| Bridge Culvert Inspection | | | | | | | | | | | | | | |
|--|---|-------------------------|--------------------------|-------------|-------|----------------------|------------------------------------|----------------------------|--|-------------|-------|--|--|--|
| Bridge File Num | ber | 76015 -1 Bridge Culvert | | | | | | | CUI 1 | | | | | |
| Year Built | 1964 | | | | | Form Type Lot No. | | | | | | | | |
| Bridge or Town Name BONANZA | | | | | | | | | | | | | | |
| Located Over | rianio | | ORDER TRIBUTARY TO POUCE | | | | Inspector Class | | | | | | | |
| 2004104 0 701 | | COUPE I | RIVER, 8.10.9 | 97.1.2, WA | TERC | RS- | | int Name | Corr. Profile PI./Slab Shape Thickness 68X13 2.8 ARCH No ondition t North of Pipe. | | | | | |
| Located On | | ST 691:02 C | 1 10 724 | | | | Assistant Class | | | | | | | |
| Located On 681:02 C1 10.734 Water Body Cl./Year | | | | | | | Inspection Date | | 06-Mar-2012 | 06-Mar-2012 | | | | |
| Navigabil. Cl./Ye | | | | | | | | ntry By | Theresa Lacu | | | | | |
| | | NIW SEC | 22 TMD 90 E | PCE 11 \N/6 | 21/1 | | | | | | | | | |
| Legal Land Location NW SEC 32 TWP 80 RGE 11 WG | | | | | JIVI | | | Reviewer Name Eric Carcoux | | | | | | |
| Longitude, Latitude -119:41:49, 55:58:45 | | | | | | | Review Date 22-Mar-2012 | | | | | | | |
| Road Authority Alberta Transportation (AIT) Contract Main. Area CMA05 | | | | | | Dept. F | Reviewer Nan | David Morrison | | | | | | |
| Clear Roadway/ | | 9.1 / | | | | Dept. Review Da | | | 30-Oct-2012 | | | | | |
| AADT/Year | ORCW | 320 / 201 | 1 (A) | | | | Follow-Up By | | | | | | | |
| Road Classifica | tion | RCU-209 | | | | | | | | | | | | |
| Detour Length (km) 6 | | | U3-11U | | | | | | | | | | | |
| Bridge Culvert | | | | | | | | | | | | | | |
| Number of Culv | | 1 | | | | | | | | | | | | |
| Pipe # | Barrel | S | Span | Rise (or E | Dia.) | Туре | Length | | Corr. Profile | | Shape | | | |
| 1 | MAIN | 1 | 828 | 1117 | | FP | 44.6 | | 68X13 | 2.8 | ARCH | | | |
| Special Feature | s | | | | | | | | | | | | | |
| Special Feature | s Comr | ment | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | Uti | ilities (L | ocated | at) | | | | | | |
| Utility Attachme | nts | | | | | | _ | | | | | | | |
| Telephone | | | | | | | Gas | | | | | | | |
| Power | 3 wire | 3 wire East r/w | | | | | Munici | | | | | | | |
| Others Remarks | | | | | | | Problem (Y/N) No | | | | | | | |
| Remarks | | | | Δn | nroad | ch Road | l / Emb | ankment | | | | | | |
| | | | | | | | 1 | ation of Cor | dition | | | | | |
| Horizontal Align | Horizontal Alignment | | | | 7 | 7 | Field entrance just North of Pipe. | | | | | | | |
| Vertical Alignment | | | | 8 | 8 | | | | | | | | | |
| Roadway Width (m) 9.100 | | | 9.100 | | | | | | | | | | | |
| Embankment | | | | | 7 | 7 | | | | | | | | |
| Sideslope (| :1) | | 3.0 | | | | | | | | | | | |
| (Height of Cov | ver(m) : | 1.5) | | | | | | | | | | | | |
| Guardrail (Y/N) | | | No | | | | | | | | | | | |
| Approach Road | d / Emb | bankment | General Rat | ing | 7 | 7 | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | |
| Culvert Compo | Culvert Component Last Now Explanation of Condition | | | | | | | | | | | | | |
| Direction | | | | | E | | | | | | | | | |
| End Treatment (Others, None) | (Concre | ete, Steel, | STEEL | | | | | | | | | | | |
| Headwall | | | | | Χ | Х | | | | | | | | |
| Collar | | | | Χ | Х | | | | | | | | | |
| Wingwalls | | | | Х | Х | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | | |
| Cutoff Wall | | | Х | Х | | | | | | | | | | |

76015 -1 Bridge Culvert

| | | | Upstre | am End | | | | |
|--|------------------|----------|----------|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| Bevel End | | N | 4 | (Bevel is dented in 300mm on both sides. End iron is damaged.) | | | | |
| Heaving (mm) | 60 | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | |
| Above/Below (mm) | 300 | | | | | | | |
| Scour Protection | , | 4 | 4 | Minor scour behind bevel. | | | | |
| (Type : NONE) | | | | | | | | |
| (Avg. Rock Size(mm):) | | | | | | | | |
| Scour/Erosion | | 4 | 4 | Minor scour behind bevel. | | | | |
| Coodi/E103ioi1 | | | | Willion Scoul Berlind Bevel. | | | | |
| Beavers (Y/N) | No | | | | | | | |
| Unatroom Fuel Company Dating | | | | | | | | |
| Upstream End General Rating | | 4 | 4 | | | | | |
| | | | | lvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, | Span (mm | n): 1828 | s, Rise (mm): 1117, Type: FP) | | | | |
| Barrel Last Accessible Date | 06-Mar-2012 | | | | | | | |
| Special Features | | | | | | | | |
| Special Features | | | | | | | | |
| Special Feature | | | | | | | | |
| (Type:) | | | I | | | | | |
| Special Feature | | | | | | | | |
| (Type:) | | | | | | | | |
| Roof | 1 | 6 | 4 | C/L of road Estimated due to ice. | | | | |
| Measured Rise (mm) | 930 | | | Limited due to ice. | | | | |
| Measured At Ring No. | | | | | | | | |
| Sag (mm) | 87 | | | | | | | |
| Percent Sag | 8 | | | | | | | |
| Sidewall | | 6 | 7 | C/L of road. | | | | |
| Measured Span (mm) | 1903 | | | 11m from u/s end. | | | | |
| Measured At Ring No. | | | | | | | | |
| Deflection (mm) | 75 | | | | | | | |
| Percent Deflection | 4 | | | | | | | |
| Floor | | 6 | 6 | Bulging 50-100mm in some areas due to construction damage. | | | | |
| Bulge (mm) | 0 | | | | | | | |
| Measured At Ring No. | | | | | | | | |
| Abrasion (Y/N) | No | | | | | | | |
| Circumferential Seams | | 6 | 6 | | | | | |
| Separation (mm) | 60 | U | U | | | | | |
| Longitudinal Seams | | 6 | 6 | | | | | |
| | | 6 | U | | | | | |
| Total No. of Cracked Rings | | | | | | | | |
| Total No. of Rings with Two Cracked Seams | | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | | | | | |
| Proper Lap (Y/N) | Yes | | | | | | | |
| Longitudinal Stagger (Y/N) | Yes | | | | | | | |
| Coating | | 3 | 4 | Deep pitting rust on floor & sidewalls. | | | | |
| Corrosion By Soil (Y/N) | | | | | | | | |
| Corrosion By Water (Y/N) | Yes | | | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | |
| | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | |

| Bridge Culvert Barrel | | | | | | | | | |
|---|----------------------|--------------|---------|---|--|--|--|--|--|
| Culvert Component | | | Now | • | | | | | |
| (Pipe # : 1, Primary Span, Locat | tion Code: MAIN, Spa | n (mm): 1828 | | 8, Rise (mm): 1117, Type: FP) | | | | | |
| Fish Passage Adequacy | | 4 | 4 | Culvert is below streambed 1000mm | | | | | |
| Baffle | | Х | Х | on d/s end. | | | | | |
| (Type:) | | | | | | | | | |
| Waterway Adequacy | | | 4 | Culvert is lower than streambed 1000mm which reduces waterway | | | | | |
| Icing (Y/N) | No | | | adequacy. | | | | | |
| Silting (Y/N) | No | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel General Rating | | | 4 | | | | | | |
| | | D | ownstr | eam End | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| Direction | | W | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | |
| Headwall | | Х | Х | | | | | | |
| Collar | | | X | | | | | | |
| Wingwalls | | Х | X | | | | | | |
| (Shape:) | | | | | | | | | |
| Cutoff Wall | | Х | X | | | | | | |
| Bevel End | | | 4 | Bevel pushed in 300mm on N. Side. | | | | | |
| Heaving (mm) | 60 | | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | | |
| Above/Below (mm) | 1000 | | | | | | | | |
| Scour Protection | | N | 4 | Scour 3mWx9mLx1mD | | | | | |
| (Type : NONE) | | | | | | | | | |
| (Avg. Rock Size(mm) :) | | | | | | | | | |
| Scour/Erosion | | N | 4 | Scour 3mWx9mLx1mD | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Downstream End General Ratin | ng | 4 | 4 | | | | | | |
| | | s | tructur | e Usage | | | | | |
| | | | Now | Explanation of Condition | | | | | |
| Channel (U/S and D/S) | | | | | | | | | |
| Alignment | | 6 | 6 | | | | | | |
| Bank Stability | | 8 | 8 | | | | | | |
| HWM (m below Top of Culvert) | | | | HWM NOT VISIBLE | | | | | |
| Drift (Y/N) No | | | | | | | | | |
| Channel Bottom AGGRADING Degrading/Aggrading | | | | NO DEFINED CHANNEL U/S. The ditch is alot higher than the invert. | | | | | |
| Beavers (Y/N) No | | | | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | | | |
| Channel General Rating | | | 6 | | | | | | |

| | | | Mainten | ance Recommer | dations | | | | | |
|--|-------------|----------|--------------------|---------------|------------------------|---------------|----------|----------------|-----------|-------|
| Inspector Recommendations | Year | Inspecto | or Comments | | Department Com | nments | | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | · | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | 3 | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTOFF | | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (Last/N (%) | ow) 55.6/ | 44.4 | Sufficiency Rating | g (Last/Now) | 45.3/40.3 | Est. Repl. Yr | 2019 | Maint. Re | qd. (Y/N) | No |
| Special Comments for Next Inspection | | | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | | | Date | | E | Estimated Tota | 1 0 | |
| Proposed Long-Term Strategy | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | |
| Proposed Action | | | | | | | | | | |
| Previous Inspector's Name | Laurie McCa | rron | | Previous | Assistant's Name | Russel Vande | erschaaf | | | |
| Next Inspection Date | 06-Jun-2015 | | | Previous | Inspection Date | 19-Nov-2008 | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | | | |
| Comment | | | | | | | | | | |