

BRIDGE NO.04805

78600 - VOLUNTOWN
FORGE HILL ROAD
over
PACHAUG RIVER

Routine Inspection

8/05/2020

Inspected by: Team 4



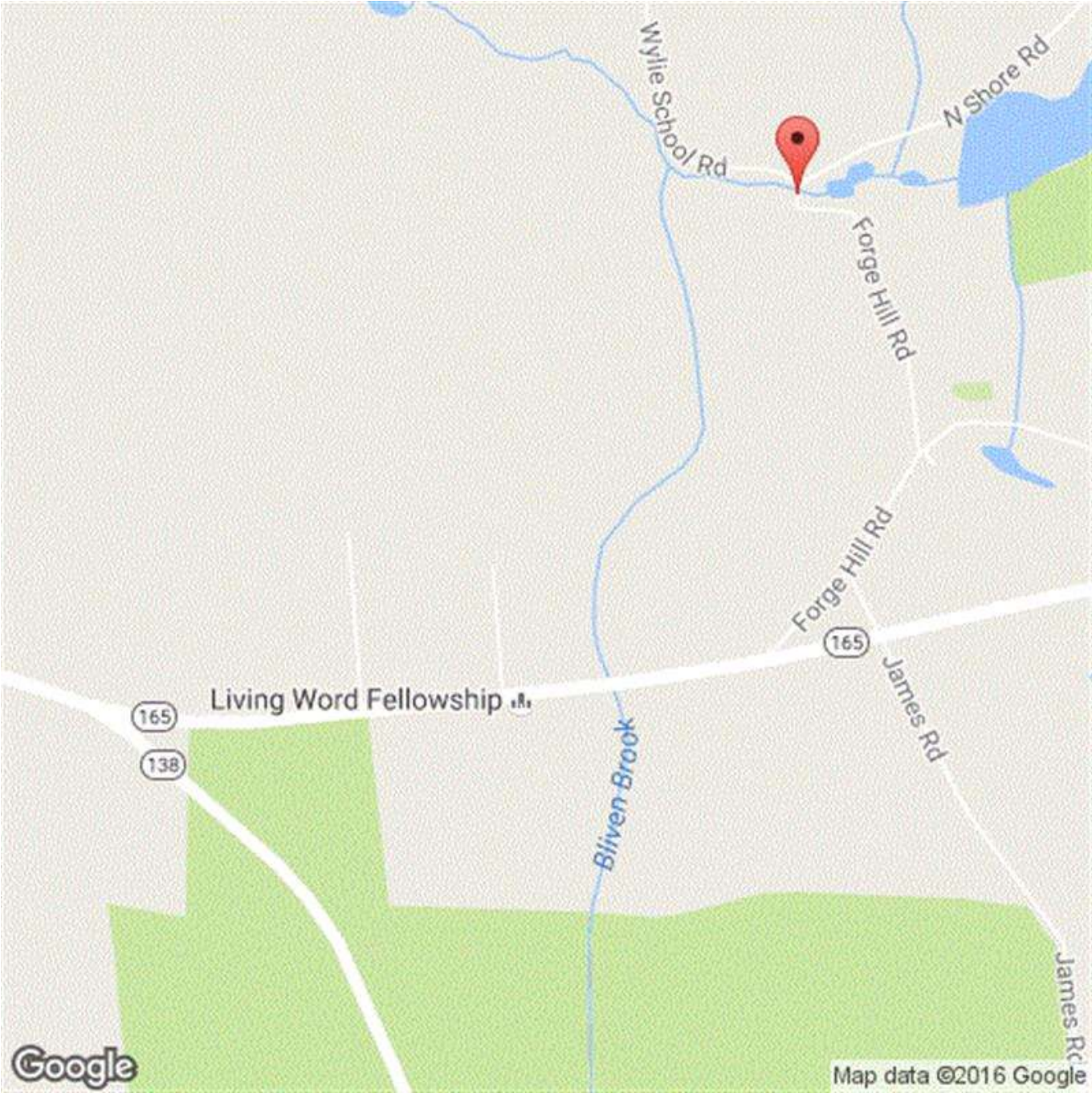
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Form: Location
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Location Map # 1

In-Depth Components

Bridge: 04805

Town: 78600 - VOLUNTOWN



Carried: FORGE HILL ROAD

Crossed: PACHAUG RIVER

In-Depth - 1

Component: Concrete Superstructure

Comments: Reinforced concrete Slab.

Access
Requirements: Waders.

Last Inspected: 08/16/2020 Frequency: 24 Inspection Due Date: 08/16/2022

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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"/>	<input type="text"/>	<input type="text"/>
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.

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(33) Bridge Median

Deck Area sq. ft.

(34) Skew Angle deg.

(35) Structure Flared

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

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

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

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

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

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

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

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

CONDITION

(58) Deck

(59) Superstructure

(60) Substructure

(61) Channel & Channel Protections

(62) Culverts

(36) Traffic Safety Features

A) Bridge Railings

B) Transitions

C) Approach Guardrail

D) Approach Guardrail Ends

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.

AGE AND SERVICE

Year Built (106) Year Reconstructed

(42) Type of Service

A) On

B) Under

(28) Number of Lanes

A) On B) Under

(29) Average Daily Traffic

Is Above Half ADT?

(109) Percent Truck %

(30) Years of ADT

(19) Bypass, Detour Length Miles

APPRAISALS

(67) Structural Evaluation

(68) Deck Geometry

(69) Underclearances, Vert. & Horiz.

(71) Waterway Adequacy

(72) Approach Roadway Alignment

(113) Scour Critical

COMMENTS

CLASSIFICATION

(112) NBIS Bridge Length

(104) Highway System

(26) Functional Class

(100) Defense Highway

(101) Parallel Structure

(102) Direction of Traffic

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(103) Temporary Structure
(110) Designated National Network
(20) Toll
(21) Maintain
(22) Owner
Report Class
(37) Historical Significance

POSTED SIGNS

Other Posted Sign 1
Other Posted Sign 2

	Actual	Recomended	
Posted Load Single Unit Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load Semi-Trailer Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load 4 Axle Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load 3S2 Truck	<input type="text"/>	<input type="text"/>	tons
All Vehicles	<input type="text"/>	<input type="text"/>	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
Fence Present
Fence Type
Fence Height
Fence Material
Fence Top Type
Barrel Ladders
Stand Pipes
Catwalks
Moveable Inspection System
Haunches Present over Roadway
Utilities

PROPOSED IMPROVEMENTS

(75A) Type of Work Proposed
(75B) Work Done By
(76) Length of Structure Improvement ft.
(94) Bridge Improvement Cost \$
(95) Roadway Improvement Cost \$
(96) Total Project Cost \$
(97) Year of Improvement Estimate
(114) Future ADT
(115) Year of Future ADT
DOT Bridge Program List No
Project No
Advertised Date

LOAD RATING & POSTING

(31) Design Load
(63) Operating Rating Type
(64) Operating Rating
(65) Inventory Rating Type
(66) Inventory Rating
Evaluation Code
Year of Evaluation
(70) Bridge Posting
(41) Structure Status

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INSPECTOR'S SIGNATURES:

1) _____ Date: 08/06/2020


Mike Holdridge

P.E. SIGNATURE: _____

Date: _____

2) _____ Date: 08/06/2020


Zachary LaLima

P.E. # _____

Reviewed By: _____

Date: 08/06/2020

3) _____ Date: _____


William Freeman, Jr.

4) _____ Date: _____

Form: BRI-18, Rev. 1/14
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FIELD INSPECTION REPORT

Location: 0.6 MI NORTH OF ROUTE 165
Main Material: 1 - Concrete
Main Design: 01 - Slab

Year Built: 1920
Year Rebuilt: 0000

Snooper Required: ☐
Snooper Used: ☐

Inspectors:

Lead Inspector:	Michael Holdridge
Inspector:	Task:
Freeman Jr., William	BSE - TE3
Holdridge, Michael	BSE - Inspector
LaLima, Zachary	BSE - Inspector

Visits:

Visit Date:	Temp:	Start Time:	End Time:
08/05/2020	80	08:35 AM	10:15 AM

58. DECK:

Reinforced concrete slab (Element # 38)

Overall Rating: 5

Log direction south to north.

Rating

Overlay: 4

Bituminous concrete wearing surface:

-Transverse, longitudinal and random cracks open 1/2 inch.

-Delaminated along both curb lines full length up to 8 feet wide.(see sketch)

-Vegetation growth along curblines.

-Full width transverse cracks at deck ends open up to 1 in. with adjacent bituminous breaking up and patched areas.

South deck end:

-Large bituminous patched areas with heaved and settled areas.

-Large surface spall 26 in. x 13 in. x 2 1/2 in with exposed deck.

North deck end:

-± 20 SF patched area (settled up to 1/2 in.)with adjacent bituminous breaking up.

See attached sketch.

Deck - Str. Condition: 5

-Top of Reinforced concrete slab hidden by above overlay.

-Deck is integral with Superstructure .

-Large surface spall with exposed concrete at the south deck end.(top side)

-Large areas of delaminated bituminous noted in Overlay.

-Longitudinal cracking with efflorescence open up to 1/8 inch noted below.

-See item 59 (girders) for underside.

-± 29% total deck deterioration.

-See attached sketch.

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Curbs: 6 Concrete:
-Isolated areas of severe scale areas up to 1 in. deep.

-Sand and debris covered.

-Vegetation growth along curblines.

-Southbound curb reveal is 4½ inches taken midspan.

-Northbound curb reveal is 5 inches taken midspan.

Median: N
Sidewalks: N

Parapet: 7 Concrete railbase:
-Areas of light scale.

-Random hairline cracks.

Railing: 7 Angle iron rail and posts:
-Areas of light rust throughout.

-Areas of peeling paint.

Paint: N

Fence: N

Drains: N

Lighting Standard: N

Overall Utility Condition Rating N - Not Applicable

Utility Type/Size

N | No Utilities present

Construction Joints: N

Expansion Joint: N No formal joints at deck ends.

Haunches Present over travelway?

APPROACH CONDITION:

Overall Rating: 5

Rating

Approach Slab: N

Relief Joints: N

Approach Guide Rail: 5 Metal beam rail on steel posts:
-Minor scrapes and dents.

Southbound trailing end:
-(1) Section bent MBR .
-(1) Bent post.

Approach Pavement: 5 Bituminous concrete approach wearing surface:
Transverse, longitudinal and random cracks open up to 1 inch.

-Bituminous patches with adjacent bituminous breaking up.

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	-Raveling.
	-Settlement on the north approach up to $\pm \frac{3}{4}$ inch.
Approach Embankment: 8	

Traffic Safety Features

Bridge Railings: 0	
Transitions: 0	
Approach Guardrails: 0	
Approach Guardrail Ends: 0	

59. SUPERSTRUCTURE:

Reinforced concrete slab (Element 38)

Overall Rating: 5

Rating

Bearing Devices: N	
Stringers: N	
Girders: 5	<p>Reinforced concrete slab:</p> <p>-Longitudinal, diagonal and map cracks cracks open hairline to 1/16 inch with and without efflorescence.</p> <p>-Stalactites with active leakage along both deck edges (full length).</p> <p>-Inlet side deck edge (vertical face) at abutment #1, hollow area 24 in. long x 6 in. high. Also, horizontal and diagonal hairline cracks with efflorescence (full length).</p> <p>-large surface spall (26 in x 16 in. x 2½ in. deep) with exposed rebar that have heavy laminar rust with 50% section loss near the centerline of deck adjacent to abutment #1,</p> <p>-Patched area (30 in. X 50 in.) near the centerline of deck adjacent to abutment #2, patch is hollow and has cracks open up to 1/8 in.</p> <p>-Outlet side edge of deck underside, hollow area (full length x up to 24 in. wide). Hollow area extends up vertical face (up to 14 in. high).</p> <p>-Outside face of slab has horizontal and diagonal cracks full length with efflorescence open up to .030 in.</p> <p>-See attached sketch.</p>
Floor Beams: N	
Trusses - General: N	
Trusses - Portals: N	
Trusses - Bracing: N	
Paint: N	
Rust: N	
Machinery Movable Span: N	
Rivets & Bolts: N	
Welds - Cracks: N	
Timber Decay: N	
Concrete Cracking: 5	See above items.
Collision Damage: 8	

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Member Alignment:	8	
Deflection Under Load:	N	
Vibration Under Load:	N	
Stand Pipes:	N	
Catwalks:		
Movable Inspection System:		
Barrel Ladders:	N	
Are Barrel Ladders OSHA Compliant?		NA

60. SUBSTRUCTURE:

Reinforced concrete abutments and wingwalls (Element # 215)

Overall Rating: 5

Rating

Abutments - Stem:	5	Reinforced concrete: -Horizontal, vertical and diagonal cracks open from hairline to .070 inch with and without efflorescence. -Gap between bottom of deck and top of abutments, up to 3/8 in. in random areas (appears to be an as built condition). -Light to medium scale at and below the waterline up to 24 inches high. -Large hollow areas. -See attached sketch.
Abutments - Backwall:	N	
Abutments - Footings:	N	Not visible.
Abutments - Settlement:	8	
Abutments - Wingwalls:	5	Reinforced concrete: -Light to medium scale at and below the waterline up to 24 inches high. -Map hairline cracks open up to .050 inch with and without efflorescence on all wingwalls. -Overburden (earth build up) on top of all wingwalls. Wingwall 1B: -Hollow area, 8 square feet. -Severe scale area and heavy efflorescence at the top, 4 ft. long x 4 in. deep x full width. Wingwall 2A: -Free end has an area of severe scale / spall 2 square feet X 2 in. deep. -Hollow area at top, 12 square feet. Wingwall 2B: -Hollow area adjacent to abutment, 20 square feet.
Piers/Bents - Caps:	N	
Piers/Bents - Pile Bent:	N	
Piers/Bents - Columns:	N	
Piers/Bents - Footings:	N	
Piers/Bents - Settlement:	N	
Erosion - Scour:	8	
Concrete Crack - Spall:	5	See above items.

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Steel Corrosion: N
Paint: N
Timber Decay: N
Collision Damage: 8
Debris: N

61. CHANNEL AND CHANNEL PROTECTION:

Overall Rating: 6

Rating

Channel - Scour: 8
Embankment - Erosion: 7 -Minor embankment undercutting upstream and downstream.
Debris: 6 -Encroachment at upstream end along wingwall 1B that slightly impacts flow.
Vegetation: 7 -Moderate to heavy vegetation upstream and downstream.
-Trees and limbs overhang channel.
Channel Change: 6 -Encroachment at upstream end along wingwall 1B that slightly impacts flow.
Fender - System: N
Spur Dikes and Jetties: N
Rip Rap: N

62. CULVERTS AND RETAINING WALLS:

Overall Rating: N

Rating

Barrel: N
Concrete: N
Steel: N
Timber: N
Headwall: N
Cutoff Wall: N
Debris: N
Retaining Wall System: N
Footings: N

LOAD POSTING:

Rating

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

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VERTICAL CLEARANCE POSTING

Min. Vert Under Clearance:	<input type="text"/>	Ft	<input type="text"/>	In	<input type="text"/>
Posted Clearance Under Bridge:	<input type="text"/>	Ft	<input type="text"/>	In	<input type="text"/>
Posted Clearance On Bridge:	<input type="text"/>	Ft	<input type="text"/>	In	<input type="text"/>
Advanced Warning:	False				
Warning At Bridge:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Legibility:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Visibility:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

NOTES / COMMENTS:

Character of Traffic: Light volume, mixed weights.
Inventory / log direction south to north.

Additional Notes:

Bridge ID in Place

Additional Comments:

Town Letter Submitted - borderline poor bridge due to slab deterioration
No Pending Project

National Bridge Elements**Inspection type:** Routine**Inspection Date:** 8/05/2020**Inspected by:** Team 4**:Bridge No 04805****Town:** VOLUNTOWN**Carried:** FORGE HILL ROAD**Crossed:** PACHAUG RIVER**Inventory Route:** Non-NHS

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	Mod.	517	sq. ft.	250	77	190	0
1080 - Delamination/Spall/Patched Area		74		0	74	0	0
1090 - Exposed Rebar		3		0	3	0	0
1120 - Efflorescence/Rust Staining		110		0	0	110	0
1130 - Cracking (RC and Other)		80		0	0	80	0
510 - Wearing Surfaces		444	sq. ft.	32	350	62	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		352		0	350	2	0
3220 - Crack (Wearing Surface)		60		0	0	60	0
215 - Reinforced Concrete Abutment	Mod.	47	ft.	0	0	47	0
1080 - Delamination/Spall/Patched Area		10		0	0	10	0
1130 - Cracking (RC and Other)		37		0	0	37	0
330 - Metal Bridge Railing	Mod.	44	ft.	0	44	0	0
1000 - Corrosion		44		0	44	0	0
515 - Steel Protective Coating		64	sq. ft.	20	44	0	0

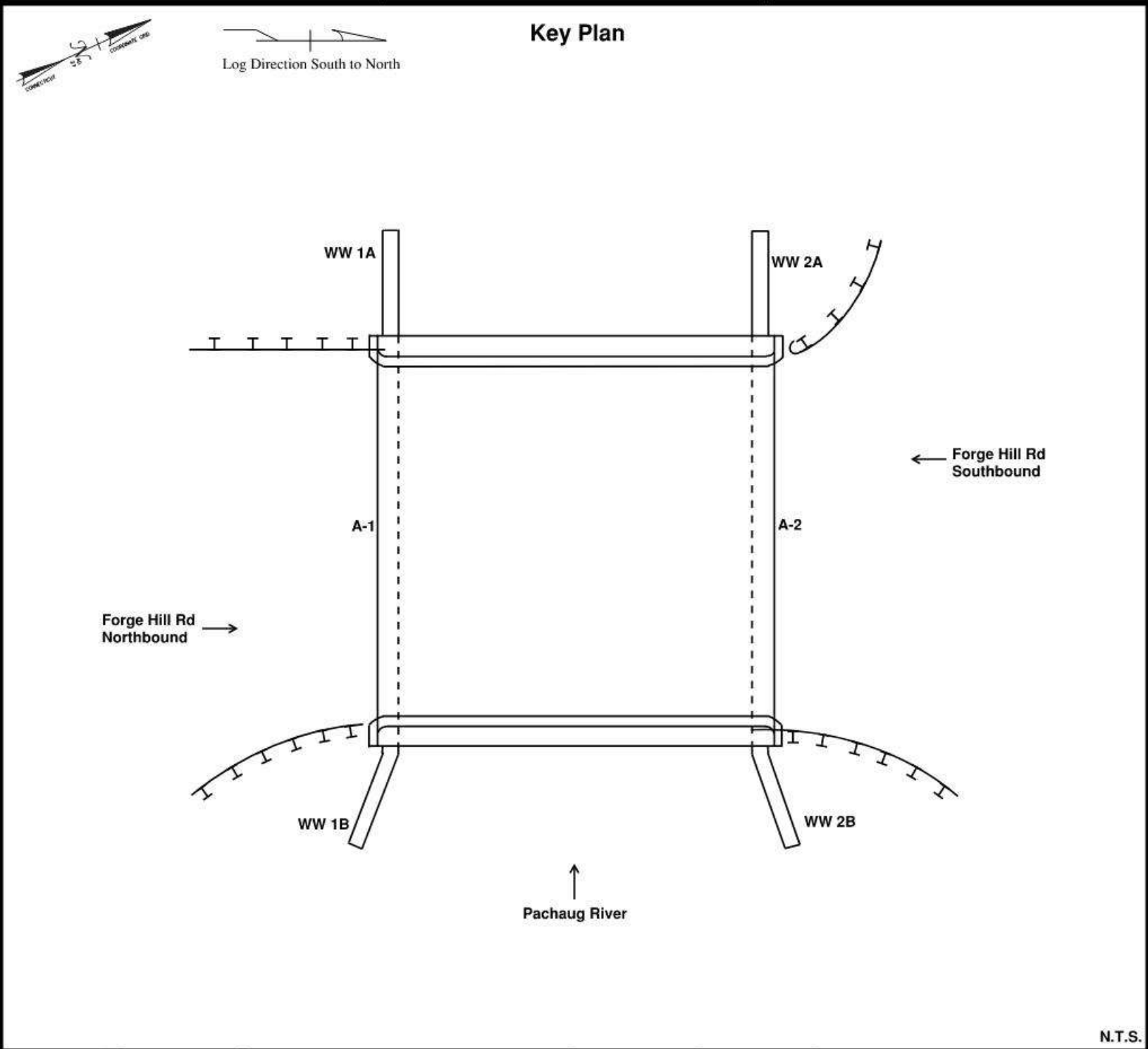
Sketches

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CREW:	Team 4	DATE:	08/01/2018	BRIDGE NO.:	04805
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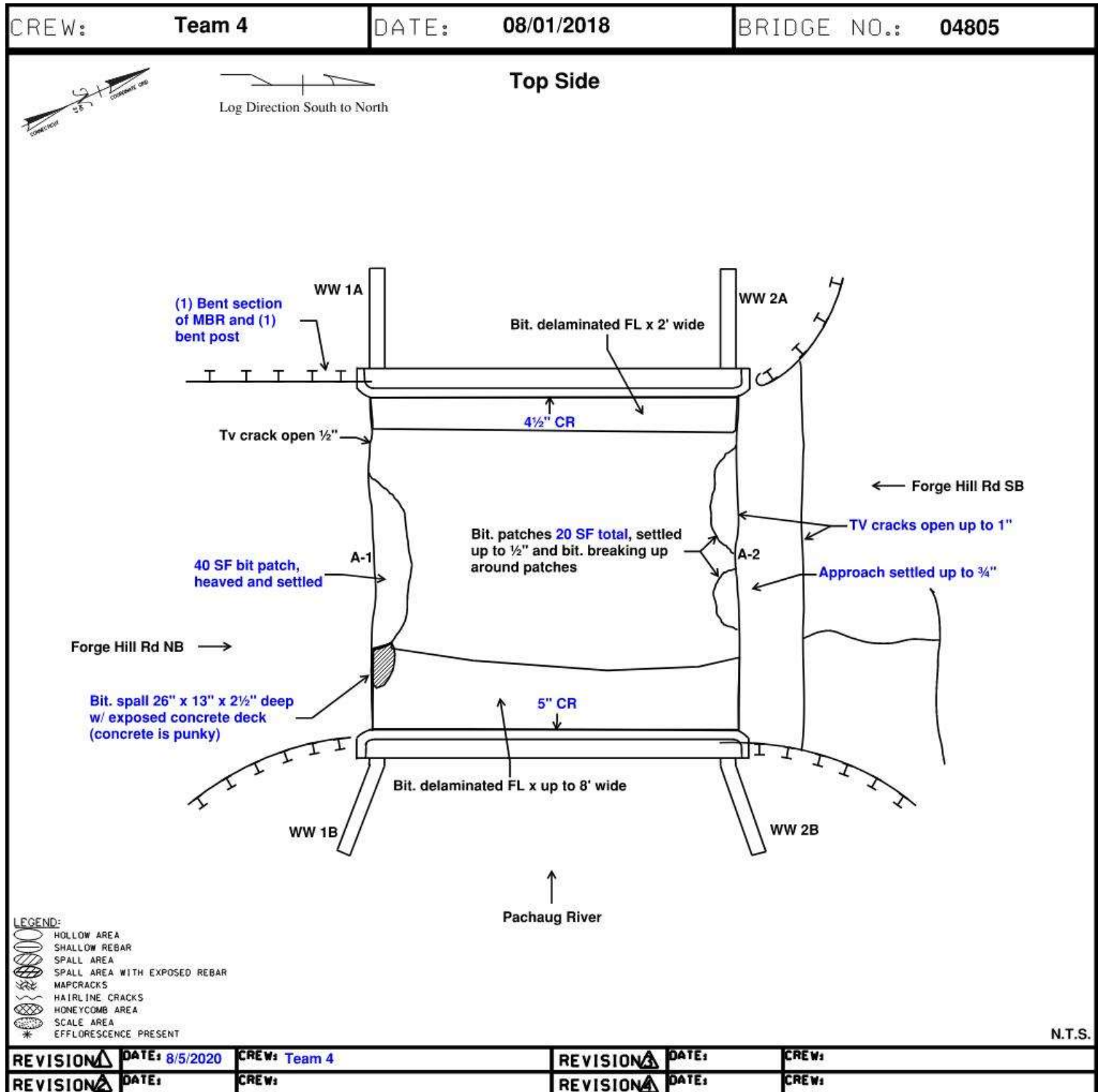
REVISION	DATE	CREW	REVISION	DATE	CREW
REVISION	DATE	CREW	REVISION	DATE	CREW

Sketches

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Deck Underside

LEGEND:

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

N.T.S.

REVISION	DATE: 8/5/2020	CREW: Team 4	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

Sketches

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Abutments

Abutment #1

Abutment #2

LEGEND:

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

N.T.S.

REVISION	DATE: 8/5/2020	CREW: Team 4	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

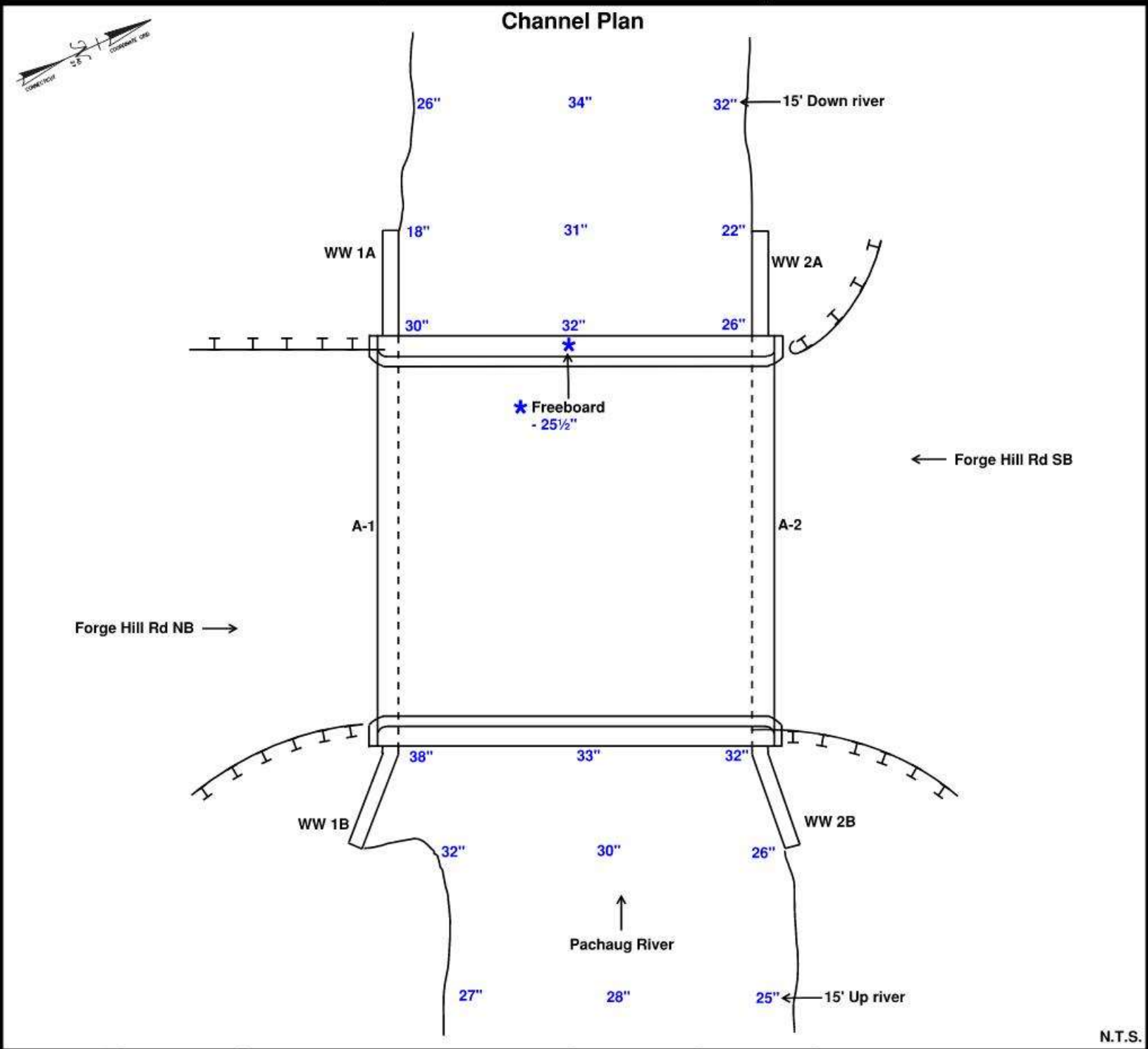
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N.T.S.

REVISION	DATE	CREW	REVISION	DATE	CREW
REVISION	DATE	CREW	REVISION	DATE	CREW

Form: Asset Photos
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Photo Number: 1

Bridge ID.

Photo Taken: 08/05/2020



Photo Number: 2

View southbound.

Photo Taken: 08/05/2020

Form: Asset Photos
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Photo Number: 3

Photo Taken: 08/05/2020

Southbound leading end approach rail.



Photo Number: 4

Photo Taken: 08/05/2020

Southbound railbase and rail.

Form: Asset Photos
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Photo Number: 5

Photo Taken: 08/05/2020

Southbound trailing end approach rail.



Photo Number: 6

Photo Taken: 08/05/2020

View northbound,.

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Photo Number: 7

Photo Taken: 08/05/2020

Northbound leading end approach rail.



Photo Number: 8

Photo Taken: 08/05/2020

Southbound railbase and rail.

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Photo Number: 9

Photo Taken: 08/05/2020

Southbound trailing end approach rail.



Photo Number: 10

Photo Taken: 08/05/2020

South deck end.

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Photo Number: 11

Photo Taken: 08/05/2020

Overlay.



Photo Number: 12

Photo Taken: 08/05/2020

North deck end.

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Photo Number: 13

Photo Taken: 08/05/2020

View upstream.



Photo Number: 14

Photo Taken: 08/05/2020

Inlet elevation.

Form: Asset Photos
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Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 15

Photo Taken: 08/05/2020

Wingwall 1B.



Photo Number: 16

Photo Taken: 08/05/2020

Wingwall 2B.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 17

Photo Taken: 08/05/2020

Inlet end deck edge.



Photo Number: 18

Photo Taken: 08/05/2020

View of cracking on deck underside at the inlet end.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 19

Photo Taken: 08/05/2020

View downstream.



Photo Number: 20

Photo Taken: 08/05/2020

Outlet elevation.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 21

Photo Taken: 08/05/2020

Wingwall 1A.



Photo Number: 22

Photo Taken: 08/05/2020

Wingwall 2A.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 23

Photo Taken: 08/05/2020

View of west deck edge.(outlet side)



Photo Number: 24

Photo Taken: 08/05/2020

View of cracking on deck underside at the outlet end.

Form: Asset Photos

Inspection type: Routine

Inspection Date: 8/05/2020

Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN

Carried: FORGE HILL ROAD

Crossed: PACHAUG RIVER

Inventory Route: Non-NHS



Photo Number: 25

Photo Taken: 08/05/2020

Typical longitudinal cracks with efflorescence at random locations.



Photo Number: 26

Photo Taken: 08/05/2020

Large surface spall with exposed rebar midspan at A-1.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 27

Photo Taken: 08/05/2020

Longitudinal crack open up to 1/8 inch with efflorescence near midspan.



Photo Number: 28

Photo Taken: 08/05/2020

Close up view of longitudinal crack open up to 1/8 inch with efflorescence near midspan.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 29

Photo Taken: 08/05/2020

Large patch midspan near A-2 with hollow areas and longitudinal cracks.



Photo Number: 30

Photo Taken: 08/05/2020

Abutment # 1.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 8/05/2020
Inspected by: Team 4

:Bridge No 04805

Town: VOLUNTOWN
Carried: FORGE HILL ROAD
Crossed: PACHAUG RIVER
Inventory Route: Non-NHS



Photo Number: 31

Photo Taken: 08/05/2020

Typical cracking on abutment #1.



Photo Number: 32

Photo Taken: 08/05/2020

Abutment # 2.