

# Bridge Inspection Report

NBI Structure Number: 009300880011700

Gilsum 088/117

Date of Inspection: 05/15/2023

**SURRY RD**

Date Report Sent: 09/05/2023

over

Owner: NHDOT

**ASHUELOT RIVER**

Bridge Inspection Group: B-Team

Bridge Maintenance Crew: 07

### Recommended Postings:

Weight: **E-2**

Weight Sign OK

*SIGNS IN GOOD CONDITION.*

Width: **Not Required**

Width Sign OK

Primary Height Sign Recommendation: *None*

**Clearances:** Over: 99.99

Height Sign OK

Optional Centerline Height Sign Rec: *None*

(Feet) Under: 0.00

Route: 99.99

### Condition:

Red List Status: Not on the Redlist

Deck: 6 Satisfactory

Superstructure: 6 Satisfactory

Substructure: 6 Satisfactory

Culvert: N N/A (NBI)

Sufficiency Rating: 60 %

Bridge Rail: Substandard

Rail Transition: Substandard

Bridge Approach Rail: Substandard

Approach Rail Ends: Substandard

### Structure Type and Materials:

Number of Main Spans: 1

Number of Approach Spans: 0

#### **Main Span Material and Design Type**

Masonry/Arch-Deck

NH Bridge Type: MA (Masonry Arch)

Deck Type: N/A (NBI)

Wearing Surface: N/A (no deck (NBI))

Membrane: N/A (no deck (NBI))

Deck Protection: N/A (no deck (NBI))

Curb Reveal: Not Measured

Plan Location:

Total Bridge Length: 47.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 23.8 ft

Median: No median

Bridge Skew: 0.00°

Year Built/Rebuilt: 1863/1951

### Bridge Dimensions:

Length Maximum Span: 47.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 22.0 ft

Approach Roadway Width: 19.0 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: 0

AADT: 1,214

Percent Trucks: 10%

Year of AADT: 2022

Future AADT: 1,796

Year of Future AADT: 2042

Federal or State Definition Bridge: Fed-Definition Bridge

National Highway System: Bridge does not carry NHS

Roadway Functional Class: Rural, Minor Collector

New Hampshire Bridge Tier: 4

Eligibility for the National Register of Historic Places: Br on Natl Reg Hist Pl

Traffic Direction: 2-way traffic

## National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: 3 Intolerable - Correct

Underclearances: N Not applicable (NBI)

Approach Alignment: 4 Minimum Tolerable

Structural Evaluation: 5 Above Min Tolerable

Channel/Channel Protection: 5 Bank Prot Eroded

Waterway Adequacy: 8 Equal Desirable

Bridge Scour Critical Status: 8 Stable Above Footing

Riprap Condition: Good Condition

Debris Present: No Debris Present

Channel Notes: VOIDS UNDER WEST ABUTMENT.

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## Element Details

No.	Description	Material Notes and Condition Notes:
145	Masonry Arch	ASPHALT - CRACKED IN AREAS.. CRACKS IN STONES, FINES LEACHING OUT AT HEADWALLS AND EAST SIDE OF ARCH.
L 1120	Efflorescence/Rust Staining	LEAKING WITH MINOR RUST STAINS. FINES LEACHING OUT AT HEADWALLS AND EAST SIDE OF ARCH.
L 1620	Split/Spall (Masonry)	CRACKS IN STONES BOTH SIDES OF ARCH.
217	Masonry Abutment	FEW CRACKED STONES. WEST TOE WALL HAS VOIDS AT BASE. MINOR BULGING AT WINGS.
L 1620	Split/Spall (Masonry)	FEW CRACKED STONES.
L 4000	Settlement	MINOR BULGING AT WINGS.
L 6000	Scour	WEST TOE WALL HAS VOIDS AT BASE EXPOSING LEDGE.
333	Other Bridge Railing	CABLES LOOSE. SEVERAL DAMAGED AND LOOSE POST. MINOR SPALLS FEW WITH REBAR EXPOSED IN CONCRETE CURB. LIGHT TO HEAVY RUST AT SEVERAL POST.
L 1000	Corrosion	LIGHT RUST AT SEVERAL POST. FEW POST ARE HOLED.
L 1020	Connection	CABLES LOOSE. FEW POST BASE NUTS LOOSE OR MISSING. BASE BOLT BROKEN AT POST # 1, SOUTH RAIL.
L 1080	Delamination/Spall/Patched Area	SEVERAL MINOR SPALLS, FEW WITH REBAR EXPOSED, IN CONCRETE CURB.
L 7000	Damage	SEVERAL DAMAGED POST. ONE POST BASE BOLT BROKEN AND TIPPED NEAR SOUTHWEST END.

## Element States

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
145	Masonry Arch	48	ft	58%	42%	0%	0%
L 1120	Efflorescence/Rust Staining	10	ft	0%	100%	0%	0%
L 1620	Split/Spall (Masonry)	10	ft	0%	100%	0%	0%
217	Masonry Abutment	121	ft	75%	25%	0%	0%
L 1620	Split/Spall (Masonry)	10	ft	0%	100%	0%	0%
L 4000	Settlement	15	ft	0%	100%	0%	0%
L 6000	Scour	5	ft	0%	100%	0%	0%
333	Other Bridge Railing	95	ft	64%	32%	3%	1%
L 1000	Corrosion	10	ft	0%	70%	30%	0%
L 1020	Connection	6	ft	0%	83%	0%	17%
L 1080	Delamination/Spall/Patched Area	10	ft	0%	100%	0%	0%
L 7000	Damage	10	ft	0%	90%	0%	10%

## Bridge Notes:

NAME CHANGED FROM "OLD NH 10" TO "SURRY RD". 8/4/17-JTP  
NE RETAINING WALL REBUILT. COMPLETED 2002.  
POST FLOOD INSPECTION 7/2/2013.

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**Inspection Notes:** 05/15/2023

MHC: inspection comments-  
RAIL- LOOSE CABLES. RUSTED, LOOSE AND DAMAGED POSTS. ONE BROKEN AND TIPPED POST.  
DECK: CRACKS IN ASPHALT. CRACKS AND SPALLS IN CURBS.  
ARCH: FEW CRACKED STONES. AREAS OF LIGHT LEAKING.  
SUBSTRUCTURE: MINOR BULGING AT WINGS. FINES CRACKS AND LEACHING OUT OF HEADWALLS. VOIDS AT FOOTINGS.

PICTURES: B670  
43. SOUTH ELEVATION  
44. BASE BOLT BROKEN AT POST # 1, SOUTH RAIL.

**Previous Inspection Notes:** 05/06/2021

MTC: inspection comments-  
RAIL- LOOSE CABLES. RUSTED, LOOSE AND DAMAGED POSTS. ONE BROKEN AND TIPPED POST.  
DECK: CRACKS IN ASPHALT. CRACKS AND SPALLS IN CURBS.  
ARCH: FEW CRACKED STONES. AREAS OF LIGHT LEAKING.  
SUBSTRUCTURE: MINOR BULGING AT WINGS. FINES CRACKS AND LEACHING OUT OF HEADWALLS. VOIDS AT FOOTINGS.

PICTURES: B641  
62. WEST APPROACH.  
63. NORTHWEST WING.

**Approach and Roadway Notes:**

ASPHALT: FEW LIGHT CRACKS.  
POST WELD CRACKED AT SOUTHWEST. MINOR SPALLING AT SOUTHEAST CURB. NORTHEAST W-RAIL HEAVILY DAMAGED. OLD  
TIMBER POST AT SOUTHWEST AND SOUTHEAST HEAVILY DECAYED. BROKEN CABLE RAIL POST AT SOUTHWEST.

**Unusual or experimental features:**

**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		
05/15/2023	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
05/06/2021	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
05/08/2019	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
05/04/2017	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
05/15/2015	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
07/17/2013	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
05/16/2013	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
12/07/2012	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
04/05/2011	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
05/25/2010	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
06/05/2008	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
02/19/2008	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
10/15/2005	DEP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
04/09/2004	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
06/13/2002	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	E-2
05/11/2000	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	7	N	<input type="checkbox"/>	E-2
05/26/1998	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	7	N	<input type="checkbox"/>	E-2
05/01/1996		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	7	N	<input type="checkbox"/>	E-2
07/01/1994		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	7	N	<input type="checkbox"/>	E-2
05/01/1992		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	7	N	<input type="checkbox"/>	E-2

Inspection Frequency (mo.)			
NBI	Elem	FCM	U/W
24	24	N/A	N/A