



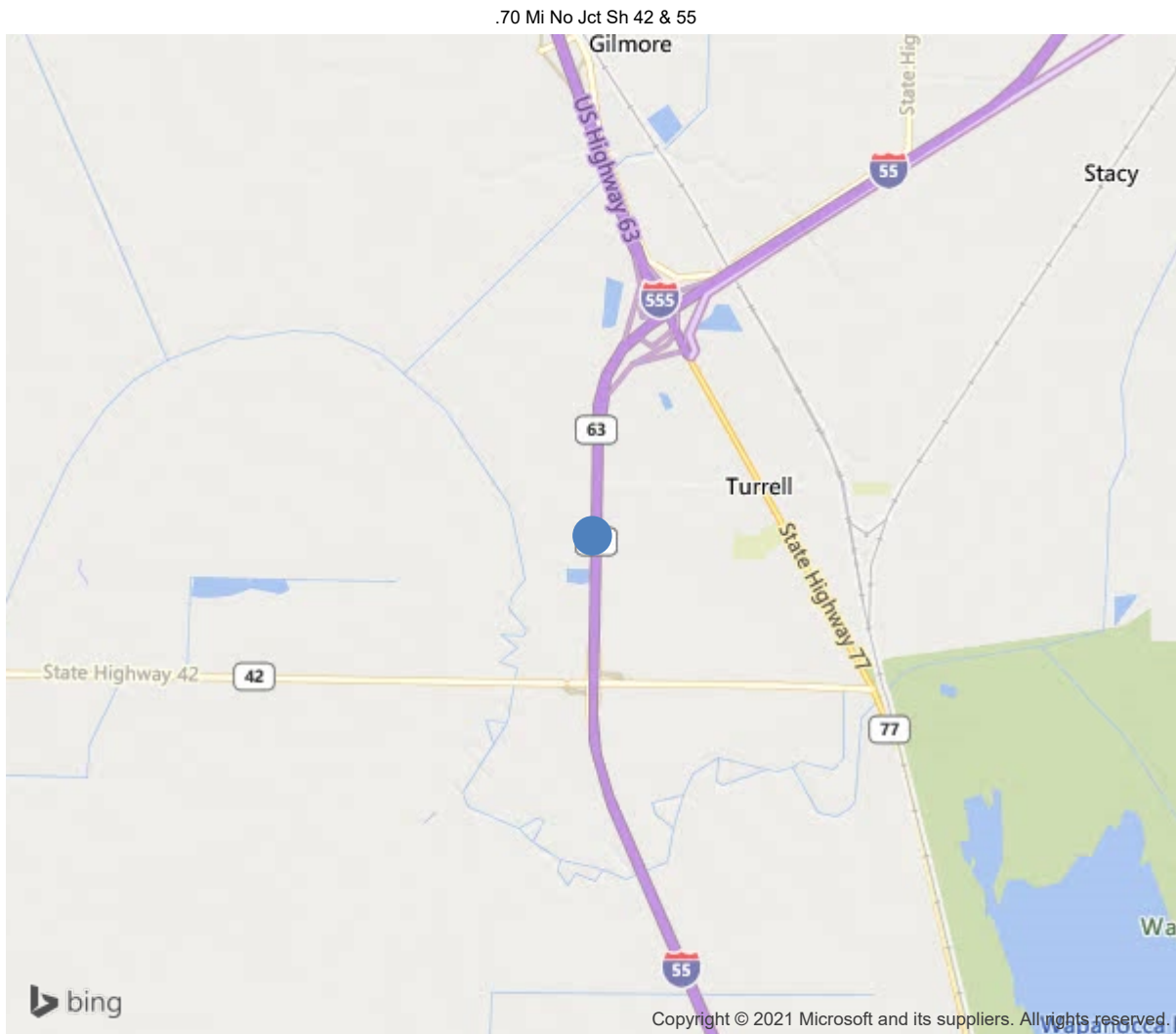
Latitude:35.37599, Longitude:-90.27963

Route:55 Section:11 Log:22.26

Arnold Road ID:18x55x11xB, Arnold Log mile:50.008

District 01, Crittenden County

Owner: 1-State Highway Agency



35.37599, -90.27963



**Bridge #A2810(Routine, Underwater type 2)**

**I-55SO/Sec11/22.26 over Dry Bayou**

**Location: .70 Mi No Jct Sh 42 & 55**

**Team Lead: Drew Melton Inspection Date: April 08, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A2810
(5) Inventory Route	55
(2) Highway Agency District	01
(3) County Code	35-Crittenden County, Arkansas
(4) Place Code	0
(6) Features Intersected	Dry Bayou
(7) Facility Carried	I-55SO/Sec11/22.26
(9) Location	.70 Mi No Jct Sh 42 & 55
(11) Mile Point	22.26 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055110
(16) Latitude	35.375992
(17) Longitude	-90.279633
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	21
Material	2-Concrete continuous
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	5-Epoxy Overlay
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1956
(106) Year Reconstructed	1975
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	2956
(30) Year of ADT	2011
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	29 ft
(49) Structure Length	81 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	39 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	1-Rural 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	7
(60) Substructure	6
(61) Channel & Channel Protection	5
(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	51
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	31
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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	17304
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	04/2020
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	Yes
C: Other Special Inspection	No



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Team Lead: Drew Melton, Inspection Date: April 08, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3402	1902	0	1500	0
1120	Efflorescence/Rust Staining	SF	1500	0	0	1500	0
510	Wearing Surfaces	SF	3159	3159	0	0	0
(38)	Soffit all spans have longitudinal cracks on original construction and several transverse cracks in widened sections some with efflorescence. Deck has had achm removed and 1/2 thin bonded epoxy overlay since 2014 inspection.						
215	Reinforced Concrete Abutment	LF	99	67	0	32	0
1080	Delamination/Spall/Patched Area	LF	12	0	0	12	0
6000	Scour	LF	20	0	0	20	0
(215)	Abutment #1 cap left end has 2' spall with no rebar exposed. Abutment #2 cap top edge left half has several shallow spalls equals ten feet. Abutment #1 slope is eroded to vertical face eight feet from cap in center and to cap on each side.						
227	Reinforced Concrete Pile	EA	15	15	0	0	0
234	Reinforced Concrete Pier Cap	LF	85	83	0	2	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	1	0	0	1	0
(234)	Bent #2 cap bottom chord between pile #3,4 has a one foot delaminated area. Bent #3 ahead face has one foot spall with exposed rebar above pile #5 with 10% section loss.						
301	Pourable Joint Seal	LF	84	0	0	84	0
2350	Debris Impaction	LF	84	0	0	84	0
(301)	Joint covered with epoxy						
330	Metal Bridge Railing	LF	162	162	0	0	0
331	Reinforced Concrete Bridge Railing	LF	162	162	0	0	0



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**I-55SO/Sec11/22.26 over Dry Bayou**

**Location: .70 Mi No Jct Sh 42 & 55**

**Team Lead:** Drew Melton **Inspection Date:** April 08, 2020



## Maintenance Needs

**Date Reported:** 04/10/2012  
**Priority:** B - Pressing; 6 month completion goal  
**Type of Work:** Repair  
**Status:** Open  
**Component:** Channel

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## Deficiency Description

Abutment #1 slope is eroded to vertical face eight feet from cap in center and to cap on each side.

## Remarks

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Abutment #1 slope

**Date Reported:** 04/08/2020

**Priority:** D- Routine

**Type of Work:** Repair

**Status:** Open

**Component:** Channel

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**Deficiency Description**

Abutment #2 slope is eroded between pile #2,3 and pile #5,6 with depths up to two feet extending down slope.

**Remarks**

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Abutment #2 slope erosion



**Bridge #A2810**(Routine, Underwater type 2)

**I-55SO/Sec11/22.26 over Dry Bayou**

**Location: .70 Mi No Jct Sh 42 & 55**

**Team Lead:** Drew Melton **Inspection Date:** April 08, 2020

### **Inspection Comments**

Drawing numbers: 19217,19219-20,19223-25, widened 2810AR,Job 11864

Abutment #1 slope is eroded to vertical face eight feet from cap in center and to cap on each side.

Abutment #2 slope is eroded between pile #2,3 and pile #5,6 with depths up to two feet extending down slope.

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### **Deck Notes**

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### **Superstructure Notes**

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### **Substructure Notes**

04-08-2020 lowered substructure rom 7 to 6 due to erosion.