



Latitude:33.94162, Longitude:-92.11783

Route:114 Section:00 Log:3.129

Arnold Road ID:13x114x0xA, Arnold Log mile:3.121

District 07, 25 - Cleveland County

Owner: 1 - State Highway Agency

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

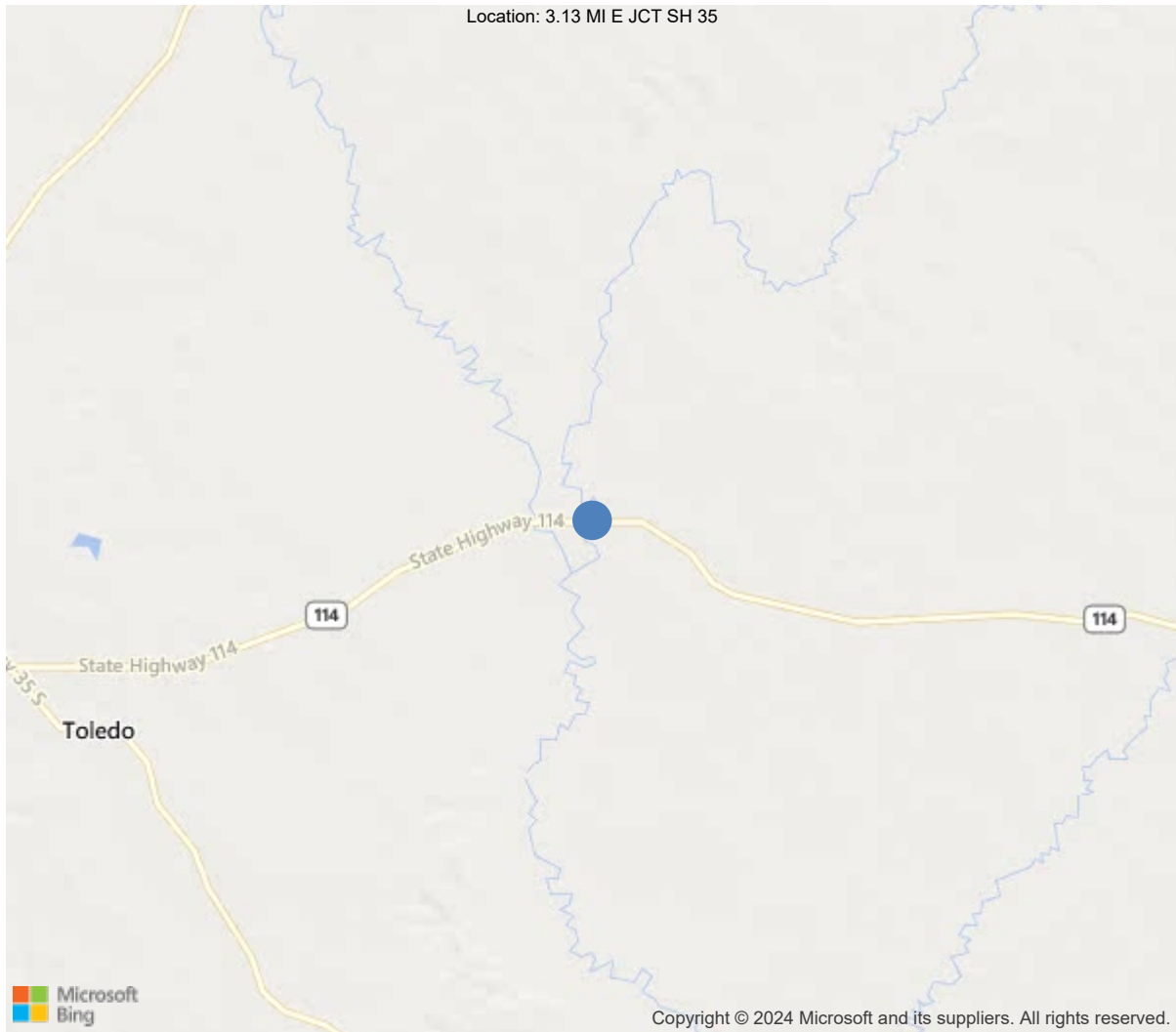
70 - Bridge Posting: 5 - Equal to or above legal loads

| Legal Load | Calculated Capacity | Beginning of Bridge Sign Current Value | End of Bridge Sign Current Value |
|------------------|---------------------|----------------------------------------|----------------------------------|
| Code 4 (22 Tons) | 40 | | |
| Code 9 (31 Tons) | 45 | | |
| Code 5 (40 Tons) | 53 | | |

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



33.94162, -92.11783



Asset #06072(Routine)

SH 114 S-0 LM 3.12 over BRUSHY CREEK

Location: 3.13 MI E JCT SH 35

Team Lead: Rickie Bratton, Inspection Date: 09/12/2023

| IDENTIFICATION | |
|-------------------------------------------|------------------------------------------|
| (1) State Names | 5 - Arkansas |
| (8) Structure Number | 06072 |
| (5) Inventory Route | 1 |
| (2) Highway Agency District | 07 - District 07 |
| (3) County Code | 25 - Cleveland County |
| (4) Place Code | 0 |
| (6) Features Intersected | BRUSHY CREEK |
| (7) Facility Carried | SH 114 S-0 LM 3.12 |
| (9) Location | 3.13 MI E JCT SH 35 |
| (11) Mile Point | 3.129 mi |
| (12) Base Highway Network | No |
| (13) LRS Inventory Rte & Subrte | 0000000000 |
| (16) Latitude | 33.94162 |
| (17) Longitude | -92.11783 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| STRUCTURE TYPE AND MATERIAL | |
| (43) Main Structure Type | 11 |
| Material | 1 - Concrete |
| Type | 1 - Slab |
| (44) Approach Structure Type | 00 |
| Material | 0 - Other |
| Type | 0 - Other |
| (45) No. of Spans in Main Unit | 4 |
| (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 pl |
| Type of Membrane | 0 - None |
| Type of Deck Protection | 0 - None |
| AGE AND SERVICE | |
| (27) Year Built | 1986 |
| (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 | 700 |
| (30) Year of ADT | 2018 |
| (109) Truck ADT | 1 % |
| (19) Bypass, Detour Length | 16 mi |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 35 ft |
| (49) Structure Length | 140 ft |
| (50) Curb or Sidewalk Width | |
| Left | 0 ft |
| Right | 0 ft |
| (51) Bridge Roadway Width Curb to Curb | 30.2 ft |
| (52) Deck Width Out to Out | 33 ft |
| (32) Approach Roadway Width (W/Shoulders) | 34.1 ft |
| (33) Bridge Median | 0 - No median |
| (34) Skew | 0 Deg |
| (35) Structure Flared | 0 - No flare |
| (10) Inventory Route Min Vert Clear | 99.99 ft |
| (47) Inventory Route Total Horiz Clear | 31.2 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 w |
| (111) Pier Protection | 1 - Navigation protection not |
| (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 |
| (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 |
| (20) Toll | 3 - On free road. The structure |
| (21) Maintain | 1 - State Highway Agency |
| (22) Owner | 1 - State Highway Agency |
| (37) Historical Significance | 5 - Bridge is not eligible for |
| CONDITION | |
| (58) Deck | 7 |
| (59) Superstructure | 7 |
| (60) Substructure | 7 |
| (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 | |
| 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 | |
| (68) Deck Geometry | 6 |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 8 |
| (72) Approach Roadway Alignment | 8 |
| (36A) Bridge Railings | 1 - Inspected feature meets current |
| (36B) Transitions | 1 - Inspected feature meets current |
| (36C) Approach Guardrail | 1 - Inspected feature meets current |
| (36D) Approach Guardrail Ends | 1 - Inspected feature meets current |
| (113) Scour Critical Bridges | 5 - Bridge foundations determined t |
| 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 | |
| (114) Future ADT | 1100 |
| (115) Year of Future ADT | 2028 |

| INSPECTIONS * | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------|
| (90) Inspection Date | 09/12/2023 | | |
| (91) Frequency | 24 | | |
| (92) Critical Feature Inspection | Done | Freq. (Mon) | Date |
| A: Fracture Critical Detail | No | | |
| B: Underwater Inspection | No | | |
| C: Other Special Inspection | No | | |
| * The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted. | | | |



General Observation

-

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Concrete Deck- Joint material is tattered and losing bond. Leaking.
Minor Cracks

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

4 span Slab, minor Efflorescence.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Concrete sub- Slope erosion.

A-46 - Asset Files

-

A-63 - Missing/Incorrect Log Mile Signage (Y)

Both ends of structure missing log mile signs.



Asset #06072(Routine)

SH 114 S-0 LM 3.12 over BRUSHY CREEK

Location: 3.13 MI E JCT SH 35

Team Lead: Rickie Bratton, Inspection Date: 09/12/2023

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|--------------------------------------------------------------|------------------------------------|-------|-------|------|------|-----|-----|
| 38 | RC Slab | SF | 4598 | 3192 | 1406 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 20 | 0 | 20 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 924 | 0 | 924 | 0 | 0 |
| 1190 | Abrasion/Wear (PSC/RC) | SF | 462 | 0 | 462 | 0 | 0 |
| (38) Slab edges have efflorescent cracks under the parapets. | | | | | | | |
| 215 | Reinforced Concrete Abutment | LF | 79 | 64 | 15 | 0 | 0 |
| 6000 | Scour | LF | 15 | 0 | 15 | 0 | 0 |
| (215) Slope erosion abutment 1 | | | | | | | |
| 227 | Reinforced Concrete Pile | EA | 18 | 0 | 18 | 0 | 0 |
| 1190 | Abrasion/Wear (PSC/RC) | EA | 18 | 0 | 18 | 0 | 0 |
| 234 | Reinforced Concrete Pier Cap | LF | 99 | 93 | 6 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 6 | 0 | 6 | 0 | 0 |
| (1080-234) Bent 3, back, delam over piles 2 and 4. | | | | | | | |
| 301 | Pourable Joint Seal | LF | 99 | 0 | 99 | 0 | 0 |
| 2310 | Leakage | LF | 99 | 0 | 99 | 0 | 0 |
| (301) Tattered and losing bond. Leaking. | | | | | | | |
| 331 | Reinforced Concrete Bridge Railing | LF | 280 | 280 | 0 | 0 | 0 |



Asset #06072(Routine)

SH 114 S-0 LM 3.12 over BRUSHY CREEK

Location: 3.13 MI E JCT SH 35

Team Lead: Rickie Bratton, Inspection Date: 09/12/2023

Deck

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | | | | |
|--------------------------------------------------------------|-----------------------------|-------|-------|------|------|-----|-----|
| | | | | CS1 | CS2 | CS3 | CS4 |
| 38 | RC Slab | SF | 4598 | 3192 | 1406 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 20 | 0 | 20 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 924 | 0 | 924 | 0 | 0 |
| 1190 | Abrasion/Wear (PSC/RC) | SF | 462 | 0 | 462 | 0 | 0 |
| (38) Slab edges have efflorescent cracks under the parapets. | | | | | | | |

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Comment: Concrete Deck- Joint material is tattered and losing bond. Leaking.
Minor Cracks



Asset #06072(Routine)

SH 114 S-0 LM 3.12 over BRUSHY CREEK

Location: 3.13 MI E JCT SH 35

Team Lead: Rickie Bratton, Inspection Date: 09/12/2023

Superstructure

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | | | | |
|----------|-------------|-------|-------|-----|-----|-----|-----|
| | | | | CS1 | CS2 | CS3 | CS4 |

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Comment: 4 span Slab, minor Efflorescence.



Asset #06072(Routine)

SH 114 S-0 LM 3.12 over BRUSHY CREEK

Location: 3.13 MI E JCT SH 35

Team Lead: Rickie Bratton, Inspection Date: 09/12/2023

Substructure

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|----------------------------------------------------|---------------------------------|-------|-------|-----|-----|-----|-----|
| 215 | Reinforced Concrete Abutment | LF | 79 | 64 | 15 | 0 | 0 |
| 6000 | Scour | LF | 15 | 0 | 15 | 0 | 0 |
| (215) Slope erosion abutment 1 | | | | | | | |
| 227 | Reinforced Concrete Pile | EA | 18 | 0 | 18 | 0 | 0 |
| 1190 | Abrasion/Wear (PSC/RC) | EA | 18 | 0 | 18 | 0 | 0 |
| 234 | Reinforced Concrete Pier Cap | LF | 99 | 93 | 6 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 6 | 0 | 6 | 0 | 0 |
| (1080-234) Bent 3, back, delam over piles 2 and 4. | | | | | | | |

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Comment: Concrete sub- Slope erosion.



Span 1 longitudinal cracks up to 0.020". Common all spans.



All corners of slabs over bents have map cracking.



Bent 3 joint seal loss of bond.



Elevation



Deck overview



Bent 4, minor erosion around all piles. 1ft deep



Soffit overview span 3



Channel



Scour hole around pile 2 Bt 2, 3ft deep, 5ft diameter



Missing log mile



Approach roadway Eastbound



Profile



Underside span 2



Deck



Roadway



Delam, bent 3, back face.



Soffit overview.



Approach roadway.



Deck overview.



Elevation.

Maintenance Needs

Date Reported: 09/19/2023

Priority: D- Routine

Type of Work: Approach Leveling/Maintenance

Status: Open

Component: Approach

Deficiency Description

West end of westbound lane has 1" of roadway settlement

Remarks



West end of westbound lane has 1" of roadway settlement



Routine Maintenance

Check Box Maintenance Items

| Type of Maintenance | Is recommended? |
|------------------------------------------|-----------------|
| A-54 - Sealable Deck Cracks | |
| A-55 - Deck Washing Needed | |
| A-56 - Joint Cleaning/Flushing Needed | |
| A-57 - Beam End and Bearing Paint Needed | |
| A-58 - Cap Cleaning/Flushing Needed | |
| A-59 - Joint Repair Needed | |
| A-60 - Full Beam Painting Needed | |
| A-61 - Polymer Overlay Advised | |
| A-62 - Hydro and LMC Advised | |
| A-63 Missing/Incorrect Log Mile Signage | Yes |
| A-64 - Vegetation Removal Requested | |

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

A-57 - Beam End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage (Yes)

Both ends of structure missing log mile signs.



Missing log mile



Asset #06072(Routine)

SH 114 S-0 LM 3.12 over BRUSHY CREEK

Location: 3.13 MI E JCT SH 35

Team Lead: Rickie Bratton, **Inspection Date:** 09/12/2023

A-64 - Vegetation Removal Requested



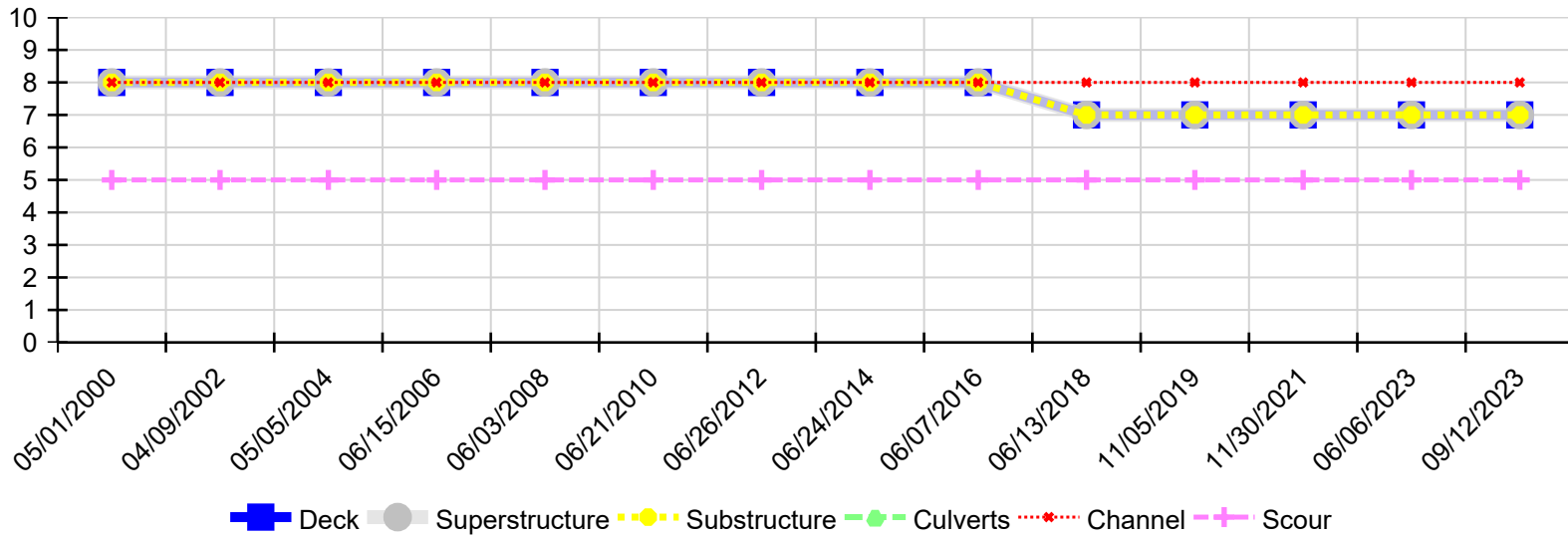
Asset #06072(Routine)

SH 114 S-0 LM 3.12 over BRUSHY CREEK

Location: 3.13 MI E JCT SH 35

Team Lead: Rickie Bratton, Inspection Date: 09/12/2023

Condition History



| Inspection Date | Deck | Superstructure | Substructure | Culverts | Channel | Scour |
|-----------------|------|----------------|--------------|----------|---------|-------|
| 09/12/2023 | 7 | 7 | 7 | N | 8 | 5 |
| 06/06/2023 | 7 | 7 | 7 | N | 8 | 5 |
| 06/06/2023 | 7 | 7 | 7 | N | 8 | 5 |
| 11/30/2021 | 7 | 7 | 7 | N | 8 | 5 |
| 11/05/2019 | 7 | 7 | 7 | N | 8 | 5 |
| 06/13/2018 | 7 | 7 | 7 | N | 8 | 5 |
| 06/07/2016 | 8 | 8 | 8 | N | 8 | 5 |
| 06/24/2014 | 8 | 8 | 8 | N | 8 | 5 |
| 06/26/2012 | 8 | 8 | 8 | N | 8 | 5 |
| 06/21/2010 | 8 | 8 | 8 | N | 8 | 5 |
| 06/03/2008 | 8 | 8 | 8 | N | 8 | 5 |
| 06/15/2006 | 8 | 8 | 8 | N | 8 | 5 |
| 05/05/2004 | 8 | 8 | 8 | N | 8 | 5 |
| 04/09/2002 | 8 | 8 | 8 | N | 8 | 5 |
| 05/01/2000 | 8 | 8 | 8 | N | 8 | 5 |