

| Bridge Culvert Inspection | | | |
|---------------------------|----------------------------------|---------------------|-----------------|
| Bridge File Number | 73465 -2 Bridge Culvert | Form Type | CUL1 |
| Year Built | 2007 | Lot No. | 4 |
| Bridge or Town Name | INDIAN CABIN | Inspector Name | Brian Pientsch |
| Located Over | DELPHINE CREEK, 9.2, WATERCRS-ST | Inspector Class | BR CLS A |
| Located On | 35:20 C1 36.226 | Assistant Name | Clem Guenette |
| Water Body Cl./Year | | Assistant Class | |
| Navigabil. Cl./Year | | Inspection Date | 10-Jan-2012 |
| Legal Land Location | SW SEC 27 TWP 125 RGE 18 W5M | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -117:02:31, 59:53:15 | Data Entry Date | 28-Feb-2012 |
| Road Authority | Alberta Transportation (AIT) | Reviewer Name | Eric Carcoux |
| Contract Main. Area | CMA01 | Review Date | 26-Feb-2012 |
| Clear Roadway/Skew | 11.8 / | Dept. Reviewer Name | David Morrison |
| AADT/Year | 370 / 2011 (A) | Dept. Review Date | 30-Mar-2012 |
| Road Classification | RAU-211.8-110 | Follow-Up By | |
| Detour Length (km) | 999 | | |

| Bridge Culvert Information | | | | | | | | |
|----------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | | 1 | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | PI./Slab Thickness | Shape |
| 1 | MAIN | - | 4300 | SP | 39.62 | 152X51 | 3.0 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

| Utilities (Located at) | | | |
|------------------------|--------------------------------|---------------|----|
| Utility Attachments | | | |
| Telephone | West R/W | Gas | |
| Power | Single overhead line 25m east. | Municipal | |
| Others | | Problem (Y/N) | No |
| Remarks | | | |

| Approach Road / Embankment | | | | |
|--|--------|----------|----------|--------------------------|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 8 | 8 | Curve to South. |
| Vertical Alignment | | 9 | 9 | |
| Roadway Width (m) | 10.000 | | | |
| Embankment | | 8 | 8 | |
| Sideslope (___:1) | 4.0 | | | |
| (Height of Cover(m) : 1) | | | | |
| Guardrail (Y/N) | No | | | |
| Approach Road / Embankment General Rating | | 8 | 8 | |

| Upstream End | | | | |
|---|----------|------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | W | | Water 1m deep |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | | |
| Headwall | | 8 | 8 | |
| Collar | | 8 | N | sNOW COVERED |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | N | N | |

| Upstream End | | | | |
|---|-------------|----------|----------|---------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 8 | N | Snow covered |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | est |
| Above/Below (mm) | 1000 | | | |
| Scour Protection | | 7 | N | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 400) | | | | |
| Scour/Erosion | | 7 | N | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 7 | GR carried fwd from 26-May-2010 |
| 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 | 10-Jan-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 9 | 9 | @CL -Aug 27, 2008 |
| Measured Rise (mm) | 4300 | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | 0 | | | |
| Sidewall | | 8 | 8 | @CL |
| Measured Span (mm) | 4240 | | | Deflection inward |
| Measured At Ring No. | 5 | | | |
| Deflection (mm) | 60 | | | |
| Percent Deflection | 1 | | | |
| Floor | | N | N | Ice covered. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | N | 8 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | N | 8 | |
| Total No. of Cracked Rings | 0 | | | |
| 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 | | 7 | 7 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |

| Bridge Culvert Barrel | | | | |
|---|-------|----------|----------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4300, Type: SP) | | | | |
| Fish Passage Adequacy | | 9 | 9 | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 9 | 9 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | N | 8 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | E | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 8 | N | Snow covered |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 1000 | | | |
| Scour Protection | | 8 | N | Snow covered |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 400) | | | | |
| Scour/Erosion | | 8 | N | Snow covered |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 8 | 8 | GR carried fwd from 26-May-2010 |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Culvert) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : NONE) | | | | Note: Fish Compesnatrion Measure 1L Rootwads Two rootwads D/S. Two rootwads D/S |
| (Fish Compensation Measure 2 : NONE) | | | | |

| Structure Usage | | | | |
|-------------------------------|--|-------------|------------|---------------------------------|
| | | Last | Now | Explanation of Condition |
| 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/Now) (%) | 72.2/89.1 | Est. Repl. Yr | 2052 | 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 | Brian Pientsch | | Previous Assistant's Name | Lisbeth Medina | | | |
| Next Inspection Date | 10-Oct-2013 | | Previous Inspection Date | 26-May-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |