

**Bridge Inspection Report**

NBI Structure Number: 023201100012000

Sandown 110/120

Date of Inspection: 07/18/2017

Date Report Sent: 11/09/2017

Owner: Municipality

Bridge Inspection Group: D-Team

Bridge Maintenance Crew: OTHER

ODELL ROAD

over

EXETER RIVER

**Recommended Postings:**Weight: **No Posting Required**☒ Weight Sign OKWidth: **Not Required**☒ Width Sign OKPrimary Height Sign Recommendation: *None*Optional Centerline Height Sign Rec: *None*

**Clearances:** Over: 99.99  
(Feet) Under: 0.00  
Route: 99.99

☒ Height Sign OK**Condition:**

Red List Status: Not on the Redlist

Deck: N N/A (NBI)

Superstructure: N N/A (NBI)

Substructure: N N/A (NBI)

Culvert: 8 Very Good

Sufficiency Rating: 100 %

NBI Status: Not Applicable

Bridge Rail: N/A or Not Required

Rail Transition: N N/A or not required

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Meets Standards

**Structure Type and Materials:**

Number of Main Spans: 1

Number of Approach Spans: 0

**Main Span Material and Design Type**

Steel Culvert

NH Bridge Type: MP (Metal Pipe)

Deck Type: No Deck ( N/A - NBI)

Wearing Surface: No Deck ( N/A - NBI)

Membrane: No Deck ( N/A - NBI)

Deck Protection: No Deck ( N/A - NBI)

Curb Reveal: Not Measured

Plan Location: unknown

Total Bridge Length: 16.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 0.0 ft

Median: No median

Bridge Skew: 0.00 °

Year Built/Rebuilt: 1984/2004

Detour Length: 5.0 mi

**Bridge Dimensions:**

Length Maximum Span: 16.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 0.0 ft

Approach Roadway Width: 18.0 ft  
(W/Shoulders)

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### Bridge Service:

Type of Service on Bridge: Highway

Type of Service Under: Waterway

Lanes on Bridge: 2

Lanes Under: Not Applicable

AADT: 830

Percent Trucks: 4%

Year of AADT: 2013

Future AADT: 1,228

Year of Future AADT: 2037

Federal or State Definition Bridge: NH-Definition Bridge

National Highway System: Bridge does not carry NHS

Roadway Functional Class: Rural Local

New Hampshire Highway System and Class: Municipal Highway

Eligibility for the National Register of Historic Places: Not Eligible

Traffic Direction: Two-way traffic

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## Element Details (see disclaimer below)

No.	Description	Material Notes and Condition Notes:
215	Reinforced Concrete Abutment	Element record added 7/18/2017 CAST IN PLACE CONCRETE INVERT, WINGS AND HEADWALLS, FINE CRACKS.
240	Steel Culvert	MP - 6" x 2" x 0.109 GAGE. 15'- 6" CLEAR SPAN. MP - TWO SMALL CUT HOLES AT ROOF LINE. REBAR IS WELDED TO BOLT HEADS AT WEST SIDE. CONCRETE INVERT - FINE CRACKS.

## Element States (see disclaimer below)

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
215	Reinforced Concrete Abutment	134	ft	100%	0%	0%	0%
240	Steel Culvert	50	ft	100%	0%	0%	0%

Element Disclaimer: NHDOT is transitioning from CoRe elements to AASHTO elements. The AASHTO element data shown above is the product of the automated element migration routine from the AASHTOWare BrM software. This migrated data has undergone limited field verification. Adequate quality control of this element data is not expected to be achieved until the conclusion of the 2020 inspection season. Please utilize element data with caution.

## Bridge Notes:

REHABILITATED BY BOBM 12/17/04. CONCRETE INVERT TO INCLUDE CUT OFF WALL, HEADWALLS, AND WINGS PLACED. REMOVED FROM THE MUNICIPAL RED LIST AS A RESULT OF REPAIRS.

## Inspection Notes: 07/18/2017

BTB INSPECTION COMMENTS -  
ASPHALT- NO DAMAGE.

CULVERT: MP - TWO SMALL CUT HOLES AT ROOF LINE. REBAR IS WELDED TO BOLT HEADS AT WEST SIDE. SUBSTRUCTURE: CAST IN PLACE CONCRETE INVERT, WINGS AND HEADWALLS, FINE CRACKS.

PICTURES: D204-

82. SOUTH APPROACH.

83. WEST ELEVATION.

84. BANK EROSION ALONG NORTHEAST WING.

## Previous Inspection Notes: 07/30/2015

MAS - INSPECTION COMMENTS -

CULVERT: ASPHALT - GOOD CONDITION. MP - TWO SMALL CUT HOLES AT ROOF LINE. REBAR IS WELDED TO BOLT HEADS AT WEST SIDE. CONCRETE - FEW FINE CRACKS. SMALL SCOUR HOLE DOWN STREAM.

## Approach and Roadway Notes:

APPROACH ASPHALT- CRACKED AND PATCHED, SOME SEALED. APPROACH W-BEAM RAIL- FEW SCRAPES.

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**Sandown 110/120****Inspection History**

Inspection Date	Inspector Initials	Inspection Type(s) Performed				Major Element Ratings				Red list	Posting
		NBI	Elem	FCM	U/W	Deck	Super	Sub	Culvert		
07/18/2017	NJL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/30/2015	MAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/17/2013	MAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/13/2011	KJT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/21/2009	KJT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
01/25/2007	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
08/22/2005	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
10/04/2004	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	3	<input type="checkbox"/>	Bridge Closed
08/28/2003	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	3	<input checked="" type="checkbox"/>	6 Tons
11/27/2002	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	3	<input checked="" type="checkbox"/>	E-2
02/07/2002	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	3	<input checked="" type="checkbox"/>	E-2
08/29/2001	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	3	<input checked="" type="checkbox"/>	E-2
12/11/2000	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	E-2
11/20/2000	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	E-2
03/01/1998	DPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	E-2
10/01/1997		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input checked="" type="checkbox"/>	E-2
09/01/1995		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	E-2
02/01/1994		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	5	<input type="checkbox"/>	E-2
08/01/1991		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	N	<input type="checkbox"/>	E-2

**Inspection Frequency (mo.)**

NBI	Elem	FCM	U/W
24	24	N/A	N/A

BRIDGE CAPACITY SUMMARY

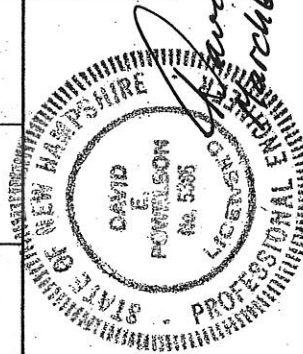
TOWN Sandown  
 BRIDGE NUMBER 110/120  
 RATED BY DEP DATE 3-6-6  
 CHECK BY \_\_\_\_\_ DATE \_\_\_\_\_  
 OVER Exeter River

DESIGN LOAD Unknown DESIGN METHOD Unknown  
 RATING METHOD LFD PLAN FILE Unknown  
 ROUTE Odell Road

RATED MEMBER	LONGITUDINAL EFFECTIVE SPAN LENGTH	REQUIRED CAPACITY (HS Tons)			AVAILABLE CAPACITY (HS Tons)			
		CURRENT LEGAL LOADS	CERTIFIED VEHICLES		MULTIPLE LANES LOADED		SINGLE LANE LOADED	
			SINGLE UNIT	MULTIPLE UNIT	INVENTORY	OPERATING	INVENTORY	OPERATING
Corrugated Steel Culvert	3'-6"	HS14.0	HS15.9	HS15.9	HS 21.9	HS 36.5	HS 21.9	HS 36.5
RECOMMENDED POSTING: No Posting Required					Rating Method		English Tons	Metric Tons
					(Op.) 63. <u>LFD</u> (Inv.) 65. <u>LFD</u>		64. (Op.) <u>65.7</u> 66. (Inv.) <u>39.4</u>	<u>59.1</u> <u>35.4</u>

RECOMMENDED POSTING:

No Posting Required



David E. Powlson  
 March 6, 2006