



Latitude:34.28257, Longitude:-92.72409

Route:60 Section:00 Log:10.858

Arnold Road ID:30xCOUNTRYCLUBRDx1xA, Arnold Log mile:2.555

District 06, 59 - Hot Spring County

Owner: 2 - County Highway Agency

Inspection Direction: 3 - E to W

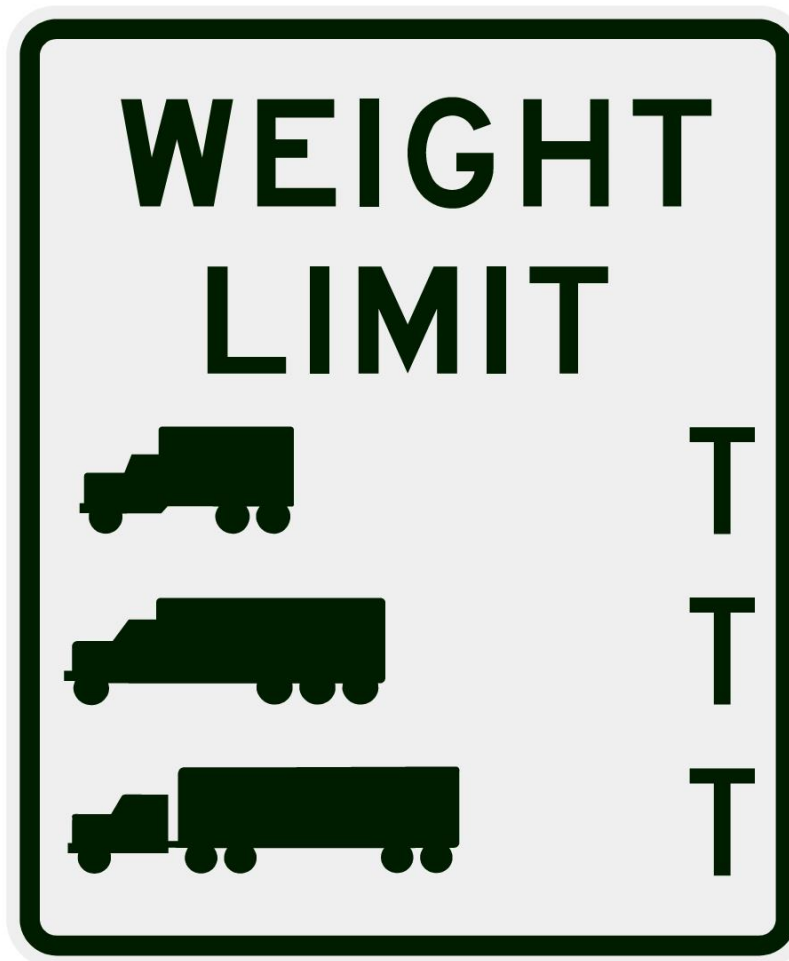
Bridge Posting Information

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

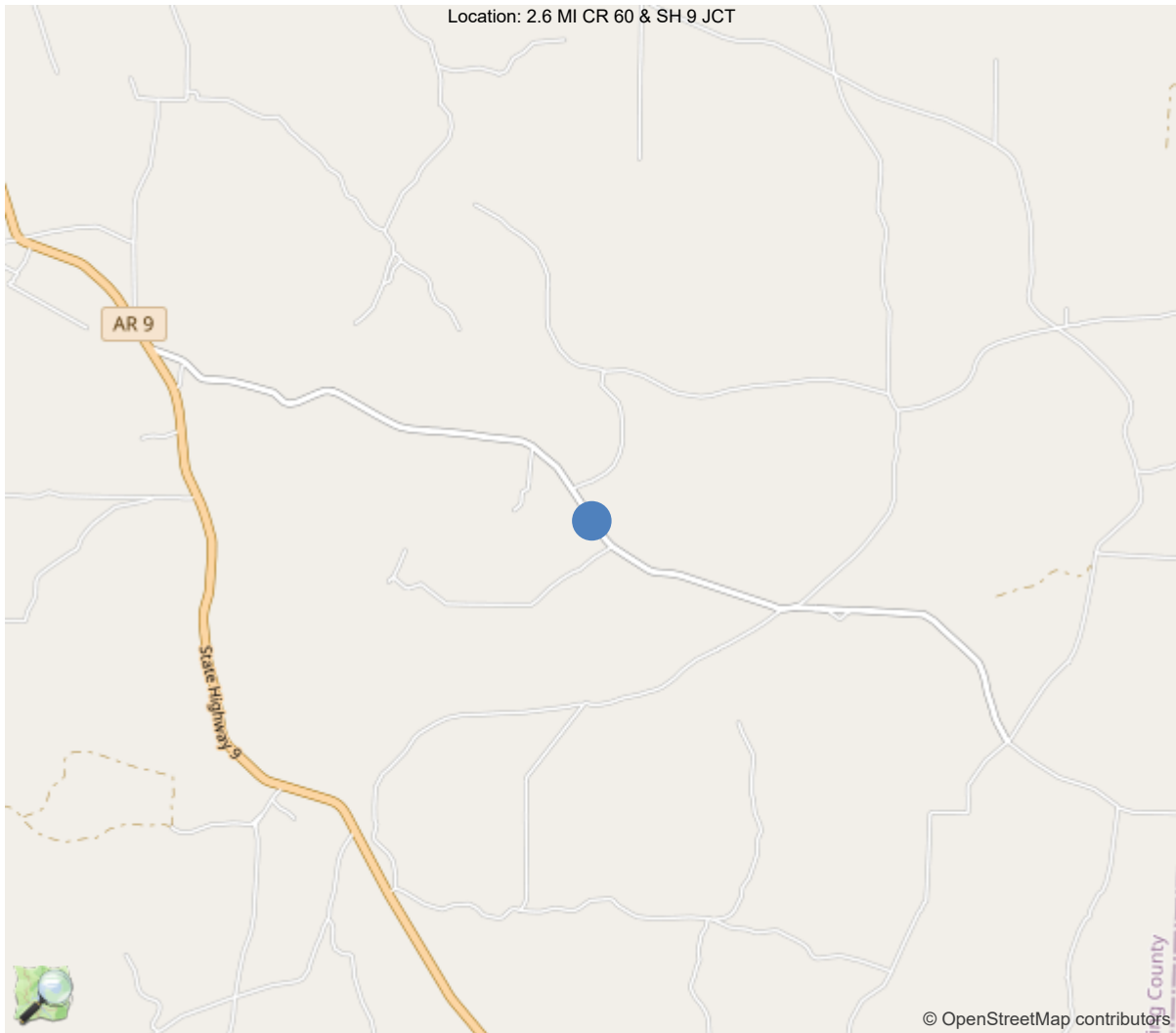
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	50		
Code 5 (40 Tons)	60		

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



34.28257, -92.72409



Asset #20790(Routine, NSTM)
CR 60-B/COUNTRY CL over THOMAS CREEK

Location: 2.6 MI CR 60 & SH 9 JCT

Team Lead: Chris Doggett Inspection Date: 11/16/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	20790
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	59 - Hot Spring County
(4) Place Code	0
(6) Features Intersected	THOMAS CREEK
(7) Facility Carried	CR 60-B/COUNTRY CL
(9) Location	2.6 MI CR 60 & SH 9 JCT
(11) Mile Point	10.858 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.28257
(17) Longitude	-92.72409
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	40
Material	4 - Steel continuous
Type	0 - Other
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	5
(46) No. of Approach Spans	0
(107) Deck Structure Type	5 - Steel plate (includes orth
(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	1989
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	1
Under	0
(29) Average Daily Traffic	420
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	15 ft
(49) Structure Length	85 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	17.1 ft
(52) Deck Width Out to Out	17.1 ft
(32) Approach Roadway Width (W/Shoulders)	18 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	16.1 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	8 - Rural Minor Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	3 - One lane bridge for 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 structu
(21) Maintain	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	4 - Historical significance is
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	5
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	6
(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 t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	111 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 293
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	299
(115) Year of Future ADT	2006

INSPECTIONS *			
(90) Inspection Date	11/16/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	Yes	12	11/16/2023
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: Chris Doggett, Inspection Date: 11/16/2023

IDENTIFICATION	
B.ID.01 Bridge Number	20790
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	59 - Hot Spring County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	06 - District 06
B.L.05 Latitude	34.28257
B.L.06 Longitude	-92.72409
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	
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	
B.CL.02 Maint. Responsibility	
B.CL.03 Federal or Tribal Land Access	
B.CL.04 Historic Significance	
B.CL.05 Toll	
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	
B.G.02 Total Bridge Length	
B.G.03 Max Span Length	
B.G.04 Min Span Length	13.5
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	
B.G.07 Left Curb or Sidewalk Width	
B.G.08 Right Curb or Sidewalk Width	
B.G.09 Approach Roadway Width	

B.G.10 Bridge Median	
B.G.11 Skew	
B.G.12 Curved Bridge	
B.G.13 Max Bridge Height	9
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	
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	
B.LR.05 Inventory Load Rating Factor	
B.LR.06 Operating Load Rating Factor	
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	
B.IR.02 Fatigue Details	Y - E/E' details are present
B.IR.03 UW Inspection Required	
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	
B.C.02 Superstructure Condition	
B.C.03 Substructure Condition	
B.C.04 Culvert Condition	
B.C.05 Bridge Railing Condition	5 - FAIR - Some moderate defec
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	
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	
B.C.12 Bridge Condition Classification	
B.C.13 Lowest Condition Rating	
B.C.14 NSTM Insp. Condition	6 - SATISFACTORY - Widespread
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	

Team Lead: Chris Doggett, Inspection Date: 11/16/2023

SPAN SETS			
M1			
B.SP.02 # of Spans	5	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	2	B.SP.09 Deck Material and Type	S03 - Steel - plate
B.SP.04 Span Material	S02 - Steel - welded	B.SP.10 Wearing Surface	B01 - Bituminous (asphalt)
B.SP.05 Span Continuity	2 - Continuous	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	B03 - Box girder/beam - multip	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	1	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	5	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	P03 - Pier - multiple column	B.SB.07 Foundation Protective System	0 - None

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

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	THOMAS 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

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



General Observation

Logged westbound

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

Pot holes in the asphalt wearing surface on the east side

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

Bent 4: left car point loaded. Bent 6, left car is floating. All elements have minor corrosion with minor pitting.

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

Timber cap at bent 1 is rotting on the north side, bent 6 concrete abutment has two spalls. Channel profile and sounding sheet attached to Sketch tab.

61 - Channel/Channel Protection (5 - Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and brush restrict the channel.)

Bank protection is being eroded.

B.C.14 - NSTM Inspection Condition (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

All elements have minor corrosion with minor pitting.



Elevation



Inventory looking west



Bent 6: spall in cap under the left car. 2023



Channel looking upstream



Channel looking down stream



NSTM



Soffit view



Pot holes in the asphalt wearing surface on the east side



Deck view



Bent 6: Spall to face of cap between columns 1&2.



Bent 1: Timber cribbing beginning to have some rot on the end



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	Yes
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-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

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



Asset #20790(Routine, NSTM)
CR 60-B/COUNTRY CL over THOMAS CREEK

Location: 2.6 MI CR 60 & SH 9 JCT

Team Lead: Chris Doggett Inspection Date: 11/16/2023

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 (Yes)

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)

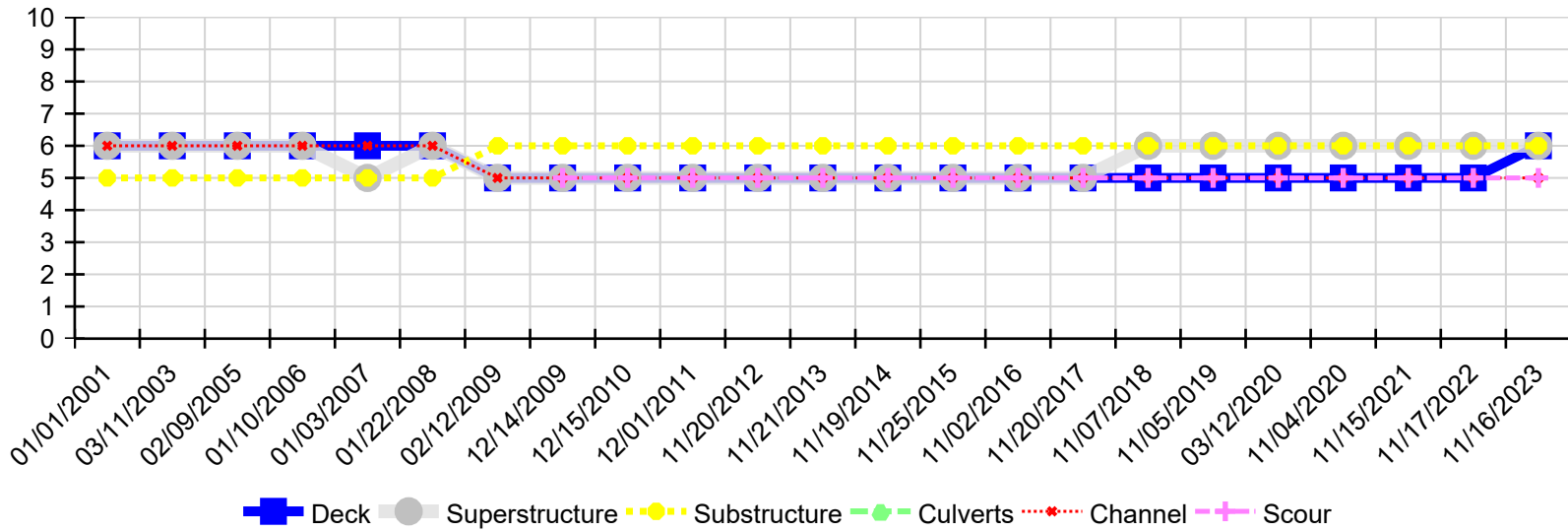


Asset #20790(Routine, NSTM)
CR 60-B/COUNTRY CL over THOMAS CREEK

Location: 2.6 MI CR 60 & SH 9 JCT

Team Lead: Chris Doggett Inspection Date: 11/16/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/16/2023	6	6	6	N	5	5
11/17/2022	5	6	6	N	5	5
11/15/2021	5	6	6	N	5	5
11/04/2020	5	6	6	N	5	5
03/12/2020	5	6	6	N	5	5
11/05/2019	5	6	6	N	5	5
11/07/2018	5	6	6	N	5	5
11/20/2017	5	5	6	N	5	5
11/02/2016	5	5	6	N	5	5
11/25/2015	5	5	6	N	5	5
11/19/2014	5	5	6	N	5	5
11/21/2013	5	5	6	N	5	5
11/20/2012	5	5	6	N	5	5
12/01/2011	5	5	6	N	5	5
12/15/2010	5	5	6	N	5	5
12/14/2009	5	5	6	N	5	5
02/12/2009	5	5	6	N	5	N
01/22/2008	6	6	5	N	6	N
01/03/2007	6	5	5	N	6	N
01/10/2006	6	6	5	N	6	N
02/09/2005	6	6	5	N	6	N
03/11/2003	6	6	5	N	6	N
01/01/2001	6	6	5	N	6	N



NSTM Inspection Report and Procedure
Bridge No. 20790 2.6 MI CR 60 & SH 9 JCT

A-128 - Description of Structure

Bridge # 20790

This bridge was constructed in 1990 with two used railroad cars placed side by side and has five spans.

The NSTM's are the bottom flanges and webs of the center sills on both cars. These members can be accessed from the streambed below the cars.

The tension members are inspected "hands on and visually" using a wire brush and flashlight as needed for defects and cracks. Rail car bridges are many times made with the use of salvaged and repurposed rail cars. These railcars may have been damaged prior or during installation. Welded connection and any damaged area will be examined closely for any potential cracks.

A-129 - Range Of Dates, Personnel and Responsibilities

11/15/2023 - 11/21/2023

Chris Doggett - Team Leader

Joseph Rapier - Assistant

All members were inspected hands on by both the team lead and the assistant inspector

A-130 - Access Equipment

No equipment was needed to inspect this bridge. It was accessible to inspect from the creek.

B.IR.02 - Fatigue Prone Details

Y - E/E' details are present

B.C.14 - NSTM Inspection Condition

6 - SATISFACTORY - Widespread minor or isolated moderate defects.

All elements have minor corrosion with minor pitting.

B.IR.04 - Complex Feature

N - Bridge does not have complex feature

Reference Photos:



NSTM



Asset #20790(Routine, NSTM)
CR 60-B/COUNTRY CL over THOMAS CREEK
Location: 2.6 MI CR 60 & SH 9 JCT
Team Lead: Chris Doggett Inspection Date: 11/16/2023

Bridge #20790 NSTM Member Inspection Log			
Member or Element (NSTM)	Access Equipment	Condition Rating	General Condition Notes
Center sills	N/A	6	All elements have minor corrosion with minor pitting.

NSTM specific defect notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4



Asset #20790(Routine, NSTM)
CR 60-B/COUNTRY CL over THOMAS CREEK
Location: 2.6 MI CR 60 & SH 9 JCT
Team Lead: Chris Doggett **Inspection Date:** 11/16/2023

Signatures

Signature

Printed Name

Date

Chris Doggett

(Team Lead) Chris Doggett

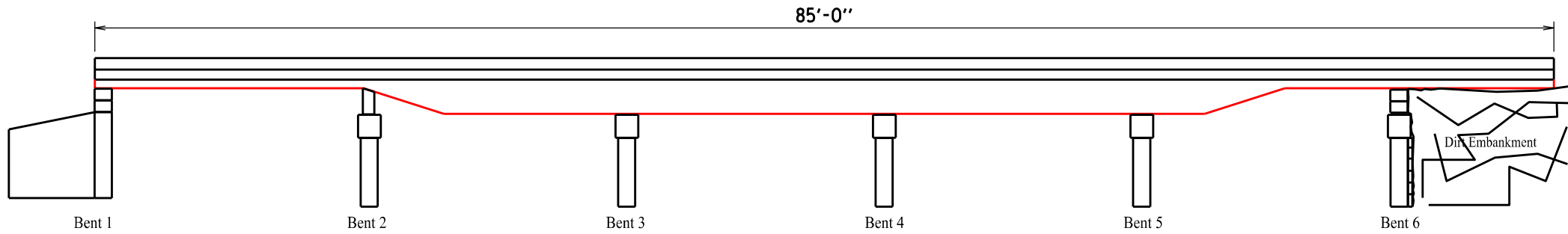
11/29/2023

Joseph Rapier

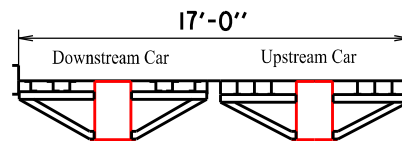
Joseph Rapier

11/29/2023

All NSTM's are shown in red.



Elevation View



Cross Section View