



Latitude:35.12905, Longitude:-90.29305

Route:147 Section:01 Log:14.09

Arnold Road ID:18x147x1xA, Arnold Log mile:14.094

District 01, 35 - Crittenden County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Bridge Posting Information

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

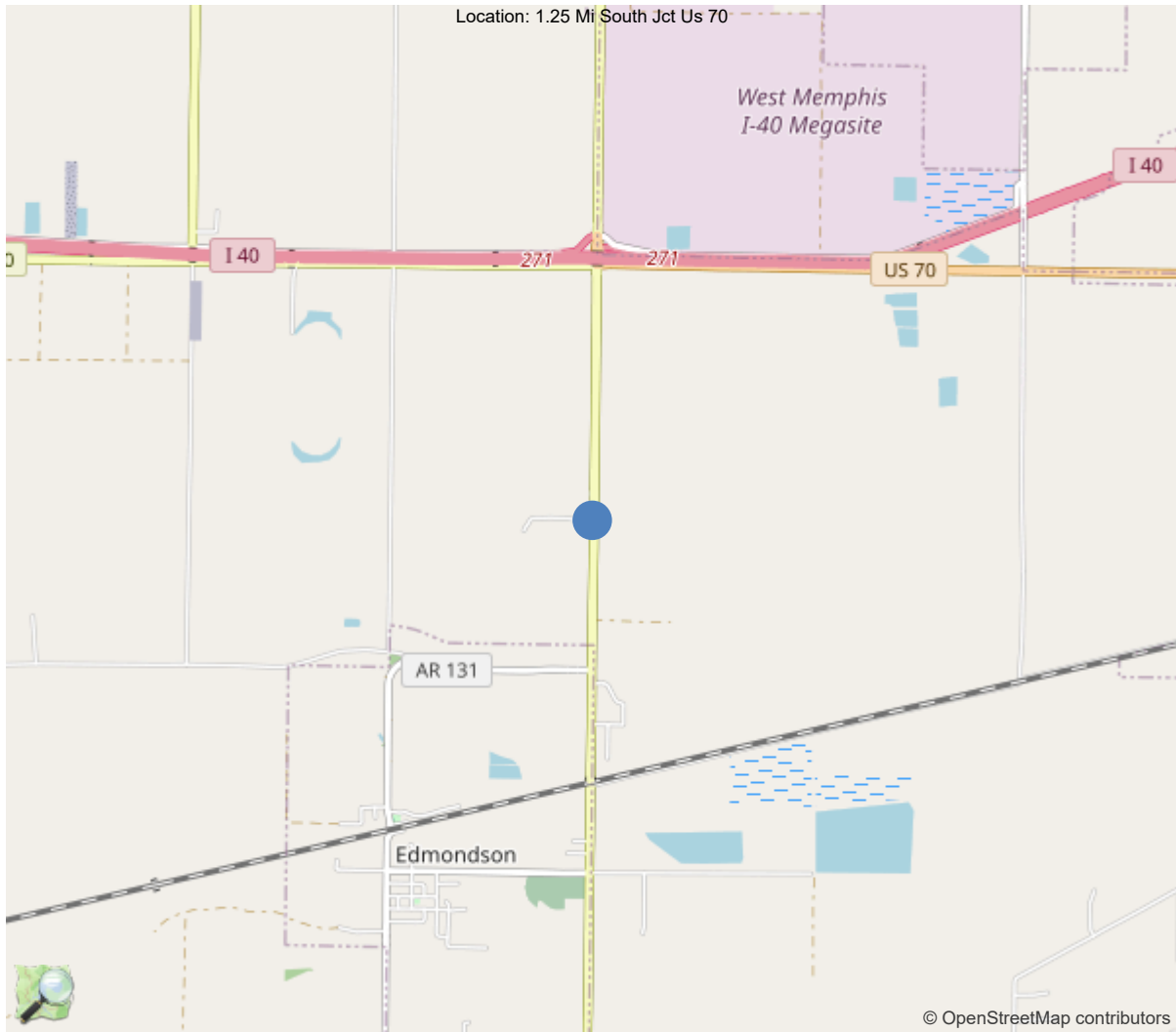
70 - Bridge Posting: 5 - Equal to or above legal loads

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



35.12905, -90.29305



Asset #07183(Routine, Underwater type 2)

Sh-147/Sec1/L14.09 over Fifteen Mile Bayou

Location: 1.25 Mi South Jct Us 70

Team Lead: Myron Futrell Inspection Date: 07/26/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	07183
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	35 - Crittenden County
(4) Place Code	0
(6) Features Intersected	Fifteen Mile Bayou
(7) Facility Carried	Sh-147/Sec1/L14.09
(9) Location	1.25 Mi South Jct Us 70
(11) Mile Point	14.09 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.129051
(17) Longitude	-90.293053
(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	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 pl
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2012
(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	3100
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	53 ft
(49) Structure Length	224 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	43.2 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	45 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 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 exis
(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 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	8
(60) Substructure	7
(61) Channel & Channel Protection	8
(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	9
(72) Approach Roadway Alignment	9
(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	
(114) Future ADT	4200
(115) Year of Future ADT	2030

INSPECTIONS *			
(90) Inspection Date	07/26/2022		
(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 #07183(Routine, Underwater type 2)

Sh-147/Sec1/L14.09 over Fifteen Mile Bayou

Location: 1.25 Mi South Jct Us 70

Team Lead: Myron Futrell Inspection Date: 07/26/2022

General Observation

Trees and vegetation growing under and beside bridge.

Abutment #1 right approach rail has two small areas of minor damage.

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

07/28/2020 lowered deck from 8 to 7 due to a few cs2 cracks.

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

07/28/2020 lowered substructure from 8 to 7 due to cracks in back walls and light rust on steel piles.



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Sh-147/Sec1/L14.09 over Fifteen Mile Bayou
Location: 1.25 Mi South Jct Us 70
Team Lead: Myron Futrell Inspection Date: 07/26/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	9540	7916	1624	0	0
1120	Efflorescence/Rust Staining	SF	224	0	224	0	0
1130	Cracking (RC and Other)	SF	1400	0	1400	0	0
(12) Gutters are full of debris. Deck has a few cs2 transverse and longitudinal cracks. Soffit overhangs have transverse cracks with efflorescence.							
107	Steel Open Girder/Beam	LF	1105	1105	0	0	0
515	Steel Protective Coating	SF	7536	0	7536	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	7536	0	7536	0	0
(515-107) Steel protective coating has granular texture.							
215	Reinforced Concrete Abutment	LF	182	121	61	0	0
1120	Efflorescence/Rust Staining	LF	61	0	61	0	0
(215) Abutment backwalls have vertical cracks, some with efflorescence.							
225	Steel Pile	EA	24	0	24	0	0
1000	Corrosion	EA	24	0	24	0	0
515	Steel Protective Coating	SF	226	0	214	0	12
3440	Effectiveness (Steel Protective Coatings)	EA	226	0	214	0	12
(225) Steel piles have spotty rust though out paint 5% effected.							
234	Reinforced Concrete Pier Cap	LF	226	226	0	0	0
301	Pourable Joint Seal	LF	119	118	0	0	1
2310	Leakage	LF	1	0	0	0	1
(301) Abutment #2 joint right lane has a six inch tear in joint seal.							
310	Elastomeric Bearing	EA	30	27	0	3	0
1020	Connection	EA	3	0	0	3	0
(310) Girder #2 at abutment #2 is missing right bearing nut. Girder #3 at abutment #2 is missing right & left bearing nut. Girder #5 at abutment #2 is missing right bearing nut.							
321	Reinforced Concrete Approach Slab	SF	2712	1992	600	120	0
1130	Cracking (RC and Other)	SF	720	0	600	120	0
(321) Approach slabs have longitudinal and transverse cracks.							
331	Reinforced Concrete Bridge Railing	LF	448	299	149	0	0
1130	Cracking (RC and Other)	LF	149	0	149	0	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(331) Bridge rails have cs2 vertical cracks spaced approximately three feet apart.						



Side view / elevation

Maintenance Needs

Date Reported: 07/23/2018

Priority: C - Important

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Monitor

Component: Channel

Deficiency Description

Trees and vegetation growing under and beside bridge.

Remarks



Vegetation growing beside and under bridge



Typical trees and vegetation.

Maintenance Needs

Date Reported: 07/27/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

Approach slabs have unsealed transverse and longitudinal cracks

Remarks



Typical transverse crack in approach slab

Maintenance Needs

Date Reported: 07/27/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

Abutment #2 right approach gutter has 2' x 6' cracked / delaminated area

Remarks



07/26/2022

Abutment #2 right approach gutter has 2' x 6' cracked /
delaminated area

Maintenance Needs

Date Reported: 07/27/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

Deck has several unsealed transverse and longitudinal cracks.

Remarks



Typical transverse deck crack



Typical longitudinal deck crack

Maintenance Needs

Date Reported: 07/13/2016

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Monitor

Component: Deck

Deficiency Description

Gutters are full of debris.

7/26/2022-Gutters have been cleaned, small amount of dirt has started to accumulate at time of inspection.

Remarks



Gutters have been cleaned at time of inspection



Dirt and debris in gutters.

Maintenance Needs

Date Reported: 07/10/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Girder #2 at abutment #2 is missing right bearing nut.

Girder #3 at abutment #2 is missing right & left bearing nut.

Girder #5 at abutment #2 is missing right bearing nut.

Remarks



Abutment #2 typical missing bearing nut.

Maintenance Needs

Date Reported: 07/27/2022

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Open

Type of Work: Repair (General)

Component: Element

Deficiency Description

Paint system on piles beginning to fail.

Remarks



Typical paint on piles



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Location: 1.25 Mi South Jct Us 70

Team Lead: Myron Futrell Inspection Date: 07/26/2022

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: 1.25 Mi South Jct Us 70

Team Lead: Myron Futrell Inspection Date: 07/26/2022

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

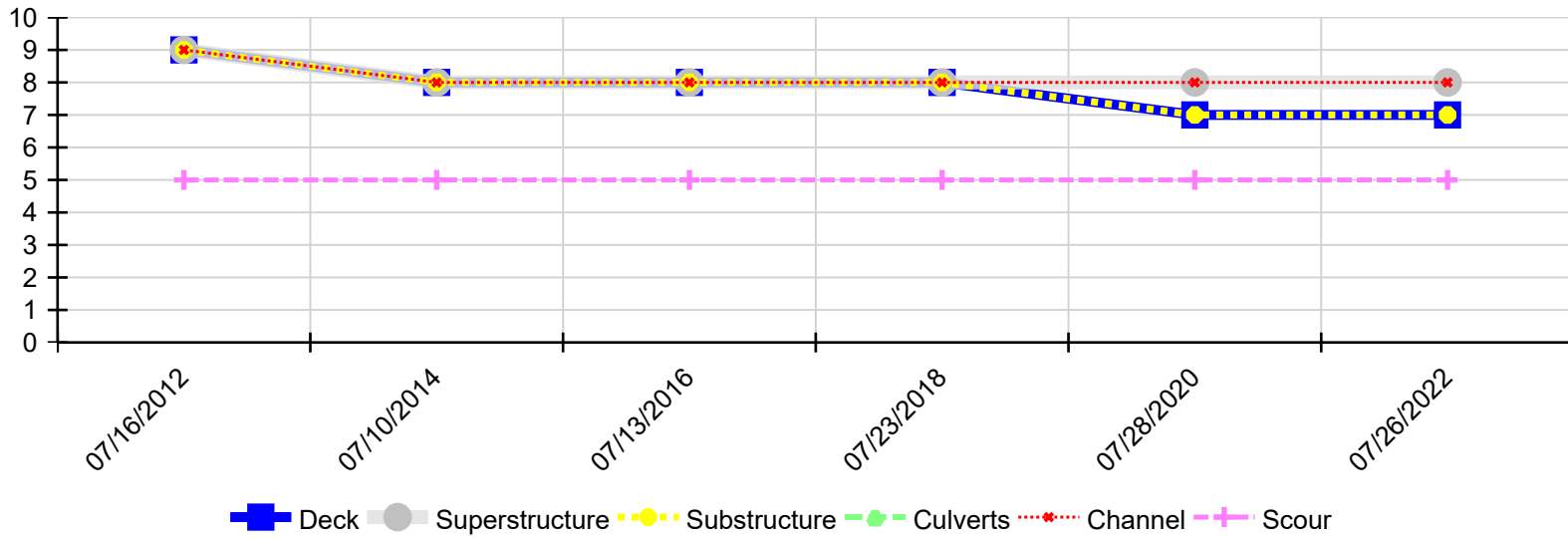
A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

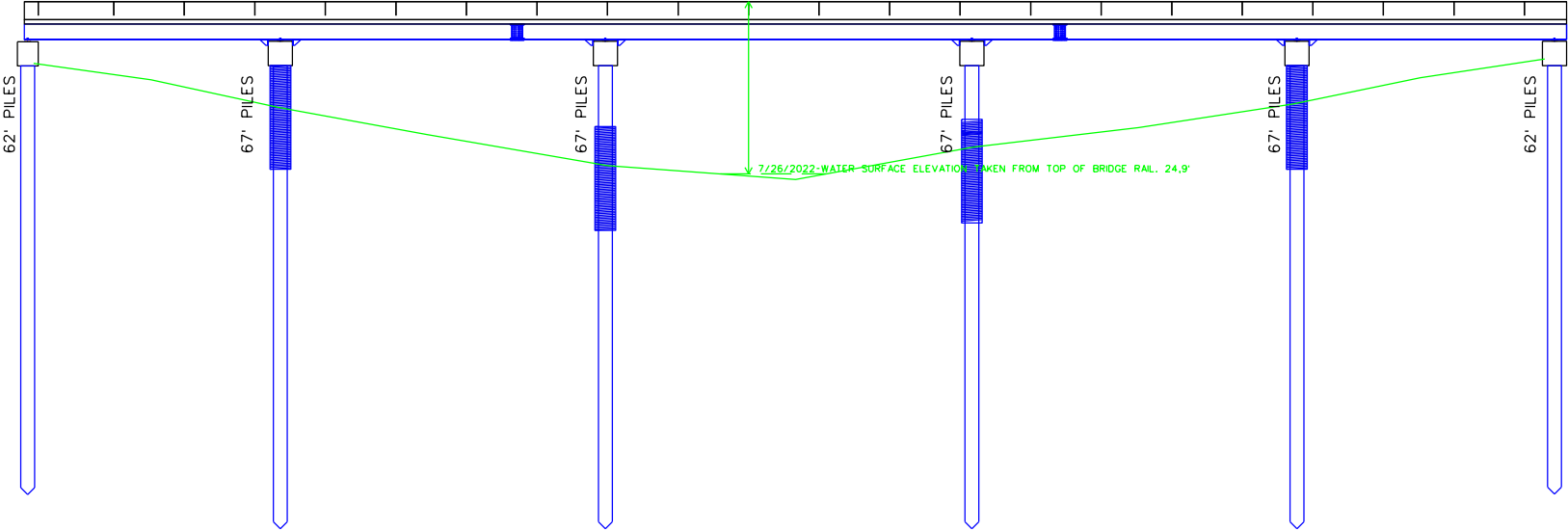
A-64 - Vegetation Removal Requested

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/26/2022	7	8	7	N	8	5
07/28/2020	7	8	7	N	8	5
07/23/2018	8	8	8	N	8	5
07/13/2016	8	8	8	N	8	5
07/10/2014	8	8	8	N	8	5
07/16/2012	9	9	9	N	9	5

BRIDGE #07183
CHANNEL PROFILE
RIGHT SIDE



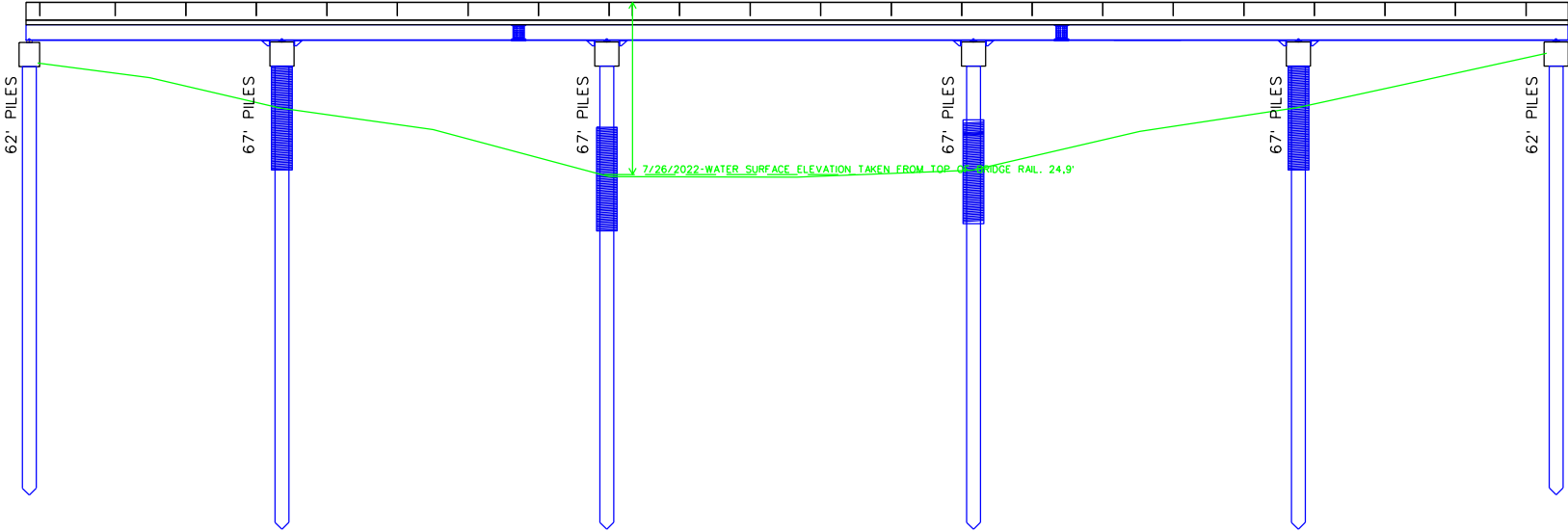
BENT 1 BENT 2 BENT 3 BENT 4 BENT 5 BENT 6

07/26/2022 8.9' 11.3' 15.3' 19.2' 23.7' 25.7' 21.0' 18.2' 14.8' 11.0' 8.3'

READINGS TAKEN FROM TOP OF PARAPET WALL, RIGHT SIDE.

*Not to Scale		
Bridge No. 07183	Dist. 1	Co. CRITTENDEN/18
Logmile 14.13	Rt. 147	Sect./Zone - 03/00
Date Drawn 07/23/2018 Date Redrawn 07/26/2022 By DMF		

BRIDGE #07183
CHANNEL PROFILE
LEFT SIDE



07/26/2022 BENT 1 8.8' 10.9' BENT 2 15.3' 18.4' BENT 3 25.2' 25.3' BENT 4 24.3' 18.7' BENT 5 15.2' 11.1' BENT 6 7.3'

READINGS TAKEN FROM TOP OF PARAPET WALL, LEFT SIDE.

*Not to Scale		
Bridge No. 07183	Dist. 1	Co. CRITTENDEN/18
Logmile 14.13	Rt. 147	Sect./Zone - 03/00
Date Drawn 07/23/2018 Date Redrawn 07/26/2022 By DMF		