| | | | | | Bridg | e Culve | ert Inspe | ection | | | | | | |
|--|---------|-----------|----------------------------------|-----------------------|-------------|-----------------|---------------------|---|-----------------|---------------|-----------------------|----------|--|--|
| Bridge File Number 09742 -1 Bridge Culvert | | | | | Form Type | | CUL1 | | | | | | | |
| Year Built 1991 | | | | | Lot No. | | 4 | | | | | | | |
| Bridge or Town Name VIOLET GROVE | | | | | | Inspector Name | | | Wade Nanninga | | | | | |
| | | | | ER TRIBUTARY TO NORTH | | | | or Class | | BR CLS B | | | | |
| | | | CHEWAN RIVER, 6.143.1, CRS-ST | | | | Assistant Name | | | | | | | |
| Located On | | | | | | Assistant Class | | | | | | | | |
| | | | | | | Inspection Date | | 24-Jan-2011 | | | | | | |
| Water Body Cl./Year | | | | | | Data Entry By | | | Theresa Lacusta | | | | | |
| Navigabil. Cl./Year Legal Land Location NW SEC 24 TV | | | C 24 TWP 48 R | | | | | ntry Date | | 15-Feb-2011 | | | | |
| | | | :18, 53:09:22 | | Review | er Name | | Arnold Assenheimer | | | | | | |
| | | | Transportation | | Review Date | | 14-Feb-2011 | | | | | | | |
| Contract Main. | | CMA11 | Transportation | (,) | | | Dept. Reviewer Name | | Brent Herrick | | | | | |
| Clear Roadway | | | deg. (RHF) | | | | Dept. Review Date | | | 22-Feb-2011 | | | | |
| AADT/Year | | | 2009 (A) | | | | Follow- | Up By | | | | | | |
| Road Classifica | | RAU-21 | | | | | - | | | | | | | |
| Detour Length | | 3 | 1.0 110 | | | | | | | | | | | |
| Bridge Culvert | • • | | | | | | | | | | | | | |
| Number of Culv | | | 1 | | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | | |
| 1 | MAIN | | - | 2430 | | SP | | 68.3 | | 152X51 | 3.0 | ROUND | | |
| Special Feature | | | | 1 - 1 - 1 | | | | | | 1.00.00 | 1000 | 11122112 | | |
| Special Feature | | nent | | | | | | | | | | | | |
| Operation Catalog | | | | | | | | | | | | | | |
| | | | | | Uti | ilities (L | ocated | at) | | | | | | |
| Utility Attachme | ents | | | | | | | | | | | | | |
| Telephone | South | r/w. | | | | | Gas | | | | | | | |
| Power | 6 wires | s north r | /w & 45 m west | t | | | Municip | oal | | | | | | |
| Power 6 wires north r/w & 45 m west. Others Remarks BF installed on top of North bevel roof. | | | | Probler | n (Y/N) | No | | | | | | | | |
| Remarks | BF inst | talled or | n top of North b | | | | | | | | | | | |
| | | | | A | | | | ankment | | | | | | |
| | | | | | | | | Explanation of Condition | | | | | | |
| Horizontal Align | | | | | 7 | 6 | | Intersection 45 m east. Sag curve, no passing either direction. Turning lanes both sic | | | | | | |
| Vertical Alignment | | | 6 | | | · | | | | | | | | |
| Roadway Width | n (m) | | 11.800 | | | | | | | | | | | |
| Embankment | | | | | N | 7 | | | | | | | | |
| Sideslope (| _:1) | | 3.0 | | | | | | | | | | | |
| (Height of Cover(m) : 5.4) | | | | | | | | | | | | | | |
| Guardrail (Y/N) |) | | No | | | | | | | | | | | |
| Approach Roa | d / Emb | ankmer | nt General Rat | ing | 6 | 6 | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | |
| Culvert Compo | onent | | | | Last | Now | Explan | ation of | Condi | tion | | | | |
| Direction | | | | | N | | | | | | | | | |
| End Treatment Others, None) | (Concre | te, Stee | I, STEEL | | | | | | | | | | | |
| Headwall | | Х | Х | | | | | | | | | | | |
| Collar | | | Х | Х | | | | | | | | | | |
| Wingwalls | | | Х | Х | | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | | |

09742 -1 Bridge Culvert

| | | | Unstre | am End |
|--|-------------------|---------|----------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| Cutoff Wall | 1 | X | X | Explanation of condition |
| Caton Tran | | | | |
| Bevel End | | 8 | 8 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | 0 | | | |
| Scour Protection | | N | N | Snow covered. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | N | N | Iced over. No sign of problem but bevel projecting from fill. |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 5 | 5 | GR carried forward. |
| | | | data A | hart Barrel |
| Culvert Component | | | Now | Ivert Barrel |
| Culvert Component (Pipe # : 1, Primary Span, Location) | tion Code: MAIN S | | | Explanation of Condition , Rise (mm): 2430, Type: SP) |
| | | pan (mm | 1): | |
| Barrel Last Accessible Date | 24-Jan-2011 | | | 0.5m ice along floor. |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 4 | 4 | (Rise 2335 at c/l, 4%. 03/Sept/2004) |
| Measured Rise (mm) | | | | Poor nesting. Flattening of roof near midspan. |
| Measured At Ring No. | | | | - Flatterling of roof flear filluspart. |
| Sag (mm) | | | | est |
| Percent Sag | 7 | | | |
| Sidewall | | 5 | 5 | |
| Measured Span (mm) | 2585 | | | |
| Measured At Ring No. | 10 | | | |
| Deflection (mm) | 155 | | | |
| Percent Deflection | 6 | | | |
| Floor | | N | N | (Some floor seams are flattened out. 2001/04/18) |
| Bulge (mm) | 0 | | | 1 |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | Yes | | | |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 0 | | 1 | 1 |
| Longitudinal Seams | | 4 | 4 | (Floor seams, some have flattened out. 99/04/19) |
| Total No. of Cracked Rings | 0 | | | Flattening of roof seams. |
| 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 | | 6 | 6 | Superficial rust @ lower half. |
| Corrosion By Soil (Y/N) | No | 0 | <u> </u> | - Superioral radio Superioral radio |
| Corrosion By Water (Y/N) | Yes | | | |
| | | | | |
| Camber POS/ZERO/NEG | NEG | | | |

| Bridge Culvert Barrel | | | | | | | | | |
|---|---------------------|---------------|----------|---|--|--|--|--|--|
| Culvert Component | | | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN Sna | Last n (mm | | , Rise (mm): 2430, Type: SP) | | | | | |
| Ponding (Y/N) | No | (| <i>,</i> | , race (mm). 2-roo, Type. or) | | | | | |
| 1 origing (1714) | | | | | | | | | |
| Fish Passage Adequacy | | 5 | 5 | | | | | | |
| Baffle | | Х | Х | | | | | | |
| (Type:) | | | | | | | | | |
| Waterway Adequacy | | 8 | 8 | | | | | | |
| Icing (Y/N) | No | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel General Rating | | 4 | 4 | | | | | | |
| | | | | | | | | | |
| Outroot Comment | | | | ream End | | | | | |
| Culvert Component Direction | | Last | Now | Explanation of Condition | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | 3 | | | | | | | |
| Headwall | | Х | Х | | | | | | |
| Collar | | Х | X | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape:) | | | | | | | | | |
| Cutoff Wall | | | X | | | | | | |
| Bevel End | | | 8 | | | | | | |
| Heaving (mm) | 0 | | | | | | | | |
| Invert Above/Below Stream Bed ABOVE | | | | | | | | | |
| Above/Below (mm) | 200 | | | | | | | | |
| Scour Protection | | N | N | Snow/ice covered. | | | | | |
| (Type : RIP RAP) | | | | | | | | | |
| (Avg. Rock Size(mm) : 300) | | | | | | | | | |
| Scour/Erosion | | N | N | Iced over, no sign of problem. | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Downstream End General Rating | | 8 | 8 | G.R. carried forward from 03/Sept/2004. | | | | | |
| | | S | | re Usage | | | | | |
| | | Last | Now | Explanation of Condition | | | | | |
| Channel (U/S and D/S) | | | 1 | | | | | | |
| Alignment | | 8 | 8 | | | | | | |
| Bank Stability | | | 8 | | | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible D/S channel. | | | | | |
| Drift (Y/N) | Yes | | | | | | | | |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| (Fish Compensation Measure 1 : NONE) | | | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | | | |
| Channel General Rating | | | 8 | | | | | | |

| Structure Usage | | | | | | | | |
|-----------------|----|-----|-----|--------------------------|--|--|--|--|
| | La | ast | Now | Explanation of Condition | | | | |
| | | | | | | | | |

| | | Maintenance Re | commend | dations | | | | | |
|---|-------------|---------------------------------------|----------|-----------------------------|---------------|----------------|----------------|-----------|-------|
| Inspector Recommendations | Year | Inspector Comments | | Department Comm | ents | | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | 6 | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTO | 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 (Las (%) | | 64.1/64.3 | Est. Repl. Yr | 2041 Maint. Re | | qd. (Y/N) | No |
| Special Monitor roof seam to Comments for Next Inspection | flattening. | | | 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 | Dave Lam | | Previous | Assistant's Name | | | | | |
| Next Inspection Date | 24-Apr-2014 | | Previous | Inspection Date 18-Dec-2007 | | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | | |
| Comment | | | | | | | | | |