

# Bridge Inspection Report

NBI Structure Number: 005500710016800

Cornish 071/168

Date of Inspection: 09/26/2023

**SQUAG CITY ROAD**

Date Report Sent: 11/03/2023

over

Owner: Municipality

**BLOW-ME-DOWN BROOK**

Bridge Inspection Group: B-Team

**Blow-Me-Down Covered Br.**

Bridge Maintenance Crew: OTHER

### Recommended Postings:

Weight: **Weight Limit 3 Tons and Passenger Cars Only**

Weight Sign OK

*SIGN DENTED AT WEST.*

Width: **One Lane Bridge**

Width Sign OK

*SIGN DENTED AT WEST.*

Primary Height Sign Recommendation: **6'-9"**

**Clearances:** Over: 7.00

Height Sign OK

Optional Centerline Height Sign Rec: *None*

(Feet) Under: 0.00

Route: 7.00

*SIGN SCRAPED AT WEST.*

### Condition:

Red List Status: Not on the Redlist

Deck: 6 Satisfactory

Superstructure: 6 Satisfactory

Substructure: 6 Satisfactory

Culvert: N N/A (NBI)

Sufficiency Rating: 37.5 %

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

Wood or Timber/Truss-Thru

NH Bridge Type: TB-C (Covered Bridge)

Deck Type: Wood or Timber

Wearing Surface: Wood or Timber

Membrane: None

Deck Protection: None

Curb Reveal: Not Measured

Plan Location: unknown

Total Bridge Length: 89.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 16.3 ft

Median: No median

Bridge Skew: 0.00 °

Year Built/Rebuilt: 1877/2002

### Bridge Dimensions:

Length Maximum Span: 76.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 13.7 ft

Approach Roadway Width: 10.0 ft

(W/Shoulders)

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## Bridge Service:

Type of Service on Bridge: Highway

Type of Service Under: Waterway

Lanes on Bridge: 1

Lanes Under: 0

AADT: 28

Percent Trucks: 4%

Year of AADT: 2022

Future AADT: 41

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, Local

New Hampshire Bridge Tier: 5

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

Traffic Direction: One lane bridge for 2-way traffic

## National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: 2 Intolerable - Replace

Underclearances: N Not applicable (NBI)

Approach Alignment: 8 Equal Desirable Crit

Structural Evaluation: 2 Intolerable - Replace

Channel/Channel Protection: 7 Minor Damage

Waterway Adequacy: 9 Above Desirable

Bridge Scour Critical Status: 8 Stable Above Footing

Riprap Condition: Good Condition

Debris Present: No Debris Present

Channel Notes:

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## Element Details

No.	Description	Material Notes and Condition Notes:
31	Timber Deck	4" X 8" UNTREATED  LIGHT TO MINOR WEAR, CRACKS, SPLITS, FEW NAILS LIFTING. CONCRETE APPROACH LOWER THAN DECKING AT WEST, 1 in. AT SOUTH AND 2 in. AT NORTH, SHIMMED WITH ASPHALT, ASPHALT RUTTED
L 1160	Crack (Timber)	MINOR TO LIGHT CRACKS.
L 1170	Split/Delamination (Timber)	MINOR SPLITS.
L 1180	Abrasion/Wear (Timber)	LIGHT TO MINOR WEAR, FEW NAILS LIFTING.
135	Timber Truss	STEEL CHORD CLAMPS REPLACED. MINOR SPLITS AND CHECKS. TWO SAW CUTS ON BOTTOM CHORD AT SOUTH NEAR JOINT. OVER HEIGHT DAMAGE AT SEVERAL KNEE BRACES.
L 1150	Check/Shake	MINOR SPLITS AND CHECKS.
L 1170	Split/Delamination (Timber)	MINOR SPLITS AND CHECKS.
L 7000	Damage	SEVERAL KNEE BRACES SCRAPPED. KNEE BRACE # 4 AT SOUTH, SCRAPPED AND CHECKED. TWO SAW CUTS ON BOTTOM CHORD AT SOUTH NEAR JOINT.
156	Timber Floor Beam	10.25" X 2.75" TO 6". AVG 14" C-C  FEW AREAS MINOR SPLITS AND CRACKS. MINOR DEFLECTION UNDER LOAD. LAST FOUR FLOOR BEAMS, SHIMS LOOSE AT SOUTHEAST.
L 1170	Split/Delamination (Timber)	FEW AREAS MINOR SPLITS AND CRACKS.
217	Masonry Abutment	VERTICAL CRACKS IN BACKWALL AND BRIDGE SEAT AT EAST. MINOR SPALLS AT TOP OF BACKWALL AT EAST. HEAVY SAND BUILD UP AT WEST BACKWALL.
L 1610	Mortar Breakdown (Masonry)	VERTICAL CRACKS IN BACKWALL AND BRIDGE SEAT AT EAST. MINOR SPALLS AT TOP OF BACKWALL AT EAST.
L 4000	Settlement	MINOR SETTLEMENT AT EAST.
332	Timber Bridge Railing	MINOR CRACKS AND SPLITS.
L 1160	Crack (Timber)	MINOR CRACKS AND SPLITS.

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## Element States

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
31	Timber Deck	1,281	sq.ft	77%	23%	0%	0%
└ 1160	Crack (Timber)	100	sq.ft	0%	100%	0%	0%
└ 1170	Split/Delamination (Timber)	100	sq.ft	0%	100%	0%	0%
└ 1180	Abrasion/Wear (Timber)	100	sq.ft	0%	100%	0%	0%
135	Timber Truss	177	ft	39%	61%	0%	0%
└ 1150	Check/Shake	10	ft	0%	100%	0%	0%
└ 1170	Split/Delamination (Timber)	10	ft	0%	100%	0%	0%
└ 7000	Damage	20	ft	0%	100%	0%	0%
156	Timber Floor Beam	1,273	ft	71%	19%	10%	0%
└ 1170	Split/Delamination (Timber)	100	ft	0%	100%	0%	0%
217	Masonry Abutment	33	ft	76%	24%	0%	0%
└ 1610	Mortar Breakdown (Masonry)	10	ft	70%	30%	0%	0%
└ 4000	Settlement	5	ft	0%	100%	0%	0%
332	Timber Bridge Railing	167	ft	95%	5%	0%	0%
└ 1160	Crack (Timber)	8	ft	0%	100%	0%	0%

## Bridge Notes:

Blow-Me-Down Covered Bridge or Squag City Covered Bridge  
 New Hampshire Covered Bridge Number 23  
 World Guide to Covered Bridges Number 29-10-10  
 SPIDER LIFT INSPECTION 10/3/2012 WITH HELP OF B.O.B.M. CREW 4.  
 \*\*REMOVED FROM MUNICIPAL RED LIST IN 2017 DUE TO REDEFINED RED LIST IN RSA 234:25-a.  
 LOAD POSTED BRIDGES WITH ELEMENTS IN FAIR OR BETTER CONDITION ARE NOW EXCLUDED FROM THE RED LIST.\*\*

## Inspection Notes: 09/26/2023

MTC - inspection comments -  
 DECK: CRACKS AND SPLITS WITH MINOR WEAR. CONCRETE APPROACH SETTLEMENT AT WEST, ASPHALT RUTTED.  
 SUPERSTRUCTURE: STEEL CHORD CLAMPS REPLACED. FEW AREAS OF LIGHT DECAY AND SECTION LOSS. MINOR DEFLECTION UNDER LOAD. MINOR CRACKS AND SPLITS IN FLOOR BEAMS. LAST FOUR FLOOR BEAMS, SHIMS LOOSE AT SOUTHEAST. OVER HEIGHT DAMAGE AT KNEE BRACES.  
 SUBSTRUCTURE: VERTICAL CRACKS IN BACKWALL AND BRIDGE SEAT AT EAST.

PICTURE: B678  
 15. SOFFIT.

## Previous Inspection Notes: 09/20/2021

MHC - inspection comments -  
 DECK: CRACKS AND SPLITS WITH MINOR WEAR. CONCRETE APPROACH SETTLEMENT AT WEST, ASPHALT RUTTED.  
 SUPERSTRUCTURE: STEEL CHORD CLAMPS REPLACED. FEW AREAS OF LIGHT DECAY AND SECTION LOSS. MINOR DEFLECTION UNDER LOAD. MINOR CRACKS AND SPLITS IN FLOOR BEAMS. LAST FOUR FLOOR BEAMS, SHIMS LOOSE AT SOUTHEAST. OVER HEIGHT DAMAGE AT KNEE BRACES.  
 SUBSTRUCTURE: VERTICAL CRACKS IN BACKWALL AND BRIDGE SEAT AT EAST.

PICTURE: B650  
 20. WEST APPROACH

## Approach and Roadway Notes:

GRAVEL AND ASPHALT SETTLED, AT APPROACHES.  
 TIMBER APPROACH RAIL AND POST.

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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		
09/26/2023	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	3 Tons PCO
09/20/2021	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	3 Tons PCO
09/04/2019	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	3 Tons PCO
09/13/2017	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input type="checkbox"/>	3 Tons PCO
10/24/2016	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
09/14/2015	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
10/24/2014	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
09/12/2013	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
10/03/2012	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
09/15/2011	NJL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
09/02/2010	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
11/17/2009	NJL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
09/16/2008	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
10/30/2007	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
09/07/2007	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
10/19/2006	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
12/13/2005	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
06/24/2004	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	7	6	N	<input checked="" type="checkbox"/>	3 Tons PCO
12/03/2003	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input checked="" type="checkbox"/>	3 Tons PCO
10/11/2002	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	7	7	N	<input checked="" type="checkbox"/>	3 Tons PCO
12/10/1999	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	5	6	N	<input checked="" type="checkbox"/>	6 Tons
05/11/1998	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	4	5	N	<input checked="" type="checkbox"/>	6 Tons
09/01/1997		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6	4	5	N	<input checked="" type="checkbox"/>	6 Tons
12/01/1996		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6	4	5	N	<input checked="" type="checkbox"/>	6 Tons
12/01/1995		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6	4	5	N	<input checked="" type="checkbox"/>	6 Tons
10/01/1994		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	5	5	N	<input checked="" type="checkbox"/>	6 Tons
04/01/1993		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	5	6	N	<input checked="" type="checkbox"/>	6 Tons

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