



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **STRUCTURE DATA CHANGES**

Structure Safety Report

Routine Element Inspection

COUNTY: COLUMBUS STRUCTURE NUMBER: 230068 FREQUENCY: 24 MONTHS

FACILITY CARRIED: NC214 MILE POST:

LOCATION: 0.7 MI E JCT SR 1757

FEATURE INTERSECTED: GREEN SWAMP

LATITUDE: 34° 19' 19.17" LONGITUDE: 78° 28' 9.34"

SUPERSTRUCTURE: RCDG

SUBSTRUCTURE: EBT1&IBTS:RC CAPS/TIMBER PILES(EBT2),RC ABUT

SPANS: 3@24"6

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

PRESENT CONDITION: Fair INSPECTION DATE: 05/06/2015

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: 2 DELINEATORS



LOOKING EAST (SAM POTTS HIGHWAY)

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>

INSPECTED BY Ray L. Kisner	SIGNATURE <i>Ray L. Kisner</i>	ASSISTED BY R. D. Heath
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**BRIDGE INSPECTION RECORD AND SUMMARY
FOR SHORED STRUCTURES OR STRUCTURES
WITH TEMPORARY REPAIRS MADE TO KEEP
A BRIDGE OPEN**

BRIDGE:

68

COUNTY:

Columbus

DATE:

4-6-11

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 :

S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION

CODEBY

T

TSC

S I & A ITEM 59 - SUPERSTRUCTURE

S I & A ITEM 60 - SUBSTRUCTURE

4

TSC

S I & A ITEM 64 OPERATING RATING

HS

BY:

S I & A ITEM 66 - INVENTORY RATING

HS

BY:

COMMENTS

Some Pits Encased with Concrete. Temp Repairs 4/7/11

Not Temp - TMS 08/15/15

Span Element Report

Structure Number: 230068

Inspection Date: 05/06/2015

Span Number 1

Span Length 24.5 Feet

Number of Beams/Girders: 6

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
38		Reinforced Concrete Slabs	882	882	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	150	150	0	0	0	0	3306
215		Reinforced Concrete Abutment	66	0	66	0	0	66	3350
331		Reinforced Concrete Bridge Railing	50	50	0	0	0	0	3318
510		Wearing Surface	829	686	68	75	0	143	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 2

Span Length 24.5 Feet

Number of Beams/Girders: 6

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
38		Reinforced Concrete Slabs	882	882	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	150	150	0	0	0	0	3306
229		Other Pile	8	0	0	8	0	21	3348
234		Reinforced Concrete Pier Cap	36	36	0	0	0	0	3348
331		Reinforced Concrete Bridge Railing	50	50	0	0	0	0	3318
510		Wearing Surface	829	720	59	50	0	109	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 3

Span Length 24.5 Feet

Number of Beams/Girders: 6

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
38		Reinforced Concrete Slabs	882	882	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	150	150	0	0	0	0	3306
215		Reinforced Concrete Abutment	66	66	0	0	0	0	3350
229		Other Pile	8	0	0	8	0	11	3348
234		Reinforced Concrete Pier Cap	36	35	0	1	0	1	3348
331		Reinforced Concrete Bridge Railing	50	50	0	0	0	0	3318
510		Wearing Surface	829	720	34	75	0	109	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 230068

Inspection Date: 05/06/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	38	Reinforced Concrete Slabs	882	882	0	0	0	0	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	25	25	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	25	25	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	829	686	68	75	0	143	2816	☐ Requested
☒ Beam	1	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	2	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	3	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	4	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	5	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	6	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	38	Reinforced Concrete Slabs	882	882	0	0	0	0	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	25	25	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	25	25	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	829	720	59	50	0	109	2816	☐ Requested
☒ Beam	1	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	2	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	3	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	4	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	5	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	6	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested

Structure Number: 230068

Inspection Date: 05/06/2015

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	38	Reinforced Concrete Slabs	882	882	0	0	0	0	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	25	25	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	25	25	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	829	720	34	75	0	109	2816	☐ Requested
☒ Beam	1	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	2	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	3	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	4	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	5	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested
☒ Beam	6	110	Reinforced Concrete Open Girder/Beam	25	25	0	0	0	0	3306	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 230068

Inspection Date: 05/06/2015

Span Number 1

Span 1	Wearing Surfaces		Component Name:		Asphalt Wearing Surface						
Element: 510	Name	Wearing Surface	Qty:	829	Lvl 2:	68	Lvl 3	75	Lvl 4	0 Maint. Qty	143
Defect Description:											

34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole. SEALED TRANSVERSE CRACK OVER ABUTMENT 1

30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 2- 15' LONG X 1/8" WIDE LONGITUDINAL CRACKS IN EAST BOUND LANE

20 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/4" WIDE LONGITUDINAL CRACK AT CENTERLINE

25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE LONGITUDINAL CRACK IN WEST BOUND LANE

34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole. SEALED TRANSVERSE CRACK OVER BENT 1

Span Number 2

Span 2	Wearing Surfaces			Component Name:		Asphalt Wearing Surface					
Element: 510	Name	Wearing Surface	Qty:	829	Lvl 2:	59	Lvl 3	50	Lvl 4	0 Maint. Qty	109
Defect Description:											

25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE LONGITUDINAL CRACK IN WEST BOUND LANE

25 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole. SEALED CRACKS IN WEST BOUND LANE

25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE LONGITUDINAL CRACK IN EAST BOUND LANE

34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole. SEALED TRANSVERSE CRACK OVER BENT 2

Span Number 3

Span 3	Wearing Surfaces		Component Name:		Asphalt Wearing Surface						
Element: 510	Name	Wearing Surface	Qty:	829	Lvl 2:	34	Lvl 3	75	Lvl 4	0 Maint. Qty	109
Defect Description:											

45 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" CRACKING IN EAST BOUND LANE

30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE CRACKING IN WEST BOUND LANE

34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole. SEALED TRANSVERSE CRACK OVER END BENT 2

Substructure Detailed Element Quantities

Structure Number: 230068

Inspection Date: 05/06/2015

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	215	Reinforced Concrete Abutment	66	0	66	0	0	66	3350	☐ Requested

Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	36	36	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	1	229	Other Pile	1	0	0	1	0	3	3348	☐ Requested
☐ Piles and Columns	2	229	Other Pile	1	0	0	1	0	3	3348	☐ Requested
☐ Piles and Columns	3	229	Other Pile	1	0	0	1	0	3	3348	☐ Requested
☐ Piles and Columns	4	229	Other Pile	1	0	0	1	0	3	3348	☐ Requested
☐ Piles and Columns	5	229	Other Pile	1	0	0	1	0	3	3348	☐ Requested
☐ Piles and Columns	6	229	Other Pile	1	0	0	1	0	2	3348	☐ Requested
☐ Piles and Columns	7	229	Other Pile	1	0	0	1	0	2	3348	☐ Requested
☐ Piles and Columns	8	229	Other Pile	1	0	0	1	0	2	3348	☐ Requested

Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	36	35	0	1	0	1	3348	☐ Requested
☐ Piles and Columns	1	229	Other Pile	1	0	0	1	0	2	3348	☐ Requested
☐ Piles and Columns	2	229	Other Pile	1	0	0	1	0	2	3348	☐ Requested
☐ Piles and Columns	3	229	Other Pile	1	0	0	1	0	2	3348	☐ Requested
☐ Piles and Columns	4	229	Other Pile	1	0	0	1	0	1	3348	☐ Requested
☐ Piles and Columns	5	229	Other Pile	1	0	0	1	0	1	3348	☐ Requested
☐ Piles and Columns	6	229	Other Pile	1	0	0	1	0	1	3348	☐ Requested
☐ Piles and Columns	7	229	Other Pile	1	0	0	1	0	1	3348	☐ Requested
☐ Piles and Columns	8	229	Other Pile	1	0	0	1	0	1	3348	☐ Requested

Structure Number: 230068

Inspection Date: 05/06/2015

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	215	Reinforced Concrete Abutment	66	66	0	0	0	0	3350	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 230068

Inspection Date: 05/06/2015

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 215 Name Reinforced Concrete Abutment Qty: 66 Lvl 2: 66 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 66

Defect Description:

COARSE AGGREGATE EXPOSURE TO 1/4"
NW WING - 4" VERTICAL X 2" WIDE X 3" PROBE
CRACKING AT NW AND SW WINGS
COARSE AGGREGATE EXPOSED TO 1/4"

10 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 10' OF HAIRLINE MAP
CRACKING IN ABUTMENT 1 WING AT SOUTHWEST CORNER

ABUTMENT 1 WALL HAS SCALING WITH EXPOSED AGGREGATE 2' HIGH (PHOTO # 7279)
ABUTMENT 1 WINGWALL HAS 5' LONG X 1/8" WIDE DIAGONAL CRACK AT NORTHWEST CORNER (PHOTO # 7280)

Bent 1	Row 1	Caps	1
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Element: 234 Name Reinforced Concrete Pier Cap Qty: 36 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

ALL TIMBER PILES AT BENT 1 ARE ENCASED IN CONCRETE (PHOTO # 7277)

Bent 1	Row 1	Piles and Columns	1
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Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 3

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 3"
PILES AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 1	Row 1	Piles and Columns	2
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Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 3

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 3"
PILES AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 1	Row 1	Piles and Columns	3
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Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 3

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 3"
PILES AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 1	Row 1	Piles and Columns	4
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Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 3

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 2.5"

PILES AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 1	Row 1	Piles and Columns	5
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Structure Number: 230068

Inspection Date: 05/06/2015

Element: 229	Name	Other Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	3
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Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
 COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
 WATER DEPTH - 2.5"

PILE 5 AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 1	Row 1	Piles and Columns	6
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Element: 229	Name	Other Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	2
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Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
 COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
 WATER DEPTH - 2"
 PILES AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 1	Row 1	Piles and Columns	7
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Element: 229	Name	Other Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	2
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Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
 HORIZONTAL CRACK TO 1/16"(6" ABOVE W/L)
 COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
 WATER DEPTH - 2"
 PILES AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 1	Row 1	Piles and Columns	8
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Element: 229	Name	Other Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	2
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Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
 COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
 WATER DEPTH - 1.6"
 PILES AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)

Bent 2	Row 1	Caps	1
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Element: 234	Name	Reinforced Concrete Pier Cap	Qty:	36	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	1
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Defect Description:

1 Feet of Delamination/Spall/Patched Area: Spall greater than 1 inch deep or greater than 6 inches in diameter. Patched area that is unsound or showing distress. Condition does not warrant structural Review SPALL 11" WIDE X 3" HIGH X 6" DEEP ON SPAN 2 FACE OVER PILE 6

Bent 2	Row 1	Piles and Columns	1
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Element: 229	Name	Other Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	2
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Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
 COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
 WATER DEPTH - 1.7"
 PILES AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)

Bent 2	Row 1	Piles and Columns	2
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Element: 229	Name	Other Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	2
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Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
 COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
 WATER DEPTH - 1.5"
 PILES AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)

Bent 2	Row 1	Piles and Columns	3
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Structure Number: 230068

Inspection Date: 05/06/2015

Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 2

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 1.5"
PILES AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)

Bent 2	Row 1	Piles and Columns	4
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Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 1"

PILE 4 AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)

Bent 2	Row 1	Piles and Columns	5
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Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
WEST QUADRANT - VOID 3" DIAMETER X 1.5" DEEP AT W/L
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 1"
PILES AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)

Bent 2	Row 1	Piles and Columns	6
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Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 1"
PILES AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)

Bent 2	Row 1	Piles and Columns	7
--------	-------	-------------------	---

Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
WATER DEPTH - 1"
PILES AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)

Bent 2	Row 1	Piles and Columns	8
--------	-------	-------------------	---

Element: 229 Name Other Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

PLANS INDICATE CONCRETE ENCASED TIMBER PILES
COARSE AGGREGATE EXPOSED TO 1/4" WITH RANDOM POP-OUTS TO 1" DEEP
1/8" HORIZONTAL CRACK X FULL CIRCUMFERENCE NOTED ABOVE W/L
WATER DEPTH - 0.8"
PILES AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)
PILE 8 AT BENT 2 HAS A 1/8" CRACK IN CONCRETE ENCASEMENT (PHOTO # 7291)

National Bridge and NC Inspection Items

Structure Number: 230068

Inspection Date: 05/06/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
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	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	F	10	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	6		

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	N
Inspection Time	Hours	8
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 230068

Inspection Date: 05/06/2015

Item	Superstructure - Item 59	Grade 5	Maint Code	Qty. 0
Details	NO BEARINGS ARE VISIBLE (PHOTO # 7289)			
Item	Substructure - Item 60	Grade 5	Maint Code	Qty. 0
Details	ALL TIMBER PILES AT BENT 1 ARE ENCASED IN CONCRETE (PHOTO # 7277)			
	ALL PILES AT BENT 2 ARE FULLY ENCASED IN CONCRETE, NOT VISIBLE (PHOTO # 7283)			
Item	Channel and Channel Protection - Item 61	Grade 7	Maint Code	Qty. 0
Details	THERE ARE CUT OFF PILES IN SPAN 1 WATERWAY (PHOTO # 7276)			
Item	Approach Roadway Alignment - Item 72	Grade 8	Maint Code	Qty. 0
Details	APPROACH CURB CRACKED AT SOUTHWEST CORNER 2FT. MAINTENANCE (PHOTO # 7243)			
	GUARDRAIL SPACERS IN SOUTHWEST CORNER NOT ATTACHED TO BRIDGE RAIL (PHOTO # 7244) 2 FT. MAINTENANCE			
	NORTHWEST CORNER GUARDRAIL SPACERS NOT ATTACHED TO BRIDGE RAIL (PHOTO # 7250) 2 FT. MAINTENANCE			
	NORTHWEST CORNER APPROACH CURB CRACKED , NOT ATTACHED AND MOVED NORTH 6" (PHOTO # 7251) MAINTENANCE 10 FT.			
	NORTHWEST CORNER APPROACH SETTLED 4" IN LEFT SHOULDER (PHOTO # 7252) 9 SQ. FT. MAINTENANCE			
	SOUTHWEST CORNER APPROACH SETTLED 4" IN RIGHT SHOULDER (PHOTO # 7253) 9 SQ. FT. MAINTENANCE			
	NORTHEAST CORNER APPROACH SHOULDER SETTLED 5" (PHOTO # 7268) 9 SQ. FT. MAINTENANCE			
	SOUTHWEST CORNER APPROACH SHOULDER SETTLED 8" (PHOTO # 7270) 9 SQ. FT. MAINTENANCE			
Item	Other Equipment Used	Grade Y	Maint Code	Qty. 0
Details	BOOTS			
Item	Wingwalls	Grade F	Maint Code 3350	Qty. 10
Details	10' OF HAIRLINE MAP CRACKING IN ABUTMENT 1 WING AT SOUTHWEST CORNER			



APPROACH CURB CRACKED AT SOUTHWEST CORNER 2FT. MAINTENANCE (PHOTO # 7243)



GUARDRAIL SPACERS IN SOUTHWEST CORNER NOT ATTACHED TO BRIDGE RAIL (PHOTO # 7244) 2 FT. MAINTENANCE



NORTHWEST CORNER GUARDRAIL SPACERS NOT ATTACHED TO BRIDGE RAIL (PHOTO # 7250) 2 FT. MAINTENANCE



NORTHWEST CORNER APPROACH CURB CRACKED , NOT ATTACHED AND MOVED NORTH 6" (PHOTO # 7251) MAINTENANCE 10 FT.



NORTHWEST CORNER APPROACH SETTLED 4" IN LEFT SHOULDER (PHOTO # 7252) 9 SQ. FT.
MAINTENANCE



SOUTHWEST CORNER APPROACH SETTLED 4" IN RIGHT SHOULDER (PHOTO # 7253) 9 SQ. FT.
MAINTENANCE



Span 1 Wearing Surface: 34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces):
Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.
SEALED TRANSVERSE CRACK OVER ABUTMENT 1



Span 1 Wearing Surface: 30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 2- 15' LONG X 1/8" WIDE LONGITUDINAL CRACKS IN EAST BOUND LANE



Span 1 Wearing Surface: 20 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/4" WIDE LONGITUDINAL CRACK AT CENTERLINE



Span 1 Wearing Surface: 25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE LONGITUDINAL CRACK IN WEST BOUND LANE



Span 1 Wearing Surface: 34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces):
Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.
SEALED TRANSVERSE CRACK OVER BENT 1



Span 2 Wearing Surface: 25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE LONGITUDINAL CRACK IN WEST BOUND LANE



Span 2 Wearing Surface: 25 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces):
Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.
SEALED CRACKS IN WEST BOUND LANE



Span 2 Wearing Surface: 25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE LONGITUDINAL CRACK IN EAST BOUND LANE



Span 2 Wearing Surface: 34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces):
Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.
SEALED TRANSVERSE CRACK OVER BENT 2



Span 3 Wearing Surface: 45 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" CRACKING IN EAST BOUND LANE



Span 3 Wearing Surface: 30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE CRACKING IN WEST BOUND LANE



Span 3 Wearing Surface: 34 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces):
Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.
SEALED TRANSVERSE CRACK OVER END BENT 2



NORTHEAST CORNER APPROACH SHOULDER SETTLED 5" (PHOTO # 7268) 9 SQ. FT. MAINTENANCE



SOUTHWEST CORNER APPROACH SHOULDER SETTLED 8" (PHOTO # 7270) 9 SQ. FT. MAINTENANCE



End Bent 1 Abutment/Backwall : 10 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 10' OF HAIRLINE MAP CRACKING IN ABUTMENT 1 WING AT SOUTHWEST CORNER



CUT OFF PILES IN SPAN 1 WATERWAY



ALL TIMBER PILES AT BENT 1 ARE ENCASED IN CONCRETE (PHOTO # 7277)



PILE 5 AT BENT 1 ENCASEMENT HAS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7278)



ABUTMENT 1 WALL HAS SCALING WITH EXPOSED AGGREGATE 2' HIGH (PHOTO # 7279)



ABUTMENT 1 WINGWALL HAS 5' LONG X 1/8" WIDE DIAGONAL CRACK AT NORTHWEST CORNER (PHOTO # 7280)



ALL PILES AT BENT 2 ARE FULLY ENCASED IN CONCRETE, NOT VISIBLE (PHOTO # 7283)



PILE 4 AT BENT 2 ENCASEMENT IS SCALING WITH EXPOSED AGGREGATE, ALL PILES ARE SIMILAR (PHOTO # 7287)



Bent 2 Cap : 1 Feet of Delamination/Spall/Patched Area: Spall greater than 1 inch deep or greater than 6 inches in diameter. Patched area that is unsound or showing distress. Condition does not warrant structural Review SPALL 11" WIDE X 3" HIGH X 6" DEEP ON SPAN 2 FACE OVER PILE 6



PILE 8 AT BENT 2 HAS A 1/8" CRACK IN CONCRETE ENCASEMENT (PHOTO # 7291)



GUARDRAIL END TERMINAL AT SOUTHWEST CORNER, SIMILAR AT NORTHWEST CORNER



GUARDRAIL POST SPACINGS AT MID PORTION IN SOUTHWEST CORNER, SIMILAR AT NORTHWEST CORNER



LOOKING EAST (SAM POTTS HIGHWAY)



GUARDRAIL POST SPACINGS AT BRIDGE IN SOUTHWEST CORNER, SIMILAR AT NORTHWEST CORNER



GUARDRAIL CONNECTION AT SOUTHWEST CORNER, SIMILAR AT NORTHWEST CORNER



DOWNSTREAM SOUTH



UPSTREAM NORTH



LOOKING WEST, OFF BRIDGE



LOOKING EAST, OFF BRIDGE



LOOKING WEST



SOUTH PROFILE



ABUTMENT 1



SOUTH END OF BENT 1 CAP



BENT 1



NORTH PROFILE



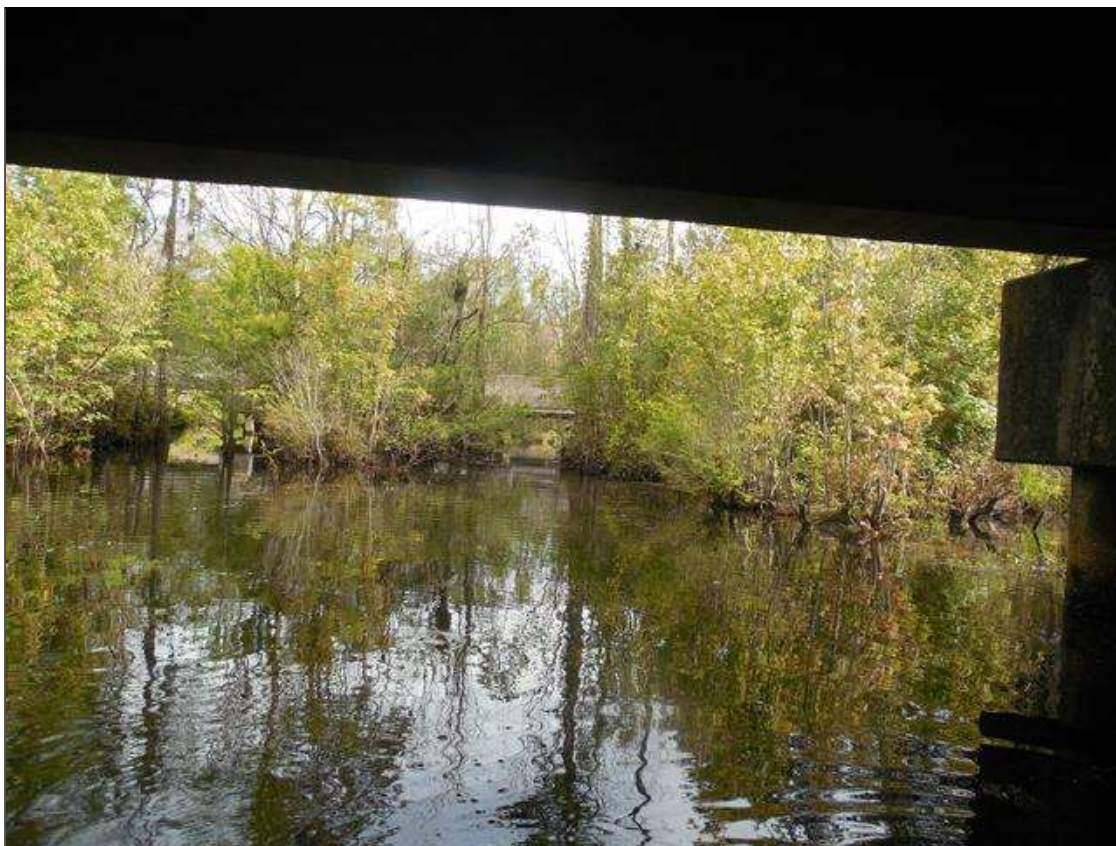
BENT 2



SUPERSTRUCTURE



DOWNSTREAM SOUTH



UPSTREAM NORTH



NO BEARINGS ARE VISIBLE (PHOTO # 7289)



ABUTMENT 2

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

Update Date: 12/01/2015

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	230068		SUFFICIENCY RATING =		84.52	
(8) STRUCTURE NUMBER(FEDERAL)		00000000470068		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31002140					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3		CLASSIFICATION			CODE
(3) COUNTY CODE 47 (4) PLACE CODE		0		(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - GREEN SWAMP				(104)HIGHWAY SYSTEM	Is not on NHS		0
(7) FACILITY CARRIED NC214				(26) FUNCTIONAL CLASS -	Major Collector		07
(9) LOCATION 0.7 MI E JCT SR 1757				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 34° 19' 19.17" (17)LONG 78° 28' 9.34"				(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -			
(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			
TYPE -	CODE	000		(58) DECK			5
(45) NUMBER OF SPANS IN MAIN UNIT		3		(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			
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD	HS 15		3
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD -	Load Factor		1
				(64) OPERATING RATING -	HS-36		65
(27) YEAR BUILT		1922		(65) INVENTORY RATING METHOD -	Load Factor		1
(106)YEAR RECONSTRUCTED		1950		(66) INVENTORY RATING -	HS-22		39
(42) TYPE OF SERVICE : ON - Highway				(70) BRIDGE POSTING -	No Posting Required		5
UNDER - Waterway	CODE	15		(41) STRUCTURE OPEN, POSTED ,OR CLOSED			A
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		DESCRIPTION -	Open, No Restriction		
(29) AVERAGE DAILY TRAFFIC		2000		APPRAISAL			
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT		14%		(67) STRUCTURAL EVALUATION			5
(19) BYPASS OR DETOUR LENGTH		14 MI		(68) DECK GEOMETRY			5
GEOMETRIC DATA				(69) UNDERCLEARANCES,VERTI & HORIZ			N
(48) LENGTH OF MAXIMUM SPAN		23 FT		(71) WATERWAY ADEQUACY			7
(49) STRUCTURE LENGTH		74 FT		(72) APPROACH ROADWAY ALIGNMENT			8
(50)CURB OR SIDEWALK: LEFT 1.165 FT RIGHT 1.165 FT				(36) TRAFFIC SAFETY FEATURES			0111
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		33.5 FT		(113)SCOUR CRITICAL BRIDGES			8
(52) DECK WIDTH OUT TO OUT		38 FT		PROPOSED IMPROVEMENTS			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		30 FT		(75) TYPE OF WORK -		CODE	
(33) BRIDGE MEDIAN - No Median	CODE	0		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW 0° (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		33.5 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 4000 (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		05/06/2015	
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 -	YES 48Mo	B)	03/23/2015
(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

Update Date: 12/01/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
COLUMBUS	6	3	230068	74	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
NC214	GREEN SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.7 MI E JCT SR 1757		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
07	FA	NFA	2000 2013	LT 141 RT 141

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1922	SHPWC	326	F-170(4)	HS 15

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
1950	DBM	3292	TAN	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		10 FT		2		FT

SUPERSTRUCTURE :	RCDG
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SUBSTRUCTURE :	EBT1&IBTS:RC CAPS/TIMBER PILES(EBT2),RC ABUT
----------------	--

SPANS :	3@24'6
---------	--------

BEAMS OR GIRDERS :	6 LNS.RC DECK GIRDERS @ VAR.CTS.
--------------------	----------------------------------

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7RC/4.5 AWS		38 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
33.5 FT	35.83 FT	LT 1.165 FT RT 1.165 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-22	HS-36	RCDG - Ext	SV	TTST	DATE

SYSTEM :	GREEN LINE ROUTE :
Primary N.C. Route	Y

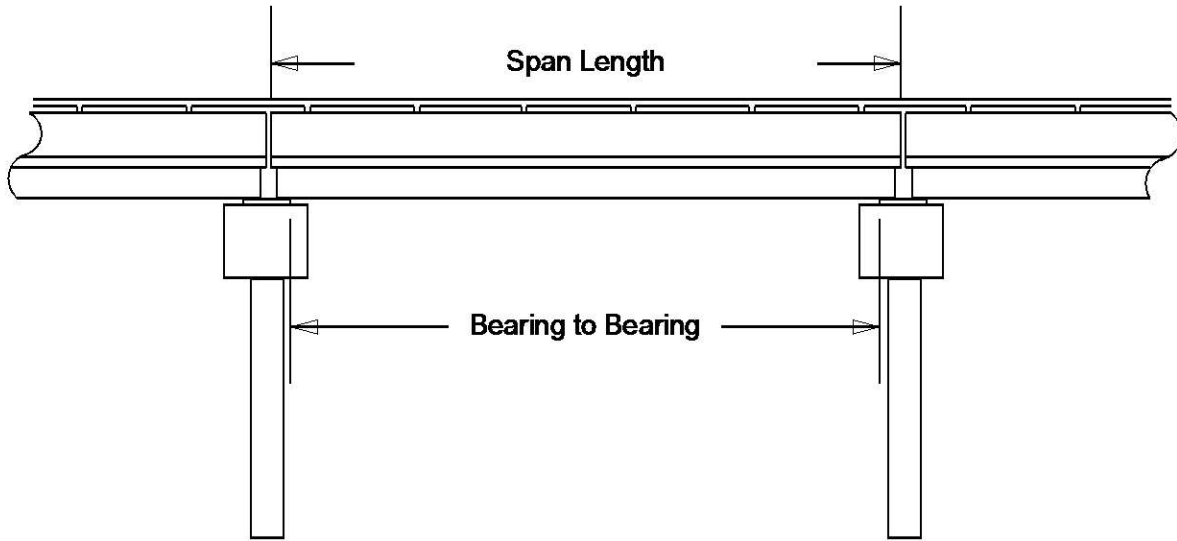
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: COLUMBUS Structure No: 230068 Date: Inspected By: RLK



Span No	Span Length	Bearing to Bearing	Comments
1	24.5 FT.	21.917 FT.	NBIS 67.417 FT.
2	24.5 FT.	23.417 FT.	
3	24.5 FT.	21.917 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 230068 County: COLUMBUS Date: _____ By: RLK

Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 4 Location of Highwater Mark: ON GIRDERS

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8	TOP OF RETAINING WALL			
1	4.9	Top of Cap			
1.1	10	GROUND AT CAP	1.1	12.8	BED AT CAP
10	11.8				
10.3	10.9	WSWE (SOUTH)			
15	12.2				
25	12.6				
28.3	12.5	BENT 1	28.3	13	BENT 1
35	12.2				
40	12.4				
52.8	11.9	BENT 2	52.8	12.8	BENT 2
59.8	11.1	WSWE			
76.1	7.4	GROUND AT CAP	76.1	8.1	GROUND AT CAP
76.2	4.9	Top of Cap			
76.3	2.8	TOP OF RETAINING WALL			

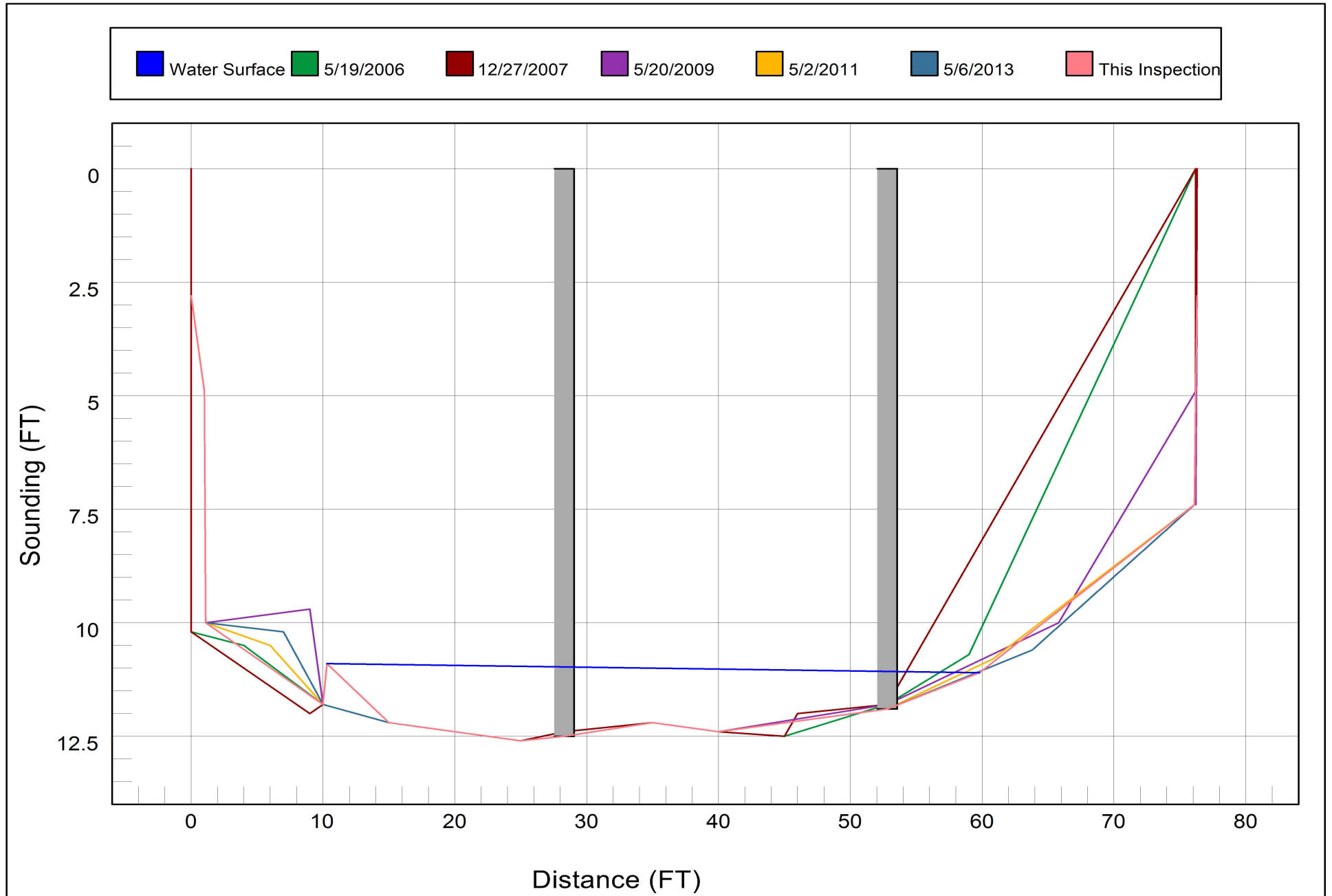
Bridge: 230068

County COLUMBUS

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

NC 214 (SAM POTTS HIGHWAY)



CLEAR GUARDRAIL = 33' 6" (33.5 FT.)

Roadway	21.167ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6.75ft Wide	3.417ft Paved	3.333ft Unpaved
Right Shoulder	5.833ft Wide	5.833ft Paved	
Left Guardrail	6.75ft from road		
Right Guardrail	5.833ft from road		

MEASUREMENTS REVISED BY RLK 5/6/15

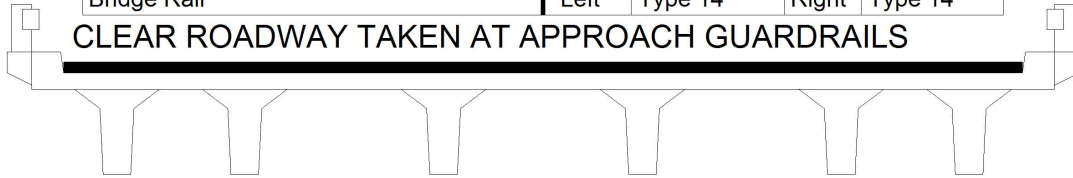
CHANGED CLEAR GUARDRAIL MEASUREMENT 5/6/15

Title APPROACH ROADWAY		Description LOOKING EAST	
Bridge No: 230068	Drawn By: RLK	Date: 5/06/2013	File Name: S0290000007

Bridge Inspection Field Sketch

Deck Width/Out to Out	38.0ft	Between Rails	35.83ft
Clear Roadway	33.5 ft	Wearing Surface	.375ft
Median Width		Median Height	
Curb Height		Left .75ft	Right .75ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left 1.0ft	Right 1.0ft
Top of Rail to Deck/Wearing Surface		Left 2.583ft	Right 2.583ft
Bridge Rail		Left Type 14	Right Type 14

CLEAR ROADWAY TAKEN AT APPROACH GUARDRAILS



Measurements for Span #	1	SPANS 2 AND 3 SIMILAR	
Deck Thickness	.583	Left Overhang	4 FT.
Top of Rail to Bottom of Beam	6.0	Right Overhang	4 FT.

Beam Number	Beam Type	Spacing	Comments
1	RC Deck Girder	4.5ft	GIRDERS 1 AND 6 = 1'-3"W x 1'-8"H
2	RC Deck Girder	7.0ft	GIRDERS 2 THRU 5 = 1'-4"W x 2'-8"H
3	RC Deck Girder	7.0ft	
4	RC Deck Girder	7.0ft	
5	RC Deck Girder	4.5ft	
6	RC Deck Girder	ft	

MEASUREMENTS VERIFIED BY RLK 5/2/11

MEASUREMENTS VERIFIED BY RLK 5/6/13

MEASUREMENTS REVISED BY RLK 5/6/15

CHANGED OUT TO OUT AND DECK OVERHANG MEASUREMENTS, TAKEN AT EXTERIOR OF R.C.RAILS

CHANGED CLEAR ROADWAY DUE TO APPROACH GUARDRAILS NOT ATTACHED AT SPACERS 5/6/15

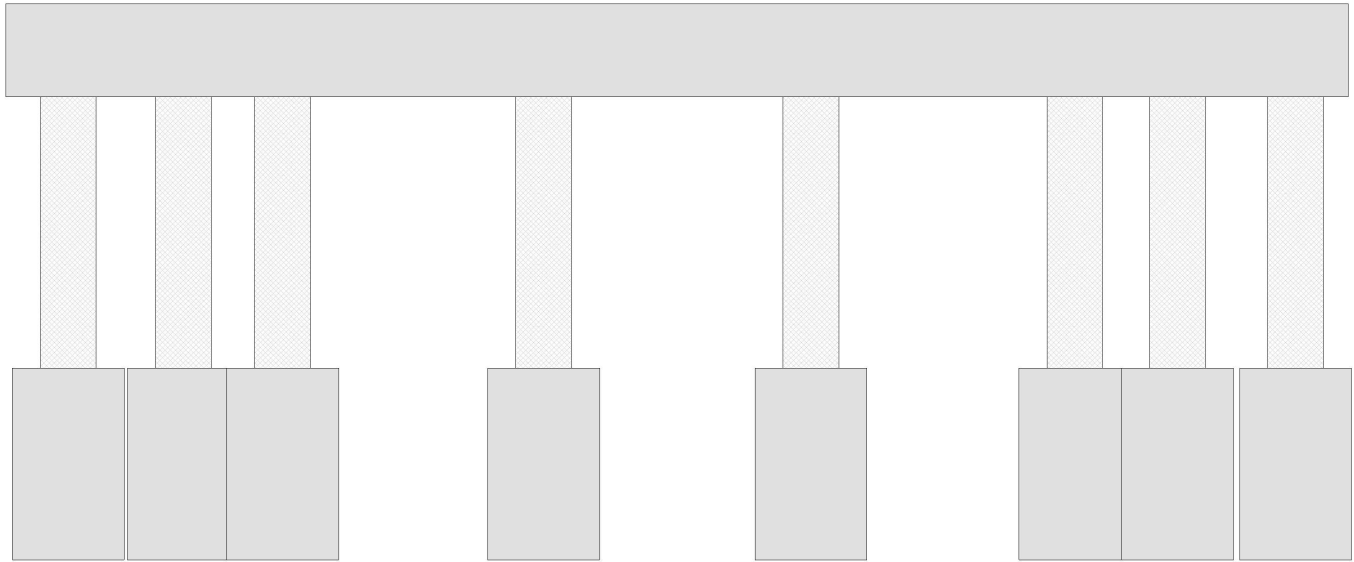
Title SUPERSTRUCTURE		Description SIMILAR SECTION	
Bridge No: 230068	Drawn By: ZEL	Date: 12/27/2007	File Name: S0290000040

Bridge Inspection Field Sketch

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Title		Description	
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Bridge No: 230068	Drawn By: ZEL	Date: 12/27/2007	File Name: S0290000041

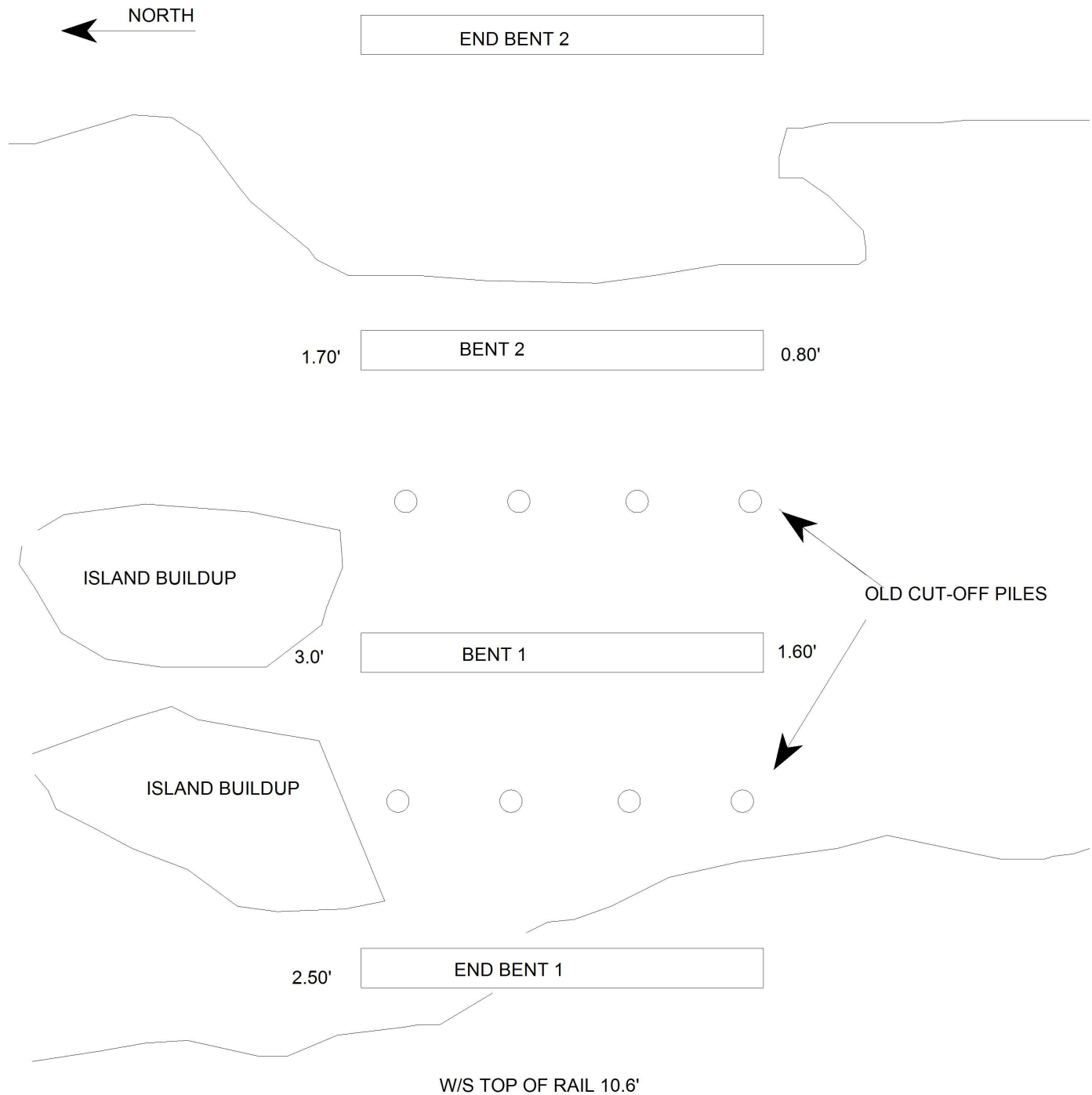
Bridge Inspection Field Sketch



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.				
36.0 ft.	2.5 ft.	2.5 ft.	1.67 ft.	1.4167 ft.	3.0 ft.	3.0 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	Timber	3.083 ft.	1.5 ft.				No	No	No	Yes
2	Timber	2.67 ft.	1.5 ft.				No	No	No	Yes
3	Timber	7.0 ft.	1.5 ft.				No	No	No	Yes
4	Timber	7.167 ft.	1.5 ft.				No	No	No	Yes
5	Timber	7.083 ft.	1.5 ft.				No	No	No	Yes
6	Timber	2.75 ft.	1.5 ft.				No	No	No	Yes
7	Timber	3.167 ft.	1.5 ft.				No	No	No	Yes
8	Timber		1.5 ft.				No	No	No	Yes
MEASUREMENTS VERIFIED BY RLK 5/2/11						ABUTMENTS FULL HEIGHT RC WITH RC WINGWALLS				
MEASUREMENTS VERIFIED BY RLK 5/6/13						TIMBER PILES CONCRETE ENCASED CAP TO M/L				
MEASUREMENTS VERIFIED BY RLK 5/6/15										
Bent/Abutment #: 1						Similar Bents:				

Title		Description	
SUBSTRUCTURE		SIMILAR NTERIOR BENT	
Bridge No: 230068	Drawn By: ZEL	Date: 12/27/2007	File Name: S0290000042

Bridge Inspection Field Sketch



Title

PLAN VIEW

Description

TOP VIEW

Bridge No: 230068

Drawn By: ZEL

Date: 12/27/2007

File Name: S0178000369