

| Bridge Culvert Inspection | | | | |
|---------------------------|---|--|---------------------|-----------------|
| Bridge File Number | 75394 -1 Bridge Culvert | | Form Type | CUL1 |
| Year Built | 1961 | | Lot No. | 4 |
| Bridge or Town Name | EVANSBURG | | Inspector Name | Todd Warshawski |
| Located Over | TRIBUTARY TO LOBSTICK RIVER, 8.11.84.51.4.1, WATERCRS-ST | | Inspector Class | BR CLS B |
| Located On | 16:10 L1 23.151;16:10 R1 23.099 | | Assistant Name | |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 27-Aug-2012 |
| Legal Land Location | NE SEC 22 TWP 53 RGE 8 W5M | | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -115:05:06, 53:35:49 | | Data Entry Date | 09-Sep-2012 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | Eric Carcoux |
| Contract Main. Area | CMA12 | | Review Date | 29-Aug-2012 |
| Clear Roadway/Skew | 24.6 / -18 deg. (LHF) | | Dept. Reviewer Name | Brent Herrick |
| AADT/Year | 8,050 / 2011 (A) | | Dept. Review Date | 18-Sep-2012 |
| Road Classification | RAD-412.4-120 | | Follow-Up By | |
| Detour Length (km) | 1 | | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|---------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | 1429 | 1575 | SPE | 93.3 | 152X51 | 3.0 | ELLIPSE |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | | |
|---------------------|-------------------|--|---------------|----|
| Utility Attachments | | | | |
| Telephone | North r/w | | Gas | |
| Power | 150m East. | | Municipal | |
| Others | | | Problem (Y/N) | No |
| Remarks | File tag u/s end. | | | |

Approach Road / Embankment

| | Last | Now | Explanation of Condition |
|--|----------|----------|-----------------------------|
| Horizontal Alignment | 7 | 7 | Approaches both directions. |
| Vertical Alignment | 7 | 7 | |
| Roadway Width (m) | 24.600 | | WBL 12.2m, EBL 12.4. |
| Embankment | 7 | 7 | |
| Sideslope (__:1) | 3.0 | | |
| (Height of Cover(m) : 6.4) | | | |
| Guardrail (Y/N) | No | | |
| Approach Road / Embankment General Rating | 7 | 7 | |

Upstream 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 | |

| Upstream End | | | | |
|--|-------------|----------|----------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | X | 5 | Torn and bent from riprap placement. |
| Heaving (mm) | 50 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 200 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 800) | | | | |
| Scour/Erosion | | 7 | 7 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 6 | 5 | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1429, Rise (mm): 1575, Type: SPE) | | | | |
| Barrel Last Accessible Date | 27-Aug-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 6 | 6 | |
| Measured Rise (mm) | 1499 | | | |
| Measured At Ring No. | 7 | | | |
| Sag (mm) | 76 | | | |
| Percent Sag | 5 | | | |
| Sidewall | | 6 | 5 | |
| Measured Span (mm) | 1533 | | | |
| Measured At Ring No. | 6 | | | |
| Deflection (mm) | 104 | | | |
| Percent Deflection | 7 | | | |
| Floor | | 6 | 5 | Pitting rust. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 6 | 5 | Several missing/loose nuts. |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 6 | 6 | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | | | | 1N stagger. |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | No | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 4 | 4 | 1.0 m wide strip along floor has pitting rust. Rust stains through top seams. |
| Corrosion By Soil (Y/N) | Yes | | | |
| 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): 1429, Rise (mm): 1575, Type: SPE) | | | | |
| Fish Passage Adequacy | | 4 | 4 | Perched end D/S. |
| Baffle (Type :) | | X | X | |
| Waterway Adequacy | | 4 | 4 | (Flows with approx 1.0m head. 2000/04/18) D/S scour hole. |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 6 | 5 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | N | | |
| End Treatment (Concrete, Steel, Others, None) | | STEEL | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls (Shape :) | | X | X | |
| Cutoff Wall | | X | X | |
| Bevel End | | 5 | 5 | Protruding from fill 500mm East side of bevel. Settlement stable. |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) | | 200 | | |
| Scour Protection | | 4 | 4 | D/S scour hole, erosion along East bevel. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 4 | 4 | Scour 1.5m D/S of end, 1 x 3 x 12m long. |
| Beavers (Y/N) | | No | | |
| Downstream End General Rating | | 4 | 4 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 6 | 6 | |
| Bank Stability | | 5 | 6 | |
| HWM (m below Top of Culvert) | | | | Grass on upper bolts. |
| Drift (Y/N) | | No | | |
| Channel Bottom Degrading/Aggrading | | DEGRADING | | |
| 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) (%) | 66.7/55.6 | Sufficiency Rating (Last/Now) (%) | 50.6/44.5 | Est. Repl. Yr | 2020 | 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 | Kris Bosters | | Previous Assistant's Name | | | | |
| Next Inspection Date | 27-May-2014 | | Previous Inspection Date | 05-Oct-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |