

| Bridge Culvert Inspection | | | |
|---------------------------|---|---------------------|--------------------|
| Bridge File Number | 81510 -2 Bridge Culvert | Form Type | CULE |
| Year Built | 2010 | Lot No. | 4 |
| Bridge or Town Name | | Inspector Name | Wade Nanninga |
| Located Over | TRIBUTARY TO WANDERING RIVER, 8.11.55.3.4, WATERCRS-ST | Inspector Class | BR CLS B |
| Located On | 63:04 C1 30.492 | Assistant Name | |
| Water Body Cl./Year | | Assistant Class | |
| Navigabil. Cl./Year | | Inspection Date | 09-Aug-2011 |
| Legal Land Location | SW SEC 31 TWP 75 RGE 15 W4M | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -112:19:46, 55:32:23 | Data Entry Date | 06-Sep-2011 |
| Road Authority | Alberta Transportation (AIT) | Reviewer Name | Arnold Assenheimer |
| Contract Main. Area | CMA07 | Review Date | 15-Aug-2011 |
| Clear Roadway/Skew | 26.4 / -16 deg. (LHF) | Dept. Reviewer Name | Brent Herrick |
| AADT/Year | 3,800 / 2010 (A) | Dept. Review Date | 12-Sep-2011 |
| Road Classification | RFD-412.4-130 | 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 | - | 1829 | SSP | 53 | | 12.7 | ROUND |
| 1 | D/S | - | 2000 | MP | 63 | 125X26 | 2.8 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | Median ditch tied into WSP. | | | | | | | |

Utilities (Located at)

| | | | |
|---------------------|-------|---------------|----|
| Utility Attachments | | | |
| Telephone | W row | Gas | |
| Power | | Municipal | |
| Others | | Problem (Y/N) | No |
| Remarks | | | |

Approach Road / Embankment

| | Last | Now | Explanation of Condition |
|--|--------|----------|--------------------------|
| Horizontal Alignment | | 8 | Near km 85 |
| Vertical Alignment | | 8 | |
| Roadway Width (m) | 26.200 | | |
| Embankment | | 8 | |
| Sideslope (__:1) | 5.0 | | |
| (Height of Cover(m) : 3.5) | | | |
| Guardrail (Y/N) | No | | |
| Approach Road / Embankment General Rating | | 8 | |

Upstream End

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

| Upstream End | | | | |
|------------------------------------|-------|------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Cutoff Wall | | | X | |
| Bevel End | | | 9 | |
| Heaving (mm) | | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 1000 | | | |
| Scour Protection | | | 8 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | | 8 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | | 8 | |

Bridge Culvert Barrel

| Culvert Component | | Last | Now | Explanation of Condition |
|---|-------------|------|-----|--------------------------|
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP) | | | | |
| Barrel Last Accessible Date | 09-Aug-2011 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | | 9 | |
| Measured Rise (mm) | 1820 | | | cl |
| Measured At Ring No. | | | | |
| Sag (mm) | 9 | | | |
| Percent Sag | | | | |
| Sidewall | | | 9 | |
| Measured Span (mm) | 1830 | | | cl |
| Measured At Ring No. | | | | |
| Deflection (mm) | 1 | | | |
| Percent Deflection | | | | |
| Floor | | | 9 | |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | | 9 | |
| Separation (mm) | | | | |
| Longitudinal Seams | | | 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 | | | 9 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | ZERO | | | |

| Bridge Culvert Barrel | | | | |
|--|----|------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP) | | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | | 8 | |
| Baffle | | | X | |
| (Type :) | | | | |
| Waterway Adequacy | | | 8 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | | 9 | |

| Bridge Culvert Barrel | | | | |
|--|-------------|------|-----|----------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 2000, Type: MP) | | | | |
| Barrel Last Accessible Date | 09-Aug-2011 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | | 9 | |
| Measured Rise (mm) | 1995 | | | cl |
| Measured At Ring No. | | | | |
| Sag (mm) | 5 | | | |
| Percent Sag | | | | |
| Sidewall | | | 9 | |
| Measured Span (mm) | 2008 | | | cl |
| Measured At Ring No. | | | | |
| Deflection (mm) | 8 | | | |
| Percent Deflection | | | | |
| Floor | | | 9 | |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | | 9 | |
| Separation (mm) | | | | |
| Longitudinal Seams | | | 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 | | | 9 | Polymer coating over galv. |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | | | | |

| Bridge Culvert Barrel | | | | |
|--|-------|------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 2000, Type: MP) | | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | | 8 | |
| Baffle | | | X | |
| (Type :) | | | | |
| Waterway Adequacy | | | 8 | |
| Icing (Y/N) | | | | |
| Silting (Y/N) | | | | |
| Drift (Y/N) | | | | |
| Barrel Extension General Rating | | | 9 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | E | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | | X | |
| Collar | | | X | |
| Wingwalls | | | X | |
| (Shape :) | | | | |
| Cutoff Wall | | | X | |
| Bevel End | | | 9 | |
| Heaving (mm) | | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 500 | | | |
| Scour Protection | | | 9 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | | 9 | |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | | 9 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | | 7 | |
| Bank Stability | | | 7 | |
| HWM (m below Top of Culvert) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | | 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) (%) | /100.0 | Sufficiency Rating (Last/Now) (%) | /94.0 | Est. Repl. Yr | 2060 | 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 | | | Previous Assistant's Name | | | | |
| Next Inspection Date | 09-May-2013 | | Previous Inspection Date | | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |