

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE
TEMPORARY REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY WILKES BRIDGE NUMBER 960405 INSPECTION CYCLE 0 YRS
ROUTE SR1163 ACROSS ELK CREEK M.P. 0

LOCATION 150 FT.W.JCT.SR1162

SUPERSTRUCTURE TIMBER FLOOR ON STEEL GIRDER FLOORBEAM SYSTEM(BMD-3)

SUBSTRUCTURE E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAP/TIM.P&CONC.SILL

SPANS 1 @ 35'-3; 1 @ 40'; 1 @ 35'-3

LONGITUDE 81° 24' 52.34"

LATITUDE 36° 5' 24.25"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 10/17/2012

OPERATING RATING

PRESENT POSTING SV 11 TTST 14 SV 11 TTST 14

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT (4) DELINEATORS, (2) ONE LANE BRIDGE



WEST APPROACH LOOKING EAST

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

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

Run Date: 11/19/2012

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	960405		SUFFICIENCY RATING =		28.42	
(8) STRUCTURE NUMBER(FEDERAL)		000000001930405		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31011630					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE	193	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED -	ELK CREEK			(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED	SR1163			(26) FUNCTIONAL CLASS -	Local	09	
(9) LOCATION	150 FT.W.JCT.SR1162			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT	36° 5' 24.25"	(17)LONG	81° 24' 52.34"	(102)DIRECTION OF TRAFFIC -	One Lane Bridge, 2-way Traffic	3	
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions	T	
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network	0	
				(20) TOLL	On Free Road	3	
				(31) MAINTAIN -	State Highway Agency	01	
				(22) OWNER -	State Highway Agency	01	
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE MAIN:	Steel			(58) DECK		7	
TYPE -	Girder or Floorbeam System	CODE	303	(59) SUPERSTRUCTURE		5	
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE		4	
TYPE -		CODE	000	(61) CHANNEL & CHANNEL PROTECTION		7	
(45) NUMBER OF SPANS IN MAIN UNIT			3	(62) CULVERTS		N	
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE -	8	CODE		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	Unknown	0	
(A) TYPE OF WEARING SURFACE -		CODE		(63) OPERATING RATING METHOD -	Load Factor		
(B) TYPE OF MEMBRANE -		CODE		(64) OPERATING RATING -	HS-1	101	
(C) TYPE OF DECK PROTECTION -		CODE		(65) INVENTORY RATING METHOD -	Load Factor		
				(66) INVENTORY RATING -	HS-1	101	
				(70) BRIDGE POSTING -	Posting Required	0	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1964	(67) STRUCTURAL EVALUATION		3	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		7	
(42) TYPE OF SERVICE : ON -	Highway			(69) UNDERCLEARANCES,VERTI & HORIZ		N	
UNDER -	Waterway	CODE	15	(71) WATERWAY ADEQUACY		7	
(28) LANES: ON STRUCTURE	1 UNDER STRUCTURE		0	(72) APPROACH ROADWAY ALIGNMENT		3	
(29) AVERAGE DAILY TRAFFIC			90	(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT	2000	(109) TRUCK ADT PCT	%	(113)SCOUR CRITICAL BRIDGES		U	
(19) BYPASS OR DETOUR LENGTH			11 MI				
GEOMETRIC DATA				PROPOSED IMPROVEMENTS			
(48) LENGTH OF MAXIMUM SPAN			40 FT	(75) TYPE OF WORK -		CODE	
(49) STRUCTURE LENGTH			111 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(50)CURB OR SIDEWALK: LEFT	.5 FT RIGHT		.5 FT	(94) BRIDGE IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			15.833 FT	(95) ROADWAY IMPROVEMENT COST			
(52) DECK WIDTH OUT TO OUT			18.083 FT	(96) TOTAL PROJECT COST			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			16 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(33) BRIDGE MEDIAN -	No Median	CODE	0	(114)FUTURE ADT	180	(115) YEAR FUTURE ADT	2025
(34) SKEW	0°	(35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	INSPECTIONS			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			15.833 FT	(90) INSPECTION DATE		10/17/2012	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT	A) FRACTURE CRIT DETAIL -	YES 24Mo	A)	10/17/2012
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT	B) UNDERWATER INSP -	NO	B)	
(56) MIN LAT UNDERCLEAR LT REF -			000 FT	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: 11/19/2012

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WILKES	11	3	960405	111	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1163	ELK CREEK

LOCATED :	BRIDGE NAME :	CITY :
150 FT.W.JCT.SR1162		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	90 2000	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1964	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
			TAN	90	ON 1	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		20 FT		2		FT

SUPERSTRUCTURE : TIMBER FLOOR ON STEEL GIRDER FLOORBEAM SYSTEM(BMD-3)

SUBSTRUCTURE : E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAP/TIM.P&CONC.SILL

SPANS : 1 @ 35'-3; 1 @ 40'; 1 @ 35'-3

BEAMS OR GIRDERS : 3 LINES 21 GIRDERS;6 LINES 7 & 8 I-BEAMS/10 FLOORBEAMS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/1 AWS		18.083 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
15.833 FT	16.833 FT	LT .5 FT RT .5 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	IntGirder	SV 11	14	09/05/2006

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection - Contract
 BRIDGE NO. 960405 COUNTY WILKES ROUTE SR1163 OVER ELK CREEK
 STRUCTURE TYPE TIMBER FLOOR ON STEEL GIRDER FLOORBEAM SYSTEM(BMD-3)
 ROUTE ORIENTATION W - E SPANS 1 @ 35'-3; 1 @ 40'; 1 @ 35'-3

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

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 Robert Pruett			
Assisted By JDL			
Item No.	Grade		
1	F	FULL WIDTH X 1/8" WIDE TRANSVERSE CRACKS THROUGHOUT DECK WEARING SURFACE [SEE PHOTO].	
7	F	VEGETATION GROWTH ALONG SOUTH CURB [SEE PHOTO].	
10	F	AREAS OF SURFACE RUST THROUGHOUT GIRDERS [SEE PHOTO]. BOTTOM FLANGE OF GIRDER 2 IN SPAN 1 IS BENT NEAR 2/3 POINT.	
10A	NO	NO CURVED GIRDERS.	
11	F	AREAS OF SURFACE RUST ON THE STRINGERS [SEE PHOTO]. MOST STRINGERS HAVE ONE ANCHOR BOLT AT INTERIOR FLOORBEAM CONNECTIONS.	
14	F	AREAS OF SURFACE RUST THROUGHOUT FLOORBEAMS. MOST ANCHOR BOLTS MISSING AT STRINGER CONNECTION ON END FLOORBEAMS.	
52	F	PEELING PAINT THROUGHOUT GIRDERS, FLOORBEAMS AND STRINGERS [SEE PHOTOS].	
35a	F	CHECKING AND SOFT AREAS ESPECIALLY AT ENDS. VERTICAL SPLITS ON ENDS.	
35b	F	FEW HOLLOW SOUNDING AREAS AROUND X-FRAME CONNECTIONS AT THE BENTS. ABUTMENT 2 POSTS ARE BOWED FROM BULKHEAD PRESSURE. 3'-0" HIGH AREA OF DECAY IN SOUTHWEST WINGWALL SOLDIER PILE WHERE THE REMAINING SECTION IS A MINIMUM OF 4" X 4" [SEE PHOTO, PRIORITY MAINTENANCE]. 4'-0" HIGH X 4" WIDE X 2" DEEP AREA OF SPLINTERING IN COLUMN 4 OF ABUTMENT 2 [SEE PHOTO].	
35c	F	2'-0" LONG X 5" HIGH X 2" DEEP AREA OF DECAY AT BOTTOM OF ABUTMENT 1 BULKHEAD BETWEEN PILES 2 AND 3 [SEE PHOTO]. AREAS OF DECAY IN NORTHEAST WINGWALL AND ENDS OF ABUTMENT 2 BULKHEAD BOARDS, UP TO 6" LONG X 8" HIGH X 1" DEEP [SEE PHOTO]. ABUTMENT 2 BULKHEAD BOARDS ARE BULGING.	
36e	F	HAIRLINE MAP CRACKING, ISOLATED DELAMINATED AREAS AND SURFACE SCALING THROUGHOUT BENT CONCRETE SILLS [SEE PHOTO].	
45c	F	SOME UNDERMINING ALONG BENT FOOTINGS, PREDOMINATELY AT BENT 2.	

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 Robert Pruett			
Assisted By JDL			
Item No.	Grade		
71b	3	SHARP HORIZONTAL CURVES AT BOTH APPROACHES.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 960405

County WILKES

Date: 10/17/2012

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	3	3'-0" HIGH AREA OF DECAY IN SOUTHWEST WINGWALL SOLDIER PILE WITH A MINIMUM REMAINING SECTION OF 4" X 4" [PRIORITY MAINTENANCE]	
3376	Clean/Wash Bridge Decks	SF	200	REMOVE VEGETATION FROM CURB	
5603	Partial Cleaning and Painting of Structural Steel	SF	2000	CLEAN AND PAINT RUSTED AREAS ON STEEL SUPERSTRUCTURE	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960405 County WILKES

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	3 LF
Location:		
Abutment Substructure	Bent/Span No. 1	SOUTHWEST WINGWALL SOLDIER PILE
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
10/23/2012	R. Pruett	J. Lair
Details		
3'-0" HIGH AREA OF DECAY IN SOUTHWEST WINGWALL SOLDIER PILE WITH A MINIMUM REMAINING SECTION OF 4" X 4" [PRIORITY MAINTENANCE]		



FULL WIDTH X 1/8" WIDE TRANSVERSE CRACKS IN DECK WEARING SURFACE (SPAN 1 SHOWN)



VEGETATION GROWTH ALONG SOUTH CURB



DECAY IN SOUTHWEST WINGWALL SOLDIER PILE [PRIORITY MAINTENANCE]



DECAY IN ABUTMENT 1 BULKHEAD BETWEEN PILES 2 AND 3



PEELED PAINT AND SURFACE RUST ON GIRDER 2, SPAN 1 (OTHERS SIMILAR)



PEELED PAINT AND SURFACE RUST ON STRINGER 2, SPAN 1 (OTHERS SIMILAR)



HAIRLINE MAP CRACKING THROUGHOUT SILL OF BENT 2



SPLINTERING IN COLUMN 4 OF ABUTMENT 2

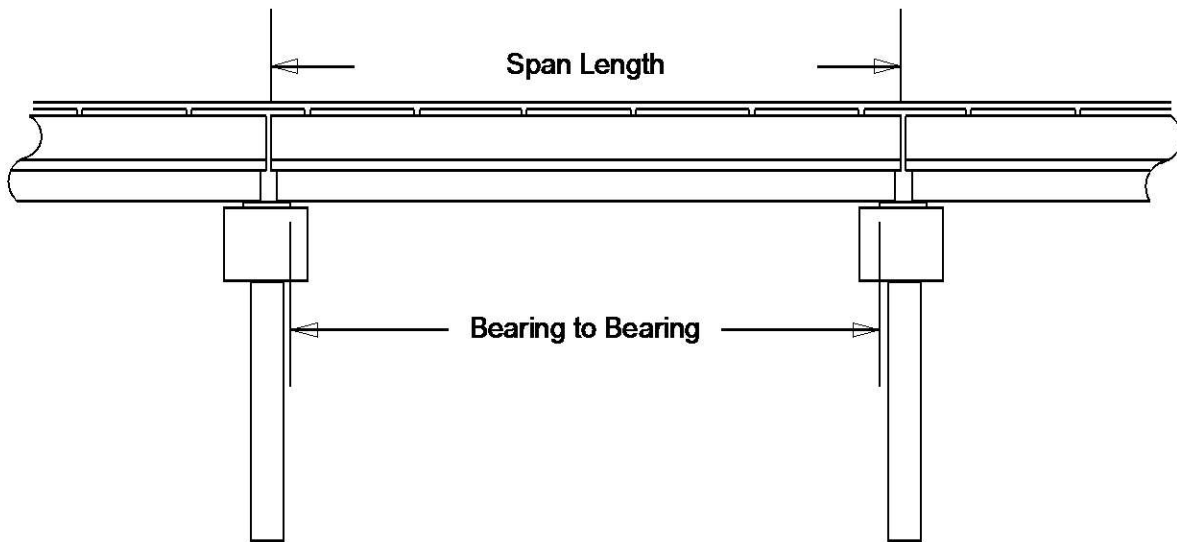


DECAY IN NORTHEAST WINGWALL AND ENDS OF ABUTMENT 2 BULKHEAD BOARDS

Structure Data Worksheet

Spans

County: WILKES Structure No: 960405 Date: 10/17/2012 Inspected By: RAP



Span No	Span Length	Bearing to Bearing	Comments
1	35' 3"	34' 5"	TOTAL LENGTH 110.500'
2	40' 0"	39' 6"	NBIS LENGTH = 107'
3	35' 3"	34' 5"	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 960405 County: WILKES Date: 10/17/2012 By: RAP

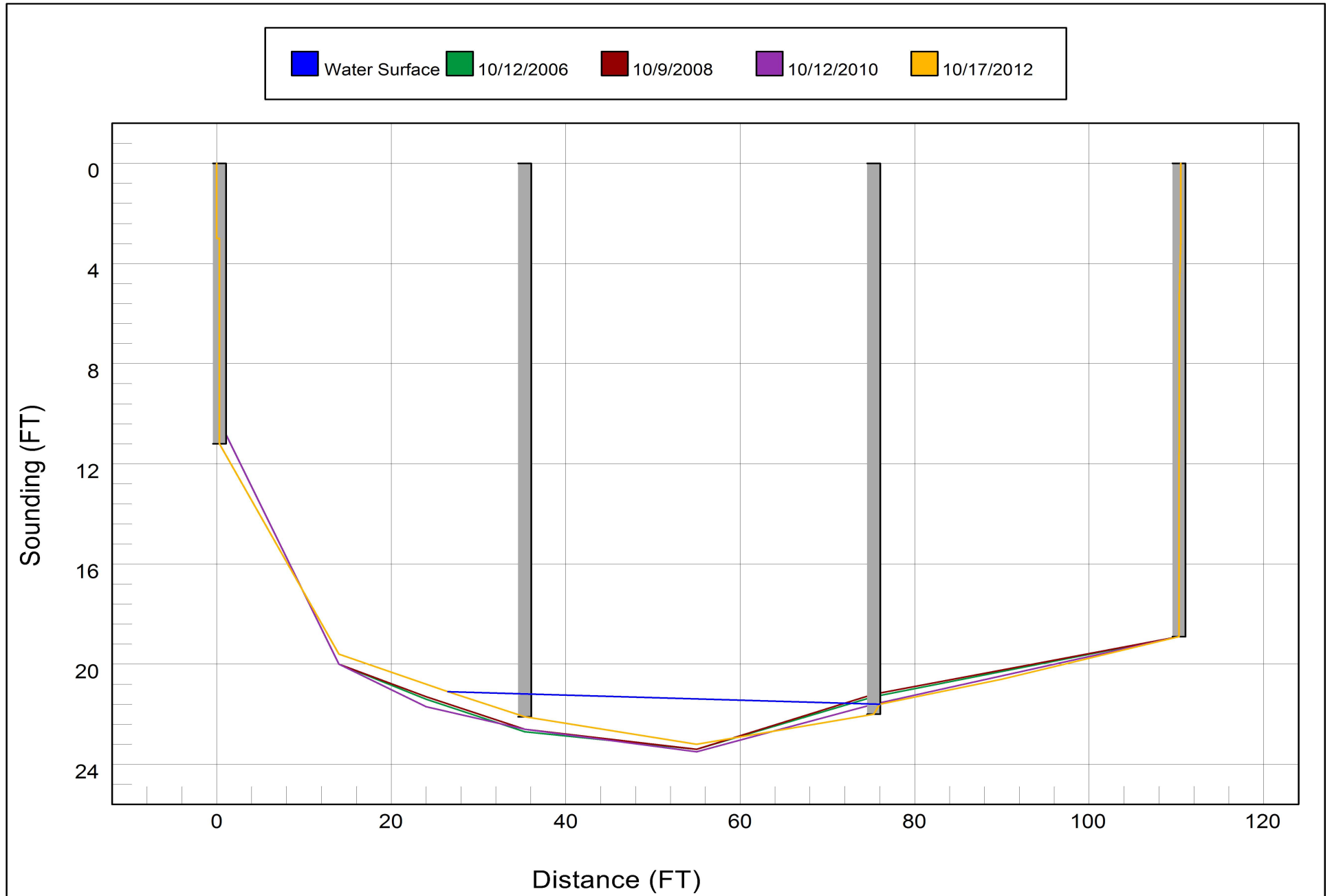
Record sounding from top of rail. Other location if needed: _____

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

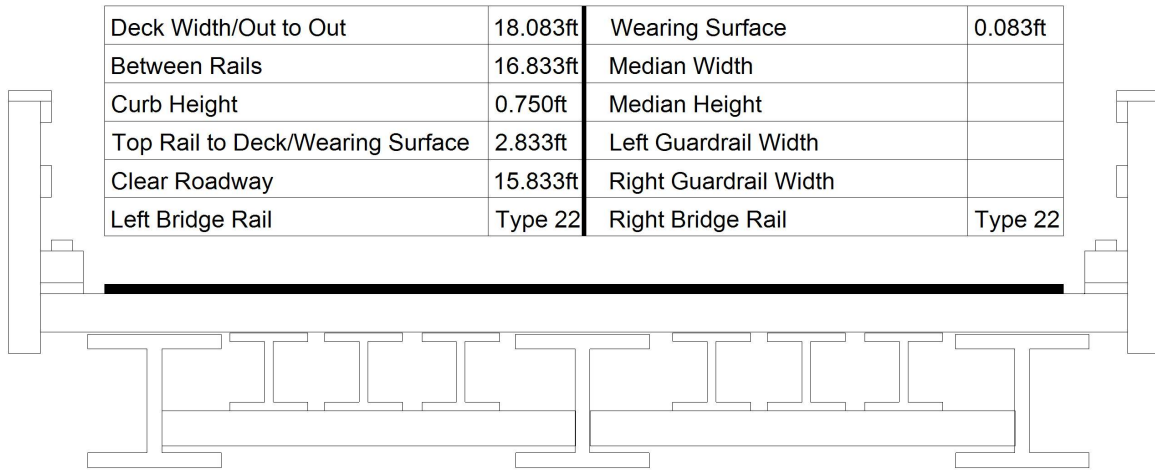
DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	0	TOP OF RAIL			
0	3	TOP OF FF			
0.3	3	TOP OF FF			
0.3	5.1	Top of Cap			
0.31	11.2	FACE OF ABUTMENT	0.31	11.4	FACE OF ABUTMENT
14	19.6	SLOPE			
26.5	21.1	WS WE			
35.3	22.1	BENT 1	35.3	22.9	BENT 1
55	23.2	BED			
75.3	22	BENT 2	75.3	23	BENT 2
76	21.6	WS WE			
90	20.6	SLOPE			
110.3	18.9	FACE OF ABUTMENT	110.3	19.3	FACE OF ABUTMENT
110.32	5.4	Top of Cap			
110.5	3	TOP OF FF			
110.51	0	TOP OF RAIL			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Measurements for Span #	1	SPAN 2 & 3 SIMILAR	
Deck Thickness	0.312	Left Overhang	0.792
Top of Rail to Bottom of Beam	5.250	Right Overhang	0.792

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.042ft	
2	Steel I Beam	2.083ft	STRINGER
3	Steel I Beam	2.083ft	STRINGER
4	Steel I Beam	2.042ft	STRINGER
5	Steel I Beam	2.042ft	
6	Steel I Beam	2.083ft	STRINGER
7	Steel I Beam	2.083ft	STRINGER
8	Steel I Beam	2.042ft	STRINGER
9	Steel I Beam		

VERIFIED 10/17/12 by KCI

Title

TS

Description

SUPER

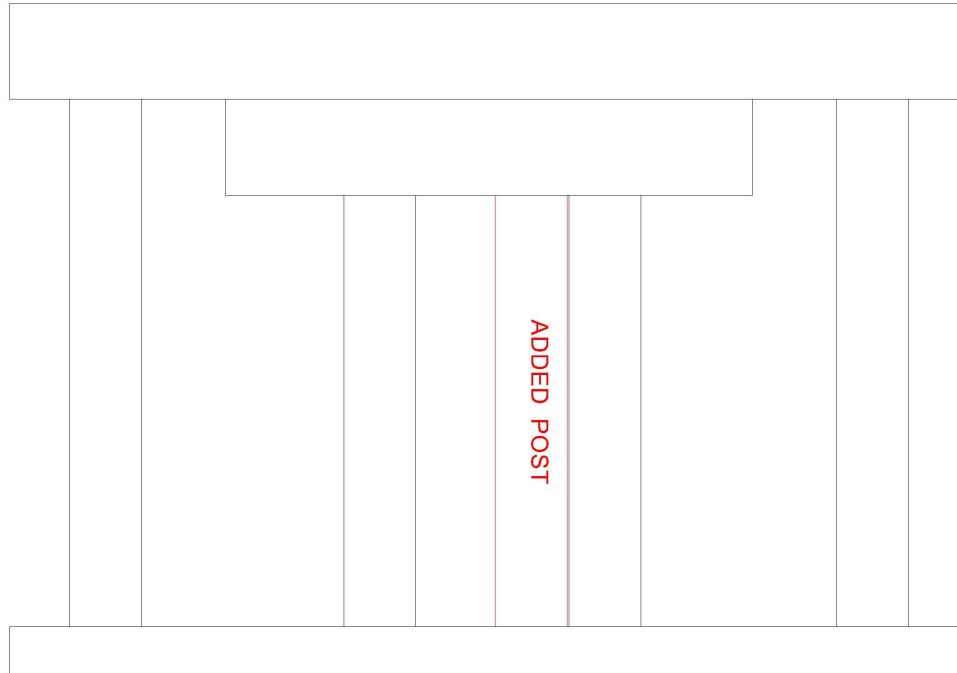
Bridge No: 960405

Drawn By: DCW

Date: 10/09/2008

File Name: S0126001092

Bridge Inspection Field Sketch



Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	18ft Long	0.833ft Wide	0.98ft High
Left Overhang	1ft	Lt Cap/Beam Overhang	.667ft
Right Overhang	1ft	Rt Cap/Beam Overhang	.750ft
Timber Sub Cap			
Size	8.417ft Long	0.833ft Wide	0.833ft High
Left pile to splice			
Left Overhang	2.167ft		
Right Overhang	2.25ft		
Sill - Sill			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	6' 0"		10"	9 3/4"	Vertical
2	Wood or Timber	Post and Sills	3' 0"		10"	9 3/4"	Vertical
3	Wood or Timber	Post and Sills	12"		12"	12"	Vertical
4	Wood or Timber	Post and Sills	6' 0"		10"	9 3/4"	Vertical
5	Wood or Timber	Post and Sills			10"	9 3/4"	Vertical

VERIFIED 10/17/12 by KCI

Title

SUB 1

Description

SUB AB 1

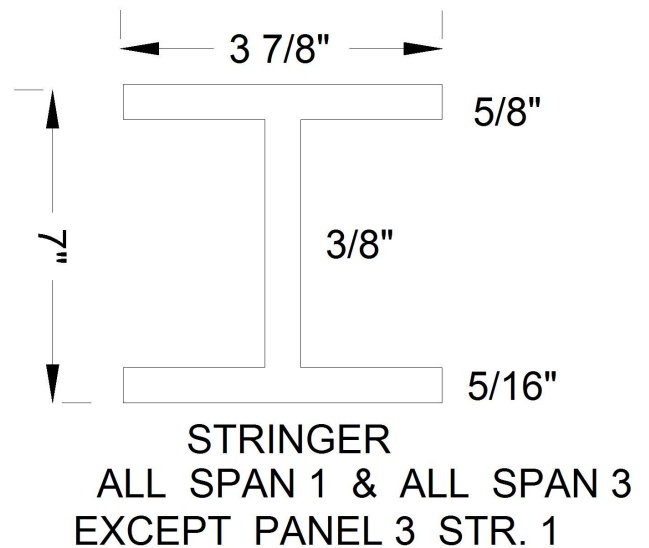
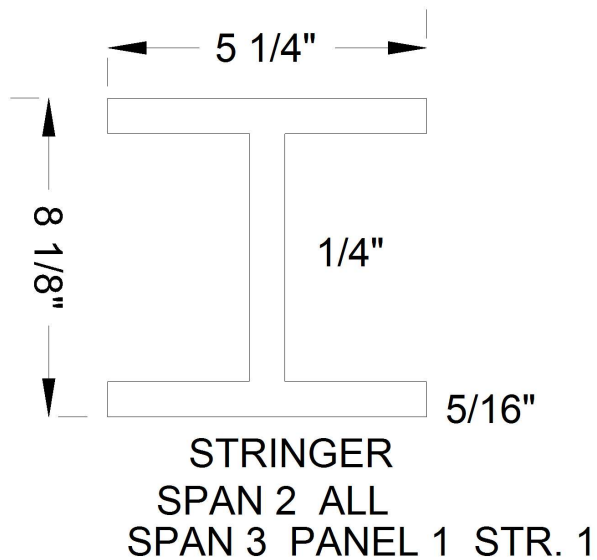
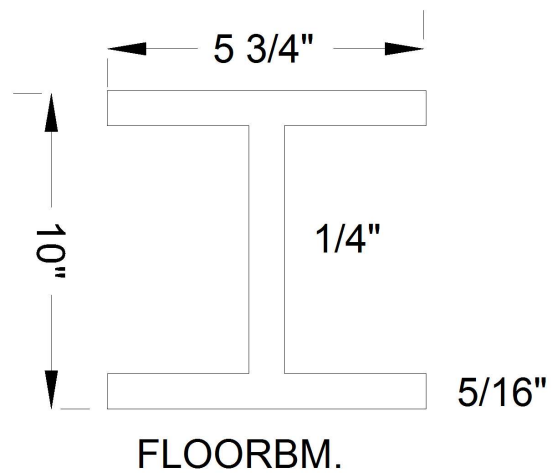
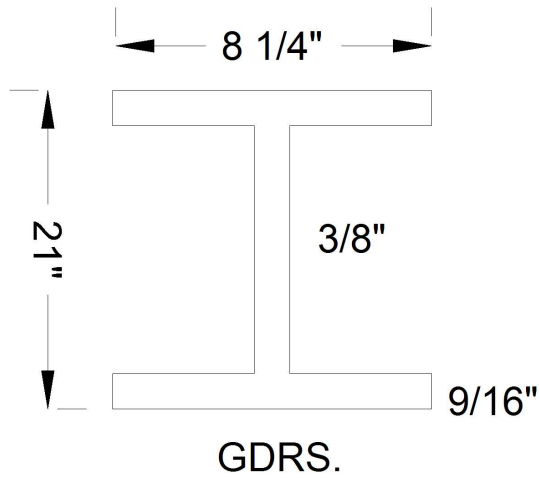
Bridge No: 960405

Drawn By: G.R.R

Date: 10/09/2008

File Name: S0130001246

Bridge Inspection Field Sketch



VERIFIED 10/17/12 by KCI

Title

BMS.

Description

BMS.

Bridge No: 960405

Drawn By: DCW

Date: 10/09/2008

File Name: S0126001093

Bridge Inspection Field Sketch

SR 1163



Roadway	16ft Wide	2 Paved Lanes	Looking East
Left Shoulder	3ft Wide		3ft Unpaved
Right Shoulder	3ft Wide		3ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED 10/17/12 by KCI

Title

APRW

Description

APPROACH ROADWAY

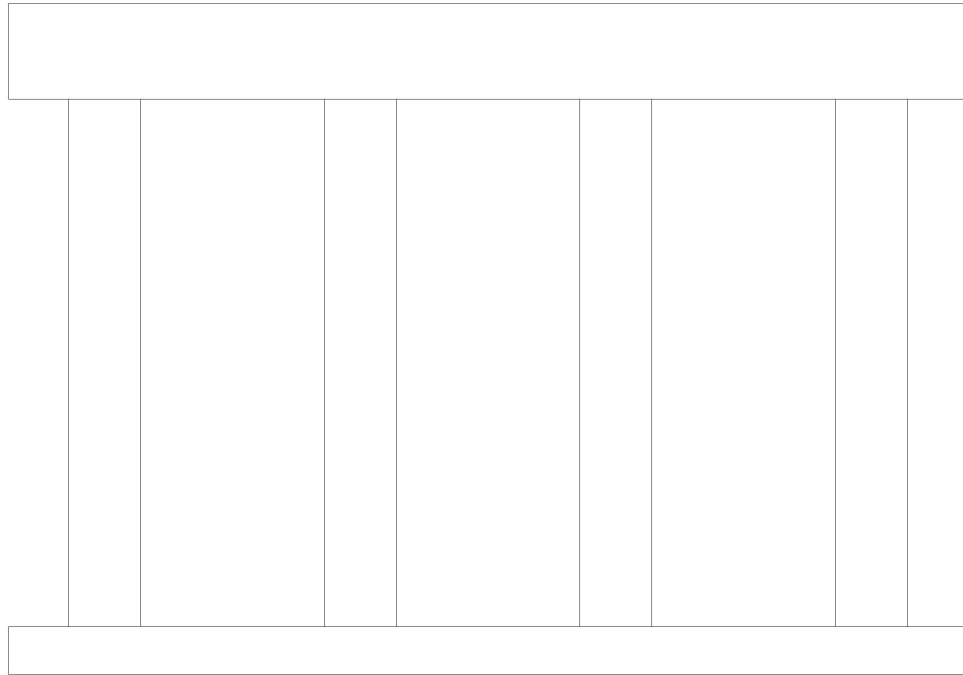
Bridge No: 960405

Drawn By: G.R.R.

Date: 10/09/2008

File Name: S0130001247

Bridge Inspection Field Sketch



Abutment #	2		
Cap - Beam Type (Wood or Steel)			
Cap Size	18ft Long	0.833ft Wide	0.98ft High
Left Overhang	1ft	Lt Cap/Beam Overhang	.750ft
Right Overhang	1ft	Rt Cap/Beam Overhang	.750ft
Sill - Sill			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	6' 0"		10"	9 3/4"	Vertical
2	Wood or Timber	Post and Sills	4' 0"		10"	9 3/4"	Vertical
3	Wood or Timber	Post and Sills	6' 0"		10'	9 3/4"	Vertical
4	Wood or Timber	Post and Sills			10"	9 3/4"	Vertical

VERIFIED 10/17/12 by KCI

Title		Description	
SUB 2		SUB AB 2	
Bridge No: 960405	Drawn By: G.R.R.	Date: 10/09/2008	File Name: S0130001248

Bridge Inspection Field Sketch



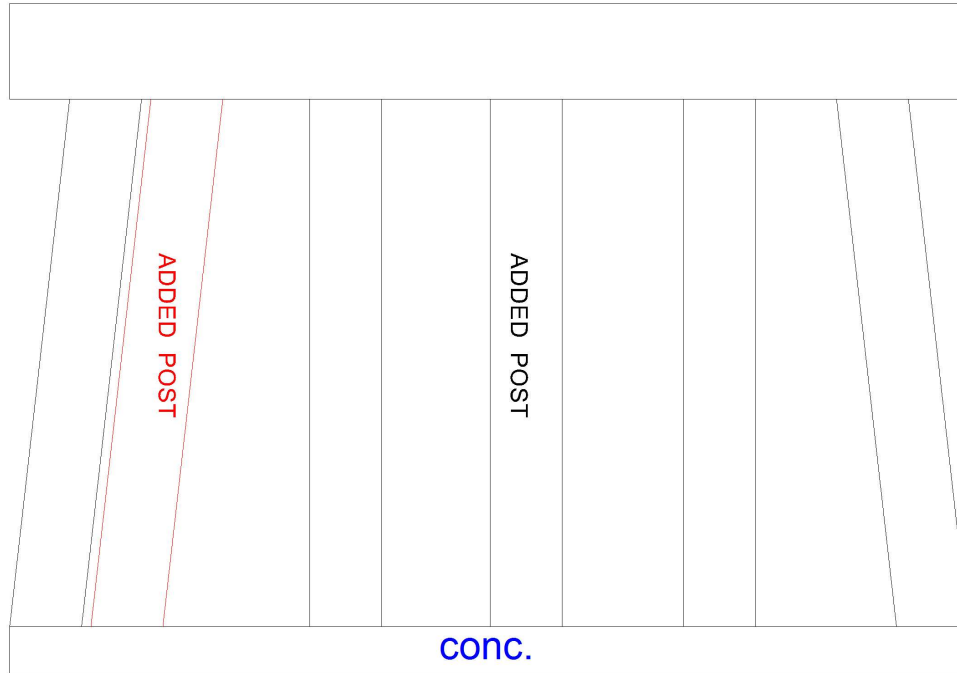
Bent #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	18.666ft Long	0.833ft Wide	0.98ft High
Left Overhang	1.5ft	Lt Cap/Beam Overhang	.750ft
Right Overhang	1.167ft	Rt Cap/Beam Overhang	.750ft
Sill Spread			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	5' 0"		12"		Batter Pile
2	Wood or Timber	Post and Sills	3' 0"		12"		Vertical
3	Wood or Timber	Post and Sills	3' 0"		12"		Vertical
4	Wood or Timber	Post and Sills	5' 0"		12"		Vertical
5	Wood or Timber	Post and Sills			12"		Batter Pile

VERIFIED 10/17/12 by KCI

Title SUB P 1		Description SUB PIER 1	
Bridge No: 960405	Drawn By: G.R.R.	Date: 10/09/2008	File Name: S0130001249

Bridge Inspection Field Sketch



Bent #	2		
Cap - Beam Type (Wood or Steel)			
Cap Size	18ft Long	0.833ft Wide	0.98ft High
Left Overhang	1ft	Lt Cap/Beam Overhang	.750ft
Right Overhang	1ft	Rt Cap/Beam Overhang	.750ft
Sill - Spread			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	12"		12"		Batter Pile
2	Wood or Timber	Post and Sills	4' 4"		12"		Vertical
3	Wood or Timber	Post and Sills	32"		12"		Vertical
4	Wood or Timber	Post and Sills	32"		10"	10"	Vertical
5	Wood or Timber	Post and Sills	5' 4"		12"		Vertical
6	Wood or Timber	Post and Sills			12"		Batter Pile

VERIFIED 10/17/12 by KCI

Title SUB P2		Description SUB PIER 2	
Bridge No: 960405	Drawn By: G.R.R.	Date: 10/09/2008	File Name: S0130001250



WEST APPROACH LOOKING EAST



POSTING SIGN AT SOUTHWEST CORNER OF BRIDGE



LOOKING DOWNSTREAM SOUTH



LOOKING UPSTREAM NORTH



BRIDGE RAIL (NORTH SHOWN)



EAST APPROACH LOOKING WEST



BEARING 1 AT END BENT 1 (OTHERS SIMILAR)



BENT 1 ELEVATION WITH TEMPORARY REPAIRS



UNDERSIDE OF SUPERSTRUCTURE, SPAN 1



ABUTMENT 1 ELEVATION WITH TEMPORARY REPAIRS



UNDERSIDE OF SUPERSTRUCTURE, SPAN 2



BENT 2 ELEVATION WITH TEMPORARY REPAIRS



FLOOR BEAM IN BAY 2, SPAN 1 (OTHERS SIMILAR)



UNDERSIDE OF SUPERSTRUCTURE, SPAN 3



ABUTMENT 2 ELEVATION



LOOKING DOWNSTREAM FROM BELOW THE BRIDGE



ANGLE BRACING IN SUPERSTRUCTURE OF SPAN 3



LOOKING UPSTREAM FROM BELOW THE BRIDGE



NORTH ELEVATION



SOUTH ELEVATION



ONE LANE BRIDGE SIGN AT NORTHEAST CORNER