



Latitude:33.91220, Longitude:-93.44490

Route:19 Section:05 Log:8.5

Arnold Road ID:50x19x5xA, Arnold Log mile:8.509

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

### Bridge Posting Information

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

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

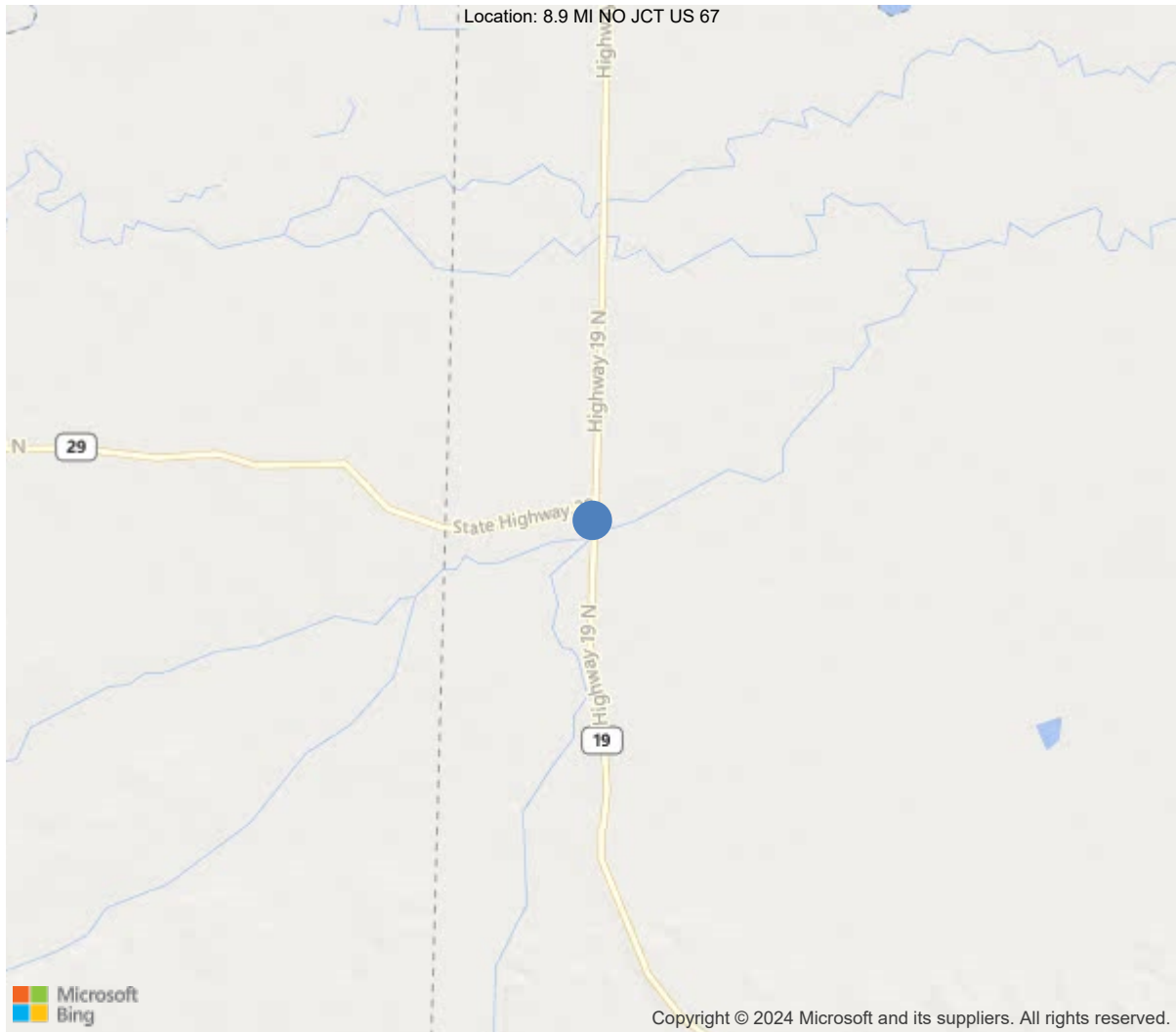
Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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





33.91220, -93.44490



Asset #05878(Routine)

SH 19 - 05 - 8.50 over BRUSHEY CREEK RELIEF

Location: 8.9 MI NO JCT US 67

Team Lead: John King Inspection Date: 10/02/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05878
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	0
(6) Features Intersected	BRUSHEY CREEK RELIEF
(7) Facility Carried	SH 19 - 05 - 8.50
(9) Location	8.9 MI NO JCT US 67
(11) Mile Point	8.5 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000
(16) Latitude	33.9122
(17) Longitude	-93.4449
(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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1988
(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	880
(30) Year of ADT	2018
(109) Truck ADT	29 %
(19) Bypass, Detour Length	22 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	107 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	41.7 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	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	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	8
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 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	8
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(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	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	0
(114) Future ADT	1155
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	10/02/2023		
(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.			





Asset #05878(Routine)

SH 19 - 05 - 8.50 over BRUSHEY CREEK RELIEF

Location: 8.9 MI NO JCT US 67

Team Lead: John King Inspection Date: 10/02/2023

### General Observation

BRIDGE BUILT ON JOB R30007 DRAWING NUMBER 23714

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

Deck at 7 good with minor cracking in all spans

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#### 59 - Superstructure (8 - VERY GOOD CONDITION - no problems noted.)

weathering steel beams are in very good condition

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

7 good due to erosion and scour with concrete repair around steel beams  
sand blasting material on all caps from joint repair also added light corrosion on all bearings.  
Bent 2 has some scouring and loss on rip to slope under span 1.

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#### 61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and

embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)  
channel is in good condition with some minor erosion around bents and in channel under bridge.

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#### A-3 - Weathering Steel (Yes)

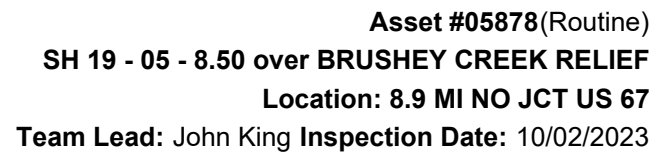
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#### A-58 - Cap Cleaning/Flushing Needed

Bent 1 photo of sand blasting material left on cap from joint repair.  
Bent 2 cap need cleaned.  
all other caps will also need cleaned off.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	5318	3273	2045	0	0
1120	Efflorescence/Rust Staining	SF	5	0	5	0	0
1130	Cracking (RC and Other)	SF	2000	0	2000	0	0
1190	Abrasion/Wear (PSC/RC)	SF	40	0	40	0	0
(12) Span 1 minor cracking in top of deck. all spans have some hair line cracking. Span 1 minor abrasion wearing to top of concrete deck. Span 2 has some abrasion wearing that has exposed coarse aggregate, aggregate remains secure in concrete.							
107	Steel Open Girder/Beam	LF	630	630	0	0	0
515	Steel Protective Coating	SF	12663	12663	0	0	0
(107) weathering steel beams are in very good condition. (515-107) Weathering steel beams have fully development and tightly adhere. Bottom flange has minor yellow color from water and dust collecting..							
215	Reinforced Concrete Abutment	LF	121	121	0	0	0
227	Reinforced Concrete Pile	EA	12	10	2	0	0
1080	Delamination/Spall/Patched Area	EA	2	0	2	0	0
(227) 10-26-21 Bent #2 pile #4 bottom spall Bent #3 pile #3 honeycomb bottom of pile							
234	Reinforced Concrete Pier Cap	LF	166	166	0	0	0
300	Strip Seal Expansion Joint	LF	164	164	0	0	0
(300) Typical joints are in good condition, looks to have been replaced in the past. .							
311	Movable Bearing	EA	18	18	0	0	0
(311) bearings are in good condition. sand blasting material needs removed, and caps cleaned off. Bearing may have some very minor discoloring but no texture at this time							
313	Fixed Bearing	EA	18	18	0	0	0
(313) Bearing may have some very minor discoloring but no texture at this time							
331	Reinforced Concrete Bridge Railing	LF	214	214	0	0	0
(331) Concrete parapet wall in good condition							



Typical underside of concrete deck



Typical photo of concrete parapet wall



Typical bearings photo



Channel to right side bridge





Channel on left side bridge.



Typical superstructure photo with weathering steel beams



Bent 2 has some scouring and loss on rip to slope under span 1



Bent 3 cap photo.

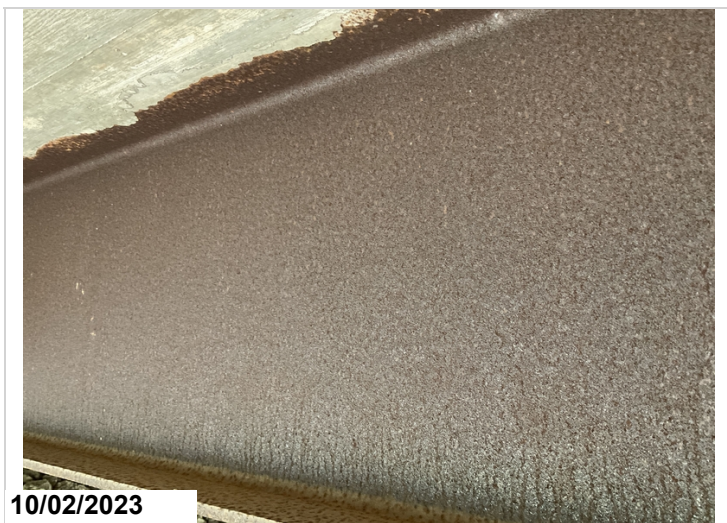




Bent 3 pile 3 honeycomb area at ground line



Abutment 1 photo



Weathering steel beams



Steel beams photo taken in span 1





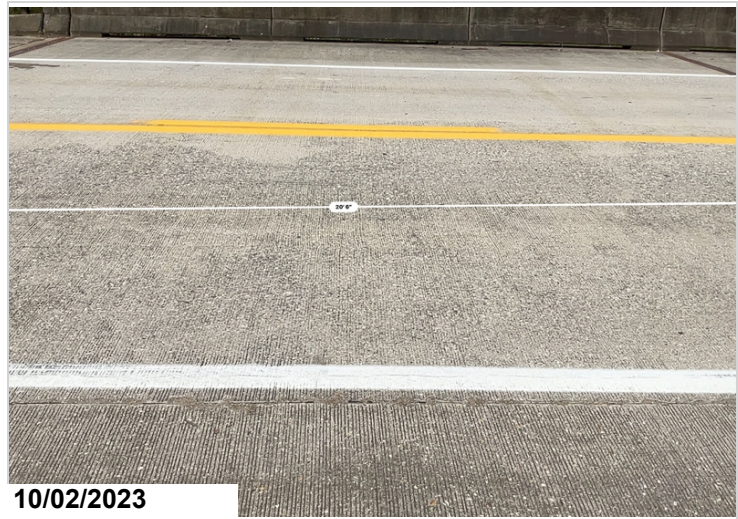
Bent 2 cap need cleaned



Bent 1 photo of sand blasting material left on cap from joint repair.



10/23 alignment



Span 1 abrasion wearing to top of concrete deck





Typical joints are in good condition



Span 1 minor cracking in top of deck



Deck photo



10/23 alignment



### Maintenance Needs

Date Reported: 01/24/2012

Priority: D- Routine

Type of Work: Repair (General)

Status: Assigned

Component: Substructure

### Deficiency Description

BENT 2 MATERIAL HAS WASHED AWAY FROM COLUMNS  
updated photo little to no change in condition.

### Remarks

.Bent #3 has been repaired Bent #2 has erosion



10/23 update photo



10/23 update photo



Bent 2 erosion



BENT 2 AT PILE 2 EROSION





Erosion Bent #2



EROSION AT END BENT SLOPE



BENT 2 AND 3. MATERIAL HAS WASHED AWAY FROM COLUMNS. This photo of BT 3



BENT 2 AND 3. MATERIAL HAS WASHED AWAY FROM COLUMNS.





## 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**

**A-57 - Girder End and Bearing Painting Needed**

**A-58 - Cap Cleaning/Flushing Needed**

Bent 1 photo of sand blasting material left on cap from joint repair.

Bent 2 cap need cleaned.

all other caps will also need cleaned off.



Bent 2 cap need cleaned



Bent 1 photo of sand blasting material left on cap from joint repair.

**A-59 - Joint Repair Needed**

**A-60 - Full Girder Painting Needed**

**A-61 - Polymer Overlay Advised**

**A-62 - Hydro and LMC Advised**



**Asset #05878(Routine)**

**SH 19 - 05 - 8.50 over BRUSHEY CREEK RELIEF**

**Location: 8.9 MI NO JCT US 67**

**Team Lead: John King Inspection Date: 10/02/2023**

**A-63 - Missing/Incorrect Log Mile Signage**

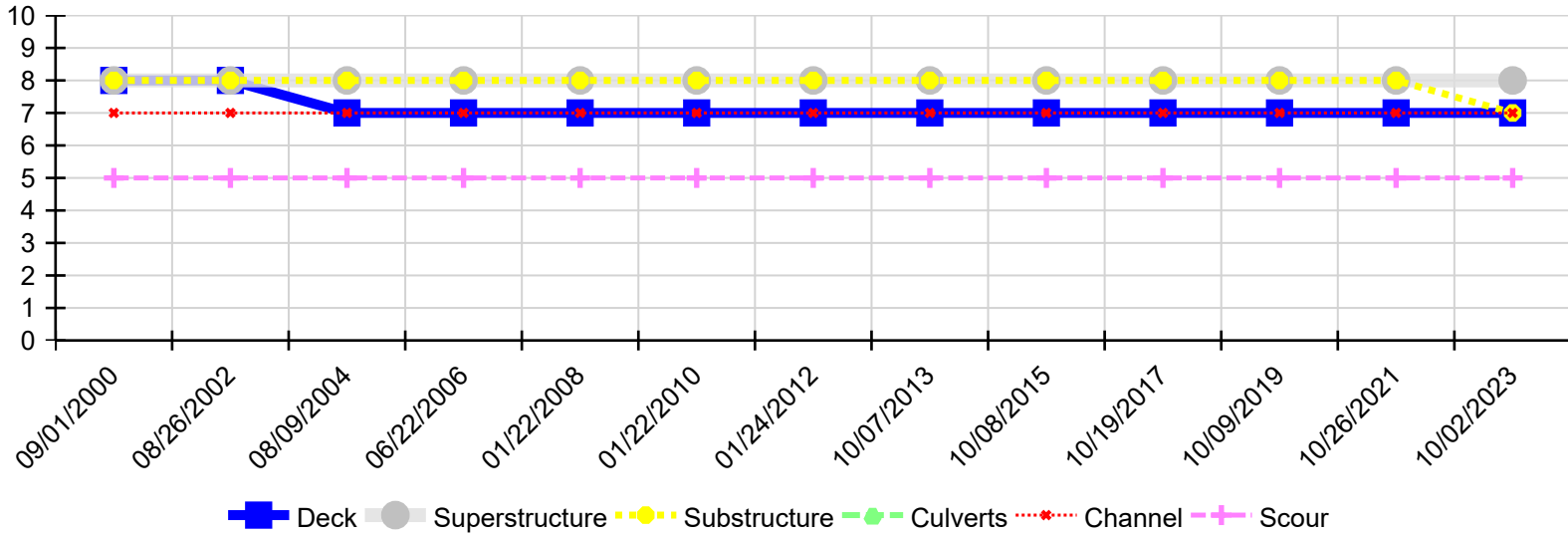
**A-64 - Vegetation Removal Requested**





**Asset #05878(Routine)**  
**SH 19 - 05 - 8.50 over BRUSHEY CREEK RELIEF**  
**Location: 8.9 MI NO JCT US 67**  
**Team Lead: John King Inspection Date: 10/02/2023**

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/02/2023	7	8	7	N	7	5
10/26/2021	7	8	8	N	7	5
10/09/2019	7	8	8	N	7	5
10/09/2019	7	8	8	N	7	5
10/19/2017	7	8	8	N	7	5
10/08/2015	7	8	8	N	7	5
10/07/2013	7	8	8	N	7	5
01/24/2012	7	8	8	N	7	5
01/22/2010	7	8	8	N	7	5
01/22/2008	7	8	8	N	7	5
06/22/2006	7	8	8	N	7	5
08/09/2004	7	8	8	N	7	5
08/26/2002	8	8	8	N	7	5
09/01/2000	8	8	8	N	7	5