

Bridge Inspection Report

Lebanon 044/103

Date of Inspection: 11/18/2015

I-89 SB

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: 37.99

Route:

Condition: State Redlist

Structure Type and Materials:

Deck: 5 Fair

Number of Spans Main Unit: 6

Superstructure: 4 Poor

Number of Approach Spans: 0

Substructure: 6 Satisfactory

Main Span Material and Design Type

Culvert: N N/A (NBI)

Steel Continuous Multiple Beam

Sufficiency Rating: 49.9%

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: Meets Standards

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: 846.0 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: 19363

Percent Trucks: 9%

Year of AADT: 2013

Future AADT: 28657

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: Minimum Tolerable
 Channel/Channel Protection: Bank Slumping
 Waterway Adequacy: Above Desirable Criteria
 Bridge Scour Critical Status: Critical during floods
 Riprap Condition: Good Condition
 Debris Present: No Debris Present

*LIGHT BANK EROSION. SCOUR: REFER TO MOST RECENT DIVE REPORT.
 Scour Critical by CHA study. Pile study? TREE DEBRIS AT PIER # 4.*

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- SEAM AT CENTERLINE. DEICING SYSTEM INSTALLED, CRACK SEALED. LOOSENED CURBSTONES. MORTAR CRACKED AND MISSING AT MOST JOINTS. CURBSTONES CRACKED, TIPPED AND MOVED AT NORTHWEST. CONCRETE CORE SAMPLES DRILLED AT SOUTHEAST.
107	Painted Steel Beam or Girder (Open Web)	Moderate	PAINT CHAULKING, CRACKED WITH LIGHT FLAKING AND PEELING. LIGHT RUST; HEAVY RUST UNDER EXPANSION, RELIEF JOINTS AND IN AREAS ON EXTERIOR FLANGES. HEAVY RUST AND PITTING AT BEAMS #4 & #5 AT BOTTOM OF WEBS IN SPAN #3 AND BEAMS #1, #4, & #5 AT SPAN #4 UNDER EXPANSION JOINT. 16" VERTICAL CRACK ADJACENT TO 1 1/2 BY 2 1/2 HOLE IN WEB OF GIRDER #1 IN SPAN #3. REPAIRED WITH A PLATES AND BOLTED AT WEB AND BOTTOM FLANGE BY B.O.B.M.
210	Reinforced Concrete Pier Wall	Moderate	FEW FINE CRACKS AND MINOR POP OUT SPALLS.
215	Reinforced Concrete Abutment	Moderate	LIGHT TO MODERATE CRACKS, DELAMINATIONS, HOLLOW SOUNDING AREAS, PATCHES CRACKED. MINOR TO MODERATE SPALLS AT NORTH ABUTMENT. MINOR AND MODERATE SPALLS IN BACKWALLS. LARGE SPALLS, REBAR EXPOSED, IN SOUTH BACKWALLS.
234	Reinforced Concrete Cap	Low	HAMMERHEADS FEW FINE CRACKS; MINOR DELAMINATION IN NORTHWEST CORNER #2.

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No.	Description	Env.	Material Notes and Condition Notes
304	Open Expansion Joint	Severe	WELDED REPAIRS BROKEN AND SLAPPING AT SOUTH, 22 MISSING FINGERS. SOUTH DECK END SETTLED. HOLED AREA AT SOUTHEAST APPROACH. JOINT WELDS BROKEN, SLAPPING AND HOLLOW SOUNDING, 2 FINGERS MISSING AT NORTH. UNDERSIDE RUSTED.
311	Moveable Bearing (roller, sliding, etc.)	Moderate	ROCKERS HEAVY RUST; SECTION LOSS ON ANCHOR BOLTS, BEARING # 4, AT SOUTH END AND NORTH. BEARING #3 LIFTED 1/4 INCH FROM DIRT BUILD UP AT SOUTH. PAINT PEELING, RUST AT ALL ABUTMENT BEARINGS. SEVERAL ANCHOR BOLTS APPEAR LIFTED AT PIERS.
313	Fixed Bearing	Low	AT CENTER PIER MINOR DETERIORATION AT EXTERIOR.
334	Coated Metal Bridge Railing	Severe	** Steel Angle Rail ** PAINTED ANGLE / POSTS WITH GALVN. TRANSITIONS MODERATE RUST. LIGHT DAMAGE.
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	LIGHT TO MODERATE CRACKS, DELAMINATIONS AND LEAKING IN ALL BAYS, ALL SPANS. DELAMINATIONS AND SPALL, REBAR EXPOSED IN SPANS #2, 3 & 4 BAYS #1 & 2, SPAN # 5 BAYS # 2 & 3, SPAN # 6 BAY # 3. FEW TRANSVERSE CRACKS, MINOR DELAMINATIONS, MINOR SPALLS AT EXTERIOR SOFFIT. CURB FASCIAS CRACKED, RUST STAINED, MINOR SPALLS AT EAST, MODERATE TO LARGE SPALLS AT WEST. BOTH RELIEF JOINTS LEAKING AT EXTERIORS. RELIEF JOINT IN SPAN 3 LEAKING FULL LENGTH.
363	Section Loss Condition Warning Flag	Severe	INTERIOR BOTTOM FLANGES RUSTED UNDER LEAKING DECK RELIEF JOINTS WITH MEASUREMENTS AS FOLLOWS - 7/8 INCH GIRDER #1, 7/8" GIRDER # 4, SPAN #3, AND AND 15/16 INCH GIRDER #5, SPAN #4. 16" VERTICAL CRACK ADJACENT TO 1 1/2 BY 2 1/2 HOLE IN WEB OF GIRDER #1 IN SPAN #3, UNDER RELIEF JOINT. REPAIRED BY B.O.B.M. WITH PLATES AT WEB AND BOTTOM FLANGE.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
14	Concrete Deck - Protected w/ Membran	Severe	30,290	(SF)	0 %	100 %	0 %	0 %	0 %
107	Painted Steel Beam or Girder (Open We	Moderate	4,209	(LF)	0 %	70 %	10 %	20 %	0 %
210	Reinforced Concrete Pier Wall	Moderate	131	(LF)	94 %	6 %	0 %	0 %	
215	Reinforced Concrete Abutment	Moderate	180	(LF)	14 %	70 %	16 %	0 %	
234	Reinforced Concrete Cap	Low	171	(LF)	93 %	7 %	0 %	0 %	
304	Open Expansion Joint	Severe	69	(LF)	0 %	60 %	40 %		
311	Moveable Bearing (roller, sliding, etc.)	Moderate	30	(EA)	60 %	35 %	5 %		
313	Fixed Bearing	Low	5	(EA)	90 %	10 %	0 %		
334	Coated Metal Bridge Railing	Severe	1,873	(LF)	0 %	0 %	80 %	20 %	0 %
359	Soffit of Conc Deck or Slab Condition W	Severe	1	(EA)	0 %	0 %	0 %	100 %	0 %
363	Section Loss Condition Warning Flag	Severe	1	(EA)	0 %	100 %	0 %	0 %	

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Bridge Notes:

Vietnam Veterans Memorial Bridge (1983, Chapter 362) DEICING SYSTEM INSTALLED IN WEARING SURFACE AT CENTERLINE.
LIFT INSPECTION 9/03.
LIFT INSPECTION 5/07.
LIFT INSPECTION 12/27/11 ADDED TO STATE REDLIST.
B.O.B.M MADE REPAIRS TO RELIEF JOINTS AND REMOVED RUST AND PRIMED AND PAINTED RUSTED BEAMS UNDER RELIEF JOINTS (JUNE OF 2012).
LIFT INSPECTION 6/16/2014, 5/28/2015.

Approach and Roadway Notes: ASPHALT- LIGHT CRACKS.
W-BEAM RAIL- LIGHT DAMAGE.

Inspection History:

Inspection Date: 11/18/2015

Inspector: MTC

Deck: 5 Fair

Super: 4 Poor

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

Notes:

MTC - inspection comments -
BRIDGE RAIL: MODERATE RUST.
DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS AND SPALLS AT SOFFIT. CURB FASCIAS CRACKED AND SPALLED. LIGHT LEAKING UNDER RELIEF JOINT #4. MODERATE LEAKING UNDER RELIEF JOINT IN SPAN 3. FINGER JOINT AT SOUTH IS MISSING 22 FINGERS AND 2 MISSING AT NORTH. SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS LIFTED AT SEVERAL PIER BEARINGS. SUBSTRUCTURE: LIGHT TO MODERATE CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALLS. HEAVY DEBRIS BUILDUP AT BRIDGE SEATS. LIGHT CRACKS, MINOR SPALLS AT PIERS.

PICTURES: B546.
21. SPALL AT NORTHEAST ABUTMENT.

Inspection Date: 05/28/2015

Inspector: MHC

Deck: 5 Fair

Super: 4 Poor

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

Notes:

MHC - inspection comments -
BRIDGE RAIL: MODERATE RUST.
DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS AND SPALLS AT SOFFIT. CURB FASCIAS CRACKED AND SPALLED. LIGHT LEAKING UNDER RELIEF JOINT #4. MODERATE LEAKING UNDER RELIEF JOINT IN SPAN 3. FINGER JOINT AT SOUTH IS MISSING 21 FINGERS AND 3 MISSING AT NORTH. SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS LIFTED AT SEVERAL PIER BEARINGS. SUBSTRUCTURE: LIGHT TO MODERATE CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALLS. HEAVY DEBRIS BUILDUP AT BRIDGE SEATS. LIGHT CRACKS, MINOR SPALLS AT PIERS.

PICTURES: B531, 34 - 44
SEE PIC LIST FOR DETAILS

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Inspection History:

Inspection Date: 12/12/2014	Inspector: MHC	Deck: 5 Fair
Notes: <i>MHC - inspection comments - BRIDGE RAIL: MODERATE RUST. DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS AND SPALLS SOFFIT. LIGHT LEAKING UNDER RELIEF JOINT IN SPAN 4. MODERATE LEAKING UNDER RELIEF JOINT IN SPAN 3. FINGER JOINT AT SOUTH IS MISSING 18 FINGERS AND 3 MISSING AT NORTH. SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS LIFTED AT SEVERAL PIER BEARINGS. SUBSTRUCTURE: LIGHT TO MODERATE CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALLS. LIGHT CRACKS, MINOR SPALLS AT PIERS.</i>	Super: 4 Poor	Substr: 6 Satisfactory
		Culvert: N N/A (NBI)

PICTURES: B518
2. SOUTH JOINT.

Inspection Date: 06/16/2014	Inspector: MTC	Deck: 5 Fair
Notes: <i>MTC - inspection comments - BRIDGE RAIL: MODERATE RUST. DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS AND SPALLS SOFFIT. LIGHT LEAKING UNDER RELIEF JOINT IN SPAN 4. MODERATE LEAKING UNDER RELIEF JOINT IN SPAN 3. FINGER JOINT AT SOUTH IS MISSING 18 FINGERS AND 2 MISSING AT NORTH. SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS LIFTED AT SEVERAL PIER BEARINGS. SUBSTRUCTURE: LIGHT TO MODERATE CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALLS. LIGHT CRACKS, MINOR SPALLS AT PIERS.</i>	Super: 4 Poor	Substr: 6 Satisfactory
		Culvert: N N/A (NBI)

PICTURES: B500. 67-72.

Inspection Date: 11/18/2013	Inspector: MTC	Deck: 5 Fair
Notes: <i>MTC - inspection comments - BRIDGE RAIL: MODERATE RUST. DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS, MINOR SPALLS, AND LIGHT LEAKING AT SOFFIT. SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS LIFTED AT SEVERAL PIER BEARINGS. SUBSTRUCTURE: LIGHT TO MODERATE CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALLS. LIGHT CRACKS, MINOR SPALLS AT PIERS.</i>	Super: 4 Poor	Substr: 6 Satisfactory
		Culvert: N N/A (NBI)

PICTURES: B486-44. CRACKS AND SPALLS AT NORTHWEST WING.

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Inspection History:

Inspection Date: 07/31/2013	Inspector: MHC	Deck: 5 Fair
Notes:		Super: 4 Poor
<i>MHC - inspection comments -</i>		Substr: 6 Satisfactory
POST FLOOD INSPECTION - ALL ELEMENTS APPEAR STABLE.		Culvert: N N/A (NBI)
BRIDGE RAIL: MODERATE RUST.		
DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS, MINOR SPALLS, AND LIGHT LEAKING AT SOFFIT.		
SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS LIFTED AT SEVERAL PIER BEARINGS.		
SUBSTRUCTURE: MINOR TO LIGHT CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALL'S. LIGHT CRACKS, MINOR SPALLS AT PIERS.		

Inspection Date: 06/12/2013	Inspector: MTC	Deck: 5 Fair
Notes:		Super: 4 Poor
<i>MTC - inspection comments -</i>		Substr: 5 Fair
BRIDGE RAIL: MODERATE RUST.		Culvert: N N/A (NBI)
DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS, MINOR SPALLS, AND LIGHT LEAKING AT SOFFIT. LARGE SPALL IN SPAN 2 BAY 2 4' X 3'X 4" IN DEPTH WITH REBAR EXPOSED. RELIEF JOINTS SEALED, LEAKING AT JOINT 1 IN BAY 1 AND EXTERIOR AT WEST.		
SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS AT ABUTMENTS. BOLTS LIFTED AT SEVERAL PIER BEARINGS.		
SUBSTRUCTURE: MINOR TO LIGHT CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALLS. LIGHT CRACKS, MINOR SPALLS AT PIERS.		

PICTURES: B467. 1-14 (SEE PICTURE LIST)

Inspection Date: 03/18/2013	Inspector: MHC	Deck: 5 Fair
Notes:		Super: 4 Poor
<i>MHC - inspection comments -</i>		Substr: 6 Satisfactory
BRIDGE RAIL: MODERATE RUST.		Culvert: N N/A (NBI)
DECK: ASPHALT SEALED AT CENTERLINE. GRANITE FACING CRACKED AND TIPPED AT NORTHWEST. MORTAR CRACKED, AND MISSING AT MOST JOINTS. CRACKS, DELAMINATIONS, MINOR SPALLS, AND LIGHT LEAKING AT SOFFIT.		
SUPERSTRUCTURE: PAINT CRACKED AND FLAKING. HEAVY RUST UNDER EXPANSION JOINTS, RELIEF JOINTS, AND EXTERIOR FLANGES. HEAVY RUST AT MOVABLE BEARINGS, ANCHOR BOLTS LIFTED AT SEVERAL PIER BEARINGS.		
SUBSTRUCTURE: MINOR TO LIGHT CRACKS, DELAMINATIONS, AND SPALLS AT ABUTMENTS AND BACKWALLS. LIGHT CRACKS, MINOR SPALLS AT PIERS.		

PICTURES: B454
92. SPALLS BEHIND GRANITE CURBSTONES.
93. GRANITE CURBSTONES CRACKED AND TIPPED AT NORTHWEST.

Inspection Date: 11/27/2012	Inspector: JEL	Deck: 5 Fair
Notes:		Super: 4 Poor
<i>JEL inspection comments -</i>		Substr: 6 Satisfactory
REFER TO STEARNS ENGINEERING UNDERWATER INSPECTIONS 11/27/12		Culvert: N N/A (NBI)

Bridge Inspection Report

Lebanon 044/103

Inspection History:

Inspection Date: 11/16/2012

Inspector: MTC

Deck: 5 Fair

Notes:

Super: 4 Poor

MTC inspection comments -

Substr: 6 Satisfactory

DECK: ASPHALT- NEW 2012 CURBS- LIGHT TO MODERATE SPALLS, REBAR EXPOSED. SOFFIT- FINE CRACKS, LIGHT LEAKING, MEDIUM SPALLS AND DELAMINATIONS. RELIEF JOINTS REPAIRED AND SEALED AT CURBS. FINGERS JOINT HAS SEVENTEEN MISSING ON SOUTH EXPANSION JOINT, ONE MISSING FINGER ON NORTH.

Culvert: N N/A (NBI)

SUPERSTRUCTURE: PAINT CRACKED WITH LIGHT FLAKING AND PEELING. LIGHT RUST; HEAVY RUST UNDER EXPANSION AND RELIEF JOINTS AND IN AREAS ON EXTERIOR FLANGES REPAIRED AND PRIMED AND PAINT. HEAVY RUST AND PITTING AT BEAMS #4 & #5 AT BOTTOM OF WEBS IN SPAN #3 AND BEAMS #1, #4, & #5 AT SPAN #4 UNDER EXPANSION JOINT. 16" VERTICAL CRACK ADJACENT TO 1 1/2 BY 2 1/2 HOLE IN WEB OF GIRDER #1 IN SPAN #3. REPAIRED WITH A PLATES AND BOLTED AT WEB AND BOTTOM FLANGE BY B.O.B.M.

SUBSTRUCTURE: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS. LIGHT AND MEDIUM SPALLS IN BACKWALLS. VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS. FEW FINE CRACKS AND MINOR SCOURING AT WATERLINE AND SMALL POP OUTS AT CONSTRUCTION JOINTS ON PIERS.

Inspection Date: 05/24/2012

Inspector: MTC

Deck: 5 Fair

Notes:

Super: 4 Poor

MTC inspection comments -

Substr: 6 Satisfactory

DECK: SEAM AT CENTERLINE FOR DEICING SYSTEM INSTALLED AT CENTERLINE SEALED. CURBS LIGHT TO MODERATE SPALLS, REBAR EXPOSED. SEVERAL DECK DRAINS PLUGGED WITH DEBRIS. RAIL MODERATE RUST, PAINT POOR, LIGHT DAMAGE. SOFFIT- FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. MODERATE LEAKING AT RELIEF JOINTS. FINGER JOINT SEVERAL WELDED REPAIRS MADE TO FINGERS ON SOUTH, FIFTEEN MISSING AND ONE AT NORTH. PATCHED AREA AT SOUTHEAST APPROACH JOINT LOUD AND HOLLOW SOUNDING.

Culvert: N N/A (NBI)

SUPERSTRUCTURE: LIGHT RUST; HEAVY UNDER RELIEF AND EXPANSION JOINTS. FEW AREAS MINOR SECTION LOSS ON EXTERIOR GIRDER FLANGES WITH HEAVY LOSS ON BRACING GUSSETS AND MEMBERS UNDER RELIEF JOINTS. SMALL AREAS OF HEAVY SECTION LOSS IN WEBS AT WELDED GUSSET PLATE BRACING ATTACHMENTS UNDER RELIEF JOINTS. 16" VERTICAL CRACK ADJACENT TO 1 1/2 BY 2 1/2 HOLE IN WEB OF GIRDER #1 IN SPAN #3 (REPAIRED BY BOBM, BOLTED WEB AND FLANGE PLATES). NEARLY HOLED THROUGH AT SPAN #3 BEAM #5 AT BOTTOM OF WEB NEAR FLANGE. INTERIOR EDGE OF BOTTOM FLANGE RUSTED TO 7/8 INCH IN SAME AREA. BEARINGS- HEAVY RUST ON SOUTH WITH SECTION LOSS ON ANCHOR BOLTS. MODERATE RUST AT NORTH. SOUTH ROCKER #3 LIFTED UP TO 1/4 INCH DUE TO DEBRIS BUILD UP.

SUBSTRUCTURE: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS. LIGHT AND MEDIUM SPALLS IN. VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS

PICTURE: B431.

- 18. DELAMINATION IN BAY 3 SPAN 5.*
- 19. CURB SPALLED AT WEST.*
- 20. DELAMINATION IN SPAN 2 BAY 1.*
- 21. SPALL WITH REBAR EXPOSED SPAN 2 BAY 2.*
- 22. BEARINGS # 3,4 DEBRIS COVERED ON SOUTH.*
- 23. JOINT AT SOUTH BROKEN AND SLAPPING.*
- 24. ASPHALT POTHOLED AT SOUTH IN SPAN 3.*

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Inspection History:

Inspection Date: 03/15/2012

Inspector: MTC

Deck: 5 Fair

Notes:

Super: 4 Poor

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

MTC inspection comments -

DECK: ASPHALT- SEVERAL CRACKS, LIGHT DEPRESSIONS AND HOLLOW SOUNDING IN AREAS. CRACKED AND DEPRESSED AREA IN SPAN FOUR NEAR CENTERLINE. CURBS- LIGHT TO MODERATE SPALLS, REBAR EXPOSED. HEAVY DIRT AND DEBRIS BUILD UP AT CURBS WITH LOOSENED CURBSTONES. SEVERAL DECK DRAINS PLUGGED WITH DEBRIS. DEICING SYSTEM INSTALLED AT CENTERLINE. SOFFIT- FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. MODERATE LEAKING AT RELIEF JOINTS AT CURBLINES. FINGERS JOINT HAS SEVENTEEN MISSING ON SOUTH EXPANSION JOINT, ONE MISSING FINGER ON NORTH.

SUPERSTRUCTURE:(SEE 12/27/12 REPORT) LIGHT RUST; HEAVY UNDER RELIEF AND EXPANSION JOINTS. FEW AREAS MINOR SECTION LOSS ON EXTERIOR GIRDER FLANGES WITH HEAVY LOSS ON BRACING GUSSETS AND MEMBERS UNDER RELIEF JOINTS. SMALL AREAS OF HEAVY SECTION LOSS IN WEBS AT WELDED GUSSET PLATE BRACING ATTACHMENTS UNDER RELIEF JOINTS. ONE INCH HOLE IN WEB OF GIRDER #1, SPAN #3 AND NEARLY HOLED THROUGH IN SPAN 5 AND INTERIOR EDGES OF BOTTOM FLANGES RUSTED TO 7/8 INCH IN SAME AREA. BEARINGS- HEAVY RUST ON SOUTH WITH SECTION LOSS ON ANCHOR BOLTS. MODERATE RUST AT NORTH. SOUTH ROCKER #3 LIFTED UP TO 1/4 INCH DUE TO DIRT BUILD UP.

SUBSTRUCTURE: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS. LIGHT AND MEDIUM SPALLS IN BACKWALLS. VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS. FEW FINE CRACKS AND MINOR SCOURING AT WATERLINE AND SMALL POP OUTS AT CONSTRUCTION JOINTS ON PIERS.

PICTURE: B423.

38. TRAVEL LANE IN SOUTHBOUND LANE SETTLED.

Bridge Inspection Report

Lebanon 044/103

Inspection History:

Inspection Date: 12/27/2011

Inspector: MTC

Deck: 5 Fair

Notes:

Super: 4 Poor

Substr: 6 Satisfactory

Culvert: N N/A (NBI)

MTC inspection comments -

DECK:SEAM AT CENTERLINE FOR DEICING SYSTEM INSTALLED AT CENTERLINE SEALED.CURBS LIGHT TO MODERATE SPALLS, REBAR EXPOSED.SEVERAL DECK DRAINS PLUGGED WITH DEBRIS. RAIL MODERATE RUST, PAINT POOR, LIGHT DAMAGE. SOFFIT- FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. MODERATE LEAKING AT RELIEF JOINTS. FINGER JOINT SEVERAL WELDED REPAIRS MADE TO FINGERS ON SOUTH, FIFTEEN MISSING AND ONE AT NORTH. PATCHED AREA AT SOUTHEAST APPROACH JOINT LOUD AND HOLLOW SOUNDING.

SUPERSTRUCTURE: LIGHT RUST; HEAVY UNDER RELIEF AND EXPANSION JOINTS. FEW AREAS MINOR SECTION LOSS ON EXTEROIR GIRDER FLANGES WITH HEAVY LOSS ON BRACING GUSSETS AND MEMBERS UNDER RELIEF JOINTS. SMALL AREAS OF HEAVY SECTION LOSS IN WEBS AT WELDED GUSSET PLATE BRACING ATTACHMENTS UNDER RELIEF JOINTS. 16" VERTICAL CRACK ADJACENT TO 1 1/2 BY 2 1/2 HOLE IN WEB OF GIRDER #1 IN SPAN #3 (REPAIRED BY BOBM, BOLTED WEB AND FLANGE PLATES). NEARLY HOLED THROUGH AT SPAN #3 BEAM #5 AT BOTTOM OF WEB NEAR FLANGE. INTERIOR EDGE OF BOTTOM FLANGE RUSTED TO 7/8 INCH IN SAME AREA. BEARINGS- HEAVY RUST ON SOUTH WITH SECTION LOSS ON ANCHOR BOLTS. MODERATE RUST AT NORTH. SOUTH ROCKER #3 LIFTED UP TO 1/4 INCH DUE TO DEBRIS BUILD UP. SUBSTRUCTURE: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS. LIGHT AND MEDIUM SPALLS IN.VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS

PICTURE: B417.

36.BEAM #4 SPAN 3 RUST AND PITTING.

37.BEAM 5 SPAN 3 EXTERIOR SIDE.

38.BEAM 5 SPAN 3 INTERIOR RUSTED AND PITTING.

39.REPAIRS AT BEAM 1 SPAN 3 EXTERIOR WEB.

40.REPAIRS AT BEAM 1 SPAN 3 INTERIOR WEB.

41.REPAIRS AT BEAM 1 SPAN 3 INTERIOR WEB.

42.BEAM 1 SPAN 4 EXTERIOR WEB RUSTED AND PITTING.

43.BEAM 1 SPAN 3 INTERIOR WEB SCALING

44.BEAM 4 SPAN 4 SCALING.

45.BEAM 5 SPAN 4 RUSTED AND PITTING.

46.BEAM 5 SPAN 4 RUSTED AND PITTING.

Bridge Inspection Report

Lebanon 044/103

Inspection History:

Inspection Date: 12/14/2011

Inspector: NJL

Deck: 5 Fair

Notes:

Super: 5 Fair

NJL inspection comments -

Substr: 6 Satisfactory

DECK: ASPHALT- RESURFACED, SEAM AT CENTERLINE. DEICING SYSTEM INSTALLED AT CENTERLINE, CRACK SEALED. CURBS- LIGHT TO MODERATE SPALLS, REBAR EXPOSED. LOOSENED CURBSTONES FULL LENGTH AT EAST AND WEST. CONCRETE CORE SAMPLES DRILLED AT SOUTHEAST. SEVERAL DECK DRAINS PLUGGED WITH DEBRIS. STEEL ANGLE RAIL- MODERATE RUST, PAINT POOR, LIGHT DAMAGE. SOFFIT- FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. MODERATE LEAKING AT RELIEF JOINTS AT CURBLINES. JOINTS- SEVERAL WELDED REPAIRS MADE TO FINGERS ON SOUTH, FIFTEEN MISSING. PATCHED AREA AT SOUTHEAST APPROACH; JOINT LOUD AND HOLLOW SOUNDING. ONE FINGER MISSING ON NORTH. RUSTED.

Culvert: N N/A (NBI)

SUPERSTRUCTURE: LIGHT RUST; HEAVY UNDER RELIEF AND EXPANSION JOINTS. FEW AREAS MINOR SECTION LOSS ON EXTERIOR GIRDER FLANGES WITH HEAVY LOSS ON BRACING GUSSETS AND MEMBERS UNDER RELIEF JOINTS. SMALL AREAS OF HEAVY SECTION LOSS IN WEBS AT WELDED GUSSET PLATE BRACING ATTACHMENTS UNDER RELIEF JOINTS. 16" VERTICAL CRACK ADJACENT TO 1 1/2 BY 2 1/2 HOLE IN WEB OF GIRDER #1 IN SPAN #3, UNDER RELIEF JOINT AND NEARLY HOLED THROUGH IN SPAN #5, INTERIOR EDGES OF BOTTOM FLANGES RUSTED TO 7/8 INCH IN SAME AREA. BEARINGS- HEAVY RUST ON SOUTH WITH SECTION LOSS ON ANCHOR BOLTS. MODERATE RUST AT NORTH. SOUTH ROCKER #3 LIFTED UP TO 1/4 INCH DUE TO DIRT BUILD UP.

SUBSTRUCTURE: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS. LIGHT AND MEDIUM SPALLS IN BACKWALLS. VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS. FEW FINE CRACKS AND MINOR SCOURING AT WATERLINE AND SMALL POP OUTS AT CONSTRUCTION JOINTS ON PIERS.

PICTURE: B416.

64. BEARING #4 AT NORTH ABUTMENT, NUT RUSTED AND BOLT LIFTED.

65. CROSS BRACING RUSTED AND HOLED AT #5 GIRDER, SPAN #4 UNDER RELIEF JOINT.

66. 16" VERTICAL CRACK ADJACENT TO 1 1/2 BY 2 1/2 HOLE IN WEB OF GIRDER #1 IN SPAN #3.

67. INSIDE VIEW OF CRACK AND HOLE IN GIRDER #1, SPAN #3, UNDER RELIEF JOINT.

Bridge Inspection Report

Lebanon 044/103

Inspection History:

Inspection Date: 06/13/2011

Inspector: NJL

Deck: 5 Fair

Notes:

Super: 6 Satisfactory

NJL inspection comments -

Substr: 6 Satisfactory

DECK: ASPHALT- SEVERAL CRACKS, LIGHT DEPRESSIONS AND HOLLOW SOUNDING IN AREAS. CRACKED AND DEPRESSED AREA IN SPAN FOUR NEAR CENTERLINE. CURBS- LIGHT TO MODERATE SPALLS, REBAR EXPOSED. HEAVY DIRT AND DEBRIS BUILD UP AT CURBS WITH LOOSENED CURBSTONES. SEVERAL DECK DRAINS PLUGGED WITH DEBRIS. DEICING SYSTEM INSTALLED AT CENTERLINE. STEEL ANGLE RAIL- MODERATE RUST, PAINT POOR, LIGHT DAMAGE. SOFFIT- FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. MODERATE LEAKING AT RELIEF JOINTS AT CURBLINES. JOINTS- WELDED REPAIRS TO FINGERS WITH THIRTEEN MISSING ON SOUTH EXPANSION JOINT, ONE MISSING FINGER ON NORTH.

Culvert: N N/A (NBI)

SUPERSTRUCTURE: LIGHT RUST; HEAVY UNDER RELIEF AND EXPANSION JOINTS. FEW AREAS MINOR SECTION LOSS ON EXTEROIR GIRDER FLANGES WITH HEAVY LOSS ON BRACING GUSSETS AND MEMBERS UNDER RELIEF JOINTS. SMALL AREAS OF HEAVY SECTION LOSS IN WEBS AT WELDED GUSSET PLATE BRACING ATTACHMENTS UNDER RELIEF JOINTS. ONE INCH HOLE IN WEB OF GIRDER #1, SPAN #3 AND NEARLY HOLED THROUGH IN SPAN 5 AND INTERIOR EDGES OF BOTTOM FLANGES RUSTED TO 7/8 INCH IN SAME AREA. BEARINGS- HEAVY RUST ON SOUTH WITH SECTION LOSS ON ANCHOR BOLTS. MODERATE RUST AT NORTH. SOUTH ROCKER #3 LIFTED UP TO 1/4 INCH DUE TO DIRT BUILD UP.

SUBSTRUCTURE: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS. LIGHT AND MEDIUM SPALLS IN BACKWALLS. VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS. FEW FINE CRACKS AND MINOR SCOURING AT WATERLINE AND SMALL POP OUTS AT CONSTRUCTION JOINTS ON PIERS.

PICTURE: B399-

02. NORTHWEST APPROACH IN SOUTHBOUND LANE, CRACKED SETTLED AND PATCHED.

Inspection Date: 03/19/2009

Inspector: JEL

Deck: 5 Fair

Notes:

Super: 6 Satisfactory

JEL inspection comments -

Substr: 6 Satisfactory

STEEL ANGLE RAIL: MODERATE RUST; PAINT POOR; LIGHT DAMAGE.

Culvert: N N/A (NBI)

DECK: FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. CURBS CRACKED WITH MODERATE SPALLS AND LOOSE CURBSTONES. DIRT AND DEBRIS BUILD UP AT CURBS. MODERATE LEAKING AT RELIEF JOINTS AT CURBLINES. WELDED REPAIRS TO FINGERS WITH NINE MISSING ON SOUTH EXPANSION JOINT, ONE MISSING FINGER ON NORTH. FEW CRACKS IN PAVEMENT; SOME SEALED. SEVERAL LOOSENED CURB STONES. MANY SCUPPERS PLUGGED. CRACKED AND DEPRESSED AREA NEAR CENTERLINE SPAN FIVE.

SUPER: LIGHT RUST; HEAVY UNDER RELIEF AND EXPANSION JOINTS. FEW AREAS MINOR SECTION LOSS ON EXTEROIR GIRDER FLANGES WITH HEAVY LOSS ON BRACING GUSSETS AND MEMBERS UNDER RELIEF JOINTS. SMALL AREAS OF HEAVY SECTION LOSS IN WEBS AT WELDED GUSSET PLATE BRACING ATTACHMENTS UNDER RELIEF JOINTS; ONE INCH HOLE IN WEB OF GIRDER #1, SPAN #3 AND NEARLY HOLED THROUGH IN SPAN 5 AND INTERIOR EDGES OF BOTTOM FLANGES RUSTED TO 7/8 INCH IN SAME AREA. HEAVY RUST ON SOUTH BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS; MODERATE RUST ON NORTH BEARINGS. SOUTH ROCKER #3 LIFTED UP TO 1/4 INCH DUE TO DIRT BUILD UP.

SUB: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS; LIGHT AND MEDIUM SPALLS IN BACKWALLS. VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS. FEW FINE CRACKS AND MINOR SCOURING AT WATERLINE AND SMALL POP OUTS AT CONSTRUCTION JOINTS ON PIERS.

PICTURES B360-

10: CRACKED AND DEPRESSED AREA NEAR CENTERLINE SPAN FIVE. DRIVING LANE

11: NINE FINGER JOINTS MISSING AT SOUTH DECK END.

12: DIRT AND DEBRIS BUILD UP AT CURBS, TYPICAL.

Bridge Inspection Report

Lebanon 044/103

Inspection History:

Inspection Date: 05/07/2007	Inspector: WBL	Deck: 5 Fair Super: 6 Satisfactory Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: WBL inspection comments - STEEL ANGLE RAIL: MODERATE RUST; PAINT POOR; LIGHT DAMAGE. DECK: FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. CURBS CRACKED WITH MODERATE SPALLS AND LOOSE CURBSTONES. MODERATE LEAKING AT RELIEF JOINTS AT CURBLINES. WELDED REPAIRS TO FINGERS WITH FOUR MISSING ON SOUTH EXPANSION JOINT, CRACKED FINGER ON NORTH. FEW CRACKS IN PAVEMENT; SOME SEALED. SEVERAL LOOSENED CURB STONES. MANY SCUPPERS PLUGGED. SUPER: LIGHT RUST; HEAVY UNDER RELIEF AND EXPANSION JOINTS. FEW AREAS MINOR SECTION LOSS ON EXTERIOR GIRDER FLANGES WITH HEAVY LOSS ON BRACING GUSSETS AND MEMBERS UNDER RELIEF JOINTS. SMALL AREAS OF HEAVY SECTION LOSS IN WEBS AT WELDED GUSSET PLATE BRACING ATTACHMENTS UNDER RELIEF JOINTS; ONE INCH HOLE IN WEB OF GIRDER #1, SPAN #3 AND NEARLY HOLED THROUGH IN SPAN 5 AND INTERIOR EDGES OF BOTTOM FLANGES RUSTED TO 7/8 INCH IN SAME AREA. HEAVY RUST ON SOUTH BEARINGS WITH SECTION LOSS ON ANCHOR BOLTS; MODERATE RUST ON NORTH BEARINGS. SOUTH ROCKER #3 LIFTED UP TO 1/4 INCH DUE TO DIRT BUILD UP. SUB: FINE AND LIGHT CRACKS, MINOR AND LIGHT DELAMINATIONS, PATCHES CRACKED IN ABUTMENTS, SEATS, BACKWALLS AND WINGS; LIGHT AND MEDIUM SPALLS IN BACKWALLS. VERY HEAVY DIRT AND DEBRIS BUILD-UP ON SEATS. FEW FINE CRACKS AND MINOR SCOURING AT WATERLINE AND SMALL POP OUTS AT CONSTRUCTION JOINTS ON PIERS. PICTURES A220- 10: TYPICAL HEAVY DIRT BUILD UP AT NORTH ABUTMENT BEARINGS. 11: HEAVY SECTION LOSS TO BRACING FRAME AND GUSSET PLATE, GIRDER #5, SPAN #4 UNDER RELIEF JOINT. 12: GIRDER #1 WEB HOLED AT BRACING FRAME GUSSET PLATE ATTACHMENT, SPAN #3 AT RELIEF JOINT. 13: TYPICAL MODERATE DELAMINATIONS IN UNDERSIDE OF DECK. 14: VERY HEAVY DIRT BUILD UP WITH BEARING #3 LIFTED 1/4 +/- INCH. TYPICAL MODERATE SPALLS IN BACKWALLS.		
Inspection Date: 09/17/2003	Inspector: WBL	Deck: 5 Fair Super: 6 Satisfactory Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 07/29/2004 09:41:19 WBL inspection comments - STEEL ANGLE RAIL: MODERATE RUST; PAINT POOR; LIGHT DAMAGE. DECK: FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. CURBS CRACKED WITH MODERATE SPALLS AND L		
Inspection Date: 06/12/2001	Inspector: WBL	Deck: 5 Fair Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 10/15/2002 14:31:19 WBL inspection comments - WALK AROUND INSPECTION STEEL ANGLE RAIL: MODERATE RUST; PAINT POOR; LIGHT DAMAGE. DECK: FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. CURBS CRACK		
Inspection Date: 08/10/1999	Inspector: BEP	Deck: 5 Fair Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 03-24-2000 15:57:18 STEEL ANGLE RAIL: MODERATE RUST; PAINT POOR; LIGHT DAMAGE. DECK: FINE CRACKS, LIGHT LEAKING, MEDIUM DELAMINATIONS. CURBS CRACKED WITH LIGHT SPALLS AND LOOSE CURBSTONES. MODERATE		

Bridge Inspection Report

Lebanon 044/103

Inspection History:

Inspection Date: 05/01/1997	Inspector: Not Available	Deck: 5 Fair
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 12-23-98 08:05:16</i>		Super: 7 Good
		Substr: 7 Good
		Culvert: N N/A (NBI)
Inspection Date: 04/01/1995	Inspector: Not Available	Deck: 6 Satisfactory
Notes:		Super: 8 Very Good
		Substr: 7 Good
		Culvert: N N/A (NBI)
Inspection Date: 07/01/1993	Inspector: Not Available	Deck: 6 Satisfactory
Notes:		Super: 8 Very Good
		Substr: 7 Good
		Culvert: N N/A (NBI)

Bridge Lighting and Utilities: *DEICING SYSTEM INSTALLED IN PAVEMENT AT CENTERLINE.*

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