes Circumferential Seams 4 4 Leaking roof seams. Separation (mm) 0 V X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams X X X Min. Remaining Steel Between Cracks (mm) Between Cracks (mm) Proper Lap (Y/N) Y/N) Proper Lap (Y/N)	(Type:)				
Measured At Ring No. Sag (mm) Percent Sag 0 Sidewall 6 6 6 Measured Span (mm) 1980 Measured At Ring No. Deflection (mm) 0 Percent Deflection 0 Floor 5 N Measured At Ring No. Abrasion (Y/N) Yes Circumferential Seams Separation (mm) 0 Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)	Roof		7	7	Unable to measure due to ice.
Sag (mm) 0 Percent Sag 0 Sidewall 6 6 Some med. isolated scaling. Measured Span (mm) 1980 Image: span scale of the scal	Measured Rise (mm)	1980			
Percent Sag	Measured At Ring No.				
Sidewall	Sag (mm)	0			
Sidewall 1980 198	Percent Sag	0			
Measured Span (mm) 1980 Measured At Ring No. 0 Deflection (mm) 0 Percent Deflection 0 Floor 5 N Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Abrasion (Y/N) Yes Circumferential Seams 4 4 Separation (mm) 0 Longitudinal Seams X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Proper Lap (Y/N)			6	6	Some med. isolated scaling.
Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Ves Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Proper Lap (Y/N) (Scale near W transition box. 26Oct2011) - Ice. Loeking roof seams Leaking roof seams. X X X		1980			1
Deflection (mm) 0 Percent Deflection 0 Floor 5 N (Scale near W transition box. 26Oct2011) - Ice. Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Yes Circumferential Seams 4 4 Leaking roof seams. Separation (mm) 0 Longitudinal Seams X X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)					
Percent Deflection 0		0			
Floor Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Yes Circumferential Seams Separation (mm) 0 Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) (Scale near W transition box. 26Oct2011) - Ice. N (Scale near W transition box. 26Oct2011) - Ice. N (Scale near W transition box. 26Oct2011) - Ice. N (Scale near W transition box. 26Oct2011) - Ice.	· í				
Bulge (mm) Measured At Ring No. Abrasion (Y/N) Yes Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)		, , , , , , , , , , , , , , , , , , ,	5	NI	(Scale near W transition box 26Oct2011) - Ice
Measured At Ring No. Abrasion (Y/N) Yes Circumferential Seams 4 4 Leaking roof seams. Separation (mm) 0 Longitudinal Seams X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)		0	3	14	(Sould field W transmort DOA. 2000(2011) - 106.
Abrasion (Y/N) Yes Circumferential Seams 4 4 4 Leaking roof seams. Separation (mm) 0 Longitudinal Seams X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)		J			-
Circumferential Seams 4 4 4 Leaking roof seams. Separation (mm) 0 Longitudinal Seams X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)		Voc			
Separation (mm) 0 Longitudinal Seams X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)		T es	4	4	Leaking roof seams.
Longitudinal Seams X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)		0			
Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)	, , , , , , , , , , , , , , , , , , ,		X	X	
Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)			Λ		
Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N)	Total No. of Rings with Two				
Proper Lap (Y/N)	Min. Remaining Steel				
Longitudinal Stagger (Y/N)	Longitudinal Stagger (Y/N)				

	Dri	das Cu	Ivert Barrel
			Explanation of Condition
ation Code: MAIN Sna			•
ation Code. MAIN, Spa			, Rise (IIIII). 1900, Type. BF, Cell Sequence. 2)
	X	X	
ZERO			
No			
	5	5	
	Х	Х	
	6	6	
No			Some silt on d/s end.
Yes			Johne Silt off d/3 end.
No			
	6	6	
	Brio	dae Cu	lvert Barrel
			Explanation of Condition
ation Code: MAIN, Spa			, Rise (mm): 1980, Type: BP, Cell Sequence: 3)
11-Mar-2013		<u>, </u>	N cell.
	7	7	Transition bevelled to extension culvert & cell.
			All walls have 1-3mm wide cracks.
	5	5	Roof stain & scale - corrosion stains from lateral cracks in roof.
1080	3	J	Unable to measure due to ice.
1900			
0			
			(26Oct2011)
0			
	4	4	Some med. isolated scaling. 2m2 area of heavy scaling in S wall near W end
1980			2m2 area of heavy scaling in S wall near W end. (N wall has corrosion stains at lower haunch & from cracks that
			extend into roof. 26Oct2011) - Ice.
0			
0			
	5	N	(Has 5m length of floor deteriorated.
0			Corrosion stains occur at several locations. 26Oct2011) - Ice.
Yes			
	4	4	Seams leaking on W end.
30			
	Х	Х	
			1
	No No No Yes No No No Yes No No No No No No No N	Last ation Code: MAIN, Span (mm X X X X X X X X X	Action Code: MAIN, Span (mm): 1980 X

			Explanation of Condition
			Explanation of Condition
tion Code: MAIN, Spa	ın (mm		, Rise (mm): 1980, Type: BP, Cell Sequence: 3)
, ,			
	, ,	,,,	
ZERO.			
22.10			
No			
	5	5	
	Х	Х	
	6	6	
No			Compa silt on d/s and
Yes			Some silt on d/s end.
	4	4	
		_	
		T	Ivert Barrel
			Explanation of Condition
	(mm):	,	Rise (mm): 2750, Type: SP)
11-Mar-2013			S d/s extension.
	7	7	Skewed 27 deg. to S.
			Nose iron painted.
	7	7	Unable to measure due to ice.
2680			
4			
70			(2.5%, 26Oct2011).
2			(2.070, 2000.2011).
	7	7	
2790			
4			
40			1.5%
1			
	N	N	Ice covered.
0			
No			
-	6	6	
0			
, v	7	7	
0	-		
U			
No			
	No Yes No No No No Yes No No No No No No No N	No	ZERO No 5 5 X X X 6 6 6 No Yes No 4 4 Bridge Cu Last Now tion Code: D/S, Span (mm): 11-Mar-2013 7 7 2680 4 70 2 7 7 2790 4 40 1

		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loc	ation Code: D/S. Span			Rise (mm): 2750, Type: SP)
Coating	,	6	6	Minor, (superfical corrosion to floor. 26Oct2011).
Corrosion By Soil (Y/N)	Yes			Some rust coming through bolt holes.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			(100mm silt on floor. 26Oct2011).
Silting (Y/N)	Yes			(1.55.11.11.51.11.155.1.255.12511).
Drift (Y/N)	No			
Barrel Extension General Rat	ing	7	7	
		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loc	ation Code: D/S, Span	(mm):	, 1	Rise (mm): 2755, Type: SP)
Barrel Last Accessible Date	11-Mar-2013			N d/s extension, design dia. 2750.
Special Features				
Special Feature		7	7	Skewed 27 deg. to S.
(Type: BARREL ELBOW)				Nose iron painted.
Special Feature				
(Type:)				
Roof		7	7	Unable to measure due to ice.
Measured Rise (mm)	2690			
Measured At Ring No.	3			
Sag (mm)	60			(2.2%. 26Oct2011).
Percent Sag	2			(2.270. 2000(2011).
Sidewall		7	7	
Measured Span (mm)	2780			
Measured At Ring No.	3			
Deflection (mm)	30			1.1%
Percent Deflection	1			1.170
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0		'	
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
,				
Longitudinal Stagger (Y/N)	Yes			

		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span	(mm):	, F	Rise (mm): 2755, Type: SP)
Coating		6	6	Minor, (superficial corrosion to floor. 26Oct2011).
Corrosion By Soil (Y/N)	Yes			Some rust coming through bolt holes.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)			1	
Waterway Adequacy		7	7	
Icing (Y/N)	No			(150mm silt on floor. 26Oct2011).
Silting (Y/N)	Yes			,
Drift (Y/N)	No			
Barrel Extension General Ratir	ıg	7	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	300		1	
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		Τ_		
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		T -	T -	
Alignment		8	8	STEEP CUT @ NW.
Bank Stability		5	5	
HWM (m below Top of Culvert)	1.8			(1.8 MIN MIDDLE BOX 940509)
Drift (Y/N)	Yes			logs 100m u/s @ u/s and d/s
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			

	S	Structu	re Usage
	Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)			
(Fish Compensation Measure 2 : NONE)			
Channel General Rating	8	8	

Alberta Transportation

		Maintenance Recommendations	commendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	omments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013						
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF)FF						
REPAIR SEAMS							
OTHER ACTION	2013	(Blast clean floor & cast 2m3 concrete to centre/North cell floors - 26Oct2011) & in N cell sidewall.	e to & in N cell				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now)	ow) 44.4/44.4	.4 Sufficiency Rating (Last/Now)	ow) 55.9/55.9	Est. Repl. Yr 2030	Maint. Reqd. (Y/N)		Yes
Special No action for seam seepage or abrasion at this time. Comments for Next Inspection	seepage or abra	asion at this time.	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	Φ			
Next Inspection Date	11-Dec-2014		Previous Inspection Date	26-Oct-2011			
Inspection Cycle (Default) (months)	21						
Comment							

			Maintenance Recom	nmend	ations					
Inspector Recommendations		Year Inspector Comments			Department Comments			Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION		2013			for operations	r operations				
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION		2013	(Blast clean floor & cast 2m3 concrete to centre/North cell floors - 26Oct2011) & i cell sidewall.	o in N	when next on site			2014		
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		44.4/44	.4 Sufficiency Rating (Last/Now (%)	v) 5	5.9/55.9	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection No action for seam seepage or abrasion at this time.					Department Comments	Scheduled for replacement in PMA 2034				
Maintenance Reviewed By	ntenance Reviewed By John Umlah				Date	30-Apr-2013	r-2013 Estimated Total 0			
Proposed Long-Term Strategy						·				
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Owen		Owen Salava Previous A			Assistant's Name					
Next Inspection Date 11-		11-Dec-2014 Previous			nspection Date	26-Oct-2011				
Inspection Cycle (Default) (months)	21									
Comment										