

| Bridge Culvert Inspection | | | | | | | | | |
|--|------------------------------|------|----------------|------------------|--|----------------|--------------------|------------------|--|
| Bridge File Number | 79507 -1 Bridge Culvert | | | | Form Type | CUL1 | | | |
| Year Built | 1987 | | | | Lot No. | 1 | | | |
| Bridge or Town Name | DRUMHELLER | | | | Inspector Name | Owen Salava | | | |
| Located Over | TRAIL-ANIMAL, OVER SP | | | | Inspector Class | BR CLS A | | | |
| Located On | 838:02 C1 8.028 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 11-May-2011 | | | |
| Legal Land Location | SW SEC 19 TWP 29 RGE 20 W4M | | | | Data Entry By | Marcia Chavez | | | |
| Longitude, Latitude | -112:48:32, 51:29:26 | | | | Data Entry Date | 27-May-2011 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | John O'Brien | | | |
| Contract Main. Area | CMA21 | | | | Review Date | 17-May-2011 | | | |
| Clear Roadway/Skew | 12 / | | | | Dept. Reviewer Name | Andrew Smikles | | | |
| AADT/Year | 290 / 2010 (A) | | | | Dept. Review Date | 20-Jun-2011 | | | |
| Road Classification | RCU-210-110 | | | | Follow-Up By | | | | |
| Detour Length (km) | 10 | | | | | | | | |
| Bridge Culvert Information | | | | | | | | | |
| Number of Culverts | 1 | | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | PI./Slab Thickness | Shape | |
| 1 | MAIN | - | 1785 | SP | 28.2 | 152X51 | 3.0 | ROUND | |
| Special Features | | | | | | | | | |
| Special Features Comment | | | | | | | | | |
| Posting Information | | | | | | | | | |
| Required Vert. Clearance Posting (m) | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | | | | | | | | | |
| Posted: | Lane | NB | On Bridge (m) | In Advance (Y/N) | Lane | SB | On Bridge (m) | In Advance (Y/N) | |
| Remarks | | | | | | | | | |
| Utilities (Located at) | | | | | | | | | |
| Utility Attachments | | | | | | | | | |
| Telephone | South r/w. | | | | Gas | | | | |
| Power | North r/w - 3 lines. | | | | Municipal | | | | |
| Others | | | | | Problem (Y/N) | No | | | |
| Remarks | | | | | | | | | |
| Approach Road / Embankment | | | | | | | | | |
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 7 | 7 | Located between curves. | | | | |
| Vertical Alignment | | | 6 | 6 | Grade increases to both sides. No passing both directions. 8.5km NW of Hwy 9 jct., 3.1km NW of Royal Tyrrell Museum. | | | | |
| Roadway Width (m) | 9.700 | | | | | | | | |
| Embankment | | | 8 | 8 | | | | | |
| Sideslope (__:1) | 3.0 | | | | | | | | |
| (Height of Cover(m) : 1.8) | | | | | | | | | |
| Guardrail (Y/N) | Yes | | | | | | | | |
| Approach Road / Embankment General Rating | | | 6 | 6 | | | | | |
| Upstream End | | | | | | | | | |
| Culvert Component | | | Last | Now | Explanation of Condition | | | | |
| Direction | | | N | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | NONE | | | | | | | | |
| Headwall | | | X | X | | | | | |

| Upstream End | | | | |
|------------------------------------|-------|----------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | X | X | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 200 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : NATURAL) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 7 | 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): , Rise (mm): 1785, Type: SP) | | | | |
| Barrel Last Accessible Date | 11-May-2011 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 5 | 3 | Hole in roof plate caused during installation. Patched & Coated. Isolated perforations; R9 are worst (photo). |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | | | | |
| Percent Sag | | | | |
| Sidewall | | 6 | 6 | 1.4% |
| Measured Span (mm) | 1760 | | | |
| Measured At Ring No. | 6 | | | |
| Deflection (mm) | 25 | | | |
| Percent Deflection | 1 | | | |
| Floor | | N | N | Concrete floor. Mud/ice covered. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 7 | 7 | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | No | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |

| Bridge Culvert Barrel | | | | |
|---|------|----------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1785, Type: SP) | | | | |
| Coating | | 3 | 3 | Perforations up to 80mm diam in rings 3,4,8 & 9 along roof - photo. Some corrosion on sidewalls rings 3 and 4. R9 are worst; R3-4,8 roof perforations minor. |
| Corrosion By Soil (Y/N) | Yes | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | X | X | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 8 | 8 | Cattlepass doubles as a watercourse. |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 5 | 3 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | S | | |
| End Treatment (Concrete, Steel, Others, None) | NONE | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | X | X | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | 0 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : NATURAL) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 7 | 7 | |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | 7 | 7 | |
| Roadway Surface | | 7 | 7 | |
| (Type : ACP) | | | | |
| Icing (Y/N) | No | | | |
| Traffic Safety Features | | X | X | |
| Type | NONE | | | |

| Structure Usage | | | | |
|--|-----|----------|----------|--------------------------|
| | | Last | Now | Explanation of Condition |
| Lighting | | X | X | |
| Barrel Leakage (Y/N) | No | | | |
| Drainage | | 7 | 7 | |
| Structure In Use (Y/N) | Yes | | | |
| Grade Separation 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) (%) | 55.6/33.3 | Sufficiency Rating (Last/Now) (%) | 70.0/60.2 | Est. Repl. Yr | 2024 | Maint. Req. (Y/N) | No |
| Special Comments for Next Inspection | Cattlepass doubles as watercourse. No action for roof at this time. | | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | | Estimated Total | 0 |
| Proposed Long-Term Strategy | | | | | | | |
| On 3-Year Program (Y/N) | N | | | | | | |
| Proposed Action | 2006.10.25 Check site in 2 years for continued usage. | | | | | | |
| Previous Inspector's Name | Bryan Wai | | Previous Assistant's Name | | | | |
| Next Inspection Date | 11-Aug-2014 | | Previous Inspection Date | 25-Mar-2008 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |