



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE, STRUCTURE DATA
WORKSHEET REVISED, APPROACH ROADWAY
SKETCH REVISED, SUPERSTRUCTURE 2 SKETCH
ADDED, NEWLY STRUCTURE DEFICIENT

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 02/08/2018

DIVISION: 6 COUNTY: CUMBERLAND STRUCTURE NUMBER: 250044 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR2030 MILE POST: _____

LOCATION: 0.1 MI.N.JCT.SR2028

FEATURE INTERSECTED: SANDY CREEK

LATITUDE: 34° 59' 7.06" LONGITUDE: 78° 38' 37.78"

SUPERSTRUCTURE: RC FLOOR ON TIMBER JOISTS, STD BMD-10MR

SUBSTRUCTURE: EBTS&BTS:TIMBER CAPS ON TIMBER PILES @ VAR.CTS.

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

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

GRADES: DECK 5 SUPERSTRUCTURE 4 SUBSTRUCTURE 6 CULVERT N

POSTED SV: 22 POSTED TTST: 33 31

OTHER SIGNS PRESENT: (4) DELINEATORS



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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

SOUTH APPROACH

INSPECTED BY JOSH B. WHITE, PE	SIGNATURE <i>J. B. White</i>	ASSISTED BY JWD
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Structure Element Scoring

Structure Number: **250044**

Inspection Date **2/8/2018**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	1042	0	1006	36	0
15	0	Prestressed Concrete Top Flange	Beam	1815	1815	0	0	0
104	0	Prestressed Concrete Closed Web/Box Gir	Beam	605	605	0	0	0
111	0	Timber Open Girder/Beam	Beam	874	835	22	17	0
216	0	Timber Abutment	Abutments	62	62	0	0	0
228	0	Timber Pile	Piles and Columns	15	15	0	0	0
235	0	Timber Pier Cap	Caps	93	93	0	0	0
301	0	Pourable Joint Seal	Expansion Joints	0	0	0	0	0
310	0	Elastomeric Bearing	Bearing Device	22	22	0	0	0
321	0	Reinforced Concrete Approach Slabs	Approaches	390	390	0	0	0
330	0	Metal Bridge Railing	Bridge Rail	72	72	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 250044

Inspection Date: 02/08/2018

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	644 Square Feet
3304	Timber Open Girder/Beam	Damage	3 Feet
3304	Timber Open Girder/Beam	Decay/Section Loss	17 Feet

Element Structure Maintenance Quantities

Structure Number: **250044**

Inspection Date **02/08/2018**

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	62	0	0	0	62
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	0	390	0	0	0	390
Beam	3304	Maintenance of Timber of Superstructure Components	20	874	0	17	22	835
Beam	3306	Maintenance Concrete Superstructure Components	0	605	0	0	0	605
Beam	3326	Maintenance of Concrete Deck	0	1815	0	0	0	1815
Bearing Device	3334	Bridge Bearing	0	22	0	0	0	22
Bridge Rail	3322	Maintenance of Steel Bridge Rail	0	72	0	0	0	72
Caps	3344	Maintenance To Timber Substrcutre	0	93	0	0	0	93
Deck	3326	Maintenance of Concrete Deck	644	1042	0	36	1006	0
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	0	0	0	0	0
Piles and Columns	3344	Maintenance To Timber Substrcutre	0	15	0	0	0	15

Element Condition and Maintenance Data

Structure Number: **250044**

Inspection Date: **02/08/2018**

Span 1

Beam 2

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	165	165	0	0	0 Square Feet
104	Prestressed Concrete Closed Web/Box Girder	55	55	0	0	0 Feet
111	Timber Open Girder/Beam	19	17	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	FULL HEIGHT X FULL WIDTH X 15" DEEP DECAY ON BEAM END OVER BENT 1	3	2	2 Feet

General Comments

Span 1

Beam 5

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	165	165	0	0	0 Square Feet
104	Prestressed Concrete Closed Web/Box Girder	55	55	0	0	0 Feet
111	Timber Open Girder/Beam	19	18	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Damage	IMPACT DAMAGE TO BEAM END OVER BENT 1	2	1	1 Feet

General Comments

JOIST HAS BEEN REPLACED

Span 1

Beam 6

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	165	165	0	0	0 Square Feet
104	Prestressed Concrete Closed Web/Box Girder	55	55	0	0	0 Feet
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	10" X 3" X 6" DEEP DECAY ON TOP RIGHT OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments

Span 1

Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	521	0	503	18	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	1/8" LONGITUDINAL CRACK IN SOUTH BOUND LANE	3	18	18 Square Feet

Structure Number: **250044**Inspection Date: **02/08/2018**

12	Cracking (RC and Other)	1/16" TRANSVERSE AND LONGITUDINAL CRACKING IN TOPSIDE	2	100	100	Square Feet
12	Cracking (RC and Other)	SCALING WITH 1/64" MAP CRACKING THROUGHOUT	2	403	403	Square Feet

General Comments**Span 1****Beam 14****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Damage	IMPACT DAMAGE TO BEAM END OVER BENT 1	2	1	1 Feet

General Comments

JOIST HAS BEEN REPLACED

Span 1**Beam 15****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	2 1/2" X 4" X 3" DEEP DECAY ON TOP RIGHT OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments**Span 1****Beam 16****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	17	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	3" TALL AT BOTTOM X 2" WIDE AT TOP DECAY IN AN "L" SHAPE ON LEFT SIDE OF BEAM END OVER BENT 1 THAT IS 15" DEEP	3	2	2 Feet

General Comments**Span 1****Beam 18****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	19	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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General Comments

JOIST HAS BEEN REPLACED

Span 1**Beam 19****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	19	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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General Comments

JOIST HAS BEEN REPLACED

Span 1**Beam 20****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Damage	IMPACT DAMAGE TO BEAM END OVER BENT 1	2	1	1 Feet

General Comments

JOIST HAS BEEN REPLACED

Span 1**Beam 23****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	19	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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General Comments

JOIST HAS BEEN REPLACED

Span 2**Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	521	0	503	18	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	1/8" LONGITUDINAL CRACK IN NORTH BOUND LANE	3	18	18 Square Feet
12	Abrasion/Wear (PSC/RC)	SCALING WITH 1/64" MAP CRACKING THROUGHOUT	2	398	Square Feet
12	Cracking (RC and Other)	1/16" TRANSVERSE AND LONGITUDINAL CRACKING IN TOPSIDE	2	105	105 Square Feet

General Comments

Span 2**Beam 2****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	6" X 2 1/2" X 3" DEEP DECAY ON LEFT SIDE OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments

Span 2**Beam 3****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	3" X FULL WIDTH X 12" DEEP DECAY ON LEFT SIDE OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments

Span 2**Beam 5****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	4" CORE REMAINS ON LAST 8" OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments

Span 2**Beam 6****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	2" X FULL WIDTH X 2" DEEP DECAY ON TOP OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments

Span 2**Beam 7****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **250044**Inspection Date: **02/08/2018**

111	Decay/Section Loss	2 1/2" X FULL WIDTH X 1' DEEP DECAY ON BOTTOM OF BEAM END OVER BENT 1	3	1	1 Feet
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General Comments**Span 2** **Beam 8****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	4 1/2" X FULL WIDTH X 4" DEEP DECAY IN TOP OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments**Span 2** **Beam 10****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	3" X FULL WIDTH X 3" DEEP DECAY IN BOTTOM OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments**Span 2** **Beam 12****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	3" X FULL WIDTH X 3" DEEP DECAY ON TOP OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments**Span 2** **Beam 13****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	3" CORE REMAINS FOR LAST 10" OF BEAM END OVER BENT 1	3	1	1 Feet

General Comments

Span 2**Beam 16****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	2" WIDE AT TOP AND 2" TALL AT BOTTOM DECAY IN AN "L" SHAPE FOR 6" DEEP AT BEAM END OVER BENT 1	3	1	1 Feet

General Comments**Span 2****Beam 20****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	2" X 12" X 6" DEEP DECAY ON BEAM END OVER BENT 1	3	1	1 Feet

General Comments**Span 2****Beam 22****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	0	19	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Check/Shake	HEAVY CHECKING THROUGHOUT	2	19	Feet

General Comments**Span 2****Beam 23****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
111	Timber Open Girder/Beam	19	19	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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General Comments

JOIST HAS BEEN REPLACED

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	521
Span 1	Beam 1	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 1	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 1	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 2	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 2	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 2	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 3	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 3	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 3	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 4	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 4	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 4	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 5	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 5	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 5	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 6	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 6	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 6	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 7	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 7	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 7	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 8	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 8	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 8	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 9	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 9	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 9	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 10	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 10	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 10	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 11	Timber Joist	Prestressed Concrete Top Flange	165
Span 1	Beam 11	Timber Joist	Prestressed Concrete Closed Web/Box Girder	55
Span 1	Beam 11	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 12	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 13	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 14	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 15	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 16	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 17	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 18	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 19	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 20	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 21	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 22	Timber Joist	Timber Open Girder/Beam	19

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Beam 23	Timber Joist	Timber Open Girder/Beam	19
Span 1	Left Bridge Rail	Steel Rail	Metal Bridge Railing	18
Span 1	Left Bridge Rail	Steel Rail	Steel Protective Coating	1
Span 1	Right Bridge Rail	Steel Rail	Metal Bridge Railing	18
Span 1	Right Bridge Rail	Steel Rail	Steel Protective Coating	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	521
Span 2	Beam 1	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 2	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 3	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 4	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 5	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 6	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 7	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 8	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 9	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 10	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 11	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 12	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 13	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 14	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 15	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 16	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 17	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 18	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 19	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 20	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 21	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 22	Timber Joist	Timber Open Girder/Beam	19
Span 2	Beam 23	Timber Joist	Timber Open Girder/Beam	19
Span 2	Left Bridge Rail	Steel Rail	Metal Bridge Railing	18
Span 2	Left Bridge Rail	Steel Rail	Steel Protective Coating	1
Span 2	Right Bridge Rail	Steel Rail	Metal Bridge Railing	18
Span 2	Right Bridge Rail	Steel Rail	Steel Protective Coating	1
Span 2	Expansion Joint	Standard Joint	Steel Protective Coating	1
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	0
Bent 1	Cap 1	Timber Pier Cap	Reinforced Concrete Abutment	75
Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	31
Bent 1	Pile 1	Timber Pile	Reinforced Concrete Abutment	75
Bent 1	Pile 1	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Column	1
Bent 1	Pile 2	Timber Pile	Reinforced Concrete Column	1
Bent 1	Pile 3	Timber Pile	Reinforced Concrete Column	1
Bent 1	Pile 3	Timber Pile	Timber Pile	1
Bent 1	Pile 4	Timber Pile	Timber Pile	1

Elements Verified

Location	Name	Component	Element Name	Amount
Bent 1	Pile 4	Timber Pile	Prestressed Concrete Column	1
Bent 1	Pile 5	Timber Pile	Concrete Protective Coating	268
Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	31
End Bent 1	Cap 1	Timber Pier Cap	Reinforced Concrete Abutment	59
End Bent 1	Pile 1	Timber Pile	Reinforced Concrete Pier Cap	65
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Concrete Protective Coating	130
End Bent 1	Pile 3	Timber Pile	Concrete Protective Coating	177
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Concrete Protective Coating	177
End Bent 1	Pile 5	Timber Pile	Concrete Protective Coating	130
End Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	31
End Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	31
End Bent 2	Pile 1	Timber Pile	Concrete Protective Coating	113
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Concrete Protective Coating	113
End Bent 2	Pile 3	Timber Pile	Reinforced Concrete Abutment	60
End Bent 2	Pile 3	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Reinforced Concrete Abutment	60
End Bent 2	Pile 5	Timber Pile	Reinforced Concrete Abutment	69
End Bent 2	Pile 5	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	31
End Bent 2	Abutment	Timber Abutment	Reinforced Concrete Pier Cap	65

General Inspection Notes

Span 1 Beam 18
JOIST HAS BEEN REPLACED

Span 1 Beam 19
JOIST HAS BEEN REPLACED

Span 1 Beam 23
JOIST HAS BEEN REPLACED

Span 2 Beam 23
JOIST HAS BEEN REPLACED

National Bridge and NC Inspection Items

Structure Number: 250044

Inspection Date: 02/08/2018

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	4
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	1040	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
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			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	13		
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	8
Traffic Control Time	Hours	0
Snooper Time	Hours	0
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: 250044

Inspection Date: 02/08/2018

Item	Deck - Item 58	Grade	5	Maint Code		Qty.	0
Details	MANY LONGITUDINAL CRACKS UP TO 1/8" WIDE IN DECK WITH SCALING AND MAP CRACKING THROUGHOUT						
Item	Superstructure - Item 59	Grade	4	Maint Code		Qty.	0
Details	15 OUT OF 46 BEAMS HAVE AREAS OF ADVANCED DECAY PRIMARILY OVER THE INTERIOR BENT IN SPAN 2 ON LEFT SIDE						
Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	1040
Details	DEBRIS ALONG RAILS						



Span 1 Beam 16: 3" TALL AT BOTTOM X 2" WIDE AT TOP DECAY IN AN "L" SHAPE ON LEFT SIDE OF BEAM END OVER BENT 1 THAT IS 15" DEEP



Span 1 Beam 15: 2 1/2" X 4" X 3" DEEP DECAY ON TOP RIGHT OF BEAM END OVER BENT 1



Span 1 Beam 6: 10" X 3" X 6" DEEP DECAY ON TOP RIGHT OF BEAM END OVER BENT 1



Span 1 Beam 2: FULL HEIGHT X FULL WIDTH X 15" DEEP DECAY ON BEAM END OVER BENT 1



Span 2 Beam 2: 6" X 2 1/2" X 3" DEEP DECAY ON LEFT SIDE OF BEAM END OVER BENT 1



Span 2 Beam 3: 3" X FULL WIDTH X 12" DEEP DECAY ON LEFT SIDE OF BEAM END OVER BENT 1



Span 2 Beam 5: 4" CORE REMAINS ON LAST 8" OF BEAM END OVER BENT 1



Span 2 Beam 20: 2" X 12" X 6" DEEP DECAY ON BEAM END OVER BENT 1



Span 2 Beam 16: 2" WIDE AT TOP AND 2" TALL AT BOTTOM DECAY IN AN "L" SHAPE FOR 6" DEEP AT BEAM END OVER BENT 1



Span 2 Beam 13: 3" CORE REMAINS FOR LAST 10" OF BEAM END OVER BENT 1



Span 2 Beam 12: 3" X FULL WIDTH X 3" DEEP DECAY ON TOP OF BEAM END OVER BENT 1



Span 2 Beam 10: 3" X FULL WIDTH X 3" DEEP DECAY IN BOTTOM OF BEAM END OVER BENT 1



Span 2 Beam 8: 4 1/2" X FULL WIDTH X 4" DEEP DECAY IN TOP OF BEAM END OVER BENT 1



Span 2 Beam 7: 2 1/2" X FULL WIDTH X 1' DEEP DECAY ON BOTTOM OF BEAM END OVER BENT 1



Span 2 Beam 6: 2" X FULL WIDTH X 2" DEEP DECAY ON TOP OF BEAM END OVER BENT 1



DEBRIS ALONG RAILS



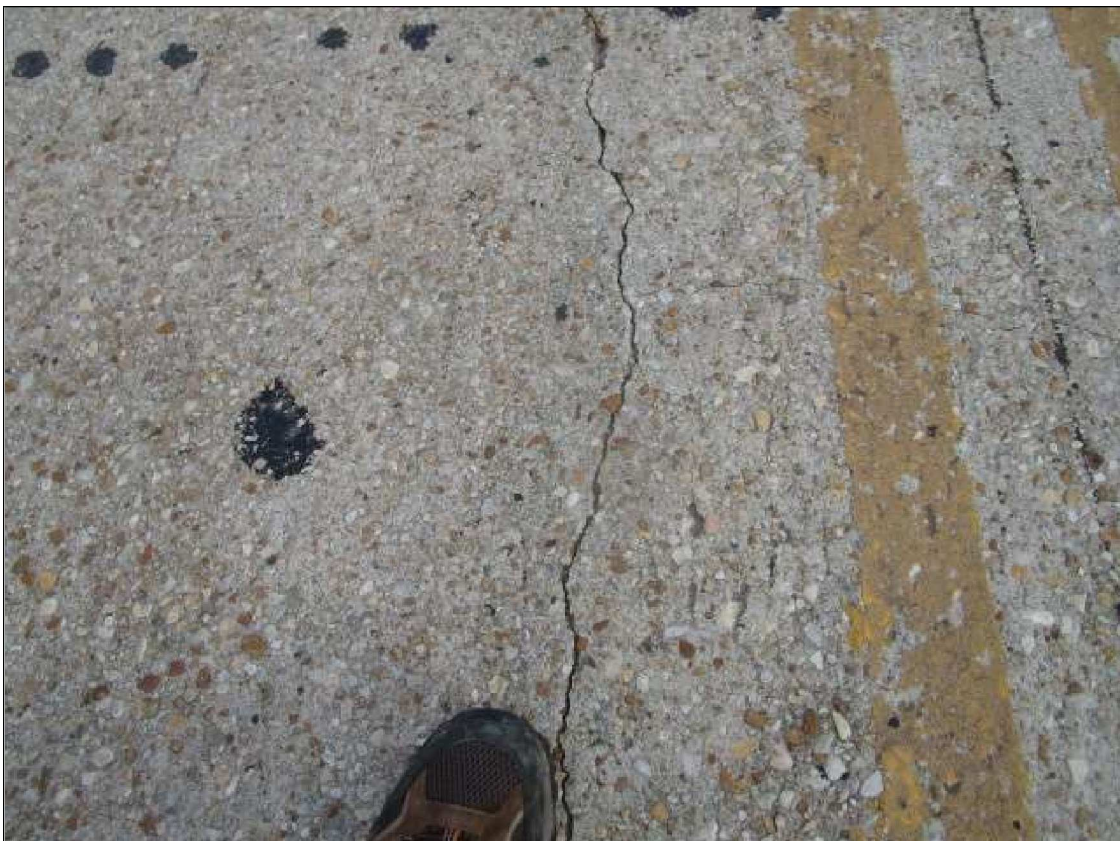
REPLACED SPAN 2 LEFT RAIL SECTION



6" DIAMETER X 1/2" DEEP SPALL ON SPAN 2 LEFT CURB AT END BENT 2



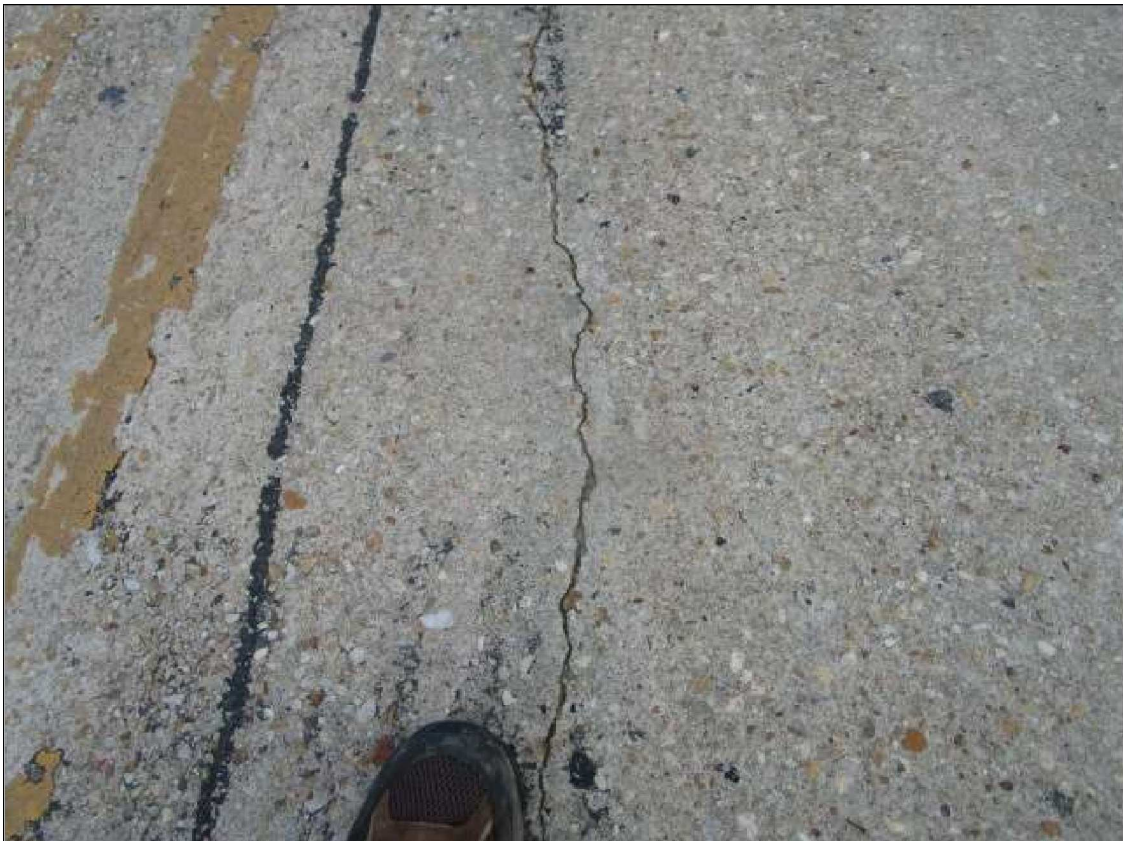
1" DEEP SETTLEMENT IN NORTH APPROACH



Span 1 Deck: 1/8" LONGITUDINAL CRACK IN SOUTH BOUND LANE



Span 1 Deck: 1/16" TRANSVERSE AND LONGITUDINAL CRACKING IN TOPSIDE



Span 2 Deck: 1/8" LONGITUDINAL CRACK IN NORTH BOUND LANE



Span 2 Deck: SCALING WITH 1/64" MAP CRACKING THROUGHOUT



Span 2 Beam 22: HEAVY CHECKING THROUGHOUT



Span 1 Beam 20: IMPACT DAMAGE TO BEAM END OVER BENT 1



2 1/2" X 3" X 3" DEEP DECAY ON LEFT CONNECTOR PLATE OVER BENT 1



POSTING SIGN AT SOUTH APPROACH AT 150' FROM BRIDGE



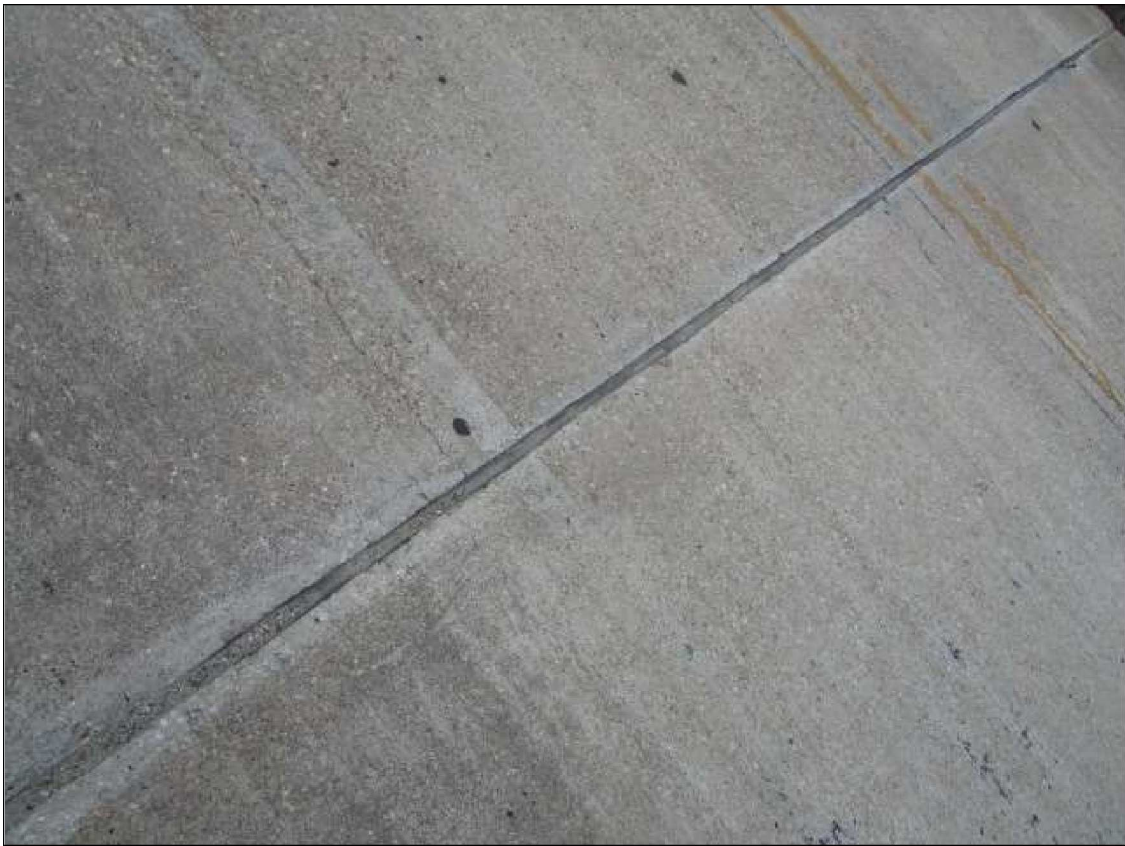
POSTING SIGN ON NORTH APPROACH AT .25 MILES FROM BRIDGE



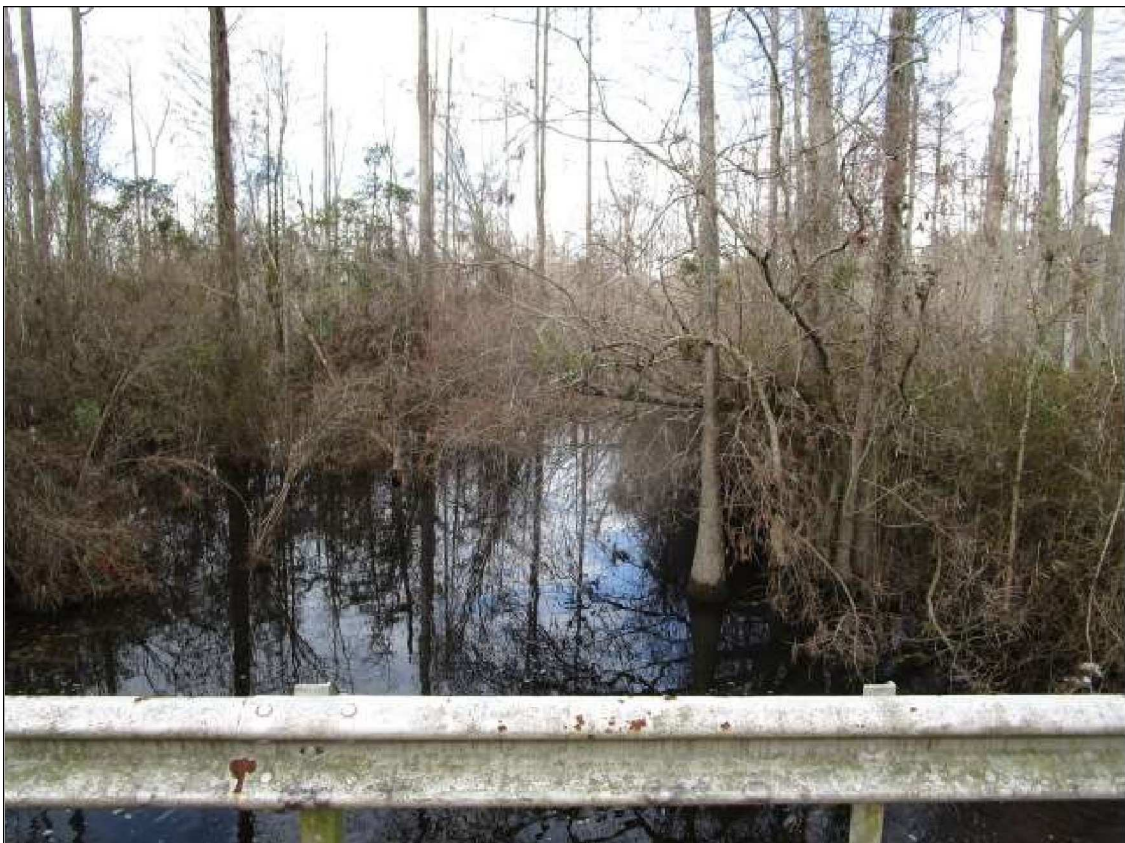
SOUTH APPROACH



TYPICAL RAIL



JOINT OVER BENT 1



LOOKING WEST UPSTREAM



LOOKING EAST DOWNSTREAM



NORTH APPROACH



EAST ELEVATION



TYPICAL WINGWALL



END BENT 1



BENT 1



WEST ELEVATION



END BENT 2

Stream Bed Soundings

(Profile diagram on following sheet)

County **CUMBERLAND**

Structure Number: **250044**

Inspection Date **02/08/2018**

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	2.700	0.000	TOP OF BACKWALL
0.250	2.700	0.000	TOP OF BACKWALL
0.300	4.100	0.000	TOP OF CAP
1.330	4.100	0.000	TOP OF CAP
1.340	6.200	0.000	WSWE
1.400	8.300	7.200	FACE OF ABUTMENT
9.000	9.500	0.000	STREAMBED
17.750	9.800	10.200	BENT 1
25.000	9.000	0.000	STREAMBED
33.500	6.300	0.000	WSWE
34.100	6.100	7.400	FACE OF ABUTMENT
34.200	4.100	0.000	TOP OF CAP
35.000	4.100	0.000	TOP OF CAP
35.100	2.700	0.000	TOP OF BACKWALL
35.500	2.700	0.000	TOP OF BACKWALL

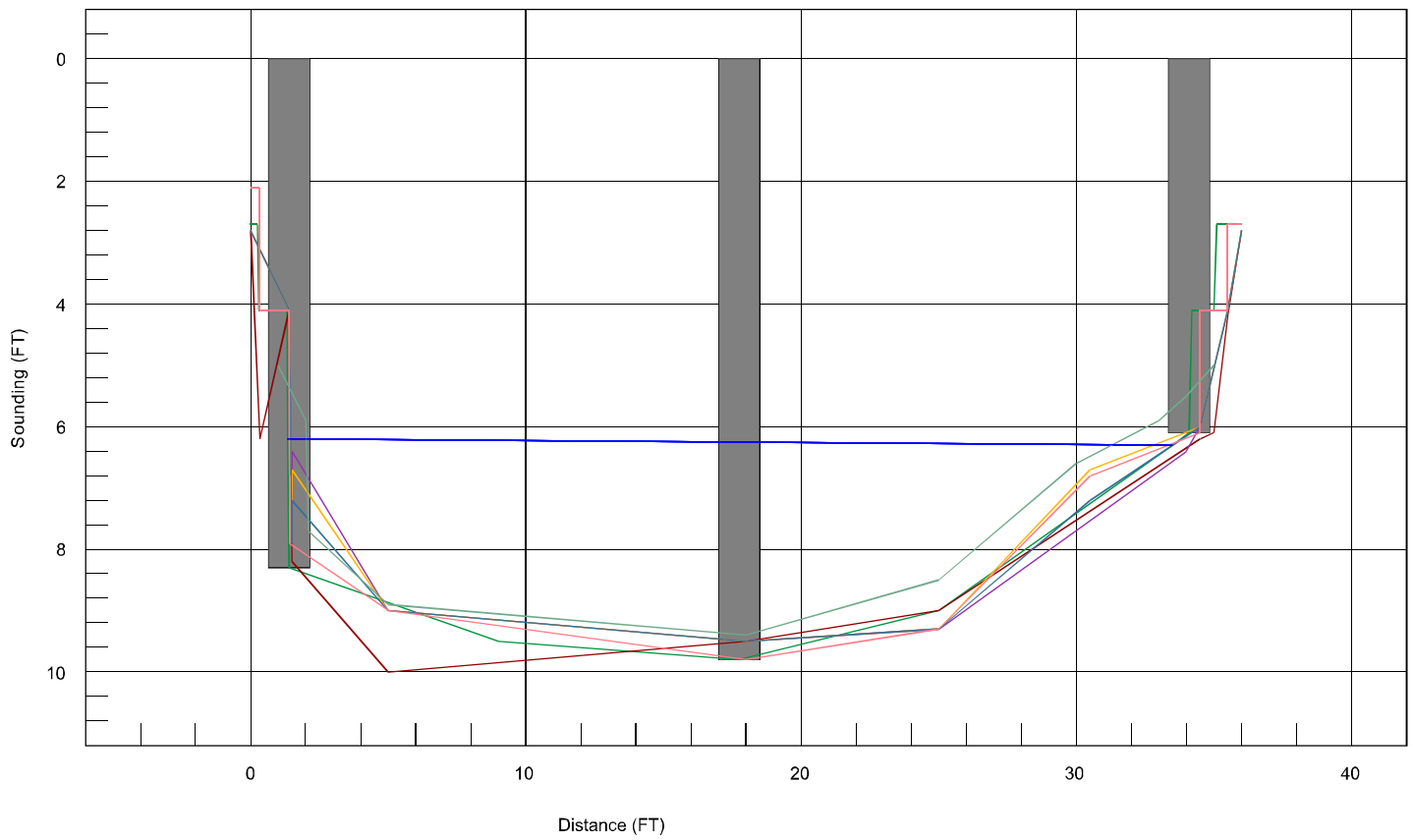
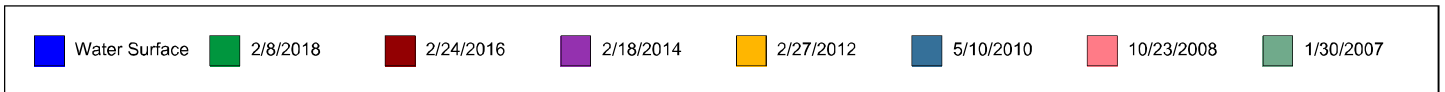
Bridge: 250044

County: CUMBERLAND

Date: 02/08/2018

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

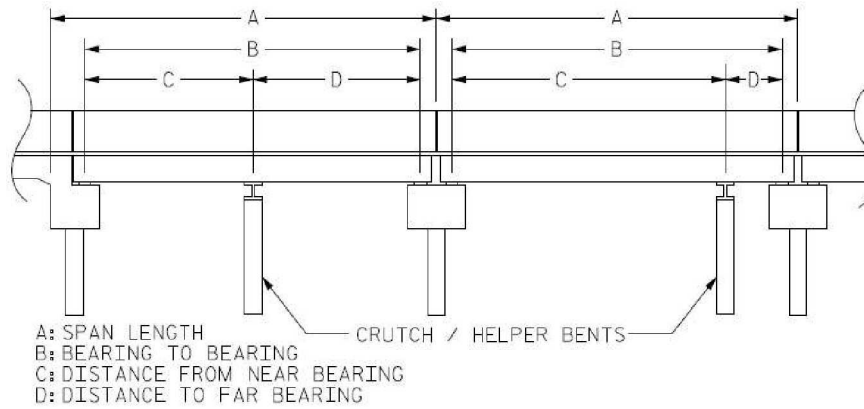


Structure Data Worksheet

Span Profile

County: **CUMBERLAN**
D

Structure Number: **250044**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	17.750	16.500			
2	17.750	16.417			