



Latitude:34.34044, Longitude:-92.91106

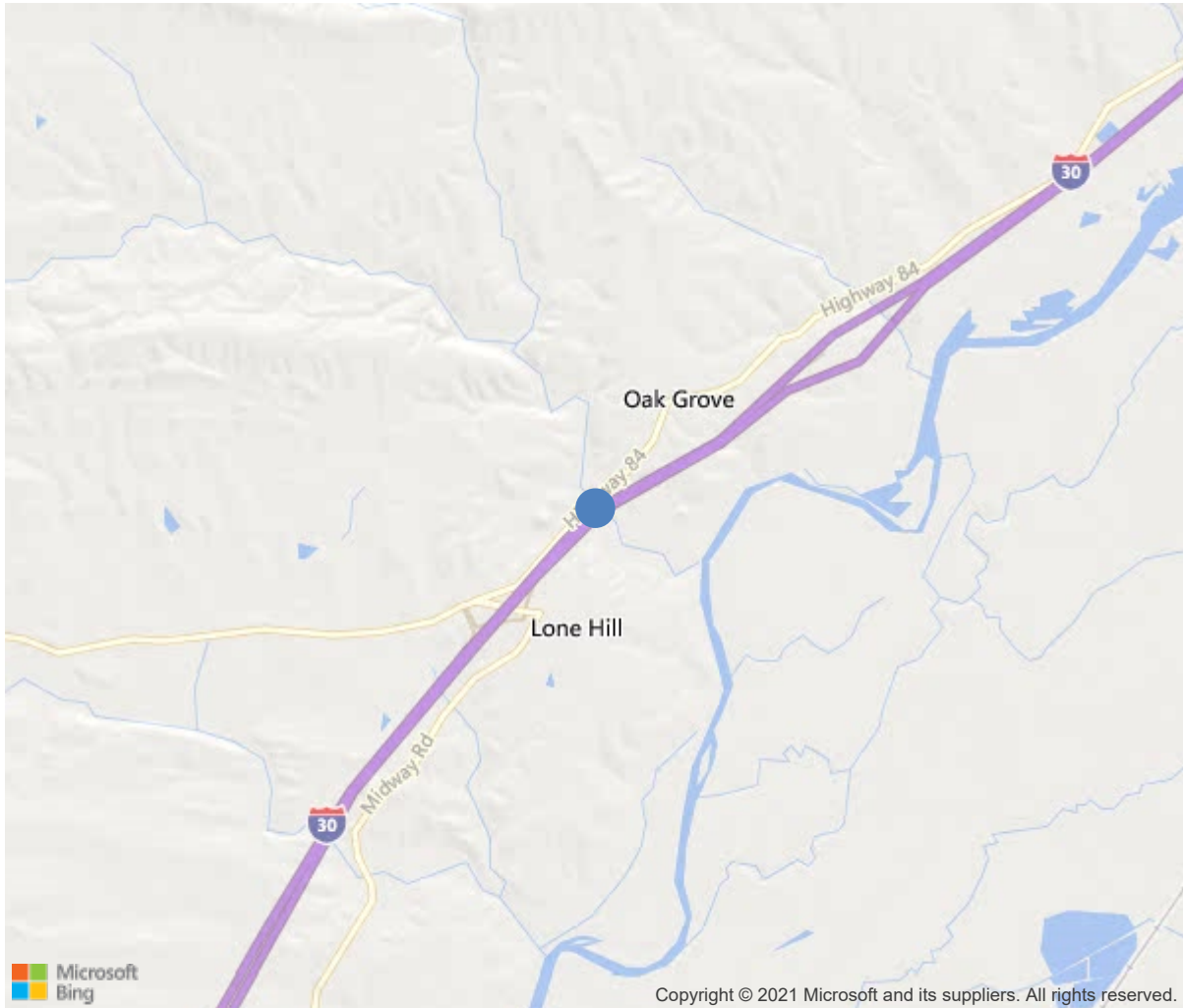
Route:30 Section:21 Log:91.76

Arnold Road ID:30x30x21xB, Arnold Log mile:51.201

District 06, Hot Spring County

Owner: 1-State Highway Agency

6.24 MI SW OF SH 270



34.34044, -92.91106



Bridge #A5025(Routine)
I-30 WB Log 91.76 over Blakley Crk, Acme Pit Rd
Location: 6.24 MI SW OF SH 270

Team Lead: Bryan Saunders Inspection Date: February 25, 2020

| IDENTIFICATION | |
|---|--|
| (1) State Names | Arkansas |
| (8) Structure Number | A5025 |
| (5) Inventory Route | 30 |
| (2) Highway Agency District | 06 |
| (3) County Code | 59-Hot Spring County, Arkansas |
| (4) Place Code | 0 |
| (6) Features Intersected | Blakley Crk, Acme Pit Rd |
| (7) Facility Carried | I-30 WB Log 91.76 |
| (9) Location | 6.24 MI SW OF SH 270 |
| (11) Mile Point | 91.76 mi |
| (12) Base Highway Network | Yes |
| (13) LRS Inventory Rte & Subrte | 0000030210 |
| (16) Latitude | 34.340439 |
| (17) Longitude | -92.911064 |
| (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 | 6 |
| (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 | 1967 |
| (106) Year Reconstructed | 2001 |
| (42) Type of Service | 16 |
| On | 1-Highway |
| Under | 6-Highway-waterway |
| (28) Lane | |
| On | 2 |
| Under | 2 |
| (29) Average Daily Traffic | 46950 |
| (30) Year of ADT | 2014 |
| (109) Truck ADT | 45 % |
| (19) Bypass, Detour Length | 1 mi |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 47 ft |
| (49) Structure Length | 284 ft |
| (50) Curb or Sidewalk Width | |
| Left | 0 ft |
| Right | 0 ft |
| (51) Bridge Roadway Width Curb to Curb | 40 ft |
| (52) Deck Width Out to Out | 43 ft |
| (32) Approach Roadway Width (W/Shoulders) | 40 ft |
| (33) Bridge Median | 0-No median |
| (34) Skew | 7 Deg |
| (35) Structure Flared | No flare |
| (10) Inventory Route Min Vert Clear | 99.99 ft |
| (47) Inventory Route Total Horiz Clear | 41 ft |
| (53) Min Vert Clear Over Bridge Rdwy | 99.99 ft |
| (54) Min Vert Underclear | 17.83 ft |
| Ref: | |
| (55) Min Lat Underclear RT | 0 ft |
| Ref: | |
| (56) Min Lat Underclear LT | 8.1 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 | 1 |
| (26) Functional Class | 1-Rural Principal Arterial - Int |
| (100) Defense Highway | 1-The inventory route is on a In |
| (101) Parallel Structure | L-The left structure of parallel |
| (102) Direction of Traffic | 1 - 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 | 6 |
| (59) Superstructure | 7 |
| (60) Substructure | 6 |
| (61) Channel & Channel Protection | 7 |
| (62) Culverts | N |
| LOAD RATING AND POSTING | |
| (31) Design Load | 6-MS 18+Mod / HS 20+Mod |
| (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 | 6 |
| 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 | 7 |
| (69) Clearances, Vertical/Horizontal | 2 |
| (71) Waterway Adequacy | 8 |
| (72) Approach Roadway Alignment | 8 |
| (36A) Bridge Railings | 1-Inspected feature meets currently a |
| (36B) Transitions | 1-Inspected feature meets currently a |
| (36C) Approach Guardrail | 1-Inspected feature meets currently a |
| (36D) Approach Guardrail Ends | 1-Inspected feature meets currently a |
| (113) Scour Critical Bridges | 8-Bridge foundations determined to be |
| PROPOSED IMPROVEMENTS | |
| (75) Type of Work | Replacement of bridge or other |
| (76) Length of Structure Improvement | 320 ft |
| (94) Bridge Improvement Cost | \$ 0 |
| (95) Roadway Improvement Cost | \$ 190 |
| (96) Total Project Cost | \$ 893 |
| (97) Year of Improvement Cost Estimate | 2000 |
| (114) Future ADT | 17465 |
| (115) Year of Future ADT | 2028 |
| INSPECTIONS | |
| (90) Inspection Date | 02/2020 |
| (91) Frequency | 24 Months |
| (92) Critical Feature Inspection | Done Freq. (Mon) Date |
| A: Fracture Critical Detail | No |
| B: Underwater Inspection | No |
| C: Other Special Inspection | No |



Bridge #A5025(Routine)
I-30 WB Log 91.76 over Blakley Crk, Acme Pit Rd

Location: 6.24 MI SW OF SH 270

Team Lead: Bryan Saunders, Inspection Date: February 25, 2020

| ELEM | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|-------|---|-------|-------|------|-------|------|-----|
| 12 | Reinforced Concrete Deck | SF | 12212 | 8208 | 2564 | 1440 | 0 |
| 1080 | Delamination/Spall/Patched Area | SF | 2 | 0 | 2 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 72 | 0 | 72 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 3930 | 0 | 2490 | 1440 | 0 |
| (12) | Small spall and missing plowable marker in span 2. Longitudinal and transverse cracks up to and above .050", in all spans. Overhangs have cracks with efflorescence. (12-1080) Span 2 right lane, 3x3 area of spall delamination. | | | | | | |
| 107 | Steel Open Girder/Beam | LF | 1692 | 1692 | 0 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 12619 | 0 | 12619 | 0 | 0 |
| 3430 | Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings) | SF | 12619 | 0 | 12619 | 0 | 0 |
| (107) | all beams have granular texture (107-515) all beams have granular texture | | | | | | |
| 202 | Steel Column | EA | 7 | 0 | 7 | 0 | 0 |
| 1000 | Corrosion | EA | 7 | 0 | 7 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 600 | 434 | 150 | 16 | 0 |
| 3440 | Effectiveness (Steel Protective Coatings) | SF | 166 | 0 | 150 | 16 | 0 |
| 205 | Reinforced Concrete Column | EA | 16 | 8 | 4 | 4 | 0 |
| 1080 | Delamination/Spall/Patched Area | EA | 2 | 0 | 0 | 2 | 0 |
| 1090 | Exposed Rebar | EA | 2 | 0 | 0 | 2 | 0 |
| 1190 | Abrasion/Wear (PSC/RC) | EA | 4 | 0 | 4 | 0 | 0 |
| (205) | Bt. 2, column 3, has a small delamination. Bt. 3 & 4, columns 2 & 3 have light abrasion. Bt. 4, column 3 has a delamination. Bt. 5, columns 2 & 3 have spalls with exposed rebar. | | | | | | |
| 210 | Reinforced Concrete Pier Wall | LF | 60 | 60 | 0 | 0 | 0 |
| 215 | Reinforced Concrete Abutment | LF | 88 | 76 | 12 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | LF | 12 | 0 | 12 | 0 | 0 |

Location: 6.24 MI SW OF SH 270

Team Lead: Bryan Saunders, **Inspection Date:** February 25, 2020

| ELEM | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|------------------------------------|-------|-------|------|-----|-----|-----|
| (215) | | | | | | | |
| Bents 1 and 7 have cracks with efflorescence in the back wall. | | | | | | | |
| 225 | Steel Pile | EA | 7 | 0 | 7 | 0 | 0 |
| 1000 | Corrosion | EA | 7 | 0 | 7 | 0 | 0 |
| (225) | | | | | | | |
| Freckling rust on all pile. | | | | | | | |
| 234 | Reinforced Concrete Pier Cap | LF | 205 | 201 | 0 | 0 | 4 |
| 7000 | Damage | LF | 4 | 0 | 0 | 0 | 4 |
| 301 | Pourable Joint Seal | LF | 121 | 64 | 47 | 6 | 4 |
| 2320 | Seal Adhesion | LF | 53 | 0 | 47 | 6 | 0 |
| 2330 | Seal Damage | LF | 4 | 0 | 0 | 0 | 4 |
| (301) | | | | | | | |
| Sections at all joints have loss of adhesion, seal at Bt. 4 has 4 feet of damage. | | | | | | | |
| 310 | Elastomeric Bearing | EA | 48 | 48 | 0 | 0 | 0 |
| 321 | Reinforced Concrete Approach Slab | SF | 2304 | 2304 | 0 | 0 | 0 |
| 331 | Reinforced Concrete Bridge Railing | LF | 564 | 487 | 77 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 77 | 0 | 77 | 0 | 0 |
| (331) | | | | | | | |
| Vertical cracks in both walls. | | | | | | | |



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Location: 6.24 MI SW OF SH 270

Team Lead: Bryan Saunders **Inspection Date:** February 25, 2020

Maintenance Needs

Date Reported: 03/16/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Deck all spans have unsealed longitudinal and transverse cracks up to 1/8".

Remarks



Span 6, 1/8" cracks that have spalled at the top.



Span 6 left lane, large transverse cracks.

Date Reported: 02/25/2020
Priority: C - Important
Type of Work: Clean
Status: Open
Component: Superstructure

Deficiency Description

Vines growing on bents 2-6 columns and cap and small trees growing under the bridge in span 4.

Remarks



Bent 4, vines on column and cap
Span 4, trees growing under bridge.



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Location: 6.24 MI SW OF SH 270

Team Lead: Bryan Saunders **Inspection Date:** February 25, 2020

Inspection Comments

job b60115 dwg 39822

Logged east bound.