

| Bridge Culvert Inspection | | | | |
|---------------------------|------------------------------|--|---------------------|-----------------|
| Bridge File Number | 76462 -1 Bridge Culvert | | Form Type | CUL1 |
| Year Built | 1966 | | Lot No. | 2 |
| Bridge or Town Name | BLOOMSBURY | | Inspector Name | Melanie Johnson |
| Located Over | TRAIL-ANIMAL, OVER SP | | Inspector Class | BR CLS B |
| Located On | 33:08 C1 13.013 | | Assistant Name | |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 24-Aug-2011 |
| Legal Land Location | SW SEC 20 TWP 60 RGE 4 W5M | | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -114:34:18, 54:11:59 | | Data Entry Date | 13-Sep-2011 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | Eric Carcoux |
| Contract Main. Area | CMA10 | | Review Date | 07-Sep-2011 |
| Clear Roadway/Skew | 10.4 / | | Dept. Reviewer Name | Brent Herrick |
| AADT/Year | 1,460 / 2010 (A) | | Dept. Review Date | 15-Sep-2011 |
| Road Classification | RAU-211.8-110 | | Follow-Up By | |
| Detour Length (km) | 14 | | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|------------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | - | 1829 | MP | 21.9 | 68X13 | 3.5 | ROUND |
| Special Features | CONC FLOOR | | | | | | | |
| 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 | Not required | | | | | | | | | | |

Utilities (Located at)

| | | | | | | | | | | | |
|---------------------|--------------------|--|--|--|--|---------------|----|--|--|--|--|
| Utility Attachments | | | | | | | | | | | |
| Telephone | | | | | | Gas | | | | | |
| Power | 4 wires North r/w. | | | | | Municipal | | | | | |
| Others | | | | | | Problem (Y/N) | No | | | | |
| Remarks | | | | | | | | | | | |

Approach Road / Embankment

| | | Last | Now | Explanation of Condition |
|--|--------|----------|----------|-----------------------------------|
| Horizontal Alignment | | 6 | 6 | On a curve, no passing permitted. |
| Vertical Alignment | | 8 | 8 | |
| Roadway Width (m) | 10.300 | | | |
| Embankment | | 8 | 8 | 3 posts broken on North side. |
| Sideslope (__:1) | 3.0 | | | |
| (Height of Cover(m) : 0.8) | | | | |
| 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 | | | |

| Upstream End | | | | |
|------------------------------------|-------|----------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| 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) | 150 | | | |
| Scour Protection | | X | X | |
| (Type :) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | X | X | |
| 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): 1829, Type: MP) | | | | |
| Barrel Last Accessible Date | 23-Aug-2011 | | | |
| Special Features | | | | |
| Special Feature | | | N | |
| (Type : CONC FLOOR) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 6 | 6 | Slight mower damage to crown on both ends. Can't measure rise because of dirt/concrete floor. |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | | | | |
| Sidewall | | 6 | 6 | Inward |
| Measured Span (mm) | 1818 | | | |
| Measured At Ring No. | 2 | | | |
| Deflection (mm) | 11 | | | |
| Percent Deflection | 0 | | | |
| Floor | | N | N | Dirt on concrete floor. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 65 | | | |

| Bridge Culvert Barrel | | | | |
|--|-----|----------|----------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: MP) | | | | |
| Longitudinal Seams | | 7 | 7 | Riveted seams. |
| 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) | Yes | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 6 | 6 | Few small rust spots on outside. Visible on top of north end. |
| Corrosion By Soil (Y/N) | Yes | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | NEG | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | X | X | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | X | X | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 6 | 6 | |

| 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 | BELOW | | | |
| Above/Below (mm) | 150 | | | |
| Scour Protection | | X | X | |
| (Type :) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | X | X | |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 7 | 7 | |

| Structure Usage | | | | |
|--|-----|----------|----------|---|
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | 8 | 8 | 50% covered with dirt. (Minor ponding - 50mm.-11-Mar-2008) |
| Roadway Surface | | 6 | 6 | |
| (Type :) | | | | |
| Icing (Y/N) | No | | | |
| Traffic Safety Features | | X | X | |
| Type | | | | |
| Lighting | | X | X | |
| Barrel Leakage (Y/N) | No | | | |
| Drainage | | 5 | 5 | |
| Structure In Use (Y/N) | Yes | | | |
| 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 | 2011 | Replace broken GR posts. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 66.7/66.7 | Sufficiency Rating (Last/Now) (%) | 74.9/74.5 | Est. Repl. Yr | 2029 | 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 | Melanie Johnson | | Previous Assistant's Name | | | | |
| Next Inspection Date | 24-May-2013 | | Previous Inspection Date | 05-Nov-2009 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |