

Bridge Inspection Report

Lebanon 044/104

Date of Inspection: 11/18/2015

I-89 NB

Date Report Sent: 1/19/2016

Over

Picture taken during inspection

CONNECTICUT RIVER, NECRR

Owner: NHDOT

Vietnam Veteran Memorial

Bridge also in: Hartford, Vermont

Interstate Bridge Number: 071

Recommended Postings:

Weight: No Posting Required

Weight Sign OK

Width: Not Required

Width Sign OK

Primary Height Sign Recommendation: *None*

Clearances: Over:

Height Signs OK

Optional Centerline Height Sign Rec: *None*

(Feet) Under: 38.98

Route:

Condition: State Redlist

Deck: 4 Poor

Superstructure: 5 Fair

Substructure: 5 Fair

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 6

Number of Approach Spans: 0

Main Span Material and Design Type

Steel Continuous Multiple Beam

Sufficiency Rating: 61.8%

NBI Status: Structurally Deficient

Bridge Rail: Substandard

NH Bridge Type: I Beams w/ Concrete Deck

Rail Transition: Substandard

Deck Type: Concrete, Cast in Place

Bridge Approach Rail: Substandard

Wearing Surface: Bituminous

Approach Rail Ends: Substandard

Membrane: Other

Deck Protection: None

Pavement thickness: Not Applicable

Curb Reveal: 8.5 in

Plan Location: 17-4-1

Bridge Dimensions:

Length Maximum Span: 150.0 ft

Total Bridge Length: 847.0 ft

Left Curb/Sidewalk Width: 0.7 ft

Right Curb/Sidewalk Width: 0.7 ft

Width Curb to Curb: 30.0 ft

Total Bridge Width: 35.8 ft

Approach Roadway Width (W/ Shoulders): 40.0 ft

Median: No median

Bridge Skew: 10.00 °

Bridge Service:

Type of Service on Bridge: Highway

Year Built: 1966

Type of Service under: Railroad-waterway

Year Rebuilt: Not Rebuilt

Lanes on bridge: 2

Detour Length: 1.0 mi

Lanes Under: NA

AADT: 18363

Percent Trucks: 6%

Year of AADT: 2014

Future AADT: 27177

Year of Future AADT: 2036

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Federal or State Definition Bridge: Fed. Definition Bridge
 Roadway Functional Class: Urban Interstate
 New Hampshire Highway System and Class: Interstate Highway
 Eligibility for the National Register of Historic Places: Not Eligible
 Traffic Direction: One-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Minimum Tolerable
 Underclearances: Equal Minimum Criteria
 Approach Alignment: Equal Desirable Criteria
 Structural Evaluation: Above Min. Tolerable
 Channel/Channel Protection: Bank Slumping
 Waterway Adequacy: Above Desirable Criteria
 Bridge Scour Critical Status: Critical during floods
 Riprap Condition: Good Condition
 Debris Present: Debris Present

*HEAVY BANK EROSION UPSTREAM. MINOR SCOUR AND DRIFT. TREE DEBRIS AT PIERS # 4 & 5.
 Scour Critical by CHa study, possible pile study?*

Date of Underwater Inspection: Nov. 2012

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
14	Concrete Deck - Protected w/ Membrane and Pavement	Severe	ASPHALT- CRACKED AND POTHOLED AT APPROACHES. POTHOLED AND PATCHED AT RELIEF JOINTS, PATCH POTHOLED AT RELIEF JOINT #2. CRACKED OVER RELIEF JOINTS AND LIFTED NEAR CURBS AT EAST. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL GRANITE SECTIONS LOOSE. MODERATE SPALLS AT WEST FASCIA. CURB STONES LOOSE AND ONE MISSING AT NORTHEAST, LOOSE AND TIPPED AT NORTHWEST.
107	Painted Steel Beam or Girder (Open Web)	Moderate	WF-BEAMS WITH WEB STIFFENERS, HAUNCHED AT PIERS MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. PEN SIZE HOLE IN GIRDER # 4 AT SPAN 3.
210	Reinforced Concrete Pier Wall	Moderate	FEW FINE CRACKS. MINOR SPALLS.
215	Reinforced Concrete Abutment	Moderate	LIGHT TO MODERATE CRACKS, DELAMINATIONS AND SPALLS. MODERATE SPALLS IN NORTHWEST WING. LARGE SPALLS IN NORTH OF BACKWALL. MODERATE SPALLS IN SOUTH FOOTER, WITH REBAR EXPOSED.
234	Reinforced Concrete Cap	Low	HAMMERHEADS LIGHT CRACK IN WEST END OF # 5. MINOR SPALLS IN TOP # 4. MINOR SPALL AT EAST END OF # 3.

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No.	Description	Env.	Material Notes and Condition Notes
304	Open Expansion Joint	Severe	** Finger Joint ** 15 MISSING OR BROKEN FINGERS ON NORTH JOINT, FEW CRACKED. BROKEN WELDS IN PASSING LANE CAUSING PLATE TO SLAP.
311	Moveable Bearing (roller, sliding, etc.)	Moderate	ROCKERS SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS # 4 & 5, TO THE NORTH AT PIERS # 1 & 2.
313	Fixed Bearing	Low	AT PIER #3 PAINT PEELING AND LIGHT RUST ON EXTERIORS.
334	Coated Metal Bridge Railing	Severe	** Steel Angle Rail** TRANSITION RAILS GALVANIZED RUSTED, PAINT FLAKED AND PEELED. MINOR SECTION LOSS. LIGHT TRANSITION RAIL DAMAGE. BOTTOM RAIL ANGLE BRACE BROKEN AT SOUTHEAST.
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	 TRANVERSE CRACKS, LIGHT EFFLORESCENCE THROUGHOUT SOFFIT. SPAN 1 HEAVY SPALLS IN BAY 2. DELAMINATION IN BAY 1,3 AND 4. SPAN 2 BAY 3 HAS 2 LARGE SPALLS. BAY 4 LARGE DELAMINATION. BAY 2 SMALL SPALL. SPAN 3 LARGE DELAMINATION IN BAY 4. SPAN 4 DELAMINATION IN BAYS 1 AND 4. SPALLS IN BAY 3. SPAN 5 DELAMINATION IN BAY 4.
363	Section Loss Condition Warning Flag	Moderate	Element record added 2011-12-29. LIGHT TO MODERATE SECTION LOSS UNDER RELIEF JOINTS IN SPANS # 3 & 4 TO ANGLE BRACING, STIFFENERS, GUSSET PLATES AND BOTTOMS OF WEB. MINOR SECTION LOSS TO UPPER AND LOWER FLANGES. SPAN # 3, GIRDER # 4, PITTED FULL LENGTH ALONG STIFFENER UNDER RELIEF JOINT. RUST AND SCALE BLEEDING THROUGH PAINT AT INTERIOR BAYS, MODERATE AT EXTERIORS. SMALL HOLE IN WEB, THE SIZE OF A PEN IN GIRDER # 4 UNDER RELIEF JOINT. LOWER LATERAL BRACING RUSTED OFF AT X BRACING ON GIRDER 5 UNDER RELIEF JOINT.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
14	Concrete Deck - Protected w/ Membran	Severe	30,107	(SF)	0 %	0 %	100 %	0 %	0 %
107	Painted Steel Beam or Girder (Open We	Moderate	4,209	(LF)	0 %	70 %	20 %	10 %	0 %
210	Reinforced Concrete Pier Wall	Moderate	131	(LF)	95 %	5 %	0 %	0 %	
215	Reinforced Concrete Abutment	Moderate	180	(LF)	8 %	80 %	7 %	5 %	
234	Reinforced Concrete Cap	Low	171	(LF)	89 %	11 %	0 %	0 %	
304	Open Expansion Joint	Severe	69	(LF)	55 %	25 %	20 %		
311	Moveable Bearing (roller, sliding, etc.)	Moderate	30	(EA)	60 %	40 %	0 %		
313	Fixed Bearing	Low	5	(EA)	60 %	40 %	0 %		
334	Coated Metal Bridge Railing	Severe	1,873	(LF)	0 %	0 %	100 %	0 %	0 %
359	Soffit of Conc Deck or Slab Condition W	Severe	1	(EA)	0 %	0 %	0 %	100 %	0 %
363	Section Loss Condition Warning Flag	Moderate	1	(EA)	0 %	100 %	0 %	0 %	

Bridge Notes:

Vietnam Veterans Memorial Bridge (1983, Chapter 362)
LIFT INSPECTION 5/07, 12/11, 12/29/2011, 6/13/2013, 6/17,2014. 5/27/2015.
REPAIRS TO RELIEF JOINTS, RUST REMOVED PRIMED AND PAINTED IN JUNE 2012.

Approach and Roadway Notes: PAVEMENT CRACKED, RUTTED , SETTLED AND POTHOLED AT NORTH APPROACH.
CURBS STONES SETTLED LOOSE AND MISSING.
W-BEAM APPROACH RAIL.

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Inspection History:

Inspection Date: 11/18/2015

Inspector: MHC

Deck: 4 Poor

Super: 5 Fair

Substr: 5 Fair

Culvert: N N/A (NBI)

Notes:

MHC - inspection comments -

DECK: ASPHALT- CRACKED IN AREAS. POTHOLED AT RELIEF JOINTS AND APPROACHES. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSE. JOINT- 15 MISSING FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN ALL BAYS AND IN ALL SPANS. MINOR LEAKING IN AREAS, MODERATE AT RELIEF JOINTS.

SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, RUST AND SCALE STARTING TO BLEED THROUGH. SMALL PEN SIZE HOLE IN GIRDER # 4 NEAR BOTTOM FLANGE UNDER RELIEF JOINT. LOWER LATERAL BRACING RUSTED OFF AT GIRDER # 5 IN SPAN 3.

SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. SPALLS IN TOP OF BACKWALLS. PIERS - FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #3 AND 4.

PICTURES: B546

22. GRANITE CURB LOOSE AND TIPPED AT NORTH END OF WEST CURB.

23. PATCH POTHOLED OVER RELIEF JOINT # 2.

Inspection Date: 05/27/2015

Inspector: MTC

Deck: 4 Poor

Super: 5 Fair

Substr: 5 Fair

Culvert: N N/A (NBI)

Notes:

MTC - inspection comments -

DECK: ASPHALT- CRACKED IN AREAS. POTHOLED AT RELIEF JOINTS AND APPROACHES. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSE. JOINT- 9 MISSING FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN ALL BAYS AND IN ALL SPANS. MINOR LEAKING IN AREAS, MODERATE AT RELIEF JOINTS.

SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, RUST AND SCALE STARTING TO BLEED THROUGH. SMALL PEN SIZE HOLE IN GIRDER 4 NEAR BOTTOM FLANGE UNDER RELIEF JOINT. LOWER LATERAL BRACING RUSTED OFF AT GIRDER 5 IN SPAN 3.

SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. SPALLS IN TOP OF BACKWALLS. HEAVY DEBRIS ON SEATS.

PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #3 AND 4.

PICTURES: B531. 23-33.

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Inspection History:

Inspection Date: 12/12/2014

Inspector: MTC

Deck: 4 Poor

Super: 5 Fair

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

Notes:

MTC - inspection comments -

DECK: ASPHALT- CRACKED IN AREAS. POTHOLED AT SECOND RELIEF JOINT AT EAST CURB. NORTH APPROACH CRACKED AND POTHOLED. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSE. JOINT- 15 MISSING FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN BAYS 2, 3, AND 4 IN ALL SPANS. MINOR LEAKING IN AREAS, MODERATE AT RELIEF JOINTS.

SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, RUST AND SCALE STARTING TO BLEED THROUGH.

SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. SPALLS IN TOP OF BACKWALLS. HEAVY DEBRIS ON SEATS.

PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

PICTURES: B518.

1. POTHOLED AT NORTH APPROACH.

Inspection Date: 06/17/2014

Inspector: MHC

Deck: 4 Poor

Super: 5 Fair

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

Notes:

MHC - inspection comments -

DECK: ASPHALT- CRACKED IN AREAS. RELIEF JOINTS CRACKED AND LIFTED AT EAST CURB. NORTH APPROACH CRACKED AND POTHOLED. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSE. JOINT- 14 MISSING FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN BAYS 2, 3, AND 4 IN ALL SPANS. MINOR LEAKING IN AREAS, MODERATE AT RELIEF JOINTS.

SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, RUST AND SCALE STARTING TO BLEED THROUGH.

SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. SPALLS IN TOP OF BACKWALLS. HEAVY DEBRIS ON SEATS.

PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

PICTURES: B500

73 - 87 SEE PIC LIST FOR DESCRIPTIONS.

Inspection Date: 11/18/2013

Inspector: MTC

Deck: 4 Poor

Super: 5 Fair

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

Notes:

MTC inspection comments -

DECK: ASPHALT- CRACKED IN AREAS. RELIEF JOINTS CRACKED AND LIFTED AT EAST CURB. NORTH APPROACH CRACKED AND POTHOLED. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSE. JOINT- THIRTEEN MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN BAYS 2, 3, AND 4 IN ALL SPANS.

SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, JUNE 2012.

SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. HEAVY DEBRIS ON SEATS.

PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

PICTURES: B486-45. CURBSTONE LOOSE AND MISSING AT NORTHEAST.

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Inspection History:

Inspection Date: 07/31/2013

Inspector: MHC

Deck: 4 Poor

Notes:

Super: 5 Fair

MHC inspection comments -
 POST FLOOD INSPECTION - TREE DEBRIS AT PIER # 4. ALL ELEMENTS APPEAR STABLE. DECK: ASPHALT- CRACKED IN AREAS. NORTH APPROACH POTHOLED. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSENED. JOINT- TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN BAYS 2, 3, AND 4 IN ALL SPANS. SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, JUNE 2012. SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALL'S. HEAVY DEBRIS ON SEATS. PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

Inspection Date: 06/13/2013

Inspector: MHC

Deck: 4 Poor

Notes:

Super: 5 Fair

MHC - inspection comments -
 DECK: ASPHALT- CRACKED IN AREAS. NORTH APPROACH POTHOLED. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSENED. JOINT- TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, SPALLS, AREAS OF LEAKING AND RUST STAINING AT SOFFIT. SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, AND GIRDER FLANGES IN NORTH SPAN. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, LIGHT RUST LEACHING THROUGH. BEARINGS AT BOTH ABUTMENTS HEAVILY RUSTED. SUBSTRUCTURE: FINE AND LIGHT CRACKS, DELAMINATIONS, AND SPALLS IN BACKWALLS. HEAVY DEBRIS ON SEATS. FEW FINE CRACKS, LIGHT SPALLS AND MINOR DELAMINATIONS AT PIERS.

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

PICTURES: B467 # 15 - 32
 SEE PIC LIST FOR DESCRIPTIONS.

Inspection Date: 03/18/2013

Inspector: MTC

Deck: 4 Poor

Notes:

Super: 5 Fair

MTC inspection comments -
 DECK: ASPHALT- CRAKED IN AREAS. NORTH APPROACH POTHOLED. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSENED. JOINT- TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN BAYS 2, 3, AND 4 IN ALL SPANS. SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, JUNE 2012. SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. HEAVY DEBRIS ON SEATS. PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

PICTURES: B454.
 94. POTHOLED AT NORTH APPROACH.
 95. PATCHED AREA OVER RELIEF JOINT CRACKED.

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Inspection History:

Inspection Date: 11/27/2012	Inspector: JEL	Deck: 4 Poor
Notes: <i>NJL inspection comments - REFER TO STEARNS ENGINEERING UNDERWATER INSPECTION REPORT 11/27/2012</i>		Super: 5 Fair
		Substr: 6 Satisfactory
		Culvert: N N/A (NBI)

Inspection Date: 11/16/2012	Inspector: MTC	Deck: 4 Poor
Notes: <i>MTC inspection comments - DECK: ASPHALT- CRAKED IN AREAS CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSE. JOINT- TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. CRACKS, DELAMINATION, AND SPALLS IN BAYS 3,4 IN ALL SPANS. (SEE 5/21/12 INSPECTION REPORT.) SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. REPAIRS MADE TO RELIEF JOINT, RUST REMOVED PRIMED AND PAINTED, JUNE 2012. SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. HEAVY DEBRIS ON SEATS. PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4. PICTURES: B446. 72. PATCHED AREA OVER RELIEF JOINT.</i>		Super: 5 Fair
		Substr: 6 Satisfactory
		Culvert: N N/A (NBI)

Inspection Date: 05/21/2012	Inspector: NJL	Deck: 4 Poor
Notes: <i>NJL inspection comments - DECK: ASPHALT- CRACKED OVER RELIEF JOINTS. FEW CRACKS IN PAVEMENT OVER DELAMINATIONS. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL GRANITE SECTIONS LOOSE. CURB STONES LOOSE AT NORTH. RAIL- RUSTED, MINOR SECTION LOSS. PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE. BOTTOM ANGLE BRACE BROKEN. JOINT- TWELVE BROKEN FINGERS AT NORTH EXPANSION JOINT, WITH ONE CRACKED. SOFFIT- CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS AT BAYS 2,3 AND 4 THROUGH MOST SPANS. SPALLS WITH REBAR EXPOSED IN AREAS. SOME LIGHT LEAKING EVIDENT AT CURBLINE, RELIEF JOINTS AND IN FEW AREAS IN NORTH SPAN. SEVERAL FORMS IN PLACE FROM DECK REPAIRS. SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. SEVERAL LOOSE BRACING FRAME BOLTS. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. DEBRIS BUILD-UP AT ABUTMENT BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS #1 #2 #4 AND #5. SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. MODERATE SPALLS IN SOUTH FOOTER. HEAVY DEBRIS ON SEATS. PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4. PICTURE DESCRIPTION IN STRUCTURE NOTES.</i>		Super: 5 Fair
		Substr: 6 Satisfactory
		Culvert: N N/A (NBI)

Bridge Inspection Report

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Inspection History:

Inspection Date: 12/29/2011

Inspector: NJL

Deck: 5 Fair

Notes:

Super: 5 Fair

NJL inspection comments -

Substr: 6 Satisfactory

DECK: ASPHALT- NEW. CURBS- CRACKS AND LIGHT TO MODERATE SPALLS WITH SEVERAL STONES LOOSENED. RAIL- RUSTED, MINOR SECTION LOSS. PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE. BOTTOM ANGLE BRACE BROKEN. JOINT- TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. SOFFIT- CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS. SOME LIGHT LEAKING EVIDENT AT CURBLINE AND RELIEF JOINTS AND IN FEW AREAS IN NORTH SPAN. SEVERAL FORMS IN PLACE FROM DECK REPAIRS.

Culvert: N N/A (NBI)

SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. SEVERAL LOOSE BRACING FRAME BOLTS. HEAVY SECTION LOSS IN ANGLE BRACING AND LATERAL BRACING CONNECTION PLATES TO GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. DEBRIS BUILD-UP AT ABUTMENT BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS #1 #2 #4 AND #5. SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. MODERATE SPALLS IN SOUTH FOOTER. HEAVY DEBRIS ON SEATS.

PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

PICTURES: B417.

53 THRU 72 OF ANGLE BRACING, LATERAL BRACING CONNECTIONS, STIFFNERS, SCALE ON LOWER WEBS IN SPAN # 3 AND SPAN # 4 UNDER RELIEF JOINTS.

Inspection Date: 12/12/2011

Inspector: MTC

Deck: 5 Fair

Notes:

Super: 7 Good

MTC: inspection comments -

Substr: 6 Satisfactory

RAIL: RUSTED, MINOR SECTION LOSS. PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE. BOTTOM ANGLE BRACE BROKEN.

Culvert: N N/A (NBI)

DECK: CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS. SOME LIGHT LEAKING EVIDENT AT CURBLINE AND RELIEF JOINTS, AND IN FEW AREAS IN NORTH SPAN. SEVERAL FORMS IN PLACE FROM DECK REPAIRS. ASPHALT-NEW. CRACKS AND LIGHT TO MODERATE SPALLS IN CURBS WITH SEVERAL STONES LOOSENED. TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT.

SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. SEVERAL LOOSE BRACING FRAME BOLTS. HEAVY SECTION LOSS IN ANGLE BRACING AND GUSSET AT EXTERIOR GIRDERS UNDER RELIEF JOINT IN SPAN #3 AND SPAN #4. DEBRIS BUILD-UP AT ABUTMENT BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS #1 #2 #4 AND #5.

SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. MODERATE SPALLS IN SOUTH FOOTER. HEAVY DEBRIS ON SEATS.

PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4. HEAVY DEBRIS BUILD-UP AT PIER #4.

PICTURES: B416.

- 52. SOUTH ABUTMENT DEBRIS BUILD-UP.*
- 53. SPALL WITH REBAR EXPOSED AT SPAN 1 BAY 2.*
- 54. CROSS BRACING RUSTED AT SPAN #1 BAY #1*
- 55. DELAMINATION AND SPALL AT SPAN 2 BAY 3*
- 56. CROSS BRACING RUSTED AT SPAN #3 BAY #4*
- 57. DELAMINATION AND SPALL AT SPAN #5 BAY #4.*

Bridge Inspection Report

Lebanon 044/104

Inspection History:

Inspection Date: 08/29/2011	Inspector: MTC	Deck: 5 Fair
Notes:		Super: 7 Good
MTC: inspection comments -	* HIGH WATER INSPECTION:8/29/11 DEBRIS AT #4	Substr: 6 Satisfactory
PIER.*		Culvert: N N/A (NBI)
RAIL: RUSTED, MINOR SECTION LOSS. PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE.		
DECK: CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS. SOME LIGHT LEAKING EVIDENT AT CURBLINE AND RELIEF JOINTS, AND IN FEW AREAS IN NORTH SPAN. SEVERAL FORMS IN PLACE FROM DECK REPAIRS. ASPHALT- WHEEL RUTS AND SHORT, LIGHT CRACKS IN PAVEMENT WITH SEVERAL SMALL AREAS DELAMINATING. ONE QUICK SET PATCH BREAKING UP OVER SPAN 3. CRACKS AND LIGHT TO MODERATE SPALLS IN CURBS WITH SEVERAL STONES LOOSENED. TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. FEW DRAINS PLUGGED.		
SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. SEVERAL LOOSE BRACING FRAME BOLTS. HEAVY SECTION LOSS IN ANGLE BRACING AND GUSSET AT EXTERIOR GIRDERS UNDER RELIEF JOINT IN SPAN #3. DEBRIS BUILD-UP AT ABUTMENT BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS #4 AND #5.		
SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. MODERATE SPALLS IN SOUTH FOOTER. HEAVY DEBRIS ON SEATS.		
PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.		
PICTURES: B408.		
1.DEBRIS AT PIER #4.		
2.NORTH VIEW OF HIGH WATER.		

Inspection Date: 06/13/2011	Inspector: MTC	Deck: 5 Fair
Notes:		Super: 7 Good
MTC: inspection comments -		Substr: 6 Satisfactory
RAIL: RUSTED, MINOR SECTION LOSS. PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE.		Culvert: N N/A (NBI)
DECK: CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS. SOME LIGHT LEAKING EVIDENT AT CURBLINE AND RELIEF JOINTS, AND IN FEW AREAS IN NORTH SPAN. SEVERAL FORMS IN PLACE FROM DECK REPAIRS. ASPHALT- WHEEL RUTS AND SHORT, LIGHT CRACKS IN PAVEMENT WITH SEVERAL SMALL AREAS DELAMINATING. ONE QUICK SET PATCH BREAKING UP OVER SPAN 3. CRACKS AND LIGHT TO MODERATE SPALLS IN CURBS WITH SEVERAL STONES LOOSENED. TWELVE MISSING OR BROKEN FINGERS AT NORTH EXPANSION JOINT. FEW DRAINS PLUGGED.		
SUPERSTRUCTURE: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. SEVERAL LOOSE BRACING FRAME BOLTS. HEAVY SECTION LOSS IN ANGLE BRACING AND GUSSET AT EXTERIOR GIRDERS UNDER RELIEF JOINT IN SPAN #3. DEBRIS BUILD-UP AT ABUTMENT BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS #4 AND #5.		
SUBSTRUCTURE: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. MODERATE SPALLS IN SOUTH FOOTER. HEAVY DEBRIS ON SEATS.		
PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.		
PICTURES: B399-3.		
3.MODERATE DELAMINATIONS AT NORTH NEAR FINGER JOINT TYPICAL OF SEVERAL AREAS.		

Bridge Inspection Report

Lebanon 044/104

Inspection History:

Inspection Date: 03/19/2009

Inspector: FNM

Deck: 5 Fair

Notes:

Super: 7 Good

FNM inspection comments -

Substr: 6 Satisfactory

RAIL: RUSTED, MINOR SECTION LOSS. PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE.

Culvert: N N/A (NBI)

DECK: CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS. SOME LIGHT LEAKING EVIDENT AT CURBLINE AND RELIEF JOINTS, AND IN FEW AREAS IN NORTH SPAN. SEVERAL FORMS IN PLACE FROM DECK REPAIRS. ASPHALT- WHEEL RUTS AND SHORT, LIGHT CRACKS IN PAVEMENT WITH SEVERAL SMALL AREAS DELAMINATING. ONE QUICK SET PATCH BREAKING UP OVER SPAN 3. CRACKS AND LIGHT TO MODERATE SPALLS IN CURBS WITH SEVERAL STONES LOOSEENED. SIX BROKEN FINGERS AT NORTH EXPANSION JOINT. FEW DRAINS PLUGGED.

SUPER: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. SEVERAL LOOSE BRACING FRAME BOLTS. HEAVY SECTION LOSS IN ANGLE BRACING AND GUSSET AT EXTERIOR GIRDERS UNDER RELIEF JOINT IN SPAN #3. DEBRIS BUILD-UP AT ABUTMENT BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS #4 AND #5.

SUB: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. MODERATE SPALLS IN SOUTH FOOTER. HEAVY DEBRIS ON SEATS. PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

PICTURES: B360-

12. QUICK SET PATCH BREAKING UP OVER SPAN 3.

13. FINGER CRACKED AT NORTH EXPANSION JOINT. (SIX MISSING)

Inspection Date: 05/08/2007

Inspector: BEP

Deck: 5 Fair

Notes:

Super: 7 Good

BEP inspection comments -

Substr: 6 Satisfactory

RAIL: RUSTED, PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE.

Culvert: N N/A (NBI)

DECK: CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS. SOME LIGHT LEAKING EVIDENT AT CURBLINE AND RELIEF JOINTS, AND IN FEW AREAS IN NORTH SPAN. SEVERAL FORMS IN PLACE FROM DECK REPAIRS. WHEEL RUTS AND SHORT, LIGHT CRACKS IN PAVEMENT WITH SEVERAL SMALL AREAS DELAMINATING. CRACKS AND LIGHT TO MODERATE SPALLS IN CURBS WITH SEVERAL STONES LOOSEENED. SIX BROKEN FINGERS AT NORTH EXPANSION JOINT. FEW DRAINS PLUGGED.

SUPER: MINOR TO LIGHT RUST. SOME HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND ON EXTERIOR GIRDERS IN NORTH SPAN. PAINT CRACKED AND PEELING. SEVERAL LOOSE BRACING FRAME BOLTS. HEAVY SECTION LOSS IN ANGLE BRACING AND GUSSET AT EXTERIOR GIRDERS UNDER RELIEF JOINT IN SPAN #3. DEBRIS BUILD-UP AT ABUTMENT BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS. INTERIOR ROCKERS AT NORTH LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS. ROCKERS TIPPED BACK TO NEAR FULL EXPANSION AT NORTH AND TIPPED SLIGHTLY TO SOUTH AT PIERS #4 AND #5.

SUB: FINE AND LIGHT CRACKS. LIGHT DELAMINATIONS. LIGHT SPALLS IN TOP OF BACKWALLS. MODERATE SPALLS IN SOUTH FOOTER. HEAVY DEBRIS ON SEATS. PIERS: FEW FINE CRACKS. LIGHT CRACK IN DOWNSTREAM END OF CAP #5. MINOR SPALLS IN TOP OF #4.

PICTURE A220-

20: HEAVY DEBRIS AT INTERIOR BEARINGS ON SOUTH ABUTMENT.

21: TYPICAL OF DECK DELAMINATIONS.

22: SPALL AND FORMWORK UNDER PATCHED AREA IN DECK.

23: TYPICAL OF HEAVY RUSTING UNDER RELIEF JOINT IN SPAN #3. BRACING GUSSET RUSTED THRU AT UPSTREAM GIRDER.

24: HEAVY DEBRIS ON INTERIOR BEARINGS AT NORTH ABUTMENT WITH ROCKERS LIFTED SLIGHTLY DUE TO PACK RUST AND DEBRIS.

Bridge Inspection Report

Lebanon 044/104

Inspection History:

Inspection Date: 09/17/2003	Inspector: BEP	Deck: 5 Fair Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 07/29/2004 09:41:20 BEP inspection comments - RAIL: RUSTED, PAINT FLAKED AND PEELED. LIGHT TRANSITION RAIL DAMAGE. DECK: CRACKS, LIGHT EFFLORESCENCE AND STAINS. MODERATE TO HEAVY DELAMINATIONS. SO</i>		
Inspection Date: 06/12/2001	Inspector: BEP	Deck: 5 Fair Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 10/15/2002 14:31:19 BEP inspection comments - RAIL: MODERATE RUSTING. PAINT POOR. NORTH TRANSITIONS DAMAGED. DECK: CRACKS, LIGHT EFFLORESCENCE, STAINS AND SPALLS WITH AREAS OF LIGHT TO MODERATE L</i>		
Inspection Date: 08/09/1999	Inspector: WBL	Deck: 5 Fair Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: <i>LIFT INSPECTION STEEL ANGLE RAIL: MODERATE RUSTING. PAINT POOR. NORTH TRANSITIONS DAMAGED. DECK: CRACKS, MEDIUM SPALLS AND DELAMINATIONS. SEVERAL FORMS IN PLACE FROM DECK REPAIRS. MODERATE LEAKING IN AREAS WITH RUST STAINING EVIDENT. FINGER JOIN</i>		
Inspection Date: 05/01/1997	Inspector: Not Available	Deck: 5 Fair Super: 7 Good Substr: 7 Good Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 12-23-98 08:05:16</i>		
Inspection Date: 04/01/1995	Inspector: Not Available	Deck: 6 Satisfactory Super: 8 Very Good Substr: 7 Good Culvert: N N/A (NBI)
Notes:		
Inspection Date: 07/01/1993	Inspector: Not Available	Deck: 6 Satisfactory Super: 8 Very Good Substr: 7 Good Culvert: N N/A (NBI)
Notes:		

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