

| Bridge Culvert Inspection | | | |
|---------------------------|--|---------------------|---------------|
| Bridge File Number | 71408 -2 Bridge Culvert | Form Type | CUL1 |
| Year Built | 2008 | Lot No. | 4 |
| Bridge or Town Name | BEISEKER | Inspector Name | Jon Davies |
| Located Over | 2ND ORDER TRIBUTARY TO ROSEBUD RIVER, 3.33.16.2, WATERCRS-ST | Inspector Class | BR CLS B |
| Located On | 9:02 C1 54.029 | Assistant Name | |
| Water Body Cl./Year | | Assistant Class | |
| Navigabil. Cl./Year | | Inspection Date | 26-Nov-2011 |
| Legal Land Location | SE SEC 13 TWP 28 RGE 25 W4M | Data Entry By | Anne Roberts |
| Longitude, Latitude | -113:22:54, 51:23:13 | Data Entry Date | 20-Dec-2011 |
| Road Authority | Alberta Transportation (AIT) | Reviewer Name | Garry Roberts |
| Contract Main. Area | CMA29 | Review Date | 05-Dec-2011 |
| Clear Roadway/Skew | 9 / 30 deg. (RHF) | Dept. Reviewer Name | Tim Davies |
| AADT/Year | 2,420 / 2010 (A) | Dept. Review Date | 10-Jan-2012 |
| Road Classification | RAU-209-110 | Follow-Up By | |
| Detour Length (km) | 5 | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | - | 1600 | SP | 46 | 125X26 | 2.8 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | |
|---------------------|------------------|---------------|-----------|
| Utility Attachments | | | |
| Telephone | South Ditch | Gas | 50m North |
| Power | 1 wire 20m North | Municipal | |
| Others | | Problem (Y/N) | No |
| Remarks | | | |

Approach Road / Embankment

| | | Last | Now | Explanation of Condition |
|--|--------|----------|----------|--------------------------|
| Horizontal Alignment | | 9 | 7 | |
| Vertical Alignment | | 9 | 8 | |
| Roadway Width (m) | 12.000 | | | |
| Embankment | | 9 | 8 | |
| Sideslope (__:1) | 4.0 | | | |
| (Height of Cover(m) : 2.4) | | | | |
| Guardrail (Y/N) | No | | | |
| Approach Road / Embankment General Rating | | 9 | 7 | |

Upstream End

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

| Upstream End | | | | |
|---|-------------|----------|----------|-------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 9 | 9 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 400 | | | |
| Scour Protection | | 9 | 9 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 9 | 9 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 9 | 9 | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: SP) | | | | |
| Barrel Last Accessible Date | 26-Nov-2011 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 9 | 9 | General roof shape is good |
| Measured Rise (mm) | 1600 | | | Estimate |
| Measured At Ring No. | | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | 0 | | | |
| Sidewall | | 9 | 9 | |
| Measured Span (mm) | 1600 | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | 0 | | | |
| Percent Deflection | 0 | | | |
| Floor | | 9 | N | PR 9 400 mm of ice throughout |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 9 | 9 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | X | X | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | |
| Min. Remaining Steel Between Cracks (mm) | 0 | | | |
| Proper Lap (Y/N) | No | | | |
| Longitudinal Stagger (Y/N) | No | | | |
| Coating | | 9 | 9 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| 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): 1600, 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 | | 9 | 9 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | S | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 400 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 7 | 4 | Small scour at top of bevel SW top corner 1.5 m long x 1.0 m wide x 0.8 m deep. |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 8 | 8 | |
| Bank Stability | | 9 | 9 | |
| HWM (m below Top of Culvert) | | | | HWM not visible |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | NONE | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 8 | 8 | |

| 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) (%) | 100.0/100.0 | Sufficiency Rating (Last/Now) (%) | 97.0/97.0 | Est. Repl. Yr | 2048 | 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 | Rex Davidson | | Previous Assistant's Name | | | | |
| Next Inspection Date | 26-Aug-2013 | | Previous Inspection Date | 26-May-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |