## Bridge Culvert Inspection

| | | | |
|---|---|---|---|
| Bridge File Number | 75205 -1 Bridge Culvert | Form Type | CUL1 |
| Year Built | 1986 | Lot No. | 4 |
| Bridge or Town Name | LA CRETE | Inspector Name | Brian Pientsch |
| Located Over | TRIBUTARY TO PEACE RIVER, 8.10.30, WATERCRS-ST | Inspector Class | BR CLS A |
| | | Assistant Name | Lisbeth Medina |
| Located On | 697:02 C1 39.221 | Assistant Class | |
| Water Body Cl./Year | | Inspection Date | 19-Feb-2010 |
| Navigabil. Cl./Year | | Data Entry By | Theresa Lacusta |
| Legal Land Location | NE SEC 12 TWP 104 RGE 18 W5M | Data Entry Date | 08-Mar-2010 |
| Longitude, Latitude | -116:49:21, 58:01:12 | Reviewer Name | Arnold Assenheimer |
| Road Authority | Alberta Transportation (AIT) | Review Date | 08-Mar-2010 |
| Contract Main. Area | CMA01 | Dept. Reviewer Name | Steve Pasquan |
| Clear Roadway/Skew | 10 / | Dept. Review Date | 01-Apr-2010 |
| AADT/Year | 380 / 2008 (A) | Follow-Up By | |
| Road Classification | RCU-210-110 | | |
| Detour Length (km) | 18 | | |

### Bridge Culvert Information

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Number of Culverts | | 1 | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | - | 4300 | SP | 35.4 | 152X51 | 3.0 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

## Utilities (Located at)

| | | | |
|---|---|---|---|
| Utility Attachments | | | |
| Telephone | | Gas | |
| Power | | Municipal | |
| Others | | Problem (Y/N) | |
| Remarks | | | |

## Approach Road / Embankment

| | | Last | Now | Explanation of Condition |
|---|---|---|---|---|
| Horizontal Alignment | | 7 | 7 | Intersection 75m west. |
| Vertical Alignment | | 9 | 9 | |
| Roadway Width (m) | 10.000 | | | |
| Embankment | | 7 | 6 | |
| Sideslope (__:1) | 2.0 | | | |
| (Height of Cover (m) : ) | | | | |
| Guardrail (Y/N) | No | | | |
| **Approach Road / Embankment General Rating** | | **7** | **7** | |

## Upstream End

| Culvert Component | | Last | Now | Explanation of Condition |
|---|---|---|---|---|
| Direction | | | | (South) |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | | |
| Headwall | | X | X | |
| Collar | | N | N | Snow covered |
| Wingwalls | | X | X | |
| (Shape : ) | | | | |
| Cutoff Wall | | N | N | |

| Upstream End | | | | |
|---|---|---|---|---|
| **Culvert Component** | | **Last** | **Now** | **Explanation of Condition** |
| Bevel End | | N | 6 | Ice and snow covered. |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | | | | |
| Scour Protection | | N | N | No apparent scour problems. |
| (Type : ) | | | | |
| (Avg. Rock Size (mm) : ) | | | | |
| Scour/Erosion | | N | N | |
| Beavers (Y/N) | No | | | |
| **Upstream End General Rating** | | **8** | **6** | |

| Bridge Culvert Barrel | | | | |
|---|---|---|---|---|
| **Culvert Component** | | **Last** | **Now** | **Explanation of Condition** |
| (Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 4300, Type: SP**) | | | | |
| Barrel Last Accessible Date | 19-Feb-2010 | | | |
| **Special Features** | | | | |
| Special Feature | | | | |
| (Type : ) | | | | |
| Special Feature | | | | |
| (Type : ) | | | | |
| Roof | | 7 | 7 | (EST.-Mar 11, 2007) |
| Measured Rise (mm) | | | | Floor covered with ice. |
| Measured At Ring No. | | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | | | | |
| Sidewall | | 7 | 7 | |
| Measured Span (mm) | 4297 | | | |
| Measured At Ring No. | 4 | | | |
| Deflection (mm) | 3 | | | |
| Percent Deflection | | | | Deflection inward. |
| Floor | | N | N | Ice cover |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 8 | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 8 | 7 | |
| Total No. of Cracked Rings | 0 | | | 2N Stagger |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | Yes | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | N | 6 | (SOME RUST ON BOTTOM & SIDE PLATES. NO CHANGE - 97/03/11) |
| Corrosion By Soil (Y/N) | | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | NEG | | | |

| Bridge Culvert Barrel | | | | |
|---|---|---|---|---|
| **Culvert Component** | | **Last** | **Now** | **Explanation of Condition** |
| (Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 4300, Type: SP**) | | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 7 | 7 | |
| Baffle | | N | N | |
| (Type : ) | | | | |
| Waterway Adequacy | | 8 | 8 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| **Barrel General Rating** | | **7** | **7** | |

| Downstream End | | | | |
|---|---|---|---|---|
| **Culvert Component** | | **Last** | **Now** | **Explanation of Condition** |
| Direction | | | | (North) |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape : ) | | | | |
| Cutoff Wall | | N | N | |
| Bevel End | | N | N | Ice & snow cover |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | | | | |
| Scour Protection | | N | N | (Bevel projecting 2m from fill (photo). 2003/08/15 |
| (Type : ) | | | | |
| (Avg. Rock Size (mm) : ) | | | | Covered with snow. |
| Scour/Erosion | | N | N | |
| Beavers (Y/N) | No | | | |
| **Downstream End General Rating** | | **4** | **4** | GR carried forward. |

| Structure Usage | | | | |
|---|---|---|---|---|
| | | **Last** | **Now** | **Explanation of Condition** |
| **Channel (U/S and D/S)** | | | | |
| Alignment | | 6 | 6 | |
| Bank Stability | | 6 | 6 | Stable |
| HWM (m below Top of Culvert) | | | | HWM not visible |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | | | | (Beaver cuttings-Nov 23, 2006) |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : **NONE**) | | | | |
| (Fish Compensation Measure 2 : **NONE**) | | | | |
| **Channel General Rating** | | **6** | **6** | |

| 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) (%)** | **77.8/77.8** | **Sufficiency Rating (Last/Now) (%)** | **77.2/75.0** | Est. Repl. Yr | 2031 | Maint. Reqd. (Y/N) | No |

| | | | |
|---|---|---|---|
| Special Comments for Next Inspection | Monitor d/s scour. | 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 | Brian Pientsch | Previous Assistant's Name | Tim Miskiman | | |
| Next Inspection Date | 19-May-2013 | Previous Inspection Date | 23-Nov-2006 | | |
| Inspection Cycle (Default) (months) | 39 | | | | |
| Comment | | | | | |