New Hampshire Department of Transportation	Existing Bridge Section Bureau of Bridge Design
Bridge Inspection Report NBI Structure Number: 013601420009200	Keene 142/092
Date of Inspection: 07/27/2021 Date Report Sent: 11/09/2021 Owner: Municipality Bridge Inspection Group: B-Team Bridge Maintenance Crew: OTHER	GEORGE STREET over BEAVER BROOK
Recommended Postings: Weight: E-2 SIGNS IN PLACE.	✓ Weight Sign OK
Width: Not Required	✓ Width Sign OK
Primary Height Sign Recommendation: <i>None</i> Optional Centerline Height Sign Rec: <i>None</i>	Clearances: Over: 99.99 (Feet) Under: 0.00 Route: 99.99
Condition: Red List Status: Municipal Redlist Deck: 4 Poor Superstructure: 4 Poor Substructure: 3 Serious Culvert: N N/A (NBI) Sufficiency Rating: 34 %	Structure Type and Materials:Number of Main Spans:1Number of Approach Spans:0Main Span Material and Design TypeConcrete/Slab
Bridge Rail: Substandard Rail Transition: Substandard Bridge Approach Rail: N/A or not required Approach Rail Ends: N/A or not required	NH Bridge Type: CS (Concrete Slab) Deck Type: Concrete-Cast-in-Place Wearing Surface: Bituminous Membrane: None Deck Protection: None Curb Reveal: Not Measured
Bridge Dimensions: Length Maximum Span: 13.0 ft Left Curb/Sidewalk Width: 6.0 ft	Plan Location: Total Bridge Length: 17.0 ft Right Curb/Sidewalk Width: 6.0 ft

Left Curb/Sidewalk Width: 6.0 ft Width Curb to Curb: 24.0 ft Approach Roadway Width: 24.0 ft (W/Shoulders)

NHDOT 008 Inspection

Total Bridge Width:

40.0 ft

Median: No median

Bridge Skew: 10.00°

Year Built/Rebuilt: 1923

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Bridge Service:

Type of Service on Bridge: Highway and Pedestrian

Type of Service Under: Waterway

Lanes on Bridge: 2

Lanes Under: 0

AADT: 426

Future AADT: 630

Federal or State Definition Bridge: NH-Definition Bridge National Highway System: Bridge does not carry NHS Roadway Functional Class: Urban, Local New Hampshire Bridge Tier: 5

Percent Trucks: 4%

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

Traffic Direction: 2-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: 4 Tolerable Underclearances: N Not applicable (NBI) Approach Alignment: 8 Equal Desirable Crit Structural Evaluation: 3 Intolerable - Correct Channel/Channel Protection: 4 Protection Undermined Waterway Adequacy: 6 Equal Minimum Bridge Scour Critical Status: 8 Stable Above Footing Riprap Condition: Poor Condition Debris Present: Debris Present Channel Notes: NORTHEAST RETAINING WALL HAS BEEN REPAIRED WITH GABIONS AND ADDITIONAL STONES. 3 FEET OF PENETRATION AT NORTHEAST. 4' PLUS AT NORTHWEST. CHANNEL SCOURED.

Year of AADT: 2020

Year of Future AADT: 2042

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Element Details No. Description Material Notes and Condition Notes: Reinforced Concrete Slab SEVERAL CRACKS IN ASPHALT. MINOR SPALLS AT CURBS. SOFFIT HAS DELAMINATIONS 38 AND HEAVY SPALLING IN AREAS WITH REBAR EXPOSED WITH SECTION LOSS. L 510 SEVERAL CRACKS IN ASPHALT. Wearing Surfaces L 1080 Delamination/Spall/Patched Area MINOR SPALLS AT CURBS. SOFFIT HAS DELAMINATIONS AND HEAVY SPALLING IN AREAS WITH REBAR EXPOSED. HEAVILY SPALLED AT EXTERIORS. L 1090 REBAR EXPOSED WITH SECTION LOSS. RUSTED OFF AND HANGING DOWN AT SOUTH Exposed Rebar EXTERIOR. SPALLS AT EAST ABUTMENT. BOTH ABUTMENTS UNDERMINED FULL LENGTH. HEAVY 215 **Reinforced Concrete Abutment** EROSION AT NORTH END OF WEST ABUTMENT. L 1080 SPALLS AT EAST ABUTMENT. Delamination/Spall/Patched Area L 1120 Efflorescence/Rust Staining LIGHT TO MODERATE EFFLORESCENCE AT EAST ABUTMENT. L 6000 Scour NORTHEAST RETAINING WALL HAS BEEN REPAIRED WITH GABIONS AND ADDITIONAL STONES. 3' OF PENETRATION AT NORTHEAST CORNER. EAST ABUTMENT FOOTING UNDERMINED WITH 2' OF PENETRATION FOR 20' FROM NORTH, 1' TO 16" OF PENETRATION FOR THE REST OF FOOTING, NO CHANGE SINCE LAST INSPECTION. WEST ABUTMENT FOOTING UNDERMINED WITH UP TO 16" OF PENETRATION FOR THE FIRST 15' FROM NORTH END, FILLED IN AT MIDSPAN AND UP TO 16" OF PENETRATION FOR 10' FROM THE SOUTH END. NORTHWEST EMBANKMENT EROSION EXPOSING NORTH END OF WEST ABUTMENT, 4' OF PENETRATION BEHIND ABUTMENT. VOID BEHIND ABUTMENT 4' HIGH X 5' WIDE WITH 4' OF PENETRATION, EROSION IS NOW UNDER ASPHALT SIDEWALK AND CHAIN LINK FENCE POST. TOWN HAS INSTALLED BARRICADES AROUND EROSION. EROSION CONTINUES UPSTREAM 20' COVERED BY HEAVY VEGETATION. SINKHOLES BEHIND SOUTHEAST WING AND DECK. 330 Metal Bridge Railing GALV. POST/ CHAIN LINK

UEST END OF CHAIN LINK FENCE TIPPED DOWN AT EAST BECAUSE OF EROSION UNDER POST. Distortion WEST END OF CHAIN LINK FENCE TIPPED DOWN AT EAST BECAUSE OF EROSION UNDER POST.

Element States

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
38	Reinforced Concrete Slab	678	sq.ft	31%	17%	52%	0%
510	Wearing Surfaces			83%	17%	0%	0%
- 1080	Delamination/Spall/Patched Area	350	sq.ft	0%	29%	71%	0%
- 1090	Exposed Rebar	100	sq.ft	0%	0%	100%	0%
215	Reinforced Concrete Abutment	85	ft	0%	77%	15%	8%
- 1080	Delamination/Spall/Patched Area	15	ft	0%	100%	0%	0%
1120	Efflorescence/Rust Staining	15	ft	0%	67%	33%	0%
6000	Scour	50	ft	0%	70%	16%	14%
330	Metal Bridge Railing	33	ft	70%	0%	0%	30%
L 1900	Distortion	10	ft	0%	0%	0%	100%

Bridge Notes:

CHANNEL, ABUTMENTS, RETAINING WALL UNDERMINED DURING OCT 05 FLOOD. NORTHEAST RETAINING WALL HAS BEEN REPAIRED WITH GABIONS AND ADDITIONAL STONES.

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PICTURE: B647

40. BARRICADES INSTALLED AT EMBANKMENT EROSION. 41. SINKHOLE AT SOUTHEAST WING/DECK END.

Previous Inspection Notes: 11/25/2020

MHC - inspection comments-

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PICTURE: B637

14. SOUTH ELEVATION

15. EROSION BEHIND WEST ABUTMENT AT NORTH END.

16. DELAMINATIONS AND SPALLS AT SOFFIT.

17. NORTH CHAINLINK FENCE TIPPED AT WEST.

Approach and Roadway Notes:

ASPHALT- HEAVILY CRACKED, POTHOLED, PATCHED AND SETTLED. EROSION UNDER SIDEWALK AT NORTHWEST DECK END, BARRICADES INSTALLED.

Unusual or experimental features:

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Keene 142/092

Inspection History

Inspection Inspector		Inspection Type(s) Performed			Major Element Ratings			Red	Desting		
Date	Initials	NBI	Elem	FCM	U/W	Deck	Super	Sub	Culvert	list Posting	
07/27/2021	MHC	✓	✓			4	4	3	N	✓	E-2
11/25/2020	MHC	✓	✓			4	4	3	N	✓	E-2
07/24/2019	MHC	>	✓			4	4	3	Ν	✓	E-2
11/28/2018	MHC	>	✓			4	4	3	Ν	✓	E-2
07/20/2017	MHC	>	✓			4	4	3	Ν	✓	E-2
11/21/2016	MTC	>	✓			4	4	3	Ν	✓	E-2
07/27/2015	MHC	>	✓			4	4	3	Ν	✓	E-2
10/29/2014	MHC	►	✓			4	4	3	Ν	✓	E-2
07/29/2013	MHC	>	✓			4	4	3	Ν	✓	E-2
11/26/2012	MHC	►	✓			4	4	4	Ν	✓	E-2
07/26/2011	NJL	►	✓			4	4	4	N	✓	E-2
09/24/2010	JEL	>	✓			4	4	4	Ν	✓	E-2
10/14/2009	NJL	>	✓			4	4	4	Ν	✓	E-2
08/11/2008	JEL	>	✓			4	4	4	Ν	✓	E-2
10/22/2007	JEL	✓	✓			4	4	4	N	✓	E-2
12/11/2006	FNM	>	✓			4	4	4	N	✓	E-2
10/15/2005	DEP	✓	✓			5	5	6	Ν		E-2
01/21/2004	FNM	✓	✓			4	4	6	Ν	✓	E-2
02/08/2002	JEL	>	✓			5	5	6	Ν		E-2
02/03/2000	JEL	>	✓			5	5	6	Ν		E-2
04/23/1998	JEL	>	✓			5	5	6	Ν		E-2
02/01/1996		>	✓			5	5	6	Ν		E-2
02/01/1993		>	✓			5	5	6	Ν		E-2

Inspection Frequency (mo.)							
NBI	Elem	FCM	U/W				
16	16	N/A	N/A				