

Bridge 00680 Inspection Report



Latitude:35.82811, Longitude:-92.56205

Route:66 Section:01 Log:0.003

Arnold Road ID:64x66x1xA, Arnold Log mile:0.028

District 09, 129 - Searcy County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

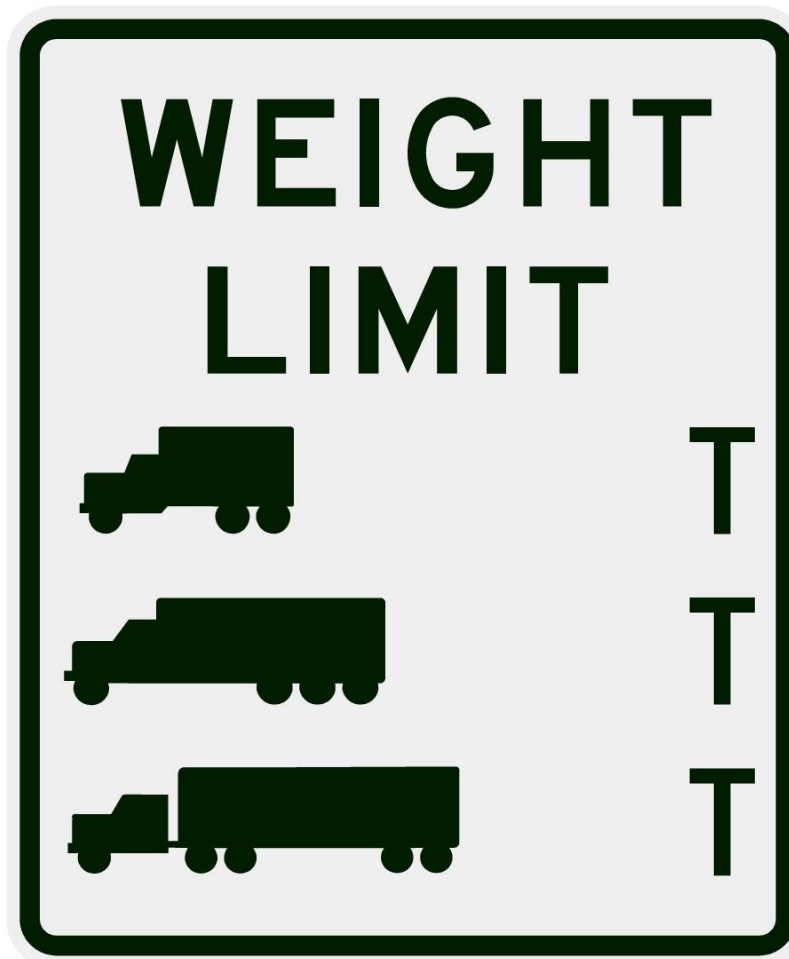
Bridge Posting Information

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

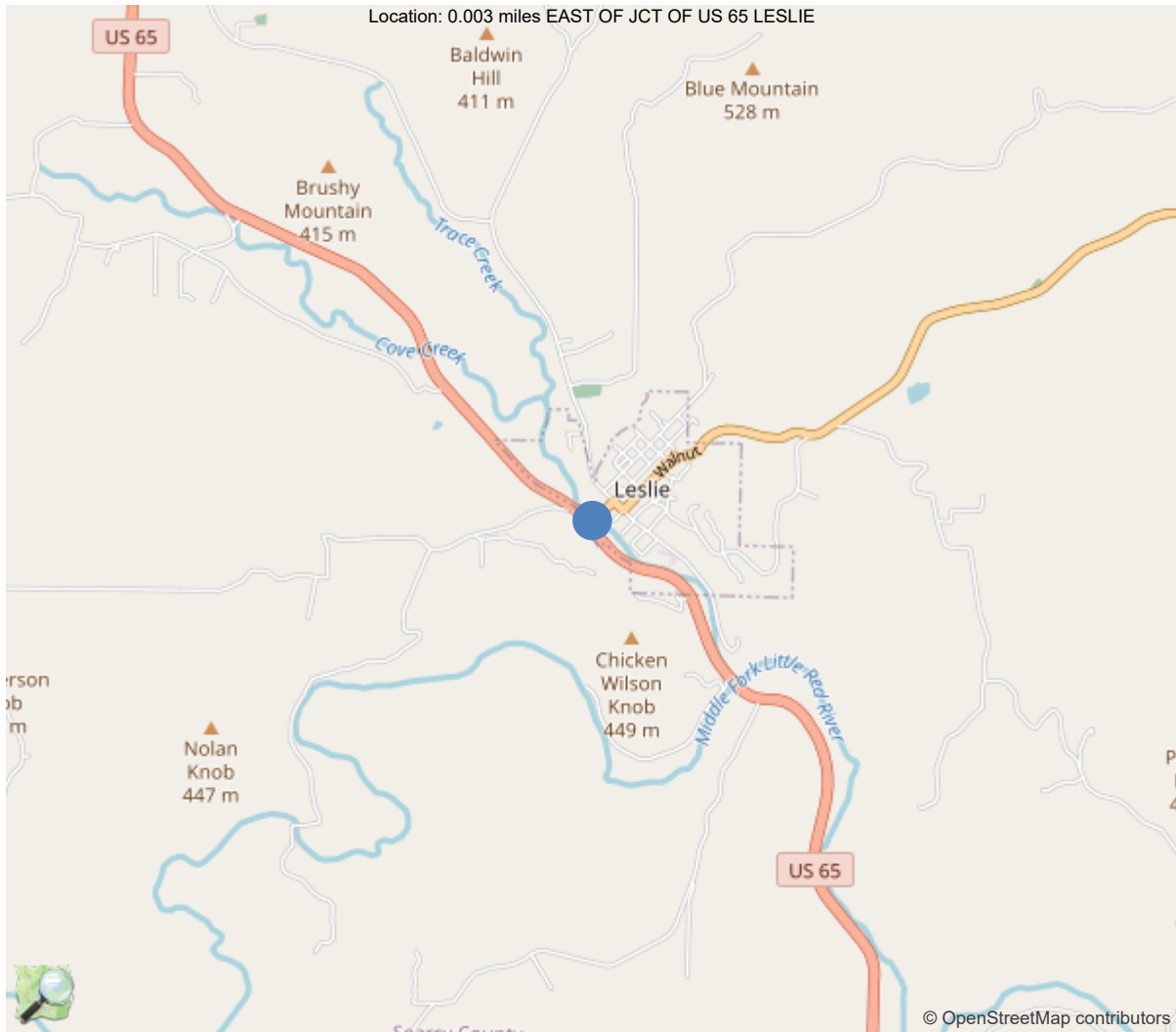
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	48		
Code 5 (40 Tons)	54		

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



35.82811, -92.56205

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00680
(5) Inventory Route	1
(2) Highway Agency District	09 - District 09
(3) County Code	129 - Searcy County
(4) Place Code	39460
(6) Features Intersected	COVE CREEK
(7) Facility Carried	SH 66 Searcy
(9) Location	0.003 miles EAST OF JCT OF US 65 LESLIE
(11) Mile Point	0.003 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.82811
(17) Longitude	-92.56205
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee beam
(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	1930
(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	2500
(30) Year of ADT	2018
(109) Truck ADT	6 %
GEOMETRIC DATA	
(48) Length of Maximum Span	55 ft
(49) Structure Length	167.1 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	23 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	21 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	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	2 - Bridge is eligible for the
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(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	55
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	33
(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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(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	31 - Replacement of bridge or
(76) Length of Structure Improvement	198 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 117
(96) Total Project Cost	\$ 452
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	2600
(115) Year of Future ADT	2040

INSPECTIONS *			
(90) Inspection Date			09/10/2024
(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: Benjamin Smith, Inspection Date: 09/10/2024

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	00680
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1930

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	129 - Searcy County
B.L.03 Place Code	39460 - Leslie
B.L.04 Highway Agency District	09 - District 09
B.L.05 Latitude	35.82811
B.L.06 Longitude	-92.56205
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	0.003 MI E JCT 65 LESLIE
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	2 - Bridge is eligible for the Nati
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	165
B.G.02 Total Bridge Length	167
B.G.03 Max Span Length	55.1
B.G.04 Min Span Length	55
B.G.05 Bridge Width Out-to-Out	23
B.G.06 Bridge Width Curb-to-Curb	20
B.G.07 Left Curb or Sidewalk Width	0.7
B.G.08 Right Curb or Sidewalk Width	0.7
B.G.09 Approach Roadway Width	22

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	15
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	3835.2

LOADS AND LOAD RATING	
B.LR.01 Design Load	H15 - H-15
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	0.92
B.LR.06 Operating Load Rating Factor	1.53
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	N - No E/E' 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	6 - SATISFACTORY - Widespread
B.C.02 Superstructure Condition	6 - SATISFACTORY - Widespread
B.C.03 Substructure Condition	6 - SATISFACTORY - Widespread
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	6 - SATISFACTORY - Widespread
B.C.06 Bridge Railing Transitions Condition	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	7 - GOOD - Some minor defects.
B.C.08 Bridge Joints Condition	6 - SATISFACTORY - Widespread
B.C.09 Channel Condition Rating	6 - SATISFACTORY - Widespread
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	5 - Moderate scour; strength a
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
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: Benjamin Smith, Inspection Date: 09/10/2024

SPAN SETS			
M1			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	2	B.SP.09 Deck Material and Type	CR-T - TEMP - concrete cast-in
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	C01 - Concrete - monolithic
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	G03 - Girder/beam - tee-beam	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

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	F02 - Footing - 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	F02 - Footing - on rock
B.SB.04 Substructure Type	B02 - Bent - column with web w	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	2500
B.F.03 Feature Name	SH 66 Searcy	B.H.10 Annual ADTT	150
B.H.01 Functional Classification	5 - Major Collector	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	N - Non-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		B.H.16 Highway Max Usable Surface Width	20.9
B.H.07 LRS Mile Point	0.003	B.H.17 Bypass Detour Length	16
B.H.08 Lanes On Highway	2	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	66	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline



Team Lead: Benjamin Smith, Inspection Date: 09/10/2024

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	COVE CREEK	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



Inspection Notes

General Observation

Structure is logged from SW to NE and is accessible with a ladder.
No bat activity was noted.

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

The driving surface has been roto milled in the past. The deck has asphalt repaired areas.
The undersurface has areas of shallow exposed rebar in the overhangs.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

The tee beams have a few areas of delamination. Tee beam #1 has been repaired at abutment #1. Tee beam #2 has been repaired at abutment #2.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

The abutments have cs2 cracking with hairline map cracking.

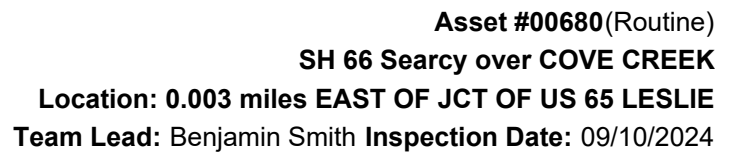
The pier caps have cs2 cracking with hairline map cracking.

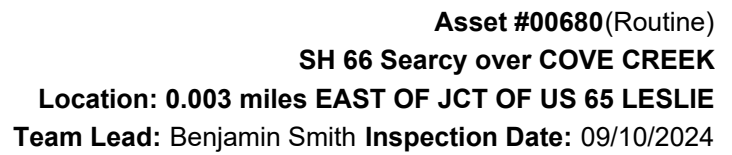
61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

The upstream channel is well vegetated.

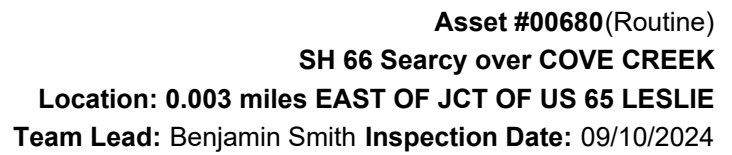
The channel beneath the structure flows mainly in spans #1,2. The footings exposed at pier #1 with no undermining.

The downstream channel is well vegetated.





ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
<p>Span #3-</p> <p>Tee beam #1- has a small area of honeycombing with a small area of exposed cs3 rebar at the beginning of the span.</p> <p>Tee beam #2- has cs3 delamination for 2' at the end of the beam and is showing signs of crushing at the end of span #3 over the abutment #2 bearing. This area has been repaired.</p> <p>Both beams have vertical hairline flexure cracking.</p>							
205	Reinforced Concrete Column	EA	4	0	4	0	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
<p>(205)</p> <p>Pier wall #1-</p> <p>Left column- has areas of hairline map cracking with vertical cracking and minor delamination. The column has the footing exposed with 16" of vertical face exposed.</p> <p>Right column- has areas of hairline map cracking with vertical cracking. The column has the footing exposed with 21" of vertical face exposed</p> <p>Pier wall #2-</p> <p>Left column- has map cracking through out its height.</p> <p>Right column- has map cracking through out its height.</p>							
210	Reinforced Concrete Pier Wall	LF	20	0	20	0	0
1130	Cracking (RC and Other)	LF	20	0	20	0	0
<p>(210)</p> <p>The pier walls consist of 10' of web wall between the columns.</p> <p>Pier wall #1- has hairline map cracking for its entire length with vertical hairline cracks.</p> <p>Pier wall #2-has hairline map cracking for its entire length with vertical hairline cracks.</p>							
215	Reinforced Concrete Abutment	LF	124	8	115	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	115	0	115	0	0
<p>(215) Abutment #1- has map cracking with vertical cs2 cracking for its width.</p> <p>Wing walls- are integral.</p> <p>Right wing wall- is entirely map cracked.</p> <p>Left wing wall- has 13' of map cracking.</p> <p>Abutment #2- has map cracking with vertical cs2 cracking for its width with 1' of cs3 delamination under beam #2. The lower 2' of the vertical face of the wall has cs2 abrasion for the length of the wall. The footing has rip rap placed over it as a work platform.</p> <p>Wing walls- are integral.</p> <p>Left wing wall- is entirely hairline map cracked.</p> <p>Right wing wall- is entirely hairline map cracked.</p>							
220	Reinforced Concrete Pile Cap/Footing	LF	58	58	0	0	0
<p>(220) The footing is exposed for the full length of pier #1.</p> <p>No deficiencies noted.</p>							
234	Reinforced Concrete Pier Cap	LF	33	29	4	0	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
<p>(234)</p> <p>Pier wall #1 cap- has 2' of vertical cs2 cracking, one on each end.</p>							



Inspection Photos and Notes



Elevation view.



Rip rap has been placed at abutment #2 as a work platform.



Downstream channel view.



Undersurface view.



Channel beneath the structure.



Possible sewage leak at abutment #1.



Approach view in direction of log mile.



Upstream channel view.



Driving surface view.

Maintenance Needs

Date Reported: 12/13/2010

Priority: C - Important

Type of Work: Superstructure Repair

Status: Repair Documented

Component:

Deficiency Description

Tee beam #2 has spalling with rebar exposed over abutment #1 on the interior side.

Remarks

It was noted during the routine inspection that this area has been repaired. BDS 2024



Inside view of girder #2 over abutment #1

Maintenance Needs

Date Reported: 09/10/2014

Priority: C - Important

Type of Work: Superstructure Repair

Status: Repair Documented

Component:

Deficiency Description

Tee beam #2 at abutments #1 and #2 has cracking at the bridge seat. The tee beam is nearly in contact with the top of the abutment wall at abutment #1.

Remarks

It was noted during the routine inspection that the tee beams have been repaired.



Repairs at tee beam #2 over abutment #2.



Tee beam #2 over abutment #1 has been repaired.



View of the exterior bearing area of beam #2 over abutment #1. Showing deterioration and crushing. The bottom edge of the tee is nearly in contact with the top face of the abutment



Small amount of Crushing at girder#2 at abutment #2.

Maintenance Needs

Date Reported: 09/10/2024

Priority: D- Routine

Type of Work: Miscellaneous

Status: Repair Documented

Component: Channel

Deficiency Description

Vegetation / Trees under structure in spans #1 and #3.

Remarks

It was noted during the routine inspection that the vegetation has been removed.



Vegetation has been cleared.



Vegetation under structure.



Asset #00680(Routine)

SH 66 Searcy over COVE CREEK

Location: 0.003 miles EAST OF JCT OF US 65 LESLIE

Team Lead: Benjamin Smith Inspection Date: 09/10/2024

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	No
A-64 - Vegetation Removal Requested	No
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

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



Asset #00680(Routine)

SH 66 Searcy over COVE CREEK

Location: 0.003 miles EAST OF JCT OF US 65 LESLIE

Team Lead: Benjamin Smith Inspection Date: 09/10/2024

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 (No)

A-64 - Vegetation Removal Requested (No)

A-65 - Clogged deck drains?



Asset #00680(Routine)

SH 66 Searcy over COVE CREEK

Location: 0.003 miles EAST OF JCT OF US 65 LESLIE

Team Lead: Benjamin Smith Inspection Date: 09/10/2024

A-66 - Approach minor pothole/leveling needed



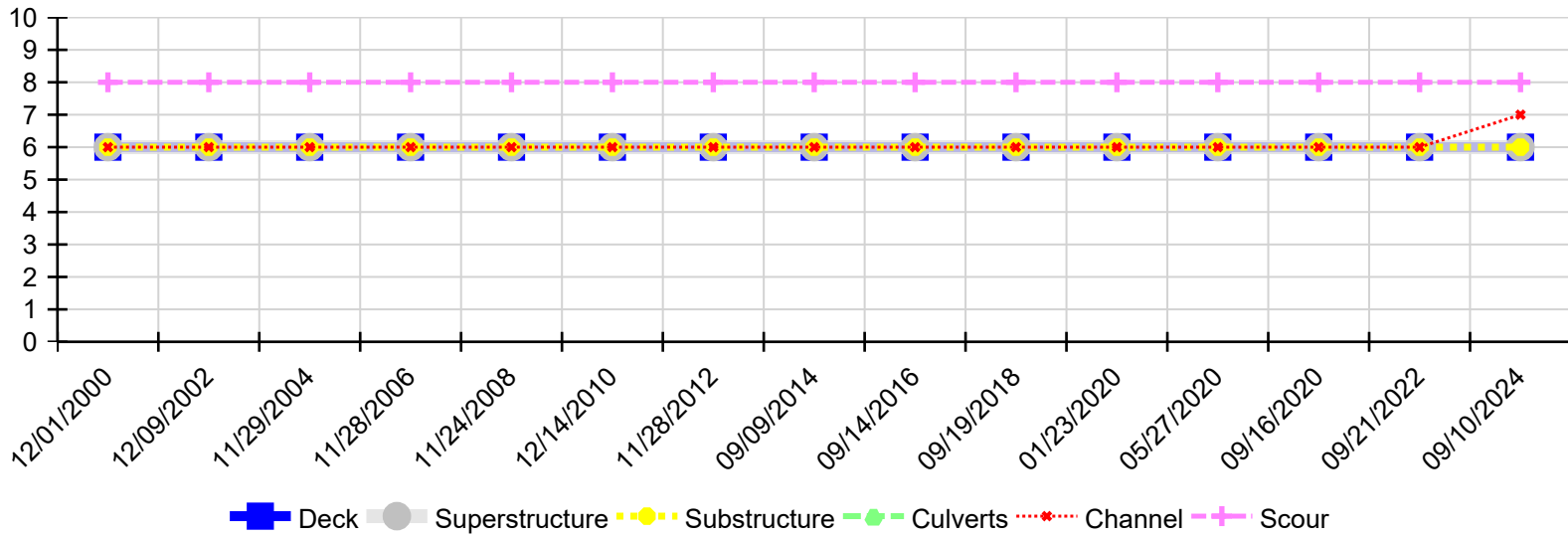
Asset #00680(Routine)

SH 66 Searcy over COVE CREEK

Location: 0.003 miles EAST OF JCT OF US 65 LESLIE

Team Lead: Benjamin Smith Inspection Date: 09/10/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/10/2024	6	6	6	N	7	8
09/21/2022	6	6	6	N	6	8
09/16/2020	6	6	6	N	6	8
05/27/2020	6	6	6	N	6	8
01/23/2020	6	6	6	N	6	8
09/19/2018	6	6	6	N	6	8
09/14/2016	6	6	6	N	6	8
09/09/2014	6	6	6	N	6	8
11/28/2012	6	6	6	N	6	8
12/14/2010	6	6	6	N	6	8
11/24/2008	6	6	6	N	6	8
11/28/2006	6	6	6	N	6	8
11/29/2004	6	6	6	N	6	8
12/09/2002	6	6	6	N	6	8
12/01/2000	6	6	6	N	6	8