



Latitude:33.98837, Longitude:-92.88190

Route:7 Section:05 Log:13.59

Arnold Road ID:20x7x5xA, Arnold Log mile:13.564

District 07, 39 - Dallas 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





33.98837, -92.88190



**Asset #06164**(Routine, Underwater type 2)

**SH 7 S-5 LM 13.59 over BEACH BRANCH**

**Location: 3.3 MI SO JCT SH 8**

**Team Lead: John Parks, Inspection Date: 08/10/2022**

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06164
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	39 - Dallas County
(4) Place Code	0
(6) Features Intersected	BEACH BRANCH
(7) Facility Carried	SH 7 S-5 LM 13.59
(9) Location	3.3 MI SO JCT SH 8
(11) Mile Point	13.59 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.98837
(17) Longitude	-92.8819
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(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	1986
(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	1004
(30) Year of ADT	2018
(109) Truck ADT	12 %
(19) Bypass, Detour Length	31 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	105 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	29.9 ft
(52) Deck Width Out to Out	32.8 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	29.9 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	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	8
(61) Channel & Channel Protection	8
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	9
(36A) Bridge Railings	1 - Inspected feature meets current
(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	1451
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/10/2022		
(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 **#06164**(Routine, Underwater type 2)

**District:** 07, **County:** 39 - Dallas County

**Team Lead:** John Parks, **Inspection Date:** 08/10/2022

**General Observation**

08/07/2018 JPR -- This structure is logged from South to North.

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

Exposed aggregates joints leaking

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**SH 7 S-5 LM 13.59 over BEACH BRANCH**

**Location: 3.3 MI SO JCT SH 8**

**Team Lead:** John Parks, **Inspection Date:** 08/10/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3444	815	2629	0	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1130	Cracking (RC and Other)	SF	105	0	105	0	0
1190	Abrasion/Wear (PSC/RC)	SF	2520	0	2520	0	0
(38) Exposed aggregates joints leaking							
215	Reinforced Concrete Abutment	LF	82	82	0	0	0
(215) Roadway settlement abutment 1							
227	Reinforced Concrete Pile	EA	12	0	12	0	0
1190	Abrasion/Wear (PSC/RC)	EA	12	0	12	0	0
234	Reinforced Concrete Pier Cap	LF	66	65	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
301	Pourable Joint Seal	LF	66	10	0	56	0
2320	Seal Adhesion	LF	42	0	0	42	0
2350	Debris Impaction	LF	14	0	0	14	0
(301) Leaking							
331	Reinforced Concrete Bridge Railing	LF	210	210	0	0	0



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## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
38	RC Slab	SF	3444	815	2629	0	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1130	Cracking (RC and Other)	SF	105	0	105	0	0
1190	Abrasion/Wear (PSC/RC)	SF	2520	0	2520	0	0
(38) Exposed aggregates joints leaking							

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

Comment: Exposed aggregates joints leaking



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## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





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## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	82	82	0	0	0
(215) Roadway settlement abutment 1							
227	Reinforced Concrete Pile	EA	12	0	12	0	0
1190	Abrasion/Wear (PSC/RC)	EA	12	0	12	0	0
234	Reinforced Concrete Pier Cap	LF	66	65	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0



Elevation



Elevation



Deck overview



Underview





Span 2 & 3, right side at Bt. 3, spalls in the end of the slab.



Bt. 2, typical substructure.



Upstream



Downstream





Approach



Name plate



**Asset #06164**(Routine, Underwater type 2)

**SH 7 S-5 LM 13.59 over BEACH BRANCH**

**Location: 3.3 MI SO JCT SH 8**

**Team Lead:** John Parks, **Inspection Date:** 08/10/2022

#### Maintenance Needs

**Date Reported:** 08/11/2022

**Priority:** D- Routine

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

**Status:** Open

**Component:** Element

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#### Deficiency Description

Joint seal have lost adhesion allow debris impaction & allowing leakage on to the caps.

#### Remarks

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Joint seal have lost adhesion allow debris impaction & allowing leakage on to the caps.



**Maintenance Needs**

**Date Reported:** 08/11/2022

**Priority:** D- Routine

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

**Status:** Open

**Component:** Miscellaneous

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**Deficiency Description**

Trees growing next to the bridge.

**Remarks**

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Trees growing next to the bridge.



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**SH 7 S-5 LM 13.59 over BEACH BRANCH**

**Location: 3.3 MI SO JCT SH 8**

**Team Lead:** John Parks, **Inspection Date:** 08/10/2022

## **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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**SH 7 S-5 LM 13.59 over BEACH BRANCH**

**Location: 3.3 MI SO JCT SH 8**

**Team Lead:** John Parks, **Inspection Date:** 08/10/2022

**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**



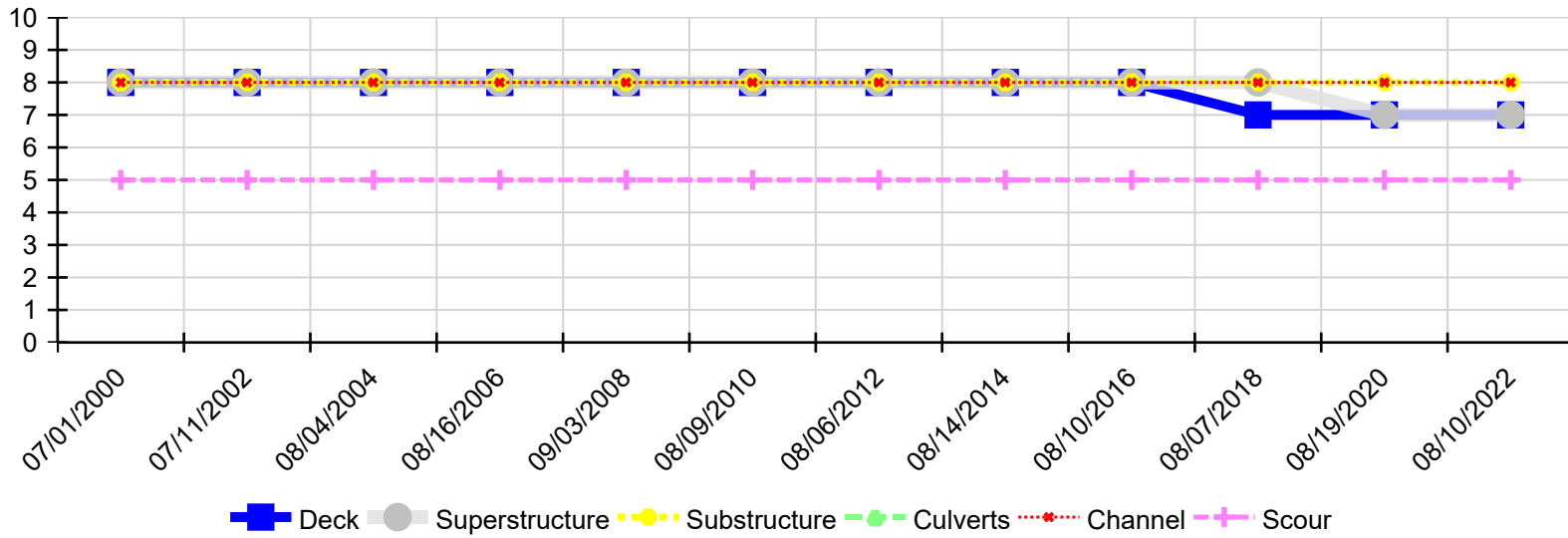
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SH 7 S-5 LM 13.59 over BEACH BRANCH

Location: 3.3 MI SO JCT SH 8

Team Lead: John Parks, Inspection Date: 08/10/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/10/2022	7	7	8	N	8	5
08/19/2020	7	7	8	N	8	5
08/07/2018	7	8	8	N	8	5
08/10/2016	8	8	8	N	8	5
08/14/2014	8	8	8	N	8	5
08/06/2012	8	8	8	N	8	5
08/09/2010	8	8	8	N	8	5
09/03/2008	8	8	8	N	8	5
08/16/2006	8	8	8	N	8	5
08/04/2004	8	8	8	N	8	5
07/11/2002	8	8	8	N	8	5
07/01/2000	8	8	8	N	8	5