



BRIDGE NO. 00032

73070 - STAMFORD
I-95 & I-95 RAMPS
over
MNRR & LOCAL ROADS

Fracture Critical and Routine Inspection

10/15/2018

Inspected by: A. DiCesare



TABLE OF CONTENTS

| <u>Section</u> | <u>Page Number</u> |
|--|--------------------|
| Location Map | 1 |
| Report Title Page | 2 |
| Structure Inventory and Appraisal (BRI-19) | 3 |
| Inspection Data (BRI-18) | 9 |
| National Bridge Elements | 18 |
| Sliding Bearing Measurement Sheet (BRI-14) | 20 |
| Fracture Critical Data (BRI-12) | 21 |
| Sketches | 23 |
| Pictures | 120 |

Form: Location

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

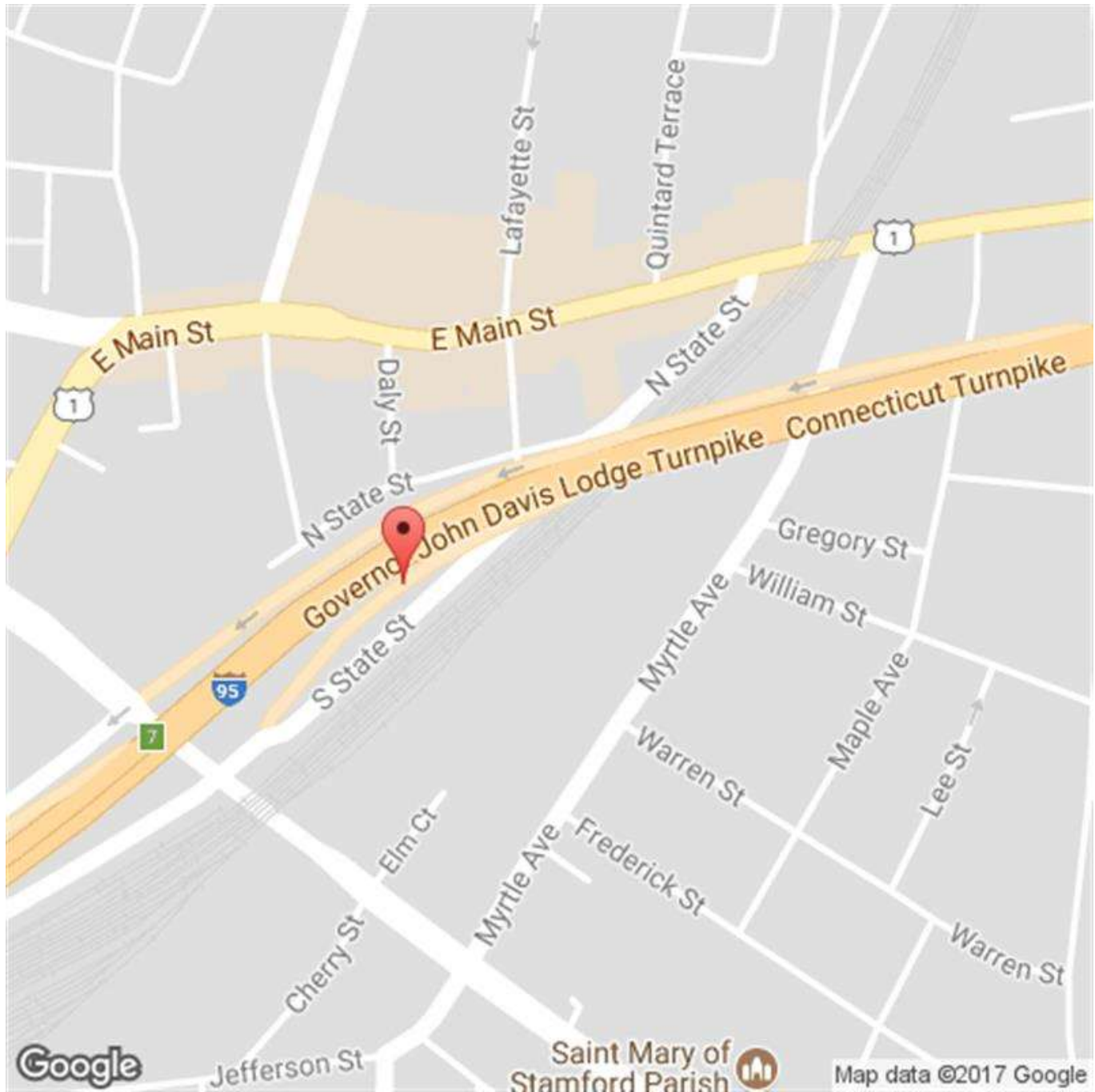
Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

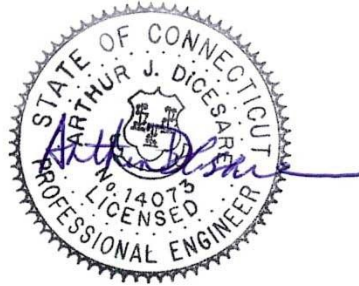
Inventory Route: NHS



Location Map # 1

Bridge No. 00032, Interstate 95 & 1-95 Ramp 028 over Metro North Railroad & Local Roads,
Stamford

Inspected By: A. DiCesare Associates Date: 10/15/2018



Professional Certification: I hereby certify that this report, including all of its contents, has been approved by me, and that I am a duly licensed professional engineer under the laws of the State of Connecticut.

Signature: *Arthur DiCesare*

License No: 14073

Date: 11/19/2018

STRUCTURE INVENTORY & APPRAISAL

INSPECTION

Structurally Deficient Functionally Obsolete

Sufficiency Rating

(90) Inspection Date (91) Frequency

Indepth Insp Proposed next Indepth Year

Deck Survey Date Class

Access Flagman

| | Frequency | Date | Type |
|------------|---------------------------------|---|--|
| Fracture | <input type="text" value="24"/> | <input type="text" value="10/15/2018"/> | <input type="text" value="D Two Girder System, riveted / bolted plate girders"/> |
| Underwater | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Special | <input type="text"/> | <input type="text"/> | <input type="text"/> |

IDENTIFICATION

Bridge Name

Town Code - Name

(5) Inventory Route

(A) Record Type

(B) Signing Prefix

(C) Level of Service

(D) Route Number.

(E) Dir Suffix

(6A) Featured Intersected

(6B) Critical Facility Indicator

(7) Facility Carried

(9) Location

(11) Mile Post Miles

(16) Latitude Deg. Min. Sec.

(17) Longitude Deg. Min. Sec.

(98) Border Bridge

(A) State Code (B) Percent Responsibility %

(C) Border Town Name

(99) Border Bridge Structure No.

STRUCTURE TYPE & MATERIALS

(43) Structure Type, Main

A) Material

B) Design Type

(44) Structure Type, Approach

A) Material

B) Design Type

(45) Number of Spans, Main Unit

(46) Number of Approach Spans

(107) Deck Structure Type

(108) Wearing Surface/Protection Systems

A) Type of Wearing Surface

B) Type of Membrane

C) Type of Deck Protection

Substructure

A) Material

B) Design Type

Paint

Type

Year

Comment

GEOMETRIC DATA

(48) Length of Maximum Span ft.

(49) Structure Length ft.

(50) Curb or Sidewalk Widths

A) Left ft. in. B) Right ft. in.

(51) Bridge Roadway Width Curb to Curb ft. in.

(52) Deck Width, Out to Out ft. in.

(32) Approach Roadway Width ft.

(33) Bridge Median 3 - Closed median with non-mountable barriers

Deck Area 139163 sq. ft.

(34) Skew Angle 99 deg.

(35) Structure Flared 1 - Yes, flared

(10) Inv. Rte. Min. Vert. Clearance 99 ft. 99 in.

(47) Inv. Rte. Total Horiz. Clr. 54 ft. 5 in.

Log Inv. Rte. Total Horiz. Clr. 54 ft. 5 in.

RLog Inv. Rte. Total Horiz. Clr. 41 ft. 5 in.

(53) Min. Vert. Clearance Over Bridge 21 ft. 4 in.

(54) Log-Min. Vert. Underclearance R ref. 29 ft. 0 in.

(55) Min. Lat Underclearance on Right H ref. 2 ft. 7 in.

(56) Min. Lat Underclearance on Left 6 ft. 0 in.

CONDITION

(58) Deck 4

(59) Superstructure 5

(60) Substructure 5

(61) Channel & Channel Protections N

(62) Culverts N

(36) Traffic Safety Features

A) Bridge Railings 0

B) Transitions 1

C) Approach Guardrail 1

D) Approach Guardrail Ends 1

AGE AND SERVICE

Year Built 1958 (106) Year Reconstructed 1993

(42) Type of Service

A) On 1 - Highway

B) Under 4 - Highway - railroad

(28) Number of Lanes

A) On 07 B) Under 05

(29) Average Daily Traffic 127300

Is Above Half ADT? No

(109) Percent Truck 13 %

(30) Years of ADT 2015

(19) Bypass, Detour Length 1 Miles

APPRAISALS

(67) Structural Evaluation 5

(68) Deck Geometry 4

(69) Underclearances, Vert. & Horiz. 3

(71) Waterway Adequacy N

(72) Approach Roadway Alignment 6

(113) Scour Critical N

COMMENTS

Project No. 0135-0292 (2008): Repair / Strengthening of Pier Nos 6 and 7.

This structure crosses the following local roads: Myrtle Avenue, North State Street & Lafayette Street. -Item #48 taken from cl to cl of bearings. Item #36 and Item #50 safety walk still exists in spans 1 through 3 on I-95 NB. Item #51 and Item #52 measurements were taken in span 7 (most restrictive). Deck area varies in width & length of spans. Item 29 is max. ADT.

SUMMER-WINTER JOINT MEASUREMENT LIST (KMR 3/1/10).

- Item109 (% Trucks) from 2015 traffic data. RDJ 9/18/15

Project #0135-0301; FDP:09/24/14; ADV:12/03/14; Award:02/27/15 - (AG 05/20/14)Project No. 0135-0301 REMOVED - Rehab work for this structure removed from this project, per Bob B. (02-23-15 AG)

Form: BRI-19, Rev. 2/15

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

WATERWAY

Drainage Basin Waterway

(38) Navigation Control

(39) Navigation Vertical Clearance ft.

(40) Navigation Horiz. Clr. ft.

(111) Pier/Abutment Navigation

(116) Vert-Lift Brg Nav Min ft. in.

CLASSIFICATION

(112) NBIS Bridge Length

(104) Highway System

(26) Functional Class

(100) Defense Highway

(101) Parallel Structure

(102) Direction of Traffic

Form: BRI-19, Rev. 2/15

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

| | |
|-----------------------------------|---|
| (103) Temporary Structure | |
| (110) Designated National Network | 1 - Inventory route on National Truck Network |
| (20) Toll | 3 - On Free Road |
| (21) Maintain | 01 - State Highway Agency |
| (22) Owner | 01 - State Highway Agency |
| Report Class | S - STATE |
| (37) Historical Significance | 5 - Not eligible for National Register |

POSTED SIGNS

| | |
|---------------------|---|
| Other Posted Sign 1 | 3 - Directional & Route information signs |
| Other Posted Sign 2 | 0 - Blank |

| | Actual | Recomended | |
|----------------------------------|--------|------------|---------|
| Posted Load Single Unit Truck | | | tons |
| Posted Load Semi-Trailer Truck | | | tons |
| Posted Load 4 Axle Truck | | | tons |
| Posted Load 3S2 Truck | | | tons |
| All Vehicles | | | tons |
| Posted Vert. Clearance on Bridge | | | ft. in. |
| Posted Vert. Underclearance | | | ft. in. |
| Posted Speed Limit on Bridge | | | m.p.h. |

OTHER FEATURES

| | |
|-------------------------------|--------------------------------------|
| Fence Required | No |
| Fence Present | Yes |
| Fence Type | 5 - Other |
| Fence Height | 8.4 |
| Fence Material | 4 - Other |
| Fence Top Type | 1 - Vertical |
| Barrel Ladders | No |
| Stand Pipes | No |
| Catwalks | No |
| Moveable Inspection System | No |
| Haunches Present over Roadway | YES |
| Utilities | U Unknown Duct F Fiber Optics |

PROPOSED IMPROVEMENTS

| | |
|--------------------------------------|-------------------------------------|
| (75A) Type of Work Proposed | 35 - Rehabilitation - Deterioration |
| (75B) Work Done By | 1 - Work to be done by contract |
| (76) Length of Structure Improvement | |
| (94) Bridge Improvement Cost | \$ |
| (95) Roadway Improvement Cost | \$ |
| (96) Total Project Cost | \$ 20000 |
| (97) Year of Improvement Estimate | 2015 |
| (114) Future ADT | 189155 |

| | |
|----------------------------|------------|
| (115) Year of Future ADT | 2035 |
| DOT Bridge Program List No | 20 |
| Project No | 0135-0334 |
| Advertised Date | 07/10/2019 |

LOAD RATING & POSTING

| | |
|----------------------------|-----------------------------------|
| (31) Design Load | 5 - HS 20 |
| (63) Operating Rating Type | 1 - Load Factor (LF) |
| (64) Operating Rating | 90.9 |
| (65) Inventory Rating Type | 1 - Load Factor (LF) |
| (66) Inventory Rating | 54.5 |
| Evaluation Code | L - Load Factor |
| Year of Evaluation | 2001 |
| (70) Bridge Posting | 5 - Equal to or above legal loads |
| (41) Structure Status | A - Open |

Form: BRI-19, Rev. 2/15

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

Form: BRI-19, Rev. 2/15

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS


Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

INSPECTOR'S SIGNATURES:


1)  Date: 11/19/2018

P.E. SIGNATURE:  Date: 11/19/2018

2)  Date: 11/19/2018

P.E. # 14073

3) _____ Date:

Reviewed By:  Date: 12/19/2018

4) _____ Date:

Form: BRI-18, Rev. 1/14

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

FIELD INSPECTION REPORT

Location: 0.2 MI EAST OF EXIT 8 NB
 Main Material: 3 - Steel
 Main Design: 03 - Girder and Floorbeam

Year Built: 1958
 Year Rebuilt: 1993

Snooper Required:
 Snooper Used:

Inspectors:

Lead Inspector: Jake Kaufman
 Inspector: Task:
 Gabrielson, Kurt BSE - Inspector
 Rail - Inspector
 Kaufman, Jake BSE - Inspector
 Rail - Inspector

Visits:

| Visit Date: | Temp: | Start Time: | End Time: |
|-------------|-------|-------------|-----------|
| 10/15/2018 | 66 | 07:30 AM | 02:00 PM |
| 10/22/2018 | 55 | 07:30 AM | 03:30 PM |
| 10/23/2018 | 62 | 08:00 AM | 03:30 PM |
| 10/24/2018 | 58 | 07:30 AM | 03:30 PM |
| 10/25/2018 | 51 | 07:30 AM | 03:30 PM |
| 10/26/2018 | 48 | 07:30 AM | 03:30 PM |
| 10/29/2018 | 53 | 07:30 AM | 03:30 PM |
| 10/30/2018 | 57 | 07:30 AM | 03:30 PM |
| 10/31/2018 | 66 | 07:30 AM | 03:30 PM |
| 11/01/2018 | 70 | 07:30 AM | 03:30 PM |
| 11/02/2018 | 68 | 07:30 AM | 03:00 PM |

58. DECK:

Overall Rating: 4

Rating

Overlay: 7 The bituminous overlay has:

- Isolated longitudinal and transverse cracks open up to 1/16" wide, numerous sealed cracks and minor rutting in wheel lines.
- Previously sealed cracks have re-opened up to 1/8" wide and there are concrete patches.
- Previously sealed joint at abutment 1A is re-cracking up to 1/8" wide.

See Top of Deck sketches.

Deck - Str. Condition: 4

The underside of deck has:

- The deck end in span 15 on both sides of girder G11 at pier 15 is pumping ±1/8" under live load.
- Random hairline transverse cracks and map cracking with efflorescence.
- Areas of moderate scale, honeycombing up to 10' long x 2' wide with exposed rebar (span 9 in bay 5) and spalls up to 1' diameter x 4" deep (span 4, bay 6 near pier 3) with exposed and debonded rebar with section loss to the rebar up to 10% (bay 6 of span 17).
- There are hollow areas up to 12' long x 4' wide (bay 6 of span 17) and hollow areas over the roadway and sidewalk up to 2.5' x 1.5' (bay 2 of span 16).
- Areas of dampness and rust stains.
- Random hollow sounding concrete patches with edge chipping.

Span 7 will be part of a Special Inspection.

See Underside of Deck and Framing sketches and photos 11-15.

Curbs: N

Concrete curbs are monolithic with parapets in all spans except in Spans 1A to 3 of the Northbound roadway which have curbs monolithic with the safetywalk. Both Northbound and Southbound roadways in Span 7 have concrete curbs that are monolithic with safety walks.

The curbs have:

| | |
|----------------------|---|
| | <p>-Chipped edges, scrapes and cracks.</p> <p>There is a 2' long section of broken curb along the west fascia at pier 7.</p> <p>The average curb reveals at the east curb is 6" in spans 1A-7 and 2-12" in spans 8-17. The west curb reveal is 6" in span 7 and 2-3/4" in the remaining spans.</p> <p>Also see items "Sidewalks" and "Parapets" below.</p> <p>See the Top of Deck sketches and photo 16.</p> |
| Median: 6 | <p>The concrete median has:</p> <ul style="list-style-type: none"> -Scrapes from collision at random locations. -Vertical cracks up to 1/8" wide with efflorescence and areas of hairline map cracks up to 12' long x full height. -Spalls with exposed rebar up to 8' long x 6" high x 1" deep. <p>The longitudinal joint seal is missing and/or deteriorated at random locations with areas of active leakage noted below.</p> <p>See the Top of Deck and Underside of Deck and Framing sketches and photo 20.</p> |
| Sidewalks: 5 | <p>There are concrete safetywalks along the Northbound roadway in Spans 1A-3 and along both fascias in Span 7.</p> <p>The safetywalk edges have:</p> <ul style="list-style-type: none"> -Areas of chipping and scrapes throughout. -Spalls with exposed rebar up to 6' long x full height x 3" deep and longitudinal cracks up to 50' long x 1/4" wide. <p>See the Top of Deck sketches and photo 16.</p> |
| Parapet: 7 | <p>The parapets have:</p> <ul style="list-style-type: none"> -Random vertical hairline cracks up to full height with efflorescence. -Areas of hairline map cracks and impact scrapes. <p>See the Top of Deck sketches.</p> |
| Railing: 4 | <p>The railings have:</p> <ul style="list-style-type: none"> -Peeling paint and areas of heavy rust with 100% section loss at the post connections. -Loose sections at random locations and missing railings. <p>See Top of Deck sketches and photo 17.</p> |
| Paint: N | |
| Fence: 7 | <p>The 18" high fence on top of the through girders has random areas of peeling paint and light rust throughout. There is up to 1" thick pack rust at the bottom of the fences.</p> <p>See the Top of Deck sketches.</p> |
| Drains: 5 | <ul style="list-style-type: none"> -The scuppers on the bridge are partially or fully clogged, however some have been cleared since the previous inspection. -Some deck weep pipes are draining on to the abutment seats. -There are weep pipes that are missing extensions and may drain on the superstructure and substructure. -There are random weeps along the median that are disconnected from the bottom flange supports. <p>See the Underside of Deck and Framing sketches and photos 18-20.</p> |
| Lighting Standard: 5 | <ul style="list-style-type: none"> -The light standards have dents, missing anchor bolts, missing handhole cover screws and a missing handhole cover with exposed wires at the east parapet in span 1A. -The junction box covers in the parapets have missing screws but are secure. |

See the Top of Deck sketches and photo 21.

Overall Utility Condition Rating 6 - Fair

Utility Type/Size

| | |
|------------------|--|
| U Unknown Duct | <p>Unknown 4" diameter utility conduit inside each through box girder (RDJ-9/21/15)]. Inside of through box girder 2, the 4" diameter conduit is vibrating under live load and rubs against the intermediate diaphragms at midspan (RDJ 9/21/15)]. The conduit is beginning to deteriorate (with groove) up to 1/8" deep. Conduits in both box girders have missing or broken junction box covers with exposed wires. RDJ 9/21/15)]</p> <p>See the Underside of Deck and Framing sketches.</p> |
| F Fiber Optics | <p>The bridge carries a 4" diameter conduit for fiber optic cable attached to the east parapet in Spans 1A-7 and along the underside of the bridge in Spans 8-17 near the east fascia. No deficiencies were noted.</p> <p>See the Underside of Deck and Framing sketches.</p> |

Construction Joints: N

Expansion Joint: 5

- The pourable seal deck joints have areas of separation and areas where the seal material is missing up to 1'-6" long with evidence of leakage below.
- The joint header exhibits a spall 6" x 6" x 3" deep in the northbound on ramp at pier 1.
- There is a cracked and depressed area in the joint header 1.5' long x full width x 1/2" deep in the southbound middle lane at pier 4.
- There are areas of deck joint leakage on the substructure.
- The median barrier deck joint steel plates have random missing/sheared off and loose connection bolts.

See the Top of Deck sketches and photos 19 and 22.

Haunches Present over travelway? YES

APPROACH CONDITION:

Overall Rating: 7

Rating

Approach Slab: 7 The approach slab is paved over. Rating is based on the condition of approach pavement.

Relief Joints: N

Approach Guide Rail: 6

The concrete barrier is continuous on both approaches along the Southbound roadway. The barrier has minor scrapes, edge chipping and full height vertical hairline cracks at random locations.

There is a metal beam guide rail at the northeast and southeast corners of the bridge, along the east side of the north approach ramp and along the east side of northbound roadway.

The metal beam guide rails have:

| | |
|------------------------|--|
| | -Minor dents, scrapes with rust stains, detached post, missing spacer blocks, missing/bent anchor bolts and loose nuts. The cable for the impact attenuator between Bridge Nos. 00032 and 06584 in the north approach on the southbound side has a slight loss of tension and the reflective sign is fading. See the Top of Deck sketches. |
| Approach Pavement: 7 | The bituminous approach pavements have isolated transverse cracks up to full width x 1/4" wide and areas of minor wheel rutting. See the Top of Deck sketches. |
| Approach Embankment: 8 | |

Traffic Safety Features

| | |
|----------------------------|---|
| Bridge Railings: 0 | Solid concrete parapet along the South side in Spans 1A and 1 is less than 42" high on NHS. |
| Transitions: 1 | |
| Approach Guardrails: 1 | |
| Approach Guardrail Ends: 1 | |

59. SUPERSTRUCTURE:

| | |
|---|-------------------|
| Steel Multi-Girder (Spans 1A-6 & 8-17) Girder-Floorbeam System (Span 7) | Overall Rating: 5 |
| Span 7 is not included in this inspection as this span will be inspected as part of a special inspection. | |
| The following areas could not be accessed: -Span 1A due to homeless activity. -Span 10, west of girder 5 due to construction activity. -Span 17 bearings at pier 16 due to aerial wires on Myrtle Ave. | |

Rating

| | |
|--------------------|--|
| Bearing Devices: 4 | The bearings have : -Heavy laminated rust with impacted rust up to 3/4" thick between the plates and gaps up to 1" between the masonry plate and concrete pedestal. Some bearings pump up to 1/8" under live load. -Span 15 bearings are "floating" and have gaps up to 3/8" below the bearing. -Undermining of the bearing assembly up to 3" wide x 1/2" deep (girder 1 bearing in span 10 at pier 7) due spalls in the pedestals. -Missing/broken keeper plate bolts and cracked welds between the bottom flange and the bearing plate. -The fabric pad between the existing shim plate and masonry plate of girder G5 at the pier 5 to pier 6 intersection in span 5 is deteriorated full length x 3" wide on west and north sides and masonry plate. -Heavy accumulation of bituminous debris around the bearing area at random locations. -There are anchor bolts which are tilted or have backed off anchor bolt nuts. Isolated anchor bolts and nuts exhibit section loss up to 100% (worst at girder 18 at pier 1). See the Underside of Deck and Framing sketches and photos 23-25. |
| Stringers: N | |
| Girders: 5 | Steel multi-girders in Spans 1A-6 and 8-17: The girders have: -Areas with section loss on the webs up to 8' long x 4" high x 1/8" deep in the bottom of the web on the east side, full height behind the bearing x 1/4" deep pitting on the west side and section loss to bearing stiffeners up to a full width x 1" high perforation (Girder 8 in span 2 at pier 2). This results in up to 8% web loss and up to 30% bearing loss. There is section loss in bottom flanges at beam ends up to full width x 1/4" deep pitting (non-critical location). -There is an isolated area of section loss to the web at span 16, girder 13 at pier 15, 11" long x 5" high x 5/16" deep section loss on the west side and 8" long x 4" high x 1/4" deep pitting on the east side. |

Form: BRI-18, Rev. 1/14

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

| | | |
|-------------------------|---|---|
| | | -Areas of peeling paint with moderate rust on up to 70% of the surface. End diaphragms have: -Scattered areas of heavy laminated rust with section loss up to 1/4" deep and perforations up to 13" long x 1" high in the web and 4" long x 3" wide in the bottom flange (bay 2 at pier 15 in span 16). -Areas that are bent or have tears and gouges. Riveted two-girder system in span 7 (was not inspected, will be completed as part of a special inspection): -There is heavy laminated rust with up to 1/16" deep section loss on the top and bottom flanges on the interior of girder 1 in span 7 at the west side. - At the deck level the web and vertical stiffeners have laminated rust along the bottom 6" high with areas of section loss up to 5' long x 6" high x 1/4" deep. -The concrete end blocks, adjacent to access doors, have spalls with exposed rebar. - All access doors are broken/open except the south door for girder 2, which is bolted shut. See the Underside of Deck and Framing sketches and photos 26-31. |
| Floor Beams: | 5 | Floorbeams in span 7 will be inspected as part of a special inspection. |
| Trusses - General: | N | |
| Trusses - Portals: | N | |
| Trusses - Bracing: | N | |
| Paint: | 3 | The girder ends are painted over with areas of spotty rust and paint holidays at random locations. The paint is deteriorated on approximately 75% of the steel framing. See items "Bearing Devices" and "Girders". See the Underside of Deck and Framing sketches. |
| Rust: | 5 | See items "Bearing Devices", "Girders" and "Paint" above. |
| Machinery Movable Span: | N | |
| Rivets & Bolts: | 6 | Span 7 is not included in this inspection as these spans will be inspected as part of a special inspection. |
| Welds - Cracks: | 5 | -The cover plate end welds were inspected 100% hands-on and have no significant deficiencies. -In span 15, the end diaphragm in bay 11 over pier 15 at the connection to the pier 14 end diaphragm has a 7" long crack in the web (previously 3-3/4" long). -The end diaphragm over pier 14 has a 9" long crack in the vertical weld at the connection to span 16 girder 13 bearing stiffener (previously 4" long). -In span 15, the end diaphragm in bay 5 over pier 15 at girder 5 has a 3-1/4" long crack in the vertical weld that extends 1" along the top (previously 2" long). -In span 15, the end diaphragm in bay 10 over pier 14 adjacent to the girder 11 bearing stiffener is cracked through the web and bottom flange, 11" high x 1/16" wide. The deck is pumping at this location. -There are several locations of cracked or sloppy welds at the diaphragm to web stiffener connections. See the Underside of Deck and Framing sketches and photos 32-36. |
| Timber Decay: | N | |
| Concrete Cracking: | N | |
| Collision Damage: | 5 | Steel box through girders above the deck level have collision damage to the vertical stiffeners at random locations along the length of the girders. See the Underside of Deck and Framing sketches and photo 30. |
| Member Alignment: | 6 | See item "Bearing Devices" above. |
| Deflection Under Load: | E | (N)-Normal (E)-Excessive |

| | |
|---|---------------------------------------|
| <p>In Span 15, the deck along the end diaphragm is pumping under live load in Bays 4, 5, 10 and 11 over Pier 15 and along girders G5 and G11. Random bearings are pumping under live load up to 1/8".</p> | |
| <p>See items "Deck Structural Condition" and "Bearing Devices" above.</p> | |
| Vibration Under Load: | <p>E (N)-Normal (E)-Excessive</p> |
| <p>See items "Deck Structural Condition" and "Bearing Devices" above.</p> | |
| Stand Pipes: | N |
| Catwalks: | N |
| Movable Inspection System: | N |
| Barrel Ladders: | N |
| <p>Are Barrel Ladders OSHA Compliant? <input type="text" value="N/A"/></p> | |

60. SUBSTRUCTURE:

The following areas could not be accessed:
 -Abutment 1A, wingwalls 1A and 1B, and pier 0 due to homeless activity.
 -Pier 1, south elevation above the top of the cap, since the lift was blocked by the retaining wall that runs along the north side of pier 1.
 -Pier 7, north elevation (west quarter) above the top of the crashwall due to construction activity.
 -Pier 7, north elevation (west-center quarter) above the bottom of the cap due to construction activity.
 -Pier 10, south elevation (west half) west of girder 5 due to construction activity.
 -Pier 16, north elevation above the top of the cap due to aerial wires on Myrtle Ave.

Overall Rating:

Rating

| | | |
|-------------------------|---|--|
| Abutments - Stem: | 6 | <p>The abutment stems have: -Vertical hairline cracks and map cracks with efflorescence, spalls up to 1'-6" high x 5" wide x 5" deep, hollow areas up to 10" high x 8" wide, and accumulation of man-made debris around the bearings. Previously noted heavy graffiti has been painted over.</p> <p>-The abutment 1 vertical construction joint between girders 8 and 9 is open up to 2 1/2" and the joint filler is missing allowing backfill exfiltration.</p> <p>-The concrete pedestals have hairline cracks, spalls up to 10" long x 6" high x up to 6" deep with exposed rebar and hollow areas with cracks.</p> <p>See the Abutment sketches and photos 37-40.</p> |
| Abutments - Backwall: | 7 | <p>The backwalls have random vertical hairline cracks with efflorescence, spalls up to 3' long x 10" high x 2" deep and areas of deck joint leakage.</p> <p>See the Abutment sketches.</p> |
| Abutments - Footings: | 6 | <p>The abutment 1 footing at the west end is exposed 4' long x 3' wide x 1' high and has a spall 1' long x 1' wide x 3" deep.</p> <p>See the Abutment sketches and photo 41.</p> |
| Abutments - Settlement: | 8 | None noted. |
| Abutments - Wingwalls: | 7 | <p>The wingwalls have vertical, horizontal and map hairline cracks with efflorescence. There is heavy graffiti and light vegetation growth.</p> <p>See the Wingwall sketches.</p> |
| Piers/Bents - Caps: | 5 | -Several concrete pier caps have been patched. However the pier caps have areas of map cracking, |

| | | |
|---------------------------|---|--|
| | | vertical hairline cracks up to full height with efflorescence and rust staining, moderate scale, numerous hollow areas up to 3' wide x 2' high and spalling with exposed rebar up to 4'-4" long x 2'-6" high x 7" deep (pier 7 north elevation between G4-10 and G5-10). |
| | | -The previously noted spalling with exposed rebar, hollow areas and cracking on the pier 3 cap have been repaired since the previous inspection. |
| | | -The concrete pedestals have cracks, hollow areas and spalls with exposed rebar up to 1' long x full height x 5" deep, some of which undermine the bearings. |
| | | -The steel pier cap at the east half of pier 4 has areas of peeling paint and light rust. |
| | | See the Pier sketches and photos 42-45 and 47. |
| Piers/Bents - Pile Bent: | N | |
| Piers/Bents - Columns: | 5 | The pier columns have hairline vertical, map cracks with efflorescence and rust staining, hollow areas, spalls up to 3' high x 2' wide x 3" deep with exposed rebar (pier 7 north elevation column below G3-9) and concrete patches. |
| | | The top of the pier 3 column under girder 13 has a 6" wide x 51" deep void at the northeast corner. |
| | | See the Pier sketches and photo 42, 46 and 47. |
| Piers/Bents - Footings: | 6 | The east side of the Pier 6 footing is exposed at three locations up to 117' long x 2'-8" wide x 6" high. The exposed footing has areas of scaling along the edges. |
| | | See the Pier sketches. |
| Piers/Bents - Settlement: | 8 | None noted. |
| Erosion - Scour: | 6 | Erosion - Rating = 6. Pier 6, south gravel slope has a few areas of erosion with some areas have exposed the footing. The abutment 1 footing is exposed at the west end. Also, see item 'Piers - Footings' and 'Abutments - Footings' above. |
| | | See the Pier and Abutment 1 sketches. |
| | | Scour - N/A. |
| Concrete Crack - Spall: | 5 | See above items "Piers-Bents/Footings", "Piers/Bents – Column", "Piers/Bents – Caps", "Abutments – Wingwalls", "Abutments – Footings", "Abutments – Backwall" and "Abutments – Stem". |
| Steel Corrosion: | N | |
| Paint: | N | |
| Timber Decay: | N | |
| Collision Damage: | 8 | |
| Debris: | 5 | There is heavy accumulation of construction, joint and man-made debris on the abutment seats and top of the pier caps at random locations. |
| | | There is also heavy debris on abutment 1A. |
| | | See the Abutment and Pier sketches and photo 48. |

61. CHANNEL AND CHANNEL PROTECTION:

Overall Rating:

Rating

| | |
|-----------------------|----------------------|
| Channel - Scour: | <input type="text"/> |
| Embankment - Erosion: | <input type="text"/> |
| Debris: | <input type="text"/> |

Form: BRI-18, Rev. 1/14

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

| | |
|-------------------------|--|
| Vegetation: | |
| Channel Change: | |
| Fender - System: | |
| Spur Dikes and Jetties: | |
| Rip Rap: | |

62. CULVERTS AND RETAINING WALLS:

Overall Rating: N

Rating

| | |
|------------------------|--|
| Barrel: | |
| Concrete: | |
| Steel: | |
| Timber: | |
| Headwall: | |
| Cutoff Wall: | |
| Debris: | |
| Retaining Wall System: | |
| Footing: | |

LOAD POSTING:

Rating

| | |
|----------------------|--|
| Single Unit (Tons): | |
| Semi Trailer (Tons): | |
| 4 Axle (Tons): | |
| 3S2 (Tons): | |
| All Vehicles: | |
| Advanced Warning: | |
| Warning At Bridge: | |
| Legibility: | |
| Visibility: | |

VERTICAL CLEARANCE POSTING

| | | | | | |
|--------------------------------|--|----|--|----|------------------------------|
| Min. Vert Under Clearance: | | Ft | | In | All clearances above 25'-0". |
| Posted Clearance Under Bridge: | | Ft | | In | |
| Posted Clearance On Bridge: | | Ft | | In | |
| Advanced Warning: | | | | | |
| Warning At Bridge: | | | | | |
| Legibility: | | | | | |
| Visibility: | | | | | |

NOTES / COMMENTS:

Character of Traffic: Heavy volume with mixed weights.

Additional Notes:

1. The bridge identification number is in good condition.
2. The bridge is logged from south to north with Girder G1 at the west fascia which is consistent with the previous inspection.
3. The underside of the bridge (excluding span 7) was inspected using 80' manlift with local lane closures utilizing local police.

Form: BRI-18, Rev. 1/14

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

-
4. Underside of span 7 was not inspected during this inspection. It will be inspected during a Special Inspection.
 5. There is a overhead sign structure no. 20287 (type 41T) over the southbound lanes in Span 3.

Additional Comments:

National Bridge Elements

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|-------------|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 12 - Reinforced Concrete Deck | Mod. | 122883 | sq. ft. | 108422 | 12663 | 1798 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 873 | | 0 | 0 | 873 | 0 |
| 1090 - Exposed Rebar | | 108 | | 0 | 99 | 9 | 0 |
| 1120 - Efflorescence/Rust Staining | | 916 | | 0 | 0 | 916 | 0 |
| 1130 - Cracking (RC and Other) | | 12564 | | 0 | 12564 | 0 | 0 |
| 510 - Wearing Surfaces | | 102240 | sq. ft. | 102080 | 160 | 0 | 0 |
| 3230 - Effectiveness (Wearing Surface) | | 160 | | 0 | 160 | 0 | 0 |
| 102 - Steel Closed Web/Box Girder | Mod. | 427 | ft. | 0 | 267 | 160 | 0 |
| 1000 - Corrosion | | 367 | | 0 | 267 | 100 | 0 |
| 7000 - Damage | | 60 | | 0 | 0 | 60 | 0 |
| 107 - Steel Open Girder/Beam | Mod. | 13033 | ft. | 5203 | 7761 | 69 | 0 |
| 1000 - Corrosion | | 7823 | | 0 | 7754 | 69 | 0 |
| 7000 - Damage | | 7 | | 0 | 7 | 0 | 0 |
| 515 - Steel Protective Coating | | 182873 | sq. ft. | 38238 | 19949 | 124686 | 0 |
| 3440 - Effectiveness (Steel Protective Coatings) | | 144635 | | 0 | 19949 | 124686 | 0 |
| 205 - Reinforced Concrete Column | Mod. | 111 | each | 70 | 41 | 0 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 12 | | 0 | 12 | 0 | 0 |
| 1090 - Exposed Rebar | | 4 | | 0 | 4 | 0 | 0 |
| 1120 - Efflorescence/Rust Staining | | 7 | | 0 | 7 | 0 | 0 |
| 1130 - Cracking (RC and Other) | | 18 | | 0 | 18 | 0 | 0 |
| 210 - Reinforced Concrete Pier Wall | Mod. | 224 | ft. | 0 | 224 | 0 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 85 | | 0 | 85 | 0 | 0 |
| 1120 - Efflorescence/Rust Staining | | 5 | | 0 | 5 | 0 | 0 |
| 1130 - Cracking (RC and Other) | | 54 | | 0 | 54 | 0 | 0 |
| 6000 - Scour | | 80 | | 0 | 80 | 0 | 0 |
| 215 - Reinforced Concrete Abutment | Mod. | 300 | ft. | 235 | 52 | 13 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 13 | | 0 | 0 | 13 | 0 |
| 1090 - Exposed Rebar | | 3 | | 0 | 3 | 0 | 0 |
| 1120 - Efflorescence/Rust Staining | | 11 | | 0 | 11 | 0 | 0 |
| 1130 - Cracking (RC and Other) | | 34 | | 0 | 34 | 0 | 0 |
| 6000 - Scour | | 4 | | 0 | 4 | 0 | 0 |
| 220 - Reinforced Concrete Pile Cap/Footing | Mod. | 181 | ft. | 180 | 0 | 1 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 1 | | 0 | 0 | 1 | 0 |
| 234 - Reinforced Concrete Pier Cap | Mod. | 1896 | ft. | 780 | 722 | 394 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 805 | | 0 | 435 | 370 | 0 |
| 1090 - Exposed Rebar | | 35 | | 0 | 15 | 20 | 0 |
| 1120 - Efflorescence/Rust Staining | | 55 | | 0 | 55 | 0 | 0 |
| 1130 - Cracking (RC and Other) | | 221 | | 0 | 217 | 4 | 0 |
| 301 - Pourable Joint Seal | Mod. | 2149 | ft. | 2134 | 11 | 4 | 0 |
| 2320 - Seal Adhesion | | 9 | | 0 | 9 | 0 | 0 |
| 2330 - Seal Damage | | 3 | | 0 | 0 | 3 | 0 |

National Bridge Elements**Inspection type:** Fracture Critical,Routine**Inspection Date:** 10/15/2018**Inspected by:** A. DiCesare Associates**Bridge No:** 00032**Town:** STAMFORD**Carried:** I-95 & I-95 RAMPS**Crossed:** MNRR & LOCAL ROADS**Inventory Route:** NHS

| | | | | | | | |
|--|------|------|---------|------|-----|-----|---|
| 2360 - Adjacent Deck or Header | | 3 | | 0 | 2 | 1 | 0 |
| 310 - Elastomeric Bearing | Mod. | 254 | each | 4 | 249 | 1 | 0 |
| 1000 - Corrosion | | 242 | | 0 | 241 | 1 | 0 |
| 2230 - Bulging, Splitting, or Tearing | | 8 | | 0 | 8 | 0 | 0 |
| 311 - Movable Bearing | Mod. | 5 | each | 0 | 5 | 0 | 0 |
| 1000 - Corrosion | | 5 | | 0 | 5 | 0 | 0 |
| 515 - Steel Protective Coating | | 5 | sq. ft. | 0 | 5 | 0 | 0 |
| 3440 - Effectiveness (Steel Protective Coatings) | | 5 | | 0 | 5 | 0 | 0 |
| 313 - Fixed Bearing | Mod. | 222 | each | 1 | 144 | 77 | 0 |
| 1000 - Corrosion | | 216 | | 0 | 139 | 77 | 0 |
| 2240 - Loss Bearing Area | | 5 | | 0 | 5 | 0 | 0 |
| 515 - Steel Protective Coating | | 222 | sq. ft. | 1 | 0 | 221 | 0 |
| 3440 - Effectiveness (Steel Protective Coatings) | | 221 | | 0 | 0 | 221 | 0 |
| 330 - Metal Bridge Railing | Mod. | 751 | ft. | 258 | 448 | 45 | 0 |
| 1000 - Corrosion | | 385 | | 0 | 375 | 10 | 0 |
| 1020 - Connection | | 108 | | 0 | 73 | 35 | 0 |
| 515 - Steel Protective Coating | | 1502 | sq. ft. | 752 | 750 | 0 | 0 |
| 331 - Reinforced Concrete Bridge Railing | Mod. | 1807 | ft. | 1626 | 181 | 0 | 0 |
| 1120 - Efflorescence/Rust Staining | | 90 | | 0 | 90 | 0 | 0 |
| 1130 - Cracking (RC and Other) | | 91 | | 0 | 91 | 0 | 0 |

Form: BRI-12, Rev. 1/14
Inspection type: Fracture Critical,Routine
Inspection Date: 10/15/2018
Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD
Carried: I-95 & I-95 RAMPS
Crossed: MNRR & LOCAL ROADS
Inventory Route: NHS

FRACTURE CRITICAL MEMBERS / FRACTURE PRONE DETAILS

Inspectors:

| | |
|------------------|-------------------------------------|
| Lead Inspector: | Jake Kaufman |
| Inspector: | Task: |
| Gabrielson, Kurt | BSE - Inspector Rail - Inspector |
| Kaufman, Jake | BSE - Inspector Rail - Inspector |

Visits:

| Visit Date: | Temp: | Start Time: | End Time: |
|-------------|-------|-------------|-----------|
| 10/15/2018 | 66 | 07:30 AM | 02:00 PM |
| 10/22/2018 | 55 | 07:30 AM | 03:30 PM |
| 10/23/2018 | 62 | 08:00 AM | 03:30 PM |
| 10/24/2018 | 58 | 07:30 AM | 03:30 PM |
| 10/25/2018 | 51 | 07:30 AM | 03:30 PM |
| 10/26/2018 | 48 | 07:30 AM | 03:30 PM |
| 10/29/2018 | 53 | 07:30 AM | 03:30 PM |
| 10/30/2018 | 57 | 07:30 AM | 03:30 PM |
| 10/31/2018 | 66 | 07:30 AM | 03:30 PM |
| 11/01/2018 | 70 | 07:30 AM | 03:30 PM |
| 11/02/2018 | 68 | 07:30 AM | 03:00 PM |

Fracture Critical Inspection Frequency: 24 Months

Fracture Critical Type Code: D Two Girder System, riveted / bolted plate girders

Structure Type: Highway Bridges **Year Built:** 1958 **ADT:** 127300 **Year of ADT:** 2015 **% Truck:** 13

Access Equipment Needed: 80' Manlift and 45'/60' Hi-Rail.

Traffic Control Required: Left and Right Lane closures on I-95 NB & SB between Exits 7 & 9 and Right Lane closure on South State Street.

Reference to Plans: Project # 304-02

MEMBER/DETAIL TYPE # 1

Member/Details Type: A One or two steel girder systems

Fracture Critical: Yes

Fatigue Category: D **Steel Type:** A-242

Fatigue Prone: No

Description: Two main riveted built-up through box girders in Span 7.

Inspection Procedure: 100% Hands-on.

Condition Comments: There is moderate to heavy laminated rust with up to 1/16" deep section loss on top and bottom of flanges at the west side of girder 2. There is up to 1/16" deep section loss on the web and flanges of girder 1 at pier 6 and a 4' long section of shelf angle on the south side with heavy to laminated rust and 8" long x 3" wide rust hole in the horizontal leg.

Form: BRI-12, Rev. 1/14

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

Procedure Followed This Inspection? No

If No please explain: Span 7 was not in the scope of work for this inspection. It will be completed as a special inspection.

MEMBER/DETAIL TYPE # 2

Member/Details Type: O Super/sub integral framing details (floor beam/stringers)

Fracture Critical: Yes

Fatigue Category: C

Steel Type: A-373

Fatigue Prone: No

Description: Span 7 (39 Floorbeams).

Inspection Procedure: 100% Hands-on.

Condition Comments: Floorbeam 19 has section loss up to 14" wide x 1-13/16" remaining (original 2-1/4") in the bottom flange near mid-span (9.7% section loss in tension zone) and up to 8" high x 3/16" deep section loss along the base of the web (6.7% section loss in web area).

Procedure Followed This Inspection? No

If No please explain: Span 7 was not in the scope of work for this inspection. It will be completed as a special inspection.

MEMBER/DETAIL TYPE # 3

Member/Details Type: M Partial length welded cover plates

Fracture Critical: No

Fatigue Category: E'

Steel Type: A-373

Fatigue Prone: Yes

Description: Bottom flange partial length cover plate end welds with a flange thickness > 0.8 inches (Spans 1A-6 & 8-17).

Inspection Procedure: 100% Hands-on

Condition Comments: No significant deficiencies.

Procedure Followed This Inspection? Yes

If No please explain:

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

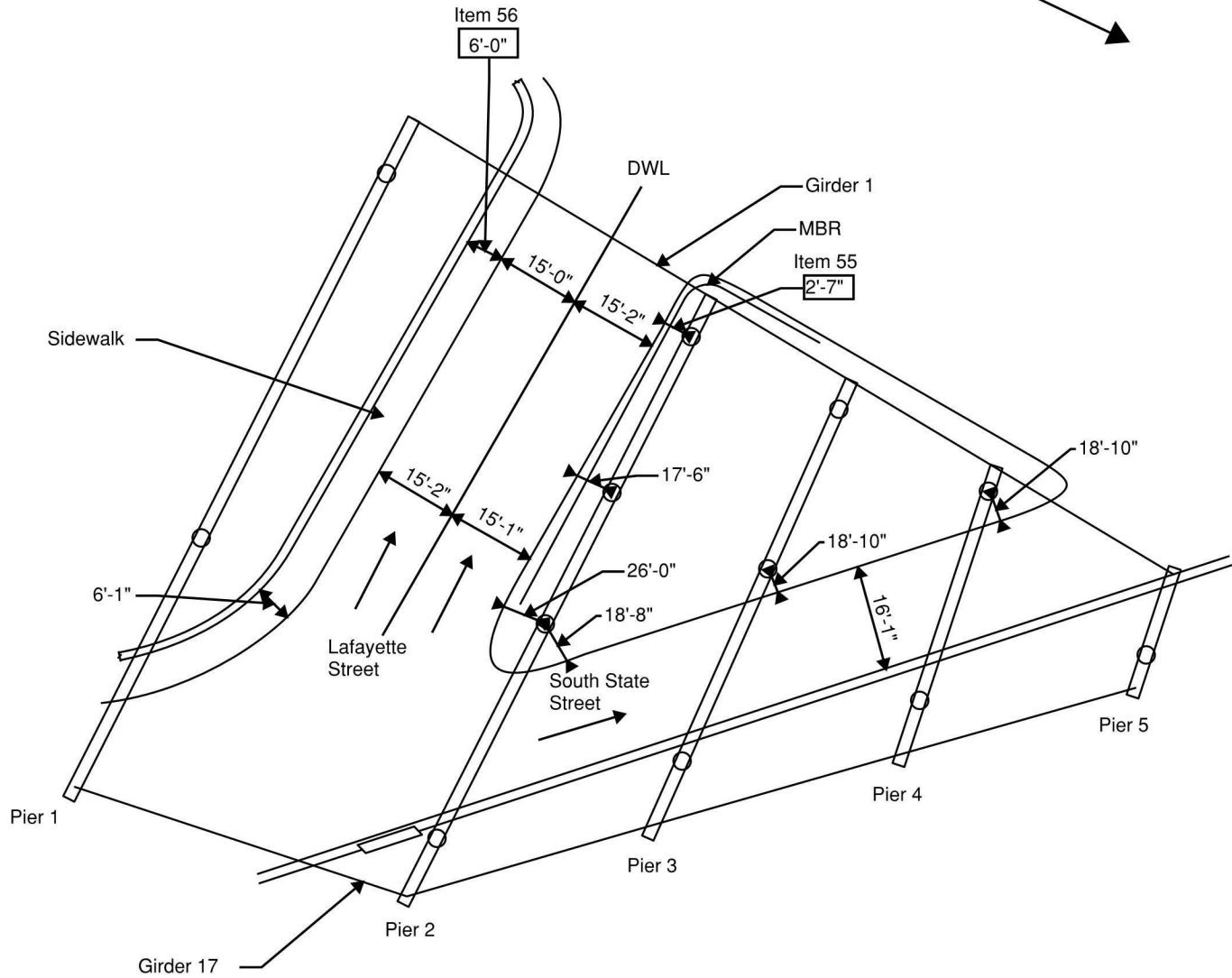
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, ABB (TSC)

DATE: 12/8/2016

BRIDGE NO.: 00032



Clearance Diagram - Spans 2-5

General Notes:

- All Vertical clearances are > 25'.

Legend:

DWL Dashed White Line

SWL Solid White Line

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

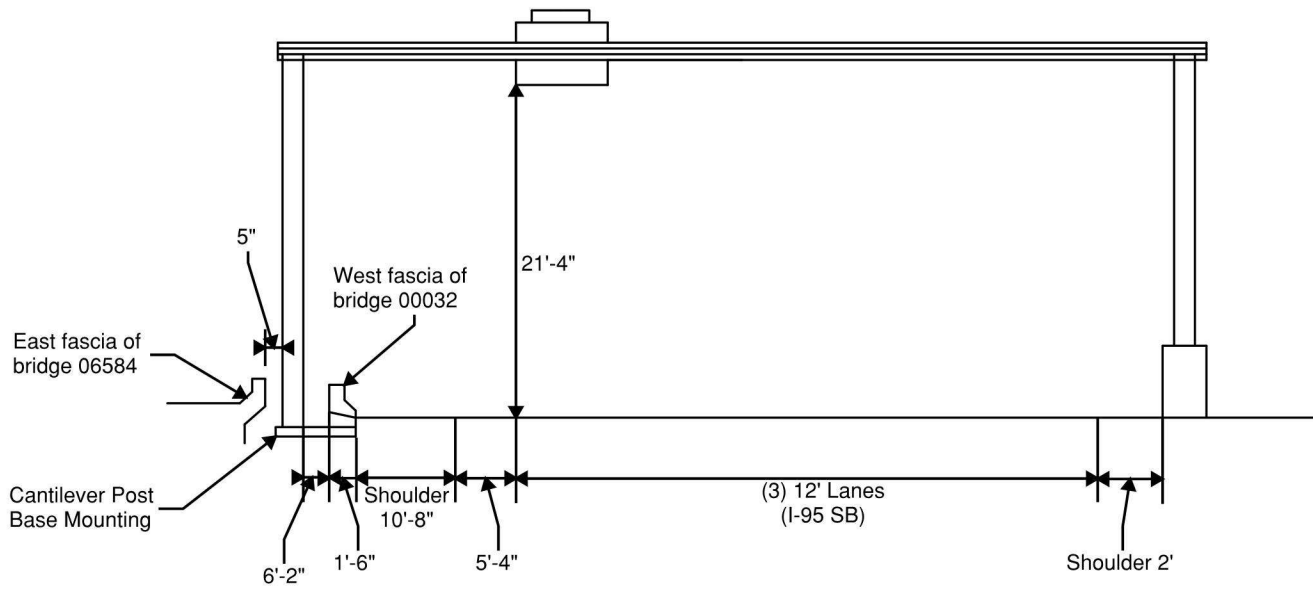
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, WEA, TE (TSC)

DATE: 12/19/2017

BRIDGE NO.: 00032



Clearance Diagram of Overhead Sign in Span 3

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

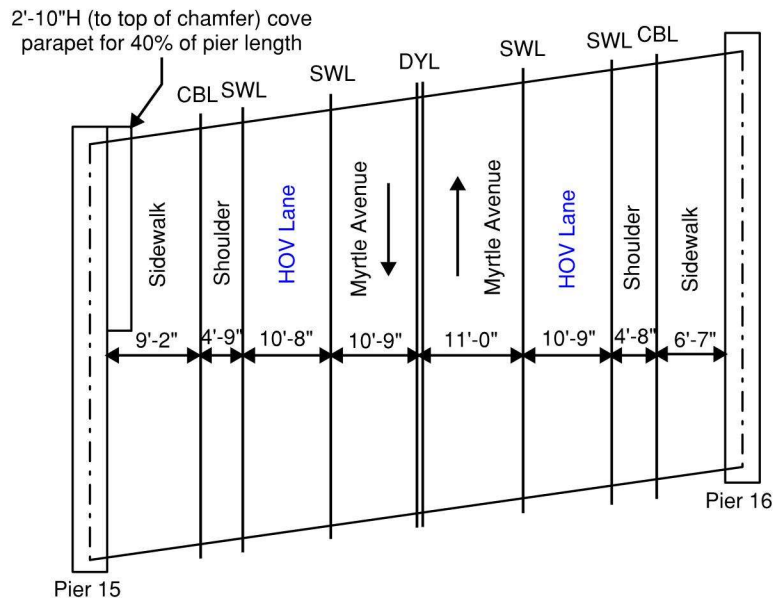
Inventory Route: NHS

CREW: CG, JJF

DATE: 10/20/2017

BRIDGE NO.: 00032

Log
Direction →



General Notes:
- All vertical clearances are over 25'

Legend:
DYL - Double Yellow Line
CBL - Curbline
SWL - Solid White Line

Clearance Diagram - Myrtle Avenue

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

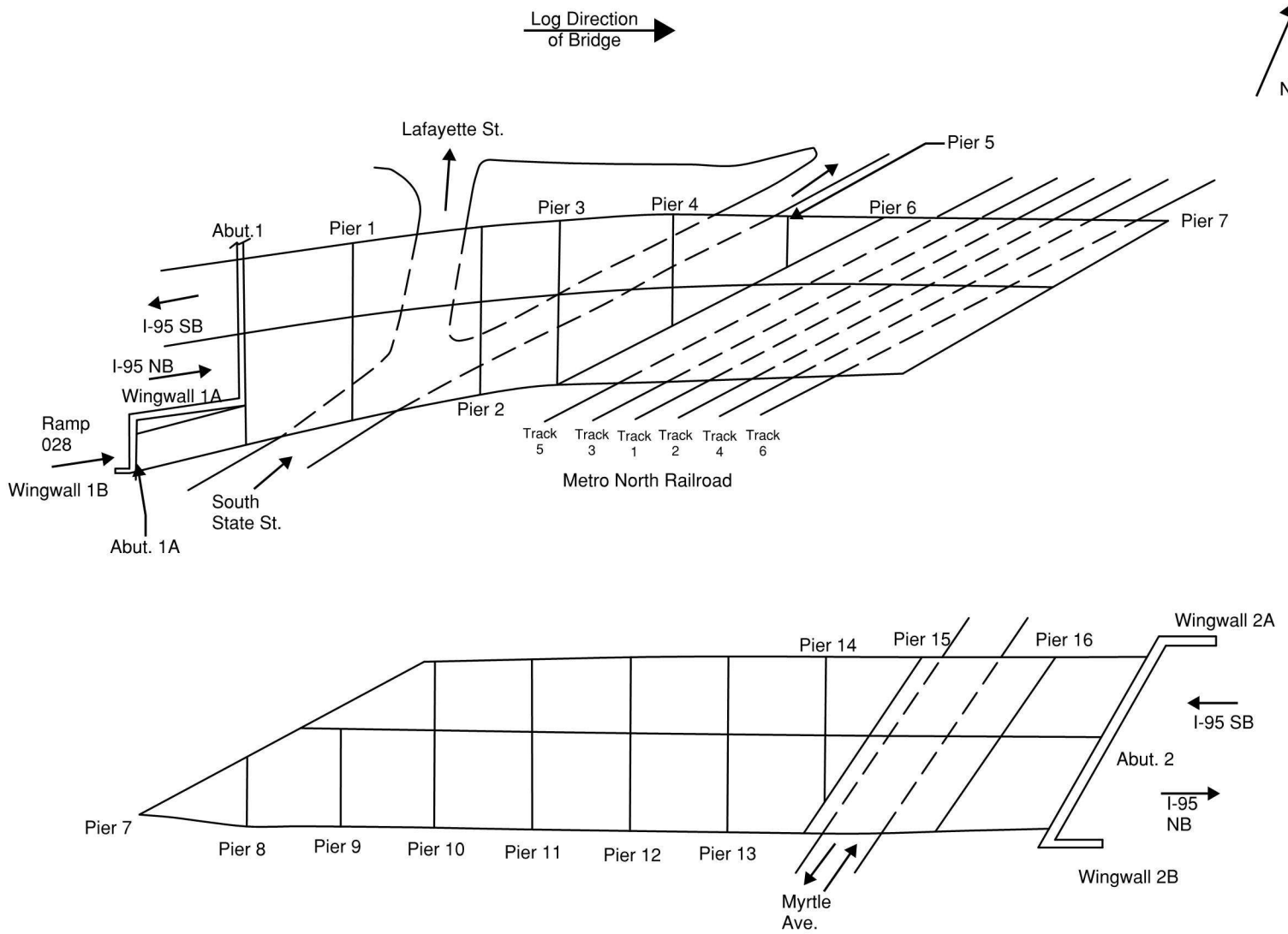
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032



Key Plan

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches**Inspection type:** Fracture Critical,Routine**Inspection Date:** 10/15/2018**Inspected by:** A. DiCesare Associates**Bridge No:** 00032**Town:** STAMFORD**Carried:** I-95 & I-95 RAMPS**Crossed:** MNRR & LOCAL ROADS**Inventory Route:** NHS

CREW: JJF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032

Top of Deck General Notes

Overlay: The overlay has isolated longitudinal and transverse cracks open up to 1/16" wide and there is minor wheel rutting. Many cracks are sealed, but are re-cracking. The paved over joint at abutment 1A has sealed cracks that has re-opened up to 1/8" wide.

Curbs: The curbs are monolithic with the parapets in all spans except spans 1A-3 of the northbound roadway, which have a safetywalk with integral concrete curbs. In Span 7, there is a concrete curb integral with the safetywalk along both fascia. The curbs have chipped edges and scrapes. The span 7 curb has spalls up to 6' long x full height x up to 3" deep with exposed rebar. There is a 2' long section of broken curb along the west fascia in span 7. The average curb reveals at the east curb is 6" in spans 1A-7 and 2-12" in spans 8-17. The west curb reveal is 6" in span 7 and 2-3/4" in the remaining spans.

Median: The concrete median has scrapes, vertical cracks open up to 1/8" wide with efflorescence and areas of hairline map cracking up to 12' long x full height. There are spalls up to 8' long x 6" high x 1" deep with exposed rebar. The longitudinal joint seal is missing/deteriorated at random locations.

Sidewalks: There are concrete safetywalks in the northbound roadway for spans 1A-3 and along both fascia in span 7. The east sidewalk in span 7 has a 1' long x 6" wide x 1" deep spall. There are longitudinal cracks up to 50' long x 1/4" wide.

Parapets: There are jersey shaped parapets along both fascia in all spans except the northbound side of spans 1A-3, which have concrete parapets with metal bridge rails mounted. The parapets in spans 8-17 have vertical hairline cracks up to full height with efflorescence, hairline map cracking and impact scrapes.

Railings: There is a two-pipe bridge railing on the east parapet in spans 1A-3 and the west parapet in span 1A. There is peeling paint and areas of heavy rust with rust holes at the post connections. Rails are loose or missing at the following locations: Span 1A the bottom and top rails are missing at the 1st post from abutment 1A. The bottom pipe at the 2nd post from pier 0 is missing. The bottom pipe at the 4th post from abutment 1A is missing. The top and bottom pipes at the west parapet are bent and disconnected. Span 1 the bottom pipe at the 3rd post from pier 0 has 75% section loss. The 2nd, 3rd and 5th bottom pipes are missing. Span 2 both pipes at the 1st post and the bottom at the 5th post from pier 1 have 100% section loss. Span 3 the bottom end pipe at the 2nd post from pier 2 is missing.





Fence: There is a 1'-6" high fence on top of the through girders in span 7 with light rust and up to 1" thick pack rust at the bottom.

Scuppers: All scupper grates are clogged up to 50% with the pipes clear, unless otherwise noted.

Expansion Joints: There are pourable seal deck joints at all deck joints, except the paved over joint at abutment 1A. Concrete headers at all joints have hairline cracks. [Accumulation of debris in shoulders.](#)

Approach Guiderail: There is a metal beam guiderail at the southeast and northeast corners of the bridge, and along the approach at the east side of span 1A with minor dents and scrapes, [detached posts](#), [missing spacer blocks](#), [missing/bent anchor bolts and loose nuts](#). The remaining are continuous concrete barriers with full height vertical hairline cracks.

Approach Pavement: Both approach pavements have transverse cracks up to full width x 1/4" wide [and minor wheel rutting.](#)

| | | | | | |
|--|----------------|----------------------------|---|-------|-------|
| REVISION  | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION  | DATE: | CREW: |
| REVISION  | DATE: | CREW: | REVISION  | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

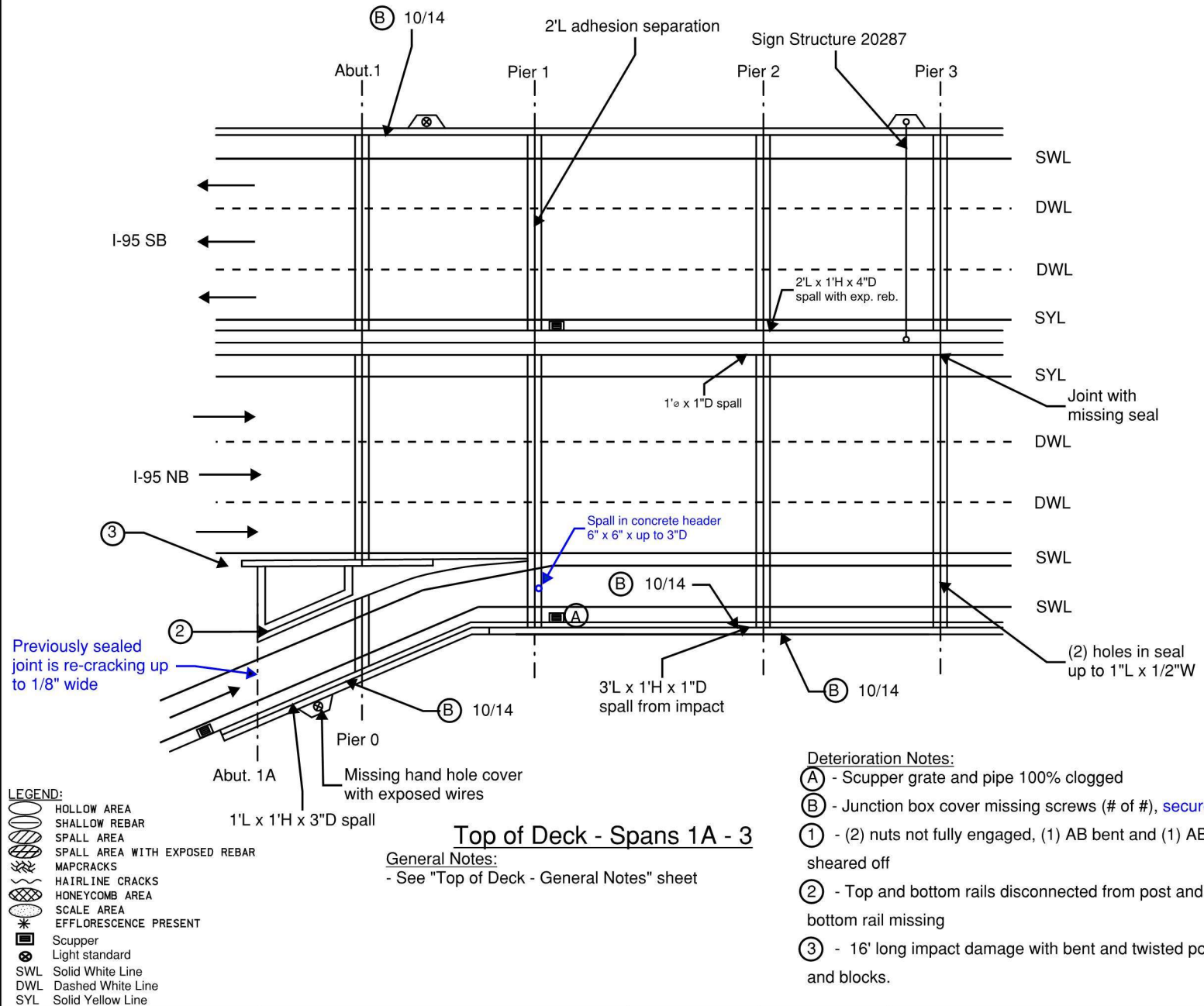
Inventory Route: NHS

CREW: JJF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032

Log Direction of Bridge →



| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

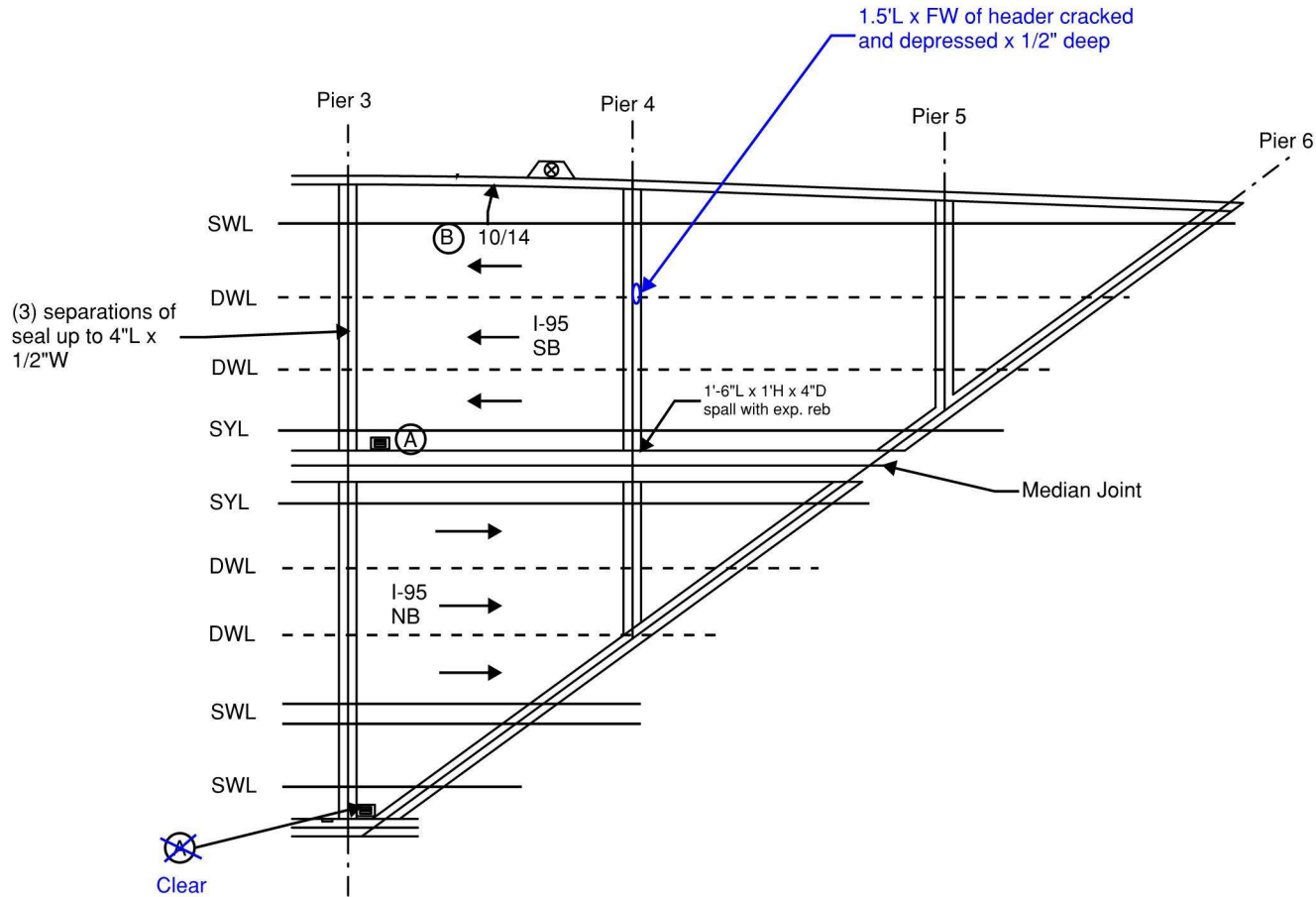
Inventory Route: NHS

CREW: JJF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032

Log Direction of Bridge →



Top of Deck - Spans 4 - 6

General Notes:
- See "Top of Deck - General Notes" sheet

Deterioration Notes:

- (A) - Scupper grate and pipe 100% clogged
- (B) - Junction box cover missing screws (# of #)

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Scupper
 - Light standard
 - SWL Solid White Line
 - DWL Dashed White Line
 - SYL Solid Yellow Line

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

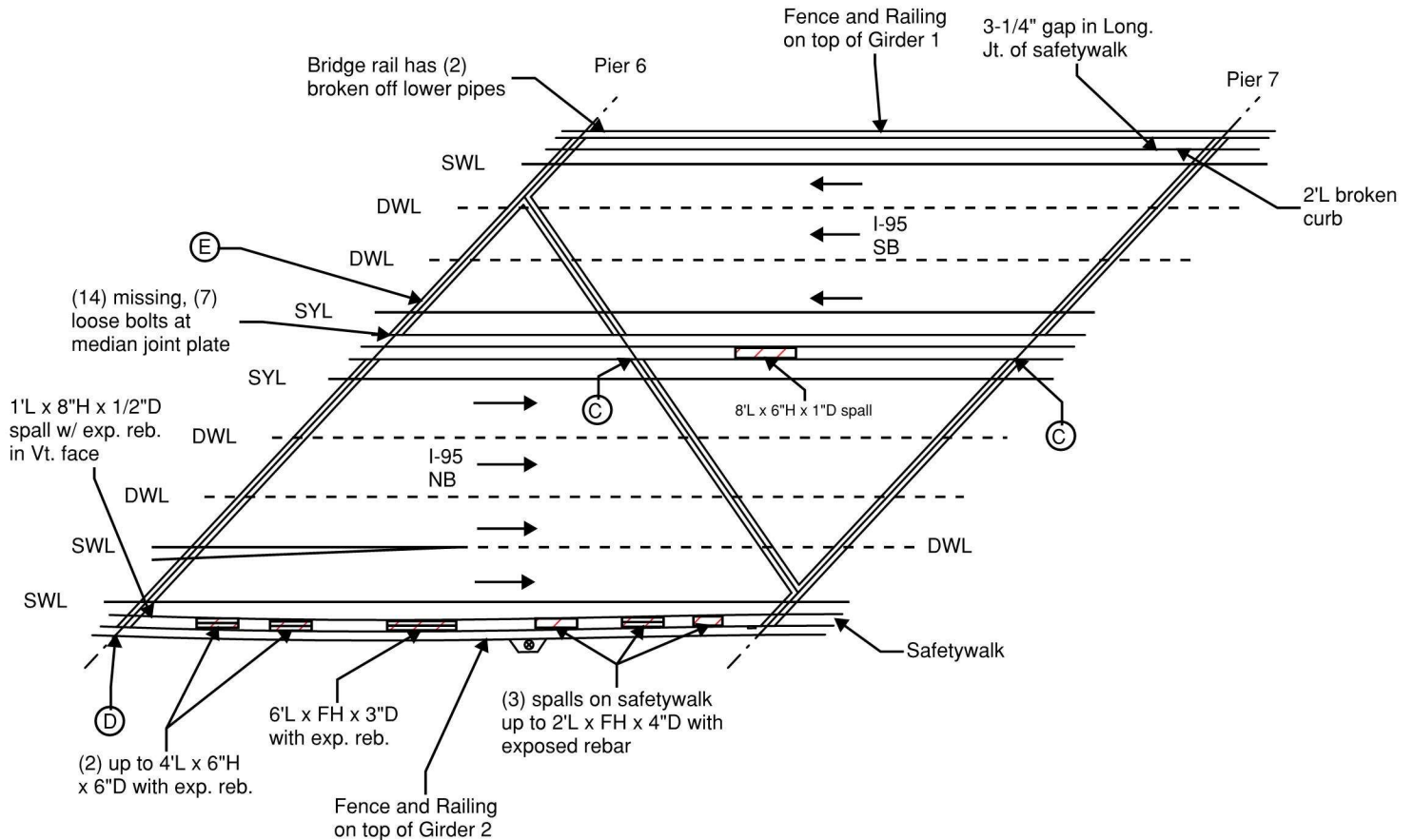
Inventory Route: NHS

CREW: JF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032

Log Direction of Bridge →



Top of Deck - Span 7

General Notes:
- See "Top of Deck - General Notes" sheet

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Scupper
 - Light standard
 - SWL Solid White Line
 - DWL Dashed White Line
 - SYL Solid Yellow Line

- Deterioration Notes:**
- (A) - Scupper grate and pipe 100% clogged
 - (B) - Junction box cover missing screws (# of #)
 - (C) - (9) bolts not fully engaged and (1) sheared off
 - (D) - Sidewalk is lifted up 2" at pier 6 joint
 - (E) - 6"L x 2"W hollow area in concrete header

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

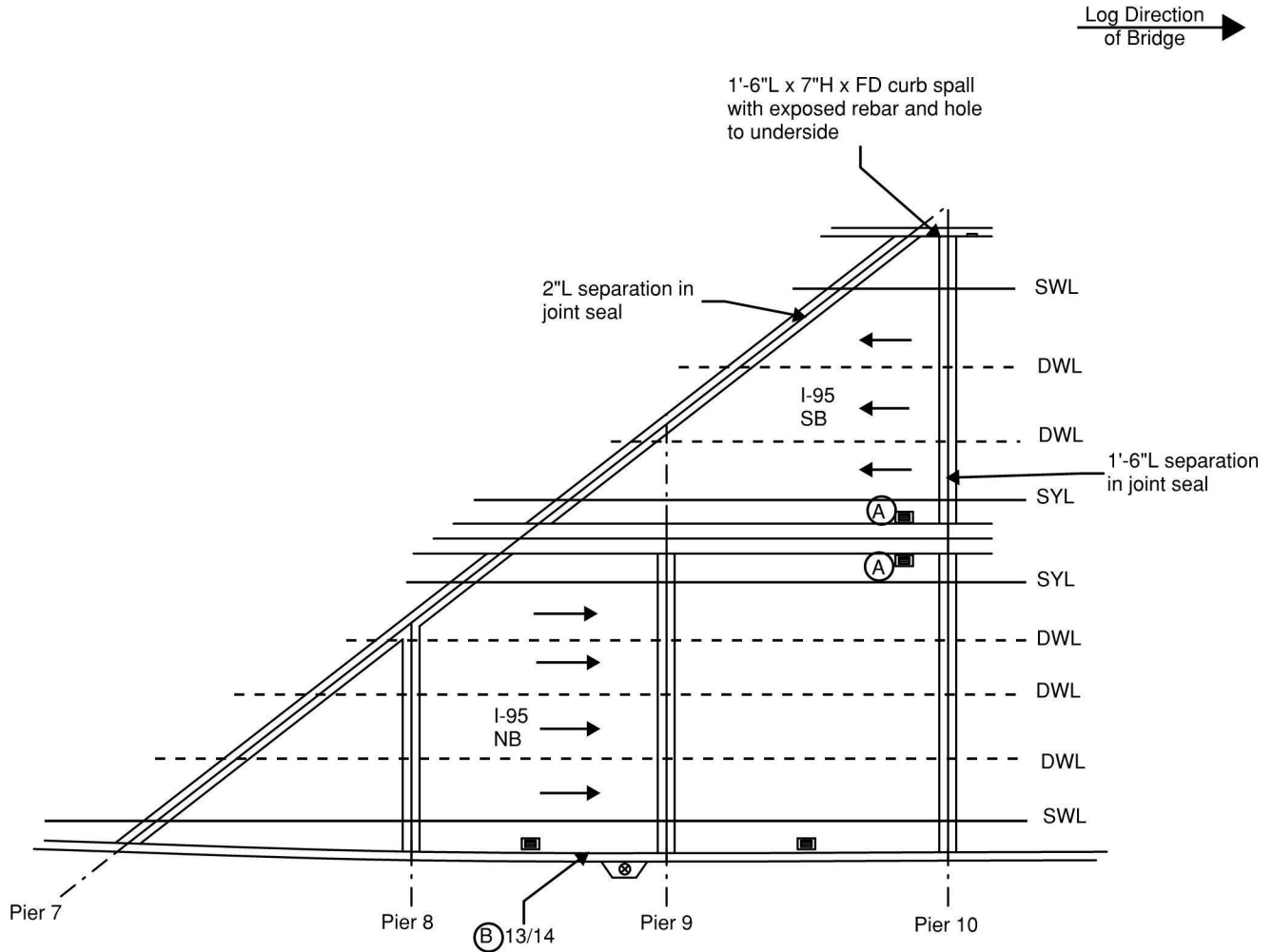
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032



- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Scupper
 - Light standard
 - SWL Solid White Line
 - DWL Dashed White Line
 - SYL Solid Yellow Line

Top of Deck - Spans 8 - 10

General Notes:
- See "Top of Deck - General Notes" sheet

Deterioration Notes:
 (A) - Scupper grate and pipe 100% clogged
 (B) - Junction box cover missing screws (# of #)

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

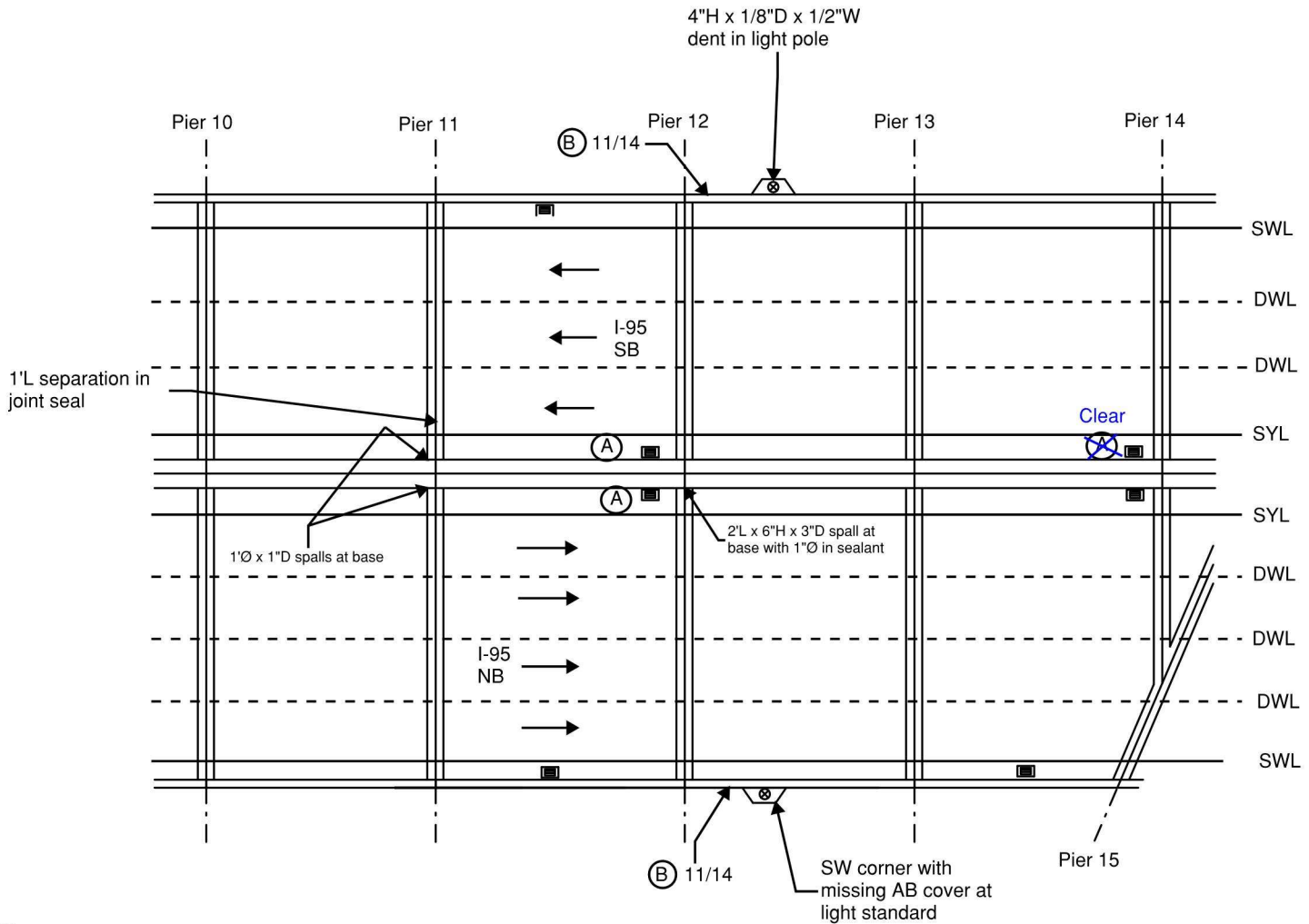
Inventory Route: NHS

CREW: JJF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032

Log Direction of Bridge →



Top of Deck - Spans 11 - 14

General Notes:
- See "Top of Deck - General Notes" sheet

Deterioration Notes:
 (A) - Scupper grate and pipe 100% clogged
 (B) - Junction box cover missing screws (# of #)

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Scupper
 - Light standard
 - SWL Solid White Line
 - DWL Dashed White Line
 - SYL Solid Yellow Line

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

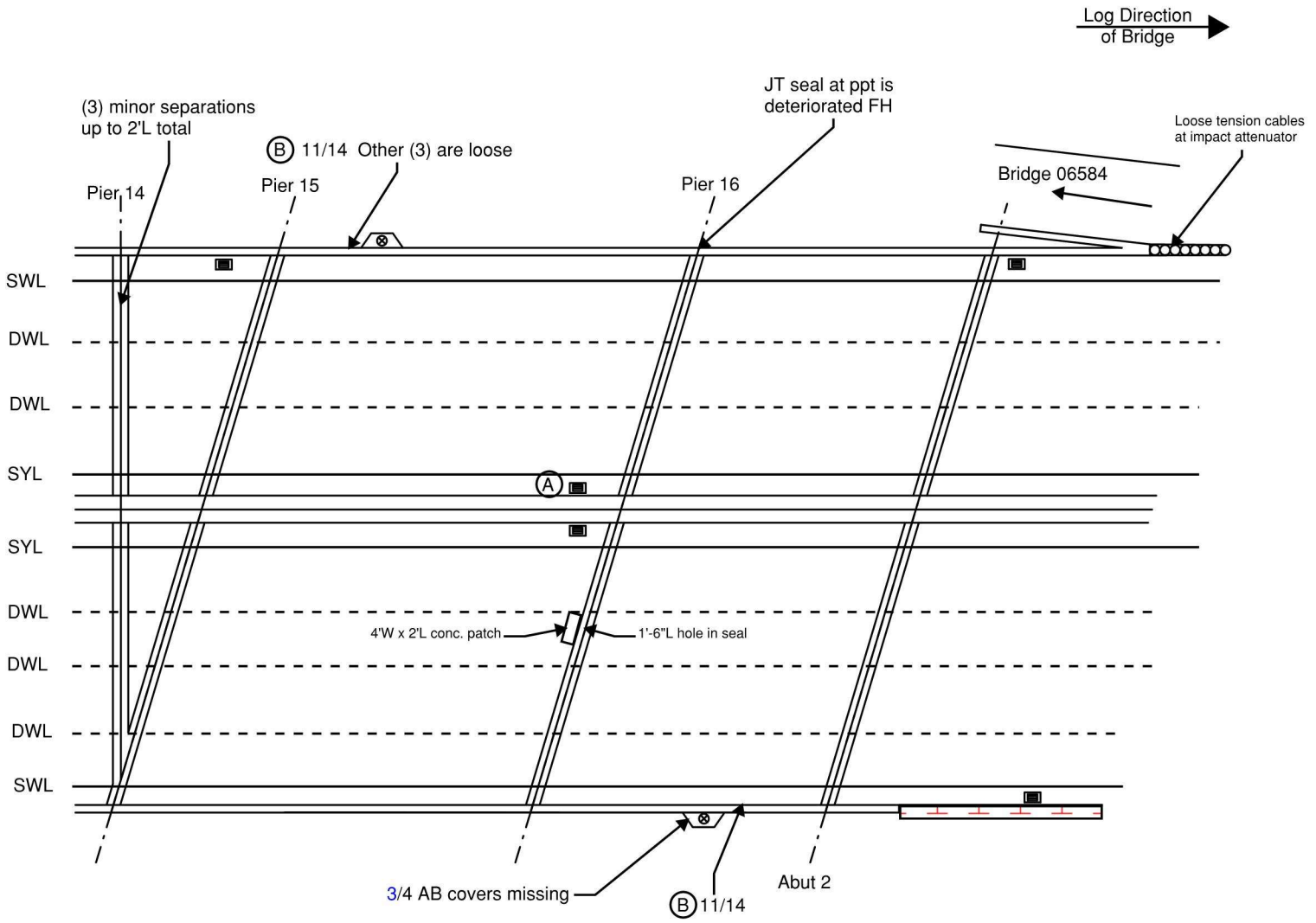
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032



- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Scupper
 - Light standard
 - SWL Solid White Line
 - DWL Dashed White Line
 - SYL Solid Yellow Line

Top of Deck - Spans 15 - 17

General Notes:
- See "Top of Deck - General Notes" sheet

Deterioration Notes:
 (A) - Scupper grate and pipe 100% clogged
 (B) - Junction box cover missing screws (# of #)

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

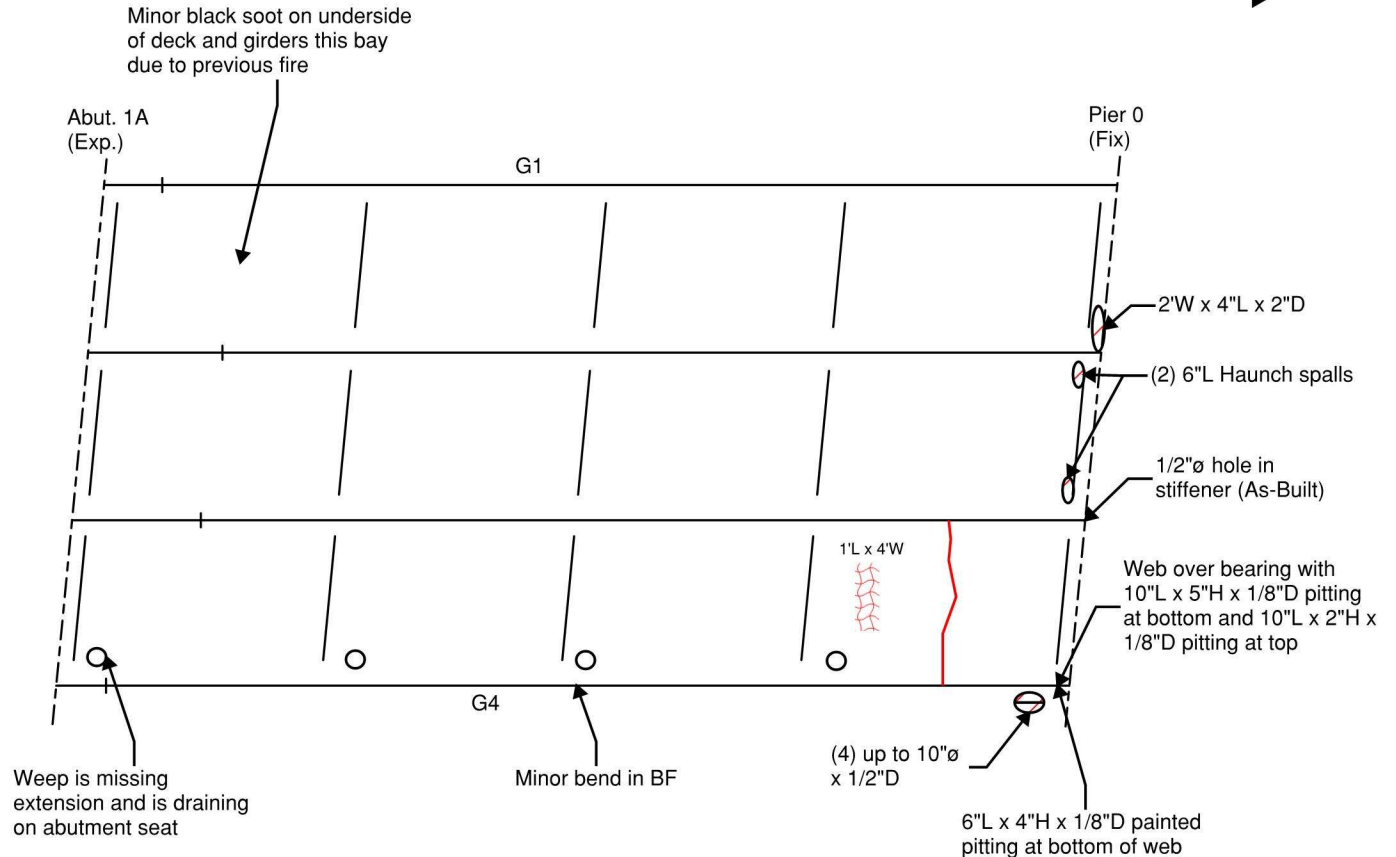
Inventory Route: NHS

CREW: JJF, MEB (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032

NOT INSPECTED DUE TO HOMELESS ACTIVITY



Underside of Deck and Framing - Span 1A

General Notes:

- Evidence of past leakage at fascia girders
- Fiber optic cable attached to the east fascia of the bridge
- There is a man-made shelter in bays 1 and 2.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- Weep pipe
- Cover plate end weld

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

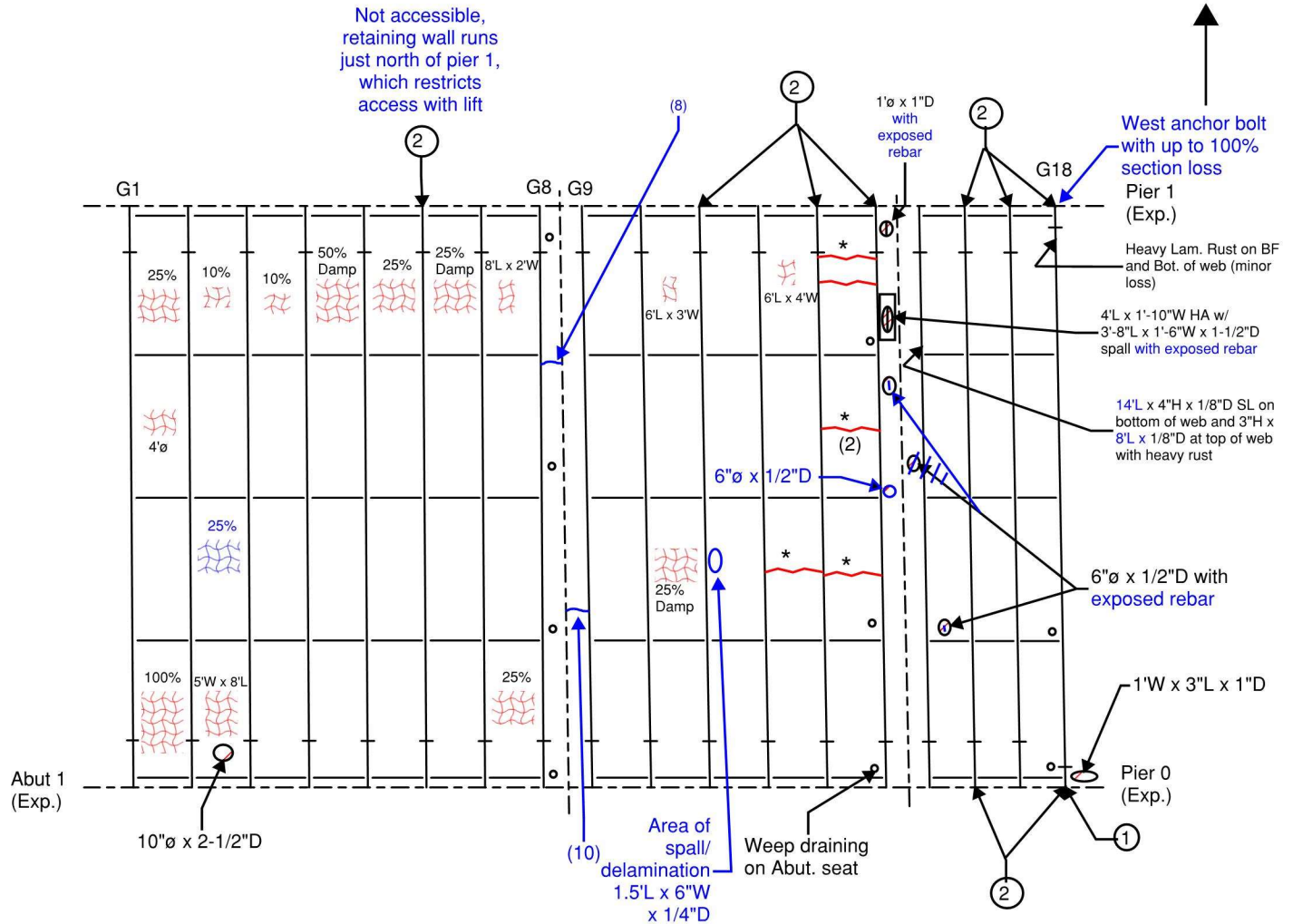
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, MEB (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 1

General Notes:

- Longitudinal joint filler material is missing and deteriorated.
- Random fixed bearing bolts are tilted.
- All beam ends were previously painted over.
- Active leakage/Evidence of past leakage at random location over pier 4 along the longitudinal joint in the median.
- Smoke damage on girder in Bays 15 and 16.
- There are gaps under random elastomeric pads due to small shim plates.
- All missing or short weep pipes have the potential to drain onto superstructure members.

Deterioration Notes:

- ① - Web with 8"L x up to 11"H x 1/16"D (Avg.) on north side and 5"ø x 1/8"D pitting at top of web on south side (Not accessible, retaining wall runs just north of pier 1, which restricts access with lift).
- ② - Up to 1/4" gap/IR between Bearing plate and pedestal (Not accessible, retaining wall runs just north of pier 1, which restricts access with lift).

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- Weep pipe
- Cover plate end weld

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

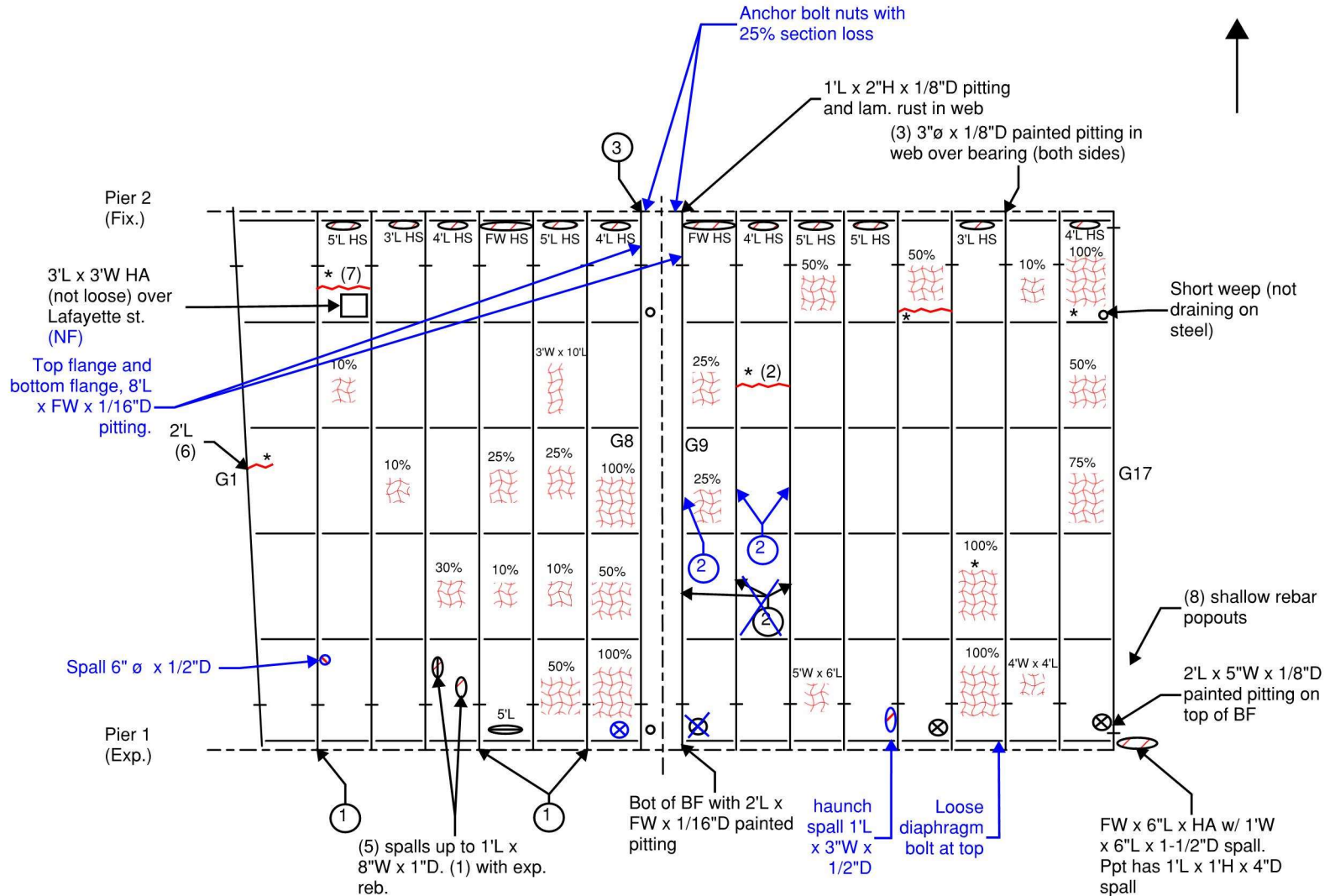
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, MEB (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 2

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCE PRESENT
 - Weep pipe
 - Cover plate end weld
 - Scupper pipe
 - Haunch Spall
 - Not Found

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- All bearings at pier 2 have up to 1/2" gap/IR between bearing plate and pedestal with laminated rust - (1)

Deterioration Notes:

- (1) - Up to 1/2" gap/IR between Bearing plate and pedestal and Lam. Rust
- (2) - BF bent up 1" over 5'L
- (3) - 8'L x 4"H x 1/8"D loss to bot. of web and FW x 1"H perf at bottom of Br. stiff (east side). West side FW x 1/4"D pitting in web beyond brg. and FW x 2"H x 1/8"D pitting in brg. stiff. 8% web loss and 30% bearing loss.

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

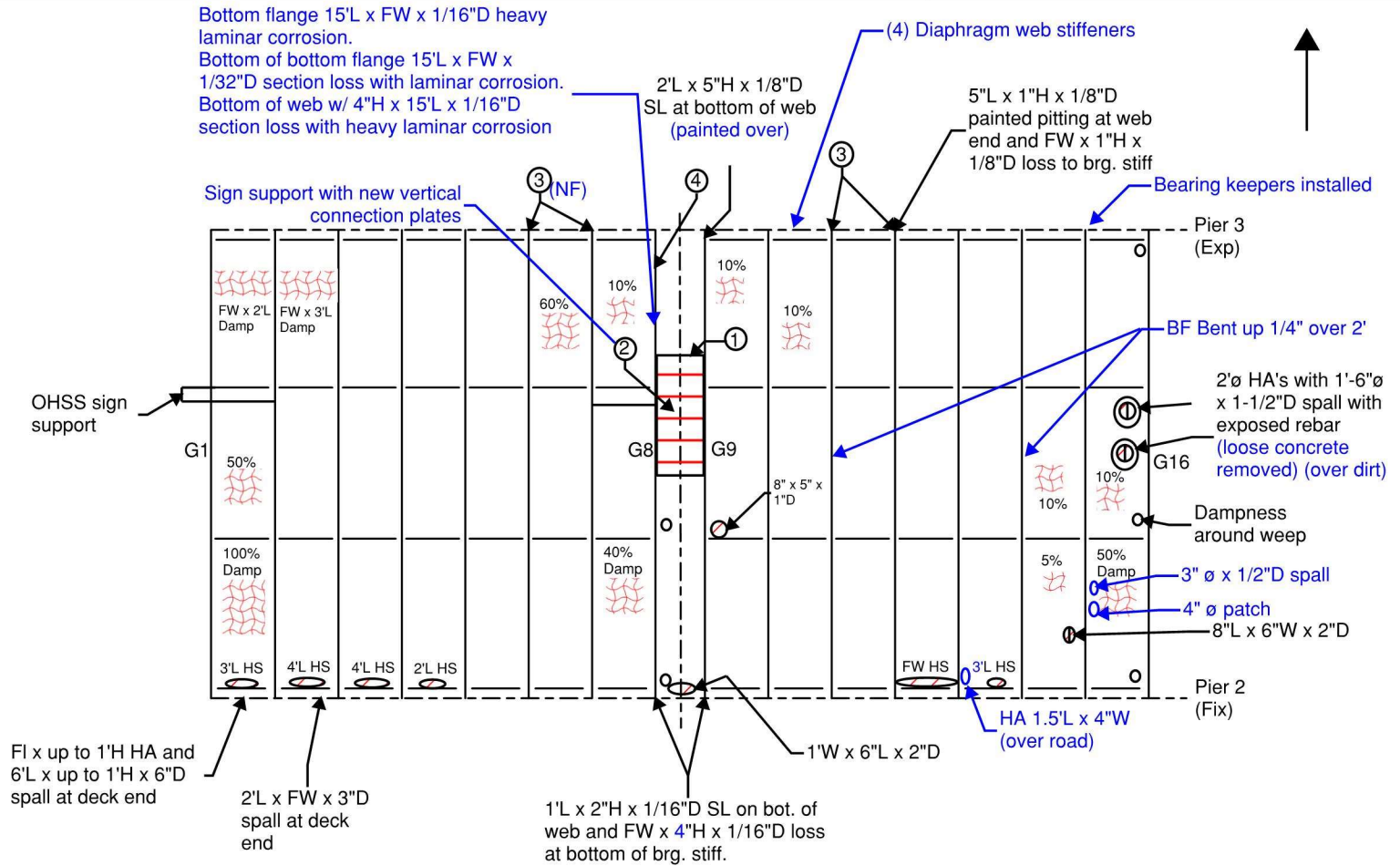
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, MEB (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 3

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Weep pipe
 - Cover plate end weld
 - Scupper pipe
 - Haunch Spall
 - Not Found

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Fixed bearings at pier 2 with heavy rust and up to 1/2" IR between plates.
- Heavy accumulation of bituminous debris on pier 3 cap.
- Superstructure has light rust on 50% of area this span.
- Random bearing plates curled up at pier 3 up to 1/4" out of plane.

Deterioration Notes:

- ① - Timber planks under patched concrete
- ② - Bolted sign supports with severe rust and up to 5" L x 1" W x 3/16" D SL on top and bot. flanges
- ③ - Gap under mas. plate up to FL x 1" W x up to 1" H at south and west sides (shim PLs undersized)
- ④ - 25' L x up to 3" H x 1/8" D SL on bottom of web and 25' L x 5-1/2" W x 1/16" D SL on BF. At brg. with 2' L x 6" H x 1/8" D SL in web and FW x 6" H x 1/8" rem. at brg. stiff and 2.5" x 1.5" 1/4" ø rust hole (<5% web loss) Top flange 25' L x FW laminar corrosion with 1/32" D section loss.

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

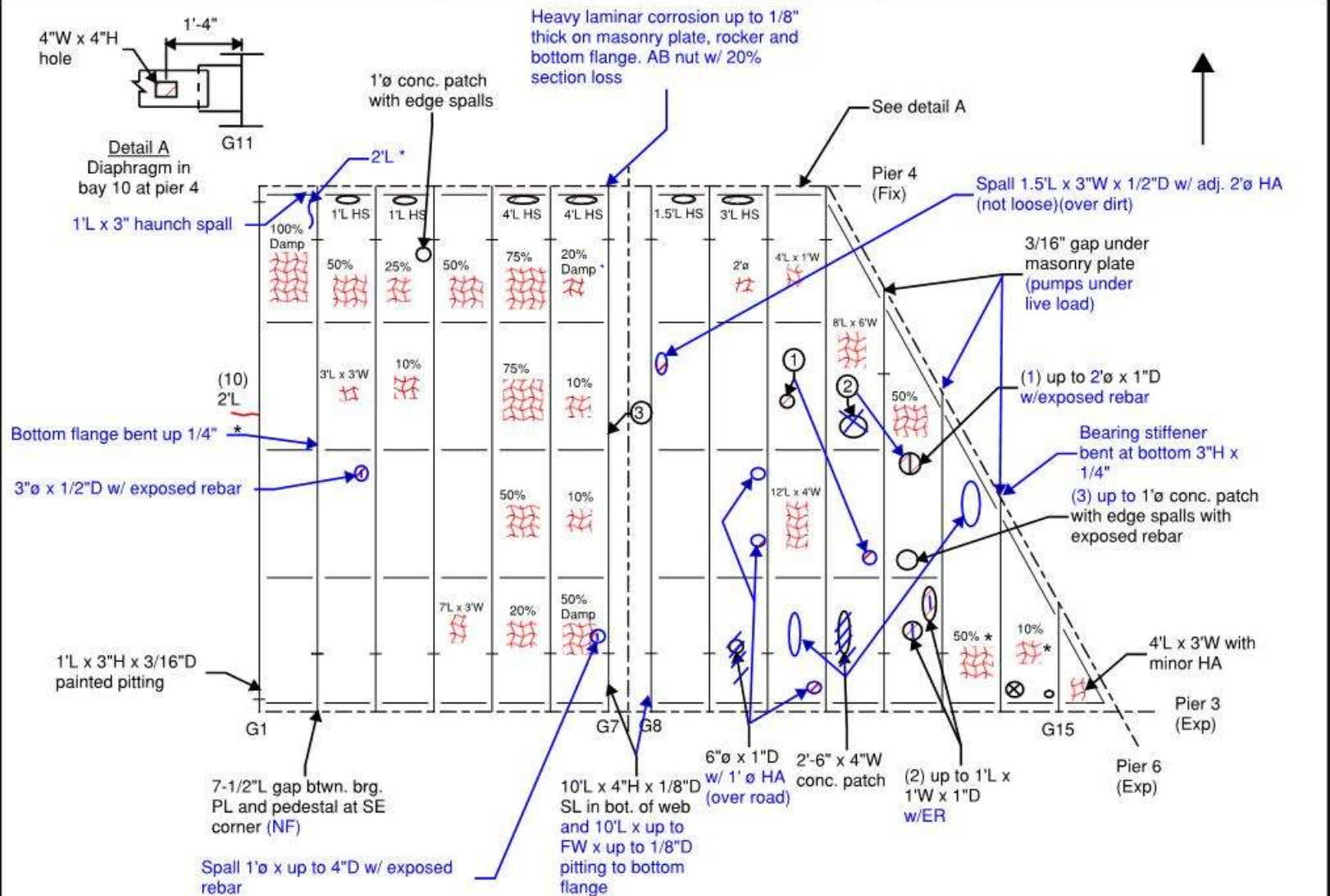
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: ABB, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 4

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAP CRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Weep pipe
 - Cover plate end weld
 - Scupper pipe
 - Haunch Spall

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Expansion bearings at pier 4 have heavy rust and 1/4" IR between plates and laminar corrosion, due to active leakage.
- Heavy debris and loose joint material in all bays at pier 3.
- There are areas of light scale in the deck.
- Bearings at pier 6 have tilted anchor bolts and anchor bolt nuts backed off up to 1/2" high.
- Underside of deck at median with transverse hairline cracks

Deterioration Notes:

- ① - (16) spalls up to 6"ø x 1"D
- ② - 2'L x 2'W conc. patch with edge spalls with exposed rebar
- ③ - 2'L x 2-1/4"W x 3/16"D painted SL on top of BF and 2'L x 2"H x 1/18"D pitting on web.

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

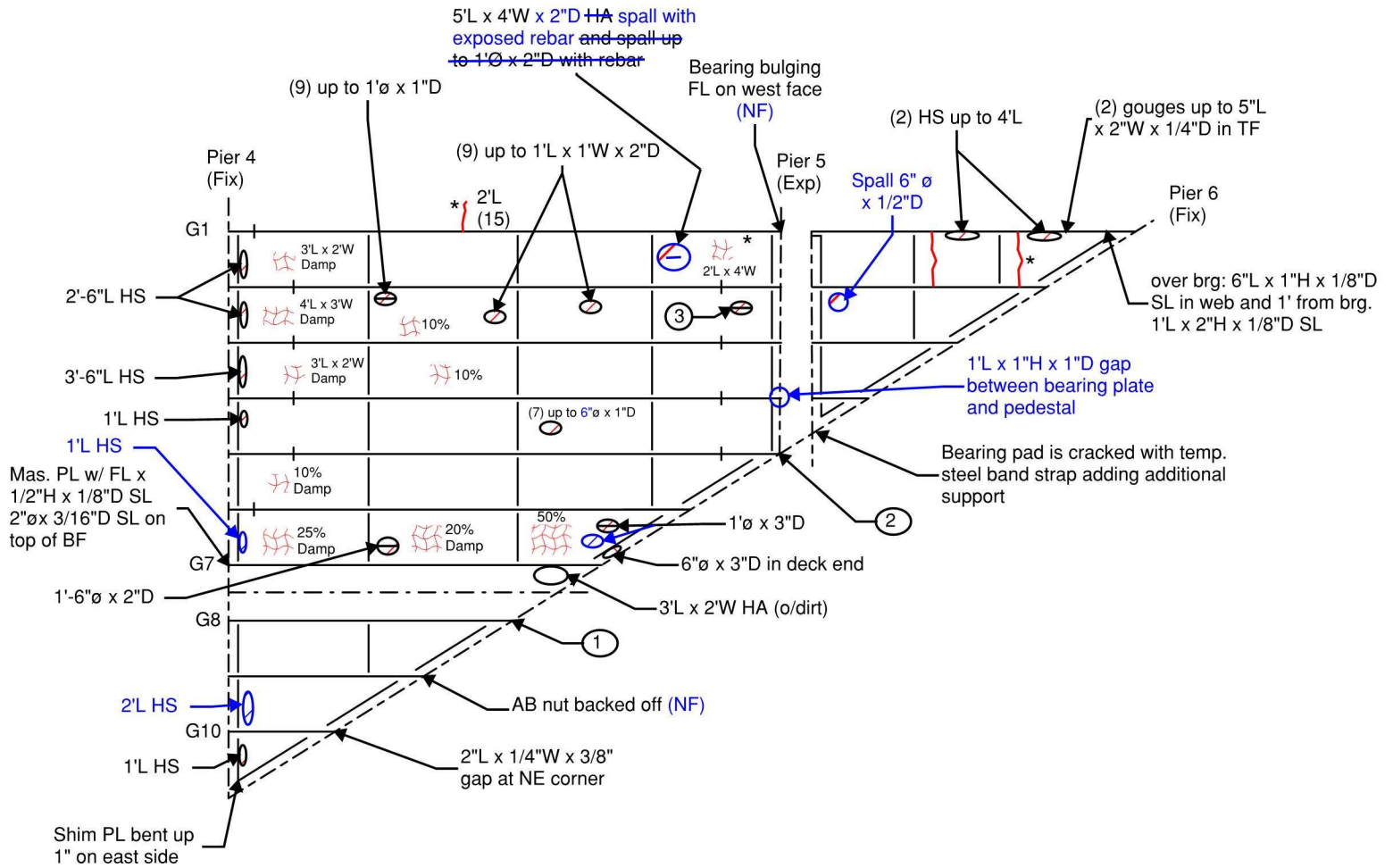
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: ABB, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Spans 5 and 6

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCE PRESENT
 - Weep pipe
 - Cover plate end weld
 - Scupper pipe
 - HS Haunch Spall
 - NF Not Found

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Pounding noise at pier 5 deck joint under live load,
- 1/4" IR between bearing plates at pier 4 and 5.
- Gap/IR between end haunch and end diaphragm top flange at random locations at pier 4

Deterioration Notes:

- ① - 1/4" IR under sliding PL, east AB is too short, and masonry plate is twisted 3/8" ccw.
- ② - 1'-L x 6"-H x 3"-D spall in ped. undermines brg. by 1/8"W. Fabric pad is deteriorated full length x 3" wide on N and W sides. Heavy rust and IR between bearing plates.
- ③ - (5) spalls with exposed rebar up to 1'ø x 1"D with (4) concrete patches up to 7" x 4".

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, TE (TSC)

DATE: 11/30/2016

BRIDGE NO.: 00032

Not inspected this inspection.

Span 7 Girders General Notes

Inside of Box Girders

- Top and bottom flanges have areas of moderate rust and debris build-up.
- The girder 2 bottom flange and the bottom 6" high of the web at the north half have heavy laminated rust due to ponding water.
- Girder 2 at the 7th diaphragm from the south end has minor pack rust up to 1/16" thick between the bolted angle connection and the diaphragm plate.
- There are missing junction box covers on the interior with exposed wires at girder 1 at the 1/3 point from the south end and girder 2 at the 1/3 point from the north end.
- The utility conduit in girder 2 vibrates under live load at the top of the intermediate diaphragms at random locations. Utility wrap is beginning to rust and abrasion rust is forming.

Boxes Above Deck Level

- The top flange has random areas of heavy rust.
- The web and vertical stiffeners (up to 6" high above the deck level) have laminated rust and section loss up to 5' long x 6" high x 1/4" deep.
- There are vertical stiffeners with impact damage at both girders, rusted through holes at the bottom up to full width x 2" high and up to 1/4" deep section loss.

Boxes Below Deck Level

- The girders in span 7 below the top of deck were not inspected this inspection ~~due to inability to get track access~~. They will be inspected during a special inspection ~~in 2017~~.

Access to Boxes

- All access doors are broken/open, except the south door for girder 2 that is bolted shut. There are exposed wires at the base of all access doors.
- There are 10"Ø openings in the webs with missing covers (18 total).
- The concrete end blocks/doorways have spalls up to 2'-8" wide x 1'-6" high x 3" deep with exposed rebar with 75% section loss to the rebar (Girder 2 at the south end).

| | | | | | |
|--|----------------|----------------------------|---|-------|-------|
| REVISION  | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION  | DATE: | CREW: |
| REVISION  | DATE: | CREW: | REVISION  | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

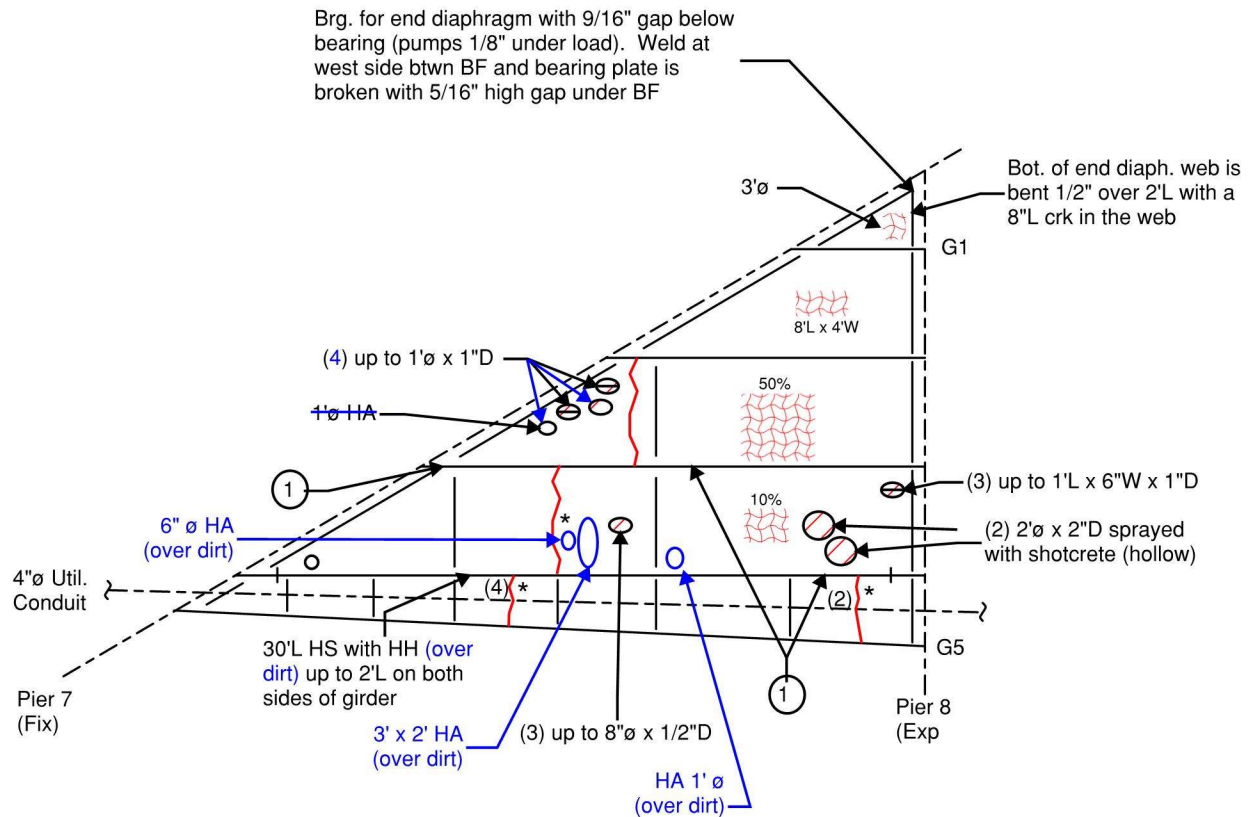
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 8

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Up to 1/4" painted over IR between bearing plates at bearings.

Deterioration Notes:

- ① - Rebar welded to top of girder bottom flange. Transverse weld up to 1"L

LEGEND:

| | |
|--|-------------------------------|
| | HOLLOW AREA |
| | SHALLOW REBAR |
| | SPALL AREA |
| | SPALL AREA WITH EXPOSED REBAR |
| | MAPCRACKS |
| | HAIRLINE CRACKS |
| | HONEYCOMB AREA |
| | SCALE AREA |
| | EFFLORESCENCE PRESENT |
| | Weep pipe |
| | Cover plate end weld |
| | Scupper pipe |
| | Haunch Spall |

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

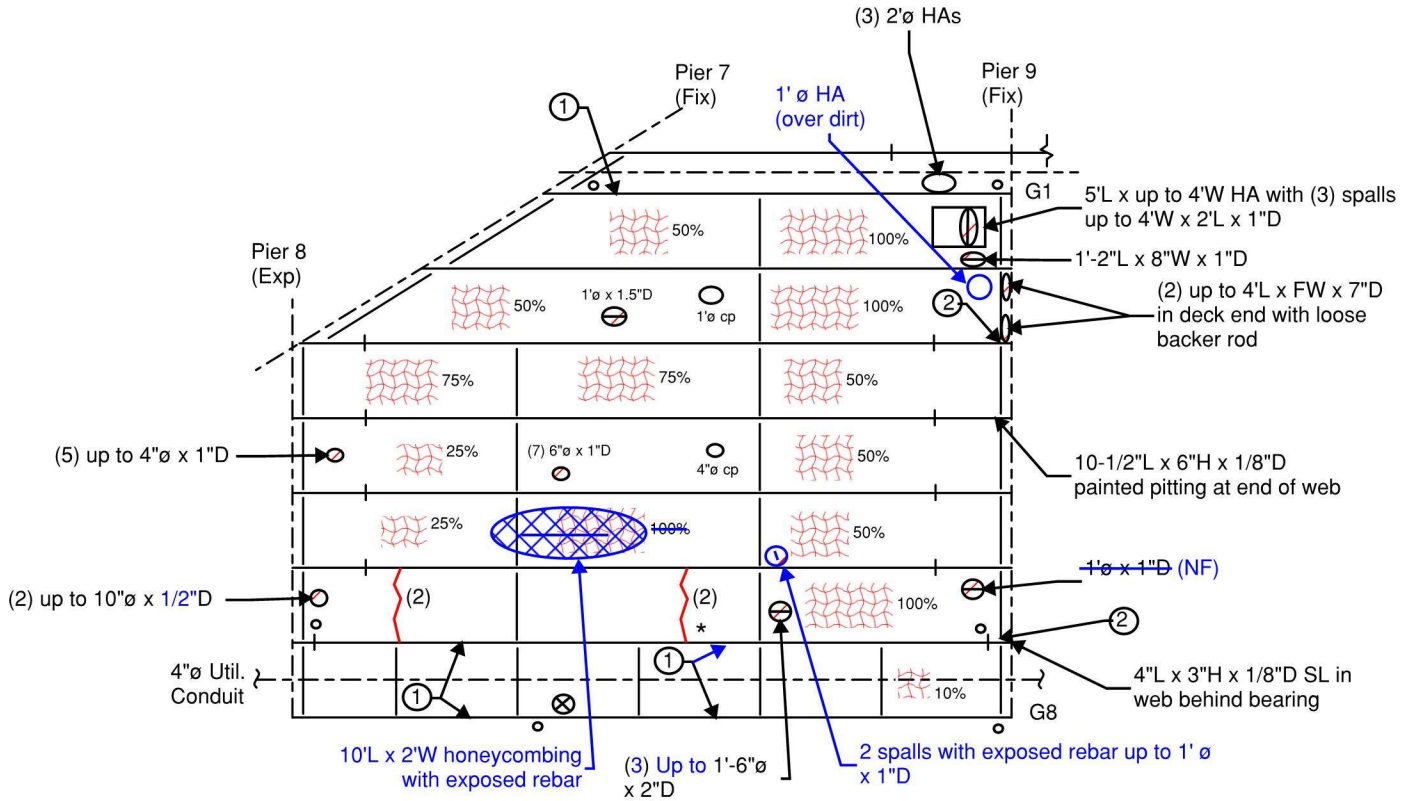
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 9

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.

- Bearings at piers 8 and 9 have up to 1/2" painted over IR between bearing plates.

Deterioration Notes:

① - Rebar welded to top of girder bottom flange. Transverse weld up to 1" L

② - FL crack in horizontal diaph. to web stiffener weld.

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

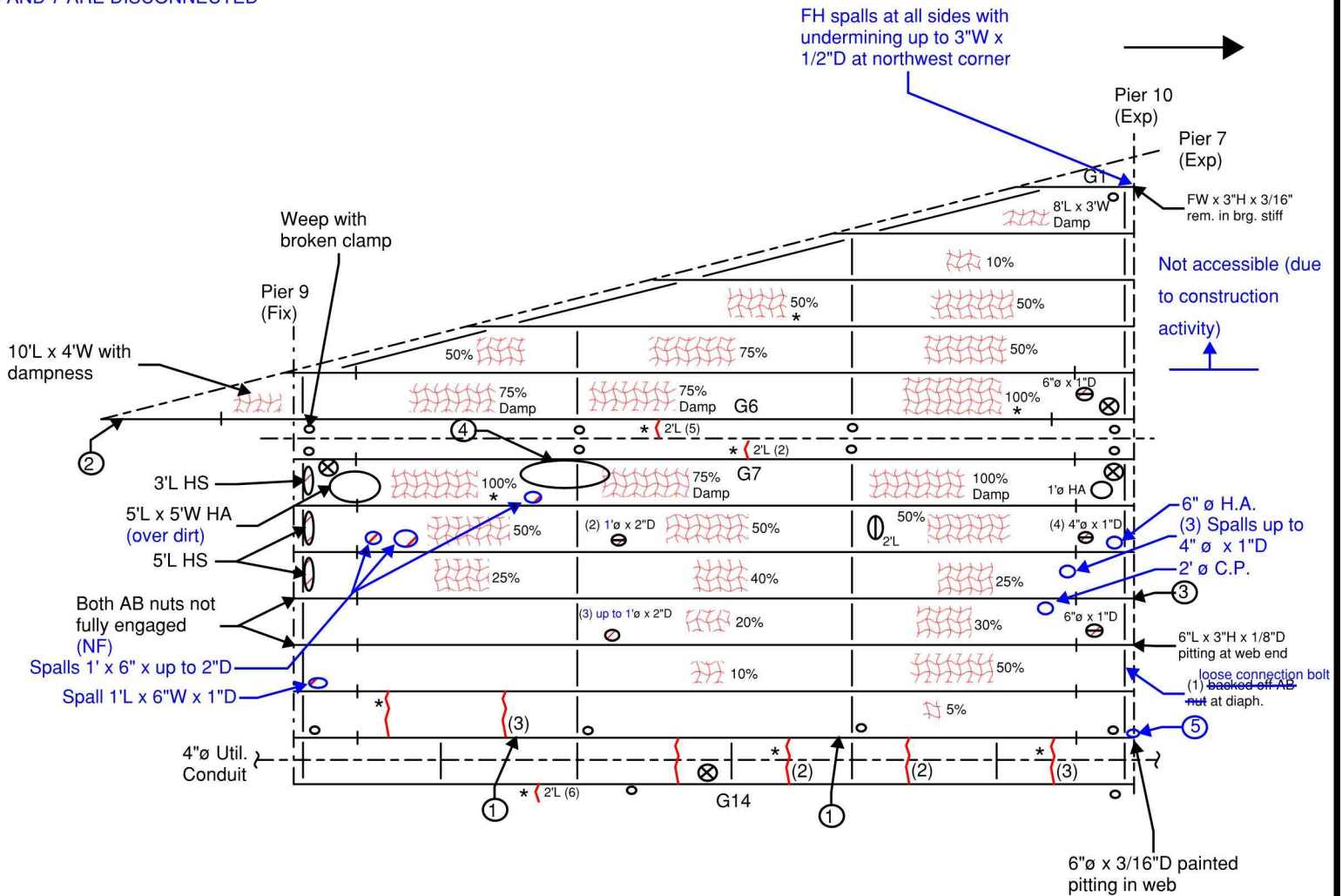
Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032

PIER 9 AND 7 ARE DISCONNECTED



Underside of Deck and Framing - Span 10

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Fixed bearings at pier 9 have up to 1/2" painted over IR between bearing plates.
- Expansion bearings have gaps/IR up to 1/8" and are covered with Bit. debris.
- Joint material hanging on piers in random bays.
- Girder 1 and 2 bearings at pier 10 pump up to 1/16" under live load

Deterioration Notes:

- ① - Rebar welded to top of girder bottom flange. Transverse weld up to 1"L
- ② - 8'L x 3"H x 1/8"D painted pitting in web and 1'L x 3"W x 1/8"D SL in BF
- ③ - 10-1/2"L x 4"H x 1/8"D painted pitting in web and FW x 4"H x 3/16"D SL in br. stiff.
- ④ - 10'L x 6"W HA with rust stains and scale (over dirt)
- ⑤ - Top flange of diaphragm at G13 with 100% L.O.S up to FW x 3"L and bottom flange of diaphragm with delaminated rust, up to FW x 3'L x 1/16"D section loss. Bottom flange of G13 up to FW x 2'L with 1/16" delamination rust, negligible section loss.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- Weep pipe
- Cover plate end weld
- Scupper pipe
- Haunch Spall

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

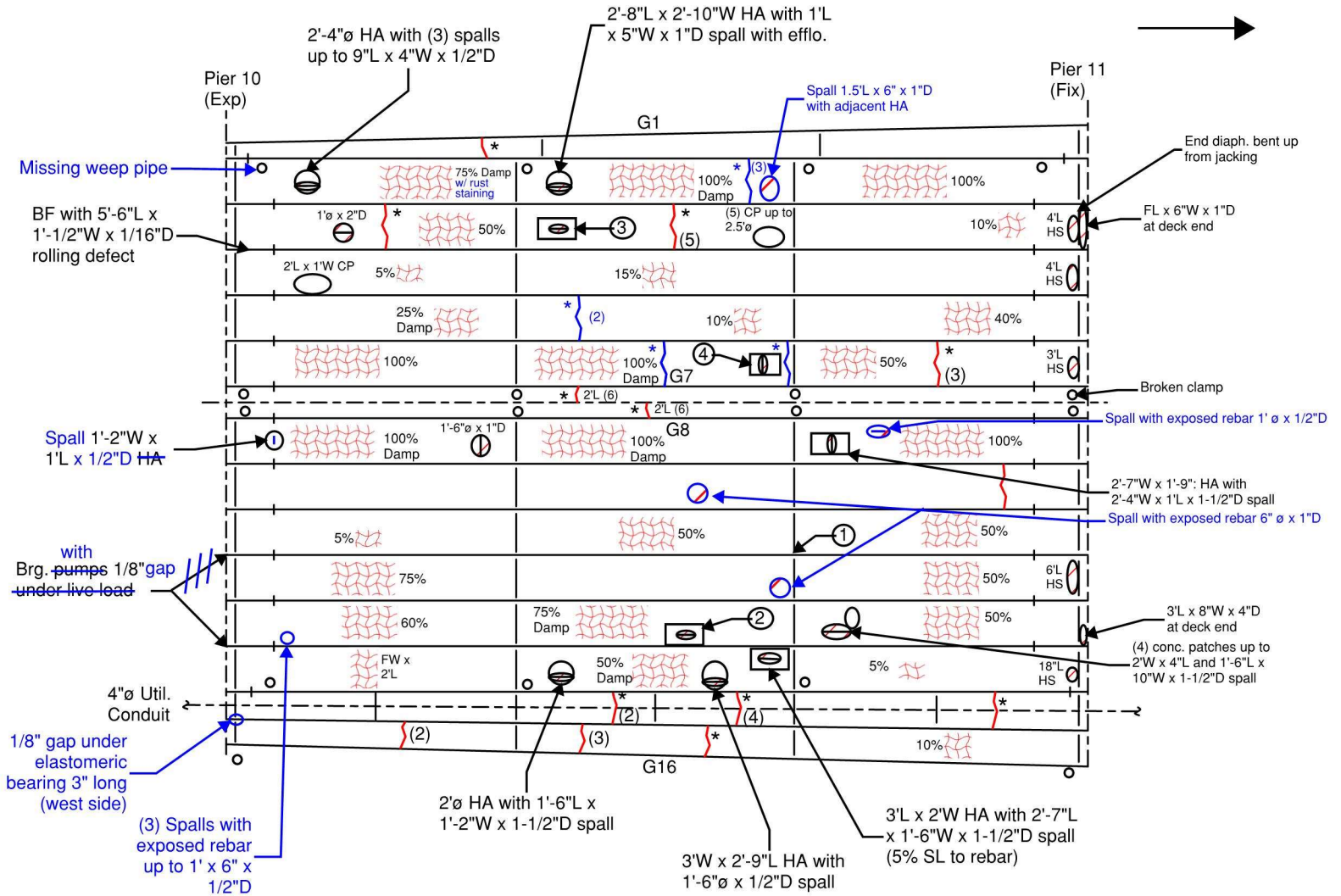
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JSM, TE (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- Weep pipe
- Cover plate end weld
- Scupper pipe
- Haunch Spall

Underside of Deck and Framing - Span 11

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Fixed bearings at pier 11 have up to 3/4" painted over IR between bearing plates.
- Random bearings have shotcrete.
- Debris and joint material around random bearings on pier caps.

Deterioration Notes:

- ① - FL crack in horizontal diaph. to web stiffener weld.
- ② - 3'-6" L x 2'-3" W HA with 2' L x 1'-10" W x 2-1/2" D spall
- ③ - 1'-5" L x 1' W HA with 1' Ø x 1" D spall
- ④ - 3' L x 2'-8" W HA (over dirt) with 2'-4" L x 2'-8" W x 1-1/2" D spall with exp. rebar (5% SL to rebar)

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

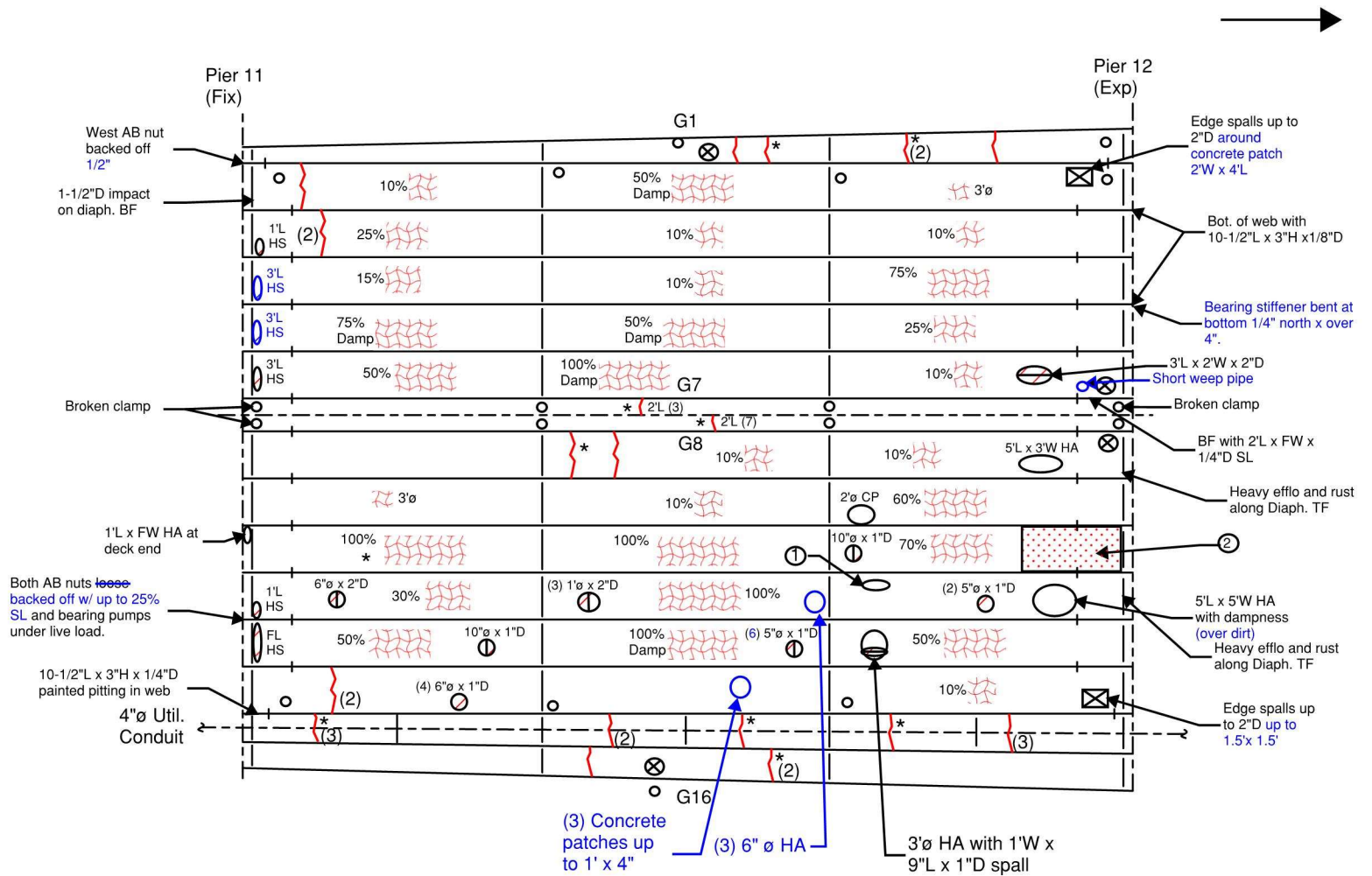
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JSM, TE (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Weep pipe
 - Cover plate end weld
 - Scupper pipe
 - Haunch Spall
 - Patched deck opening

Underside of Deck and Framing - Span 12

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Fixed bearings at pier 11 have up to 1/2" IR between bearing plates.
- Girders have light to moderate rust on 70% of surface. Girder ends 8'L painted over
- Debris and joint material around random bearings on pier caps.

Deterioration Notes:

- ① - 2'L x 8'W Hollow area (over road).
- ② - 8'L x FW with moderate scale with efflorescence with (3) Concrete patches with exposed rebar up to 6"Ø.

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

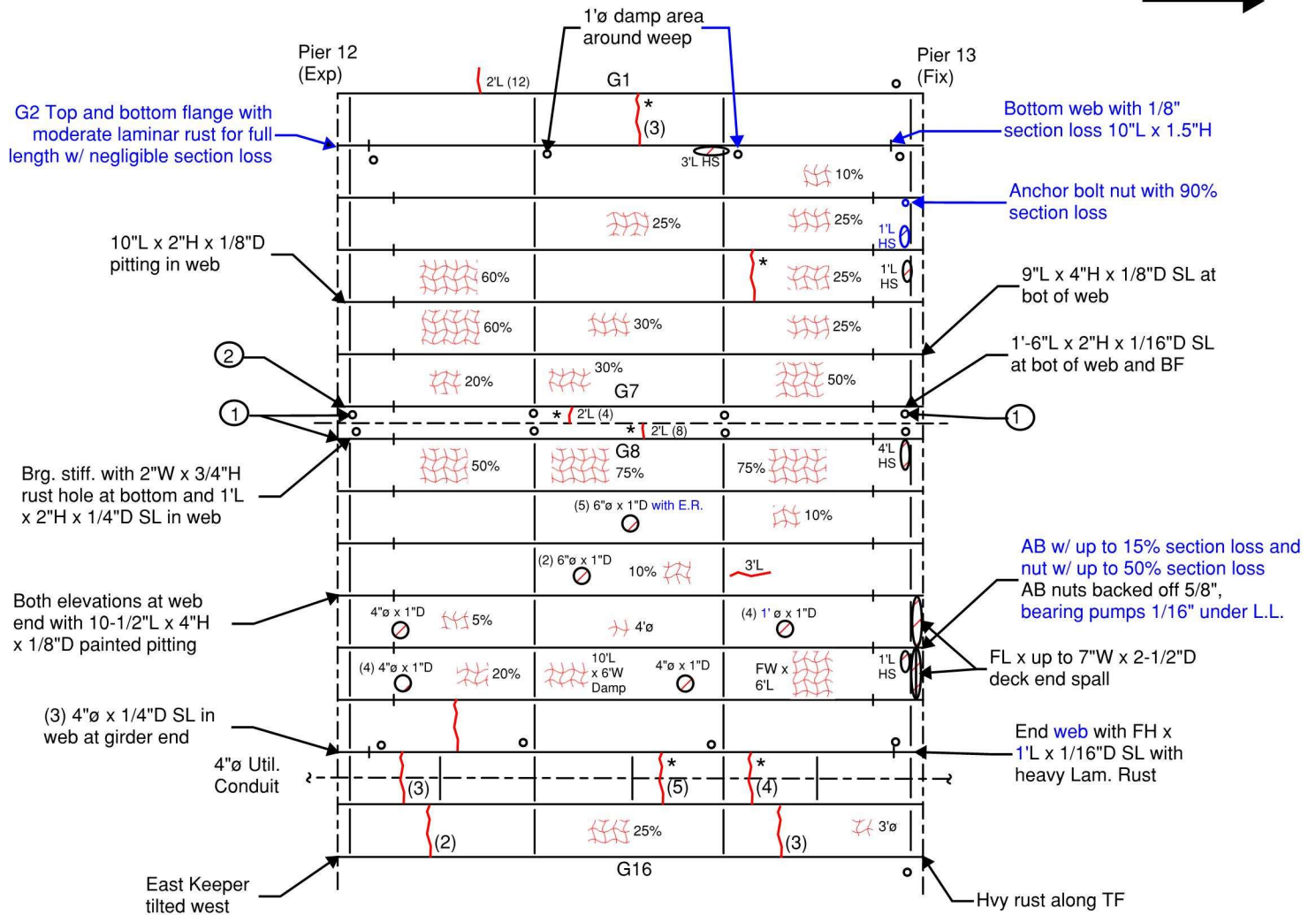
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 13

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Fixed bearings at pier 13 have up to 1/2" IR between bearing plates and isolated bearings have heavy lam rust.
- Girder ends have painted over 1/16" deep pitting.
- Bituminous debris on pier caps at both piers.
- End diaphragms with heavy rust and minor section loss

Deterioration Notes:

- ① - Weep is disconnected from the supports (broken clamps)
- ② - Web: 10-1/2"L x 5"H x up to 1/4"D SL

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

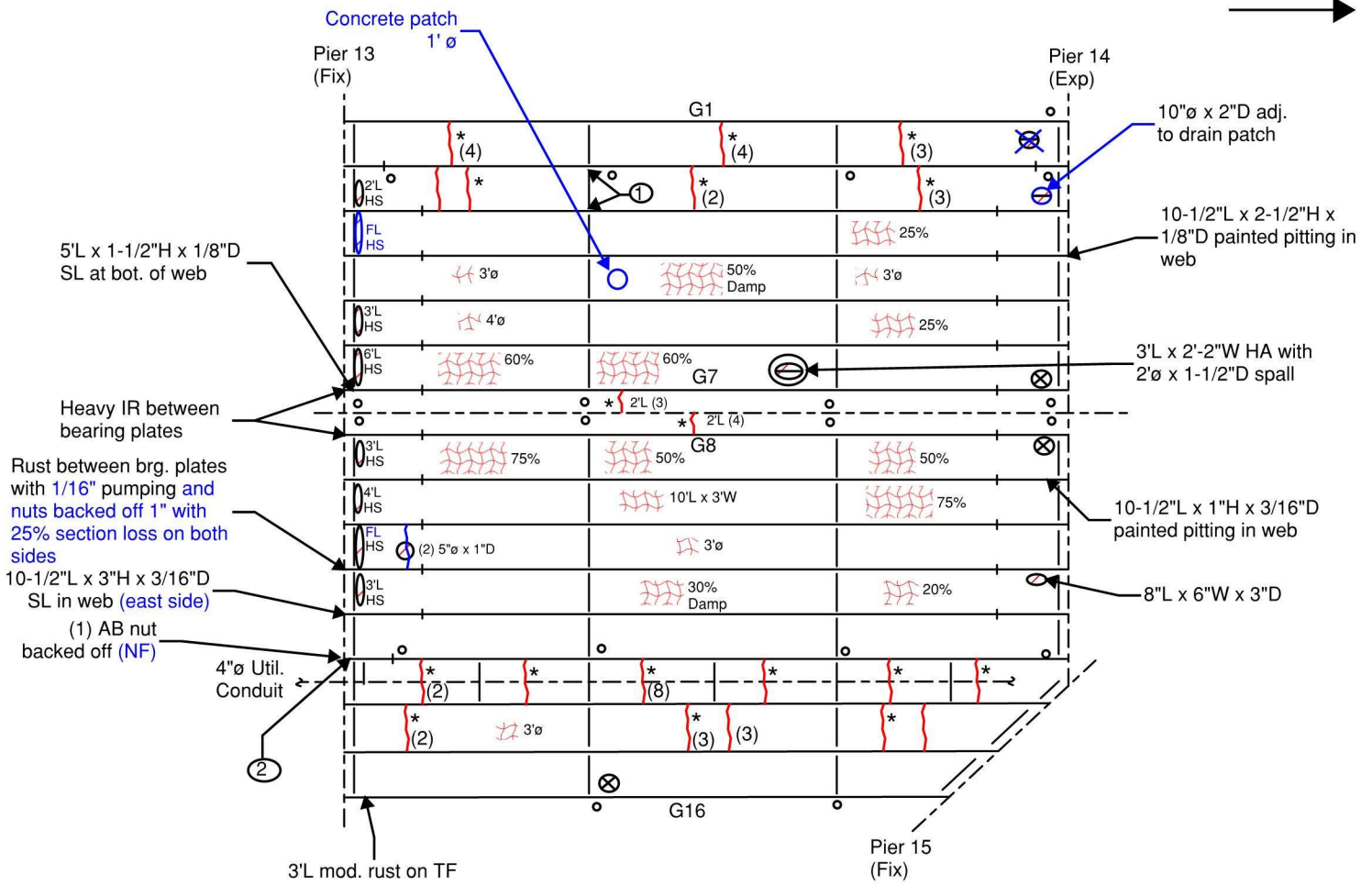
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JSM, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 14

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes.
- Longitudinal joint material hanging down at two locations

Deterioration Notes:

- ① - Cracked weld at bottom of diaph. to stiffener weld. Crack on G₆ extends 2" to south vertical weld.
- ② - Web with 4'L x 2-1/2"H x 1/4"D painted SL on west side and 7"L x 2"H x 3/16"D painted SL on east side

LEGEND:

| | |
|--|-------------------------------|
| | HOLLOW AREA |
| | SHALLOW REBAR |
| | SPALL AREA |
| | SPALL AREA WITH EXPOSED REBAR |
| | MAPCRACKS |
| | HAIRLINE CRACKS |
| | HONEYCOMB AREA |
| | SCALE AREA |
| | EFFLORESCENCE PRESENT |
| | Weep pipe |
| | Cover plate end weld |
| | Scupper pipe |
| | Haunch Spall |
| | Not found |

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JSM, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032

Span 15 Underside of Deck and Framing
Deterioration Notes

- ① - End diaphragm vertical weld has a 3-1/4" long crack that extends 1" long along the top. Note the deck is pumping at this location.
- ② - Expansion bearings at girder 11 and 10 at pier 14 and girder 11 at pier 15 have up to 3/8" gaps under the bearing (previous shim plates are loose and bearings are floating) and bearings pump up to 1/8" under live load.
- ③ - End diaphragm vibrates under live load at pier 15 with very loud banging. The diaphragm in bay 11 over pier 15 at the connection to the pier 14 end diaphragm has a 7" long crack in the web. The deck is pumping under live load at this location. The end diaphragm over pier 14 has a 9" long crack in the vertical weld at the connection to span 16 girder 13 bearing stiffener.
- ④ - 1/2" long x 2" wide ~~undermining of bearing at SE corner due to~~ pedestal spall at SW corner.
- ⑤ - Bay 3 at pier 15 ; 2' long haunch spall with rust at the TF of end diaphragm and 5' long along the girder.
- ⑥ - 5' long hollow haunch spall on east side of girder 4 near pier 15; 5'L haunch spall on west side.
- ⑦ - (3) concrete patches up to 1'-8" long x 11" wide with (5) spalls up to ~~7" long x 2" wide~~ 1.5' diameter x 1" deep with exposed rebar.
- ⑧ - (2) Hollow areas up to 2'-8" long x 3' wide with spalls with exposed rebar up to 2' long x 1' wide x 1-1/2" deep.
- ⑨ - (2) concrete patches up to full bay width x 9' long with edge spalls up to 6" diameter x 1/2" deep.
- ⑩ - End diaphragm with section loss at the top flange to knife edge remaining and perforations up to 9" long x 1" wide. Bottom flange with section loss up to 5/16" deep.

| | | | | | |
|--|----------------|----------------------------|---|-------|-------|
| REVISION  | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION  | DATE: | CREW: |
| REVISION  | DATE: | CREW: | REVISION  | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

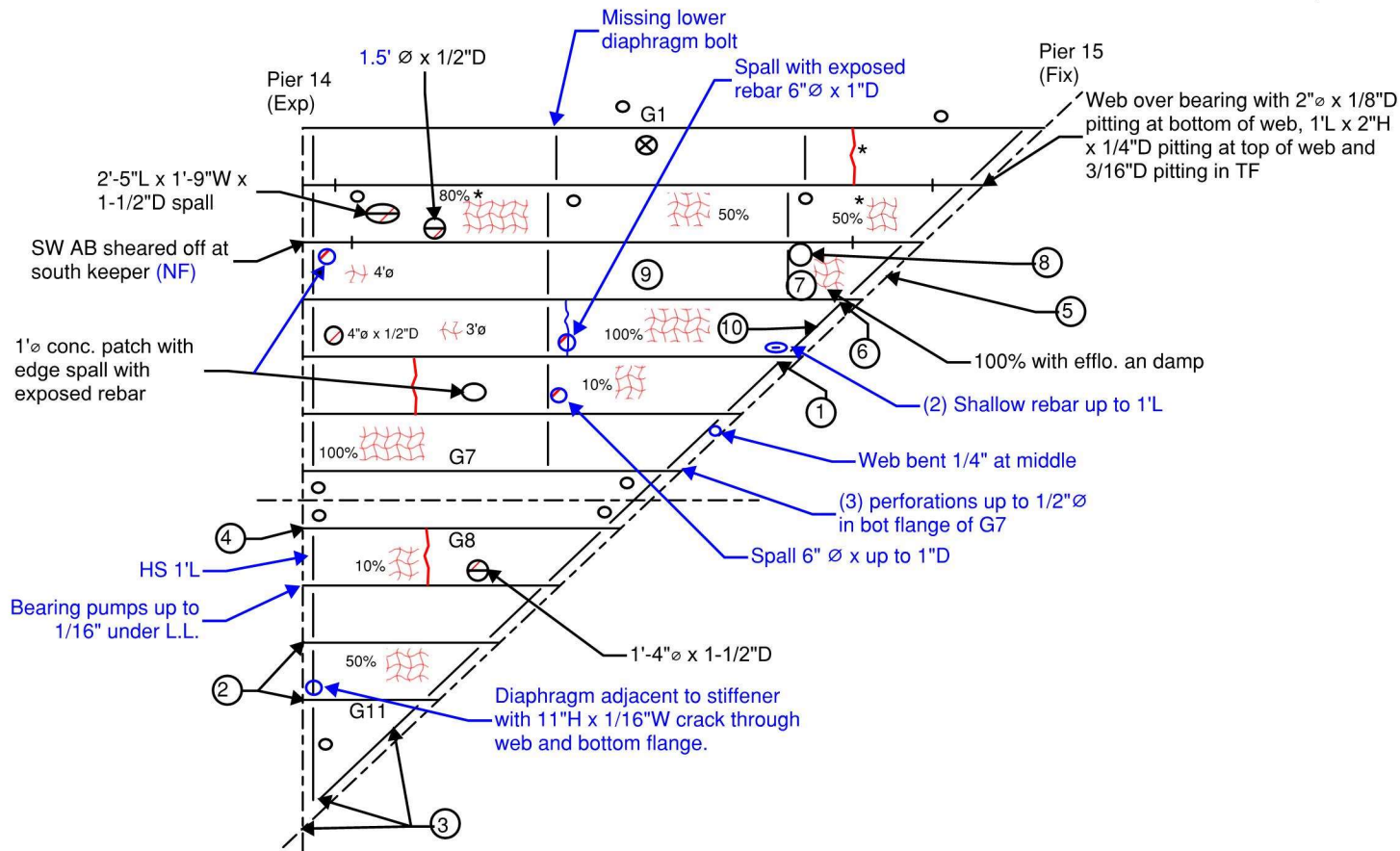
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JSM, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Underside of Deck and Framing - Span 15

General Notes:

- See "Underside of Deck and Framing - Span 1" general notes and "Underside of Span 15 Deterioration Notes".
- All weeps in bay 7 drain have missing extensions and may drain on superstructure.
- Bearings at pier 15 have heavy laminated rust and IR up to 1/2". and AB nuts backed off up to 1/2" high.
- Deck end along the end diaph. is pumping 1/8" under live load in bays 4, 5, 10 and 11 at pier 15 and both sides of girder 5 and 11. Up to 6' long of end haunches in bays 10 and 11 are cracked; 4' long haunch spall with 1/4" gap between diaph TF and deck at north side of girder 11; and a 1"Ø rust hole at the top of the bearing stiffener on east side of girder 11. BF of end diaph in bay 11 at pier 15 is bent 8" L x 1/4" up.

LEGEND:

| | |
|--|-------------------------------|
| | HOLLOW AREA |
| | SHALLOW REBAR |
| | SPALL AREA |
| | SPALL AREA WITH EXPOSED REBAR |
| | MAPCRACKS |
| | HAIRLINE CRACKS |
| | HONEYCOMB AREA |
| | SCALE AREA |
| | EFFLORESCENCE PRESENT |
| | Weep pipe |
| | Cover plate end weld |
| | Scupper pipe |
| | Haunch Spall |
| | Not found |

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW : JSM, AMP

DATE: 7/18/2017


BRIDGE NO.: 00032

General Notes: (Spans 7 and 16)

- Spalls up to 1' x 5" x 2-1/2" deep in deck at floor beam ends on North side of G2
- All spalls in the underside of deck are coated in epoxy unless otherwise noted.
- Up to 20% section loss to rivet heads on bottom flange of G2
- Laminated rust at floor beam vertical connection to G2, North side web
- Active leakage from deck joints along piers at random locations and along joint over floor beam 19
- Random concrete patches in underside of deck, some with left in place forms, areas of dampness, and areas of light to moderate scaling
- G2, several stiffeners have rust through holes at safety walk and have impact damage at inside face.
- G2, typically up to 4" high laminated rust at safety walk at roadway side
- Bearings at pier 15 with laminated rust between plates up to 1/8" thick.
- Random keeper plates over pier 16 have moderate to heavy laminated rust with up to 1/16" section loss at random locations
- Both ends of G2 to G12 in span 16 painted ±8'L from end
- Less than 50% light rust on framing

Span 7 was not inspected this inspection. It will be inspected during a special inspection.

Framing Plans

| | | | | | |
|--|----------------|----------------------------|---|-------|-------|
| REVISION  | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION  | DATE: | CREW: |
| REVISION  | DATE: | CREW: | REVISION  | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

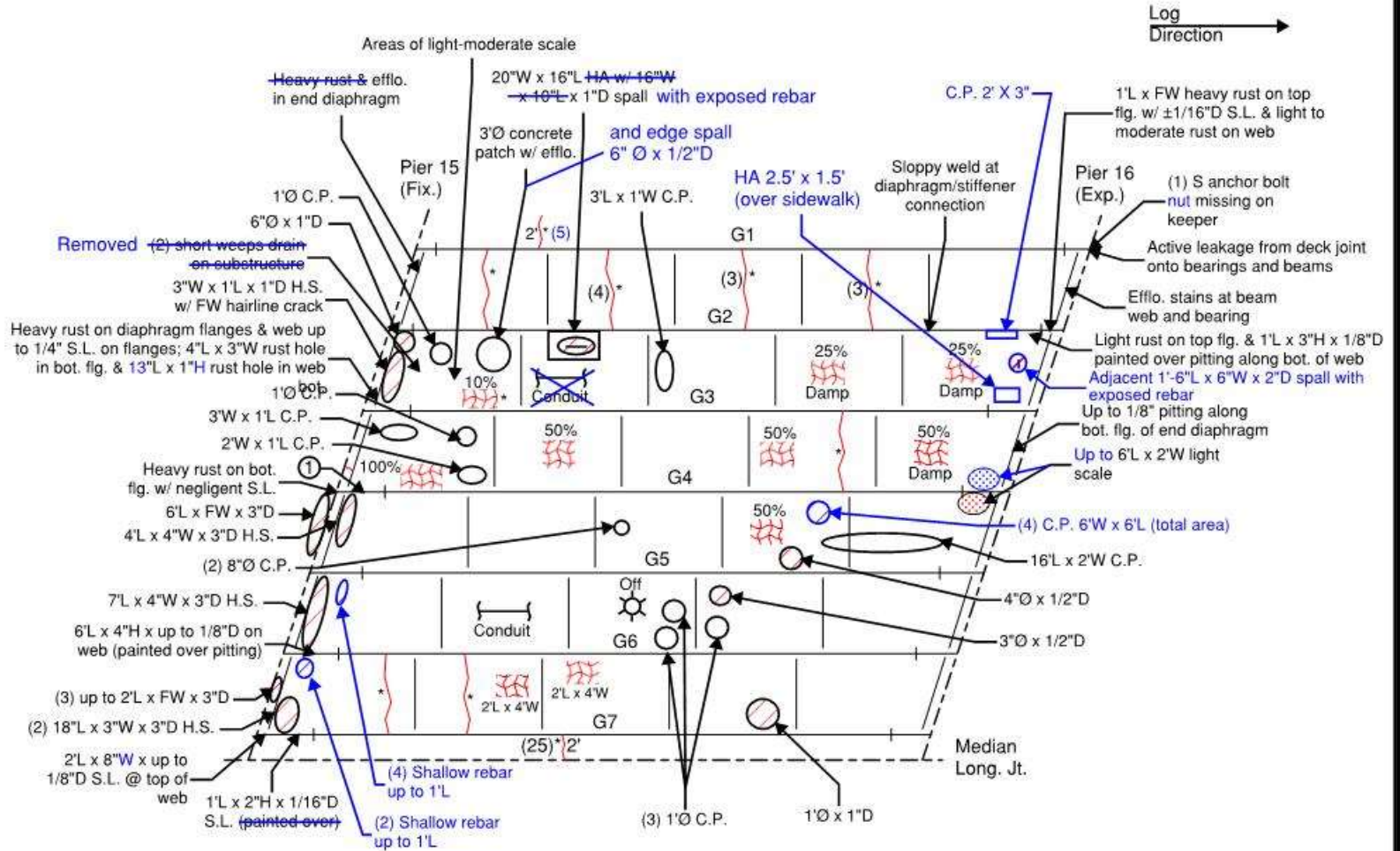
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: SP, VLS

DATE: 9/24/2017

BRIDGE NO.: 00032



Deterioration Notes:

① - G4, west side web with 3'L x 4"H x up to 1/8"D painted over pitting

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- UNDERBRIDGE LUMINAIRE
- CP CONCRETE PATCH

Framing Plan (Span 16 West Half)

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

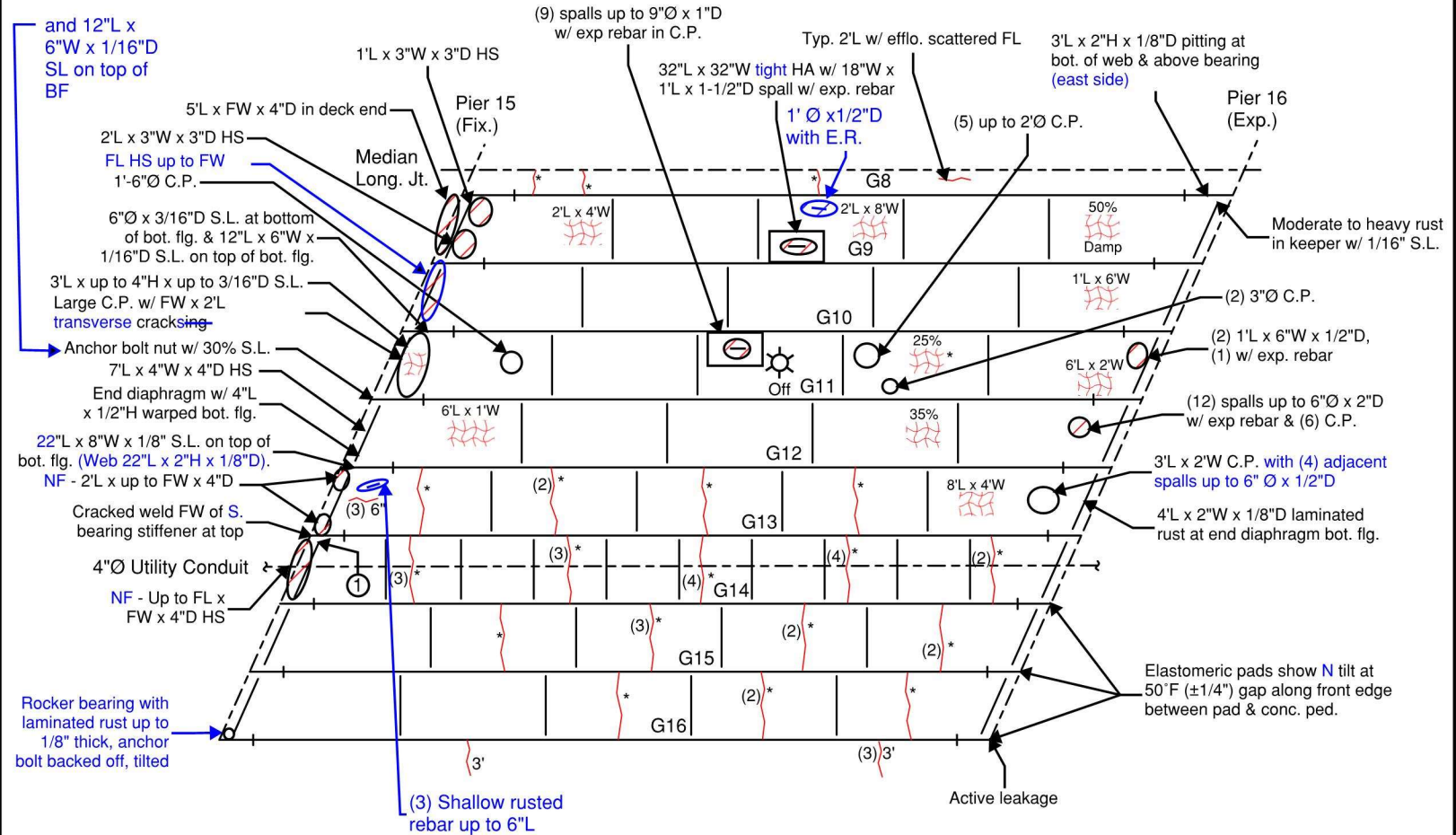
Inventory Route: NHS

CREW: SP, VLS

DATE: 9/24/2017

BRIDGE NO.: 00032

Log Direction →



- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - UNDERBRIDGE LUMINAIRE
 - CP CONCRETE PATCH
 - HS HAUNCH SPALL
 - NF NOT FOUND

Deterioration Notes:

① - 8"L x 4"H x 1/4"D pitting over bearing in web & 2'L x 1-1/2"H x 1/8"D painted over S.L. & 11"L x 5"H x up to 5/16"D S.L. at west side

Framing Plan (Span 16 East Half)

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

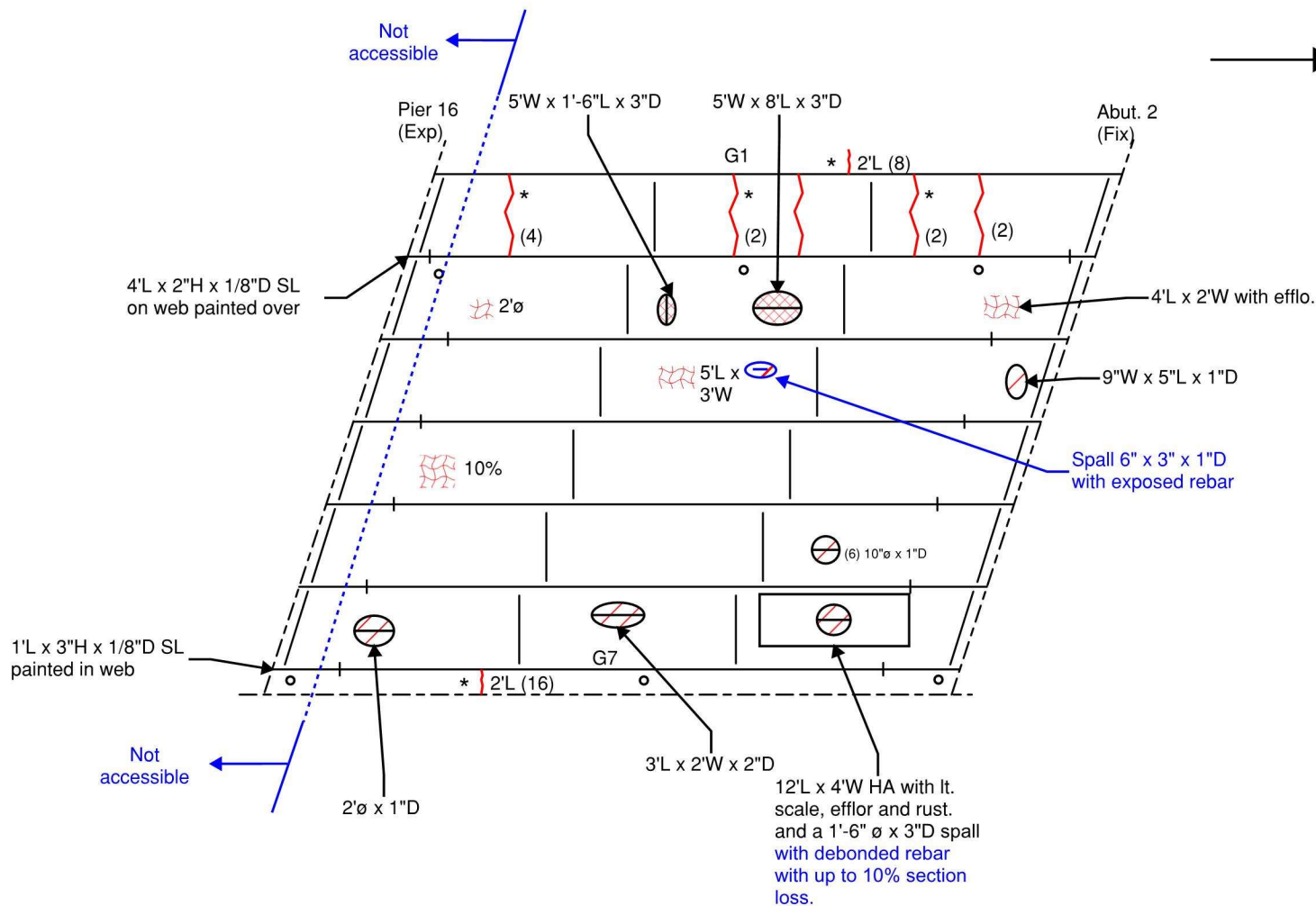
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Underside of Deck and Framing
Span 17, West Half**

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - Weep pipe
 - Cover plate end weld
 - Scupper pipe
 - Haunch Spall

- General Notes:**
- See "Underside of Deck and Framing - Span 1" general notes.
 - Abutment bearings with peeling paint and light rust and isolated IR up to 1/2".
 - Minor bulging at elastomeric pads.

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

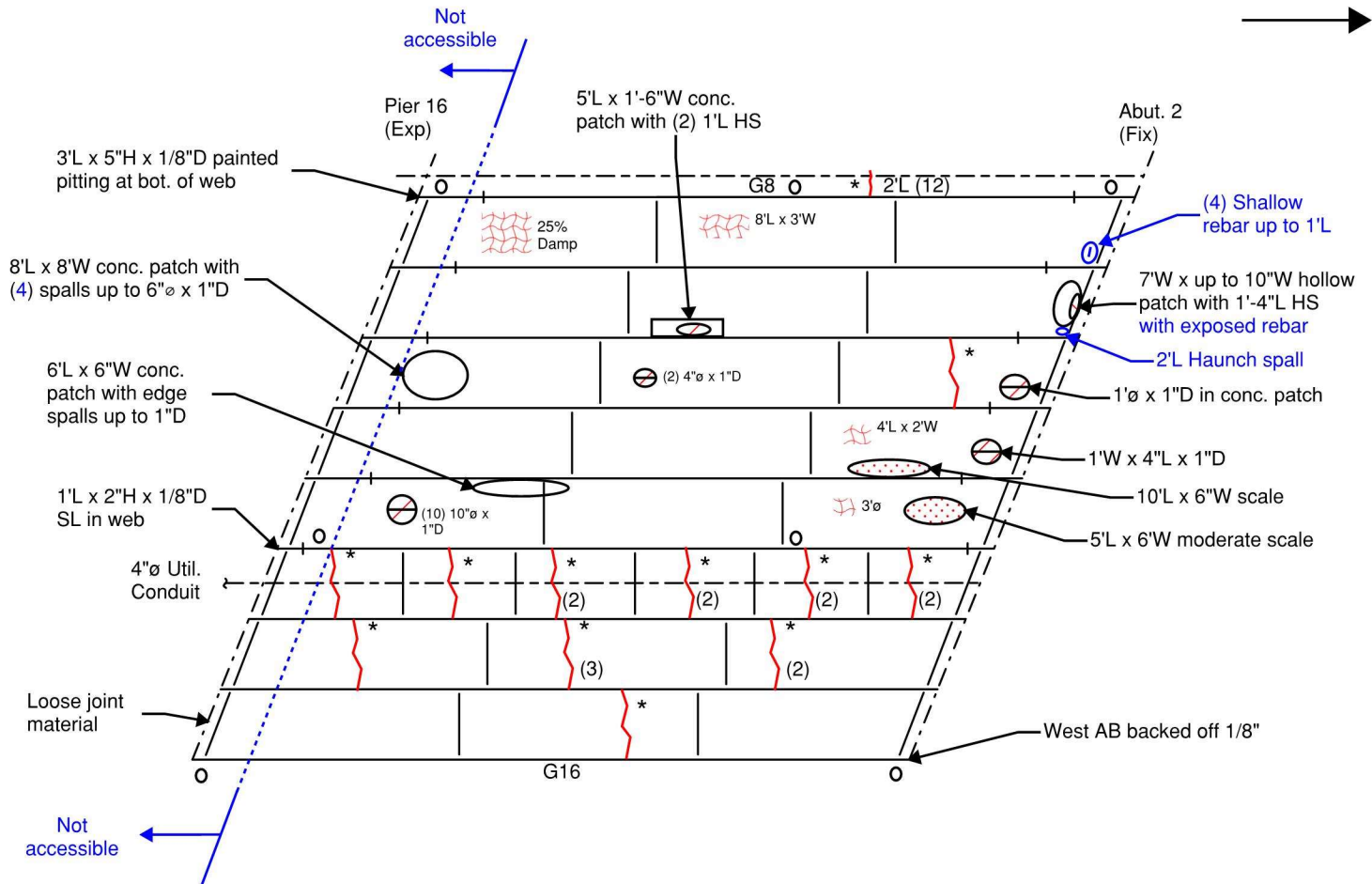
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Underside of Deck and Framing
Span 17, East Half**

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCE PRESENT
 - Weep pipe
 - Cover plate end weld
 - Scupper pipe
 - Haunch Spall

General Notes:

- See "Underside of Deck and Framing - Span 1" and "Underside of Deck and Framing Span 17 (West Half)" general notes.

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

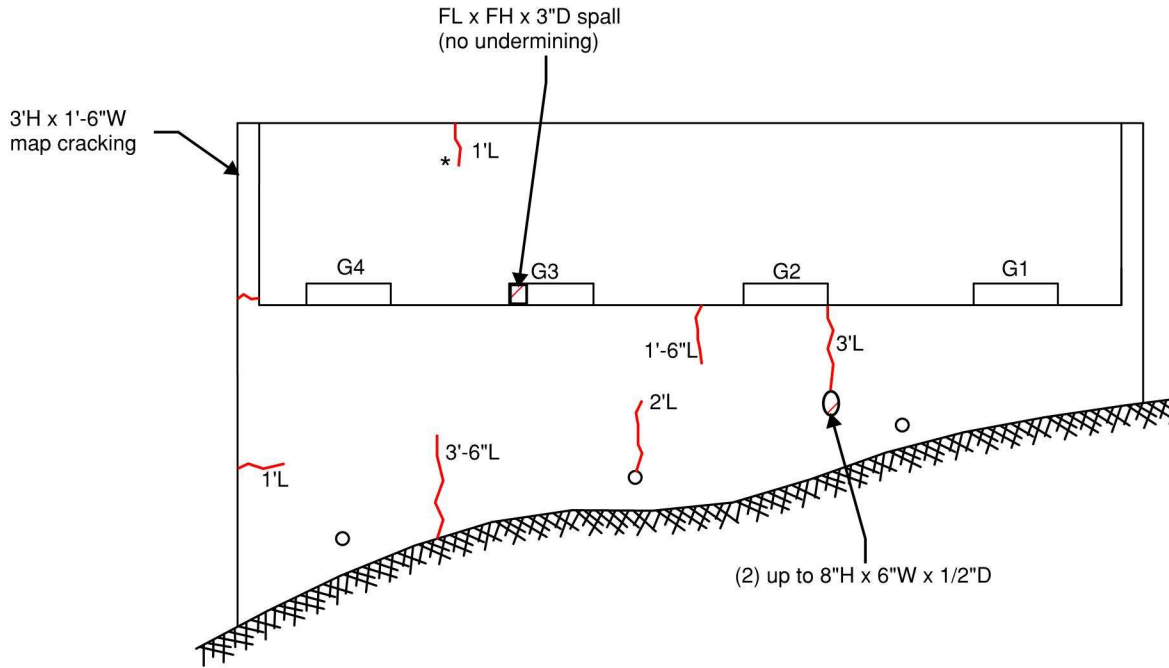
Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032

NOT INSPECTED DUE TO HOMELESS ACTIVITY



Abutment 1A

General Notes:

- Moderate to heavy graffiti on abutment stem.
- Evidence of past deck joint leakage on east end of abutment stem.
- Heavy man-made debris on abutment seat.

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

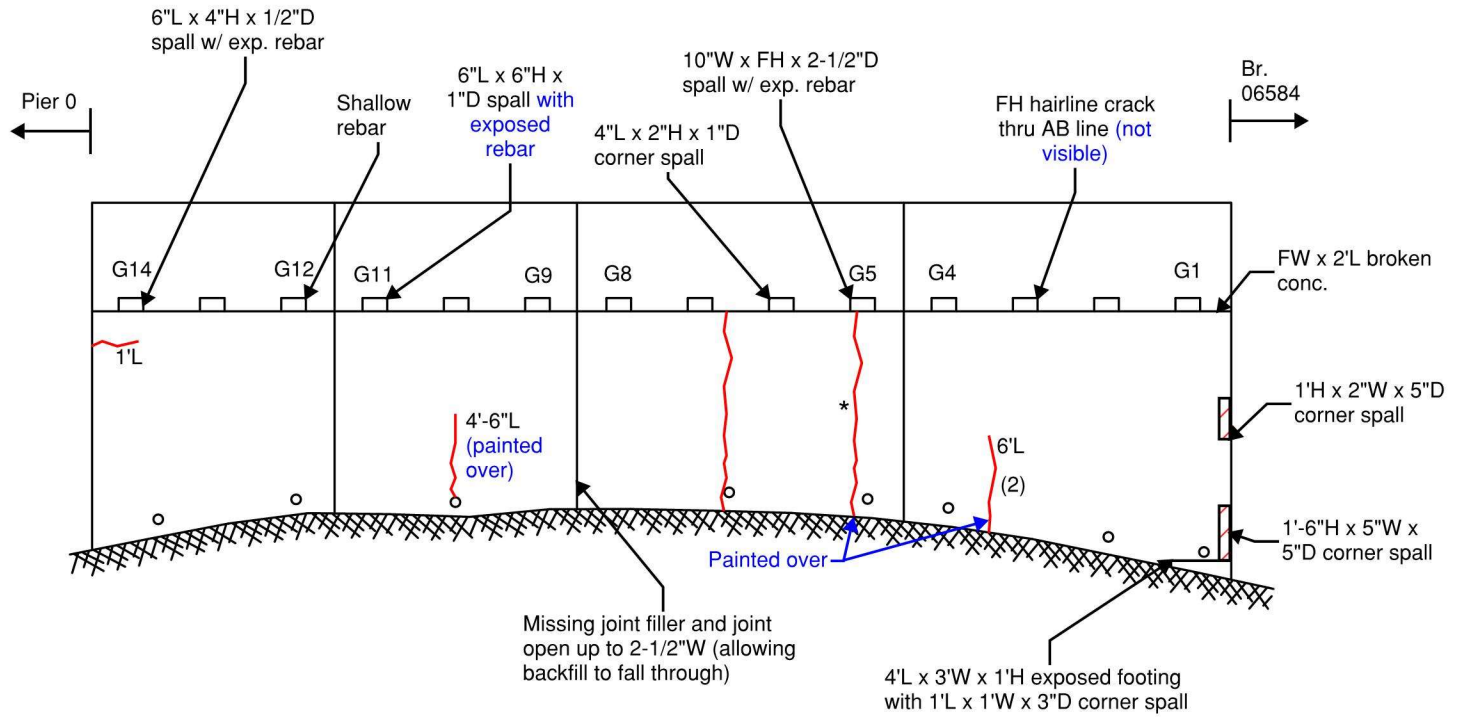
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Abutment 1

General Notes:

- Heavy graffiti on abutment stem **was painted over**.
- Evidence of past deck joint leakage on abutment stem and backwall.
- Slope embankment is covered with crushed stone.
- Light debris on abutment seat.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

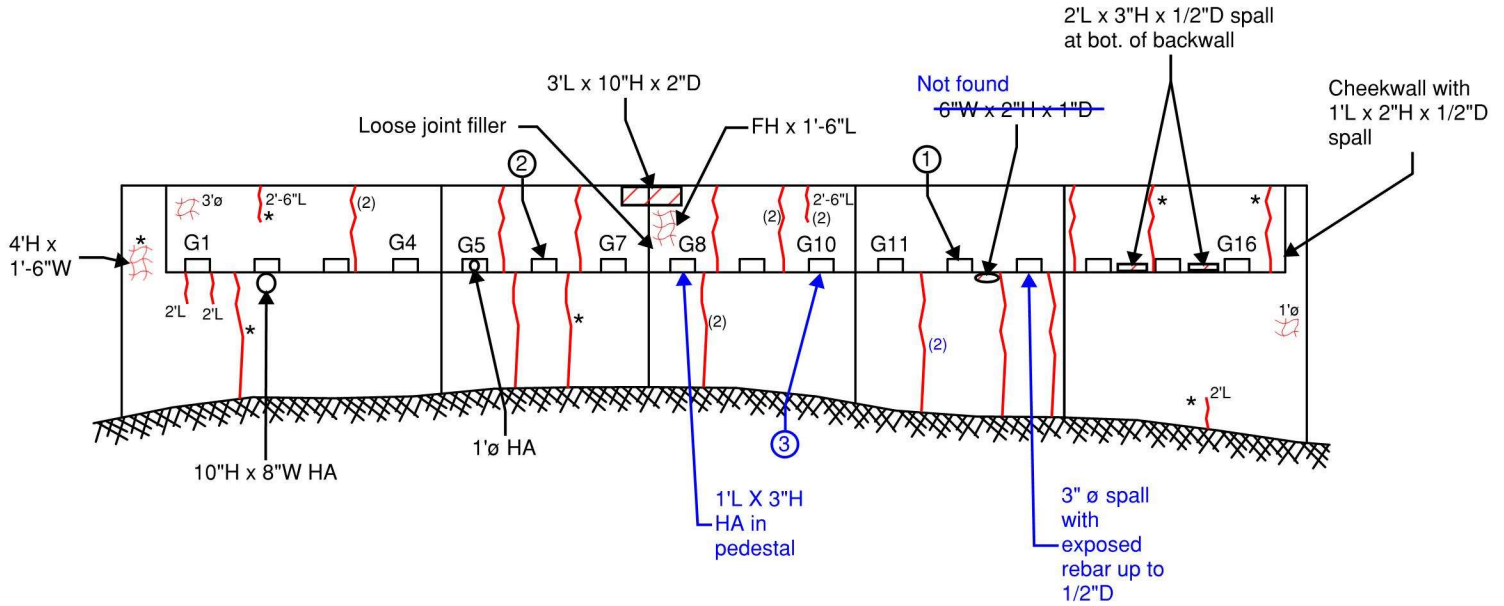
CREW: JM, TE (TSC)

DATE: 12/19/2016

BRIDGE NO.: 00032

Deterioration Notes:

- ① - Pedestal with 10"L x 6"H corner spall on front face and east face up to 6"D.
- ② - 7"L x 7"H x 1"D spall on pedestal front face and west face with 1.5'L x 3"H 3"D spall.
- ③ - Pedestal corner spall with exposed rebar 15"L x 5"H x 2"D on front and east face.



Abutment 2

General Notes:

- Accumulation of sand and debris on the abutment seat.
- Evidence of past deck joint leakage at random locations. Active leakage on backwall in bays 2, 3, 5-7, 10 and 12.
- Slope embankment is covered with crushed stone.
- Homeless encampment and homeless debris on abutment seat in bays 2-5.
- Concrete pedestals have horizontal hairline cracks and vertical cracks up to 1/8" wide that extend across the top to the bearing.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

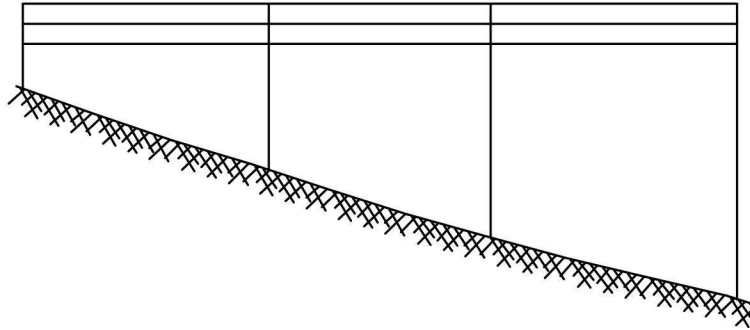
Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

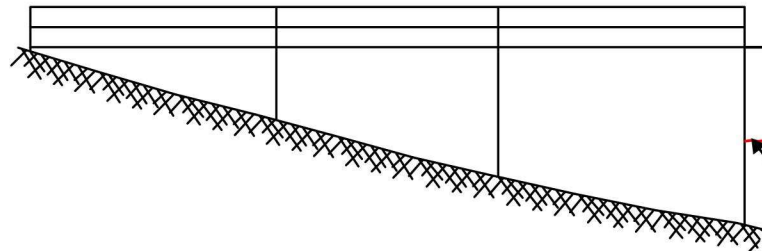
DATE: 12/07/2016

BRIDGE NO.: 00032

NOT INSPECTED DUE TO HOMELESS ACTIVITY



Wingwall 1A



(3) FL crks with efflo.





Wingwall 1B

LEGEND:

-  HOLLOW AREA
-  SHALLOW REBAR
-  SPALL AREA
-  SPALL AREA WITH EXPOSED REBAR
-  MAPCRACKS
-  HAIRLINE CRACKS
-  HONEYCOMB AREA
-  SCALE AREA
-  EFFLORESCENCE PRESENT

General Notes:

- Wingwalls have hairline cracks, minor chipping and heavy graffiti.
- Light vegetation growth along wingwalls

| | | | | | |
|--|-----------------------|-----------------------------------|---|-------|-------|
| REVISION  | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION  | DATE: | CREW: |
| REVISION  | DATE: | CREW: | REVISION  | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

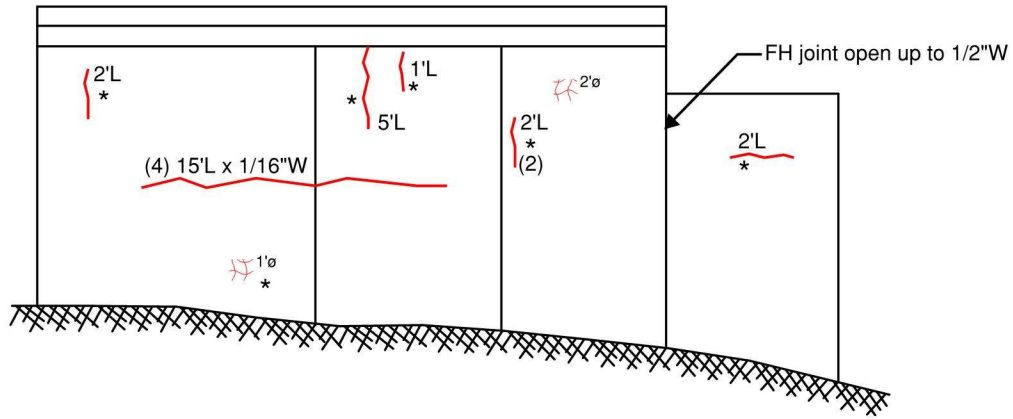
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

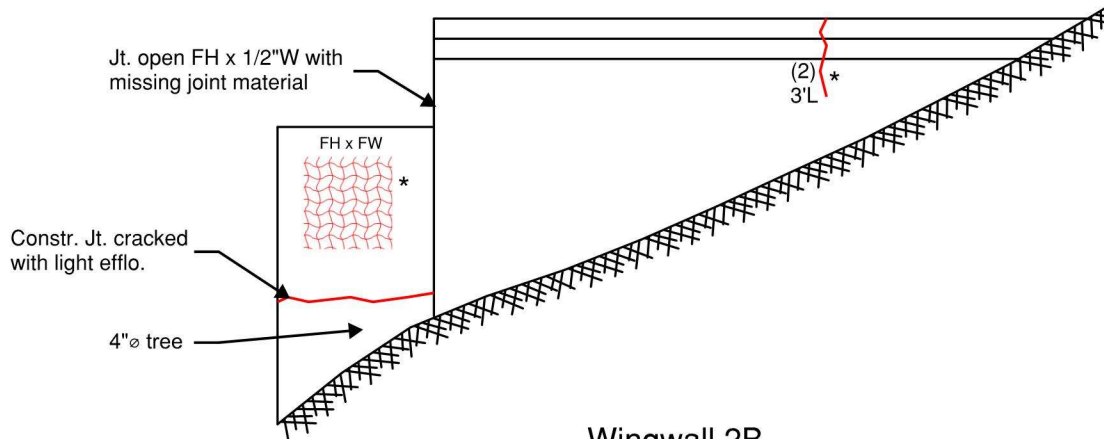
CREW: JM, TE (TSC)

DATE: 12/19/2016

BRIDGE NO.: 00032



Wingwall 2A



Wingwall 2B

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT

General Notes:
- See Wingwall 1A and 1B sheet general notes.

NO CHANGE

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

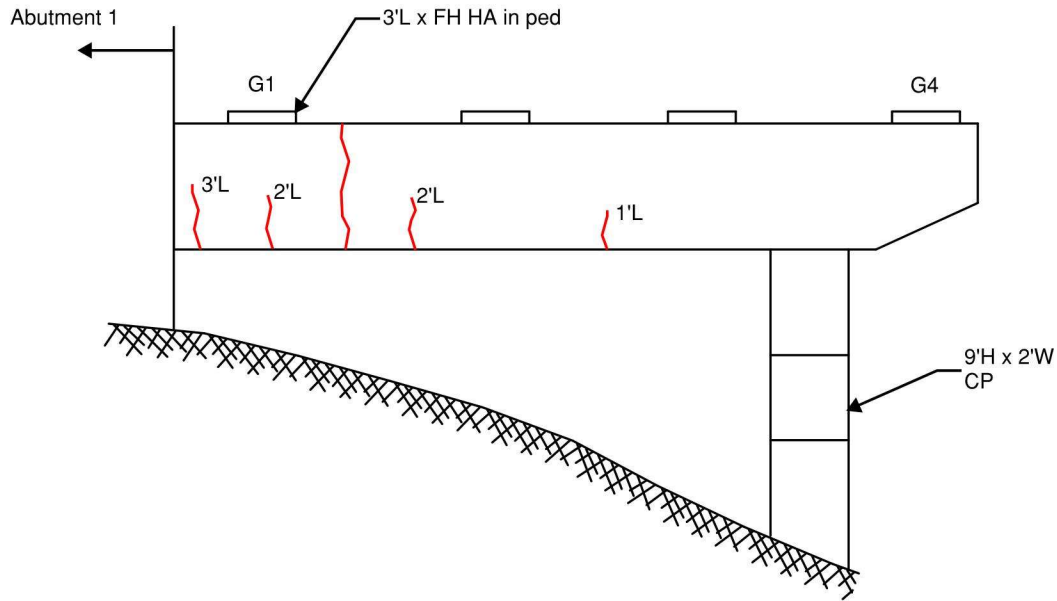
Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032

NOT INSPECTED DUE TO HOMELESS ACTIVITY



Pier 0 - South Elevation

General Notes:

- Pier caps and columns have concrete and shotcrete patches throughout (currently under repair).
- Moderate debris on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

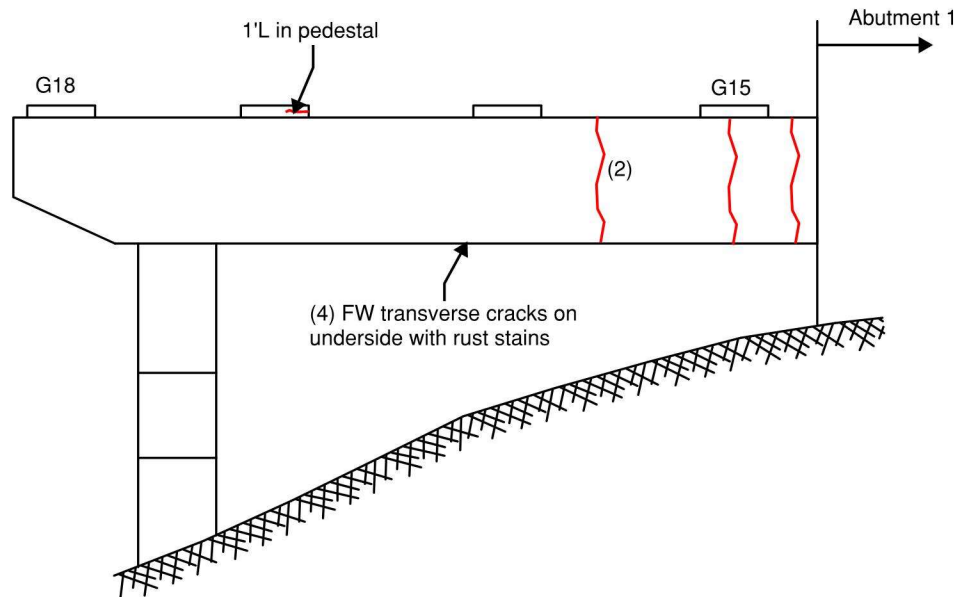
Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032

NOT INSPECTED DUE TO HOMELESS ACTIVITY



Pier 0 - North Elevation

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There are 15LF of concrete patches on the pier cap.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

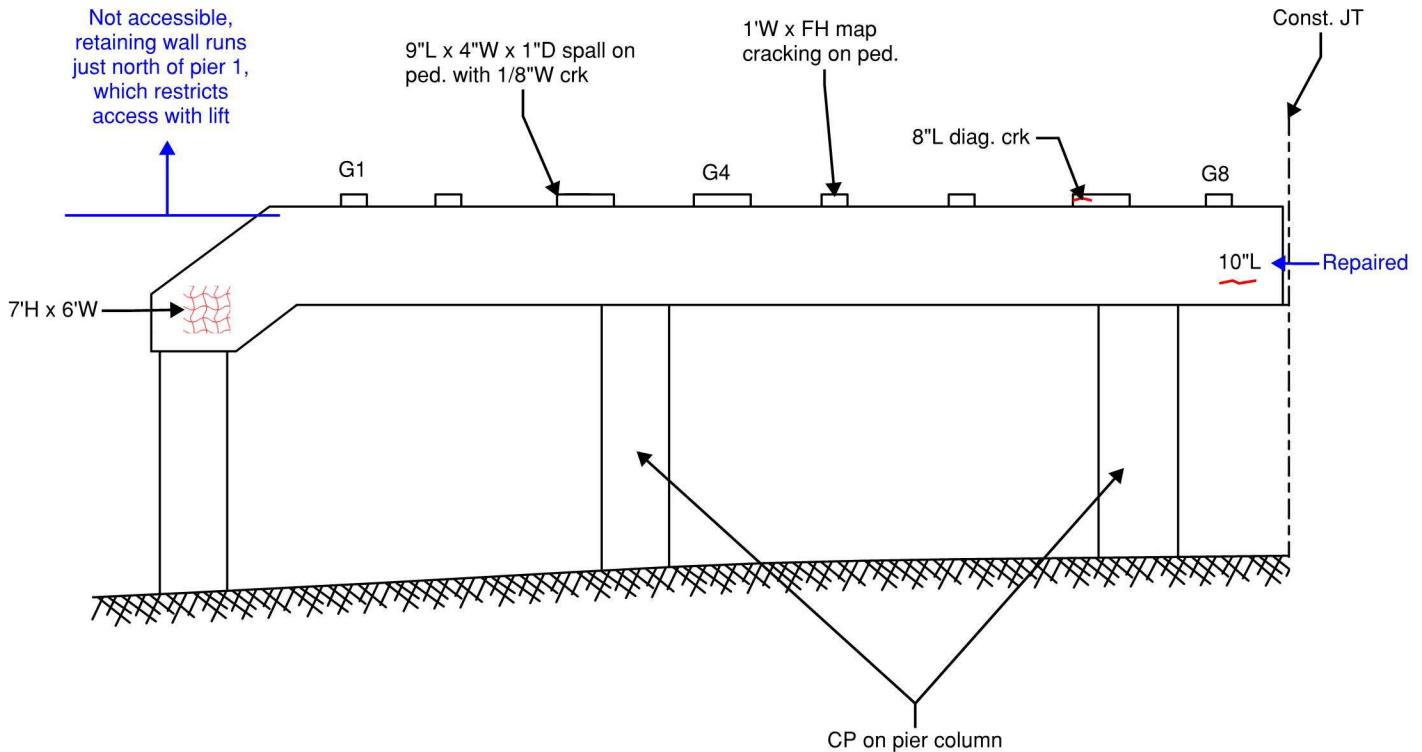
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 1 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.

- There are 30LF of concrete patches on the pier cap.

- Scaffolding set up along pier 1 south elevation FL (repair work being done). NF

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- NF Not found

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

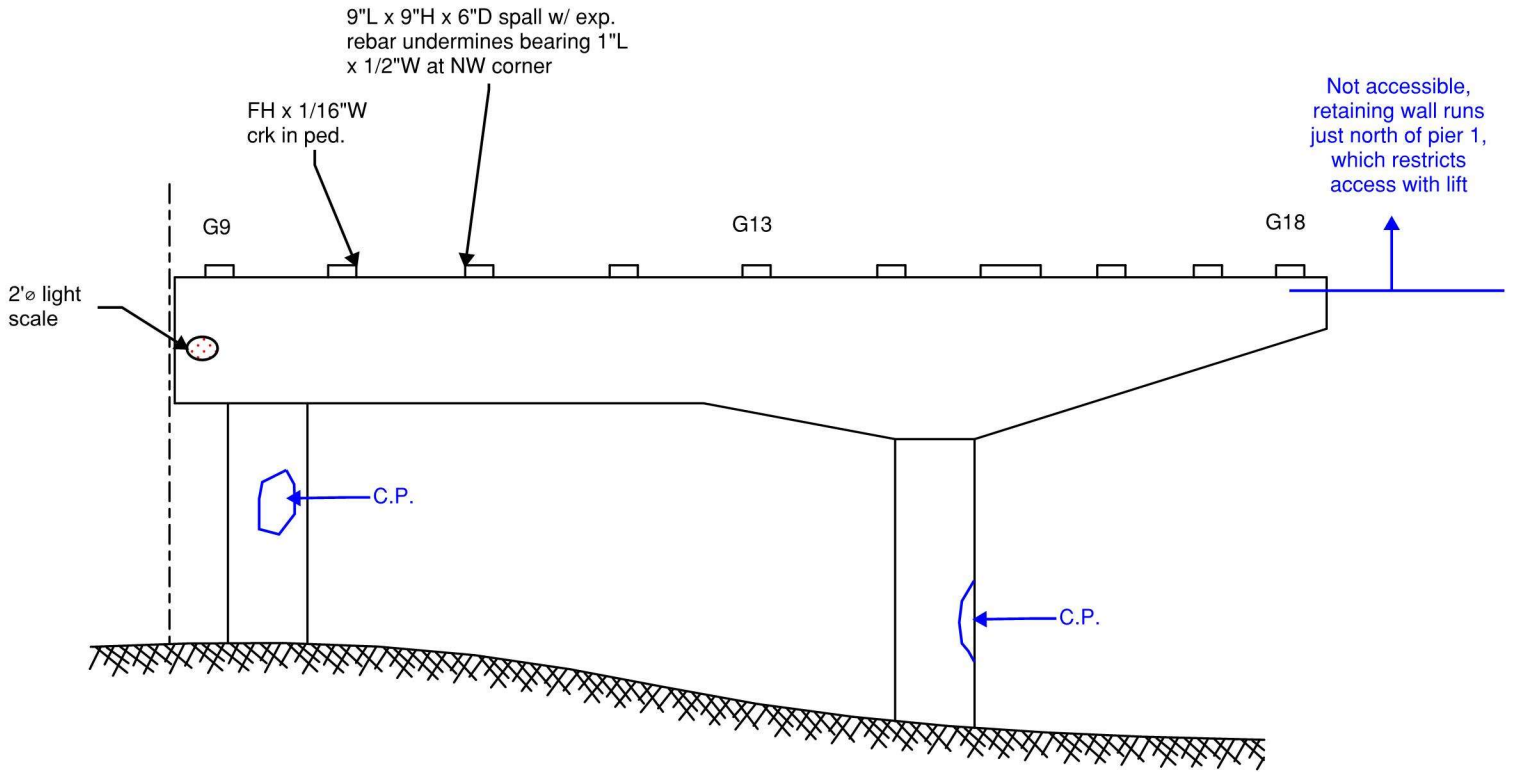
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 1 - South Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There are concrete patches on 75% of the cap.
- ~~Scaffolding set up along pier 1 south elevation FL (repair work being done). N.F.~~

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- NF Not Found

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

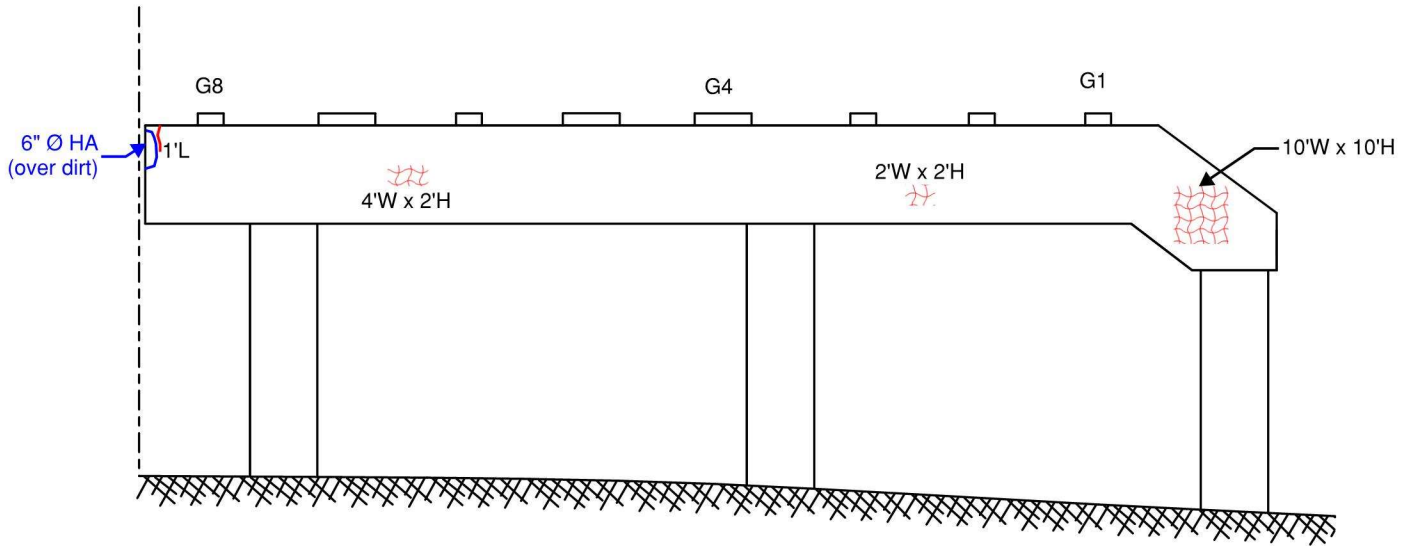
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Pier 1 - North Elevation
(West Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There are concrete patches on 20LF of the cap.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

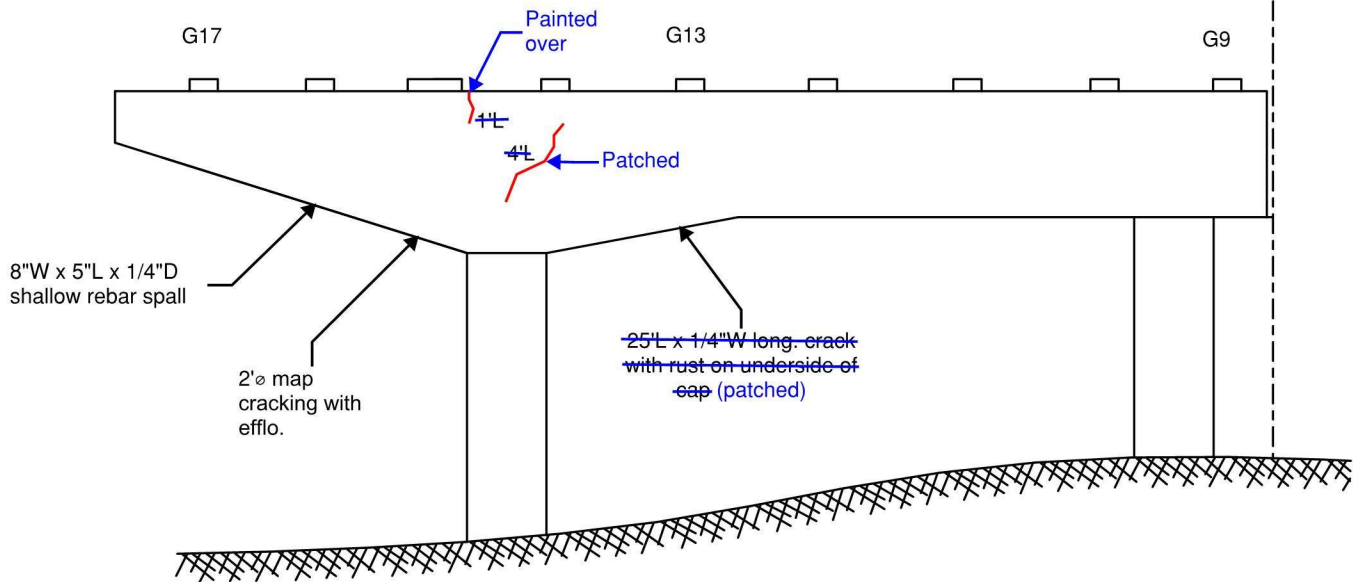
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 1 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There are concrete patches on 20LF of the cap.
- Both columns have been patched.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

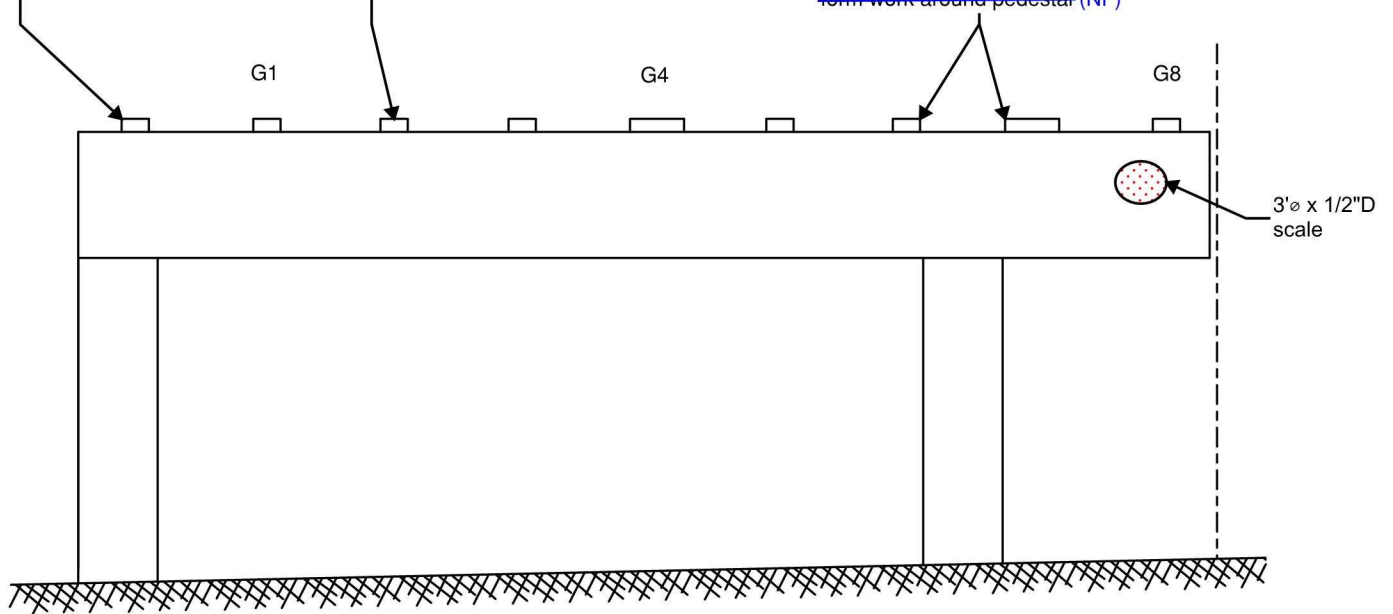
DATE: 12/08/2016

BRIDGE NO.: 00032

Girder 1 pedestal
for other elevation

Spalls on both sides of
ped. up to 1'L x 6"H x 1/2"D

~~FL x FH x FW left in place wood
form work around pedestal (NF)~~



Pier 2 - South Elevation
(West Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There are concrete patches on 10LF of the cap.
- Up to 5" deep dirt accumulation on top of the cap in bay 1.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- NF Not Found

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

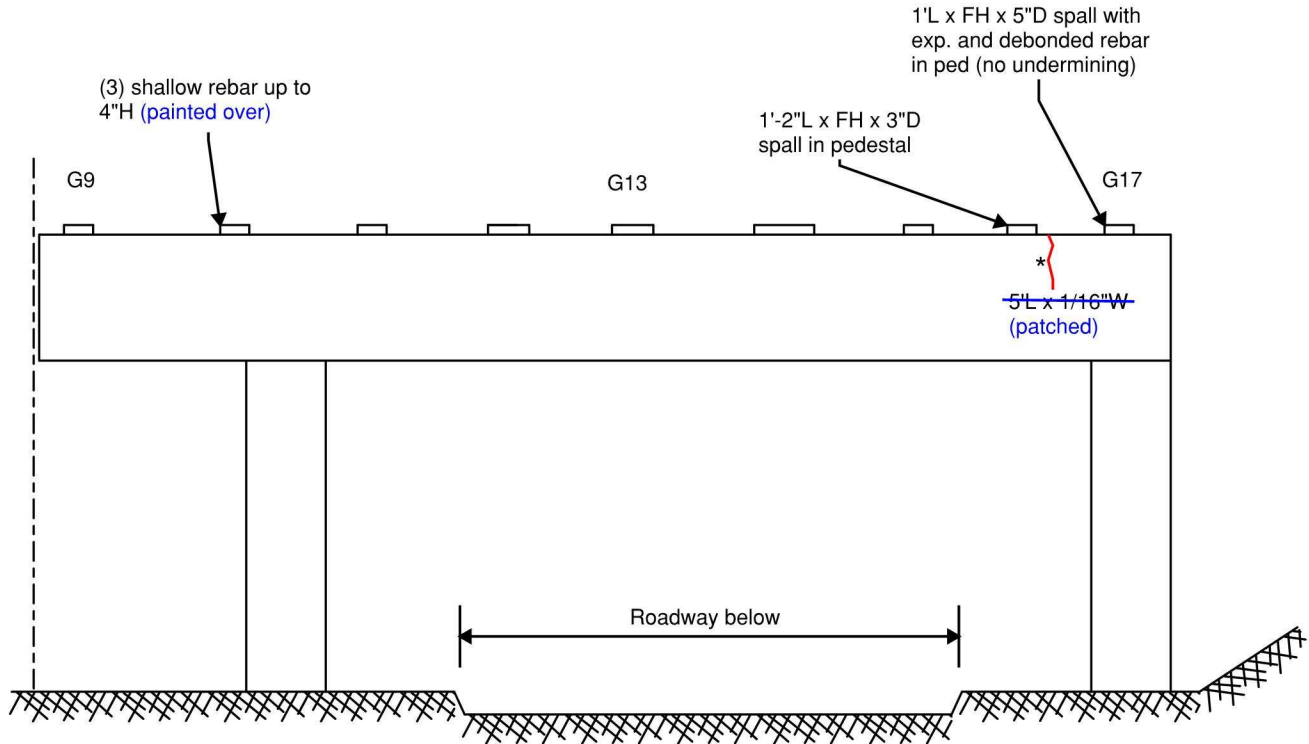
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 2 - South Elevation
(East Half)**

General Notes:
 - See "Pier 0 - South Elevation" general notes.
 - There are concrete patches on 25LF of the cap.

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

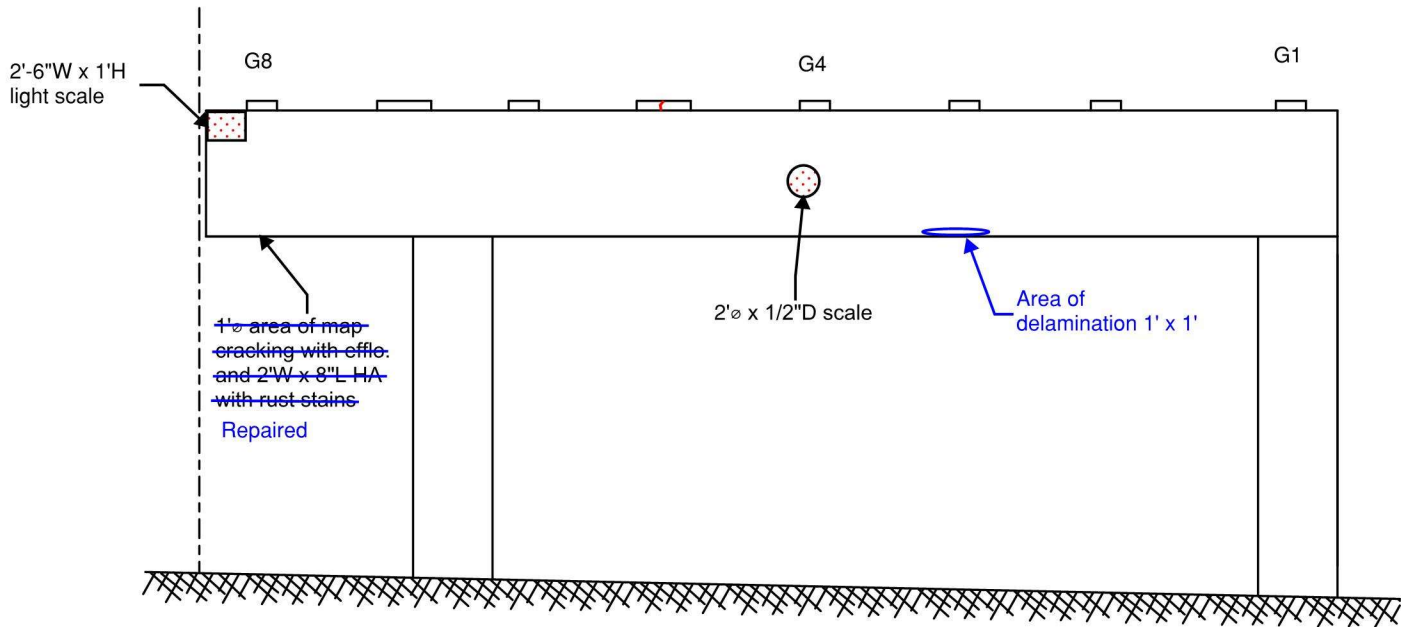
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 2 - North Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There are concrete patches on 8LF of the cap.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

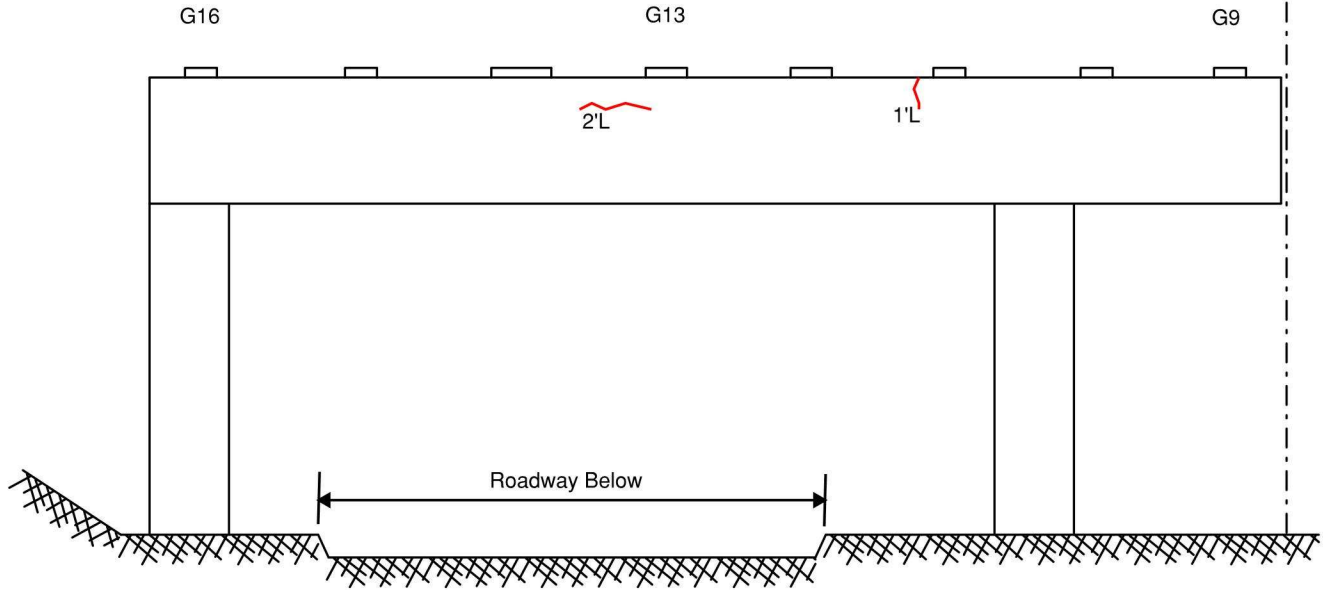
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 2 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There are concrete patches on 30LF of the cap.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

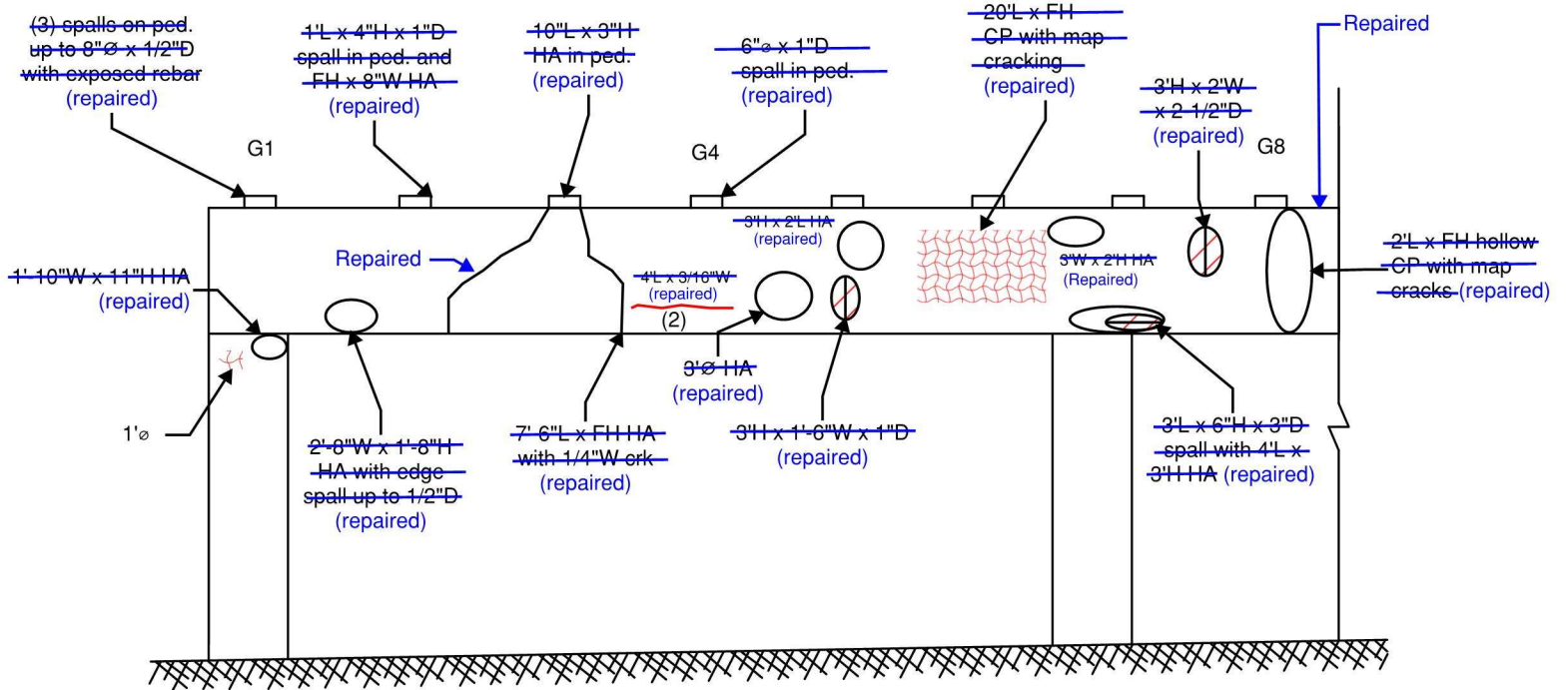
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



Pier 3 - South Elevation
(West Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is heavy debris on the pier cap.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Inspection Date: 10/15/2018

Crossed: MNRR & LOCAL ROADS

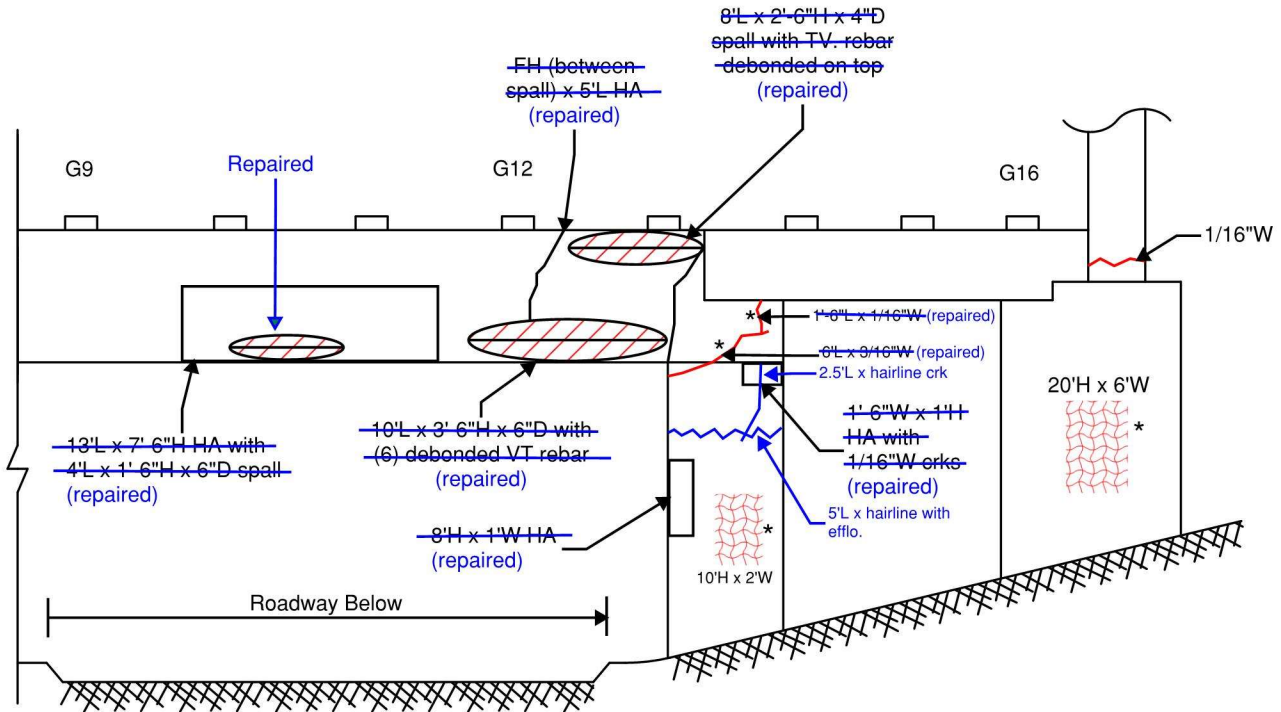
Inspected by: A. DiCesare Associates

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is light debris on the pier cap.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

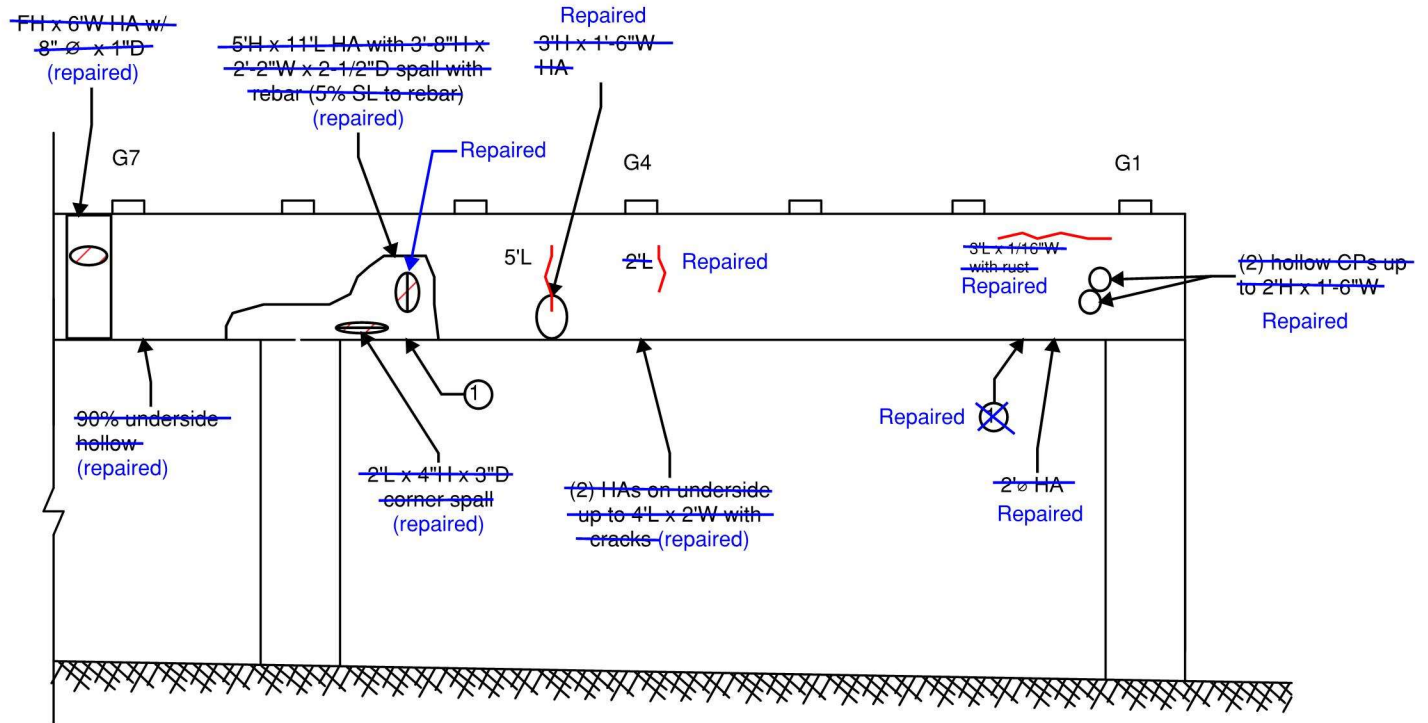
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 3 - North Elevation
(West Half)**

General Notes:
 - See "Pier 0 - South Elevation" general notes.
 - There is heavy debris on the pier cap.

Deterioration Notes:

① - 3'-6" long x 1/16" wide longitudinal crack on underside of cap (repaired)

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - CP Concrete patch
 - HA Hollow area

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

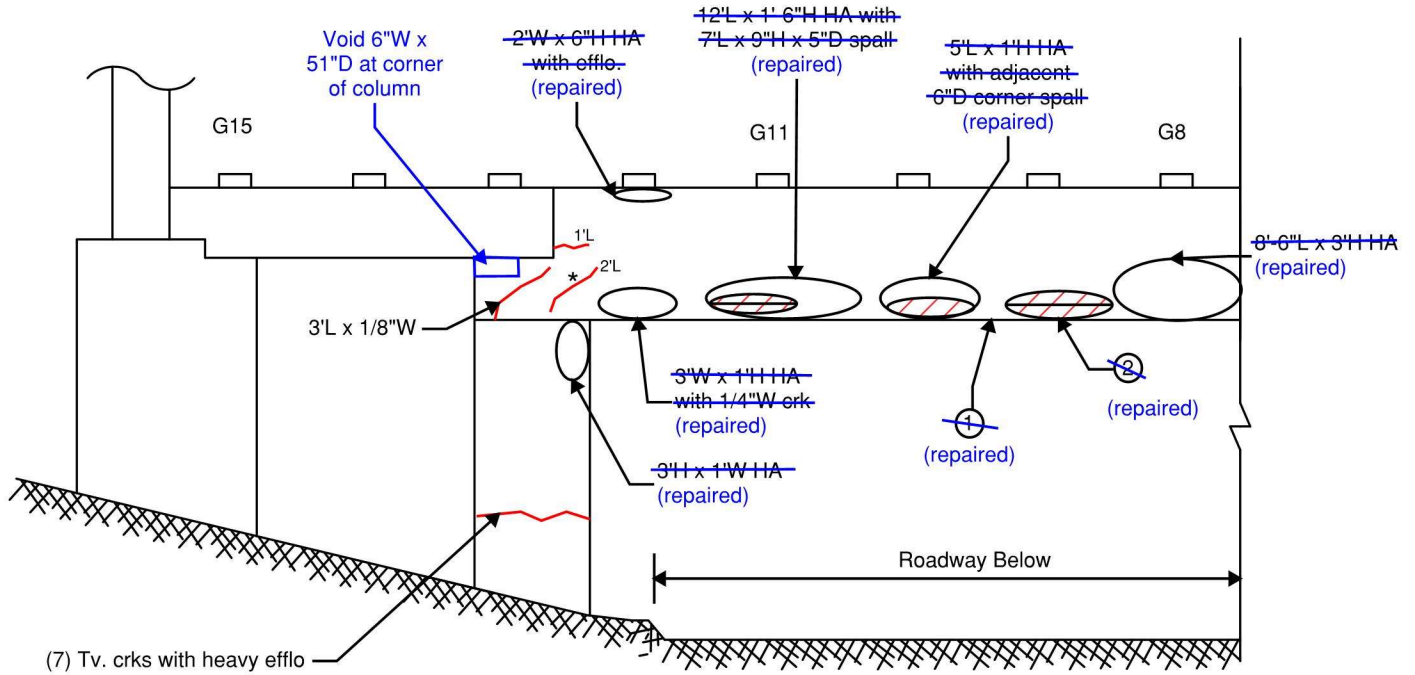
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: MEB, JJF, TE (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 3 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is heavy debris on the pier cap.

Deterioration Notes:

- ⊕ - Underside of cap with HAs up to FW x 11\"L for 50% of underside. There are also (7) spalls up to 3\"-6\"W x 3\"-x 3\"-1/2\"D with exposed rebar. (repaired)
- ⊙ - 8\"L x 4\"H x 6\"D spall with exposed rebar and adjacent map cracking and 1\" HA ⊕ (repaired)

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- * EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

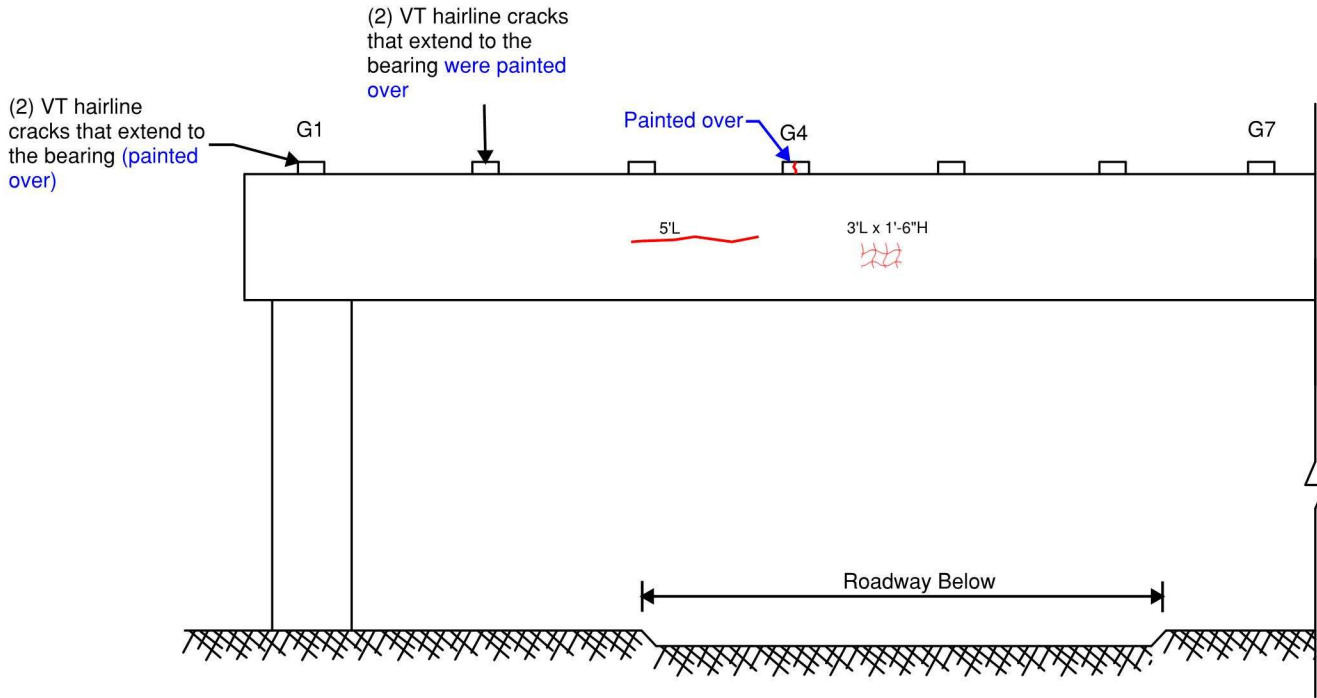
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 4 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 18LF of concrete patches on the cap

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

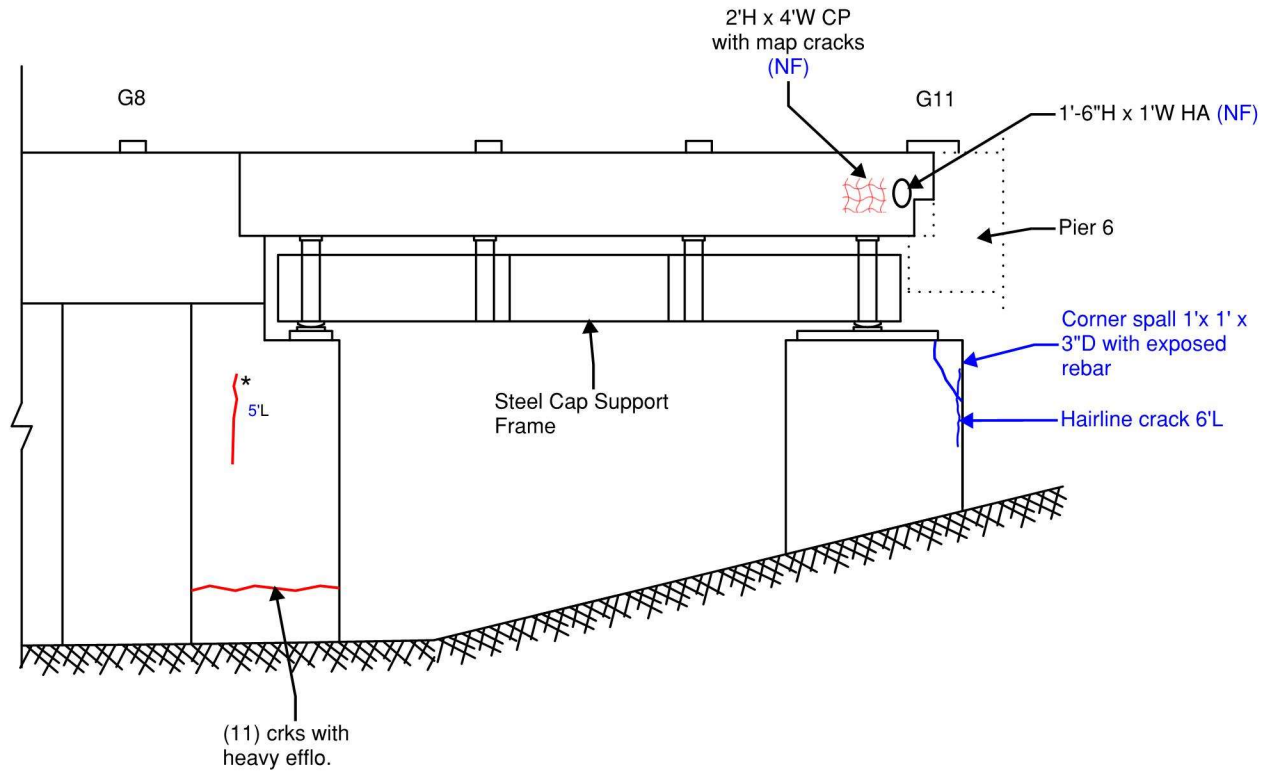
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



Pier 4 - South Elevation
(East Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 8 LF of concrete patches on the cap

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- NF Not found

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

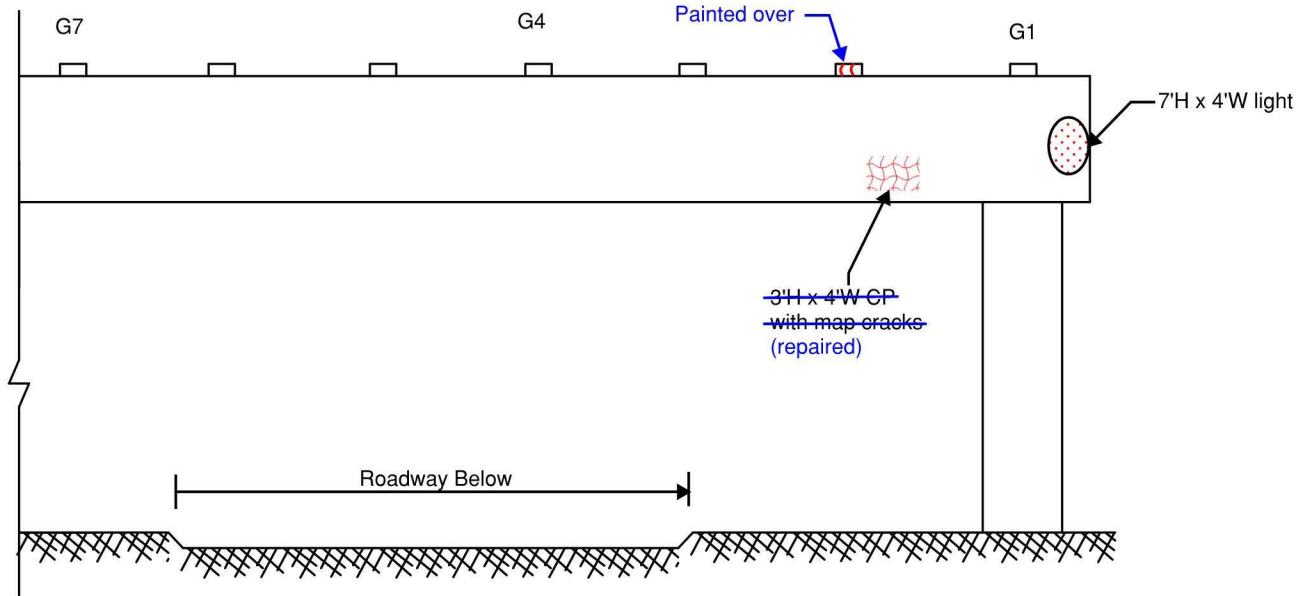
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 4 - North Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 18 LF of concrete patches on the cap

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

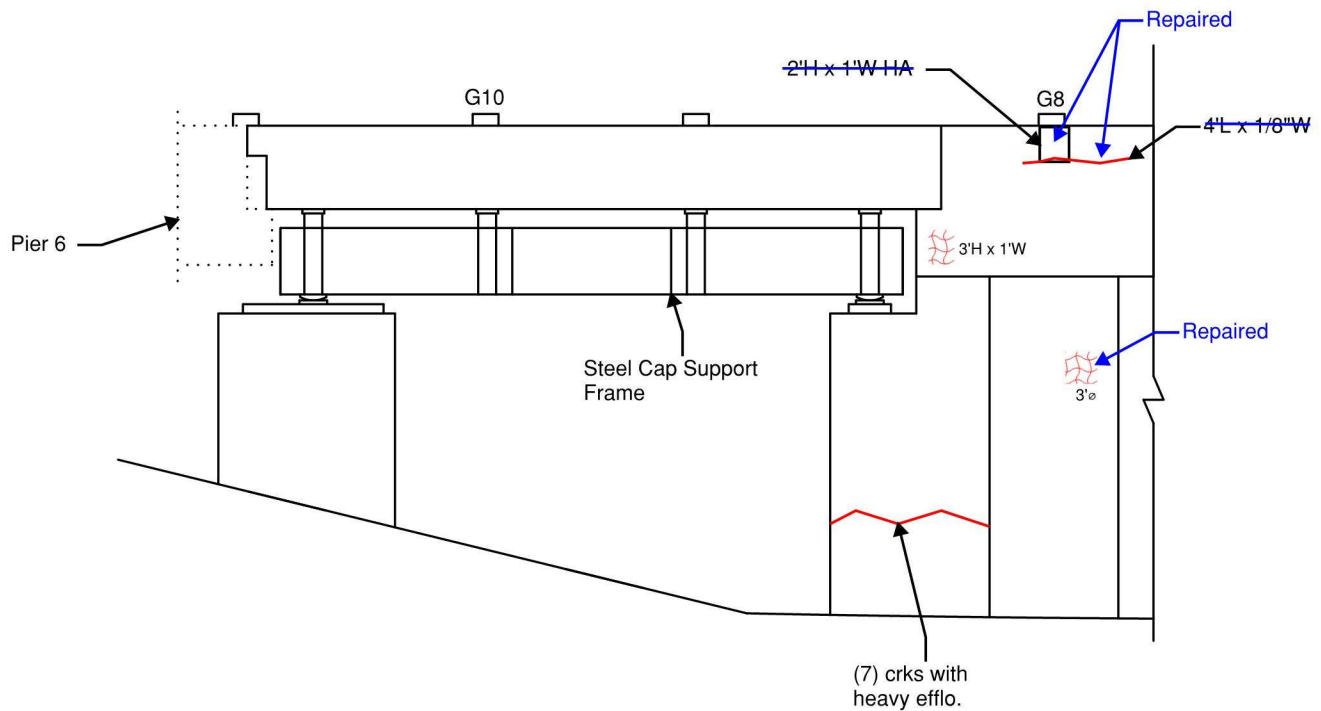
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 4 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 12 LF of concrete patches on the cap

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

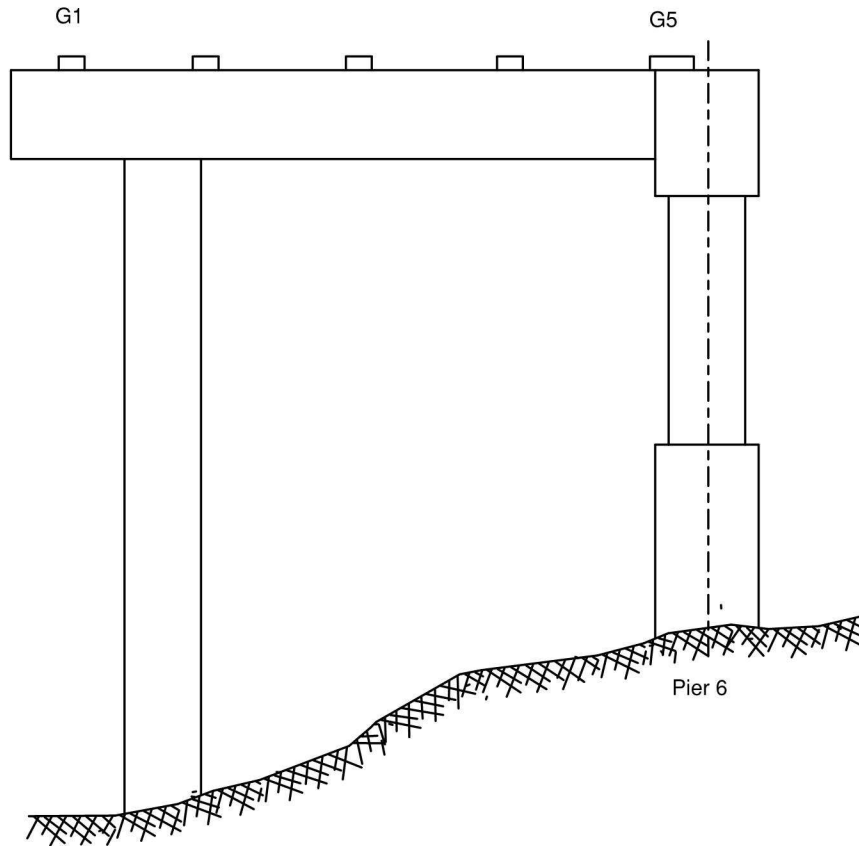
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



Pier 5 - South Elevation

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 8 LF of concrete patches on the cap
- Moderate debris on top of the pier cap

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

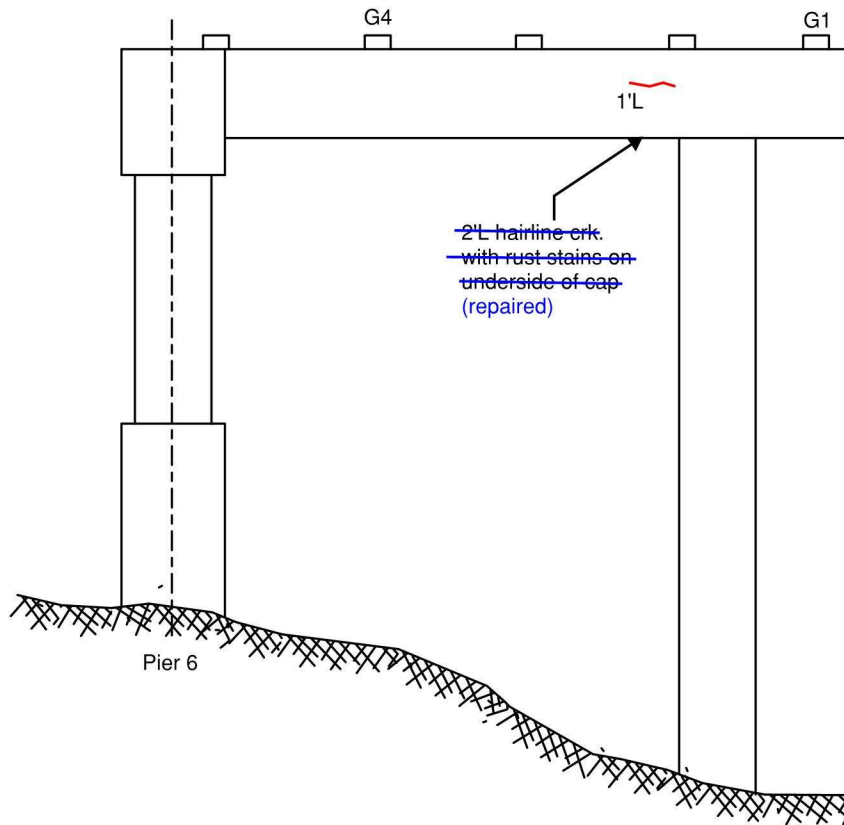
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



North
Pier 5 - ~~South~~ Elevation

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 12 LF of concrete patches on the cap
- Moderate debris on top of the pier cap

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

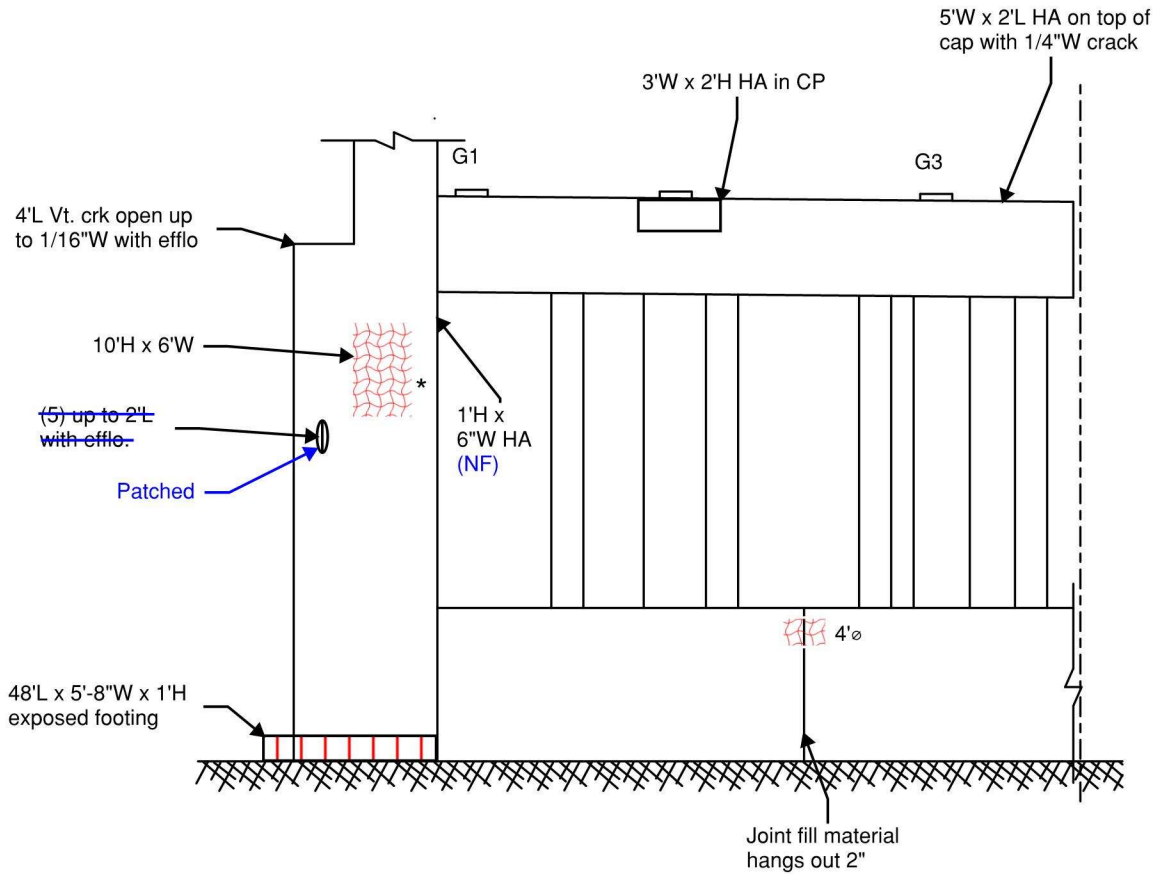
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 6 - South Elevation
(West Quarter)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- Random horizontal hairline cracks and map cracking on the pier wall.
- North elevation of pier 6 was not inspected this inspection, due to inability to get track access. ~~There will be a special inspection for this span will be completed in 2017.~~

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- NF Not Found

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

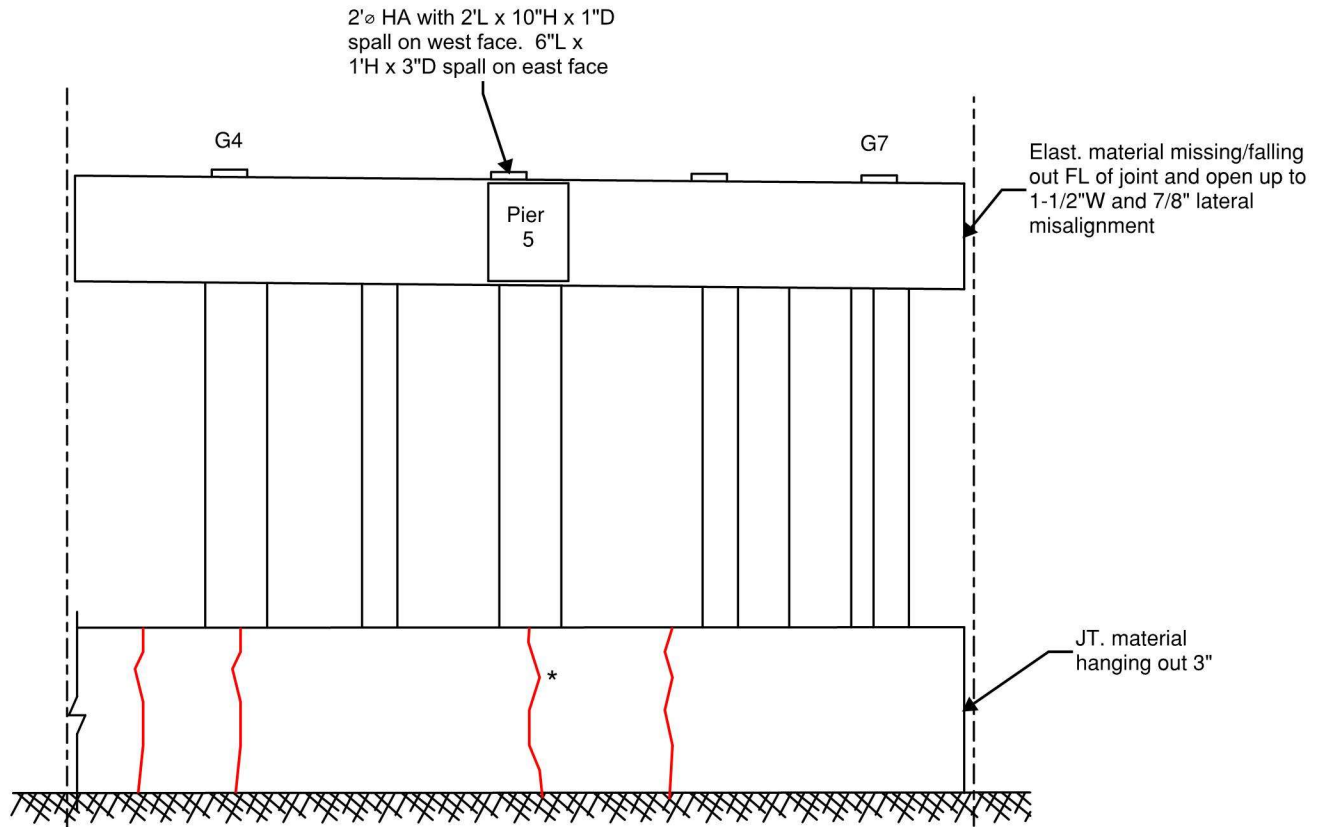
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 6 - South Elevation
(West Center Quarter)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- Random horizontal hairline cracks and map cracking on the pier wall.
- North elevation of pier 6 was not inspected this inspection, due to inability to get track access. There will be a special inspection for this span will be completed in 2017.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

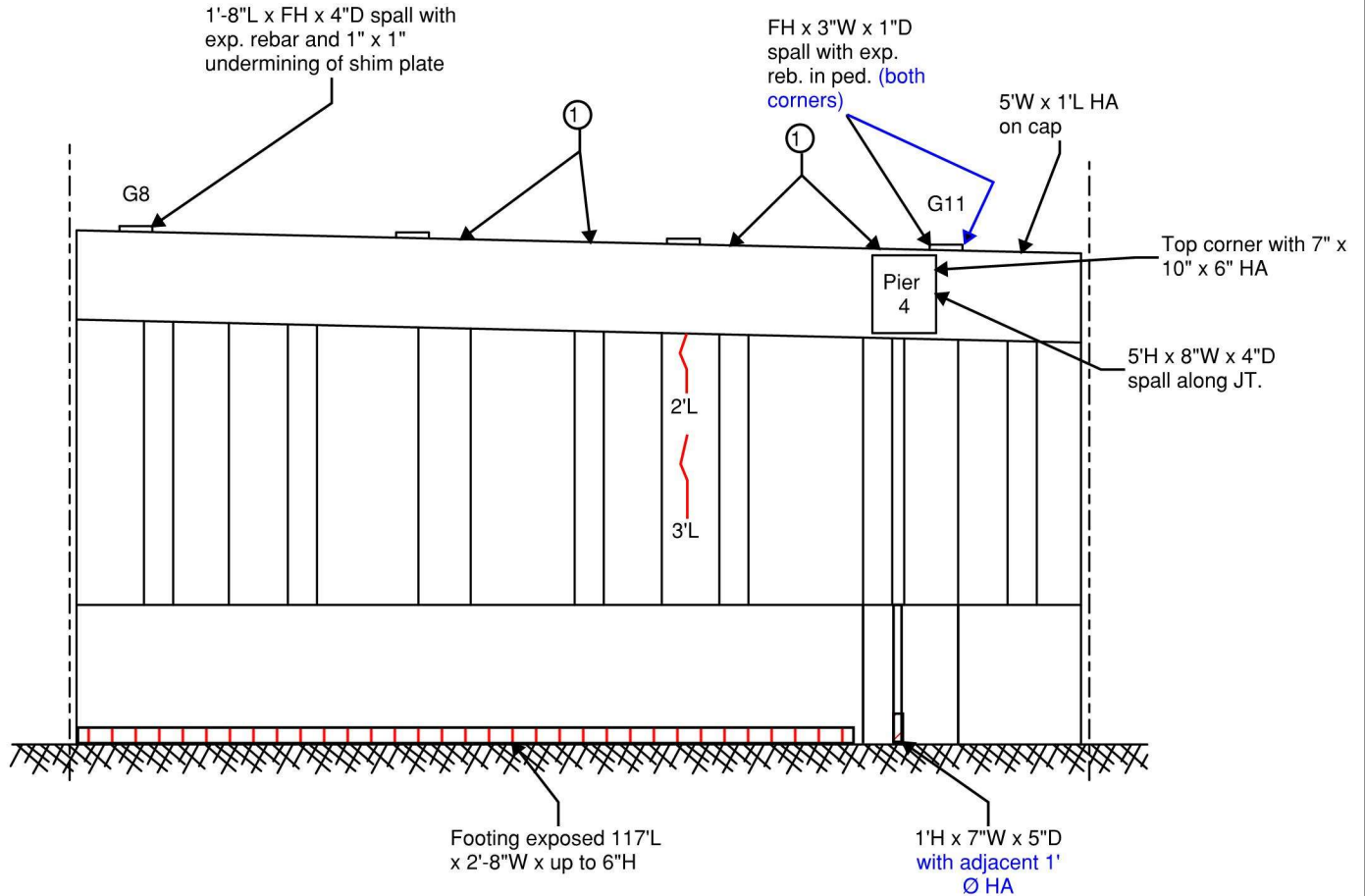
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 6 - South Elevation
(East Center Quarter)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- Random horizontal hairline cracks and map cracking on the pier wall.
- North elevation of pier 6 was not inspected this inspection, due to inability to get track access. There will be a special inspection for this span will be completed in 2017.

Deterioration Notes:

- ① - 3' W x 1'L HA on top of pier cap

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

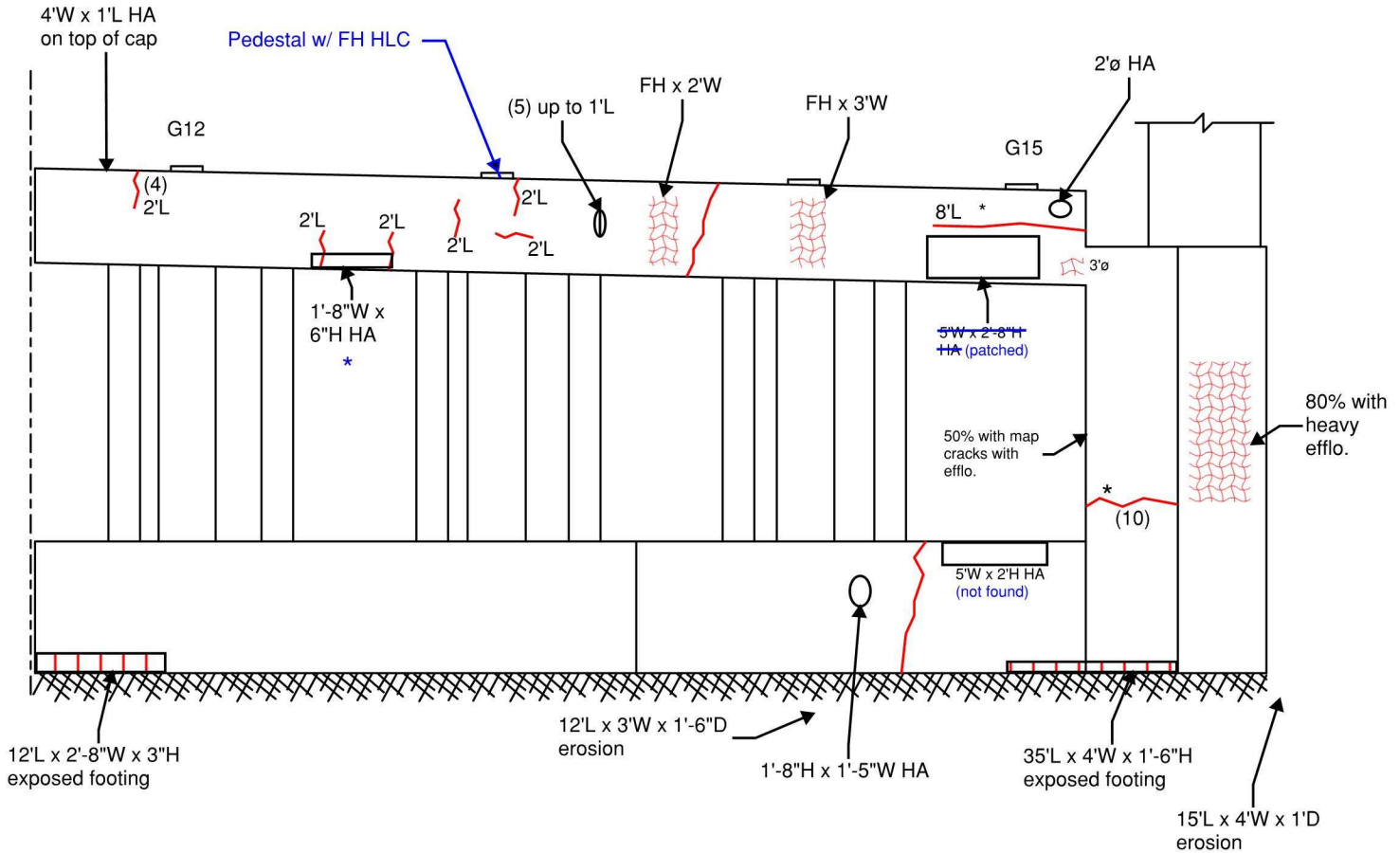
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, ABB (TSC)

DATE: 12/08/2016

BRIDGE NO.: 00032



**Pier 6 - South Elevation
(East Quarter)**

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

General Notes:

- See "Pier 0 - South Elevation" general notes.
- Random horizontal hairline cracks and map cracking on the pier wall.
- Active leakage at random locations.
- North elevation of pier 6 was not inspected this inspection, due to inability to get track access. There will be a special inspection for this span will be completed in 2017.

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

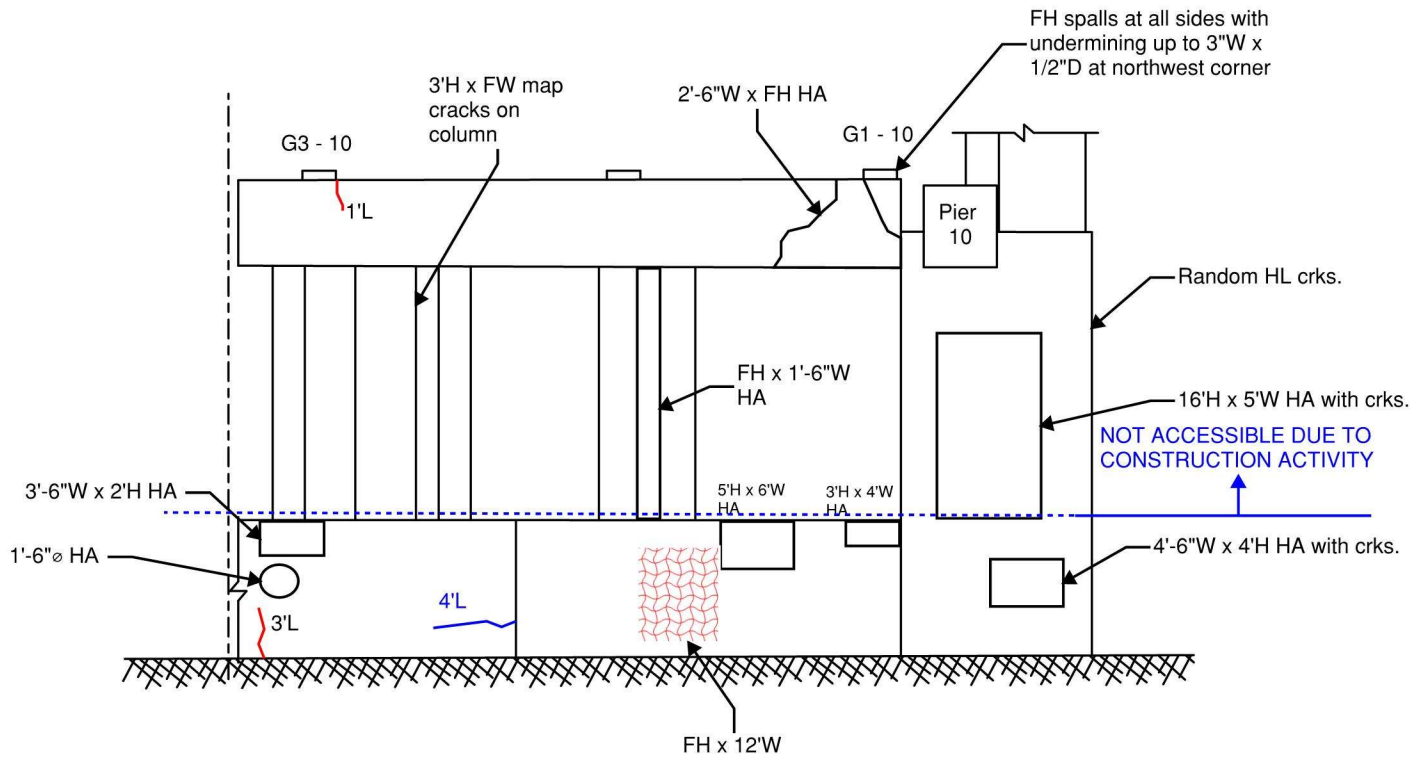
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 7 - North Elevation
(West Quarter)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- South elevation of pier 7 was not inspected this inspection, due to inability to get track access. There will be a special inspection for this span will be completed in 2017.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

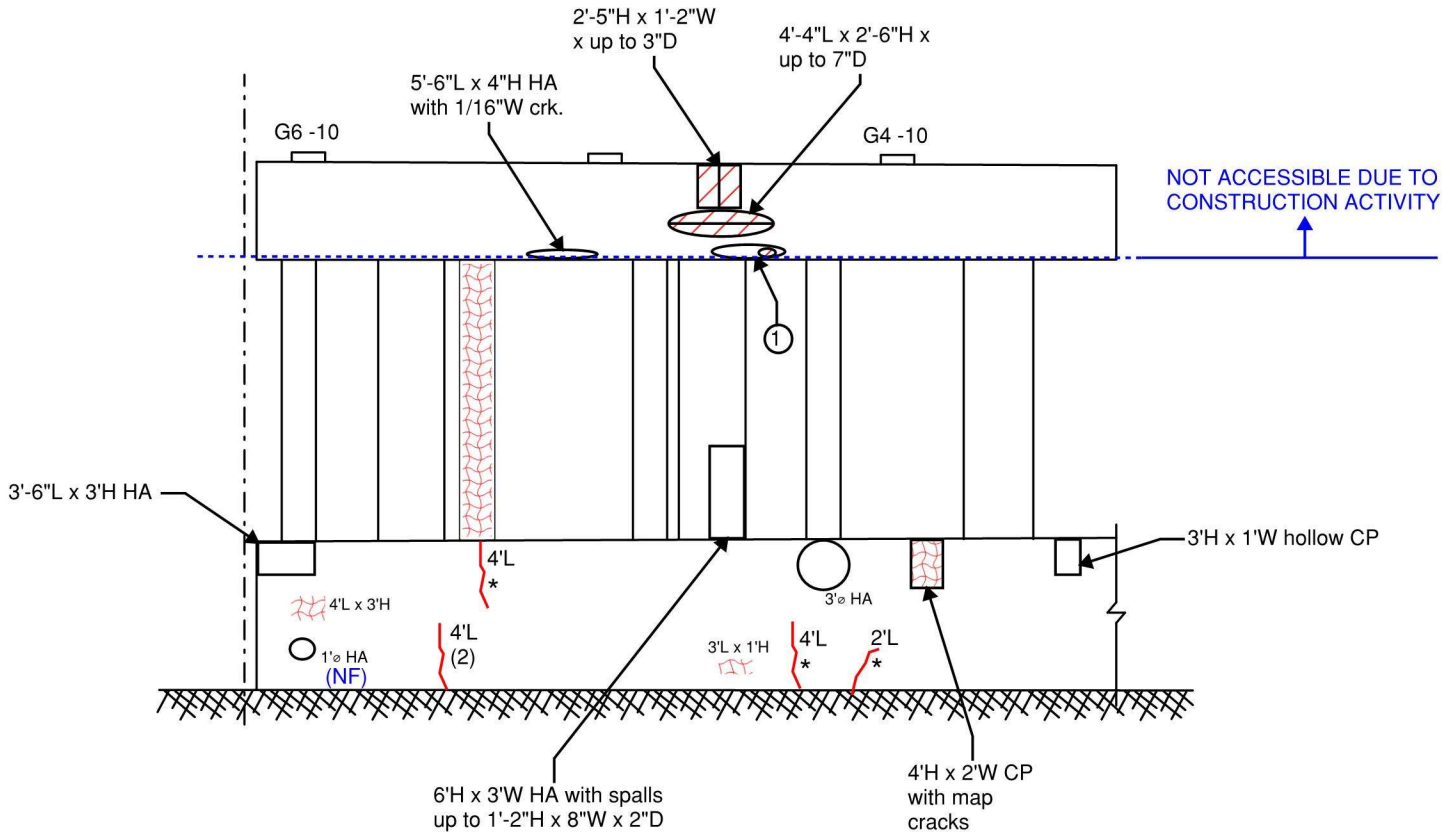
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 7 - North Elevation
(West Center Quarter)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- South elevation of pier 7 was not inspected this inspection, due to inability to get track access. There will be a special inspection for this span will be completed in 2017.

Deterioration Notes:

- ① - 2' long x 7" high HA with 10"L x 5"H x 2"D spall

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - CP Concrete patch
 - NF Not found
 - HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

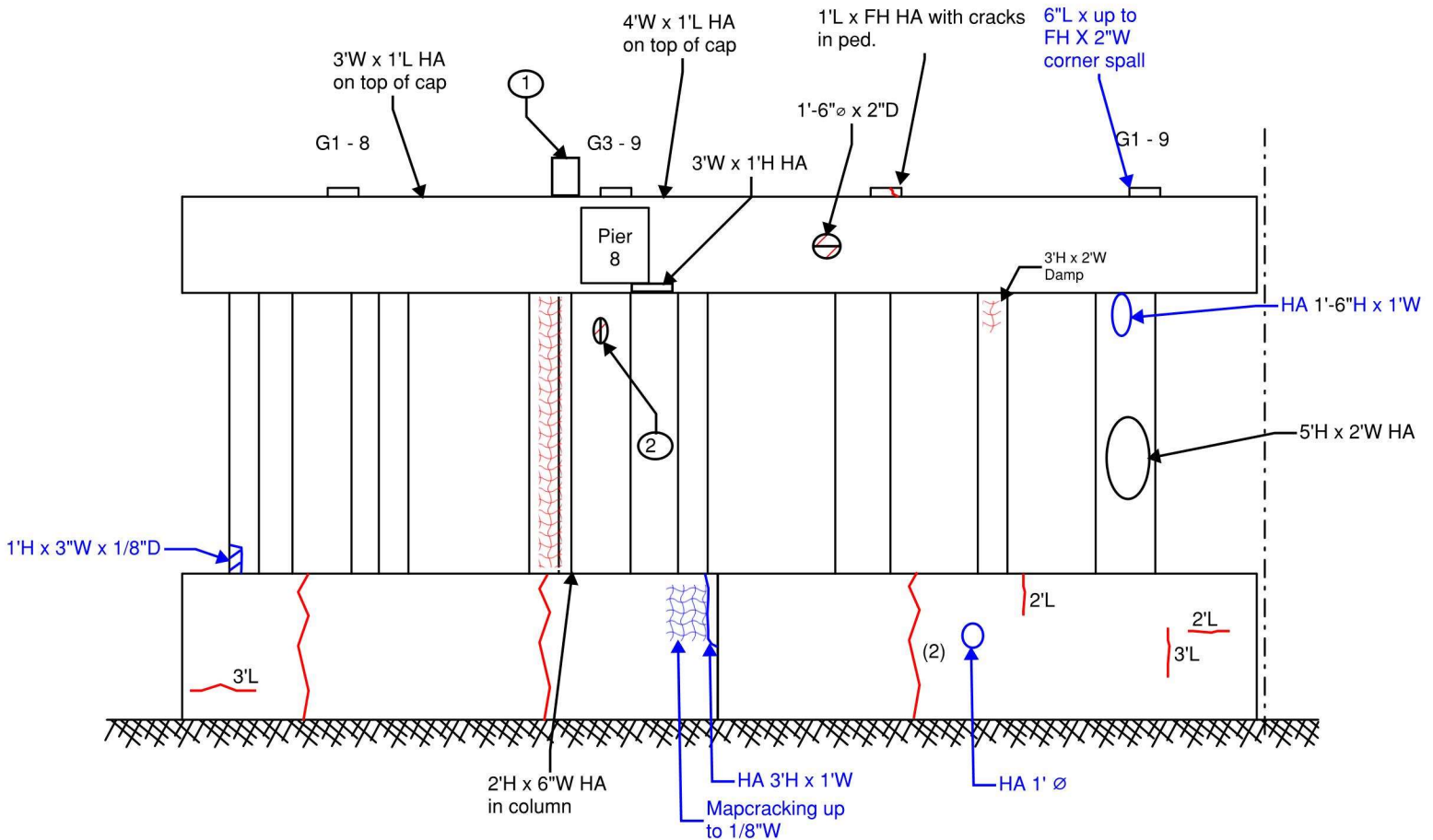
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 7 - North Elevation
(East Center Quarter)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- Moderate graffiti along the pier wall.
- South elevation of pier 7 was not inspected this inspection, due to inability to get track access. **There will be a special inspection for this span will be completed in 2017.**

Deterioration Notes:

- ① - End diaph. pedestal at pier 7 has a 1'-6"H x 7"W x 2-1/2"D spall and a 1'-6"H x 4"W x 2-1/2"D spall with exp/debonded rebar at NE corner
- ② - ~~3'H x 2'W HA with~~ (2) Spall up to 3'H x 2'W x 3"D with exposed rebar

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

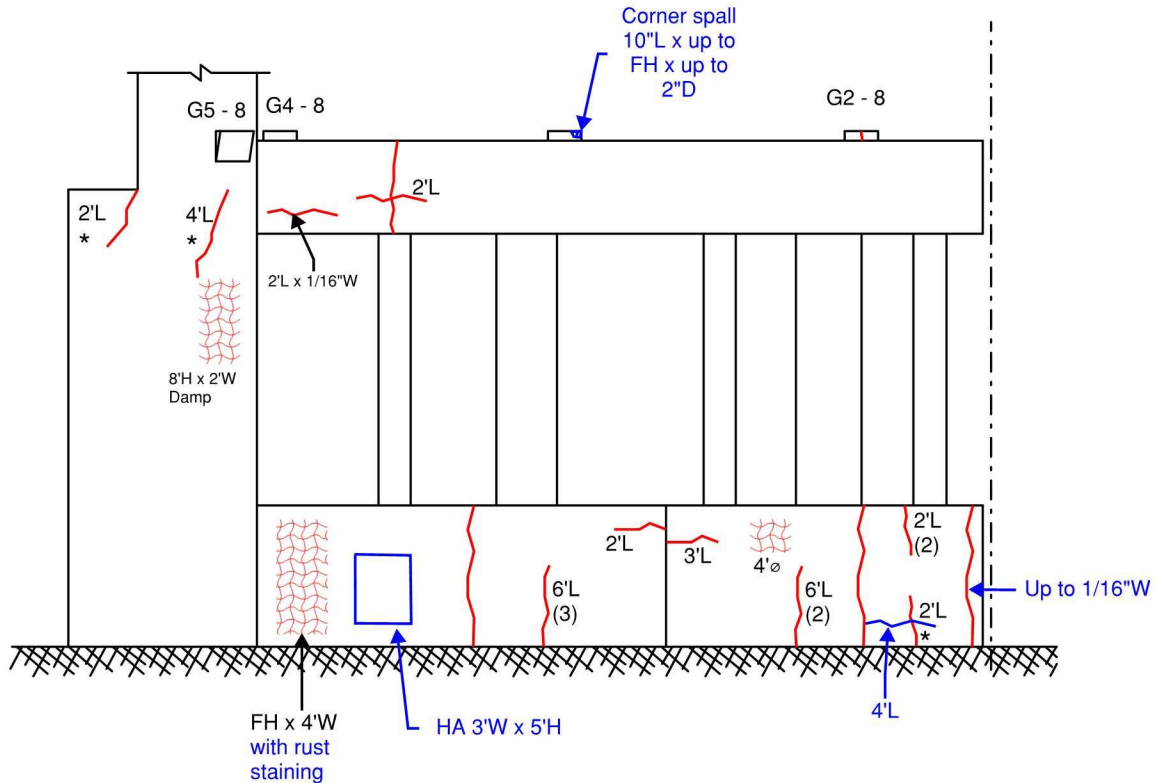
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 7 - North Elevation
(East Quarter)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- Moderate graffiti along the pier wall.
- South elevation of pier 7 was not inspected this inspection, due to inability to get track access. **There will be a special inspection for this span will be completed in 2017.**

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

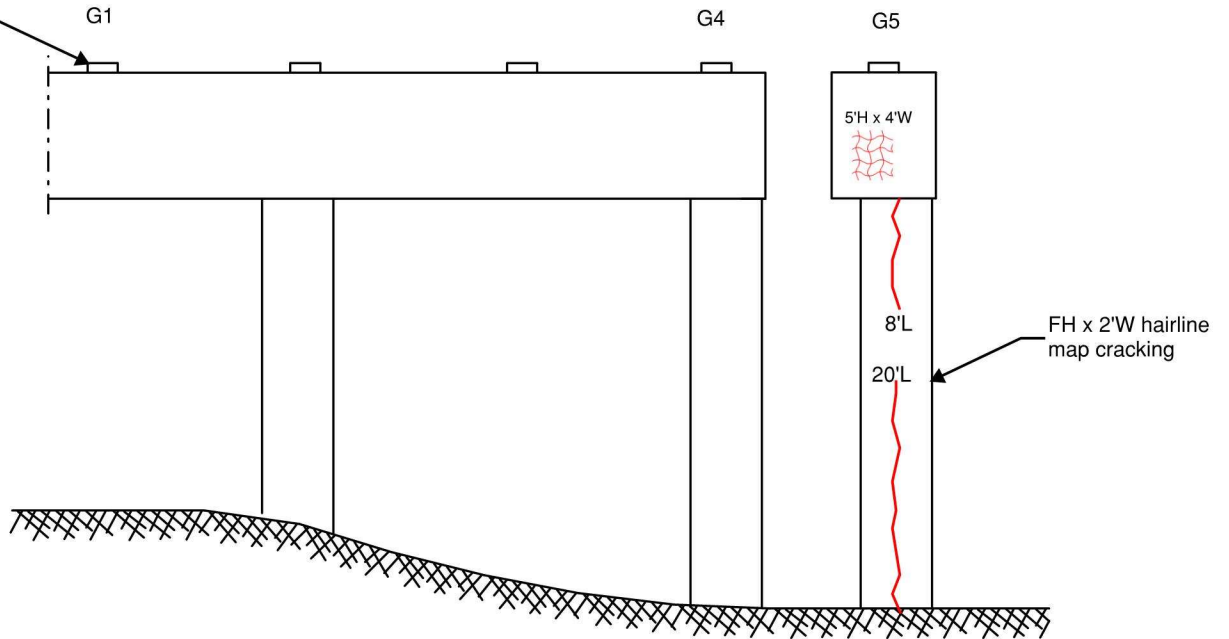
Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032

FH x 1/16"W crk
with efflo on ped.
(NF)



Pier 8 - South Elevation

General Notes:

- See "Pier 0 - South Elevation" general notes.
- Debris on top of cap near the bearings.
- There is a total of 20LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- NF Not found

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

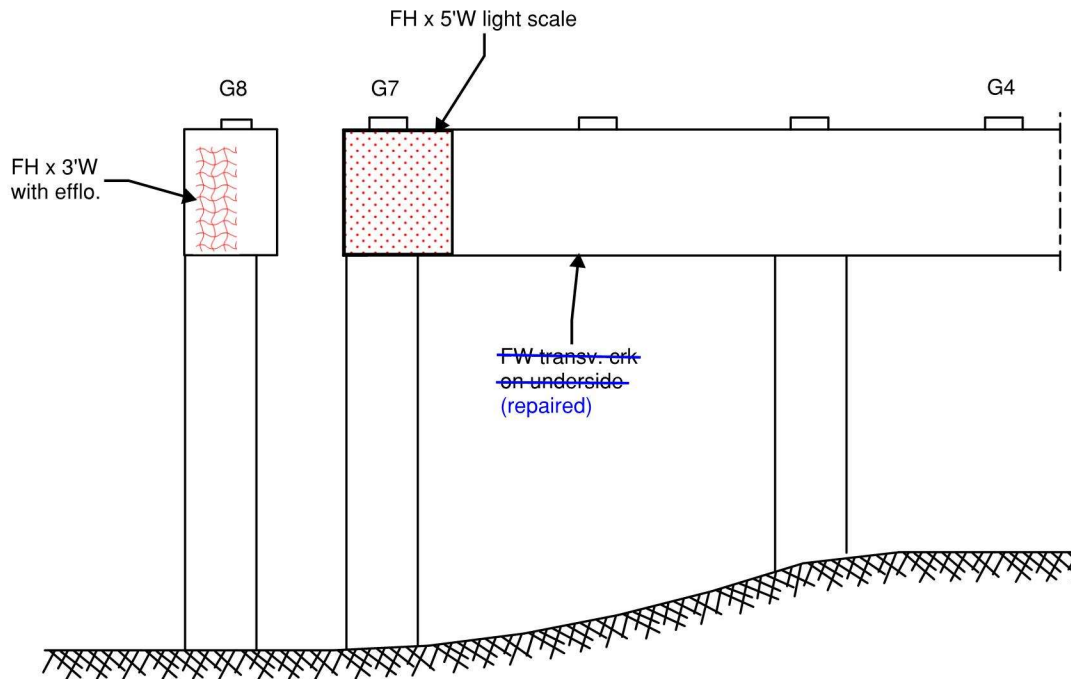
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Pier 8 - North Elevation

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 20LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

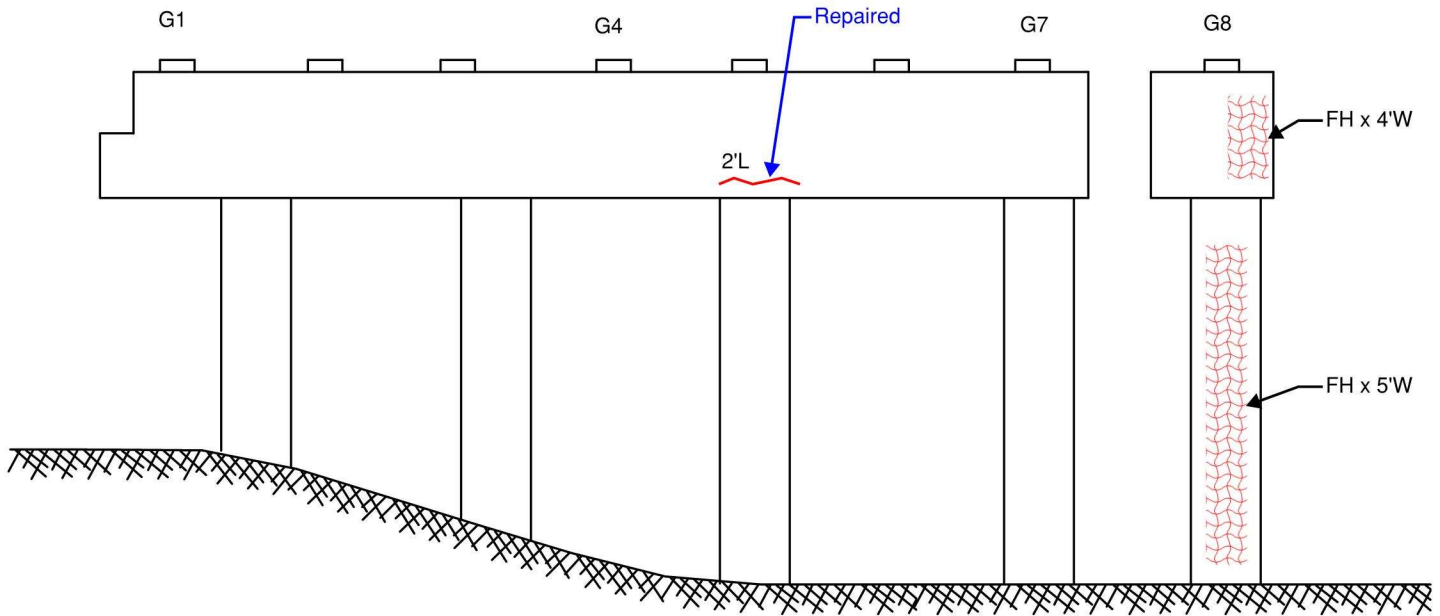
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Pier 9 - South Elevation

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 10LF of concrete patches on the pier caps.
- There are vertical hairline cracks up to FH on the concrete pedestals.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

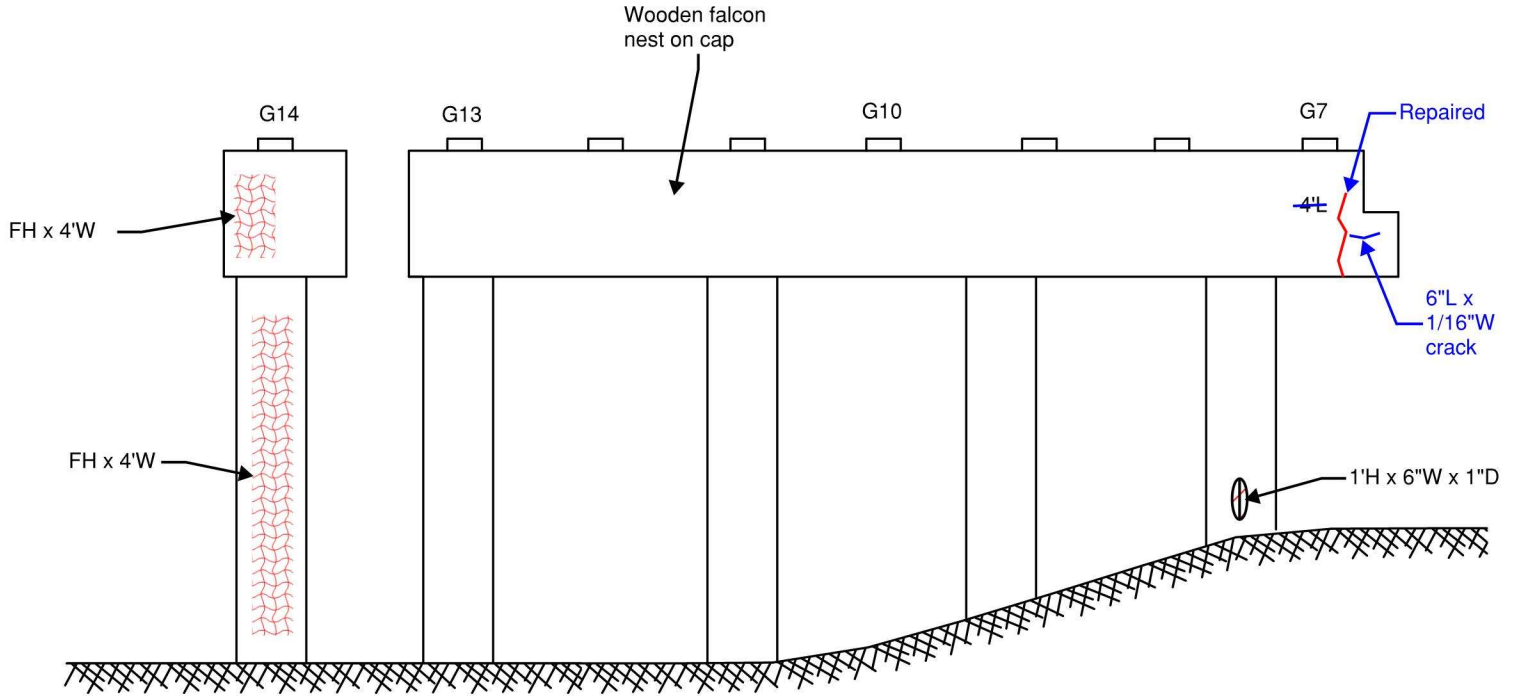
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Pier 9 - North Elevation

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 35LF of concrete patches on the pier caps.
- There are vertical hairline cracks up to FH on the concrete pedestals and are painted over.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

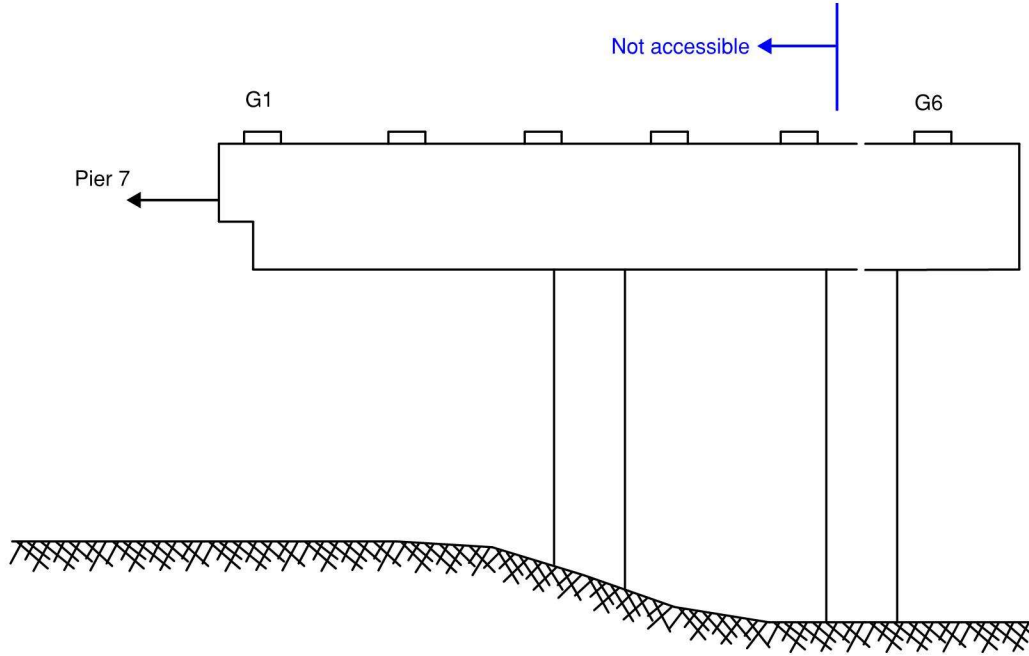
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 10 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 25LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

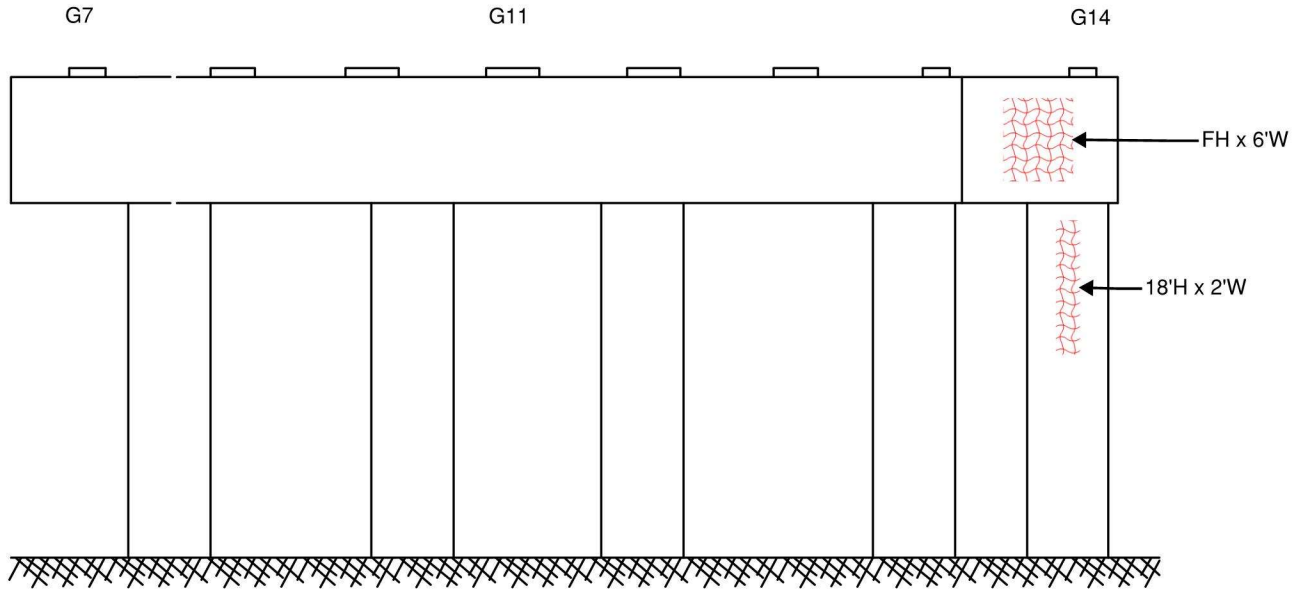
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 10 - South Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 25LF of concrete patches on the pier caps.
- There are vertical hairline cracks up to full height in the concrete pedestals and are painted over.

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

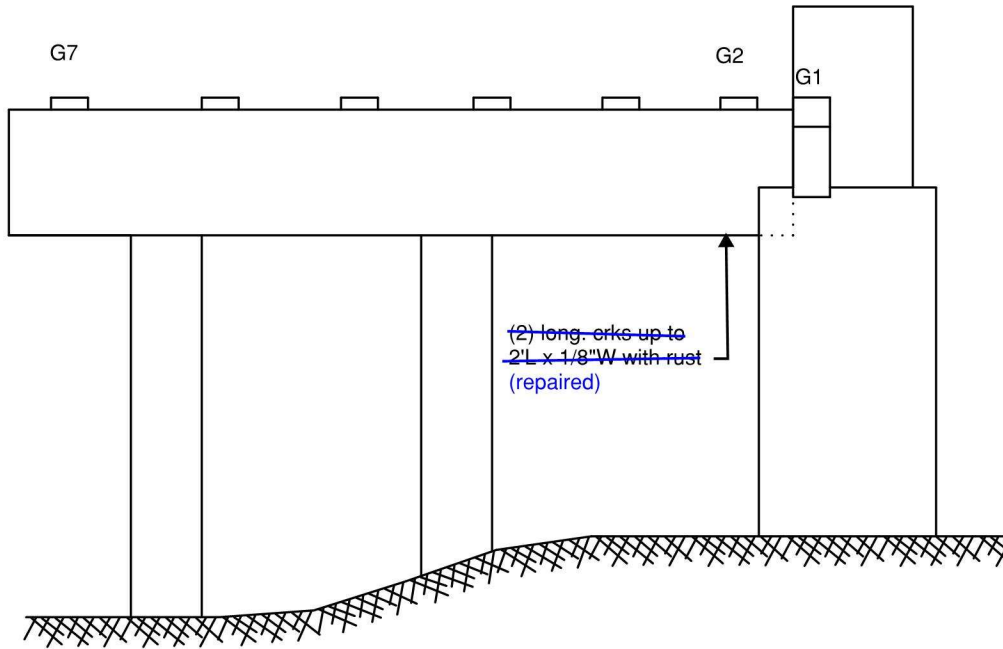
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 10 - North Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 10LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

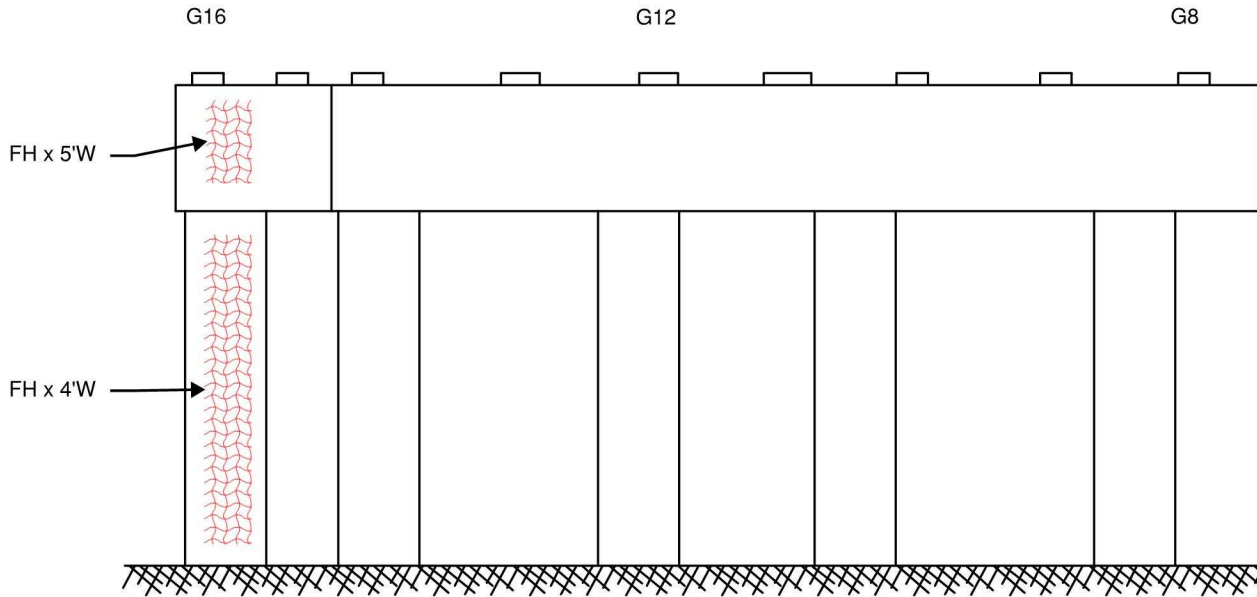
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 10 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 25LF of concrete patches on the pier caps.
- The concrete pedestals have full height hairline cracks that extend to the bearing **and are painted over**.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

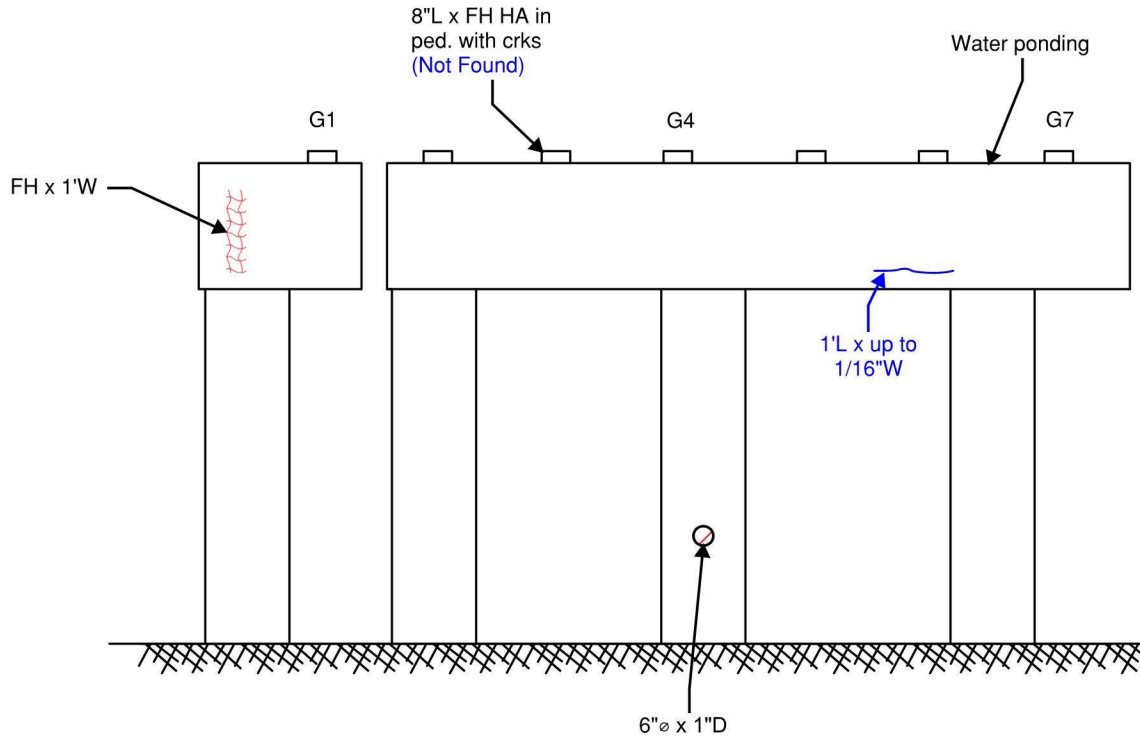
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 11 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 25 LF of concrete patches on the pier caps.
- The concrete pedestals have vertical hairline cracks up to full height and are painted over.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

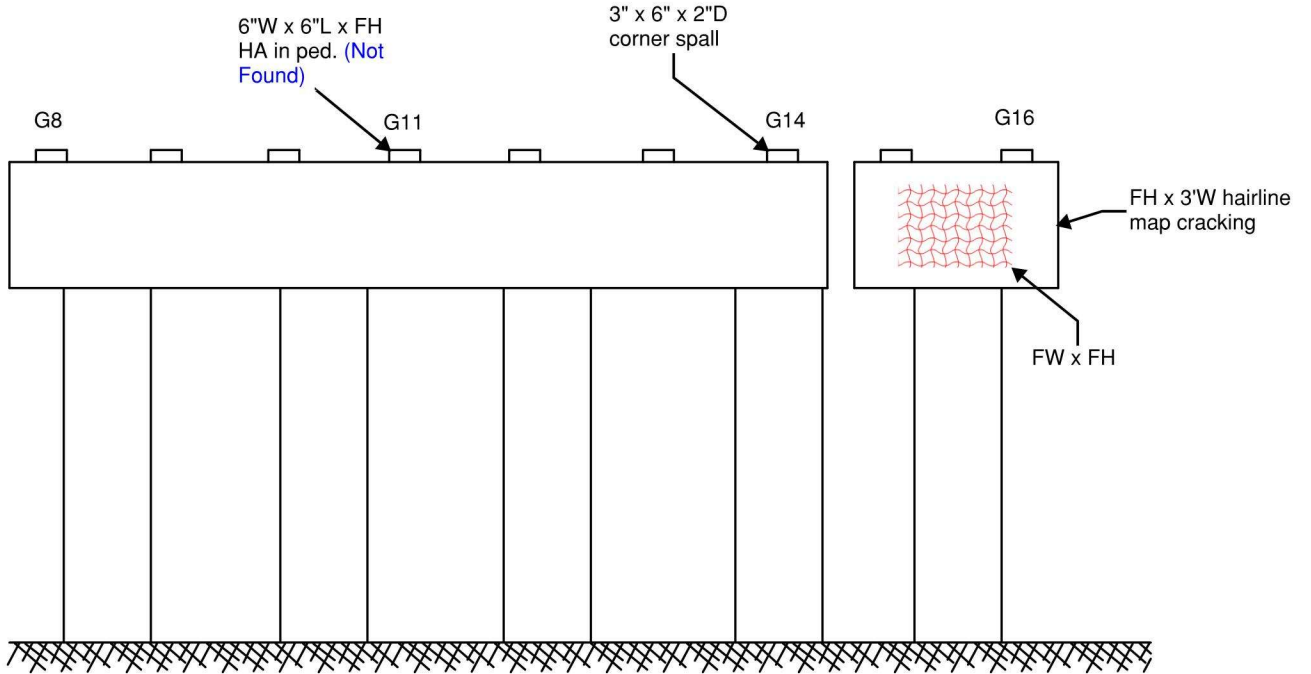
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 11 - South Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 20 LF of concrete patches on the pier caps.
- The concrete pedestals have vertical hairline cracks up to full height and are painted over.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

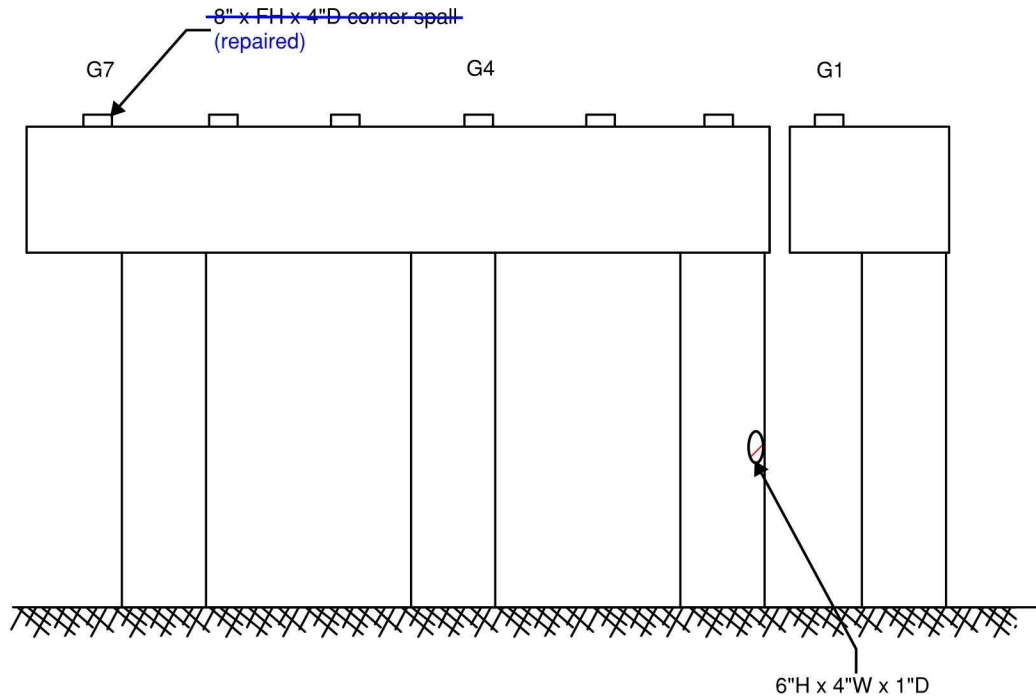
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 11 - North Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 20 LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

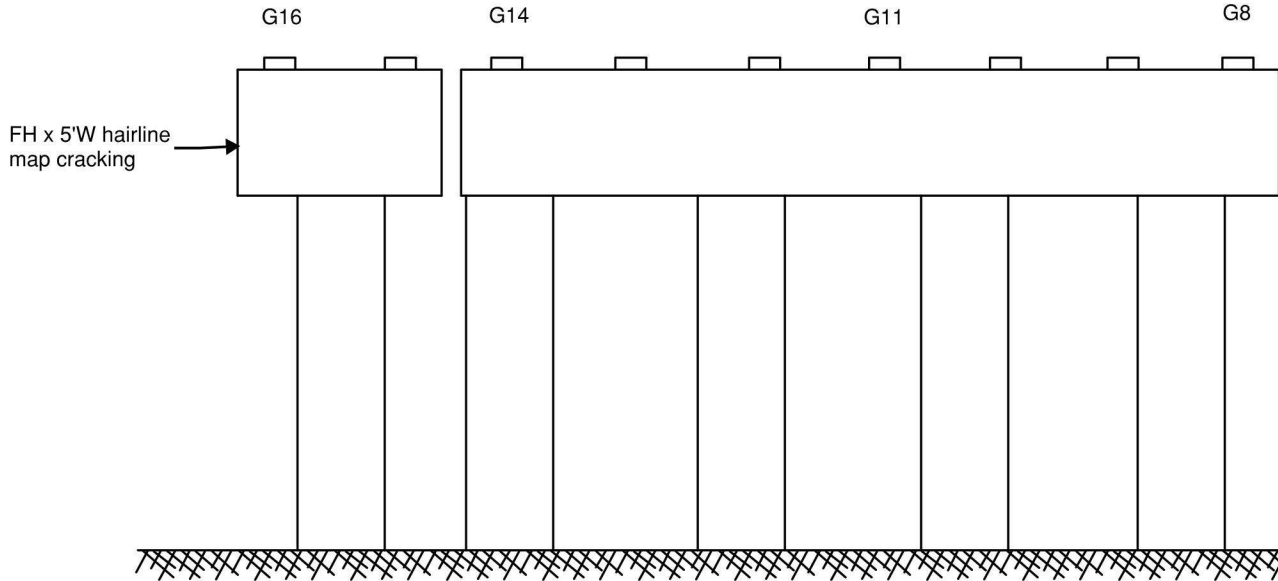
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Pier 11 - North Elevation
(East Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 18 LF of concrete patches on the pier caps.
- The concrete pedestals have full height vertical cracks open up to 1/16" wide and are painted over.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

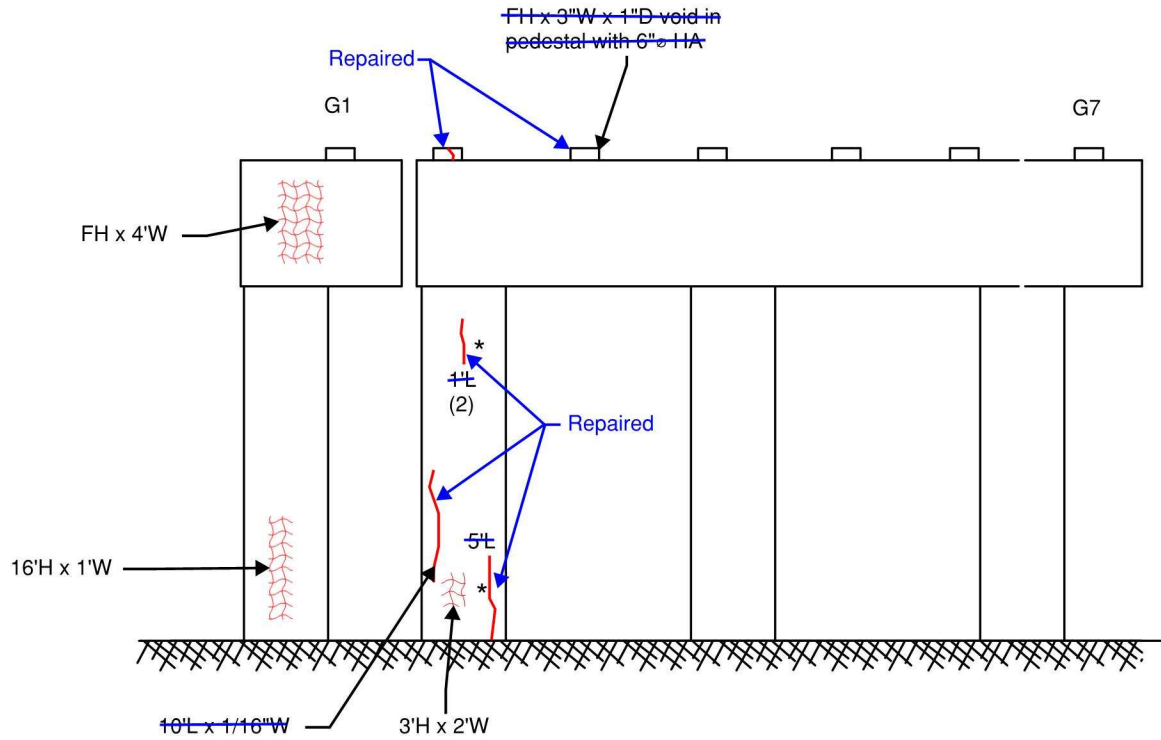
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



**Pier 12 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 12 LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

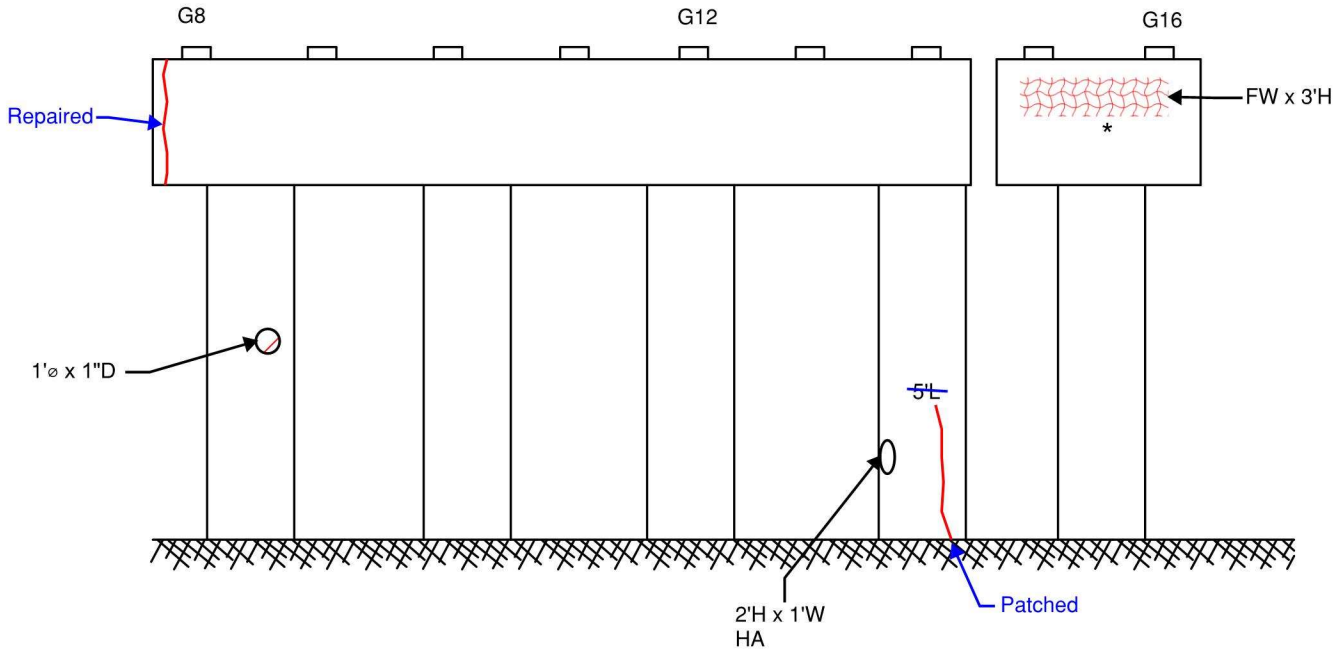
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 12 - South Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 40 LF of concrete patches on the pier caps.
- The concrete pedestals have vertical hairline up to full height of the pedestals **and are painted over.**

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

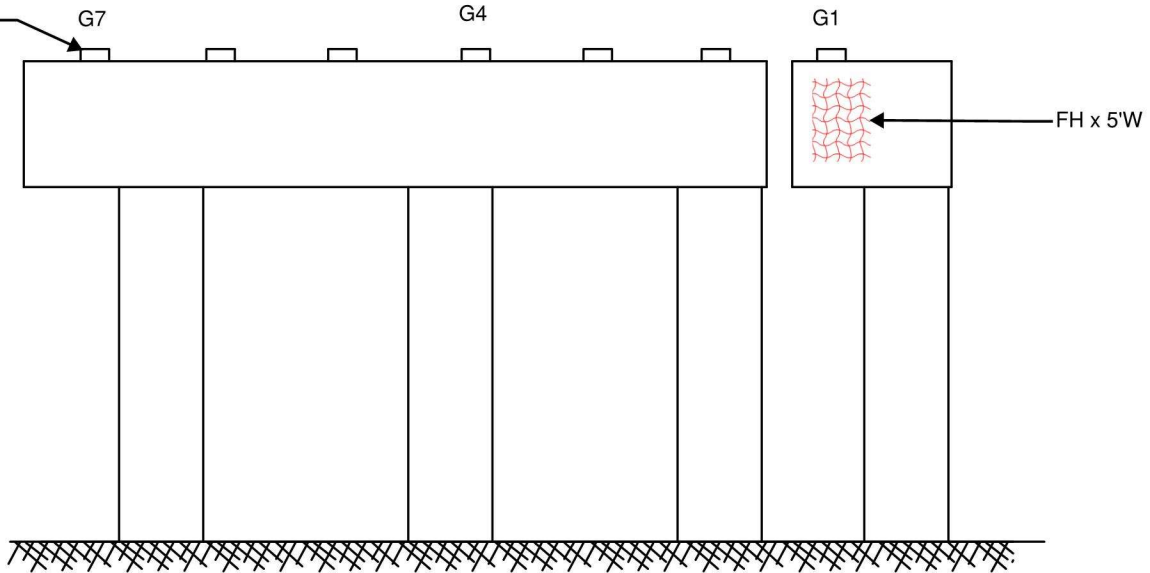
Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032

3"L x FH x 2-1/2"D
corner spall



Pier 12 - North Elevation
(West Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 24 LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

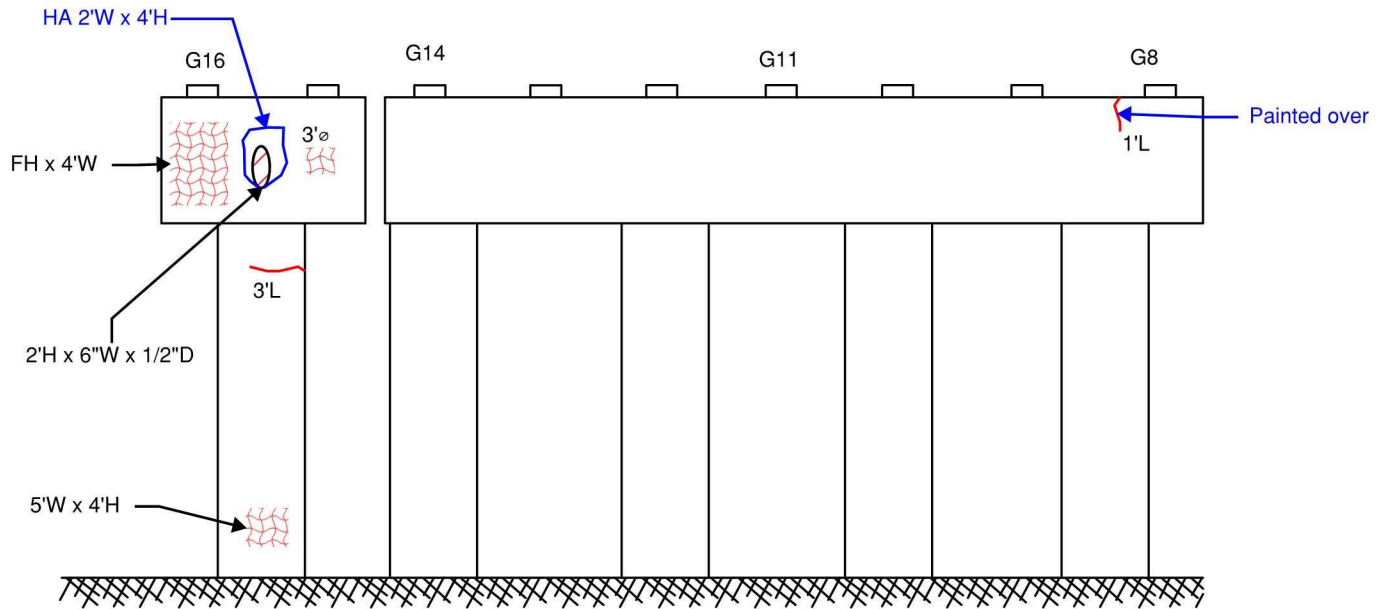
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 12 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 15 LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch
- HA Hollow area

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

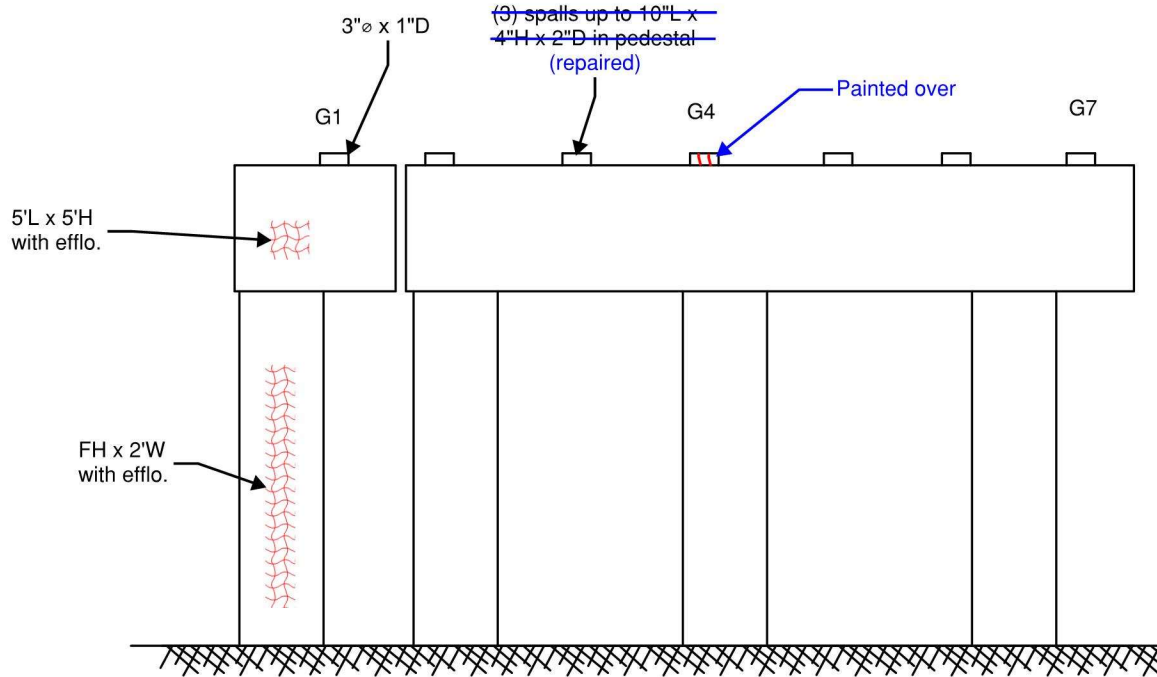
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 13 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 24 LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

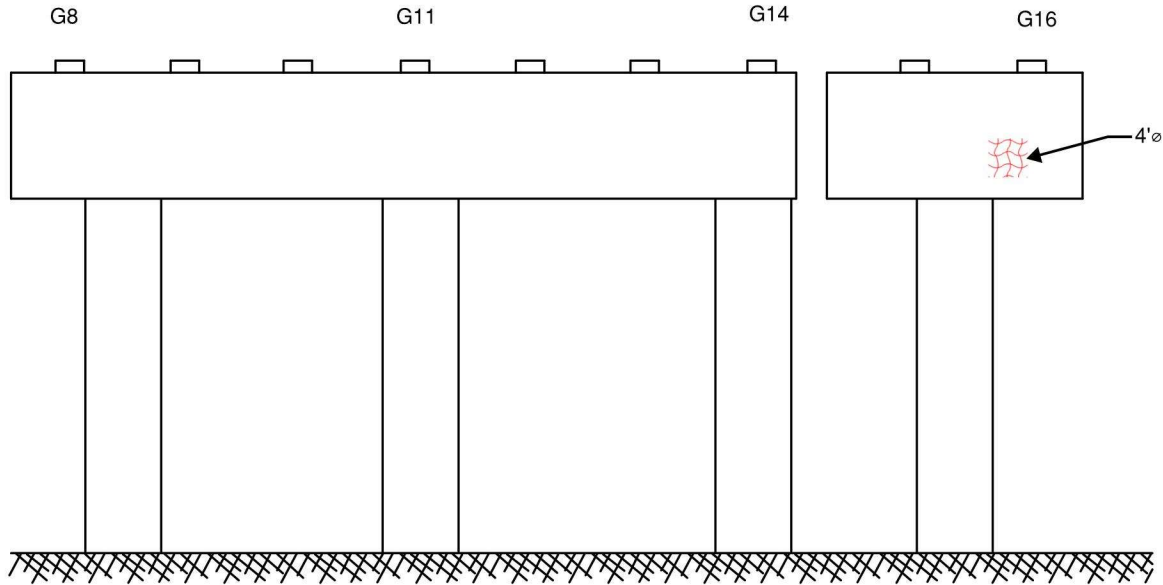
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, JSM (TSC)

DATE: 12/06/2016

BRIDGE NO.: 00032



Pier 13 - South Elevation
(East Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 12 LF of concrete patches on the pier caps.
- Falcon nest on cap in bay 11

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

NO CHANGE

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

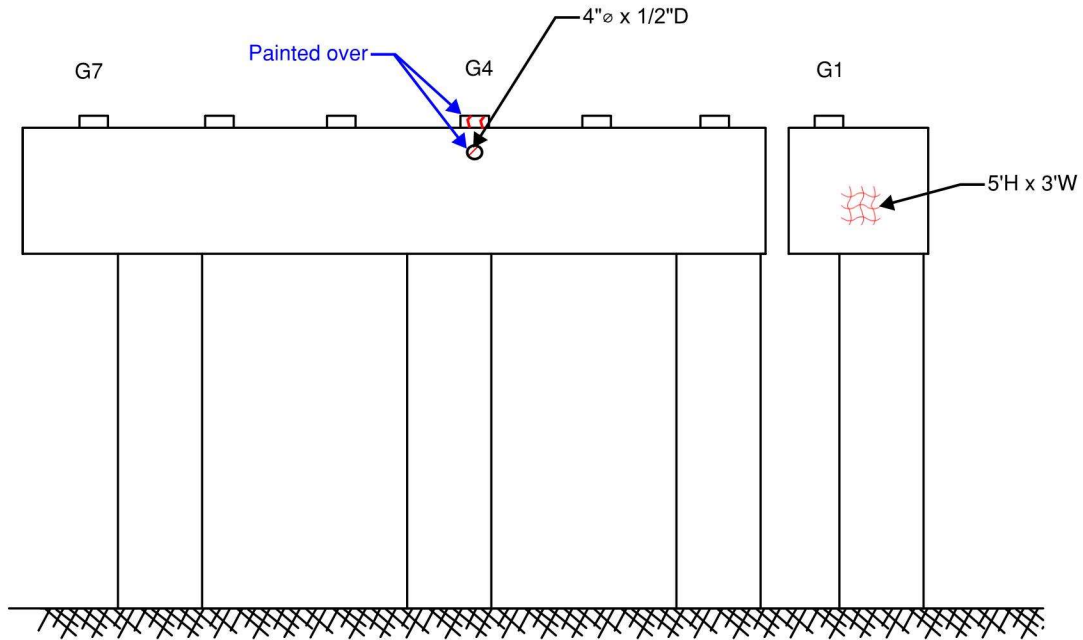
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 13 - North Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 12 LF of concrete patches on the pier caps.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

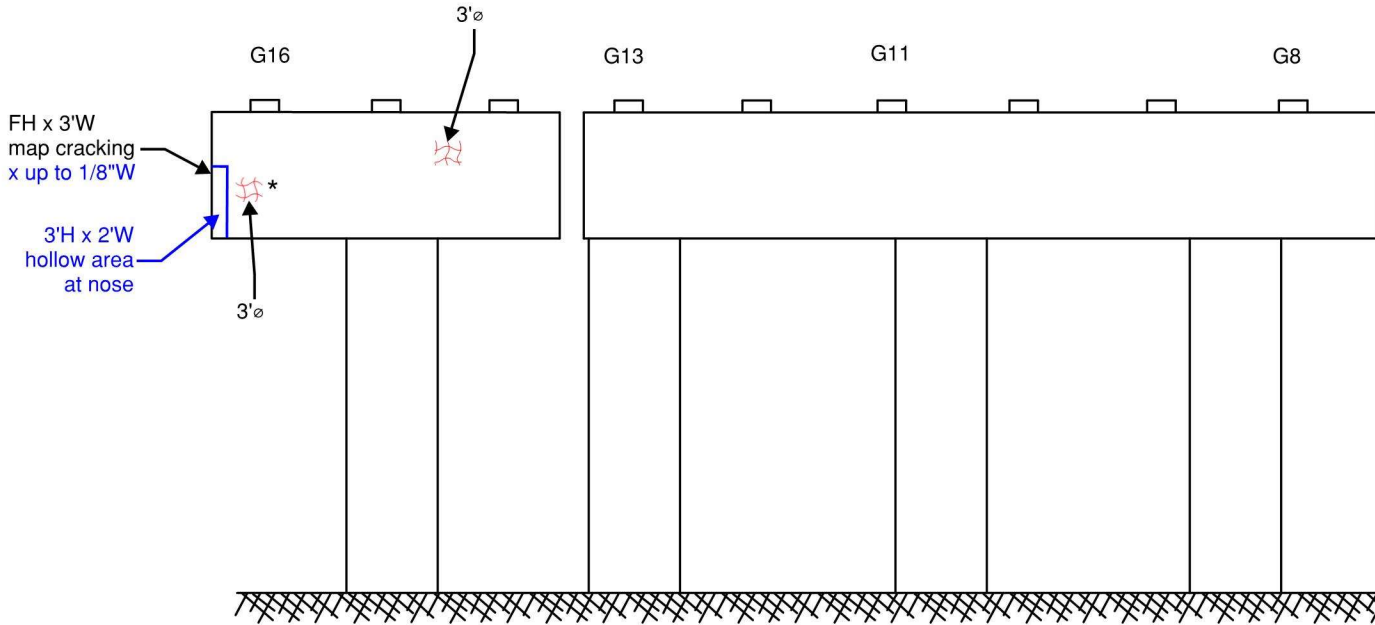
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 13 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 24 LF of concrete patches on the pier caps.
- Concrete pedestals have full height hairline cracks and are painted over.

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

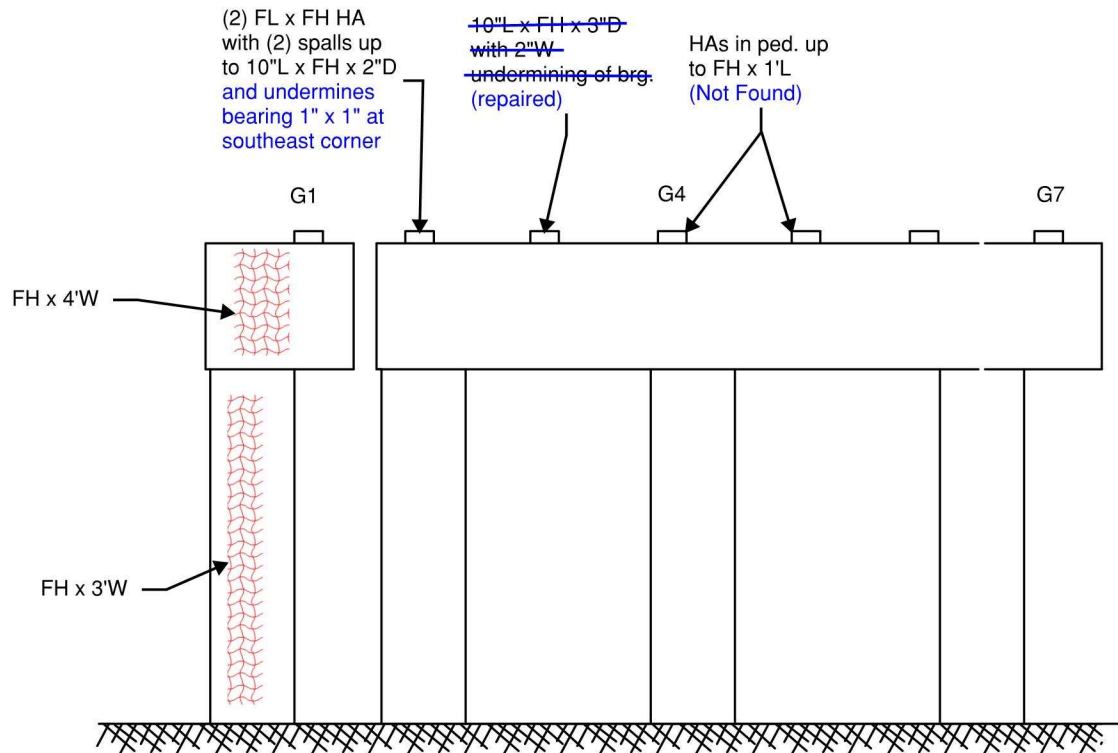
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 14 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 24 LF of concrete patches on the pier caps.
- Active leakage at random locations.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

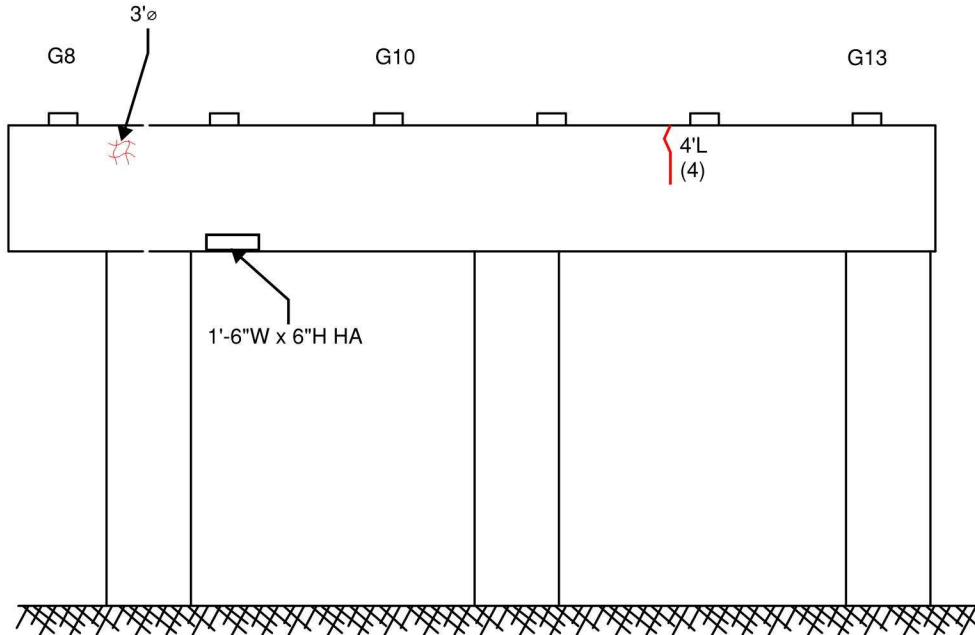
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



Pier 14 - South Elevation
(East Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 20 LF of concrete patches on the pier caps.
- Concrete pedestals have vertical hairline cracks up to full height and are painted over.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

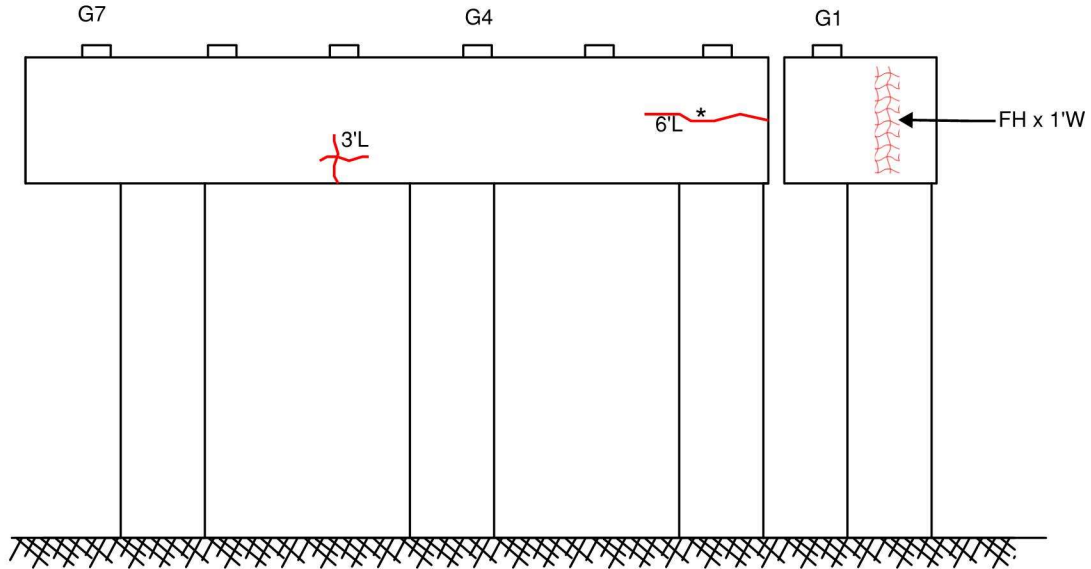
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 14 - North Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 12 LF of concrete patches on the pier caps.
- Concrete pedestals have vertical hairline cracks up to full height and are painted over.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

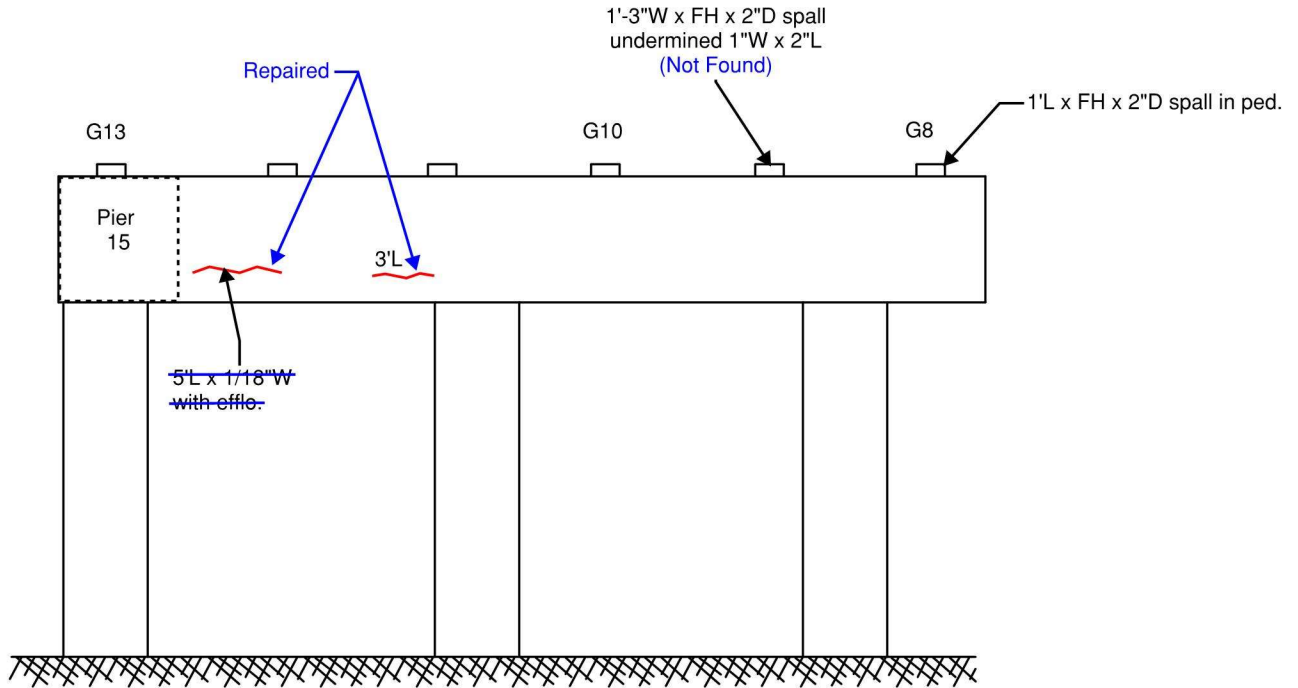
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 14 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 20 LF of concrete patches on the pier caps.
- Concrete pedestals have vertical hairline cracks up to full height **and were painted over.**
- There is active leakage at random locations.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|-----------------------|-----------------------------------|----------|-------|-------|
| REVISION | DATE: <u>10/15/18</u> | CREW: <u>JK, SD, NC, KG (ADA)</u> | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

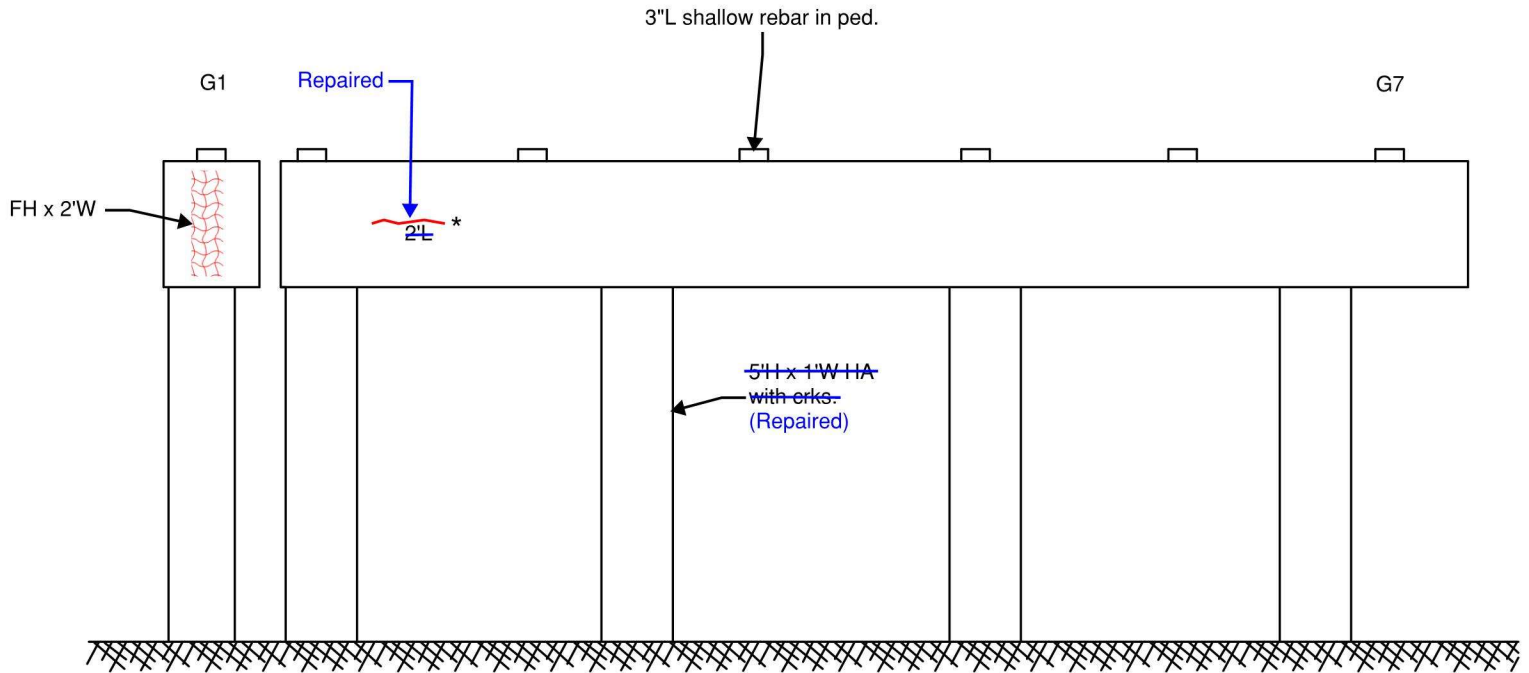
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 15 - South Elevation
(West Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 22 LF of concrete patches on the pier caps.
- Concrete pedestals have vertical hairline cracks up to full height and popout (painted over) spalls up to 5" x 2" deep (no undermining)
- There is active leakage at random locations.
- ~~The north elevation of pier 15 was not inspected this inspection, due to construction on Myrtle Avenue. This will be inspected during a special inspection in 2017.~~

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

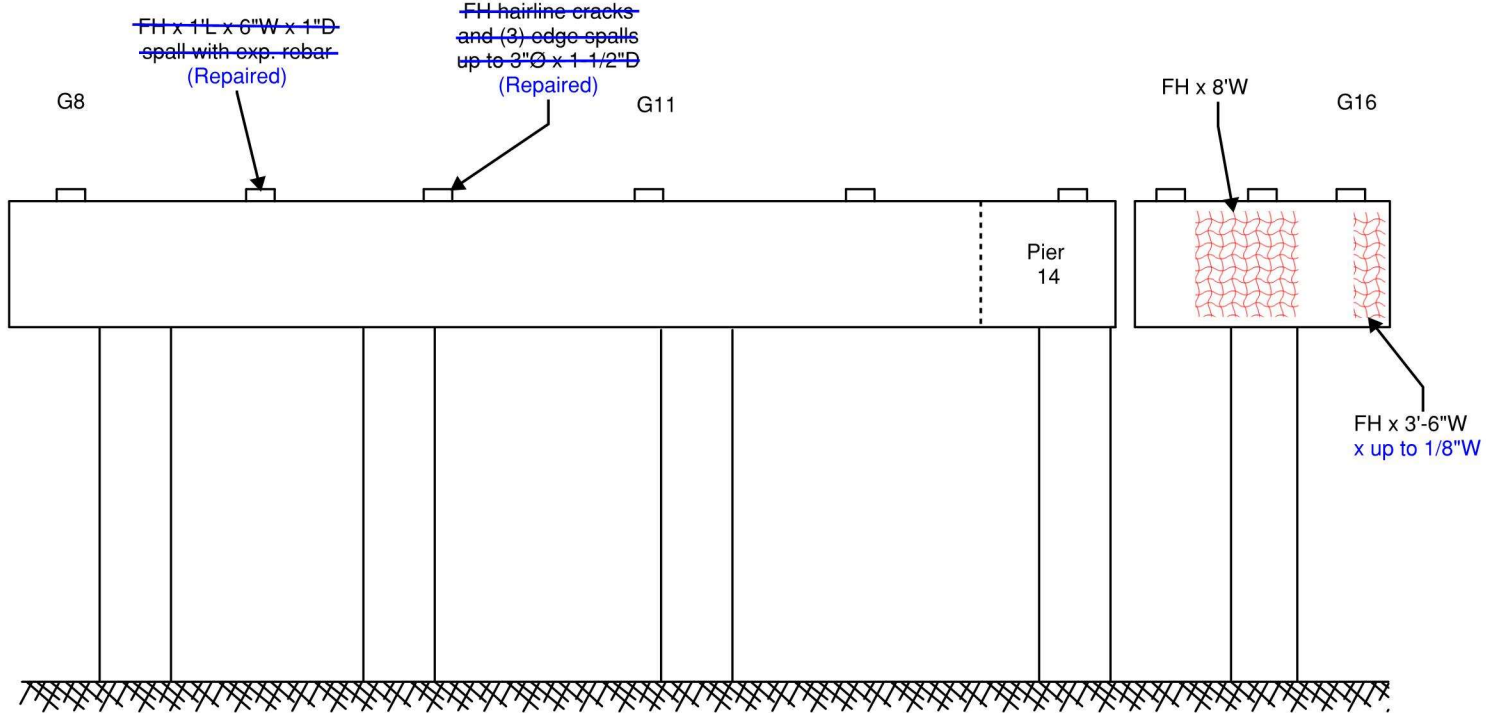
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: TE, JSM (TSC)

DATE: 12/07/2016

BRIDGE NO.: 00032



**Pier 15 - South Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 12 LF of concrete patches on the pier caps.
- ~~- The north elevation of pier 15 was not inspected this inspection, due to construction on Myrtle Avenue. This will be inspected during a special inspection in 2017.~~

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

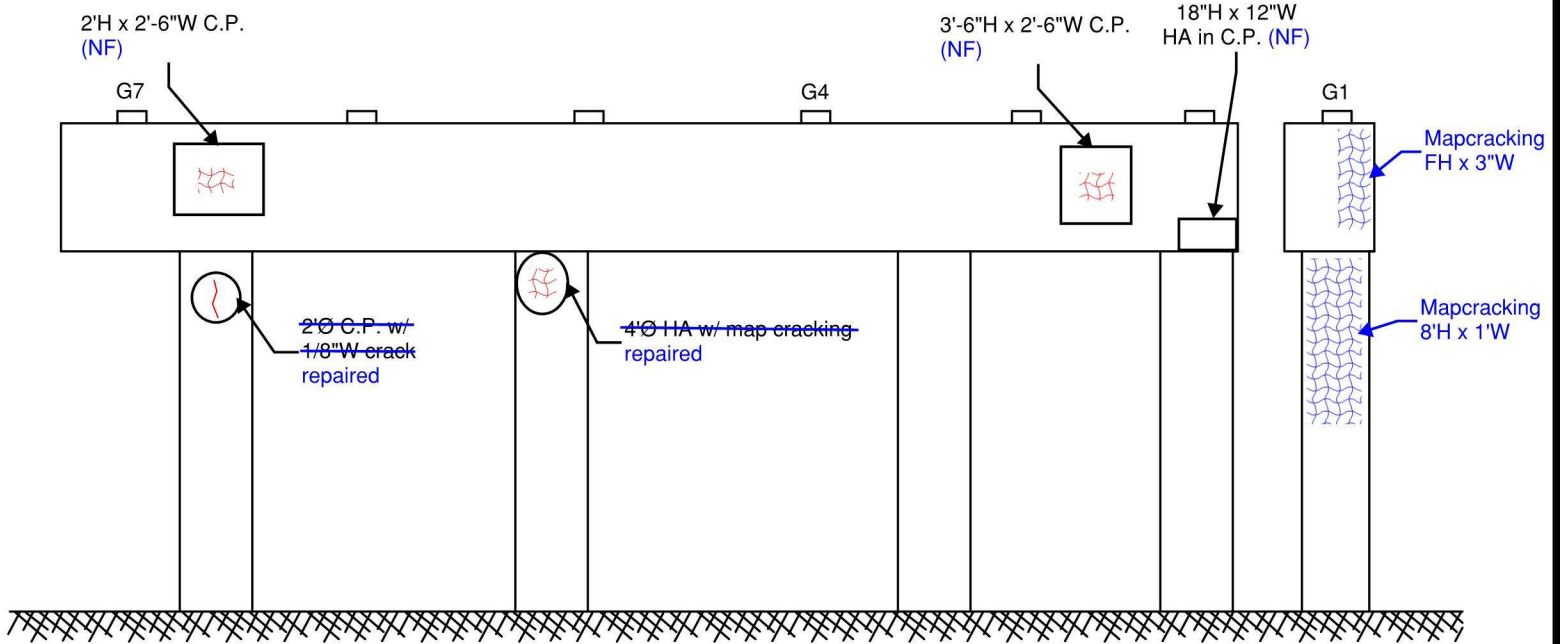
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: VLS, SP

DATE: 9/24/2017

BRIDGE NO.: 00032



- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT
 - CP
 - NF

General Notes:

- Pier caps and columns have concrete and shotcrete patches throughout
- Moderate debris on the pier caps

Pier 15 - North Elevation (West Half)

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

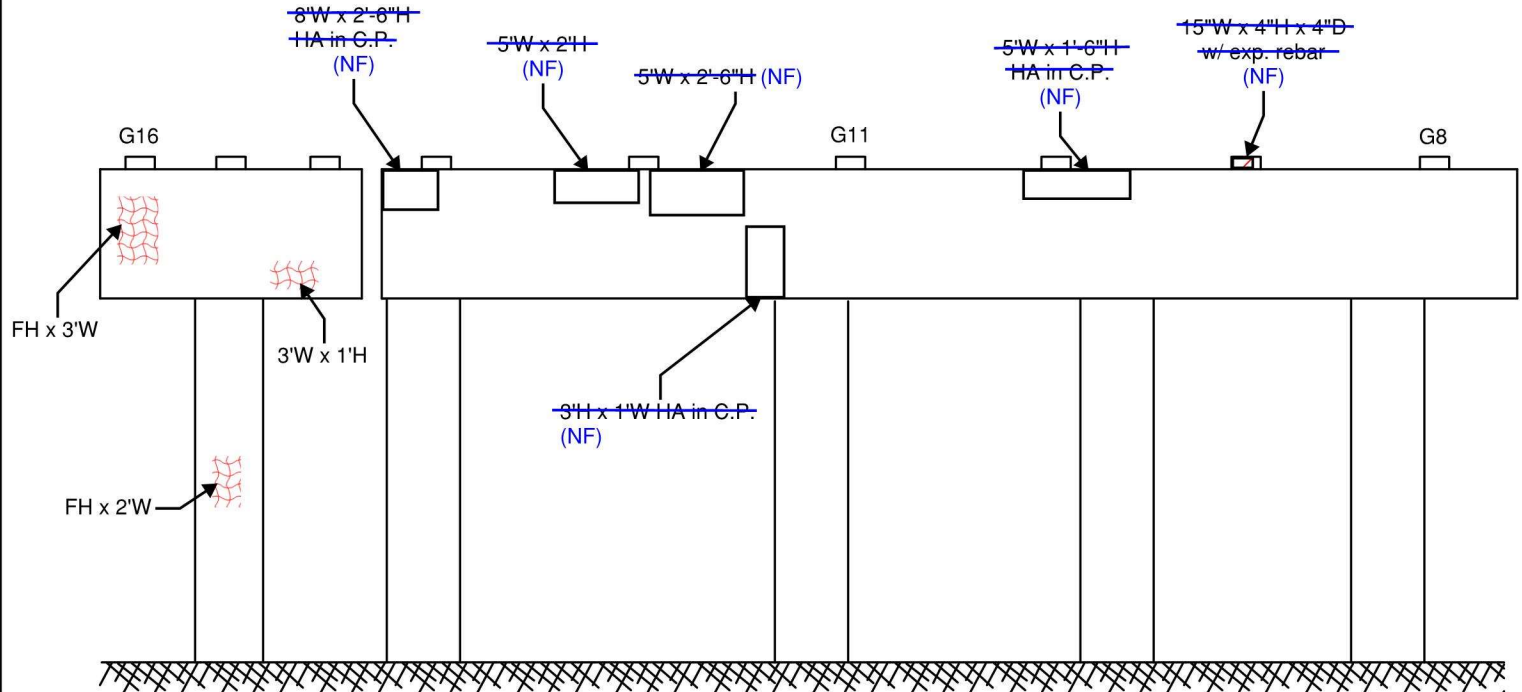
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: VLS, SP

DATE: 9/24/2017

BRIDGE NO.: 00032



General Notes:

- See Pier 15-North Elevation (West Half) general notes.
- Active leakage noted at random locations.

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP CONCRETE PATCH
- NF NOT FOUND

Pier 15 - North Elevation (East Half)

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

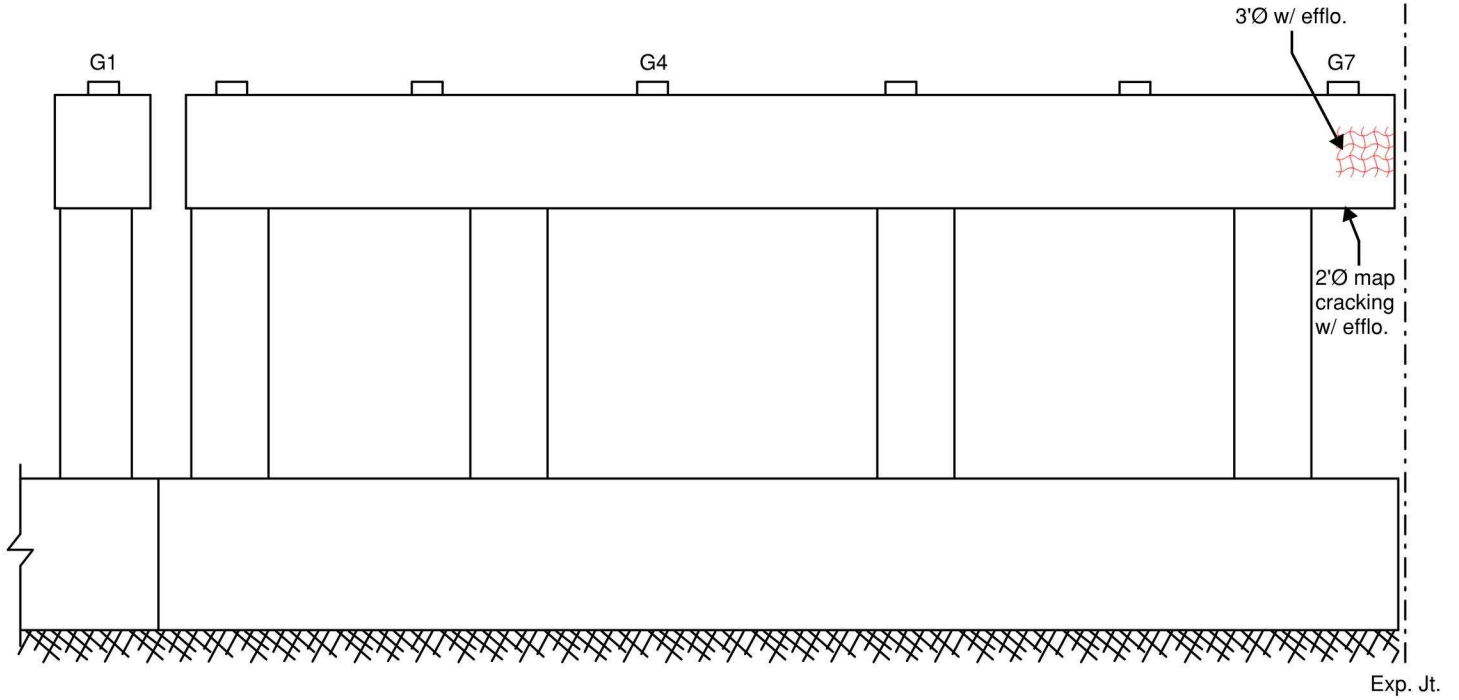
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, CG

DATE: 10/20/2017

BRIDGE NO.: 00032



General Notes:

- See Pier 15-North Elevation (West Half) general notes

- LEGEND:**
- HOLLOW AREA
 - SHALLOW REBAR
 - SPALL AREA
 - SPALL AREA WITH EXPOSED REBAR
 - MAPCRACKS
 - HAIRLINE CRACKS
 - HONEYCOMB AREA
 - SCALE AREA
 - EFFLORESCENCE PRESENT

NO CHANGE

Pier 16 - South Elevation (West Half)

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

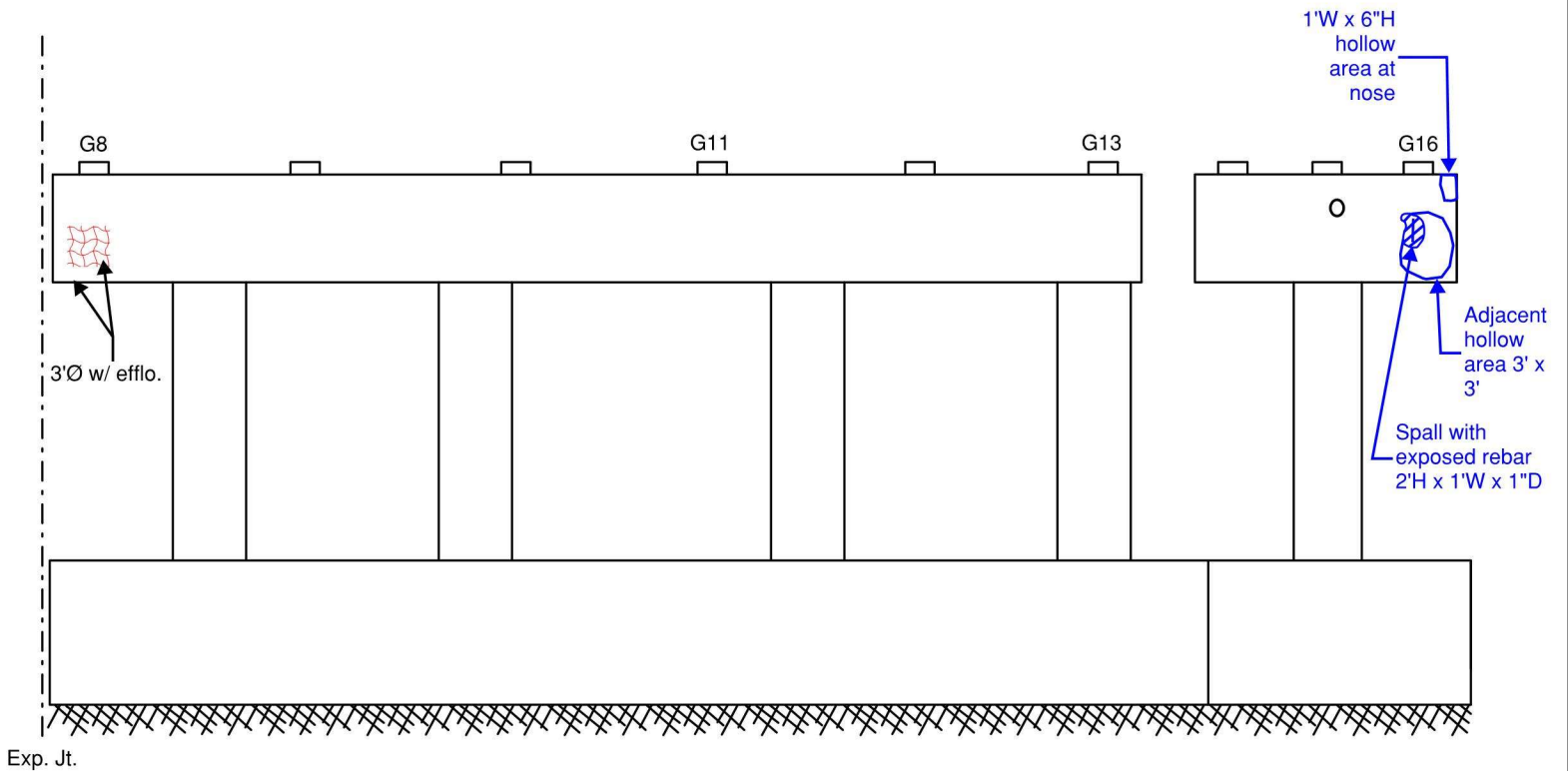
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JJF, CG

DATE: 10/20/2017

BRIDGE NO.: 00032



General Notes:

- 30LF concrete patches on cap and all columns except columns 1 and 10
- See Pier 15-North Elevation (West Half) general notes

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT

Pier 16 - South Elevation (East Half)

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

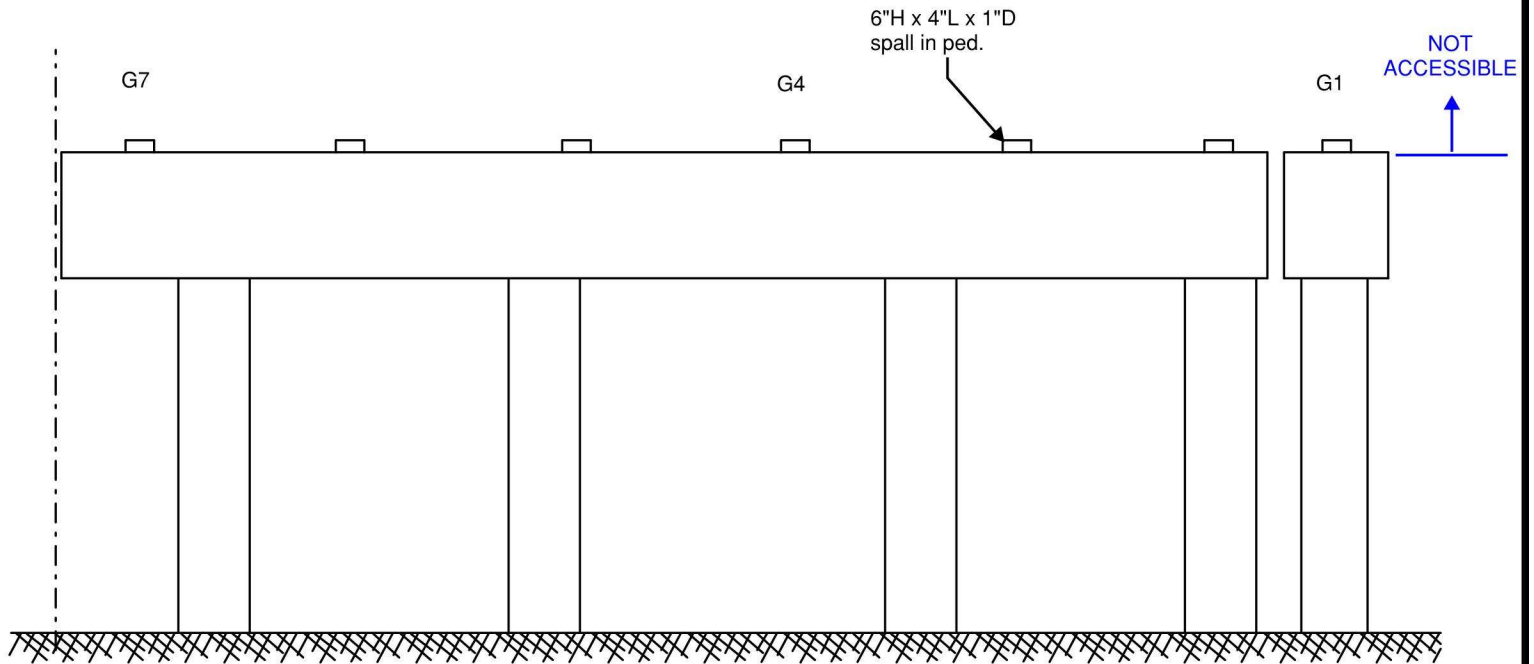
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JM, TE (TSC)

DATE: 12/19/2016

BRIDGE NO.: 00032



Pier 16 - North Elevation
(West Half)

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 8 LF of concrete patches on the pier caps.
- ~~- The south elevation of pier 16 was not inspected this inspection, due to construction on Myrtle Avenue. This will be inspected during a special inspection in 2017.~~

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Sketches

Inspection type: Fracture Critical, Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

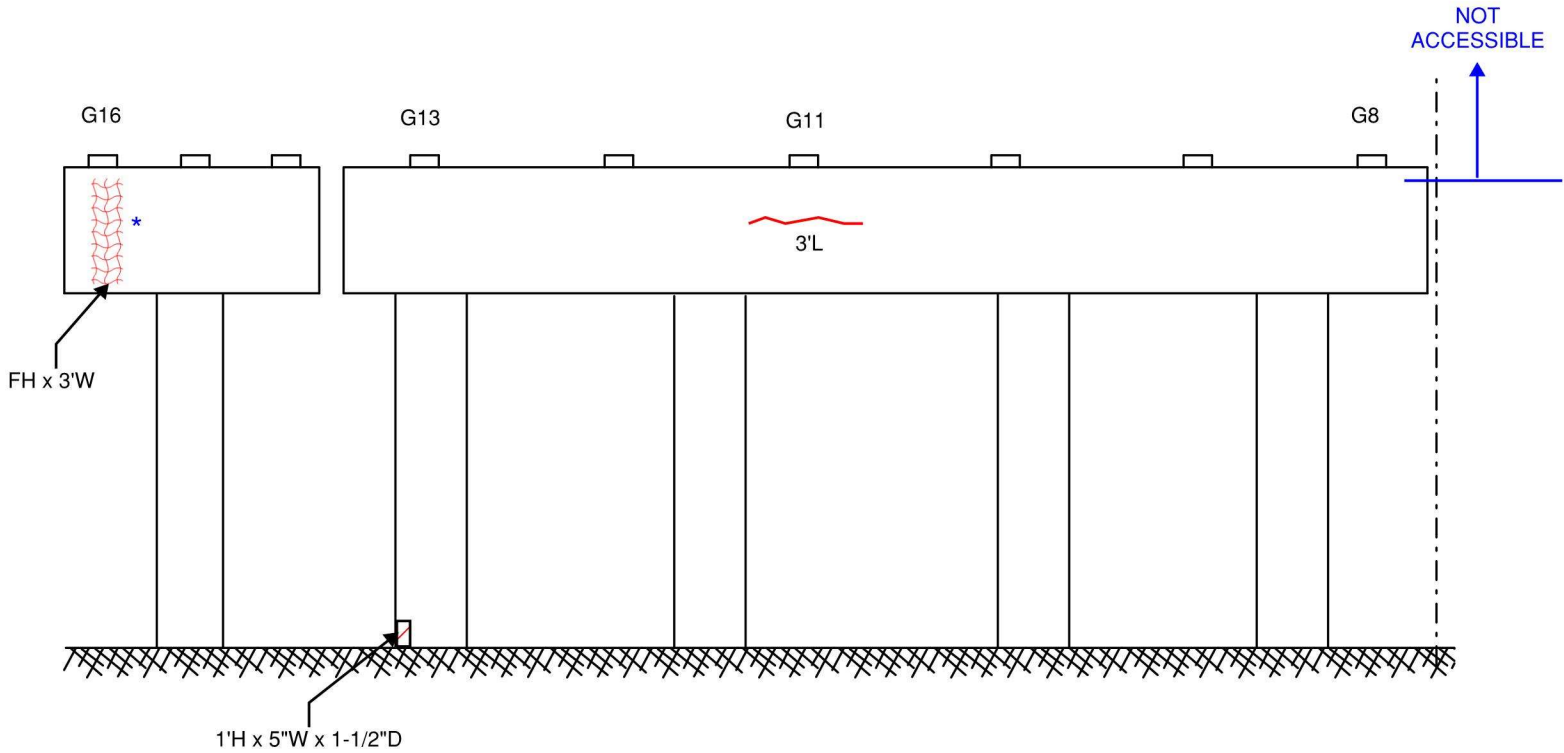
Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

CREW: JM, TE (TSC)

DATE: 12/19/2016

BRIDGE NO.: 00032



**Pier 16 - North Elevation
(East Half)**

General Notes:

- See "Pier 0 - South Elevation" general notes.
- There is a total of 24 LF of concrete patches on the pier caps.
- ~~- The south elevation of pier 16 was not inspected this inspection, due to construction on Myrtle Avenue. This will be inspected during a special inspection in 2017.~~

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- HAIRLINE CRACKS
- HONEYCOMB AREA
- SCALE AREA
- EFFLORESCENCE PRESENT
- CP Concrete patch

| | | | | | |
|----------|----------------|----------------------------|----------|-------|-------|
| REVISION | DATE: 10/15/18 | CREW: JK, SD, NC, KG (ADA) | REVISION | DATE: | CREW: |
| REVISION | DATE: | CREW: | REVISION | DATE: | CREW: |

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 1

Photo Taken: 10/24/2018

Bridge identification number.



Photo Number: 2

Photo Taken: 11/02/2018

East elevation (north of railroad tracks, along east access road).

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 3

Photo Taken: 11/02/2018

East elevation (north of railroad tracks at Myrtle Ave.)



Photo Number: 4

Photo Taken: 11/01/2018

East elevation (south of railroad tracks above South State St.)

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS

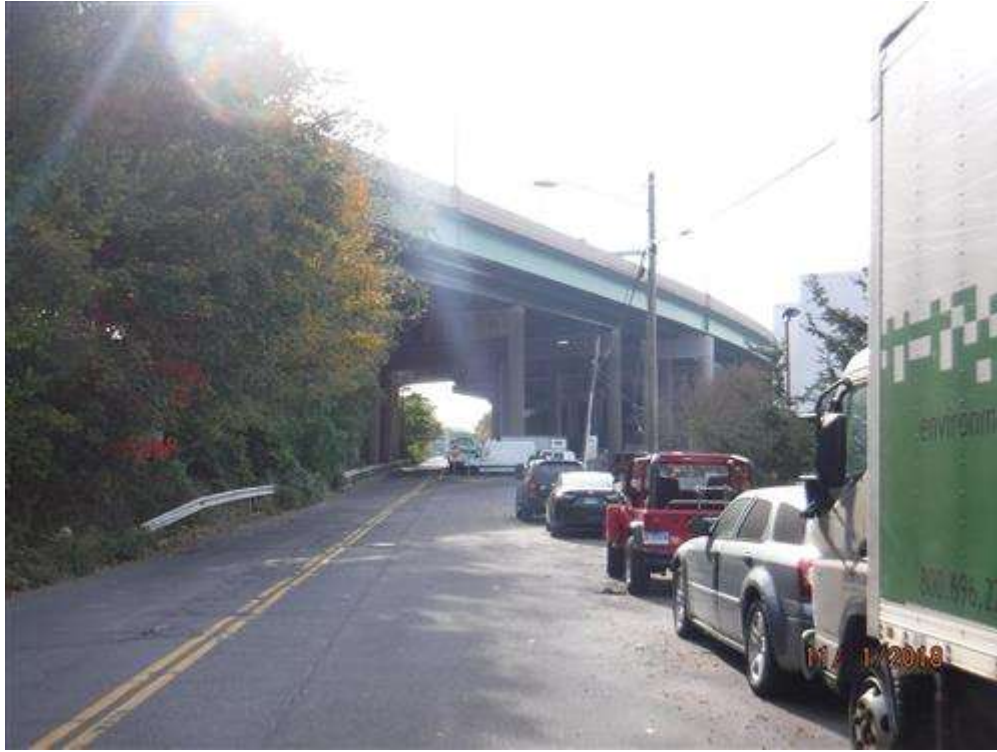


Photo Number: 5

Photo Taken: 11/01/2018

West elevation (south of railroad tracks above South State St.)



Photo Number: 6

Photo Taken: 11/02/2018

West elevation (north of railroad tracks).

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 7

Photo Taken: 10/15/2018

Bridge from south approach on the southbound side.



Photo Number: 8

Photo Taken: 10/15/2018

Bridge from north approach on the southbound side.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 9

Photo Taken: 10/15/2018

South approach from bridge on the southbound side.



Photo Number: 10

Photo Taken: 10/15/2018

North approach from bridge on the southbound side.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 11

Photo Taken: 10/23/2018

Underside of deck and superstructure in span 2. Note the light rust on the girders.



Photo Number: 12

Photo Taken: 11/02/2018

Underside of deck and superstructure in span 16, looking northwest.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 13

Photo Taken: 10/26/2018

Underside of deck at mid-span of span 16 with spalls and concrete patches.



Photo Number: 14

Photo Taken: 11/01/2018

Underside of deck in span 11, bay 6, panel 2 exhibits a hollow area and a spall with exposed and rusted rebar. Note the section loss to the rebar.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 15

Photo Taken: 10/31/2018

Underside of deck in span 12, bay 6 near pier 12 exhibits a spall with exposed rebar. Note the short weep pipe with the potential to drain onto bridge.



Photo Number: 16

Photo Taken: 10/15/2018

East sidewalk/curb in span 7 exhibits a spall.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 17

Photo Taken: 10/15/2018

East parapet in span 1 with missing bottom rails.



Photo Number: 18

Photo Taken: 10/15/2018

Clogged scupper in span 14 has been cleared since the previous inspection.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 19

Photo Taken: 10/15/2018

Clogged drain at pier 1 in span 2 along the east parapet and spall in concrete header.



Photo Number: 20

Photo Taken: 10/31/2018

Short weeps in span 15, bay 7. Note the leakage from the median joint onto the superstructure and substructure.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 21

Photo Taken: 10/15/2018

Light standard with missing handhole covers at the southeast corner of the bridge.



Photo Number: 22

Photo Taken: 10/15/2018

Pier 16 deck joint with missing joint material on the northbound side.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 23

Photo Taken: 10/29/2018

Girder 1 bearing at pier 7 in span 8 with a gap below the masonry plate.



Photo Number: 24

Photo Taken: 10/24/2018

Girder 8 pedestal at pier 6 exhibits a spall, undermining the bearing. Note the gap between bearing plates.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 25

Photo Taken: 10/31/2018

Girder 11 at pier 15 in span 15 with a gap under the bearing.



Photo Number: 26

Photo Taken: 10/24/2018

Girder 7 east elevation at pier 3 in span 4 with section loss to web and bottom flange.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 27

Photo Taken: 10/25/2018

Girder 1, west elevation, at pier 6 in span 6 exhibits section loss to the web.



Photo Number: 28

Photo Taken: 10/26/2018

Tear in the end diaphragm web in span 8 at the intersection of piers 7 and 8.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 29

Photo Taken: 10/26/2018

Span 16, bay 2 at pier 15 end diaphragm with areas of heavy rust and perforations in the web and bottom flange.



Photo Number: 30

Photo Taken: 10/15/2018

East elevation of girder 1 in span 7 exhibits impact damage to the vertical stiffeners. Note the peeling paint and delaminated rust.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 31

Photo Taken: 10/15/2018

Girder 1 at the north end of span 7 with a broken access door.



Photo Number: 32

Photo Taken: 10/31/2018

Diaphragm 1 connection to girder 2 in span 14, bay 2 exhibits a crack in the weld.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 33

Photo Taken: 10/31/2018

Span 15, end diaphragm in bay 11 with a crack in the web.



Photo Number: 34

Photo Taken: 10/31/2018

Span 15, end diaphragm in bay 11 with a crack in the vertical weld at the connection to the bearing stiffener.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 35

Photo Taken: 10/31/2018

Span 15, end diaphragm in bay 10 over pier 14, adjacent to girder 11. The bearing stiffener is cracked through the web and bottom flange.



Photo Number: 36

Photo Taken: 10/31/2018

Span 15, end diaphragm in bay 5 over pier 15 with a crack in the vertical weld.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 37

Photo Taken: 10/22/2018

Abutment 1.



Photo Number: 38

Photo Taken: 11/02/2018

Abutment 2.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 39

Photo Taken: 10/22/2018

West end of abutment 1A. The abutment could not be inspected due to the presence of homeless people.



Photo Number: 40

Photo Taken: 11/02/2018

Abutment 2, girder 12 pedestal with a spall with exposed reinforcement. Also, note the heavy sand/ debris accumulation on seat.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 41

Photo Taken: 10/22/2018

Exposed footing at west end of abutment 1 with a corner spall.



Photo Number: 42

Photo Taken: 11/14/2018

Pier 16 south elevation.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 43

Photo Taken: 10/24/2018

South elevation of pier 3 over South State Street. The previously noted spalls and hollow areas have been repaired since the previous inspection.



Photo Number: 44

Photo Taken: 11/14/2018

South face of the pier 3 cap. The previously noted spalls and hollow areas have been repaired since the previous inspection.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 45

Photo Taken: 10/23/2018

South face of pier 3 cap between bays 10 and 11. The previously noted spalls with exposed rebar have been repaired since the previous inspection.



Photo Number: 46

Photo Taken: 10/24/2018

Pier 3 column under girder 13 with a void at the top, northeast corner.

Form: Asset Photos

Inspection type: Fracture Critical,Routine

Inspection Date: 10/15/2018

Inspected by: A. DiCesare Associates

Bridge No: 00032

Town: STAMFORD

Carried: I-95 & I-95 RAMPS

Crossed: MNRR & LOCAL ROADS

Inventory Route: NHS



Photo Number: 47

Photo Taken: 10/29/2018

North elevation of pier 7 to pier 8 connection exhibits hollow areas and spalls around the column and cap.



Photo Number: 48

Photo Taken: 10/24/2018

Joint material is hanging at pier 3 in bay 4. Previously noted debris has been removed since the previous inspection.