



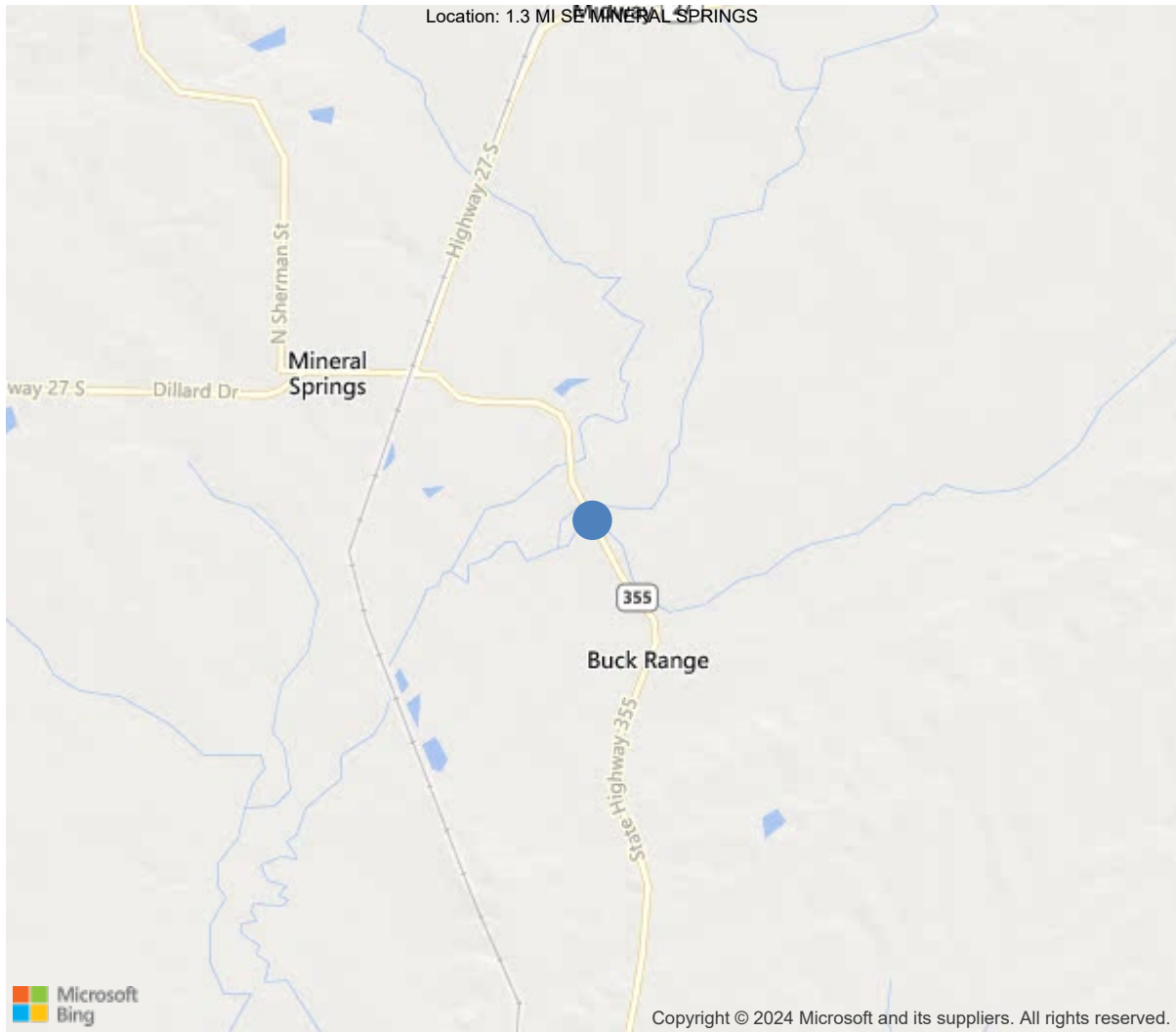
Latitude:33.86445, Longitude:-93.89616

Route:355 Section:01 Log:1.37

Arnold Road ID:31x355x1xA, Arnold Log mile:1.366

District 03, 61 - Howard County

Owner: 1 - State Highway Agency



33.86445, -93.89616



Asset #02928(Routine)

SH 355 - 01-1.37 over BRUSHY CREEK

Location: 1.3 MI SE MINERAL SPRINGS

Team Lead: John King, Inspection Date: 04/07/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02928
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	61 - Howard County
(4) Place Code	0
(6) Features Intersected	BRUSHY CREEK
(7) Facility Carried	SH 355 - 01-1.37
(9) Location	1.3 MI SE MINERAL SPRINGS
(11) Mile Point	1.37 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.864449
(17) Longitude	-93.896156
(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	1954
(106) Year Reconstructed	1985
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	3100
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	22 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	112 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	32.2 ft
(52) Deck Width Out to Out	34.9 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	33.1 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 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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	48
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	29
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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	0
(114) Future ADT	3377
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/07/2022		
(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

4/17/2018 AL,SS,DECK PHOTOS TAKEN PER THIS INSPECTION.....4/7/2020...AL, Elevation, Deck photos taken. Soundings taken this inspection...04/7/2022. Alignment and Elevation photos taken per this inspection.

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Joints: NEED RESEALED

Underside of Deck: SLAB CONSTRUCTION JOINTS WHERE DECK WAS WIDENED LONGITUDINAL CRACKS WITH EFFLORESCENCE LEAKAGE AT CONSTRUCTION JOINTS.....4/7/2020...Dropped deck to a 6 due to cracking, efflorescence, delams on top and bottom of deck....04/2022... little to no change in condition per this inspection

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Girders/Beams: SLAB BRIDGE.....4/7/2020...Dropped super to a 6 to match deck rating... 04/2022. Little to no change in condition per this inspection.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Other: SEE PLANS # 03452-- PILE 2 & 3 ARE BATTER PILES

Pier Cap: BENTS 2,3,4 spalls,rebar exposed

04/2022... little to no change in condition per this inspection.



Asset #02928(Routine)

SH 355 - 01-1.37 over BRUSHY CREEK

Location: 1.3 MI SE MINERAL SPRINGS

Team Lead: John King, Inspection Date: 04/07/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3908	3669	15	224	0
1120	Efflorescence/Rust Staining	SF	224	0	0	224	0
1130	Cracking (RC and Other)	SF	75	60	15	0	0
(38) CONSTRUCTION JOINTS WHERE DECK WAS WIDENED LONGITUDINAL CRACKS WITH EFFLORESCENCE LEAKAGE AT CONSTRUCTION JOINTS.							
215	Reinforced Concrete Abutment	LF	83	83	0	0	0
227	Reinforced Concrete Pile	EA	12	12	0	0	0
234	Reinforced Concrete Pier Cap	LF	175	158	3	14	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	8	0	0	8	0
1120	Efflorescence/Rust Staining	LF	6	0	0	6	0
(234) CONCRETE CAPS----- BENT 2 BOTTOM OF CAP HAS SEVERAL SPALLS WITH REBAR EXPOSED WITH SECTION LOSS, END OF CAP SMALL SPALL----- BENT 3 BOTTOM OF CAP HAS MINOR SPALLS WITH REBAR EXPOSED---BENT 4 CAP HAS A LARGE SPALL AND SMALL SPALL WITH REBAR EXPOSED							
301	Pourable Joint Seal	LF	161	17	0	144	0
2310	Leakage	LF	80	0	0	80	0
2350	Debris Impaction	LF	64	0	0	64	0
321	Reinforced Concrete Approach Slab	SF	756	756	0	0	0
(321) Asphalt over approach slabs good condition							
331	Reinforced Concrete Bridge Railing	LF	210	210	0	0	0



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Deck

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Superstructure

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				CS1	CS2	CS3	CS4

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Comment: Girders/Beams: SLAB BRIDGE.....4/7/2020...Dropped super to a 6 to match deck rating... 04/2022. Little to no change in condition per this inspection.



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Substructure

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Comment: Other: SEE PLANS # 03452-- PILE 2 & 3 ARE BATTER PILES

Pier Cap: BENTS 2,3,4 spalls,rebar exposed

04/2022... little to no change in condition per this inspection.



04/2022... elevation



04/2022... elevation



04/2022... alignment



04/2022... alignment



Deck



Underside of deck typical all spans



Alignment



DECK PHOTO



BOTTOM OF DECK TYPICAL ALL SPANS.



SS



AL



Elevation



Sealed deck cracks



04/2022... deck photo typical all span



04/2022... deck cracking running entire length of bridge both sides



04/2022... joint photo typical all spans



04/2022... underside of deck typical all spans



04/2022.. joints leaking along longitudinal crack with efflorescence



04/2022.. concrete caps and piles



04/2022... spalls in caps at various. Locations



04/2022... efflorescence and cracking on caps various locations



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SH 355 - 01-1.37 over BRUSHY CREEK

Location: 1.3 MI SE MINERAL SPRINGS

Team Lead: John King, Inspection Date: 04/07/2022

Maintenance Needs

Date Reported: 06/15/2012

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Monitor

Component: Element

Deficiency Description

CONSTRUCTION JOINTS AT BENTS 2, 3, AND 4, JOINTS NEED TO BE CLEANED OUT.

Remarks



CONSTRUCTION JOINTS AT BENTS 2, 3, AND 4
JOINTS NEED TO BE CLEANED OUT AND NEW D-200
ADDED

Maintenance Needs

Date Reported: 06/15/2012

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Assigned

Component:

Deficiency Description

CONSTRUCTION JOINTS WHERE DECK WAS WIDENED
LONGITUDINAL CRACKS WITH EFFLORESCENCE LEAKAGE
AT CONSTRUCTION JOINTS.

Remarks



CONSTRUCTION JOINTS WHERE DECK WAS
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CONSTRUCTION JOINTS WHERE DECK WAS
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LEAKAGE
AT CONSTRUCTION JOINTS.

Maintenance Needs

Date Reported: 06/15/2012

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

CONCRETE CAPS----- BENT 2 BOTTOM OF CAP HAS SEVERAL SPALLS WITH REBAR EXPOSED WITH SECTION LOSS, END OF CAP SMALL SPALL---- BENT 3 BOTTOM OF CAP HAS MINOR SPALLS WITH REBAR EXPOSED--- BENT 4 CAP HAS A LARGE SPALL AND SMALL SPALL WITH REBAR EXPOSED

Remarks



BENT 3 BOTTOM OF CAP HAS MINOR SPALLS WITH REBAR EXPOSED



BENT 4 CAP HAS A LARGE SPALL AND SMALL SPALL WITH REBAR EXPOSED



End cap BT 2 small spall



CONCRETE CAPS
BENT 2 BOTTOM OF CAP HAS SEVERAL SPALLS
WITH REBAR EXPOSED

Maintenance Needs

Date Reported: 04/08/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Substructure

Deficiency Description

Hole under End Bent LT side approximately 5 ft. under cap

Remarks



Hole under End Bent LT side



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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	
A-64 - Vegetation Removal Requested	



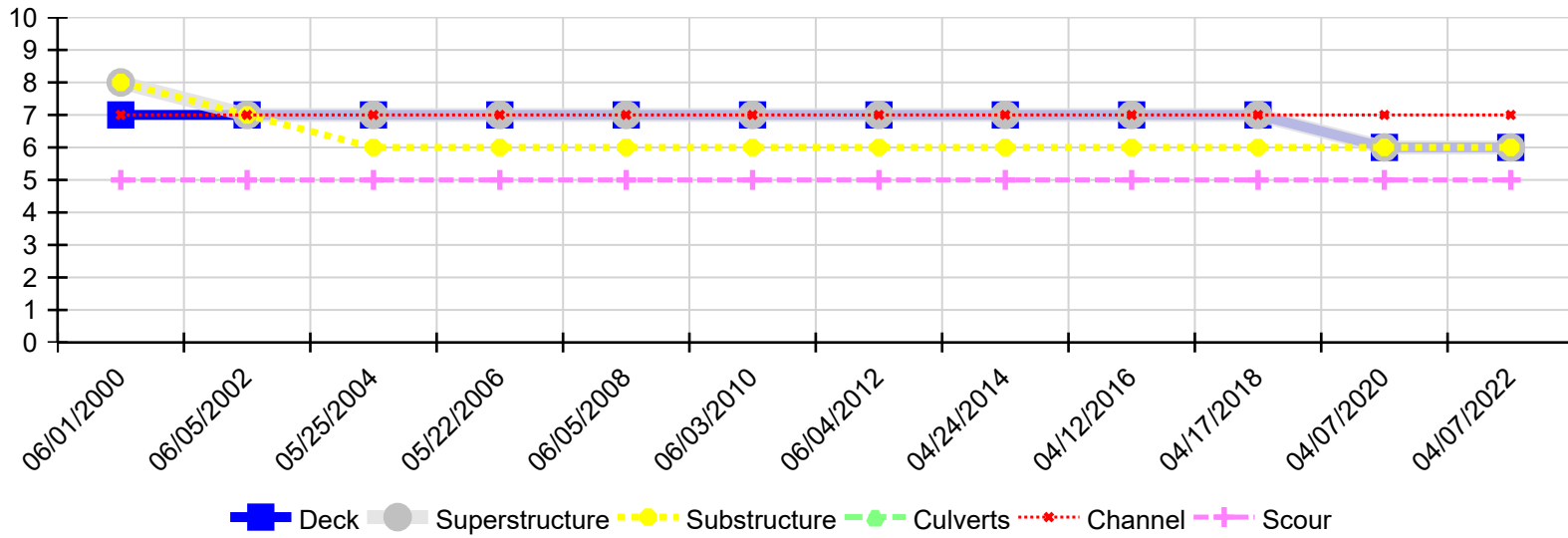
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/07/2022	6	6	6	N	7	5
04/07/2020	6	6	6	N	7	5
04/17/2018	7	7	6	N	7	5
04/12/2016	7	7	6	N	7	5
04/24/2014	7	7	6	N	7	5
06/04/2012	7	7	6	N	7	5
06/03/2010	7	7	6	N	7	5
06/05/2008	7	7	6	N	7	5
05/22/2006	7	7	6	N	7	5
05/25/2004	7	7	6	N	7	5
06/05/2002	7	7	7	N	7	5
06/01/2000	7	8	8	N	7	5