



Latitude:35.42310, Longitude:-90.23178

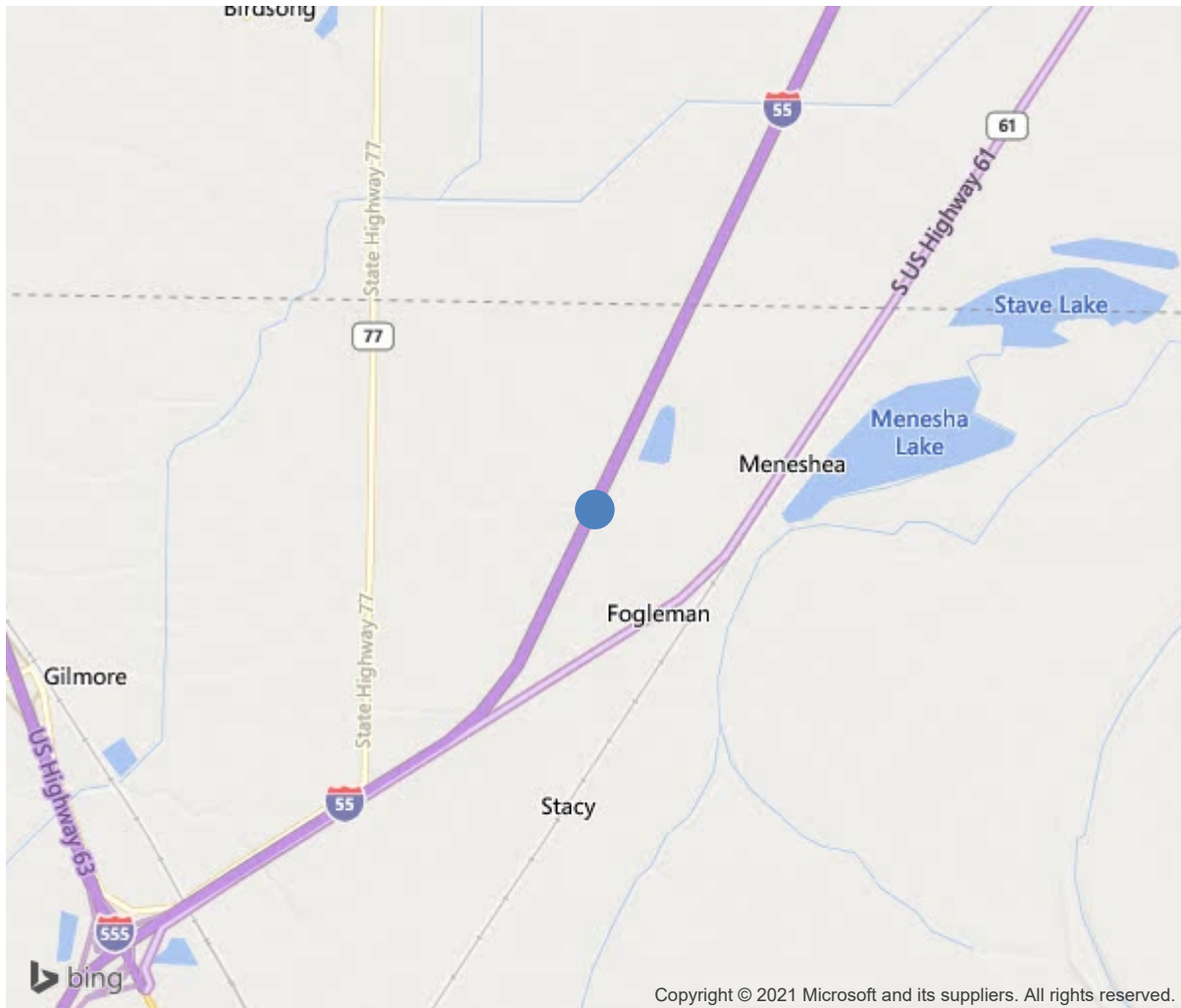
Route:28 Section:00 Log:26.74

Arnold Road ID:18xEGILMORERDx0xA, Arnold Log mile:2.619

District 01, Crittenden County

Owner: 1-State Highway Agency

1.08 Mi S Of Miss Co Line



35.42310, -90.23178



Bridge #03211(Routine)

Gillmore/Z-D CR28 over I-55/Sec-11/L-26.74

Location: 1.08 Mi S Of Miss Co Line

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

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03211
(5) Inventory Route	28
(2) Highway Agency District	01
(3) County Code	35-Crittenden County, Arkansas
(4) Place Code	0
(6) Features Intersected	I-55/Sec-11/L-26.74
(7) Facility Carried	Gillmore/Z-D CR28
(9) Location	1.08 Mi S Of Miss Co Line
(11) Mile Point	26.74 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.4231
(17) Longitude	-90.23178
(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	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 placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1963
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	229
(30) Year of ADT	1987
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	72 ft
(49) Structure Length	242.8 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	25.3 ft
(32) Approach Roadway Width (W/Shoulders)	20 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	20 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	17 ft
Ref:	
(55) Min Lat Underclear RT	11.5 ft
Ref:	
(56) Min Lat Underclear LT	7.9 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(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	0
(26) Functional Class	7-Rural Major Collector
(100) Defense Highway	0-The inventory route is not a S
(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 part of
(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	6
(59) Superstructure	7
(60) Substructure	8
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	55
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	33
(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	4
(69) Clearances, Vertical/Horizontal	5
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	7
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	N-Bridge not over waterway.
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	283
(115) Year of Future ADT	2007
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0



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Location: 1.08 Mi S Of Miss Co Line

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

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	5955	0	3455	2500	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	250	0	250	0	0
1130	Cracking (RC and Other)	SF	5000	0	2500	2500	0
1190	Abrasion/Wear (PSC/RC)	SF	704	0	704	0	0
(12)	Deck has area of light abrasion full length. Deck has open transverse cracks spaced one and a half feet apart. Soffit has hairline transverse cracks spaced one and a half feet apart a few starting to have faint efflorescence. Span #2 deck right lane three quarter span has eight inch shallow spall no exposed rebar.						
107	Steel Open Girder/Beam	LF	956	0	956	0	0
1000	Corrosion	LF	952	0	952	0	0
1900	Distortion	LF	4	0	4	0	0
515	Steel Protective Coating	SF	8375	0	1774	3879	2722
3440	Effectiveness (Steel Protective Coatings)	SF	4827	0	0	2105	2722
3420	Peeling/Bubbling/Cracking	SF	3548	0	1774	1774	0
(107)	Both outside girders have surface rust entire length 35% bare steel. Interior girders have surface rust full length with 15% bare steel. Bottom of bottom flange of all girders have surface rust full length. 50% of paint has areas of light peeling. Span # 2 girder # 1 has minor traffic damage between 1st & 2nd diaphragm on bottom chord.						
205	Reinforced Concrete Column	EA	6	5	1	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
(205)	Bent #4 left column back face has eight inch spall with exposed rebar no section loss.						
215	Reinforced Concrete Abutment	LF	54	40	14	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	13	0	13	0	0
(215)	Abutment #1 has a one foot spall with rebar exposed between girder 1,2 no section loss. Abutment caps have cs2 vertical cracks spaced four feet apart.						
234	Reinforced Concrete Pier Cap	LF	81	81	0	0	0
305	Assembly Joint without Seal	LF	125	0	125	0	0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2370	Metal Deterioration or Damage	LF	125	0	125	0	0
(305)	Joint steel has surface rust with no paint left.						
311	Movable Bearing	EA	16	0	16	0	0
1000	Corrosion	EA	15	0	15	0	0
1020	Connection	EA	1	0	1	0	0
515	Steel Protective Coating	SF	48	0	0	48	0
3440	Effectiveness (Steel Protective Coatings)	SF	48	0	0	48	0
(311)	Bearings have minor surface rust with no section loss at this time. Bent #4 span #4 girder #1 right bearing bolt is backed out.						
313	Fixed Bearing	EA	16	0	8	8	0
1000	Corrosion	EA	16	0	8	8	0
515	Steel Protective Coating	SF	48	0	0	48	0
3440	Effectiveness (Steel Protective Coatings)	SF	48	0	0	48	0
(313)	Bearings have minor surface rust with no section loss at this time. Abutment bearing have corrosion with laminations with up to 5% section loss.						
330	Metal Bridge Railing	LF	486	0	479	7	0
1020	Connection	LF	8	0	1	7	0
7000	Damage	LF	478	0	478	0	0
(330)	Left & right rails have minor dents & dings & scrapes full length. Span #1 left metal first post is cracked at base. Span #1 right metal first post has one missing connection nut. Span #1 right metal second rail post is broken at base. Span #3 left bridge rail ninth metal post is cracked at base. Span #3 right bridge rail metal post #3,4,5 are cracked at base. Span #4 left side third metal post is cracked at base.						
331	Reinforced Concrete Bridge Railing	LF	486	486	0	0	0



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Location: 1.08 Mi S Of Miss Co Line

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

Maintenance Needs

Date Reported: 07/02/2014
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Approach

Deficiency Description

Bent #3 right side pier protection is broken/destroyed left side has cs3 crack.

Remarks



Bent #3 right side pier protection is broken/destroyed left side has cs3 crack.

Date Reported: 07/12/2016
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Deck

Deficiency Description

Deck has open transverse cracks spaced one and a half feet apart.
Span #2 deck right lane three quarter span has eight inch shallow spall no exposed rebar.
07/08/2020 Deck cracks are growing bigger and more of them.

Remarks



Typical deck cracks.



Typical deck



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Location: 1.08 Mi S Of Miss Co Line

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



Span #2 deck right lane three quarter span has
eight inch shallow spall no exposed rebar.

Date Reported: 07/19/2018
Priority: C - Important
Type of Work: Repair
Status: Open
Component: 330 - Metal Bridge Railing

Deficiency Description

Span #1 left metal first post is cracked at base.
Span #1 right metal first post has one missing connection nut.
Span #1 right metal second rail post is broken at base.
Span #3 left bridge rail ninth metal post is cracked at base.
Span #3 right bridge rail metal post #3,4,5 are cracked at base.
Span #4 left side third metal post is cracked at base.
07/08/2020 Added several new locations of broken posts.

Remarks



Span #4 left side third metal post is cracked at base.



Span #1 left metal first post is cracked at base.



Span #1 right metal second rail post is broken at base.



Span #3 right bridge rail metal post #3,4,5 are cracked at base.



Span #3 left bridge rail ninth metal post is cracked at base.

Date Reported: 07/19/2018
Priority: D- Routine
Type of Work: Clean
Status: Monitor
Component: Approach

Deficiency Description

Vegetation is growing through cracks and onto slope pavement both abutments.

Remarks



Abutment #2 slope



Abutment #1 slope

Date Reported: 07/08/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: Approach

Deficiency Description

Abutment #2 approach rails are leaning out.

Remarks



Abutment #2 left approach rail is leaning out.



Abutment #2 right approach rail is leaning out.

Date Reported: 07/08/2020
Priority: D- Routine
Type of Work: Clean
Status: Open
Component: 107 - Steel Open Girder/Beam

Deficiency Description

Both outside girders have surface rust entire length 35% bare steel.
Interior girders have surface rust full length with 15% bare steel.
Bottom of bottom flange of all girders have surface rust full length.
50% of paint has areas of light peeling.

Remarks



Typical paint interior girders.



Typical peeling paint on girders.



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Typical paint condition outside girders.



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Location: 1.08 Mi S Of Miss Co Line

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

Inspection Comments

Drawing numbers: 10139-10147

Slope paving has vegetation growing out of cracks.

Abutment #2 approach rails are leaning out.

Bent #3 right side pier protection is broken/destroyed left side has cs3 crack.

Deck Notes

07/08/2020 lowered deck from 7 to 6 due to the number of cs2,cs3 deck cracks.