

# Bridge Inspection Report

NBI Structure Number: 006000750018500

Deerfield 075/185

**Date of Inspection:** 09/18/2023  
**Date Report Sent:** 11/03/2023  
Owner: Municipality  
Bridge Inspection Group: C-Team  
Bridge Maintenance Crew: OTHER  
**Bridge also in:** Epsom, New Hampshire

**OLD RICHIE ROAD**  
over  
**GRIFFIN BROOK**

### Recommended Postings:

Weight: **E-2**

Weight Sign OK

SIGNS IN PLACE 9/18/2023.

Width: **Not Required**

Width Sign OK

Primary 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: 7 Good

Superstructure: 7 Good

Substructure: 7 Good

Culvert: N N/A (NBI)

Sufficiency Rating: 64 %

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**

Concrete/Slab

NH Bridge Type: CS (Concrete Slab)

Deck Type: Concrete-Cast-in-Place

Wearing Surface: Gravel

Membrane: None

Deck Protection: None

Curb Reveal: Not Measured

Plan Location: unknown

Total Bridge Length: 15.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 22.7 ft

Median: No median

Bridge Skew: 0.00°

Year Built/Rebuilt: 1950

### Bridge Dimensions:

Length Maximum Span: 11.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 21.0 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: 0

AADT: 90

Percent Trucks: 4%

Year of AADT: 2022

Future AADT: 133

Year of Future AADT: 2042

Federal or State Definition Bridge: NH-Definition Bridge

National Highway System: Bridge does not carry NHS

Roadway Functional Class: Rural, Local

New Hampshire Bridge Tier: 5

Eligibility for the National Register of Historic Places: Possibly eligible for

Traffic Direction: 2-way traffic

## National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: 5 Above Tolerable

Underclearances: N Not applicable (NBI)

Approach Alignment: 6 Equal Min Criteria

Structural Evaluation: 4 Minimum Tolerable

Channel/Channel Protection: 7 Minor Damage

Waterway Adequacy: 7 Above Minimum

Bridge Scour Critical Status: 8 Stable Above Footing

Riprap Condition: Fair Condition

Debris Present: No Debris Present

Channel Notes: LIGHT BANK EROSION. BANKS SLUMPING DOWNSTREAM, TREES LEANING.  
HIGH WATER LEVEL 9/18/2023.

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## Element Details

No.	Description	Material Notes and Condition Notes:
38	Reinforced Concrete Slab	GRAVEL COVERED. WASHED, FEW POTHOLES. HEAVY VEGETATION ALONG CURB LINES. SOFFIT HAS FINE CRACKS AND FEW MINOR SPALLS.
L 1080	Delamination/Spall/Patched Area	
L 1130	Cracking (RC and Other)	
215	Reinforced Concrete Abutment	ABUTMENTS HAVE FINE CRACKS AND LIGHT SPALLS AT WATER LINE. WINGS HAVE MINOR SPALLS AT JOINTS.
L 1080	Delamination/Spall/Patched Area	
L 1130	Cracking (RC and Other)	
331	Reinforced Concrete Bridge Railing	FINE AND LIGHT CRACKS AND MINOR SPALLS.
L 1080	Delamination/Spall/Patched Area	
L 1130	Cracking (RC and Other)	

## Element States

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
38	Reinforced Concrete Slab	344	sq.ft	93%	7%	0%	0%
L 1080	Delamination/Spall/Patched Area	5	sq.ft	0%	100%	0%	0%
L 1130	Cracking (RC and Other)	20	sq.ft	0%	100%	0%	0%
215	Reinforced Concrete Abutment	69	ft	42%	58%	0%	0%
L 1080	Delamination/Spall/Patched Area	30	ft	0%	100%	0%	0%
L 1130	Cracking (RC and Other)	10	ft	0%	100%	0%	0%
331	Reinforced Concrete Bridge Railing	30	ft	32%	68%	0%	0%
L 1080	Delamination/Spall/Patched Area	15	ft	0%	100%	0%	0%
L 1130	Cracking (RC and Other)	5	ft	0%	100%	0%	0%

## Bridge Notes:

This bridge is situated near the town bound between Deerfield and Epsom. Until further clarification of the border is determined, this bridge will be assigned as a border bridge with joint ownership between Epsom and Deerfield (NBG 3-3-2013).

## Inspection Notes: 09/18/2023

MAS - inspection comments -  
DECK / SUPERSTRUCTURE: GRAVEL - GOOD CONDITION, WASHED WITH FEW POTHOLES. HEAVY VEGETATION ALONG CURB LINES.  
RAIL - FINE AND LIGHT CRACKS AND MINOR SPALLS. SOFFIT - FINE CRACKS AND MINOR SPALLS.  
SUBSTRUCTURE: FINE CRACKS AND LIGHT SPALLS AT WATERLINE. HIGH WATER LEVEL 9/18/2023.

## Previous Inspection Notes: 09/16/2021

MAS - inspection comments -  
DECK / SUPERSTRUCTURE: GRAVEL - GOOD CONDITION, WASHED WITH FEW POTHOLES. HEAVY VEGETATION ALONG CURB LINES.  
RAIL - FINE AND LIGHT CRACKS AND MINOR SPALLS. SOFFIT - FINE CRACKS AND MINOR SPALLS.  
SUBSTRUCTURE: FINE CRACKS AND LIGHT SPALLS AT WATERLINE.

## Approach and Roadway Notes:

GRAVEL - (6) WASHED, FEW POTHOLES.  
NO APPROACH RAIL.  
LIGHT VEGETATION.

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## 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		
09/18/2023	MAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
09/16/2021	MAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
09/18/2019	MAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
09/14/2017	MAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
10/01/2015	KJT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
10/28/2013	KJT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
06/20/2013	MAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
06/02/2011	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
08/05/2009	KJT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
10/15/2007	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
09/07/2005	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
08/14/2003	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
07/20/2001	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
09/01/1997		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
09/01/1995		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input type="checkbox"/>	E-2
02/01/1994		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	8	7	N	<input type="checkbox"/>	E-2
07/01/1991		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	8	7	N	<input type="checkbox"/>	E-2

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