



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE: DECK GIRDERS, BENT 2
CAP. CHANGE TO STRUCTURE DATA.**

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: WAKE STRUCTURE NUMBER: 910091 FREQUENCY: 24 MONTHS

FACILITY CARRIED: US70 WBL MILE POST:

LOCATION: 0.2 MI. W. JCT. US1

FEATURE INTERSECTED: CRABTREE CREEK

LATITUDE: 35° 50' 17.1" LONGITUDE: 78° 40' 25.04"

SUPERSTRUCTURE: RC DECK GIRDERS WIDENED WITH I-BEAMS

SUBSTRUCTURE: EBTS:RC CAP ON TIM., PPC & STL. PILES, INT.BTS:RCP&B, BT#1&2:SPR.FTGS, BT#3:PILE & SPR.FTC

SPANS: 1@50.5';1@53.75';1@52.5';1@52.3'

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

PRESENT CONDITION: Fair INSPECTION DATE: 09/21/2017

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



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

DIRECTION OF
INSPECTION W-E

DIRECTION
MATCHES PLANS

LOOKING EAST

INSPECTED BY MORRIS ISRAELNAIM	SIGNATURE <i>Morris Israelnaim</i>	ASSISTED BY AKO/WOK
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**BRIDGE INSPECTION RECORD AND SUMMARY
FOR SHORED STRUCTURES OR STRUCTURES
WITH TEMPORARY REPAIRS MADE TO KEEP
A BRIDGE OPEN**

BRIDGE: **910091**County **Wake**DATE: **7/10/2014**

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT
THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE
TO KEEP THE BRIDGE OPEN :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	5	TSE <i>7/10/14</i>
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

Steels Saddles have been placed under Beams 8, 9 & 10 @ Bt. 1 Span 1 side.

Shored

Structure Element Scoring

Structure Number: 910091

Inspection Date 9/21/2017

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	16827	16660	167	0	0
107	0	Steel Open Girder/Beam	Beam	1470	1443	10	17	0
515	107	Steel Protective Coating	Beam	11373	11194	128	30	21
110	0	Reinforced Concrete Open Girder/Beam	Beam	1470	1441	16	13	0
205	0	Reinforced Concrete Column	Piles and Columns	27	22	2	3	0
215	0	Reinforced Concrete Abutment	Abutments	188	185	1	2	0
234	0	Reinforced Concrete Pier Cap	Caps	464	445	13	6	0
301	0	Pourable Joint Seal	Expansion Joints	405	405	0	0	0
310	0	Elastomeric Bearing	Bearing Device	36	34	2	0	0
515	310	Steel Protective Coating	Bearing Device	64	60	0	4	0
311	0	Movable Bearing	Bearing Device	10	8	1	1	0
515	311	Steel Protective Coating	Bearing Device	20	16	2	2	0
312	0	Enclosed/Concealed Bearings	Bearing Device	42	42	0	0	0
313	0	Fixed Bearing	Bearing Device	10	9	0	1	0
515	313	Steel Protective Coating	Bearing Device	16	12	4	0	0
330	0	Metal Bridge Railing	Bridge Rail	211	211	0	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	211	210	1	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 910091

Inspection Date: 09/21/2017

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	1 Square Feet
3314	Steel Open Girder/Beam	Corrosion	17 Feet
3306	Reinforced Concrete Open Girder/Beam	Cracking (RC and Other)	3 Feet
3306	Reinforced Concrete Open Girder/Beam	Delamination/Spall	13 Feet
3306	Reinforced Concrete Open Girder/Beam	Patched Area	3 Feet
3348	Reinforced Concrete Column	Delamination/Spall	17 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	3 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	8 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	2 Feet
3334	Elastomeric Bearing	Corrosion	2 Each
3334	Movable Bearing	Connection	1 Each
3334	Fixed Bearing	Connection	1 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	1 Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	125 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	66 Square Feet

Element Structure Maintenance Quantities

Structure Number: 910091

Inspection Date 09/21/2017

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	3	188	0	2	1	185
Beam	3306	Maintenance Concrete Superstructure Components	19	1470	0	13	16	1441
Beam	3314	Maintenance Steel Superstructure Components	17	1470	0	17	10	1443
Beam	3342	Clean and Paint Steel	179	11373	21	30	128	11194
Bearing Device	3334	Bridge Bearing	4	98	0	2	3	93
Bearing Device	3342	Clean and Paint Steel	12	100	0	6	6	88
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	1	211	0	0	1	210
Bridge Rail	3322	Maintenance of Steel Bridge Rail	0	211	0	0	0	211
Caps	3348	Maintenance of Concrete Substructure	10	464	0	6	13	445
Deck	3326	Maintenance of Concrete Deck	1	16827	0	0	167	16660
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	405	0	0	0	405
Piles and Columns	3348	Maintenance of Concrete Substructure	17	27	0	3	2	22

Element Condition and Maintenance Data

Structure Number: 910091

Inspection Date: 09/21/2017

Span 1			Deck				
Reinforced Concrete Deck							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck		4,066	4,062	4	0	0
Square Feet							
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty
12	Efflorescence/Rust Staining	HAIRLINE CRACK WITH EFFLORESCENCE IN UNDERSIDE DECK BAY 4 NEAR END BENT 1			2	4	
Square Feet							
General Comments							

Span 1		Beam 1					
Plate Girder							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam		51	50	0	1	0 Feet
515	Steel Protective Coating		377	376	0	0	1 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	7" OF CORROSION WITH SECTION LOSS, 1/2" THICKNESS REMAINING, INSIDE FACE TOP OF BOTTOM FLANGE AT 3 FT FROM BENT 1	3	1	1	Feet	
515	Effectiveness (Steel Protective Coatings)	FAILED PROTECTIVE COATING AT BENT 1.	4	1	1	Square Feet	
General Comments							

Span 1		Beam 4				
Reinforced Concrete Girder						
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	51	51	0	0	0 Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
General Comments						
BEAM 4 THROUGH 10 NO BEARING (NEOPRENE PAD ONLY).						

Span 1		Beam 6				
Reinforced Concrete Girder						
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	51	51	0	0	0 Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
General Comments						
2 FT X 1 FT X 1.5" SPALL WITH EXPOSED REBAR, IN END DIAPHRAGM, AT BENT 1 SPAN 1, ADJACENT TO BEAM 6.						

Beam 10

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	51	48	3	0	0	Feet

General Comments

Beam 12

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	51	51	0	0	0	Feet
515	Steel Protective Coating	415	390	25	0	0	Square Feet

General Comments

Far Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

General Comments

Far Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

General Comments

Span 2 Deck**Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	4,327	4,303	24	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Efflorescence/Rust Staining	(3) TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN UNDERSIDE OF BAY 11.	2	24		Square Feet

General Comments

Span 2 Beam 3**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	54	47	0	7	0	Feet
515	Steel Protective Coating	400	380	0	0	20	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	RUST FLAKING WITH LOSS OF SECTION ALONG BOTTOM FLANGE EXTENDING 4 IN INTO WEB. FULL WIDTH X 9/16" REMAINING SECTION IN BOTTOM FLANGE, FULL HEIGHT X 7/16" REMAINING SECTION IN WEB. STARTING AT BENT 2 EXTENDING 7 FT INTO SPAN.	3	7	7	Feet
515	Effectiveness (Steel Protective Coatings)	FAILED PROTECTIVE COATING, AT BENT 2.	4	20	20	Square Feet

General Comments

Span 2 Beam 4**Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	52	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Delamination/Spall	24 IN X 16 IN X 3 IN DEEP SPALL WITH EXPOSED REBAR IN LEFT FACE AT BENT 2 (PM).	3	2	2	Feet

General Comments

Span 2 Beam 6**Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	52	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Patched Area	24 IN X 18 IN SOUND PATCH IN UNDERSIDE OF BEAM, 20 FT FROM BENT 1.	2	2		Feet

General Comments

Span 2 Beam 7

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	51	0	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Delamination/Spall	6" X 24" HIGH X 1" SPALL WITH EXPOSED STIRRUP, NORTH FACE, AT BENT 1	3	1	1	Feet
110	Patched Area	18 IN X 30 IN DELAMINATED PATCH IN LEFT FACE AT BENT 2.	3	2	2	Feet

General Comments

Span 2 Beam 8

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	51	2	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Delamination/Spall	12 IN X 30 IN DELAMINATION AND SPALL IN LEFT FACE AT BENT 2.	3	1	1	Feet
110	Patched Area	24 IN X 18 IN SOUND PATCH IN UNDERSIDE OF BEAM, 20 FT FROM BENT 1.	2	2		Feet

General Comments

Span 2 Beam 9

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	53	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Delamination/Spall	6IN X 18IN X 2IN DEEP SPALL, NORTH FACE, AT BENT 2.	3	1	1	Feet

General Comments

Span 2 Beam 10

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	51	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Patched Area	3' X 18" PATCH, UNDERSIDE GIRDER, 20' FROM BENT 1.	2	3		Feet

General Comments

Span 2 Beam 12

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	54	53	0	1	0 Feet
515	Steel Protective Coating	446	445	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	9 IN X 6 IN AREA OF CORROSION WITH LOSS OF SECTION IN WEB AT BASE. 7/16 IN REMAINING SECTION AT BENT 2.	3	1	1 Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS IN WEB AT BENT 2.	3	1	1 Square Feet
General Comments					

Span 2 Far Bearing

Elastomeric Bearing with Metal Plates

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
310	Elastomeric Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	2	0	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
310	Corrosion	SURFACE CORROSION	2	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	3	2	2 Square Feet
General Comments					

Span 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	1	0	0	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIAL EFFECTIVENESS OF PROTECTIVE COATING.	2	2	2 Square Feet
General Comments					

Span 2 Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	2	0	2	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Connection	ANCHOR NUT MISSING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIAL EFFECTIVENESS OF PROTECTIVE COATING.	2	2	2 Square Feet
General Comments					

Span 3			Beam 5				
Reinforced Concrete Girder							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam		53	52	1	0	0 Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty	
110	Delamination/Spall	4 IN X 30 IN X 1 IN DEEP SPALL WITH EXPOSED REBAR IN LEFT FACE AT BENT 2.		2	1	1	Feet
General Comments							

Span 3 **Beam 6****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	53	52	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	9 IN X 18 IN DELAMINATION IN RIGHT FACE AT BENT 3.	2	1	1 Feet
General Comments					

Span 3 **Beam 8****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	53	52	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	9 IN X 30 IN X 2 IN DEEP SPALL IN LEFT FACE AT BENT 3.	3	1	1 Feet
General Comments					

Span 3 **Beam 9****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	53	52	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	9 IN X 30 IN DELAMINATION WITH CRACK UP TO 1/16" WIDE IN LEFT FACE AT BENT 3.	2	1	1	Feet
General Comments						

Span 3 **Beam 11****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	53	53	0	0	0 Feet
515	Steel Protective Coating	436	426	10	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	AREAS OF PEELING PAINT AT RANDOM ALONG BOTTOM OF TOP FLANGE.	2	10	10 Square Feet
General Comments					

Span 3 **Beam 12****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	52	0	1	0	Feet
515	Steel Protective Coating	436	405	30	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	9 IN X 6 IN AREA OF CORROSION WITH LOSS OF SECTION IN WEB AT BASE. 7/16 IN REMAINING SECTION AT BENT 2.	3	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS IN WEB AT BENT 2.	3	1	1	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	AREAS OF PEELING PAINT AT RANDOM ALONG BOTTOM OF TOP AND BOTTOM FLANGES.	2	30	30	Square Feet

General Comments

Span 3 **Beam 14****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	46	7	0	0	Feet
515	Steel Protective Coating	392	378	0	14	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	SURFACE CORROSION ALONG BOTTOM FLANGE AND BASE OF WEB AT BENT 3.	2	7		Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS ALONG BOTTOM FLANGE AND BASE OF WEB AT BENT 3.	3	14	14	Square Feet

General Comments

Span 3 **Near Bearing****Elastomeric Bearing with Metal Plates**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
310	Elastomeric Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
310	Corrosion	SURFACE CORROSION	2	1	1	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	3	2	2	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	4,207	4,108	99	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	12 IN X 6 IN X 1 IN DEEP SPALL WITH EXPOSED REBAR IN UNDERSIDE OF BAY 6, 20 FT FROM BENT 3.	2	1	1	Square Feet

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12	Efflorescence/Rust Staining	(8) TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN UNDERSIDE OF BAY 11.	2	48	Square Feet
12	Efflorescence/Rust Staining	HAIRLINE MAP CRACKING WITH EFFLORESCENCE IN UNDERSIDE OF BAY 3 NEAR MIDSPAN	2	50	Square Feet
General Comments					

Span 4 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	52	51	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/32" WIDE IN RIGHT FACE AT BENT 3.	2	1	1	Feet
General Comments						

Span 4 Beam 6

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Patched Area	9 IN X 24 IN DELAMINATED PATCH WITH CRACKS UP TO 1/8" WIDE IN RIGHT FACE AT BENT 3.	3	1	1 Feet
General Comments					

Span 4 Beam 7

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	52	51	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	6 IN X 30 IN DELAMINATION WITH CRACKS UP TO 1/8" WIDE IN RIGHT FACE AT BENT 3.	3	1	1	Feet
General Comments						

5" X 20" DELAMINATION WITH VERTICAL CRACK UP TO 0.05", SOUTH FACE, NEAR BEARING.

Span 4 Beam 10

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	1	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	10 IN X 12 IN X 3 IN DEEP SPALL IN RIGHT FACE AT BENT 3 (PM).	3	1	1 Feet
110	Delamination/Spall	9 IN X 30 IN DELAMINATION IN LEFT FACE AT BENT 3.	2	1	1 Feet
General Comments					

Beam 11

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	52	52	0	0	0	Feet
515	Steel Protective Coating	430	405	25	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	AREAS OF PEELING PAINT AT RANDOM ALONG BOTTOM OF TOP FLANGE.	2	25	25	Square Feet
General Comments						

Beam 12

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	52	52	0	0	0	Feet
515	Steel Protective Coating	430	395	35	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	AREAS OF PEELING PAINT AT RANDOM ALONG BOTTOM OF TOP AND BOTTOM FLANGES.	2	35	35	Square Feet
General Comments						

Beam 14

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	52	49	3	0	0	Feet
515	Steel Protective Coating	392	389	3	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	SURFACE CORROSION ALONG BOTTOM FLANGE AT BENT 3.	2	3		Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING IS SUBSTANTIALLY EFFECTIVE ALONG BOTTOM FLANGE AT BENT 3.	2	3	3	Square Feet
General Comments						

Right Bridge Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	52	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Delamination/Spall	8IN X 3IN X 1IN DEEP SPALL, AT END OF RAIL, AT END BENT 2.	2	1	1	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	95	85	10	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	SPALL AND DELAMINATION 2 FT X 6" X 1" DEEP UNDER BAY 1	2	2	2	Feet
234	Patched Area	4' X 14" X 4" TEMPORARY REPAIR, TOP OF CAP, BELOW BEAM 3 BEARING.	2	4		Feet
234	Patched Area	PATCH IN FACE OF CAP UNDER BEAM 13	2	4		Feet

General Comments

Bent 1 Cap 3**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	35	35	0	0	0	Feet

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

RUSTED TEMPORARY REPAIR SUPPORTING GIRDERS 8 - 10.

Bent 1 Pile 8**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	CHIP 12" X 9" X 1/4" DEEP IN EAST FACE AT 5 FT ABOVE GROUND	2	1	1	Each

General Comments

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	93	90	1	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Delamination/Spall	SPALL WITH EXPOSED REBAR 16" X 6" X 1/2" DEEP IN BAY 12	3	2	2	Feet
215	Delamination/Spall	DELAMINATION 1 FT X 8" IN BAY 13	2	1	1	Feet

General Comments

Bent 2 Cap 2**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	8	6	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	15 IN X 6 IN X 3 IN DEEP SPALL BELOW BEAM 4 IN WEST FACE WITH LOSS OF BEARING AREA (PM).	3	2	2	Feet

General Comments

Bent 2 Cap 3**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	35	32	1	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	18 IN X 4 IN X 3 IN DEEP SPALL BELOW BEAM 5 IN WEST FACE WITH LOSS OF BEARING AREA (PM).	3	2	2	Feet
234	Patched Area	12 IN X 18 IN SOUND PATCH IN WEST FACE BELOW BAY 7.	2	1		Feet

General Comments

Bent 2 Pile 1**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	16 IN X 18 IN X 1/2 IN DEEP SPALL WITH EXPOSED SPIRAL REINFORCING IN NORTHEAST FACE.	3	1	2	Each

General Comments

Bent 2 Pile 4**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	8 IN X 20 IN X 1 IN DEEP SPALL IN WEST FACE, 2 FT BELOW CAP.	2	1	2	Each

General Comments

Bent 3 Cap 2**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	8	4	2	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Patched Area	24 IN X 9 IN UNSOUND PATCH IN EAST FACE BELOW BEAM 4.	3	2	2 Feet
234	Delamination/Spall	15 IN X 18 IN X 3 IN DEEP SPALL AND AREA OF DELAMINATION WITH LOSS OF BEARING BELOW BEAM 5 IN EAST FACE (PM).	2	2	2 Feet

General Comments

Bent 3 Pile 5**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Delamination/Spall	2 FT WIDE X 8 FT TALL AREA OF DELAMINATION WITH 12 IN X 24 IN X 1 IN DEEP SPALL IN WEST FACE.	3	1	8 Each
205	Delamination/Spall	3 FT X 3 IN DELAMINATION IN NORTHWEST CORNER, 3 FT FROM GROUND.	2		3 Each

General Comments

Bent 3 Pile 6**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Delamination/Spall	4 IN X 18 IN X 3 IN DEEP SPALL IN SOUTHWEST CORNER, 6 FT FROM GROUND.	3	1	1 Each
205	Patched Area	SOUND PATCH IN WEST FACE.	2		Each

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4066
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	51
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	51
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	51
Span 1	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 6	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 9	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 10	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	51
Span 1	Beam 12	Plate Girder	Steel Open Girder/Beam	51
Span 1	Beam 13	Plate Girder	Steel Open Girder/Beam	51
Span 1	Beam 14	Plate Girder	Steel Open Girder/Beam	51
Span 1	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	51
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	51
Span 1	Expansion Joint at Bent 1	Standard Joint	Pourable Joint Seal	81
Span 1	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4327
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 2	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 2	Beam 6	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 2	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 2	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 2	Beam 9	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 2	Beam 10	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 2	Beam 11	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 12	Plate Girder	Steel Open Girder/Beam	54

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Beam 13	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 14	Plate Girder	Steel Open Girder/Beam	54
Span 2	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	54
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	81
Span 2	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4227
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	53
Span 3	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	53
Span 3	Beam 6	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	53
Span 3	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	53
Span 3	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	53
Span 3	Beam 9	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	53
Span 3	Beam 10	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	53
Span 3	Beam 11	Plate Girder	Steel Open Girder/Beam	53

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Beam 12	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 13	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 14	Plate Girder	Steel Open Girder/Beam	53
Span 3	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	53
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Expansion Joint	Standard Joint	Pourable Joint Seal	81
Span 3	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 3	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4207
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 6	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 9	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 10	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52

Elements Verified

Location	Name	Component	Element Name	Amount
Span 4	Beam 11	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 12	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 13	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 14	Plate Girder	Steel Open Girder/Beam	52
Span 4	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	53
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 4	Expansion Joint	Standard Joint	Pourable Joint Seal	81
Span 4	Expansion Joint	Standard Joint	Pourable Joint Seal	81
Span 4	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Near Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Far Bearing	Enclosed/Concealed Bearing	Enclosed/Concealed Bearings	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing with Metal Plates	Elastomeric Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	23
Bent 1	Cap 2	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	8
Bent 1	Cap 3	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	35
Bent 1	Cap 4	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	14
Bent 1	Cap 5	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	12
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1

Elements Verified

Location	Name	Component	Element Name	Amount
Bent 1	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 8	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 9	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	95
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	93
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	23
Bent 2	Cap 2	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	8
Bent 2	Cap 3	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	35
Bent 2	Cap 4	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	14
Bent 2	Cap 5	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	12
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 8	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 9	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	93
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	95
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	23
Bent 3	Cap 2	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	8
Bent 3	Cap 3	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	35
Bent 3	Cap 4	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	14
Bent 3	Cap 5	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	12
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 8	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 9	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Bent 1	Cap 3
RUSTED TEMPORARY REPAIR SUPPORTING GIRDERS 8 - 10.	
Span 1	Beam 4
BEAM 4 THROUGH 10 NO BEARING (NEOPRENE PAD ONLY).	
Span 1	Beam 6
2 FT X 1 FT X 1.5" SPALL WITH EXPOSED REBAR, IN END DIAPHRAGM, AT BENT 1 SPAN 1, ADJACENT TO BEAM 6.	

National Bridge and NC Inspection Items

Structure Number: 910091

Inspection Date: 09/21/2017

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	5
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	G		
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		G		
Drift	G, F, P, or C	F	16	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	5		
Superstructure Paint Code				

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

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	15
Traffic Control Time	Hours	0
Snooper Time	Hours	0
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: 910091

Inspection Date: 09/21/2017

Item	Deck - Item 58	Grade	6	Maint Code	Qty.	0
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Details ITEM GRADE INCREASED DUE TO DECK REHAB.

Item	Drift	Grade	F	Maint Code	3366	Qty.	16
------	-------	-------	---	------------	------	------	----

Details DRIFT ACCUMULATION ON END BENT 2 CAP.
DRIFT ACCUMULATION IN BAYS 7 THRU 9 AT BENT 3.

Item	General Comments and Misc Items	Grade		Maint Code	Qty.	0
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Details SIDEWALK CRACK IN SPAN 3.



GENERAL COMMENTS: SIDEWALK CRACK IN SPAN 3.



Span 4 Right Bridge Rail: 8IN X 3IN X 1IN DEEP SPALL, AT END OF RAIL, AT END BENT 2.



Drift: DRIFT ACCUMULATION ON END BENT 2 CAP.



Span 4 Deck: HAIRLINE MAP CRACKING WITH EFFLORESCENCE IN UNDERSIDE OF BAY 3 NEAR MIDSPAN



Span 4 Deck: 12 IN X 6 IN X 1 IN DEEP SPALL WITH EXPOSED REBAR IN UNDERSIDE OF BAY 6, 20 FT FROM BENT 3.



Span 4 Deck: (8) TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN UNDERSIDE OF BAY 11.



Span 4 Beam 4: DIAGONAL CRACK UP TO 1/32" WIDE IN RIGHT FACE AT BENT 3.



Span 4 Beam 6: 9 IN X 24 IN DELAMINATED PATCH WITH CRACKS UP TO 1/8" WIDE IN RIGHT FACE AT BENT 3.



Span 3 Beam 6: 9 IN X 18 IN DELAMINATION IN RIGHT FACE AT BENT 3.



Span 3 Beam 4: 18 IN X 18 IN X 2 IN DEEP SPALL WITH EXPOSED REBAR IN RIGHT FACE AT BENT 3 (PM)



Span 4 Beam 7: 6 IN X 30 IN DELAMINATION WITH CRACKS UP TO 1/8" WIDE IN RIGHT FACE AT BENT 3.



Span 3 Beam 8: 9 IN X 30 IN X 2 IN DEEP SPALL IN LEFT FACE AT BENT 3.



Span 3 Beam 9: 9 IN X 30 IN DELAMINATION WITH CRACK UP TO 1/16" WIDE IN LEFT FACE AT BENT 3.



Span 4 Beam 10: 9 IN X 30 IN DELAMINATION IN LEFT FACE AT BENT 3.



Span 4 Beam 10: 10 IN X 12 IN X 3 IN DEEP SPALL IN RIGHT FACE AT BENT 3 (PM).



Span 4 Beam 11: AREAS OF PEELING PAINT AT RANDOM ALONG BOTTOM OF TOP FLANGE.



Span 4 Beam 12: AREAS OF PEELING PAINT AT RANDOM ALONG BOTTOM OF TOP AND BOTTOM FLANGES.



Span 4 Beam 14: SURFACE CORROSION ALONG BOTTOM FLANGE AT BENT 3.



Bent 3 Cap 2: 15 IN X 18 IN X 3 IN DEEP SPALL AND AREA OF DELAMINATION WITH LOSS OF BEARING BELOW BEAM 5 IN EAST FACE (PM).



Bent 3 Cap 2: 24 IN X 9 IN UNSOUND PATCH IN EAST FACE BELOW BEAM 4.



Bent 3 Pile 5: 2 FT WIDE X 8 FT TALL AREA OF DELAMINATION WITH 12 IN X 24 IN X 1 IN DEEP SPALL IN WEST FACE.



Bent 3 Pile 6: 4 IN X 18 IN X 3 IN DEEP SPALL IN SOUTHWEST CORNER, 6 FT FROM GROUND.



Drift: DRIFT ACCUMULATION IN BAYS 7 THRU 9 AT BENT 3.



Span 3 Beam 3: RUST FLAKING WITH LOSS OF SECTION ALONG BOTTOM FLANGE EXTENDING 4 IN INTO WEB. FULL WIDTH X $\frac{9}{16}$ " REMAINING SECTION IN BOTTOM FLANGE, FULL HEIGHT X $\frac{7}{16}$ " REMAINING SECTION IN WEB. STARTING AT BENT 2 EXTENDING 7 FT INTO SPAN.



Span 2 Beam 3: RUST FLAKING WITH LOSS OF SECTION ALONG BOTTOM FLANGE EXTENDING 4 IN INTO WEB. FULL WIDTH X 9/16" REMAINING SECTION IN BOTTOM FLANGE, FULL HEIGHT X 7/16" REMAINING SECTION IN WEB. STARTING AT BENT 2 EXTENDING 7 FT INTO SPAN.



Span 3 Beam 4: 6 IN X 3 IN X 1 IN DEEP SPALL AND 9 IN X 6 IN X 1 IN DEEP SPALL IN LEFT FACE AT BENT 2.



Span 3 Beam 5: 4 IN X 30 IN X 1 IN DEEP SPALL WITH EXPOSED REBAR IN LEFT FACE AT BENT 2.



Span 3 Beam 14: SURFACE CORROSION ALONG BOTTOM FLANGE AND BASE OF WEB AT BENT 3.



Span 3 Beam 12: 9 IN X 6 IN AREA OF CORROSION WITH LOSS OF SECTION IN WEB AT BASE. 7/16 IN REMAINING SECTION AT BENT 2.



Span 2 Beam 12: 9 IN X 6 IN AREA OF CORROSION WITH LOSS OF SECTION IN WEB AT BASE. 7/16 IN REMAINING SECTION AT BENT 2.



Span 3 Deck: (5) TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN UNDERSIDE OF BAY 11.



Bent 2 Pile 1: 16 IN X 18 IN X 1/2 IN DEEP SPALL WITH EXPOSED SPIRAL REINFORCING IN NORTHEAST FACE.



Bent 2 Cap 2: 15 IN X 6 IN X 3 IN DEEP SPALL BELOW BEAM 4 IN WEST FACE WITH LOSS OF BEARING AREA (PM).



Bent 2 Cap 3: 18 IN X 4 IN X 3 IN DEEP SPALL BELOW BEAM 5 IN WEST FACE WITH LOSS OF BEARING AREA (PM).



Bent 2 Pile 4: 8 IN X 20 IN X 1 IN DEEP SPALL IN WEST FACE, 2 FT BELOW CAP.



Span 2 Beam 4: 24 IN X 16 IN X 3 IN DEEP SPALL WITH EXPOSED REBAR IN LEFT FACE AT BENT 2 (PM).



Span 2 Beam 7: 18 IN X 30 IN DELAMINATED PATCH IN LEFT FACE AT BENT 2.



Span 2 Beam 8: 12 IN X 30 IN DELAMINATION AND SPALL IN LEFT FACE AT BENT 2.



Span 2 Beam 6: 24 IN X 18 IN SOUND PATCH IN UNDERSIDE OF BEAM, 20 FT FROM BENT 1.



Span 2 Deck: (3) TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN UNDERSIDE OF BAY 11.



Span 1 Beam 1: 7" OF CORROSION WITH SECTION LOSS, 1/2" THICKNESS REMAINING, INSIDE FACE TOP OF BOTTOM FLANGE AT 3 FT FROM BENT 1



Span 2 Beam 7: 6" X 24" HIGH X 3" SPALL WITH EXPOSED REINFORCING, NORTH FACE, AT BENT 1



SPAN 1 BEAM 6 DIAPHRAGM: 2 FT X 1 FT X 1.5" SPALL WITH EXPOSED REBAR IN END DIAPHRAGM AT BENT 1 SPAN 1 ADJACENT TO BEAM 6



Span 1 Beam 10: 3 FT X 4" X 4" PATCH BOTTOM SOUTH CORNER AT 20 FT FROM END BENT 1



Span 1 Beam 12 Far Bearing: ANCHOR NUT MISSING (Span 2 Beam 12 Near Bearing SIMILAR).



Span 1 Deck: HAIRLINE CRACK WITH EFFLORESCENCE IN UNDERSIDE DECK BAY 4 NEAR END BENT 1



End Bent 1 Cap 1: SPALL AND DELAMINATION 2 FT X 6" X 1" DEEP UNDER BAY 1



Span 1 Beam 12: PEELING PAINT AT RANDOM SOUTH SIDE UNDERSIDE OF TOP FLANGE FULL LENGTH AT RANDOM



End Bent 1 Abutment/Backwall : SPALL WITH EXPOSED REBAR 16" X 6" X 1/2" DEEP IN BAY 12



End Bent 1 Cap 1: PATCH IN FACE OF CAP UNDER BEAM 13



End Bent 1 Abutment/Backwall : DELAMINATION 1 FT X 8" IN BAY 13



Bent 1 Pile 8: CHIP 12" X 9" X 1/4" DEEP IN EAST FACE AT 5 FT ABOVE GROUND



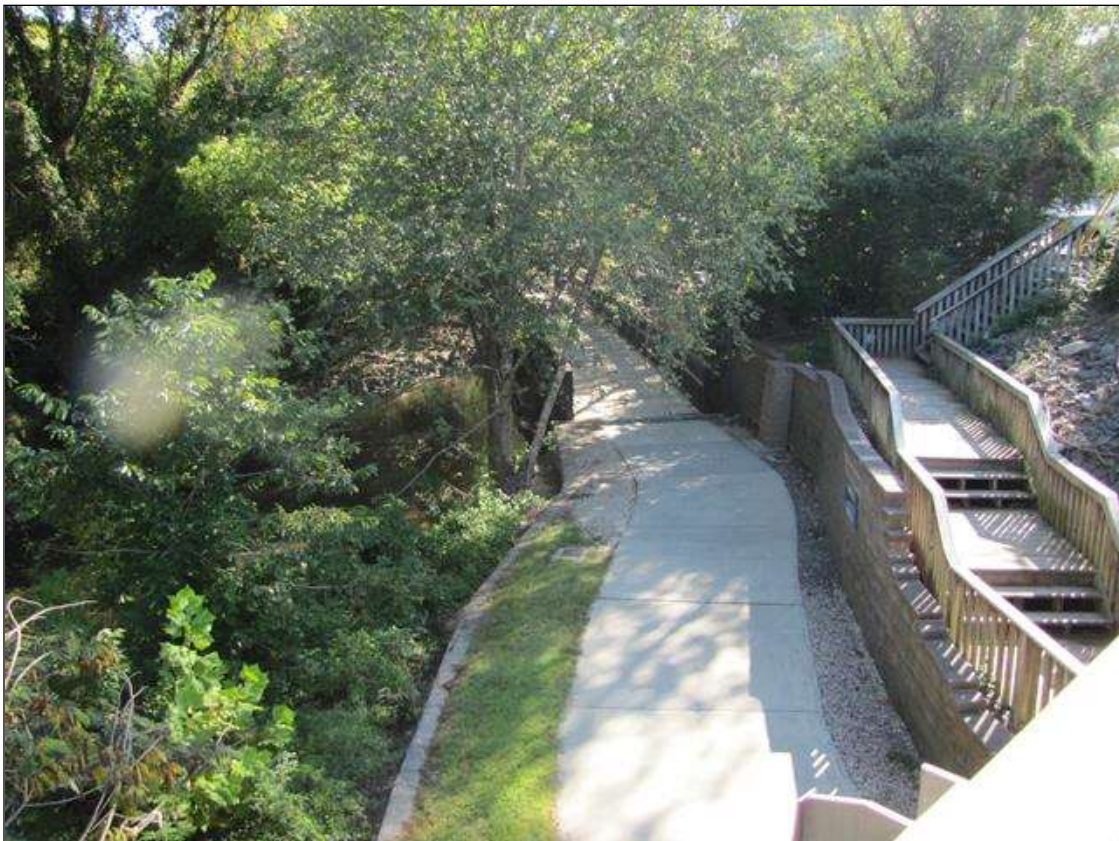
LOOKING WEST



PAVEMENT TO DECK TRANSITION AT END BENT 2



JOINT AT BENT 3



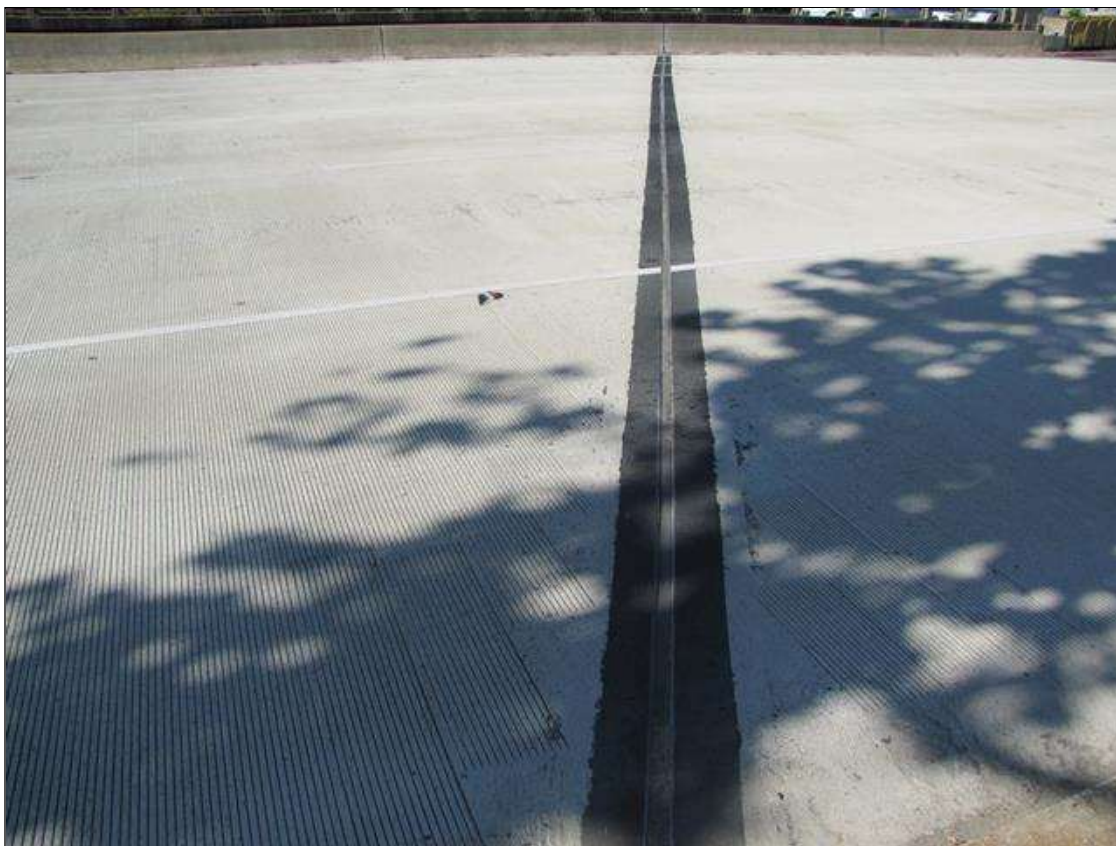
LOOKING NORTH OVER GREENWAY



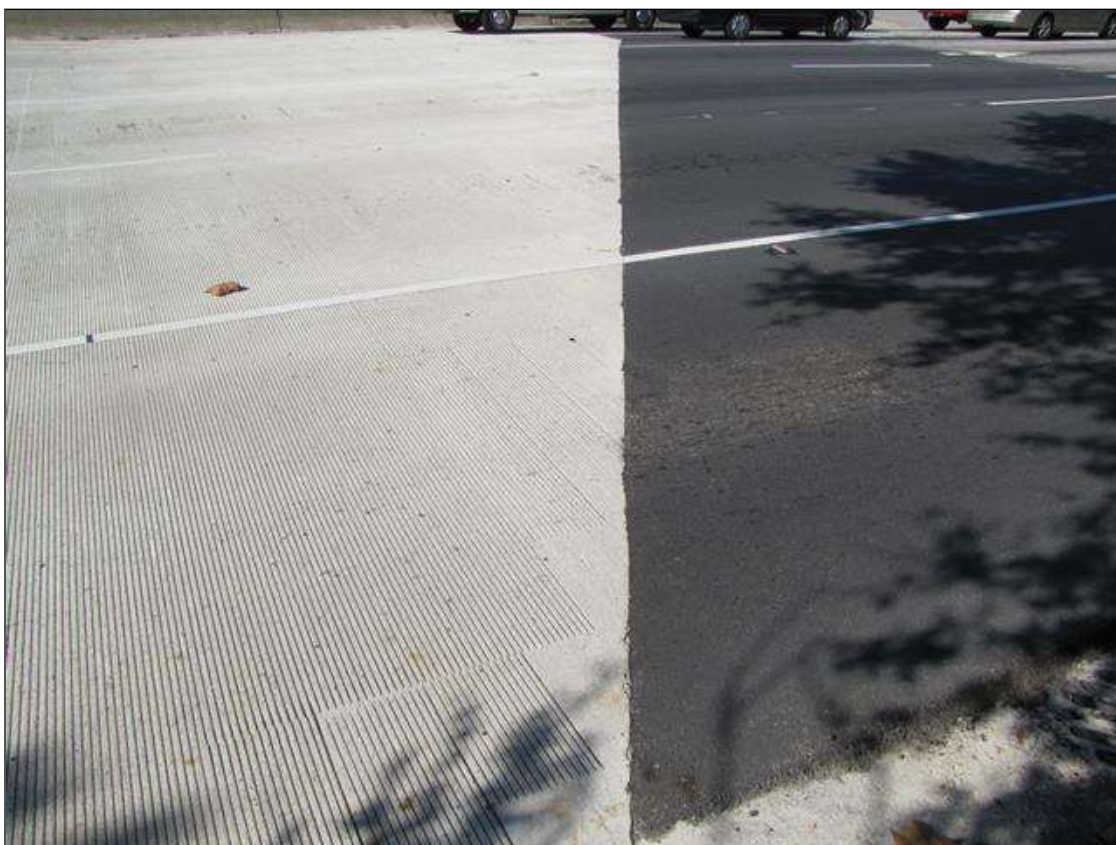
JOINT AT BENT 2



LOOKING NORTH OVER CREEK (DOWNSTREAM)



JOINT AT BENT 1



PAVEMENT TO DECK TRANSITION AT END BENT 1



LEFT BRIDGE RAIL



LOOKING EAST



RIGHT BRIDGE RAIL



ATTENUATOR AT WEST END



END BENT 2 PROFILE (LEFT SIDE)



END BENT 2 PROFILE (CENTER)



END BENT 2 PROFILE (RIGHT SIDE)



BENT 3 PROFILE



BENT 2 PROFILE



BEAM 3 BEARING AT END BENT 2 (BEAMS 1 AND 2 SIMILAR)



BEAM 5 BEARING AT END BENT 2 (BEAMS 4 AND 6 THRU 10 SIMILAR)



(12) 4 IN PVC UTILITY PIPES IN BAY 2 (UNDERSIDE OF SPAN 4 SHOWN)



BEAM 1 BEARING AT BENT 3 (BEAMS 2, 3, 9, AND 10 SIMILAR)



BEAM 12 BEARING AT BENT 3 (BEAMS 11 SIMILAR)



TYPICAL UNDERDECK FOR BEAMS 1 THRU 3 (SPAN 3 SHOWN)



TYPICAL UNDERDECK FOR BEAMS 4 THRU 10 (SPAN 3 SHOWN)



TYPICAL UNDERDECK FOR BEAMS 11 THRU 14 (SPAN 3 SHOWN)



BENT 3 PROFILE



LOOKING NORTH THROUGH SPAN 4 AT GREENWAY.



UPSTREAM (SOUTH) PROFILE



LOOKING SOUTH THROUGH SPAN 4 AT GREENWAY



DOWNSTREAM (NORTH) PROFILE



TYPICAL BEARING (BEAM 2 SPAN 1 AT BENT 1)



CAP REPAIR AT BENT 1 UNDER BEAMS 8, 9, 10 IN SPANS 1 AND 2 (WEST SIDE SHOWN)



TYPICAL BEARING (BEAM 13 SPANS 1 AND 2 AT BENT 1 SHOWN)



BENT 1 PROFILE



END BENT 1 PROFILE

Stream Bed Soundings

(Profile diagram on following sheet)

County WAKE

Structure Number: 910091

Inspection Date 09/18/2017

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	3.600	0.000	FILL FACE AT END BENT 1
1.000	3.600	0.000	
1.100	7.700	0.000	TOP OF CAP
3.000	7.700	0.000	
3.010	8.400	7.200	STREAM FACE
15.000	10.700	0.000	
33.000	14.400	0.000	
50.500	23.800	21.000	BENT 1
60.000	25.000	0.000	Water Surface/Water Edge (WSWE)
72.000	26.300	0.000	
85.000	25.900	0.000	
101.000	25.000	0.000	Water Surface/Water Edge (WSWE)
102.000	23.800	0.000	
104.250	24.900	23.200	BENT 2
133.000	22.100	0.000	
156.750	18.100	0.000	
157.000	17.200	17.600	BENT 3
165.000	17.000	0.000	EDGE OF TRAIL
175.000	17.000	0.000	
179.000	16.900	0.000	
190.000	13.500	0.000	
205.490	7.600	5.920	STREAM FACE
205.500	7.750	0.000	
207.990	7.750	0.000	TOP OF CAP
208.000	3.600	0.000	
209.500	3.600	0.000	FILL FACE AT END BENT 2

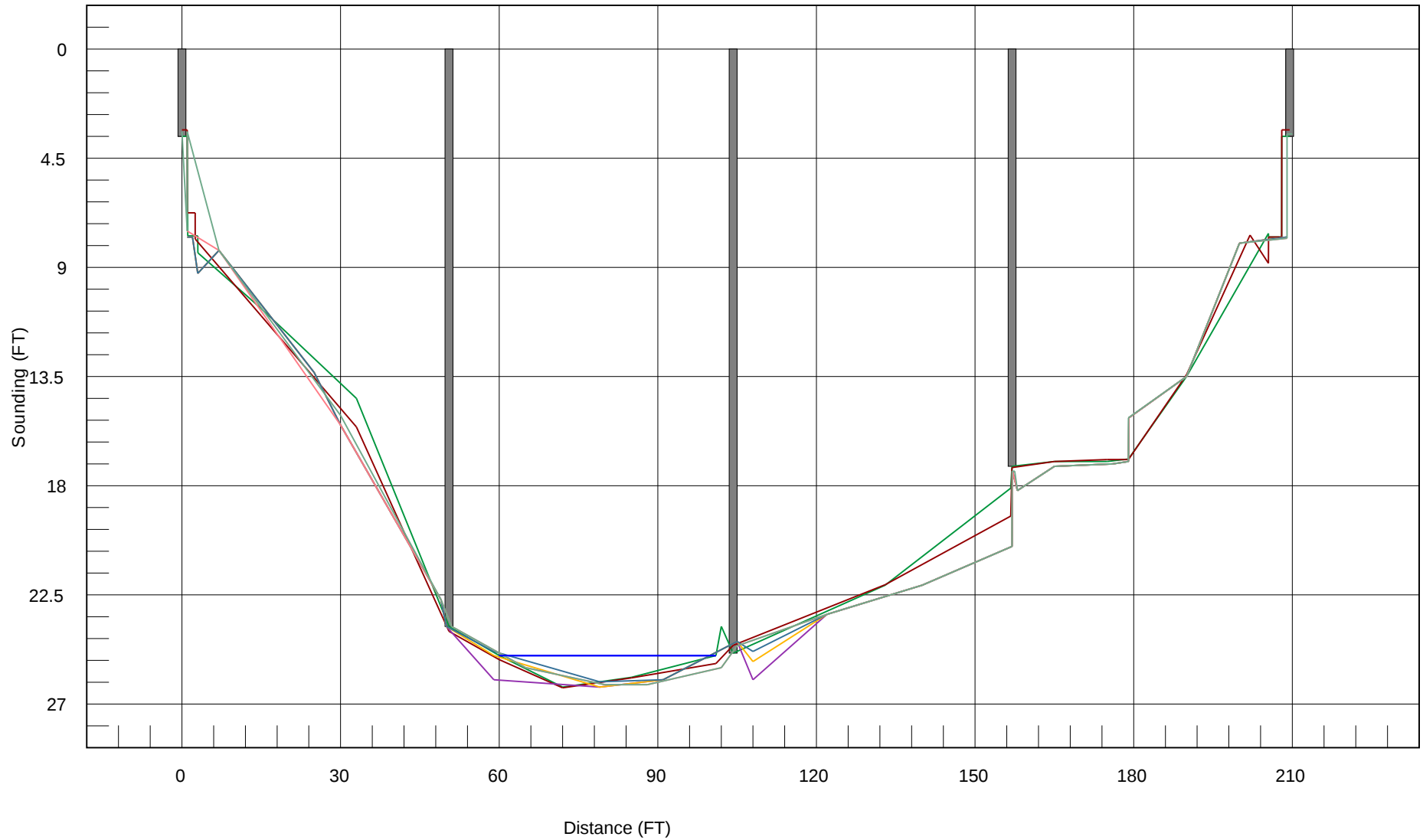
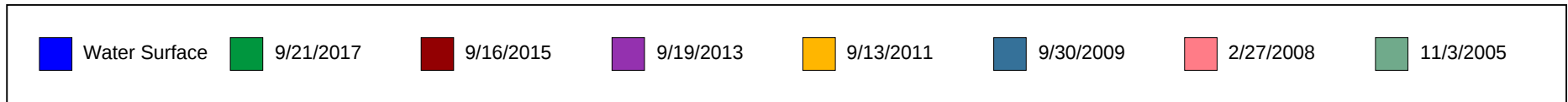
Bridge: 910091

County: WAKE

Date: 09/21/2017

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)



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

Run Date: 01/29/2018

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	910091		SUFFICIENCY RATING =		9	
(8) STRUCTURE NUMBER(FEDERAL)		000000001830091		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		21000700					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION		CODE	
(3) COUNTY CODE 183	(4) PLACE CODE	55000		(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - CRABTREE CREEK				(104)HIGHWAY SYSTEM	Is on the NHS	1	
(7) FACILITY CARRIED US70 WBL				(26) FUNCTIONAL CLASS -	Other Principal Arterial	14	
(9) LOCATION 0.2 MI. W. JCT. US1				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	Left Parallel Structure	L	
(16)LAT 35° 50' 17.10"	(17)LONG 78° 40' 25.04"			(102)DIRECTION OF TRAFFIC -	1-way Traffic	1	
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions	T	
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	On the National Network	1	
				(20) TOLL	On Free Road	3	
STRUCTURE TYPE AND MATERIAL				(31) MAINTAIN -	State Highway Agency	01	
(43) STRUCTURE TYPE MAIN: Concrete				(22) OWNER -	State Highway Agency	01	
TYPE - Tee Beam	CODE	104		(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
(44) STRUCTURE TYPE APPR :				CONDITION		CODE	
TYPE -	CODE	000		(58) DECK		6	
(45) NUMBER OF SPANS IN MAIN UNIT		4		(59) SUPERSTRUCTURE		5	
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE		5	
(107)DECK STRUCTURE TYPE - 1	CODE			(61) CHANNEL & CHANNEL PROTECTION		7	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS		N	
(A) TYPE OF WEARING SURFACE -	CODE			LOAD RATING AND POSTING		CODE	
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD	HS 20	5	
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD -	Load Factor	1	
				(64) OPERATING RATING -	HS-1	1	
(27) YEAR BUILT		1952		(65) INVENTORY RATING METHOD -	Load Factor	1	
(106)YEAR RECONSTRUCTED				(66) INVENTORY RATING -	HS-1	1	
(42) TYPE OF SERVICE : ON - Highway - Pedestrian				(70) BRIDGE POSTING -	No Posting Required	5	
UNDER - Waterway	CODE	55		(41) STRUCTURE OPEN, POSTED ,OR CLOSED		D	
(28) LANES: ON STRUCTURE 5 UNDER STRUCTURE		0		DESCRIPTION -	Open Temporary Shoring		
(29) AVERAGE DAILY TRAFFIC		38500		APPRAISAL		CODE	
(30) YEAR OF ADT 2013	(109) TRUCK ADT PCT	12%		(67) STRUCTURAL EVALUATION		3	
(19) BYPASS OR DETOUR LENGTH		1 MI		(68) DECK GEOMETRY		5	
GEOMETRIC DATA				(69) UNDERCLEARANCES,VERTI & HORIZ		N	
(48) LENGTH OF MAXIMUM SPAN		53 FT		(71) WATERWAY ADEQUACY		5	
(49) STRUCTURE LENGTH		209 FT		(72) APPROACH ROADWAY ALIGNMENT		8	
(50)CURB OR SIDEWALK: LEFT 5 FT RIGHT		0 FT		(36) TRAFFIC SAFETY FEATURES		0111	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		73 FT		(113)SCOUR CRITICAL BRIDGES		8	
(52) DECK WIDTH OUT TO OUT		80.667 FT		PROPOSED IMPROVEMENTS			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		79 FT		(75) TYPE OF WORK -		CODE	
(33) BRIDGE MEDIAN - No Median	CODE	1		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW 30°	(35) STRUCTURE FLARED	0		(94) BRIDGE IMPROVEMENT COST			
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(95) ROADWAY IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		73 FT		(96) TOTAL PROJECT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(114)FUTURE ADT 77000	(115) YEAR FUTURE ADT	2025	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		INSPECTIONS			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(90) INSPECTION DATE		09/21/2017	
NAVIGATION DATA				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE		
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		A) FRACTURE CRIT DETAIL -	NO	A)	
(111)PIER PROTECTION -	CODE			B) UNDERWATER INSP -	NO	B)	
(39) NAVIGATION VERTICAL CLEARANCE		0		C) OTHER SPECIAL INSP	NO	C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		SCOUR			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 01/29/2018

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WAKE	5	1	910091	209	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
US70 WBL	CRABTREE CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.2 MI. W. JCT. US1		RALEIGH

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
14	FA	NFA	38500 2013	LT 379 RT 41

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1952	SHPMC	4838		HS 20

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
	DOH	5.4080011	TAN	120	ON 5	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC	0	FT	HC	0	FT	23	FT

SUPERSTRUCTURE :	RC DECK GIRDERS WIDENED WITH I-BEAMS
------------------	--------------------------------------

SUBSTRUCTURE :	EBTS:RC CAP ON TIM., PPC & STL. PILES, INT.BTS:RCP&B, BT#1&2:SPR.FTGS, BT#3:PILE & SPR.FTGS
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SPANS :	1@50.5';1@53.75';1@52.5';1@52.3'
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BEAMS OR GIRDERS :	14 LNS VAR. I-BEAMS @ VAR. CTS.
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
8.5" RC/NO AWS	7.5" PIPE	80.667 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
73 FT	78 FT	LT 5 FT RT 0 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-1	HS-1	RCDG	SV	TTST	DATE

SYSTEM :	GREEN LINE ROUTE :
Primary U.S. Route	Y

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 910091

County WAKE

Date: 09/21/2017

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3306	Maintain Concrete Superstructure Components	SF	2	Span 2 Beam 4: 24 IN X 16 IN X 3 IN DEEP SPALL WITH EXPOSED REBAR IN LEFT FACE AT BENT 2 (PM).	
 3306	Maintain Concrete Superstructure Components	SF	2	Span 3 Beam 4: 18 IN X 18 IN X 2 IN DEEP SPALL WITH EXPOSED REBAR IN RIGHT FACE AT BENT 3 (PM)	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 4 Beam 10: 10 IN X 12 IN X 3 IN DEEP SPALL IN RIGHT FACE AT BENT 3 (PM).	
 3348	Maintain Concrete Substructure Components	LF	2	Bent 2 Cap 2: 15 IN X 6 IN X 3 IN DEEP SPALL BELOW BEAM 4 WITH LOSS OF BEARING AREA (PM).	
 3348	Maintain Concrete Substructure Components	LF	2	Bent 2 Cap 3: 18 IN X 4 IN X 3 IN DEEP SPALL BELOW BEAM 5 IN WEST FACE WITH LOSS OF BEARING AREA (PM).	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910091

County WAKE

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/20/2017	MORRIS ISRAELNAIM	
Details		
Span 2 Beam 4: 24 IN X 16 IN X 3 IN DEEP SPALL WITH EXPOSED REBAR IN LEFT FACE AT BENT 2 (PM).		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/20/2017	MORRIS ISRAELNAIM	
Details		
Span 3 Beam 4: 18 IN X 18 IN X 2 IN DEEP SPALL WITH EXPOSED REBAR IN RIGHT FACE AT BENT 3 (PM)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910091 County WAKE

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
09/20/2017	MORRIS ISRAELNAIM	
Details		
Span 4 Beam 10: 10 IN X 12 IN X 3 IN DEEP SPALL IN RIGHT FACE AT BENT 3 (PM).		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/20/2017	MORRIS ISRAELNAIM	
Details		
Bent 2 Cap 2: 15 IN X 6 IN X 3 IN DEEP SPALL BELOW BEAM 4 WITH LOSS OF BEARING AREA (PM).		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910091

County WAKE

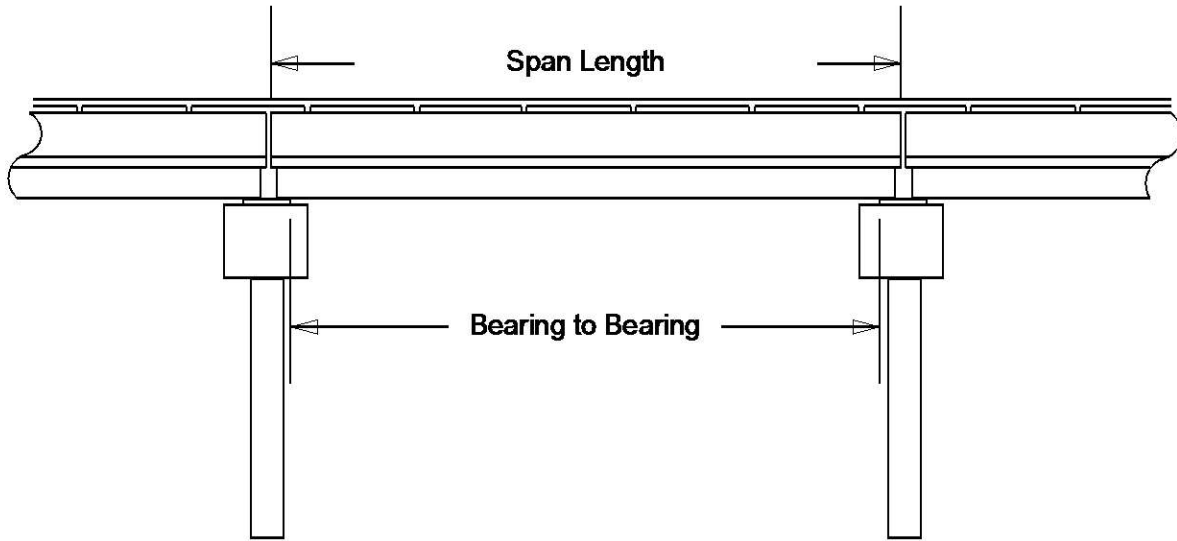
THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/20/2017	MORRIS ISRAELNAIM	
Details		
Bent 2 Cap 3: 18 IN X 4 IN X 3 IN DEEP SPALL BELOW BEAM 5 IN WEST FACE WITH LOSS OF BEARING AREA (PM).		

Structure Data Worksheet

Spans

County: WAKE Structure No: 910091 Date: 09/21/2017 Inspected By: MI



Span No	Span Length	Bearing to Bearing	Comments
1	51.120	49.083	NBIS LENGTH = 203'-2"
2	53.750	52.453	
3	52.490	51.292	
4	52.302	50.151	

Bridge Inspection Field Sketch

US HWY 70 LOOKING WEST



MEASUREMENTS TAKEN 30FT WEST OF BRIDGE

Roadway	73ft Wide	6 Paved Lanes	Looking West
Left Shoulder	1ft Wide	1ft Paved	
Right Shoulder	5ft Wide	5ft Paved	
Left Guardrail	1ft from road		
Right Guardrail	5ft from road		

LIDAR VERIFIED 090513

MEASUREMENTS VERIFIED BY MI/JIB 9/21/2017

Title

APPROACH SLAB

Description

EAST APPROACH LOOKING WEST

Bridge No: 910091

Drawn By: RLB

Date: 2/12/2008

File Name: S0214000024

Bridge Inspection Field Sketch

BENT CONSTRUCTED FOR FIRST BRIDGE WIDENING
INTERIOR BENTS TWO AND THREE SIM.

2.500 + / - COLUMNS TAPERED

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.				
14.167 ft.	2.500 ft.	3.000 ft.	3.50 ft.	3.25 ft.	2.750 ft.	1.00 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	7.42 ft.	2.500 ft.	2.667 ft.		Vertical	No	No	No	No
2	Concrete		2.500 ft.	2.667 ft.		Vertical	No	No	No	No
MEASUREMENTS MODIFIED BY MI/JIB 9/21/2017										
Bent/Abutment #: 1			Similar Bents:							

Title
INTERIOR BENT 1

Description
TWO COLUMNS

Bridge No: 910091

Drawn By: ado

Date: 10/5/2009

File Name: S0010034783

Bridge Inspection Field Sketch

ORIGINAL BENT WHEN BUILT

COLUMNS TAPERED + / - 2.500

INTERIOR BENTS TWO
AND THREE SIM.

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.
35.000 ft.	2.500 ft.	2.500 ft.	5.000 ft.	5.000 ft.	1.917 ft.	1.917 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	12.820 ft.	2.500 ft.	2.000 ft.		Vertical	No	No	No	No
2	Concrete	12.820 ft.	2.500 ft.	2.000 ft.		Vertical	No	No	No	No
3	Concrete		2.500 ft.	2.000 ft.		Vertical	No	No	No	No

MEASUREMENTS MODIFIED BY MI/JIB 9/21/2017

Bent/Abutment #: 1

Similar Bents:

Title

ORIGINAL INT. BENT 1

Description

THREE TAPERED COLUMNS

Bridge No: 910091

Drawn By: ado

Date: 10/5/2009

File Name: S0010034784

Bridge Inspection Field Sketch

WORK LINE

LEFT SIDE TIED INTO ORIGINAL INT. BENT 1
INTERIOR BENTS TWO AND THREE SIM.



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.				
11.500 ft.	3.667 ft.	2.500 ft.	7.167 ft.	4.250 ft.	1.833 ft.	2.250 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		3.500 ft.	3.500 ft.		Vertical	No	No	No	No
MEASUREMENTS MODIFIED BY MI/JIB 9/21/2017										
Bent/Abutment #: 1			Similar Bents:							

Title
RIGHT SIDE INT. BNT. 1

Description
DRILLED SHAFT

Bridge No: 910091

Drawn By: ado

Date: 10/5/2009

File Name: S0010034785

Bridge Inspection Field Sketch

LEFT SIDE OF BENT ,LOOKING EAST

8'-0"

ADDED AS PART OF BRIDGE WIDENING

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.				
21.375 ft.	4.167 ft.	2.50 ft.	9.833 ft.	2.813 ft.	2.250 ft.	1.620 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	8.73 ft.	4.0 ft.	4.0 ft.		Vertical	No	No	No	No
2	Concrete		2.500 ft.	2.667 ft.		Vertical	No	No	No	No
MEASUREMENTS MODIFIED BY MI/AKO/WOK 9/21/2017										
Bent/Abutment #: 1 Similar Bents:										

Title

LEFT INT.BT. 1

Description

SINGLE DRILLED SHAFT

Bridge No: 910091

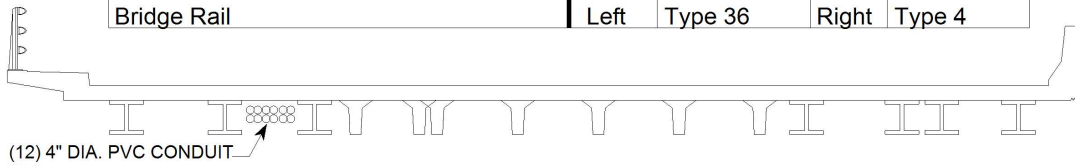
Drawn By: ado

Date:10/5/2009

File Name:S0010034782

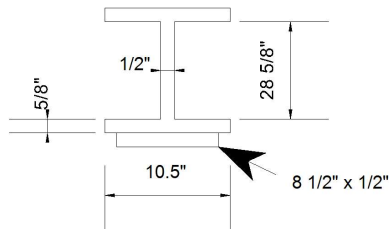
Bridge Inspection Field Sketch

Deck Width/Out to Out	80.667ft	Between Rails			78.000ft
Clear Roadway	73.000ft	Wearing Surface			
Median Width		Median Height			
Curb Height		Left	0.5ft	Right	
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	1.250ft	Right	1.417ft
Top of Rail to Deck/Wearing Surface		Left	4.000ft	Right	2.667ft
Bridge Rail		Left	Type 36	Right	Type 4

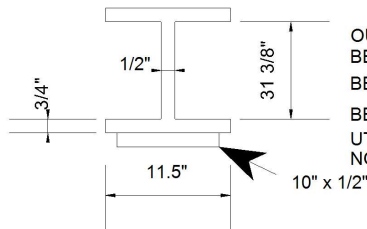


Measurements for Span #	1		
Deck Thickness	0.792	Left Overhang	3.125
Top of Rail to Bottom of Beam	7.683	Right Overhang	2.75

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	8.25ft	2.417 ht. x .875 w x .052 flng. thick
2	Steel I Beam	7.50ft	2.417 ht. x .875 w x .052 flng. thick
3	Steel I Beam	3.75ft	2.417 ht. x .875 w x .052 flng. thick
4	RC Deck Girder	5.25ft	3.104 ht. x 1.5 wide
5	RC Deck Girder	1.50ft	3.042 ht. x 1.5 wide
6	RC Deck Girder	6.75ft	3.146 ht. x 1.500 wide
7	RC Deck Girder	6.75ft	3.250 ht. x 1.500 wide
8	RC Deck Girder	6.75ft	3.292 ht. x 1.500 wide
9	RC Deck Girder	6.75ft	3.271 ht. x 1.500 wide
10	RC Deck Girder	3.88ft	3.250 ht. x 1.500 wide
11	Steel I Beam	8.00ft	2.698 ht. x .948 wide x .062 flng thick.
12	Steel I Beam	3.25ft	2.698 ht. x .948 wide x .062 flng thick.
13	Steel I Beam	6.42ft	2.417 ht. x .875 wide x .052 flng. thick.
14	Steel I Beam		2.417 ht. x .875 wide x .052 flng. thick.



BEAMS 1-3, 13-14



BEAMS 11-12

OUT TO OUT, RIGHT OVERHANG, AND TOP OF RAIL/BOTT. OF BEAM CHANGED
BEAM 10 AND 13 SPACINGS CHANGED
BEAM DIMENSIONS CHANGED
UTILITIES ADDED
NO CURVED GIRDERS

MEASUREMENTS MODIFIED BY MI/JIB 9/21/2017

Title

TYPICAL SECTION

Description

LOOKING EAST

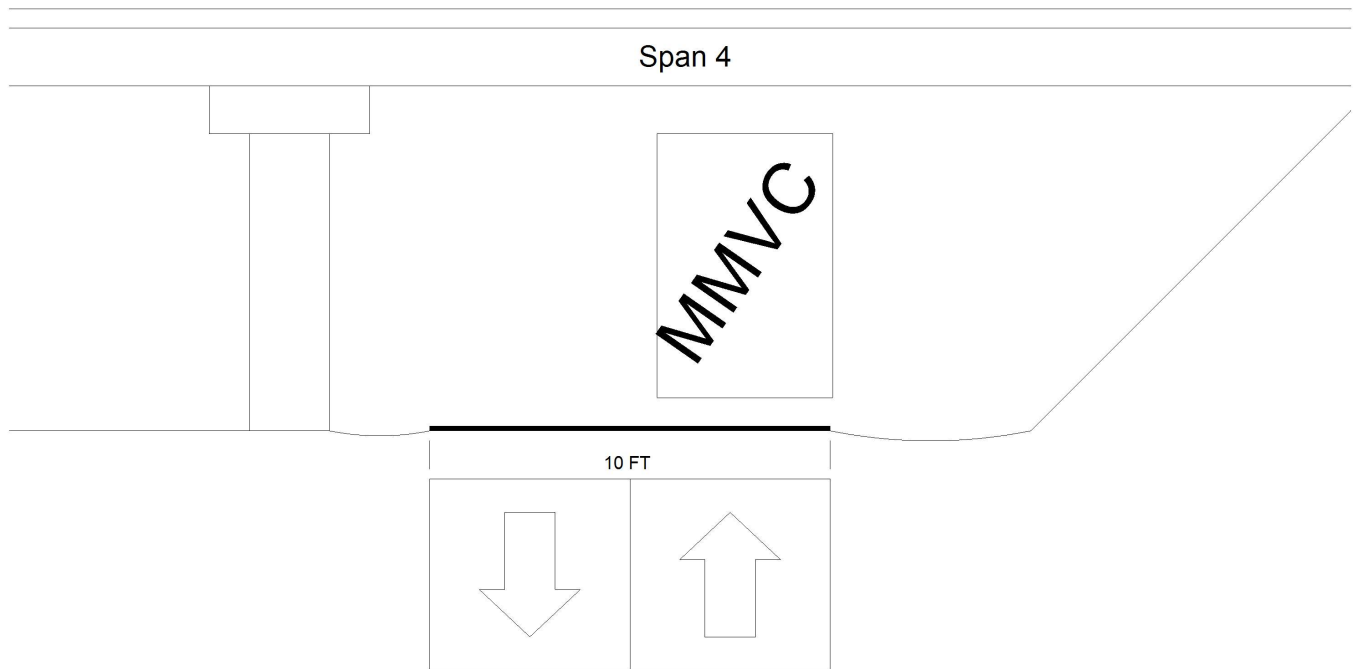
Bridge No: 910091

Drawn By: RLB

Date: 2/12/2008

File Name: S0214000021

Bridge Inspection Field Sketch



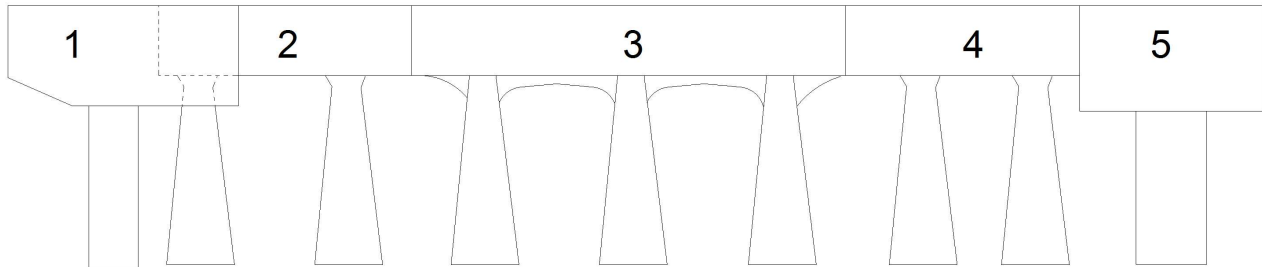
Roadway 1		Direction of Traffic	North South
Distance to Left Rail		Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	2.5FT
Distance to Right Toe of Slope	5FT	Distance to Right Bent	
MMVC	9.42 Ft at Beam 1, 0 FT from RIGHT EDGE OF TRAIL		
MVC	9.42 Ft at Beam 1, 0 FT from RIGHT EDGE OF TRAIL		

LOOKING EAST

MEASUREMENTS VERIFIED BY MI/JIB 9/21/2017

Title VERTICAL CLEARANCE		Description VERTICAL CLEARANCE FOR GREENWAY	
Bridge No: 910091	Drawn By: MRM	Date: 9/15/2015	File Name: S0350000401

Bridge Inspection Field Sketch



MEASUREMENTS MODIFIED BY MI/JIB/AKO/WOK 9/21/2017

Cap 1 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.				
21.375 ft.	4.167 ft.	2.500 ft.	9.833 ft.	2.813 ft.	2.250 ft.	1.620 ft.				
Cap 2 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.				
7.500 ft.	2.500 ft.	2.500 ft.	4.000 ft.	3.500 ft.	2.000 ft.	5.500 ft.				
Cap 3 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.				
35.000 ft.	2.500 ft.	2.500 ft.	5.000 ft.	5.000 ft.	1.917 ft.	1.917 ft.				
Cap 4 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.				
14.167 ft.	2.500 ft.	3.000 ft.	3.500 ft.	3.250 ft.	2.750 ft.	1.000 ft.				
Cap 5 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.				
11.500ft.	3.667 ft.	2.500 ft.	7.167 ft.	4.250 ft.	1.833 ft.	2.250 ft.				
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	8.73	4.0	4.0		Vertical	No	No	No	No
2	Concrete	7.25	2.5	2.67		Vertical	No	No	No	No
3	Concrete	8.25	2.5	2.67		Vertical	No	No	No	No
4	Concrete	12.82	2.5	2.00		Vertical	No	No	No	No
5	Concrete	12.82	2.5	2.00		Vertical	No	No	No	No
6	Concrete	7.75	2.5	2.00		Vertical	No	No	No	No
7	Concrete	7.42	2.5	2.67		Vertical	No	No	No	No
8	Concrete	9.00	2.5	2.67		Vertical	No	No	No	No
9	Concrete		3.5	3.5		Vertical	No	No	No	No
Bent/Abutment #: 1			Similar Bents:							

Title

OVERALL BENT SKETCH

Description

BENT 1, LOOKING EAST

Bridge No: 910091

Drawn By: HMS

Date: 9/22/2015

File Name: S0350000403