



Latitude:34.64935, Longitude:-92.41733

Route:30 Section:23 Log:128.02

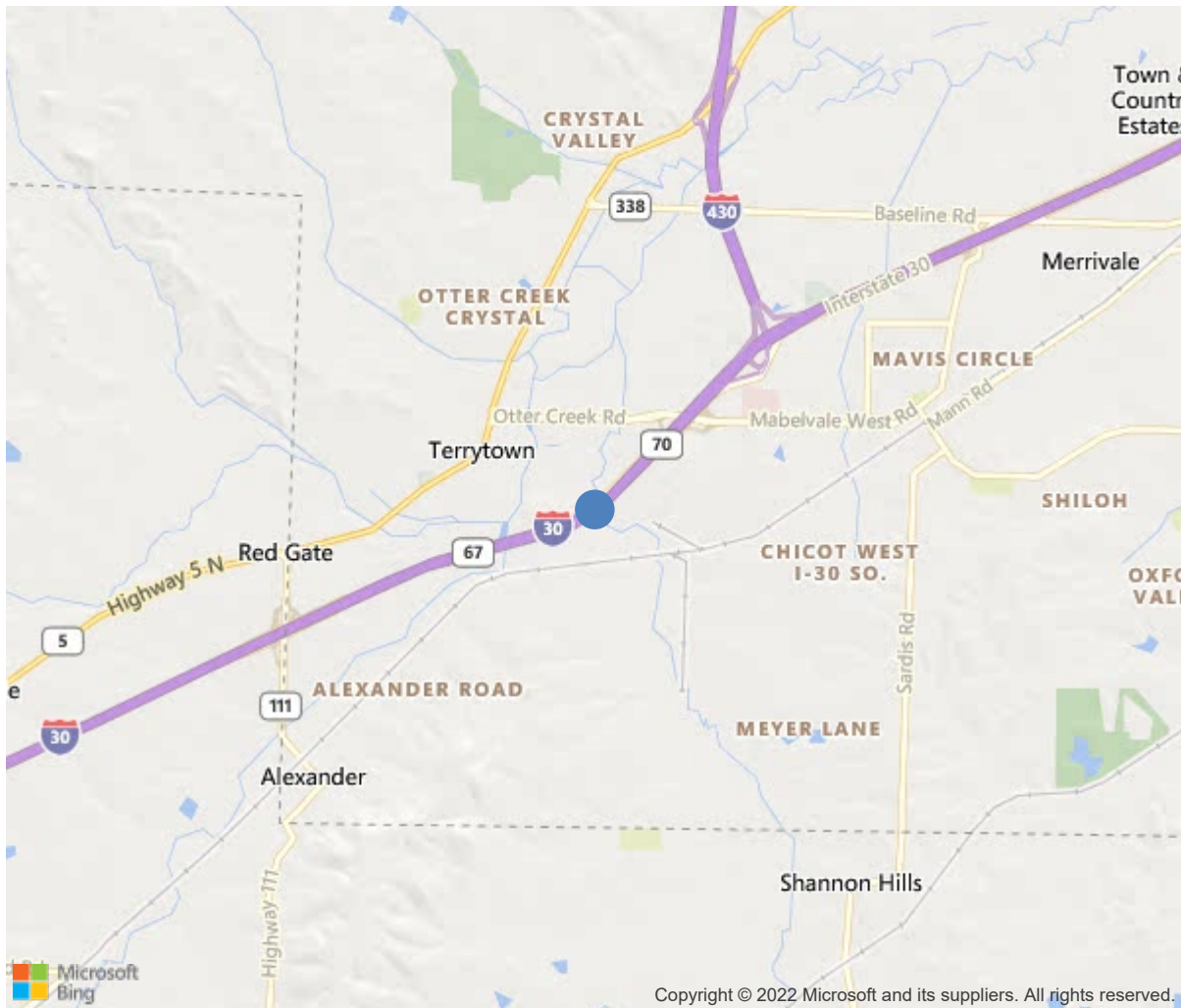
Arnold Road ID:60x30x23xA, Arnold Log mile:127.961

District 06, Pulaski County

Owner: 1-State Highway Agency

Place Code: 41000 - Little Rock

1.8 MI E JCT SH 111



34.64935, -92.41733



Bridge #A6357(Routine)

I-30 EB log 128.02 over OTTER CREEK

Location: 1.8 MI E JCT SH 111

Team Lead: Bryan Saunders Inspection Date: May 19, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A6357
(5) Inventory Route	30
(2) Highway Agency District	06
(3) County Code	119-Pulaski County, Arkansas
(4) Place Code	41000
(6) Features Intersected	OTTER CREEK
(7) Facility Carried	I-30 EB log 128.02
(9) Location	1.8 MI E JCT SH 111
(11) Mile Point	128.02 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030230
(16) Latitude	34.64935
(17) Longitude	-92.41733
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
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	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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1995
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	3
Under	0
(29) Average Daily Traffic	46000
(30) Year of ADT	2018
(109) Truck ADT	21 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	142 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	56.1 ft
(52) Deck Width Out to Out	60.3 ft
(32) Approach Roadway Width (W/Shoulders)	56.1 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	57.4 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 water
(111) Pier Protection	1-Navigation protection not requ
(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	1
(26) Functional Class	11-Urban Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	R-The right structure of paralle
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
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	6-MS 18+Mod / HS 20+Mod
(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	5
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	7
(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 currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-Bridge foundations determined to be
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	58328
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/2021		
(91) Frequency	24 Months		
(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.			



Bridge #A6357 (Routine)

I-30 EB log 128.02 over OTTER CREEK

Location: 1.8 MI E JCT SH 111

Team Lead: Bryan Saunders, Inspection Date: May 19, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8447	6321	1226	900	0
1080	Delamination/Spall/Patched Area	SF	6	0	6	0	0
1120	Efflorescence/Rust Staining	SF	60	0	60	0	0
1130	Cracking (RC and Other)	SF	2060	0	1160	900	0
(12)	unsealed cracks in all spans up to .035" Overhang has cracks with efflorescence						
107	Steel Open Girder/Beam	LF	1240	1239	1	0	0
1020	Connection	LF	1	0	1	0	0
515	Steel Protective Coating	SF	7031	6605	426	0	0
3410	Chalking (Steel Protective Coatings)	SF	426	0	426	0	0
(107)	Bent 1, girder 1: diaphragm bolt missing (107-515) The outside beams are chalking.						
215	Reinforced Concrete Abutment	LF	141	130	9	2	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	9	0	9	0	0
(215)	Spalls with rebar in back wall bent 6. Both abutments have small cracks. Added 5/17/17 Bent 1, between girders 7 & 8: material is being eroded from under the beam seat exposing the steel pile						
225	Steel Pile	EA	36	36	0	0	0
515	Steel Protective Coating	SF	2790	2580	210	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	210	0	210	0	0
(225)	Silt and dirt sitting on top of the concrete encasement, causing the protective coating to lose its effectiveness.						
234	Reinforced Concrete Pier Cap	LF	238	237	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(234)	Small spall on the left end of bent 5 ahead.						
302	Compression Joint Seal	LF	121	50	40	23	8



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Location: 1.8 MI E JCT SH 111

Team Lead: Bryan Saunders, **Inspection Date:** May 19, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2310	Leakage	LF	8	0	0	0	8
2330	Seal Damage	LF	63	0	40	23	0
(302)	Torn joint seal at bent 1						
311	Movable Bearing	EA	36	26	8	2	0
1000	Corrosion	EA	9	0	8	1	0
2220	Alignment	EA	1	0	0	1	0
(311)	Rust forming on the bearings at end bents. See photo. Bent 6, girder 1: dirt and debris accumulating around bearing allowing pack rust to form. Bent 6 Girder 6: bearing is floating, causing the sole and masonry plates to collide against each other.						
313	Fixed Bearing	EA	18	18	0	0	0
321	Reinforced Concrete Approach Slab	SF	2628	2508	115	5	0
1080	Delamination/Spall/Patched Area	SF	5	0	0	5	0
1130	Cracking (RC and Other)	SF	115	0	115	0	0
(321)	Spalls on west approach slab.						
331	Reinforced Concrete Bridge Railing	LF	280	280	0	0	0



Deck overview



Span 4, large transverse crack.



Span 2, large transverse cracks.



Bent 1 right side, missing joint seal.



Approach



Bent 1 bearing 3.



Bent 2, piles 1-3, spalls on concrete encasement.



Typical soffit



Bent 6 bearing 1, corrosion.



Bent 6 bearing 1, debris around bearing.



Bridge #A6357 (Routine)
I-30 EB log 128.02 over OTTER CREEK

Location: 1.8 MI E JCT SH 111

Team Lead: Bryan Saunders **Inspection Date:** May 19, 2021

Maintenance Needs

Date Reported: 05/30/2013
Priority: D- Routine
Type of Work: Repair
Status: Repair Documented
Component: Approach

Deficiency Description

Road iron loose and popping under traffic at both abutments.

Remarks

Defect repaired by state forces.

Date Reported: 05/25/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Deck has large unsealed cracks up to 1/8 inch wide and some on 3 to 4 feet centers.

Remarks



Span 5 unsealed cracks up to 1/8"



Span 2 large unsealed cracks up to 1/8" on 3 to 4 foot spacing. Common all spans.



Span 4 unsealed cracks up to 1/8"



Span 4, large transverse crack.



Span 2, large transverse cracks.

Date Reported: 05/25/2011
Priority: D- Routine
Type of Work: Clean
Status: Monitor
Component: 225 - Steel Pile

Deficiency Description

Steel Pile at bents 2,3,4 & 5
Pile at top of encasement, dirt and silt causing rust to form.

Remarks



Bent 4 Pile at top of encasement has dirt and silt causing rust to form.

Date Reported: 05/14/2015
Priority: C - Important
Type of Work: Clean
Status: Assigned
Component: Channel

Deficiency Description

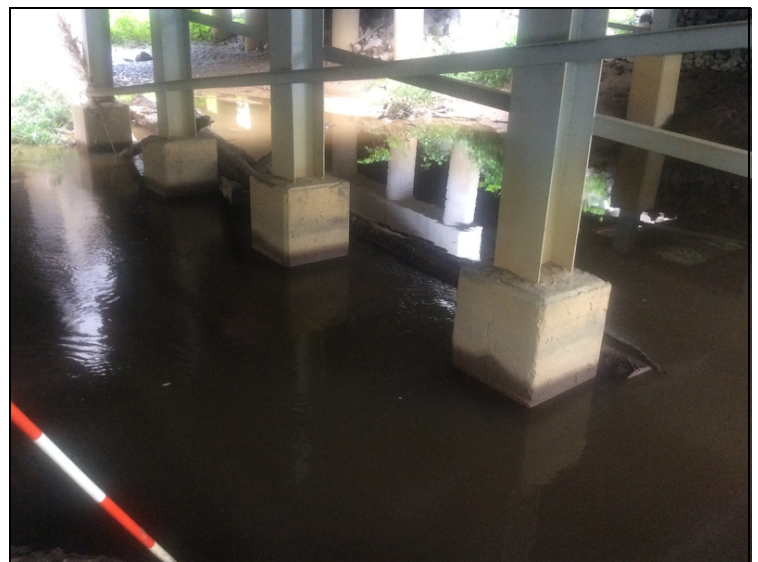
Bent 4 logs and debris restricting water flow.

Remarks

Assigned Pulaski 2 06602 9-28-15



Bent 4: large trees laying against piling



Bent 4 logs and debris restricting water flow.



Bent 4 logs and debris restricting water flow



Bent 4, debris buildup around piling.

Date Reported: 05/17/2017
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Bent 1, between girders 7 & 8: material is being eroded from under the beam seat exposing piling.

Remarks



Bent 1, between girders 7 & 8: material is being eroded from under the beam seat exposing piling.



Bent 1, erosion under the abutment exposing pile
between beams 7 and 8.



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Location: 1.8 MI E JCT SH 111

Team Lead: Bryan Saunders Inspection Date: May 19, 2021

Inspection Comments

Approach looking eastbound.

See AHTD job # B60120