| | | | | | Bride | e Culve | ert Inspe | ection | | | | | | |
|---|-----------|-----------------------------|-------------------------------|----------------|----------------------|------------------------------|--|---------|--------------|---------------|-----------------------|-----------|--|--|
| Bridge File Nur | nber | 70699 -1 Bridge Culvert | | | Ende | je curv | Form Type | | CUL1 | | | | | |
| Year Built 1974 | | | | | | Lot No. | | | 4 | | | | | |
| Bridge or Town Name DELIA | | | | | | | Inspector Name | | Owen Salava | | | | | |
| Located Over | TVallic | | IBUTARY TO WILLOW CK, 3.30.4, | | | | Inspector Class | | BR CLS A | | | | | |
| Located Over | | WATER | | OVV OIX, C | J.50. - , | | Assistant Name | | DR CL3 A | | | | | |
| Located On | C1 25.587 | 25.587 | | | | Assistant Class | | | | | | | | |
| Water Body Cl./Year | | | | | | | Inspection Date | | 27-Jan-2011 | | | | | |
| Navigabil. Cl./Y | 'ear | | | | | | Data Entry By | | Marcia Chave | 7 | | | | |
| Legal Land Location SW SEC 17 TWP 29 RGE 17 | | | | RGE 17 W | 4M | | Data Entry Date | | 03-Mar-2011 | | | | | |
| | | | 01 51.08.07 | | | | Reviewer Name | | | John O'Brien | | | | |
| | | | ranguartation (AIT) | | | | Reviewer Name Review Date | | | 03-Feb-2011 | | | | |
| Contract Main. | Area | CMA21 | | | | | Dept. Reviewer Name | | 1 | | | | | |
| Clear Roadway | /Skew | 8.3 / 15 | deg. (RHF) | | | · | | | | | | | | |
| AADT/Year | | 520 / 20 | 09 (A) | | | | Dept. Review Date | | 04-Mar-2011 | | | | | |
| Road Classifica | ation | RCU-20 | | | | Follow-Up By | | | | | | | | |
| Detour Length | (km) | 20 | | | | | | | | | | | | |
| Bridge Culver | ` ' | nation | | | | | | | | | | | | |
| Number of Culv | /erts | | 1 | | | | | | | | | | | |
| Pipe # | Barrel | ; | Span | Rise (or Dia.) | | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | | |
| 1 | U/S | 1 | 2134 | 1549 | | RPP | | 6.7 | | 152X51 | 3.0 | PIPE ARCH | | |
| 1 | MAIN | 1 | 2134 | 1549 | RPP | | | 14 | | 152X51 | 3.0 | PIPE ARCH | | |
| 1 | D/S | 1 | 2134 | 1549 | | RPP | | 6.7 | | 152X51 | 3.0 | PIPE ARCH | | |
| Special Feature | es | | | | | | | | | | | | | |
| Special Feature | es Comi | ment | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | Ut | ilities (L | _ocated | at) | | | | | | |
| Utility Attachme | ents | | | | | | | | T | | | | | |
| Telephone | _ | | | | | | Gas | | 100 m | North. | | | | |
| Power | Powe | er 30m N, in S ditch 3 wire | | | | | Municip | | | | | | | |
| Others | | | | | | | Probler | n (Y/N) | No | | | | | |
| Remarks | | | | | | | | | | | | | | |
| | | | | A | | | pad / Embankment | | | | | | | |
| Harizantal Alias | nmont. | | | | Last | Now | Explanation of Condition T-intersection 15m to W. | | | | | | | |
| Horizontal Alignment | | | | 7 | 7 | 1-intersection 15m to | | | /V. | | | | | |
| Vertical Alignm | | | 9.200 | | 7 | 7 | | | | | | | | |
| Roadway Widtl | 1 (m) | | 8.300 | | | _ | | | | | | | | |
| Embankment | | | | | | 7 | Wide trans. crack in A | | ck in A0 | CP over pipe. | | | | |
| Sideslope (| _:1) | | 2.7 | | | | _ | | | | | | | |
| (Height of Co | ver(m) : | : 2.2) | | | | | | | | | | | | |
| Guardrail (Y/N) | | | No | | | | | | | | | | | |
| Approach Roa | ıd / Eml | bankmen | nt General Rat | ing | 6 | 7 | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | |
| Culvert Component | | | | | | Now Explanation of Condition | | | | | | | | |
| Direction | | N | | | | | | | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | | |
| Headwall | · | | | | Х | X | | | | | | | | |
| Collar | | | Х | X | | | | | | | | | | |
| | Wingwalls | | | | | 1 | | | | | | | | |
| Wingwalls | | | | | Х | Х | | | | | | | | |

70699 -1 Bridge Culvert

| | | | Upstre | eam End |
|---|--------------------|-----------|---------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| Cutoff Wall | | Х | Х | |
| Bevel End | | 6 | 6 | |
| Heaving (mm) | 0 | | 0 | |
| Invert Above/Below Stream Bed | - | | | |
| Above/Below (mm) | 160 | | | |
| Scour Protection | 100 | 7 | N | (Small amount of rip-rap, natural grass functioning well. 18Feb2009 |
| | | / | IN | Snow covered. |
| (Type:) | | | | - |
| (Avg. Rock Size(mm) :) Scour/Erosion | | 7 | N | Snow covered. |
| 3COUI/E10SIOI1 | | , | IN | Show covered. |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 6 | |
| | | Bri | dge Cu | ilvert Barrel |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe #: 1, Primary Span, Locat | tion Code: U/S, Sp | oan (mm): | 2134, 1 | Rise (mm): 1549, Type: RPP) |
| Barrel Last Accessible Date | 27-Jan-2011 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 6 | 6 | (1410 Rise R6 + 100mm floor bulge = 1510 Rise. 18Feb2009). |
| Measured Rise (mm) | 1510 | | | Unable to measure due to ice. |
| Measured At Ring No. | 6 | | | - |
| Sag (mm) | 39 | | | - |
| Percent Sag | 3 | | | _ |
| Sidewall | 0 | 4 | 4 | (Lower S/W crimping in R5. 18Feb2009). Snow covered. |
| Measured Span (mm) | 2210 | | | (Lower 5/W chimping in No. 101 eb2003). Onlow covered. |
| Measured At Ring No. | 6 | | | _ |
| Deflection (mm) | 76 | | | _ |
| Percent Deflection | 4 | | | _ |
| | 4 | 4 | l NI | Snow/ice covered. |
| Floor | 400 | 4 | N | Snow/ice covered. |
| Bulge (mm) | 100 | | | _ |
| Measured At Ring No. | 6 Yes | | | _ |
| Abrasion (Y/N) | res | _ | T - | (2) () () () () () () () () () |
| Circumferential Seams | 1_ | 5 | 5 | (Perforation hole D/S - could not confirm. 14/10/04). Random bolts missing. |
| Separation (mm) | 0 | | 1 . | |
| Longitudinal Seams | | 4 | N | (R5 West S/W has 6 cracks - No change from 2004. 18Feb2009). Snow covered seam. |
| Total No. of Cracked Rings | 1 | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | |
| Min. Remaining Steel Between Cracks (mm) | 96 | | | |
| Proper Lap (Y/N) | No | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 5 | 5 | Alkaline present. Mild corrosion. |
| Corrosion By Soil (Y/N) | Yes | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| | | | | |
| Camber POS/ZERO/NEG | NEG | | | |

| | | Bric | lge Cu | lvert Barrel | | | | | |
|---|---------------------------------------|------------------|---------|---|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Locat | tion Code: U/S, Span | (mm): | 2134, I | Rise (mm): 1549, Type: RPP) | | | | | |
| Ponding (Y/N) | No | | | | | | | | |
| Fish Passage Adequacy | | 5 | 5 | | | | | | |
| Baffle | | Х | Х | | | | | | |
| (Type:) | | | | | | | | | |
| Waterway Adequacy | | 7 | 7 | | | | | | |
| Icing (Y/N) | No | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel Extension General Ratin | ıg | 4 | 4 | GR carried forward from 18Feb2009. | | | | | |
| | | | | | | | | | |
| Culvert Component | | | | ream End | | | | | |
| Culvert Component Direction | | Last S | Now | Explanation of Condition | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | 3 | | | | | | | |
| Headwall | | Х | Х | | | | | | |
| Collar | | Х | Х | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape:) | | | | | | | | | |
| Cutoff Wall | | Х | Х | | | | | | |
| Bevel End | | 5 | N | (Some damage present, minor rust | | | | | |
| Heaving (mm) | 0 | | | present on floor & side walls. 18Feb2009). Snow covered. | | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | | | | | | |
| Above/Below (mm) | 200 | | | | | | | | |
| Scour Protection | | 4 | N | (End undermined 1.0m. Small amount of rock riprap. Natural grass | | | | | |
| (Type:) | | | | adequate protection. 18Feb2009). Snow covered. | | | | | |
| (Avg. Rock Size(mm):) | | | | | | | | | |
| Scour/Erosion | | 4 | N | (2.2 x 2.0 x 0.6 scour hole. Localized and minor. 18Feb2009). Snow covered. | | | | | |
| Beavers (Y/N) No | | | | (Water could flow under bevel end. 18Feb2009). | | | | | |
| Downstream End General Ratio | ng | 4 | 4 | GR carried forward from 18Feb2009. | | | | | |
| | | S | tructu | ire Usage | | | | | |
| | | Last | Now | Explanation of Condition | | | | | |
| Channel (U/S and D/S) | | | 1 | | | | | | |
| Alignment | | 6 | 6 | U/S has minor curve into culvert. | | | | | |
| Bank Stability | | 7 | 7 | | | | | | |
| HWM (m below Top of Culvert) | | | | No visible HWM | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Channel Bottom Degrading/Aggrading | | | | | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| (Fish Compensation Measure 1 : | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | | | |
| Channel General Rating | | 7 | 6 | | | | | | |

| | | Maintenance Rec | ommend | ations | | | | | |
|--|---------------|---|------------------|-----------------------------|---------------|----------------|-----------|-----------|-----|
| Inspector Recommendations | Year | Inspector Comments | | Department Comm | ents | Target Year | Est. Cost | Cat # | |
| SHOTCRETE REPAIRS | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | 2011 | 5m3 CL 1, if not yet done. | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | 3 | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| Structural Condition Rating (Last/N (%) | ow) 44.4/44 | 44.4/44.4 Sufficiency Rating (Last/No (%) | | 57.5/56.1 | Est. Repl. Yr | 2024 Maint. Re | | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | Date | | E | Estimated Tota | I 0 | | |
| Proposed Long-Term Strategy | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | |
| Proposed Action | | | | | | | | | |
| Previous Inspector's Name | Garry Roberts | F | Assistant's Name | | | | | | |
| Next Inspection Date | 27-Apr-2014 | - | Previous I | Inspection Date 18-Feb-2009 | | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | | |
| Comment | | | | | | | | | |