

# Bridge Inspection Report

NBI Structure Number: 005001670012000

## Colebrook 167/120

**Date of Inspection:** 10/23/2024

### BEAR ROCK ROAD

**Date Report Sent:** 01/24/2025

over

Owner: Municipality

### W BR MOHAWK RIVER

Bridge Inspection Group: A-Team

Bridge Maintenance Crew: OTHER

#### Recommended Postings:

Weight: **No Posting Required**

Weight Sign OK

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: N N/A (NBI)

Superstructure: N N/A (NBI)

Substructure: N N/A (NBI)

Culvert: 8 Very Good

Sufficiency Rating: 99.9 %

#### Structure Type and Materials:

Number of Main Spans: 1

Number of Approach Spans: 0

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

Concrete/Culvert

Bridge Rail: Meets Standards

Rail Transition: Meets Standards

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Meets Standards

NH Bridge Type: CRF-P (Conc Rigid Frame-Precast)

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: 7 in

Plan Location:

Total Bridge Length: 15.7 ft

Right Curb/Sidewalk Width: 0.5 ft

Total Bridge Width: 0.0 ft

Median: No median

Bridge Skew: 0.00°

Year Built/Rebuilt: 2024

#### Bridge Dimensions:

Length Maximum Span: 14.0 ft

Left Curb/Sidewalk Width: 0.5 ft

Width Curb to Curb: 0.0 ft

Approach Roadway Width: 23.0 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

AAADT: 107

Percent Trucks: 4%

Year of AADT: 2023

Future AADT: 158

Year of Future AADT: 2043

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: Not eligible for NRHP

Traffic Direction: 2-way traffic

## National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: N Not applicable (NBI)

Underclearances: N Not applicable (NBI)

Approach Alignment: 8 Equal Desirable Crit

Structural Evaluation: 8 Equal Desirable Crit

Channel/Channel Protection: 6 Bank Slumping

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 TO MODERATE SCOUR. UP TO 16" OF FOOTING FACE EXPOSED.

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## Element Details

| No. | Description                  | Material Notes and Condition Notes:   |
|-----|------------------------------|---|
| 215 | Reinforced Concrete Abutment | PRECAST WINGS AND HEADWALLS ONLY. NEW CONDITION.                            |
| 241 | Reinforced Concrete Culvert  | FEW MINOR INSTALLATION SPALLS.  |
| 330 | Metal Bridge Railing         | GALVANIZED T-101 BRIDGE RAIL ON GALVANIZED POSTS, NEW, 2024. NEW CONDITION. |

## Element States

| No. | Description                  | Quantity | Units | State 1 | State 2 | State 3 | State 4 |
|-----|------------------------------|----------|-------|---------|---------|---------|---------|
| 215 | Reinforced Concrete Abutment | 80       | ft    | 100%    | 0%      | 0%      | 0%      |
| 241 | Reinforced Concrete Culvert  | 27       | ft    | 100%    | 0%      | 0%      | 0%      |
| 330 | Metal Bridge Railing         | 30       | ft    | 100%    | 0%      | 0%      | 0%      |

## Bridge Notes:

NEW CRF-P CULVERT UNDER 18" OF FILL AT FINISH GRADE, CONSTRUCTED, 2024..  
 3 - SECTIONS: 9' LONG X 4' HIGH X 14' WIDE. 12" THICK TOP AND 10" THICK LEGS.

## Inspection Notes: 10/23/2024

SRB & HGS inspection comments - \*\*\*REMOVED FROM MUNICIPAL REDLIST\*\*\*  
 \*\*\*NEW CRF-P CULVERT IN SAME LOCATION AS PREVIOUS MP\*\*\*

BRIDGE RAIL: GALVANIZED T-101 RAIL ON GALVANIZED POSTS. NEW CONDITION.

CULVERT: FEW MINOR INSTALLATION SPALLS.

ABUTMENT: PRECAST WINGS AND HEADWALLS ONLY. NEW CONDITION.

PICTURES: A569-23 THRU 28.

A569-23: WEST APPROACH.

A569-24: EAST APPROACH.

A569-25: UPSTREAM ELEVATION.

A569-26: DOWNSTREAM ELEVATION.

A569-27: NORTHEAST WING: PLAQUE STATING "2023 PROUDLY MADE IN NEW HAMPSHIRE BY MICHIE CORPORATION".

A569-28: SOME STONE ARMOR UNDER STRUCTURE SLUMPED INTO CHANNEL EXPOSING FOOTING FACES.

## Previous Inspection Notes: 10/11/2023

SRB & HGS inspection comments -  
 NO RAIL SYSTEM PRESENT.

CULVERT: TOPS FLATTENED AND DEFLECTING WITH LOADS. JOINTS SEPARATED AND SETTLED. HEAVY PITTING WITH HOLES IN INVERTS. COLLARS RUSTED AWAY AT UPSTREAM JOINTS AND NO LONGER SECURING INLET END SECTIONS OF EITHER BARREL WITH INLET END SECTIONS SHIFTED. WATER FLOWING BETWEEN PIPES FROM INLET END AND OUT AT UPSTREAM JOINTS. WATER FLOWING BETWEEN WEST BARREL AND OUT THROUGH HOLED COLLAR INTO EAST BARREL AT UPSTREAM JOINT. LOSS OF FILL BETWEEN BARRELS, BOTH PIPES VISIBLE WHERE COLLARS ARE RUSTED THROUGH. NEAR ELLIPTICAL IN SHAPE AT INLET. VOIDS AND SHIFTING STONES IN HEADWALLS WITH STONES TOPPLED. DIRT AND DEBRIS REMOVED FROM IMMEDIATE UPSTREAM CHANNEL. BEAVER DAM DEBRIS AT OUTLET.

PICTURES: A556-18 THRU 19.

## Approach and Roadway Notes:

ROADWAY: ASPHALT APPROACHES AND OVER STRUCTURE, NEW 2024. NEW CONDITION. (8)

HIGHWAY RAIL: NEW GALVANIZED W-BEAM RAIL WITH GALVANIZED METAL POSTS, COMPOSITE OFFSET BLOCKS AND SKT EAGRTS. NEW, 2024. NEW CONDITION.

EMBANKMENTS: WELL VEGETATED(GRASS) AND STONE ARMORED AT WING ENDS.

## Unusual or experimental features:

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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 |                                     |                  |
| 10/23/2024      | SRB                | <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 |
| 10/11/2023      | SRB                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/17/2022      | SRB                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/05/2021      | TDC                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/30/2020      | TDC                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/30/2020      | TDC                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/01/2019      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/19/2018      | TDC                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/02/2017      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/05/2016      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/06/2015      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/09/2014      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 09/19/2013      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 09/14/2012      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/10/2011      | MAH                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 09/01/2010      | WBL                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 09/02/2009      | WBL                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 08/12/2008      | BEP                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/30/2007      | WBL                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 10/10/2006      | BEP                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 6 Tons           |
| 12/05/2005      | WBL                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 08/23/2004      | WBL                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 03/16/2004      | BEP                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 10/11/2002      | BEP                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 12/05/2001      | WBL                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 10/16/2000      | BEP                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 12/22/1999      | BEP                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 09/22/1998      | WBL                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 01/01/1998      |                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 10/01/1996      |                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 10/01/1995      |                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 09/01/1994      |                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | 3       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |
| 10/01/1992      |                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N                     | N     | N   | N       | <input checked="" type="checkbox"/> | 10 Tons or 80%   |

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