



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP REPAIRS: ENCASED PILES

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY COLUMBUS BRIDGE NUMBER 230171 INSPECTION CYCLE 2 YRS
ROUTE SR1414 ACROSS DUNN SWAMP M.P. 0

LOCATION 1.1 MI N JCT US76

SUPERSTRUCTURE REINFORCED CONCRETE DECK/I-BEAMS (STD.BMD-6-7)

SUBSTRUCTURE EBTS&IBTSRC CAP/TIMBER PILES @ 7'6 CTS.

SPANS 4 @ 18'4

LONGITUDE 78° 53' 57.88"

LATITUDE 34° 20' 33.75"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 07/11/2012

OPERATING RATING

PRESENT POSTING Not Posted

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING NORTH (BRASWELL ROAD)

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

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

Run Date: 07/27/2012

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	230171	SUFFICIENCY RATING =		27.91
(8) STRUCTURE NUMBER(FEDERAL)	00000000470171	STATUS =		Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31014140				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	3				
(3) COUNTY CODE 47	(4) PLACE CODE	0			
(6) FEATURE INTERSECTED - DUNN SWAMP					
(7) FACILITY CARRIED SR1414					
(9) LOCATION 1.1 MI N JCT US76					
(11) MILEPOINT	0				
(16) LAT 34° 20' 33.75"	(17) LONG 78° 53' 57.88"				
(98) BORDER BRIDGE STATE CODE	PCT SHARE				
(99) BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN: Steel			(112) NBIS BRIDGE SYSTEM -	YES	
TYPE - Stringer Multibeam or Girder	CODE 302	(104) HIGHWAY SYSTEM Is not on NHS		0	
(44) STRUCTURE TYPE APPR :		(26) FUNCTIONAL CLASS - Local		09	
TYPE -	CODE 000	(100) STRAHNET HIGHWAY - Not a STRAHNET Route		0	
(45) NUMBER OF SPANS IN MAIN UNIT	4	(101) PARALLEL STRUCTURE - No Parallel Structure		N	
(46) NUMBER OF APPROACH SPANS		(102) DIRECTION OF TRAFFIC - 2-way Traffic		2	
(107) DECK STRUCTURE TYPE - 1	CODE	(103) TEMPORARY STRUCTURE - Temporary Structure/Conditions		T	
(108) WEARING SURFACE / PROTECTIVE SYSTEM :		(110) DESIGNATED NATIONAL NETWORK - Not on the National Network		0	
(A) TYPE OF WEARING SURFACE -	CODE	(20) TOLL On Free Road		3	
(B) TYPE OF MEMBRANE -	CODE	(31) MAINTAIN - State Highway Agency		01	
(C) TYPE OF DECK PROTECTION -	CODE	(22) OWNER - State Highway Agency		01	
		(37) HISTORICAL SIGNIFICANCE - Not Eligible		5	
				CONDITION	
(58) DECK			5		
(59) SUPERSTRUCTURE			5		
(60) SUBSTRUCTURE			4		
(61) CHANNEL & CHANNEL PROTECTION			7		
(62) CULVERTS			N		
				LOAD RATING AND POSTING	
(31) DESIGN LOAD	Unknown		0		
(63) OPERATING RATING METHOD -	Load Factor				
(64) OPERATING RATING -	HS-1		101		
(65) INVENTORY RATING METHOD -	Load Factor				
(66) INVENTORY RATING -	HS-1		101		
(70) BRIDGE POSTING -	No Posting Required		5		
(41) STRUCTURE OPEN, POSTED ,OR CLOSED			D		
DESCRIPTION -	Open Temporary Shoring				
				APPRAISAL	
(67) STRUCTURAL EVALUATION			2		
(68) DECK GEOMETRY			5		
(69) UNDERCLEARANCES, VERTI & HORIZ			N		
(71) WATERWAY ADEQUACY			7		
(72) APPROACH ROADWAY ALIGNMENT			7		
(36) TRAFFIC SAFETY FEATURES			0000		
(113) SCOUR CRITICAL BRIDGES			U		
				PROPOSED IMPROVEMENTS	
(75) TYPE OF WORK -			CODE		
(76) LENGTH OF STRUCTURE IMPROVEMENT					
(94) BRIDGE IMPROVEMENT COST					
(95) ROADWAY IMPROVEMENT COST					
(96) TOTAL PROJECT COST					
(97) YEAR OF IMPROVEMENT COST ESTIMATE					
(114) FUTURE ADT 600	(115) YEAR FUTURE ADT		2025		
				INSPECTIONS	
(90) INSPECTION DATE			07/11/2012		
(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE		
A) FRACTURE CRIT DETAIL -	NO		A)		
B) UNDERWATER INSP -	NO		B)		
C) OTHER SPECIAL INSP	NO		C)		
SCOUR					
NAVIGATION DATA					
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0			
(111) PIER PROTECTION -	CODE				
(39) NAVIGATION VERTICAL CLEARANCE		0			
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 07/27/2012

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
COLUMBUS	6	3	230171	73	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1414	DUNN SWAMP

LOCATED :	BRIDGE NAME :	CITY :
1.1 MI N JCT US76		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	300 2007	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1955	BMU			Unknown

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

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT 14 FT		5 FT

SUPERSTRUCTURE : REINFORCED CONCRETE DECK/I-BEAMS (STD.BMD-6-7)

SUBSTRUCTURE : EBTS&IBTSRC CAP/TIMBER PILES @ 7'6 CTS.

SPANS : 4 @ 18'4

BEAMS OR GIRDERS : 11 LINES W12X27 I-BEAMS @ 2'5 CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5 RC/NO AWS		25.3 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.5 FT	LT .8 FT RT .8 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	extBM(B)	SV		08/11/1994

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 230171 COUNTY COLUMBUS ROUTE SR1414 OVER DUNN SWAMP
 STRUCTURE TYPE REINFORCED CONCRETE DECK/I-BEAMS (STD.BMD-6-7)
 ROUTE ORIENTATION S - N SPANS 4 @ 18'4

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

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		
2a	F	(RC DECK) THE TOP SURFACE IS ROUGH AND WORN. THERE IS SURFACE SCALING NOTED AT RANDOM. (PHOTOS) THERE ARE A FEW TRANSVERSE CRACKS. (PHOTOS) THERE IS 1/16" MAP CRACKING IN SPAN 1 DECK. (PHOTO) THERE IS HAIRLINE TO 1/16" MAP CRACKING IN SPAN 3 NORTH BOUND LANE. (PHOTO) SPAN 4 DECK 1/16" LONGITUDINAL CRACK IN SOUTH BOUND LANE. (PHOTO)	
3a	G	THERE IS HONEYCOMBING NOTED ON THE UNDERSIDE. (RC RAILS) THERE IS A CHIPPED AREA AT THE NORTHWEST CORNER. (PHOTO) THERE IS A LEFT RAIL SPALL WITH EXPOSED STEEL SPAN 2 AT POST 2. (PHOTO)	
4	G	THERE IS A RAIL CHIP IN THE RIGHT RAIL BETWEEN POSTS 1 AND 2 IN SPAN 2. (CONC CURBS) THE RIGHT (EAST) CURB HAS A SHALLOW HONEYCOMB IN SPAN 3. (PHOTO)	
6d	P	(STANDARD JOINTS) THERE ARE A FEW LOCATIONS ON THE UNDERSIDE THAT HAVE SIGNS OF LEAKAGE. THE TOP SEAL IS DETERIORATED, CRACKED, SETTLED, AND LEAKING AT ALL STANDARD JOINTS. (PHOTOS)	
10	G	(STEEL BEAMS) THERE ARE THREE (3/8" DIAMETER) BULLET HOLES IN BEAM 1 WEB AT SPAN 4. (PHOTO) SEE SKETCH.	
10A	NO	(CURVED GIRDERS) NO CURVED GIRDERS.	
13	G	(END DIAPHRAGMS) THERE IS A HAIRLINE VERTICAL CRACK IN THE END DIAPHRAGM AT END BENT 1 IN BAY 5. (PHOTO)	
15	F	(BEARING ASSEMBLIES) THERE IS SHALLOW PITTING AND SURFACE RUST AT A FEW LOCATIONS.	
52	F	(PAINT SYSTEM) MOST BEAMS HAVE AREAS OF PEELING, SURFACE RUST AND SHALLOW PITTING AT THE BEARING AREAS. (PHOTOS)	

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		
35b	F	(TIMBER PILES) SOFT AND SATURATED AT THE LOWER PORTION. THERE ARE A FEW PILES THAT HAVE SHALLOW DELAMINATION. THERE ARE SEVERAL PILES ENCASED IN CONCRETE. (PHOTOS) THEY ARE NOTED AT: PILES 3, AND 4 AT END BENT 1; PILE 2 AND 4 AT BENT 1; PILE 4 AT BENT 2; PILES 3, AND 4 AT BENT 3; PILE 4 AT END BENT 2;	
35c	F	THERE ARE NO CROSSBRACING AT THE INTERIOR BENTS. (TIMBER BULKHEADS AND WINGWALLS) THERE IS FILL LEAKAGE ADJACENT TO PILE 2 AT END BENT 1. (PHOTO) THE END BENT 2 BULKHEAD AT PILES 3 AND 4 HAS LEAKAGE OF FILL AND BOARDS ARE SOFT. THE END BENT 2 BULKHEAD BETWEEN PILES 1 AND 2 HAVE AREAS THAT ARE SOFT AND DECAYED. THERE IS A DECAYED EXTERIOR BULKHEAD BOARD AT THE SOUTHEAST CORNER. (PHOTO) THERE IS A NEW TURNPILE AT SOUTHEAST CORNER.	
36a	G	(RC CAPS) THE BENT 2 CAP HAS A SPALLED 6" LONG X 3 1/2" HIGH X 1 1/4" DEEP ON THE SPAN 2 FACE UNDER BAY 5. (PHOTO)	
39	F	THERE IS A SURFACE SPALL ON EAST END OF BENT 1 CAP. (PHOTO) (SLOPE PROTECTION) RIP RAP PLACED AT END BENT 2.	
41	G	(DRIFT) THERE IS DRIFT IN SPAN 3 AT BENT 2 PILE 3. (PHOTO)	
45c	G	(SCOUR) SEE SCOUR REPORT DATED 5/13/2010.	

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 ROADWAYS) THE ROADWAY HAS BEEN RESURFACED WITH ROCK AND TAR. THE SOUTH APPROACH ASPHALT WEARING SURFACE IS CRACKED AND SETTLED UP TO 1". (PHOTO) THE NORTH APPROACH ASPHALT WEARING SURFACE IS CRACKED AND SETTLED UP TO 1 1/4". (PHOTO)	
73f	YES	(OTHER EQUIPMENT) BOOTS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 230171

County COLUMBUS

Date: 07/11/2012

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	3	SOUTH APPROACH ASPHALT WEARING SURFACE SETTLED UP TO 1"	
2816	Asphalt Surface Repair or Replacement	SY	4	NORTH APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED UP TO 1 1/4"	
3310	Maintenance/Repair/Replacement of Standard Bridge Expansion Joints	LF	72	BENT 1 STANDARD JOINT MATERIAL DETERIORATED, CRACKED, AND LEAKING ALL JOINTS ARE SIMILAR	
3342	Clean and Paint Structural Steel	SF	1000	SPAN 1 UNDERSIDE WITH PAINT PEELING AND SURFACE RUST, SIMILAR IN ALL SPANS	
3346	Repair / Maintain Timber Wings & Blkhds	SF	4	END DECAYED EXTERIOR BULKHEAD BOARDS AT SOUTHEAST CORNER	
3348	Maintain Concrete Substructure Components	LF	1	BENT 2 CAP SPALLED 6" LONG X 3 1/2" HIGH X 1 1/4" DEEP ON SPAN 2 FACE UNDER BAY 5	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



SOUTH APPROACH ASPHALT WEARING SURFACE SETTLED UP TO 1"



DECK SURFACE SCALING IN SPAN 1



1/16" MAP CRACKING IN SPAN 1 DECK



BENT 1 STANDARD JOINT MATERIAL DETERIORATED, CRACKED, AND LEAKING ALL JOINTS ARE SIMILAR



SURFACE SCALING IN SPAN 2 DECK



BENT 2 STANDARD JOINT DETERIORATED, SETTLING, AND LEAKING



HAIRLINE TO 1/32" TRANSVERSE CRACKS IN SPAN 3 DECK



HAIRLINE TRANSVERSE CRACKS IN SPAN 3 SOUTH BOUND LANE



1/16" LONGITUDINAL CRACK IN SPAN 4 DECK IN THE SOUTH BOUND LANE



LEFT RAIL END POST CHIPPED AT NORTHWEST CORNER



LEFT RAIL SURFACE SPALL WITH EXPOSED REBAR AT POST 2 IN SPAN 2



RIGHT (EAST) CURB WITH SHALLOW HONEYCOMB IN SPAN 3



NORTH APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED UP TO 1 1/4"



1/16" MAP CRACKING IN SPAN 3 NORTH BOUND LANE



END DECAYED EXTERIOR BULKHEAD BOARDS AT SOUTHEAST CORNER



PILES 2 AND 4 ENCASED AT END BENT 1



PILES 2 AND 4 ENCASED AT BENT 1



SURFACE SPALL ON EAST END OF BENT 1 CAP



SPAN 1 UNDERSIDE WITH PAINT PEELING AND SURFACE RUST, SIMILAR IN ALL SPANS



FILL LEAKAGE AT END BENT 1 BULKHEAD ALONG PILE 2



BENT 2 CAP SPALLED 6" LONG X 3 1/2" HIGH X 1 1/4" DEEP ON SPAN 2 FACE UNDER BAY 5



PILE 4 ENCASED AT BENT 2



DRIFT IN SPAN 3 AT BENT 2 PILE 3



SPAN 2 UNDERSIDE WITH PAINT PEELING AND SURFACE RUST



HAIRLINE VERTICAL CRACK IN END DIAPHRAGM AT END BENT 1 IN BAY 5



PILES 3 & 4 ENCASED AT BENT 3



PILE 4 AT END BENT 2 ENCASED



BEAM 1 IN SPAN 4 HAS 3 BULLET HOLES IN WEB (SEE SKETCH)

Structure Data Worksheet

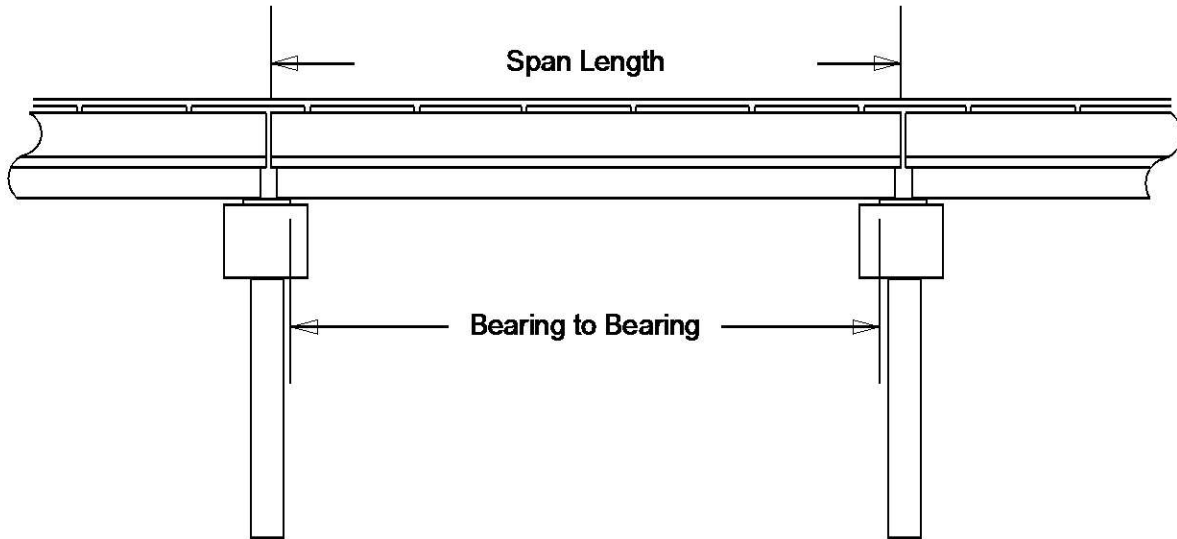
Spans

County: COLUMBUS

Structure No: 230171

Date: 07/11/2012

Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	18.333	16.6667	NBIS 69.416 FT.
2	18.333	17.6667	
3	18.333	17.6667	
4	18.333	16.6667	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 230171 County: COLUMBUS Date: 07/11/2012 By: RDH

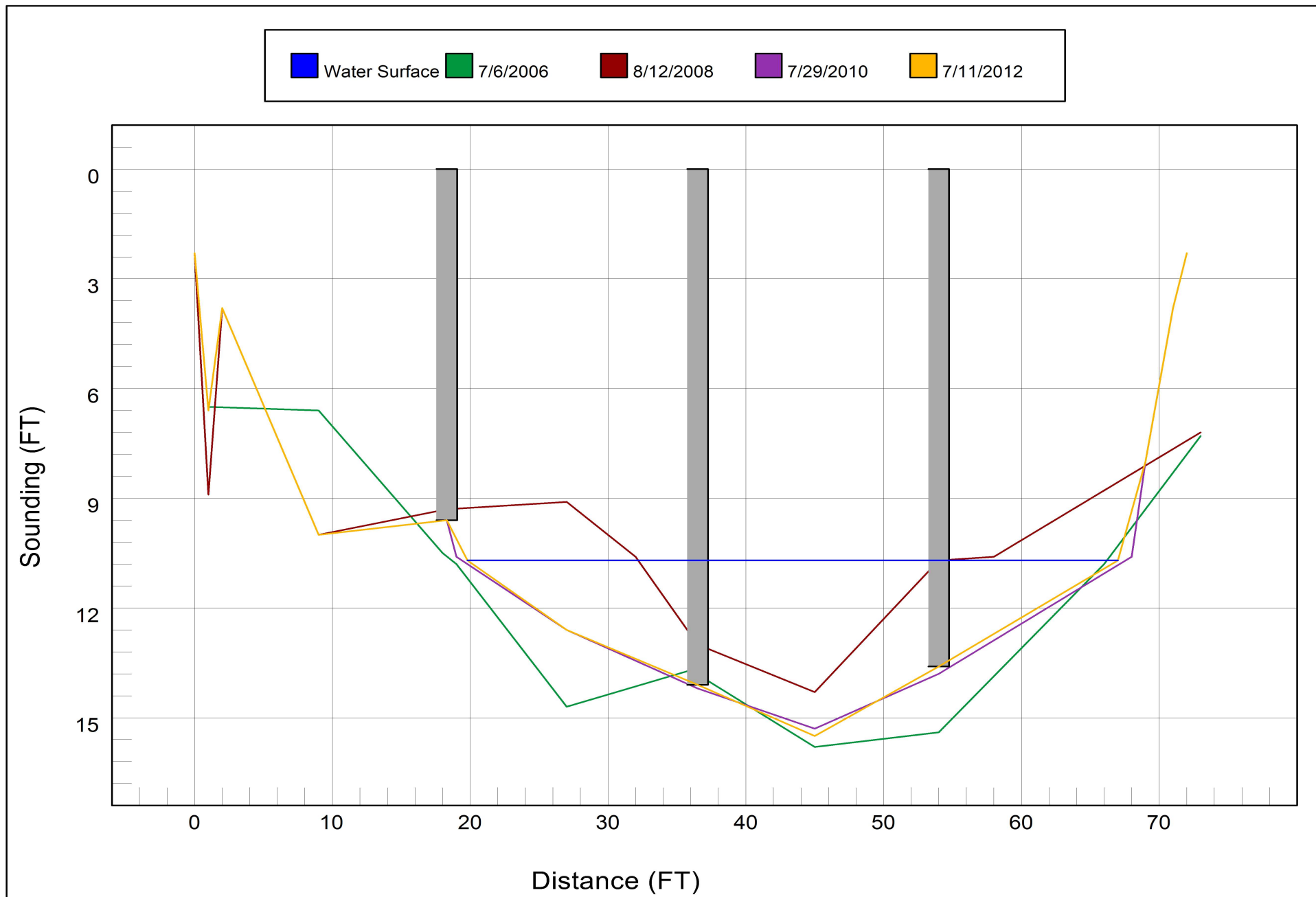
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 7 Location of Highwater Mark: ON PILES

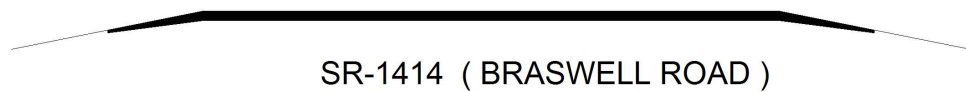
DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.3	TOP OF BULKHEAD			
1	6.6	GROUND AT CAP	1	8.9	GROUND AT CAP
2	3.8	Top of Cap			
9	10				
18.3	9.6	BENT 1	18.3	9.4	BENT 1
19.8	10.7	WSWE (WEST)			
27	12.6				
36.5	14.1	BENT 2	36.5	13.1	BENT 2
45	15.5				
54	13.6	BENT 3	54	12.4	BENT 3
67	10.7	WSWE			
69	8	GROUND AT CAP	69	7.3	GROUND AT CAP
71	3.8	Top of Cap			
72	2.3	TOP OF BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	19.25 ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

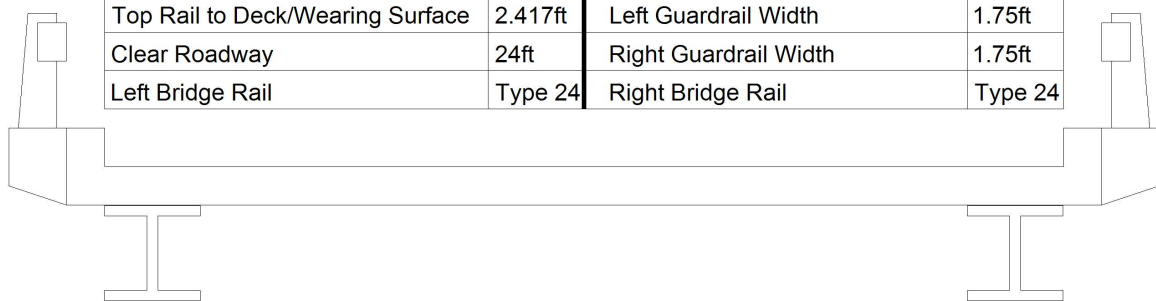
MEASUREMENTS VERIFIED BY RLK 7/29/10

MEASUREMENTS VERIFIED BY RLK 7/11/12

Title APPROACH ROADWAY		Description LOOKING NORTH	
Bridge No: 230171	Drawn By: SLK	Date: 06/08/2006	File Name: S0326000039

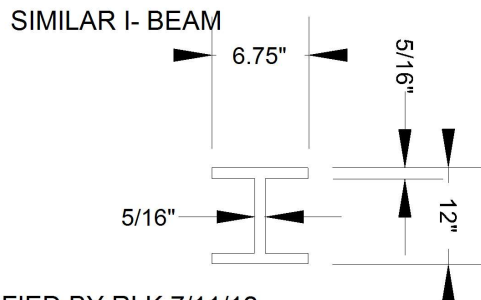
Bridge Inspection Field Sketch

Deck Width/Out to Out	25.33ft	Wearing Surface	
Between Rails	25.5ft	Median Width	
Curb Height	0.75ft	Median Height	
Top Rail to Deck/Wearing Surface	2.417ft	Left Guardrail Width	1.75ft
Clear Roadway	24ft	Right Guardrail Width	1.75ft
Left Bridge Rail	Type 24	Right Bridge Rail	Type 24



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	0.417	Left Overhang	0.583
Top of Rail to Bottom of Beam	3.833	Right Overhang	0.583

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam		
2	Steel I Beam	2.42 ft.	
3	Steel I Beam	2.42 ft.	
4	Steel I Beam	2.42 ft.	
5	Steel I Beam	2.42 ft.	
6	Steel I Beam	2.42 ft.	
7	Steel I Beam	2.42 ft.	
8	Steel I Beam	2.42 ft.	
9	Steel I Beam	2.42 ft.	
10	Steel I Beam	2.42 ft.	
11	Steel I Beam	2.42 ft.	



MEASUREMENTS VERIFIED BY RLK 7/11/12

MEASUREMENTS VERIFIED BY RLK 7/29/10

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

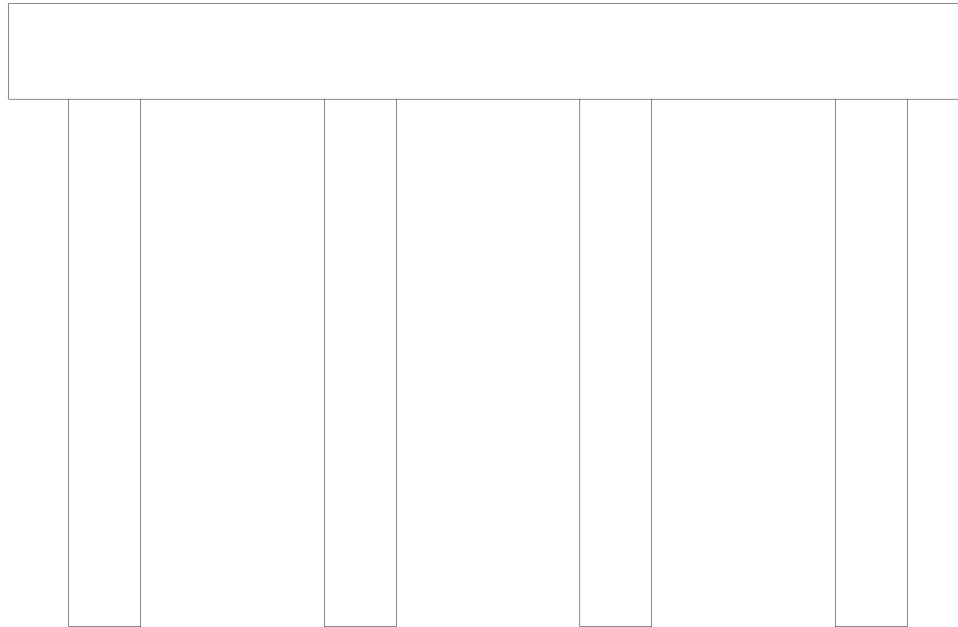
Bridge No: 230171

Drawn By: SLK

Date: 06/08/2006

File Name: S0326000040

Bridge Inspection Field Sketch



Bent #	1		
Cap - Pre-Cast			
Cap Size	26.833ft Long	2ft Wide	2ft High
Left Overhang		Lt Cap/Beam Overhang	1.33ft
Right Overhang		Rt Cap/Beam Overhang	1.33ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	7.5 FT.		12 IN.		Vertical
2	Wood or Timber	Pile Bent	7.5 FT		12 IN.		Vertical
3	Wood or Timber	Pile Bent	7.5 FT		12 IN.		Vertical
4	Wood or Timber	Pile Bent			12 IN.		Vertical

NOTE: R.C. REPAIR JACKETS AT PILES 3 & 4, END BENT 1; PILES 2 & 4 AT BENT 1; PILE 4
BENT 2, PILES 3 & 4, BENT3; PILE 4, END BENT 2.

NO CROSSBRACING AT THE INTERIOR BENTS

MEASUREMENTS VERIFIED BY RLK 7/29/10

MEASUREMENTS VERIFIED BY RLK 7/11/12

Title

SUBSTRUCTURE

Description

SIMILAR END / INTERIOR BENT

Bridge No: 230171

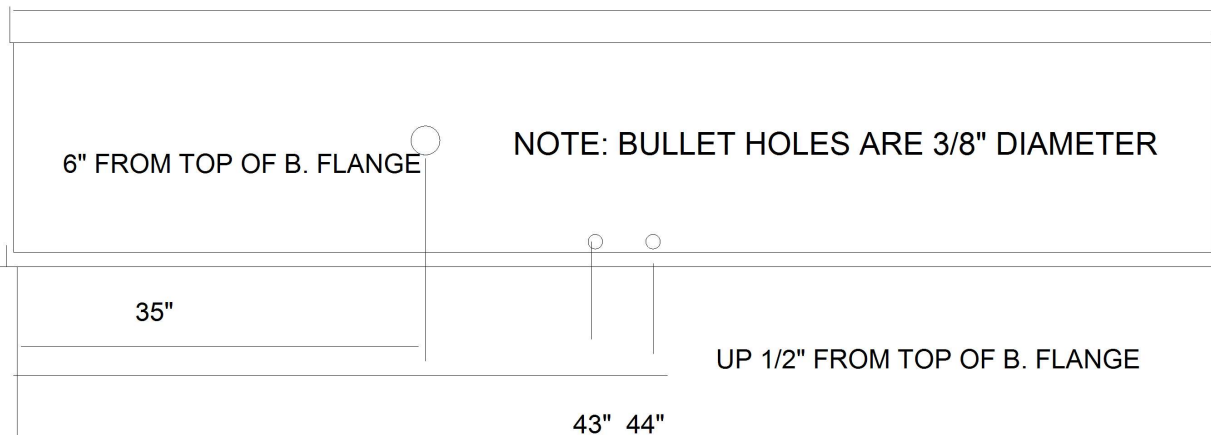
Drawn By: SLK

Date: 06/08/2006

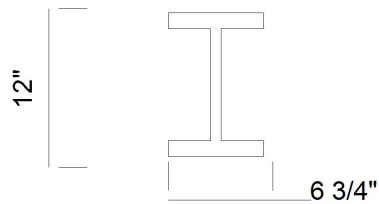
File Name: S0326000041

Bridge Inspection Field Sketch

BEAM 1 SPAN 4



EBT2 CAP



FLANGE AND WEBS = 5/16"

Title

BEAM 1 IN SPAN 4

Description

BULLET HOLES IN WEB

Bridge No: 230171

Drawn By: RLK

Date: 7/11/2012

File Name: S0098001281



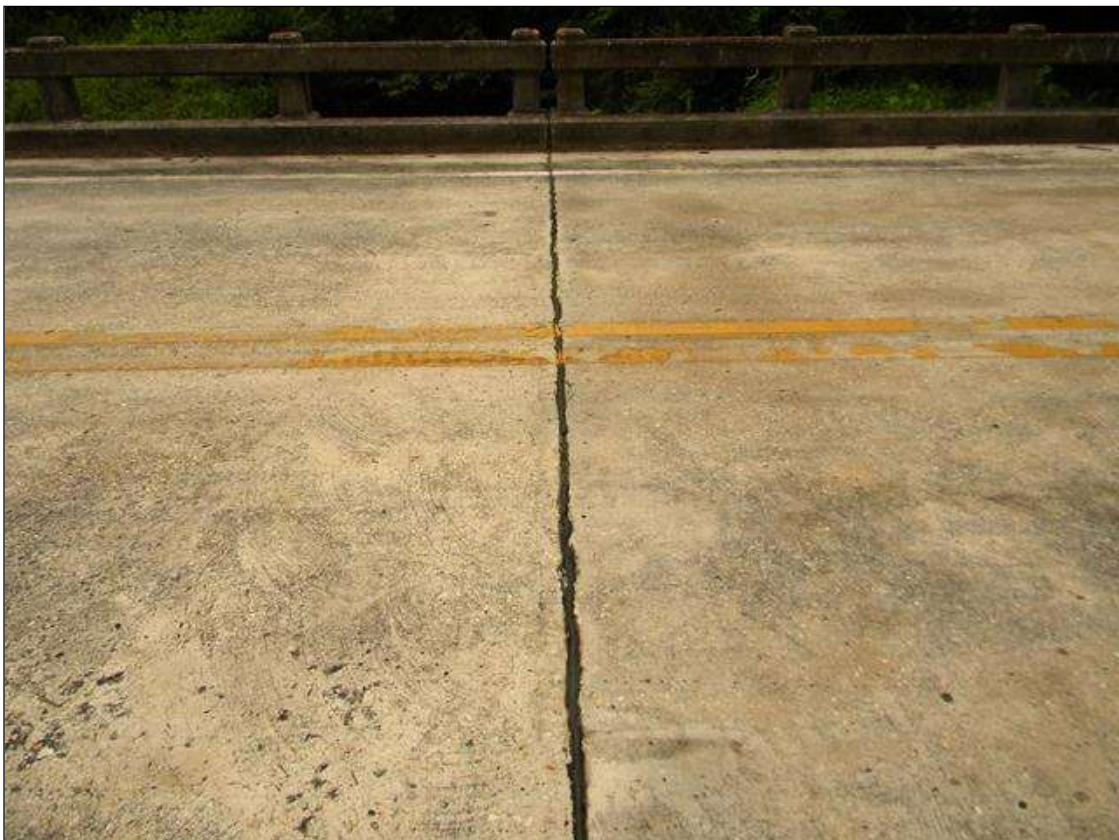
LOOKING NORTH (BRASWELL ROAD)



EAST SIDE, LOOKING NORTH



WEST SIDE, LOOKING NORTH



BENT 1 STANDARD JOINT, ALL JOINTS ARE SIMILAR



LOOKING SOUTH, OFF BRIDGE



LOOKING NORTH, OFF BRIDGE



UPSTREAM EAST



DOWNSTREAM WEST



LOOKING SOUTH



END BENT 1



BENT 1



EAST END OF BENT 1 CAP



SPAN 1 UNDERSIDE, ALL SPANS ARE SIMILAR



DOWNSTREAM WEST, THRU SPAN 2



UPSTREAM EAST, THRU SPAN 2



END BENT 2