

INSPECTION UNDERWATER T1 REPORT

Structure # 03719
W MISSOULA - BITTERROOT RIVER 010

Bridge Inventory Information

Bridge Inspection Date: 08-08-2017



General Location Data	
(6A) Feature Intersected	BITTERROOT RIVER 010
(9) Location	W MISSOULA
(22) Owner	02 County Hwy Agency
(8) NBI Structure Number	L32101000+01001
(SR) Sufficiency Rating	30.073516034629964281 4811670759229380203
(MDT076) Deck Condition	Fair-1
(MDT077) Structure Condition	Fair
(MDT058) Structurally Deficient Functionally Obsolete	2 Functionally Obsolete

A- Location Data	
(2) MDT Inspection District	01 MISSOULA
(3) County Code	063 MISSOULA
(4) Place Code	00000 Rural Area
(7) Facility Carried by Structure	NORTH AVE W
(MDT020) MDT Maintenance Division	11 MISSOULA
(21) Maintenance Responsibility	02 County Hwy Agency
(MDT027) On Off System	0 Off System
(MDT078) MDT Maintenance Section	none Not a State Maintained Bridge
(112) Nbis Bridge Length	Y Long Enough
(MDT114) MPO	Missoula MPO Planning
(MDT115) MDT Administrative District	1 Missoula
(MDT116) MDT Financial District	1 Missoula
(MDT117) Border Bridge - Neighboring County Code	000 NONE
(MDT120) Environment	

B- Construction Data	
(MDT017) MDT Original Construction Project Number	-1
(MDT018) MDT Original Construction Station	+0
(MDT019) MDT Original Drawing Number	RECORDSE
(MDT021) MDT UPN	
(27) Year Built	1935



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(MDT097) Plans in SMS?	
(MDT098) Shop Drawings in SMS	
(MDT099) MDT Rehab Project Numbers	
(MDT100) MDT Rehab Stations	
(MDT101) MDT Rehab UPNs	
(MDT102) Years Rehabilitated	
(MDT103) MDT Rehab Drawing Numbers	
(106) Year Reconstructed	1964
(MDT119) Date Bridge Opened Re-Opened to Traffic	

C- Improvement Cost Data	
(75A) Type of Work Proposed	31 31 Repl-Load Capacity
(75B) Work to be Completed by	1 1 Contract
(76) Length Of Structure Improvement	377.2
(94) Bridge Improvement Cost	481000
(95) Roadway Improvement Cost	240500
(96) Total Project Cost	721500
(97) Year Of Improvement Cost Estimate	2009

D- Border State Data	
(98A-2) Border Bridge - Neighboring FHWA Region Code	
(98A-1) Border Bridge-Neighboring State Code	
(98B) Border Bridge-Percent Responsibility	
(99) Border Bridge Structure Number	

E- Historical Structure Data	
(37) Historical Significance	4 4 Hist sign not determin

F - Bridge Location	
(16) Latitude (DMS)	465111.28
(17) Longitude (DMS)	1140552.44

G - Span and Dimensional Data	
(33) Bridge Median	0 0 No median
(34) Skew	0
(35) Structure Flared	0 0 No flare
(42A) Type of Service on Bridge	1 Highway
(48) Length Of Maximum Span	180
(49) Structure Length	345.9

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(53) Min Vert Clear Over Bridge Roadway	14.16
(101) Parallel Structure Designation	N No parallel structure exists
(103) Temporary Structure Designation	
(116) Minimum Navigation Vertical Clearance	

H - Main Span	
(43A) Main Span Material	3 Steel
(43B) Main Span Design Type	10 Truss - Thru
(45) Number Of Spans In Main Unit	2

I - Approach Span	
(44A) Approach Span Material	5 Prestressed Concrete
(44B) Approach Span Design Type	04 Tee Beam
(46) Number Of Approach Spans	2

J - Deck Data	
(MDT006) Deck Area	5532
(50A) Left Curb Sidewalk Width	0
(50B) Right Curb Sidewalk Width	0
(52) Out-to-Out Deck Width	16
(MDT104) Bridge Deck Seal	
(MDT105) Polymer Overlay	
(MDT106) Mill and Overlay	
(MDT107) New Bridge Deck	
(107) Deck Structure Type	6 Corrugated Steel
(108A) Type of Wearing Surface	6 Bituminous
(108B) Type of Membrane	0 None
(108C) Deck Protection	0 None
(MDT108) Experimental Deck	

K - Under Bridge Service	
(28B) Lanes Under the Structure	0
(42B) Type of Service under	5 Waterway
(54A) Minimum Vertical Underclearance-Reference Feature	N Feature not a highway or railroad
(54B) Minimum Vertical Underclearance	0
(55A) Min Lateral Underclear On Right-Reference Feature	N Feature not a highway or railroad
(55B) Minimum Lateral Underclearance on Right	0
(56) Min Lateral Underclear On Left	0



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(69) Underclear, Vertical and Horizontal	N Not applicable
(111) Pier abutment Protection	
(113) Scour Critical Status	7 Countermeasures installed to correct a previously existing probm. with scour. No longer scour crtcl
(116) Minimum Navigation Vertical Clearance	

L - Load and Rating Data	
(MDT016) Load Rating Date	2012-01-20
(MDT022) Name of Load Rater	AKJ
(31) Design load - Live load for which the structure was designed	0 Unknown
(MDT036) SU4 Truck Inventory Rating	
(MDT037) SU4 Truck Operating Rating	
(MDT039) SU5 Truck Inventory Rating	
(MDT040) SU5 Truck Operating Rating	
(MDT042) SU6 Truck Inventory Rating	
(MDT043) SU6 Truck Operating Rating	
(MDT045) SU7 Truck Inventory Rating	
(MDT046) SU7 Truck Operating Rating	
(63) Method Used to Determine Operating Rating	1 Load Factor (LF)
(64) Operating Rating	23
(65) Method Used To Determine Inventory Rating	1 Load Factor (LF)
(66) Inventory Rating	14
(70) Legal Load Status	4 0.1-9.9% below

M - General Facility Data	
(5A) Inventory Route-Record Type	1 Route carried `on` the structure
(5B) Route Signing Prefix	4 County highway
(5C) Designated Level of Service	1 Mainline
(5D) Route Number	32101
(5E) Directional Suffix	3 South
(MDT009) Detour Speed	-1
(11) Accumulated Miles	0
(12) Base Highway Network	0 Not on Base Network
(13A) LRS Number	C032101N
(13B) Inventory Route, Subroute Number-Subroute Number	00
(19) Bypass Detour Length	11
(MDT030) Posted speed limit (MPH)	35



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(MDT075) Roadway System	
(MDT087) Decimal Mile Post	.099
(104) NHS Indicator	0 Not on the NHS
(MDT113) Mile Post	0+0.099

N - Base Network Data	
(28A) Lanes on the Structure	1
(28B) Lanes Under the Structure	0
(32) Approach Roadway Width	20
(51) Bridge Roadway Width Curb-To-Curb	14
(72) Approach Roadway Alignment	3 Intolerable - Correct

O - Other Network Data	
(20) Toll	3 On Free Road
(MDT048) School Bus Route	1 On School Bus Route
(100) STRAHNET Highway Designation	0 Not a STRAHNET route
(105) Federal Lands Highways	0 Not applicable
(110) National Truck Network	0 Not part of National Truck Network

P - Roadway Size and Clearance Data	
(MDT007) Departmental Route	L32101
(10) Minimum Vertical Clearance	14.16
(47) Total Horizontal Clearance	14
(102) Direction of Traffic	3 One lane bridge for 2-way traffic

Q - Traffic Data	
(26) Functional Classification	08 Rural, Minor Collector
(29) Average Daily Traffic	1946
(30) Year of Average Daily Traffic	2017
(MDT060) Traffic Volume Class	03
(109) Average Daily Truck Traffic (%)	
(114) Future Average Daily Traffic	2043
(115) Year Of Future Avg Daily Traffic	2037

General Bridge Notes

-1type 1\cross section done because (113 is a 7) no other reason- should consider having consultant complete in future when doing there climbing\inspection.



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Inspection Information

Responsible Person	Name	Signature
Inspector	Kurt Maart	
QC	James Shaw	

User	Begin	End	Comments
James Shaw	01-29-2019 12:00 pm	01-29-2019 02:30 pm	On-site. type 1\cross section done because (113 is a 7)
Kurt Maart	01-29-2019 12:00 pm	01-29-2019 02:30 pm	On-site. type 1\cross section done because (113 is a 7)
Darrel Reich	01-29-2019 12:00 pm	01-29-2019 02:30 pm	On-site. type 1\cross section done because (113 is a 7)

Day	Weather	Temperature	Comments
01-29-2019 12:00 - 02:30	Sunny	25	type 1\cross section done because (113 is a 7)

R- Inspection	Current Value	Previous Value
(36A) Traffic Safety Features - Bridge Railings	0	0
(36B) Traffic Safety Features - Transitions	0	N
(36C) Traffic Safety Features - Approach guardrail	N	0
(36D) Traffic Safety Features - Approach guardrail Ends	0	0
(41) Structure Open, Posted, or Closed to Traffic	P	P
(58) Deck Rating	6	6
(59) Superstructure	5	6
(60) Substructure	5	5
(MDT061) Type 1 Underwater Inspection Required	Y	
(61) Channel	7	7
(62) Culvert	N	N
(67) Structural Evaluation	4	4
(68) Deck Geometry	2	2
(71) Waterway Adequacy	8	8
(MDT090) Climbing Inspection Required	Group B	Y
(MDT118) Type 2 Underwater Consultant		
(MDT121) Functional Needs		

Inspection Hours and Dates	Current Value	Previous Values
(90) Inspection Date	2017-08-08	2017-8-10



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(91) Regular Inspection Frequency (Months)	24	24.00
(92A-1) FC Inspection Required	Y	Y24
(92A-2) FC Inspection Frequency (Months)	24	
(92B-1) Type 2 Underwater Inspection Required	N	N
(92C-1a) Other Inspection Required	N	N
(93A) FC Inspection Date	2017-08-08	2017-8-10
(MDT005) Date Last QA	2000-01-01	
(MDT010) FC Inspection Details	D	
(MDT011) FC Next Inspection Date	2019-6-15	2019-08-08
(MDT016) Load Rating Date	2012-01-20	
(MDT023) Next Inspection Date	2019-06-15	2019-08-08
(MDT028) Other Inspection Details	none	
(MDT034) Request Review of Load rating	1	
(MDT050) Snooper Required	N	
(MDT061) Type 1 Underwater Inspection Required	Y	
(MDT062) Type 1 Underwater Inspection Date	2019-01-29	2019-01-29
(MDT063) Type 1 Underwater Inspection Frequency (months)	48	
(MDT064) Type 1 Underwater Inspection Next Date	2023-1-29	
(MDT074) Underwater Inspection Details	1	N
Other Inspection Frequency (Months)		
Other Inspection Next Date		
Special Inspection Date		
Special Inspection Frequency (months)		
Special Inspection Next Date		
Special Inspection Required		
Type 2 Underwater Inspection Frequency (Months)		
Type 2 Underwater Next Inspection Date		

General Inspection Notes

type 1\cross section done because (113 is a 7) no other reason- should consider having consultant complete in future when doing there climbing\inspection.

MDT Item	Value
Amount of channel constriction	3 < 50%
Angle of attack	0 0-10 degrees
Bed Material	2 Gravel

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Bridge located near a stream confluence	0 No
Bridge location at stream bend	0 No
Constriction due to channel vegetation	0 None
Flow impinging on abutment or wingwall	0 No
Number of piers	3
Pier nose Shape	1 Pointed
Pier width	1 3 ft to 4 ft
Potential for debris\ice accumulation	2 Medium
Comments	type 1\cross section done because (113 is a 7) no other reason- should consider having consultant complete in future when doing there climbing\inspection.

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Repair Suggestions:

Repair ID	Date Requested	Repair Type	Status	Priority

Element Inspection Data

Element #	Parent Element	Name	Unit	Quantity	%CS 1	%CS 2	%CS 3	%CS 4
205		Reinforced Concrete Column (EA)	Each	3	0.0	0.0	0.0	0.0

Previous Inspection Notes:

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Current Inspection Notes:

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Element #	Parent Element	Name	Unit	Quantity	%CS 1	%CS 2	%CS 3	%CS 4
210		Reinforced Concrete Pier Wall (LF) Bent 2	Length	13	0.0	0.0	0.0	0.0
210		Reinforced Concrete Pier Wall (LF) Bent 3	Length	13	0.0	0.0	0.0	0.0

Previous Inspection Notes:

Current Inspection Notes:

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Element #	Parent Element	Name	Unit	Quantity	%CS 1	%CS 2	%CS 3	%CS 4
215		Reinforced Concrete Abutment (LF) A1	Length	23	0.0	0.0	0.0	0.0
215		Reinforced Concrete Abutment (LF) A5	Length	23	0.0	0.0	0.0	0.0
Previous Inspection Notes:								
Current Inspection Notes:								

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Element #	Parent Element	Name	Unit	Quantity	%CS 1	%CS 2	%CS 3	%CS 4
900		Scour	Each	1	0.0	0.0	0.0	0.0

Previous Inspection Notes:

Current Inspection Notes:



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Element #	Parent Element	Name	Unit	Quantity	%CS 1	%CS 2	%CS 3	%CS 4
901		Scour Countermeasures	Each	1	0.0	0.0	0.0	0.0

Previous Inspection Notes:

Current Inspection Notes:

Underwater Measurements Points Table

Measure #	Line Depth	Line Distance
1	0	-6.7000000000000002
2	11	-14.8000000000000010
3	30	-20.8000000000000010
4	65	-20.8000000000000010
5	92	-22.1000000000000010
6	106	-22.3000000000000010
7	119	-16.50
8	128	-16.1999999999999990
9	154	-17
10	160	-17
11	164	-19.3999999999999990
12	176	-21.6000000000000010
13	200	-25.6000000000000010
14	230	-32.1000000000000010
15	250	-34.7999999999999970
16	275	-35.50
17	300	-29.8000000000000010
18	325	-20.50
19	336	-16.6999999999999990
20	343	-5

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