



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **CHANGE TO STRUCTURE DATA; PRIORITY
MAINTENANCES; BOAT USED**

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 06/06/2018

DIVISION: 6 COUNTY: BLADEN STRUCTURE NUMBER: 080197 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1534 MILE POST:

LOCATION: 0.5 MI.N. OF JCT.SR1533

FEATURE INTERSECTED: KELLY CANAL

LATITUDE: 34° 29' 43.49" LONGITUDE: 78° 20' 36.43"

SUPERSTRUCTURE: PRESTRESSED CONCRETE CHANNELS

SUBSTRUCTURE: E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ 5'8 CTS.

SPANS: 2 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTION

GRADES: DECK 7 SUPERSTRUCTURE 5 SUBSTRUCTURE 6 CULVERT N

POSTED SV: 24 POSTED TTST: 32

OTHER SIGNS PRESENT: (4) DELINEATORS



SOUTH APPROACH 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>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS NO PLANS

INSPECTED BY
David Clayton

SIGNATURE

ASSISTED BY Carl Larson

Structure Element Scoring

Structure Number: **080197**

Inspection Date **6/6/2018**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
15	0	Prestressed Concrete Top Flange	Beam	1560	1560	0	0	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	620	536	33	51	0
216	0	Timber Abutment	Abutments	72	72	0	0	0
228	0	Timber Pile	Piles and Columns	15	13	0	2	0
233	0	Prestressed Concrete Pier Cap	Caps	78	78	0	0	0
301	0	Pourable Joint Seal	Expansion Joints	25	25	0	0	0
330	0	Metal Bridge Railing	Bridge Rail	124	124	0	0	0
515	330	Steel Protective Coating	Bridge Rail	124	124	0	0	0
510	0	Wearing Surface	Wearing Surfaces	1470	992	0	478	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 080197

Inspection Date: 06/06/2018

MMS Code	Element Name	Defect Name	Recommended Quantity
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	69 Feet
3306	Prestressed Concrete Open Girder/Bear	Patched Area	2 Feet
3344	Timber Pile	Decay/Section Loss	8 Each
2816	Wearing Surface	Crack (Wearing Surface)	478 Square Feet

Element Structure Maintenance Quantities

Structure Number: 080197

Inspection Date 06/06/2018

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	0	72	0	0	0	72
Beam	3306	Maintenance Concrete Superstructure Components	71	620	0	51	33	536
Beam	3326	Maintenance of Concrete Deck	0	1560	0	0	0	1560
Bridge Rail	3322	Maintenance of Steel Bridge Rail	0	124	0	0	0	124
Bridge Rail	3342	Clean and Paint Steel	0	124	0	0	0	124
Caps	3348	Maintenance of Concrete Substructure	0	78	0	0	0	78
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	25	0	0	0	25
Piles and Columns	3344	Maintenance To Timber Substrcutre	8	15	0	2	0	13
Wearing Surfaces	2816	Asphalt Surface Repair	478	1470	0	478	0	992

Element Condition and Maintenance Data

Structure Number: 080197

Inspection Date: 06/06/2018

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	735	496	0	239	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	FULL WIDTH X 1/8" WIDE TRANSVERSE CRACK AT END BENT 1	3	25	25	Square Feet
510	Crack (Wearing Surface)	INTERMITTENT FULL LENGTH X UP TO 1/4" WIDE SEALED LONGITUDINAL CRACKS WITH SOME EXTRUDED	3	214	214	Square Feet

General Comments

Span 1 Slab 5

Prestressed Concrete Channel

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Cracking (PSC)	8" LONG X 1/32" WIDE HORIZONTAL CRACK ALONG THE EAST FACE OF THE RIGHT LEG AT MIDSPAN	3	1		Feet

General Comments

Span 1 Slab 7

Prestressed Concrete Channel

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	27	3	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Patched Area	1' LONG X 6" HIGH CRACKED PATCH AREA ALONG THE WEST FACE OF THE RIGHT LEG AT BENT 1	3	1	1	Feet
109	Delamination/Spall	(2) - 6" DIAMETER SPALLED AREAS WITH A HAIRLINE HORIZONTAL CRACK UP TO 9" LONG AND EXPOSED REINFORCEMENT ALONG THE WEST FACE OF THE LEFT LEG, 1'-4" FROM BENT 1 (PRIORITY MAINTENANCE)	2	2		Feet
109	Delamination/Spall	6" LONG X 4" HIGH X 1/4" DEEP SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG THE EAST FACE OF THE RIGHT LEG AT MIDSPAN (PRIORITY MAINTENANCE)	2	1	1	Feet

General Comments

Span 1**Slab 8****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	26	4	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	6" LONG X 1" HIGH X 2" WIDE SPALLED AREA ALONG THE WEST CORNER OF LEFT LEG, 6' FROM BENT 1 (PRIORITY MAINTENANCE)	3	1	1 Feet
109	Delamination/Spall	(2) - 6" DIAMETER SPALLED AREAS WITH A HAIRLINE HORIZONTAL CRACK UP TO 9" LONG ALONG THE WEST FACE OF THE LEFT LEG, 4' FROM BENT 1	2	2	Feet
109	Delamination/Spall	1" DIAMETER SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG THE BOTTOM OF THE LEFT LEG AT MIDSPAN (PRIORITY MAINTENANCE)	2	1	1 Feet
109	Delamination/Spall	2" DIAMETER SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG THE BOTTOM OF THE RIGHT LEG, 2'-6" FROM BENT 1 (PRIORITY MAINTENANCE)	2	1	1 Feet

General Comments**Span 1****Slab 9****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Patched Area	1' LONG X FULL WIDTH FAILED PATCH AREA WITH A LONGITUDINAL CRACK 9" LONG X 1/32" WIDE ALONG THE WEST FACE OF THE RIGHT LEG AT BENT 1	3	1	1 Feet

General Comments**Span 2****Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	735	496	0	239	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	FULL WIDTH X 1/8" WIDE TRANSVERSE CRACK AT END BENT 1	3	25	25 Square Feet
510	Crack (Wearing Surface)	INTERMITTENT FULL LENGTH X UP TO 1/4" WIDE SEALED LONGITUDINAL CRACKS WITH SOME EXTRUDED	3	214	214 Square Feet

General Comments

Slab 3

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	29	2	0	0	Feet

General Comments

Slab 4

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	1	0	0	Feet

General Comments

Slab 6

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	0	0	31	0	Feet

General Comments

Span 2**Slab 7****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	11	14	6	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	2'-6" LONG X FULL WIDTH X 4" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG, 5'-11" FROM END BENT 2 (PRIORITY MAINTENANCE)	3		3 Feet
109	Delamination/Spall	5'-10" LONG X FULL WIDTH X 4" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE LEFT LEG, 4'-11" FROM END BENT 2 (PRIORITY MAINTENANCE)	3	6	6 Feet
109	Delamination/Spall	2" DIAMETER X 1" DEEP POP OUT SPALL WITH EXPOSED PRESTRESSING STRAND ALONG THE WEST FACE OF THE LEFT LEG, 7' FROM BENT 1 (PRIORITY MAINTENANCE)	2	1	1 Feet
109	Delamination/Spall	5" DIAMETER X 1/4" DEEP SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE WEST FACE OF THE LEFT LEG AT BENT 1 (PRIORITY MAINTENANCE)	2	1	1 Feet
109	Delamination/Spall	5'-3" LONG X 3" HIGH X FULL WIDTH DELAMINATED AREA ALONG THE EAST FACE OF THE RIGHT LEG AT MIDSPAN	2	6	Feet
109	Patched Area	3' LONG X 4" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE LEFT LEG, 4'-6" FROM BENT 1	2	3	Feet
109	Patched Area	3'-10" LONG X 4" HIGH X 2" WIDE CONCRETE REPAIR ALONG THE LEFT LEG, 1'-7" FROM END BENT 2	2	3	Feet

General Comments**Span 2****Slab 8****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	13	9	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	2'-8" LONG X FULL WIDTH X 4" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE LEFT LEG, 7'-10" FROM END BENT 2 (PRIORITY MAINTENANCE)	3	3	3 Feet
109	Delamination/Spall	3'-3" LONG X FULL WIDTH X 5" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG, 2'-8" FROM END BENT 2 (PRIORITY MAINTENANCE)	3	4	4 Feet
109	Delamination/Spall	5" LONG X FULL WIDTH X 2" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG AT END BENT 2 (PRIORITY MAINTENANCE)	3	1	1 Feet
109	Delamination/Spall	7" LONG X 2" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG WEST FACE OF THE RIGHT LEG, 1'-2" FROM END BENT 2 (PRIORITY MAINTENANCE)	3	1	1 Feet
109	Cracking (PSC)	4' LONG X HAIRLINE HORIZONTAL CRACK ALONG THE RIGHT LEG AT BENT 1	2	4	Feet
109	Delamination/Spall	8" DIAMETER DELAMINATED AREA ALONG THE EAST FACE OF THE LEFT LEG, 1'-6" FROM BENT 1	2		Feet
109	Patched Area	1' LONG X 6" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE LEFT LEG AT BENT 1	2	1	Feet
109	Patched Area	1'-9" LONG X 2-1/2" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE RIGHT LEG AT BENT 1	2		Feet
109	Patched Area	3'-6" LONG X 4" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE RIGHT LEG, 2'-6" FROM BENT 1	2	4	Feet

General Comments

Span 2**Slab 10****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Delamination/Spall	11" LONG X 5" HIGH X 1/4" DEEP SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG WEST FACE OF THE RIGHT LEG	3	1	1	Feet

General Comments

Bent 1**Pile 3****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	1'-4" HIGH X 4" WIDE X 1" DEEP DECAYED AREA ALONG THE NORTH FACE WITH 1" DEEP DECAYED AREA ALONG THE SOUTH FACE (PRIORITY MAINTENANCE)	3	1	2	Each
228	Decay/Section Loss	4" WIDE X 7" HIGH X 2" DEEP DECAYED AREA ALONG THE SOUTH FACE, 4" ABOVE THE WATER LINE (PRIORITY MAINTENANCE)	3		1	Each

General Comments

Bent 1**Pile 5****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	4'-7" HIGH X FULL WIDTH X FULL CIRCUMFERENCE X UP TO 8" DEEP DECAY WITH A 10" HIGH X 1'-6" DEEP HOLE ALONG THE NORTH FACE, 11" ABOVE THE WATER LINE (PRIORITY MAINTENANCE)	3	1	5	Each

General Comments

Elements Verified

[illegible]

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Bent 1 Joint	Standard Joint	Pourable Joint Seal	25
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	735
Bent 1	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	26
Bent 1	Pile 1	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Pile	1
Bent 1	Pile 3	Timber Pile	Timber Pile	1
Bent 1	Pile 4	Timber Pile	Timber Pile	1
Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	26
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	36
End Bent 2	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	26
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Pile 3	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Pile 5	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	36

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 080197

Inspection Date: 06/06/2018

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	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	F	1470	3376
Drainage System	G, F, P, or C	F	122	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	6		
Superstructure Paint Code				

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	6
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: 080197

Inspection Date: 06/06/2018

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	1470
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Details INTERMITTENT FULL LENGTH X 2' WIDE DECK DEBRIS ALONG BOTH BRIDGE RAILS

Item	Drainage System	Grade	F	Maint Code	3332	Qty.	122
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Details DRAINS ARE CLOGGED ALONG BOTH BRIDGE RAILS

Item	Wingwalls	Grade	G	Maint Code	3350	Qty.	0
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Details 1'-3" LONG X 2" HIGH X 2" DEEP DECAY ALONG THE NORTHWEST WINGWALL, ADJACENT TO PILE 1
INTERMITTENT FULL LENGTH X FULL WIDTH X UP TO 1" DEEP DECAY ALONG THE TOP EDGE OF ALL THE
WINGWALLS

SOLDIER PILES

SUFACE RUST ALONG ALL OF THE SOLDIER PILE CAPS

DECAYED AREA AT THE EAST END SOLDIER PILE AT THE NORTHWEST WINGWALL, ADJACENT TO THE CAP

Item	General Comments and Misc Items	Grade		Maint Code		Qty.	0
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Details APPROACH
9' LONG X 1/8" WIDE X UP TO 1/2" WIDE TRANSVERSE CRACK IN THE NORTHBOUND LANE AT THE NORTH
APPROACH, 1' FROM END BENT 2
9' LONG X 1/8" WIDE X UP TO 1/2" WIDE TRANSVERSE CRACK IN THE NORTHBOUND LANE AT THE SOUTH
APPROACH, 1' FROM END BENT 1

CAP

WATER STAINING ALONG ALL CAPS DUE TO WATER LEAKAGE BETWEEN ALL CHANNEL UNITS



Span 2 Slab 6: 6'-2" LONG DELAMINATED AREA AND 3'-2" LONG X FULL WIDTH X 3-1/2" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE LEFT LEG NEAR MID SPAN (PRIORITY MAINTENANCE)



Span 2 Slab 6: 3'-4" LONG X FULL WIDTH X 3" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE LEFT LEG 3'-4" FROM END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 6: 1' LONG X FULL WIDTH X 4" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG AT MIDSPAN (PRIORITY MAINTENANCE)



Span 2 Slab 6: 25' LONG X FULL WIDTH X 3-1/2" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG, 5'-5" FROM END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 7: 5'-10" LONG X FULL WIDTH X 4" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE LEFT LEG, 4'-11" FROM END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 7: 2'-6" LONG X FULL WIDTH X 4" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG, 5'-11" FROM END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 8: 2'-8" LONG X FULL WIDTH X 4" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE LEFT LEG, 7'-10" FROM END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 8: 5" LONG X FULL WIDTH X 2" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG AT END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 8: 7" LONG X 2" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG WEST FACE OF THE RIGHT LEG, 1'-2" FROM END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 8: 3'-3" LONG X FULL WIDTH X 5" HIGH SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE RIGHT LEG, 2'-8" FROM END BENT 2 (PRIORITY MAINTENANCE)



Span 2 Slab 7: 2" DIAMETER X 1" DEEP SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE WEST FACE OF THE LEFT LEG, 7' FROM BENT 1 (PRIORITY MAINTENANCE)



Span 2 Slab 7: 5" DIAMETER X 1/4" DEEP SPALLED AREA WITH EXPOSED PRESTRESSING STRAND ALONG THE WEST FACE OF THE LEFT LEG AT BENT 1 (PRIORITY MAINTENANCE)



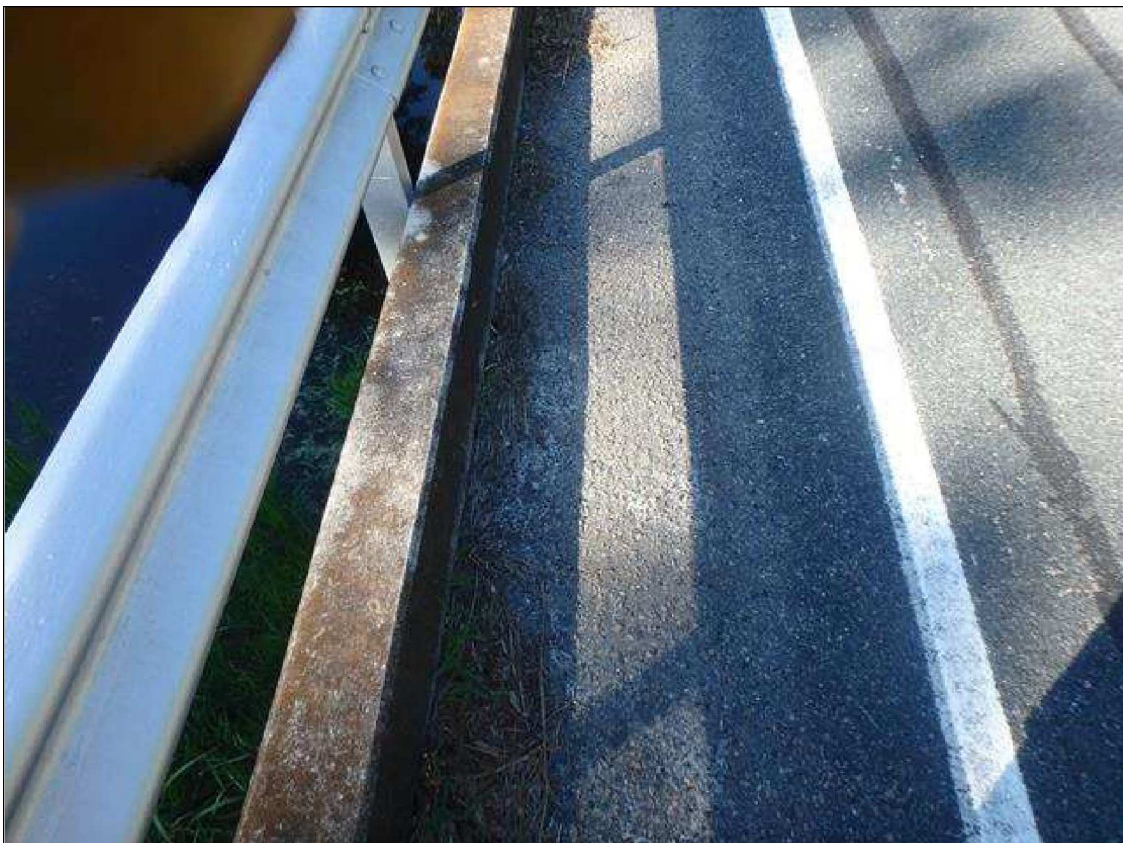
Bent 2 Pile 5: 4'-7" HIGH X FULL WIDTH X FULL CIRCUMFERENCE X UP TO 8" DEEP DECAY WITH A 10" HIGH X 1'-6" DEEP HOLE ALONG THE NORTH FACE, 11" ABOVE THE WATER LINE (PRIORITY MAINTENANCE)



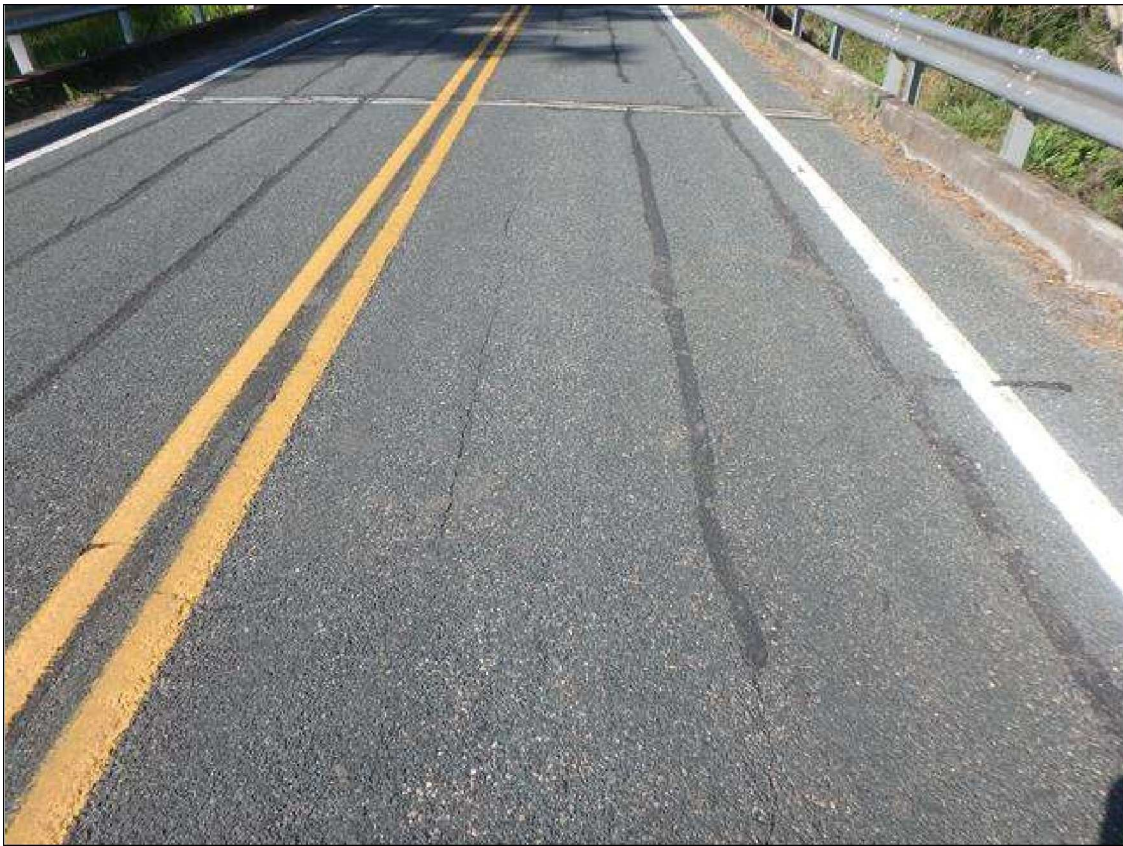
Approach: 9' LONG X 1/8" WIDE X UP TO 1/2" WIDE TRANSVERSE CRACK IN THE NORTHBOUND LANE AT THE NORTH APPROACH, 1' FROM END BENT 2 (SOUTH SIMILAR)



Span 2 Right Bridge Rail: 1' LONG X 2" WIDE PEELING PAINT, 1' FROM END BENT 2



Deck Debris: INTERMITTENT FULL LENGTH X 2' WIDE DECK DEBRIS ALONG THE EAST BRIDGE RAIL (WEST SIMILAR)



Span 2 Wearing Surface: INTERMITTENT FULL LENGTH X UP TO 1/4" WIDE SEALED LONGITUDINAL CRACKS WITH SOME EXTRUDED (SPAN 1 SIMILAR)



Wingwall: SUFACE RUST ALONG ALL OF THE WEST END SOLDIER PILE CAP ALONG THE NORTHWEST WINGWALL (OTHERS SIMILAR)



Wingwall: 1'-3" LONG X 2" HIGH X 2" DEEP DECAY ALONG THE NORTHWEST WINGWALL, ADJACENT TO PILE 1



Span 2 Slab 7: 3'-10" LONG X 4" HIGH X 2" WIDE CONCRETE REPAIR ALONG THE LEFT LEG, 1'-7" FROM END BENT 2



Span 2 Slab 3: (2) - 6" LONG X 2" HIGH X 1" WIDE SPALLED AREAS ALONG THE LEFT LEG AT MIDSPAN AND 7' FROM BENT 1



Span 2 Slab 6: 2' LONG X 2" HIGH X FULL WIDTH DELAMINATED AREA ALONG THE RIGHT LEG, 4'-8" FROM BENT 1



Span 2 Slab 8: 3'-6" LONG X 4" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE RIGHT LEG, 2'-6" FROM BENT 1



Span 2 Slab 7: 3' LONG X 4" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE LEFT LEG, 4'-6" FROM BENT 1



Span 2 Slab 8: 1'-9" LONG X 2-1/2" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE RIGHT LEG AT BENT 1



Span 2 Slab 8: 1' LONG X 6" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE LEFT LEG AT BENT 1



Span 2 Slab 10: 11" LONG X 5" HIGH X 1/4" DEEP SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG WEST FACE OF THE RIGHT LEG



Span 2 Slab 6: 1'-4" LONG X 4" HIGH X FULL WIDTH DELAMINATED AREA ALONG THE LEFT LEG AT BENT 1



Span 2 Slab 7: 5'-3" LONG X 3" HIGH X FULL WIDTH DELAMINATED AREA ALONG THE EAST FACE OF THE RIGHT LEG AT MIDSPAN



Span 2 Slab 4: 1' LONG X 5" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE EAST FACE OF THE RIGHT LEG AT BENT 1



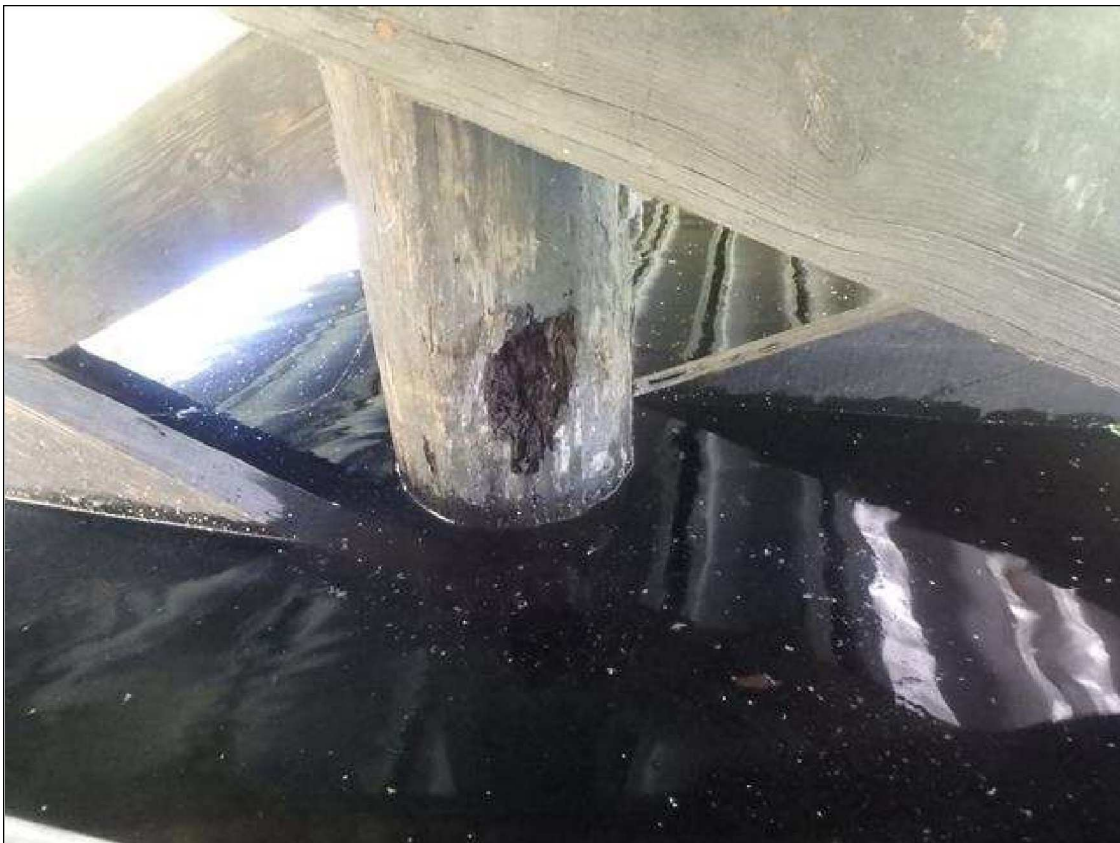
Span 2 Slab 6: 1' LONG X 4" HIGH X FULL WIDTH CONCRETE REPAIR ALONG THE WEST FACE OF THE RIGHT LEG AT BENT 1



Span 1 Slab 9: 1' LONG X FULL WIDTH FAILED PATCH AREA WITH A LONGITUDINAL CRACK 9" LONG X 1/32" WIDE ALONG THE WEST FACE OF THE RIGHT LEG AT BENT 1



Bent 1 Pile 3: 1'-4" HIGH X 4" WIDE X 1" DEEP DECAYED AREA ALONG THE NORTH FACE WITH 1" DEEP DECAYED AREA ALONG THE SOUTH FACE (PRIORITY MAINTENANCE)



Bent 1 Pile 3: 4" WIDE X 7" HIGH X 2" DEEP DECAYED AREA ALONG THE SOUTH FACE, 4" ABOVE THE WATER LINE (PRIORITY MAINTENANCE)



Span 1 Slab 7: 1' LONG X 6" HIGH CRACKED PATCH AREA ALONG THE WEST FACE OF THE RIGHT LEG AT BENT 1



Span 1 Slab 7: (2) - 6" DIAMETER SPALLED AREAS WITH A HAIRLINE HORIZONTAL CRACK UP TO 9" LONG AND EXPOSED REINFORCEMENT ALONG THE WEST FACE OF THE LEFT LEG, 1'-4" FROM BENT 1 (PRIORITY MAINTENANCE)



Span 1 Slab 7: (2) - 6" DIAMETER SPALLED AREAS WITH A HAIRLINE HORIZONTAL CRACK UP TO 9" LONG AND EXPOSED REINFORCEMENT ALONG THE WEST FACE OF THE LEFT LEG, 1'-4" FROM BENT 1 (PRIORITY MAINTENANCE)



Span 1 Slab 8: (2) - 6" DIAMETER SPALLED AREAS WITH A HAIRLINE HORIZONTAL CRACK UP TO 9" LONG ALONG THE WEST FACE OF THE LEFT LEG, 4' FROM BENT 1



Span 1 Slab 8: 6" LONG X 1" HIGH X 2" WIDE SPALLED AREA ALONG THE WEST CORNER OF LEFT LEG, 6' FROM BENT 1 (PRIORITY MAINTENANCE)



Span 1 Slab 8: 2" DIAMETER SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG THE BOTTOM OF THE RIGHT LEG, 2'-6" FROM BENT 1 (PRIORITY MAINTENANCE)



Span 1 Slab 8: 1" DIAMETER SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG THE BOTTOM OF THE LEFT LEG AT MIDSPAN (PRIORITY MAINTENANCE)



Span 1 Slab 7: 6" LONG X 4" HIGH X 1/4" DEEP SPALLED AREA WITH EXPOSED REINFORCEMENT ALONG THE EAST FACE OF THE RIGHT LEG AT MIDSPAN (PRIORITY MAINTENANCE)



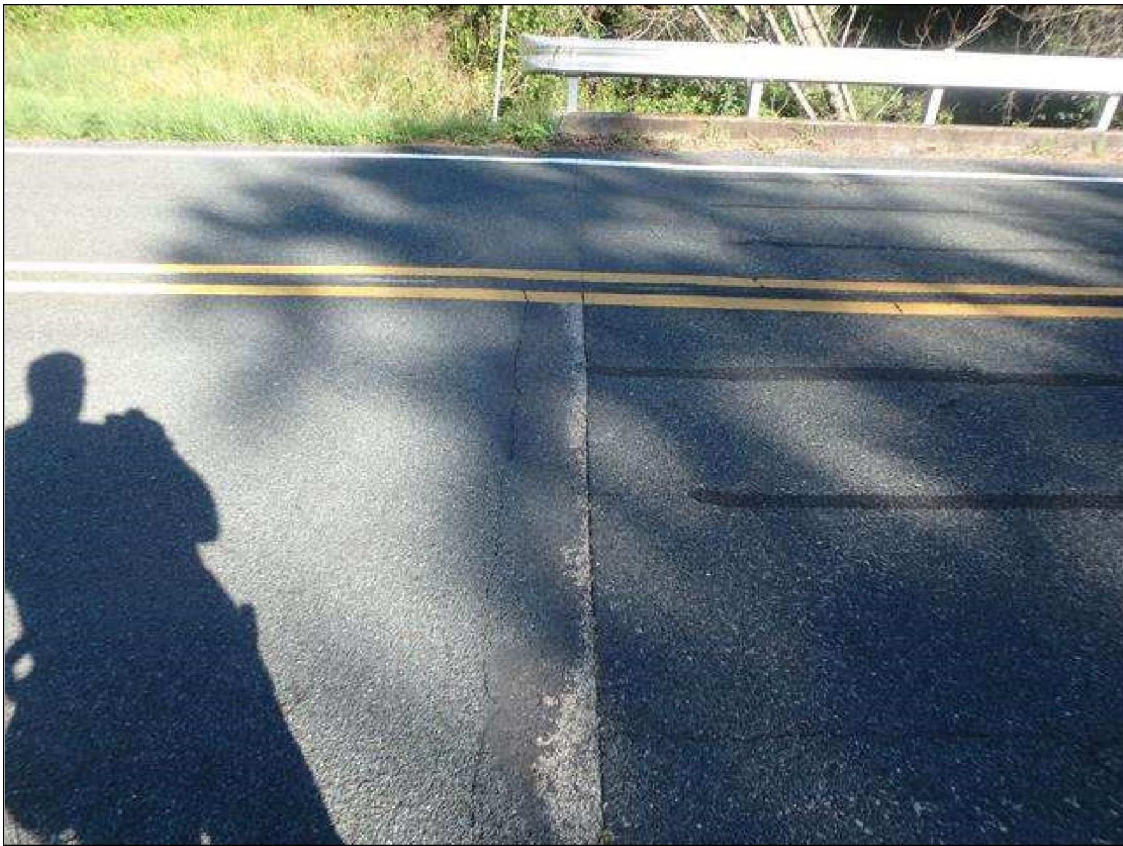
Span 1 Slab 5: 8" LONG X 1/32" WIDE HORIZONTAL CRACK ALONG THE EAST FACE OF THE RIGHT LEG AT MIDSPAN



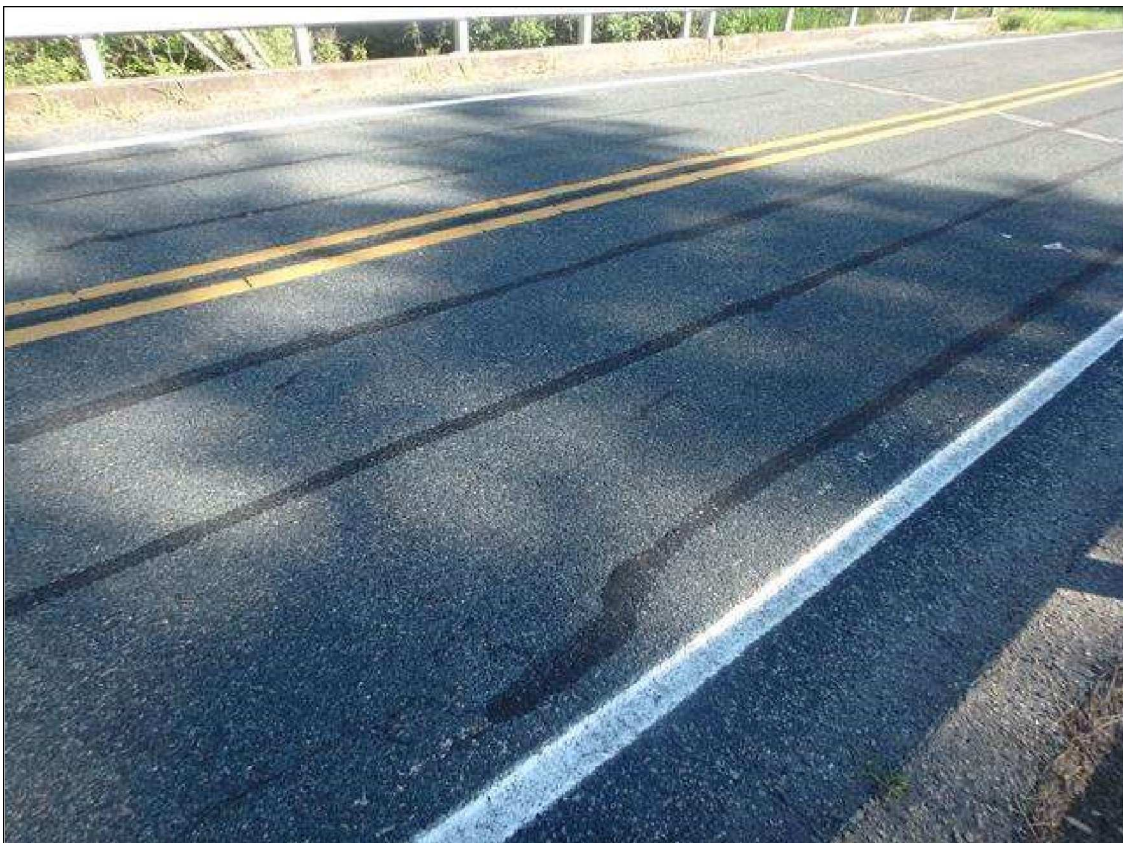
SOUTH APPROACH LOOKING NORTH



SOUTHEAST POSTING SIGN (NORTHWEST SIMILAR)



END BENT 1 JOINT



SPAN 1 ASPHALT WEARING SURFACE (SPAN 2 SIMILAR)



WEST BRIDGE RAIL (EAST SIMILAR)



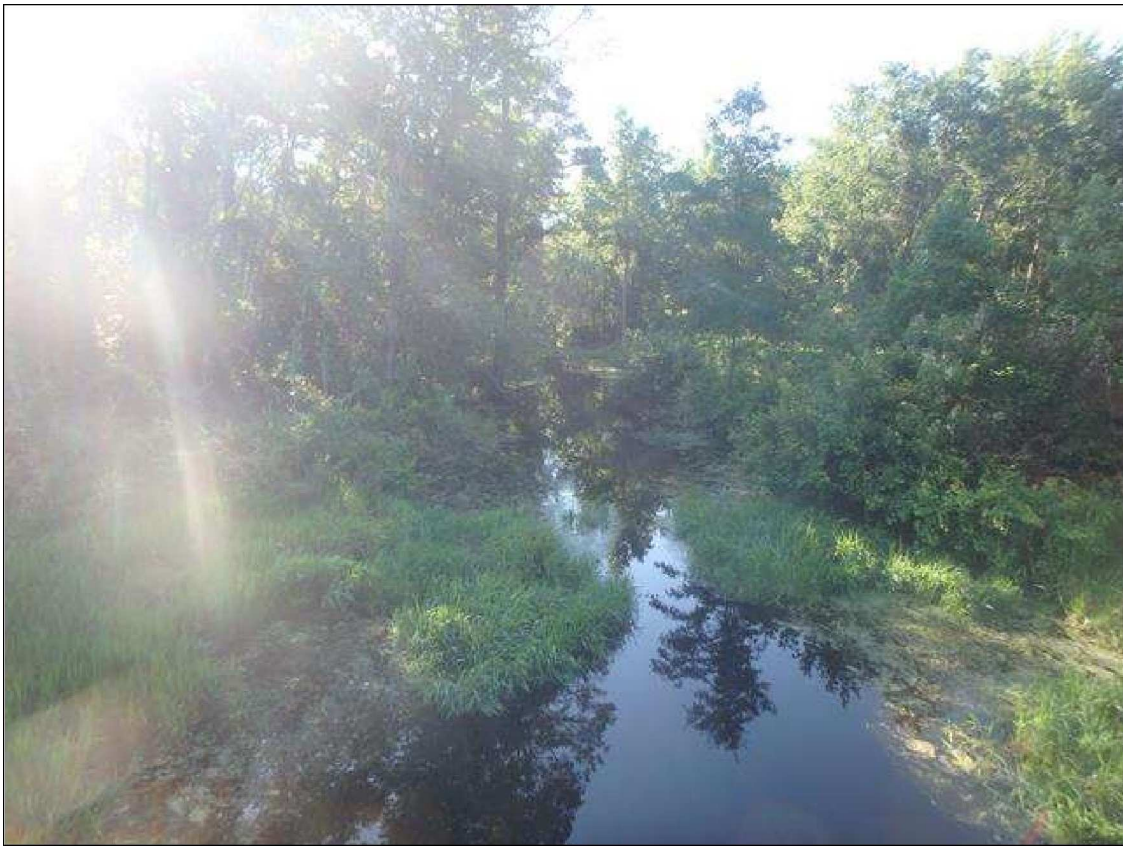
BENT 1 JOINT



END BENT 2 JOINT



NORTH APPROACH LOOKING SOUTH



LOOKING DOWNSTREAM (EAST)



LOOKING UPSTREAM (WEST)



SOUTHEAST BRIDGE RAIL END TREATMENT (OTHERS SIMILAR)



WEST ELEVATION



EAST ELEVATION



BENT 1 ELEVATION



SPAN 2 SUPERSTRUCTURE



NORTHEAST WINGWALL (OTHERS SIMILAR)



END BENT 1 ELEVATION



SPAN 1 SUPERSTRUCTURE



CONCRETE COLLAR REPAIR FOR PILE 5 AT END BENT 2



END BENT 2 ELEVATION



BAY 4 END DIAPHRAGM AT END BENT 2 (OTHERS SIMILAR)

Stream Bed Soundings

(Profile diagram on following sheet)

County **BLADEN**

Structure Number: **080197**

Inspection Date **06/07/2018**

Sounding recorded from: **Top of Bridge Rail**

Highwater Mark Distance

Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.900	0.000	TOP OF BULKHEAD
0.300	2.900	0.000	TOP OF BULKHEAD
0.310	4.400	0.000	TOP OF CAP
1.300	4.400	0.000	TOP OF CAP
1.310	7.200	7.300	FACE OF CAP (END BENT 1)
10.000	9.200	0.000	GROUND
13.000	10.000	0.000	WATER SURFACE / WATER EDGE (WSWE)
20.000	12.800	0.000	STREAMBED
25.000	12.700	0.000	STREAMBED
30.500	12.400	17.900	BENT 1
40.000	12.300	0.000	STREAMBED
46.500	11.900	0.000	STREAMBED
50.000	9.900	0.000	WATER SURFACE / WATER EDGE (WSWE)
55.000	8.300	0.000	GROUND
59.699	7.700	6.600	FACE AT CAP (END BENT 2)
59.700	4.300	0.000	TOP OF CAP
60.699	4.300	0.000	TOP OF CAP
60.700	2.800	0.000	TOP OF BULKHEAD
61.000	2.800	0.000	TOP OF BULKHEAD

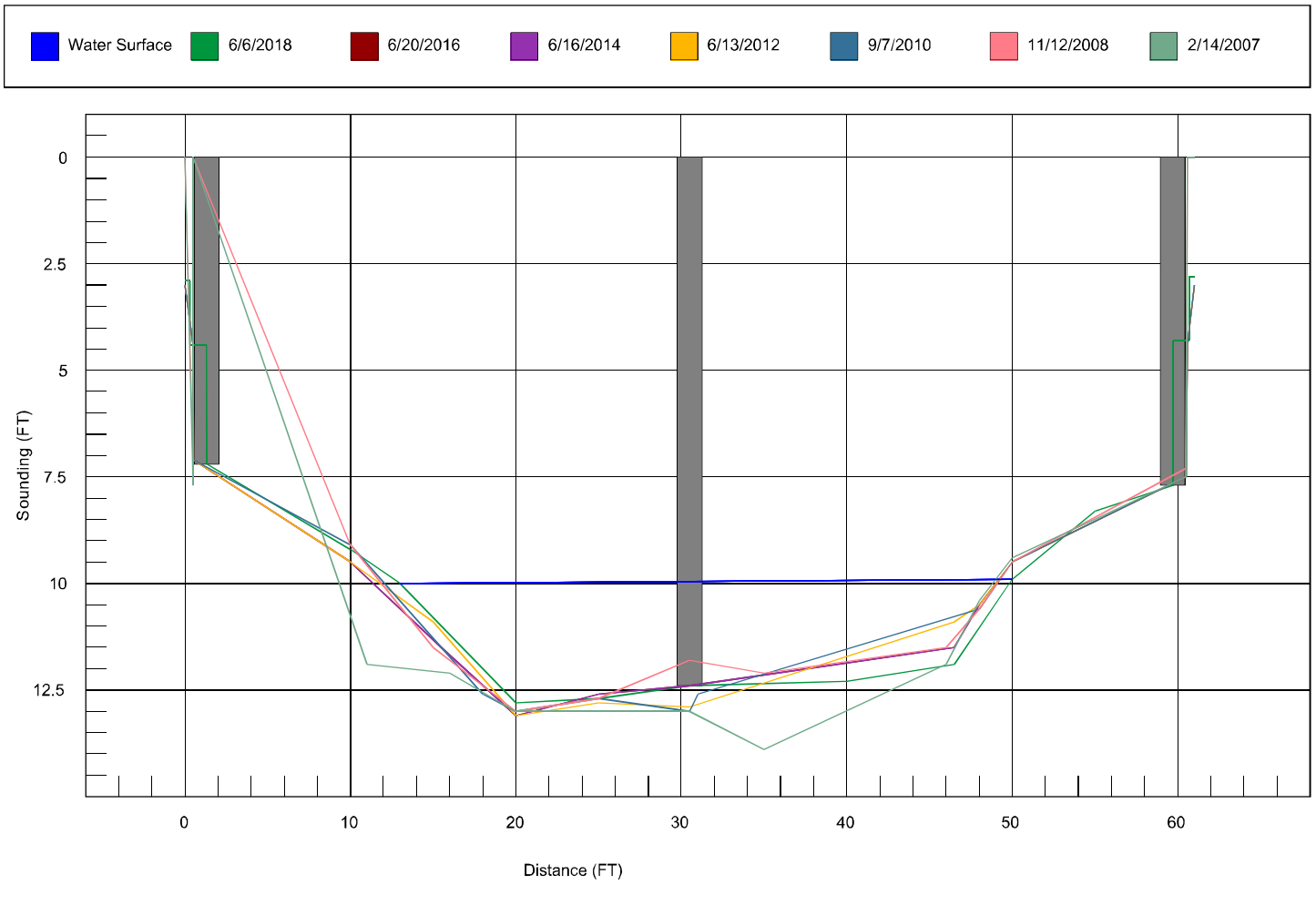
Bridge: 080197

County: BLADEN

Date: 06/06/2018

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

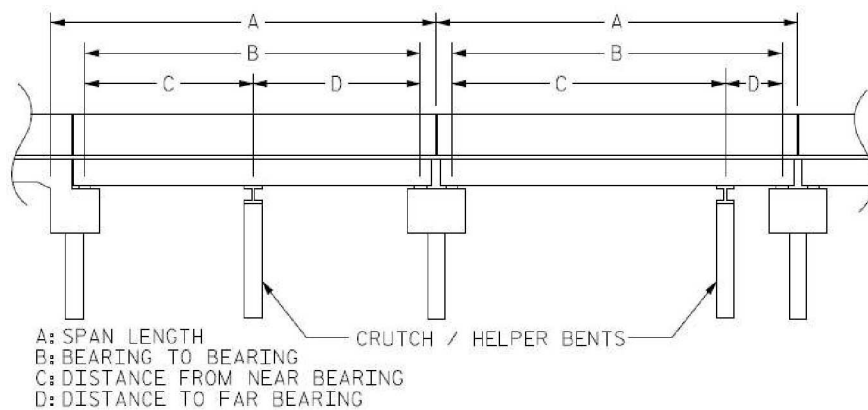


Structure Data Worksheet

Span Profile

County: **BLADEN**

Structure Number: **080197**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	30.500	29.833			
2	30.500	29.833			