



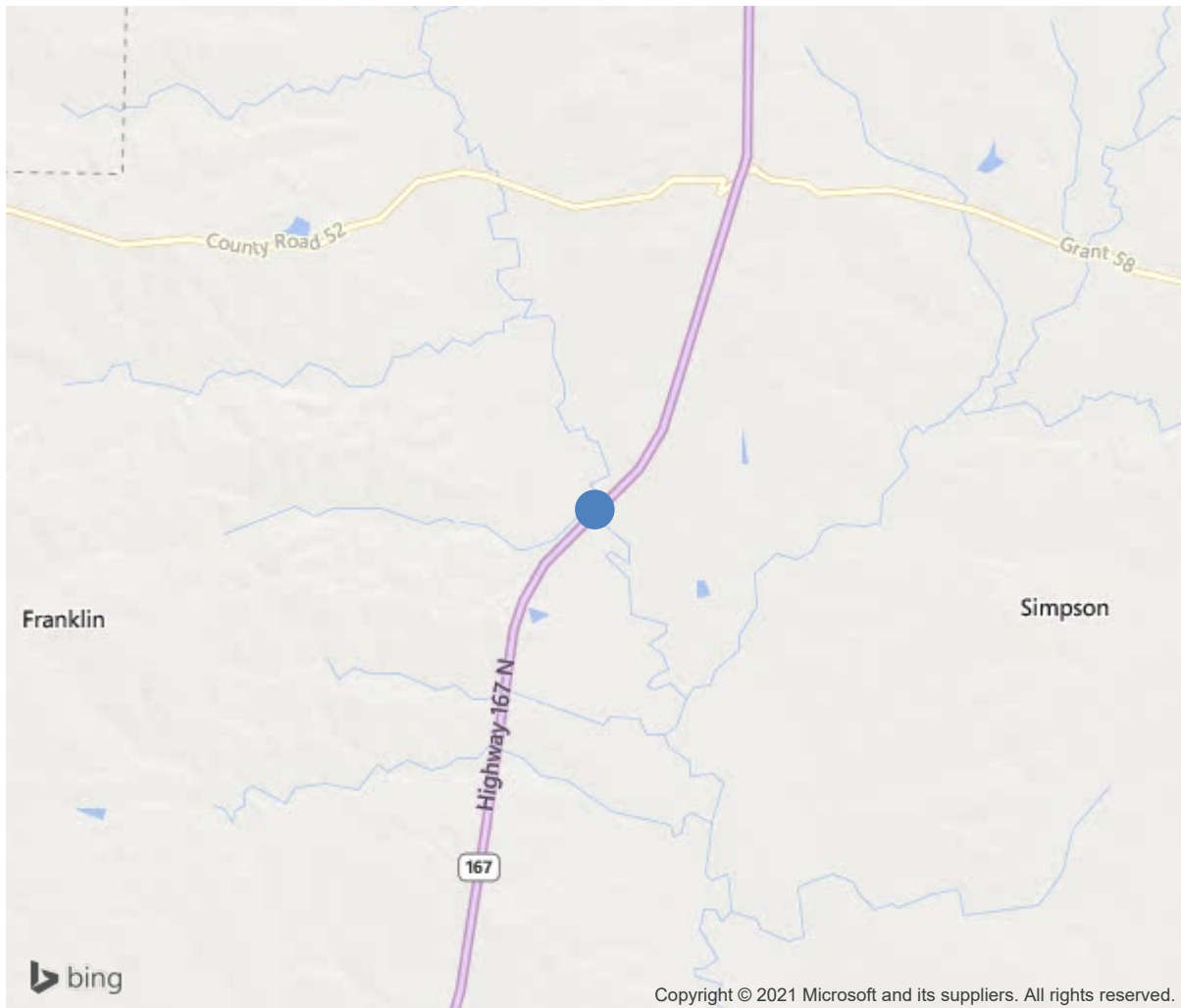
Bridge #06975(Routine)

US 167-11 LM 9.16 over Hurricane Creek

Location: 8.72 Mi N US 270-Ico

Team Lead: Greg Loomis **Inspection Date:** September 03, 2019

8.72 Mi N US 270-Ico



34.42762, -92.36328



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| IDENTIFICATION | |
|---|--|
| (1) State Names | Arkansas |
| (8) Structure Number | 06975 |
| (5) Inventory Route | 167 |
| (2) Highway Agency District | 02 |
| (3) County Code | 53-Grant County, Arkansas |
| (4) Place Code | 0 |
| (6) Features Intersected | Hurricane Creek |
| (7) Facility Carried | US 167-11 LM 9.16 |
| (9) Location | 8.72 Mi N US 270-Ico |
| (11) Mile Point | 9.16 mi |
| (12) Base Highway Network | Yes |
| (13) LRS Inventory Rte & Subrte | 0000167110 |
| (16) Latitude | 34.4276231572249 |
| (17) Longitude | -92.3632773331801 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| STRUCTURE TYPE AND MATERIAL | |
| (43) Main Structure Type | 42 |
| Material | 4-Steel continuous |
| Type | 2-Stringer/Multi-beam or girder |
| (44) Approach Structure Type | 00 |
| Material | 0-Other |
| Type | 0-Other |
| (45) No. of Spans in Main Unit | 15 |
| (46) No. of Approach Spans | 0 |
| (107) Deck Structure Type | 1-Concrete Cast-in-Place |
| (108) Wearing Surface/Protective System | |
| Type of Wearing Surface | 1-Monolithic Concrete (concurrently placed |
| Type of Membrane | 0-None |
| Type of Deck Protection | 1-Epoxy Coated Reinforcing |
| AGE AND SERVICE | |
| (27) Year Built | 2007 |
| (106) Year Reconstructed | 0 |
| (42) Type of Service | 15 |
| On | 1-Highway |
| Under | 5-Waterway |
| (28) Lane | |
| On | 5 |
| Under | 0 |
| (29) Average Daily Traffic | 9000 |
| (30) Year of ADT | 2014 |
| (109) Truck ADT | 1 % |
| (19) Bypass, Detour Length | 14 mi |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 38 ft |
| (49) Structure Length | 530.3 ft |
| (50) Curb or Sidewalk Width | |
| Left | 0 ft |
| Right | 0 ft |
| (51) Bridge Roadway Width Curb to Curb | 76.1 ft |
| (52) Deck Width Out to Out | 77.7 ft |
| (32) Approach Roadway Width (W/Shoulders) | 74.8 ft |
| (33) Bridge Median | 0-No median |
| (34) Skew | 0 Deg |
| (35) Structure Flared | No flare |
| (10) Inventory Route Min Vert Clear | 99.99 ft |
| (47) Inventory Route Total Horiz Clear | 76.1 ft |
| (53) Min Vert Clear Over Bridge Rdwy | 99.99 ft |
| (54) Min Vert Underclear | 0 ft |
| Ref: | |
| (55) Min Lat Underclear RT | 99.9 ft |
| Ref: | |
| (56) Min Lat Underclear LT | 0 ft |
| NAVIGATION DATA | |
| (38) Navigation Control | 0-No navigation control on water |
| (111) Pier Protection | 5-None present but re-evaluation |
| (39) Navigation Vertical Clearance | 0 ft |
| (116) Vert-Lift Bridge Nav Min Vert Clear | 0 ft |
| (40) Navigation Horizontal Clearance | 0 ft |

| CLASSIFICATION | |
|--|--|
| (112) NBIS Bridge Length | Y |
| (104) Highway System | 1 |
| (26) Functional Class | 2-Rural Principal Arterial - Oth |
| (100) Defense Highway | 1-The inventory route is on a In |
| (101) Parallel Structure | N-No parallel structure exists. |
| (102) Direction of Traffic | 2 - way traffic |
| (103) Temporary Structure | |
| (105) Federal Lands Highways | 0-N/A |
| (110) Designated National Network | 1-The inventory route is part of the |
| (20) Toll | 3-On free road. The structure is toll- |
| (21) Maintain | 1-State Highway Agency |
| (22) Owner | 1-State Highway Agency |
| (37) Historical Significance | 4-Historical significance is not dete |
| CONDITION | |
| (58) Deck | 6 |
| (59) Superstructure | 9 |
| (60) Substructure | 9 |
| (61) Channel & Channel Protection | 8 |
| (62) Culverts | N |
| LOAD RATING AND POSTING | |
| (31) Design Load | 5-MS 18 / HS 20 |
| (63) Operating Rating Method | 1 |
| (64) Operating Rating | |
| Type | 1-Load Factor(LF) |
| Rating | 60 |
| (65) Inventory Rating Method | 1-Load Factor(LF) |
| (66) Inventory Rating | |
| Type | 15 |
| Rating | 36 |
| (70) Bridge Posting | 5-Equal to or above legal loads |
| (41) Structure Open/Posted/Closed | A-Open, no restriction |
| APPRAISAL | |
| (67) Structural Evaluation | 9 |
| (68) Deck Geometry | 7 |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 8 |
| (72) Approach Roadway Alignment | 8 |
| (36) Traffic Safety Features | 1000 |
| A) Bridge Railings | 1-Inspected feature meets currently a |
| B) Transitions | 0-Inspected feature does not meet cur |
| C) Approach Guardrail | 0-Inspected feature does not meet cur |
| D) Approach Guardrail Ends | 0-Inspected feature does not meet cur |
| (113) Scour Critical Bridges | 5-Bridge foundations determined to be |
| PROPOSED IMPROVEMENTS | |
| (75) Type of Work | |
| (76) Length of Structure Improvement | ft |
| (94) Bridge Improvement Cost | \$ |
| (95) Roadway Improvement Cost | \$ |
| (96) Total Project Cost | \$ |
| (97) Year of Improvement Cost Estimate | |
| (114) Future ADT | 9659 |
| (115) Year of Future ADT | 2028 |
| INSPECTIONS | |
| (90) Inspection Date | |
| (91) Frequency | 24 Months |
| (92) Critical Feature Inspection | Done Freq. (Mon) Date |
| A: Fracture Critical Detail | No 24 |
| B: Underwater Inspection | No 0 |
| C: Other Special Inspection | No 0 |



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| ELEM | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|--|---------------------------------|-------|-------|-------|-------|-------|-----|
| 12 | Reinforced Concrete Deck | SF | 41272 | 15928 | 12672 | 12672 | 0 |
| 1130 | Cracking (RC and Other) | SF | 25344 | 0 | 12672 | 12672 | 0 |
| (12) Deck: 78'-2" wide x 528' long = 41, 272 sqft. Unsealed, minor- to moderate-sized longitudinal cracking, especially in right outer lane near edge line. Unsealed, minor- to moderate-sized transverse cracks (3-4' on center), mainly on right half of bridge. | | | | | | | |
| 107 | Steel Open Girder/Beam | LF | 4770 | 4770 | 0 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 28906 | 28906 | 0 | 0 | 0 |
| (107) Girders: 9 per span / Spans 1-15 (30', 38', 40', 38', 30' x 3 = 530' total span). Coating (W24x68): 6.06 square feet per linear feet of girder. | | | | | | | |
| 215 | Reinforced Concrete Abutment | LF | 198 | 134 | 53 | 11 | 0 |
| 1120 | Efflorescence/Rust Staining | LF | 15 | 0 | 10 | 5 | 0 |
| 1130 | Cracking (RC and Other) | LF | 49 | 0 | 43 | 6 | 0 |
| (215) Abutments: 77'-6" = 78' each (with 11' wings each corner) / Bents 1 & 16. Cracking on top of backwall (a few larger cracks) with some with reflective efflorescence on face behind girder ends.. | | | | | | | |
| 227 | Reinforced Concrete Pile | EA | 126 | 126 | 0 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | EA | 0 | 0 | 0 | 0 | 0 |
| (227) Piling: 9 per bent / Bents 2-15. Bent 3 Pile 4 & Bent 11 Piles 5 & 6 have very small chips/spalls. | | | | | | | |
| 234 | Reinforced Concrete Pier Cap | LF | 1078 | 1078 | 0 | 0 | 0 |
| (234) Caps: 77' each / Bents 2-15. | | | | | | | |
| 302 | Compression Joint Seal | LF | 304 | 0 | 304 | 0 | 0 |
| 2350 | Debris Impaction | LF | 292 | 0 | 292 | 0 | 0 |
| 2360 | Adjacent Deck or Header | LF | 12 | 0 | 12 | 0 | 0 |
| (302) Joints: 76' each / Bents 1, 6, 11, & 16. Gravel, dirt, and other debris loosely built-up in joints. Bent 6 right and left outside lanes (outside wheel rut): Concrete adjacent to road iron is cracking and beginning to spall in right lanes. Road iron and concrete are beginning to separate in right lane. | | | | | | | |
| 310 | Elastomeric Bearing | EA | 162 | 162 | 0 | 0 | 0 |

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|-------|--|-------|-------|------|-----|-----|-----|
| (310) | Bearings: 9 per bent / Bents 1-5, 7-10, & 12-16; 18 per bent / Bents 6 & 11. | | | | | | |
| 331 | Reinforced Concrete Bridge Railing | LF | 1060 | 1060 | 0 | 0 | 0 |
| (331) | Railing: 530' each side. | | | | | | |



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Maintenance Needs



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Inspection Comments

Bridge is logged from south to north. Bridge 06975 entered 9/19/2007 10:22:48 by userid rlw. Replaces old structure # 02827 under state job #020318 FAP.#0027(17).

09-19-2007, UW inspection not required due to sub-str. elements are not continuously submerged. Rock riprap on slopes at Abt's. NBI Items #60 and #61 will represent all elements. RLW. 9/24/2007 Changed Item 113 to 5. SWP

Updated LM to 9.16 per Str Line from Tech Services dated 4/2014. DRB, 4/11/14