NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

Structure Safety Report

Routine Element Inspection

INSPECTION DATE: 08/07/2019

DIVISION: 6 **COUNTY:** ROBESON **STRUCTURE NUMBER:** 770169 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1718 **MILE POST:**

LOCATION: 0.3 MI. E. JCT. US301

FEATURE INTERSECTED: I95

LATITUDE: 34° 54' 29.45" **LONGITUDE:** 78° 57' 22.13"

SUPERSTRUCTURE: RC FLOOR/PPC GDRS.& PPC CORED SLABS

SUBSTRUCTURE: EBTS:RC CAPS/PRESTR.CONC.PILES;INT.BTS:RCP&BEAM

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

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

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

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

OTHER SIGNS PRESENT: NONE

LOOKING EAST

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 W-E

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Ray L. Kisner	Ray L. Kisner	Samuel F. Spillers

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

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **770169**
(8) STRUCTURE NUMBER (FEDERAL) **1550169**
(5) INVENTORY ROUTE (ON/UNDER) ON **31017180**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **6**
(3) COUNTY CODE (FEDERAL) **155** (4) PLACE CODE **0**
(6) FEATURE INTERSECTED **I95**
(7) FACILITY CARRIED **SR1718**
(9) LOCATION **0.3 MI. E. JCT. US301**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **34° 54' 29.45"** (17) LONGITUDE **78° 57' 22.13"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Prestressed Concrete**
TYPE **Stringer/Multi-beam or girder** CODE **502**
(44) STRUCTURE TYPE APPROACH **Prestressed Concrete**
TYPE **Slab** CODE **501**
(45) NUMBER OF SPANS IN MAIN UNIT **3**
(46) NUMBER OF SPANS IN APPROACH **1**
(107) DECK STRUCTURE TYPE CODE **1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM
(A) TYPE OF WEARING SURFACE CODE **6**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1959**
(106) YEAR RECONSTRUCTED **0.000000**
(42) TYPE OF SERVICE ON - **Highway**
OFF - **Highway** CODE **11**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **4**
(29) AVERAGE DAILY TRAFFIC **540**
(30) YEAR OF ADT **2013** (109) TRUCK ADT PCT **6**
(19) BYPASS OR DETOUR LENGTH **5.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **54.0**
(49) STRUCTURE LENGTH **220.0**
(50) CURB OR SIDEWALK: LEFT **1.1** RIGHT **1.1**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **24.0**
(52) DECK WIDTH OUT TO OUT **27.1**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **24.0**
(33) BRIDGE MEDIAN CODE **7**
(34) SKEW **7** (35) STRUCTURE FLARED **7**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **H** **16.4**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **9.6**
(56) MIN LAT UNDERCLEARANCE LT: **16.3**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **N**
(111) PIER PROTECTION CODE
(39) NAVIGATION VERTICAL CLEARANCE **0.0**
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR **0.0**
(40) NAVIGATION HORIZONTAL CLEARANCE **0.0**

SUFFICIENCY RATING **78.630000**
STATUS = **Functionally Obsolete**

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Rural Local** **09**
(100) STRAHNET HIGHWAY **Not a STRAHNET Route** **0**
(101) PARALLEL STRUCTURE **0**
(102) DIRECTION OF TRAFFIC **2-way traffic** **2**
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - **on national network for trucks** **0**
(20) TOLL **On Free Road** **3**
(21) MAINT - **01**
(22) OWNER - **01**
(37) HISTORICAL SIGNIFICANCE - **5**

CONDITION — CODE

(58) DECK **7**
(59) SUPERSTRUCTURE **7**
(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-39** **75**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-16** **31**
(70) BRIDGE POSTING **No Posting Required** **5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **A**
DESCRIPTION **Open, no restriction**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **7**
(68) DECK GEOMETRY **4**
(69) UNDERCLEARANCES, VERT & HORIZ **3**
(71) WATERWAY ADEQUACY **N**
(72) APPROACH ROADWAY ALIGNMENT **8**
(36) TRAFFIC SAFETY FEATURES **N**
(113) SCOUR CRITICAL BRIDGES **N**

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 **1,080** YEAR OF FUTURE ADT **2025**

INSPECTION

(90) INSPECTION DATE **08/17** (91) FREQUENCY **24**
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL **0** A)
B) UNDERWATER INSP **0** B)
C) OTHER SPECIAL INSP **0** C)
SCOUR

Structure Element Scoring

Structure Number: **770169**

Inspection Date **8/7/2019**

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	2923	2863	60	0	0
15	0	Prestressed Concrete Top Flange	Beam	2970	2970	0	0	0
104	0	Prestressed Concrete Closed Web/Box Gir	Beam	990	987	3	0	0
521	104	Concrete Protective Coating	Beam	162	162	0	0	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	440	440	0	0	0
205	0	Reinforced Concrete Column	Piles and Columns	6	6	0	0	0
215	0	Reinforced Concrete Abutment	Abutments	76	75	1	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	8	8	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	14	14	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	154	153	1	0	0
301	0	Pourable Joint Seal	Expansion Joints	81	81	0	0	0
310	0	Elastomeric Bearing	Bearing Device	36	36	0	0	0
316	0	Other Bearings	Bearing Device	16	4	12	0	0
515	316	Steel Protective Coating	Bearing Device	32	21	11	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	442	438	4	0	0
510	0	Wearing Surface	Wearing Surfaces	5286	4914	48	324	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **770169** Inspection Date: **08/07/2019**

MMS Code	Element Name	Defect Name	Recommended Quantity
2816	Wearing Surface	Crack (Wearing Surface)	324 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	11 Square Feet

Element Structure Maintenance Quantities

Structure Number: **770169** Inspection Date **08/07/2019**

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	76	0	0	1	75
Beam	3306	Maintenance Concrete Superstructure Components	0	1430	0	0	3	1427
Beam	3326	Maintenance of Concrete Deck	0	2970	0	0	0	2970
Beam	5603	Partial Cleaning and Painting of Structural Steel	0	162	0	0	0	162
Bearing Device	3334	Bridge Bearing	0	52	0	0	12	40
Bearing Device	3342	Clean and Paint Steel	11	32	0	0	11	21
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	442	0	0	4	438
Caps	3348	Maintenance of Concrete Substructure	0	154	0	0	1	153
Deck	3326	Maintenance of Concrete Deck	0	2923	0	0	60	2863
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	81	0	0	0	81
Footing	3348	Maintenance of Concrete Substructure	0	8	0	0	0	8
Piles and Columns	3348	Maintenance of Concrete Substructure	0	20	0	0	0	20
Wearing Surfaces	2816	Asphalt Surface Repair	324	5286	0	324	48	4914

Element Condition and Maintenance Data

Structure Number: **770169** Inspection Date: **08/07/2019**

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,326	1,278	24	24	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	UP TO .103 FT. WIDE TRANSVERSE CRACK OVER END BENT 1	3	24	24	Square Feet
510	Crack (Wearing Surface)	.005 WIDE TRANSVERSE CRACK OVER BENT 1	2	24		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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	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	1,320	1,070	0	250	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	LONGITUDINAL REFLECTIVE CRACKING UP TO .010 WIDE, RT LANE, LT SHOULDER AND RIGHT SHOULDER	3	250	250	Square Feet

General Comments

Span 2 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	55	51	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	2 HAIRLINE VERTICAL CRACKS AT POST 2 AND 2 HAIRLINE VERTICAL CRACKS AT POST 8	2	4		Feet

General Comments

Span 2 — Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	27	27	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

NOT VISIBLE

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	165	165	0	0	0	Square Feet
104	Prestressed Concrete Closed Web/Box Girder	55	54	1	0	0	Feet
521	Concrete Protective Coating	9	9	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
104	Damage	OUTBOARD LOWER SIDE OF THE SLAB HAS PAST IMPACT DAMAGE, APPROX 1'L X UP TO 5"W X UP TO 2"D, CENTERED OVER THE RT SOUTHBOUND LANE	2	1		Feet

General Comments

Span 2 Slab 5

Prestressed Concrete Cored Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	165	165	0	0	0	Square Feet
104	Prestressed Concrete Closed Web/Box Girder	55	54	1	0	0	Feet
521	Concrete Protective Coating	9	9	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
104	Delamination/Spall	LOWER SIDE OF THE SLAB AT THE LEADING CORNER HAS PAST IMPACT DAMAGE, APPROX 2"LINE X UP TO 4"W X UP TO 1"D CENTERED OVER THE RT SOUTHBOUND LANE	2	1		Feet

General Comments

Span 2 Slab 9

Prestressed Concrete Cored Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	165	165	0	0	0	Square Feet
104	Prestressed Concrete Closed Web/Box Girder	55	54	1	0	0	Feet
521	Concrete Protective Coating	9	9	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
104	Damage	LOWER SIDE OF THE SLAB AT THE LEADING CORNER HAS PAST IMPACT DAMAGE, APPROX 4"LINE X UP TO 4"W X UP TO 1"D CENTERED OVER THE RT SOUTHBOUND LANE	2	1		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	1,320	1,270	24	26	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	OVER BENT 3, FULL WIDTH TRANSVERSE CRACKING UP TO .042 WIDE WITH IMPENDING POPOUTS	3	26	26	Square Feet

510	Crack (Wearing Surface)	.005 WIDE TRANSVERSE CRACK OVER BENT 2	2	24	Square Feet

General Comments

Span 3 — Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	27	27	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

NOT VISIBLE

Span 4 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,458	1,398	60	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	60 Square Feet of transverse Cracking (RC and Other): Width up to 1/32" with efflorescence near mid-span ON UNDERSIDE OF DECK	2	60		Square Feet

General Comments

Span 4 — Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	27	27	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

NOT VISIBLE

Span 4 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,320	1,296	0	24	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	.005 TO .020 WIDE TRANSVERSE CRACK OVER END BENT 2	3	24	24	Square Feet

General Comments

Span 4 — 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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	Square Feet

General Comments

Span 4 — 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	2	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each

General Comments

Span 4 — 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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	Square Feet

General Comments

Span 4 — 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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	Square Feet

General Comments

Span 4 — 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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	Square Feet

General Comments

Span 4 — 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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	Square Feet

General Comments

Span 4 — 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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	Square Feet

General Comments

Span 4 — 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	1	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	FRECKLED CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION	2	1	1	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	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

End Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	38	37	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Patched Area	BAY 1, SOUND PATCH AT LOWER SIDE AT GIRDER 2	2	1		Feet

General Comments

Bent 2 — Reinforced Concrete Footing 1

Reinforced Concrete Footing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
220	Reinforced Concrete Pile Cap/Footing	8	8	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

FOOTING NOT VISIBLE

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	30	29	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	1 Feet of longitudinal Cracking (RC and Other): Width .005 open on bottom face under slabs 4 and 5.	2	1		Feet

General Comments

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

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1465
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	56
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	56
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1326
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 Top Flange	165
Span 2	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 2	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1320
Span 3	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	165
Span 3	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	55
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1320
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1458
Span 4	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 4	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 4	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 4	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1320
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Other Bearing	Other Bearings	1
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Other Bearing	Other Bearings	1
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Other Bearing	Other Bearings	1
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Step Down Reinforced Concrete Cap	Reinforced Concrete Pier Cap	30
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	38
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
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
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	38
Bent 3	Cap 1	Step Down Reinforced Concrete Cap	Reinforced Concrete Pier Cap	30
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Bent 1 Cap 1

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

Bent 2

FOOTING NOT VISIBLE

Bent 2 Cap 1

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

Span 2 Expansion Joint

NOT VISIBLE

Span 3 Expansion Joint

NOT VISIBLE

Span 4 Expansion Joint

NOT VISIBLE

National Bridge and NC Inspection Items

Structure Number: 770169 **Inspection Date:** 08/07/2019

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**7**
Item 59: Superstructure	0 - 9 , N	**7**
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	**F**	**5286**	**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**	**45**	**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**		
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	**4**
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: 770169 **Inspection Date:** 08/07/2019

Item	Superstructure - Item 59	**Grade**	7	**Maint Code**		**Qty.**	0
Details	SPANS 2 AND 3 ELASTROMERIC BEARING PADS NOT VISIBLE						

Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	5286
Details	DECK DEBRIS ALONG BOTH CURBS						

Item	Slope Protection	**Grade**	F	**Maint Code**	3352	**Qty.**	45
Details	END BENT 1 SLOPE PROTECTION .010 WIDE TRANSVERSE CRACKING 45 FT.						

Span 4 Beam 1 Near Bearing: FRECKLED CORROSION

Span 4 Beam 1 Near Bearing: FRECKLED CORROSION

Span 4 Deck: 60 Square Feet of transverse Cracking (RC and Other): Width up to 1/32" with effloresence near mid-span ON UNDERSIDE OF DECK

Span 2 Slab 1: OUTBOARD LOWER SIDE OF THE SLAB HAS PAST IMPACT DAMAGE, APPROX 1'L X UP TO 5"W X UP TO 2"D, CENTERED OVER THE RT SOUTHBOUND LANE

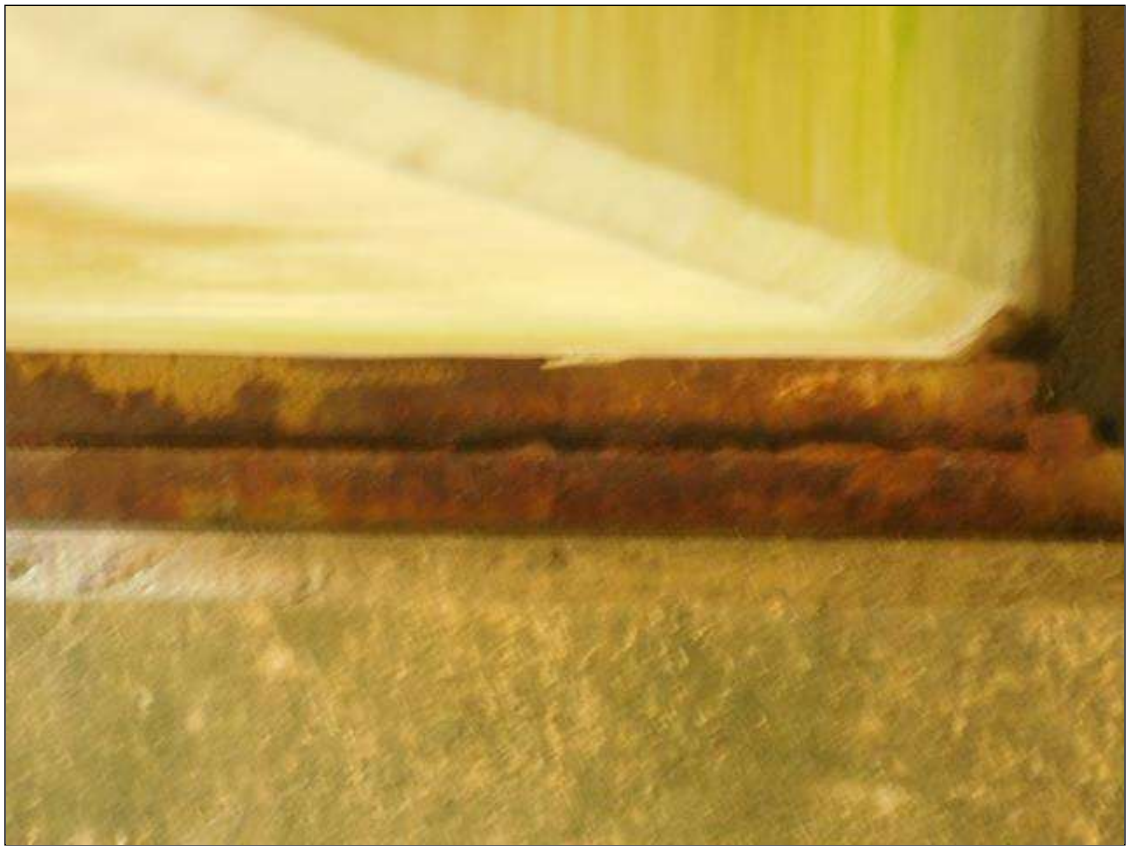
Span 2 Slab 5: LOWER SIDE OF THE SLAB AT THE LEADING CORNER HAS PAST IMPACT DAMAGE, APPROX 2"LINE X UP TO 4"W X UP TO 1"D CENTERED OVER THE RT SOUTHBOUND LANE

Span 2 Slab 9: LOWER SIDE OF THE SLAB AT THE LEADING CORNER HAS PAST IMPACT DAMAGE, APPROX 4"LINE X UP TO 4"W X UP TO 1"D CENTERED OVER THE RT SOUTHBOUND LANE

Bent 2 Cap 1: 1 Feet of longitudinal Cracking (RC and Other): Width .005 open on bottom face under slabs 4 and 5.

END BENT 1 SLOPE PROTECTION .010 WIDE TRANSVERSE CRACKING 45 FT.

End Bent 1 Abutment/Backwall : BAY 1, SOUND PATCH AT LOWER SIDE AT GIRDER 2



Span 1 Beam 1 Far Bearing: FRECKLED CORROSION

Span 1 Beam 1 Far Bearing: FRECKLED CORROSION

DECK DEBRIS ALONG BOTH CURBS

Span 1 Wearing Surface: UP TO .103 FT. WIDE TRANSVERSE CRACK OVER END BENT 1

Span 1 Wearing Surface: .005 WIDE TRANSVERSE CRACK OVER BENT 1

Span 2 Wearing Surface: LONGITUDINAL REFLECTIVE CRACKING UP TO .010 WIDE, RT LANE, LT SHOULDER AND RIGHT SHOULDER

Span 2 Left Bridge Rail: 2 HAIRLINE VERTICAL CRACKS AT POST 2 AND 2 HAIRLINE VERTICAL CRACKS AT POST 8

Span 3 Wearing Surface: .005 WIDE TRANSVERSE CRACK OVER BENT 2

Span 3 Wearing Surface: OVER BENT 3, FULL WIDTH TRANSVERSE CRACKING UP TO .042 WIDE WITH IMPENDING POPOUTS

Span 4 Wearing Surface: .005 TO .020 WIDE TRANSVERSE CRACK OVER END BENT 2

NORTH END OF BENT 3 CAP

END BENT 2

SPAN 4 BEAM 2 FAR BEARING

SOUTH PROFILE

LOOKING NORTH, NORTHBOUND LANE I-95 THRU SPAN 3

SPAN 3 SUPERSTRUCTURE, SPAN 2 SIMILAR

BENT 3

NORTH END OF BENT 2 CAP

NORTH PROFILE

LOOKING SOUTH, SOUTHBOUND LANE I-95 THRU SPAN 2

BENT 1

BENT 2

SPAN 4 SUPERSTRUCTURE, SPAN 1 SIMILAR

GUARDRAIL END TERMINAL

GUARDRAIL POST SPACING AT MID PORTION

LOOKING EAST

GUARDRAIL POST SPACING AT TRANSITION

GUARDRAIL CONNECTION

LOOKING EAST, OFF BRIDGE

LOOKING WEST, OFF BRIDGE

LOOKING SOUTH, I-95

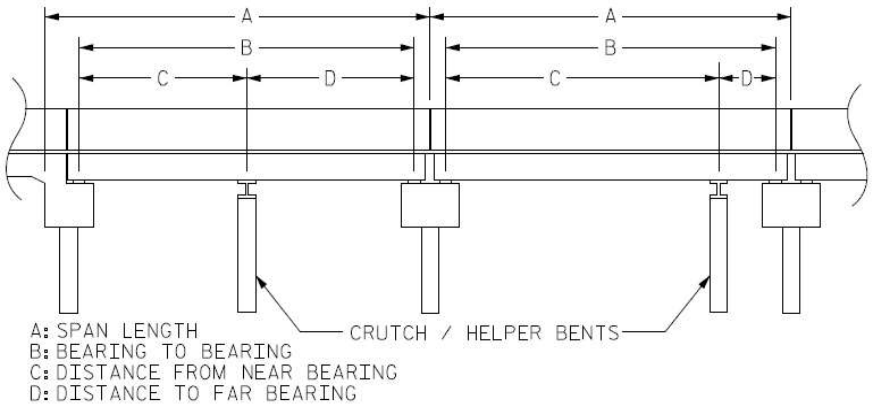
LOOKING NORTH, I-95

LOOKING WEST

Structure Data Worksheet

Span Profile

County: **ROBESON** Structure Number: **770169**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	55.250	52.417			
2	55.000	53.667			
3	55.000	53.667			
4	55.000	53.667			

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 09/17/2019

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **770169**
(8) STRUCTURE NUMBER(FEDERAL) 000000001550169
(5) INVENTORY ROUTE (ON/UNDER) - ON 31017180
(2) STATE HIGHWAY DEPARTMENT DISTRICT 1
(3) COUNTY CODE 155 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - I95
(7) FACILITY CARRIED SR1718
(9) LOCATION 0.3 MI. E. JCT. US301
(11)MILEPOINT 0
(16)LAT 34° 54' 29.45" (17)LONG 78° 57' 22.13"
(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 : Prestressed Concrete
TYPE - Slab CODE 501
(45) NUMBER OF SPANS IN MAIN UNIT 3
(46) NUMBER OF APPROACH SPANS 1
(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

AGE AND SERVICE

(27) YEAR BUILT 1959
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Highway
UNDER - Highway CODE 11
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 4
(29) AVERAGE DAILY TRAFFIC 540
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6%
(19) BYPASS OR DETOUR LENGTH 5 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 54 FT
(49) STRUCTURE LENGTH 220 FT
(50)CURB OR SIDEWALK: LEFT 1.0835 FT RIGHT 1.0835 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 24 FT
(52) DECK WIDTH OUT TO OUT 28.33 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 24 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 7° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Highway 16.4 FT
(55) MIN LAT UNDERCLEAR RT REF Highway 9.625 FT
(56) MIN LAT UNDERCLEAR LT REF - 16.25 FT

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

SUFFICIENCY RATING = 78.63
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

CONDITION — CODE

(58) DECK 7
(59) SUPERSTRUCTURE 7
(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 75
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-17 31
(70) BRIDGE POSTING - No Posting Required 5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED A
DESCRIPTION - Open, No Restriction

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 7
(68) DECK GEOMETRY 4
(69) UNDERCLEARANCES,VERTI & HORIZ 3
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 0010
(113)SCOUR CRITICAL BRIDGES N

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 1080 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 08/07/2019
(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

Structure No: 770169 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					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I95S	11000950	16.4	38.30	1	10095		1	2	19500	2013	47.17	H	16.1	9.83	16.33	9	1	1	1
3	I95N	11000950	16.6	38.30	1	10095		1	2	19500	2013	46.88	H	16.4	9.63	16.25	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 : 770169
LENGTH : 220 FEET

ROUTE CARRIED : SR1718
FEATURE INTERSECTED : I95

LOCATED : 0.3 MI. E. JCT. US301
BRIDGE NAME :
CITY :

FUNC. CLASS : 09
SYST.ON : NFA
SYST.UNDER : NFA
ADT & YR : 540 2013
RAIL TYPE : LT 141 RT 141

BUILT : 1959
BY : SHC
PROJ : 8.13962
FED.AID PROJ :
DESIGN LOAD : H 15

REHAB :
BY : DOH
PROJ : 41927.3.1
ALIGNMENT : TAN
SKEW : 97
LANES : ON 2 UNDER 4

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

SUPERSTRUCTURE : RC FLOOR/PPC GDRS.& PPC CORED SLABS

SUBSTRUCTURE : EBTS:RC CAPS/PRESTR.CONC.PILES;INT.BTS:RCP&BEAM

SPANS : 1@55'3", 2@55', 1@55'3"

BEAMS OR GIRDERS : SPN.ACD 4LNS PPC GDRS.SPN.B 9LNS.PPC CORED SLAB SECTIONS

FLOOR : RC&PPCS/1.75" AW
ENCROACHMENT :
DECK (OUT TO OUT) : 28.33 FT

CLEAR ROADWAY : 24 FT
BETWEEN RAILS : 26.167 FT
SIDEWALK OR CURB : LT 1.0835 FT RT 1.0835 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-17
OPE.RTG. : HS-42
CONTR.MEMBER : PSG A&D
POSTED : SV TTST DATE

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

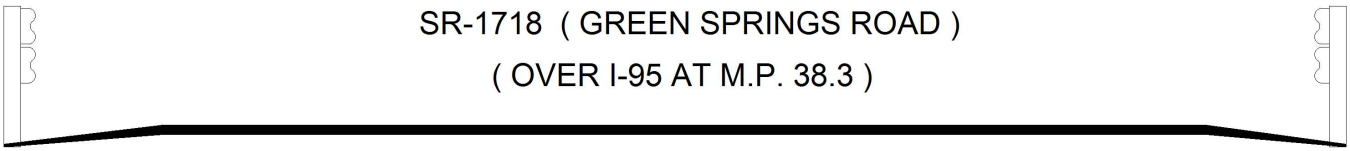
UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I95S	16.40	16.10	47.1660	16.3330	9.8330
3	I95N	16.60	16.40	46.8750	16.25	9.6250

Note: All measurements are in feet.

REMARKS :

Bridge Inspection Field Sketch



MEASUREMENTS TAKEN APPROX 10' BACK FROM THE STRUCTURE

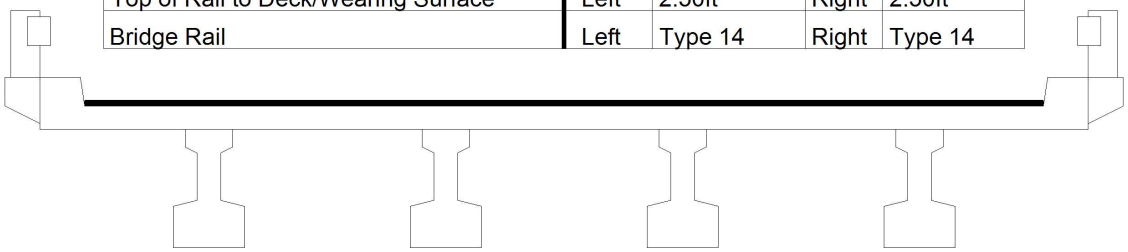
Roadway	18.5ft Wide	2 Paved Lanes	Looking East
Left Shoulder	2.83ft Wide	2.83ft Paved	
Right Shoulder	2.5ft Wide	2.5ft Paved	
Left Guardrail	2.83ft from road		
Right Guardrail	2.5ft from road		

VERIFIED BY KEITH PROCTOR ON 8-14-2017
MEASUREMENTS VERIFIED BY SFS 8/7/19

Title	**Description**		
APPROACH	WEST APPROACH		
Bridge No: 770169	**Drawn By:** RLK	**Date:** 11/17/2009	**File Name:** S0286000047

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.33ft	Between Rails			26.167ft
Clear Roadway	24ft	Wearing Surface			0.146ft
Median Width		Median Height			
Curb Height		Left	0.75ft	Right	0.75ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	0.917ft	Right	0.917ft
Top of Rail to Deck/Wearing Surface		Left	2.50ft	Right	2.50ft
Bridge Rail		Left	Type 14	Right	Type 14



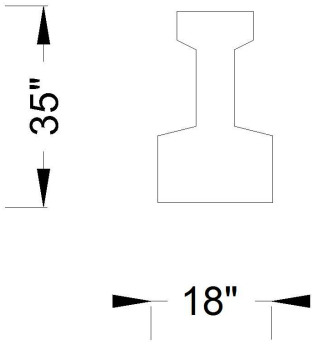
Measurements for Span #	1	SPAN 4 SIMILAR	
Deck Thickness	.58	Left Overhang	3.67
Top of Rail to Bottom of Beam	6.167	Right Overhang	3.67

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

VERIFIED BY KEITH PROCTOR ON 8-14-2017

MEASUREMENTS VERIFIED BY SFS 8/7/19

SIMILAR PPC GIRDER



Title

SUPERSTRUCTURE-1

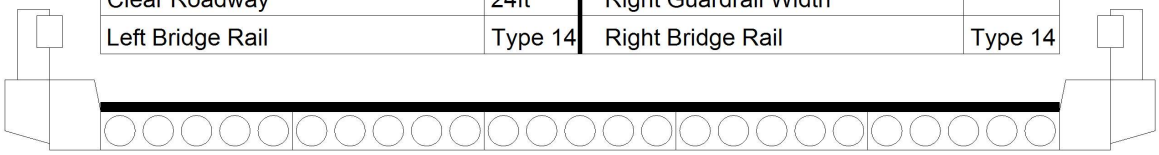
Description

TYPICAL SECTION SPANS 1 & 4

Bridge No: 770169 **Drawn By:** RLK **Date:** 11/17/2009 **File Name:** S0286000048

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.33ft	Wearing Surface	.146 FT.
Between Rails	26.167ft	Median Width	
Curb Height	.75ft	Median Height	
Top Rail to Deck/Wearing Surface	2.50ft	Left Guardrail Width	
Clear Roadway	24ft	Right Guardrail Width	
Left Bridge Rail	Type 14	Right Bridge Rail	Type 14



Measurements for Span #	2	SPAN 3 SIMILAR	
Deck Thickness		Left Overhang	0.67
Top of Rail to Bottom of Beam	4.67	Right Overhang	0.67

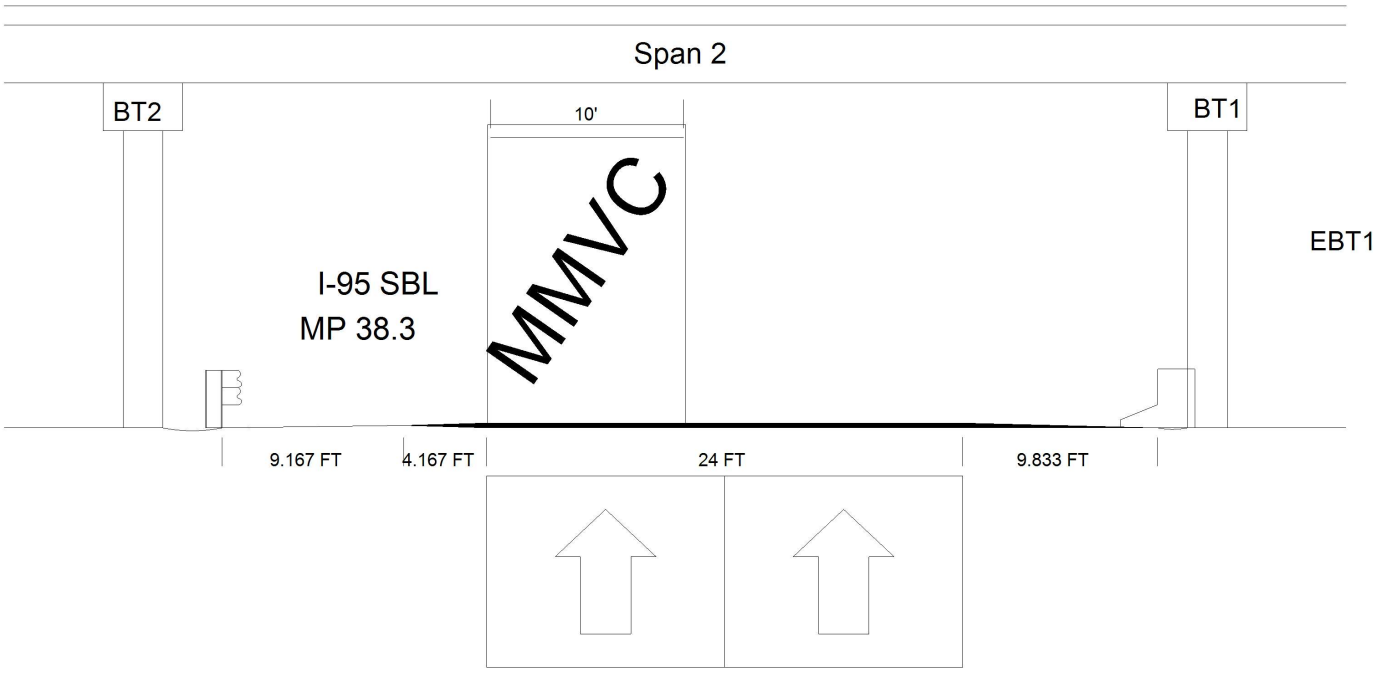
No of Slabs	Slab Height	Slab Width	Comments
9	1.75ft*	3.00ft	

REVISED BY KEITH PROCTOR ON 8-14-2017 (* DENOTES CHANGE)
MEASUREMENTS VERIFIED BY SFS 8/7/19

Title	Description
SUPERSTRUCTURE-2	SIMILAR SECTION FOR SPANS 2 & 3

Bridge No:	Drawn By:	Date:	File Name:
770169	RLK	11/17/2009	S0286000050

Bridge Inspection Field Sketch

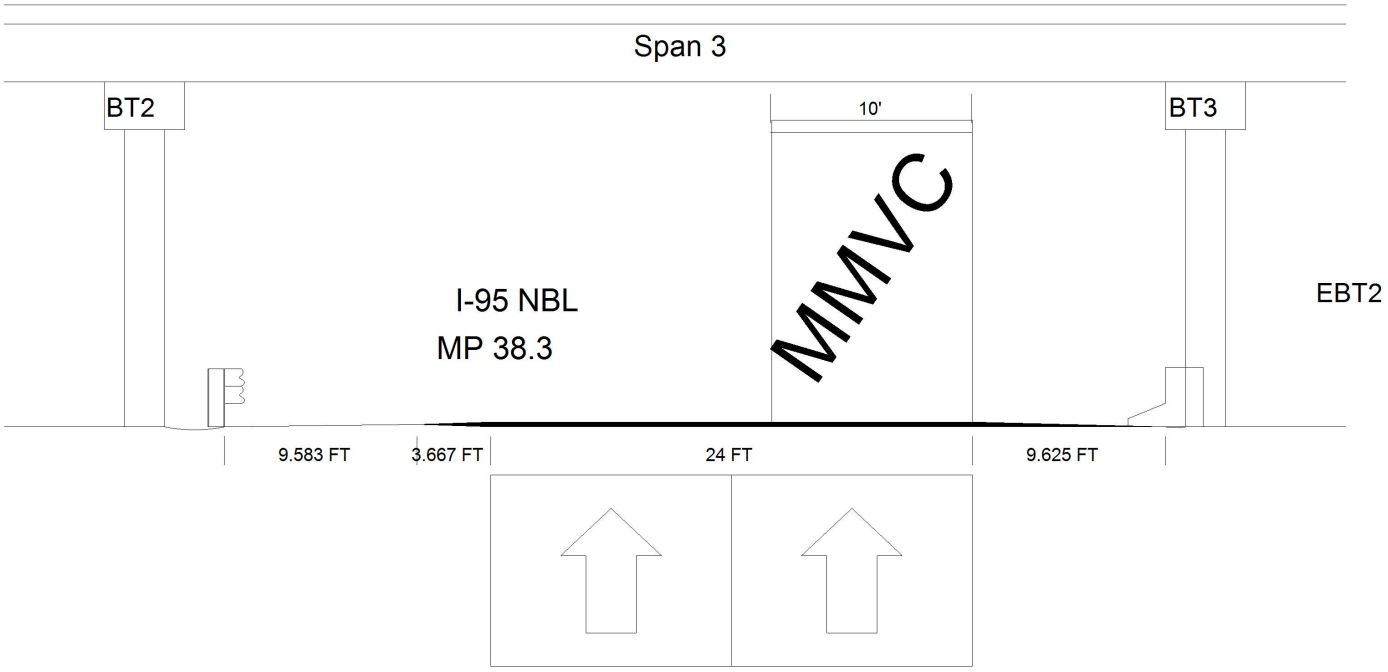


Roadway 1		Direction of Traffic	South
Distance to Left Rail	13.333FT	Distance to Right Rail	9.833FT
Distance to Left Toe of Slope		Distance to Left Bent	16.333FT
Distance to Right Toe of Slope		Distance to Right Bent	11.333FT
MMVC	16.4 Ft at Beam 1, 10 FT from LT EDGE OF PAVEMENT		
MVC	16.1 Ft at Beam 1, 0 FT from RT EDGE OF PAVEMENT		

VERIFIED BY KEITH PROCTOR ON 8-14-2017
MEASUREMENTS VERIFIED BY RLK 8/7/19

Title	**Description**		
SPAN 2 VERTICAL CLEARANCE	I-95 SBL CLEARANCE		
Bridge No: 770169	**Drawn By:** RLK	**Date:** 10/06/2011	**File Name:** S0286000071

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	13.25FT	Distance to Right Rail	9.625FT
Distance to Left Toe of Slope		Distance to Left Bent	16.25FT
Distance to Right Toe of Slope		Distance to Right Bent	10.625FT
MMVC	16.6 Ft at Beam 1, 10 FT from RT EDGE OF PAVEMENT		
MVC	16.4 Ft at Beam 1, 0 FT from AT LT EDGE OF PAVEMENT		

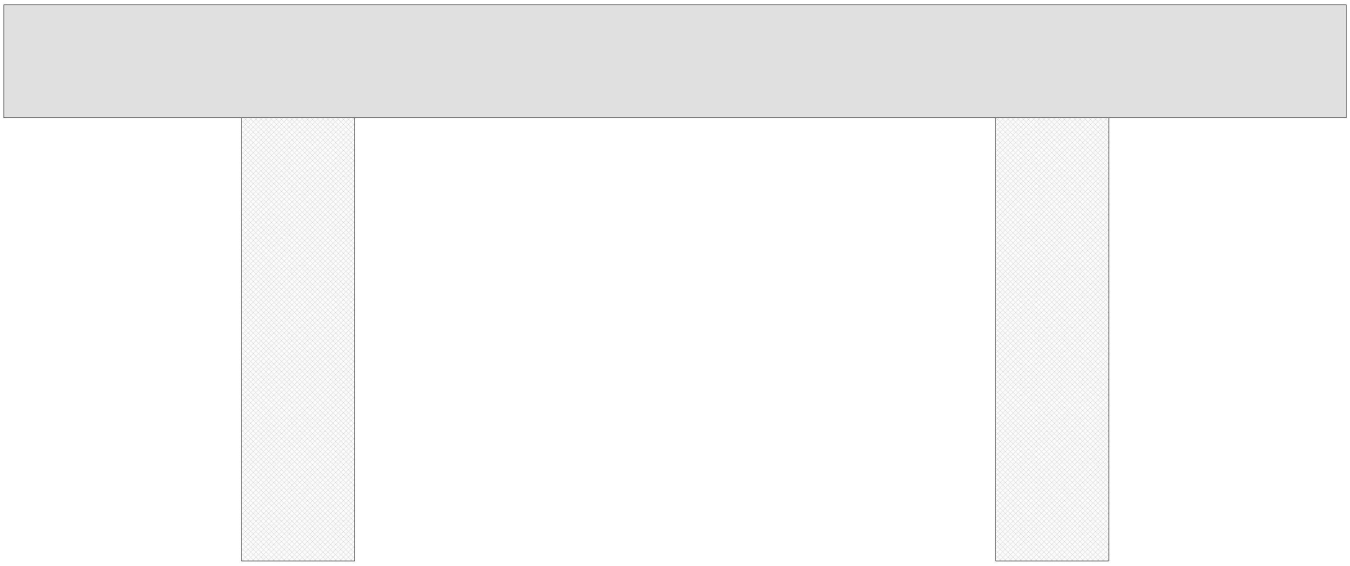
VERIFIED BY KEITH PROCTOR ON 8-14-2017

MEASUREMENTS VERIFIED BY RLK 8/7/19

Title	**Description**
SPAN 3 VERTICAL CLEARANCE	CLEARANCE FOR I-95 NBL

Bridge No: 770169	**Drawn By:** RLK	**Date:** 10/06/2011	**File Name:** S0286000072

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.
29.667 ft.	3.000 ft.	2.500 ft.*	6.500 ft.	6.500 ft.	4.500 ft.	4.500 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	16.67 ft.	2.5 ft.	3 ft.		Vertical	No	No	No	No
2	Concrete		2.5 ft.	3 ft.		Vertical	No	No	No	No

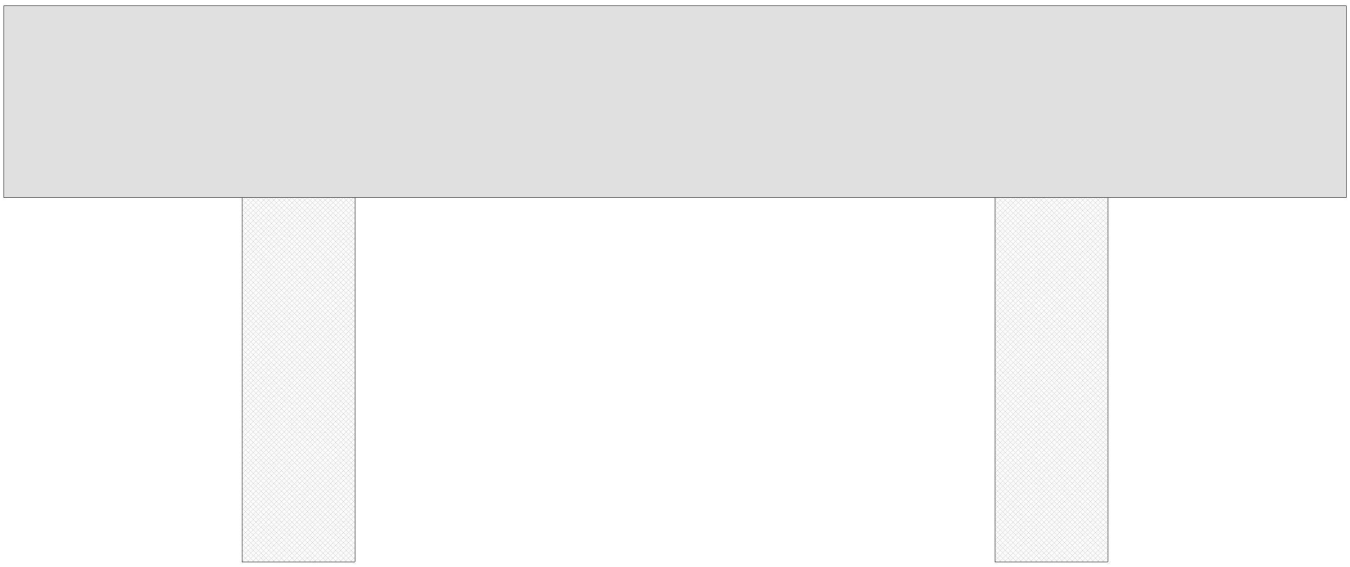
REVISED BY KEITH PROCTOR ON 8-14-2017 (* DENOTES CHANGE)
MEASUREMENTS VERIFIED BY SFS 8/7/19

Bent/Abutment #: 1 Similar Bents: 3

Title	**Description**
SUBSTRUCTURE-1	BENTS 1&3

Bridge No: 770169	**Drawn By:** RLK	**Date:** 11/17/2009	**File Name:** S0098000947

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.
29.709 ft.	3.000 ft.	4.250 ft.	6.520 ft.	6.520 ft.	2.792 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	Concrete	16.667 ft.	2.5 ft.*	3 ft.*		Vertical	No	No	No	No
2	Concrete		2.5 ft.*	3 ft.*		Vertical	No	No	No	No

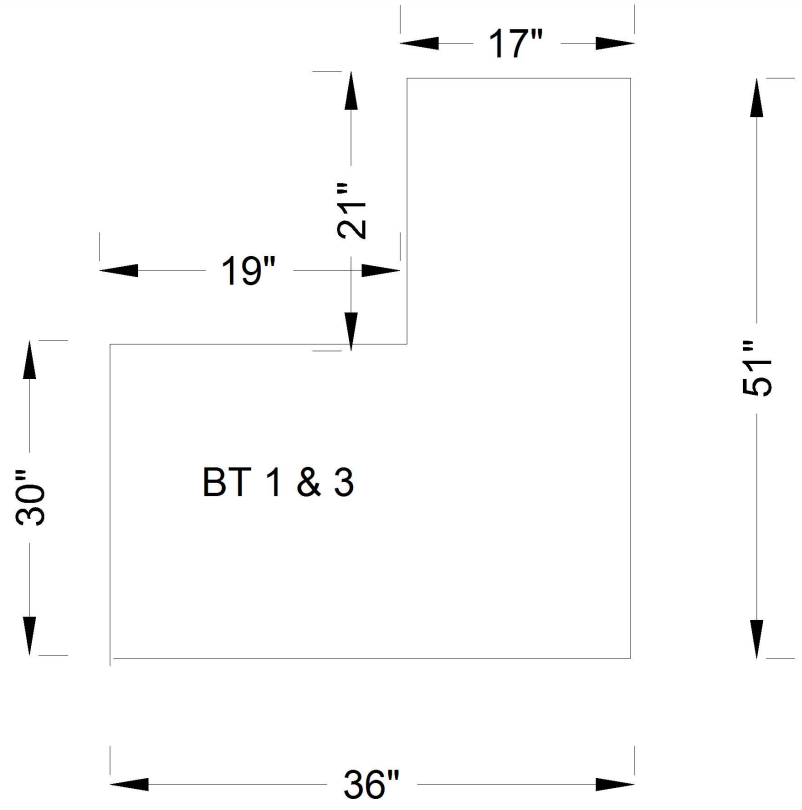
REVISED BY KEITH PROCTOR ON 8-14-2017 (* DENOTES CHANGE)
MEASUREMENTS VERIFIED BY SFS 8/7/19

Bent/Abutment #: 2 Similar Bents:

Title	**Description**
SUBSTRUCTURE-2	BENT 2

Bridge No: 770169	**Drawn By:** RLK	**Date:** 11/17/2009	**File Name:** S0098000948

Bridge Inspection Field Sketch

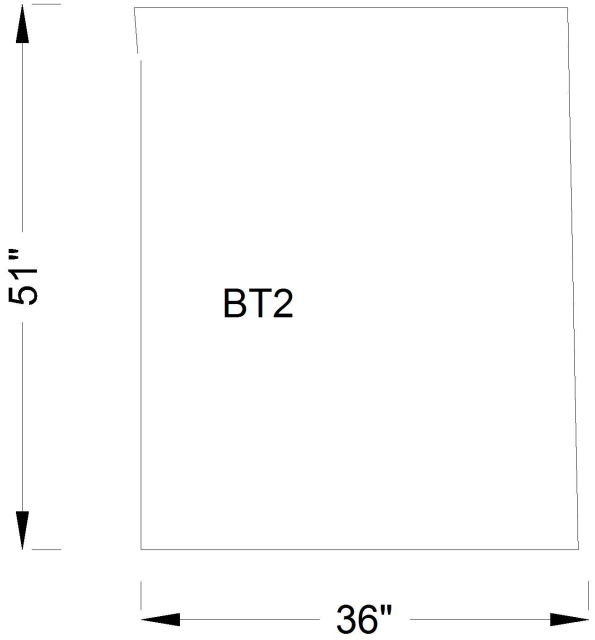


MEASUREMENTS VERIFIED BY RLK 10/6/11

MEASUREMENTS VERIFIED BY RLK 8/27/13

VERIFIED BY KEITH PROCTOR ON 8-14-2017

MEASUREMENTS VERIFIED BY SFS 8/7/19



Title	Description
SUBSTRUCTURE-3	BENT CAPS

Bridge No:	Drawn By:	Date:	File Name:
770169	RLK	11/17/2009	S0098000949