

**Oregon Department of Transportation
Bridge Inspection Report**

District :	10	Structure :	Couch Lateral, Sisemore Rd	Bridge ID :	17C02
Fac Crossed :	COUCH LATERAL	Owner :	County Hwy Agency	Fac Carried :	Sisemore Road
Suff Rating :	49.2	County :	Deschutes	Mile Point :	6.77 mi
AC Depth :	4.50	Record Type :	1	Insp Date :	03/27/2018
Bridge Length :	105.00 ft	Insp Freq :	24	Inspector 1 :	JOHN HARMS (C0079)
		Bridge Width :	16.00 ft	Inspector 2 :	

Signature: _____

Element Condition States (New AASHTO report)

Element	Structure Unit	Environment	Quantity	Units	CS 1	CS 2	CS 3	CS 4	Temp
38-Re Concrete Slab	1	3	1680	(SF)	1008	504	168	0	
1081-Soffit Spalls/Delams/Patches	1	3	504	(SF)	0	336	168	0	
1090-Exposed Rebar	1	3	168	(SF)	0	168	0	0	
511-AC Wearing Surface	1	3	1680	(SF)	1680	0	0	0	
210-Re Conc Pier Wall	1	3	64	(LF)	0	37	27	0	
1080-Delamination/Spall/Patched Area	1	3	32	(LF)	0	8	24	0	
1090-Exposed Rebar	1	3	24	(LF)	0	24	0	0	
1130-Cracking (RC and Other)	1	3	4	(LF)	0	4	0	0	
1190-Abrasion(PSC/RC)	1	3	4	(LF)	0	1	3	0	
215-Re Conc Abutment	1	3	32	(LF)	0	18	14	0	
1080-Delamination/Spall/Patched Area	1	3	16	(LF)	0	4	12	0	
1090-Exposed Rebar	1	3	6	(LF)	0	6	0	0	
1130-Cracking (RC and Other)	1	3	10	(LF)	0	8	2	0	
330-Metal Bridge Railing	1	2	280	(LF)	280	0	0	0	
980-Approach Roadway Embank	1	2	1	(EA)	1	0	0	0	
999-Roadway Impact	1	2	1	(EA)	0	0	1	0	

Appraisal

Appraisal	NBI #	Rating
Scour	113	8 Stable Above Footing

NBI Category

Category	NBI #	Rating
Deck Condition	58	4 Poor

Appraisal	NBI #	Rating
Bridge Rail	36A	0 Substandard
Transitions	36B	0 Substandard
Approach Rail	36C	0 Substandard
Rail Ends	36D	0 Substandard
Structural	67	4 Minimum Tolerable
Deck	68	2 Intolerable - Replace
Clearance	69	N Not applicable (NBI)
Waterway	71	8 Equal Desirable
Approach Alignment	72	6 Equal Min Criteria

Category	NBI #	Rating
Superstructure	59	4 Poor
Substructure	60	4 Poor
Channel	61	7 Minor Damage
Culvert/Retaining Walls	62	N N/A (NBI)

Remarks

38-Re Concrete Slab

THE DECK CONSISTS OF FILL OVER THE ARCHES COVERED WITH AC WEARING SURFACE.---

1081-Soffit Spalls/Delams/Patches

LARGE SPALLS THROUGHOUT ARCH STRUCTURE.

1090-Exposed Rebar

LARGE SPALLS AND ROCK POCKETS EXPOSING STEEL REINFORCING.

210-Re Conc Pier Wall

BRIDGE IS ALSO A DAM

1080-Delamination/Spall/Patched Area

LARGE SPALLS AND ROCK POCKETS THROUGH OUT ALL PIERS. SPALL IN SPAN 2 SIDE OF BENT 2 WITH LEAKING WATER.

1090-Exposed Rebar

LARGE SPALLS AND ROCK POCKETS EXPOSING REINFORCING STEEL THROUGH OUT ALL PIERS.

1130-Cracking (RC and Other)

CRACKS IN PIERWALLS.

1190-Abrasion(PSC/RC)

HEAVY ABRASION FROM DECK DRAINS DRAINING ON THE DOWNSTREAM ENDS OF PIERWALLS.

215-Re Conc Abutment

1080-Delamination/Spall/Patched Area

LARGE SPALLS AND ROCK POCKETS THROUGHOUT.

1090-Exposed Rebar

LARGE ROCK POCKETS AND SPALLS WITH EXPOSED REBAR THROUGHOUT.

1130-Cracking (RC and Other)

LARGE SHEAR CRACK ON THE DOWNSTREAM END OF BNET 6 (SOUTH ABUTMENT). NUMEROUS CRACKS THROUGHOUT.

330-Metal Bridge Railing

999-Roadway Impact

ROADWAY SETTLEMENT AT SOUTH APPROACH CAUSING IMPACT ONTO BRIDGE.

Notes
Inspection Notes
Bridge Notes

BRIDGE IS LISTED IN THE OREGON HISTORIC BRIDGE MANUAL. Detour map created and detour length edited Erick Cain 09/02/2009

Bridge Hydraulics Notes

**Maintenance Recommendations
As of: 6/8/2018**

Priority	Crew	Wrk Cnd	Notes	Est.cost	Status	Rec Date
Urgent	Local Agency	144 RC Arch Replace	REPAIR ALL SPALLS ON ARCH STRUCTURE	10000	Under Review	03/18/2003
Urgent	Local Agency	144 RC Arch Strengthen	CONSIDER A MAJOR REHAB	0	Under Review	03/18/2003
Urgent	Local Agency	210 RC Pier Wall Crack Injection	REPAIR ALL SPALLS AT PIER WALLS	10000	Under Review	03/18/2003

*Completed items not included on default search

Load Rating

Rating Date :	05/19/1999	Posting Req :	5 At/Above Legal Loads
Design Load :	2 M 13.5 (H 15)	Posting Status :	A Open, no restriction
Operating Load :	91 ton	OR Method :	1 LF Load Factor
Inventory Rating :	55 ton	IR Method :	1 LF Load Factor

Truck	Rating Factor	% Below	Posting Required	Controlling Member	Actual Posting	Posting Date
Type 3	3.13	5 At/Above Legal Loads	No	Concrete Arch, span 1 of 5 +M at 0.5L		
Type 3S-2	3.13	5 At/Above Legal Loads	No	Concrete Arch, span 1 of 5 +M at 0.5L		
Type 3-3	3.79	5 At/Above Legal Loads	No	Concrete Arch, span 1 of 5 +M at 0.5L		
SU4						
SU5						
SU6						
SU7						
EV2						
EV3						

Load Rating Notes

Load Rating Condition Comparison Chart

Category	NBI #	Rating Condition	Current Condition
Traffic Impact		7 Good	CS3
Deck Condition	58	5	4
Superstructure	59	5	4
Substructure	60	5	4
Temporary Repairs	103		
Wearing Surface Thickness		0.00	4.50

Inspection Schedule

Activity	Conducted On	Frequency	Next Inspection
Routine Inspection	03/27/2018	24	03/01/2020
X-Channel	03/27/2018	48	03/01/2022

Oregon Department of Transportation Structure Inventory and Appraisal Report

Suff Rating: 49.2

**Bridge NO: 17C02
Insp Date: 03/27/2018**

(2) Highway District	District 10	(42A) Type Service On	1	(75) Type of Work	311
(3) County	Deschutes	(42B) Type Service Under	5	(76) Improvement Length	114.83 ft
(4) City	00000	(43) Struct Main	2 Concrete Continuous 11 Arch-Deck	(90) Inspection Date	03/27/2018
(5) Inventory Route	141011060	(44) Struct Appr	0 Not Applicable 00 Not Applicable	(91) Inspection Frequency	24
(6) Feature INT	COUCH LATERAL	(45) Number Main Spans	5	(92) Critical Feat Insp (A) Fracture Critical (B) Underwater Insp	
(7) Facility Carried	Sisemore Road	(46) Number Appr Spans	0	(94) Cost of Improvement	369796
(8) Structure Number	17C02 A09 00520	(47) Horizontal Clearance	14.50 ft	(95) Roadway Improvement	36980
(9) Location	0.1 MI N TUMALO RES ROAD	(48) Maximum Span Length	20.00 ft	(96) Project Improvement	591674
(10) Vert Clearance	99.99 ft	(49) Structure Length	105.00 ft	(97) Year of Improvement	2011
(11) Mile Post	6.77 mi	(50A) Sidewalk Width LT	0.00 ft	(98) Border BRST-Code	
(12) Base Highway Network	0	(50B) Sidewalk Width RT	0.00 ft	(100) Defense Highway	0
(13) LRS Inventory Route	000000000000	(51) Bridge Roadway Width	14.50 ft	(101) Parallel Structure	N
(16) Latitude	44° 8' 21.55"	(52) Deck Width	16.00 ft	(102) Direction of Traffic	3
(17) Longitude	121° 24' 54.61"	(53) Vert Clear Over Deck	99.99 ft	(103) Temporary Structure	
(19) Bypass Detour	1.05 mi	(54) Vert Clear Under Deck	N 0.00 ft	(104) Highway System	0

(20) TOLL	3 On free road	(55) Min Lat Underclear CD	N 0.00 ft	(105) Federal Lands HWY	0
(21) Custodian	County Highway Agency	(56) Min Lat Underclear	L 0.00 ft	(106) Year Reconstructed	
(22) Owner	County Highway Agency	(58) Deck	4	(107) Deck Structure	N
(26) Func Class	09 Rural Local	(59) SuperStructure	4	(108) Wearing Surface	600
(27) Year Built	1914	(60) SubStructure	4	(109) Truck ADT	2%
(28) Lanes	on: 1 / under: 0	(61) Channel	7	(110) Designated National Network	0
(29) Average Daily Traffic	172	(62) Culvert	N	(111) Pier Protection	
(30) Year of ADT	2010	(63) Oper Rating Method	1	(112) NBIS Bridge Length	Y
(31) Design Load	2 M 13.5 (H 15)	(64) Operating Rating	91.00 ton	(113) Scour Critical Bridge	8
(32) Approach Roadway	15.00 ft	(65) Inv Rating Method	1	(114) Future ADT	263
(33) Bridge Median	0 No median	(66) Inventory Rating	55.00 ton	(115) Year of Future ADT	2030
(34) Skew	0°	(67) Structure Condition	4	(116) Vert-Lift Clearance	
(35) Structure Flared	0 No flare	(68) Deck Geometry	2	(117) Est Maint Cost	
(36) Traffic Safety Feature	0000	(69) Underclearance	N	(118) Culvert Length	
(37) Historical Significance	2	(70) Posting	5	(119) Culvert Inside Height	
(38) Navigation Control	0	(71) Waterway Adequacy	8	(120) Inspector	JOHN HARMS (C0079)
(39) Navigation Vert Clear	0.00 ft	(72) APPR RDWY Alignment	6	(122) Highway/CO RD	110601
(40) Navigation Horz Clear	0.00 ft			(125) Embankment Erosion	5
(41) Open Status	A				

Quality Assurance:

WS Depth	4.50	(52) Deck Width	16.00 ft	(70) Posting	5
(28) Lanes	on: 1 / under: 0	(53) Vert Clear Over Deck	99.99 ft	(71) Waterway Adequacy	8
(32) Approach Roadway	15.00 ft	(58) Deck	4	(72) APPR RDWY Alignment	6
(41) Open Status	A	(59) SuperStructure	4	(95) Roadway Improvement	36980
(43) Struct Main	2 Concrete Continuous	(60) SubStructure	4	(103) Temporary Structure	
(44) Struct Appr	0 Not Applicable	(61) Channel	7	(108) Wearing Surface	600
(46) Number Appr Spans	0	(62) Culvert	N	(113) Scour Critical Bridge	8
(51) Bridge Roadway Width	14.50 ft			(125) Embankment Erosion	5

Bridge Clearance Documents: Not Available

Bridge Detours Maps: [17C02.tif](#)

Bridge Images: [IM17C02_A0.JPG](#) [IM17C02_A1.JPG](#) [IM17C02_A2.JPG](#) [IM17C02_A3.JPG](#) [IM17C02_A4.JPG](#) [IM17C02_A5.JPG](#) [IM17C02_A6.JPG](#) [IM17C02_A7.JPG](#) [IM17C02_A8.JPG](#) [IM17C02-A0.JPG](#) [IM17C02-A1.JPG](#)

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[IM17C02-A8.JPG](#) [IM17C02-A9.JPG](#) [IM17C02-B0.JPG](#) [IM17C02_A0.JPG](#) [IM17C02_A1.JPG](#) [IM17C02_A3.JPG](#)
[IM17C02_A4.JPG](#) [IM17C02_A5.JPG](#) [IM17C02_A6.JPG](#)

Job Hazard Assessment: Not Available

Cross Channel Documents: [XC17C02.pdf](#)

Gusset Plate Documents: Not Available

Fracture Critical Inspection Documents: Not Available

Fatigue Prone Assessment: Not Available

Under Water: Not Available

Scour Plan Of Action: Not Available

Timber Boring: Not Available

Pin Hanger: Not Available

Deck Surveys: Not Available

Draw Bridges: Not Available

Supplemental: Not Available

Critical Findings: Not Available

Tunnel Maps: Not Available

Tunnel Access: Not Available