| | | 1 Bridge Culvert | | | | ert Inspe | ection | | | | | | | |
|--|----------------------------|-------------------------------------|-----------------------|------------|---------|--------------------|--|---|----------------|---------------|-----------------------|-------|--|--|
| Bridge File Number 77551 | | //551 -1 | 551 -1 Bridge Culvert | | | | Form I | уре | | | | | | |
| Pridre er Terre New 1974 | | | | | LOT NO. | | | 1 Drive Directory | | | | | | |
| | | | | | | Inspector Name | | | Brian Pientsch | | | | | |
| Located Over | | WINAGA | CRS-IC | | | | Inspector Class | | | BR CLS A | | | | |
| Located On | 2 | 2:56 C1 | 10.058 | 0.058 | | | | Int Name | | Clem Guenette | | | | |
| Water Body CI./Year | | | | | | | Assistant Class | | | BR CLS B | | | | |
| Navigabil, CL/Year | | | | | | | Inspection Date | | | 12-Dec-2012 | | | | |
| Legal Land Location NW SEC | | | 22 TWP 77 RGE 19 W5M | | | | Data E | Data Entry Data 24 Jan 2012 | | | | | | |
| Longitude, Latitude -116:52:21 | | | 21, 55:41:26 | | | | Reviewer Name | | | 24-Jan-2013 | | | | |
| Road Authority Alberta Tr | | ransportation (AIT) | | | | Review Date | | | | | | | | |
| Contract Main. Area CMA03 | | | | | | Dept Reviewer Name | | | David Morrison | | | | | |
| Clear Roadway/Skew 8.9 / | | | | | | Dept. Review Date | | | 18-Mar-2013 | | | | | |
| AADT/Year 1,160 / 20 | | 011 (A) | | | | Follow-Lip By | | | 10-IVIdI-2013 | | | | | |
| Road Classifica | ation F | RAU-209 | -110 | | | | гоном-ор ву | | | | | | | |
| Detour Length (| (km) 8 | 30 | | | | | | | | | | | | |
| Bridge Culvert | Informa | tion | | | | | | | | | | | | |
| Number of Culv | Number of Culverts 1 | | | | | | | | | | | | | |
| Pipe # | Barrel | 5 | Span | Rise (or D | Dia.) | Туре | Leng | | | Corr. Profile | PI./Slab Thickness | Shape | | |
| 1 | MAIN | - | • | 2027 | | MP | | 30.676 | | 68X13 | 3.5 | ROUND | | |
| Special Feature | es | ١ | VERT STEEL | STRUTS | | | | | | | | | | |
| Special Features Comment | | | | | | | | | | | | | | |
| Utilities (Located at) | | | | | | | | | | | | | | |
| Utility Attachme | tility Attachments | | | | | | | | | | | | | |
| Telephone | 12 m w | west | | | | | | Gas Crosses N. 50 m & 12m N Could not verify in | | | | | | |
| Power | 300m E | East 4 wires O/H. | | | | | | | field. | | | | | |
| Others | Waterli | aterline crosses channel 40m West c | | | outle | outlet. Municipal | | | | | | | | |
| | | | | | | | Problem (Y/N) No | | | | | | | |
| Remarks | | | | | | | | | | | | | | |
| | Approach Road / Embankment | | | | | | | | | | | | | |
| Herizentel Alienment | | | | | 2 7 | TNOW 7 | Field access 10m South @ SF & SW TWP RD 774 250m N | | | | | | | |
| Vertical Alignment | | | | | , q | 9 | | | | | | | | |
| Ventical Alighment | | | | Ŭ | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Roadway Width | n (m) | | 9.300 | | | | | | | | | | | |
| Embankment | | | | | 8 | 8 | | | | | | | | |
| Sideslope (·1) | | | 3.0 | | • | Ŭ | | | | | | | | |
| (Height of Co | ver(m) : 3 | 3) | | | | | | | | | | | | |
| Guardrail (Y/N) | | | No | | | | | | | | | | | |
| Approach Roa | d / Emba | ankmen | t General Rat | ing | 7 | 7 | | | | | | | | |
| | | | | | | Unstra | am End | | | | | | | |
| Culvert Component | | | | | | | | Condi | tion | | | | | |
| Direction | | | F | non | Explain | | oonan | | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | | |
| Headwall | | | | | Х | Х | | | | | | | | |
| Collar | | | | Х | Х | | | | | | | | | |
| Wingwalls | | | | | X X | | | | | | | | | |
| (Shape :) | | | | | | | | | | | | | | |

Alberta Transportation

| | | | Upstre | eam End | | | | | | |
|--|----------------------|--------|--------|--|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| Cutoff Wall | | | X | | | | | | | |
| Bevel End | | 6 | 6 | _ | | | | | | |
| Heaving (mm) | | | | | | | | | | |
| Invert Above/Below Stream Bed BELOW | | | | _ | | | | | | |
| Above/Below (mm) | 150 | | | | | | | | | |
| Scour Protection | | 5 | N | Snow covered | | | | | | |
| (Type : RIP RAP) | | | | | | | | | | |
| (Avg. Rock Size(mm) : 200) | | 1 | | | | | | | | |
| Scour/Erosion | | 5 | N | Snow covered | | | | | | |
| Beavers (Y/N) | No | | | | | | | | | |
| Upstream End General Rating | | 5 | 6 | | | | | | | |
| | | Brid | dge Cu | Ivert Barrel | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | ın (mm |): | , Rise (mm): 2027, Type: MP) | | | | | | |
| Barrel Last Accessible Date | 12-Dec-2012 | | | Ice to roof =952mm | | | | | | |
| Special Features | | | | | | | | | | |
| Special Feature | | N | 6 | | | | | | | |
| (Type : VERT STEEL STRUTS) | | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Type :) | | | | | | | | | | |
| Roof | | N | 2 | Est. | | | | | | |
| Measured Rise (mm) | | | | Measurements not taken due to ice on floor | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Sag (mm) | 400 | | | | | | | | | |
| Percent Sag | 19 | | | | | | | | | |
| Sidewall | | N | 2 | | | | | | | |
| Measured Span (mm) | 2533 | | | | | | | | | |
| Measured At Ring No. | 25 | | | | | | | | | |
| Deflection (mm) | 506 | | | | | | | | | |
| Percent Deflection | 25 | | | | | | | | | |
| Floor | | N | N | Under ice. | | | | | | |
| Bulge (mm) | 0 | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Abrasion (Y/N) | No | | | | | | | | | |
| Circumferential Seams | | N | 5 | | | | | | | |
| Separation (mm) | 100 | | | | | | | | | |
| Longitudinal Seams | | N | 5 | Rivetted. | | | | | | |
| 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) | Yes | | | | | | | | | |
| Coating | | | 3 | Rust on bottom 1/2, deep pitting/scaling. | | | | | | |
| Corrosion By Soil (Y/N) | Yes | | | Also rust stains coming through seams. Rating based on visible portions u/s & d/s | | | | | | |
| Corrosion By Water (Y/N) | Yes | | | | | | | | | |
| Camber POS/ZERO/NEG | NEG | | | | | | | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

| Bridge Culvert Barrel | | | | | | | | | | |
|---|-----------------------|--------|---------|--|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | ın (mm |): | , Rise (mm): 2027, Type: MP) | | | | | | |
| Ponding (Y/N) No | | | | | | | | | | |
| Fish Passage Adequacy | | 6 | 6 | | | | | | | |
| Baffle | | Х | Х | | | | | | | |
| (Type :) | | | | | | | | | | |
| Waterway Adequacy | | 6 | 6 | | | | | | | |
| Icing (Y/N) | No | | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | | |
| Barrel General Rating | Barrel General Rating | | | Increase of +1 due to struts being in place more than 2 years. | | | | | | |
| | | | ownstr | ream End | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| Direction | | W | | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | | |
| Headwall | leadwall | | X | | | | | | | |
| Collar | | Х | X | | | | | | | |
| Wingwalls | | X | Х | | | | | | | |
| (Shape :) | | | | | | | | | | |
| Cutoff Wall | | | X | | | | | | | |
| Bevel End | | 5 | 6 | | | | | | | |
| Heaving (mm) | 50 | | | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | | | |
| Above/Below (mm) | 100 | | | | | | | | | |
| Scour Protection | | 5 | N | | | | | | | |
| (Type : RIP RAP) | | | | - | | | | | | |
| (Avg. Rock Size(mm) : 200) | | 1 | 1 | | | | | | | |
| Scour/Erosion | | | N | | | | | | | |
| Beavers (Y/N) | No | | | | | | | | | |
| Downstream End General Ratin | ng | 5 | 6 | | | | | | | |
| | | S | structu | re Usage | | | | | | |
| | | Last | Now | Explanation of Condition | | | | | | |
| Channel (U/S and D/S) | | | | | | | | | | |
| Alignment | | | 7 | | | | | | | |
| Bank Stability | | | 7 | | | | | | | |
| HWM (m below Top of Culvert) | | | | No HWM visible. | | | | | | |
| Drift (Y/N) No | | | | | | | | | | |
| Channel Bottom DEGRADING Degrading/Aggrading | | | | | | | | | | |
| Beavers (Y/N) | Beavers (Y/N) No | | | | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | 1 | | | | | | | |
| Channel General Rating | | | 7 | | | | | | | |

| Maintenance Recommendations | | | | | | | | | | | | |
|---|-------------------------|--------------------------|-------------------------|--|------------------|--------------------------------|----|-------------------|----------------|-----------|-----------|-----|
| Inspector Recommendations | Y | Year | Inspecto | or Comments | | Department Cor | ts | | Target Year | Est. Cost | Cat # | |
| SHOTCRETE REPAIRS | | | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTC | DFF | | | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | | | |
| OTHER ACTION | 2 | 2013 | Liner or assessm | culvert replacement as per nent completed Dec/2006. | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | | 33.3/33.3 | | Sufficiency Rating (Last/ (%) | /Now) | 44.9/47.0 E | | st. Repl. Yr 2013 | | Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection |) advised eted Dec/0 | l of low r ′06 - line | rating 12-l e recomm | Dec-2012. ended. | | Department Comments | | | | | | |
| Maintenance Reviewed By | | | | | Date | | | E | Estimated Tota | 0 | | |
| Proposed Long-Term Strategy | | | | | | | | | · | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | | | |
| Proposed Action | | | | | | | | | | | | |
| Previous Inspector's Name Shar | | Iall | | Previous | Assistant's Name | | | | | | | |
| Next Inspection Date 12- | | 12-Sep-2014 Pr | | | | Is Inspection Date 18-Jul-2012 | | | | | | |
| Inspection Cycle (Default) (months) 21 | | | | | | | | | | | | |
| Comment | | | | | | | | | | | | |