



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **SHORED STRUCTURE**

Structure Safety Report

2 Year Complete Topside and Underwater Element Inspection

COUNTY: WILKES STRUCTURE NUMBER: 960403 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1302 MILE POST:

LOCATION: .4 MI.N.JCT.US421

FEATURE INTERSECTED: LITTLE CREEK

LATITUDE: 36° 11' 16.81" LONGITUDE: 81° 23' 47.7"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS(LOW WATER TYPE)

SUBSTRUCTURE: E.BTS:TIMBER CAPS/TIMBER POST & SILLS VAR. CTS.

1 @ 25'-7"

SPANS: 1 @ 25"-7

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

PRESENT CONDITION: Fair INSPECTION DATE: 10/08/2014

POSTED SV: 16 POSTED TTST: 21

OTHER SIGNS PRESENT:



LOOKING NORTH AT APPROACH ROADWAY

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
JOHN HOUSTON

SIGNATURE

ASSISTED BY KSH; MEC

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

BRIDGE: *960403* COUNTY: *Willies*DATE: *8/24/2011*

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	<i>T</i>	<i>DAJ 9/1/11</i>
S I & A ITEM 59 - SUPERSTRUCTURE	<i>4</i>	<i>DAJ</i>
S I & A ITEM 60 - SUBSTRUCTURE		
S I & A ITEM 64 OPERATING RATING		
HS <i>01</i> BY: <i>AN</i>		
S I & A ITEM 66 - INVENTORY RATING		
HS <i>01</i> BY: <i>AN</i>		

COMMENTS

steel plates added at beams 386.

RETAIN TEMP TMS 01/23/15

Span Element Report

Structure Number: 960403

Inspection Date: 10/08/2014

Span Number 1

Span Length 25.5833 Feet

Number of Beams/Girders: 8

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	463	0	463	0	0	463	3324
107		Steel Open Girder/Beam	200	0	137	63	0	200	3314
515	107	Steel Protective Coating	694	0	602	92	0	694	5603
228		Timber Pile	10	0	10	0	0	10	3344
235		Timber Pier Cap	42	0	42	0	0	42	3344
316		Other Bearings	16	16	0	0	0	0	3334
510		Wearing Surface	435	0	0	429	6	435	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: 960403

Inspection Date: 10/08/2014

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	31	Timber Deck	463	0	463	0	0	463	3324	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	435	0	0	429	6	435	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	25	0	17	8	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	55	0	45	10	0	55	5603	
☒ Beam	2	107	Steel Open Girder/Beam	25	0	20	5	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	92	0	88	4	0	92	5603	
☒ Beam	3	107	Steel Open Girder/Beam	25	0	8	17	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	55	0	35	20	0	55	5603	
☒ Beam	4	107	Steel Open Girder/Beam	25	0	20	5	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	92	0	80	12	0	92	5603	
☒ Beam	5	107	Steel Open Girder/Beam	25	0	21	4	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	100	0	88	12	0	100	5603	
☒ Beam	6	107	Steel Open Girder/Beam	25	0	20	5	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	100	0	90	10	0	100	5603	
☒ Beam	7	107	Steel Open Girder/Beam	25	0	18	7	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	100	0	86	14	0	100	5603	
☒ Beam	8	107	Steel Open Girder/Beam	25	0	13	12	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	100	0	90	10	0	100	5603	

Superstructure Element Defect Descriptions

Structure Number: 960403

Inspection Date: 10/08/2014

Span Number 1

Span 1	Deck	1	Component Name: Timber Deck									
Element: 31	Name	Timber Deck	Qty:	463	Lvl 2:	463	Lvl 3	0	Lvl 4	0	Maint. Qty	463
Defect Description:												

50 Square Feet of Decay/Section Loss: Affects less than 10% of the member section. SOFT ON ENDS TO 1/2".

413 Square Feet of Check/Shake: Penetrates 5% - 50% of the thickness of the member and not in a tension zone. RANDOM CHECKS.

Span 1	Wearing Surfaces		Component Name:		Asphalt Wearing Surface							
Element: 510	Name	Wearing Surface	Qty:	435	Lvl 2:	0	Lvl 3	429	Lvl 4	6	Maint. Qty	435
Defect Description:												

6 Square Feet MISSING AWS .Effectiveness (Wearing Surface): The wearing surface is no longer effective.

429 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.

Span 1	Beam 1	Component Name:				Plate Girder					
Element: 107	Name Steel Open Girder/Beam	Qty:	25	Lvl 2:	17	Lvl 3	8	Lvl 4	0	Maint. Qty	25
Defect Description:											

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. SECTION LOSS UP TO 1/16" TO FLANGE EDGES.

17 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

10 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

45 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 1	Beam 2	Component Name:				Plate Girder					
Element: 107	Name Steel Open Girder/Beam	Qty:	25	Lvl 2:	20	Lvl 3	5	Lvl 4	0	Maint. Qty	25
Defect Description:											

5 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. SECTION LOSS UP TO 1/16" TO FLANGE EDGES.

20 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

4 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

88 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 1	Beam	3	Component Name:				Plate Girder					
Element: 107	Name	Steel Open Girder/Beam	Qty:	25	Lvl 2:	8	Lvl 3	17	Lvl 4	0	Maint. Qty	25
Defect Description:												

17 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 REPAIRS TO BEAM 3, 1 IS MID BEAM EAST FACE WELDED PLATE 47" LONG x 4" HIGH x 1/4" THICKNESS. 2ND IS NORTH END EAST FACE 36" LONG x 4" HIGH x 1/4" THICKNESS.

8 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

20 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

35 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 1	Beam	4	Component Name:		Plate Girder							
Element: 107	Name	Steel Open Girder/Beam	Qty:	25	Lvl 2:	20	Lvl 3	5	Lvl 4	0	Maint. Qty	25
Defect Description:												

5 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. SECTION LOSS UP TO 1/16" TO FLANGE EDGES.

20 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

12 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

80 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 1	Beam	5	Component Name:				Plate Girder					
Element: 107	Name	Steel Open Girder/Beam	Qty:	25	Lvl 2:	21	Lvl 3	4	Lvl 4	0	Maint. Qty	25
Defect Description:												

4 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. SECTION LOSS UP TO 1/16" TO FLANGE EDGES.

21 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

12 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

88 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span	1	Beam	6	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	25	Lvl 2:	20	Lvl 3	5	Lvl 4	0	Maint. Qty	25
Defect Description:													

5 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. SECTION LOSS UP TO 1/16" TO FLANGE EDGES.

20 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

10 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

90 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span	1	Beam	7	Component Name:				Plate Girder					
Element:	107	Name	Steel Open Girder/Beam	Qty:	25	Lvl 2:	18	Lvl 3	7	Lvl 4	0	Maint. Qty	25
Defect Description:													

7 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. SECTION LOSS UP TO 1/16" TO FLANGE EDGES.

18 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

14 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

86 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 1	Beam 8	Component Name: Plate Girder				
Element: 107	Name Steel Open Girder/Beam	Qty: 25	Lvl 2: 13	Lvl 3: 12	Lvl 4: 0	Maint. Qty: 25
Defect Description:						

12 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. SECTION LOSS UP TO 1/16" TO FLANGE EDGES AND BOTTOM OF WEB.

13 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

10 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

90 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Substructure Detailed Element Quantities

Structure Number: 960403

Inspection Date: 10/08/2014

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
☒ Caps	1	235	Timber Pier Cap	21	0	21	0	0	21	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested

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
☒ Caps	1	235	Timber Pier Cap	21	0	21	0	0	21	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 960403

Inspection Date: 10/08/2014

End Bent 1

End Bent 1	Row 1	Caps	1							
Element: 235	Name	Timber Pier Cap	Qty:	21	Lvl 2:	21	Lvl 3	0	Lvl 4	0 Maint. Qty 21
Defect Description:										

4 Feet of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

17 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in a tension zone. RANDOM CRACKING.

End Bent 1	Row 1	Piles and Columns	1							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty 1
Defect Description:										

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 1	Row 1	Piles and Columns	2							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty 1
Defect Description:										

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 1	Row 1	Piles and Columns	3							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty 1
Defect Description:										

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 1	Row 1	Piles and Columns	4							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty 1
Defect Description:										

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 1	Row 1	Piles and Columns	5							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty 1
Defect Description:										

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 1	Row 1	Piles and Columns	6							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty 1
Defect Description:										

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 2	Row 1	Caps	1							
Element: 235	Name	Timber Pier Cap	Qty:	21	Lvl 2:	21	Lvl 3	0	Lvl 4	0 Maint. Qty 21
Defect Description:										

4 Feet of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

17 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in a tension zone. RANDOM CRACKING.

End Bent 2	Row 1	Piles and Columns	1							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty 1
Defect Description:										

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

Structure Number: 960403

Inspection Date: 10/08/2014

End Bent 2	Row 1	Piles and Columns	2
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Element: 228 Name Timber Pile Qty: 1 Lvl 2: 1 Lvl 3 0 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 2	Row 1	Piles and Columns	3
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Element: 228 Name Timber Pile Qty: 1 Lvl 2: 1 Lvl 3 0 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

End Bent 2	Row 1	Piles and Columns	4
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Element: 228 Name Timber Pile Qty: 1 Lvl 2: 1 Lvl 3 0 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Decay/Section Loss: Affects less than 10% of the member section. SOFT TO 1/4".

National Bridge and NC Inspection Items

Structure Number: 960403

Inspection Date: 10/08/2014

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	4
Item 72: Approach Roadway Alignment	0 - 9 , N	6

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	F	0	3376
Drainage System	G, F, P, or C	F	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Wingwall	G, F, P, or C			
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			
Response to Live Load	G, F, P, or C	7		
Estimated Remaining Life	0 - 100 Years	7		

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	12
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 960403

Inspection Date: 10/08/2014

Item	Presently Posted	Grade	Y	Maint Code	Qty.	0
Details	SV 16 TTST 21					

Item	Drainage System	Grade	F	Maint Code	3332	Qty.	0
Details	DEBRIS RESTICTING DRAINAGE.						

Item	Drift	Grade	G	Maint Code	3366	Qty.	0
Details	SCATTERED 3" IN DIAMETER DRIFT.						



WEARING SURFACE



DEBRIS AND VEGETATION EAST side



DEBRIS AND VEGETATION WEST SIDE



BEAMS SCALLING



LOOKING SOUTH AT APPROACH ROADWAY



LOOKING SOUTH



LOOKING WEST



LOOKING EAST



LOOKING NORTH



LOOKING NORTH AT APPROACH ROADWAY



LOOKING EAST AT BRIDGE



LOOKING WEST AT BRIDGE



ABUTMENT 1



ABUTMENT 2



BEAMS



ABUTMENT 1 EAST END



BEAM 3 MID EAST FACE



BEAM 3 NORTH END EAST FACE

Run Date: 12/15/2014

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	960403	SUFFICIENCY RATING =	22.66	
(8) STRUCTURE NUMBER(FEDERAL)	000000001930403		STATUS =	Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31013020				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	3		CLASSIFICATION	CODE	
(3) COUNTY CODE 193 (4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -	YES	
(6) FEATURE INTERSECTED - LITTLE CREEK			(104)HIGHWAY SYSTEM Is not on NHS	0	
(7) FACILITY CARRIED SR1302			(26) FUNCTIONAL CLASS - Local	09	
(9) LOCATION .4 MI.N.JCT.US421			(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0	
(11)MILEPOINT	0		(101)PARALLEL STRUCTURE - No Parallel Structure	N	
(16)LAT 36° 11' 16.81" (17)LONG 81° 23' 47.70"			(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 - Not on the National Network	0	
STRUCTURE TYPE AND MATERIAL			(20) TOLL On Free Road	3	
(43) STRUCTURE TYPE MAIN: Steel			(31) MAINTAIN - State Highway Agency	01	
TYPE - Stringer Mutlibeam or Girder	CODE 302		(22) OWNER - State Highway Agency	01	
(44) STRUCTURE TYPE APPR :			(37) HISTORICAL SIGNIFICANCE - Not Eligible	5	
TYPE -	CODE 000		CONDITION	CODE	
(45) NUMBER OF SPANS IN MAIN UNIT	1		(58) DECK	5	
(46) NUMBER OF APPROACH SPANS			(59) SUPERSTRUCTURE	4	
(107)DECK STRUCTURE TYPE - 8	CODE		(60) SUBSTRUCTURE	6	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(61) CHANNEL & CHANNEL PROTECTION	7	
(A) TYPE OF WEARING SURFACE -	CODE		(62) CULVERTS	N	
(B) TYPE OF MEMBRANE -	CODE		LOAD RATING AND POSTING	CODE	
(C) TYPE OF DECK PROTECTION -	CODE		(31) DESIGN LOAD Unknown	0	
AGE AND SERVICE			(63) OPERATING RATING METHOD - Load Factor	1	
(27) YEAR BUILT	1960		(64) OPERATING RATING - HS-1	1	
(106)YEAR RECONSTRUCTED			(65) INVENTORY RATING METHOD - Load Factor	1	
(42) TYPE OF SERVICE : ON - Highway			(66) INVENTORY RATING - HS-1	1	
UNDER - Waterway	CODE 15		(70) BRIDGE POSTING - Posting Required	0	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0		(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P	
(29) AVERAGE DAILY TRAFFIC	70		DESCRIPTION - Posted for Load		
(30) YEAR OF ADT 2000 (109) TRUCK ADT PCT	%		APPRAISAL	CODE	
(19) BYPASS OR DETOUR LENGTH	99 MI		(67) STRUCTURAL EVALUATION	3	
GEOMETRIC DATA			(68) DECK GEOMETRY	3	
(48) LENGTH OF MAXIMUM SPAN	24 FT		(69) UNDERCLEARANCES,VERTI & HORIZ	N	
(49) STRUCTURE LENGTH	26 FT		(71) WATERWAY ADEQUACY	4	
(50)CURB OR SIDEWALK: LEFT .5 FT RIGHT	.5 FT		(72) APPROACH ROADWAY ALIGNMENT	6	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	17 FT		(36) TRAFFIC SAFETY FEATURES	0000	
(52) DECK WIDTH OUT TO OUT	18.083 FT		(113)SCOUR CRITICAL BRIDGES	U	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	12 FT		PROPOSED IMPROVEMENTS	CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0		(75) TYPE OF WORK -	CODE	
(34) SKEW 25° (35) STRUCTURE FLARED	0		(76) LENGTH OF STRUCTURE IMPROVEMENT		
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT		(94) BRIDGE IMPROVEMENT COST		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	17 FT		(95) ROADWAY IMPROVEMENT COST		
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT		(96) TOTAL PROJECT COST		
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE		
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT		(114)FUTURE ADT 140 (115) YEAR FUTURE ADT	2025	
(56) MIN LAT UNDERCLEAR LT REF -	000 FT		INSPECTIONS		
NAVIGATION DATA			(90) INSPECTION DATE	10/08/2014	
(38) NAVIGATION CONTROL - No Navigational Control	CODE 0		(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE	
(111)PIER PROTECTION -	CODE		A) FRACTURE CRIT DETAIL - NO	A)	
(39) NAVIGATION VERTICAL CLEARANCE	0		B) UNDERWATER INSP - YES 24Mo	B) 10/08/2014	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT		C) OTHER SPECIAL INSP NO	C)	
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT		SCOUR		

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 12/15/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WILKES	11	3	960403	26	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1302	LITTLE CREEK

LOCATED :	BRIDGE NAME :	CITY :
.4 MI.N.JCT.US421		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	70 2000	LT 0 RT 0

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1960	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	UNDER :
			TAN	115	ON 2	0

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT 6 FT		1 FT

SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS(LOW WATER TYPE)
------------------	---

SUBSTRUCTURE :	E.BTS:TIMBER CAPS/TIMBER POST & SILLS VAR. CTS.
----------------	---

SPANS :	1 @ 25'-7
---------	-----------

BEAMS OR GIRDERS :	8 LINES 12 I-BEAMS @ 2'-4.25 CTS.
--------------------	-----------------------------------

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

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
17 FT	0 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	int bm 5	SV 16	21	08/30/2011

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 960403

County WILKES

Date:

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	1	MISSING AWS.	

Key



Priority Maintenance Item



Critical Finding Item

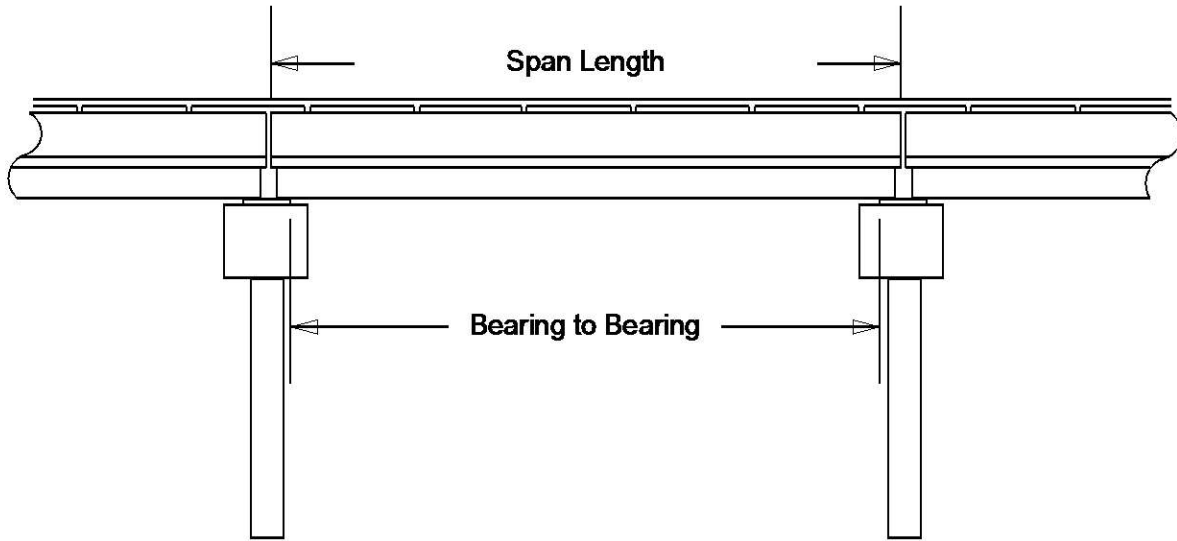


Priority Maintenance Level Not Determined

Structure Data Worksheet

Spans

County: WILKES Structure No: 960403 Date: Inspected By: JCH



Span No	Span Length	Bearing to Bearing	Comments
1	25' 7"	24' 3"	NBIS: 22.5'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 960403 County: WILKES Date: _____ By: JCH

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	0.5	TOP OF FF			
0.3	0.5	TOP OF FF			
0.3	2.1	TOP OF CAP			
0.31	5.9	FACE OF ABUTMENT	0.31	3.7	FACE OF ABUTMENT
1	5.6	WS WE			
6	5.5	BED			
13	5.6	WS WE			
18	4.1	SLOPE			
25.3	3.5	FACE OF ABUTMENT	25.3	3.4	FACE OF ABUTMENT
25.31	2.2	TOP OF CAP			
25.32	0.5	TOP OF FF			
25.6	0.5	TOP OF FF			
25.61	0	TOP OF RAIL			

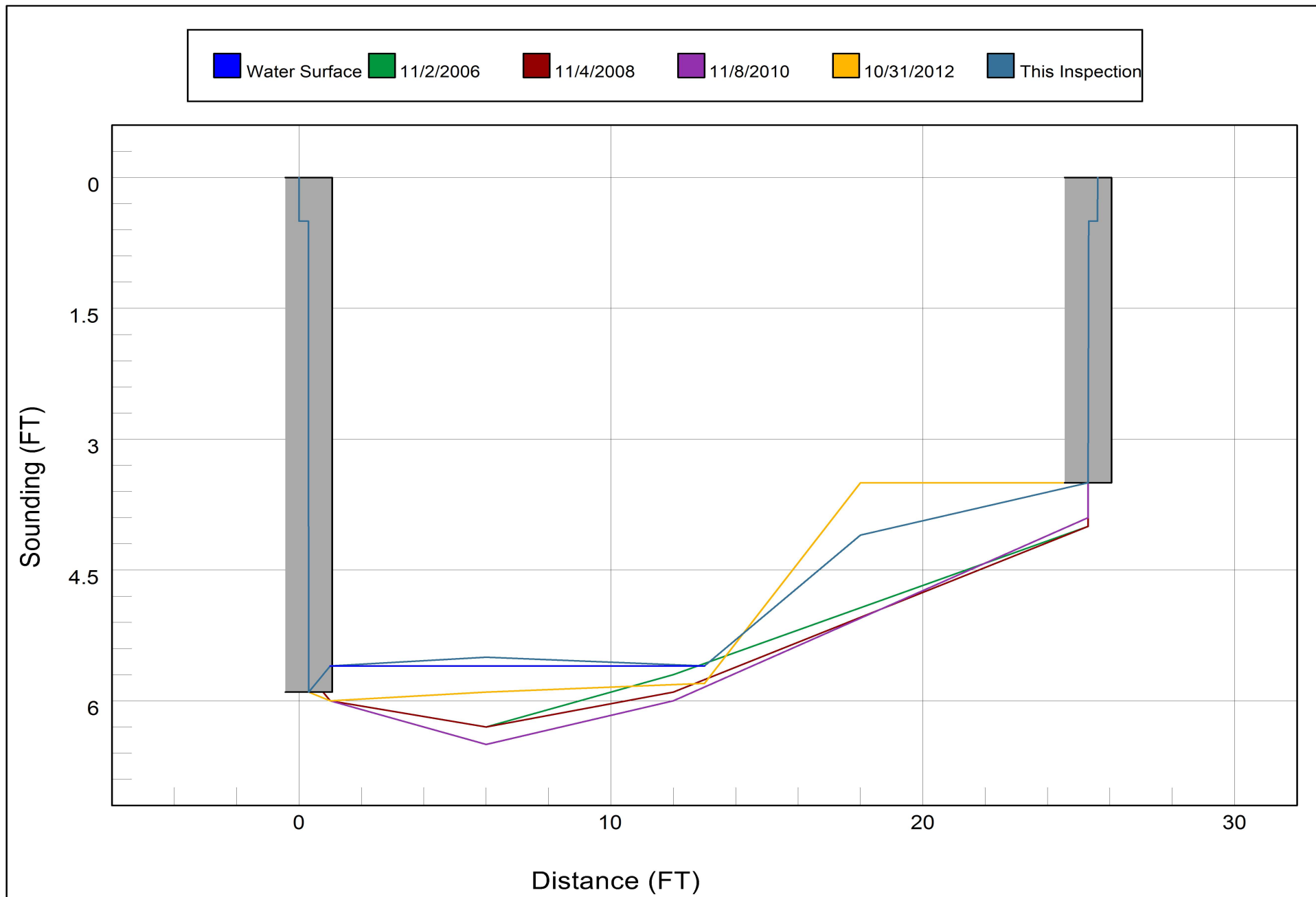
Bridge: 960403

County WILKES

Date:

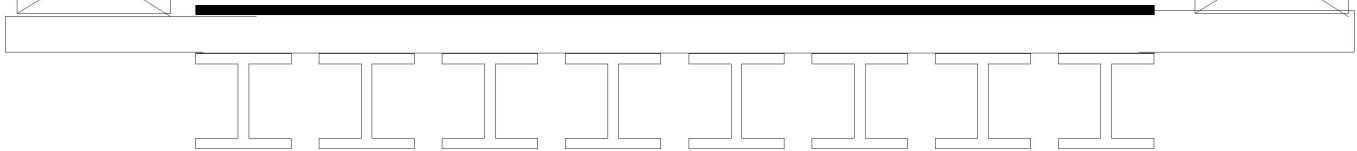
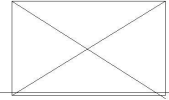
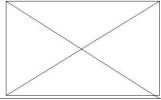
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



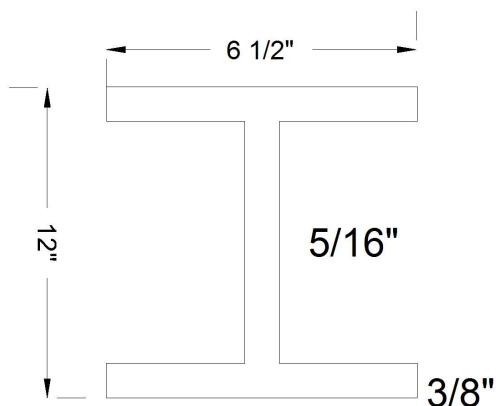
Bridge Inspection Field Sketch

Deck Width/Out to Out	18.083ft	Wearing Surface	0.083ft
Between Rails		Median Width	
Curb Height	0.417ft	Median Height	
Top Rail to Deck/Wearing Surface		Left Guardrail Width	
Clear Roadway	17.0ft	Right Guardrail Width	
Left Bridge Rail		Right Bridge Rail	

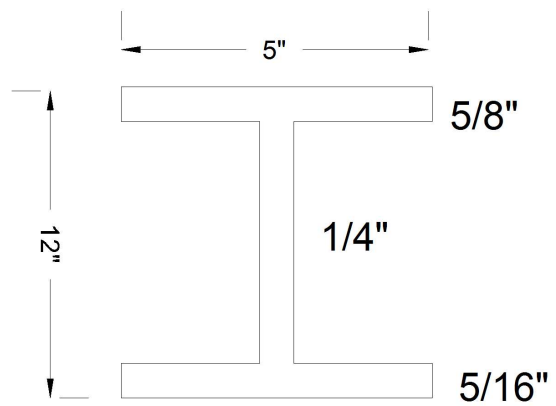


Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.833
Top of Rail to Bottom of Beam	2.167	Right Overhang	0.750

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.5ft	
2	Steel I Beam	2.417ft	
3	Steel I Beam	2.333ft	
4	Steel I Beam	2.375ft	
5	Steel I Beam	2.417ft	
6	Steel I Beam	2.250ft	
7	Steel I Beam	2.417ft	
8	Steel I Beam		



BM. 1, 3, 5 - 8



BM. 2 & 4 S-SHAPE

Title

TS

Description

SUPER

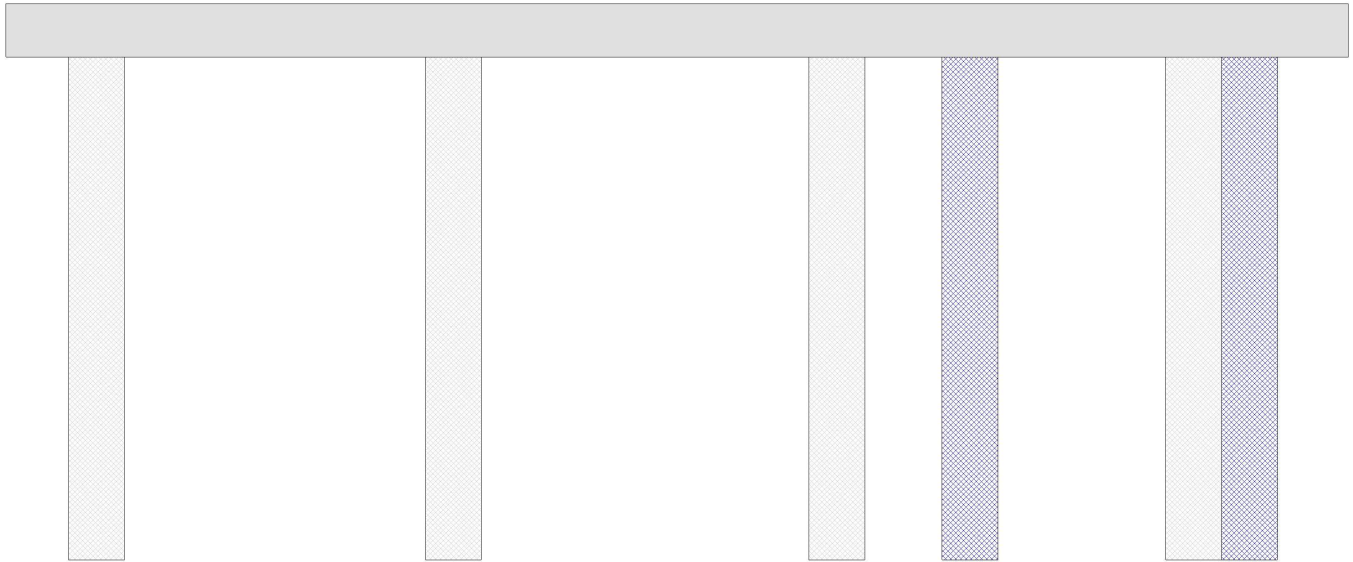
Bridge No: 960403

Drawn By: JCH

Date: 10/08/2014

File Name: S0126001169

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.				
20.083 ft.	.854 ft.	.833 ft.	1.417 ft.	1.417 ft.	1.167 ft.	.000 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	5.583 ft.	0.875 ft.	0.833 ft.		Vertical	No	No	No	No
2	Timber	6 ft.	0.875 ft.	0.833 ft.		Vertical	No	No	No	No
3	Timber	2.083 ft.	0.875 ft.	0.833 ft.		Vertical	No	No	No	No
4	Timber	3.5 ft.	0.875 ft.	0.833 ft.		Vertical	No	Yes	No	No
5	Timber	0.875 ft.	0.875 ft.	0.833 ft.		Vertical	No	No	No	No
6	Timber		0.875 ft.	0.833 ft.		Vertical	No	Yes	No	No
Bent/Abutment #: 1			Similar Bents:							

Title			Description		
SUB			SUB ABUT 1		
Bridge No: 960403	Drawn By: JCH	Date: 10/08/2014	File Name: S0130001320		

Bridge Inspection Field Sketch

SR 1302



Roadway	12ft Wide	2 Unpaved Lanes	Looking North
Left Shoulder	1ft Wide		1ft Unpaved
Right Shoulder	1ft Wide		1ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED 10/08/14 JCH

Title

APRW

Description

APPROACH ROADWAY

Bridge No: 960403

Drawn By: G.R.R.

Date: 11/04/2008

File Name: S0130001321

[illegible]