



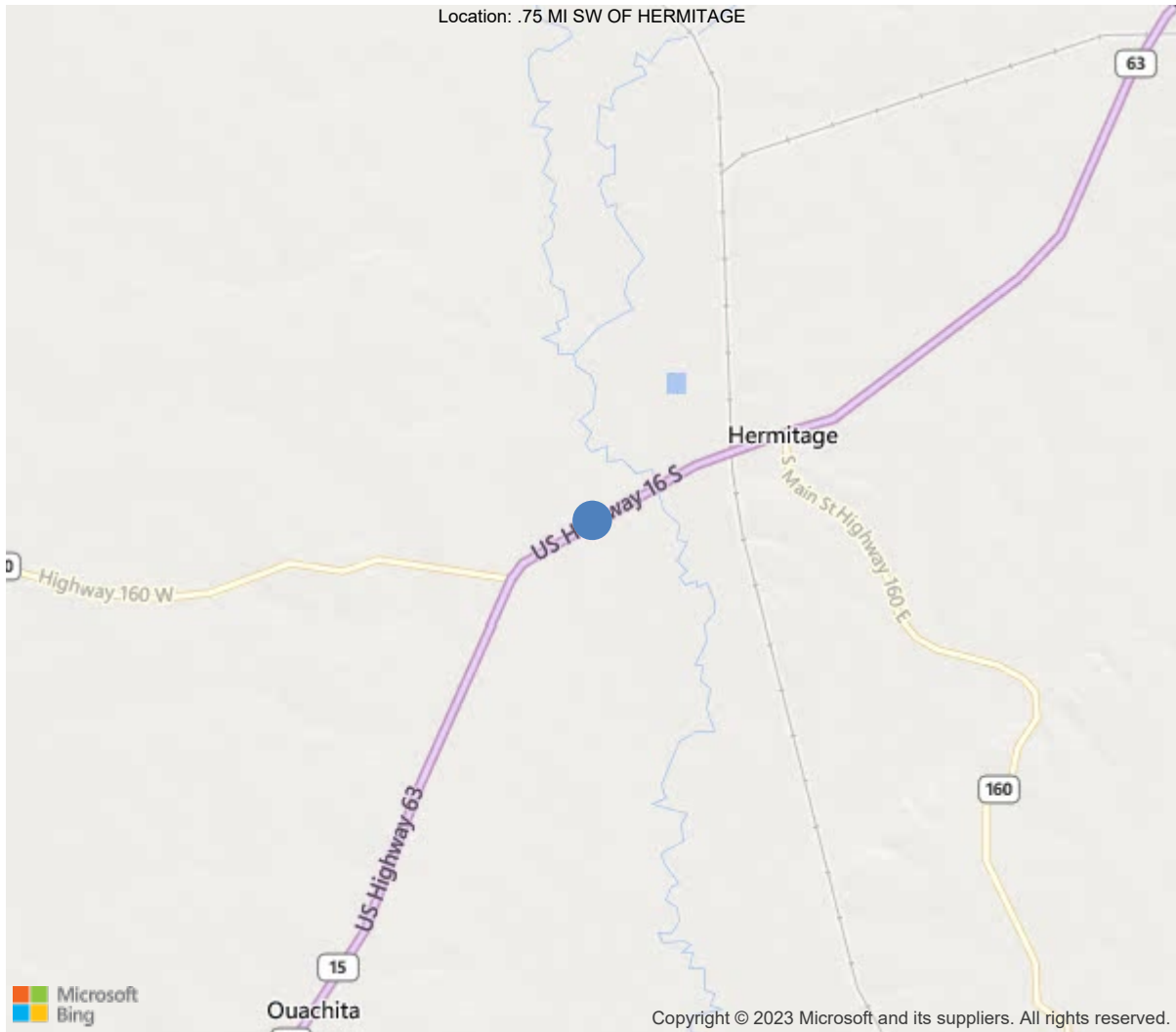
Latitude:33.43897, Longitude:-92.19098

Route:63 Section:17 Log:13.61

Arnold Road ID:6x63x17xA, Arnold Log mile:13.558

District 07, 11 - Bradley County

Owner: 1 - State Highway Agency



33.43897, -92.19098





Asset #05560(Routine)

# US 63 S-17 LM13.61 over L'AIGLE CREEK RELIEF

Location: .75 MI SW OF HERMITAGE

Team Lead: Rickie Bratton, Inspection Date: 09/06/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05560
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	11 - Bradley County
(4) Place Code	0
(6) Features Intersected	L'AIGLE CREEK RELIEF
(7) Facility Carried	US 63 S-17 LM13.61
(9) Location	.75 MI SW OF HERMITAGE
(11) Mile Point	13.61 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000063170
(16) Latitude	33.438965636123
(17) Longitude	-92.1909763240814
(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	8
(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	1977
(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	2400
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	48 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	280 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	30 ft
(52) Deck Width Out to Out	32.7 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	31.5 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 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	6 - Rural Minor Arterial
(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	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	
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	7
(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	0 - Inspected feature does not meet
(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	2938
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/06/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



Asset #05560(Routine)

District: 07, County: 11 - Bradley County

Team Lead: Rickie Bratton, Inspection Date: 09/06/2022

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**General Observation (False)**

Logged east to west.

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**49 - Structure Length (280)**

09/24/2020 total structure length per plans.

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**51 - Bridge Roadway Width Curb-To-Curb (30)**

09/24/2020 JPR -- Bridge Roadway Width Curb-to-Curb =  $(15.0 \times 2 = 30.0')$  per plans.

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**52 - Deck Width (32.7)**

09/24/2020 JPR -- Deck Width =  $(16.33 \times 2 = 32.66'$  or  $32.7')$  per plans.

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**A-46 - Asset Files**

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**US 63 S-17 LM13.61 over L'AIGLE CREEK RELIEF**

**Location: .75 MI SW OF HERMITAGE**

**Team Lead:** Rickie Bratton, **Inspection Date:** 09/06/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	9156	8872	284	0	0
1090	Exposed Rebar	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	30	0	30	0	0
1130	Cracking (RC and Other)	SF	252	0	252	0	0
(38) Top has 133' of diagonal cracks Bottom spans 1,2,5,7 and 8 has 31' of eff. 09/24/2020 JPR -- Deck area = (280' x 32.7' = 9156 sq.ft.) per plans.							
215	Reinforced Concrete Abutment	LF	79.2	79.2	0	0	0
(215) 09/24/2020 JPR -- Total length of Reinforced Concrete Abutment = (19' 91/2" x 2 = 39.58/abutment x 2 = 79.2') per plans.							
227	Reinforced Concrete Pile	EA	42	6	36	0	0
1190	Abrasion/Wear (PSC/RC)	EA	36	0	36	0	0
(227) Piles in bents 3-7 have light abrasion. 09/24/2020 JPR -- total number of Reinforced Concrete Piles = (6/bent x 7 bents = 42 piles) per plans.							
234	Reinforced Concrete Pier Cap	LF	231	225	2	4	0
1080	Delamination/Spall/Patched Area	LF	4	0	2	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
(234) 09/24/2020 JPR -- total length of Reinforced Concrete Pier Cap = (33' x 7 = 231') per plans.							
301	Pourable Joint Seal	LF	229	0	229	0	0
2310	Leakage	LF	229	0	229	0	0
(301) All joints leaking. 09/24/2020 JPR -- Total length of Poured joint material = (32.66 x 7 = 228.62' or 229') per plans.							
331	Reinforced Concrete Bridge Railing	LF	560	560	0	0	0
(331) 09/24/2020 JPR -- Total length of Reinforced Concrete Bridge Railing = (280' x 2 = 560' of Bridge Railing) per plans.							

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## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	9156	8872	284	0	0
1090	Exposed Rebar	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	30	0	30	0	0
1130	Cracking (RC and Other)	SF	252	0	252	0	0
(38) Top has 133' of diagonal cracks Bottom spans 1,2,5,7 and 8 has 31' of eff. 09/24/2020 JPR -- Deck area = (280' x 32.7' = 9156 sq.ft.) per plans.							



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US 63 S-17 LM13.61 over L'AIGLE CREEK RELIEF

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## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



**US 63 S-17 LM13.61 over L'AIGLE CREEK RELIEF**

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## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	79.2	79.2	0	0	0
(215) 09/24/2020 JPR -- Total length of Reinforced Concrete Abutment = (19' 91/2" x 2 = 39.58/abutment x 2 = 79.2') per plans.							
227	Reinforced Concrete Pile	EA	42	6	36	0	0
1190	Abrasion/Wear (PSC/RC)	EA	36	0	36	0	0
(227) Piles in bents 3-7 have light abrasion. 09/24/2020 JPR -- total number of Reinforced Concrete Piles = (6/bent x 7 bents = 42 piles) per plans.							
234	Reinforced Concrete Pier Cap	LF	231	225	2	4	0
1080	Delamination/Spall/Patched Area	LF	4	0	2	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
(234) 09/24/2020 JPR -- total length of Reinforced Concrete Pier Cap = (33' x 7 = 231') per plans.							



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## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Elevation.



Deck overview.



Span 5 looking ahead @ deck.





Span 7 deck looking ahead.



Span 7 looking from Lt. to Rt. & back @ Bt. 6 @ deck soffit.



Span 2 deck soffit looking ahead & Rt.



Deck overview.





Span 2 soffit overview.



Roadway



Approach roadway Westbound.



Approach roadway.





Soffit span 5, crack with efflorescence.



Deck overview.



Span 5, diagonal crack.



Piles at bent 7, light abrasion.





Profile



Span 1 cracks with efflorescence.



Span 1 soffit has exposed rebar.



Bent 2 cap ahead spall right side.



Bent 3 cap ahead left side large spall with exposed rebar.



**Maintenance Needs**

**Date Reported:** 09/19/2012  
**Priority:** D- Routine  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

**Deficiency Description**

Poured Joint Material, all spans has degraded and is allowing dirt and debris to fill the joints, also allowing water and debris onto caps.

**Remarks**



Bent 5 joint material is losing bond with concrete & has some impaction & leakage.



**Date Reported:** 09/06/2022  
**Priority:** D- Routine  
**Type of Work:** Replace (General)  
**Status:** Open  
**Component:** Miscellaneous

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**Deficiency Description**

Log mile signs posted backwards.

**Remarks**

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Log mile signs posted backwards.



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**US 63 S-17 LM13.61 over L'AIGLE CREEK RELIEF**

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**Team Lead:** Rickie Bratton, **Inspection Date:** 09/06/2022

## **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	



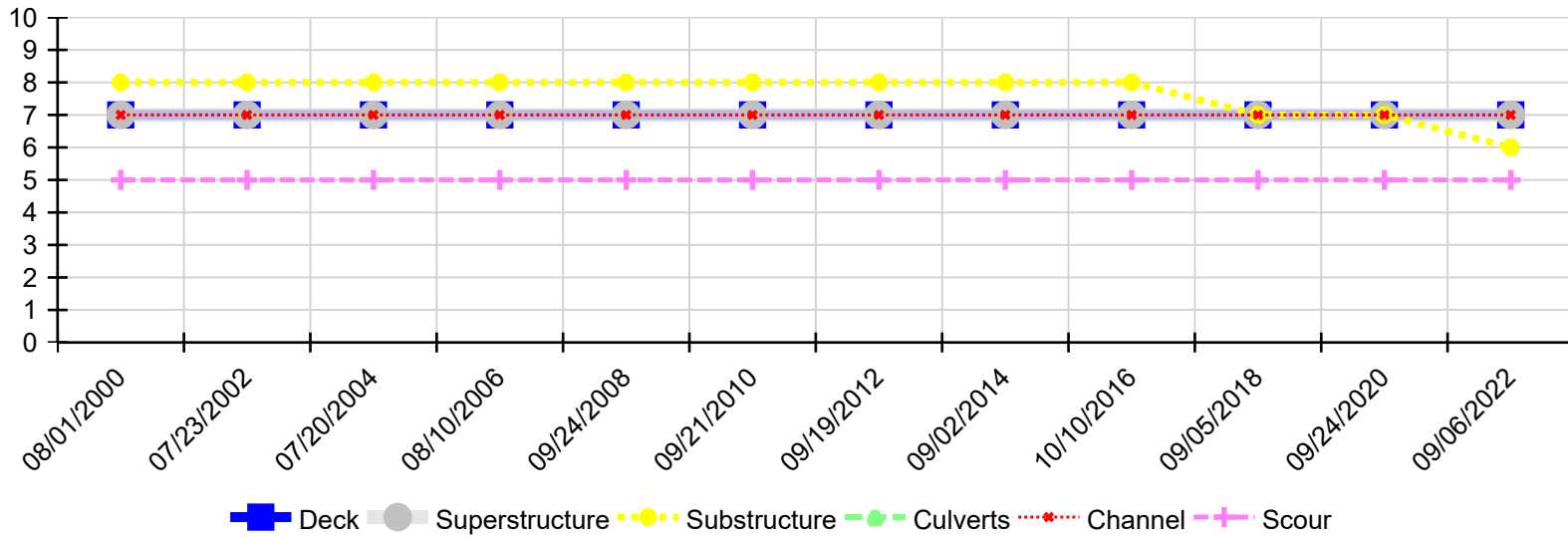
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Team Lead: Rickie Bratton, Inspection Date: 09/06/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/06/2022	7	7	6	N	7	5
09/24/2020	7	7	7	N	7	5
09/05/2018	7	7	7	N	7	5
10/10/2016	7	7	8	N	7	5
09/02/2014	7	7	8	N	7	5
09/19/2012	7	7	8	N	7	5
09/21/2010	7	7	8	N	7	5
09/24/2008	7	7	8	N	7	5
08/10/2006	7	7	8	N	7	5
07/20/2004	7	7	8	N	7	5
07/23/2002	7	7	8	N	7	5
08/01/2000	7	7	8	N	7	5