



Bridge #07040(Routine)
US 412-09- LM 5.71 over LOCUST CREEK
Location: 2.53 MI W of MO STATE LN
Team Lead: Tim Myrick Inspection Date: August 23, 2021



Latitude:36.05240, Longitude:-90.38684

Route:412 Section:09 Log:5.71

Arnold Road ID:28x412x9xA, Arnold Log mile:5.703

District 10, Greene County

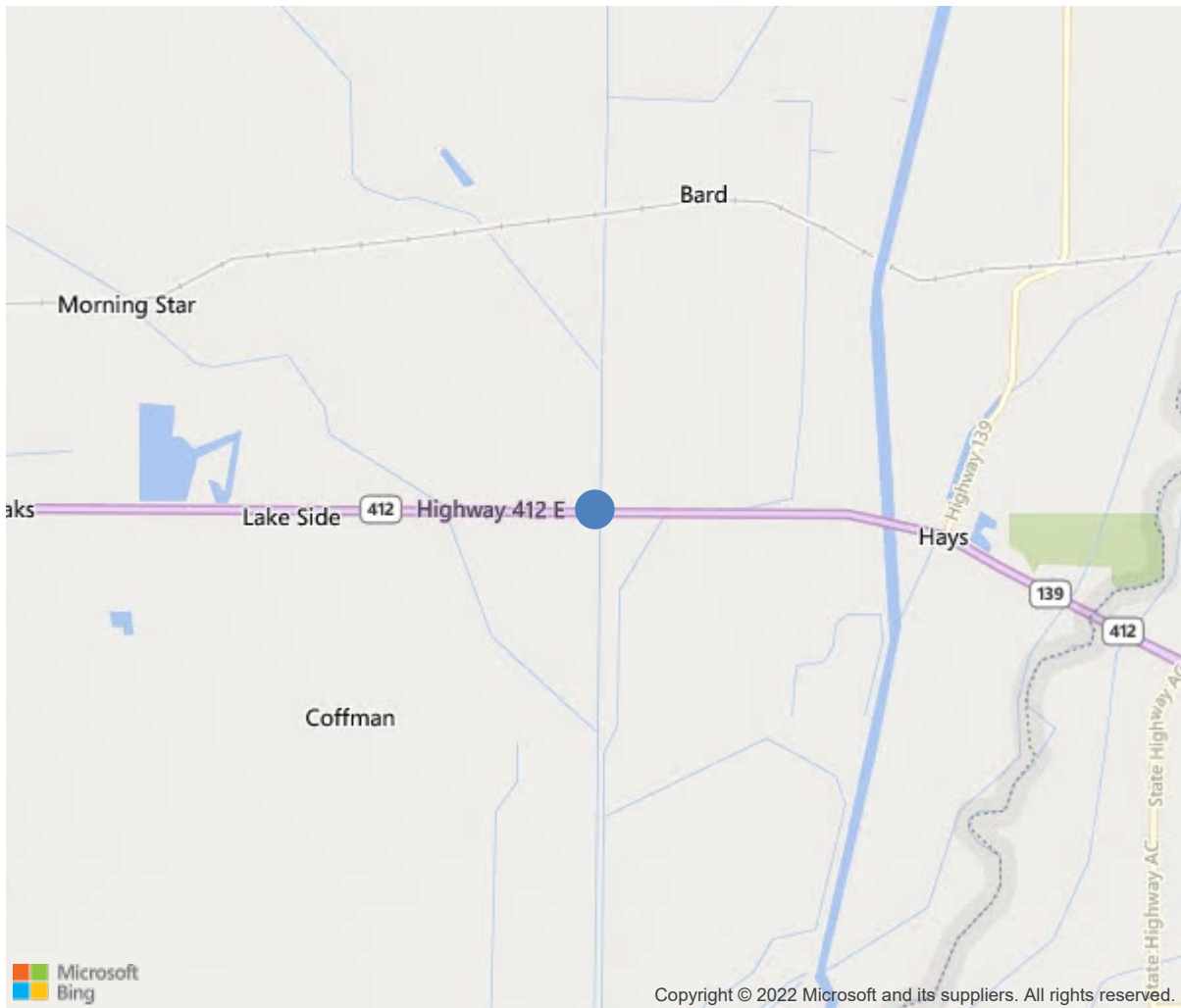
Owner: 1-State Highway Agency



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	07040
(5) Inventory Route	412
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	LOCUST CREEK
(7) Facility Carried	US 412-09- LM 5.71
(9) Location	2.53 MI W of MO STATE LN
(11) Mile Point	5.71 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000000001
(16) Latitude	36.0524
(17) Longitude	-90.38684
(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	3
(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	2008
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	8700
(30) Year of ADT	2018
(109) Truck ADT	11 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	56 ft
(49) Structure Length	143 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	75.1 ft
(52) Deck Width Out to Out	78.2 ft
(32) Approach Roadway Width (W/Shoulders)	75.1 ft
(33) Bridge Median	1-Open median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	76.1 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 water
(111) Pier Protection	5-None present but re-evaluation
(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	2-Rural Principal Arterial - Oth
(100) Defense Highway	0-The inventory route is not a S
(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	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	4-Historical significance is not dete
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	7
(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	3
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	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
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	10307
(115) Year of Future ADT	2025

INSPECTIONS *			
(90) Inspection Date			08/2021
(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		
* 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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	11100	9382	1572	146	0
1120	Efflorescence/Rust Staining	SF	146	0	0	146	0
1130	Cracking (RC and Other)	SF	1572	0	1572	0	0
107	Steel Open Girder/Beam	LF	1278	1278	0	0	0
515	Steel Protective Coating	SF	12699	12699	0	0	0
215	Reinforced Concrete Abutment	LF	176	169	0	7	0
1120	Efflorescence/Rust Staining	LF	7	0	0	7	0
225	Steel Pile	EA	20	20	0	0	0
515	Steel Protective Coating	SF	2148	2148	0	0	0
234	Reinforced Concrete Pier Cap	LF	154	154	0	0	0
310	Elastomeric Bearing	EA	18	18	0	0	0
321	Reinforced Concrete Approach Slab	SF	4307	3578	289	440	0
1130	Cracking (RC and Other)	SF	729	0	289	440	0
331	Reinforced Concrete Bridge Railing	LF	286	267	19	0	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	15	0	15	0	0



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Maintenance Needs

Date Reported: 08/15/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Top of Deck has insignificant size and density cracks.

Remarks



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Date Reported: 08/15/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Approach

Deficiency Description

Approach Slabs have moderate size insignificant density sealable cracks.

Remarks



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Date Reported: 08/07/2013
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Bottom of Deck Bay 4 near centerline has insignificant size and density cracks with efflorescence, (Bay has no SIP Decking).
Exposed Soffit has some cracks with efflorescence.

Remarks





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Date Reported: 08/07/2013
Priority: D- Routine
Type of Work: Vandalism Problem
Status: Monitor
Component: Substructure

Deficiency Description

Bent 1&4 Cap has minor cracks with efflorescence.

Remarks



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Date Reported: 08/19/2019
Priority: D- Routine
Type of Work: Clean
Status: Assigned
Component: Channel

Deficiency Description

Minor drift under span 3.
Trees & brush on channel banks.

Remarks

currently under construction on CA1003, bridge to be replaced. KAW 4/23/20



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Deck Notes

Approach slabs have moderate size insignificant density sealable cracks.
Concrete rails have some cracks with efflorescence.
Concrete deck has moderate width cracks.
Soffit portion of deck Bay 4 near centerline has moderate width cracks with efflorescence, (Bay has no SIP forms).
Exposed soffit has some cracks with efflorescence.

Superstructure Notes

Weathering steel girders are in very good condition with tightly bonded light rust.

Substructure Notes

Back wall & cap portions of bents 1 & 4 abutments have vertical cracks with efflorescence.
Bent 1&4 caps have minor cracks with efflorescence.
Steel column encasements are beginning to rust near ground line.
Minor drift under span 3.
Trees & brush on channel banks.