

Bridge 03137 Inspection Report



Latitude:35.30695, Longitude:-90.25215

Route:50 Section:04 Log:9.2

Arnold Road ID:18x50x4xA, Arnold Log mile:9.17

District 01, 35 - Crittenden County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

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

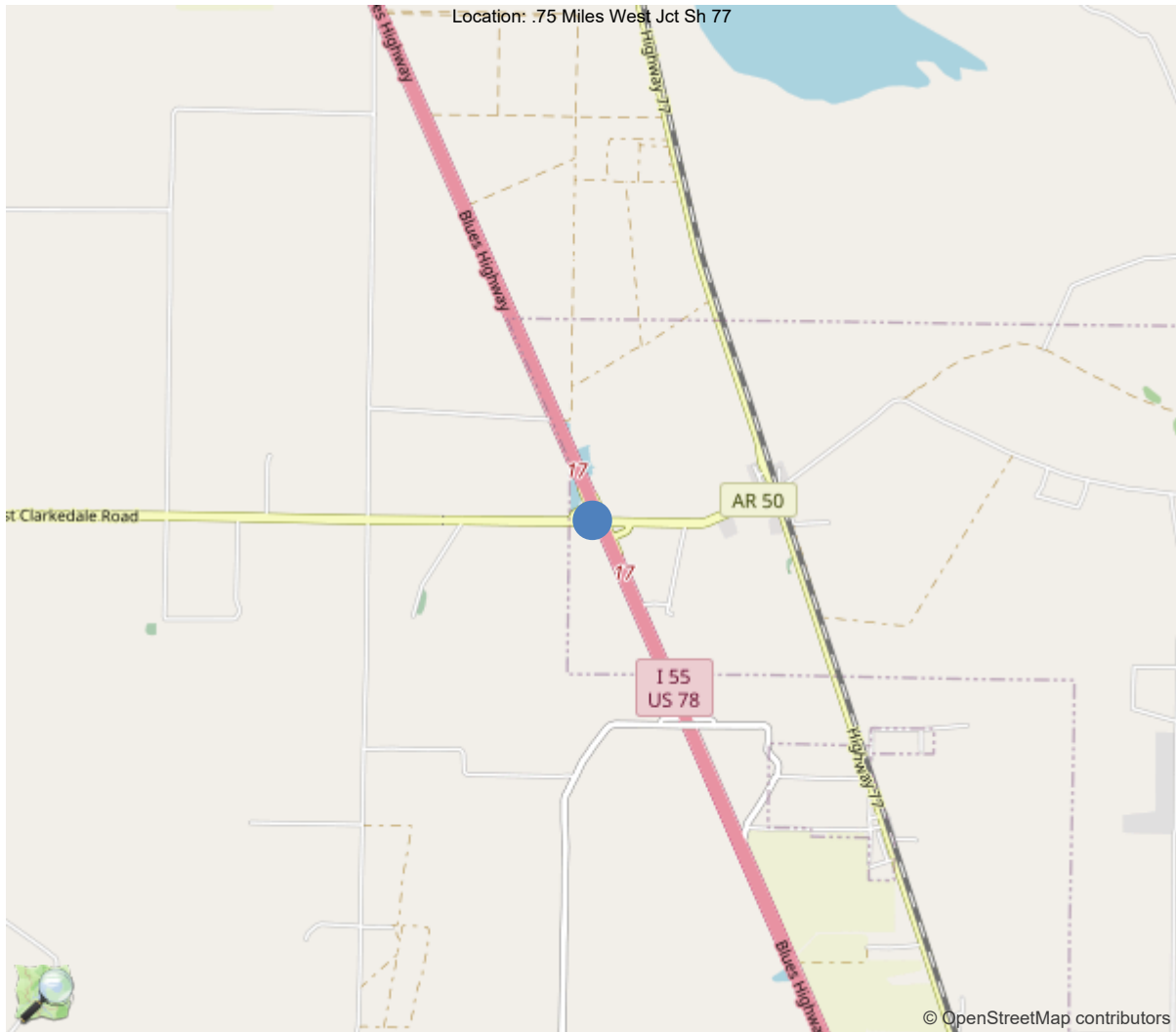
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	55		

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



35.30695, -90.25215

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03137
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	35 - Crittenden County
(4) Place Code	14050
(6) Features Intersected	I-55/Sec-11/L-17.11
(7) Facility Carried	Sh-50/Sec-4/L-9.20
(9) Location	.75 Miles West Jct Sh 77
(11) Mile Point	9.2 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.30695
(17) Longitude	-90.25215
(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	6
(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	1958
(106) Year Reconstructed	1980
(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	8
(29) Average Daily Traffic	180
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	65 ft
(49) Structure Length	342.5 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	25 ft
(52) Deck Width Out to Out	27.5 ft
(32) Approach Roadway Width (W/Shoulders)	33 ft
(33) Bridge Median	0 - No median
(34) Skew	24 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	25 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.19 ft
Ref:	
(55) Min Lat Underclear RT	6.4 ft
Ref:	
(56) Min Lat Underclear LT	6.1 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	6
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
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	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	
(68) Deck Geometry	5
(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	556
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			02/28/2024
(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		
<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>			

Team Lead: Drew Melton, Inspection Date: 02/28/2024

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	03137
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1958

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	35 - Crittenden County
B.L.03 Place Code	14050 - Clarkedale
B.L.04 Highway Agency District	01 - District 01
B.L.05 Latitude	35.30695
B.L.06 Longitude	-90.25215
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	.75 Miles West Jct Sh 77
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	336.5
B.G.02 Total Bridge Length	342.5
B.G.03 Max Span Length	65
B.G.04 Min Span Length	40
B.G.05 Bridge Width Out-to-Out	27.6
B.G.06 Bridge Width Curb-to-Curb	24.9
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	33.1

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	24
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	19
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	9439.5

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	1
B.LR.06 Operating Load Rating Factor	1.67
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	Y - E/E' details are present
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	7 - GOOD - Some minor defects.
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	6 - SATISFACTORY - Widespread
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	6 - SATISFACTORY - Widespread
B.C.07 Bridge Bearings Cond.	6 - SATISFACTORY - Widespread
B.C.08 Bridge Joints Condition	6 - SATISFACTORY - Widespread
B.C.09 Channel Condition Rating	N - NOT APPLICABLE - Bridge do
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	N - Bridge does not cross over
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	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Drew Melton, Inspection Date: 02/28/2024

SPAN SETS			
M1			
B.SP.02 # of Spans	6	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	5	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	S01 - Steel - rolled	B.SP.10 Wearing Surface	B01 - Bituminous (asphalt)
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	CX - Coating - other
B.SP.06 Span Type	G02 - Girder/beam - I-shaped s	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	C01 - Coating - paint	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	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
P1			
B.SB.02 No. of Substructure Units	5	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	P03 - Pier - multiple column	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	180
B.F.03 Feature Name	Sh-50/Sec-4/L-9.20	B.H.10 Annual ADTT	1
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	24.9
B.H.07 LRS Mile Point	9.2	B.H.17 Bypass Detour Length	6
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number	

Team Lead: Drew Melton, Inspection Date: 02/28/2024

H2			
B.F.02 Feature Location	B - Below bridge	B.H.09 Annual ADT	14000
B.F.03 Feature Name	I 55-SEC 11	B.H.10 Annual ADTT	140
B.H.01 Functional Classification	1 - Interstate	B.H.11 Year of Annual ADT	2014
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	16.5
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance	16.1
B.H.04 National Highway Freight Network	1-T - TEMP - NHFN - 1 or 2 or	B.H.14 Highway Min Horizontal Clearance, Left	5.9
B.H.05 STRAHNET Designation	1 - STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	6.2
B.H.06 LRS Route ID	55110	B.H.16 Highway Max Usable Surface Width	43.3
B.H.07 LRS Mile Point	17.106	B.H.17 Bypass Detour Length	1
B.H.08 Lanes On Highway		B.H.18 Crossing Bridge Number	
H3			
B.F.02 Feature Location	B - Below bridge	B.H.09 Annual ADT	14000
B.F.03 Feature Name	I 55-SEC 11	B.H.10 Annual ADTT	140
B.H.01 Functional Classification	1 - Interstate	B.H.11 Year of Annual ADT	2014
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	16.3
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance	
B.H.04 National Highway Freight Network	1-T - TEMP - NHFN - 1 or 2 or	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	1 - STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID	55110	B.H.16 Highway Max Usable Surface Width	42.6
B.H.07 LRS Mile Point	17.106	B.H.17 Bypass Detour Length	7
B.H.08 Lanes On Highway		B.H.18 Crossing Bridge Number	
H4			
B.F.02 Feature Location	B - Below bridge	B.H.09 Annual ADT	14000
B.F.03 Feature Name	I 55-SEC 11	B.H.10 Annual ADTT	140
B.H.01 Functional Classification	1 - Interstate	B.H.11 Year of Annual ADT	2014
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	16.6
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance	
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	41.3
B.H.07 LRS Mile Point	17.106	B.H.17 Bypass Detour Length	1
B.H.08 Lanes On Highway		B.H.18 Crossing Bridge Number	

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H5			
B.F.02 Feature Location	B - Below bridge	B.H.09 Annual ADT	14000
B.F.03 Feature Name	I 55-SEC 11	B.H.10 Annual ADTT	140
B.H.01 Functional Classification	1 - Interstate	B.H.11 Year of Annual ADT	2014
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	16.3
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance	
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	40.6
B.H.07 LRS Mile Point	17.106	B.H.17 Bypass Detour Length	1
B.H.08 Lanes On Highway		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	50	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline
H2	R01	55S	1-T - TEMP - One-way traffic - NB or EB or SB or WB	1 - Interstate route	1 - Mainline
H3	R01	55N	1-T - TEMP - One-way traffic - NB or EB or SB or WB	1 - Interstate route	1 - Mainline
H4	R01	55S	2-T - TEMP - Two-way traffic - NS or EW	1 - Interstate route	8 - Service or frontage road
H5	R01	55N	2-T - TEMP - Two-way traffic - NS or EW	1 - Interstate route	8 - Service or frontage road

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

Drawing numbers: 23210, 23215, 23222-25, 23232.

02/28/2024 Routine inspection performed. Accessed by walking and use of ladder and binoculars where needed. Underclearance is checked by Bridge Operations with Lidar. Checked width on under route with tape measure, and laser range finder. No lane closure needed for this inspection.

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

Deck is in good condition with surface having cracks and a few minor spalls, and deck under surface has cracks some with efflorescence.

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

Superstructure is in satisfactory condition with some surface rust due to paint failing. Outside girders have some out of plane bending at haunch due to pack rust between girder and haunch.

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

Substructure is in satisfactory condition with pier caps and abutments having cracks and some spalls with some affect on bearing areas. One column has minor reinforcing steel exposed.

A-54 - Sealable Deck Cracks (Y)

Deck surface, All Spans: CS2 transverse cracks are reflecting through overlay and are in gutters various spacing. 3338SF CS2

A-57 - Girder End and Bearing Painting Needed (Y)

All Movable Bearings, Paint has limited to no effectiveness. 30SF CS3, 30SF CS4
50% of paint missing on fixed bearings.
Abutment bearings are corroded with laminations section loss up to 5%.

A-59 - Joint Repair Needed (Y)

Bent 2, Compression Joint Seal: 7' of lost adhesion seal is sagging. 7LF CS3
Bent 3, Compression Joint Seal: 14' of lost adhesion seal is sagging. 14LF CS3
Bent 4, Compression Joint Seal: 18' of lost adhesion seal is sagging. 18LF CS3
Bent 6, Compression Joint Seal: 10' of lost adhesion seal is sagging. 10LF CS3

A-60 - Full Girder Painting Needed (Y)

All Spans, All Girders, Full Length: Paint is discolored and oxidized with minor areas of bare steel full length. 6,445SF CS2, 6,446SF CS3, 678SF CS4

A-61 - Polymer Overlay Advised (Y)

Deck surface, All Spans: CS2 transverse cracks are reflecting through overlay and are in gutters various spacing. 3338SF CS2



Asset #03137(Routine)

Sh-50/Sec-4/L-9.20 over I-55/Sec-11/L-17.11

Location: .75 Miles West Jct Sh 77

Team Lead: Drew Melton Inspection Date: 02/28/2024

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

Log mile signs are incorrect should read Sh-50, Section-4, Log Mile-9.20.

B.C.05 Bridge Railing Condition Rating (7 - GOOD - Some minor defects.)

Bridge rails are in good condition with minor cracks and one spalled area.

B.C.06 Bridge Railing Transitions Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

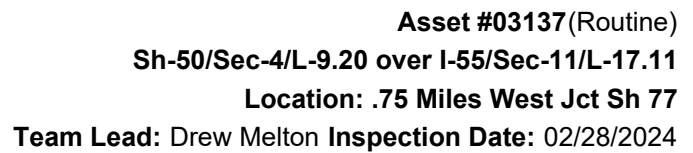
Bridge rail transitions are in satisfactory condition with minor dints and dings.

B.C.07 Bridge Bearings Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

Bearing are in satisfactory condition with surface rust with some minor section loss at abutments.

B.C.08 Bridge Joints Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

Bridge joints are in satisfactory with joint material being weathered and cracked with some areas of sagging.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	9350	5633	3716	1	0
1090	Exposed Rebar	SF	1	0	0	1	0
1120	Efflorescence/Rust Staining	SF	378	0	378	0	0
1130	Cracking (RC and Other)	SF	3338	0	3338	0	0
510	Wearing Surfaces	SF	6840	6036	804	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	4	0	4	0	0
3220	Crack (Wearing Surface)	SF	800	0	800	0	0
(12) Wearing Surface, Span 3, Bent 4, Right: Several small spalls in overlay. 4SF CS2 Wearing Surface, All Spans: Cracks various locations: 800SF CS2 Deck surface, All Spans: CS2 transverse cracks are reflecting through overlay and are in gutters various spacing. 3338SF CS2 Deck Undersurface Overhangs, All Spans: Transverse cracks with light efflorescence. 378SF CS2 Deck Undersurface, All Spans: 2 to 3 transverse hairline cracks. Deck Undersurface Overhang, Left, 4' From Bent 4: 8" spall with exposed reinforcing steel. Reinforcing steel has minor section loss. 1SF CS3							
107	Steel Open Girder/Beam	LF	1700	0	1700	0	0
1000	Corrosion	LF	1700	0	1700	0	0
515	Steel Protective Coating	SF	13569	0	6445	6446	678
3440	Effectiveness (Steel Protective Coatings)	SF	13569	0	6445	6446	678
(107) All Spans, All Girders, Full Length: Paint is discolored and oxidized with minor areas of bare steel full length. 6,445SF CS2, 6,446SF CS3, 678SF CS4 All Spans, All Girders, Full Length, Primarily on Bottom Flange: Areas of minor rust. 1,700LF CS2 All Spans, Girders 1 & 5, All Bents, Haunch: Slight out of plane bending due to pact rust between girder and haunch.							
205	Reinforced Concrete Column	EA	10	9	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
(205) Bent 5, Column 1, Back: 3' piece of cage steel exposed due to poor concrete coverage. 1Each CS3 Bent 5, Column 2, Right: Graffiti							
215	Reinforced Concrete Abutment	LF	97	81	8	8	0
1080	Delamination/Spall/Patched Area	LF	6	0	0	6	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(215) Abutment #2 left side slope paving near girder #1 has 1' spall 10' from abutment #2 cap. Both Abutments, Backwalls: Vertical cracks. 8LF CS2 Both Abutments, Pile Caps: Vertical cracks under bearings.							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Both Abutments, Pier Caps, Top, Under Bearings: Spalled no exposed reinforcing steel. 6LF CS3							
Abutment 1, Left, Top: Spalled exposed reinforcing steel. Reinforcing steel has minor section loss. 2LF CS3							
234	Reinforced Concrete Pier Cap	LF	153	128	17	8	0
1010	Cracking	LF	9	0	5	4	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	13	0	12	1	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
(234) Bent 2, Pier Cap, Back, Under girder 2: 1' spall with exposed reinforcing steel. Reinforcing steel has no section loss. 1LF CS2							
Bent 2, Pier Cap, Back, Under girder 3: 1' spall with exposed reinforcing steel. Reinforcing steel has no section loss. 1LF CS2							
Bent 2, Pier Cap, Back, Under girder 4: 1' spall no exposed reinforcing steel, and CS3 cracks. 1LF CS3							
Bent 2, Pier Cap, Back, Under girder 5: 1' spall with exposed reinforcing steel. Reinforcing steel has no section loss. 1LF CS2							
Bent 3, Pier Cap, Back, Under girder 3: Riser spalled with exposed reinforcing steel. Reinforcing steel has moderate section loss. 1LF CS3							
Bent 3, Pier Cap, Back, Under girder 5: Riser spalled at top no exposed reinforcing steel. 1LF CS3							
Bent 3, Pier Cap, Both Sides: 6' of reinforcing steel exposed due to poor concrete coverage at center. Reinforcing steel has no section loss. 6LF CS2							
Bent 4, Pier Cap, Back: 2' of reinforcing steel exposed due to poor concrete coverage. Reinforcing steel has no section loss. 2LF CS2							
Bent 4, Pier Cap, Ahead: Cracking at top of riser under girder #3 . 1LF CS3							
Bent 5, Pier Cap, Ahead, Under Girder 2: Riser has 1' of cracking. 1LF CS3							
Bent 5, Pier Cap, Back, Under Girder 1 & 2: Risers have cracking. 2LF CS2							
Bent 6, Pier Cap, Ahead: Vertical cracks under girders 1, 2, 5, risers, riser under girder 3 is spalled at top, and riser under girder 4 has cracking with rust staining. 3LF CS2, 1LF CS3, 1LF CS3							
Bent 6, Pier Cap, Bottom: Small spall with exposed reinforcing steel. Reinforcing steel has no section loss. 1LF							
Bent 6, Pier Cap, Back, Under Girder 2: Riser has cracking at top. 1LF CS3							
302	Compression Joint Seal	LF	193	0	144	49	0
2320	Seal Adhesion	LF	49	0	0	49	0
2340	Seal Cracking	LF	144	0	144	0	0
(302) All Joints, Joint steel: Little to no paint left with areas of minor section loss on ends.							
All Joints, Compression Joint Seals: Weathered and cracked. 144LF CS2							
Bent 2, Compression Joint Seal: 7' of lost adhesion seal is sagging. 7LF CS3							
Bent 3, Compression Joint Seal: 14' of lost adhesion seal is sagging. 14LF CS3							
Bent 4, Compression Joint Seal: 18' of lost adhesion seal is sagging. 18LF CS3							
Bent 6, Compression Joint Seal: 10' of lost adhesion seal is sagging. 10LF CS3							
311	Movable Bearing	EA	30	15	15	0	0
1000	Corrosion	EA	15	0	15	0	0
515	Steel Protective Coating	SF	60	0	0	30	30
3440	Effectiveness (Steel Protective Coatings)	SF	60	0	0	30	30
(311) All Movable Bearings, Paint has limited to no effectiveness. 30SF CS3, 30SF CS4							
All Movable Bearings, Surface rust with little to no section loss. 15Each CS2							

Inspection Photos and Notes



Side view/elevation



Typical deck under surface



Typical deck under surface overhang



Typical deck



Top view-inventory



Typical deck crack



Typical bearings



Bent 2, Compression Joint Seal: 7' of lost adhesion seal is sagging. 7LF CS3



03/18/2024

Bent 3, Compression Joint Seal: 14' of lost adhesion seal is sagging. 14LF CS3



03/18/2024

Bent 4, Compression Joint Seal: 18' of lost adhesion seal is sagging. 18LF CS3



03/18/2024

Bent 6, Compression Joint Seal: 10' of lost adhesion seal is sagging. 10LF CS3



03/13/2024

All Spans, All Girders, Full Length: Paint is discolored and oxidized with minor areas of bare steel full length. 6,445SF CS2, 6,446SF CS3, 678SF CS4



Typical deck crack



Abutment 1 log mile sign right side



Typical deck crack



Deck Undersurface Overhang, Left, 4' From Bent 4: 8" spall with exposed reinforcing steel. Reinforcing steel has minor section loss. 1SF CS3



Girders over south bound travel lanes.



All Spans, Girders 1 & 5, All Bents, Haunch: Slight out of plane bending due to pact rust between girder and haunch.



Girders over north bound lanes



Typical girder ends



All Spans, All Girders, Full Length: Paint is discolored and oxidized with minor areas of bare steel full length. 6,445SF CS2, 6,446SF CS3, 678SF CS4



Bent 5, Column 1, Back: 3' piece of cage steel exposed due to poor concrete coverage. 1Each CS3



Bent 5, Column 2, Right: Graffiti



Abutment 1, Left, Top: Spalled exposed reinforcing steel. Reinforcing steel has minor section loss. 2LF CS3



Both Abutments, Backwalls: Vertical cracks. 8LF CS2



Both Abutments, Pile Caps, Top, Under Bearings: Spalled no exposed reinforcing steel. 6LF CS3



Bent 2, Pier Cap, Back, Under girder 2: 1' spall with exposed reinforcing steel. Reinforcing steel has no section loss. 1LF CS2



Bent 2, Pier Cap, Back, Under girder 3: 1' spall with exposed reinforcing steel. Reinforcing steel has no section loss. 1LF CS2



02/28/2024

Bent 2, Pier Cap, Back, Under girder 4: 1' spall no exposed reinforcing steel, and CS3 cracks. 1LF CS3



02/28/2024

Bent 2, Pier Cap, Back, Under girder 5: 1' spall with exposed reinforcing steel. Reinforcing steel has no section loss. 1LF CS2



02/28/2024

Bent 3, Pier Cap, Back, Under girder 5: Riser spalled at top no exposed reinforcing steel. 1LF CS3

Bent 3, Pier Cap, Both Sides: 6' of reinforcing steel exposed due to poor concrete coverage at center. Reinforcing steel has no section loss. 6LF CS2



02/28/2024

Bent 3, Pier Cap, Both Sides: 6' of reinforcing steel exposed due to poor concrete coverage at center. Reinforcing steel has no section loss. 6LF CS2



02/28/2024

Bent 4, Pier Cap, Back: 2' of reinforcing steel exposed due to poor concrete coverage. Reinforcing steel has no section loss. 2LF CS2



02/28/2024

Bent 4, Pier Cap, Ahead: Cracking at top of riser under girder #3 . 1LF CS3



02/28/2024

Bent 5, Pier Cap, Back, Under Girder 1 & 2: Risers have cracking. 2LF CS2



02/28/2024

Bent 5, Pier Cap, Ahead, Under Girder 2: Riser has 1' of cracking. 1LF CS3



02/28/2024

Bent 6, Pier Cap, Back, Under Girder 2: Riser has cracking at top. 1LF CS3



02/28/2024

Bent 6, Pier Cap, Ahead: Vertical cracks under girders 1, 2, 5, risers, riser under girder 3 is spalled at top, and riser under girder 4 has cracking with rust staining. 3LF CS2, 1LF CS3, 1LF CS3



02/15/2022

Bent 3, Pier Cap, Back, Under girder 3: Riser spalled with exposed reinforcing steel. Reinforcing steel has moderate section loss.



02/15/2022

Bent 3, Pier Cap, Back, Under girder 5: Riser spalled at top no exposed reinforcing steel. 1LF CS3



Bent 6, Compression Joint Seal: 10' of lost adhesion seal is sagging. 10LF CS3



Bent 5 joint



Bent 4, Compression Joint Seal: 18' of lost adhesion seal is sagging. 18LF CS3



Bent 3, Compression Joint Seal: 14' of lost adhesion seal is sagging. 14LF CS3



Bent 2, Compression Joint Seal: 7' of lost adhesion seal is sagging. 7LF CS3



All Joints, Compression Joint Seals: Weathered and cracked. 144LF CS2



Typical bearings



Typical bearings



Typical bridge rail crack



Bring rail extension crack full length of structure

Maintenance Needs

Date Reported: 04/17/2018

Priority: B - Pressing

Type of Work: Repair (General)

Status: Open

Component: Approach

Deficiency Description

Abutment 1, Approach Roadway & Shoulder, Left: Large void 5' (depth) under roadway.

Abutment 1, Approach Roadway & Shoulder, Right: Large void under roadway with a failed old repair.

Abutment 2, Approach Roadway & Shoulder, Left: Large void 5' (depth) under roadway.

Abutment 2, Approach Roadway & Shoulder, Right: Small void under roadway.

Remarks



Abutment 1, Approach Roadway & Shoulder, Right: Large void under roadway with a failed old repair.



Abutment 1, Approach Roadway & Shoulder, Left: Large void 5' (depth) under roadway.



Abutment 2, Approach Roadway & Shoulder, Left: Large void 5' (depth) under roadway.



Abutment 2, Approach Roadway & Shoulder, Right: Small void under roadway.

Maintenance Needs

Date Reported: 04/17/2020

Priority: D- Routine

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bent #2 cap under girder #3 right side has one foot spall exposed rebar.

Bent #3 cap back face riser under girder #5 spalled at top.

Bent #3 cap front and back face has six foot of rebar exposed due to poor concrete coverage at center.

All caps have vertical cracks on right and left ends and under risers

Bent #4 back face has two foot of rebar exposed due to poor concrete coverage.

Bent #4 ahead face has cracking at top of riser under girder #3. Cs3

Bent #6 cap ahead face has vertical cracks under girders #1, 2, 5, riser under girder #3 is spalled at top riser under girder

#4 has cracking with rust staining. Cs3

Bent #5 cap ahead face riser under girder #2 has one foot of cracking. Cs3

Bent #5 cap back face risers under girders #1 and 2 have cracking. Cs2

Bent #6 cap bottom face has small spall with exposed rebar.

Bent #6 cap back face riser under girder #2 has cracking at top. Cs3

Remarks



Bent #3 cap back face riser under girder #5 spalled at t



Bent #3 riser under girder #3 cracked and spalled with exposed rebar



Bent #2 riser under girder #2 cracked and delaminated



Bent #2 riser under girder #3 cracked and delaminated



Bent #2 riser under girder #4 cracked and delaminated



Bent #2 riser under girder #5 cracked and delaminated



Bent #2 under girder #3 right side has one foot spall exposed rebar.



Bent #3 back face



Typical cracked riser under bearing



Typical vertical crack in cap under bearing riser.

Maintenance Needs

Date Reported: 04/17/2020

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Abutment caps have vertical cracks under bearings.
Top of abutment caps are spalled under bearings.
Abutment #1 left wing spalled at top with exposed rebar

Remarks



Typical vertical crack and spall under abutment bearing.



Abutment #1 left wing spalled at top with exposed rebar



Typical delaminated area, crack, spalled area under bearings abutment #1.



Abutment #2 typical spall and vertical crack under bearing

Maintenance Needs

Date Reported: 02/28/2024

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

Bent 5, Column 2, Right: Graffiti

Remarks



Bent 5, Column 2, Right: Graffiti

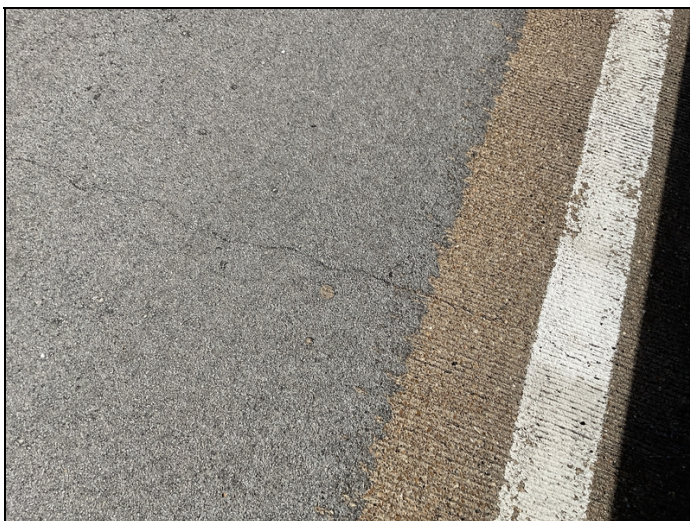
Routine Maintenance

Check Box Maintenance Items

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

A-54 - Sealable Deck Cracks (Yes)

Deck surface, All Spans: CS2 transverse cracks are reflecting through overlay and are in gutters various spacing. 3338SF CS2



Typical deck crack

A-55 - Deck Washing Needed (No)

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

A-57 - Girder End and Bearing Painting Needed (Yes)

All Movable Bearings, Paint has limited to no effectiveness. 30SF CS3, 30SF CS4
50% of paint missing on fixed bearings.

Abutment bearings are corroded with laminations section loss up to 5%.



Typical bearings

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

A-59 - Joint Repair Needed (Yes)

Bent 2, Compression Joint Seal: 7' of lost adhesion seal is sagging. 7LF CS3

Bent 3, Compression Joint Seal: 14' of lost adhesion seal is sagging. 14LF CS3

Bent 4, Compression Joint Seal: 18' of lost adhesion seal is sagging. 18LF CS3

Bent 6, Compression Joint Seal: 10' of lost adhesion seal is sagging. 10LF CS3



Bent 2, Compression Joint Seal: 7' of lost adhesion seal is sagging. 7LF CS3



Bent 3, Compression Joint Seal: 14' of lost adhesion seal is sagging. 14LF CS3



Bent 4, Compression Joint Seal: 18' of lost adhesion seal is sagging. 18LF CS3



Bent 6, Compression Joint Seal: 10' of lost adhesion seal is sagging. 10LF CS3

A-60 - Full Girder Painting Needed (Yes)

All Spans, All Girders, Full Length: Paint is discolored and oxidized with minor areas of bare steel full length. 6,445SF CS2, 6,446SF CS3, 678SF CS4



All Spans, All Girders, Full Length: Paint is discolored and oxidized with minor areas of bare steel full length.
6,445SF CS2, 6,446SF CS3, 678SF CS4

A-61 - Polymer Overlay Advised (Yes)

Deck surface, All Spans: CS2 transverse cracks are reflecting through overlay and are in gutters various spacing. 3338SF CS2



Typical deck crack

A-62 - Hydro and LMC Advised (No)

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

Log mile signs are incorrect should read Sh-50, Section-4, Log Mile-9.20.



Abutment 1 log mile sign right side

A-64 - Vegetation Removal Requested (No)

A-65 - Clogged deck drains?

A-66 - Approach minor pothole/leveling needed



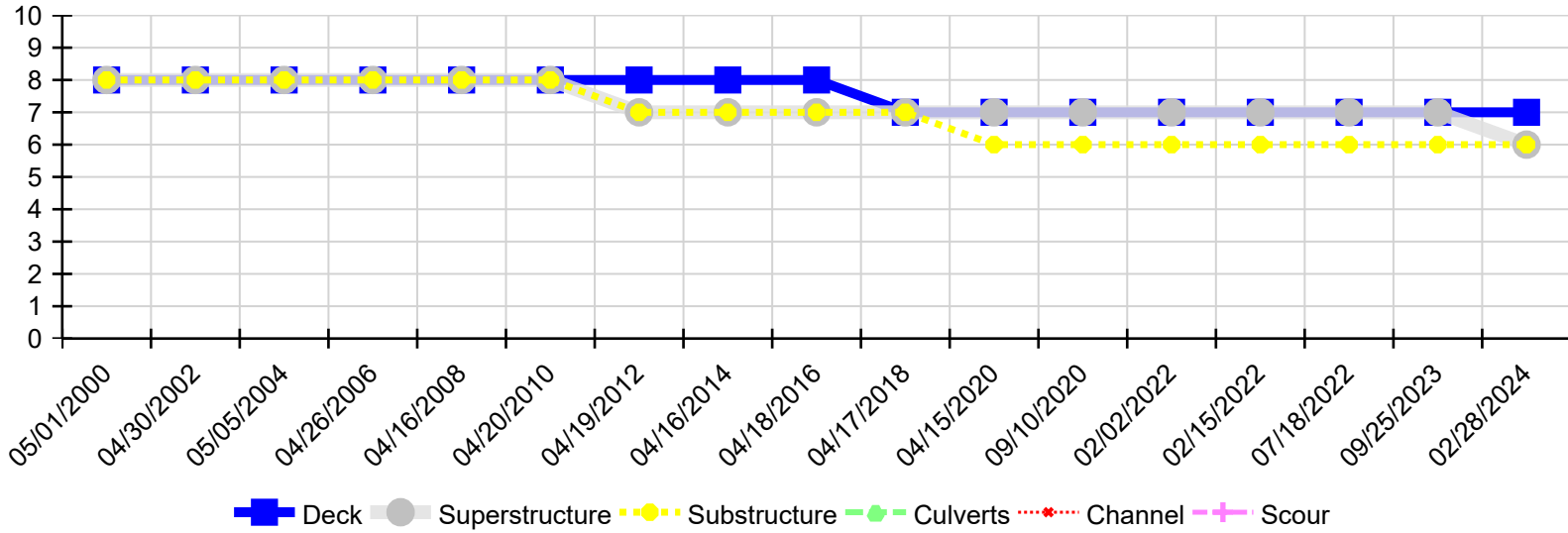
Asset #03137(Routine)

Sh-50/Sec-4/L-9.20 over I-55/Sec-11/L-17.11

Location: .75 Miles West Jct Sh 77

Team Lead: Drew Melton Inspection Date: 02/28/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/28/2024	7	6	6	N	N	N
09/25/2023	7	7	6	N	N	N
07/18/2022	7	7	6	N	N	N
02/15/2022	7	7	6	N	N	N
02/02/2022	7	7	6	N	N	N
09/10/2020	7	7	6	N	N	N
04/15/2020	7	7	6	N	N	N
04/17/2018	7	7	7	N	N	N
04/18/2016	8	7	7	N	N	N
04/16/2014	8	7	7	N	N	N
04/19/2012	8	7	7	N	N	N
04/20/2010	8	8	8	N	N	N
04/16/2008	8	8	8	N	N	N
04/26/2006	8	8	8	N	N	N
05/05/2004	8	8	8	N	N	N
04/30/2002	8	8	8	N	N	N
05/01/2000	8	8	8	N	N	N