

## Bridge 02860 Inspection Report



Latitude:36.43450, Longitude:-90.37511

Route:62 Section:20 Log:13.47

Arnold Road ID:11x62x20xA, Arnold Log mile:13.483

District 10, 21 - Clay County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

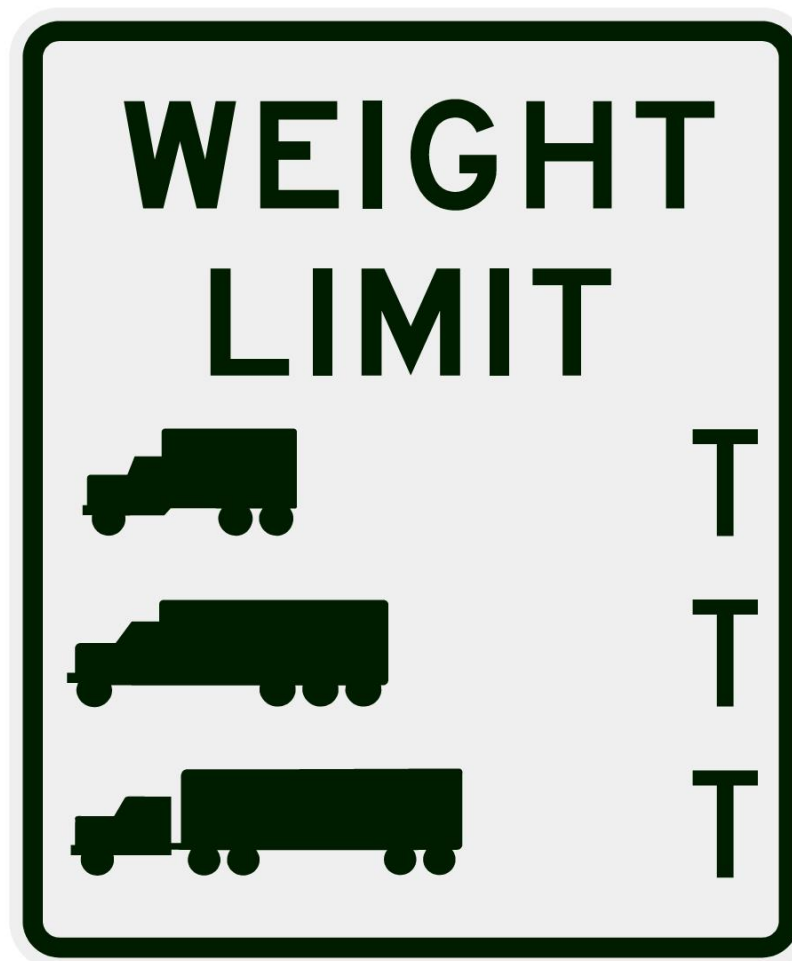
### Bridge Posting Information

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

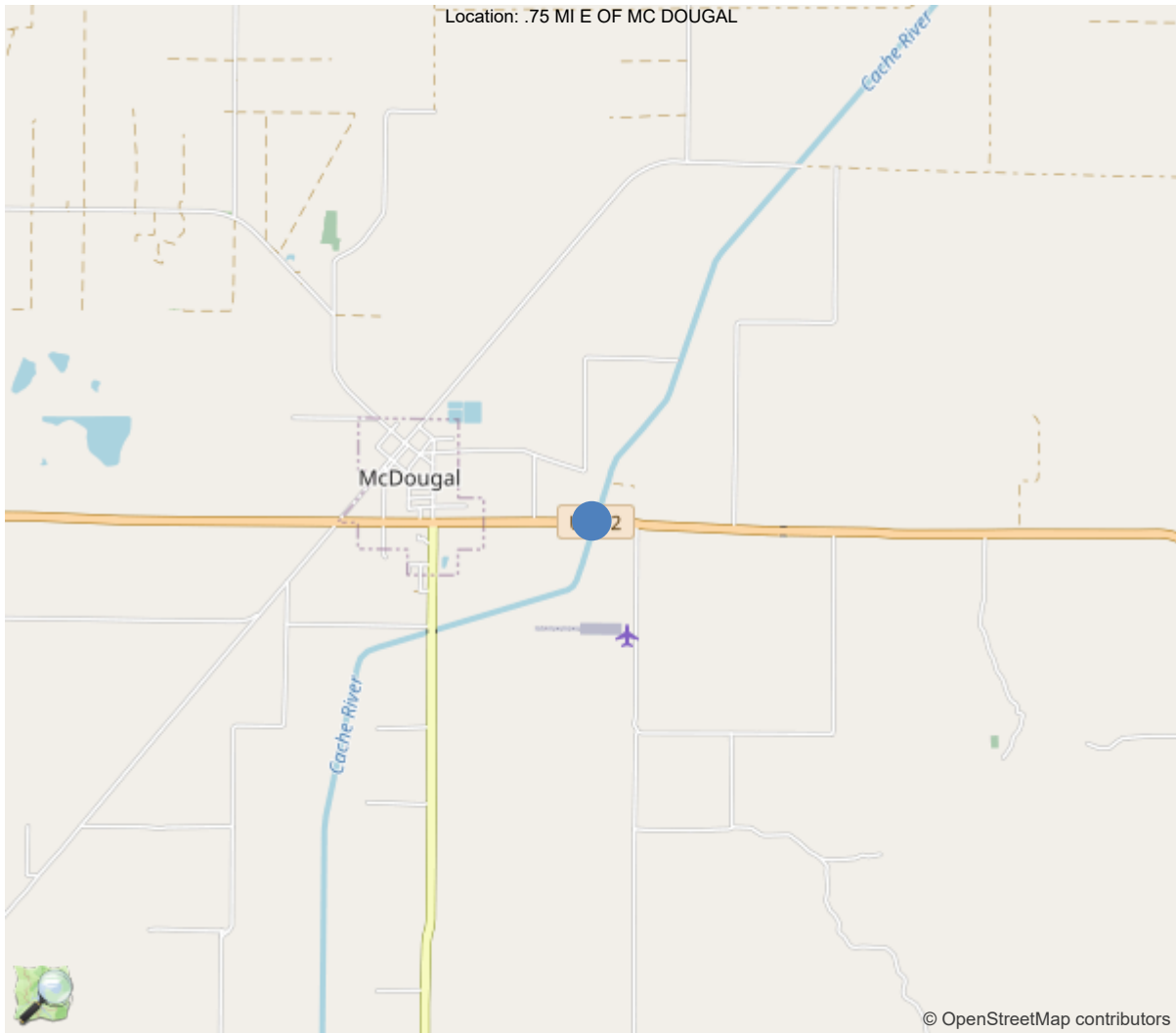
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	36		
Code 9 (31 Tons)	39		
Code 5 (40 Tons)	47		

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



36.43450, -90.37511

## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02860
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	21 - Clay County
(4) Place Code	0
(6) Features Intersected	CACHE RIVER DITCH
(7) Facility Carried	US 62-20- LM 13.47
(9) Location	.75 MI E OF MC DOUGAL
(11) Mile Point	13.47 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000062200
(16) Latitude	36.434503351562
(17) Longitude	-90.3751099611442
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	21
Material	2 - Concrete continuous
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	4
(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	1953
(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	1200
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	27.5 ft
(49) Structure Length	110 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	29.5 ft
(32) Approach Roadway Width (W/Shoulders)	33.1 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	26 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	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	0
(26) Functional Class	6 - Rural Minor 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	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	7
(59) Superstructure	7
(60) Substructure	5
(61) Channel & Channel Protection	5
(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	45
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	27
(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	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	5 - 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	1327
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/25/2024
(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: James Adams, Inspection Date: 11/25/2024

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	02860
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1953

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	21 - Clay County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	10 - District 10
B.L.05 Latitude	36.434503351562
B.L.06 Longitude	-90.3751099611442
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 MI E OF MC DOUGAL
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	110
B.G.02 Total Bridge Length	109.9
B.G.03 Max Span Length	27.6
B.G.04 Min Span Length	27.5
B.G.05 Bridge Width Out-to-Out	29.5
B.G.06 Bridge Width Curb-to-Curb	25.9
B.G.07 Left Curb or Sidewalk Width	1.6
B.G.08 Right Curb or Sidewalk Width	1.6
B.G.09 Approach Roadway Width	33.1

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	18
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	3245.3

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	0.75
B.LR.06 Operating Load Rating Factor	1.25
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	7 - GOOD - Some minor defects.
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	5 - FAIR - Some moderate defec
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	6 - SATISFACTORY - Widespread
B.C.07 Bridge Bearings Cond.	6 - SATISFACTORY - Widespread
B.C.08 Bridge Joints Condition	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	5 - FAIR - Moderate defects; b
B.C.10 Channel Protection Condition	5 - FAIR - Some moderate defec
B.C.11 Scour Condition Rating	6 - Widespread minor or isolat
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	5 - FAIR - Some moderate defec
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: James Adams, Inspection Date: 11/25/2024

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	4	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	C01 - Reinforced concrete - ca	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	S01 - Slab - solid	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			
<b>A1</b>			
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
<b>P1</b>			
B.SB.02 No. of Substructure Units	3	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	B03 - Bent - pile	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
<b>H1</b>			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	1200
B.F.03 Feature Name	US 62-20- LM 13.47	B.H.10 Annual ADTT	12
B.H.01 Functional Classification	4 - Minor Arterial	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	1-T - TEMP - NHFN - 1 or 2 or	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	62200	B.H.16 Highway Max Usable Surface Width	25.9
B.H.07 LRS Mile Point	13.47	B.H.17 Bypass Detour Length	2
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	1	62	2-T - TEMP - Two-way traffic - NS or EW	2 - U.S. route	1 - Mainline



Team Lead: James Adams, Inspection Date: 11/25/2024

## 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	CACHE RIVER 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 and 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 #02860(Routine)

US 62-20- LM 13.47 over CACHE RIVER DITCH

Location: .75 MI E OF MC DOUGAL

Team Lead: James Adams Inspection Date: 11/25/2024

## Inspection Notes

### General Observation

Equipment: Waders.

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

See elements

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**59 - Superstructure** (7 - GOOD CONDITION - some minor problems.)

See elements

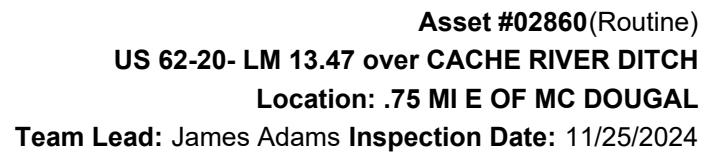
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**60 - Substructure** (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

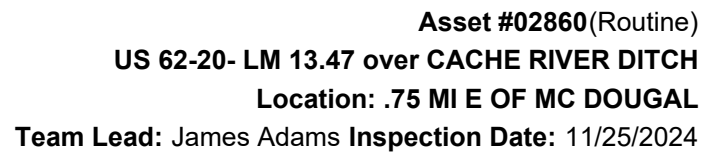
See elements

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ELEMENTS		DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab		SF	3245	3005	0	240	0
1080	Delamination/Spall/Patched Area		SF	42	0	0	42	0
1090	Exposed Rebar		SF	48	0	0	48	0
1120	Efflorescence/Rust Staining		SF	30	0	0	30	0
1130	Cracking (RC and Other)		SF	120	0	0	120	0
510	Wearing Surfaces		SF	2860	2456	0	404	0
3210	Delam/Spall/Patched Area/Pothole		SF	90	0	0	90	0
3220	Crack (Wearing Surface)		SF	314	0	0	314	0
(38) Undersurface has a few longitudinal cracks. 120SF CS3 Undersurface has transverse & diagonal cracks with some efflorescence along construction joints. 30SF CS3 Undersurface has delaminated areas or spalls 42SF CS3 Undersurface has exposed rebar near drains and edges of slabs.48SF CS3 (510-38) Asphalt wearing surface has several cracks. Asphalt has a few small spalls or delaminated areas along center line and along gutters.								
215	Reinforced Concrete Abutment		LF	77	34	6	37	0
1080	Delamination/Spall/Patched Area		LF	3	0	0	3	0
6000	Scour		LF	40	0	6	34	0
(215) Bent 1 is undermined on right end up to 2.5ft. below and 2ft. back under. Approach roadway embankment has some erosion behind wing wall. Repaired with riprap and expandable foam. Observed 11-26-2024. 34LF CS3  Bent 1 abutment 1LF spall CS3  Bent 5 abutment is undermined on left end up to 1ft. below and 1ft. back under. 6LF CS2  Stone riprap slope protection under span 1 & at bent 1.  Bent 5 abutment 2LF spall CS3								
227	Reinforced Concrete Pile		EA	19	0	19	0	0
1190	Abrasion/Wear (PSC/RC)		EA	15	0	15	0	0
6000	Scour		EA	4	0	4	0	0
(227) Piles have minor abrasion. 15 EA abrasion CS2 4 are exposed at end bents. (Scour) CS2								
234	Reinforced Concrete Pier Cap		LF	92	86	0	6	0
1080	Delamination/Spall/Patched Area		LF	1	0	0	1	0
1090	Exposed Rebar		LF	3	0	0	3	0
1130	Cracking (RC and Other)		LF	2	0	0	2	0
(234) Bent 3 cap has concrete disintegration with some rebar exposed on left and right ends. 3LF rebar CS3								



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 3 cap has 1LF of delamination CS3							
Bent 3 cap has 2 LF of cracking CS3							
330	Metal Bridge Railing	LF	220	18	202	0	0
1000	Corrosion	LF	202	0	202	0	0
515	Steel Protective Coating	SF	704	58	0	0	646
3440	Effectiveness (Steel Protective Coatings)	SF	646	0	0	0	646
(330) Metal rails have surface rust. 202LF CS2							
1 section was replaced sometime in the past.18LF CS1							
(515-330) Metal rails have surface rust. 646SF CS4							
1 section was replaced sometime in the past.58SF CS1							

## Inspection Photos and Notes



Span 2 undersurface



Deck



Roadway



Elevation



**Asset #02860**(Routine)

**US 62-20- LM 13.47 over CACHE RIVER DITCH**

**Location: .75 MI E OF MC DOUGAL**

**Team Lead: James Adams Inspection Date: 11/25/2024**

### **Maintenance Needs**

**Date Reported:** 12/11/2012

**Priority:** C - Important

**Type of Work:** Superstructure Repair

**Status:** Monitor

**Component:** Deck

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### **Deficiency Description**

Slab undersurface has delaminated areas or spalls with rebar exposed near drains.  
Undersurface has some efflorescence or spalls with rebar exposed near edges.

### **Remarks**

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### Maintenance Needs

**Date Reported:** 12/11/2012

**Priority:** C - Important

**Type of Work:** Channel Work/Drift Removal

**Status:** Monitor

**Component:** Channel

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### Deficiency Description

Drift and sediment are built up at bent 3.

### Remarks

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11/26/2024

Span 2&3 drift



11/29/2022

Bent 3 drift



### Maintenance Needs

**Date Reported:** 11/08/2016

**Priority:** D- Routine

**Type of Work:** Substructure Repair

**Status:** Monitor

**Component:** Substructure

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### Deficiency Description

Bent 3 cap has concrete disintegration with some rebar exposed on Lt and Rt ends.

### Remarks

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Bent 3 right



Bent 3 Rt



### Maintenance Needs

Date Reported: 11/29/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Channel

### Deficiency Description

Bent 5 abutment is undermined on Lt end up to 1' below and 1' back under.

### Remarks

Slope under span 1 was covered with rip rap in 2021.

\*\*Bent 1 is undermined on Rt end up to 2.5' below and 2' back under. Approach roadway embankment has some erosion behind wing wall. Repaired with riprap and expandable foam. Observed 11-26-2024.



Bent 5 left 11-26-2024



Bent 1 slope protection and expandable foam repair  
observed 11-26-2024



Bent 1 right approach roadway embankment repair  
observed 11-26-2024



Bent 1 Right





Bent 5 Left



Bent 1 Right Approach roadway embankment



## 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 #02860**(Routine)

**US 62-20- LM 13.47 over CACHE RIVER DITCH**

**Location: .75 MI E OF MC DOUGAL**

**Team Lead: James Adams Inspection Date: 11/25/2024**

**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 #02860**(Routine)

**US 62-20- LM 13.47 over CACHE RIVER DITCH**

**Location: .75 MI E OF MC DOUGAL**

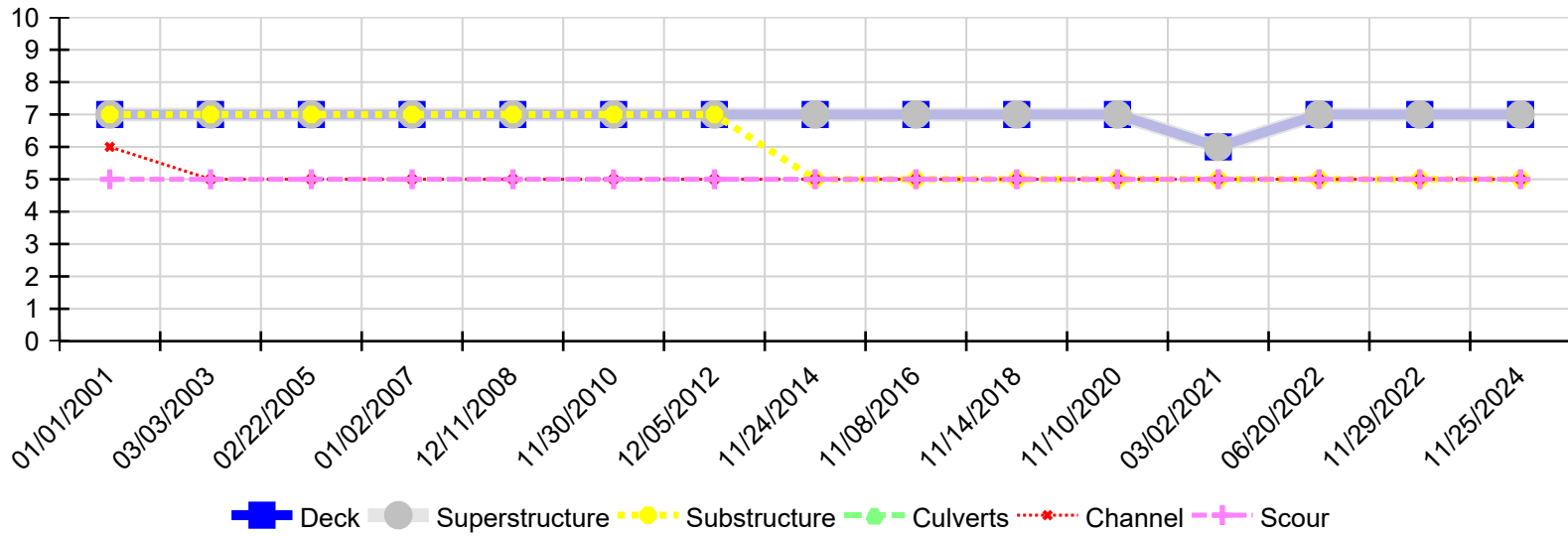
**Team Lead: James Adams Inspection Date: 11/25/2024**

**A-66 - Approach minor pothole/leveling needed**



Asset #02860(Routine)  
US 62-20- LM 13.47 over CACHE RIVER DITCH  
Location: .75 MI E OF MC DOUGAL  
Team Lead: James Adams Inspection Date: 11/25/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/25/2024	7	7	5	N	5	5
11/29/2022	7	7	5	N	5	5
06/20/2022	7	7	5	N	5	5
03/02/2021	6	6	5	N	5	5
11/10/2020	7	7	5	N	5	5
11/14/2018	7	7	5	N	5	5
11/08/2016	7	7	5	N	5	5
11/24/2014	7	7	5	N	5	5
12/05/2012	7	7	7	N	5	5
11/30/2010	7	7	7	N	5	5
12/11/2008	7	7	7	N	5	5
01/02/2007	7	7	7	N	5	5
02/22/2005	7	7	7	N	5	5
03/03/2003	7	7	7	N	5	5
01/01/2001	7	7	7	N	6	5