



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY COLUMBUS BRIDGE NUMBER 230068 INSPECTION CYCLE 2 YRS
ROUTE NC214 ACROSS GREEN SWAMP M.P. 0

LOCATION 0.7 MI E JCT SR 1757

SUPERSTRUCTURE RCDG

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

SPANS 3@24'6

LONGITUDE 78° 28' 93.49"

LATITUDE 34° 19' 19.17"

INSPECTION DATE 05/06/2013

PRESENT CONDITION FAIR

PRESENT POSTING Not Posted

PROPOSED POSTING

OTHER SIGNS PRESENT NONE



LOOKING EAST (SAM POTTS HIGHWAY)

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>No</u>

SIGN NOTICE ISSUED FOR	NUMBERED REQUIRED
<u>No</u> WEIGHT LIMIT	
<u>No</u> DELINEATORS	
<u>No</u> NARROW BRIDGE	
<u>No</u> ONE LANE BRIDGE	
<u>No</u> LOW CLEARANCE	

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

Run Date: 06/07/2013

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	230068		SUFFICIENCY RATING =		34.17	
(8) STRUCTURE NUMBER(FEDERAL)		00000000470068		STATUS =	Structurally 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' 93.49"				(102)DIRECTION OF TRAFFIC - 2-way Traffic		2	
(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		5	
(45) NUMBER OF SPANS IN MAIN UNIT		3		(59) SUPERSTRUCTURE		5	
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE		4	
(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 15		3	
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD - Load Factor		1	
				(64) OPERATING RATING - HS-1		1	
(27) YEAR BUILT		1922		(65) INVENTORY RATING METHOD - Load Factor		1	
(106)YEAR RECONSTRUCTED		1950		(66) INVENTORY RATING - HS-1		1	
(42) TYPE OF SERVICE : ON - Highway				(70) BRIDGE POSTING - No Posting Required		5	
UNDER - Waterway	CODE	15		(41) STRUCTURE OPEN, POSTED ,OR CLOSED		D	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		DESCRIPTION - Open Temporary Shoring			
(29) AVERAGE DAILY TRAFFIC		1300		APPRAISAL		CODE	
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT		14%		(67) STRUCTURAL EVALUATION		3	
(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 FT RIGHT		1 FT		(36) TRAFFIC SAFETY FEATURES		0111	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		33.83 FT		(113)SCOUR CRITICAL BRIDGES		8	
(52) DECK WIDTH OUT TO OUT		36 FT		PROPOSED IMPROVEMENTS		CODE	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		30 FT		(75) TYPE OF WORK -			
(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		33.83 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 2600 (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		05/06/2013	
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)	03/22/2011
(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: 06/07/2013

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	1300 2012	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
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SPANS :	3@24'6
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BEAMS OR GIRDERS :	6 LNS.RC DECK GIRDERS @ VAR.CTS.
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7RC/4.5 AWS		36 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
33.83 FT	35.83 FT	LT 1 FT RT 1 FT

VERT.CL.OVER :
999.9 FT

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

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection

BRIDGE NO. 230068

COUNTY COLUMBUS

ROUTE NC214

OVER GREEN SWAMP

STRUCTURE TYPE RCDG

ROUTE ORIENTATION W - E

SPANS 3@24'6"

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES				
1. WEARING SURFACE			F	45. CHANNEL & CHANNEL PROT.			
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58				a. WATERWAY			
a. CONCRETE			3	F	b. ALIGNMENT		
b. TIMBER					c. SCOUR		
c. STEEL PLANK					d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
d. OPEN GRID					50. APPROACH ROADWAY CONDITION		
3. RAILING					51. APPROACH SLABS		
a. CONCRETE				G	52. PAINT SYSTEM CODE		
b. TIMBER					53. UTILITIES		
c. ALUMINUM					54. RESPONSE TO LIVE LOAD		
d. STEEL					55. ESTIMATED REMAINING LIFE		
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS				G			
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)					60. REGULATORY SIGN NOTICE ISSUED		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH					61. PROMPT-ACTION NOTICE ISSUED		
a. STEEL PL OR FINGER					62. PRESENTLY POSTED		
b. MISC PREFAB					63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
c. COMPRESSION SEAL					64. TOTAL SNOOPER INSP. TIME (HRS)		
d. STANDARD JOINTS			2	F	65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		
e. OPEN JOINTS							
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)				G			
					70. SI&A GENERAL CONDITION RATINGS		
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59					a. DECK ITEM 58		
10. LONGITUDINAL BEAMS OR GIRDERS				F	b. SUPERSTRUCTURE ITEM 59		
11. LONGITUDINAL JOIST OR STRINGERS					c. SUBSTRUCTURE ITEM 60		
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				G	d. CHANNEL & CHANNEL PROT. ITEM 61		
13. END DIAP'S, CURTAIN WALLS, & CONN'S				F			
14. FLOOR BEAMS AND CONNECTIONS					71. SI&A FIELD APPRAISAL RATINGS		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)					a. WATERWAY ADAQUACY		
16. DRAINAGE SYSTEM (ON STRUCTURE)				G	b. APPR. RDWY. ALIGNMENT		
17. MOVABLE SPAN MACHINERY							
					72. FIELD SCOUR EVALUATION		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)							
35. TIM SUB STR.					USE OF INSP. ACCESSIBILITY EQUIPMENT		
a. ABUT. & INT. BENT CAPS & RISERS					SNOOPER (CODE S, 4, OR N)		
b. PILES, POST, SILLS, & BRACING				F	HRS		
c. BULKHEADS, WING'S, & TIE BACKS					LADDER		
36. CONC SUB STR.					BUCKET TRUCK		
a. ABUT. & INT. BENT CAPS				F	BOAT		
b. ABUT. & BENT COL'S BREASTWALLS				G	OTHER		
c. ABUT. & INT. BENT PILES							
d. BACKWALLS, WING'S, RETAIN. WALLS				F			
e. ABUT. & BENT FOOTINGS & SILLS							
37. STEEL SUB STR.					SPECIAL INSPECTION REQUESTED FOR		
a. ABUT. & INT. BENT CAPS & RISERS							
b. PILES, BRACING, AND BULKHEADS							
38. FOUNDATION PILES TYPE MATERIAL					NOTE		
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)							
40. FENDER SYSTEMS					80. INSPECTED BY: RD Hout		
41. DRIFT				G	81. REVIEWED BY:		

**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 :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	<u>T</u>	<u>TSC</u>
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	<u>4</u>	<u>TSC</u>
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

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

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
1	F	(ASPHALT WEARING SURFACE) THERE ARE SEALED LONGITUDINAL CRACKS IN SPAN 1 WEST BOUND LANE. (PHOTO) THERE ARE 1/8" WIDE LONGITUDINAL CRACKS IN SPAN 1 ASPHALT WEARING SURFACE , IN BOTH LANES. ALL SPANS ARE SIMILAR. (PHOTO) THERE ARE LONGITUDINAL CRACKS IN SPAN 1 EAST BOUND LANE. (PHOTO) THE TRANSVERSE CRACK OVER BENT 1 IS SEALED. (PHOTO) THERE ARE SEALED CRACKS AND 1/16" LONGITUDINAL CRACKS IN SPANS 2 AND 3. (PHOTO) THE TRANSVERSE CRACK OVER BENT 2 JOINT IS SEALED. (PHOTO) THERE IS 1/8" MAP CRACKING IN SPAN 3 EAST BOUND LANE. (PHOTO) THERE ARE 1/16" TO 1/8" LONGITUDINAL CRACKS IN SPANS 2 AND 3 IN THE EAST BOUND LANE. (PHOTO)	
2a	F	(RC DECK) THE DECK UNDERSIDE HAS AREAS OF EFFLORESCENCE. THERE IS A HAIRLINE DIAGONAL CRACK IN DECK UNDERSIDE AT SPAN 1, BAY 5 AT ABUTMENT 1. (PHOTO)	
3a	G	(RC RAILS) THERE IS A HAIRLINE TRANSVERSE CRACK IN RIGHT RAIL BAR IN SPAN 1 AT POST 3. (PHOTO)	
4	G	(RC CURBS) THERE IS A HAIRLINE TRANSVERSE AND VERTICAL CRACK IN SPAN 3, LEFT CURB. THERE IS A CRACKED APPROACH CURB AT SOUTHWEST AND NORTHWEST CORNERS. (PHOTO) THE LEFT CURB IN SPAN 1 IS CRACKED UNDER GUARDRAIL. (PHOTO)	
6d	F	(STANDARD JOINTS) THE TRANSVERSE CRACK OVER BENT 1 IS SEALED. (PHOTO) THE TRANSVERSE CRACK OVER BENT 2 JOINT IS SEALED. (PHOTO)	
7	G	(DECK DEBRIS) THERE IS SCATTERED DEBRIS AND VEGETATION ALONG BOTH CURBS. (PHOTO)	
10	F	(RC DECK GIRDERS) GIRDER 6 AT SPAN 3, HAS A HAIRLINE VERTICAL CRACK AT PIER 2 NEAR THE BEARING AREA.	
10A	NO	(CURVED GIRDERS) NO CURVED GIRDERS.	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
13	F	(END DIAPHRAGMS) THE END DIAPHRAGMS HAVE RANDOM HAIRLINE CRACKS THROUGHOUT.	
		THE ABUTMENT 2 CURTAIN WALL HAS A HAIRLINE VERTICAL CRACK IN BAY 3. (PHOTO)	
35b	F	(TIMBER PILES) CONCRETE ENCASED FROM MUDLINE TO CAPS, NOT VISIBLE. SEE DIVERS UNDERWATER INSPECTION REPORT DATED 3/22/2011.	
36a	F	(RC ABUTS, CAPS) THERE IS A HAIRLINE VERTICAL CRACK IN ABUTMENT 2.	
36b	G	(BREAST WALLS) THERE IS EXPOSED AGGREGATE IN ABUTMENT 1 BREASTWALL. THIS IS SIMILAR AT ABUTMENT 2. (PHOTO)	
		THERE IS A 1/16" DIAGONAL CRACK THAT EXTENDS FROM THE NORTHWEST WINGWALL INTO ABUTMENT 1 BREASTWALL.	
36d	F	(CONC. RETAINING WALLS) THERE IS A 1/16" DIAGONAL CRACK IN WINGWALL AT SOUTHWEST CORNER. (PHOTO)	
		THE NORTHEAST CORNER EXTERIOR CURTAIN WALL IS SPALLED 6" HIGH X 5" WIDE X UP TO 4" DEEP. (PHOTO)	
45a	G	(WATERWAY) THE CUTOFF PILES ARE CATCHING SOME DEBRIS BUT WATERWAY REMAINS ADEQUATE.	
		SEE DIVERS UNDERWATER INSPECTION REPORT DATED 3/22/2011.	
45b	G	(CHANNEL ALIGNMENT) THE CURRENT FLOW IS DISTORTED DUE TO OBSTRUCTED UPSTREAM WATERWAY.	
		THE FLOW DIRECTED ALONG WEST SHORELINE AND END BENT 1 WINGWALLS.	
45c	G	(SCOUR) SEE SCOUR REPORT DATED 11/01/2004.	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
50	F	(APPROACH ROADWAY) THERE IS A DAMAGED GUARDRAIL END TERMINAL AT SOUTHWEST CORNER. (PHOTO) THERE IS A DAMAGED GUARDRAIL SECTION IN THE NORTHWEST CORNER. (PHOTO) THE APPROACH DRAIN IS BLOCKED BY DEBRIS IN THE SOUTHWEST CORNER. (PHOTO) THERE ARE LOOSE GUARDRAIL CONNECTIONS AT SOUTHWEST CORNER. THIS IS SIMILAR AT NORTHWEST CORNER. (PHOTO) THE WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED 3" AT SOUTHWEST CORNER. (PHOTO) THERE ARE SEALED CRACKS IN THE WEST APPROACH ASPHALT WEARING SURFACE. (PHOTO) THE EAST APPROACH RIGHT SHOULDER IS SETTLED 5". (PHOTO) THERE ARE SEALED CRACKS IN THE EAST APPROACH ASPHALT WEARING SURFACE. (PHOTO)	
73f	YES	(OTHER EQUIPMENT) BOOTS AND SNAKE LEGGINS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 230068

County COLUMBUS

Date: 05/06/2013

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
2816	Asphalt Surface Repair or Replacement	SY	2	EAST APPROACH RIGHT SHOULDER IS SETTLED 5"	
2816	Asphalt Surface Repair or Replacement	SY	2	WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED 3" AT SOUTHWEST CORNER	
2816	Asphalt Surface Repair or Replacement	SY	4	1/8" WIDE LONGITUDINAL CRACKS IN SPAN 1 ASPHALT WEARING SURFACE , IN BOTH LANES, ALL SPANS ARE SIMILAR	
3120	Repair/Maintain Barriers	LF	2	DAMAGED GUARDRAIL END TERMINAL AT SOUTHWEST CORNER	
3120	Repair/Maintain Barriers	LF	20	DAMAGED GUARDRAIL SECTION IN THE NORTHWEST CORNER	
3120	Repair/Maintain Barriers	LF	4	LOOSE GUARDRAIL CONNECTIONS AT SOUTHWEST CORNER, SIMILAR AT NORTHWEST CORNER	
3332	Maint Drainage System - Bridge	LF	10	APPROACH DRAIN BLOCKED BY DEBRIS IN THE SOUTHWEST CORNER	
3348	Maintain Concrete Substructure Components	LF	1	NORTHEAST CORNER EXTERIOR CURTAIN WALL SPALLED 6" HIGH X 5" WIDE X UP TO 4" DEEP	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



DAMAGED GUARDRAIL END TERMINAL AT SOUTHWEST CORNER



DAMAGED GUARDRAIL SECTION IN THE NORTHWEST CORNER



APPROACH DRAIN BLOCKED BY DEBRIS IN THE SOUTHWEST CORNER



LOOSE GUARDRAIL CONNECTIONS AT SOUTHWEST CORNER, SIMILAR AT NORTHWEST CORNER



WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED 3" AT SOUTHWEST CORNER



SEALED CRACKING IN WEST APPROACH ASPHALT WEARING SURFACE



SEALED LONGITUDINAL CRACKS IN SPAN 1, WEST BOUND LANE



1/8" WIDE LONGITUDINAL CRACKS IN SPAN 1 ASPHALT WEARING SURFACE, IN BOTH LANES, ALL SPANS ARE SIMILAR



LONGITUDINAL CRACKS IN SPAN 1 EAST BOUND LANE



SEALED TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT



SEALED LONGITUDINAL CRACKS IN SPANS 2 AND 3



SEALED TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 2 JOINT



1/16" TO 1/8" LONGITUDINAL CRACKS IN SPANS 2 AND 3 IN THE EAST BOUND LANE



1/8" MAP CRACKING IN SPAN 3 EAST BOUND LANE



HAIRLINE TRANSVERSE CRACK IN RIGHT RAIL BAR IN SPAN 1 AT POST 3



SOUTHWEST CORNER APPROACH CURB CRACKED, SIMILAR AT NORTHWEST CORNER



LEFT CURB HAS HAIRLINE VERTICAL CRACKS IN SPAN 1 UNDER GUARDRAIL



SCATTERED DEBRIS ALONG BOTH CURBS



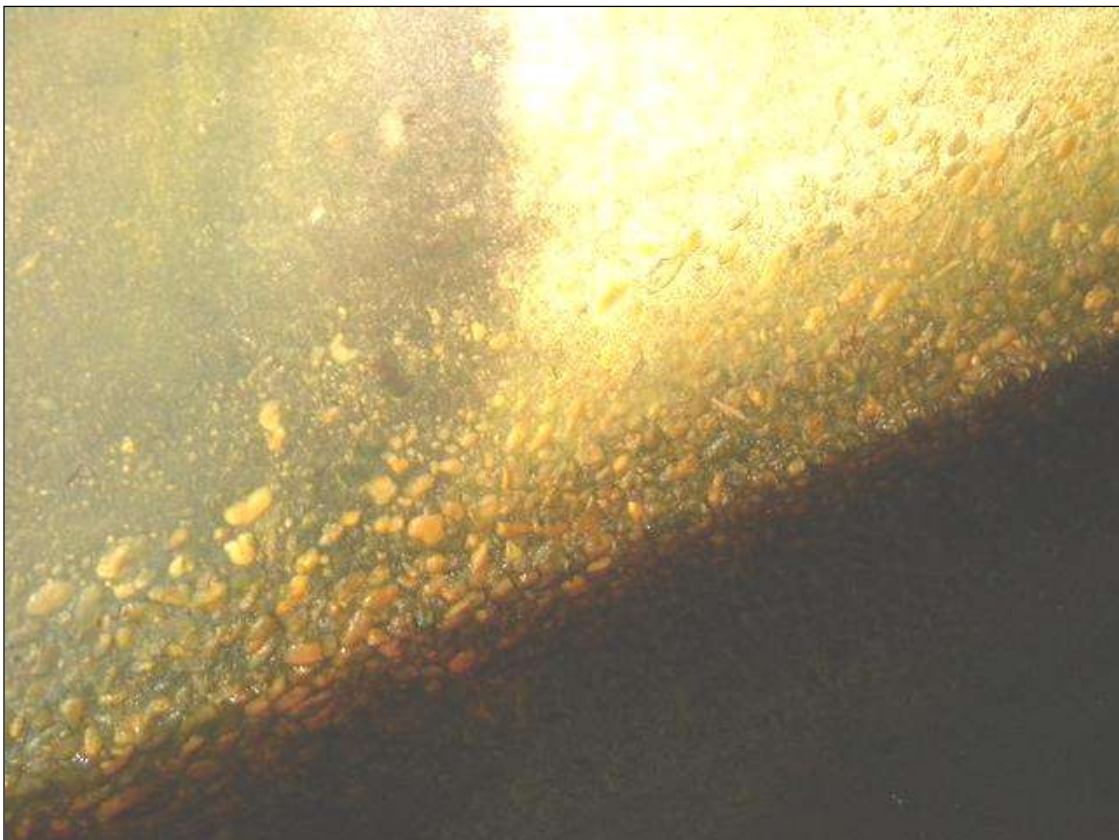
EAST APPROACH RIGHT SHOULDER IS SETTLED 5"



SEALED CRACKING IN THE EAST APPROACH ASPHALT WEARING SURFACE



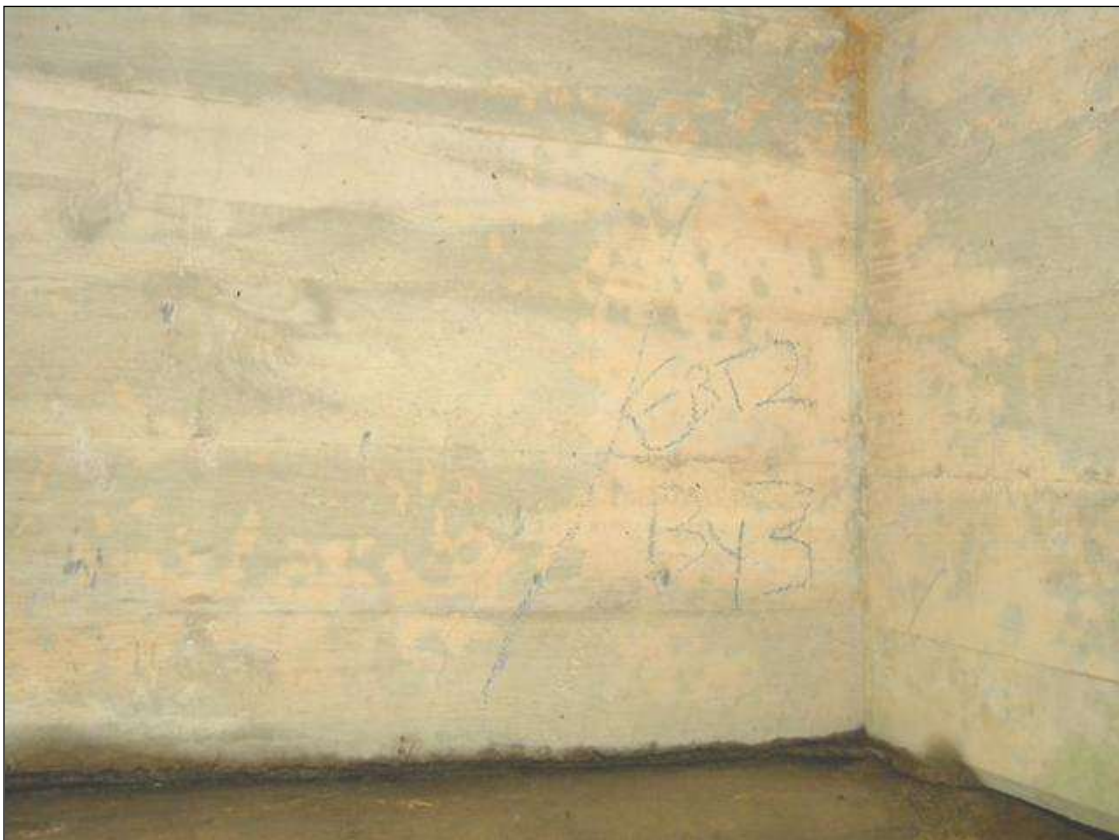
HAIRLINE DIAGONAL CRACK IN SPAN 1 UNDERSIDE IN BAY 5 AT ABUTMENT 1



EXPOSED AGGREGATE IN ABUTMENT 1 BREASTWALL, SIMILAR AT ABUTMENT 2



1/16" DIAGONAL CRACK IN WINGWALL AT SOUTHWEST CORNER



HAIRLINE VERTICAL CRACK IN ABUTMENT 2 CURTAIN WALL AT BAY 3

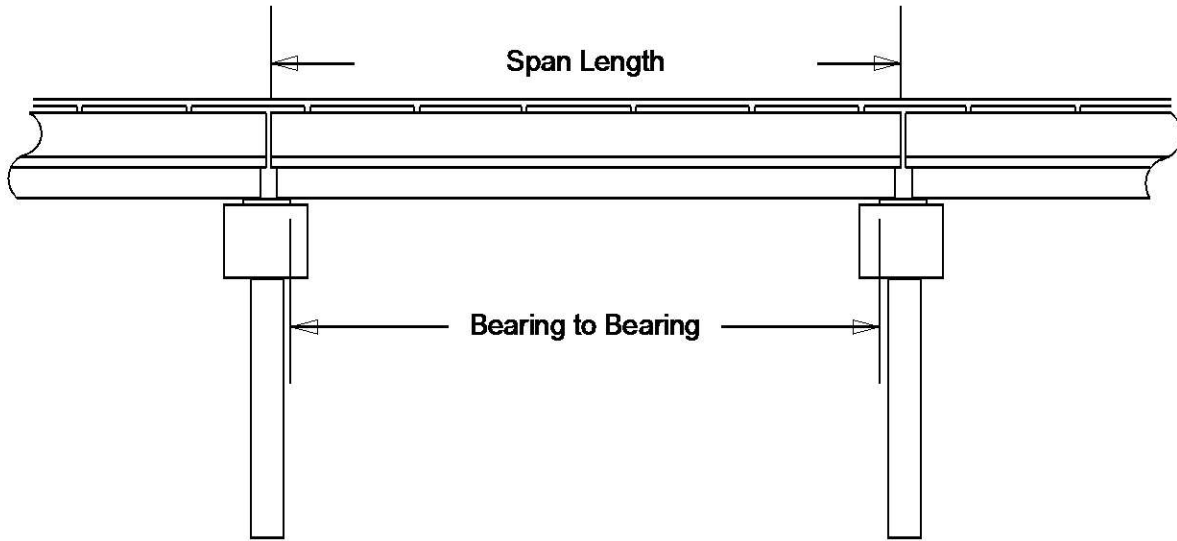


NORTHEAST CORNER EXTERIOR CURTAIN WALL SPALLED 6" HIGH X 5" WIDE X UP TO 4" DEEP

Structure Data Worksheet

Spans

County: COLUMBUS Structure No: 230068 Date: 05/06/2013 Inspected By: RDH



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: 05/06/2013 By: RDH

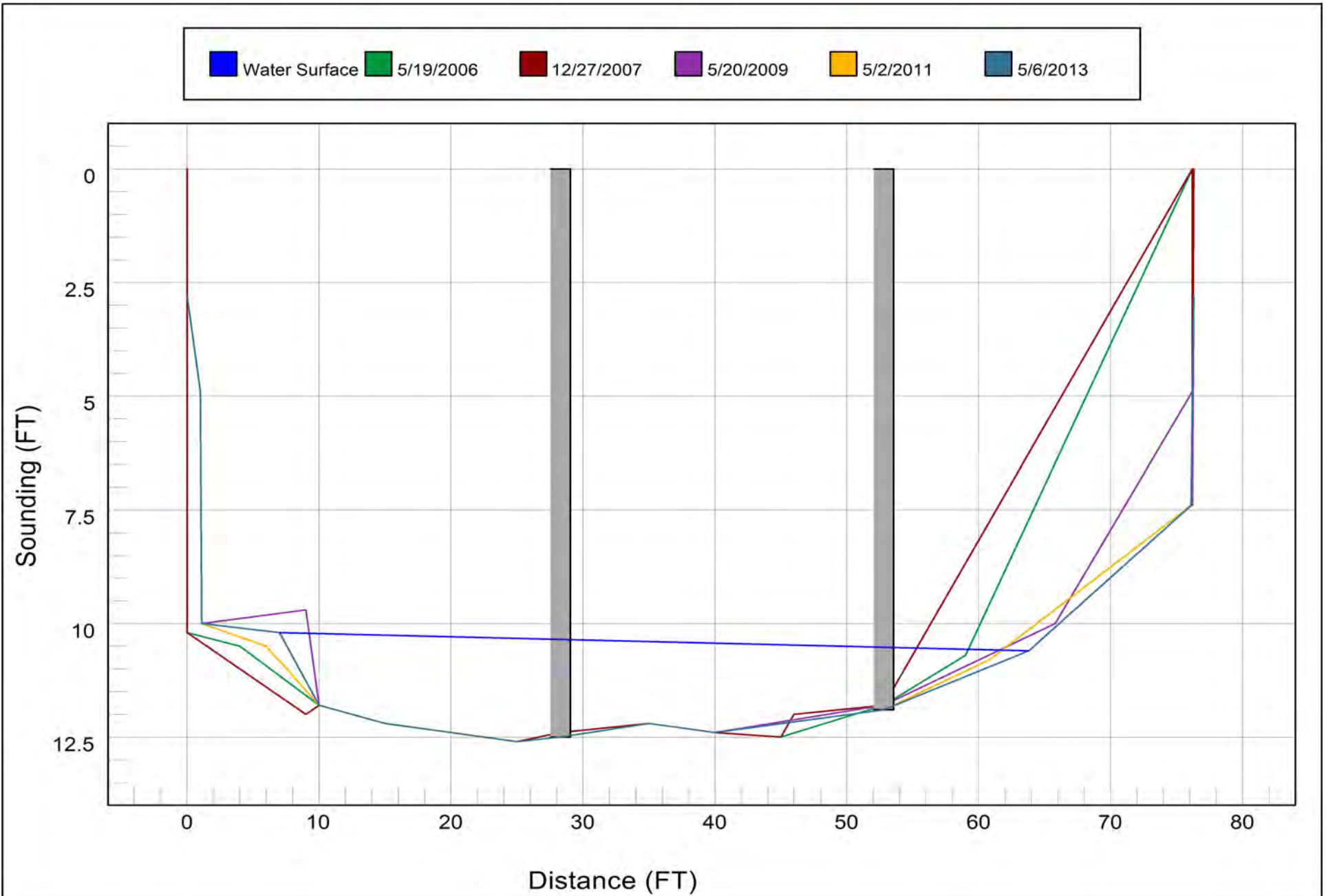
Record sounding from top of rail. Other location if needed: TOP OF RAIL

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
7	10.2	WSWE (SOUTH)			
10	11.8				
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
63.8	10.6	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			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

NC 214 (SAM POTTS HIGHWAY)



CLEAR GUARDRAIL = 33' 9" (33.75')

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		

Title

APPROACH ROADWAY

Description

LOOKING EAST

Bridge No: 230068

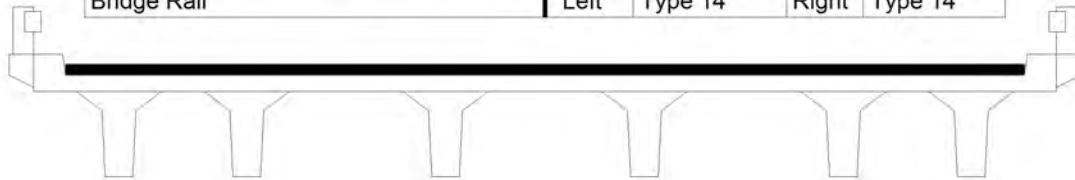
Drawn By: RLK

Date: 5/06/2013

File Name: S0290000007

Bridge Inspection Field Sketch

Deck Width/Out to Out	36.0ft	Between Rails	35.83ft
Clear Roadway	33.83ft	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



Measurements for Span #	1	SPANS 2 AND 3 SIMILAR	
Deck Thickness	.583	Left Overhang	3.0
Top of Rail to Bottom of Beam	6.0	Right Overhang	3.0

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

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

Bridge No: 230068

Drawn By: ZEL

Date: 12/27/2007

File Name: S0290000040

Bridge Inspection Field Sketch

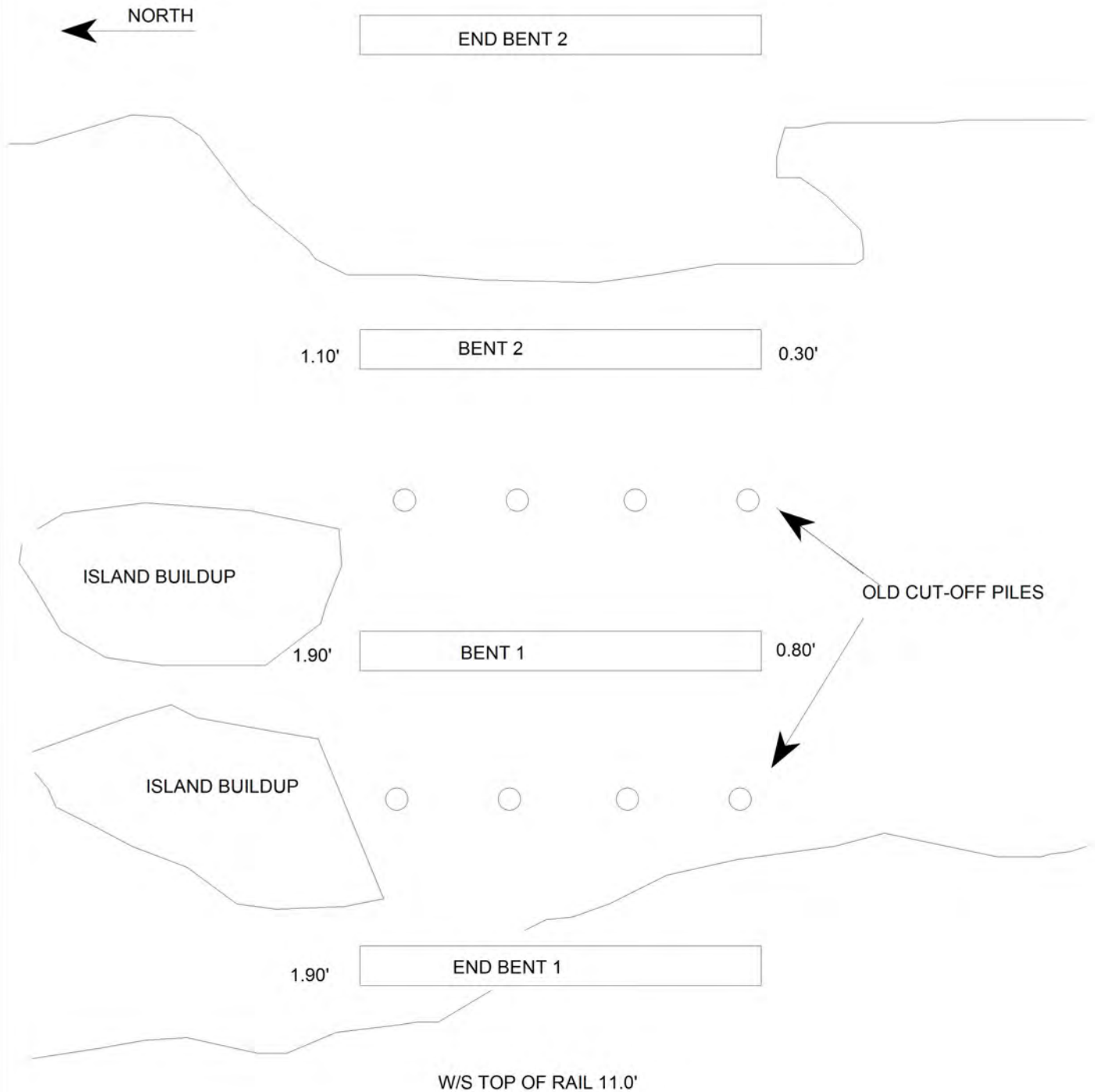
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Title		Description		
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Bridge No:	230068	Drawn By:	ZEL	Date: 12/27/2007
		File Name:	S0290000041	

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				
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



GUARDRAIL END TERMINAL AT NORTHWEST CORNER, SIMILAR AT SOUTHWEST 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, NORTHWEST CORNER SIMILAR



GUARDRAIL CONNECTION AT SOUTHWEST CORNER, NORTHWEST CORNER SIMILAR



LOOKING WEST, OFF BRIDGE



LOOKING EAST, OFF BRIDGE



UPSTREAM NORTH



DOWNSTREAM SOUTH



LOOKING WEST (SAM POTTS HIGHWAY)



SOUTH SIDE



BENT 1



ABUTMENT 1



SPAN 1 DECK UNDERSIDE, ALL SPANS ARE SIMILAR



UPSTREAM NORTH, THRU SPAN 1



DOWNSTREAM SOUTH, THRU SPAN 1



NORTH PROFILE



ABUTMENT 2



BENT 2



SOUTH END OF BENT 2 CAP