



Latitude:35.05677, Longitude:-90.68947

Route:38 Section:05 Log:0.21

Arnold Road ID:68x38x5xA, Arnold Log mile:0.188

District 01, 123 - St. Francis County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

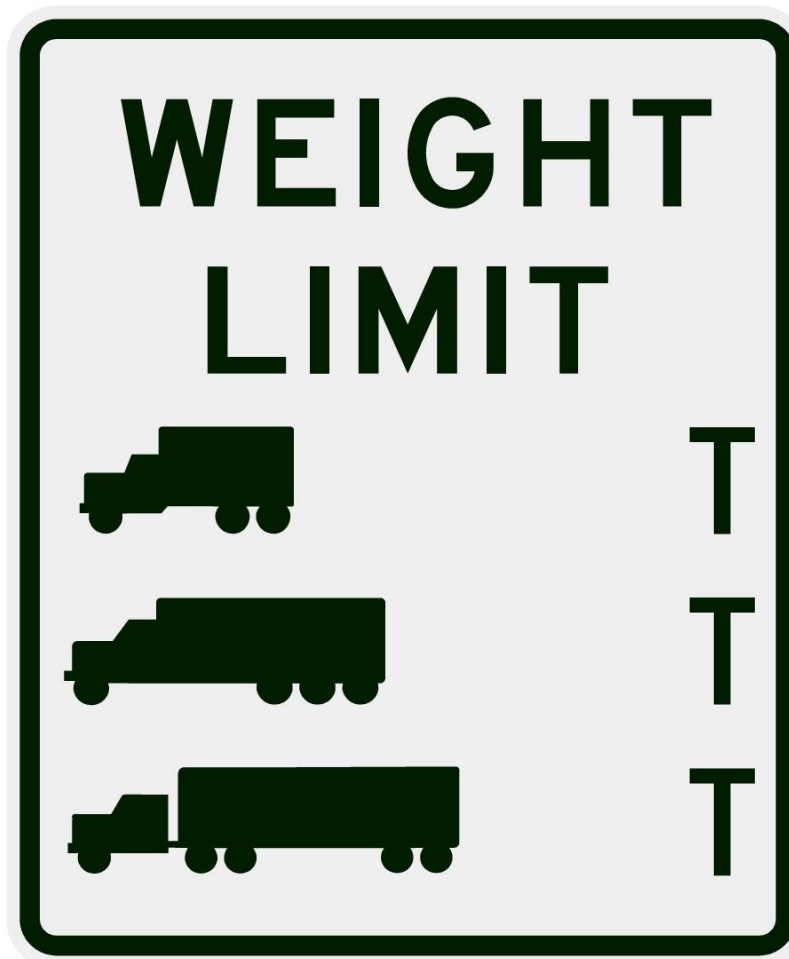
Bridge Posting Information

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

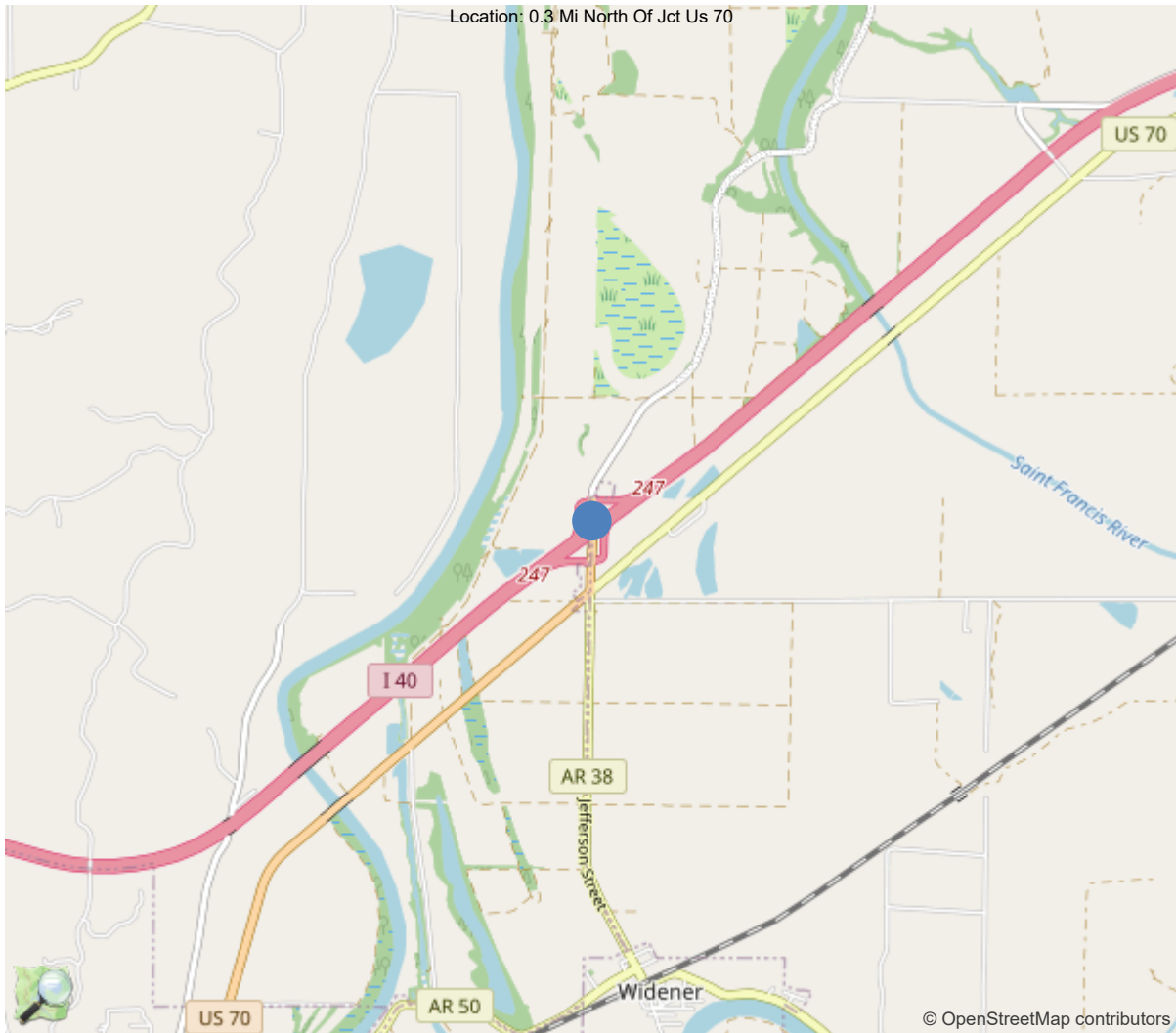
70 - Bridge Posting: 5 - Equal to or above legal loads

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



35.05677, -90.68947

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	07233
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	123 - St. Francis County
(4) Place Code	0
(6) Features Intersected	I-40/Sec-51/L-247.05
(7) Facility Carried	Sh-38/Sec-5/L-0.21
(9) Location	0.3 Mi North Of Jct Us 70
(11) Mile Point	0.21 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.05677
(17) Longitude	-90.689468
(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	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 pl
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2014
(106) Year Reconstructed	0
(42) Type of Service	61
On	6 - Overpass structure at an interchange or s
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	1300
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	108 ft
(49) Structure Length	360 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	30 ft
(52) Deck Width Out to Out	33.2 ft
(32) Approach Roadway Width (W/Shoulders)	30 ft
(33) Bridge Median	0 - No median
(34) Skew	37 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.9 ft
(47) Inventory Route Total Horiz Clear	30 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.12 ft
Ref:	
(55) Min Lat Underclear RT	28.3 ft
Ref:	
(56) Min Lat Underclear LT	8.1 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	8 - Rural Minor Collector
(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	4 - Historical significance is
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	9
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(63) Operating Rating Method	3
(64) Operating Rating	
Type	3 - Load and Resistance Factor(LRFR)
Rating	60
(65) Inventory Rating Method	3 - Load and Resistance Factor
(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	5
(69) Clearances, Vertical/Horizontal	5
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	7
(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	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	1300
(115) Year of Future ADT	2033

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.			

Team Lead: Drew Melton, Inspection Date: 07/26/2022

IDENTIFICATION	
B.ID.01 Bridge Number	07233
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	123 - St. Francis County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	01 - District 01
B.L.05 Latitude	35.05677
B.L.06 Longitude	-90.689468
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	
B.CL.02 Maint. Responsibility	
B.CL.03 Federal or Tribal Land Access	
B.CL.04 Historic Significance	
B.CL.05 Toll	
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	
B.G.02 Total Bridge Length	
B.G.03 Max Span Length	
B.G.04 Min Span Length	
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	
B.G.07 Left Curb or Sidewalk Width	
B.G.08 Right Curb or Sidewalk Width	
B.G.09 Approach Roadway Width	

B.G.10 Bridge Median	
B.G.11 Skew	
B.G.12 Curved Bridge	
B.G.13 Max Bridge Height	
B.G.14 Sidehill Bridge	
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	

LOADS AND LOAD RATING	
B.LR.01 Design Load	
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	
B.LR.05 Inventory Load Rating Factor	
B.LR.06 Operating Load Rating Factor	
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	
B.IR.04 Complex Feature	

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	
B.C.02 Superstructure Condition	
B.C.03 Substructure Condition	
B.C.04 Culvert Condition	
B.C.05 Bridge Railing Condition	
B.C.06 Bridge Railing Transitions Condition	
B.C.07 Bridge Bearings Cond.	
B.C.08 Bridge Joints Condition	
B.C.09 Channel Condition Rating	
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	
B.C.12 Bridge Condition Classification	
B.C.13 Lowest Condition Rating	
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	



Team Lead: Drew Melton, Inspection Date: 07/26/2022

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value



Asset #07233(Routine)

Sh-38/Sec-5/L-0.21 over I-40/Sec-51/L-247.05

Location: 0.3 Mi North Of Jct Us 70

Team Lead: Drew Melton Inspection Date: 07/26/2022

General Observation

Drawing numbers: 52474,52486.

Abutment #2 left approach rail has minor collision damage.

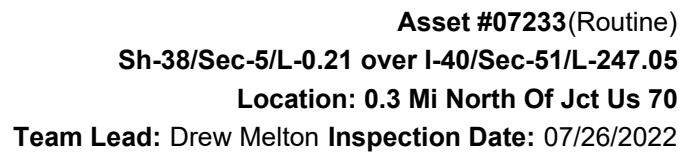
Abutment #1 right slope pavement near top is cracking and has settled 1".

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

08/14/2018 lowered deck from 8 to 7 due to cracks with efflorescence in soffit.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

08/14/2018 lowered superstructure from 9 to 7 due to some surface rust on girders at bents



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	11938	11648	290	0	0
1120	Efflorescence/Rust Staining	SF	40	0	40	0	0
1130	Cracking (RC and Other)	SF	250	0	250	0	0
(12) Each span has approximately 20 transverse cracks on overhangs each side some with light efflorescence. Each deck span has 2 to 3 transverse and 2 to 3 longitudinal cracks.							
107	Steel Open Girder/Beam	LF	1440	1340	100	0	0
1000	Corrosion	LF	100	0	100	0	0
515	Steel Protective Coating	SF	14688	14498	90	100	0
3420	Peeling/Bubbling/Cracking	LF	90	0	90	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	100	0	0	100	0
(107) Span #1 girder #1,2, 4 span #2 girder #1 bottom flange has areas of paint peeling. Bottom flanges all girders all spans have areas of surface rust at bents							
205	Reinforced Concrete Column	EA	6	6	0	0	0
215	Reinforced Concrete Abutment	LF	131	130	0	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
(215) Abutment #2 cap right side has a 1' spall no exposed rebar.							
234	Reinforced Concrete Pier Cap	LF	114	114	0	0	0
301	Pourable Joint Seal	LF	81	81	0	0	0
310	Elastomeric Bearing	EA	20	20	0	0	0
321	Reinforced Concrete Approach Slab	SF	2100	1950	150	0	0
1130	Cracking (RC and Other)	SF	150	0	150	0	0
(321) Approach slabs have a few open cracks. Abutment #1 has a 10' x 15' area of map cracking.							
331	Reinforced Concrete Bridge Railing	LF	725	705	20	0	0
1120	Efflorescence/Rust Staining	LF	20	0	20	0	0
(331) Bridge rails have a few vertical cracks some with light efflorescence.							



07/26/2022

Side view-elevation

Maintenance Needs

Date Reported: 07/24/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Approach slabs have a few open cracks.
Abutment #1 has a 10' x 15' area of map cracking.

Remarks



Abutment #1 approach slab map cracking.

Maintenance Needs

Date Reported: 07/24/2020

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Light rust beginning to form on girders at abutments and over intermediate bents.
Paint beginning to peel on bottom flange of several girders in spans #1 and 2.

Remarks



07/23/2020

Corrosion beginning at abutment #1 girder #4.



07/23/2020

Typical light rust on girders at bents.



07/23/2020

Typical peeling paint, typical of span #1 girders #1 and 4.

Maintenance Needs

Date Reported: 07/27/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

Each deck span has 2 to 3 transverse and 2 to 3 longitudinal cracks.

Remarks



Typical deck crack

Maintenance Needs

Date Reported: 07/26/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Miscellaneous

Deficiency Description

Abutment #1 right slope pavement near top is cracking and has settled 1".

Remarks



Abutment #1 right slope pavement near top is cracking and has settled 1".

Maintenance Needs

Date Reported: 07/26/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Approach

Deficiency Description

Abutment #2 left approach rail has minor collision damage.

Remarks



Abutment #2 left approach rail has minor collision damage.



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



Asset #07233(Routine)

Sh-38/Sec-5/L-0.21 over I-40/Sec-51/L-247.05

Location: 0.3 Mi North Of Jct Us 70

Team Lead: Drew Melton 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

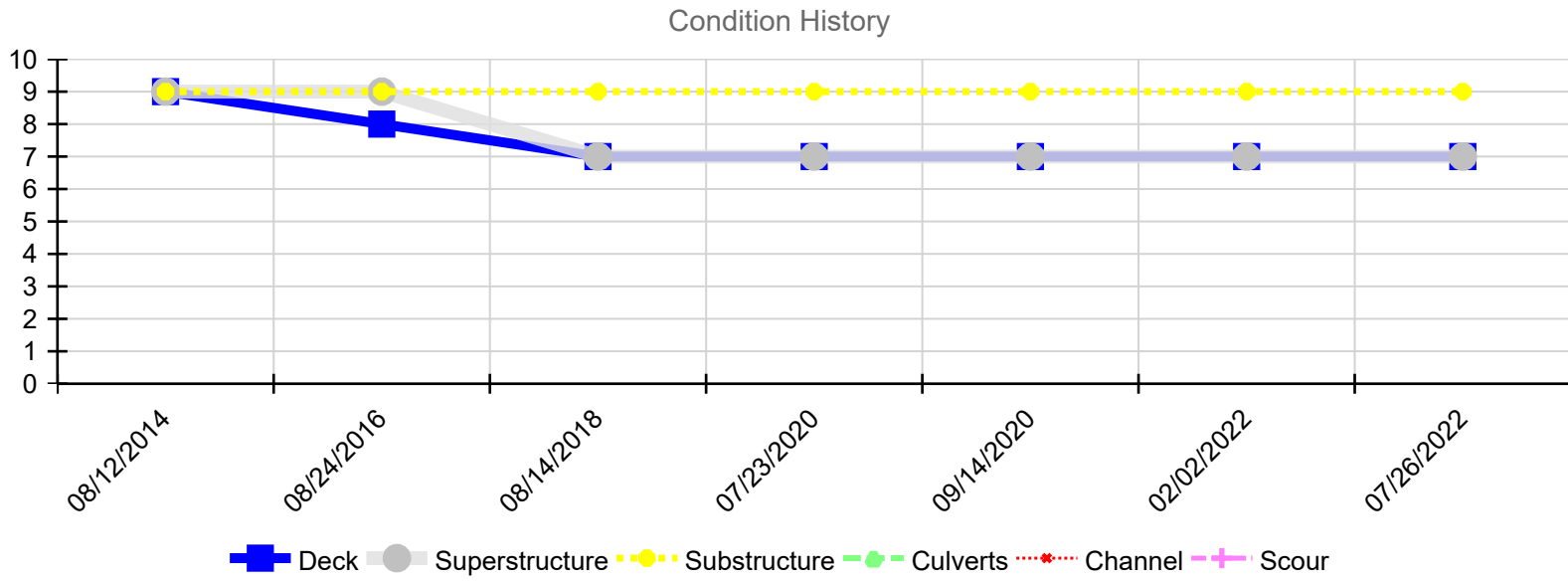
A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested

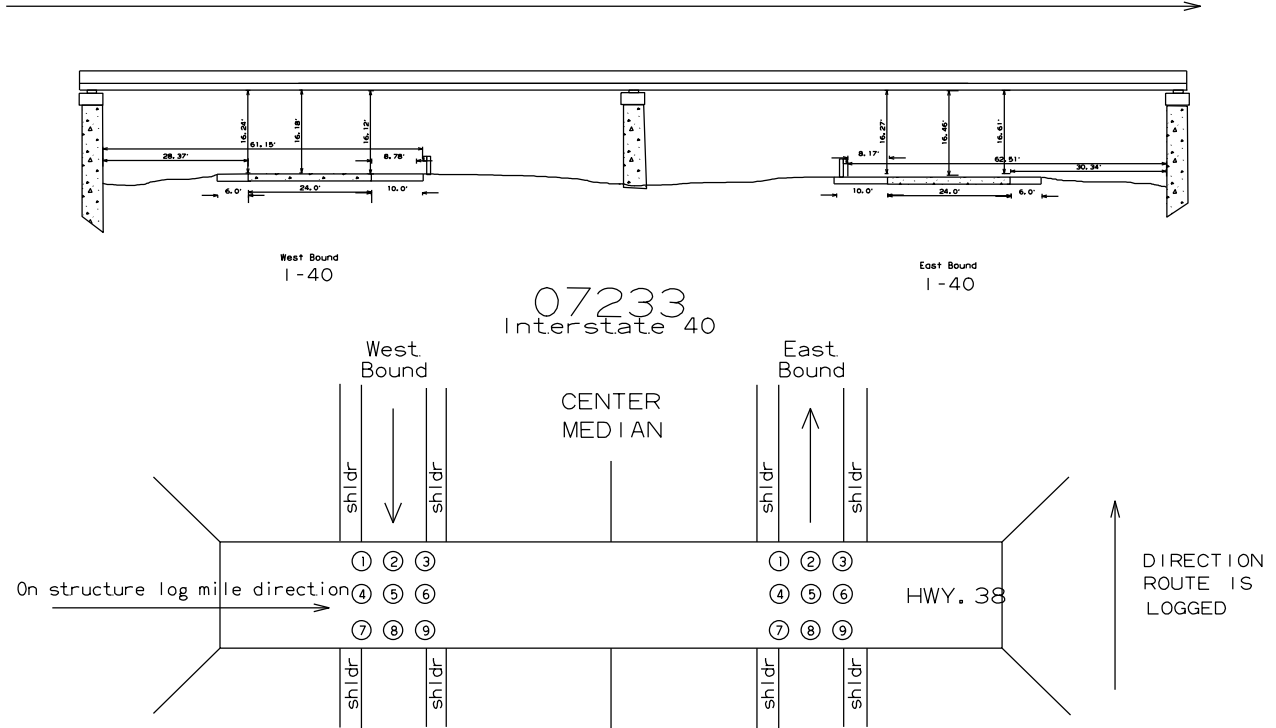


Asset #07233(Routine)
Sh-38/Sec-5/L-0.21 over I-40/Sec-51/L-247.05
Location: 0.3 Mi North Of Jct Us 70
Team Lead: Drew Melton Inspection Date: 07/26/2022



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/26/2022	7	7	9	N	N	N
02/02/2022	7	7	9	N	N	N
09/14/2020	7	7	9	N	N	N
07/23/2020	7	7	9	N	N	N
08/14/2018	7	7	9	N	N	N
08/24/2016	8	9	9	N	N	N
08/12/2014	9	9	9	N	N	N

BRIDGE #07233
ROUTE ON STRUCTURE HWY. 38



ROADWAY VERTICAL CLEARANCES			ROADWAY HORIZONTAL CLEARANCES		MAIN LANES WIDTH	TOTAL WIDTH
1	2	3	LEFT	RIGHT		
16.24'	16.18'	16.12'	8.78'	28.37'	24.0'	61.15'
4	5	6				
16.58'	16.48'	16.40'				
7	8	9				
16.51'	16.40'	16.29'				
West. Bound						

ROADWAY VERTICAL CLEARANCES			ROADWAY HORIZONTAL CLEARANCES		MAIN LANES WIDTH	TOTAL WIDTH
1	2	3	LEFT	RIGHT		
16.30'	16.53'	16.73'	8.17'	30.34'	24.0'	62.51'
4	5	6				
16.44'	16.66'	16.83'				
7	8	9				
16.27'	16.46'	16.61'				
East. Bound						

ROUTE UNDER STRUCTURE

DIST.	CO.	RT.	SEC.	LOG MILE	BRIDGE NUMBER	INVENTORY DIRECTION
1	68	40	51	239.82	07233	W To E

ROUTE ON STRUCTURE

*Not to Scale

Bridge No. 07233	Dist. 1	Co. St. Francis - 68
Logmile 0.21	Rt. 38	Sect./Zone - 05/0
Date Drawn 08/25/2016	Date Updated 07/26/2022	