



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE: BEAMS, TEMPORARY
REPAIRS: BEAMS

Structure Safety Report

Routine Element Inspection

COUNTY: BUNCOMBE STRUCTURE NUMBER: 100142 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR2027 MILE POST:

LOCATION: .3 MI.N.JCT.NC197

FEATURE INTERSECTED: MARTIN CREEK

LATITUDE: 35° 47' 25.46" LONGITUDE: 82° 25' 25.39"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE: ABUTMENTS:YOUNT MASONRY

SPANS: 1 @ 21'

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

PRESENT CONDITION: Poor INSPECTION DATE: 12/15/2016

POSTED SV: 17 POSTED TTST: 25

OTHER SIGNS PRESENT: DELINEATORS (4)



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

DIRECTION OF
INSPECTION S-N

DIRECTION
MATCHES PLANS NO PLANS

SOUTH APPROACH LOOKING NORTH

INSPECTED BY JOSEPH HUNTSINGER	SIGNATURE <i>Joseph Huntsinger</i>	ASSISTED BY DAVID SANDERS
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Structure Element Scoring

Structure Number: 100142

Inspection Date 12/15/201
6

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
31	0	Timber Deck	Deck	532	532	0	0	0
107	0	Steel Open Girder/Beam	Beam	315	0	0	105	210
515	107	Steel Protective Coating	Beam	840	0	0	0	840
215	0	Reinforced Concrete Abutment	Abutments	104	88	1	15	0
515	316	Steel Protective Coating	Bearing Device	60	0	0	0	60
332	0	Timber Bridge Railing	Bridge Rail	42	42	0	0	0
510	0	Wearing Surface	Wearing Surfaces	511	0	0	511	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 100142

Inspection Date: 12/15/2016

MMS Code	Element Name	Defect Name	Recommended Quantity
3314	Steel Open Girder/Beam	Corrosion	315 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	4 Feet
3350	Reinforced Concrete Abutment	Efflorescence/Rust Staining	50 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	2 Feet
3334	Other Bearings	Corrosion	30 Each
2816	Wearing Surface	Crack (Wearing Surface)	511 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	900 Square Feet

Element Structure Maintenance Quantities

Structure Number: 100142

Inspection Date 12/15/2016

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	56	104	0	15	1	88
Beam	3314	Maintenance Steel Superstructure Components	315	315	210	105	0	0
Beam	3342	Clean and Paint Steel	840	840	840	0	0	0
Bearing Device	3342	Clean and Paint Steel	60	60	60	0	0	0
Bridge Rail	3316	Maintenance of Timber Bridge Rail	0	42	0	0	0	42
Deck	3324	Maintenance of Timber Deck Components	0	532	0	0	0	532
Wearing Surfaces	2816	Asphalt Surface Repair	511	511	0	511	0	0

Element Condition and Maintenance Data

Structure Number: 100142

Inspection Date: 12/15/2016

Span 1

Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	21	0	0	0	21	Feet
515	Steel Protective Coating	56	0	0	0	56	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 12" BEGINNING AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	4	21	21	Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED ALLOWING SECTION LOSS	4	56	56	Square Feet

General Comments

BEAM 1 REPAIR PLATES:
 10" LONG X 2" WIDE X 1/2" THICK PLATE WELDED TO THE LEFT HALF OF THE BOTTOM FLANGE AT 12" FROM NEAR END.
 6" LONG X 2" WIDE X 1/2" THICK PLATE WELDED TO THE RIGHT HALF OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END.

Span 1

Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	21	0	0	0	21	Feet
515	Steel Protective Coating	56	0	0	0	56	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO A KNIFE EDGE TO 1/16" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE LEFT HALF OF THE FLANGE IS REDUCED TO 1/8" FOR 12" BEGINNING AT 10' AND 13' FROM THE NEAR END OF THE BEAM. THE FULL WIDTH OF THE BOTTOM FLANGE IS REDUCED TO 1/16" - 1/8" FOR 12" AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	4	21	21	Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED, ALLOWING RUST WITH SECTION LOSS.	4	56	56	Square Feet

General Comments

Span 1**Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	21	0 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	REPAIR PLATES HAVE BEEN WELDED TO THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM. THESE ARE PRIORITY MAINTENANCE REPAIRS. THE FULL LENGTH OF THE TOP FLANGE IS REDUCED TO 1/8" - 3/16". FRECKLED AND FLAKING RUST ON THE WEB AND BOTTOM FLANGE.	3	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet

General Comments

BEAM 3 REPAIR PLATES:
5" LONG X 2" WIDE X 1/2" THICK STEEL PLATES WELDED TO BOTH SIDES OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM.

Span 1**Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	21	0 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	REPAIR PLATES HAVE BEEN WELDED TO THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM. THESE ARE PRIORITY MAINTENANCE REPAIRS. THE FULL LENGTH OF THE TOP FLANGE IS REDUCED TO 1/8" - 3/16" THE FULL LENGTH OF THE BEAM. FRECKLED AND FLAKING RUST ON THE WEB AND BOTTOM FLANGE.	3	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED	4	56	56 Square Feet

General Comments

BEAM 4 REPAIR PLATES:
5" LONG X 2" WIDE X 1/2" THICK STEEL PLATES WELDED TO BOTH SIDES OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM.

Span 1**Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	0	21 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO 1/16" - 1/8" FOR 15" BEGINNING AT THE NEAR END OF THE BEAM. THE RIGHT HALF OF THE BOTTOM FLANGE HAS A PLATE AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 3" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY	4	21	21 Feet

MAINTENANCE IS REQUESTED.

515 Effectiveness (Steel Protective Coatings) PROTECTIVE SYSTEM FAILED. 4 56 56 Square Feet

General Comments

BEAM 5 REPAIR PLATE:
5" LONG X 2" WIDE X 1/2" THICK STEEL PLATES WELDED TO THE RIGHT SIDE OF THE BOTTOM FLANGE AT 10"
FROM THE NEAR END OF THE BEAM.

Span 1**Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	0	21 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION WITH THE RIGHT HALF OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 4'-6" BEGINNING AT 8'-9" FROM THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	4	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet

General Comments

BEAM 6 REPAIR PLATES:
14" LONG X 2" WIDE X 1/2" THICK STEEL PLATE WELDED TO THE RIGHT HALF OF THE BOTTOM FLANGE AT THE NEAR END OF THE BEAM.
2" LONG X 2" WIDE X 1/2" THICK STEEL PLATE WELDED TO THE LEFT HALF OF THE BOTTOM FLANGE AT 12" FROM THE NEAR END.
8" LONG X 6" HIGH X 1/2" THICK STEEL PLATE WELDED TO THE RIGHT FACE OF THE WEB AT THE NEAR END.

Span 1**Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	21	0 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	REPAIR PLATES HAVE BEEN WELDED TO THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM. THESE ARE PRIORITY MAINTENANCE REPAIRS. THE FULL LENGTH OF THE TOP FLANGE IS REDUCED TO 1/8" - 3/16". FRECKLED AND FLAKING RUST ON THE WEB AND BOTTOM FLANGE.	3	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet

General Comments

BEAM 7 REPAIR PLATES:
5" LONG X 2" WIDE X 1/2" THICK STEEL PLATES WELDED TO BOTH SIDES OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM.
3" WIDE X 3" HIGH X 1/2" THICK STEEL PLATE WELDED TO THE RIGHT FACE OF THE WEB AT THE NEAR END.

Span 1**Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	0	21 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	4	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet
General Comments					

Span 1**Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	0	21 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	4	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet
General Comments					

Span 1**Beam 10****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	0	21 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE	4	21	21 Feet

THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.

515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet
General Comments					

Span 1 Beam 11

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	21	0	0	0	21	Feet
515	Steel Protective Coating	56	0	0	0	56	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 14" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	4	21	21	Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56	Square Feet
General Comments						

Span 1 Beam 12

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	21	0 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	REPAIR PLATES HAVE BEEN WELDED TO THE BOTTOM FLANGE AT THE NEAR END OF THE BEAM. THESE ARE PRIORITY MAINTENANCE REPAIRS. THE FULL LENGTH OF THE TOP FLANGE IS REDUCED TO 1/8" - 3/16". FRECKLED AND FLAKING RUST ON THE WEB AND BOTTOM FLANGE.	3	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet
General Comments					

BEAM 3 REPAIR PLATES:
5" LONG X 2" WIDE X 1/2" THICK STEEL PLATE WELDED TO THE RIGHT OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM.

Span 1 Beam 13

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	0	21 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION WITH THE FULL WIDTH OF THE BOTTOM	4	21	21 Feet

FLANGE REDUCED TO 3/16" FOR 10" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.

515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56	Square Feet
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General Comments**Span 1****Beam 14****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	0	21 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 3/16" FOR 9" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	4	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED.	4	56	56 Square Feet

General Comments

BEAM 3 REPAIR PLATES:
5" LONG X 2" WIDE X 1/2" THICK STEEL PLATE WELDED TO THE LEFT SIDE OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM.

Span 1**Beam 15****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	21	0	0	21	0 Feet
515	Steel Protective Coating	56	0	0	0	56 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	THE FULL LENGTH OF THE TOP FLANGE IS REDUCED TO 1/8" - 3/16". FRECKLED AND FLAKING RUST WITH LESS THAN 1/16" LOSS ON THE WEB AT BEARINGS AND RANDOM AREAS OF THE BOTTOM FLANGE.	3	21	21 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE SYSTEM FAILED	4	56	56 Square Feet

General Comments

Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	511	0	0	511	0 Square Feet

General Comments

Near Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

General Comments

Far Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

General Comments

Near Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

General Comments

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating		2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet
General Comments					

Span 1 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet

General Comments

Span 1 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet

General Comments

Span 1 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT SYSTEM FAILED ALLOWING CORROSION WITH 1/16" - 3/16" FLAKING RUST.	4	2	2 Square Feet

General Comments

End Bent 1 Reinforced Concrete Abutment 1**Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	52	49	1	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Delamination/Spall	1.5' LONG X 1/2" DEEP DELAMINATION IN THE RIGHT END OF THE BRIDGE SEAT.	3	2	2 Feet
215	Cracking (RC and Other)	FULL HEIGHT HAIRLINE CRACK NEAR BEAM 8.	2	1	1 Feet

General Comments

End Bent 2**Reinforced Concrete Abutment 1****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	52	39	0	13	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	1/8" WIDE FULL HEIGHT VERTICAL CRACK UNDERNEATH BEAM 8.	3	1	1 Feet
215	Delamination/Spall	2' WIDE X 2" DEEP SPALL IN THE TOP OF THE END BENT, NEAR BEARING OF BEAM 1.	3	2	2 Feet
215	Efflorescence/Rust Staining	10' LONG X 5' HIGH AREA OF MAP CRACKING WITH HEAVY EFFLORESCENCE AND RUST STAINING ON THE LEFT END OF THE ABUTMENT.	3	10	50 Feet

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	532
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 12	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 13	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 14	Plate Girder	Steel Open Girder/Beam	21
Span 1	Beam 15	Plate Girder	Steel Open Girder/Beam	21
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	21
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	21
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	511
End Bent 1		Reinforced Concrete Abutment	Reinforced Concrete Abutment	52
End Bent 1		Reinforced Concrete Abutment	Masonry Abutments	52
End Bent 2		Reinforced Concrete Abutment	Reinforced Concrete Abutment	52
End Bent 2		Reinforced Concrete Abutment	Masonry Abutments	52

National Bridge and NC Inspection Items

Structure Number: 100142

Inspection Date: 12/15/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	5
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	6

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
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C		0	3350
Field Scour Evaluation		L		
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	10		
Superstructure Paint Code		U		

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	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	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 100142

Inspection Date: 12/15/2016

Item	Priority Maintenance Issued	Grade	Y	Maint Code	Qty.	0
Details	BEAMS					
Item	Presently Posted	Grade	Y	Maint Code	Qty.	0
Details	SV-17, TTST-25					



End Bent 2 Abutment/Backwall : 10' LONG X 5' HIGH AREA OF MAP CRACKING WITH HEAVY EFFLORESCENCE AND RUST STAINING ON THE LEFT END OF THE ABUTMENT.



Span 1 Beam 1: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 12" BEGINNING AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



BEAM 1 REPAIR PLATES: 10" LONG X 2" WIDE X 1/2" THICK PLATE WELDED TO THE LEFT HALF OF THE BOTTOM FLANGE AT 12" FROM NEAR END. 6" LONG X 2" WIDE X 1/2" THICK PLATE WELDED TO THE RIGHT HALF OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END.



Span 1 Beam 2: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO A KNIFE EDGE TO 1/16" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE LEFT HALF OF THE FLANGE IS REDUCECD TO 1/8" FOR 12" BEGINNING AT 10' AND 13' FROM THE NEAR END OF THE BEAM. THE FULL WIDTH OF THE BOTTOM FLANGE IS REDUCED TO 1/16" - 1/8" FOR 12" AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 2: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO A KNIFE EDGE TO 1/16" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE LEFT HALF OF THE FLANGE IS REDUCECD TO 1/8" FOR 12" BEGINNING AT 10' AND 13' FROM THE NEAR END OF THE BEAM. THE FULL WIDTH OF THE BOTTOM FLANGE IS REDUCED TO 1/16" - 1/8" FOR 12" AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 2: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO A KNIFE EDGE TO 1/16" FOR 13' BEGINNING AT THE NEAR END OF THE BEAM. THE LEFT HALF OF THE FLANGE IS REDUCED TO 1/8" FOR 12' BEGINNING AT 10' AND 13' FROM THE NEAR END OF THE BEAM. THE FULL WIDTH OF THE BOTTOM FLANGE IS REDUCED TO 1/16" - 1/8" FOR 12" AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 3: REPAIR PLATES HAVE BEEN WELDED TO THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM. THESE ARE PRIORITY MAINTENANCE REPAIRS. THE FULL LENGTH OF THE TOP FLANGE IS REDUCED TO 1/8" - 3/16" THE FULL LENGTH OF THE BEAM. FRECKLED AND FLAKING RUST ON THE WEB AND BOTTOM FLANGE.



Span 1 Beam 5: CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO $\frac{1}{16}$ " - $\frac{1}{8}$ " FOR 15" BEGINNING AT THE NEAR END OF THE BEAM. THE RIGHT HALF OF THE BOTTOM FLANGE HAS A PLATE AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO $\frac{1}{8}$ " - $\frac{3}{16}$ ". THE LOWER 3" OF THE WEB IS REDUCED TO $\frac{1}{8}$ " FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL $\frac{1}{4}$ " WEB AND $\frac{5}{16}$ " FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 6: CORROSION WITH THE RIGHT HALF OF THE BOTTOM FLANGE REDUCED TO $\frac{1}{8}$ " FOR 4'-6" BEGINNING AT 8'-9" FROM THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO $\frac{1}{8}$ " - $\frac{3}{16}$ ". THE FULL HEIGHT OF THE WEB IS REDUCED TO $\frac{3}{16}$ " FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL $\frac{1}{4}$ " WEB AND $\frac{5}{16}$ " FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



BEAM 6 REPAIR PLATES: 14" LONG X 2" WIDE X 1/2" THICK STEEL PLATE WELDED TO THE RIGHT HALF OF THE BOTTOM FLANGE AT THE NEAR END OF THE BEAM. 2" LONG X 2" WIDE X 1/2" THICK STEEL PLATE WELDED TO THE LEFT HALF OF THE BOTTOM FLANGE AT 12" FROM THE NEAR END. 8" LONG X 6" HIGH X 1/2" THICK STEEL PLATE WELDED TO THE RIGHT FACE OF THE WEB AT THE NEAR END. THESE ARE REPAIRS TO PREVIOUS PRIORITY MAINTENANCES.



BEAM 7 REPAIR PLATES: 5" LONG X 2" WIDE X 1/2" THICK STEEL PLATES WELDED TO BOTH SIDES OF THE BOTTOM FLANGE AT 10" FROM THE NEAR END OF THE BEAM. 3" WIDE X 3" HIGH X 1/2" THICK STEEL PLATE WELDED TO THE RIGHT FACE OF THE WEB AT THE NEAR END.



Span 1 Beam 8: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 9: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 10: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 11: CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 14" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.



NORTH APPROACH LOOKING SOUTH



LOOKING UPSTREAM



LOOKING DOWNSTREAM



SOUTH APPROACH LOOKING NORTH



WEIGHT LIMIT



DOWNSTREAM



UTILITY LINE ON THE RIGHT SIDE OF THE BRIDGE.



END BENT 1



END BENT 2



DECK UNDERSIDE



UPSTREAM

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 08/24/2017

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	100142		SUFFICIENCY RATING =	19.67
(8) STRUCTURE NUMBER(FEDERAL)		000000000210142		STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31020270			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2		CLASSIFICATION	CODE
(3) COUNTY CODE 21 (4) PLACE CODE		0		(112)NBIS BRIDGE SYSTEM -	NO
(6) FEATURE INTERSECTED - MARTIN CREEK				(104)HIGHWAY SYSTEM Is not on NHS	0
(7) FACILITY CARRIED SR2027				(26) FUNCTIONAL CLASS - Local	09
(9) LOCATION .3 MI.N.JCT.NC197				(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 47' 25.46" (17)LONG 82° 25' 25.39"				(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions	T
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	0
				(20) TOLL On Free Road	3
				(31) MAINTAIN - State Highway Agency	01
				(22) OWNER - State Highway Agency	01
				(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN: Steel					
TYPE - Stringer Mutlibeam or Girder		CODE 302			
(44) STRUCTURE TYPE APPR :				CONDITION	CODE
TYPE -		CODE 000		(58) DECK	7
(45) NUMBER OF SPANS IN MAIN UNIT		1		(59) SUPERSTRUCTURE	4
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE	5
(107)DECK STRUCTURE TYPE - 8		CODE		(61) CHANNEL & CHANNEL PROTECTION	7
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS	N
(A) TYPE OF WEARING SURFACE -		CODE			
(B) TYPE OF MEMBRANE -		CODE		LOAD RATING AND POSTING	CODE
(C) TYPE OF DECK PROTECTION -		CODE		(31) DESIGN LOAD Unknown	0
				(63) OPERATING RATING METHOD - Load Factor	1
				(64) OPERATING RATING - HS-1	1
				(65) INVENTORY RATING METHOD - Load Factor	1
				(66) INVENTORY RATING - HS-1	1
				(70) BRIDGE POSTING - Posting Required	0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P
				DESCRIPTION - Posted for Load	
AGE AND SERVICE					
(27) YEAR BUILT		1971			
(106)YEAR RECONSTRUCTED					
(42) TYPE OF SERVICE : ON - Highway					
UNDER - Waterway		CODE 15			
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0			
(29) AVERAGE DAILY TRAFFIC		280		APPRAISAL	CODE
(30) YEAR OF ADT 1995 (109) TRUCK ADT PCT		6%		(67) STRUCTURAL EVALUATION	3
(19) BYPASS OR DETOUR LENGTH		99 MI		(68) DECK GEOMETRY	5
				(69) UNDERCLEARANCES,VERTI & HORIZ	N
				(71) WATERWAY ADEQUACY	7
				(72) APPROACH ROADWAY ALIGNMENT	6
				(36) TRAFFIC SAFETY FEATURES	0000
				(113)SCOUR CRITICAL BRIDGES	U
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN		19 FT			
(49) STRUCTURE LENGTH		21 FT			
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT					
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24.333 FT			
(52) DECK WIDTH OUT TO OUT		25.333 FT		PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		(75) TYPE OF WORK -	CODE
(33) BRIDGE MEDIAN - No Median		CODE 0		(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 45° (35) STRUCTURE FLARED		0		(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24.333 FT		(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(114)FUTURE ADT 560 (115) YEAR FUTURE ADT 2025	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		INSPECTIONS	
				(90) INSPECTION DATE	12/15/2016
				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
(38) NAVIGATION CONTROL - No Navigational Control		CODE 0		A) FRACTURE CRIT DETAIL - NO	A)
(111)PIER PROTECTION -		CODE		B) UNDERWATER INSP - NO	B)
(39) NAVIGATION VERTICAL CLEARANCE		0		C) OTHER SPECIAL INSP NO	C)
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		SCOUR	
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 08/24/2017

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
BUNCOMBE	13	2	100142	21	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR2027	MARTIN CREEK

LOCATED :	BRIDGE NAME :	CITY :
.3 MI.N.JCT.NC197		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	280 1995	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1971	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
			TAN	135	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		6 FT		1		FT

SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS
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SUBSTRUCTURE :	ABUTMENTS:YOUNT MASONRY
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SPANS :	1 @ 21'
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BEAMS OR GIRDERS :	15 LINES 9 I-BEAMS @ 1'-8 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/1.5 AWS		25.333 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24.333 FT	25 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Int.Beam	SV 12	TTST 19	DATE	08/22/2017	

SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

Date: 12/15/2016

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 1: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 12" BEGINNING AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 2: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO A KNIFE EDGE TO 1/16" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE LEFT HALF OF THE FLANGE IS REDUCECD TO 1/8" FOR 12" BEGINNING AT 10' AND 13' FROM THE NEAR END OF THE BEAM. THE FULL WIDTH OF THE BOTTOM FLANGE IS REDUCED TO 1/16" - 1/8" FOR 12" AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

Date: 12/15/2016

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 6: CORROSION WITH THE RIGHT HALF OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 4'-6" BEGINNING AT 8'-9" FROM THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 8: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 9: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

Date: 12/15/2016

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 10: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 11: CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 14" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 13: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 3/16" FOR 10" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

Date: 12/15/2016

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 14: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 3/16" FOR 9" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	
 3314	Maintain Steel Superstructure Components	LF	21	Span 1 Beam 5: CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO 1/16" -1/8" FOR 15" BEGINNING AT THE NEAR END OF THE BEAM. THE RIGHT HALF OF THE BOTTOM FLANGE HAS A PLATE AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 3" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 1: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 12" BEGINNING AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 2: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO A KNIFE EDGE TO 1/16" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE LEFT HALF OF THE FLANGE IS REDUCED TO 1/8" FOR 12" BEGINNING AT 10' AND 13' FROM THE NEAR END OF THE BEAM. THE FULL WIDTH OF THE BOTTOM FLANGE IS REDUCED TO 1/16" - 1/8" FOR 12" AT THE FAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 6: CORROSION WITH THE RIGHT HALF OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 4'-6" BEGINNING AT 8'-9" FROM THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 8: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE FULL HEIGHT OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 9: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 10: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 13" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 11: CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO 1/8" FOR 14" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 13: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 3/16" FOR 10" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Critical Finding	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 14: CORROSION WITH THE FULL WIDTH OF THE BOTTOM FLANGE REDUCED TO 3/16" FOR 9" BEGINNING AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 4" OF THE WEB IS REDUCED TO 3/16" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 100142

County BUNCOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/15/2016	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 5: CORROSION WITH THE LEFT HALF OF THE BOTTOM FLANGE REDUCED TO 1/16" -1/8" FOR 15" BEGINNING AT THE NEAR END OF THE BEAM. THE RIGHT HALF OF THE BOTTOM FLANGE HAS A PLATE AT THE NEAR END OF THE BEAM. THE ENTIRE LENGTH OF THE TOP FLANGE HAS CORROSION WITH REMAINING SECTION REDUCED TO 1/8" - 3/16". THE LOWER 3" OF THE WEB IS REDUCED TO 1/8" FOR 12" AT BEARINGS ON BOTH END BENTS. ORIGINAL 1/4" WEB AND 5/16" FLANGE THICKNESSES. FRECKLED/FLAKING RUST THROUGHOUT THE REMAINING AREA OF THE BEAM. A PRIORITY MAINTENANCE IS REQUESTED.		

Structure Data Worksheet

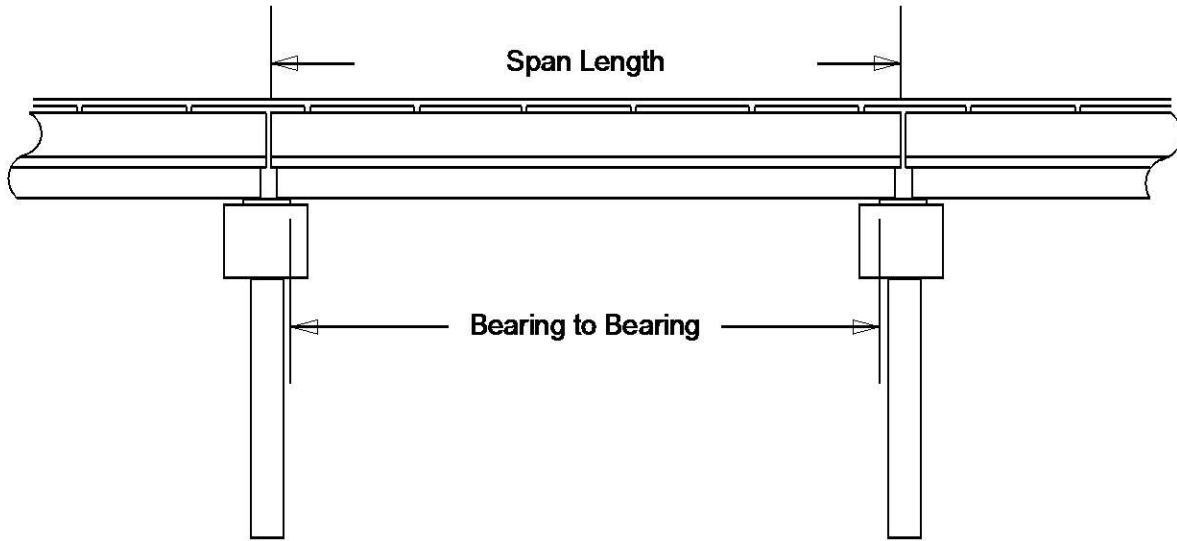
Spans

County: BUNCOMBE

Structure No: 100142

Date: 12/15/2016

Inspected By: JCH



Span No	Span Length	Bearing to Bearing	Comments
1	21'-0"	19'-1"	NBIS = 18'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 100142 County: BUNCOMBE Date: 12/15/2016 By: JCH

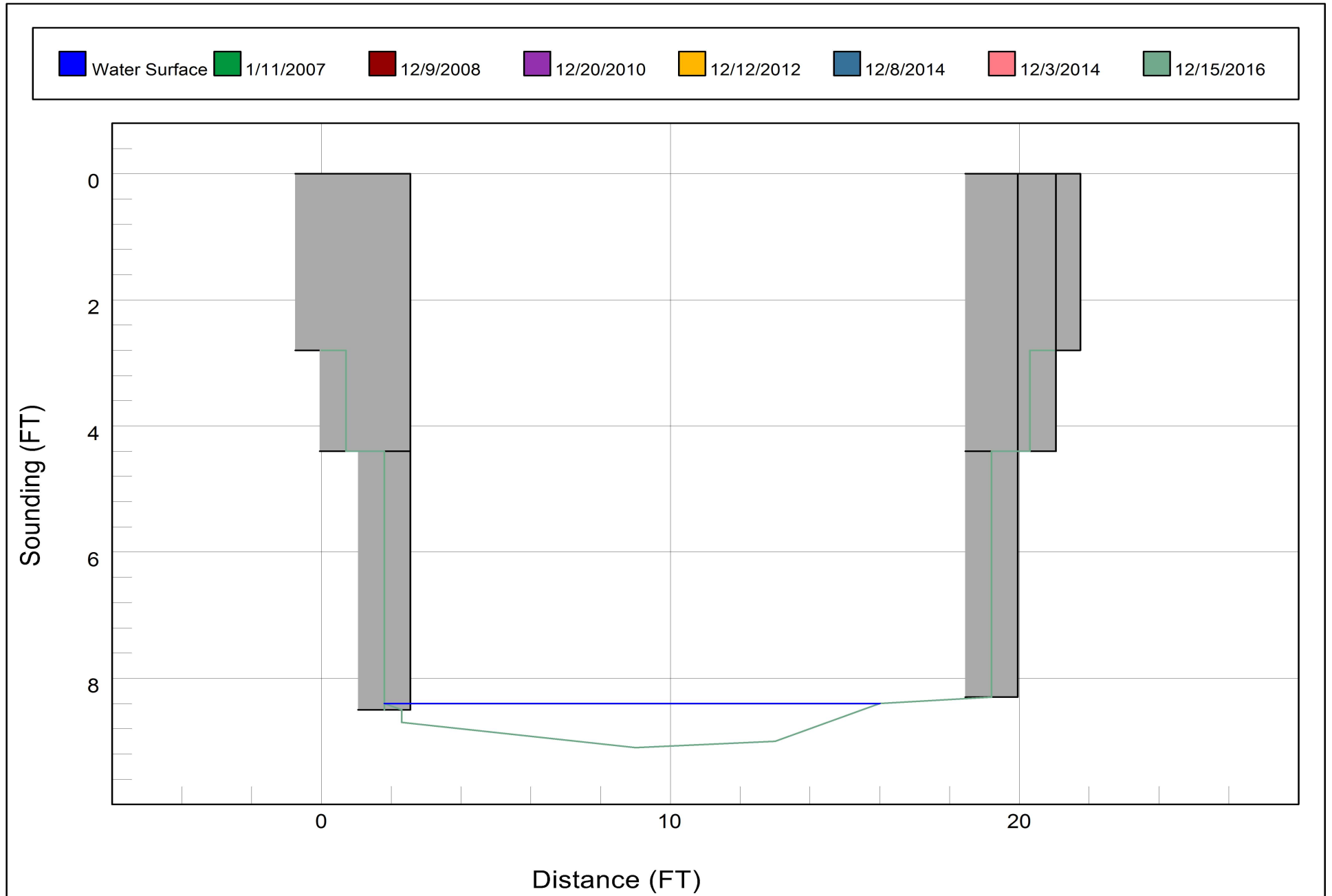
Record sounding from top of rail. Other location if needed: _____

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	2.8	FF END BENT 1			
0.7	2.8				
0.7	4.4	TOP OF CAP END BENT 1			
1.799	4.4	TOP OF CAP END BENT 1			
1.8	8.5	SF END BENT 1	1.8	7.8	SF END BENT 1
1.801	8.4	Water Surface/Water Edge (WSWE)			
2.3	8.5				
2.3	8.7				
9	9.1				
13	9				
16	8.4	Water Surface/Water Edge (WSWE)			
19.2	8.3	SF END BENT 2	19.2	8	SF END BENT 2
19.201	4.4	TOP OF CAP END BENT 2			
20.3	4.4	TOP OF CAP END BENT 2			
20.301	2.8				
21	2.8	FF END BENT 2			

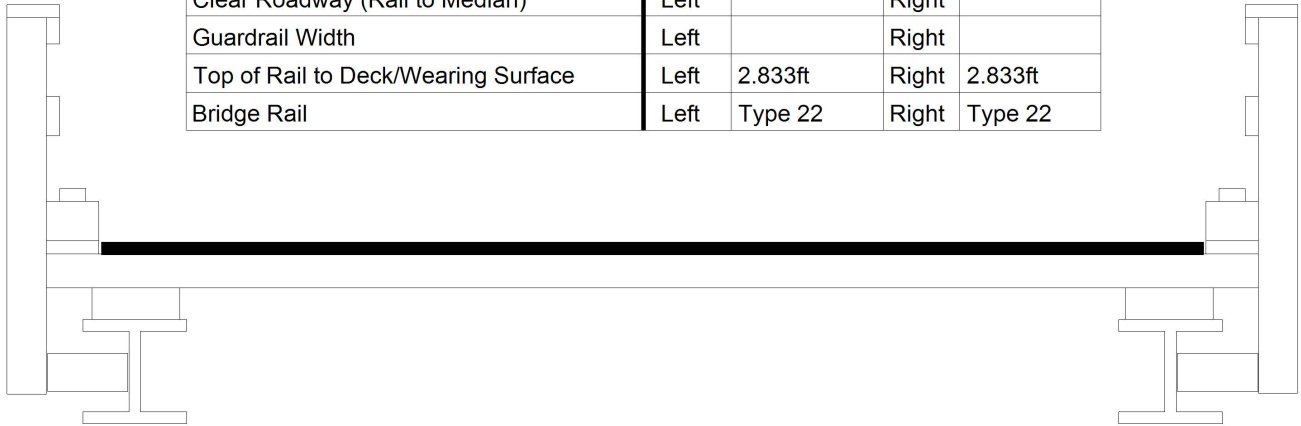
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



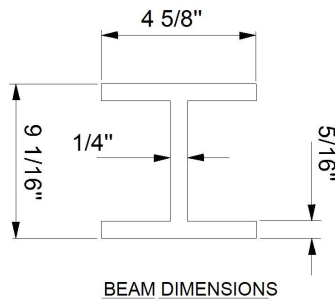
Bridge Inspection Field Sketch

Deck Width/Out to Out	25.333ft	Between Rails			25ft
Clear Roadway	24.333ft	Wearing Surface			0.125ft
Median Width		Median Height			
Curb Height		Left	0.708ft	Right	0.708ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left		Right	
Top of Rail to Deck/Wearing Surface		Left	2.833ft	Right	2.833ft
Bridge Rail		Left	Type 22	Right	Type 22



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	1
Top of Rail to Bottom of Beam	4.417	Right Overhang	1

Beam Number	Beam Type	Spacing
1 thru 15	Steel I Beam	1.667ft (+/-)



CONCRETE ABUTMENTS

12/15/16 - J.C.HUNTSINGER

Title		Description	
Typical Section		Data Worksheet	
Bridge No: 100142	Drawn By: Roy W. Shook	Date: 12/09/2008	File Name: S0102000858

Bridge Inspection Field Sketch



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

12/15/16 - J.C.HUNTSINGER

Title Approach Roadway		Description Data Worksheet	
Bridge No: 100142	Drawn By: Roy W. Shook	Date: 12/09/2008	File Name: S0102000857