

| Bridge Culvert Inspection | | | | |
|---------------------------|------------------------------|--|---------------------|---------------|
| Bridge File Number | 79733 -1 Bridge Culvert | | Form Type | CUL1 |
| Year Built | 1983 | | Lot No. | 4 |
| Bridge or Town Name | LONGVIEW | | Inspector Name | Garry Roberts |
| Located Over | TRAIL-ANIMAL, OVER SP | | Inspector Class | BR CLS A |
| Located On | 541:02 C1 20.671 | | Assistant Name | |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 11-Mar-2013 |
| Legal Land Location | NE SEC 25 TWP 17 RGE 4 W5M | | Data Entry By | Lauren Korte |
| Longitude, Latitude | -114:25:09, 50:27:59 | | Data Entry Date | 07-Apr-2013 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | Ash Morjaria |
| Contract Main. Area | CMA27 | | Review Date | 21-Mar-2013 |
| Clear Roadway/Skew | 11.8 / | | Dept. Reviewer Name | Tim Davies |
| AADT/Year | 510 / 2011 (A) | | Dept. Review Date | 08-Apr-2013 |
| Road Classification | RCU-211-110 | | Follow-Up By | |
| Detour Length (km) | 20 | | | |

| Bridge Culvert Information | | | | | | | | |
|----------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | | 1 | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | - | 2400 | MP | 27 | 125X26 | 2.8 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

| Posting Information | | | | | | | | | | | | |
|--------------------------------------|------|---------------|---------------|--|------------------|----|------|----|---------------|--|------------------|----|
| Required Vert. Clearance Posting (m) | | | | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | | | No | | | | | | | | | |
| Posted: | Lane | NB | On Bridge (m) | | In Advance (Y/N) | No | Lane | SB | On Bridge (m) | | In Advance (Y/N) | No |
| Remarks | | Not required. | | | | | | | | | | |

| Utilities (Located at) | | | | |
|------------------------|------------------------|--|---------------|-----------------|
| Utility Attachments | | | | |
| Telephone | West ROW. | | Gas | West ditch 60m. |
| Power | East ROW. | | Municipal | |
| Others | Fibre optics West ROW. | | Problem (Y/N) | No |
| Remarks | | | | |

| Approach Road / Embankment | | | | |
|--|--------|----------|----------|--|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 6 | 6 | On long curve. Farm entrance 100 South. Superelevated. |
| Vertical Alignment | | 8 | 8 | |
| Roadway Width (m) | 11.800 | | | |
| Embankment | | 5 | 5 | At East 3:1 at West. 0.8 West 1.7 @ East- HOC. |
| Sideslope (___:1) | 1.5 | | | |
| (Height of Cover(m) : 1.3) | | | | |
| Guardrail (Y/N) | Yes | | | |
| Approach Road / Embankment General Rating | | 6 | 6 | |

| Upstream End | | | | |
|---|--|------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | W | | West. |
| End Treatment (Concrete, Steel, Others, None) | | NONE | | |
| Headwall | | X | X | |
| Collar | | X | X | |

| Upstream End | | | | |
|---|-------------|----------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | X | X | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 300 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| 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): 2400, Type: MP) | | | | |
| Barrel Last Accessible Date | 11-Mar-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 7 | 7 | Estimate. |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | 15 | | | |
| Percent Sag | 0 | | | |
| Sidewall | | 8 | 8 | |
| Measured Span (mm) | 2415 | | | |
| Measured At Ring No. | 1 | | | |
| Deflection (mm) | 15 | | | |
| Percent Deflection | 0 | | | |
| Floor | | N | N | 300mm dirt floor. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 51 | | | |
| Longitudinal Seams | | X | X | |
| Total No. of Cracked Rings | | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | | | | |
| Longitudinal Stagger (Y/N) | | | | |
| Coating | | 7 | 7 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |

| Bridge Culvert Barrel | | | | |
|---|------|----------|----------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2400, Type: MP) | | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | X | X | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 7 | 7 | Ditches drain into pipe. Pipe is lowest point in immediate area. |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 7 | 7 | |

| Downstream End | | | | | |
|---|-------|----------|----------|----------------------------|--|
| Culvert Component | | Last | Now | Explanation of Condition | |
| Direction | | E | | East. | |
| 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 | BELOW | | | | |
| Above/Below (mm) | 400 | | | | |
| Scour Protection | | 5 | 5 | Slumping into pipe- minor. | |
| (Type : NATURAL) | | | | | |
| (Avg. Rock Size(mm) :) | | | | | |
| Scour/Erosion | | 5 | 5 | | |
| Beavers (Y/N) | No | | | | |
| Downstream End General Rating | | 5 | 5 | | |

| Structure Usage | | | | |
|-------------------------|------|------|-----|--|
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | X | X | (Collects water, 800mm deep @ this inspection-Sept.12/06). |
| Roadway Surface | | 5 | 5 | |
| (Type : SOIL) | | | | |
| Icing (Y/N) | No | | | |
| Traffic Safety Features | | X | X | |
| Type | NONE | | | |
| Lighting | | X | X | |

| Structure Usage | | | | |
|--|----|----------|----------|--------------------------|
| | | Last | Now | Explanation of Condition |
| Barrel Leakage (Y/N) | No | | | |
| Drainage | | 5 | 5 | |
| Structure In Use (Y/N) | No | | | |
| Grade Separation General Rating | | 5 | 5 | |

| 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) (%) | 77.8/77.8 | Sufficiency Rating (Last/Now) (%) | 72.3/72.4 | Est. Repl. Yr | 2030 | 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 | Garry Roberts | | Previous Assistant's Name | | | | |
| Next Inspection Date | 11-Jun-2016 | | Previous Inspection Date | 06-Oct-2009 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |