

US Route 2 (Rogers' Rangers) Bridge -Lancaster, NH – Guildhall, VT
NHDOT Bridge No. 111/129 – Project No. 16155
Inspection Photos



Photo 1: Deck Soffit Transverse Cracking



Photo 2: Typical Deck Soffit Concrete Spall

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Photo 3: Deck Concrete Spall at Intermediate Floorbeam



Photo 4: Deck Concrete Spall with Exposed Reinforcement and Moisture

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Photo 5: Wet Deck Soffit



Photo 6: Typical Wearing Surface Transverse Cracking

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Photo 7: Wearing Surface Cracking

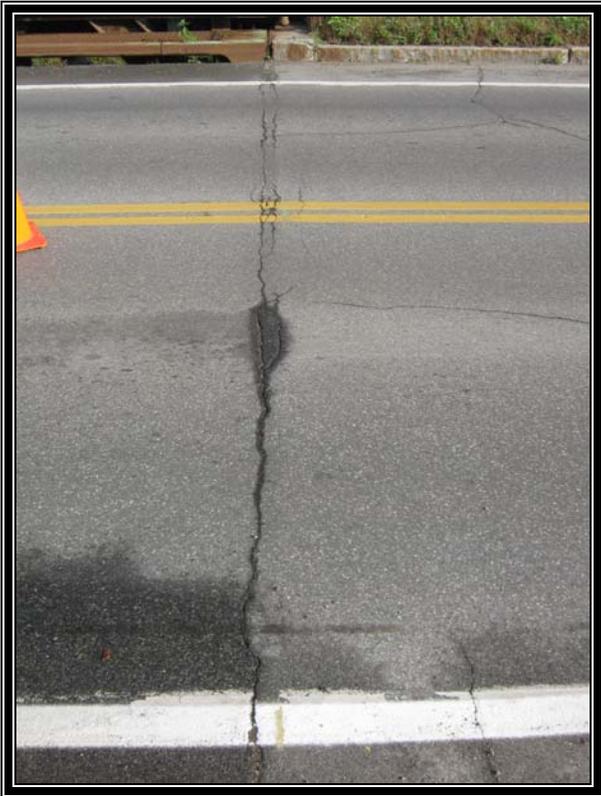


Photo 8: Wearing Surface Cracking at End of Deck (New Hampshire Abutment)

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Photo 9: Failed Compression Seal Hanging Below the Deck



Photo 10: Open Grid Safety Curb

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Photo 11: Open Grid Safety Curb Distribution Bar Deterioration

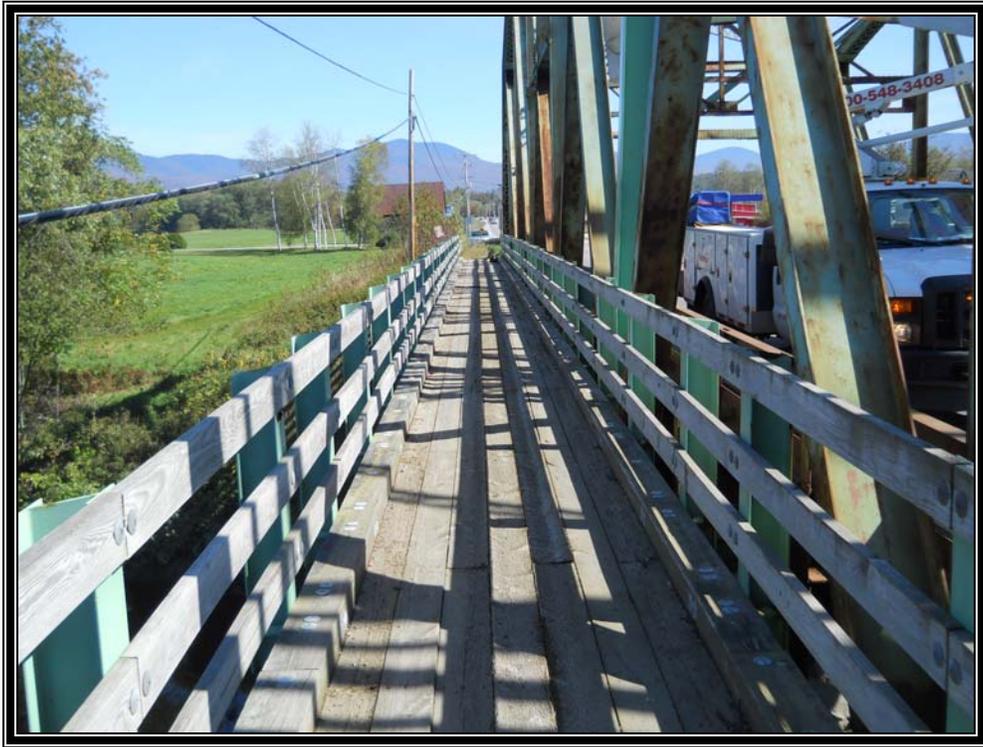


Photo 12: Cantilevered Sidewalk Weathered Running Boards

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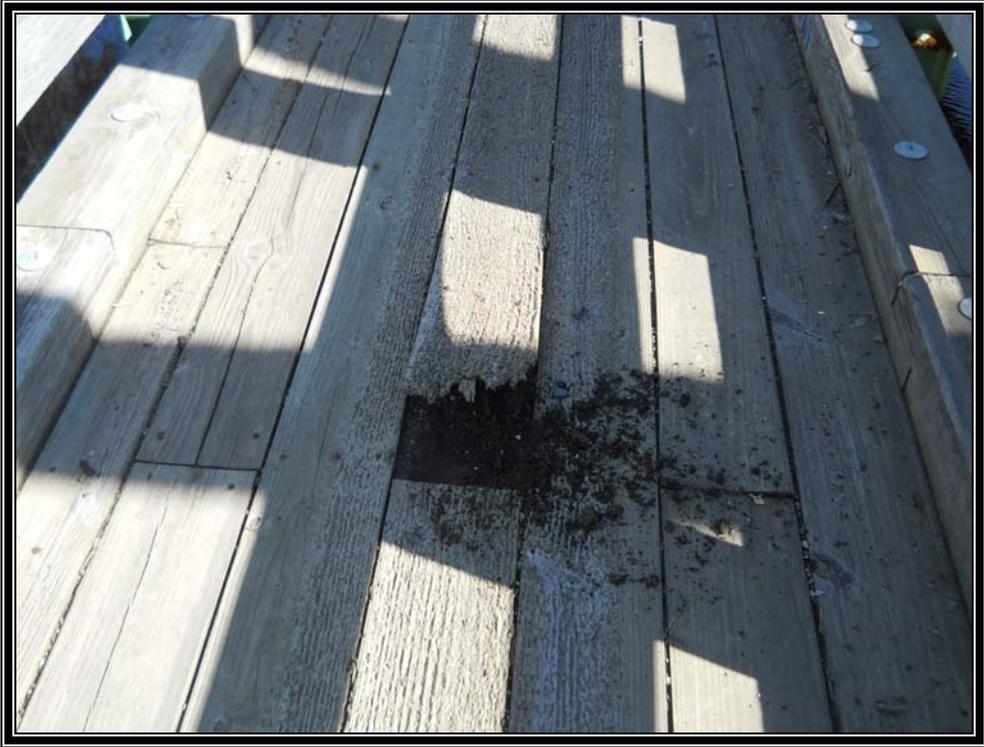


Photo 13: Cantilevered Sidewalk Running Board Rot

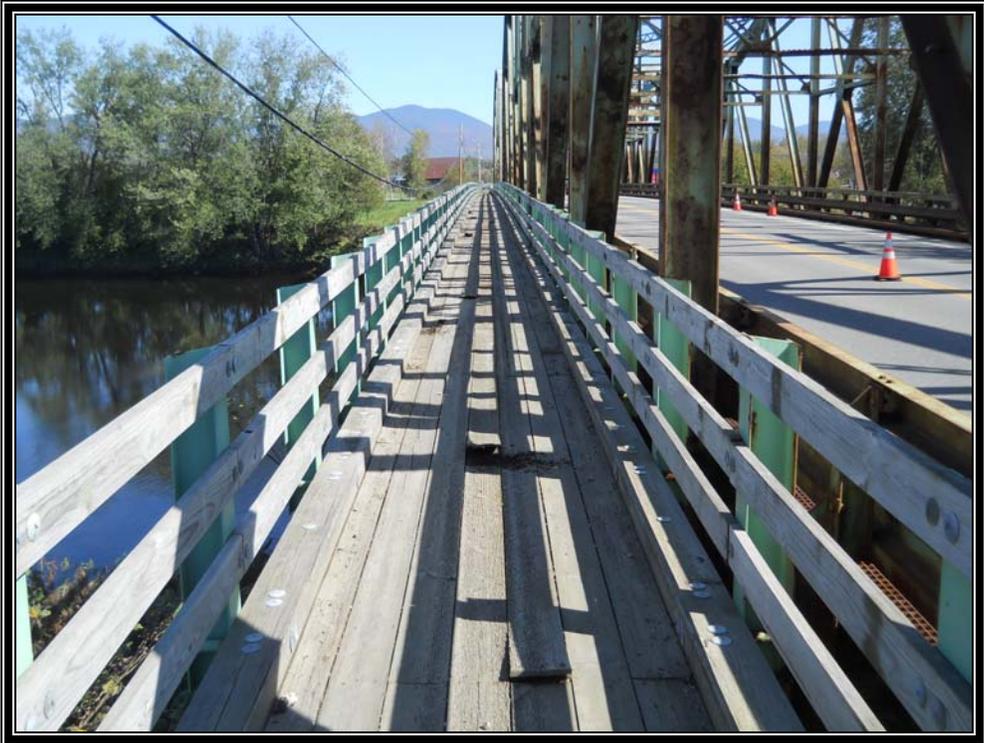


Photo 14: Cantilevered Sidewalk Curled Running Boards

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Photo 15: Typical Bridge Rail Lower Railing Corrosion Holes



Photo 16: Typical Bridge Rail Lower Railing Corrosion Holes

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Photo 17: Span 1 Eastbound Approach – Bridge Rail Vehicular Impact Damage



Photo 18: Span 1 Eastbound Approach – Bridge Rail Vehicular Impact Damage

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Photo 19: Sidewalk Railing Bolt Sleeve – Typical Paint Peeling and Corrosion



Photo 20: Sidewalk Railing Damage at Vermont Abutment

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Photo 21: Span 1, Stringer 71 Web Section Loss and Connection Deterioration



Photo 22: Span 1, Stringer 79 Web Section Loss and Connection Deterioration

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Photo 23: Span 2, Stringer 91 Web Section Loss and Connection Deterioration



Photo 24: Span 2, Stringer 81 Rusting and Corrosion

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Photo 25: Span 1, Stringer 11 Holed Web



Photo 26: Span 1, Stringer 91 Web Holes

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Photo 27: Typical Stringer "X2" Deterioration (Span 1, Stringer 22 Shown)



Photo 28: Span 2, Stringer 32 Bottom Flange Section Loss

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Photo 29: Span 1, Stringer 72 Holed Web



Photo 30: Span 1, Stringer 53 Web and Connection Deterioration

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Photo 31: Span 1, Floorbeam FB0

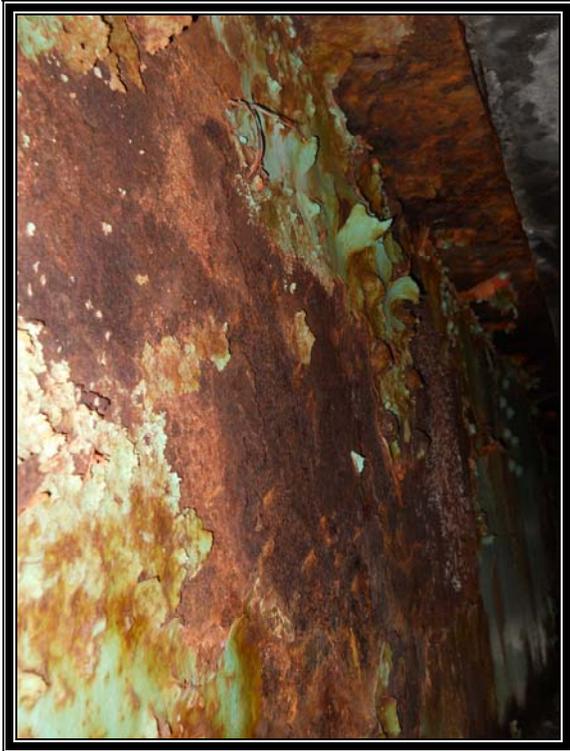


Photo 32: Span 1, Floorbeam FB9

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Photo 33: Span 2, Floorbeam FB0
(Also Shows Failed Compression Seal Hanging Below the Bridge Deck)



Photo 34: Typical Intermediate Floorbeam Deterioration
(Span 1, Floorbeam FB7 Shown)

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Photo 35: Typical Intermediate Floorbeam Deterioration
(Span 2, Floorbeam FB2 Shown)



Photo 36: Span 1 Floorbeam FB8 Web Pit at FB to Truss Connection

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Photo 37: Typical Bottom Chord Interior Side Plate Height Loss



Photo 38: Span 2 South Truss Member L5-L6 at Splice Near L5

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Photo 39: Typical Bottom Chord Pack Rust Between Channel Web and Interior Side Plate



Photo 40: Bottom Chord Laminar Corrosion and Section Loss

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Photo 41: Bottom Chord Web Pitting at End of Splice Filler Plate
(Span 1 South Truss Bottom Chord Member L3-L4 Shown)



Photo 42: Span 1 South Truss Bottom Chord Member L3-L4 Flange Splice Plate Section Loss

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Photo 43: Span 2 South Truss Bottom Chord Member L3-L4
Flange Splice Plate Corrosion Holes



Photo 44: Span 2 North Truss Bottom Chord Member L3-L4
Flange Splice Plate Deterioration and Section Loss

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Photo 45: Typical Truss Diagonal Member Deterioration
(Face Exposed to Snow and Salt Spray from Plowing Operations)



Photo 46: Span 1 South Truss Diagonal Member L4-U5 Damaged Flange

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Photo 47: Span 1 South Truss Diagonal Member L4-U5 Flange Gouge

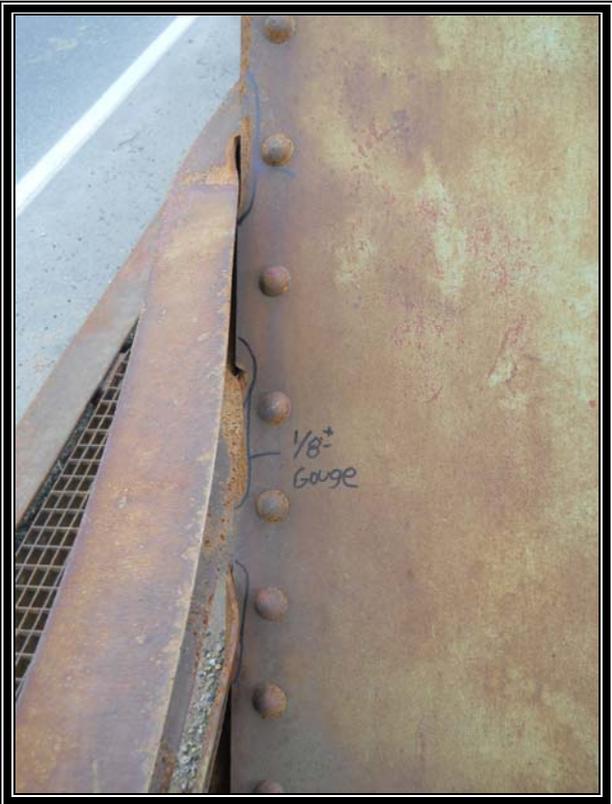


Photo 48: Span 1 South Truss End Diagonal Member L0-U1 Vehicular Impact Damage

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Photo 49: Span 2 South Truss End Diagonal Member U8-L9
(Side Exposed to Snow and Salt Spray)

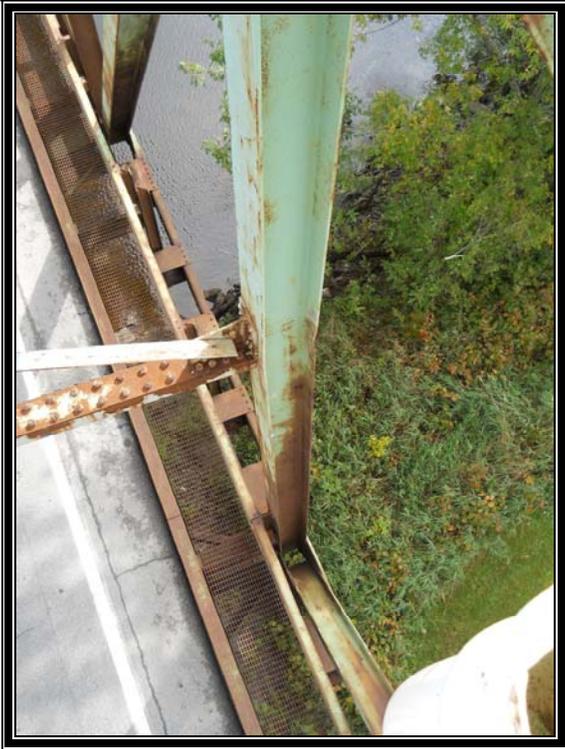


Photo 50: Span 1 South Truss Vertical Member U2-L2
Out of Plane Bending Due to Sway Bracing Vehicular Impact

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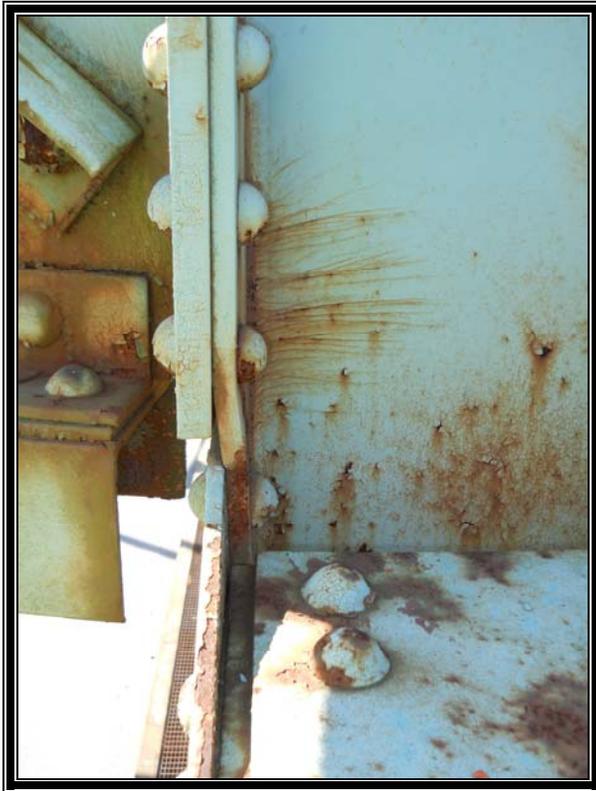


Photo 51: Span 2 North Truss Vertical Member U3-L3 Flange Damage



Photo 52: Span 1 North Truss Vertical Member U4-L4 is Bent Near L4

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Photo 53: Span 1 Lateral Bracing Member U6S-U5N

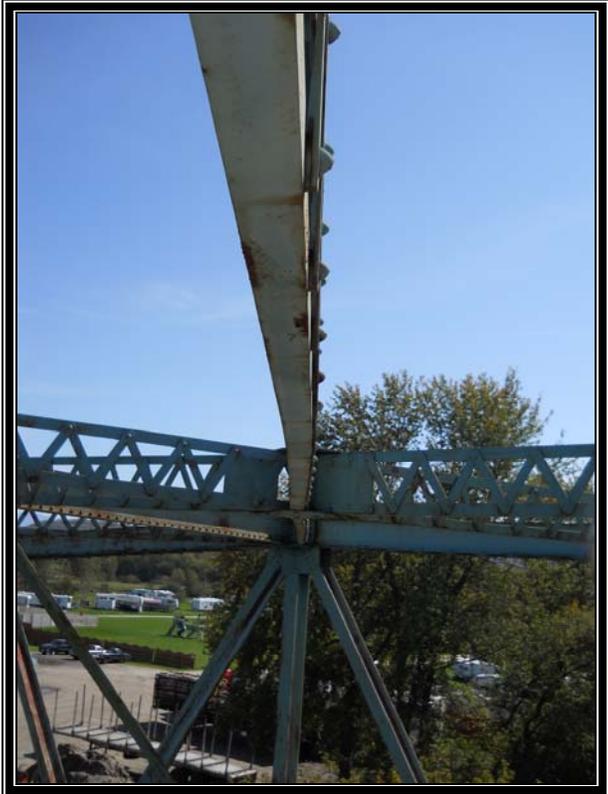


Photo 54: Span 2 Lateral Bracing Member U5S-U4N

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Photo 55: Lower Lateral Bracing Typical Rusting With Scaling at Ends
(Photo Also Shows Typical Debris Build-up on Connection)



Photo 56: Span 1 Lower Lateral Bracing Member L0N-L1S Corrosion Holes

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Photo 57: Span 2 East Portal Looking Upstream



Photo 58: Span 1 East Portal Bottom Strut Looking Upstream

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Photo 59: Sway Bracing at Panel Point 3, Span 1 Looking Upstream



Photo 60: Sway Bracing at Panel Point 3, Span 2 Looking Upstream

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Photo 61: Lower Gusset Plate Typical Surface Rusting



Photo 62: Typical Pitting and Pack Rust at Lower Gusset Plate / Truss Member Interface

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Photo 63: Span 1 South Truss Gusset Plate at U3 Paint Peeling and Rusting

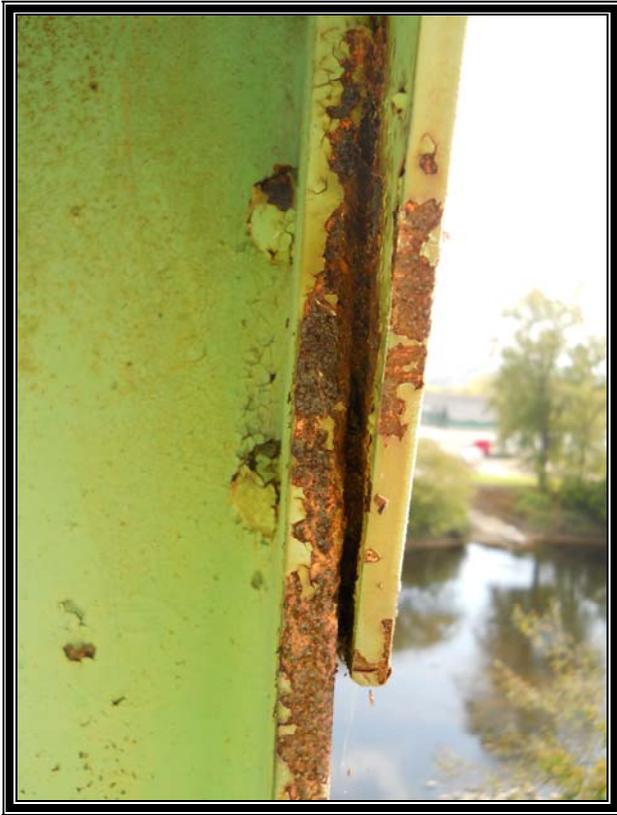


Photo 64: Pack Rust at Span 1 South Truss Gusset Plate U2

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Photo 65: Span 1 South Truss L0 Gusset Plate Rusting / Pitting



Photo 66: Span 1 South Truss L9 Gusset Plate Pitting

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Photo 67: Span 2 South Truss Bent L0 Gusset Plate



Photo 68: Span 2 North Truss L0 Gusset Plate with Section Loss

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Photo 69: Typical Lower Lateral Bracing Gusset Plate Pitting



Photo 70: Typical Lower Lateral Bracing Gusset Plate Pack Rust with Prying at Floorbeam

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Photo 71: Lower Lateral Bracing Gusset Plate to Floorbeam Rivet Head Loss
(Span 1 South Truss L6 Shown)

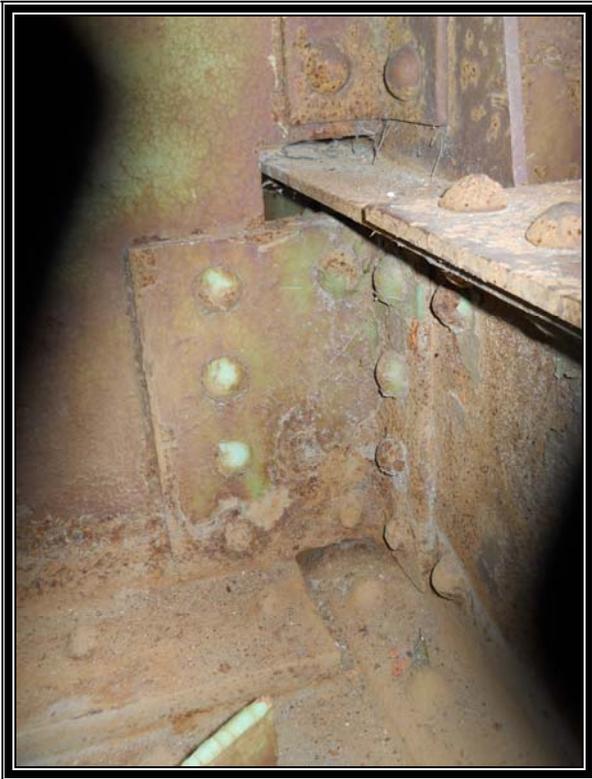


Photo 72: Typical Floorbeam to Truss Connection Angle Rivet Head Loss
(Span 2 Floorbeam FB1 Shown)

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Photo 73: Typical Open Girder Safety Curb Supporting Member Typical Web Hole



Photo 74: Cantilevered Sidewalk Support – Typical Rusting with Section Loss

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Photo 75: Span 1 South Truss Rocker Bearing Keeper Plate and Bolt Deterioration



Photo 76: Span 1 North Truss Rocker Bearing with Missing Pin Cap

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Photo 77: Span 2 North Truss Rocker Bearing Deformation (Shoulder)



Photo 78: Span 2 South Truss Rocker Bearing Deformation (Shoulder)

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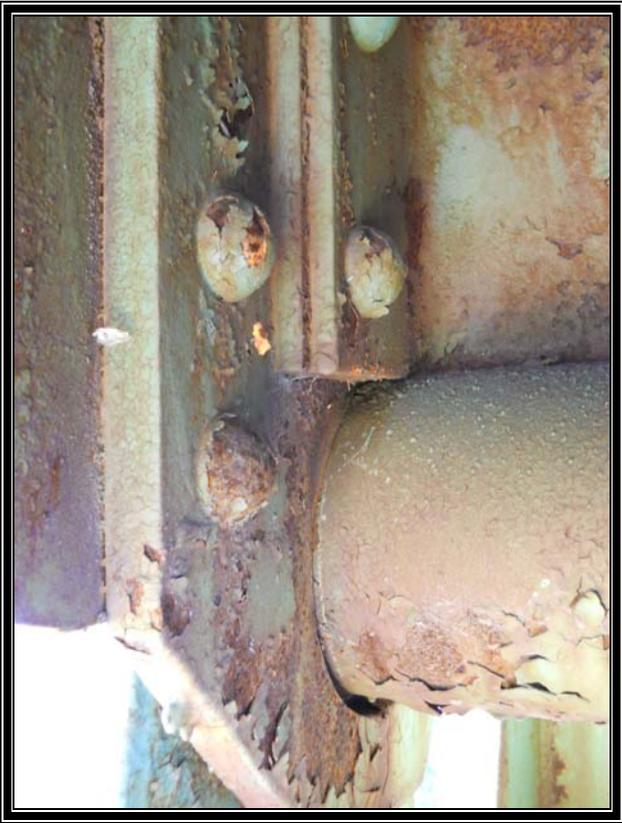


Photo 79: Span 2 South Truss Rocker Bearing Crushing of Bearing Plate



Photo 80: Span 2 South Truss Rocker Bearing Contact with Keeper Plate

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Photo 81: Vermont Abutment South Truss Bearing Seat Deterioration



Photo 82: Vermont Abutment North Truss Bearing Seat Deterioration

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Photo 83: Vermont Abutment Concrete Spall with Exposed Reinforcement



Photo 84: New Hampshire Abutment South Truss Bearing Seat Cracking and Spalling

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Photo 85: New Hampshire Abutment North Truss Bearing Seat Cracking and Spalling



Photo 86: New Hampshire Abutment Concrete Cracking

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Photo 87: Typical Pier Map Cracking (West Face Looking East)



Photo 88: Large Concrete Spall on Pier West Face

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Photo 89: Pier East Face Looking West – Concrete Cracking, Spalling, Efflorescence and Mapped Areas of Delamination



Photo 90: Large Concrete Spall on Pier East Face