

## Bridge 02857 Inspection Report



Latitude:36.41601, Longitude:-90.47596

Route:62 Section:20 Log:6.85

Arnold Road ID:11x62x20xA, Arnold Log mile:6.858

District 10, 21 - Clay County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

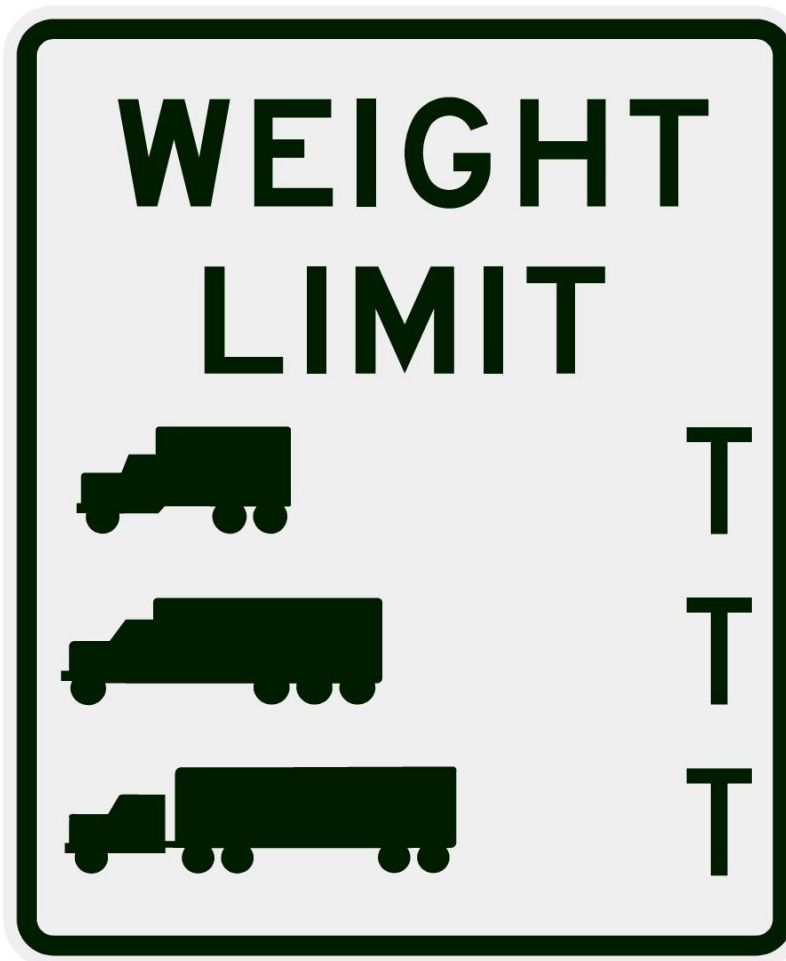
### Bridge Posting Information

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

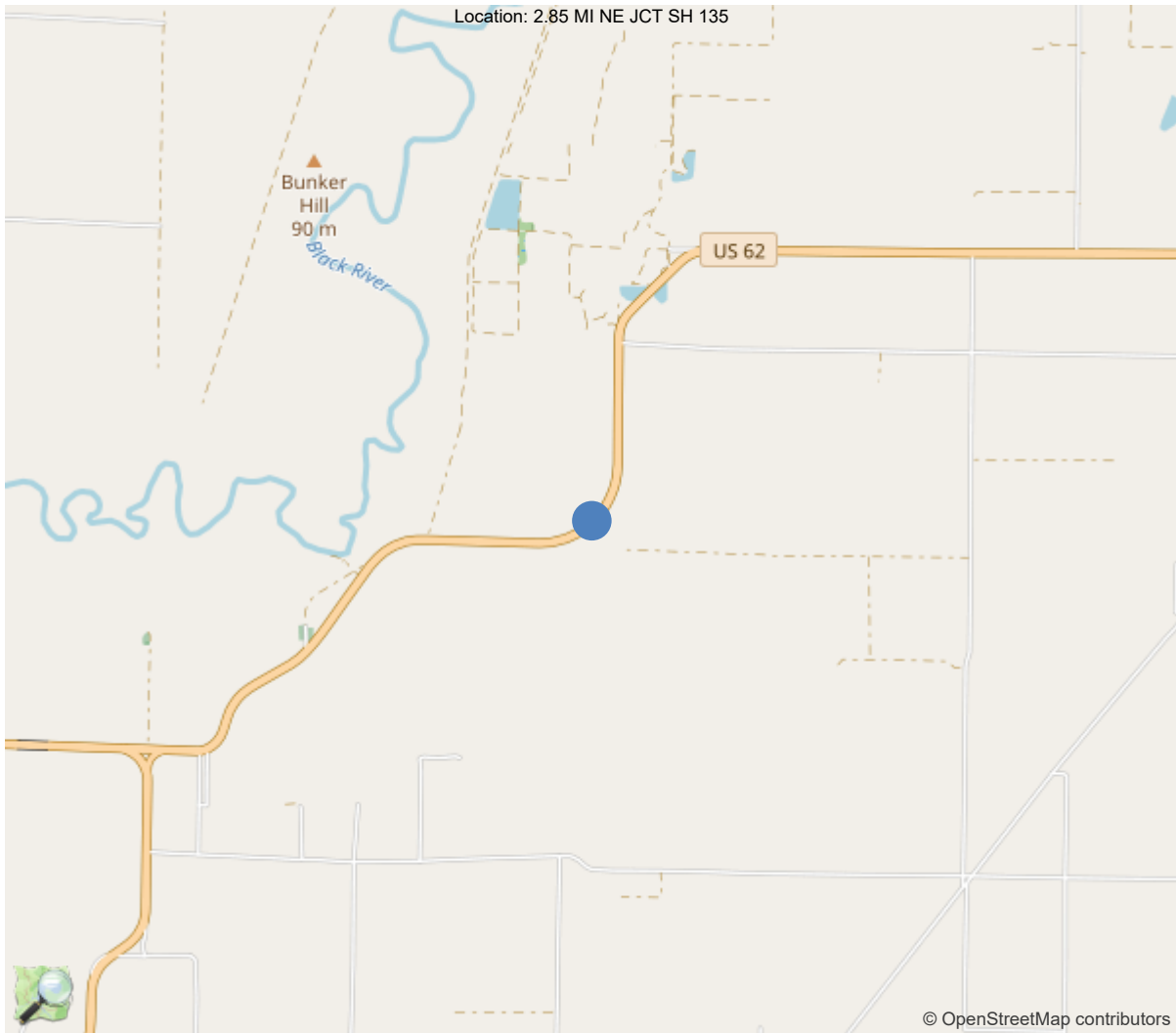
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	46		
Code 5 (40 Tons)	56		

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



36.41601, -90.47596



Asset #02857(Routine)

US 62-20- LM 6.85 over DITCH NO. 18

Location: 2.85 MI NE JCT SH 135

Team Lead: Cory Shaw Inspection Date: 11/15/2024

## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02857
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	21 - Clay County
(4) Place Code	0
(6) Features Intersected	DITCH NO. 18
(7) Facility Carried	US 62-20- LM 6.85
(9) Location	2.85 MI NE JCT SH 135
(11) Mile Point	6.85 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000062200
(16) Latitude	36.4160113931691
(17) Longitude	-90.4759555586974
(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	2
(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	1952
(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	1300
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	27.5 ft
(49) Structure Length	55 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	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 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	7
(61) Channel & Channel Protection	6
(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	53
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	32
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	1447
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/15/2024
(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: Cory Shaw, Inspection Date: 11/15/2024

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	02857
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1952

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	36.4160113931691
B.L.06 Longitude	-90.4759555586974
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	2.85 MI NE JCT SH 135
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	55
B.G.02 Total Bridge Length	55.1
B.G.03 Max Span Length	27.6
B.G.04 Min Span Length	
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	32.2

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	8
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	1627.5

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	0.89
B.LR.06 Operating Load Rating Factor	1.47
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	7 - GOOD - Some minor defects.
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	7 - GOOD - Some minor defects.
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	6 - SATISFACTORY - Widespread
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	7 - Some minor scour.
B.C.12 Bridge Condition Classification	G - Good
B.C.13 Lowest Condition Rating	7 - GOOD - Some minor defects.
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: Cory Shaw, Inspection Date: 11/15/2024

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	2	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	B03 - Bent - pile	B.SB.07 Foundation Protective System	0 - None
<b>P1</b>			
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	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	1300
B.F.03 Feature Name	US 62-20- LM 6.85	B.H.10 Annual ADTT	13
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	6.85	B.H.17 Bypass Detour Length	9
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: Cory Shaw, Inspection Date: 11/15/2024

## 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	DITCH NO. 18	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
----------------------------------	----------------------------------	----------------------	-----------------------



Asset #02857 (Routine)

US 62-20- LM 6.85 over DITCH NO. 18

Location: 2.85 MI NE JCT SH 135

Team Lead: Cory Shaw Inspection Date: 11/15/2024

## Inspection Notes

### General Observation

Equipment: Waders.

---

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

See elements.

---

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

See elements.

---

**60 - Substructure** (7 - GOOD CONDITION - some minor problems.)

See elements.

---

**61 - Channel/Channel Protection** (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)  
Minor drift lodged against Bent 2.

---



Asset #02857(Routine)

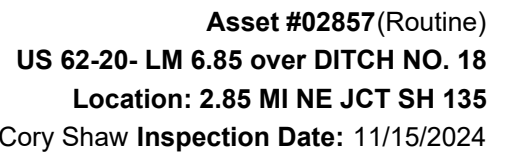
US 62-20- LM 6.85 over DITCH NO. 18

Location: 2.85 MI NE JCT SH 135

Team Lead: Cory Shaw Inspection Date: 11/15/2024

### National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1623	1250	139	234	0
1080	Delamination/Spall/Patched Area	SF	58	0	0	58	0
1090	Exposed Rebar	SF	11	0	0	11	0
1120	Efflorescence/Rust Staining	SF	165	0	0	165	0
1130	Cracking (RC and Other)	SF	139	0	139	0	0
510	Wearing Surfaces	SF	1430	955	0	475	0
3210	Delam/Spall/Patched Area/Pothole	SF	28	0	0	28	0
3220	Crack (Wearing Surface)	SF	447	0	0	447	0
<p>(38) Curbs have areas of concrete disintegration with some rebar exposed.  Undersurface has longitudinal and transverse cracks with some efflorescence along construction joints.  Undersurface has efflorescence cracks under gutters with delaminated areas and spalls with rebar exposed near drains.  Undersurface at Bent 2 cap has small honeycombed areas with some rebar exposed.</p> <p>Rebar 11' CS3, Cracking 139' CS2, Efflorescence 165' CS3, Delam/Spall 58' CS3</p> <p>(510-38) Asphalt wearing surface has several cracks and a few small spalls along the centerline. Delam/Spall 28' CS3, Crack 447' CS3</p>							
215	Reinforced Concrete Abutment	LF	77	61	6	7	3
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	6	0	0	6	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
6000	Scour	LF	4	0	4	0	0
7000	Damage	LF	3	0	0	0	3
<p>(215) Abutments have a few minor cracks or delaminated areas, and a few areas of exposed rebar from lack of coverage. Rebar 6' CS3, Delam 1' CS3, Cracking 2' CS2</p> <p>Bent 1 Right Wing is missing from past collision damage. Damage 3' CS4</p> <p>Bent 1 Abutment is undermined for 4' ft. on the Left end up to 6" inches below and 1' ft. back under cap. Scour 4' CS2</p>							
227	Reinforced Concrete Pile	EA	6	0	6	0	0
1190	Abrasion/Wear (PSC/RC)	EA	5	0	5	0	0
6000	Scour	EA	1	0	1	0	0
<p>(227) Bent 1 has 1 pile exposed. Scour 1 CS2</p> <p>Bent 2 piles have minor abrasion. Abrasion 5 CS2</p>							
234	Reinforced Concrete Pier Cap	LF	31	28	3	0	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(234) Bent 2 cap has a few minor cracks. 3 CS2							
330	Metal Bridge Railing	LF	110	0	110	0	0
1000	Corrosion	LF	110	0	110	0	0
515	Steel Protective Coating	SF	352	167	0	0	185
3440	Effectiveness (Steel Protective Coatings)	SF	185	0	0	0	185
(330) Metal rails have scattered surface rust throughout. 110' CS2							
Bent 3 (East end) on left, approach rail has 3 wood spacer blocks damaged.							
(515-330) Metal rails have scattered surface rust throughout. 185' CS4							

## Inspection Photos and Notes



Span 2 undersurface 11-15-2024



Bent 3 center line rebar 11-15-2024



Drift lodged against bent 2 11-15-2024



Span 1 left cracking with efflorescence 11-15-2024



11/15/2024

Bent 4 (East end) on left approach rail 3 wood spacer blocks damaged. 11-15-2024



11/15/2024

Deck



11/15/2024

Roadway



11/28/2022

Elevation

### Maintenance Needs

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

**Priority:** D- Routine

**Type of Work:** Deck Repair

**Status:** Monitor

**Component:** Deck

---

### Deficiency Description

Asphalt wearing surface has numerous cracks and a few small spalls along center line.

### Remarks

---



Centerline deck 11-15-2024

### Maintenance Needs

Date Reported: 11/24/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Channel

---

### Deficiency Description

Bent 1 abutment is undermined for 4' on Lt end up to 6" below and 1' back under cap.

### Remarks

---



Bent 1 left end erosion 11-15-2024



Bent 1

### Maintenance Needs

Date Reported: 12/01/2014

Priority: D- Routine

Type of Work: Deck Repair

Status: Monitor

Component: Deck

### Deficiency Description

Curbs have areas of concrete disintegration with some rebar exposed.

### Remarks



Bent 3 left curb rebar 11-15-2024



Bent 1 left curb rebar 11-15-2024



Right curb



Left curb



Lt curb

### Maintenance Needs

Date Reported: 12/01/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Substructure

---

### Deficiency Description

Bent 1 Rt wing is missing from past collision damage.

### Remarks

---



Bent 1 right wing is missing from past damage 11-15-2024



Bent 1 right



Asset #02857(Routine)

US 62-20- LM 6.85 over DITCH NO. 18

Location: 2.85 MI NE JCT SH 135

Team Lead: Cory Shaw Inspection Date: 11/15/2024

## 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 #02857**(Routine)

**US 62-20- LM 6.85 over DITCH NO. 18**

**Location: 2.85 MI NE JCT SH 135**

**Team Lead: Cory Shaw Inspection Date: 11/15/2024**

**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 #02857**(Routine)

**US 62-20- LM 6.85 over DITCH NO. 18**

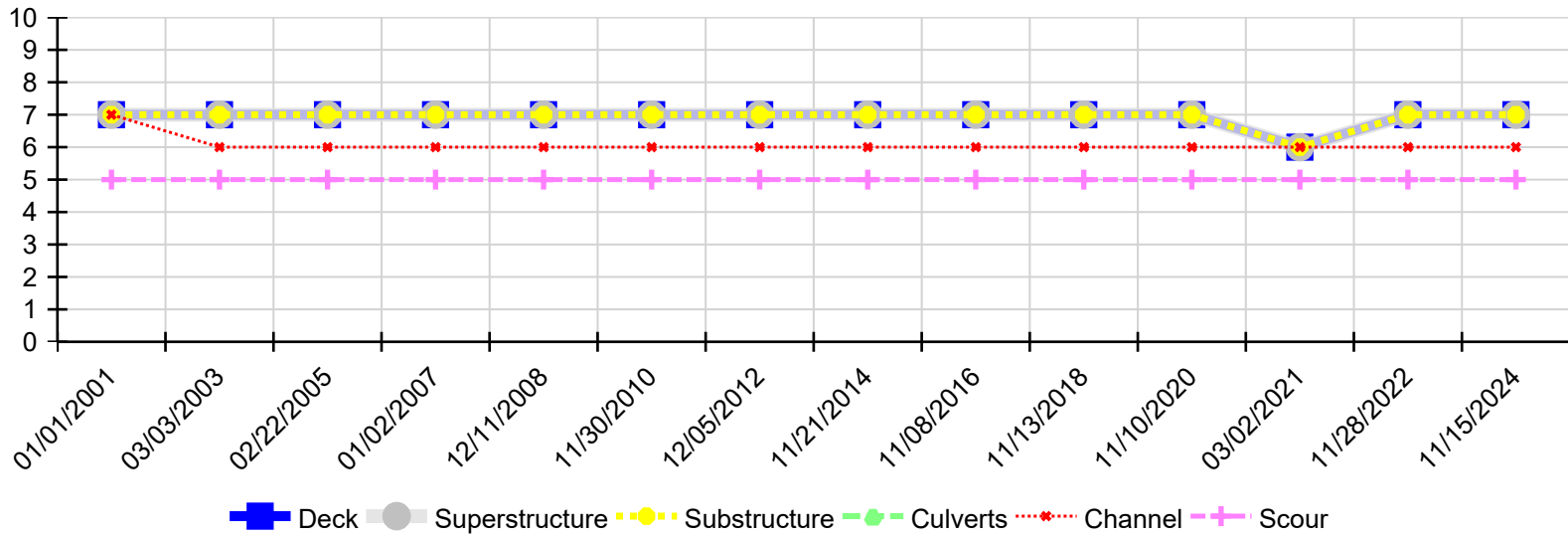
**Location: 2.85 MI NE JCT SH 135**

**Team Lead: Cory Shaw Inspection Date: 11/15/2024**

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



Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/15/2024	7	7	7	N	6	5
11/28/2022	7	7	7	N	6	5
03/02/2021	6	6	6	N	6	5
11/10/2020	7	7	7	N	6	5
11/13/2018	7	7	7	N	6	5
11/08/2016	7	7	7	N	6	5
11/21/2014	7	7	7	N	6	5
12/05/2012	7	7	7	N	6	5
11/30/2010	7	7	7	N	6	5
12/11/2008	7	7	7	N	6	5
01/02/2007	7	7	7	N	6	5
02/22/2005	7	7	7	N	6	5
03/03/2003	7	7	7	N	6	5
01/01/2001	7	7	7	N	7	5