| | | | | | D.:-!- | 0 | A. () | | | | | | |
|---|-----------|---|--------------------------------|-----------------|---------------------|-------------------|--------------------------------|---------------|--------------|--------------------------------|-----------------------|---------|--|
| D : 1 | | 70400 | 4 D : 1 O 1 | | Bridg | je Culve | ert Inspect | | | OLU M | | | |
| Bridge File Nu | mber | 70190 -1 Bridge Culvert | | | | | Form Type | | | CULM | | | |
| Year Built | | 1986 | · | | | | Lot No. | | | 1 | | | |
| Bridge or Town | n Name | HOBBE | | · A D \ / T O A | 44010 | A / A | Inspector Name | | Owen Salava | | | | |
| Located Over | | | RDER TRIBUT , 5.47.4.1.3.1. | | | | Inspector Class Assistant Name | | BR CLS A | | | | |
| Located On | | | C1 43.683 | | | | Assistant Class | | | | | | |
| Water Body Cl | l./Year | | | | Inspection Date | | | | | 07-Feb-2013 | | | |
| Navigabil. Cl./ | Year | | | | | | Data Entr | | | Marcia Chavez | | | |
| Legal Land Lo | cation | SE SEC | 2 4 TWP 45 RC | 3E 26 W4N | И | | Data Entr | | | 22-Feb-2013 | | | |
| Longitude, Latitude -113:42:52, 52:50:36 | | | | | | | Reviewer Name | | John O'Brien | | | | |
| Road Authority Alberta Transportation (Al | | | | n (AIT) | AIT) | | | ate | | 13-Feb-2013 | | | |
| Contract Main. Area CMA17 | | | | | Dept. Reviewer Name | | | | | | | | |
| Clear Roadwa | y/Skew | 9.4 / | | | | Dept. Review Date | | | 28-Mar-2013 | | | | |
| AADT/Year | | 600 / 20 |)11 (A) | | | | Follow-Up | | | | | | |
| Road Classific | ation | RCU-21 | 0-110 | | | | | - Silow-Op By | | | | | |
| Detour Length | | 6 | | | | | | | | | | | |
| Bridge Culver | | | | | | | | | | | | | |
| Number of Cul | T | | 2 | I | | I_ | 1. | | | l | T | 1 | |
| Pipe # | Barrel | | Span | Rise (or I | Dia.) | Type | Length | | | Corr. Profile | PI./Slab Thickness | Shape | |
| 1 | MAIN | | 2794 | 1626 | | RPE | 30.4 | | | 152X51 | 3.0 | ELLIPSE | |
| 2 | MAIN | | 2794 | 1626 | | RPE | 30.4 | | | 152X51 | 3.0 | ELLIPSE | |
| Special Featur | | | | | | | | | | | 1 | | |
| Special Featur | | ment | | | | | | | | | | | |
| • | | | | | | | | | | | | | |
| | | | | | Ut | ilities (L | Located at |) | | | | | |
| Utility Attachm | | | | | | | | | | | | | |
| Telephone | | ed in South ditch. | | | | | Gas | Ŭ. | | | | | |
| Power | | e OH 15m North of c/l. ric wire fence in South r/w. | | | | | Municipal | | NI- | | | | |
| Others | Electr | ic wire re | ence in South r | /W. | | | Problem (| (Y/IN) | No | | | | |
| Remarks | | | | ۸r | nroa | ch Pos | d / Embanl | kmont | | | | | |
| | | | | | Last | | Explanat | | Condi | tion | | | |
| Horizontal Alig | ınment | | | | 7 | 7 | Farm entrance 150m West. | | | | | | |
| Vertical Alignm | | | | | 7 | 7 | Crest curve 400m West. | | | | | | |
| Roadway Widt | | | 9.400 | | | | ACP transverse crack | | | & slight settlement over pipe. | | | |
| - | | | | | | | | | | | | | |
| Embankment | | | T | | 7 | 7 | | | | | | | |
| Sideslope (_ | | | 3.0 | | | | | | | | | | |
| (Height of Co | | : 3) | | | | | | | | | | | |
| Guardrail (Y/N |) | | No | | | | | | | | | | |
| Approach Ro | ad / Eml | oankmei | nt General Ra | ting | 7 | 7 | | | | | | | |
| | | | | | | Linctro | am End | | | | | | |
| Culvert Comp | onent | | | | aet | Now | Explanat | ion of | Condi | tion | | | |
| (Pipe # : 1, Sp | | e: Prima | rv Span) | | Luot | 11011 | LAPIGNA | | Jonai | | | | |
| Direction | <u></u> | | <i>y</i> = 2 4 / | | N | | Primary s | pan to | West | | | | |
| End Treatmen Others, None) | t (Concre | ete, Stee | I, STEEL | | | | | pan to | | | | | |
| Headwall | | | | | Х | X | | | | | | | |
| 0 " | | | | | Х | X | + | | | | | | |
| Collar | | | | | | | | | | | | | |
| Wingwalls | | | | | X | X | | | | | | | |

70190 -1 Bridge Culvert

| | | | Upstre | am End |
|--|----------------------|-------|---------|-------------------------------------|
| Culvert Component | | Last | | Explanation of Condition |
| (Pipe #: 1, Span Type: Primary | / Span) | | | |
| Cutoff Wall | | Х | Х | |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 200 | | | |
| Scour Protection | | N | N | Snow covered. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 250) | | | | |
| Scour/Erosion | | N | N | Snow covered. |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 7 | |
| | | Brid | | vert Barrel |
| Culvert Component | | Last | | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 2794 | , Rise (mm): 1626, Type: RPE) |
| Barrel Last Accessible Date | 07-Feb-2013 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 3 | 3 | Too much ice for rise; 1200 to ice. |
| Measured Rise (mm) | 1485 | | | Some roof flattening. |
| Measured At Ring No. | 5 | | | |
| Sag (mm) | 141 | | | (8.7%. 03Mar2010). |
| Percent Sag | 9 | | | |
| Sidewall | | 6 | 6 | |
| Measured Span (mm) | 2890 | | | |
| Measured At Ring No. | 5 | | | |
| Deflection (mm) | 96 | | | 3.4%. |
| Percent Deflection | 3 | | | |
| Floor | 1 | 6 | N | Ice covered. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | _ | |
| Circumferential Seams | I | 7 | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 7 | 7 | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | Yes | | | |
| Longitudinal Stagger (Y/N) | No | | | |
| Coating | | 5 | 5 | Wall stained. |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | Yes | | | |

| | | Brid | dge Cu | lvert Barrel |
|---|----------------------|-------|---------|--------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Locat | tion Code: MAIN, Spa | n (mm |): 2794 | , Rise (mm): 1626, Type: RPE) |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 6 | 6 | |
| Baffle | | Х | Х | |
| (Type:) | | | | |
| Waterway Adequacy | | 7 | 7 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 3 | 3 | |
| | | D | ownstr | eam End |
| Culvert Component | | | Now | Explanation of Condition |
| (Pipe # : 1, Span Type: Primary | / Span) | | | |
| Direction | ı | S | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | Х | X | |
| Collar | | Х | X | |
| Wingwalls | | X | X | |
| (Shape:) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | 200 | | _ | |
| Scour Protection | | N | N | Snow covered. |
| (Type:) | | | | |
| (Avg. Rock Size(mm):) | | T | | |
| Scour/Erosion | | N | N | Snow covered. |
| Beavers (Y/N) | No | | | |
| Downstream End General Ratin | ng | 7 | 7 | |
| | | | | am End |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Span Type: Second | ary Span) | | | I= |
| Direction End Treatment (Concrete, Steel, | STEEL | N | | East pipe. Pipes are 7m apart. |
| Others, None) Headwall | 0.222 | X | Х | |
| Collar | | X | X | |
| | | | | |
| Wingwalls (Shape:) | | X | X | |
| (Shape:) | | Х | Х | |
| Cutoff Wall | | Ι Λ | X | I . |

70190 -1 Bridge Culvert

| | | | Upstre | eam End |
|--|----------------------|---------|--------|---|
| Culvert Component | | Last | | |
| (Pipe # : 2, Span Type: Second | lary Span) | | | |
| Bevel End | | 7 | 7 | Fill lower than bevel edge. |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 300 | | | |
| Scour Protection | | N | N | Snow covered. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 250) | | | | |
| Scour/Erosion | | N | N | Snow covered. |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 7 | |
| | | Bri | dae Cı | ulvert Barrel |
| Culvert Component | | Last | Now | |
| · | cation Code: MAIN, S | Span (ı | | 794, Rise (mm): 1626, Type: RPE) |
| Barrel Last Accessible Date | 07-Feb-2013 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 3 | 3 | 1310 to ice. |
| Measured Rise (mm) | 1460 | | | |
| Measured At Ring No. | 6 | | | 1 |
| Sag (mm) | 166 | | | (10.29/, 03Mor2010) |
| Percent Sag | 10 | | | (10.2%. 03Mar2010). |
| Sidewall | - | 6 | 6 | |
| Measured Span (mm) | 2900 | | | |
| Measured At Ring No. | 6 | | | |
| Deflection (mm) | 106 | | | 2.00/ |
| Percent Deflection | 4 | | | 3.8% |
| Floor | | 6 | N | Ice |
| Bulge (mm) | 0 | | - 14 | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | 1 |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 7 | 7 | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel | | | | |
| Between Cracks (mm) | Voc | | | 1 |
| Proper Lap (Y/N) | Yes | | | 1 |
| Longitudinal Stagger (Y/N) | No | _ | T = | laren eta |
| Coating | | 5 | 5 | Wall stained. |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |

| | | Brid | dge Cu | lvert Barrel |
|---|----------------------|---------|---------|-------------------------------------|
| Culvert Component | | | | Explanation of Condition |
| (Pipe # : 2, Secondary Span, Lo | cation Code: MAIN, S | Span (r | nm): 27 | 794, Rise (mm): 1626, Type: RPE) |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 6 | 6 | |
| Baffle | | Х | Х | |
| (Type:) | | | | |
| Waterway Adequacy | | 7 | 7 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 3 | 3 | |
| | | | | |
| Culvert Component | | | | eam End Explanation of Condition |
| (Pipe # : 2, Span Type: Second | lary Snan) | Lasi | INOW | Explanation of Condition |
| Direction | lary Spari) | s | | |
| | CTEL | 5 | | |
| End Treatment (Concrete, Steel, Others, None) | SIEEL | | | |
| Headwall | | X | X | |
| Collar | | Х | Х | |
| Wingwalls | | Х | Х | |
| (Shape:) | | 1 | 1 | |
| Cutoff Wall | | X | X | |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 300 | | | |
| Scour Protection | | N | N | Snow covered. |
| (Type:) | | | | |
| (Avg. Rock Size(mm):) | | | | |
| Scour/Erosion | | N | N | Snow covered. |
| Beavers (Y/N) | No | | | |
| Downstream End General Ratio | ng | 7 | 7 | |
| | | 6 | Armotu | re Usage |
| | | Last | | Explanation of Condition |
| Channel (U/S and D/S) | | Last | INOW | Explanation of condition |
| Alignment | | 6 | 6 | |
| Bank Stability | | 6 | 6 | |
| HWM (m below Top of Culvert) 0.7 | | | | Flow line with pipe. |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | AGGRADING | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : | NONE) | | | |
| (Fish Compensation Measure 2 : | NONE) | | | |
| Channel General Rating | | 6 | 6 | |

Bridge Inspection & Maintenance System (Web 2005)

| | | Maintenance | Recommendations | | | | |
|--|--------------------|-----------------------------------|---------------------------|--------------------------------------|----------------|-----------|-------|
| Inspector Recommendations | Year | Inspector Comments | Department Con | nments | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | Restore clay seal & riprap to top | edge of bevel. | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | G | | | | | | |
| INSTALL STRUTS | 2013 | Depending on Lvl 2 results. | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | |
| REPAIR SEAMS | | | | | | | |
| OTHER ACTION | | Lvl 2 barrel inspections. | | | | | |
| OTHER ACTION | | Seal ACP crack at culvert. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/N(%) | Now) 33.3/3 | 3.3 Sufficiency Rating (La | st/Now) 55.7/55.9 | Est. Repl. Yr 2023 | Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection There is a substantindicating a backfill | itial difference b | wn deformation under rdwy & shoul | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | Estimated Tota | I 0 | |
| Proposed Long-Term Strategy | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | |
| Proposed Action | | | | | | | |
| Previous Inspector's Name Owen | | | Previous Assistant's Name | Previous Assistant's Name | | | |
| Next Inspection Date | 07-May-2016 | | Previous Inspection Date | Previous Inspection Date 03-Mar-2010 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |