



Latitude:33.71230, Longitude:-93.87164

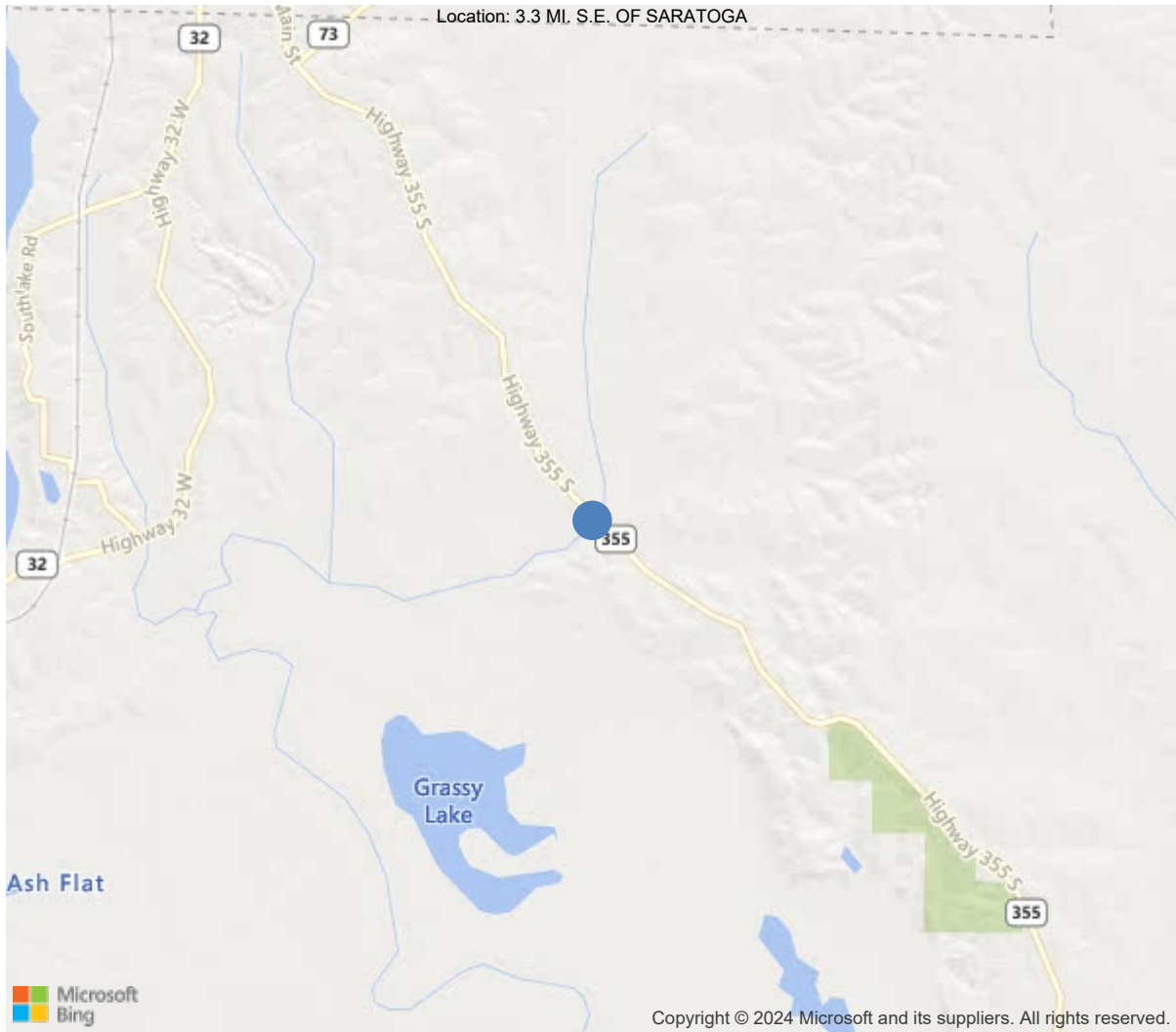
Route:355 Section:02 Log:3.16

Arnold Road ID:29x355x2xA, Arnold Log mile:3.146

District 03, 57 - Hempstead County

Owner: 1 - State Highway Agency





33.71230, -93.87164



Asset #03040(Routine)

SH 355 - 02- 3.16 over YELLOW CREEK

Location: 3.3 MI. S.E. OF SARATOGA

Team Lead: Jared Kegley, Inspection Date: 09/27/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03040
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	57 - Hempstead County
(4) Place Code	0
(6) Features Intersected	YELLOW CREEK
(7) Facility Carried	SH 355 - 02- 3.16
(9) Location	3.3 MI. S.E. OF SARATOGA
(11) Mile Point	3.16 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.712299
(17) Longitude	-93.871643
(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	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1956
(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	1700
(30) Year of ADT	2018
(109) Truck ADT	20 %
(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	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.5 ft
(32) Approach Roadway Width (W/Shoulders)	21 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	25.9 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	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	47
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	28
(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	6
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	140 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 117
(96) Total Project Cost	\$ 366
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	2121
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/27/2022		
(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.			



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

JK, TLC - 9/27/2022

Asphalt Wearing Surface covering bridge deck. Potholes have formed in wearing surface along all joint lines of bridge. Cracking throughout wearing surface in all spans. Concrete bridge railing has minor spalling on both RT and LT side of bridge. Spall in span 3 LT side underside of deck near drain. Deck is rated a 7 per this inspection.

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

JK, TLC - 9/27/2022

Spall in span 3 LT side underside of deck near drain. Superstructure is rated a 7 per this inspection.

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

Bent 3 has 1' of exposed rebar on LT side of cap. Bent 2 has a 1' spall on RT side of cap. Substructure is rated a 7 per this inspection.

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**A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS)** (6 - Widespread minor or isolated moderate scour.)

JK, TLC - 9/27/2022

Scour rating is a 6 per this inspection due to minor widespread scour approaching bents 3 & 4.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2912	2909	3	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
510	Wearing Surfaces	SF	2688	2573	110	5	0
3210	Delam/Spall/Patched Area/Pothole	SF	5	0	0	5	0
3220	Crack (Wearing Surface)	SF	110	0	110	0	0
(1080-38) Spall in span 3 LT side underside of deck near drain.							
(3210-510-38) Potholes have formed in wearing surface along all joint lines on bridge.							
(3220-510-38) Cracking throughout wearing surface in all spans.							
215	Reinforced Concrete Abutment	LF	73	73	0	0	0
227	Reinforced Concrete Pile	EA	12	12	0	0	0
234	Reinforced Concrete Pier Cap	LF	83	80	3	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234) caps have been patched							
(1080-234) Bent 2 has a 1' spall on RT side of cap.							
(1090-234) Bent 3 has 1' of exposed rebar on LT side of cap.							
301	Pourable Joint Seal	LF	120	120	0	0	0
(301) 120' of joints is covered in asphalt with asphalt cracking above joints							
330	Metal Bridge Railing	LF	224	0	224	0	0
1000	Corrosion	LF	224	0	224	0	0
(330) Guard rail heavy rust needs re painted							
331	Reinforced Concrete Bridge Railing	LF	224	219	5	0	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
(1080-331) Concrete bridge railing has minor spalling on both RT and LT side of bridge.							



Asset #03040(Routine)

SH 355 - 02- 3.16 over YELLOW CREEK

Location: 3.3 MI. S.E. OF SARATOGA

Team Lead: Jared Kegley, Inspection Date: 09/27/2022

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2912	2909	3	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
510	Wearing Surfaces	SF	2688	2573	110	5	0
3210	Delam/Spall/Patched Area/Pothole	SF	5	0	0	5	0
3220	Crack (Wearing Surface)	SF	110	0	110	0	0
(1080-38) Spall in span 3 LT side underside of deck near drain.							
(3210-510-38) Potholes have formed in wearing surface along all joint lines on bridge.							
(3220-510-38) Cracking throughout wearing surface in all spans.							

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

Comment: JK, TLC - 9/27/2022

Asphalt Wearing Surface covering bridge deck. Potholes have formed in wearing surface along all joint lines of bridge. Cracking throughout wearing surface in all spans. Concrete bridge railing has minor spalling on both RT and LT side of bridge. Spall in span 3 LT side underside of deck near drain. Deck is rated a 7 per this inspection.



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## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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

Comment: JK, TLC - 9/27/2022

Spall in span 3 LT side underside of deck near drain. Superstructure is rated a 7 per this inspection.





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**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	73	73	0	0	0
227	Reinforced Concrete Pile	EA	12	12	0	0	0
234	Reinforced Concrete Pier Cap	LF	83	80	3	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234) caps have been patched							
(1080-234) Bent 2 has a 1' spall on RT side of cap.							
(1090-234) Bent 3 has 1' of exposed rebar on LT side of cap.							

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

Comment: Bent 3 has 1' of exposed rebar on LT side of cap. Bent 2 has a 1' spall on RT side of cap. Substructure is rated a 7 per this inspection.



Elevation



Alignment



Corrosion on metal bridge railing



Potholes on asphalt wearing surface at all joint lines.





Potholes on asphalt wearing surface at all joint lines.



Spall in span 3 LT side underside of deck



Underside of deck typical of all spans



Underside of deck typical of all spans





Bent 3 exposed rebar LT side of cap



Typical bent photo



Spalls on concrete bridge railing



Bent 2 spall on cap RT side





RT side beginning of bridge spall on concrete bridge railing



Deck photo typical of all spans





Asset #03040(Routine)

SH 355 - 02- 3.16 over YELLOW CREEK

Location: 3.3 MI. S.E. OF SARATOGA

Team Lead: Jared Kegley, Inspection Date: 09/27/2022

#### Maintenance Needs

Date Reported: 09/02/2020

Priority: D- Routine

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

Status: Open

Component:

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#### Deficiency Description

Vegetation needs sprayed along side of bridge

#### Remarks

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Asset #03040(Routine)

SH 355 - 02- 3.16 over YELLOW CREEK

Location: 3.3 MI. S.E. OF SARATOGA

Team Lead: Jared Kegley, Inspection Date: 09/27/2022

#### Maintenance Needs

Date Reported: 09/02/2020

Priority: D- Routine

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

Status: Monitor

Component:

---

#### Deficiency Description

Guard rail needs painted heavy rust both right and left sides

#### Remarks

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**Maintenance Needs**

**Date Reported:** 09/27/2022

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Open

**Component:** Element

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**Deficiency Description**

Potholes in Asphalt Wearing Surface along all joint lines need patched.

**Remarks**

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Potholes on asphalt wearing surface at all joint lines.



Potholes on asphalt wearing surface at all joint lines.





Potholes on asphalt wearing surface at all joint lines.



Potholes on asphalt wearing surface at all joint lines.





**Asset #03040**(Routine)

**SH 355 - 02- 3.16 over YELLOW CREEK**

**Location: 3.3 MI. S.E. OF SARATOGA**

**Team Lead:** Jared Kegley, **Inspection Date:** 09/27/2022

## **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	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	



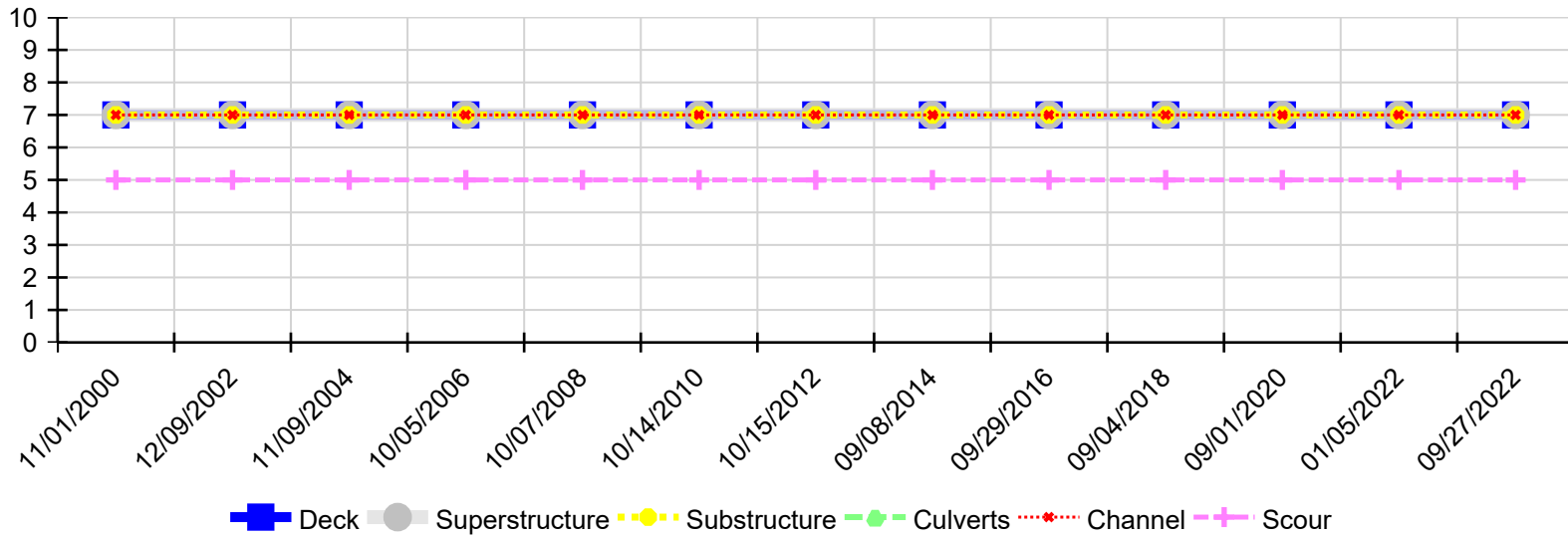
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Location: 3.3 MI. S.E. OF SARATOGA

Team Lead: Jared Kegley, Inspection Date: 09/27/2022

### Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/27/2022	7	7	7	N	7	5
01/05/2022	7	7	7	N	7	5
09/01/2020	7	7	7	N	7	5
09/04/2018	7	7	7	N	7	5
09/29/2016	7	7	7	N	7	5
09/08/2014	7	7	7	N	7	5
10/15/2012	7	7	7	N	7	5
10/14/2010	7	7	7	N	7	5
10/07/2008	7	7	7	N	7	5
10/05/2006	7	7	7	N	7	5
11/09/2004	7	7	7	N	7	5
12/09/2002	7	7	7	N	7	5
11/01/2000	7	7	7	N	7	5