



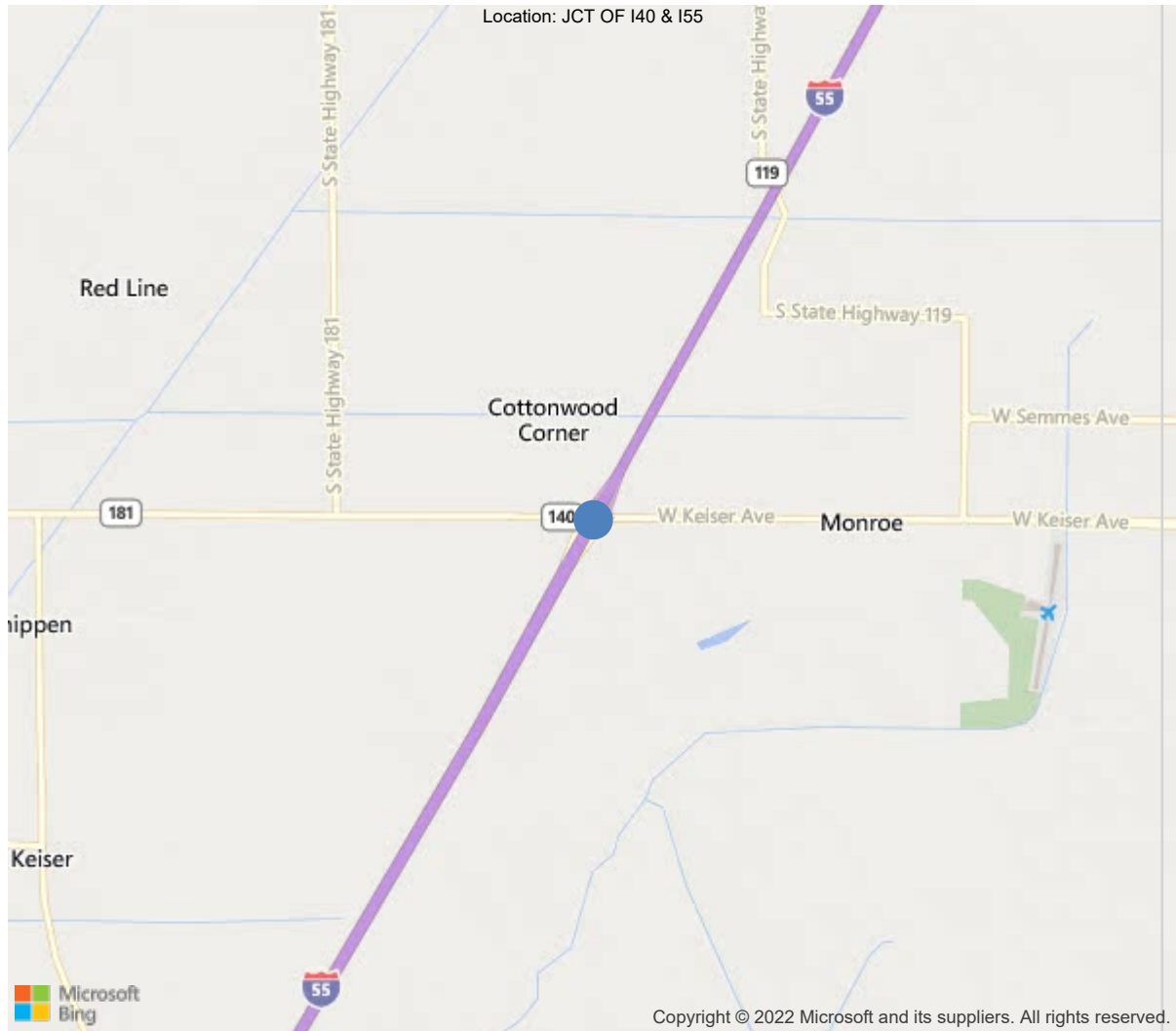
Latitude:35.69800, Longitude:-90.05007

Route:55 Section:12 Log:48.29

Arnold Road ID:47x55x12xA, Arnold Log mile:48.332

District 10, 93 - Mississippi County

Owner: 1 - State Highway Agency



35.69800, -90.05007





Asset #B3289(Routine)

I-55NB-12-LM 48.29 over SH 140-SEC 2

Location: JCT OF I40 & I55

Team Lead: Richard Jones, Inspection Date: 10/27/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	B3289
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	93 - Mississippi County
(4) Place Code	52580
(6) Features Intersected	SH 140-SEC 2
(7) Facility Carried	I-55NB-12-LM 48.29
(9) Location	JCT OF I40 & I55
(11) Mile Point	48.29 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055120
(16) Latitude	35.698
(17) Longitude	-90.05007
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1962
(106) Year Reconstructed	1988
(42) Type of Service	61
On	6 - Overpass structure at an interchange or s
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	9500
(30) Year of ADT	2018
(109) Truck ADT	46 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	84 ft
(49) Structure Length	187 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0 - No median
(34) Skew	29 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	15.71 ft
Ref:	
(55) Min Lat Underclear RT	2.5 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	5 - None present but re-evalua
(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	1 - The inventory route is on
(101) Parallel Structure	R - The right structure of par
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(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	6
(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	7
(69) Clearances, Vertical/Horizontal	3
(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	1 - Inspected feature meets current
(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	25100
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	10/27/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<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>			

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**58 - Deck (6)**

Approach slabs have a few minor cracks and small spalls.

Bridge rails have several cracks and a few spalls.

Deck has several unsealed longitudinal and transverse cracks. Deck has areas of minor abrasion.

Compression seals are ripped and torn with some areas losing adhesion. Some are pulled out or missing.

Overhangs have a few transverse cracks with efflorescence.

Span 2 Rt overhang is spalled with rebar exposed over bent 2.

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**59 - Superstructure (7)**

Paint system is mostly faded. Girders have several areas of freckled surface rust.

Bearings have some pack rust and section loss, especially at abutments.

Span 1 bent 1 bearing 4 has up to 1/4" gap between masonry and sole plates.

Span 2 bent 2 bearings are rotated back. Bearings 2, 3, 4, and 6 are at or near max rotation.

Span 2 bent 2 bearing 3 has one missing bolt between sole plate and bottom flange.

Span 2 bent 3 fixed bearing 1 is rotated ahead and has a 1/4" gap between cap and masonry plate on back side.

Span 3 bent 3 fixed bearing 6 is rotated back and has a 1/2" gap between cap and masonry plate on ahead side.

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**60 - Substructure (7)**

Abutments and backwalls have a few cracks with efflorescence or rust stains.

Caps at interior bents have a few minor cracks. Caps have a small delaminated areas or spalls with rebar exposed.

Bent 2 column 1 has a 2' x 2' spall with exposed rebar.

Bent 3 columns 1 and 2 have spalls with exposed rebar.

Bent 4 cap has 4' of map cracking.

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**A-27 - Job Number (10608)**

Widened under job R00010

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**A-46 - Asset Files**

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Asset #B3289(Routine)

I-55NB-12-LM 48.29 over SH 140-SEC 2

Location: JCT OF I40 & I55

Team Lead: Richard Jones, Inspection Date: 10/27/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7908	5303	2088	517	0
1080	Delamination/Spall/Patched Area	SF	3	0	1	2	0
1130	Cracking (RC and Other)	SF	545	0	30	515	0
1190	Abrasion/Wear (PSC/RC)	SF	2057	0	2057	0	0
107	Steel Open Girder/Beam	LF	1108	443	665	0	0
1000	Corrosion	LF	665	0	665	0	0
515	Steel Protective Coating	SF	10348	3655	4725	1968	0
3440	Effectiveness (Steel Protective Coatings)	LF	6693	0	4725	1968	0
205	Reinforced Concrete Column	EA	6	3	0	3	0
1090	Exposed Rebar	EA	3	0	0	3	0
215	Reinforced Concrete Abutment	LF	146	122	0	24	0
1120	Efflorescence/Rust Staining	LF	24	0	0	24	0
234	Reinforced Concrete Pier Cap	LF	96	78	0	18	0
1080	Delamination/Spall/Patched Area	LF	7	0	0	7	0
1090	Exposed Rebar	LF	2	0	0	2	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	7	0	0	7	0
302	Compression Joint Seal	LF	195	0	0	189	6
2330	Seal Damage	LF	104	0	0	98	6
2340	Seal Cracking	LF	91	0	0	91	0
311	Movable Bearing	EA	18	0	2	16	0
1000	Corrosion	EA	11	0	0	11	0
2220	Alignment	EA	7	0	2	5	0
313	Fixed Bearing	EA	18	0	10	8	0
1000	Corrosion	EA	16	0	10	6	0
2220	Alignment	EA	2	0	0	2	0
321	Reinforced Concrete Approach Slab	SF	1752	1747	0	5	0
1080	Delamination/Spall/Patched Area	SF	3	0	0	3	0
1130	Cracking (RC and Other)	SF	2	0	0	2	0
331	Reinforced Concrete Bridge Railing	LF	370	169	107	94	0



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**I-55NB-12-LM 48.29 over SH 140-SEC 2**

**Location: JCT OF I40 & I55**

**Team Lead:** Richard Jones, **Inspection Date:** 10/27/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1090	Exposed Rebar	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	192	0	101	91	0



Asset #B3289(Routine)

I-55NB-12-LM 48.29 over SH 140-SEC 2

Location: JCT OF I40 &amp; I55

Team Lead: Richard Jones, Inspection Date: 10/27/2022

**Deck**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7908	5303	2088	517	0
1080	Delamination/Spall/Patched Area	SF	3	0	1	2	0
1130	Cracking (RC and Other)	SF	545	0	30	515	0
1190	Abrasion/Wear (PSC/RC)	SF	2057	0	2057	0	0

**58 - Deck (6)**

Comment: Approach slabs have a few minor cracks and small spalls.

Bridge rails have several cracks and a few spalls.

Deck has several unsealed longitudinal and transverse cracks. Deck has areas of minor abrasion.

Compression seals are ripped and torn with some areas losing adhesion. Some are pulled out or missing.

Overhangs have a few transverse cracks with efflorescence.

Span 2 Rt overhang is spalled with rebar exposed over bent 2.



**Superstructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1108	443	665	0	0
1000	Corrosion	LF	665	0	665	0	0
515	Steel Protective Coating	SF	10348	3655	4725	1968	0
3440	Effectiveness (Steel Protective Coatings)	LF	6693	0	4725	1968	0

**59 - Superstructure (7)**

Comment: Paint system is mostly faded. Girders have several areas of freckled surface rust.

Bearings have some pack rust and section loss, especially at abutments.

Span 1 bent 1 bearing 4 has up to 1/4" gap between masonry and sole plates.

Span 2 bent 2 bearings are rotated back. Bearings 2, 3, 4, and 6 are at or near max rotation.

Span 2 bent 2 bearing 3 has one missing bolt between sole plate and bottom flange.

Span 2 bent 3 fixed bearing 1 is rotated ahead and has a 1/4" gap between cap and masonry plate on back side.

Span 3 bent 3 fixed bearing 6 is rotated back and has a 1/2" gap between cap and masonry plate on ahead side.

**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	6	3	0	3	0
1090	Exposed Rebar	EA	3	0	0	3	0
215	Reinforced Concrete Abutment	LF	146	122	0	24	0
1120	Efflorescence/Rust Staining	LF	24	0	0	24	0
234	Reinforced Concrete Pier Cap	LF	96	78	0	18	0
1080	Delamination/Spall/Patched Area	LF	7	0	0	7	0
1090	Exposed Rebar	LF	2	0	0	2	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	7	0	0	7	0

**60 - Substructure (7)**

Comment: Abutments and backwalls have a few cracks with efflorescence or rust stains.

Caps at interior bents have a few minor cracks. Caps have a small delaminated areas or spalls with rebar exposed.

Bent 2 column 1 has a 2' x 2' spall with exposed rebar.

Bent 3 columns 1 and 2 have spalls with exposed rebar.

Bent 4 cap has 4' of map cracking.



Asset #B3289(Routine)

I-55NB-12-LM 48.29 over SH 140-SEC 2

Location: JCT OF I40 & I55

Team Lead: Richard Jones, Inspection Date: 10/27/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Span 2



Bent 2



**Maintenance Needs**

**Date Reported:** 10/09/2014  
**Priority:** D- Routine  
**Type of Work:** (Inactive) (Inactive) 1 - Clean  
**Status:** Monitor  
**Component:** Superstructure

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**Deficiency Description**

Paint system is mostly faded. Girders have several areas of freckled surface rust.

**Remarks**

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Span 2



**Date Reported:** 10/09/2014  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Substructure

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**Deficiency Description**

Bent 2 column 1 has a 2' x 2' spall with exposed rebar.  
Bent 3 columns 1 and 2 have spalls with exposed rebar.

**Remarks**

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**Asset #B3289(Routine)**

**I-55NB-12-LM 48.29 over SH 140-SEC 2**

**Location: JCT OF I40 & I55**

**Team Lead: Richard Jones, Inspection Date: 10/27/2022**

**Date Reported:** 10/09/2014  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Deck

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#### **Deficiency Description**

Deck has several unsealed longitudinal and transverse cracks. Deck has areas of minor abrasion.  
Overhangs have a few transverse cracks with efflorescence.  
Span 2 Rt overhang is spalled with rebar exposed over bent 2.

#### **Remarks**

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Rt overhang



Longitudinal cracks





**Asset #B3289(Routine)**

**I-55NB-12-LM 48.29 over SH 140-SEC 2**

**Location: JCT OF I40 & I55**

**Team Lead: Richard Jones, Inspection Date: 10/27/2022**



**Date Reported:** 10/09/2014  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Superstructure

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#### Deficiency Description

Bearings have some pack rust and section loss, especially at abutments.  
Span 1 bent 1 bearing 4 has up to 1/4" gap between masonry and sole plates.  
Span 2 bent 2 bearings are rotated back. Bearings 2, 3, 4, and 6 are at or near max rotation.  
Span 2 bent 2 bearing 3 has one missing bolt between sole plate and bottom flange.  
Span 2 bent 3 fixed bearing 1 is rotated ahead and has a 1/4" gap between cap and masonry plate on back side.  
Span 3 bent 3 fixed bearing 6 is rotated back and has a 1/2" gap between cap and masonry plate on ahead side.

#### Remarks

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Span 1 bent 1 bearing 4



Span 2 bent 2 rocker bearings



Span 2 bent 2 rocker bearings 3 - 6



Span 2 bent 2 rocker bearings 1 - 3





Span 3 bent 3 bearing 6





Span 1 bent 1 bearing 4





**Asset #B3289(Routine)**

**I-55NB-12-LM 48.29 over SH 140-SEC 2**

**Location: JCT OF I40 & I55**

**Team Lead:** Richard Jones, **Inspection Date:** 10/27/2022

**Date Reported:** 10/24/2016  
**Priority:** D- Routine  
**Type of Work:** Replace (General)  
**Status:** Monitor  
**Component:** Element

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**Deficiency Description**

Compression seals are ripped and torn with some areas losing adhesion. Some are pulled out or missing.

**Remarks**

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Bent 2 joint



Bent 4 joint



**Asset #B3289(Routine)**

**I-55NB-12-LM 48.29 over SH 140-SEC 2**

**Location: JCT OF I40 & I55**

**Team Lead: Richard Jones, Inspection Date: 10/27/2022**





**Asset #B3289(Routine)**

**I-55NB-12-LM 48.29 over SH 140-SEC 2**

**Location: JCT OF I40 & I55**

**Team Lead:** Richard Jones, **Inspection Date:** 10/27/2022

## **Routine Maintenance**

Check Box Maintenance Items

<b>Data Field</b>	<b>Value</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 - Hydo and LMC Advised	

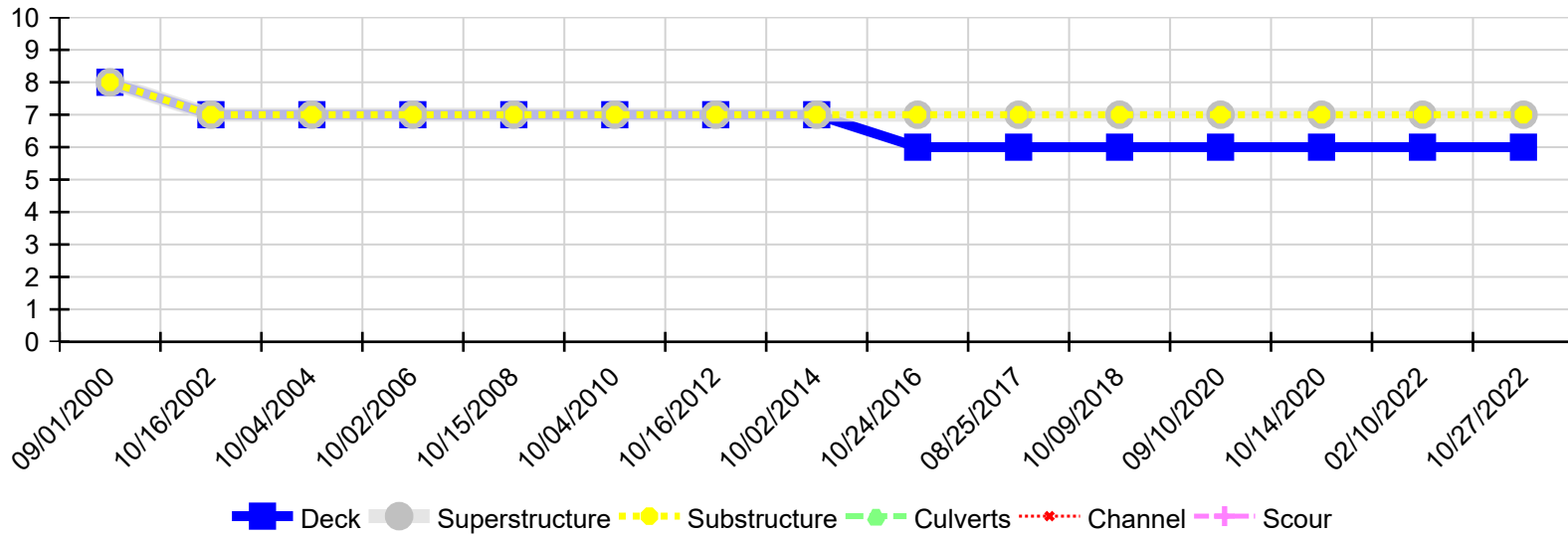


**Asset #B3289(Routine)**  
**I-55NB-12-LM 48.29 over SH 140-SEC 2**

**Location: JCT OF I40 & I55**

**Team Lead: Richard Jones, Inspection Date: 10/27/2022**

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/27/2022	6	7	7	N	N	N
02/10/2022	6	7	7	N	N	N
10/14/2020	6	7	7	N	N	N
09/10/2020	6	7	7	N	N	N
10/09/2018	6	7	7	N	N	N
08/25/2017	6	7	7	N	N	N
10/24/2016	6	7	7	N	N	N
10/02/2014	7	7	7	N	N	N
10/16/2012	7	7	7	N	N	N
10/04/2010	7	7	7	N	N	N
10/15/2008	7	7	7	N	N	N
10/02/2006	7	7	7	N	N	N
10/04/2004	7	7	7	N	N	N
10/16/2002	7	7	7	N	N	N
09/01/2000	8	8	8	N	N	N