



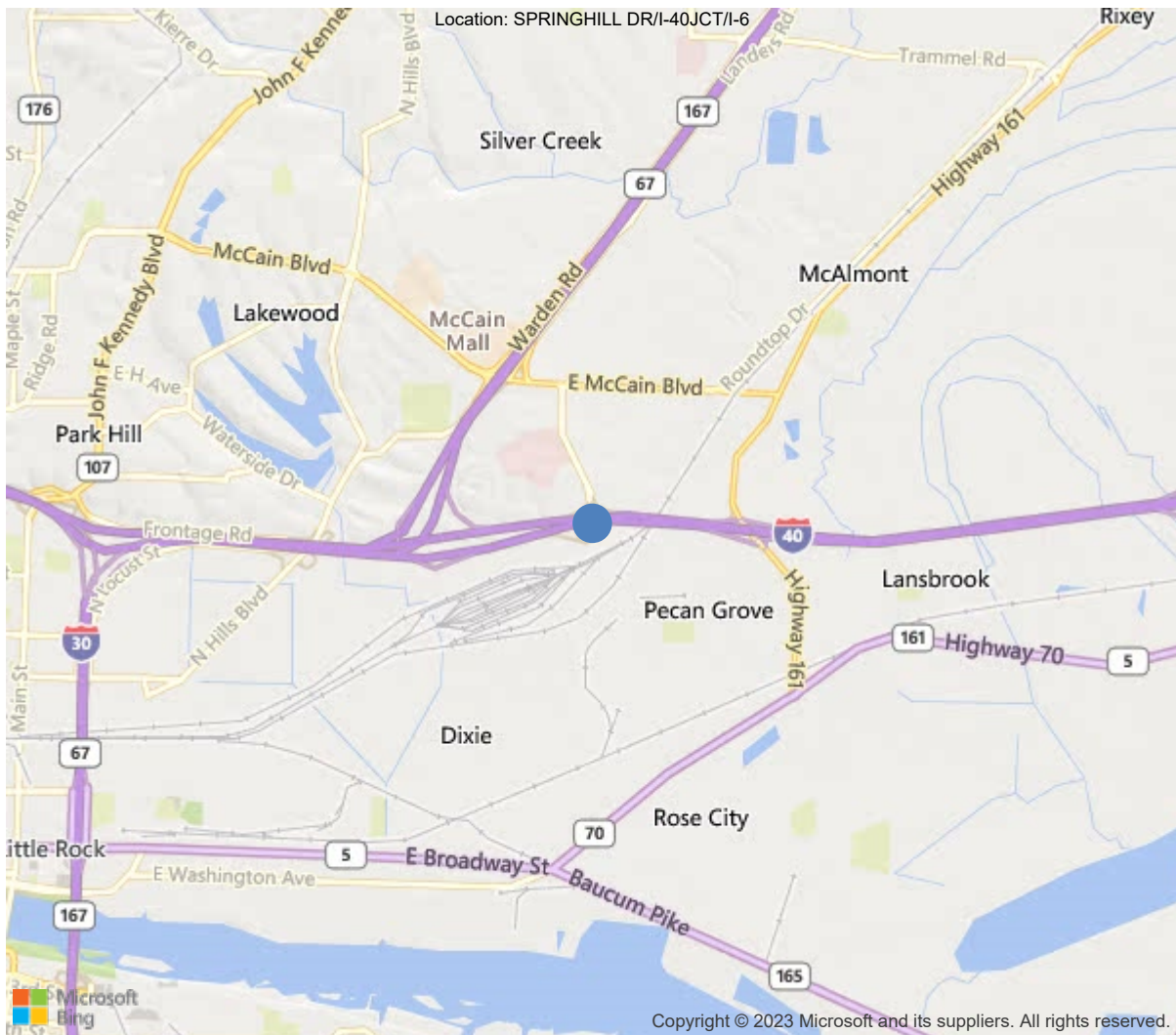
Latitude:34.77931, Longitude:-92.21705

Route:54780 Section:00 Log:0.01

Arnold Road ID:60x40x533xA, Arnold Log mile:0.021

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency



34.77931, -92.21705





Asset #06641 (Routine)

Spring Hill O.P. over I-40 Log 155.93

Location: SPRINGHILL DR/I-40JCT/I-6

Team Lead: Chris Doggett, Inspection Date: 03/16/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06641
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	50450
(6) Features Intersected	I-40 Log 155.93
(7) Facility Carried	Spring Hill O.P.
(9) Location	SPRINGHILL DR/I-40JCT/I-6
(11) Mile Point	0.01 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.77931
(17) Longitude	-92.21705
(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	2
(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	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1998
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	5
(29) Average Daily Traffic	4430
(30) Year of ADT	2011
(109) Truck ADT	20 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	148 ft
(49) Structure Length	298 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	49.9 ft
(52) Deck Width Out to Out	54.8 ft
(32) Approach Roadway Width (W/Shoulders)	49.9 ft
(33) Bridge Median	3 - Closed median wit
(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	52.5 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	17.25 ft
Ref:	
(55) Min Lat Underclear RT	32 ft
Ref:	
(56) Min Lat Underclear LT	49.3 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	1
(26) Functional Class	11 - Urban Principal Arterial
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(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 structu
(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	N
(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	
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	9
(69) Clearances, Vertical/Horizontal	9
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
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	1296
(115) Year of Future ADT	2018

INSPECTIONS *			
(90) Inspection Date	03/16/2022		
(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 #06641(Routine)

District: 06, County: 119 - Pulaski County

Team Lead: Chris Doggett, Inspection Date: 03/16/2022

**General Observation (False)**

AHTD job# R60138 Drawing# 37093 for layout

Logged south/north Signs BM-040-60-23 and BM-040-60-24 attached to bridge.

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**A-46 - Asset Files**

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Asset #06641 (Routine)

Spring Hill O.P. over I-40 Log 155.93

Location: SPRINGHILL DR/I-40JCT/I-6

Team Lead: Chris Doggett, Inspection Date: 03/16/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16176	10715	5461	0	0
1130	Cracking (RC and Other)	SF	1885	0	1885	0	0
7000	Damage	SF	3576	0	3576	0	0
(12) Deck has longitude/transverse cracks in all spans and cracks in soffit with light efflorescence.							
107	Steel Open Girder/Beam	LF	2065	2065	0	0	0
515	Steel Protective Coating	SF	32400	28673	3727	0	0
3410	Chalking (Steel Protective Coatings)	LF	3627	0	3627	0	0
3420	Peeling/Bubbling/Cracking	LF	100	0	100	0	0
(107) Spans 1 and 2 have areas of peeling paint on the diaphragms and bottom and top flanges of the girders. Outside girders have chalking.							
(515-107) Areas of peeling paint.							
205	Reinforced Concrete Column	EA	3	1	2	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
(205) Bent 2 columns 1 & 3 have vertical cracks near the bottom of the columns.							
215	Reinforced Concrete Abutment	LF	172	0	162	10	0
1130	Cracking (RC and Other)	LF	172	0	162	10	0
(215) Abutments have multiple vertical/horizontal cracks. Bent 3 has large horizontal cracks near the bottom between girders 4-6.							
234	Reinforced Concrete Pier Cap	LF	54	52	2	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(234) Bent 2 has a diagonal crack on the backside under girder 2.							
300	Strip Seal Expansion Joint	LF	108	108	0	0	0
(300) No noteworthy defects at this inspection							
301	Pourable Joint Seal	LF	108	108	0	0	0
(301) No noteworthy defects at this inspection							
310	Elastomeric Bearing	EA	7	7	0	0	0
(310) No noteworthy defects at this inspection							
321	Reinforced Concrete Approach Slab	SF	2190	1840	206	144	0
1130	Cracking (RC and Other)	SF	350	0	206	144	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(321) All approach slabs have large longitudinal and diagonal cracks.							
331	Reinforced Concrete Bridge Railing	LF	894	0	596	298	0
1130	Cracking (RC and Other)	LF	894	0	596	298	0
(331) Median wall has large horizontal cracks. Outside bridge railing have longitudinal and horizontal cracks.							

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16176	10715	5461	0	0
1130	Cracking (RC and Other)	SF	1885	0	1885	0	0
7000	Damage	SF	3576	0	3576	0	0
(12) Deck has longitude/transverse cracks in all spans and cracks in soffit with light efflorescence.							



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	2065	2065	0	0	0
515	Steel Protective Coating	SF	32400	28673	3727	0	0
3410	Chalking (Steel Protective Coatings)	LF	3627	0	3627	0	0
3420	Peeling/Bubbling/Cracking	LF	100	0	100	0	0
(107) Spans 1 and 2 have areas of peeling paint on the diaphragms and bottom and top flanges of the girders. Outside girders have chalking.							
(515-107) Areas of peeling paint.							

**Asset #06641 (Routine)**



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Spring Hill O.P. over I-40 Log 155.93

Location: SPRINGHILL DR/I-40JCT/I-6

Team Lead: Chris Doggett, Inspection Date: 03/16/2022

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





Elevation



Bent 1: numerous horizontal and diagonal cracking  
throughout the entire abutment.  
Bent 3 is in similar condition



Span 2: girders 3&4 have areas on the bottom flange with  
peeling paint



Soffit view.





Span 2: multiple longitudinal cracks



Span 1: map cracking



Deck view



Inventory looking north





Span 2 deck cracking longitudinal and transverse cracks, common span 1.



Span 2 beams have peeling paint on bottom flanges.



Bent 3 abutment has horizontal cracks under beams 4-6.



Abutment 1 has horizontal cracking and vertical cracking at beam 2.





Approach slab at North end of bridge has unsealed longitudinal and transverse cracking.



Concrete bridge railing has cracking, both left and right sides.



Median concrete barrier wall has cracking.



Bent 2, Column 1: has vertical cracks near bottom of column. Similar condition at column 3.

**Maintenance Needs**

**Date Reported:** 03/24/2020  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Assigned  
**Component:**

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**Deficiency Description**

Approach slab at bent 1 northbound has 2' void under approach slab at abutment.

**Remarks**

Assigned to Pulaski I 7/15/2020

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Approach slab at bent 1 northbound has 2' void  
under approach slab at abutment.



**Date Reported:** 03/15/2018  
**Priority:** D- Routine  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Approach slabs: Approaches have large longitude cracks and smaller diagonal cracks.

**Remarks**

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Northeast approach, large unsealed cracks.



**Date Reported:** 03/15/2018  
**Priority:** C - Important  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** RepairDocumented  
**Component:**

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**Deficiency Description**

Northbound approach guardrail damaged due to traffic impact.

**Remarks**

Assigned Pulaski 1 06601 12/18/18

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Northbound approach guardrail damaged due to traffic impact.



Northbound approach guardrail damaged due to traffic impact.

**Date Reported:** 03/13/2014  
**Priority:** D- Routine  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Deck has large unsealed cracks.

**Remarks**

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Span 2 deck cracking longitudinal and transverse cracks, common span 1.

**Date Reported:** 03/17/2022  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Approach

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**Deficiency Description**

South bound approach rail has been damaged due to traffic impact.

**Remarks**

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South bound approach rail has been damaged due to traffic impact.



**Asset #06641(Routine)**

**Spring Hill O.P. over I-40 Log 155.93**

**Location: SPRINGHILL DR/I-40JCT/I-6**

**Team Lead: Chris Doggett, Inspection Date: 03/16/2022**

## **Routine Maintenance**

Check Box Maintenance Items

<b>Type of Maintenance</b>	<b>Is recommended?</b>
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	



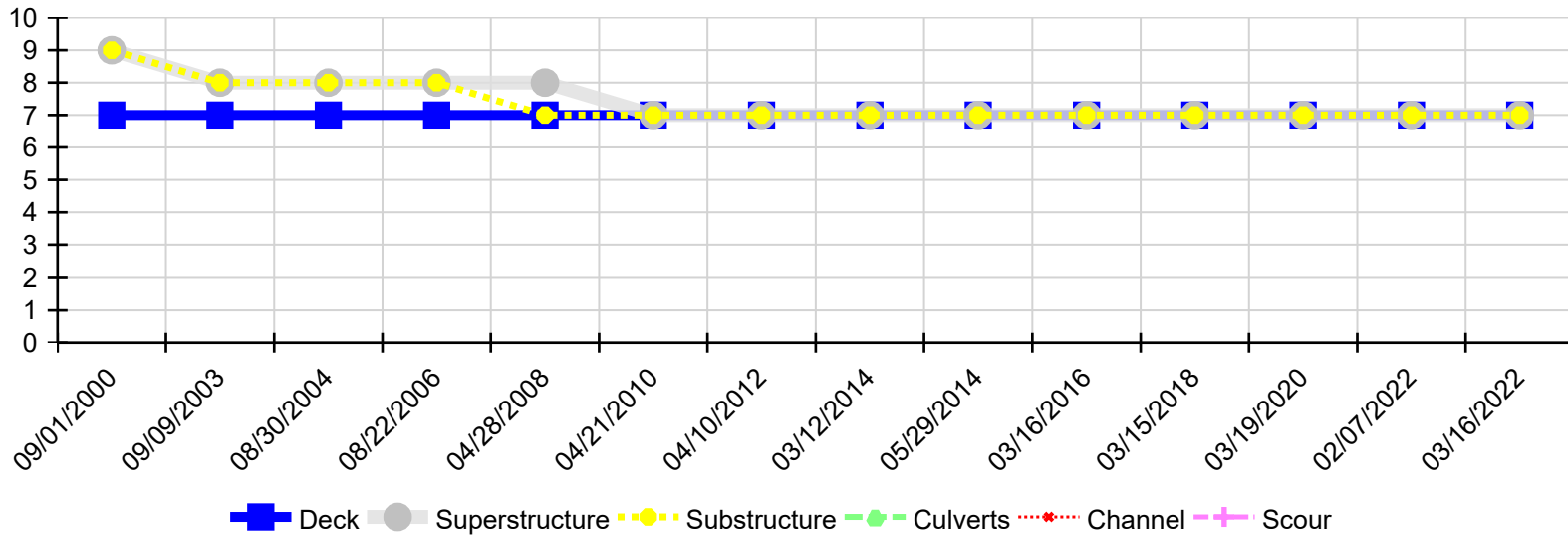
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Location: SPRINGHILL DR/I-40JCT/I-6

Team Lead: Chris Doggett, Inspection Date: 03/16/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/16/2022	7	7	7	N	N	N
02/07/2022	7	7	7	N	N	N
03/19/2020	7	7	7	N	N	N
03/15/2018	7	7	7	N	N	N
03/16/2016	7	7	7	N	N	N
05/29/2014	7	7	7	N	N	N
03/12/2014	7	7	7	N	N	N
04/10/2012	7	7	7	N	N	N
04/21/2010	7	7	7	N	N	N
04/28/2008	7	8	7	N	N	N
08/22/2006	7	8	8	N	N	N
08/30/2004	7	8	8	N	N	N
09/09/2003	7	8	8	N	N	N
09/01/2000	7	9	9	N	N	N