NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: Changes to Structure Data, Temporary Shoring

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 05/01/2018

DIVISION: 6 **COUNTY:** ROBESON **STRUCTURE NUMBER:** 770165 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: I95 SBL **MILE POST:** 34.9

LOCATION: 0.8 MI.N. OF JCT SR1726

FEATURE INTERSECTED: LITTLE MARSH SWAMP

LATITUDE: 34° 51' 31.22" **LONGITUDE:** 78° 57' 56.87"

SUPERSTRUCTURE: RC FLOOR/PPC GIRDER

SUBSTRUCTURE: E.BT&INT.BTS:RC CAPS/PPC PILES @ 8'2 CTS.

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

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

GRADES: **DECK** 7 **SUPERSTRUCTURE** 6 **SUBSTRUCTURE** 7 **CULVERT** N

POSTED SV: Not Posted Not Posted **POSTED TTST:** Not Posted Not Posted

OTHER SIGNS PRESENT: None

South approach looking North

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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
JAMES TALACEK		DILLON WINTERS, EI

Structure Element Scoring

Structure Number: **770165**

Inspection Date **5/1/2018**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	5050	5048	0	2	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	608	608	0	0	0
202	0	Steel Column	Piles and Columns	8	8	0	0	0
515	202	Steel Protective Coating	Piles and Columns	22	22	0	0	0
204	0	Prestressed Concrete Column	Piles and Columns	1	0	1	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	11	0	11	0	0
231	0	Steel Pier Cap	Caps	164	164	0	0	0
515	231	Steel Protective Coating	Caps	1504	1504	0	0	0
233	0	Prestressed Concrete Pier Cap	Caps	84	84	0	0	0
313	0	Fixed Bearing	Bearing Device	32	6	26	0	0
515	313	Steel Protective Coating	Bearing Device	32	6	1	25	0
321	0	Reinforced Concrete Approach Slabs	Approaches	0	0	0	0	0
333	0	Other Bridge Railing	Bridge Rail	304	247	54	3	0
510	0	Wearing Surface	Wearing Surfaces	4239	4183	0	56	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **770165** Inspection Date: **05/01/2018**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	2 Square Feet
3318	Other Bridge Railing	Damage	20 Feet
3318	Other Bridge Railing	Delamination/Spall	37 Feet
2816	Wearing Surface	Crack (Wearing Surface)	56 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	26 Square Feet

Element Structure Maintenance Quantities

Structure Number: **770165** Inspection Date **05/01/2018**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	0	0	0	0	0	0
Beam	3306	Maintenance Concrete Superstructure Components	0	608	0	0	0	608
Bearing Device	3334	Bridge Bearing	0	32	0	0	26	6
Bearing Device	3342	Clean and Paint Steel	26	32	0	25	1	6
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	57	304	0	3	54	247
Caps	3342	Clean and Paint Steel	0	1504	0	0	0	1504
Caps	3348	Maintenance of Concrete Substructure	0	84	0	0	0	84
Caps	3354	Maintenance of Steel Substructure Components	0	164	0	0	0	164
Deck	3326	Maintenance of Concrete Deck	2	5050	0	2	0	5048
Piles and Columns	3342	Clean and Paint Steel	0	22	0	0	0	22
Piles and Columns	3348	Maintenance of Concrete Substructure	0	12	0	0	12	0
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	8	0	0	0	8
Wearing Surfaces	2816	Asphalt Surface Repair	56	4239	0	56	0	4183

Element Condition and Maintenance Data

Structure Number: **770165** Inspection Date: **05/01/2018**

Span 1 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 1 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 1 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 1 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,060	1,032	0	28	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

510	Crack (Wearing Surface)	asphalt over end bent 1, multiple transverse cracks [up to full width x up to 1/4in] with edge spalling [up to 1in]	3	28	28	Square Feet

General Comments

Span 1 — Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	14	24	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	along length of rail, vehicular impact damage [up to 20ft x up to 4in deflection]	2	20	20	Feet
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 1 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	34	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 1 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 — Beam 1 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

Protective Coatings)

General Comments

Span 1 Beam 3 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 Beam 4 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 1 Beam 2 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 2 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 2 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 2 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 2 — Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	34	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 2 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	34	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 2 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 1 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 2 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 3 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 — Beam 3 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 2 Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	2	1	1	Square Feet

General Comments

Span 2 Beam 4 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	paint failure with active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

at beam ends over interior bents, exposed strand ends

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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

at beam ends over interior bents, exposed strand ends

Span 3 Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	34	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 3 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	31	4	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	at far third, spall [8in x 4in x 1in deep]	3	1	1	Feet
333	Delamination/Spall	at rail post 4, spall [7in x 5in x 1in deep] [similar at rail post 6]	3	2	2	Feet
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	4	4	Feet

General Comments

Span 3 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 1 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 3 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 3 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 4 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 3 — Beam 2 Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,268	1,266	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	diaphragm at right overhang over bent 3, spall/delamination [10in x 10in x 3in deep] with one [1] exposed longitudinal rebar and one [1] exposed vertical stirrup [section loss up to 1/16in]	3	2	2	Square Feet
12	Cracking (RC and Other)	throughout underside of deck and overhangs, multiple horizontal and transverse cracks [up to full width of bay x hairline] with adjacent hairline map cracking	1	300		Square Feet

General Comments

Span 4 — 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	38	38	0	0	0	Feet
515	Steel Protective Coating	0	0	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 4 — 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 4 — 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

at beam ends over interior bents, exposed strand ends

Span 4 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	38	38	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

at beam ends over interior bents, exposed strand ends

Span 4 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,079	1,051	0	28	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	asphalt over end bent 2, multiple transverse cracks [up to full width x up to 1/2in] with edge spalling [up to 1in]	3	28	28	Square Feet

General Comments

Span 4 Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	33	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	5	5	Feet

General Comments

Span 4 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	38	33	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]	2	5	5	Feet

General Comments

Span 4 — Beam 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 1 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 3 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no section loss noted]	3	1	1	Square Feet

General Comments

Span 4 — Beam 4 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion [no loss noted]	3	1	1	Square Feet

General Comments

Bent 1 Pile 1

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 1 Pile 2

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 1 Pile 3

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 1 Pile 4

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 2 Pile 1

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 2 Pile 2

Prestressed Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
204	Prestressed Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
204	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 2 Pile 3

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 2 Pile 4

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 3 Pile 1

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 3 Pile 2

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 3 Pile 3

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Bent 3 Pile 4

Prestressed Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
226	Prestressed Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
226	Abrasion/Wear (PSC/RC)	waterline down 24in, abrasion [up to 1/16in]	2	1		Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1268
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1060
Span 1	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1257
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1050
Span 2	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1257
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1050
Span 3	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1268
Span 4	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	38
Span 4	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 4	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	38
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1079
Span 4	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 1 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 2 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 3 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 3 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 4 Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Beam 4 Near Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	28
Bent 1	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	28
Bent 2	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 2	Prestressed Concrete Column	Prestressed Concrete Column	1
Bent 2	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Cap 1	Prestressed Concrete Pier Cap	Prestressed Concrete Pier Cap	28
Bent 3	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Crutch Bent 1 Span 2	Cap 1	Steel Pier Cap	Steel Pier Cap	41
Crutch Bent 1 Span 2	Pile 1	Steel Column	Steel Column	1
Crutch Bent 1 Span 2	Pile 2	Steel Column	Steel Column	1
Crutch Bent 1 Span 3	Cap 1	Steel Pier Cap	Steel Pier Cap	41
Crutch Bent 1 Span 3	Pile 1	Steel Column	Steel Column	1
Crutch Bent 1 Span 3	Pile 2	Steel Column	Steel Column	1
Crutch Bent 2 Span 3	Cap 1	Steel Pier Cap	Steel Pier Cap	41
Crutch Bent 2 Span 3	Pile 1	Steel Column	Steel Column	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Crutch Bent 2 Span 3	Pile 2	Steel Column	Steel Column	1
Crutch Bent 1 Span 4	Cap 1	Steel Pier Cap	Steel Pier Cap	41
Crutch Bent 1 Span 4	Pile 1	Steel Column	Steel Column	1
Crutch Bent 1 Span 4	Pile 2	Steel Column	Steel Column	1

General Inspection Notes

Span 1 Beam 1

at beam ends over interior bents, exposed strand ends

Span 1 Beam 2

at beam ends over interior bents, exposed strand ends

Span 1 Beam 3

at beam ends over interior bents, exposed strand ends

Span 1 Beam 4

at beam ends over interior bents, exposed strand ends

Span 2 Beam 1

at beam ends over interior bents, exposed strand ends

Span 2 Beam 2

at beam ends over interior bents, exposed strand ends

Span 2 Beam 3

at beam ends over interior bents, exposed strand ends

Span 2 Beam 4

at beam ends over interior bents, exposed strand ends

Span 3 Beam 1

at beam ends over interior bents, exposed strand ends

Span 3 Beam 2

at beam ends over interior bents, exposed strand ends

Span 3 Beam 3

at beam ends over interior bents, exposed strand ends

Span 3 Beam 4

at beam ends over interior bents, exposed strand ends

Span 4 Beam 1

at beam ends over interior bents, exposed strand ends

Span 4 Beam 2

at beam ends over interior bents, exposed strand ends

Span 4 Beam 3

at beam ends over interior bents, exposed strand ends

Span 4 Beam 4

at beam ends over interior bents, exposed strand ends

National Bridge and NC Inspection Items

Structure Number: 770165 **Inspection Date:** 05/01/2018

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	**7**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**7**
Item 72: Approach Roadway Alignment	0 - 9 , N	**8**

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**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	**G**	**0**	**3352**
Scour	G, F, P, or C	**G**		
Wingwall	G, F, P, or C	**G**	**0**	**3350**
Field Scour Evaluation		**O**		
Drift	G, F, P, or C	**G**	**0**	**3366**
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Estimated Remaining Life	0 - 100 Years	**25**		
Superstructure Paint Code				

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

Inspection Information

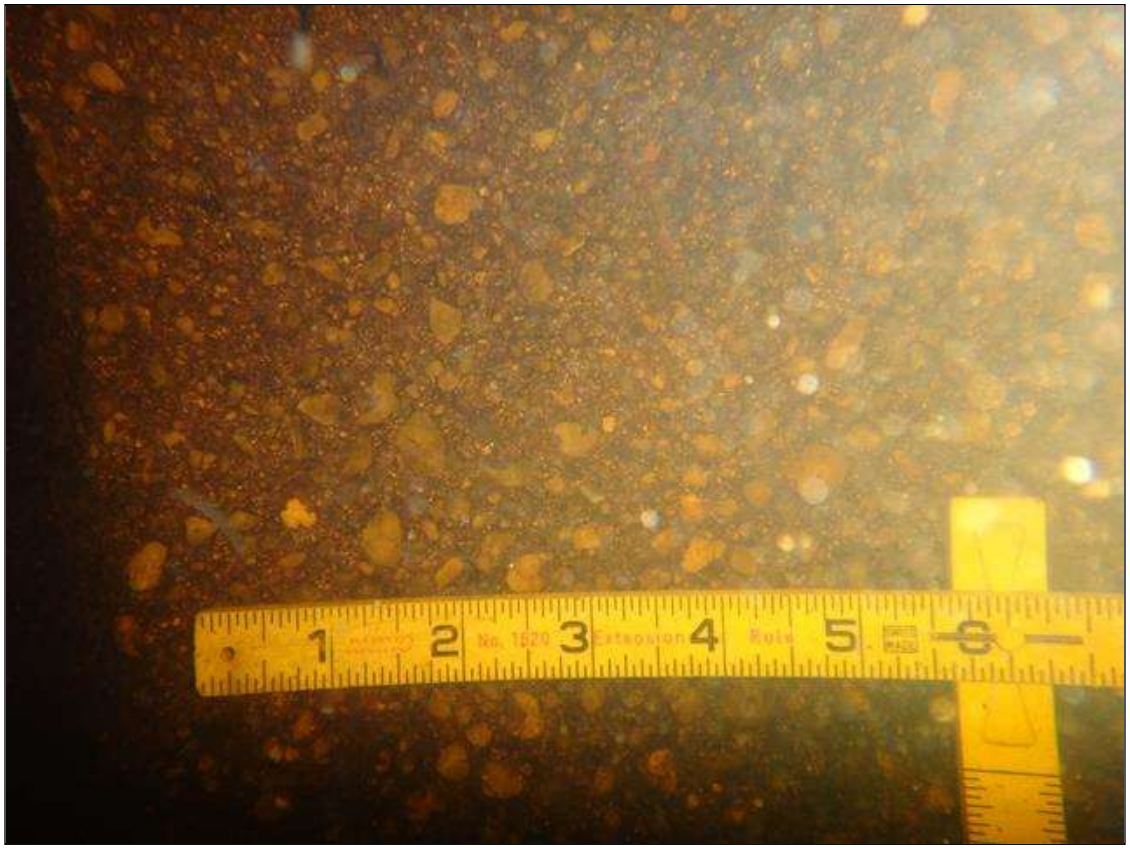
Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**N**
Inspection Time	Hours	**5**
Traffic Control Time	Hours	**0**
Snooper Time	Hours	**0**
Ladder Used	YES/NO	**N**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**Y**

National Bridge and NC SMU Inspection Item Details

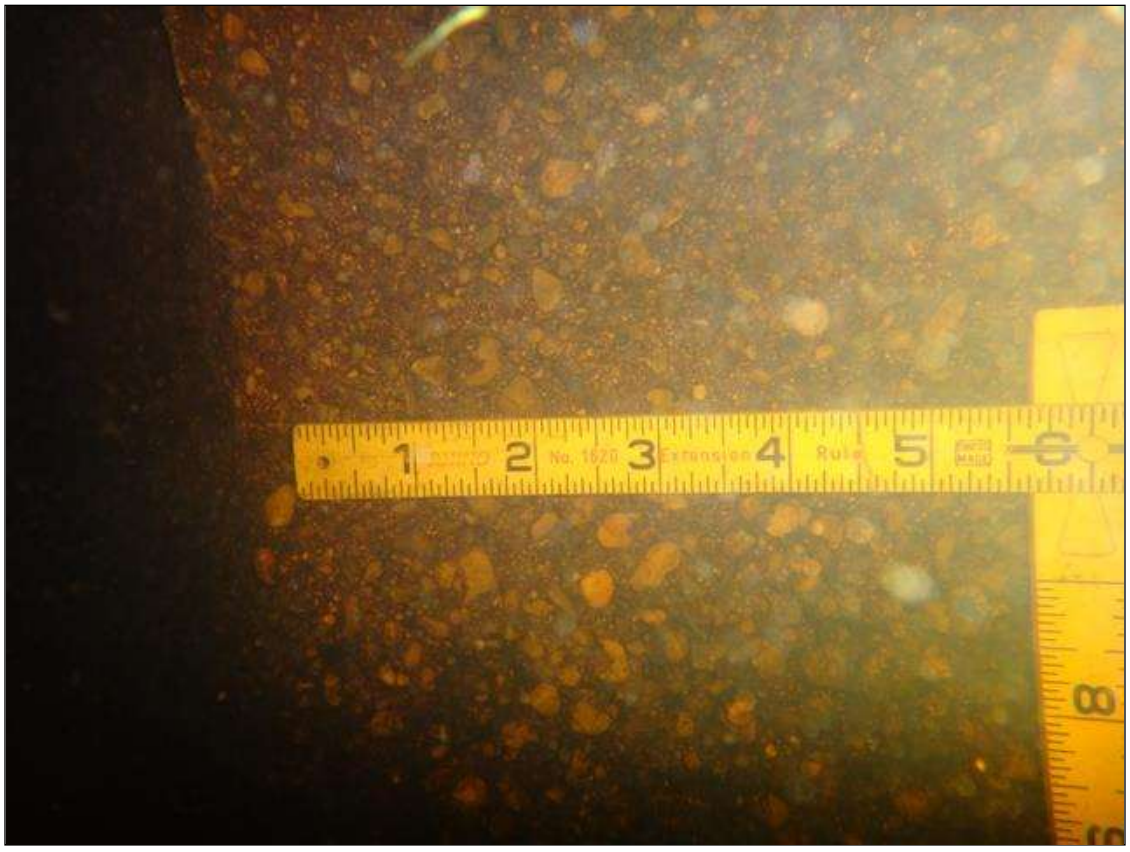
Structure Number: 770165 **Inspection Date:** 05/01/2018

Item	Other Equipment Used	**Grade**	Y	**Maint Code**	**Qty.** 0
Details	Wetsuit, Mask, Fins				

Item	General Comments and Misc Items	**Grade**		**Maint Code**	**Qty.** 0
Details	South approach asphalt: throughout South approach asphalt, multiple longitudinal and transverse cracks [up to 25ft x up to 1/8in] North approach asphalt: 25ft from end bent 2, pothole [10in x 5in x up to 2in deep] Northwest guardrail: at North approach, vehicular impact damage [25ft long] with multiple gouges [up to 5in x 3in]				



Bent 3 Pile 1: waterline down 24in, abrasion [up to 1/16in]



Bent 3 Pile 1: waterline down 24in, abrasion [up to 1/16in]

Span 4 Deck: diaphragm at right overhang over bent 3, spall/delamination [10in x 10in x 3in deep] with one [1] exposed longitudinal rebar and one [1] exposed vertical stirrup [section loss up to 1/16in]

exposed strand ends over interior bents [similar at all beams]

Span 4 Beam 4 Near Bearing: active surface corrosion [no section loss noted]

Span 1 Right Bridge Rail: along length of rail at guardrail connections, multiple spalls [up to 5in diameter x up to 1in deep]

Span 3 Right Bridge Rail: at rail post 4, spall [7in x 5in x 1in deep] [similar at rail post 6]

Span 3 Right Bridge Rail: at far third, spall [8in x 4in x 1in deep]

Span 4 Wearing Surface: asphalt over end bent 2, multiple transverse cracks [up to full width x up to 1/2in] with edge spalling [up to 1in]

Northwest guardrail: at North approach, vehicular impact damage [25ft long] with multiple gouges [up to 5in x 3in]

end bent 2 and slope protection

bent 3 [crutch bents at South and North faces]

typical end diaphragm

typical interior diaphragm

typical underside of deck

looking upstream [West] from underneath bridge

looking [East] at bent 3

typical superstructure framing

looking downstream [East] from underneath bridge

typical beam over interior bent

typical interior bearing

typical bearing at crutch bent

East profile looking West

West profile looking East

Northwest wingwall

typical deck drain

Northeast wingwall

typical end bearing

bent 2 [crutch bents at South and North faces]

bent 1

end bent 1 and slope protection

Southeast wingwall

Southwest wingwall

Northeast guardrail and end treatment

Northwest guardrail and end treatment

typical guardrail post transition spacing

North approach asphalt

North approach looking South

asphalt over end bent 2

typical wearing surface

asphalt over bent 3

North approach looking North

typical guardrail attachement to bridge rail

asphalt over bent 2

asphalt over bent 1

South approach looking South

asphalt over end bent 1

South approach asphalt

Southwest corner [guardrail not attached to bridge rail]

Southwest guardrail looking South

South approach looking North

Southeast guardrail looking South

left bridge rail

right bridge rail

Stream Bed Soundings

(Profile diagram on following sheet)

County **ROBESON** Structure Number: **770165** Inspection Date **05/01/2018**

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

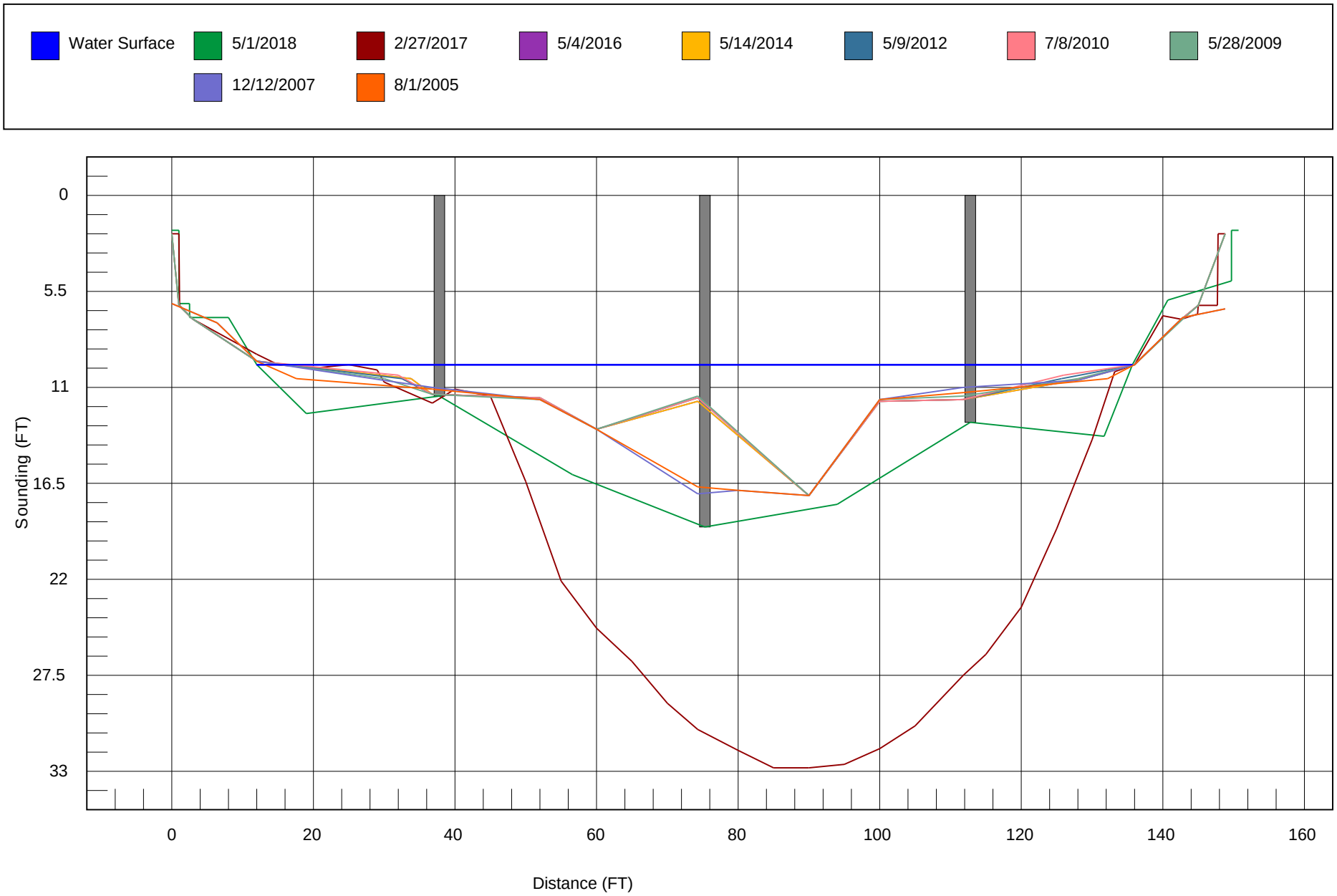
Highwater Mark Distance Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.000	0.000	fill face
1.000	2.000	0.000	face of backwall
1.010	6.200	0.000	cap at backwall
2.500	6.200	0.000	face of cap
2.510	7.000	0.000	top of slope protection
8.000	7.000	0.000	face of slope protection
12.000	9.700	0.000	ws/we
19.000	12.500	0.000	streambed
37.800	11.500	11.800	bent 1
56.600	16.000	0.000	streambed
75.300	19.000	21.500	bent 2
94.000	17.700	0.000	streambed
112.800	13.000	18.300	bent 3
131.700	13.800	0.000	streambed
135.700	9.700	0.000	ws/we
140.700	6.000	0.000	rip rap slope protection
149.690	4.900	0.000	rip rap slope protection
149.700	2.000	0.000	face of backwall
150.700	2.000	0.000	fill face

Bridge: 770165 County: ROBESON Date: 05/01/2018

STREAMBED PROFILE (Downstream)

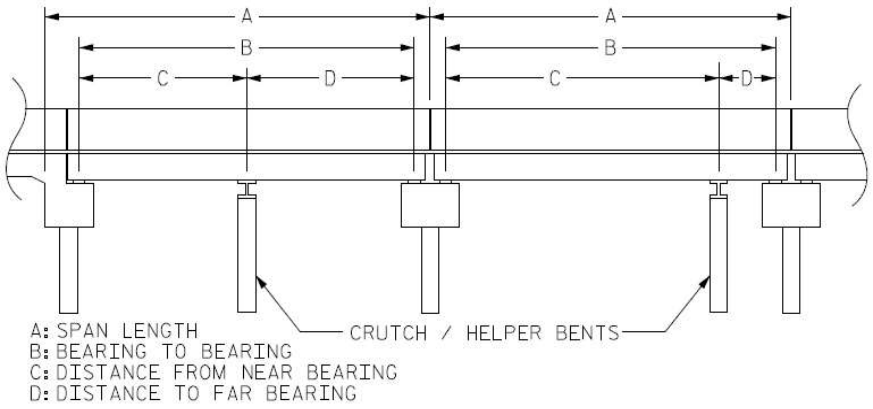
Top of Rail = 0FT (Sounding)



Structure Data Worksheet

Span Profile

County: **ROBESON** Structure Number: **770165**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	37.833	35.916			
2	37.500	36.417			
			1	34.500	3.000
3	37.500	36.417			
			1	3.120	34.380
			2	34.250	3.250
4	37.833	35.916			
			1	2.920	34.910

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 08/07/2018

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **770165**
(8) STRUCTURE NUMBER(FEDERAL) 000000001550165
(5) INVENTORY ROUTE (ON/UNDER) - ON 11000950
(2) STATE HIGHWAY DEPARTMENT DISTRICT 1
(3) COUNTY CODE 155 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - LITTLE MARSH SWAMP
(7) FACILITY CARRIED I95S
(9) LOCATION 0.8 MI.N. OF JCT SR1726
(11)MILEPOINT 34.9
(16)LAT 34° 51' 31.22" (17)LONG 78° 57' 56.87"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Prestressed Concrete
TYPE - Stringer Mutlibeam or Girder CODE 502
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 4
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 1 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

AGE AND SERVICE

(27) YEAR BUILT 1959
(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 22000
(30) YEAR OF ADT 2015 (109) TRUCK ADT PCT 23%
(19) BYPASS OR DETOUR LENGTH 16 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 36 FT
(49) STRUCTURE LENGTH 151 FT
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT 0 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 28 FT
(52) DECK WIDTH OUT TO OUT 31.5 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 28 FT
(33) BRIDGE MEDIAN - No Median CODE 1
(34) SKEW 0° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
(56) MIN LAT UNDERCLEAR LT REF - 000 FT

NAVIGATION DATA

(38) NAVIGATION CONTROL - No Navigational Control CODE 0
(111)PIER PROTECTION - CODE
(39) NAVIGATION VERTICAL CLEARANCE 0
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

SUFFICIENCY RATING = 50.44
STATUS = Functionally Obsolete

CLASSIFICATION — CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is on the NHS 1
(26) FUNCTIONAL CLASS - Arterial - Interstate 01
(100)STRAHNET HIGHWAY - Interstate STRAHNET Route 1
(101)PARALLEL STRUCTURE - Left Parallel Structure L
(102)DIRECTION OF TRAFFIC - 1-way Traffic 1
(103)TEMPORARY STRUCTURE -
(110)DESIGNATED NATIONAL NETWORK - On the National Network 1
(20) TOLL On Free Road 3
(31) MAINTAIN - State Highway Agency 01
(22) OWNER - State Highway Agency 01
(37) HISTORICAL SIGNIFICANCE - Not Eligible 5

CONDITION — CODE

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

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD HS 20 + MOD 6
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-21 37
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-12 22
(70) BRIDGE POSTING - No Posting Required 5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED A
DESCRIPTION - Open, No Restriction

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 5
(68) DECK GEOMETRY 2
(69) UNDERCLEARANCES,VERTI & HORIZ N
(71) WATERWAY ADEQUACY 7
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 1111
(113)SCOUR CRITICAL BRIDGES 8

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114)FUTURE ADT 44000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 05/01/2018
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - YES 48Mo B) 02/16/2015
C) OTHER SPECIAL INSP NO C)
SCOUR

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 08/07/2018

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
ROBESON	6	1	770165	151 FEET

ROUTE CARRIED : I95S

FEATURE INTERSECTED : LITTLE MARSH SWAMP

LOCATED : 0.8 MI.N. OF JCT SR1726

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
01	FA	NFA	22000 2015	LT 333 RT 333

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1959	SHC	8.13962		HS 20 + MOD

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN.	90	ON 2 UNDER 0

NAVIGATION :		HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT	HC 0 FT	17 FT	9 FT

SUPERSTRUCTURE : RC DECK ON PPC GIRDER

SUBSTRUCTURE : E.BT&INT.BTS:RC CAPS/PPC PILES @ 8'2 CTS.

SPANS : 1 @ 37'10;2 @ 37'6;1 @ 37'10

BEAMS OR GIRDERS : 4 LINES 18X35 PPC GIRDERS @ 8' CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7" RC/3" AWS		31.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
28 FT	28 FT	LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-12	HS-21		SV	TTST	DATE 01/01/0001

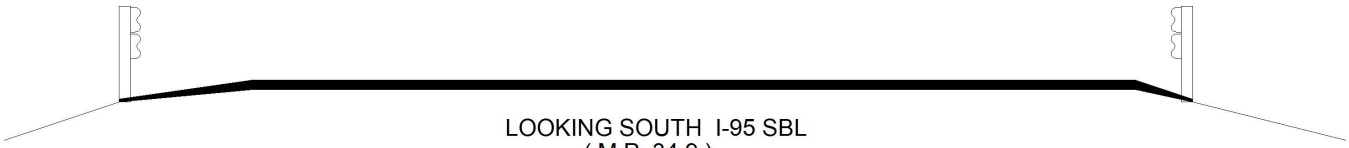
SYSTEM : Primary Interstate

GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

REMARKS :

Bridge Inspection Field Sketch



LOOKING SOUTH I-95 SBL
(M.P. 34.9)

Roadway	23ft Wide	2 Paved Lanes	Looking South
Left Shoulder	6.5ft Wide	3.5ft Paved	3ft Unpaved
Right Shoulder	5.5ft Wide	1.5ft Paved	4ft Unpaved
Left Guardrail	3.5ft from road		
Right Guardrail	1.5ft from road		

Measurements Taken at North Approach

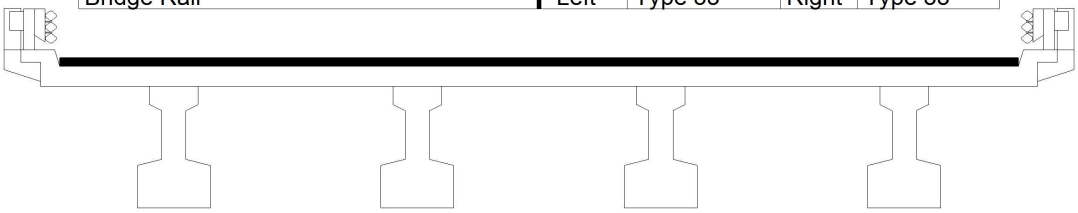
All Measurements Revised: J. Talacek 05/01/2018

Title	**Description**
Approach Roadway Sketch	Data Worksheet

Bridge No: 770165	**Drawn By:** RLK	**Date:** 5/14/2014	**File Name:** S0098000262

Bridge Inspection Field Sketch

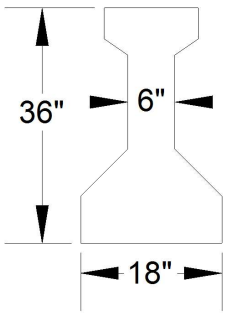
Deck Width/Out to Out	31.5ft*	Between Rails				28ft
Clear Roadway	28ft	Wearing Surface				0.25ft
Median Width		Median Height				
Curb Height		Left	0.583ft	Right	0.583ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	2.25ft	Right	2.25ft	
Top of Rail to Deck/Wearing Surface		Left	2.333ft	Right	2.333ft	
Bridge Rail		Left	Type 33	Right	Type 33	



Measurements for Span #	1		
Deck Thickness	0.583ft	Left Overhang	3.75ft*
Top of Rail to Bottom of Beam	6.083ft	Right Overhang	3.75ft*

Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	8ft	
2	PPC Girder	8ft	
3	PPC Girder	8ft	
4	PPC Girder		

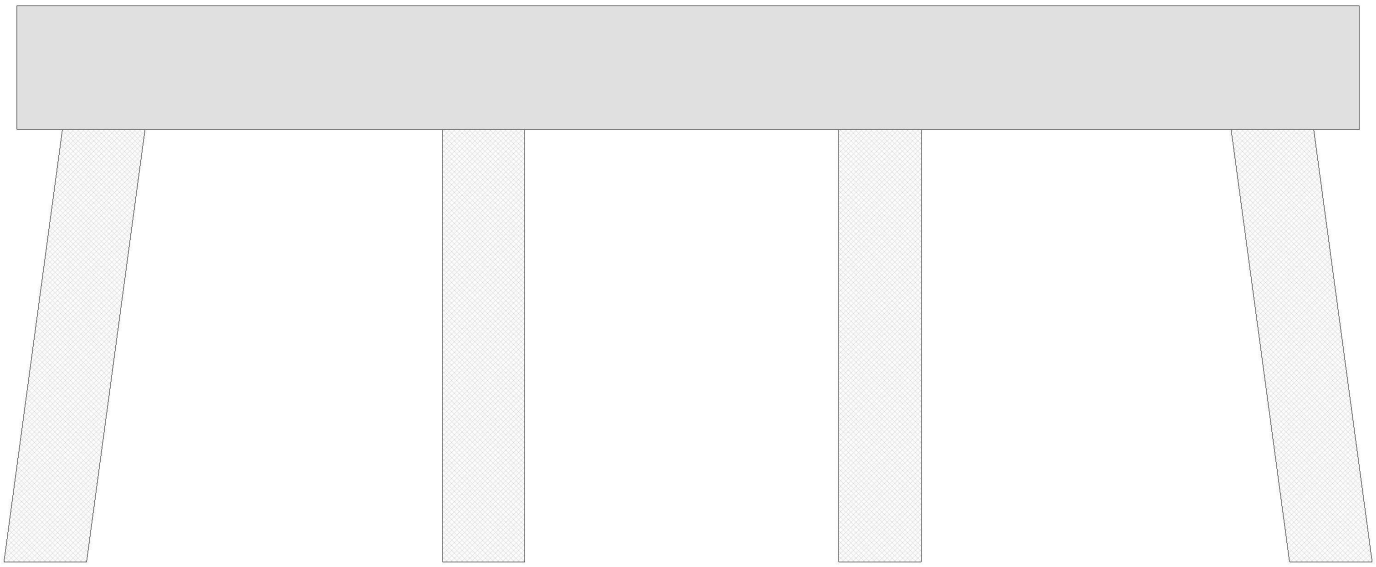
Typical Girder Detail
N.T.S.



Measurements Revised: J. Talacek 05/01/2018

Title	**Description**		
Typical Section Sketch	Data Worksheet		
Bridge No: 770165	**Drawn By:** RLK	**Date:** 5/09/2012	**File Name:** S0098000263

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.
27.083 ft.	3.000 ft.	2.500 ft.	1.750 ft.	1.750 ft.	1.917 ft.	1.833 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	7.667 ft.	1.667 ft.			Battered	Yes	No	No	No
2	Concrete	8 ft.	1.667 ft.			Vertical	Yes	No	No	No
3	Concrete	7.917 ft.	1.667 ft.			Vertical	Yes	No	No	No
4	Concrete		1.667 ft.			Battered	Yes	No	No	No

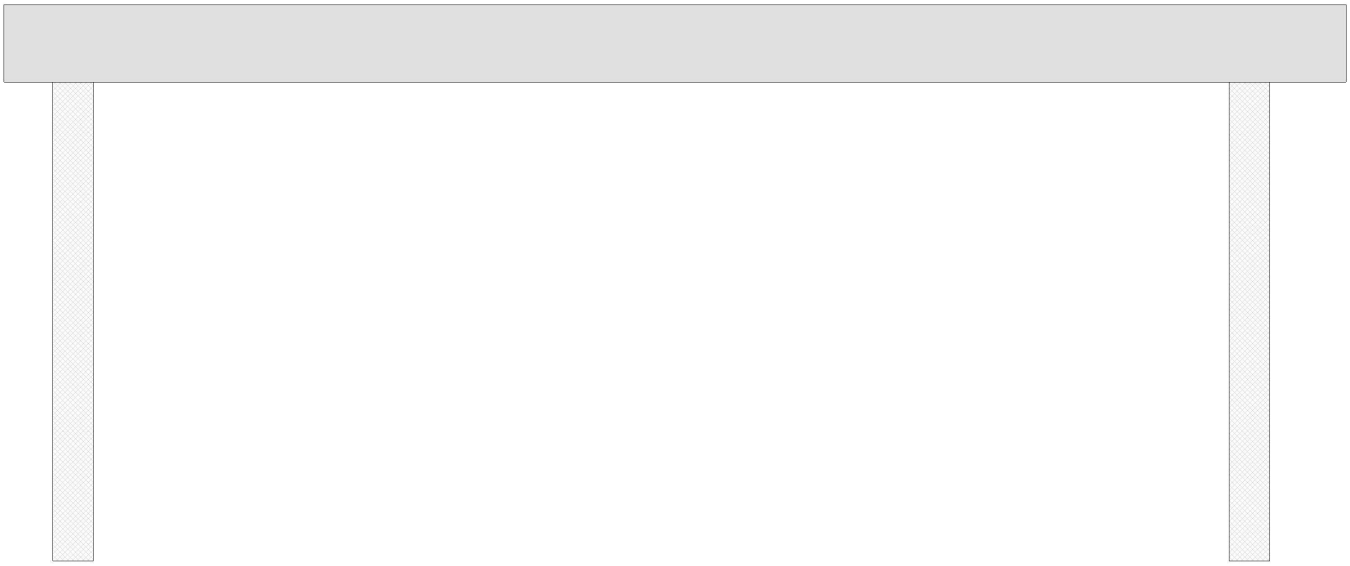
Bent #: 1

Measurements Verified: J. Talacek 05/01/2018

Title	**Description**
Typical Bent Sketch	Data Worksheet

Bridge No: 770165	**Drawn By:** RLK	**Date:** 5/28/2009	**File Name:** S0098000819

Bridge Inspection Field Sketch



Cap Information			Material Steel			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
40.500 ft.	1.188 ft.	2.334 ft.	2.084 ft.	2.917 ft.		

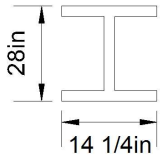
Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Steel	35.5 ft.	1.15 ft.			Vertical	Yes	No	No	No
2	Steel		1.15 ft.			Vertical	Yes	No	No	No

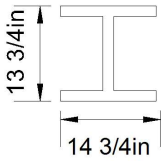
Crutch Bent #: 1 Similar Crutch Bents: 2, 3, and 4

Cap Detail
N.T.S.



Flange Thickness: 1 1/2in
Web Thickness: 1in

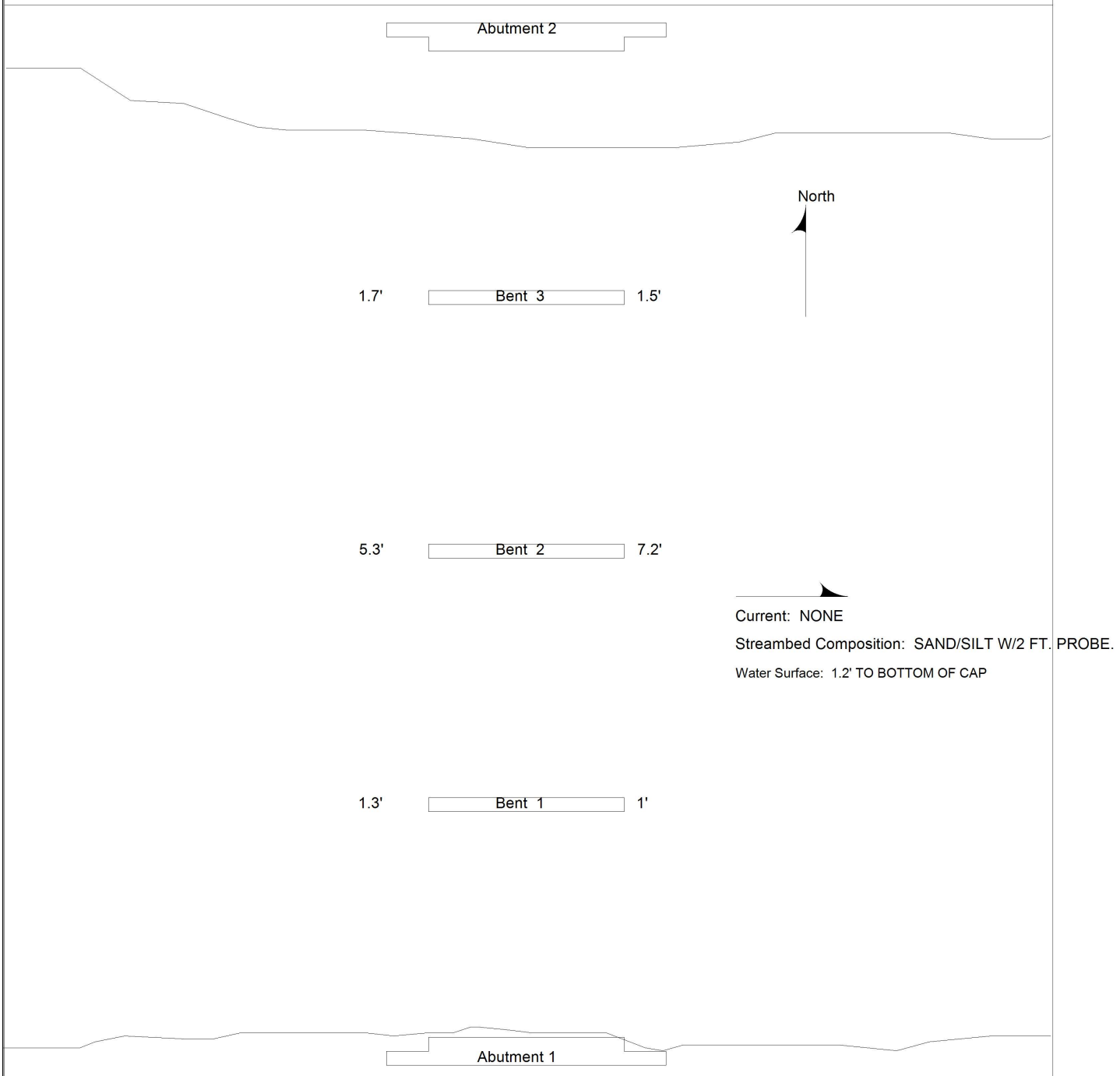
Pile Detail
N.T.S.



Flange Thickness: 1/2in
Web Thickness: 1in

Title	**Description**		
Typical Crutch Bent Sketch	Data Worksheet		
Bridge No: 770165	**Drawn By:** DLW	**Date:** 5/1/2018	**File Name:** S0586000011

Bridge Inspection Field Sketch



Title	Description
PLAN VIEW	WATERWAY

Bridge No:	Drawn By:	Date:	File Name:
770165	BZC	03/01/2007	S0158000353