



Bridge #03089(Routine)
US 70 SEC.05 -8.74 over CADDO RIVER

Location: .05 MI E JCT SH 8 SEC 4

Team Lead: Charlie Rogers Inspection Date: July 23, 2019



Latitude:34.32147, Longitude:-93.55335

Route:70 Section:05 Log:8.74

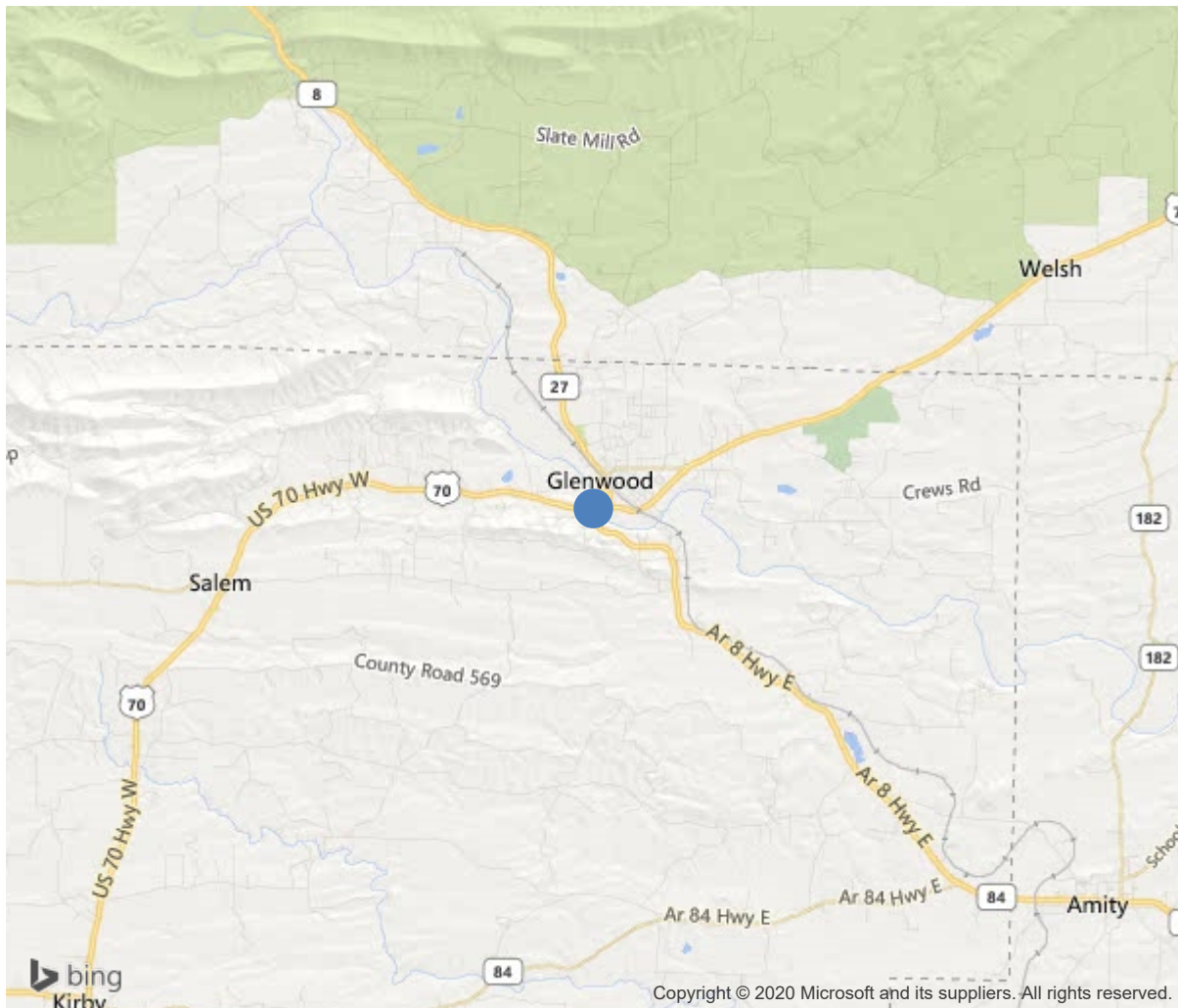
Arnold Road ID:55x70x5xA, Arnold Log mile:8.736

District 03, Pike County

Owner: 1-State Highway Agency

Place Code: 26600 - GLENWOOD

.05 MI E JCT SH 8 SEC 4



34.32147, -93.55335



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| IDENTIFICATION | |
|---|----------------------------------|
| (1) State Names | Arkansas |
| (8) Structure Number | 03089 |
| (5) Inventory Route | 70 |
| (2) Highway Agency District | 03 |
| (3) County Code | 109-Pike County, Arkansas |
| (4) Place Code | 26600 |
| (6) Features Intersected | CADDO RIVER |
| (7) Facility Carried | US 70 SEC.05 -8.74 |
| (9) Location | .05 MI E JCT SH 8 SEC 4 |
| (11) Mile Point | 8.74 mi |
| (12) Base Highway Network | No |
| (13) LRS Inventory Rte & Subrte | 0000000000 |
| (16) Latitude | 34.32147 |
| (17) Longitude | -93.55335 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| STRUCTURE TYPE AND MATERIAL | |
| (43) Main Structure Type | 32 |
| Material | 3-Steel |
| 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 | 9 |
| (46) No. of Approach Spans | 0 |
| (107) Deck Structure Type | 1-Concrete Cast-in-Place |
| (108) Wearing Surface/Protective System | |
| Type of Wearing Surface | 6-Bituminous |
| Type of Membrane | 0-None |
| Type of Deck Protection | 0-None |
| AGE AND SERVICE | |
| (27) Year Built | 1962 |
| (106) Year Reconstructed | 0 |
| (42) Type of Service | 15 |
| On | 1-Highway |
| Under | 5-Waterway |
| (28) Lane | |
| On | 2 |
| Under | 0 |
| (29) Average Daily Traffic | 7700 |
| (30) Year of ADT | 2014 |
| (109) Truck ADT | 1 % |
| (19) Bypass, Detour Length | 15 mi |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 65 ft |
| (49) Structure Length | 587 ft |
| (50) Curb or Sidewalk Width | |
| Left | 1.6 ft |
| Right | 1.6 ft |
| (51) Bridge Roadway Width Curb to Curb | 27.9 ft |
| (52) Deck Width Out to Out | 33.5 ft |
| (32) Approach Roadway Width (W/Shoulders) | 44 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 | 31.5 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 | 1-Navigation protection not requ |
| (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 | 0 |
| (26) Functional Class | 6-Rural Minor Arterial |
| (100) Defense Highway | 0-The inventory route is not a S |
| (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 | 5-Bridge is not eligible for the NRHP |
| CONDITION | |
| (58) Deck | 4 |
| (59) Superstructure | 6 |
| (60) Substructure | 6 |
| (61) Channel & Channel Protection | 7 |
| (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 | 9 |
| 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 | 6 |
| (68) Deck Geometry | 4 |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 7 |
| (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 | 8-Bridge foundations determined to be |
| PROPOSED IMPROVEMENTS | |
| (75) Type of Work | Bridge rehabilitation because |
| (76) Length of Structure Improvement | 587 ft |
| (94) Bridge Improvement Cost | \$ 0 |
| (95) Roadway Improvement Cost | \$ 318000 |
| (96) Total Project Cost | \$ 318000 |
| (97) Year of Improvement Cost Estimate | 2003 |
| (114) Future ADT | 10909 |
| (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 | Yes 24 202007 |



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| ELEM | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|------------|------------------------------------|-------|-------|-------|------|-----|-----|
| 12 | Reinforced Concrete Deck | SF | 19363 | 17674 | 1509 | 180 | 0 |
| 1080 | Delamination/Spall/Patched Area | SF | 1674 | 0 | 1494 | 180 | 0 |
| 1090 | Exposed Rebar | SF | 15 | 0 | 15 | 0 | 0 |
| 107 | Steel Open Girder/Beam | LF | 2925 | 2925 | 0 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 24375 | 24375 | 0 | 0 | 0 |
| (107) | steel beams were painted in 2011 | | | | | | |
| 205 | Reinforced Concrete Column | EA | 16 | 5 | 1 | 10 | 0 |
| 1080 | Delamination/Spall/Patched Area | EA | 1 | 0 | 1 | 0 | 0 |
| 1090 | Exposed Rebar | EA | 10 | 0 | 0 | 10 | 0 |
| (205-1080) | | | | | | | |
| 215 | Reinforced Concrete Abutment | LF | 77 | 73 | 4 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 4 | 0 | 4 | 0 | 0 |
| 234 | Reinforced Concrete Pier Cap | LF | 290 | 268 | 22 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 2 | 0 | 2 | 0 | 0 |
| 1090 | Exposed Rebar | LF | 2 | 0 | 2 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 18 | 0 | 18 | 0 | 0 |
| 303 | Assembly Joint with Seal | LF | 280 | 280 | 0 | 0 | 0 |
| 311 | Movable Bearing | EA | 45 | 45 | 0 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 90 | 90 | 0 | 0 | 0 |
| 313 | Fixed Bearing | EA | 45 | 45 | 0 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 90 | 90 | 0 | 0 | 0 |
| 330 | Metal Bridge Railing | LF | 1074 | 1074 | 0 | 0 | 0 |
| 331 | Reinforced Concrete Bridge Railing | LF | 1074 | 1074 | 0 | 0 | 0 |



Deck



Bent 5 rip rap



SS



Underside of deck typical all spans



Drift at bent 6



Bent 6 and 7 rip rap



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Maintenance Needs



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Inspection Comments

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Deck Notes

07/20/2017 AL,SS,CH,DECK,DEF PHOTO TAKEN. Large amounts of patch area top of deck...
BOTTOM SIDE OF DECK HAS SOME SPALLS W/REBAR EXPOSED DRAINS RT AND LT SIDES TYP. ALL SPANS SPALLS
AND DELAMS...SPAN 1 RIGHT SIDE CURB SPALL VARIOUS LOCATIONS...SPAN 8, RIGHT CURB SALT DAMAGE
W/REBAR. SOME PATCH WORK DONE IN 2017 NEW DRAWINGS DONE7/03/2018 AL,SS,DECK,REPAIR PHOTOS
TAKEN...7/23/2019...AL, SS, Deck photos taken. Updated deck patch quantities per this inspection...

Superstructure Notes

Paint: beams painted in 2011.....ANCHOR BOLTS AT BENT 9 BOLTS ARE DETERIORATING ...

Substructure Notes

Breastwall: Caps

Columns: riprap placed at bents 3,4,5,6,7,8,and 9 by crew 03551 in 2011.....CONCRETE CAPS:

BENT #1 DELAMS IN CONCRETE @ BEAMS # 3 & 4

BENT # 6 @ BEAM # 5 CRACKS IN TOP OF CAPS

BENT # 8 @ BEAM #1,2,3 & 4 CRACKS IN TOP OF CAPS

BENT # 9 , BETWEEN BEAMS #2 , #3 & # 4 CRACKS IN TOP OF CAPS

CONCRETE COLUMN

BENT 2 COLUMN 2 NORTH FACE SMALL SPALLS W/REBAR EXPOSED.

BENT 3 COLUMN 2 SOUTH FACE SMALL SPALL W/REBAR EXPOSED.

BENT 6 COLUMN 1 RT. SIDE MINOR SPALL ON OUTSIDE.

BENT 7 COLUMN 2, MINOR SPALLS W/REBAR

BENT 9 COLUMN 1 & 2 MINOR SPALLS W/REBAR