



BRIDGE NO.06842

15910 - COLCHESTER
ROUTE 2 E/B
over
BROOK

Routine Inspection

2/06/2019

Inspected by: Team 5



TABLE OF CONTENTS

<u>Section</u>	<u>Page Number</u>
Location Map	1
Structure Inventory and Appraisal (BRI-19)	2
Inspection Data (BRI-18)	6
National Bridge Elements	11
Sketches	12
Span Rise Corrugated Round Pipe Measurement Worksheet	22
Culvert Worksheet	24
Pictures	25

Form: Location

Inspection type: Routine

Inspection Date: 2/06/2019

Inspected by: Team 5

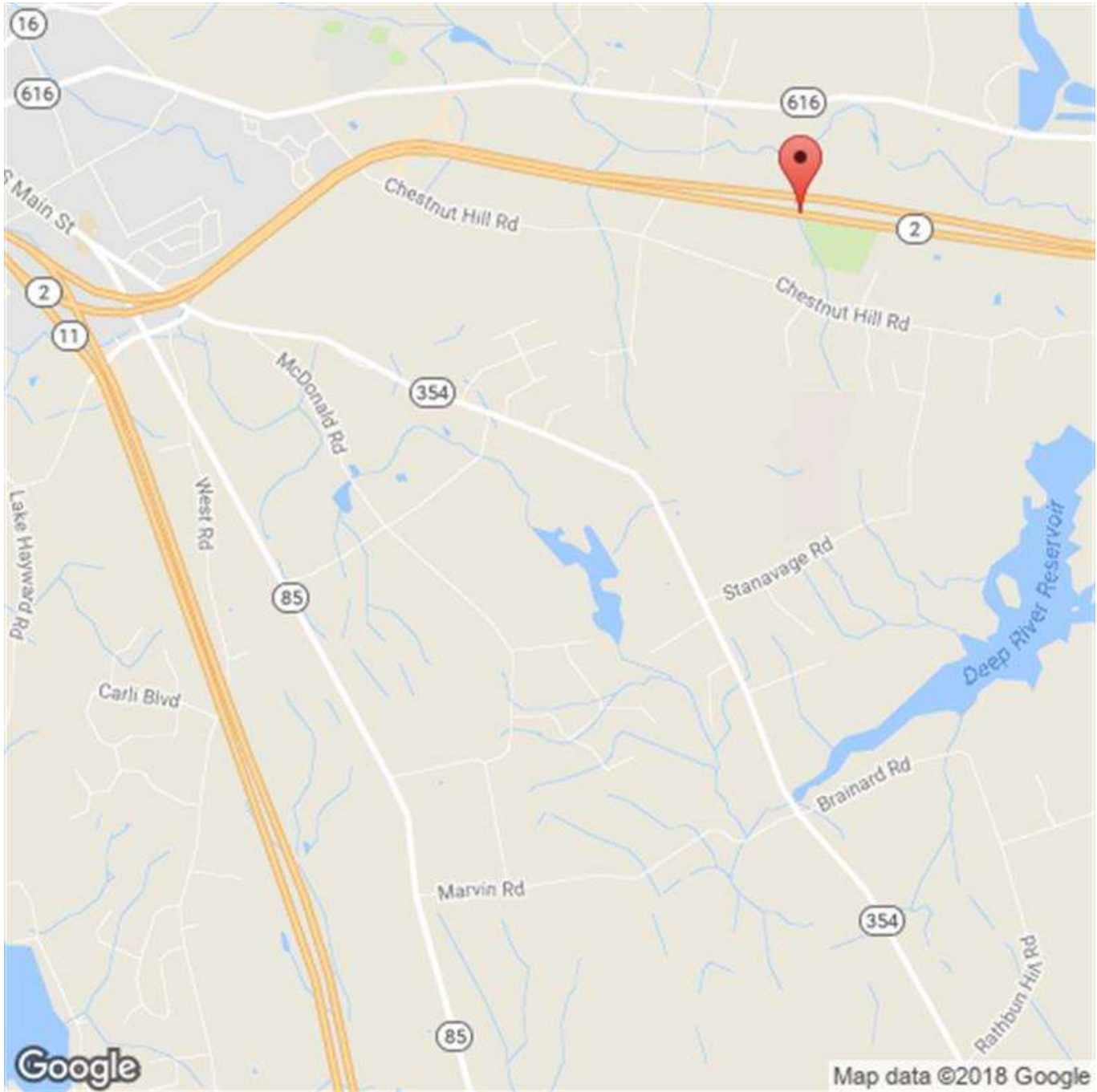
:Bridge No 06842

Town: COLCHESTER

Carried: ROUTE 2 E/B

Crossed: BROOK

Inventory Route: NHS



Location Map # 1

1.4 miles East of Route 2 Exit No. 21 {SR 616
- Norwich Avenue}

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

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.

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

(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

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

(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

Form: BRI-19, Rev. 2/15
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

INSPECTOR'S SIGNATURES:

1)  Date: 02/07/2019

2)  Date: 02/07/2019

3) _____ Date:

4) _____ Date:

P.E. SIGNATURE:


David Pawlikowski, P.E.

Date: 02/14/2019

P.E. #

Reviewed By:


David Pawlikowski, P.E.

Date: 02/14/2019

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

FIELD INSPECTION REPORT

Location:	1.4 MI E OF EXIT 21	Year Built:	1971	Snooper Required:	<input type="checkbox"/>
Main Material:	3 - Steel	Year Rebuilt:		Snooper Used:	<input type="checkbox"/>
Main Design:	19 - Culvert (includes frame				

Inspectors:

Lead Inspector:	James Jones
Inspector:	Task:
Area, 05	BSE - Inspector
Jones, James	BSE - Inspector
Venoutsos, Peter	BSE - Inspector

Visits:

Visit Date:	Temp:	Start Time:	End Time:
02/06/2019	42	12:45 PM	01:30 PM

58. DECK:

Route 2 {Veterans of Foreign Wars Memorial Highway} - Inventory Route Log Direction West to East.. Overall Rating:
Inlet - South Side of the Structure..

Rating

Overlay: Bituminous Concrete Pavement with Approximately 26 feet of Ballast exhibits:
Transverse and longitudinal cracks open up to 1/4" maximum.
Slightly open paving seam down the centerline open up to 1/4".

Deck - Str. Condition:

Curbs:

Median:

Sidewalks:

Parapet:

Railing:

Paint:

Fence:

Drains:

Lighting Standard:

Overall Utility Condition Rating

Utility Type/Size

Construction Joints:

Expansion Joint:

Haunches Present over travelway?

APPROACH CONDITION:

Overall Rating:

Rating

Approach Slab:

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

Relief Joints:	N	
Approach Guide Rail:	7	Steel Cable with Steel Posts {No Offset Brackets} exhibit: Areas of light rust.
Approach Pavement:	7	Bituminous Concrete Approach Pavement exhibits: Transverse and longitudinal cracks open up to 1/4" maximum. Slightly open paving seam down the centerline open up to 1/4".
Approach Embankment:	8	

Traffic Safety Features

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

59. SUPERSTRUCTURE:

Overall Rating:

Rating

Bearing Devices:	N	
Stringers:	N	
Girders:	N	
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:	N	
Collision Damage:	N	
Member Alignment:	N	
Deflection Under Load:	N	
Vibration Under Load:	N	
Stand Pipes:	N	
Catwalks:		
Movable Inspection System:		
Barrel Ladders:	N	

Are Barrel Ladders OSHA Compliant?

60. SUBSTRUCTURE:

Overall Rating:

Form: BRI-18, Rev. 1/14
 Inspection type: Routine
 Inspection Date: 2/06/2019
 Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
 Carried: ROUTE 2 E/B
 Crossed: BROOK
 Inventory Route: NHS

Rating

Abutments - Stem:	N	
Abutments - Backwall:	N	
Abutments - Footings:	N	
Abutments - Settlement:	N	
Abutments - Wingwalls:	N	
Piers/Bents - Caps:	N	
Piers/Bents - Pile Bent:	N	
Piers/Bents - Columns:	N	
Piers/Bents - Footings:	N	
Piers/Bents - Settlement:	N	
Erosion - Scour:	N	
Concrete Crack - Spall:	N	
Steel Corrosion:	N	
Paint:	N	
Timber Decay:	N	
Collision Damage:	N	
Debris:	N	

61. CHANNEL AND CHANNEL PROTECTION:

Overall Rating:

Rating

Channel - Scour:	<input type="text" value="5"/>	<p>Minor scour noted at the outlet:</p> <p>A 4ft. dia. scour pool between the wingwalls at the outlet with water depths up to 48" deep.</p> <p>Scour at the outlet has exposed the cut-off wall full width x up to 28" high.</p> <p>The top of the footing on the northeast wingwall is approx. 3ft. long.</p> <p>Water depths upstream range from 1" to 3".</p> <p>Water depths in the pipe are 1" to 3".</p>
Embankment - Erosion:	<input type="text" value="7"/>	<p>Minor around the inlet and outlet pipe ends.</p> <p>Behind the north headwall there's</p>
Debris:	<input type="text" value="6"/>	Dead branches and some natural debris along the embankments.
Vegetation:	<input type="text" value="8"/>	Embankments are well vegetated.
Channel Change:	<input type="text" value="8"/>	
Fender - System:	N	
Spur Dikes and Jetties:	N	
Rip Rap:	N	

62. CULVERTS AND RETAINING WALLS:

Single Span Corrugated Steel Round Pipe Culvert.. Overall Rating:

Form: BRI-18, Rev. 1/14
 Inspection type: Routine
 Inspection Date: 2/06/2019
 Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
 Carried: ROUTE 2 E/B
 Crossed: BROOK
 Inventory Route: NHS

Span No. 1: 6 feet 00 inch diameter Round Pipe by 218 feet 00 inch {length}..
 Corrugation Size: 2 2/3 inch by 1/2 inch by 8 gage {0.1680 inch thickness}..
 Reinforced concrete headwalls and wingwalls.

Rating

Barrel:	N	
Concrete:	N	
Steel:	3	Corrugated Steel Round Pipe Culvert exhibits: Overall rating based on flattening condition of the crown of pipe {possibly a construction defect}. The worst section of flattening is from 12' mark to the 75' mark {measurements start at the outlet end}. The crown is flattened up to + 12". Random areas of asphalt coating loss on the corner and bottom plates with heavy rust on exposed steel. Between the 50' mark and 90' marks the invert and lower stems exhibit perforations up to 4" in diameter with active water leakage. The joints at the same locations also exhibit water leakage. Small < 1/2" diameter perforations scattered throughout the invert were the steel is exposed.
Timber:	N	
Headwall:	7	Reinforced concrete headwall: Light map hairline cracks. Cable mesh fence over the top of the inlet headwall.
Cutoff Wall:	5	Scour at the outlet has exposed the cut-off wall full width x up to 28" high.
Debris:	8	
Retaining Wall System:	6	Reinforced concrete wingwalls: Light map hairline cracks. The top of the footing at the northeast wingwall is exposed 3' long.
Footing:	6	The top of the footing at the northeast wingwall is exposed 3ft. long.

LOAD POSTING:

Rating

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

Form: BRI-18, Rev. 1/14
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

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"/>				
Legibility:	<input type="text"/>				
Visibility:	<input type="text"/>				

NOTES / COMMENTS:

Character of Traffic: Light to moderate traffic/mixed weights.

Additional Notes:

Inspected west to east.

North is downstream.

Additional Comments:

National Bridge Elements

Inspection type: Routine

Inspection Date: 2/06/2019

Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER

Carried: ROUTE 2 E/B

Crossed: BROOK

Inventory Route: NHS

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
240 - Steel Culvert	Mod.	218	ft.	0	114	41	63
	Single Span Corrugated Steel Round Pipe Culvert.. Span No. 1: 6 feet 00 inch diameter Round Pipe by 218 feet 00 inch {length}.. Corrugation Size: 2 2/3 inch by 1/2 inch by 8 gage {0.1680 inch thickness}.. 63 linear feet of flattening, +/- 12" less than normal diameter.						
1000 - Corrosion		154		0	114	40	0
1900 - Distortion		63		0	0	0	63
6000 - Scour		1		0	0	1	0

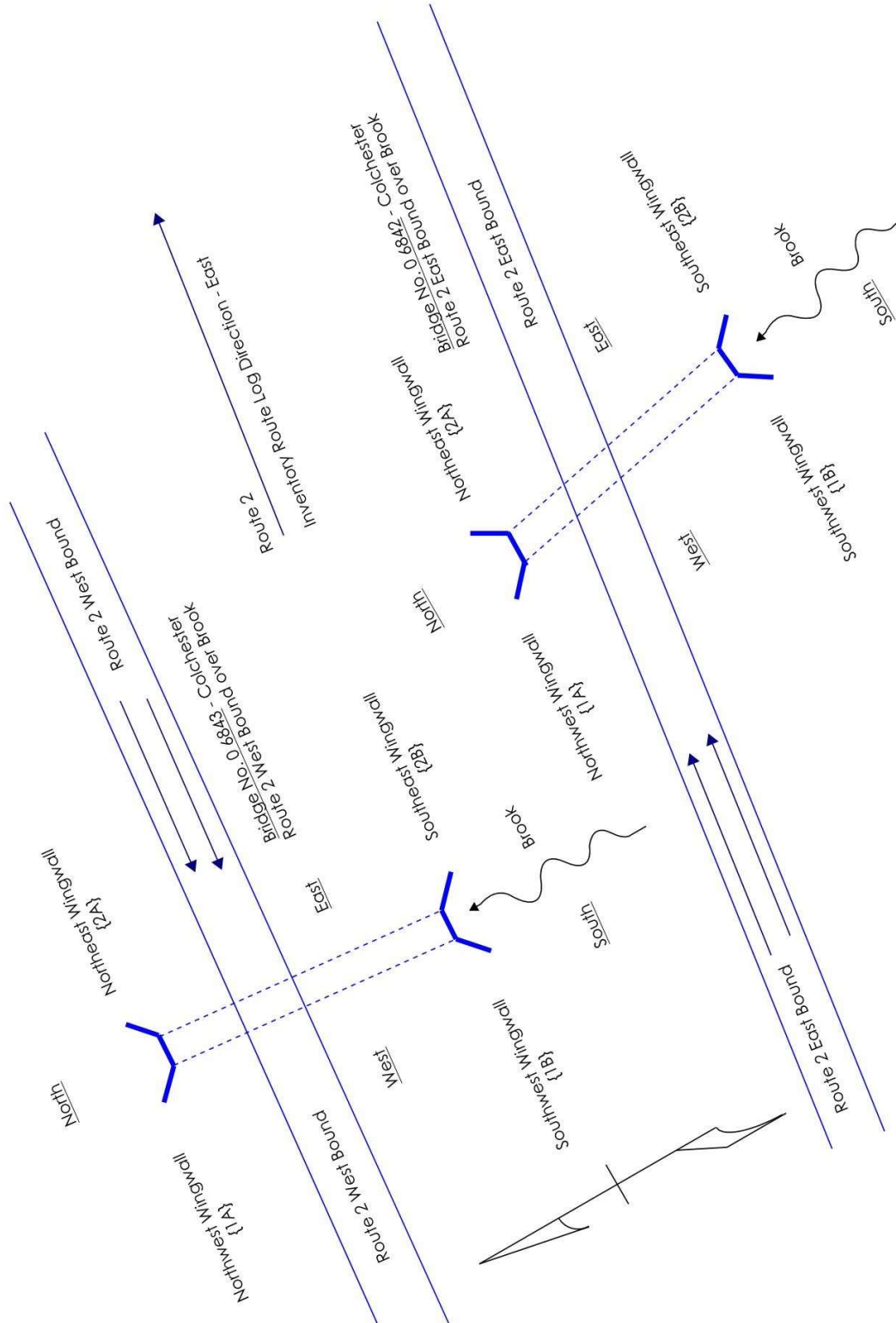
Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

Bridge No. 0 6843 - Colchester
Route 2 West Bound over Brook
Plan View
Not to Scale

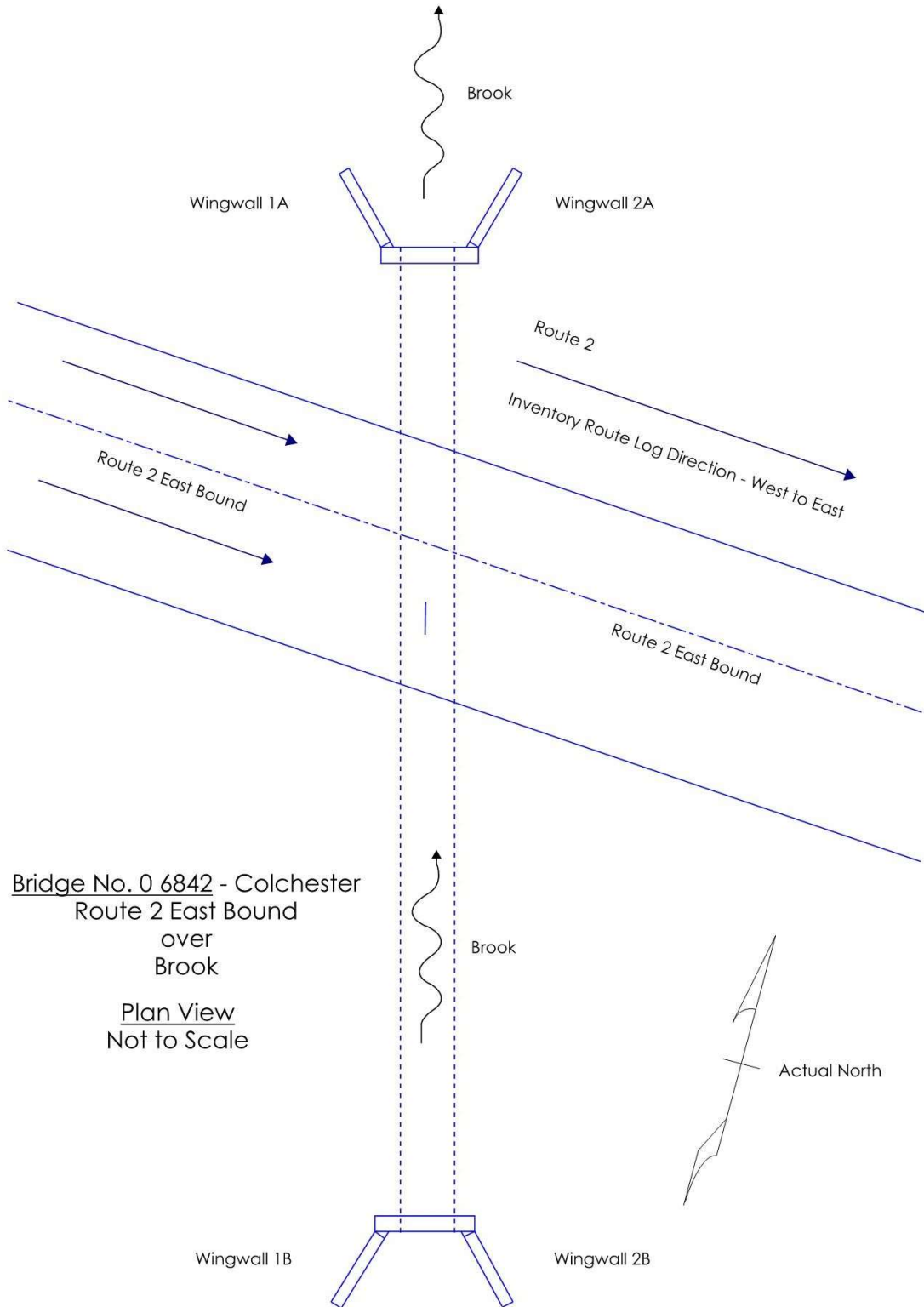


Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS



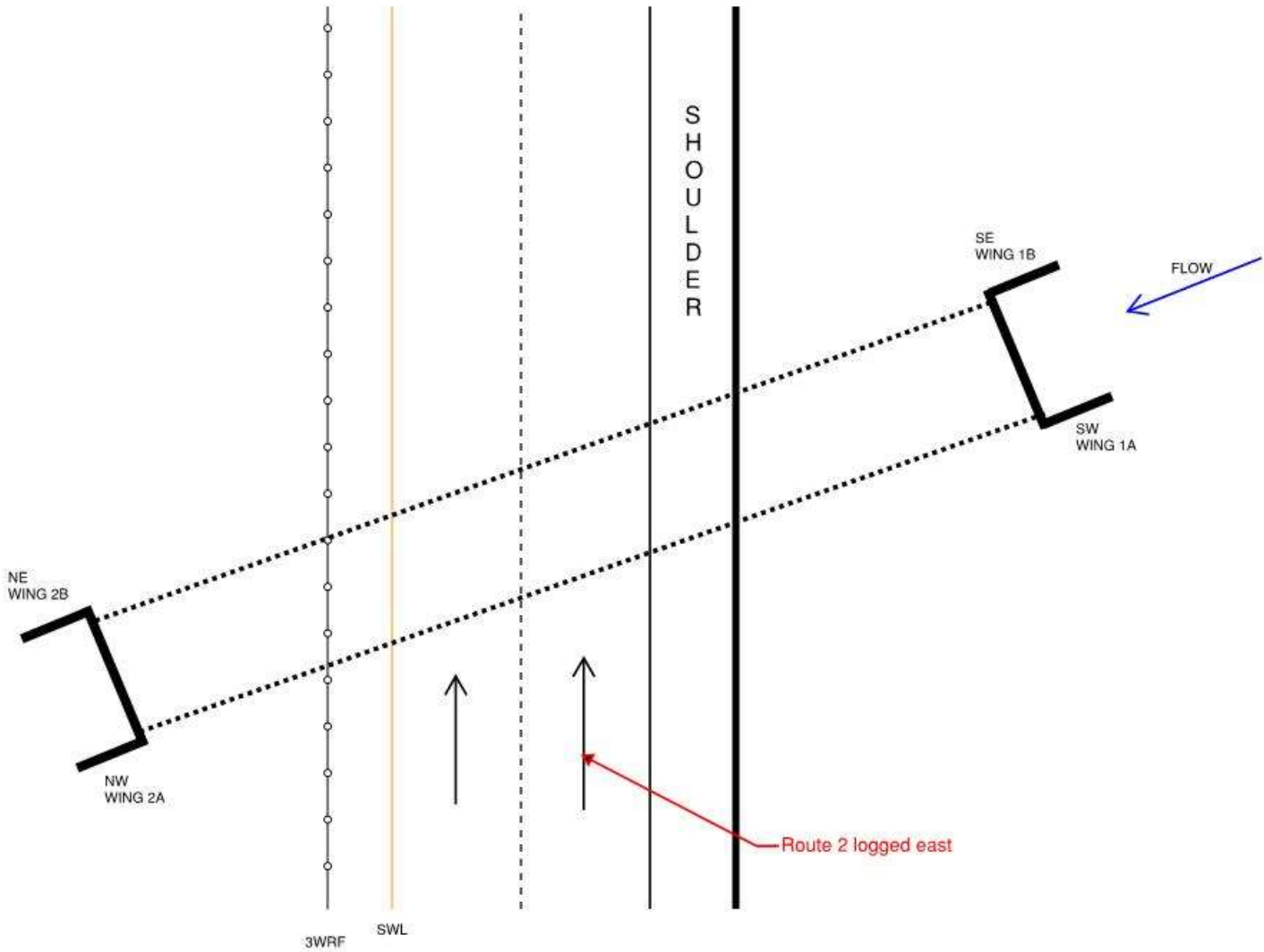
Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

CREW: TEAM 5	DATE: 2/6/19	BRIDGE NO.: 06842
--------------	--------------	-------------------



KEY PLAN

REVISION	DATE:	CREW:	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

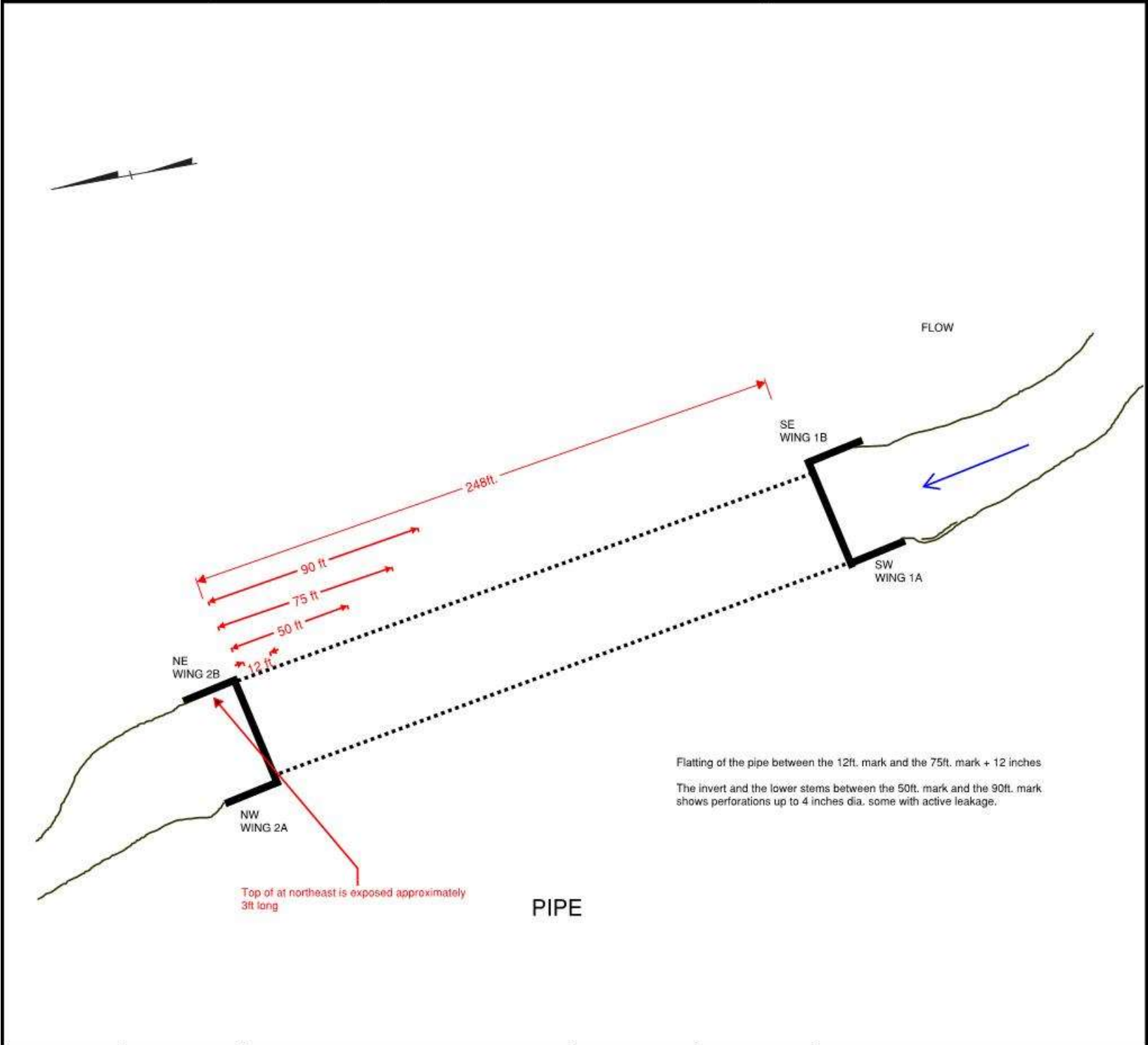
Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

CREW: TEAM 5	DATE: 2/6/19	BRIDGE NO.: 06842
--------------	--------------	-------------------



REVISION	DATE:	CREW:	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

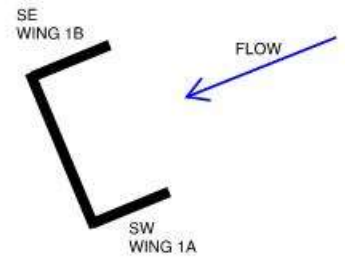
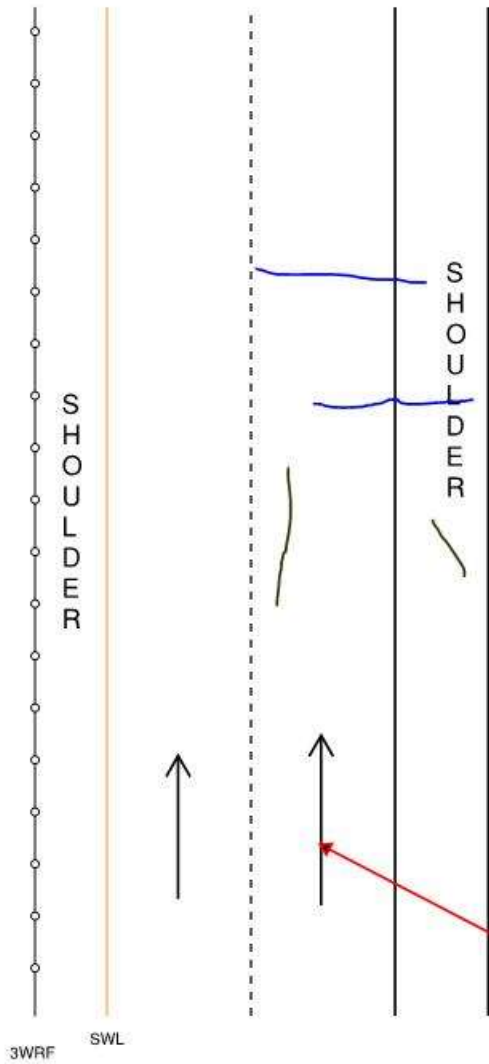
:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

CREW: TEAM 5

DATE: 2/6/19

BRIDGE NO.: 06842



TOPSIDE OF DECK

REVISION	DATE:	CREW:	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

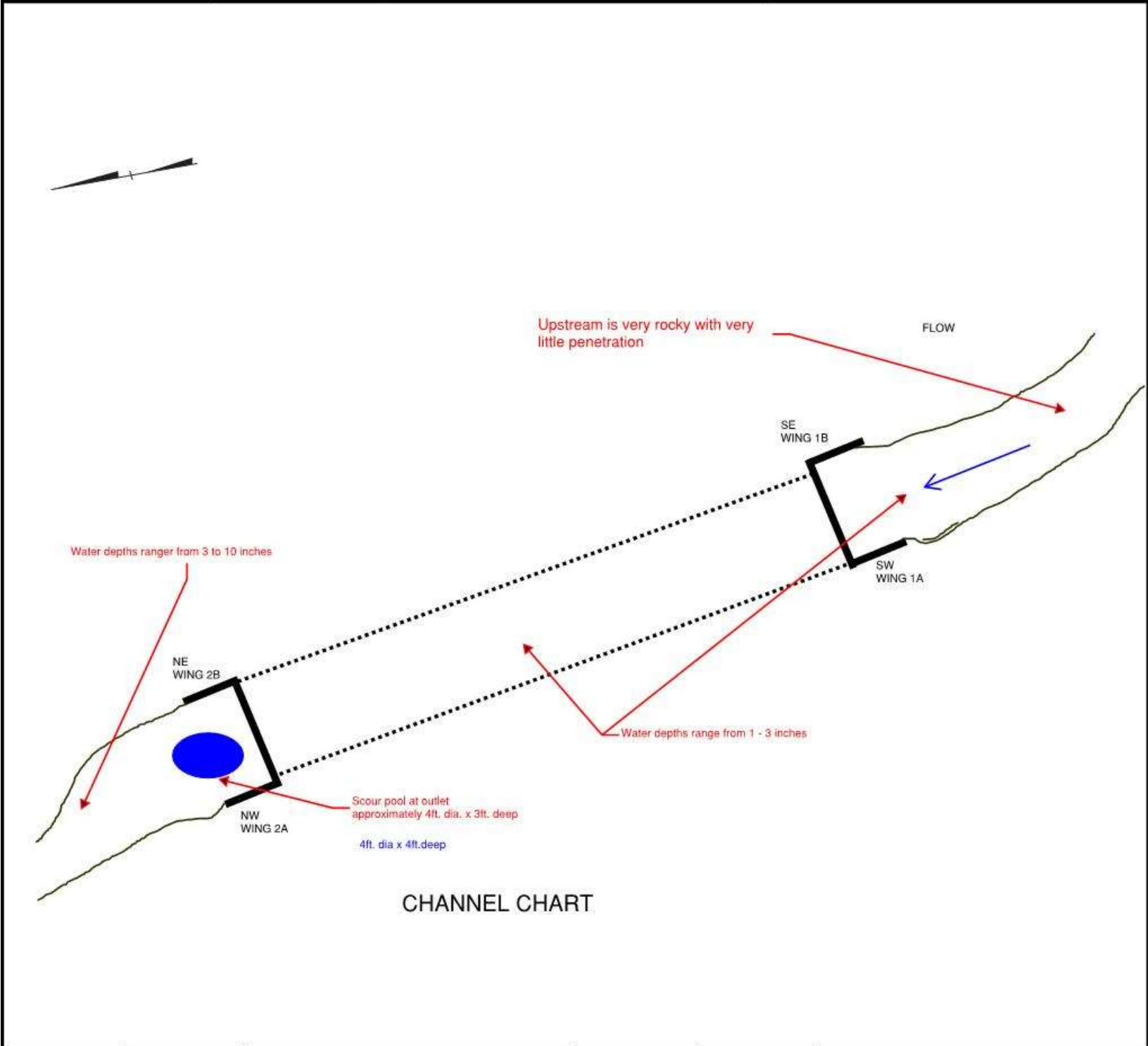
Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

CREW: TEAM 5	DATE: 2/6/19	BRIDGE NO.: 06842
--------------	--------------	-------------------



CHANNEL CHART

REVISION	DATE: 2/6/19	CREW: Team 5	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

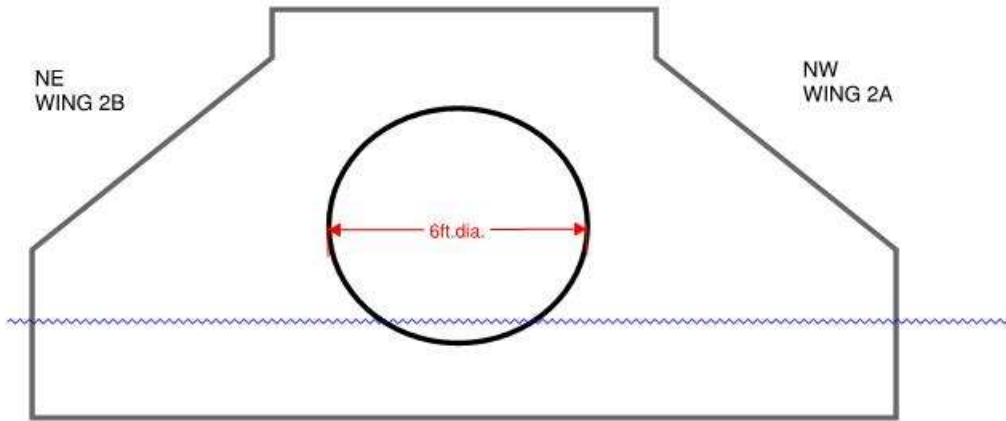
Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

CREW: TEAM 5	DATE: 2/6/19	BRIDGE NO.: 06842
---------------------	--------------	-------------------



NORTH ELEVATION (outlet)

REVISION 	DATE:	CREW:	REVISION 	DATE:	CREW:
REVISION 	DATE:	CREW:	REVISION 	DATE:	CREW:

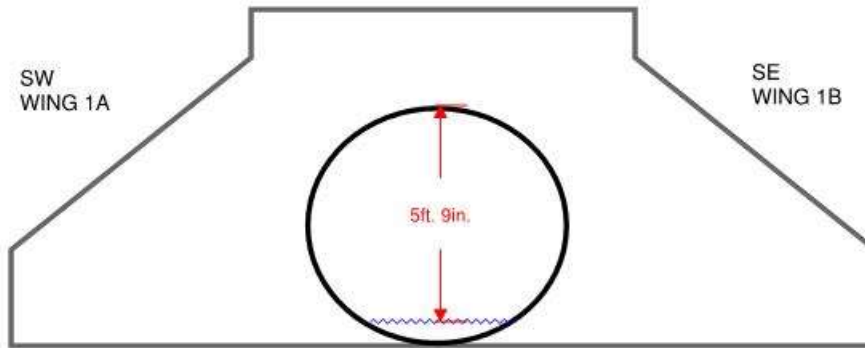
Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

CREW: TEAM 5	DATE: 2/6/19	BRIDGE NO.: 06842
---------------------	--------------	-------------------



SOUTH ELEVATION (inlet)

REVISION 	DATE:	CREW:	REVISION 	DATE:	CREW:
REVISION 	DATE:	CREW:	REVISION 	DATE:	CREW:

Sketches

Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

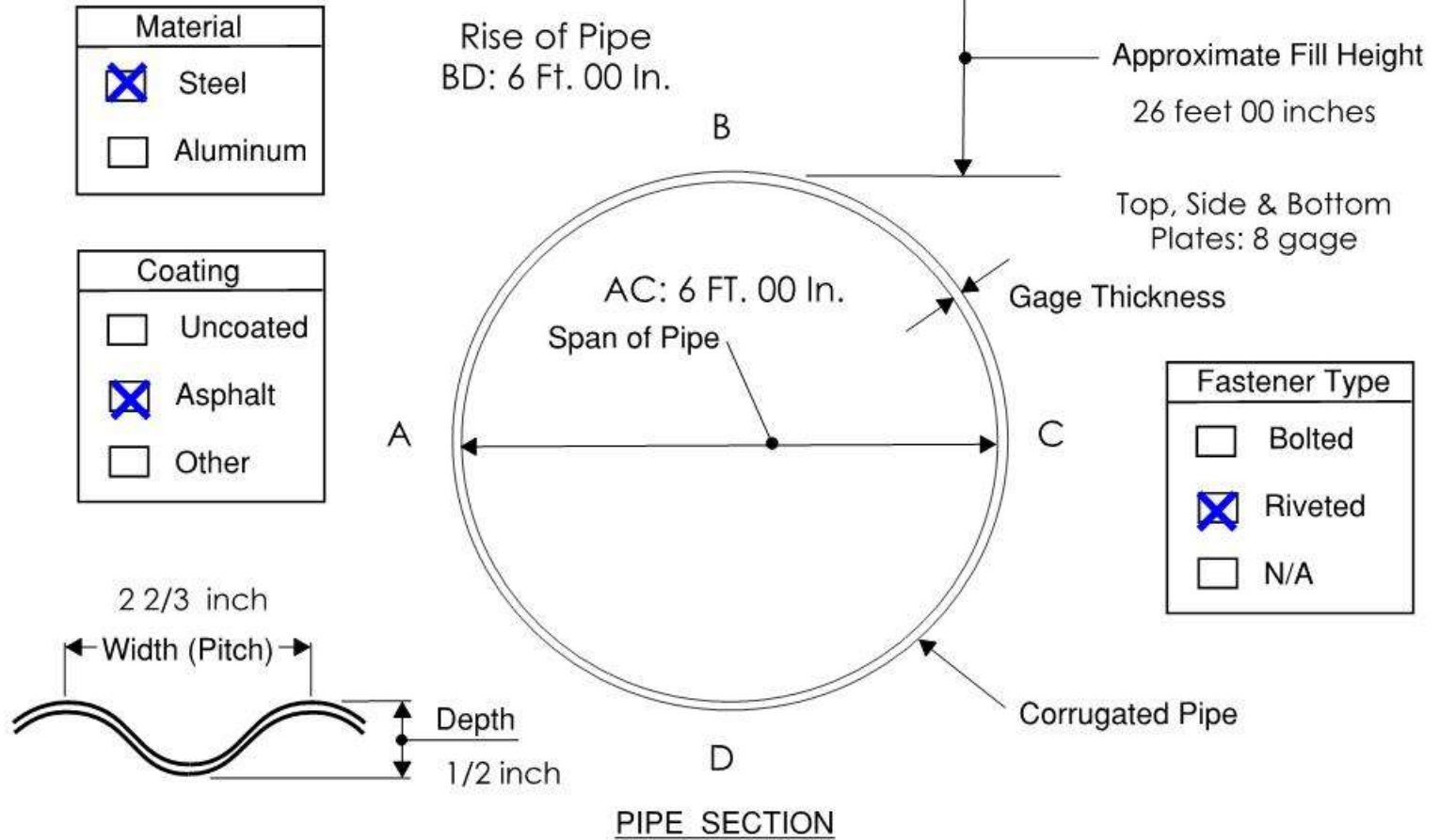
Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

CREW: David Pawlikowski, P.E.

DATE: February 14, 2019

BRIDGE NO.: 0 6842

Route 2 East Bound



Span	Corrugation Size	Corrugation Pipe Size	Pipe Length
No. 1	Top, Side & Bottom Plates 2 2/3 inch by 1/2 inch by 8 gage {0.168 inch Thickness}	6 feet 00 inch Round Pipe	218 feet 00 inches

Notes: Project No. 28 - 128 - Year 1968

REVISION	DATE:	CREW:	REVISION	DATE:	CREW:
REVISION	DATE:	CREW:	REVISION	DATE:	CREW:

Sketches

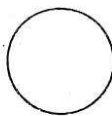
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS

Bridge No. 0 6842 - Colchester
 Route 2 East Bound over Brook

Table HC-1 Height-of-Cover Limits for Corrugated Steel Pipe
H 20 LIVE LOAD 2 2/3" X 1/2" Corrugations



Diameter or Span in Inches	Min.* Cover	Maximum Cover in Feet						
		Specified Thickness in Inches						
		0.052	.064	.079	.109	.138	.168	
12	2-in. Minimum Cover	199	248	310				
15		159	199	248				
18		132	166	207				
21		113	142	178	249			
24		99	124	155	218			
27			111	138	193			
30			99	124	174			
36			83	103	145	186		
42				71	88	124	195	
48				62	77	109	171	
54					66	93	147	
60						79	125	
66						68	107	
72							73	89
78								74
84								61
90							50	
96							41	

Span No. 1: Corrugated Steel Round Pipe Size

72 inch Diameter Round Pipe
 by 218 feet 00 inch {Length}

*From top of pipe to top of subgrade.

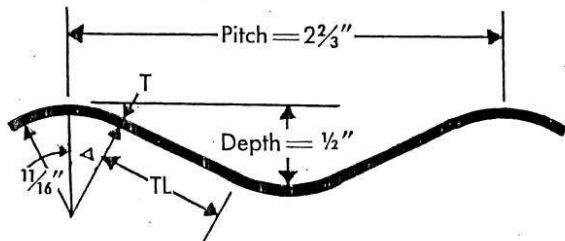


Table 1-7 Sectional Properties of Corrugated Steel Sheets^{3,4}

Per Foot of Section Width for Corrugation: 2 2/3 x 1/2 in. (Annular or Helical)
 Radius of Curvature: 1 1/8 in.

Specified Thickness In.	Uncoated Thickness T In.	Area of Section A Sq. In./Ft.	Tangent Length TL In.	Gangent Angle Δ Degrees	Moment of Inertia(a) I In. ⁴ /Ft.	Section Modulus(a) S In. ³ /Ft.	Radius of Gyration r In.	De-veloped Width Factor (b)
0.040	0.0359	0.465	0.785	26.56	0.0135	0.0503	0.1702	1.080
0.052	0.0478	0.619	0.778	26.65	0.0180	0.0659	0.1707	1.080
0.064	0.0598	0.775	0.770	26.74	0.0227	0.0812	0.1712	1.080
0.079	0.0747	0.968	0.760	26.86	0.0287	0.0998	0.1721	1.080
0.109	0.1046	1.356	0.740	27.11	0.0411	0.1360	0.1741	1.080
0.138	0.1345	1.744	0.720	27.37	0.0544	0.1714	0.1766	1.081
0.168	0.1644	2.133	0.699	27.65	0.0687	0.2069	0.1795	1.081

Span No. 1: Steel Corrugation Size

2 2/3 inch by 1/2 inch by 8 gage
 {0.168 inch Thickness}

(a) Per foot of projection about the neutral axis.
 To obtain A, I, or S per inch of width, divide the above values by 12.
 (b) Developed width factor measures the increase in profile length due to corrugating.

**Bridge No. 0 6842
Town of Colchester
Route 2 East Bound over Brook**

**Horizontal & Vertical Round Pipe Diameter Measurements
Project No. 28 - 128 - Year 1968**

Date:	16-Dec-13	16-Dec-13	3-Nov-14	3-Nov-14	15-Sep-15	15-Sep-15	10-Nov-16	10-Nov-16	
Location	Horizontal Diameter	Vertical Diameter	Horizontal Diameter	Vertical Diameter	Horizontal Diameter	Vertical Diameter	Horizontal Diameter	Vertical Diameter	
Outlet	6' - 00"	5' - 9 5/8"	5' - 11 3/8"	5' - 4 1/2"	5' - 11 5/8"	5' - 9 5/8"	5' - 11 5/8"	5' - 9 13/16"	Outlet
25 feet	6' - 10"	5' - 00"	6' - 9 1/2"	5' - 00"	6' - 9 13/16"	5' - 1"	6' - 9 21/32"	5' - 1"	
50 feet	6' - 11"	4' - 11"	6' - 10 5/8"	4' - 11"	6' - 10 3/4"	4' - 10 15/16"	6' - 10 3/4"	4' - 10 23/32"	
75 feet	6' - 8 1/2"	5' - 2 3/4"	6' - 8 1/8"	5' - 1 1/4"	6' - 8 1/8"	5' - 2 5/16"	6' - 8 7/32"	5' - 1 17/32"	
100 feet	6' - 4 3/4"	5' - 5"	6' - 4 1/2"	5' - 4 1/4"	6' - 4 15/16"	5' - 4 3/4"	6' - 4 11/16"	5' - 4 19/32"	
125 feet	6' - 5"	5' - 4"	6' - 4 7/8"	5' - 3 1/2"	6' - 5"	5' - 3 11/16"	6' - 4 31/32"	5' - 4 1/32"	
150 feet	6' - 4 3/4"	5' - 3 1/2"	6' - 4 5/16"	5' - 3 1/2"	6' - 4 13/16"	5' - 3 3/16"	6' - 4 7/8"	5' - 3 15/32"	
175 feet	6' - 2"	5' - 6"	6' - 2"	5' - 6 3/8"	6' - 2 5/16"	5' - 6 3/16"	6' - 2 1/4"	5' - 6 15/16"	
Inlet	5' - 11 1/2"	5' - 10 3/4"	5' - 11 1/4"	5' - 10 1/2"	5' - 11 1/4"	5' - 10 5/16"	5' - 10 7/32"	5' - 10 7/8"	Inlet

Notes: Corrugated Steel Round Pipe - 72 inch diameter by 218 feet - 00 inches {length}
 Steel Round Pipe Corrugation Size 2 2/3 inch by 1/2 inch by 8 gage {0.1680 inch thickness}
 Route 2 East Bound Ballast Depth - Approximately 26 feet 00 inches
 Location - 50 feet from Inlet {South Side of Structure}; 100 feet from Inlet {South Side of Structure}; etc.

**Bridge No. 0 6842
Town of Colchester
Route 2 East Bound over Brook**

**Horizontal & Vertical Round Pipe Diameter Measurements
Project No. 28 - 128 - Year 1968**

Date:	6-Mar-18	6-Mar-18	6-Feb-19	6-Feb-19					
Location	Horizontal Diameter	Vertical Diameter	Horizontal Diameter	Vertical Diameter	Horizontal Diameter	Vertical Diameter	Horizontal Diameter	Vertical Diameter	
Outlet	5' - 11"	5' - 9"	5' - 11 1/2"	5' - 9 3/4"					Outlet
25 feet	6' - 9"	5' - 00"	6' - 9 11/16"	5' - 00"					
50 feet	6' - 11"	4' - 11"	6' - 11"	4' - 11"					
75 feet	6' - 1"	5' - 1"	6' - 5"	5' - 1"					
100 feet	6' - 4"	5' - 4"	6' - 4"	5' - 4"					
125 feet	6' - 5"	5' - 4"	6' - 5"	5' - 4"					
150 feet	6' - 4"	5' - 3"	6' - 5"	5' - 4 5/8"					
175 feet	6' - 2"	5' - 6"	6' - 2 9/32"	5' - 6 9/16"					
Inlet	6' - 00"	5' - 10"	6' - 00"	5' - 10"					Inlet

Notes: Corrugated Steel Round Pipe - 72 inch diameter by 218 feet - 00 inches {length}
 Steel Round Pipe Corrugation Size 2 2/3 inch by 1/2 inch by 8 gage {0.1680 inch thickness}
 Route 2 East Bound Ballast Depth - Approximately 26 feet 00 inches
 Location - 50 feet from Inlet {South Side of Structure}; 100 feet from Inlet {South Side of Structure}; etc.

Culvert Worksheet

Bridge No.: 0 6842

Town: Colchester

Facility Carried\Feature Intersected: Route 2 East Bound {Veterans of Foreign Wars Memorial Highway} over Brook {Sherman Brook - Downstream}

Description: Single Span Corrugated Steel Round Pipe Culvert

Span No. 1: 6 feet 00 inches diameter Round Pipe by 218 feet 00 inches {Length}

Corrugation Size: 2 2/3 inch by 1/2 inch by 8 gage {0.1680 inch thickness}

Ballast Depth: Approximately 26 feet of Ballast & Bituminous Concrete Pavement

Item No. 113 Scour Critical: - 8 -

Tidal: No

Rip Rap: No

Cutoff Wall Exposed: Yes - Outlet Cutoff Wall Exposed up to Approximately 28 inch high by the Full Length of the Cutoff Wall

Cutoff Wall Undermining: No

Wingwall Exposed Footing: Yes - Northeast Wingwall {2A} Top of Footing Exposed by Approximately 3 feet 00 inches Long

Wingwall Footing Undermining: No

Concrete Apron: No

Bed Rock: No

Comments: Bridge Plans - Project No. 28 - 128 - Year 1968

Cutoff Wall Height - 2 feet 6 inches - per plans

Wingwall Width {No Footings} - Varies 1 foot 11 1/4 inches to 3 feet 3 3/8 inches - per plans

Prepared By: David Pawlikowski, P.E.
CTDOT - Bridge Safety

Date: February 14, 2019

Form: Asset Photos
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS



Photo Number: 1

Photo Taken: 02/06/2019

Looking east over bridge.



Photo Number: 2

Photo Taken: 02/06/2019

View of overlay.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS



Photo Number: 3

Photo Taken: 02/06/2019

South elevation. (inlet)



Photo Number: 4

Photo Taken: 02/06/2019

Looking upstream.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS



Photo Number: 5

Photo Taken: 02/06/2019

Looking through pipe.



Photo Number: 6

Photo Taken: 02/06/2019

Rust on pipe along water line.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS



Photo Number: 7

Photo Taken: 02/06/2019

View of invert near outlet.



Photo Number: 8

Photo Taken: 02/06/2019

Looking downstream.

Form: Asset Photos
Inspection type: Routine
Inspection Date: 2/06/2019
Inspected by: Team 5

:Bridge No 06842

Town: COLCHESTER
Carried: ROUTE 2 E/B
Crossed: BROOK
Inventory Route: NHS



Photo Number: 9

Photo Taken: 02/06/2019

North elevation. (outlet)