



Latitude:33.55558, Longitude:-93.13833

Route:278 Section:07 Log:22.59

Arnold Road ID:50x278x7xA, Arnold Log mile:21.704

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

### Bridge Posting Information

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

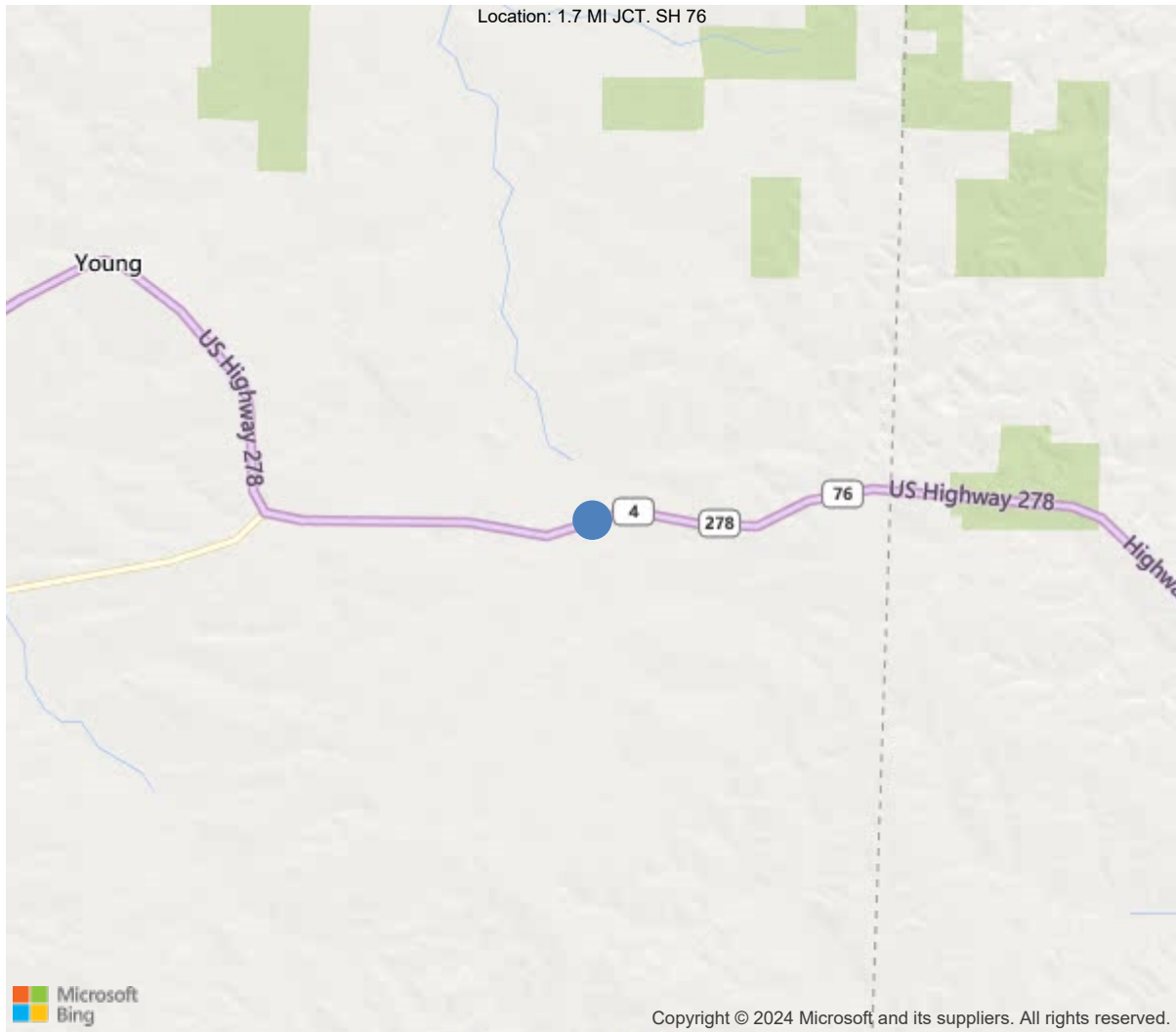
70 - Bridge Posting: 5 - Equal to or above legal loads

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



33.55558, -93.13833





Asset #06673(Routine, Underwater type 2)

US 278 - 07 -22.59 over CYPRESS CREEK

Location: 1.7 MI JCT. SH 76

Team Lead: John King, Inspection Date: 02/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06673
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	0
(6) Features Intersected	CYPRESS CREEK
(7) Facility Carried	US 278 - 07 -22.59
(9) Location	1.7 MI JCT. SH 76
(11) Mile Point	22.59 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	
(16) Latitude	33.55558
(17) Longitude	-93.13833
(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	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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1997
(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	1100
(30) Year of ADT	2018
(109) Truck ADT	25 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	118 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	35.4 ft
(52) Deck Width Out to Out	38.2 ft
(32) Approach Roadway Width (W/Shoulders)	39 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	36.1 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	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	1200
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	02/14/2022		
(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 #06673(Routine, Underwater type 2)

District: 03, County: 99 - Nevada County

Team Lead: John King, Inspection Date: 02/14/2022

### General Observation

2/19/2020...AL, Elevation, Deck, Def. Photos taken...

02/2022 alignment, elevation, photos taken per inspection. Soundings taken this inspection.

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

2/02/2018 AL,SS,DECK PHOTOS TAKEN PER THIS INSPECTION...

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

Reinforced concrete tee beam abutments at both ends of bridge Diaphragm between tee beams are spalled no rebar exposed.... no Maint. need done at this time.

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

Backwall: Spalls abutment 1&5 on rt side

02/2022 soundings taken per this inspection..

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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.)

02/2022 soundings taken per this inspection.

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#### A-37 - Notes (JOB # R30087 LAYOUT DRAWING 37660 BM RT SIDE PARAPET WALL.....2/02/2018 AL,SS,DECK PHOTOS TAKEN PER THIS INSPECTION...)

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**Asset #06673**(Routine, Underwater type 2)

**US 278 - 07 -22.59 over CYPRESS CREEK**

**Location: 1.7 MI JCT. SH 76**

**Team Lead: John King, Inspection Date: 02/14/2022**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	4511.4	4366.4	115	30	0
1080	Delamination/Spall/Patched Area	SF	30	0	0	30	0
1120	Efflorescence/Rust Staining	SF	15	0	15	0	0
1130	Cracking (RC and Other)	SF	100	0	100	0	0
(1080-12) 2/19/2020... Approx. 10 ft spall on horizontal deck wall at bent 1 under beam 5, Approx. 20 ft of spalling on horizontal deck wall at bent 5...							
110	Reinforced Concrete Open Girder/Beam	LF	590.5	590.5	0	0	0
(110) 2/19/2020...Minor cracks on concrete tee beams in various locations...02/2022 abutments at both ends of bridge Diaphragm between tee beams are spalled no rebar exposed.... no maint. need at this time							
215	Reinforced Concrete Abutment	LF	102.3	82.3	0	20	0
1080	Delamination/Spall/Patched Area	LF	20	0	0	20	0
(1080-215) abutments at both ends of bridge Diaphragm between tee beams are spalled no rebar exposed....							
227	Reinforced Concrete Pile	EA	15	15	0	0	0
234	Reinforced Concrete Pier Cap	LF	116.1	116.1	0	0	0
301	Pourable Joint Seal	LF	177	62	0	105	10
2320	Seal Adhesion	LF	115	0	0	105	10
(301) 2/22 Joints need cleaned and repaired typical all joints							
(2320-301) 2/19/2020...10' of pourable joint seal missing, bents 2 and 3...							
331	Reinforced Concrete Bridge Railing	LF	236	236	0	0	0



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## Deck

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(1080-12) 2/19/2020... Approx. 10 ft spall on horizontal deck wall at bent 1 under beam 5, Approx. 20 ft of spalling on horizontal deck wall at bent 5...							

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

Comment: 2/02/2018 AL,SS,DECK PHOTOS TAKEN PER THIS INSPECTION...





Asset #06673(Routine, Underwater type 2)

US 278 - 07 -22.59 over CYPRESS CREEK

Location: 1.7 MI JCT. SH 76

Team Lead: John King, Inspection Date: 02/14/2022

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	590.5	590.5	0	0	0
(110) 2/19/2020...Minor cracks on concrete tee beams in various locations...02/2022 abutments at both ends of bridge Diaphragm between tee beams are spalled no rebar exposed.... no maint. need at this time							

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

Comment: Reinforced concrete tee beam abutments at both ends of bridge Diaphragm between tee beams are spalled no rebar exposed.... no Maint. need done at this time.



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US 278 - 07 -22.59 over CYPRESS CREEK

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## Substructure

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

Comment: Backwall: Spalls abutment 1&5 on rt side  
02/2022 soundings taken per this inspection..

### 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.)

Comment: 02/2022 soundings taken per this inspection.



Elevation



Alignment



Deck



Underside of deck typical all spans





Alignment



Elevation



Approx. 10 ft spall on horizontal deck wall at bent 1 under beam 5...



Approx. 20 ft of spalling on horizontal deck wall at bent 5.





Minor cracks on concrete tee beams in various locations



02/22 typical deck photo



02/22 typical bottom of deck and beams



02/2022 typical bents





02/2022 efflorescence



2022 cracking in deck

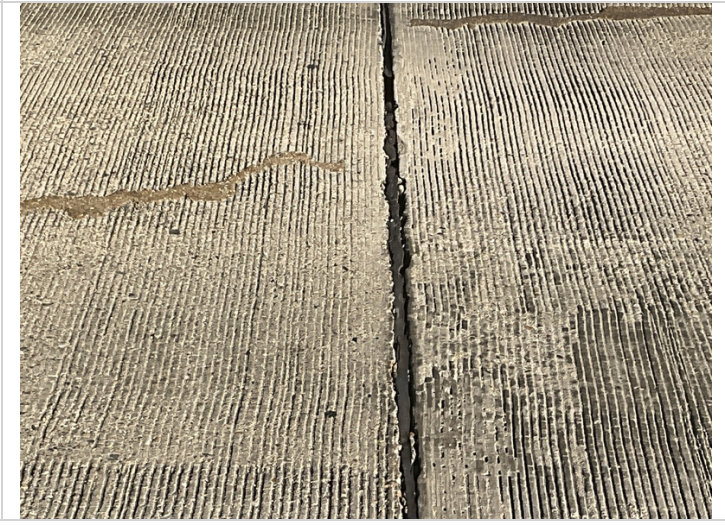


Abutment 1 right side spall



Joints need cleaned and repaired typical all joints





Joints need cleaned and repaired typical all joints



**Asset #06673**(Routine, Underwater type 2)

**US 278 - 07 -22.59 over CYPRESS CREEK**

**Location: 1.7 MI JCT. SH 76**

**Team Lead:** John King, **Inspection Date:** 02/14/2022

#### Maintenance Needs

**Date Reported:** 02/14/2022

**Priority:** D- Routine

**Type of Work:** Replace (General)

**Status:** Open

**Component:** Element

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#### Deficiency Description

Joints need cleaned and repaired typical all joints

#### Remarks

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Joints need cleaned and repaired typical all joints



Joints need cleaned and repaired typical all joints



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**US 278 - 07 -22.59 over CYPRESS CREEK**

**Location: 1.7 MI JCT. SH 76**

**Team Lead:** John King, **Inspection Date:** 02/14/2022

## **Routine Maintenance**

Check Box Maintenance Items

<b>Type of Maintenance</b>	<b>Is recommended?</b>
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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**US 278 - 07 -22.59 over CYPRESS CREEK**

**Location: 1.7 MI JCT. SH 76**

**Team Lead: John King, Inspection Date: 02/14/2022**

**A-57 - Beam End and Bearing Painting 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**



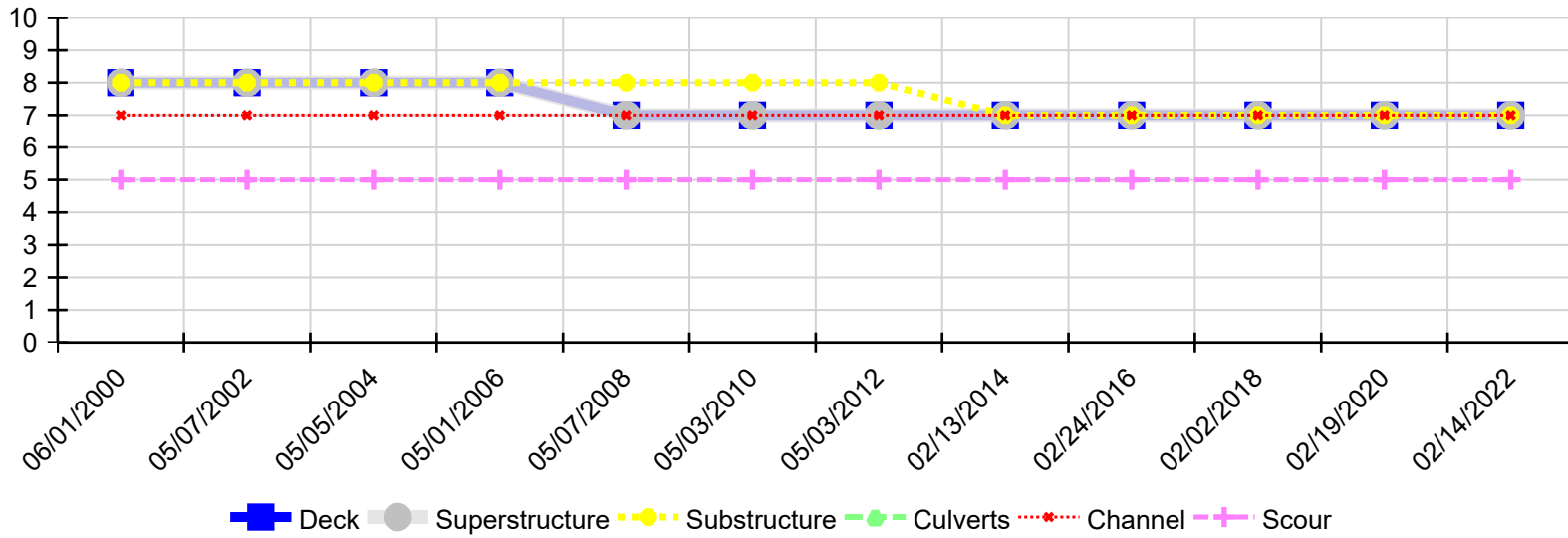
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Location: 1.7 MI JCT. SH 76

Team Lead: John King, Inspection Date: 02/14/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/14/2022	7	7	7	N	7	5
02/19/2020	7	7	7	N	7	5
02/02/2018	7	7	7	N	7	5
02/24/2016	7	7	7	N	7	5
02/13/2014	7	7	7	N	7	5
05/03/2012	7	7	8	N	7	5
05/03/2010	7	7	8	N	7	5
05/07/2008	7	7	8	N	7	5
05/01/2006	8	8	8	N	7	5
05/05/2004	8	8	8	N	7	5
05/07/2002	8	8	8	N	7	5
06/01/2000	8	8	8	N	7	5