

| Bridge Culvert Inspection | | | | |
|---------------------------|-------------------------------|--|---------------------|---------------|
| Bridge File Number | 71597 -1 Bridge Culvert | | Form Type | CUL1 |
| Year Built | 1985 | | Lot No. | 4 |
| Bridge or Town Name | BODO | | Inspector Name | Jason Saly |
| Located Over | EYEHILL CREEK, 4, WATERCRS-ST | | Inspector Class | BR CLS A |
| Located On | 899:08 C1 33.823 | | Assistant Name | |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 08-Jun-2011 |
| Legal Land Location | NW SEC 9 TWP 37 RGE 1 W4M | | Data Entry By | Marcia Chavez |
| Longitude, Latitude | -110:05:56, 52:09:58 | | Data Entry Date | 27-Jun-2011 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | John O'Brien |
| Contract Main. Area | CMA22 | | Review Date | 17-Jun-2011 |
| Clear Roadway/Skew | 11 / 25 deg. (RHF) | | Dept. Reviewer Name | Chris Black |
| AADT/Year | 380 / 2010 (A) | | Dept. Review Date | 30-Jun-2011 |
| Road Classification | RCU-209-110 | | Follow-Up By | |
| Detour Length (km) | 6 | | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|---------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | PI./Slab Thickness | Shape |
| 1 | MAIN | 4723 | 3460 | RPE | 37.2 | 152X51 | 4.0 | ELLIPSE |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | | |
|---------------------|--------------------------------|--|---------------|----|
| Utility Attachments | | | | |
| Telephone | West r/w. | | Gas | |
| Power | 3 wires OH 15m E. (fenceline). | | Municipal | |
| Others | | | Problem (Y/N) | No |
| Remarks | | | | |

Approach Road / Embankment

| | Last | Now | Explanation of Condition |
|--|----------|----------|---|
| Horizontal Alignment | 6 | 6 | Blind crest curve to the North. No passing NB. |
| Vertical Alignment | 6 | 6 | |
| Roadway Width (m) | 9.700 | | |
| Embankment | 7 | 7 | |
| Sideslope (_ :1) | 3.0 | | |
| (Height of Cover(m) : 1) | | | |
| Guardrail (Y/N) | No | | |
| Approach Road / Embankment General Rating | 6 | 6 | |

Upstream End

| Culvert Component | Last | Now | Explanation of Condition |
|---|----------|-----|--------------------------|
| Direction | W | | |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | |
| Headwall | 7 | 7 | Honeycomb in most area. |
| Collar | N | 7 | |
| Wingwalls | X | X | |
| (Shape :) | | | |
| Cutoff Wall | N | N | Buried. |

| Upstream End | | | | |
|---|-------------|----------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | N | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 1385 | | | |
| Scour Protection | | N | 7 | Well vegetated. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | N | 7 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 7 | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4723, Rise (mm): 3460, Type: RPE) | | | | |
| Barrel Last Accessible Date | 01-Dec-2004 | | | (Middle 1.3m. Outlet 1.3m. Measured ice to roof. Inlet 1.4m. 01Dec2004). (Rise 3400 x span 4750 @ c/l. 010807). Pipe not accessible due to water levels (~1.5m). Viewed from ends; no problems visible. |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | N | N | |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | 20 | | | |
| Percent Sag | | | | |
| Sidewall | | N | N | |
| Measured Span (mm) | | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | 25 | | | |
| Percent Deflection | | | | |
| Floor | | N | N | Deep water. |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | N | N | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | N | N | (75% improperly lapped.) 01-Dec-2004 |
| 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 | | | |
| Coating | | N | 7 | As viewed from ends. |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | ZERO | | | |

| Bridge Culvert Barrel | | | | |
|--|----------|----------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4723, Rise (mm): 3460, Type: RPE) | | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | X | 7 | |
| Baffle | | N | N | |
| (Type :) | | | | |
| Waterway Adequacy | | N | 7 | (01/08/07) |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | Yes | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | N | N | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | E | | |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | | |
| Headwall | | 7 | 7 | Honeycomb in some area. |
| Collar | | N | 7 | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | N | N | Buried. |
| Bevel End | | N | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 1540 | | | |
| Scour Protection | | N | 7 | Well vegetated. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | N | 7 | |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | N | 7 | |
| HWM (m below Top of Culvert) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | | | | Unknown. |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| 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) (%) | 55.6/55.6 | Sufficiency Rating (Last/Now) (%) | 73.3/67.0 | Est. Repl. Yr | 2044 | 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 | Bryan Wai | | Previous Assistant's Name | | | | |
| Next Inspection Date | 08-Sep-2014 | | Previous Inspection Date | 27-Mar-2008 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |