



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROWAN BRIDGE NUMBER 790315 INSPECTION CYCLE 2 YRS
ROUTE SR1225 ACROSS GRANTS CREEK M.P. 0

LOCATION 0.3 MI. E. JCT. SR1477

SUPERSTRUCTURE TIMBER DECK ON I-BEAMS

END BENTS; TIMBER CAPS ON TIMBER PILES WITH TIMBER BULKHEADS

SUBSTRUCTURE

1@30.5'

SPANS

LONGITUDE 80° 35' 23.55"

LATITUDE 35° 34' 24.44"

INSPECTION DATE 07/16/2014

PRESENT CONDITION FAIR

PRESENT POSTING N

NOT POSTED

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING EAST

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

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>

**BRIDGE INSPECTION RECORD AND SUMMARY
FOR SHORED STRUCTURES OR STRUCTURES
WITH TEMPORARY REPAIRS MADE TO KEEP
A BRIDGE OPEN**

BRIDGE: 790315 COUNTY: Rowan DATE: 8/15/2012

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>3</u>	<u>TSC</u> <u>8/16/12</u>
S I & A ITEM 64 OPERATING RATING		
HS <u>01</u> BY: <u>AK</u>		
S I & A ITEM 66 - INVENTORY RATING		
HS <u>01</u> BY: <u>AK</u>		

COMMENTS

*Two piles at end bent 1 repaired and encased in concrete.
Temporary Repairs*

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

Run Date: 08/07/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	790315		SUFFICIENCY RATING =		18.77	
(8) STRUCTURE NUMBER(FEDERAL)		000000001590315		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31012250					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	159	(4) PLACE CODE	12480				
(6) FEATURE INTERSECTED - GRANTS CREEK							
(7) FACILITY CARRIED SR1225							
(9) LOCATION 0.3 MI. E. JCT. SR1477							
(11) MILEPOINT		0					
(16) LAT 35° 34' 24.44"	(17) LONG	80° 35' 23.55"					
(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 -	Collector	17	
TYPE -		CODE	000	(100) STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(45) NUMBER OF SPANS IN MAIN UNIT		1		(101) PARALLEL STRUCTURE -	No Parallel Structure	N	
(46) NUMBER OF APPROACH SPANS				(102) DIRECTION OF TRAFFIC -	2-way Traffic	2	
(107) DECK STRUCTURE TYPE - 8		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	
AGE AND SERVICE				CONDITION			
(27) YEAR BUILT		1961		(58) DECK		5	
(106) YEAR RECONSTRUCTED				(59) SUPERSTRUCTURE		7	
(42) TYPE OF SERVICE : ON - Highway				(60) SUBSTRUCTURE		3	
UNDER - Waterway		CODE	15	(61) CHANNEL & CHANNEL PROTECTION		7	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		(62) CULVERTS		N	
(29) AVERAGE DAILY TRAFFIC		2100					
(30) YEAR OF ADT 2012	(109) TRUCK ADT PCT	7%		LOAD RATING AND POSTING			
(19) BYPASS OR DETOUR LENGTH		1 MI		(31) DESIGN LOAD	Unknown	0	
GEOMETRIC DATA				(63) OPERATING RATING METHOD -	Load Factor	1	
(48) LENGTH OF MAXIMUM SPAN		30 FT		(64) OPERATING RATING -	HS-1	1	
(49) STRUCTURE LENGTH		31 FT		(65) INVENTORY RATING METHOD -	Load Factor	1	
(50) CURB OR SIDEWALK: LEFT 0 FT RIGHT		0 FT		(66) INVENTORY RATING -	HS-1	1	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		23 FT		(70) BRIDGE POSTING -	No Posting Required	5	
(52) DECK WIDTH OUT TO OUT		24.17 FT		(41) STRUCTURE OPEN, POSTED ,OR CLOSED		D	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		19 FT		DESCRIPTION -	Open Temporary Shoring		
(33) BRIDGE MEDIAN - No Median		CODE	0	APPRAISAL			
(34) SKEW 0°	(35) STRUCTURE FLARED	0		(67) STRUCTURAL EVALUATION		3	
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(68) DECK GEOMETRY		2	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		23 FT		(69) UNDERCLEARANCES, VERTI & HORIZ		N	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(71) WATERWAY ADEQUACY		7	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(72) APPROACH ROADWAY ALIGNMENT		8	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		(36) TRAFFIC SAFETY FEATURES		1000	
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(113) SCOUR CRITICAL BRIDGES		3	
NAVIGATION DATA				PROPOSED IMPROVEMENTS			
(38) NAVIGATION CONTROL - No Navigational Control		CODE	0	(75) TYPE OF WORK -		CODE	
(111) PIER PROTECTION -		CODE		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(39) NAVIGATION VERTICAL CLEARANCE		0		(94) BRIDGE IMPROVEMENT COST			
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		(95) ROADWAY IMPROVEMENT COST			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		(96) TOTAL PROJECT COST			
				(97) YEAR OF IMPROVEMENT COST ESTIMATE			
				(114) FUTURE ADT 4200	(115) YEAR FUTURE ADT	2025	
				INSPECTIONS			
				(90) INSPECTION DATE		07/16/2014	
				(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			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 08/07/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROWAN	9	1	790315	31	FEET
ROUTE CARRIED :		FEATURE INTERSECTED :			
SR1225		GRANTS CREEK			
LOCATED :		BRIDGE NAME :		CITY :	
0.3 MI. E. JCT. SR1477				CHINA GROVE	
FUNC. CLASS :		SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
17		FA	NFA	2100 2012	LT 253 RT 253
BUILT :		BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1961		BMU			Unknown
REHAB :		BY :	PROJ :	ALIGNMENT :	SKEW :
		BMU	5.6351	TAN	90
LANES :				UNDER :	
ON 2				0	
NAVIGATION :		HT. CRN. TO BED :		WATER DEPTH :	
VC 0 FT		HC 0 FT		11 FT	
				1 FT	
SUPERSTRUCTURE : TIMBER DECK ON I-BEAMS					
SUBSTRUCTURE : END BENTS:TIMBER CAPS ON TIMBER PILES, TIMBER BULKHEADS					
SPANS : 1@30'6"					
BEAMS OR GIRDERS : 12 LINES OF W16X40 I-BEAMS @ 2'0" CENTERS					
FLOOR :		ENCROACHMENT :		DECK (OUT TO OUT) :	
4X8"TIM,3. 5"AWS				24.17 FT	
CLEAR ROADWAY :		BETWEEN RAILS :		SIDEWALK OR CURB :	
23 FT		23 FT		LT 0 FT RT 0 FT	
VERT.CL.OVER : 999.9 FT					
INV.RTG. :		OPE.RTG. :	CONTR.MEMBER :	POSTED :	DATE
HS-1		HS-1	Int.bms	SV TTST	09/13/1984
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. 790315 COUNTY ROWAN ROUTE SR1225 OVER GRANTS CREEK
 STRUCTURE TYPE TIMBER DECK ON I-BEAMS
 ROUTE ORIENTATION W - E SPANS

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.	a. WATERWAY	G	
					b. ALIGNMENT	G	
					c. SCOUR	G	
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.	G	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE			50. APPROACH ROADWAY CONDITION			G
	b. TIMBER	1	F	51. APPROACH SLABS			
	c. STEEL PLANK			52. PAINT SYSTEM			CODE V G
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE			54. RESPONSE TO LIVE LOAD			G
	b. TIMBER			55. ESTIMATED REMAINING LIFE			14
	c. ALUMINUM						
	d. STEEL		G				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			NA				
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)			4
	d. STANDARD JOINTS			64. TOTAL SNOOPER INSP. TIME (HRS)			0
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0
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	7	
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	5	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			G	d. CHANNEL & CHANNEL PROT.	ITEM 61	7	
13. END DIAP'S, CURTAIN WALLS, & CONN'S							
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS			
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			G	a. WATERWAY ADAQUACY		7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT		8	
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		F	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			BUCKET TRUCK			NO
	b. ABUT. & BENT COL'S BREASTWALLS			BOAT			NO
	c. ABUT. & INT. BENT PILES			OTHER			
	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)							
40. FENDER SYSTEMS				80. INSPECTED BY:	Dw M		
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 DREW HACKNEY			
Assisted By WC			
Item No.	Grade		
1	F	AWS HAS TRANSVERSE CRACKING AT TIMBER DECKING BOARD JOINTS	
2b	F	TIMBERS WEATHERED AND DISCOLORED	
3d	G	6" SPLIT ON RAIL AT NE CORNER	
10	G	SURFACE RUST ON BOTTOM FLANGE OF BEAMS 6 AND 7 MID SPAN SURFACE RUST ON TOP FLANGE OF BEAMS 6 AND 7 AT END BENT 2	
10A	NO	NO CURVED GIRDERS	
35a	F	END BENT 1 HAS 3, 1" DIAMETER DECAY HOLES, UP TO 10"DEEP ON SOUTH END. END BENT 1 HAS AN 1" DIAMETER DECAY HOLE 2" DEEP	
35b	F	TIMBERS WEATHERED AND CHECKED WITH DELAM AROUND CHECK CRACKS. END BENT 2 PILE 3 DECAY 24IN HIGH X 10IN WIDE X 2IN DEEP. PILES 3 AND 4 AT END BENT 1 HAVE BEEN TEMPORARY SHORED UP WITH ENCASED CONCRETE	
35c	F	DECAY ON BULKHEADS AT WINGS WITH FILL EXPOSED	
45c	G	POA HAS BEEN ISSUED, IF MUDLINE SCOURS 15' BELOW TOP OF RAIL AT END BENTS CONTACT HYDRAULICS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 790315

County ROWAN

Date: 07/16/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3342	Clean and Paint Structural Steel	SF	20	SURFACE RUST ON TOP FLANGES OF BEAMS 6 AND 7 NEAR END BENT 2, AND BOTTM FLANGES AT MID SPAN DECAY ON ENDS OF END BENT 1 CAP, DECAY ON PILE 3 AT END BENT 2	
3344	Repair / Replace Timber Substructure Components	LF	3		
3346	Repair / Maintain Timber Wings & Blkhds	SF	160		

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



WEAR SURFACE CRACKING ON DECK AT TIMBER DECKING BOARD JOINTS



NORTHEAST CORNER RAIL HAS A 6" SPLIT



NORTH END OF END BENT 1 CAP HAS SOFT AREA WITH A 1" WIDE X 2" HIGH X 2" DEEP DECAY AREA



SOUTH END OF END BENT 1 CAP HAS 3 DECAY HOLES 1" DIAMETER UP TO 10" DEEP



WING WALL DECAYED AT END BENT 1 SOUTHWEST CORNER



SURFACE RUST ON BOTTOM FLANGE OF BEAMS 6 AND 7 MID SPAN



PILE 3 AT END BENT 2 HAS DECAY AREA 24" X 10" HIGH X 2" DEEP



SURFACE RUST ON TOP FLANGE OF BEAMS 6 AND 7 NEAR END BENT 2



WING WALL DECAY AT NORTHEAST CORNER WITH FILL EXPOSED



SOUTHWEST WING DECAYED WITH FILL EXPOSED

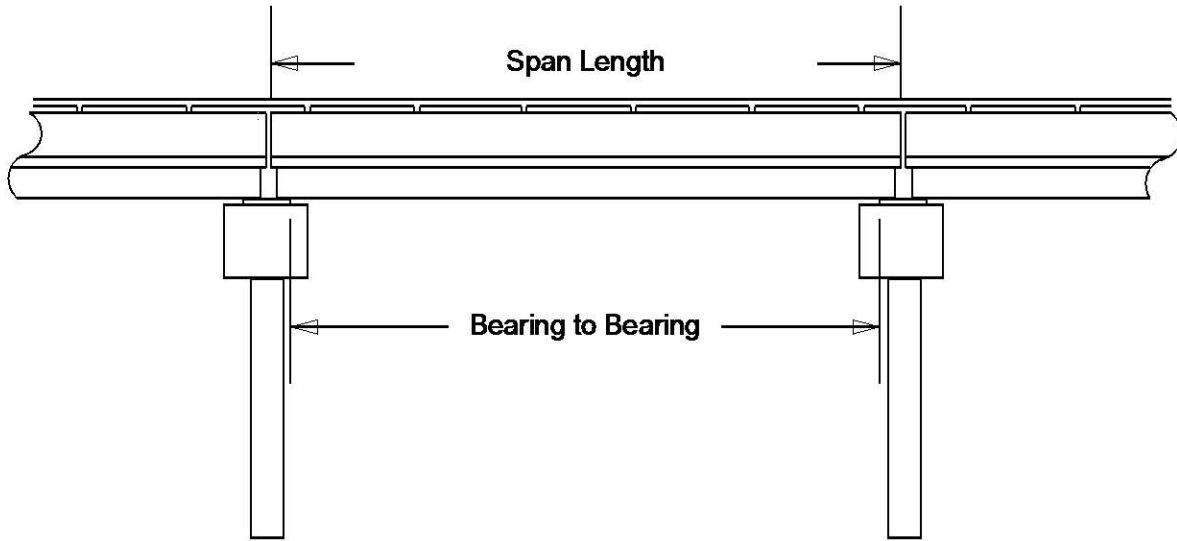


NORTHEAST WING DECAYED WITH FILL EXPOSED

Structure Data Worksheet

Spans

County: ROWAN Structure No: 790315 Date: 07/16/2014 Inspected By: DH



Span No	Span Length	Bearing to Bearing	Comments
1	30.5	29.583	NBIS BL 28.5

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 790315 County: ROWAN Date: 07/16/2014 By: DH

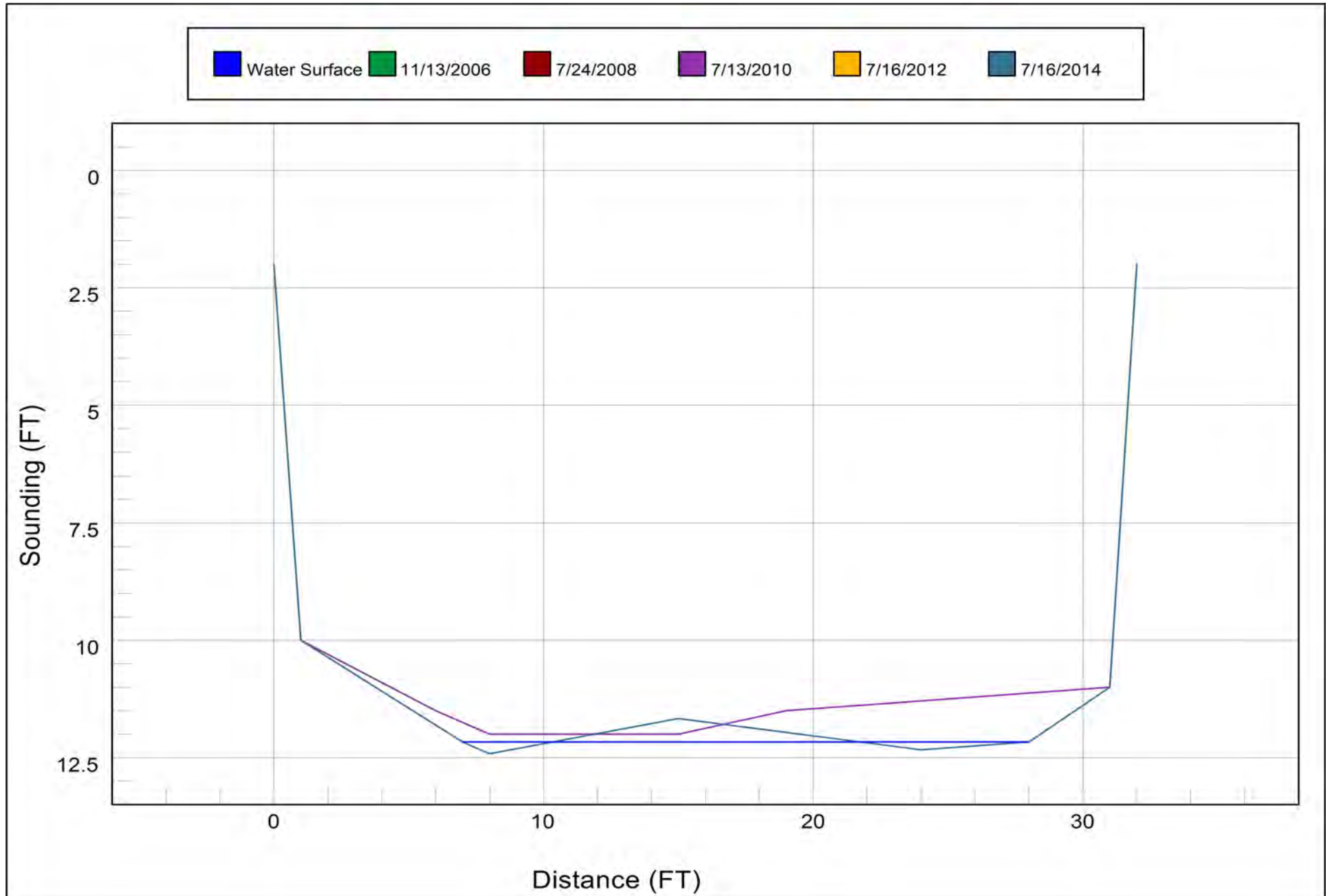
Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2				
1	10		1	8	
7	12.167	Water Surface/Water Edge (WSWE)			
8	12.417				
15	11.667				
24	12.333				
28	12.167	Water Surface/Water Edge (WSWE)			
31	11		31	10	
32	2				

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



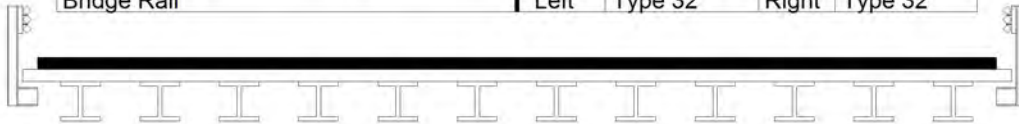
Roadway	19ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED, DH 7/16/2014

Title APPROACH ROADWAY SKETCH		Description APPROACH ROADWAY SKETCH	
Bridge No: 790315	Drawn By: GDP	Date: 07/24/08	File Name: S0066001612

Bridge Inspection Field Sketch

Deck Width/Out to Out	24.17ft	Between Rails	23ft
Clear Roadway	23ft	Wearing Surface	0.29ft
Median Width		Median Height	
Curb Height		Left	Right
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left	Right
Top of Rail to Deck/Wearing Surface		Left	Right
Bridge Rail		Left	Right



Measurements for Span #	1		
Deck Thickness	0.29	Left Overhang	1.083
Top of Rail to Bottom of Beam	4.25	Right Overhang	1.083

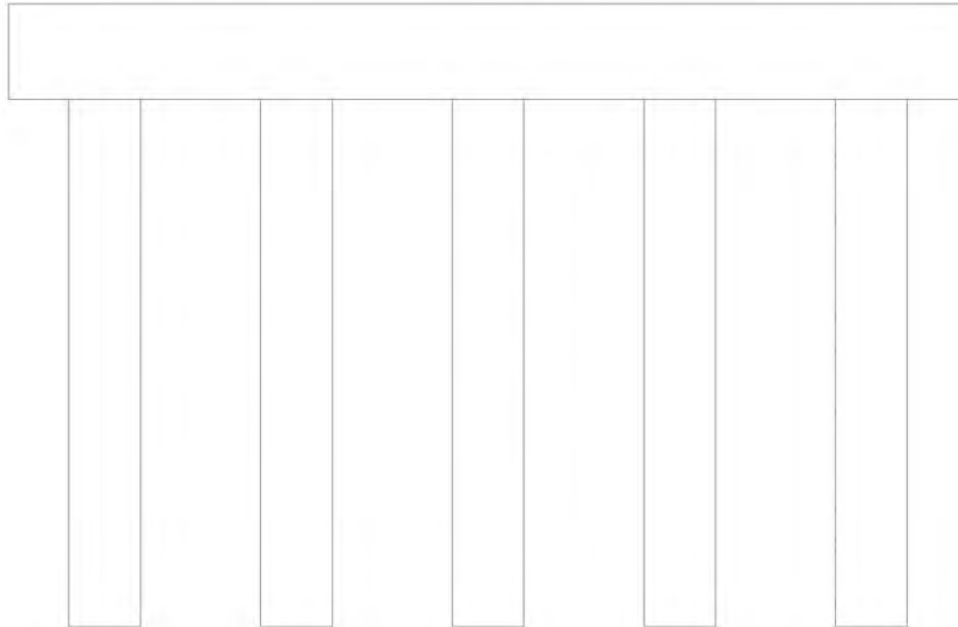
Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2ft	
2	Steel I Beam	2ft	
3	Steel I Beam	2ft	
4	Steel I Beam	2ft	
5	Steel I Beam	2ft	
6	Steel I Beam	2ft	
7	Steel I Beam	2ft	
8	Steel I Beam	2ft	
9	Steel I Beam	2ft	
10	Steel I Beam	2ft	
11	Steel I Beam	2ft	
12	Steel I Beam	ft	

BEAM SIZE: 1.333ft HIGH X .583ft WIDE X .042ft FLANGE X .031ft WEB
 DIAPHRAMS: (["s) .219ft X .833 @ 1/2 POINT (3 - BOLT CONNECTION)

MEASUREMENTS VERIFIED, DH 7/16/2014

Title STRUCTURE DATA SKETCH		Description STRUCTURE DATA SKETCH	
Bridge No: 790315	Drawn By: GDP	Date: 07/24/08	File Name: S0066001613

Bridge Inspection Field Sketch



Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	26ft Long	.98ft Wide	1ft High
Left Overhang	1ft	Lt Cap/Beam Overhang	1.083ft
Right Overhang	1ft	Rt Cap/Beam Overhang	1.083ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	6		1		Vertical
2	Wood or Timber	Pile Bent	6		1		Vertical
3	Wood or Timber	Pile Bent	6		1		Vertical
4	Wood or Timber	Pile Bent	6		1		Vertical
5	Wood or Timber	Pile Bent			1		Vertical

MEASUREMENTS VERIFIED, DH 7/16/2014

Title PILE DIAGRAM END BENTS		Description PILE DIAGRAM END BENTS	
Bridge No: 790315	Drawn By: GDP	Date: 07/24/08	File Name: S0066001614

Bridge Inspection Field Sketch

Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.			Right Beam to End of Cap.		
25.417 ft.	.980 ft.	1.000 ft.	1.416 ft.	1.416 ft.	2.000 ft.			2.000 ft.		
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height	MEASUREMENTS VERIFIED BY DH 7/16/14							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.				Vertical	No	No	No	No
2	Timber	5.083 ft.				Vertical	No	No	No	No
3	Timber	5.833 ft.				Vertical	No	No	No	Yes
4	Timber	5.667 ft.				Vertical	No	No	No	Yes
5	Timber					Vertical	No	No	No	No
Bent/Abutment #: 1 Similar Bents:										

Title		Description	
END BENT 1		PILES AT END BENT 1	
Bridge No: 790315	Drawn By: TFM	Date: 7/17/2012	File Name: S0062000594



LOOKING EAST



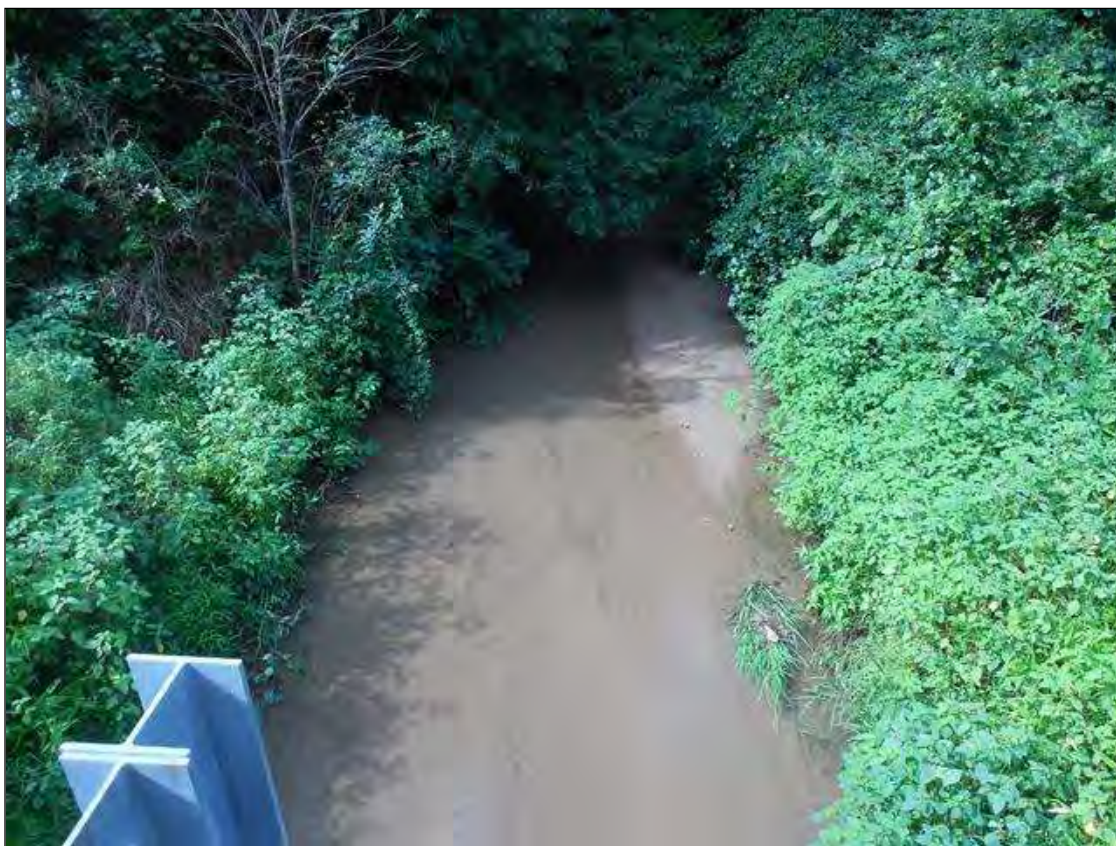
WEST APPROACH



NORTH PROFILE



LOOKING DOWNSTREAM



LOOKING UPSTREAM



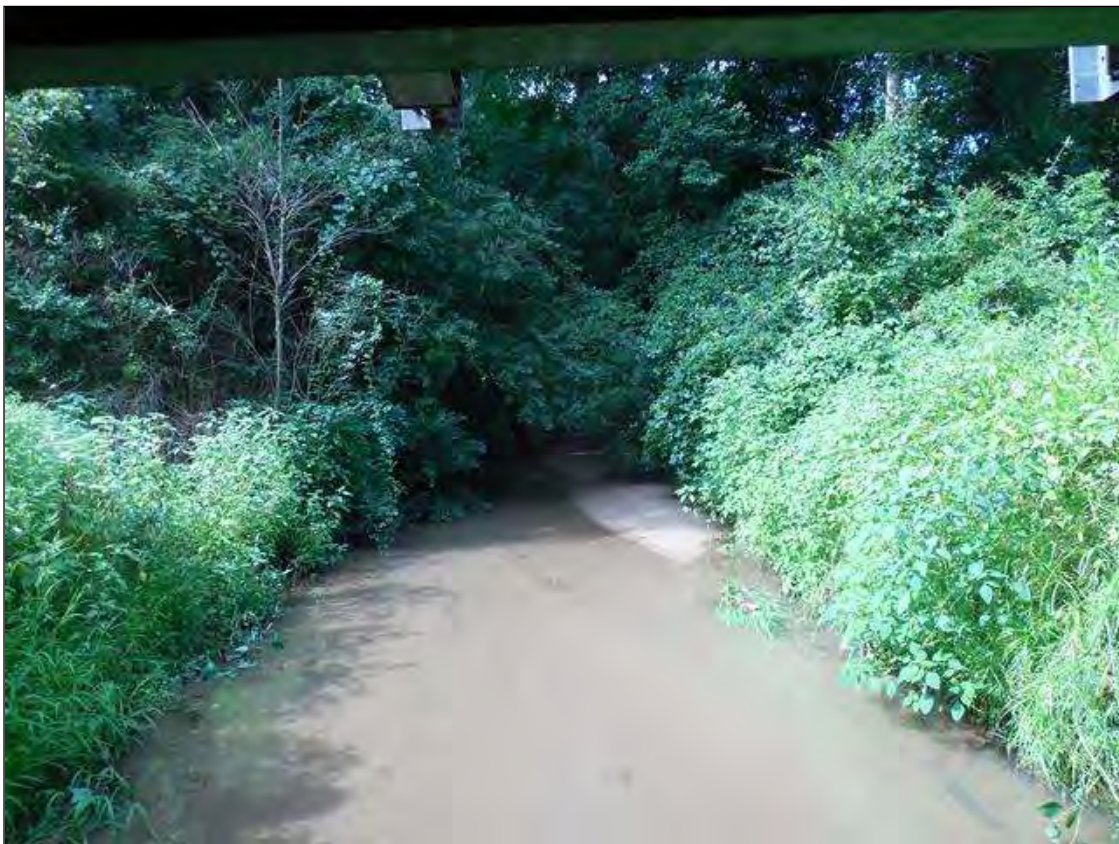
EAST APPROACH



LOOKING WEST



SOUTH PROFILE



LOOKING UPSTREAM



LOOKING DOWNSTREAM



UNDERSIDE OF DECK



END BENT 2



END BENT 1