



NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

COUNTY: HALIFAX STRUCTURE NUMBER: 410014 FREQUENCY: 24 MONTHSFACILITY CARRIED: SR1001 MILE POST: LOCATION: 0.6 MI.N.JCT.SR1206FEATURE INTERSECTED: BEAVERDAM SWAMPLATITUDE: 36° 12' 49.8" LONGITUDE: 77° 40' 27.2"SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOISTSUBSTRUCTURE: EBTS&IBTS:TIMBER CAPS/TIMBER PILES@VAR.CTS.SPANS: 1@17'9,1@17',1@17'5☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTIONPRESENT CONDITION: Fair INSPECTION DATE: 08/19/2015POSTED SV: 19 POSTED TTST: 28OTHER SIGNS PRESENT: 4 DELINEATORS

LOOKING NORTH

Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

INSPECTED BY Z.S. DUNLOW	SIGNATURE 	ASSISTED BY G.L. HARRINGTON
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Span Element Report

Structure Number: 410014

Inspection Date: 08/19/2015

Span Number 1

Span Length 18 Feet

Number of Beams/Girders: 23

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	432	432	0	0	0	0	3324
111		Timber Open Girder/Beam	437	437	0	0	0	0	3304
218		Other Abutments	30	30	0	0	0	0	3350
228		Timber Pile	5	5	0	0	0	0	3344
235		Timber Pier Cap	24	24	0	0	0	0	3344
330		Metal Bridge Railing	36	33	1	2	0	3	3322
510		Wearing Surface	0	-96	96	0	0	96	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 2

Span Length 17 Feet

Number of Beams/Girders: 22

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	408	408	0	0	0	0	3324
111		Timber Open Girder/Beam	414	414	0	0	0	0	3304
228		Timber Pile	5	5	0	0	0	0	3344
235		Timber Pier Cap	24	24	0	0	0	0	3344
330		Metal Bridge Railing	34	34	0	0	0	0	3322
510		Wearing Surface	0	-70	70	0	0	70	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 3

Span Length 17 Feet

Number of Beams/Girders: 23

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	408	408	0	0	0	0	3324
111		Timber Open Girder/Beam	414	414	0	0	0	0	3304
218		Other Abutments	30	30	0	0	0	0	3350
228		Timber Pile	10	9	0	1	0	0	3344
235		Timber Pier Cap	48	48	0	0	0	0	3344
330		Metal Bridge Railing	34	33	0	1	0	1	3322
510		Wearing Surface	0	-60	60	0	0	60	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 410014

Inspection Date: 08/19/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	31	Timber Deck	432	432	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	18	15	1	2	0	3	3322	☐ Requested
☒ Bridge Rail	2	330	Metal Bridge Railing	18	18	0	0	0	0	3322	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	0	-96	96	0	0	96	2816	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	20	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	21	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	22	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	23	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested

Structure Number: 410014

Inspection Date: 08/19/2015

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	31	Timber Deck	408	408	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	17	17	0	0	0	0	3322	☐ Requested
☒ Bridge Rail	2	330	Metal Bridge Railing	17	17	0	0	0	0	3322	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	0	-70	70	0	0	70	2816	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	20	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	21	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	22	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☐ Beam	23	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested

Structure Number: 410014

Inspection Date: 08/19/2015

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	31	Timber Deck	408	408	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	17	16	0	1	0	1	3322	☐ Requested
☒ Bridge Rail	2	330	Metal Bridge Railing	17	17	0	0	0	0	3322	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	0	-60	60	0	0	60	2816	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	20	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	21	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	22	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	23	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 410014

Inspection Date: 08/19/2015

Span Number 1

Span	1	Bridge Rail	1	Component Name:					Steel Rail				
Element:	330	Name	Metal Bridge Railing	Qty:	18	Lvl 2:	1	Lvl 3	2	Lvl 4	0	Maint. Qty	3
Defect Description:													

2 Feet of Connection: 3 Missing bolts, rivets, or fasteners; broken welds; or pack rust with distortion but does not warrant a structural review.

POST BLOCK 4 MISSING OVER BENT 1.

Span	1	Wearing Surfaces	Component Name:	Asphalt Wearing Surface									
Element:	510	Name	Wearing Surface	Qty:	0	Lvl 2:	96	Lvl 3	0	Lvl 4	0	Maint. Qty	96
Defect Description:													

96 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Span Number 2

Span	2	Wearing Surfaces	Component Name:	Asphalt Wearing Surface									
Element:	510	Name	Wearing Surface	Qty:	0	Lvl 2:	70	Lvl 3	0	Lvl 4	0	Maint. Qty	70
Defect Description:													

70 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Span Number 3

Span	3	Bridge Rail	1	Component Name:	Steel Rail								
Element:	330	Name	Metal Bridge Railing	Qty:	17	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	1
Defect Description:													

POST BLOCK MISSING OVER END BENT 2.

Span	3	Wearing Surfaces	Component Name:	Asphalt Wearing Surface									
Element:	510	Name	Wearing Surface	Qty:	0	Lvl 2:	60	Lvl 3	0	Lvl 4	0	Maint. Qty	60
Defect Description:													

60 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Substructure Detailed Element Quantities

Structure Number: 410014

Inspection Date: 08/19/2015

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	218	Other Abutments	30	30	0	0	0	0	3350	☐ Requested
☒ Caps	1	235	Timber Pier Cap	24	24	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	235	Timber Pier Cap	24	24	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	235	Timber Pier Cap	24	24	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	0	1	0	0	3344	☐ Requested

Structure Number: 410014

Inspection Date: 08/19/2015

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	218	Other Abutments	30	30	0	0	0	0	3350	☐ Requested
☒ Caps	1	235	Timber Pier Cap	24	24	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 410014

Inspection Date: 08/19/2015

End Bent 1

End Bent 1	Row 1	Abutments	1							
Element: 218	Name	Other Abutments	Qty:	30	Lvl 2:	0	Lvl 3	0	Lvl 4	0 Maint. Qty 0
Defect Description: TIMBER.										

Bent 2	Row 1	Piles and Columns	5							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0 Maint. Qty 0
Defect Description:										

1 Each of Split, AREA IS 3" TALL, 1/2" WIDE, AND 5" DEEP. Length equal to or greater than the member depth but does not require structural review.

National Bridge and NC Inspection Items

Structure Number: 410014

Inspection Date: 08/19/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	5
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	F	0	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	P	0	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	10		

Note: If NC SMU Inspection Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	3
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 410014

Inspection Date: 08/19/2015

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
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Details PRESENTLY POSTED SV 19 TONS, TTST 28 TONS.

Item	Drift	Grade	P	Maint Code	3366	Qty.	0
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Details BEAVERDAM BLOCKING STREAM ON WEST SIDE, 50' FROM STRUCTURE.

Item	Field Scour Evaluation	Grade	O	Maint Code		Qty.	0
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Details STRUCTURE IS NOT SCOUR CRITICAL, BUT IS RATED "Z". NCDOT HYDRAULICS UNIT REQUIRES NOTIFICATION IF MUDLINE SCOURS TO A DEPTH 4' GREATER THAN THE BASELINE ESTABLISHED BY THE 2008-2009 STREAMBED PROFILE.



Span 1 Left Bridge Rail: 2 Feet of Connection: 3 Missing bolts, rivets, or fasteners; broken welds; or pack rust with distortion but does not warrant a structural review.



Bent 2 Pile 5: 1 Each of Split, AREA IS 3" TALL, 1/2" WIDE, AND 5" DEEP. Length equal to or greater than the member depth but does not require structural review.



BEAVERDAM BLOCKING STREAM ON WEST SIDE, 50' FROM STRUCTURE.



LOOKING NORTH



CLOSEUP OF WEIGHT LIMIT SIGN



APPROACH ROADWAY



WEARING SURFACE



WEARING SURFACE



LOOKING WEST UPSTREAM



LOOKING EAST DOWNSTREAM



EAST SIDE



WEST SIDE



LOOKING SOUTH WEIGHT LIMIT SV 19 TONS, TTST 28 TONS



END BENT 1



BENT 1



BOTTOM OF DECK



BOTTOM OF DECK



BENT 2



END BENT 2

Run Date: 04/18/2016

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	410014		SUFFICIENCY RATING =		56.83	
(8) STRUCTURE NUMBER(FEDERAL)		00000000830014		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31010010					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	83	(4) PLACE CODE	0				
(6) FEATURE INTERSECTED -	BEAVERDAM SWAMP						
(7) FACILITY CARRIED	SR1001						
(9) LOCATION	0.6 MI.N.JCT.SR1206						
(11)MILEPOINT		0					
(16)LAT	36° 12' 49.80"	(17)LONG	77° 40' 27.20"				
(98)BORDER BRIDGE STATE CODE		PCT SHARE					
(99)BORDER BRIDGE STRUCTURE NO							
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION			
(43) STRUCTURE TYPE MAIN: Wood or Timber				(112)NBIS BRIDGE SYSTEM -		YES	
TYPE -	Stringer Multibeam or Girder	CODE	702	(104)HIGHWAY SYSTEM	Is not on NHS	0	
(44) STRUCTURE TYPE APPR :				(26) FUNCTIONAL CLASS -	Minor Collector	08	
TYPE -		CODE	000	(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(45) NUMBER OF SPANS IN MAIN UNIT		3		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(46) NUMBER OF APPROACH SPANS				(102)DIRECTION OF TRAFFIC -	2-way Traffic	2	
(107)DECK STRUCTURE TYPE -	8	CODE		(103)TEMPORARY STRUCTURE -			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network	0	
(A) TYPE OF WEARING SURFACE -		CODE		(20) TOLL	On Free Road	3	
(B) TYPE OF MEMBRANE -		CODE		(31) MAINTAIN -	State Highway Agency	01	
(C) TYPE OF DECK PROTECTION -		CODE		(22) OWNER -	State Highway Agency	01	
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
AGE AND SERVICE				CONDITION			
(27) YEAR BUILT		1952		(58) DECK		6	
(106)YEAR RECONSTRUCTED				(59) SUPERSTRUCTURE		6	
(42) TYPE OF SERVICE : ON -	Highway			(60) SUBSTRUCTURE		5	
UNDER -	Waterway	CODE	15	(61) CHANNEL & CHANNEL PROTECTION		5	
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE	0	(62) CULVERTS		N	
(29) AVERAGE DAILY TRAFFIC		460					
(30) YEAR OF ADT	2012	(109) TRUCK ADT PCT	6%				
(19) BYPASS OR DETOUR LENGTH		5 MI					
GEOMETRIC DATA				LOAD RATING AND POSTING			
(48) LENGTH OF MAXIMUM SPAN		17 FT		(31) DESIGN LOAD	Unknown	0	
(49) STRUCTURE LENGTH		52 FT		(63) OPERATING RATING METHOD -	Allowable Stress	2	
(50)CURB OR SIDEWALK: LEFT	.2085 FT	RIGHT	.2085 FT	(64) OPERATING RATING -	HS-17	31	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		23.083 FT		(65) INVENTORY RATING METHOD -	Allowable Stress	2	
(52) DECK WIDTH OUT TO OUT		24.083 FT		(66) INVENTORY RATING -	HS-12	22	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		(70) BRIDGE POSTING -	Posting Required	1	
(33) BRIDGE MEDIAN -	No Median	CODE	0	(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
(34) SKEW	0°	(35) STRUCTURE FLARED	0	DESCRIPTION -	Posted for Load		
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		23.083 FT					
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT					
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad	0 FT					
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad	000 FT					
(56) MIN LAT UNDERCLEAR LT REF -		000 FT					
NAVIGATION DATA				APPRAISAL			
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0	(67) STRUCTURAL EVALUATION		5	
(111)PIER PROTECTION -		CODE		(68) DECK GEOMETRY		4	
(39) NAVIGATION VERTICAL CLEARANCE		0		(69) UNDERCLEARANCES,VERTI & HORIZ		N	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		(71) WATERWAY ADEQUACY		7	
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		(72) APPROACH ROADWAY ALIGNMENT		8	
				(36) TRAFFIC SAFETY FEATURES		0000	
				(113)SCOUR CRITICAL BRIDGES		U	
				PROPOSED IMPROVEMENTS			
				(75) TYPE OF WORK -		CODE	
				(76) LENGTH OF STRUCTURE IMPROVEMENT			
				(94) BRIDGE IMPROVEMENT COST			
				(95) ROADWAY IMPROVEMENT COST			
				(96) TOTAL PROJECT COST			
				(97) YEAR OF IMPROVEMENT COST ESTIMATE			
				(114)FUTURE ADT	920	(115) YEAR FUTURE ADT	2025
				INSPECTIONS			
				(90) INSPECTION DATE		08/19/2015	
				(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
				A) FRACTURE CRIT DETAIL -	NO	A)	
				B) UNDERWATER INSP -	NO	B)	
				C) OTHER SPECIAL INSP	NO	C)	
				SCOUR			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 04/18/2016

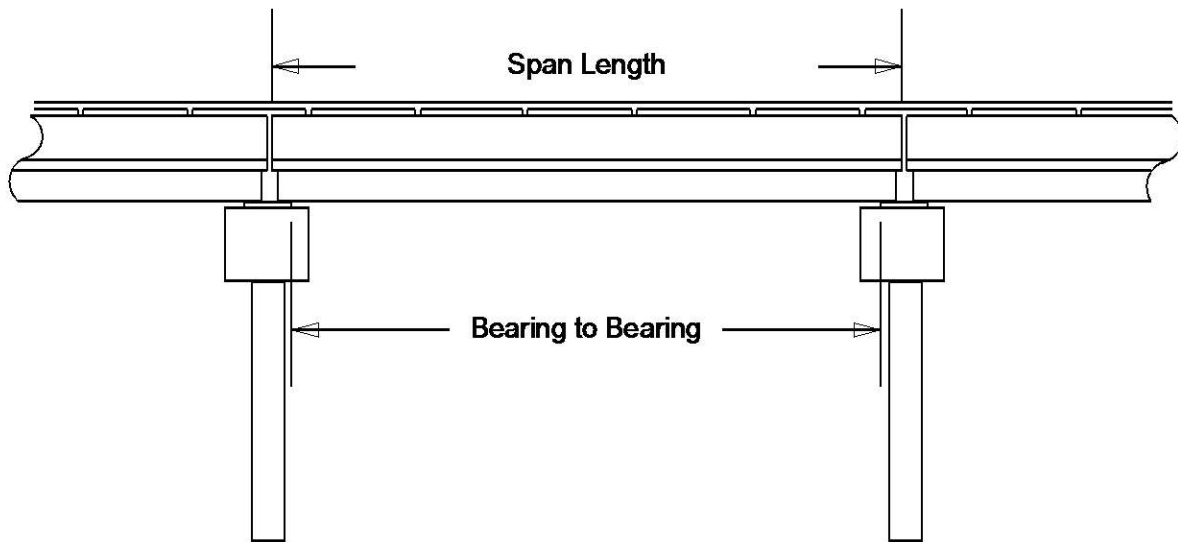
COUNTY : HALIFAX	DIVISION : 4	DISTRICT : 1	STRUCTURE NUMBER : 410014	LENGTH : 52	FEET
ROUTE CARRIED : SR1001		FEATURE INTERSECTED : BEAVERDAM SWAMP			
LOCATED : 0.6 MI.N.JCT.SR1206		BRIDGE NAME :		CITY :	
FUNC. CLASS : 08	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 460 2012	RAIL TYPE : LT 233 RT 233	
BUILT : 1952	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Unknown	
REHAB :	BY : BMU	PROJ : 5.3051	ALIGNMENT : TAN.	SKEW : 90	LANES : ON 2 UNDER 0
NAVIGATION : VC 0 FT	HC 0 FT	HT. CRN. TO BED : 9 FT	WATER DEPTH : 3 FT		
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOIST					
SUBSTRUCTURE : EBTS & INT.BTS.TIMBER CAPS ON TIMBER PILES @ VAR. CTS.					
SPANS : 1@17'9", 1@17',1@17'5"					
BEAMS OR GIRDERS : SPN.1&3:23 LNS;SPN.2:22 LNS.6" X 12" TIMBER JOISTS @ VAR. CENTERS					
FLOOR : 4"X8" TIM, 3.5" AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 24.083 FT		
CLEAR ROADWAY : 23.083 FT	BETWEEN RAILS : 23.5 FT		SIDEWALK OR CURB : LT .2085 FT RT .2085 FT		
VERT.CL.OVER : 999.9 FT					
INV.RTG. : HS-12	OPE.RTG. : HS-17	CONTR.MEMBER : Joist	POSTED : SV 19	TTST 28	DATE 08/19/2011
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N		
UNDER ROUTES AND CLEARANCES					

REMARKS :

Structure Data Worksheet

Spans

County: HALIFAX Structure No: 410014 Date: Inspected By: ZSD



Span No	Span Length	Bearing to Bearing	Comments
1	18 FT.	16.5'	NBIS - 50'
2	17 FT.	16'	
3	17 FT.	16.5'	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 410014 County: HALIFAX Date: _____ By: ZSD

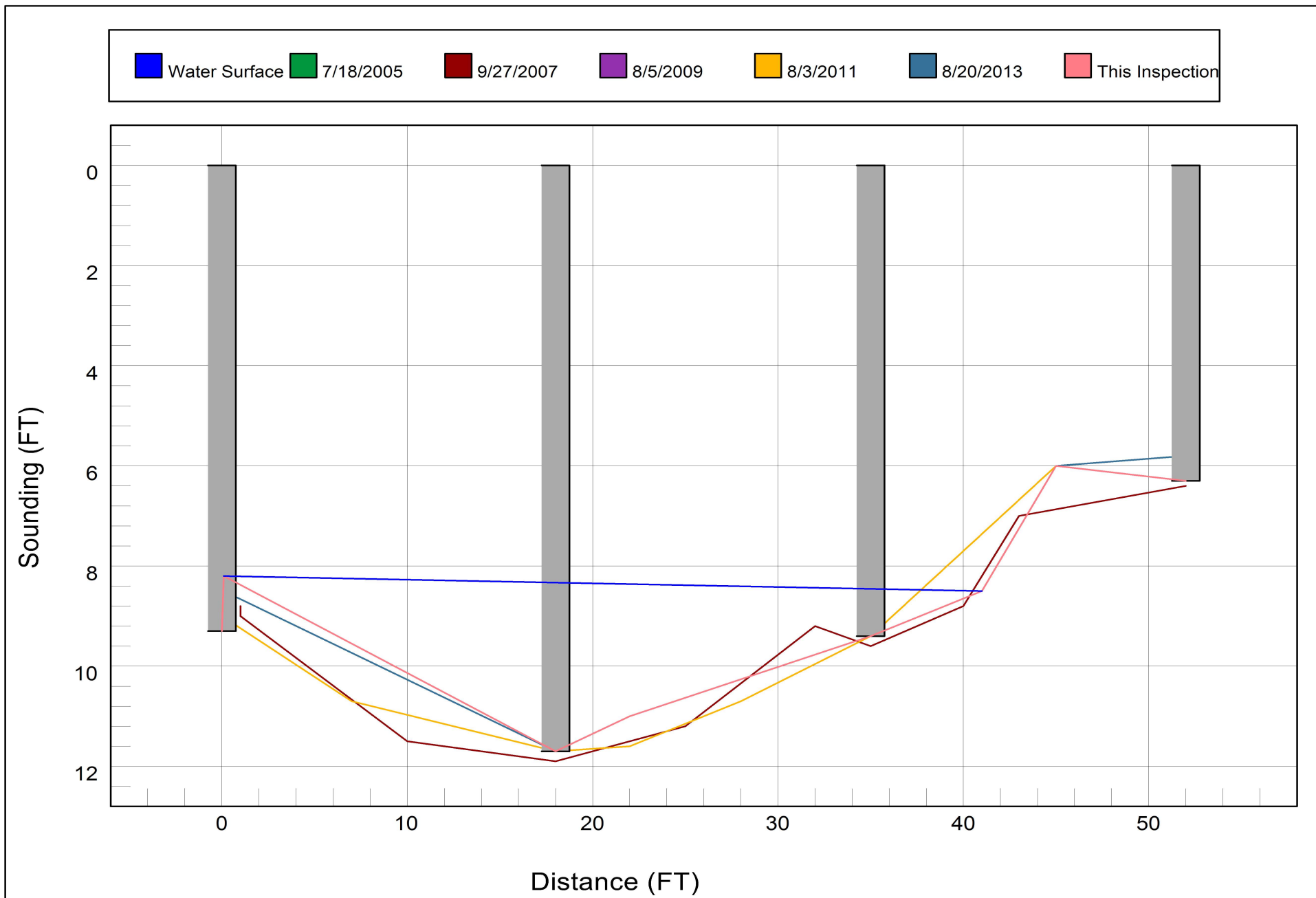
Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	9.3	END BENT 1	0	9.4	END BENT 1
0.1	8.2	WSWE			
18	11.7	BENT 1	18	12	BENT 1
22	11	GROUND			
35	9.4	BENT 2	35	9.1	BENT 2
41	8.5	WSWE			
45	6	GROUND			
52	6.3	END BENT 2	52	7.8	END BENT 2

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

8/19/15. ZSD

Title

APPROACH ROADWAY

Description

APPROACH ROADWAY

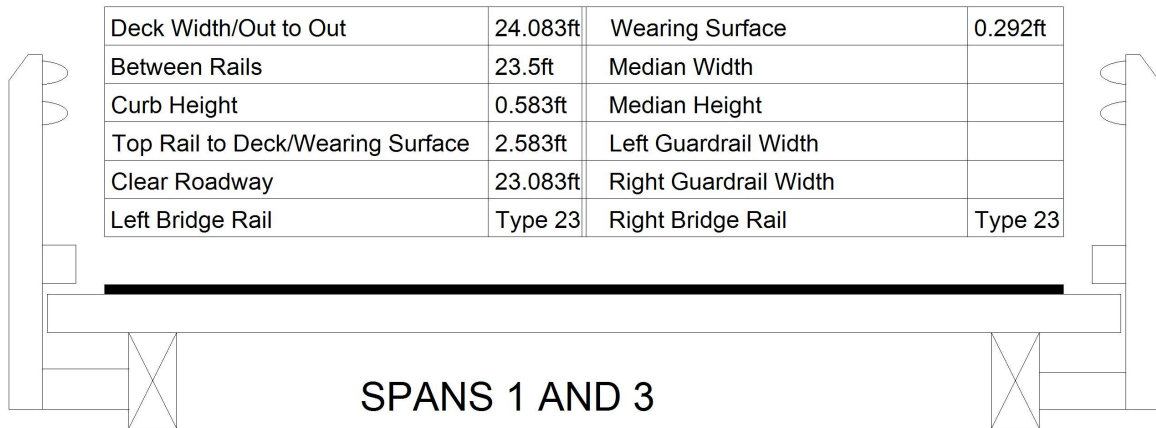
Bridge No: 410014

Drawn By: GLH

Date: 8/20/2013

File Name: S0026001074

Bridge Inspection Field Sketch



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.583
Top of Rail to Bottom of Beam	4.042	Right Overhang	0.583

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.167ft	
2	Timber (Rectangular)	1ft	
3	Timber (Rectangular)	1ft	
4	Timber (Rectangular)	1.042ft	
5	Timber (Rectangular)	1.042ft	
6	Timber (Rectangular)	1ft	
7	Timber (Rectangular)	1.042ft	
8	Timber (Rectangular)	1ft	
9	Timber (Rectangular)	1.042ft	
10	Timber (Rectangular)	1ft	
11	Timber (Rectangular)	1ft	
12	Timber (Rectangular)	1ft	
13	Timber (Rectangular)	1ft	
14	Timber (Rectangular)	1.042ft	
15	Timber (Rectangular)	1.083ft	
16	Timber (Rectangular)	1.083ft	
17	Timber (Rectangular)	1.083ft	
18	Timber (Rectangular)	1.083ft	
19	Timber (Rectangular)	1.083ft	
20	Timber (Rectangular)	1ft	
21	Timber (Rectangular)	1.042ft	
22	Timber (Rectangular)	1.083ft	
23	Timber (Rectangular)		

8/19/15. ZSD

Title

TYPICAL SECTION

Description

TYPICAL SECTION

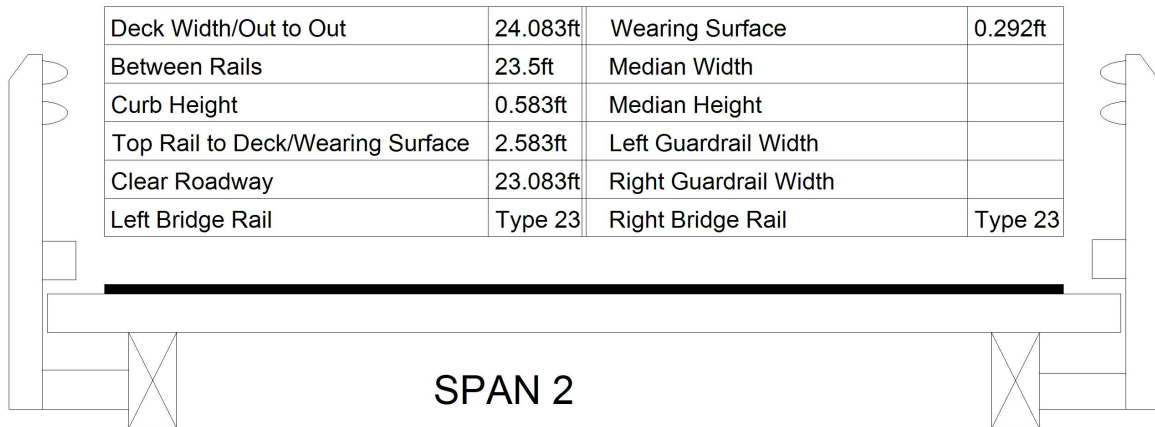
Bridge No: 410014

Drawn By: GLH

Date: 8/20/2013

File Name: S0026001075

Bridge Inspection Field Sketch



Measurements for Span #	2		
Deck Thickness	0.312	Left Overhang	0.583
Top of Rail to Bottom of Beam	4.042	Right Overhang	0.583

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.625ft	
2	Timber (Rectangular)	1.042ft	
3	Timber (Rectangular)	1.042ft	
4	Timber (Rectangular)	1.042ft	
5	Timber (Rectangular)	1.083ft	
6	Timber (Rectangular)	1ft	
7	Timber (Rectangular)	1.042ft	
8	Timber (Rectangular)	1ft	
9	Timber (Rectangular)	1.042ft	
10	Timber (Rectangular)	1.042ft	
11	Timber (Rectangular)	1.042ft	
12	Timber (Rectangular)	1ft	
13	Timber (Rectangular)	1.083ft	
14	Timber (Rectangular)	1.083ft	
15	Timber (Rectangular)	1.042ft	
16	Timber (Rectangular)	1ft	
17	Timber (Rectangular)	1ft	
18	Timber (Rectangular)	1.083ft	
19	Timber (Rectangular)	.958ft	
20	Timber (Rectangular)	1.083ft	
21	Timber (Rectangular)	1.583ft	
22	Timber (Rectangular)		

8/19/15. ZSD

Title

TYPICAL SECTION 2

Description

TYPICAL SECTION 2

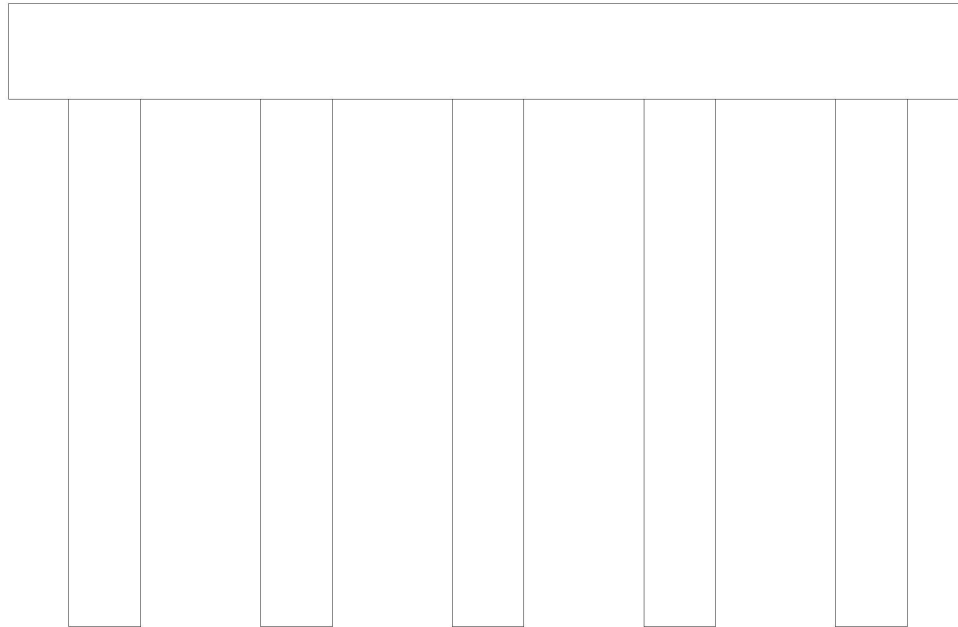
Bridge No: 410014

Drawn By: GLH

Date: 8/20/2013

File Name: S0026001076

Bridge Inspection Field Sketch



Bent #	1	Bents 1,2, End Bents 1,2 similar
Cap - Beam Type (Wood or Steel)		
Cap Size	24ft Long	1ft Wide 0.958ft High
Left Overhang	1ft	Lt Cap/Beam Overhang
Right Overhang	1ft	Rt Cap/Beam Overhang

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	6		12 IN. DIA.		VERT.
2	Wood or Timber	Pile Bent	5		12 IN. DIA.		VERT.
3	Wood or Timber	Pile Bent	5		12 IN. DIA.		VERT.
4	Wood or Timber	Pile Bent	6		12 IN. DIA.		VERT.
5	Wood or Timber	Pile Bent			12 IN. DIA.		VERT.

8/19/15. ZSD

Title		Description	
SUBSTRUCTURE		SUBSTRUCTURE	
Bridge No: 410014	Drawn By: GLH	Date: 8/20/2013	File Name: S0026001077