



NC DEPARTMENT OF TRANSPORTATION ATTENTION:
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

INSPECTION DATE: 04/29/2019

DIVISION: 6 COUNTY: ROBESON STRUCTURE NUMBER: 770151 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1529 MILE POST: 23.7 [None]

LOCATION: 0.8 MI E JCT US301

FEATURE INTERSECTED: I95

LATITUDE: 34° 42' 1.29" LONGITUDE: 78° 59' 53.07"

SUPERSTRUCTURE: RC FL./PPC GIRDERS & PPC.CORED SLAB

SUBSTRUCTURE: E.BTS:RC CAP/PPC PILES;INT.BTS:RCP&B/PILE FTGS.

SPANS: 5 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

NBI GRADES: DECK 7 SUPERSTRUCTURE 6 SUBSTRUCTURE 7 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



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

DIRECTION OF INSPECTION W-E

DIRECTION MATCHES PLANS _____

LOOKING EAST

INSPECTED BY Ray L. Kisner	SIGNATURE <i>Ray L. Kisner</i>	ASSISTED BY Samuel F. Spillers
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Structure Element Scoring

Structure Number: 770151

Inspection Date 4/29/2019

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	3978	3978	0	0	0
15	0	Prestressed Concrete Top Flange	Beam	2700	2700	0	0	0
104	0	Prestressed Concrete Closed Web/Box Gir	Beam	900	800	100	0	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	596	587	0	9	0
205	0	Reinforced Concrete Column	Piles and Columns	8	7	0	1	0
215	0	Reinforced Concrete Abutment	Abutments	64	64	0	0	0
225	0	Steel Pile	Piles and Columns	1	1	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	188	187	1	0	0
301	0	Pourable Joint Seal	Expansion Joints	108	108	0	0	0
310	0	Elastomeric Bearing	Bearing Device	36	36	0	0	0
316	0	Other Bearings	Bearing Device	24	4	17	3	0
515	316	Steel Protective Coating	Bearing Device	48	8	0	26	14
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	504	443	6	55	0
510	0	Wearing Surface	Wearing Surfaces	6576	6390	166	20	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 770151

Inspection Date: 04/29/2019

MMS Code	Element Name	Defect Name	Recommended Quantity
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	25 Feet
3348	Reinforced Concrete Column	Delamination/Spall	1 Each
3334	Other Bearings	Corrosion	3 Each
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	55 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	6 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	112 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	40 Square Feet

Element Structure Maintenance Quantities

Structure Number: 770151

Inspection Date 04/29/2019

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	64	0	0	0	64
Beam	3306	Maintenance Concrete Superstructure Components	25	1496	0	9	100	1387
Beam	3326	Maintenance of Concrete Deck	0	2700	0	0	0	2700
Bearing Device	3334	Bridge Bearing	3	60	0	3	17	40
Bearing Device	3342	Clean and Paint Steel	40	48	14	26	0	8
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	55	504	0	55	6	443
Caps	3348	Maintenance of Concrete Substructure	0	188	0	0	1	187
Deck	3326	Maintenance of Concrete Deck	0	3978	0	0	0	3978
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	108	0	0	0	108
Piles and Columns	3348	Maintenance of Concrete Substructure	1	8	0	1	0	7
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	1	0	0	0	1
Wearing Surfaces	2816	Asphalt Surface Repair	118	6576	0	20	166	6390

Element Condition and Maintenance Data

Structure Number: 770151

Inspection Date: 04/29/2019

Span 1 **Wearing Surface**
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,322	1,298	24	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Patched Area/Pothole (Wearing Surface)	24 FT. LONG SEALED CRACK AT END BENT 1	2	24		Square Feet
General Comments						

Span 1 **Near Bearing**
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	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	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	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	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	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
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	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
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	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
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments

Span 2 Wearing Surface
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,313	1,239	74	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	24 FT. SEALED TRANSVERSE CRACK OVER BENT 1	2	24	24 Square Feet
510	Crack (Wearing Surface)	50 FT. LONGITUDINAL CRACK .005 WIDE IN RIGHT SHOULDER	2	50	50 Square Feet

General Comments**Span 2 Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	46	4	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	2 SF. OF HAIRLINE MAP CRACKING IN TOP OF CURB AT BENT 1	2	2	Feet
331	Cracking (RC and Other)	2 SF. OF HAIRLINE MAP CRACKING IN TOP OF CURB AT BENT 2	2	2	Feet

General Comments**Span 2 Slab 1****Prestressed Concrete Cored Slab**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	150	150	0	0	0 Square Feet
104	Prestressed Concrete Closed Web/Box Girder	50	0	50	0	0 Feet
521	Concrete Protective Coating	150	150	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
104	Efflorescence/Rust Staining	50 FT. OF EFFLORESCENCE LEAKAGE BETWEEN UNITS 1 AND 2	2	50	Feet

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	150	150	0	0	0 Square Feet
104	Prestressed Concrete Closed Web/Box Girder	50	0	50	0	0 Feet
521	Concrete Protective Coating	150	150	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
104	Efflorescence/Rust Staining	50 FT. OF EFFLORESCENCE LEAKAGE BETWEEN UNITS 8 AND 9	2	50	Feet

General Comments**Span 3 Beam 1****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	49	48	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 3	3	1	3 Feet

General Comments

Span 3 **Beam 2****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	49	48	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 3	3	1	3 Feet

General Comments

Span 3 **Beam 3****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	49	47	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	9" X 3" X 1/2" DEEP SPALL IN BOTTOM FLANGE NORTH FACE AT BENT 2	3	1	1 Feet
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 3	3	1	3 Feet

General Comments

Span 3 **Beam 4****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	49	48	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 3	3	1	3 Feet

General Comments

Span 3 **Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,313	1,284	25	4	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	2 - 20" TRANSVERSE CRACKS 1/16" WIDE AT MIDSPAN	3	4	4 Square Feet
510	Crack (Wearing Surface)	24 FT. SEALED TRANSVERSE CRACK OVER BENT 2	2	24	24 Square Feet
510	Patched Area/Pothole (Wearing Surface)	SOUND PATCH IN WESTBOUND LANE AT MIDSPAN	2	1	Square Feet

General Comments

Span 3 Left Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	0	0	50	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	50 FT. OF HAIRLINE MAP CRACKING IN TOP OF CURB	3	50	50 Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	1/8" OF PACK RUST	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	1/8" OF PACK RUST	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments

Span 3 Far Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments

Span 3 Near Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments

Span 3 Far Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments

Span 3 Near Bearing
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 4 Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,313	1,279	18	16	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	.010 LONGITUDINAL CRACK IN THE RIGHT SHOULDER	3	10	10 Square Feet
510	Patched Area/Pothole (Wearing Surface)	2 - 36" WIDE X UP TO 8" LONG X 2" DEEP POTHOLES AT BENT 3 IN THE EASTBOUND LANE	3	6	6 Square Feet
510	Patched Area/Pothole (Wearing Surface)	SEALED TRANSVERSE CRACK OVER BENT 3	2	18	Square Feet

General Comments**Span 4 Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	48	2	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	20" WRAP-AROUND HAIRLINE CRACK IN RAIL 10 FT. FROM BENT 3	2	1	Feet
331	Cracking (RC and Other)	7" VERTICAL HAIRLINE CRACK IN RAIL 10 FT. FROM BENT 4	2	1	Feet

General Comments**Span 4 Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	45	0	5	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	5 FT. OF HAIRLINE MAP CRACKING IN CURB AT MIDSPAN	3	5	5 Feet

General Comments**Span 5 Beam 1****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 4	3	1	3 Feet

General Comments**Span 5 Beam 2****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 4	3	1	3 Feet

General Comments**Span 5 Beam 3****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 4	3	1	3 Feet

General Comments**Span 5 Beam 4****Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	50	49	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	FULL HEIGHT X FULL WIDTH X 1" DEEP SPALL IN END OF BEAM AT BENT 4	3	1	3 Feet

General Comments

Span 5 Wearing Surface**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,315	1,290	25	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Patched Area/Pothole (Wearing Surface)	1 FT. PATCH IN EASTBOUND LANE AT MID SPAN	2	1	Square Feet
510	Patched Area/Pothole (Wearing Surface)	SEALED TRANSVERSE CRACK OVER BENT 4	2	24	Square Feet

General Comments**Span 5 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments**Span 5 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	2	0	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	1/8" OF PACK RUST	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

General Comments**Span 5 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet

General Comments

Span 5 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments**Span 5 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments**Span 5 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2	Square Feet

General Comments**End Bent 1 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	32	31	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK UNDER BAY 1	2	1		Feet

General Comments

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

End Bent 1 **Pile 1****Steel Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	1	0	0	0 Each

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

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

End Bent 2 **Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	32	32	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
----------------	-------------	--------------------	----	--------	-----------

General Comments

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

Bent 4 **Pile 2****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinforced Concrete Column	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Delamination/Spall	SPALL 8" HIGH X 2" WIDE X 2" DEEP AT EAST FACE 5 FT. BELOW CAP	3	1	1 Each

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1325
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	51
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	51
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1322
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 2	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1313
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1325
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	49
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	49
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	49
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	49
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1313
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 4	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	150
Span 4	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	50
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50

Elements Verified

Location	Name	Component	Element Name	Amount
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1313
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1328
Span 5	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 5	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 5	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 5	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	51
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	51
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1315
Span 5	Near Bearing	Other Bearing	Other Bearings	1
Span 5	Far Bearing	Other Bearing	Other Bearings	1
Span 5	Near Bearing	Other Bearing	Other Bearings	1
Span 5	Far Bearing	Other Bearing	Other Bearings	1
Span 5	Near Bearing	Other Bearing	Other Bearings	1
Span 5	Far Bearing	Other Bearing	Other Bearings	1
Span 5	Near Bearing	Other Bearing	Other Bearings	1
Span 5	Far Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	32
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32

Elements Verified

Location	Name	Component	Element Name	Amount
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	32
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Bent 1

Pile 1

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

Bent 2

Cap 1

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

National Bridge and NC Inspection Items

Structure Number: 770151

Inspection Date: 04/29/2019

National Bridge Inventory Items

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

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	75	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C			
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			
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	N
Inspection Time	Hours	6
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
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: 770151

Inspection Date: 04/29/2019

Item	Slope Protection	Grade	F	Maint Code	3352	Qty.	75
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Details VEGETATION ON END BENT 2 SLOPE, 75 SQUARE FOOT. FT.



Span 1 Beam 1 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 1 Beam 1 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 1 Beam 2 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 1 Beam 3 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 1 Beam 4 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 1 Beam 4 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 2 Slab 1: 50 FT. OF EFFLORESCENCE LEAKAGE BETWEEN UNITS 1 AND 2



Span 2 Slab 8: 50 FT. OF EFFLORESCENCE LEAKAGE BETWEEN UNITS 8 AND 9



Span 3 Beam 1 Near Bearing: 1/8" OF PACK RUST



Span 3 Beam 2 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 3 Beam 3 Near Bearing: SURFACE CORROSION



Span 3 Beam 4 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 3 Beam 1 Far Bearing: 1/8" OF PACK RUST



Span 3 Beam 2 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 3 Beam 3 Far Bearing: SURFACE CORROSION



Span 3 Beam 4 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Bent 4 Pile 2: SPALL 8" HIGH X 2" WIDE X 2" DEEP AT EAST FACE 5 FT. BELOW CAP



VEGETATION ON END BENT 2 SLOPE, 75 SQUARE FOOT. FT.



Span 5 Beam 1 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 5 Beam 1 Far Bearing: 1/8" OF PACK RUST



Span 5 Beam 2 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 5 Beam 3 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 5 Beam 4 Near Bearing: SURFACE CORROSION



Span 5 Beam 4 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



End Bent 1 Cap 1: 12" VERTICAL HAIRLINE CRACK UNDER BAY 1



Span 5 Wearing Surface: 1 FT. PATCH IN EASTBOUND LANE AT MID SPAN



Span 5 Wearing Surface: SEALED TRANSVERSE CRACK OVER BENT 4



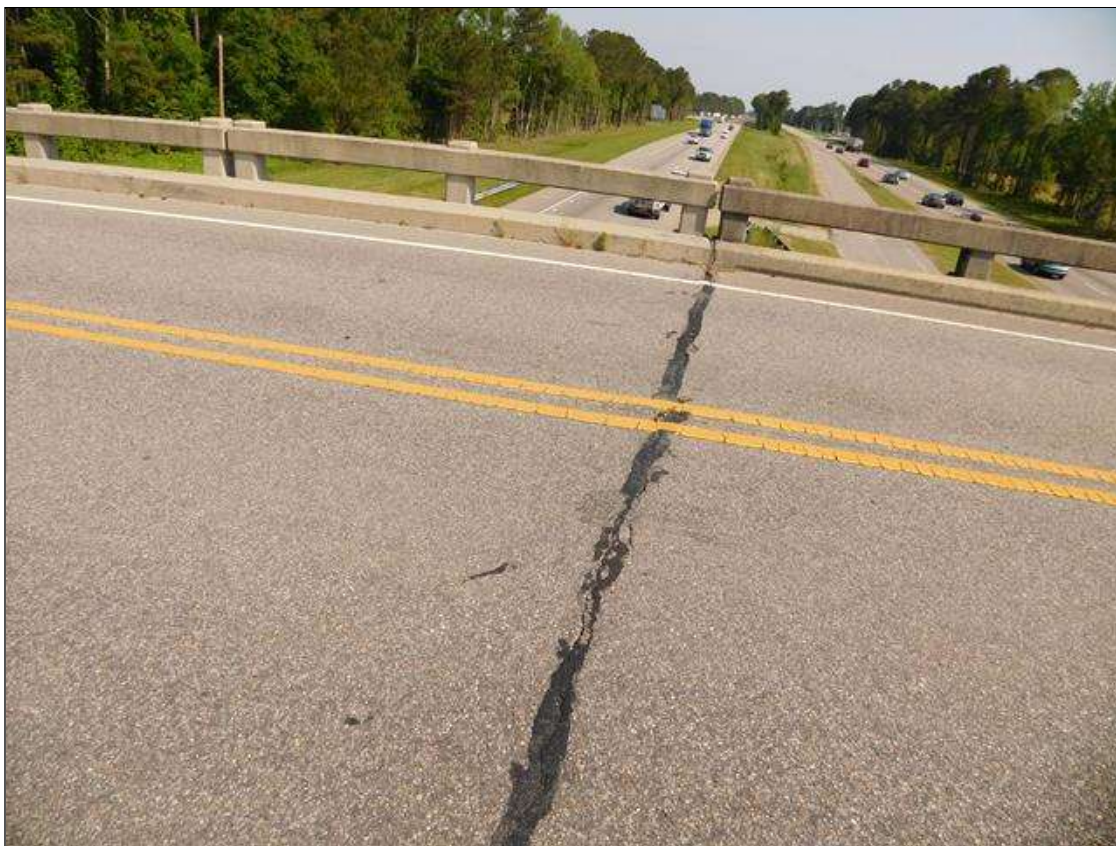
Span 4 Wearing Surface: 2 - 36" WIDE X UP TO 8" LONG X 2" DEEP POTHOLES AT BENT 3 IN THE EASTBOUND LANE



Span 4 Wearing Surface: .010 LONGITUDINAL CRACK IN THE RIGHT SHOULDER



Span 3 Wearing Surface: SOUND PATCH IN WESTBOUND LANE AT MIDSPAN



Span 3 Wearing Surface: 24 FT. SEALED TRANSVERSE CRACK OVER BENT 2



Span 2 Wearing Surface: 50 FT. LONGITUDINAL CRACK .005 WIDE IN RIGHT SHOULDER



Span 2 Wearing Surface: 24 FT. SEALED TRANSVERSE CRACK OVER BENT 1



Span 2 Right Bridge Rail: 2 SF. OF HAIRLINE MAP CRACKING IN TOP OF CURB AT BENT 1



Span 1 Wearing Surface: 24 FT. LONG SEALED CRACK AT END BENT 1



SOUTH PROFILE



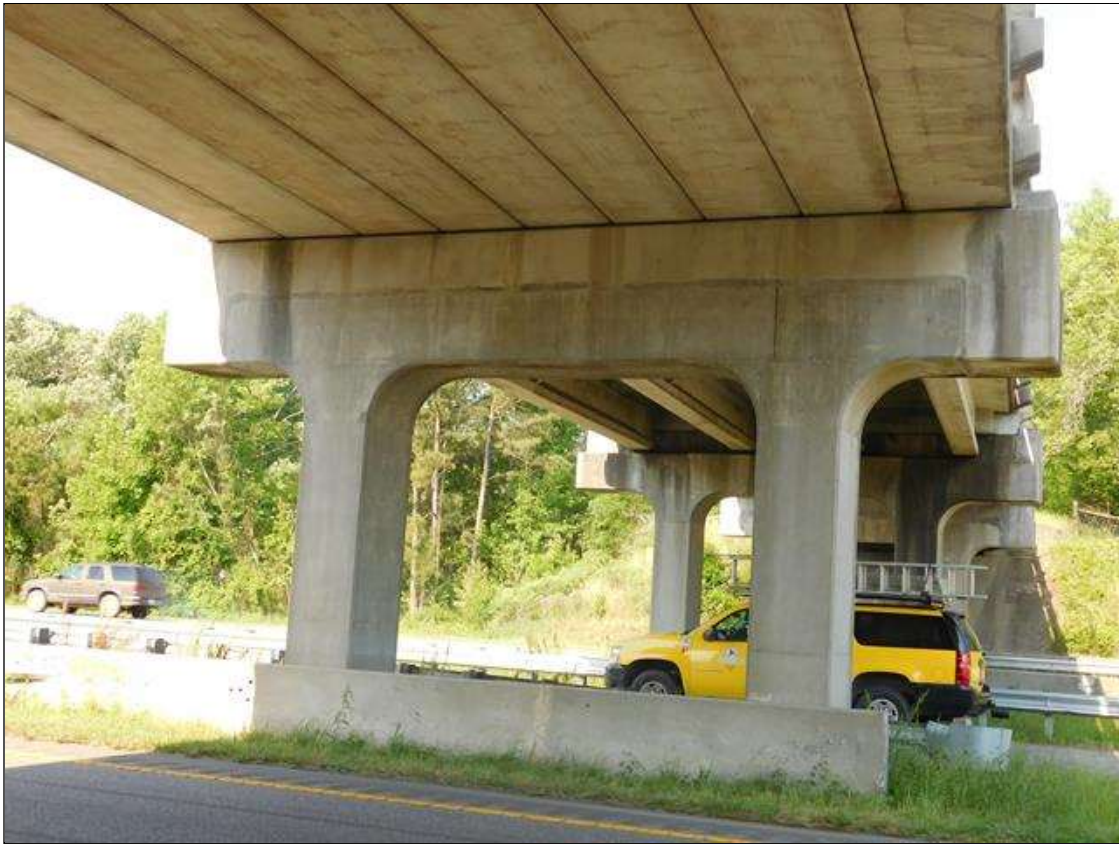
LOOKING NORTH, NORTHBOUND LANE I-95 THRU SPAN 4



BENT 4



END BENT 2



BENT 3



SPAN 4 SUPERSTRUCTURE, SPAN 2 IS SIMILAR



NORTH PROFILE



LOOKING SOUTH, SERVICE ROAD THRU SPAN 3



LOOKING SOUTH, SOUTHBOUND LANE I-95 THRU SPAN 2



BENT 2



BENT 1



SPAN 1 SUPERSTRUCTURE, SPANS 3 AND 5 SIMILAR



END BENT 1



NORTH END OF BENT 2 CAP, SIMPLE SPANS



LOOKING WEST



GUARDRAIL POST SPACING AT MIDPORTION



GUARDRAIL POST SPACING AT TRANSITION



GUARDRAIL CONNECTION



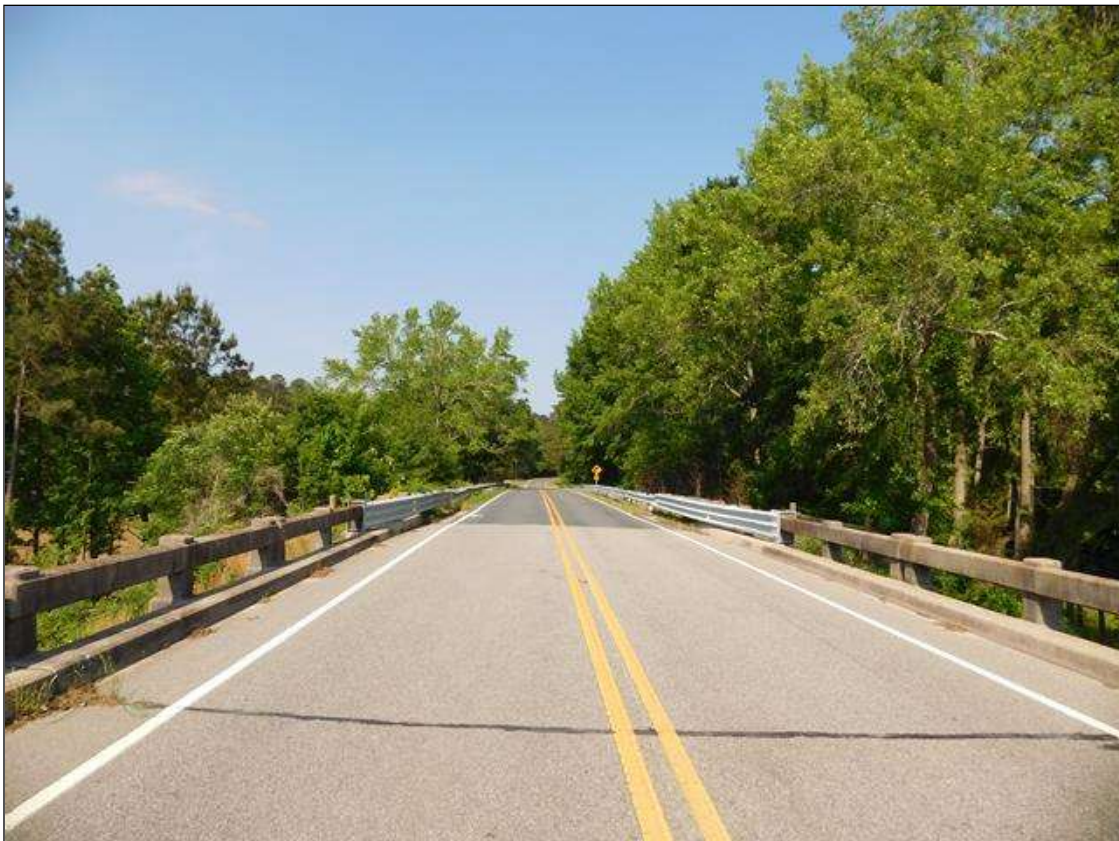
LOOKING EAST, OFF BRIDGE



LOOKING SOUTH, I-95



LOOKING NORTH, I-95



LOOKING WEST, OFF BRIDGE



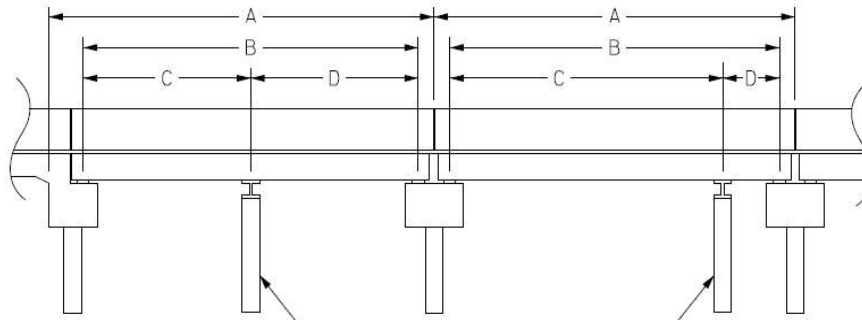
LOOKING EAST

Structure Data Worksheet

Span Profile

County: **ROBESON**

Structure Number: **770151**



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	50.333	48.000			
2	50.000	48.500			
3	50.000	48.000			
4	50.000	48.500			
5	50.083	47.750			

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

Run Date: 09/17/2019

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **770151**
 (8) STRUCTURE NUMBER(FEDERAL) 000000001550151
 (5) INVENTORY ROUTE (ON/UNDER) - ON 31015290
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 1
 (3) COUNTY CODE 155 (4) PLACE CODE 0
 (6) FEATURE INTERSECTED - I95
 (7) FACILITY CARRIED SR1529
 (9) LOCATION 0.8 MI E JCT US301
 (11)MILEPOINT 0
 (16)LAT 34° 42' 1.29" (17)LONG 78° 59' 53.07"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 72.66
 STATUS = Functionally Obsolete

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM Is not on NHS 0
 (26) FUNCTIONAL CLASS - Local 09
 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101)PARALLEL STRUCTURE - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE -
 (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: Prestressed Concrete
 TYPE - Stringer Mutlibeam or Girder CODE 502
 (44) STRUCTURE TYPE APPR : Prestressed Concrete
 TYPE - Slab CODE 501
 (45) NUMBER OF SPANS IN MAIN UNIT 3
 (46) NUMBER OF APPROACH SPANS 2
 (107)DECK STRUCTURE TYPE - 1 CODE
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - Bituminous CODE 6
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION **CODE**

(58) DECK 7
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD H 15 2
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-42 76
 (65) INVENTORY RATING METHOD - Load Factor 1
 (66) INVENTORY RATING - HS-18 33
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1959
 (106)YEAR RECONSTRUCTED 2008
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Highway CODE 11
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 5
 (29) AVERAGE DAILY TRAFFIC 3100
 (30) YEAR OF ADT 2015 (109) TRUCK ADT PCT 6%
 (19) BYPASS OR DETOUR LENGTH 6 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES,VERTI & HORIZ 4
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113)SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 49 FT
 (49) STRUCTURE LENGTH 255 FT
 (50)CURB OR SIDEWALK: LEFT 1.3335 FT RIGHT 1.3335 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 23.75 FT
 (52) DECK WIDTH OUT TO OUT 28.5 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 24 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 5° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 23.75 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Highway 16.313 FT
 (55) MIN LAT UNDERCLEAR RT REF Highway 10 FT
 (56) MIN LAT UNDERCLEAR LT REF - 10.667 FT

PROPOSED IMPROVEMENTS **CODE**

(75) TYPE OF WORK -
 (76) LENGTH OF STRUCTURE IMPROVEMENT
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114)FUTURE ADT 6200 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 04/29/2019
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - NO B)
 C) OTHER SPECIAL INSP NO C)
 SCOUR

NAVIGATION DATA

(38) NAVIGATION CONTROL - Not Applicable CODE N
 (111)PIER PROTECTION - CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0
 (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
 (40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

Structure No: 770151

County: ROBESON

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1							Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway Designator	Direction of Traffic	
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I95S	11000950	16.17	23.70	1	10095		11	2	26000	2017	44.17	H	16.12	11.67	9.83	9	1	1	1
3	I95N,COLLECTOR	18000950	15.5	23.70	1	10095		11	1	26000	2017	33	H	15.4	17	25	9	1	1	1
4	I95N	11000950	16.5	23.70	1	10095		11	2	26000	2017	43.25	H	16.31	10	10.67	9	1	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 09/17/2019

COUNTY : ROBESON DIVISION : 6 DISTRICT : 1 STRUCTURE NUMBER : 770151 LENGTH : 255 FEET

ROUTE CARRIED : SR1529 FEATURE INTERSECTED : I95

LOCATED : 0.8 MI E JCT US301 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 3100 2015 RAIL TYPE : LT 141 RT 141

BUILT : 1959 BY : SHC PROJ : 8.13972 FED.AID PROJ : IMS-095-1(78) DESIGN LOAD : H 15

REHAB : 2008 BY : DOH PROJ : 41927.3.1 ALIGNMENT : TAN SKEW : 95 LANES : ON 2 UNDER 5

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

SUPERSTRUCTURE : RC FL./PPC GIRDERS & PPC.CORED SLAB

SUBSTRUCTURE : E.BTS:RC CAP/PPC PILES;INT.BTS:RCP&B/PILE FTGS.

SPANS : 1@50.333', 1@50.0', 1@55.0', 1@50.0', 1@50.083'

BEAMS OR GIRDERS : SPS:1,3&5 36"PPC.GDRS,SPNS.2&4:9 PPC.CORED SLAB SECTIONS

FLOOR : 7 RC/2.24 AWS ENCROACHMENT : DECK (OUT TO OUT) : 28.5 FT

CLEAR ROADWAY : 23.75 FT BETWEEN RAILS : 26.417 FT SIDEWALK OR CURB : LT 1.3335 FT RT 1.3335 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-18 OPE.RTG. : HS-42 CONTR.MEMBER : int.gdr POSTED : SV TTST DATE 02/08/2008

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

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I95S	16.1670	16.1230	44.1670	9.8330	11.6670
3	I95N,COLLECTOR	15.50	15.40	33.25		17
4	I95N	16.50	16.3130	43.25	10.6670	10

Note: All measurements are in feet.

REMARKS :

Bridge Inspection Field Sketch

SR - 1529 OVER I-95 MP 23.7



MEASURED AT 10 FT. WEST OF STRUCTURE

Roadway	19.25ft Wide	2 Paved Lanes	Looking East
Left Shoulder	2.25ft Wide	2.25ft Paved	
Right Shoulder	2.25ft Wide	2.25ft Paved	
Left Guardrail	2.25ft from road		
Right Guardrail	2.25ft from road		

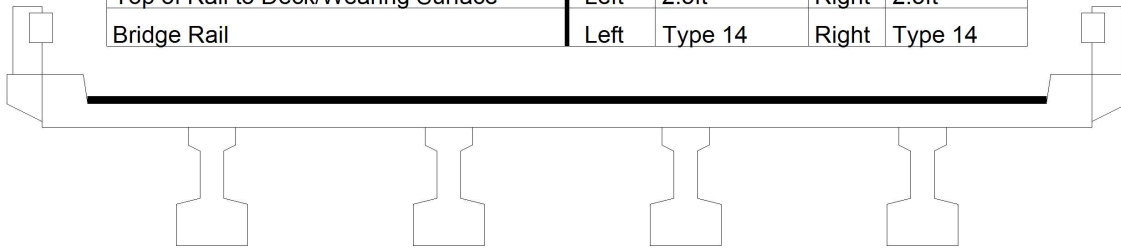
MEASUREMENTS UPDATED 4/4/2017 BY MJM

MEASUREMENTS VERIFIED BY SFS 4/29/19

Title APPROACH ROADWAY		Description LOOKING EAST	
Bridge No: 770151	Drawn By: RBH	Date: 10/30/07	File Name: S0098000264

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.333ft	Between Rails	23.75ft*
Clear Roadway	23.75ft*	Wearing Surface	0.187ft
Median Width		Median Height	
Curb Height	Left 0.667ft	Right 0.667ft	
Sidewalk Width	Left	Right	
Clear Roadway (Rail to Median)	Left	Right	
Guardrail Width	Left 1.042ft	Right 1.042ft	
Top of Rail to Deck/Wearing Surface	Left 2.5ft	Right 2.5ft	
Bridge Rail	Left Type 14	Right Type 14	

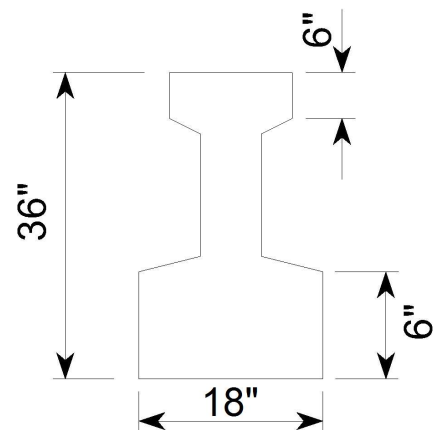


Measurements for Span #	1	SPANS 3 AND 5 SIMILAR	
Deck Thickness	0.583	Left Overhang	3.67
Top of Rail to Bottom of Beam	6.167	Right Overhang	3.67

Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	7ft	
2	PPC Girder	7ft	
3	PPC Girder	7ft	
4	PPC Girder	ft	

* MEASURED BETWEEN GUARDRAIL AT SOUTH END

MEASUREMENTS UPDATED 4/4/2017 BY MJM
 MEASUREMENTS VERIFIED BY RLK 4/29/19



Title

Superstructure

Description

Span 1

Bridge No: 770151

Drawn By: RBH

Date: 10/30/07

File Name: S0098000265

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.5ft	Between Rails	26.417ft
Clear Roadway	24ft	Wearing Surface	0.187ft
Median Width		Median Height	
Curb Height	Left	0.667ft	Right 0.667ft
Sidewalk Width	Left		Right
Clear Roadway (Rail to Median)	Left		Right
Guardrail Width	Left	1.042ft	Right 1.042ft
Top of Rail to Deck/Wearing Surface	Left	2.5ft	Right 2.5ft
Bridge Rail	Left	Type 14	Right Type 14



Measurements for Span #	2	SPAN 4 SIMILAR	
Deck Thickness	1.75	Left Overhang	0.75
Top of Rail to Bottom of Beam	4.083	Right Overhang	0.75

Number of Slabs	Slab Width	Slab Height	Comments
9	3ft	1.5ft	

MEASUREMENTS UPDATED 4/4/2017 BY MJM
 MEASUREMENTS VERIFIED BY SFS 4/29/19

Title
 Superstructure # 2

Description
 Span 4

Bridge No: 770151

Drawn By: RBH

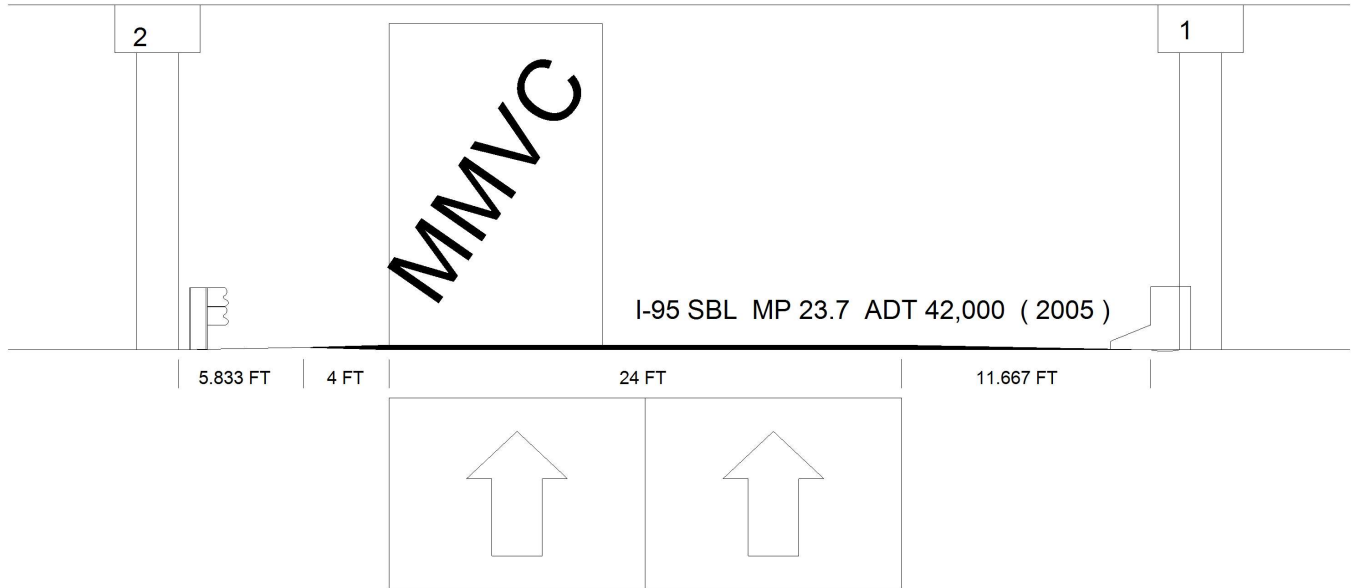
Date: 10/30/07

File Name: S0098000266

Bridge Inspection Field Sketch

SR: 1529 ADT 2,000 (2005)

Span 2



Roadway 1		Direction of Traffic	South
Distance to Left Rail	8.5FT	Distance to Right Rail	11.667FT
Distance to Left Toe of Slope		Distance to Left Bent	9.833FT
Distance to Right Toe of Slope		Distance to Right Bent	13FT
MMVC	16.167 Ft at Beam 1, 10 FT from 10' FROM LT EDGE OF PAVEMENT		
MVC	16.123 Ft at Beam 1, 0 FT from AT CENTERLINE OF ROADWAY		

MEASUREMENTS VERIFIED 4/4/2017 BY MJM

MEASUREMENTS VERIFIED BY RLK 4/29/19

Title

Underclearance # 1

Description

Span 2

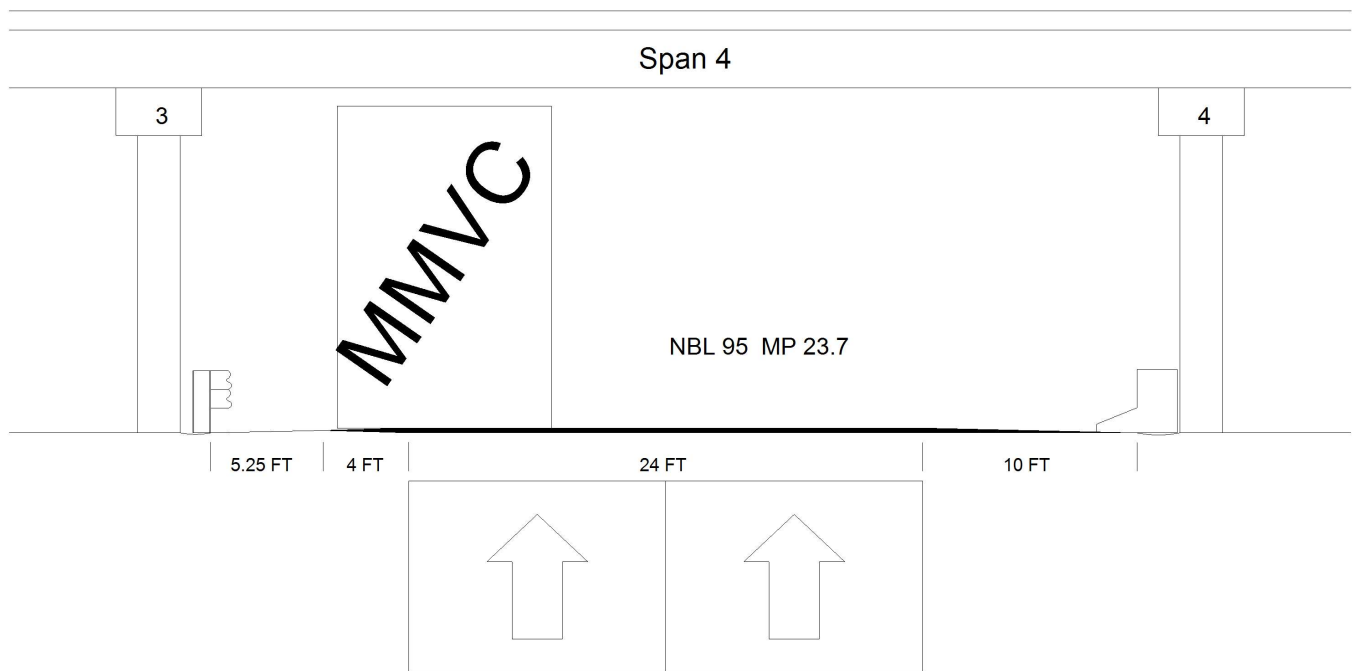
Bridge No: 770151

Drawn By: RLK

Date: 04/14/2011

File Name: S0098000267

Bridge Inspection Field Sketch

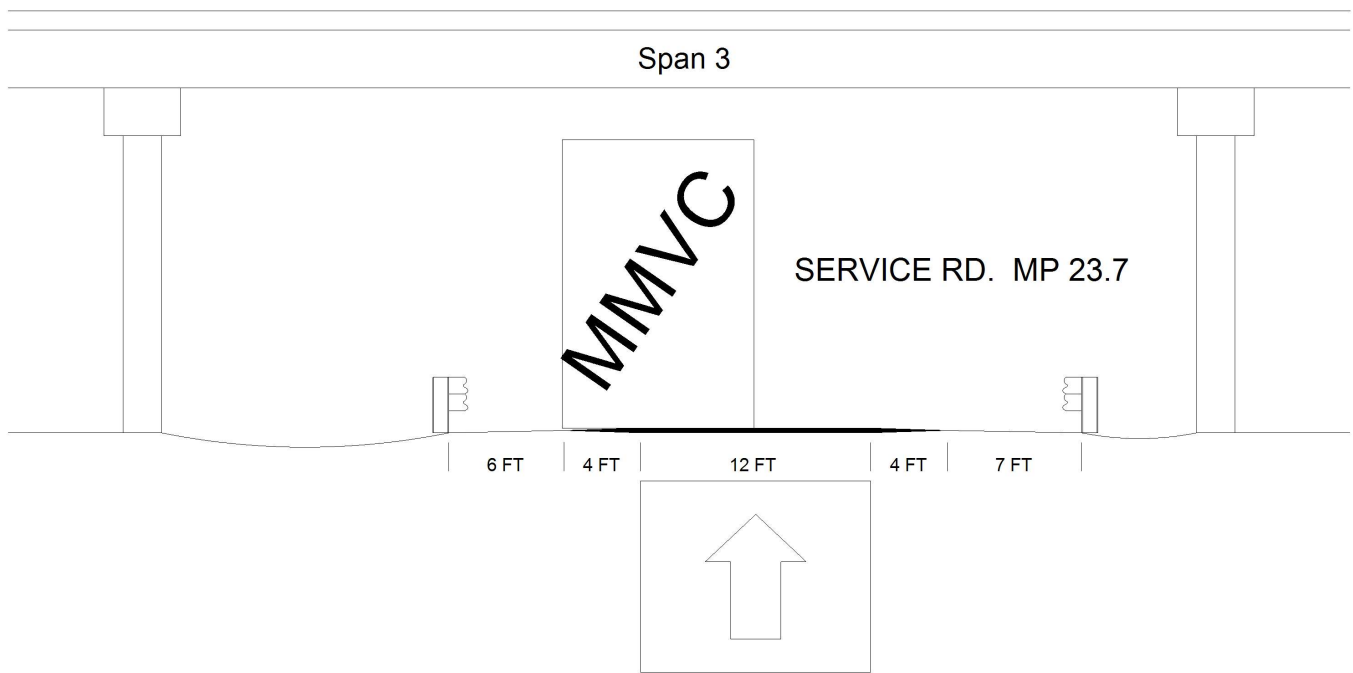


Roadway 1		Direction of Traffic	North
Distance to Left Rail	9.25FT	Distance to Right Rail	10FT
Distance to Left Toe of Slope		Distance to Left Bent	10.667FT
Distance to Right Toe of Slope		Distance to Right Bent	12FT
MMVC	16.5 Ft at Beam 10, 10 FT from LEFT EDGE OF PAVEMENT		
MVC	16.313 Ft at Beam 10, 0 FT from AT CENTERLINE OF ROADWAY		

MEASUREMENTS VERIFIED 4/4/2017 BY MJM
 MEASUREMENTS VERIFIED BY RLK 4/29/19

Title Underclearance # 2		Description Span 4	
Bridge No: 770151	Drawn By: RLK	Date: 04/14/2011	File Name: S0098000268

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	10FT	Distance to Right Rail	11FT
Distance to Left Toe of Slope	15FT	Distance to Left Bent	25FT
Distance to Right Toe of Slope		Distance to Right Bent	17FT
MMVC	15.5 Ft at Beam 1, 10 FT from LEFT EDGE OF PAVEMENT		
MVC	15.4 Ft at Beam 1, 0 FT from RIGHT EDGE OF TRAVEL LANE		

MEASUREMENTS UPDATED 4/4/2017 BY MJM
 MEASUREMENTS VERIFIED BY RLK 4/29/19

Title
 UNDERCLEARANCE 3

Description
 CONSTRUCTION ROAD

Bridge No: 770151

Drawn By: RLK

Date: 5/28/2009

File Name: S0098000816

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
30.167 ft.	3.250 ft.	4.417 ft.	7.250 ft.	7.250 ft.	2.500 ft.	2.833 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	15.667 ft.	2.5 ft.	3.25 ft.		Vertical	No	No	No	No
2	Concrete		2.5 ft.	3.25 ft.		Vertical	No	No	No	No
MEASUREMENTS VERIFIED BY SFS 4/29/19										
Bent/Abutment #: 1			Similar Bents: 2,3&4							

Title MEASUREMENTS VERIFIED 4/4/2017 BY MJM
SUBSTRUCTURE

Description
BENT 3

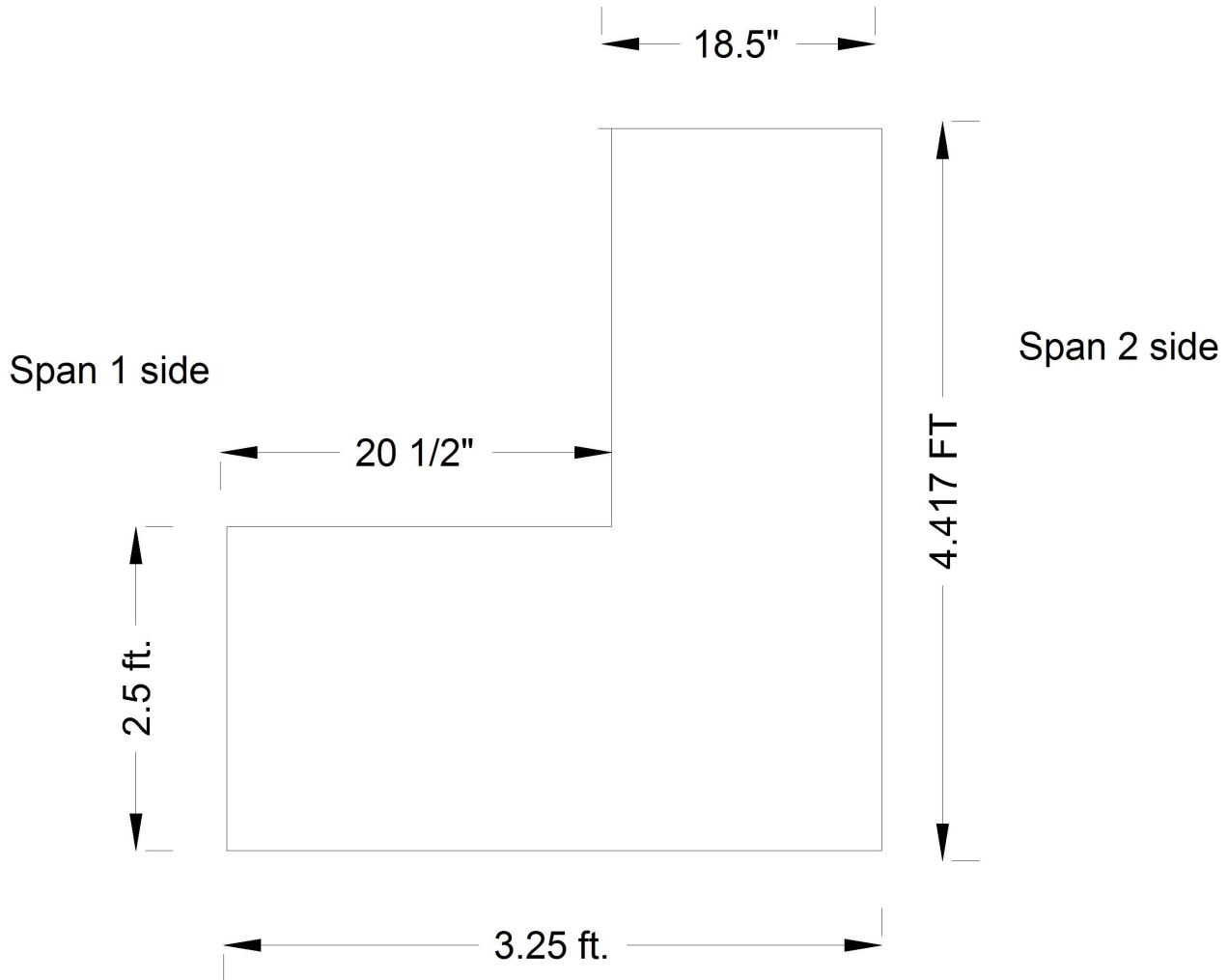
Bridge No: 770151

Drawn By: RLK

Date: 5/28/2009

File Name: S0098000817

Bridge Inspection Field Sketch



ALL INTERIOR BENTS ARE SIMILAR
MEASUREMENTS VERIFIED BY SFS 4/29/19

MEASUREMENTS VERIFIED 4/4/2017 BY MJM

Title
SUBSTRUCTURE 2

Description
END OF BENT

Bridge No: 770151

Drawn By: RLK

Date: 5/29/2009

File Name: S0098000818