

Bridge X1074 Inspection Report



Latitude:35.67171, Longitude:-90.70401

Route:1 Section:16 Log:7.68

Arnold Road ID:56x1x16xA, Arnold Log mile:7.586

District 10, 111 - Poinsett County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

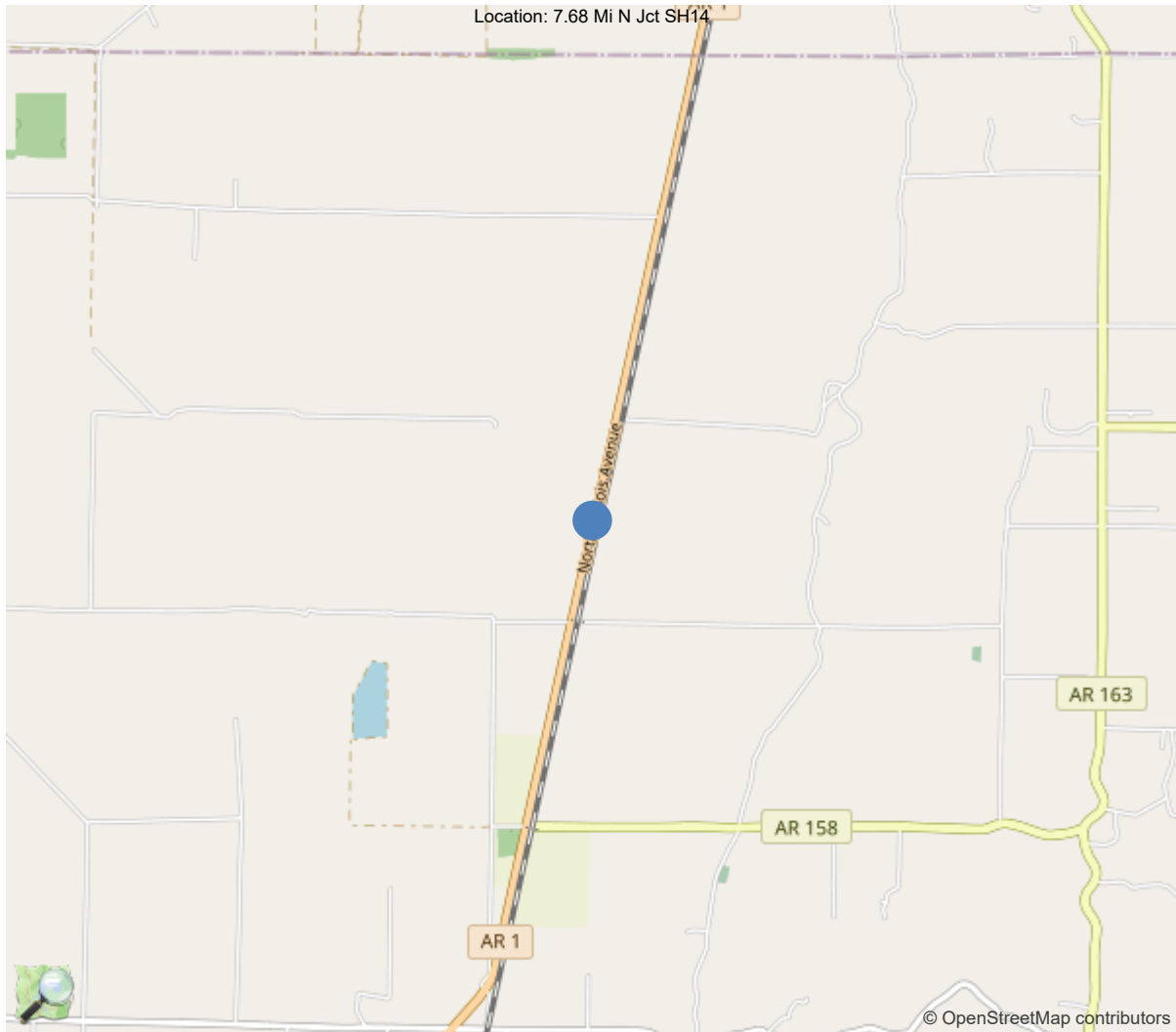
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	27		
Code 9 (31 Tons)	41		
Code 5 (40 Tons)	48		

If calculated capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner.



30"x36" AR



35.67171, -90.70401

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	X1074
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	111 - Poinsett County
(4) Place Code	0
(6) Features Intersected	DITCH
(7) Facility Carried	SH 1-16- LM 7.68
(9) Location	7.68 Mi N Jct SH14
(11) Mile Point	7.68 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000001160
(16) Latitude	35.67171
(17) Longitude	-90.70401
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	119
Material	1 - Concrete
Type	19 - Culvert
(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	N - Not applicable
(108) Wearing Surface/Protective System	
Type of Wearing Surface	N - Not applicable (applies only to stru
Type of Membrane	N - Not applicable (applies only to stru
Type of Deck Protection	N - Not applicable (applies only to stru
AGE AND SERVICE	
(27) Year Built	1975
(106) Year Reconstructed	2003
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	3
Under	0
(29) Average Daily Traffic	7500
(30) Year of ADT	2024
(109) Truck ADT	%
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	9.2 ft
(49) Structure Length	27.3 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	0 ft
(52) Deck Width Out to Out	0 ft
(32) Approach Roadway Width (W/Shoulders)	35.1 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	99.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	1
(26) Functional Class	2 - Rural Principal 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	N
(59) Superstructure	N
(60) Substructure	N
(61) Channel & Channel Protection	7
(62) Culverts	6
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	30
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	18
(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	N
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(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	8 - 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	6830
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			12/02/2025
(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.			

Team Lead: Cory Shaw, Inspection Date: 12/02/2025

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	X1074
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1975

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	111 - Poinsett County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	10 - District 10
B.L.05 Latitude	35.67171
B.L.06 Longitude	-90.70401
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	7.68 Mi N Jct SH14
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	27.3
B.G.02 Total Bridge Length	27.2
B.G.03 Max Span Length	9.2
B.G.04 Min Span Length	8.1
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	0
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	35.1

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	30
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	4
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	

LOADS AND LOAD RATING	
B.LR.01 Design Load	H20 - H-20
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	0.5
B.LR.06 Operating Load Rating Factor	0.83
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	Bridge does not carry routine permi

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	N - NOT APPLICABLE - Component
B.C.02 Superstructure Condition	N - NOT APPLICABLE - Component
B.C.03 Substructure Condition	N - NOT APPLICABLE - Component
B.C.04 Culvert Condition	6 - SATISFACTORY - Widespread
B.C.05 Bridge Railing Condition	N - NOT APPLICABLE - Component
B.C.06 Bridge Railing Transitions Condition	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	7 - GOOD - Some minor defects.
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	8 - Insignificant scour.
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
B.AP.03 Scour Vulnerability	0 - Scour appraisal has not been co
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Cory Shaw, Inspection Date: 12/02/2025

SPAN SETS			
C1			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	0 - None
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	
B.SP.05 Span Continuity	7 - Buried	B.SP.11 Deck Protective System	
B.SP.06 Span Type	F02 - Frame - four-sided	B.SP.12 Deck Reinforcing Protective System	
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	

SUBSTRUCTURE SETS			
A1			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	F01 - Footing - not on rock
B.SB.04 Substructure Type	A01 - Abutment - cantilever/wa	B.SB.07 Foundation Protective System	0 - None
P1			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	F01 - Footing - not on rock
B.SB.04 Substructure Type	P01 - Pier - wall	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
H1			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	6600
B.F.03 Feature Name	SH 1-16- LM 7.68	B.H.10 Annual ADTT	66
B.H.01 Functional Classification	3 - Principal Arterial - Other	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID	11601	B.H.16 Highway Max Usable Surface Width	99.9
B.H.07 LRS Mile Point	7.68	B.H.17 Bypass Detour Length	3
B.H.08 Lanes On Highway	3	B.H.18 Crossing Bridge Number	

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	R01	1	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline



Team Lead: Cory Shaw, Inspection Date: 12/02/2025

WATERWAY FEATURES

W1			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	DITCH	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

POSTING STATUS DATA

B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent - Open	

LOAD EVALUATION AND POSTING

B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value
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Asset #X1074(Routine)
SH 1-16- LM 7.68 over DITCH
Location: 7.68 Mi N Jct SH14

Team Lead: Cory Shaw Inspection Date: 12/02/2025

Inspection Notes

62 - Culverts (6 - Deterioration or initial disintegration, minor chloride contamination, cracking with some leaching, or spalls on concrete or masonry walls and slabs. Local minor scouring at curtain walls, wingwalls or pipes. Metal culverts have a smooth curvature, non-symmetrical shape, significant corrosion or moderate pitting.)
Overall, the box culvert is in Satisfactory condition.

A-63 - Missing/Incorrect Log Mile Signage (Y)

Missing Log mile postings and object markers.

A-64 - Vegetation Removal Requested (Y)

Dense vegetation growing in channel.

Team Lead: Cory Shaw Inspection Date: 12/02/2025

National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
241	Reinforced Concrete Culvert	LF	336	274	49	13	0
1080	Delamination/Spall/Patched Area	LF	3	0	1	2	0
1090	Exposed Rebar	LF	2	0	2	0	0
1120	Efflorescence/Rust Staining	LF	46	0	37	9	0
1130	Cracking (RC and Other)	LF	2	0	0	2	0
1190	Abrasion/Wear (PSC/RC)	LF	9	0	9	0	0
(241) Top slab and walls have several minor to moderate efflorescence cracks, some with rust stains. Eff. 37' CS2, 9' CS3							
Headwall has moderate vertical cracks above Barrels 2 & 3 division walls on both Left & Right ends. Cracks 2' CS3							
Barrel 1 has a delaminated area at connection to Left Wing. Delam. 2' CS3							
Barrel 1 Right Wing has minor erosion behind the wing.							
Barrel 2 top slab has minor honeycombed areas near Left end. 9' CS2							
Barrel 3 Right end crack & delaminated area at connection to wing. Delam. 1' CS2							
Barrel 3 division wall has a 2' spall with exposed rebar on Left end where wing was removed when structure was lengthened. Rebar 2' CS2							
All barrels have up to 6" of sediment buildup.							

Inspection Photos and Notes



Elevation



Channel Right



Channel Left



Headwall has a moderate vertical crack above Barrel 2 & 3 division wall on Left end.



Headwall has a moderate vertical crack above Barrel 2 & 3 division wall on Right end.



Barrel 2 top slab has minor honeycombed areas near Left end.



Barrel 3 Right end crack & delaminated area at connection to wing.



Roadway



Channel on the Left.



Channel on the Left.

Maintenance Needs

Date Reported: 11/03/2011

Priority: D- Routine

Type of Work: Miscellaneous

Status: Monitor

Component: Culverts

Deficiency Description

Barrel 1 has a delaminated area at connection to Left Wing.
Barrel 3 division wall has a 2' spall with exposed rebar on Left end where wing was removed when structure was lengthened.

Remarks



Barrel 3 division wall on Left



Barrel 1 near Left Wing



Barrel 3 Lt

Maintenance Needs

Date Reported: 12/03/2025

Priority: D- Routine

Type of Work: Miscellaneous

Status: Open

Component: Culverts

Deficiency Description

Barrel 1 Right Wing has minor erosion behind the wing.

Remarks



Barrel 1 Right Wing has minor erosion behind the wing.

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	Yes
A-64 - Vegetation Removal Requested	Yes
A-65 - Clogged deck drains?	No
A-66 - Approach minor pothole/leveling needed	No

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (No)



Asset #X1074(Routine)
SH 1-16- LM 7.68 over DITCH
Location: 7.68 Mi N Jct SH14

Team Lead: Cory Shaw **Inspection Date:** 12/02/2025

A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (No)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (Yes)

Missing Log mile postings and object markers.

A-64 - Vegetation Removal Requested (Yes)

Dense vegetation growing in channel.



Channel on the Left.



Channel on the Left.

A-65 - Clogged deck drains? (No)

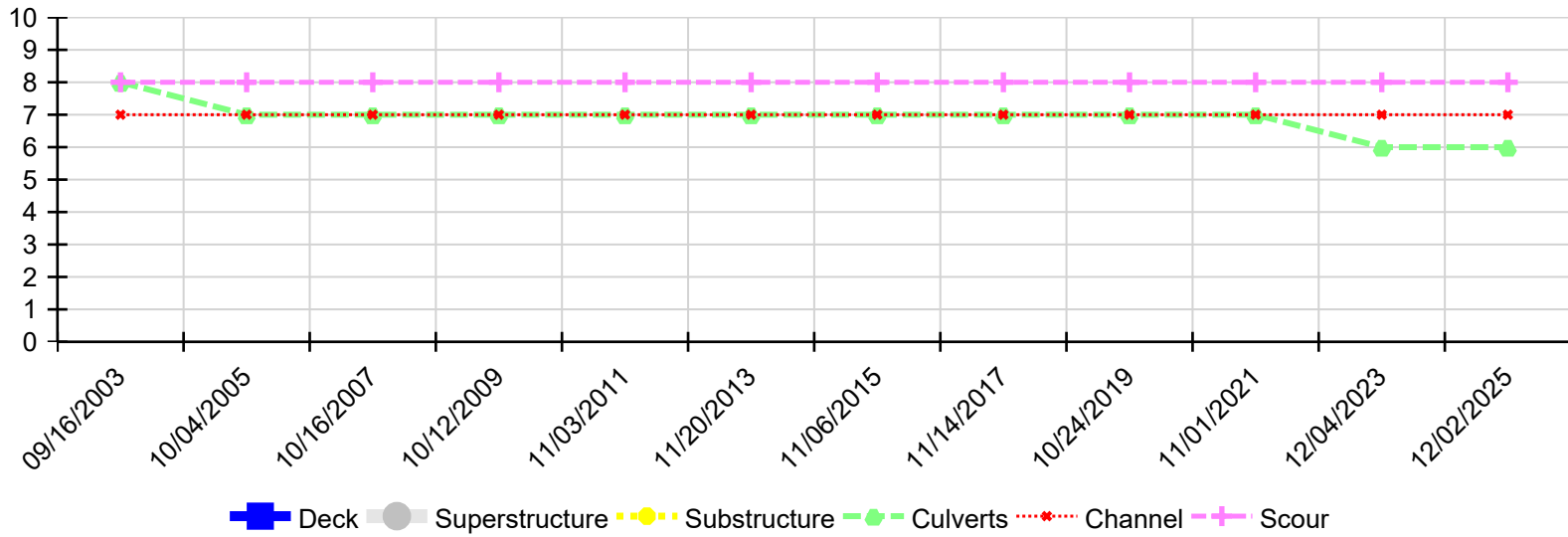
A-66 - Approach minor pothole/leveling needed (No)



Asset #X1074(Routine)
SH 1-16- LM 7.68 over DITCH
Location: 7.68 Mi N Jct SH14

Team Lead: Cory Shaw Inspection Date: 12/02/2025

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
12/02/2025	N	N	N	6	7	8
12/04/2023	N	N	N	6	7	8
11/01/2021	N	N	N	7	7	8
10/24/2019	N	N	N	7	7	8
11/14/2017	N	N	N	7	7	8
11/06/2015	N	N	N	7	7	8
11/20/2013	N	N	N	7	7	8
11/03/2011	N	N	N	7	7	8
10/12/2009	N	N	N	7	7	8
10/16/2007	N	N	N	7	7	8
10/04/2005	N	N	N	7	7	8
09/16/2003	N	N	N	8	7	8