

| Bridge Culvert Inspection | | | |
|---------------------------|--|---------------------|--------------------|
| Bridge File Number | 81834 -1 Bridge Culvert | Form Type | CUL1 |
| Year Built | 1996 | Lot No. | 2 |
| Bridge or Town Name | CONKLIN | Inspector Name | Wade Nanninga |
| Located Over | SUNDAY CREEK, 8.11.39.4.11.3, WATERCRS-ST | Inspector Class | BR CLS B |
| Located On | 881:21 C1 37.330 | Assistant Name | |
| Water Body Cl./Year | | Assistant Class | |
| Navigabil. Cl./Year | | Inspection Date | 09-Sep-2010 |
| Legal Land Location | NW SEC 6 TWP 76 RGE 7 W4M | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -111:05:24, 55:33:40 | Data Entry Date | 22-Sep-2010 |
| Road Authority | Alberta Transportation (AIT) | Reviewer Name | Arnold Assenheimer |
| Contract Main. Area | CMA07 | Review Date | 16-Sep-2010 |
| Clear Roadway/Skew | 10 / -6 deg. (LHF) | Dept. Reviewer Name | Brent Herrick |
| AADT/Year | 960 / 2009 (A) | Dept. Review Date | 05-Oct-2010 |
| Road Classification | RCU-209-110 | Follow-Up By | |
| Detour Length (km) | 250 | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | - | 4140 | SP | 67.1 | 152X51 | 3.0 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | |
|---------------------|--|---------------|----|
| Utility Attachments | | | |
| Telephone | | Gas | |
| Power | | Municipal | |
| Others | Bell fibre optic East r/w. | Problem (Y/N) | No |
| Remarks | File tag installed on top of West concrete headwall. | | |

Approach Road / Embankment

| | | Last | Now | Explanation of Condition |
|--|--------|----------|----------|---|
| Horizontal Alignment | | 7 | 7 | Curve to South. |
| Vertical Alignment | | 7 | 7 | Crest curve to North. |
| Roadway Width (m) | 10.000 | | | |
| Embankment | | 3 | 3 | Erosion gullies up to 1.2m deep, both sides - photos. |
| Sideslope (:1) | 4.0 | | | Silt fence undermined & in disrepair. |
| (Height of Cover(m) : 5.5) | | | | |
| Guardrail (Y/N) | No | | | |
| Approach Road / Embankment General Rating | | 3 | 3 | |

Upstream End

| Culvert Component | | Last | Now | Explanation of Condition |
|---|----------|------|-----|---------------------------------------|
| Direction | | W | | |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | | |
| Headwall | | 7 | 7 | Few transverse medium cracks in both. |
| Collar | | 7 | 7 | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |

| Upstream End | | | | |
|------------------------------------|-------|----------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Cutoff Wall | | N | N | |
| Bevel End | | 8 | 8 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 1000 | | | |
| Scour Protection | | 4 | 4 | Erosion from sideslopes washed fill from under rock @ SW corner. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 4 | 4 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 4 | 4 | |

Bridge Culvert Barrel

| Culvert Component | | Last | Now | Explanation of Condition |
|--|-----|------|-----|--|
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4140, Type: SP) | | | | |
| Barrel Last Accessible Date | | | | Viewed from ends. Shape & condition look ok. |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 6 | 5 | Roof appears to be flattening slightly. |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | | | | |
| Percent Sag | | | | |
| Sidewall | | 7 | 7 | |
| Measured Span (mm) | | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | | | | |
| Percent Deflection | | | | |
| Floor | | N | N | |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | | | | |
| Circumferential Seams | | N | N | |
| Separation (mm) | | | | |
| Longitudinal Seams | | N | N | |
| Total No. of Cracked Rings | | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | 2N |
| Proper Lap (Y/N) | Yes | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 7 | 7 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | | | | |

| Bridge Culvert Barrel | | | | |
|---|-----------|----------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4140, Type: SP) | | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 7 | 7 | |
| Baffle | | N | N | |
| (Type :) | | | | |
| Waterway Adequacy | | 7 | 7 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | N | 5 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | E | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 8 | 8 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 1000 | | | |
| Scour Protection | | 5 | 5 | Up to 0.5m of settlement along sides of bevel. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 5 | 5 | |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 8 | 5 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | 8 | 8 | |
| HWM (m below Top of Culvert) | 2.0 | | | Drift caught on inlet |
| Drift (Y/N) | Yes | | | |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | |
| 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 | 2010 | Repair embankment erosion on both sides. | | | | | |
| OTHER ACTION | 2010 | Repair silt fencing & re-seed. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 55.6/55.6 | Sufficiency Rating (Last/Now) (%) | 49.5/46.1 | Est. Repl. Yr | 2043 | Maint. Req. (Y/N) | Yes |
| 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 | Dave Lam | | Previous Assistant's Name | | | | |
| Next Inspection Date | 09-Dec-2013 | | Previous Inspection Date | 13-Jun-2007 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |