



Latitude:33.88530, Longitude:-93.27915

Route:67 Section:04 Log:1.53

Arnold Road ID:10x67x4xA, Arnold Log mile:1.518

District 07, 19 - Clark 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)	38		
Code 9 (31 Tons)	42		
Code 5 (40 Tons)	49		

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



33.88530, -93.27915



Asset #01385(Routine)

US 67 S-4 LM 1.53 over LITTLE MISSOURI RELIEF

Location: 1.53 MI NE OF NEVADA CO

Team Lead: Rickie Bratton Inspection Date: 04/25/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	01385
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	19 - Clark County
(4) Place Code	0
(6) Features Intersected	LITTLE MISSOURI RELIEF
(7) Facility Carried	US 67 S-4 LM 1.53
(9) Location	1.53 MI NE OF NEVADA CO
(11) Mile Point	1.53 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.8853010435226
(17) Longitude	-93.279150870772
(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	5
(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	1931
(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	1400
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	36 ft
(49) Structure Length	181 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	27 ft
(32) Approach Roadway Width (W/Shoulders)	41 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	24.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 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	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	6
(59) Superstructure	5
(60) Substructure	5
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(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	1207
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/25/2023		
(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.			



General Observation

Logged west to east.

51 - Bridge Roadway Width Curb-To-Curb (24)

03/9/2021 JPR-- Bridge Width Curb-to-Curb = 24' 0" per plans.

52 - Deck Width (27)

Deck Width = 27'0" per plans = to the edge of the traffic carrying component.

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

Curbs: Outside of curbs have spalls from traffic impact with cip posts.

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

Girders/Beams: Some chips and spalls. G 4 span 4 4' of cracks and 2' Delamination.

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

Slope Protection: Some slope erosion abutment 1 left.

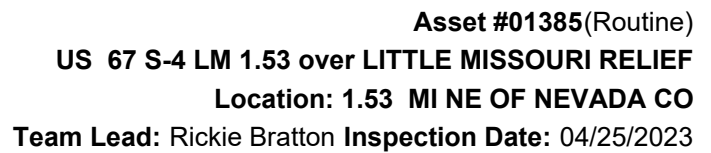
Columns: Some spalls. Bt 4 column 3-4-5 spalls with exposed steel. Moderate sec. Loss.

Piles: Some chips and spalls. All lower 1/4 of piles have very minor "finish" loss. All have a pebbled surface.

Pier Cap: Bt 2 cap 1' spall with exposed steel. Bt 4 cap 1' spall . Bt 5 cap left side large spall with exposed steel. Moderate + sec. Loss.with exposed steel.

A-2 - Wearing Surface Thickness (8)

03/9/2021 JPR -- Wearing Surface Thickness per plans the curb is (6.5" + 1.5" for parabolic crown) = 8" curb, and the wearing surface is flush with the top of the curb, see drawing # 2329 for the Cross Section.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	4887	4863	22	2	0
1120	Efflorescence/Rust Staining	SF	22	0	22	0	0
7000	Damage	SF	2	0	0	2	0
510	Wearing Surfaces	SF	4375	4105	270	0	0
3220	Crack (Wearing Surface)	SF	270	0	270	0	0
(16) Span 1 Lt. side @ the 3rd guardrail post backside of curb section has collision damage. 04/12/2021 JPR -- Reinforced Top Flange = (181'0" x 27'0") = 4887 sq.ft. per plans. (510-16) 04/12/2021 JPR -- Wearing Surfaces = (24'2" x 181'0") = (24.17' x 181') = 4374.77 sq.ft. or 4375 sq.ft. per plans.							
110	Reinforced Concrete Open Girder/Beam	LF	900	890	0	10	0
1080	Delamination/Spall/Patched Area	LF	4	0	0	4	0
1090	Exposed Rebar	LF	6	0	0	6	0
215	Reinforced Concrete Abutment	LF	60	58	2	0	0
6000	Scour	LF	2	0	2	0	0
(215) 04/05/2021 JPR --- Reinforced Concrete Abutment = (30' 0" x 2) = 60' 0" per plans on Layout sheet #2606.							
227	Reinforced Concrete Pile	EA	20	12	5	3	0
1090	Exposed Rebar	EA	3	0	0	3	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
234	Reinforced Concrete Pier Cap	LF	93	87	1	5	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	4	0	1	3	0
(234) Bent 5 Lt. cap has spall with exposed steel to end of cap. 04/05/2021 JPR -- Reinforced Concrete Pier Cap = (23.17' x 4) = 92.68' or 93'							
304	Open Expansion Joint	LF	54	54	0	0	0
(304) 04/12/2021 JPR -- Open Expansion Joint = (27'0" x 2) = 54' per plans, see layout for locations drwg. no. 2606 and drwg. no 2329 for details of expansion joints.							
331	Reinforced Concrete Bridge Railing	LF	362	352	0	10	0
7000	Damage	LF	10	0	0	10	0
(331) Span 1 Lt starting @ BR end and going through 3rd guardrail post, there is collision damage to guardrail and posts, mainly posts.							



Elevation



Span 5 soffit overview



Deck overview



Approach roadway Eastbound



Underside span. 1



Roadway



Profile

Maintenance Needs

Date Reported: 03/21/2011

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Abutment 1 Left side

Erosion has undercut the slope and shoulder @ the bridge end . This area will soon cut into/under the load path.
03/27/2017 JPR --Abutment 1 left showing hole @ edge of traffic path. Little or no change since last inspection.

Remarks



Abutment 1 left side slope erosion.



Abutment 1 Lt. slope erosion that is encroaching upon the white line.



Abutment 1 left showing hole @ edge of traffic path.



Erosion left side abutment 1

Maintenance Needs

Date Reported: 03/27/2017

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Abutment 1 Lt., BR. end post & 1st 3 guardrail posts have collision damage

Remarks

Collision damage has been repaired.



Abutment 1 Lt., BR. end post & 1st 3 guardrail posts have collision damage



Collision damage has been repaired.

Maintenance Needs

Date Reported: 03/28/2019

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Span 4 girders 4 and 5, spalled with exposed rebar.

Remarks



Span 4 girder 4 cracking and spall with exposed rebar

Maintenance Needs

Date Reported: 03/27/2017

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Bent 5 Lt. Cap is spalled on end with exposed steel with section loss.

Remarks



Bent 5 Lt. Cap is spalled on end with exposed steel with section loss.

Maintenance Needs

Date Reported: 03/28/2019

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Bent 4 piles 3-5 have spalled with exposed rebar.

Remarks



Bent 4 piles 3-5 spalls with exposed rebar



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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Location: 1.53 MI NE OF NEVADA CO

Team Lead: Rickie Bratton Inspection Date: 04/25/2023

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

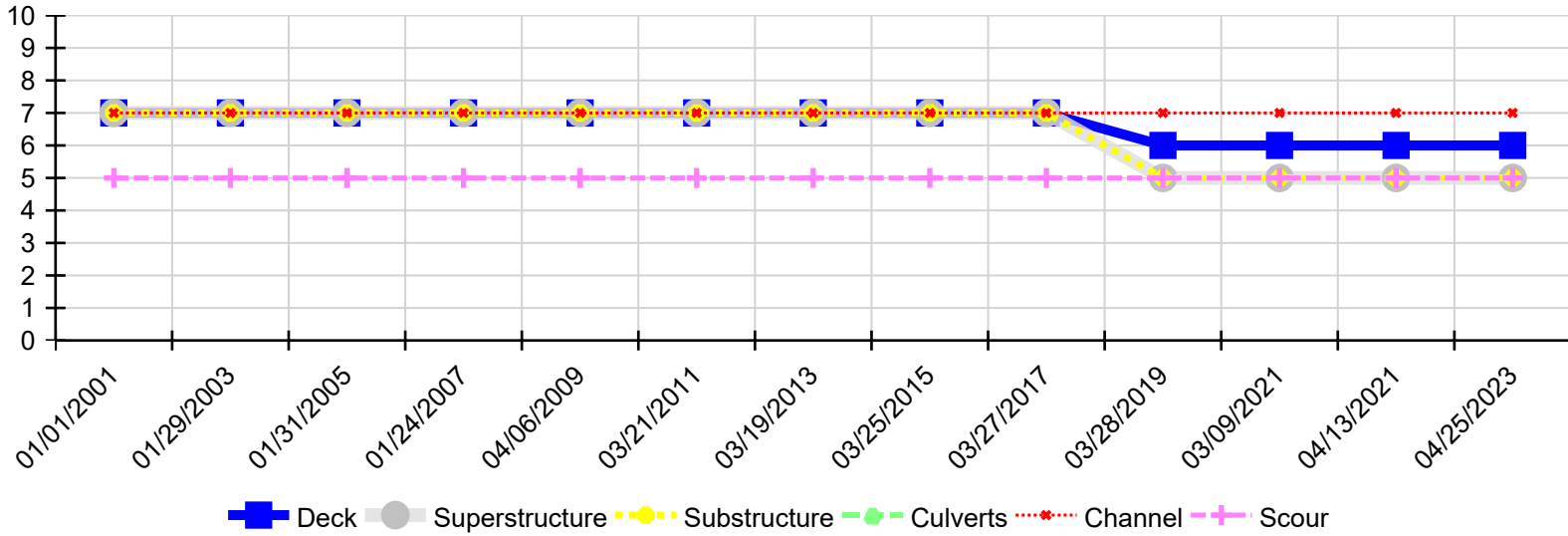
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



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US 67 S-4 LM 1.53 over LITTLE MISSOURI RELIEF
Location: 1.53 MI NE OF NEVADA CO
Team Lead: Rickie Bratton Inspection Date: 04/25/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/25/2023	6	5	5	N	7	5
04/13/2021	6	5	5	N	7	5
03/09/2021	6	5	5	N	7	5
03/28/2019	6	5	5	N	7	5
03/27/2017	7	7	7	N	7	5
03/25/2015	7	7	7	N	7	5
03/19/2013	7	7	7	N	7	5
03/21/2011	7	7	7	N	7	5
04/06/2009	7	7	7	N	7	5
01/24/2007	7	7	7	N	7	5
01/31/2005	7	7	7	N	7	5
01/29/2003	7	7	7	N	7	5
01/01/2001	7	7	7	N	7	5