



Bridge #M2291(Routine)

SH 195 - 01 - 6.43 over SANDY BOIS DE ARC CREEK

Location: 6.45 MI N.E. OF FULTON

Team Lead: Charlie Rogers Inspection Date: September 05, 2018



Latitude:33.68912, Longitude:-93.75270

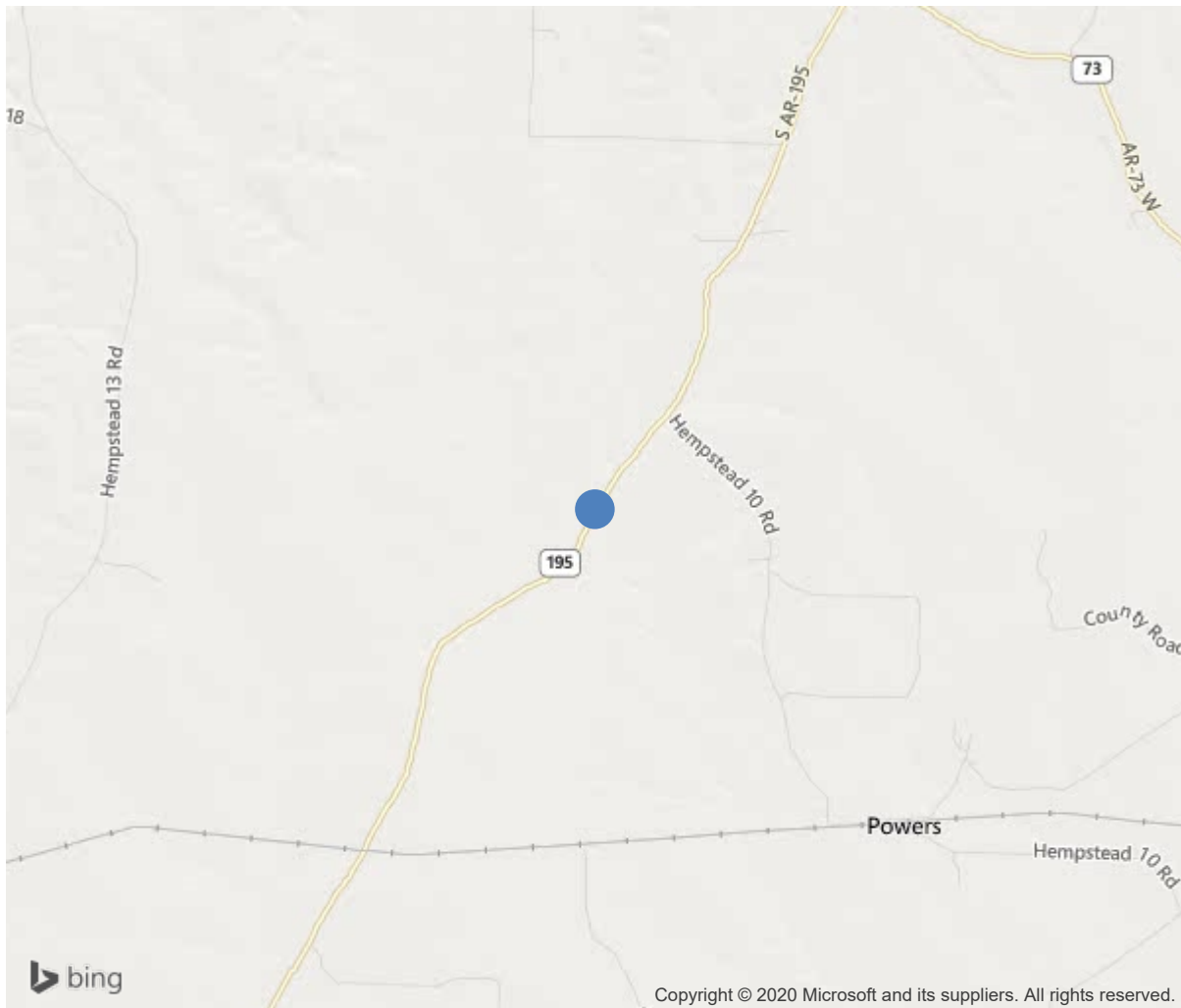
Route:195 Section:01 Log:6.43

Arnold Road ID:29x195x1xA, Arnold Log mile:6.464

District 03, Hempstead County

Owner: 1-State Highway Agency

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33.68912, -93.75270



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| IDENTIFICATION | |
|---|----------------------------------|
| (1) State Names | Arkansas |
| (8) Structure Number | M2291 |
| (5) Inventory Route | 195 |
| (2) Highway Agency District | 03 |
| (3) County Code | 57-Hempstead County, Arkansas |
| (4) Place Code | 0 |
| (6) Features Intersected | SANDY BOIS DE ARC CREEK |
| (7) Facility Carried | SH 195 - 01 - 6.43 |
| (9) Location | 6.45 MI N.E. OF FULTON |
| (11) Mile Point | 6.43 mi |
| (12) Base Highway Network | No |
| (13) LRS Inventory Rte & Subrte | 0000000000 |
| (16) Latitude | 33.68912 |
| (17) Longitude | -93.75270 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| STRUCTURE TYPE AND MATERIAL | |
| (43) Main Structure Type | 122 |
| Material | 1-Concrete |
| Type | 22-Channel beam |
| (44) Approach Structure Type | 00 |
| Material | 0-Other |
| Type | 0-Other |
| (45) No. of Spans in Main Unit | 7 |
| (46) No. of Approach Spans | 0 |
| (107) Deck Structure Type | 2-Concrete Precast Panels |
| (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 | 1967 |
| (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 | 330 |
| (30) Year of ADT | 2018 |
| (109) Truck ADT | 7 % |
| (19) Bypass, Detour Length | 20 mi |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 31 ft |
| (49) Structure Length | 145 ft |
| (50) Curb or Sidewalk Width | |
| Left | 1 ft |
| Right | 1 ft |
| (51) Bridge Roadway Width Curb to Curb | 24 ft |
| (52) Deck Width Out to Out | 25.1 ft |
| (32) Approach Roadway Width (W/Shoulders) | 27.9 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 | 25.6 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 | 7-Rural Major Collector |
| (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 | 0-The inventory route is not part of |
| (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 | 7 |
| (59) Superstructure | 7 |
| (60) Substructure | 6 |
| (61) Channel & Channel Protection | 6 |
| (62) Culverts | N |
| LOAD RATING AND POSTING | |
| (31) Design Load | 0-Other or Unknown |
| (63) Operating Rating Method | 1 |
| (64) Operating Rating | |
| Type | 1-Load Factor(LF) |
| Rating | 51 |
| (65) Inventory Rating Method | 1-Load Factor(LF) |
| (66) Inventory Rating | |
| Type | 7 |
| Rating | 31 |
| (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 | 5 |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 6 |
| (72) Approach Roadway Alignment | 7 |
| (36) Traffic Safety Features | 0111 |
| A) Bridge Railings | 0-Inspected feature does not meet cur |
| B) Transitions | 1-Inspected feature meets currently a |
| C) Approach Guardrail | 1-Inspected feature meets currently a |
| D) Approach Guardrail Ends | 1-Inspected feature meets currently a |
| (113) Scour Critical Bridges | 5-Bridge foundations determined to be |
| PROPOSED IMPROVEMENTS | |
| (75) Type of Work | |
| (76) Length of Structure Improvement | 0 ft |
| (94) Bridge Improvement Cost | \$ 0 |
| (95) Roadway Improvement Cost | \$ 0 |
| (96) Total Project Cost | \$ 0 |
| (97) Year of Improvement Cost Estimate | 0 |
| (114) Future ADT | 412 |
| (115) Year of Future ADT | 2028 |
| INSPECTIONS | |
| (90) Inspection Date | 201809 |
| (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 |

| | |
|---------------------|---------------|
| SUFFICIENCY RATING | 81.4 |
| STATUS (SD/FO/None) | Not Deficient |



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| ELEM | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|------|--------------------------------------|-------|-------|------|-----|-----|-----|
| 16 | Reinforced Concrete Top Flange | SF | 3625 | 3625 | 0 | 0 | 0 |
| 510 | Wearing Surfaces | SF | 3495 | 3495 | 0 | 0 | 0 |
| 110 | Reinforced Concrete Open Girder/Beam | LF | 1160 | 1125 | 17 | 18 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 17 | 0 | 17 | 0 | 0 |
| 1090 | Exposed Rebar | LF | 18 | 0 | 0 | 18 | 0 |
| 218 | Other Abutment | LF | 56 | 56 | 0 | 0 | 0 |
| 228 | Timber Pile | EA | 30 | 30 | 0 | 0 | 0 |
| 234 | Reinforced Concrete Pier Cap | LF | 131 | 121 | 10 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 10 | 0 | 10 | 0 | 0 |
| 330 | Metal Bridge Railing | LF | 290 | 290 | 0 | 0 | 0 |



SS



Underside of deck typical all spans



Deck



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Maintenance Needs



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Inspection Comments

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Deck Notes

9/5/2018...AL, SS, Deck, Def. Photos taken. Asphalt unraveling at bent 6 joint...

Superstructure Notes

NOTE : TIMBER PILE NUMBER 2 AT BENT 2 IS A 10" PILE AND ONLY HAS A 2" CORE REMAINING. THIS PILE HAS BEEN UNDER GROUND BUT RECENT RAINFALL HAS EXPOSED MORE OF THE PILE WHERE THE DEF. WAS FOUND...REPAIRED TIMBER PILES @ BTS. #6, #7, & #8 IN 2002. REPAIRED TIMBER PILES @ BTS. #3, #4, & #5 IN 2012...
