

Bridge Inspection Report

NBI Structure Number: 005500970009100

Cornish 097/091

Date of Inspection: 09/27/2023

FUCHY ROAD

Date Report Sent: 11/03/2023

over

Owner: Municipality

MILL BROOK

Bridge Inspection Group: B-Team

Blacksmith Shop Bridge

Bridge Maintenance Crew: OTHER

Recommended Postings:

Weight: **'Bridge Closed' and barricaded at both ends**

Weight Sign OK

Width: **Not Required**

Width Sign OK

Primary Height Sign Recommendation: *None*

Clearances: Over: 6.83
(Feet) Under: 0.00
Route: 7.50

Height Sign OK

Optional Centerline Height Sign Rec: *None*

Condition:

Red List Status: Historic or Bypassed

Deck: 7 Good

Superstructure: 6 Satisfactory

Substructure: 4 Poor

Culvert: N N/A (NBI)

Sufficiency Rating: -2%

Bridge Rail: N/A or not required

Rail Transition: N/A or not required

Bridge Approach Rail: N/A or not required

Approach Rail Ends: N/A or not required

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: 93.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 12.5 ft

Median: No median

Bridge Skew: 0.00°

Year Built/Rebuilt: 1881

Bridge Dimensions:

Length Maximum Span: 91.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 11.4 ft

Approach Roadway Width: 10.0 ft
(W/Shoulders)

Bridge Inspection Report

NBI Structure Number: 005500970009100

Cornish 097/091

Bridge Service:

Type of Service on Bridge: Pedestrian-bicycle

Type of Service Under: Waterway

Lanes on Bridge: 0

Lanes Under: 0

AADT: 90

Percent Trucks: 0%

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: Br eligible for NRHP

Traffic Direction: Highway traffic not carried

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: N Not applicable (NBI)

Underclearances: N Not applicable (NBI)

Approach Alignment: 0 Bridge closed

Structural Evaluation:

Channel/Channel Protection: 7 Minor Damage

Waterway Adequacy: 7 Above Minimum

Bridge Scour Critical Status: 8 Stable Above Footing

Riprap Condition: unknown

Debris Present: unknown

Channel Notes:

Bridge Inspection Report

NBI Structure Number: 005500970009100

Cornish 097/091

Element Details

No.	Description	Material Notes and Condition Notes:
31	Timber Deck	MINOR CRACKS AND SPLITS. AREAS OF DECAY UNDER ROOF LEAK AT WEST.
L 1140	Decay/Section Loss	
L 1160	Crack (Timber)	
L 1170	Split/Delamination (Timber)	
135	Timber Truss	SPLIT IN LOWER CHORD MEMBER AT SOUTHWEST. BOTTOM SECTION OF VERTICAL AT NORTHEAST SPLIT AND DECAYED. 1 BLOCK UNDER NORTHEAST BEARING HEAVILY DECAYED, OTHER 2 BLOCKS HAVE MINOR DECAY.
L 1140	Decay/Section Loss	
L 1170	Split/Delamination (Timber)	
156	Timber Floor Beam	FEW SPLIT OUTS AT DECK NAILING.
L 1170	Split/Delamination (Timber)	
217	Masonry Abutment	STONE WITH VOIDS AND SETTLEMENT. CONCRETE SEAT UNDERMINED AT SOUTHEAST CORNER, PEA STONE WASHED. UNDERMINED UNDER HALF OF SOUTHEAST BEARING. VOID NEAR NORTH BEARING UNDER EAST CONCRETE SEAT.
L 1640	Masonry Displacement	
L 4000	Settlement	
332	Timber Bridge Railing	TIMBER BARRICADE AND TIMBER RAILS HEAVILY DECAYED AT BOTH ENDS. APPROACH RAILS AT EAST BROKEN AND DOWN, CAUSED BY AT TREE FALLING.
L 1020	Connection	
L 1140	Decay/Section Loss	

Element States

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
31	Timber Deck	1,076	sq.ft	0%	100%	0%	0%
L 1140	Decay/Section Loss	10	sq.ft	0%	100%	0%	0%
L 1160	Crack (Timber)	10	sq.ft	0%	100%	0%	0%
L 1170	Split/Delamination (Timber)	10	sq.ft	0%	100%	0%	0%
135	Timber Truss	92	ft	0%	96%	4%	0%
L 1140	Decay/Section Loss	10	ft	0%	100%	0%	0%
L 1170	Split/Delamination (Timber)	10	ft	0%	100%	0%	0%
156	Timber Floor Beam	59	ft	0%	100%	0%	0%
L 1170	Split/Delamination (Timber)	10	ft	0%	100%	0%	0%
217	Masonry Abutment	26	ft	0%	75%	0%	25%
L 1640	Masonry Displacement	10	ft	0%	50%	0%	50%
L 4000	Settlement	10	ft	0%	100%	0%	0%
332	Timber Bridge Railing	184	ft	0%	75%	0%	25%
L 1020	Connection	10	ft	0%	0%	0%	100%
L 1140	Decay/Section Loss	10	ft	0%	0%	0%	100%

Bridge Inspection Report

NBI Structure Number: 005500970009100

Cornish 097/091

Bridge Notes:

Blacksmith Shop Covered Bridge or Kenyon Hill Covered Bridge
New Hampshire Covered Bridge Number 21
World Guide to Covered Bridges Number 29-10-01
CARRIES INTERMITTENT PEDESTRIAN TRAFFIC.

Inspection Notes: 09/27/2023

MTC - inspection comments -
DECK: MINOR DECAY, CRACKS AND SPLITS.
SUPERSTRUCTURE: SPLIT IN LOWER CHORD MEMBER AT SOUTHWEST. DECAY IN BEARING BLOCKS AT NORTHWEST. BOTTOM SECTION OF VERTICAL AT NORTHEAST SPLIT AND DECAYED. FEW SPLIT OUTS AT DECK NAILING ON FLOOR BEAMS.
OTHER ABUTMENT: STONE WITH VOIDS AND SETTLEMENT. CONCRETE SEAT UNDERMINED UNDER HALF OF BEARING AT SOUTHEAST.

PICTURES: B678.
17. SOUTH LOWER CHORD.

Previous Inspection Notes: 09/14/2021

MTC - inspection comments -
DECK: MINOR DECAY, CRACKS AND SPLITS.
SUPERSTRUCTURE: SPLIT IN LOWER CHORD MEMBER AT SOUTHWEST. DECAY IN BEARING BLOCKS AT NORTHWEST. BOTTOM SECTION OF VERTICAL AT NORTHEAST SPLIT AND DECAYED. FEW SPLIT OUTS AT DECK NAILING ON FLOOR BEAMS.
OTHER ABUTMENT: STONE WITH VOIDS AND SETTLEMENT. CONCRETE SEAT UNDERMINED UNDER HALF OF BEARING AT SOUTHEAST.

PICTURES: B649.
86. SOUTHEAST BEARING UNDERMINED.

Approach and Roadway Notes:

WALK TRAIL- WASHED AT ALL FOUR CORNERS.
APPROACH RAILS HEAVILY DECAYED. TREE DOWN AT EAST CAUSING BROKEN RAIL.

Bridge Inspection Report

NBI Structure Number: 005500970009100

Cornish 097/091

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		
09/27/2023	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	4	N	<input type="checkbox"/>	Bridge Closed
09/14/2021	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	4	N	<input type="checkbox"/>	Bridge Closed
09/12/2019	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	4	N	<input type="checkbox"/>	Bridge Closed
09/20/2017	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	4	N	<input type="checkbox"/>	Bridge Closed
09/15/2015	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	4	N	<input type="checkbox"/>	Bridge Closed
09/13/2013	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	4	N	<input type="checkbox"/>	Bridge Closed
09/15/2011	NJL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	6	N	<input type="checkbox"/>	Bridge Closed
04/26/2010	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	6	N	<input type="checkbox"/>	Bridge Closed
06/17/2008	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	6	N	<input type="checkbox"/>	Bridge Closed
10/19/2006	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	6	6	N	<input type="checkbox"/>	Bridge Closed
12/14/2004	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8	6	6	N	<input type="checkbox"/>	Bridge Closed
01/05/2001	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8	6	6	N	<input type="checkbox"/>	No Posting Req'd
01/06/1999	RLM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8	6	6	N	<input type="checkbox"/>	Bridge Closed
08/01/1996		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	1	1	N	<input type="checkbox"/>	Bridge Closed
10/01/1994		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	1	1	N	<input type="checkbox"/>	Bridge Closed
10/01/1986		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	6	6	N	<input type="checkbox"/>	No Posting Req'd

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