

| Bridge Culvert Inspection | | | | |
|---------------------------|----------------------------------|--|---------------------|---------------|
| Bridge File Number | 72627 -1 Bridge Culvert | | Form Type | CUL1 |
| Year Built | 1986 | | Lot No. | 4 |
| Bridge or Town Name | MAYCROFT | | Inspector Name | Garry Roberts |
| Located Over | BLACK CK, 2.12.48.9, WATERCRS-ST | | Inspector Class | BR CLS A |
| Located On | 22:08 C1 14.920 | | Assistant Name | |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 16-Jun-2012 |
| Legal Land Location | NE SEC 24 TWP 11 RGE 2 W5M | | Data Entry By | Erin Roberts |
| Longitude, Latitude | -114:08:30, 49:55:41 | | Data Entry Date | 17-Jul-2012 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | Joel Wozney |
| Contract Main. Area | CMA26 | | Review Date | 27-Jun-2012 |
| Clear Roadway/Skew | 11.7 / 25 deg. (RHF) | | Dept. Reviewer Name | Tim Davies |
| AADT/Year | 2,210 / 2011 (A) | | Dept. Review Date | 17-Jul-2012 |
| Road Classification | RAU-211.8-110 | | Follow-Up By | |
| Detour Length (km) | 18 | | | |

| 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 | 44 | 125X26 | 2.8 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

| Utilities (Located at) | | | | |
|------------------------|--------------------------|--|---------------|----|
| Utility Attachments | | | | |
| Telephone | | | Gas | |
| Power | | | Municipal | |
| Others | Fibre optics @ East r/w. | | Problem (Y/N) | No |
| Remarks | | | | |

| Approach Road / Embankment | | | | |
|--|--------|----------|----------|-----------------------------------|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 6 | 6 | Curve to South. |
| Vertical Alignment | | 7 | 7 | |
| Roadway Width (m) | 11.700 | | | |
| Embankment | | 5 | 5 | 2:1 @ pipe @ East, 4:1 @ roadway. |
| Sideslope (_ :1) | 2.0 | | | |
| (Height of Cover(m) : 3) | | | | |
| Guardrail (Y/N) | No | | | |
| 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) | CONCRETE | | | |
| Headwall | | X | X | |
| Collar | | 8 | 8 | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | 7 | 7 | |

| Upstream End | | | | |
|---|-------------|----------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 250 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) | 100 | | | |
| Scour Protection | | 8 | 8 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 8 | 8 | |
| 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 | 16-Jun-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 8 | 8 | |
| Measured Rise (mm) | 2395 | | | |
| Measured At Ring No. | 4 | | | |
| Sag (mm) | 5 | | | |
| Percent Sag | | | | |
| Sidewall | | 5 | 6 | Inward. |
| Measured Span (mm) | 2350 | | | |
| Measured At Ring No. | 2 | | | |
| Deflection (mm) | 50 | | | |
| Percent Deflection | 2 | | | |
| Floor | | 7 | N | 75% silt covered. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | Yes | | | |
| Circumferential Seams | | 5 | 5 | At D/S |
| Separation (mm) | 250 | | | |
| 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) | | | | |
| Longitudinal Stagger (Y/N) | | | | |
| Coating | | 5 | 5 | Superficial corrosion @ floor & bottom haunches @ U/S 1/3. |
| Corrosion By Soil (Y/N) | No | | | |
| 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): , Rise (mm): 2400, Type: MP) | | | | |
| Fish Passage Adequacy | | 7 | 7 | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 7 | 7 | |
| Icing (Y/N) | No | | | Approx 200-400mm silt in 75% of barrel. |
| Silting (Y/N) | Yes | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 8 | 6 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | E | | East end. |
| 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) | 100 | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | | | | |
| Scour Protection | | 7 | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | 7 | 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 | | 6 | 6 | |
| HWM (m below Top of Culvert) | | | | No visible HWM |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | Degrading slightly on D/S. |
| 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) (%) | 88.9/66.7 | Sufficiency Rating (Last/Now) (%) | 80.5/68.5 | Est. Repl. Yr | 2028 | 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 | 16-Mar-2014 | | Previous Inspection Date | 07-Oct-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |