



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 960029 INSPECTION CYCLE 0 YRS
SR1001 (OAKWOODS RD)
 ROUTE SR1001 ACROSS CUB CREEK M.P. 0
.15 MILES SOUTH OF JUNCTION WITH NC18,NC268
 LOCATION .15 MI.S.JCT.NC18,NC268

SUPERSTRUCTURE PRESTRESSED CONC.CHANNELS (STD.BMD-13)

SUBSTRUCTURE E.BTS.&INT.BTS:PPC CAPS/TIMBER PILES @ 5'-8 CENTERS

1 @ 25'; 1 @ 30'-1"; 1 @ 25'-1"

SPANS 1 @ 25'-4"; 1 @ 30'; 1 @ 25'-4"

LONGITUDE 81° 8' 33.54"

LATITUDE 36° 8' 55.76"

36° 8' 55.77"

INSPECTION DATE 04/08/2013

PRESENT CONDITION POOR

PRESENT POSTING Y SV 22 TTST 26

PROPOSED POSTING _____

OTHER SIGNS PRESENT FOUR (4) DELINEATORS



SOUTH APPROACH LOOKING NORTH

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	_____

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

BRIDGE: *960029*

COUNTY: *Wilkes*

DATE: *9/19/07*

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</i>
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	<i>4</i>	<i>DAJ</i>
S I & A ITEM 64 OPERATING RATING		
HS <i>0.0</i> BY: <i>AK</i>		
S I & A ITEM 66 - INVENTORY RATING		
HS <i>0.0</i> BY: <i>AK</i>		

AK 6/24/09

COMMENTS

Pile #2 @ pair #1, and pile #1 @ pair #2 repaired.

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	960029		SUFFICIENCY RATING =			8.89
(8) STRUCTURE NUMBER(FEDERAL)		000000001930029		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31010010					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3		CLASSIFICATION		CODE	
(3) COUNTY CODE 193 (4) PLACE CODE		0		(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - CUB CREEK				(104)HIGHWAY SYSTEM Is not on NHS			0
(7) FACILITY CARRIED SR1001				(26) FUNCTIONAL CLASS - Local			09
(9) LOCATION .15 MI.S.JCT.NC18,NC268				(100)STRAHNET HIGHWAY - Not a STRAHNET Route			0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - No Parallel Structure			N
(16)LAT 36° 8' 55.76" (17)LONG 81° 8' 33.54"				(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
				(20) TOLL On Free Road			3
STRUCTURE TYPE AND MATERIAL				(31) MAINTAIN - State Highway Agency			01
(43) STRUCTURE TYPE MAIN: Prestressed Concrete				(22) OWNER - State Highway Agency			01
TYPE - Channel Beam		CODE 522		(37) HISTORICAL SIGNIFICANCE - Not Eligible			5
(44) STRUCTURE TYPE APPR :				CONDITION		CODE	
TYPE -		CODE 000		(58) DECK			6
(45) NUMBER OF SPANS IN MAIN UNIT		3		(59) SUPERSTRUCTURE			4
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE			4
(107)DECK STRUCTURE TYPE - 2		CODE		(61) CHANNEL & CHANNEL PROTECTION			6
(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 Unknown			0
(C) TYPE OF DECK PROTECTION -		CODE		(63) OPERATING RATING METHOD - Allowable Stress			2
				(64) OPERATING RATING - HS-1			1
				(65) INVENTORY RATING METHOD - Allowable Stress			2
				(66) INVENTORY RATING - HS-1			1
				(70) BRIDGE POSTING - Posting Required			1
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P
				DESCRIPTION - Posted for Load			
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT		1969		(67) STRUCTURAL EVALUATION			3
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY			2
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ			N
UNDER - Waterway		CODE 15		(71) WATERWAY ADEQUACY			7
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC		5700		(36) TRAFFIC SAFETY FEATURES			0000
(30) YEAR OF ADT 2010 (109) TRUCK ADT PCT		6%		(113)SCOUR CRITICAL BRIDGES			U
(19) BYPASS OR DETOUR LENGTH		2 MI		PROPOSED IMPROVEMENTS		CODE	
GEOMETRIC DATA				(75) TYPE OF WORK -			
(48) LENGTH OF MAXIMUM SPAN		29 FT		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH		81 FT		(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT .4 FT RIGHT .4 FT				(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		29.58 FT		(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT		31.083 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		24 FT		(114)FUTURE ADT 11400 (115) YEAR FUTURE ADT 2025			
(33) BRIDGE MEDIAN - No Median		CODE 0		INSPECTIONS			
(34) SKEW 0° (35) STRUCTURE FLARED		0		(90) INSPECTION DATE			04/08/2013
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		29.58 FT		A) FRACTURE CRIT DETAIL - NO			A)
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		B) UNDERWATER INSP - NO			B)
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		C) OTHER SPECIAL INSP NO			C)
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		SCOUR			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT					
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: 05/07/2013

COUNTY : WILKES DIVISION : 11 DISTRICT : 3 STRUCTURE NUMBER : 960029 LENGTH : 81 FEET

ROUTE CARRIED : SR1001 FEATURE INTERSECTED : CUB CREEK

LOCATED : .15 MI.S.JCT.NC18,NC268 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 5700 2010 RAIL TYPE : LT 233 RT 233

BUILT : 1969 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Unknown

REHAB : BY : PROJ : ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER 0

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 13 FT WATER DEPTH : 1 FT

SUPERSTRUCTURE : PRESTRESSED CONC.CHANNELS (STD.BMD-13)

SUBSTRUCTURE : E.BTS.&INT.BTS:PPC CAPS/TIMBER PILES @ 5'-8 CENTERS

SPANS : 1 @ 25', 1 @ 30'-1, 1 @ 25'-1"

BEAMS OR GIRDERS : 12 PPC CHANNEL SECTIONS

FLOOR : PPC.CH/2 AWS ENCROACHMENT : 1 LN. UTILITY DECK (OUT TO OUT) : 31.083 FT

CLEAR ROADWAY : 29.58 FT BETWEEN RAILS : 30.25 FT SIDEWALK OR CURB : LT .4 FT RT .4 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : Chan (Damaged) POSTED : SV 20 TTST 27 DATE 05/06/2013

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection - Contract
 BRIDGE NO. 960029 COUNTY WILKES ROUTE SR1001 OVER CUB CREEK
 STRUCTURE TYPE PRESTRESSED CONC.CHANNELS (STD.BMD-13)
 ROUTE ORIENTATION S - N SPANS 1 @ 25'-4"; 1 @ 30'; 1 @ 25'-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		F		45. CHANNEL & CHANNEL PROT.	a. WATERWAY	F
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58					b. ALIGNMENT	G
a. CONCRETE		3	F		c. SCOUR	F
b. TIMBER					d. SLOPE PROT., RIP-RAP, DIKES, ETC.	F
c. STEEL PLANK				50. APPROACH ROADWAY CONDITION		G
d. OPEN GRID				51. APPROACH SLABS		
3. RAILING				52. PAINT SYSTEM CODE		
a. CONCRETE				53. UTILITIES		G
b. TIMBER				54. RESPONSE TO LIVE LOAD		G
c. ALUMINUM				55. ESTIMATED REMAINING LIFE		5
d. STEEL		F				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS		F				
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED		NO
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				61. PROMPT-ACTION NOTICE ISSUED		YES
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)		0
d. STANDARD JOINTS		2	F	65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		0
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	6
10. LONGITUDINAL BEAMS OR GIRDERS		P		b. SUPERSTRUCTURE	ITEM 59	4
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	6
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	6
13. END DIAP'S, CURTAIN WALLS, & CONN'S		F		71. SI&A FIELD APPRAISAL RATINGS		
14. FLOOR BEAMS AND CONNECTIONS				a. WATERWAY ADAQUACY		7
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				b. APPR. RDWY. ALIGNMENT		8
16. DRAINAGE SYSTEM (ON STRUCTURE)		F				
17. MOVABLE SPAN MACHINERY				72. FIELD SCOUR EVALUATION		U
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				USE OF INSP. ACCESSIBILITY EQUIPMENT		
35. TIM SUB STR.		a. ABUT. & INT. BENT CAPS & RISERS		SNOOPER (CODE S, 4, OR N)		
		b. PILES, POST, SILLS, & BRACING		F	0	HRS
		c. BULKHEADS, WING'S, & TIE BACKS		F	LADDER	
						YES
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)		F				
40. FENDER SYSTEMS				80. INSPECTED BY:		
41. DRIFT		G		81. REVIEWED BY:		

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader MICHAEL T. MILLS			
Assisted By TDG			
Item No.	Grade		
1	F	(WEARING SURFACE) SPAN 1 NORTHBOUND LANE, FULL LENGTH LONGITUDINAL CRACK (UP TO 1/16IN WIDE) (SIMILAR SPAN 2,3) SOUTHBOUND LANE ASPHALT WEARING SURFACE AT BENT 2, TRANSVERSE CRACK (12FT X UP TO 1/8IN WIDE) (SIMILAR AT BENT 1)	
3d	F	(STEEL RAILING) LEFT BARRIER RAIL AT END BENT 1, SPALL (10IN X 12IN X 4IN DEEP)	
4	F	(CURBS, WHEELGUARD, PARAPETS) END BENT 1 RIGHT PARAPET, SPALL AT RAIL CONNECTION AND END SPAN 1 RIGHT PARAPET, SPALL (30IN X 8IN X 3IN DEEP) WITH EXPOSED RUSTED REBAR AT RAIL POST 5 SPAN 1 RIGHT PARAPET, FOUR (4) FULL WIDTH HAIRLINE CRACKS IN PARAPET AT RAIL POST 5 SPAN 2 RIGHT PARAPET, FAILED REPAIR AT RAIL POST 2 CONNECTION SPAN 3 RIGHT PARAPET, PREVIOUS REPAIRED SPALLS AT RAIL POST 4,5 SPAN 2 LEFT PARAPET, SPALL (30IN X 9IN X 2-1/2IN DEEP) WITH EXPOSED RUSTED REBAR AT RAIL POST 3 SPAN 2 LEFT PARAPET, SPALL (38IN X 9IN X 2-3/4IN DEEP) WITH EXPOSED RUSTED REBAR BENT 1 LEFT PARAPET, SPALL (36IN X 10IN X 4IN DEEP) WITH EXPOSED RUSTED REBAR	
7	F	(DECK DEBRIS) DEBRIS ACCUMULATION ALONG BOTH PARAPETS CLOGGING SCUPPER DRAINS	
10	P	(LONGITUDINAL BEAMS) (PM) END BENT 1 BEAM 1 LEG 2 BEARING, SPALL (12IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND (PM) BENT 1 BEAM 1 LEG 2, SPALL/DELAMINATION (18IN X 8IN) WITH EXPOSED STRAND (PM) SPAN 2 BEAM 9 LEG 2 MID SPAN, SPALL (9-1/2FT) WITH EXPOSED STRAND (PM) BENT 1 SPAN 2 BEAM 1 LEG 2, SPALL (9FT X 2-1/2IN X 5IN) WITH EXPOSED STRAND (PM) SPAN 2 BEAM 1 LEG 2 10FT FROM BENT 2, SPALL (10FT X 2-1/2IN X 1IN) WITH FAILED REPAIR (PM) BENT 2 SPAN 2 BEAM 11 LEG 2 BEARING, SPALL (2FT X 2-1/2IN X 2IN) WITH EXPOSED STRAND (PM) END BENT 2 BEAM 1 LEG 1 BEARING, SPALL (7IN X 6IN X 2-1/2IN) 1IN BEARING REMAINING (PM) END BENT 2 BEAM 11 LEG 1 BEARING, SPALL (9IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND (PM) SPAN 3 BEAM 12 LEG 1 6FT FROM END BENT 2, SPALL (4FT X 2-1/2IN X 1IN) WITH EXPOSED STRAND SPAN 1 BEAM 1 NEAR END BENT 1, TWO (2) EXPOSED RUSTED REBAR (8IN) SPAN 1 BENT 1 BEAM 3 LEG 2, SPALL (10IN X 9IN X 1/2IN) WITH EXPOSED STRAND (SIMILAR BEAM 7,9) SPAN 2 BEAM 10, TEMPORARY REPAIR TO BEAMS SPAN 2 BENT 2 BEAM 5 LEG 1, FAILED SPALL REPAIR AT BEARING (5IN X 2IN X 1/2IN) (SIMILAR BEAM 6,7)	

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
State of North Carolina			
Dept. of Transportation			
Division of Highways			
Team Leader MICHAEL T. MILLS			
Assisted By TDG			
Item No.	Grade		
10A	NO	(CURVED GIRDERS) NO CURVED GIRDERS	
13	F	(END DIAPS, CURTAIN WALLS) END BENT 1 END DIAPHRAGM BAY 2, SPALL WITH EXPOSED RUSTED REBAR (1SF) (SIMILAR BAY 3,5,8,9,10,11) SPAN 2 BENT 1 BAY 5 END DIAPHRAGM, EXPOSED RUSTED REBAR (SIMILAR BAY 7,8,9)	
16	F	(DRAINAGE SYSTEM) SPAN 1 RIGHT SHOULDER, DEBRIS ACCUMULATION WITH 1 CLOGGED SCUPPER DRAIN SPAN 2 RIGHT SHOULDER, THREE (3) CLOGGED SCUPPER DRAINS AND DEBRIS ACCUMULATION SPAN 3 RIGHT SHOULDER, ONE (1) CLOGGED SCUPPER DRAIN SPAN 2 LEFT SHOULDER, ONE (1) CLOGGED SCUPPER DRAIN WITH DEBRIS ACCUMULATION	
35b	F	(TIMBER POSTS, PILES, SILLS) END BENT 1 PILES, CHECKS THROUGHOUT END BENT 1 PILE 6 CONNECTION PLATES, FLAKING STEEL (SIMILAR THROUGHOUT) BENT 1 PILE 1 AT TOP, CHECK (1/2IN) BENT 2 PILES AND BRACING, CHECKS THROUGHOUT	
35c	F	(TIMBER BULKHEADS) (PM) END BENT 1 BULKHEAD, GAPS IN BOARDS WITH BACKFILL LOSS (20LF) (PM) SOUTHWEST WINGWALL, DECAY (80%) WITH BACKFILL LOSS (36SF) END BENT 1 BULKHEAD BAY 5, SIX (6) DECAYED AREAS (8IN DIAMETER)	
36a	F	(CONCRETE ABUTS, BENTS, CAPS) SPAN 1 BENT 1 CAP UNDER BEAM 4 BEARING, SPALL (10IN X 5IN X 1IN) (SIMILAR SEVEN (7) LOCATIONS) (SIMILAR FOUR (4) LOCATIONS ON SPAN 2 SIDE) BENT 2 CAP SOUTH FACE UNDER BEAM 5, DELAMINATION (18IN X 7IN) (SIMILAR BEAM 6) BENT 2 CAP NORTH FACE AT BEAM 7, DELAMINATION (4FT X 16IN) BENT 2 CAP NORTH FACE AT BEAM 5, SPALL/DELAMINATION (7FT X 16IN)	
39	F	(SLOPE PROTECTION) END BENT 2 BANK AT CORRUGATED METAL PIPE OUTLET, EROSION (5FT X 20FT X 4FT DEEP) SOUTH APPROACH LEFT SHOULDER, LOSS OF BACKFILL (6IN DIAMETER X 8IN DEEP) WITH SLOPE EROSION (18IN X 18IN X 24IN DEEP) SOUTH APPROACH LEFT SHOULDER BACKFILL LOSS (6FT) WITH SLOPE EROSION (18IN X 18IN X 24IN DEEP) SOUTH APPROACH RIGHT SHOULDER, SLOPE EROSION BEHIND WINGWALL (2FT X 6FT X 1FT DEEP)	
41	G	(DRIFT) BENT 1, DRIFT (30CF)	
45c	F	(SCOUR) SOUTHEAST BANK 30FT FROM BRIDGE, BANK SCOUR WITH 3FT VERTICAL SLOPES STREAMBED AT BENT 1, SCOUR HOLE (10FT X 15FT X 3FT DEEP)	

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 MICHAEL T. MILLS			
Assisted By TDG			
Item No.	Grade		
50	G	(APPROACH ROADWAY) SOUTH APPROACH ASPHALT WEARING SURFACE, MULTIPLE PARTIAL TO FULL WIDTH TRANSVERSE CRACKS (UP TO 1/8IN WIDE) SOUTH APPROACH RIGHT SHOULDER, IMPACT DAMAGE TO DELINEATOR NORTH APPROACH NORTHBOUND LANE, BROKEN AND DEPRESSED ASPHALT (50FT X 4FT WIDE) WITH FULL WIDTH TRANSVERSE CRACK	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 960029

County WILKES

Date: 04/08/2013

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3306	Maintain Concrete Superstructure Components	SF	19 TSE 6/12/13	BENT 1 SPAN 2 BEAM 1 LEG 2, SPALL (9FT X 2-1/2IN X 5IN) WITH EXPOSED STRAND SPAN 2 BEAM 1 LEG 2 10FT FROM BENT 2, SPALL (10FT X 2-1/2IN X 1IN) WITH FAILED REPAIR	
 3306	Maintain Concrete Superstructure Components	SF	A TSE	SPAN 3 BEAM 12 LEG 1 6FT FROM END BENT 2, SPALL (4FT X 2-1/2IN X 1IN) WITH EXPOSED STRAND	
 3306	Maintain Concrete Superstructure Components	SF	1	END BENT 2 BEAM 11 LEG 1 BEARING, SPALL (9IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND	
 3306	Maintain Concrete Superstructure Components	SF	1	END BENT 2 BEAM 1 LEG 1 BEARING, SPALL (7IN X 6IN X 2-1/2IN) 1IN BEARING REMAINING	
 3306	Maintain Concrete Superstructure Components	SF	2	BENT 2 SPAN 2 BEAM 11 LEG 2 BEARING, SPALL (2FT X 2-1/2IN X 2IN) WITH EXPOSED STRAND	
 3306	Maintain Concrete Superstructure Components	SF	10	SPAN 2 BEAM 9 LEG 2 MID SPAN, SPALL (9-1/2FT) WITH EXPOSED STRAND	
 3306	Maintain Concrete Superstructure Components	SF	2	SPAN 1 BENT 1 BEAM 1 LEG 2, SPALL/DELAMINATION (18IN X 8IN) WITH EXPOSED STRAND	
 3306	Maintain Concrete Superstructure Components	SF	1	END BENT 1 BEAM 1 LEG 2 BEARING, SPALL (12IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND	
 3344	Repair / Replace Timber Substructure Components	LF	20	END BENT 1 BULKHEAD, GAPS IN BOARDS WITH BACKFILL LOSS (20LF)	
 3344	Repair / Replace Timber Substructure Components	LF	7	SOUTHWEST WINGWALL, DECAY (80%) WITH BACKFILL LOSS (36SF)	
3306	Maintain Concrete Superstructure Components	SF	40	SPALLS ON BEAMS AND END DIAPHRAGMS	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 960029

County WILKES

Date: 04/08/2013

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3326	Maintain Concrete Deck	SF	20	SPALLS IN BACKSIDE OF PARAPETS	
3348	Maintain Concrete Substructure Components	LF	20	SPALLS IN CAP	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960029 County WILKES

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	19 SF
Location:		
Beams and Girders	Bent/Span No. 2	BEAMS
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
BENT 1 SPAN 2 BEAM 1 LEG 2, SPALL (9FT X 2-1/2IN X 5IN) WITH EXPOSED STRAND SPAN 2 BEAM 1 LEG 2 10FT FROM BENT 2, SPALL (10FT X 2-1/2IN X 1IN) WITH FAILED REPAIR		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Beams and Girders	Bent/Span No. 3	BEAM
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
SPAN 3 BEAM 12 LEG 1 6FT FROM END BENT 2, SPALL (4FT X 2-1/2IN X 1IN) WITH EXPOSED STRAND		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960029 County WILKES

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Beams and Girders	Bent/Span No. 3	BEAM
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
END BENT 2 BEAM 11 LEG 1 BEARING, SPALL (9IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Beams and Girders	Bent/Span No. 3	BEARING
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
END BENT 2 BEAM 1 LEG 1 BEARING, SPALL (7IN X 6IN X 2-1/2IN) 1IN BEARING REMAINING		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960029 County WILKES

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Beams and Girders Bent/Span No. 2 BEARING		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification Received
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
BENT 2 SPAN 2 BEAM 11 LEG 2 BEARING, SPALL (2FT X 2-1/2IN X 2IN) WITH EXPOSED STRAND		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	10 SF
Location:		
Beams and Girders Bent/Span No. 2 BEAM		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification Received
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
SPAN 2 BEAM 9 LEG 2 MID SPAN, SPALL (9-1/2FT) WITH EXPOSED STRAND		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960029 County WILKES

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
SPAN 1 BENT 1 BEAM 1 LEG 2, SPALL/DELAMINATION (18IN X 8IN) WITH EXPOSED STRAND		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
END BENT 1 BEAM 1 LEG 2 BEARING, SPALL (12IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 960029 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	20 LF
Location:		
Abutment Substructure	Bent/Span No. 1	BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
END BENT 1 BULKHEAD, GAPS IN BOARDS WITH BACKFILL LOSS (20LF)		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	7 LF
Location:		
Abutment Substructure	Bent/Span No. 1	WINGWALL
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/08/2013	MICHAEL T. MILLS	TOMMY GRAHAM
Details		
SOUTHWEST WINGWALL, DECAY (80%) WITH BACKFILL LOSS (36SF)		



(PM) END BENT 1 BULKHEAD, GAPS IN BOARDS WITH BACKFILL LOSS (20LF)



(PM) END BENT 1 BEAM 1 LEG 2 BEARING, SPALL (12IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND



(PM) SOUTHWEST WINGWALL, DECAY (80%) WITH BACKFILL LOSS (36SF)



(PM) BENT 1 BEAM 1 LEG 2, SPALL/DELAMINATION (18IN X 8IN) WITH EXPOSED STRAND



(PM) SPAN 2 BEAM 9 LEG 2 MID SPAN, SPALL (9-1/2FT) WITH EXPOSED STRAND



(PM) BENT 1 SPAN 2 BEAM 1 LEG 2, SPALL (9FT X 2-1/2IN X 5IN) WITH EXPOSED STRAND



(PM) SPAN 2 BEAM 1 LEG 2 10FT FROM BENT 2, SPALL (10FT X 2-1/2IN X 1IN) WITH FAILED REPAIR



(PM) BENT 2 SPAN 2 BEAM 11 LEG 2 BEARING, SPALL (2FT X 2-1/2IN X 2IN) WITH EXPOSED STRAND



(PM) END BENT 2 BEAM 1 LEG 1 BEARING, SPALL (7IN X 6IN X 2-1/2IN) 1IN BEARING REMAINING



(PM) END BENT 2 BEAM 11 LEG 1 BEARING, SPALL (9IN X 2-1/2IN X 2IN) WITH EXPOSED STRAND



(PM) SPAN 3 BEAM 12 LEG 1 6FT FROM END BENT 2, SPALL (4FT X 2-1/2IN X 1IN) WITH EXPOSED STRAND



END BENT 1 BULKHEAD BAY 5, SIX (6) DECAYED AREAS (8IN DIAMETER)



END BENT 1 PILES, CHECKS THROUGHOUT



END BENT 1 PILE 6 CONNECTION PLATES, FLAKING STEEL



END BENT 1 END DIAPHRAGM BAY 2, SPALL WITH EXPOSED RUSTED REBAR (1SF)



SPAN 1 BEAM 1 NEAR END BENT 1, TWO (2) EXPOSED RUSTED REBAR (8IN)



BENT 1 PILE 1 AT TOP, CHECK (1/2IN)



SPAN 1 BENT 1 CAP UNDER BEAM 4 BEARING, SPALL (10IN X 5IN X 1IN)



SPAN 1 BENT 1 BEAM 3 LEG 2, SPALL (10IN X 9IN X 1/2IN) WITH EXPOSED RUSTED REBAR



BENT 1, DRIFT (30CF)



SPAN 2 BEAM 10, TEMPORARY REPAIR TO BEAM



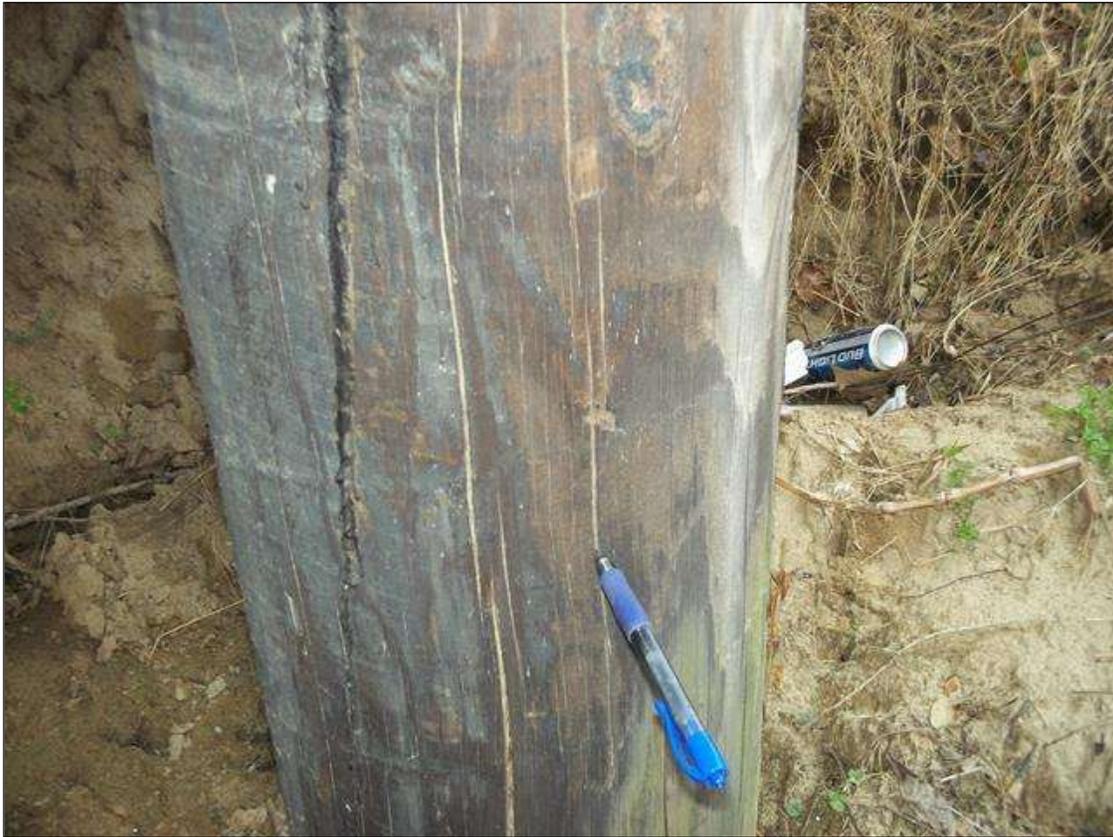
SPAN 2 BENT 1 BAY 5 END DIAPHRAGM, EXPOSED RUSTED REBAR



BENT 2 CAP SOUTH FACE UNDER BEAM 5, DELAMINATION (18IN X 7IN) (SIMILAR BEAM 6)



SPAN 2 BENT 2 BEAM 5 LEG 1, FAILED SPALL REPAIR AT BEARING (5IN X 2IN X 1/2IN) (SIMILAR BEAM 6,7)



BENT 2 PILES AND BRACING, CHECKS THROUGHOUT



BENT 2 CAP NORTH FACE AT BEAM 7, DELAMINATION (4FT X 16IN)



BENT 2 CAP NORTH FACE AT BEAM 5, SPALL/DELAMINATION (7FT X 16IN)



END BENT 2 BANK AT CORRUGATED METAL PIPE OUTLET, EROSION (5FT X 20FT X 4FT DEEP)



SOUTHEAST BANK 30FT FROM BRIDGE, BANK SCOUR WITH 3FT VERTICAL SLOPES



SOUTH APPROACH ASPHALT WEARING SURFACE, MULTIPLE PARTIAL TO FULL WIDTH TRANSVERSE CRACKS (UP TO 1/8IN WIDE)



SOUTH APPROACH RIGHT SHOULDER, IMPACT DAMAGE TO DELINEATOR



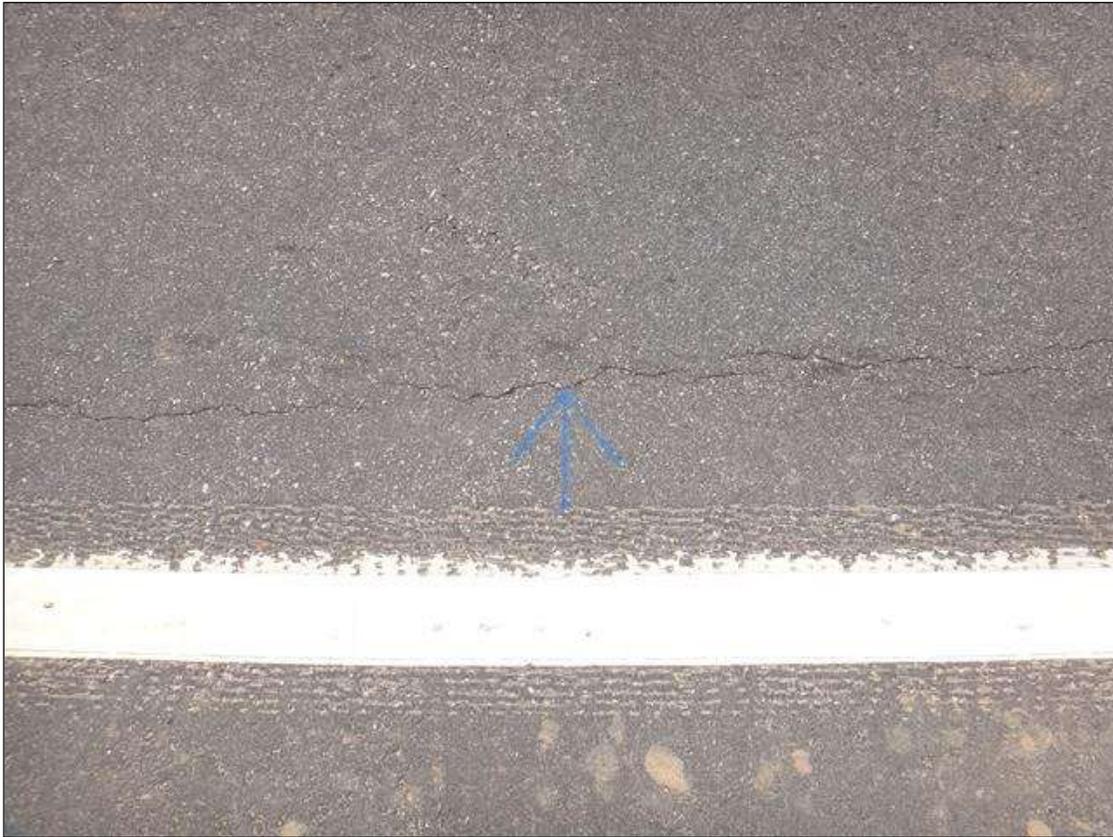
SOUTH APPROACH RIGHT SHOULDER, SLOPE EROSION BEHIND WINGWALL (2FT X 6FT X 1FT DEEP)



END BENT 1 RIGHT PARAPET, SPALL AT RAIL CONNECTION AND END



SPAN 1 RIGHT SHOULDER, DEBRIS ACCUMULATION WITH 1 CLOGGED SCUPPER DRAIN



SPAN 1 NORTHBOUND LANE, FULL LENGTH LONGITUDINAL CRACK (UP TO 1/16IN WIDE) (SIMILAR SPAN 2,3)



SPAN 1 RIGHT PARAPET, SPALL (30IN X 8IN X 3IN DEEP) WITH EXPOSED RUSTED REBAR AT RAIL POST 5



SPAN 1 RIGHT PARAPET, FOUR (4) FULL WIDTH HAIRLINE CRACKS IN PARAPET AT RAIL POST 5



SPAN 2 RIGHT SHOULDER, THREE (3) CLOGGED SCUPPER DRAINS AND DEBRIS ACCUMULATION



SPAN 2 RIGHT PARAPET, FAILED REPAIR AT RAIL POST 2 CONNECTION



SPAN 3 RIGHT SHOULDER, ONE (1) CLOGGED SCUPPER DRAIN



SPAN 3 RIGHT PARAPET, PREVIOUS REPAIRED SPALLS AT RAIL POST 4,5



NORTH APPROACH NORTHBOUND LANE, BROKEN AND DEPRESSED ASPHALT (50FT X 4FT WIDE) WITH FULL WIDTH TRANSVERSE CRACK



SOUTHBOUND LANE ASPHALT WEARING SURFACE AT BENT 2, TRANSVERSE CRACK (12FT X UP TO 1/8IN WIDE)



SPAN 2 LEFT SHOULDER, ONE (1) CLOGGED SCUPPER DRAIN WITH DEBRIS ACCUMULATION



SPAN 2 LEFT PARAPET, SPALL (30IN X 9IN X 2-1/2IN DEEP) WITH EXPOSED RUSTED REBAR AT RAIL POST 3



SPAN 2 LEFT PARAPET, SPALL (38IN X 9IN X 2-3/4IN DEEP) WITH EXPOSED RUSTED REBAR



BENT 1 LEFT PARAPET, SPALL (36IN X 10IN X 4IN DEEP) WITH EXPOSED RUSTED REBAR



LEFT BARRIER RAIL AT END BENT 1, SPALL (10IN X 12IN X 4IN DEEP)



SOUTH APPROACH LEFT SHOULDER, LOSS OF BACKFILL (6IN DIAMETER X 8IN DEEP) WITH SLOPE EROSION (18IN X 18IN X 24IN DEEP)



SOUTH APPROACH LEFT SHOULDER BACKFILL LOSS (6FT) WITH SLOPE EROSION (18IN X 18IN X 24IN DEEP)

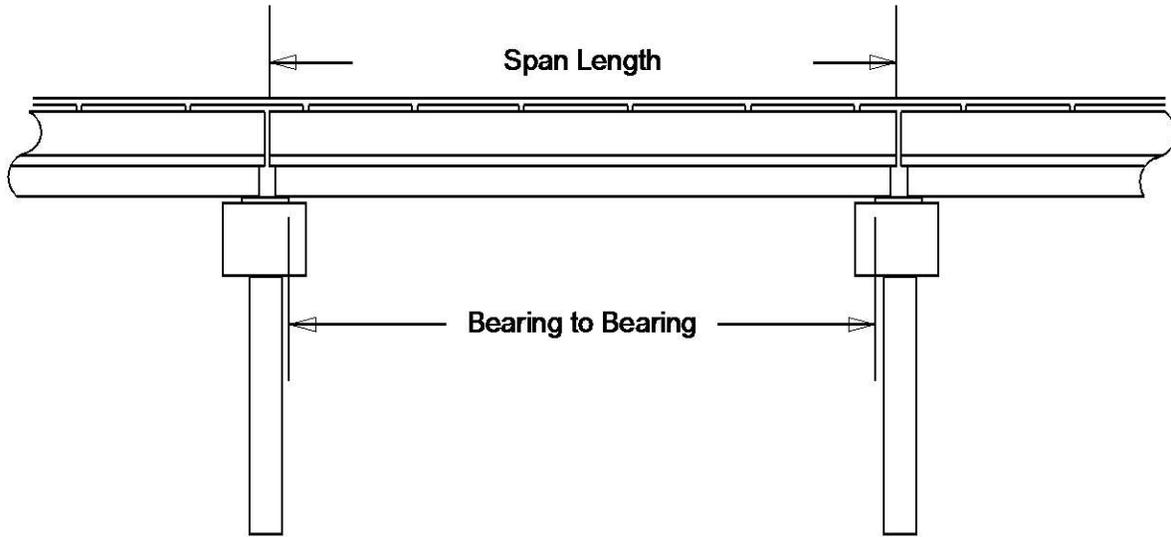


STREAMBED AT BENT 1, SCOUR HOLE (10FT X 15FT X 3FT DEEP)

Structure Data Worksheet

Spans

County: WILKES Structure No: 960029 Date: 04/08/2013 Inspected By: MTM



Span No	Span Length	Bearing to Bearing	Comments
1	25 FT	23 FT. 8 IN.	NBIS LENGTH 77FT 6IN
2	30 FT. 1 IN.	28 FT. 9 IN.	
3	25 FT. 1 IN.	23 FT. 9 IN.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 960029 County: WILKES Date: 04/08/2013 By: MTM

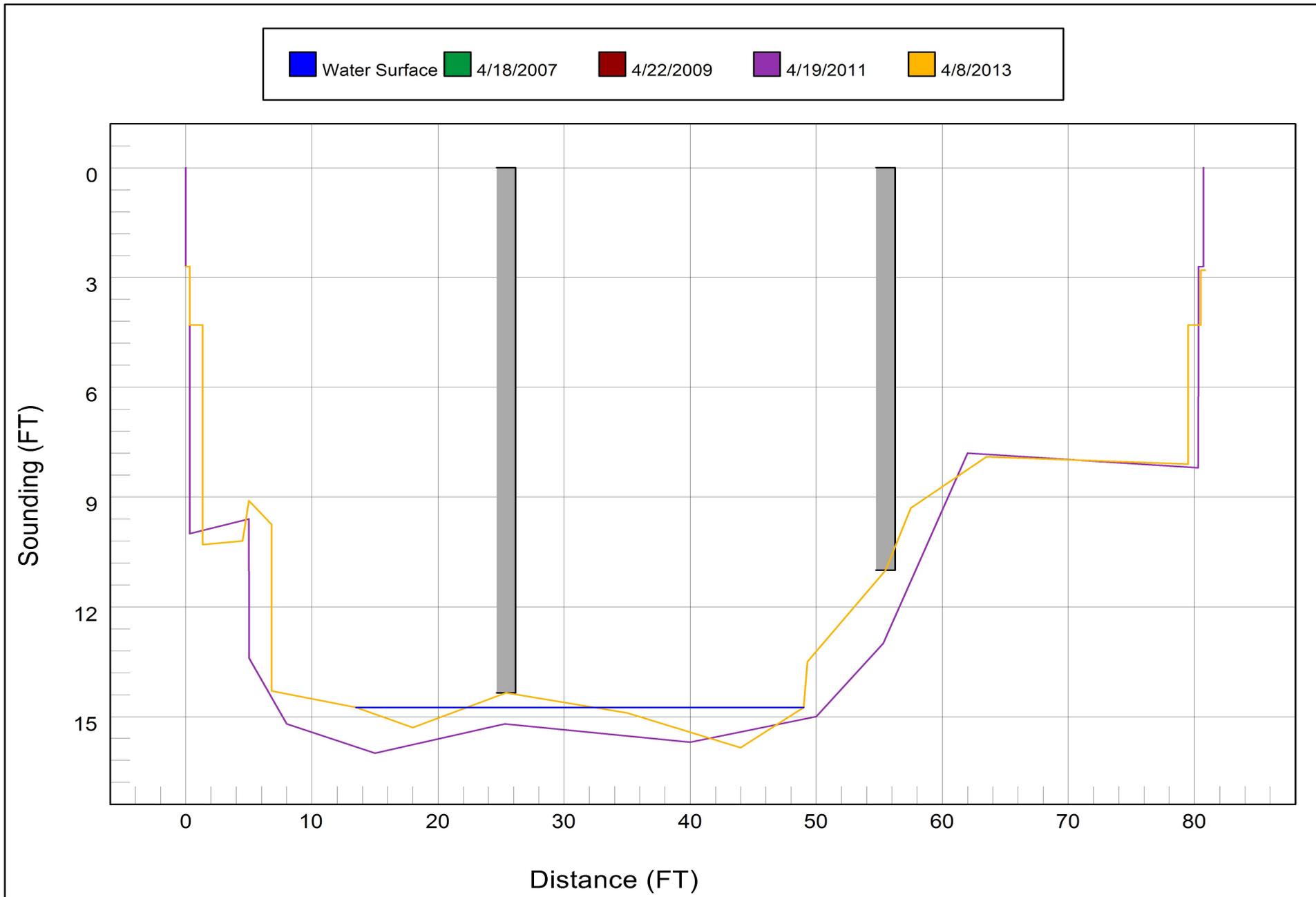
Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: 10.3 Location of Highwater Mark: DEBRIS ON BANK

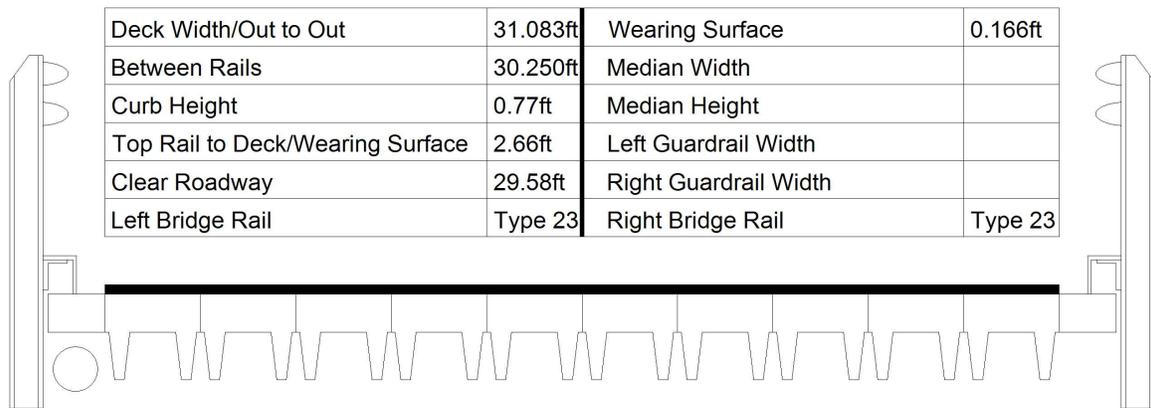
DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.7	FILL FACE			
0.3	2.7	BULKHEAD			
0.31	4.3	CAP			
1.33	4.3	CAP			
1.331	10.3		1.331	10.6	
4.5	10.2				
5	9.1				
6.8	9.75				
6.81	14.3				
13.5	14.75	Water Surface/Water Edge (WSWE)			
18	15.3				
25.4	14.35	Bent	25.4	15.6	
35	14.9				
44	15.85				
49	14.75	Water Surface/Water Edge (WSWE)			
49.3	13.5				
55.5	11	Bent	55.5	9.8	
57.5	9.3				
63.5	7.9				
79.5	8.1		79.5	6.6	
79.501	4.3	CAP			
80.5	4.3	CAP			
80.501	2.8	BULKHEAD			
80.84	2.8	FILL FACE			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



4" UTILITY

CH. 10 SPAN 2
REPAIR

6 1/2" X 12" I-BMS.



Measurements for Span #	1	SPAN 2 & 3 SIMILAR	
Deck Thickness	0.375	Left Overhang	
Top of Rail to Bottom of Beam	4.187	Right Overhang	

No. of Channels	12
Leg Width	2 1/2 in.
Leg Height	12 in.
Leg to Leg (Centers)	24 in.
Channel Width	30 in.
Channel Height	17 1/4 in.
Comments	

Title

TYPICAL SECTION

Description

DATA WORKSHEET

Bridge No: 960029

Drawn By: W. MITCHELL

Date: 04/8/2013

File Name: S0126001544

Bridge Inspection Field Sketch



Roadway	23ft Wide	2 Paved Lanes	Looking South
Left Shoulder	4.5ft Wide	.5ft Paved	4ft Unpaved
Right Shoulder	2.5ft Wide	.5ft Paved	2ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPROACH ROADWAY

Description

DATA WORKSHEET

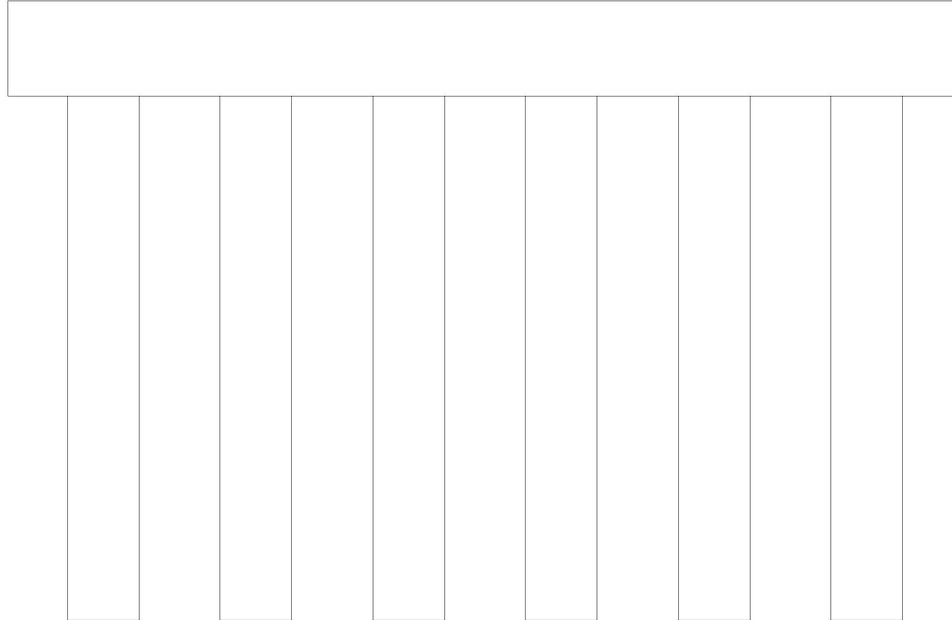
Bridge No: 960029

Drawn By: W. MITCHELL

Date: 04/8/2013

File Name: S0130001832

Bridge Inspection Field Sketch



Abutment #	1	SIMILAR: Abutment 2	
Cap - Pre-Cast			
Cap Size	31.00ft Long	1.333ft Wide	1.00ft High
Left Overhang	1.333ft	Lt Cap/Beam Overhang	0ft
Right Overhang	1.333ft	Rt Cap/Beam Overhang	0ft
Sill - Piles			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	5.75		12"		Vertical
2	Wood or Timber	Pile Bent	5.5		12"		Vertical
3	Wood or Timber	Pile Bent	5.80		12"		Vertical
4	Wood or Timber	Pile Bent	5.66		12"		Vertical
5	Wood or Timber	Pile Bent	5.86		12"		Vertical
6	Wood or Timber	Pile Bent			12"		Vertical

AB. 1 PILE 1, 2, 6,

AB. 2 PILE 1 & 6 SPLICED WITH CONC. COLLAR

Title

END BENT

Description

DATA WORKSHEET

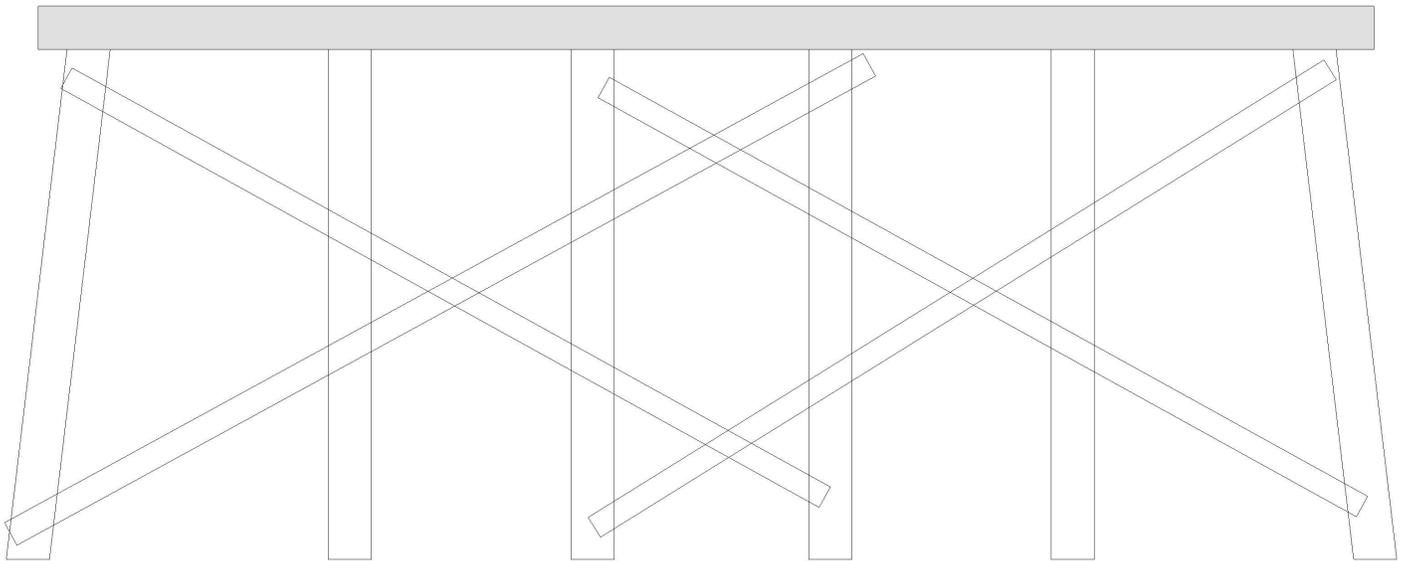
Bridge No: 960029

Drawn By: W. MITCHELL

Date: 04/8/2013

File Name: S0126001549

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
30.941 ft.	1.330 ft.	1.000 ft.	1.166 ft.	1.375 ft.	1.660 ft.	1.270 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	6.05 ft.	1 ft.	10 ft.		Battered	No	No	No	No
2	Timber	5.63 ft.	1 ft.	10 ft.		Vertical	No	No	No	No
3	Timber	5.50 ft.	1 ft.	10 ft.		Vertical	No	No	No	No
4	Timber	5.62 ft.	1 ft.	10 ft.		Vertical	No	No	No	No
5	Timber	5.60 ft.	1 ft.	10 ft.		Vertical	No	No	No	No
6	Timber		1 ft.	10 ft.		Battered	No	No	No	No
Bent/Abutment #: 1			Similar Bents: 2							

Title BENT				Description DATA WORKSHEET			
Bridge No: 960029	Drawn By: W. MITCHELL			Date: 4/10/2013	File Name: S0518000031		



SOUTH APPROACH LOOKING NORTH



END BENT 1 JOINT



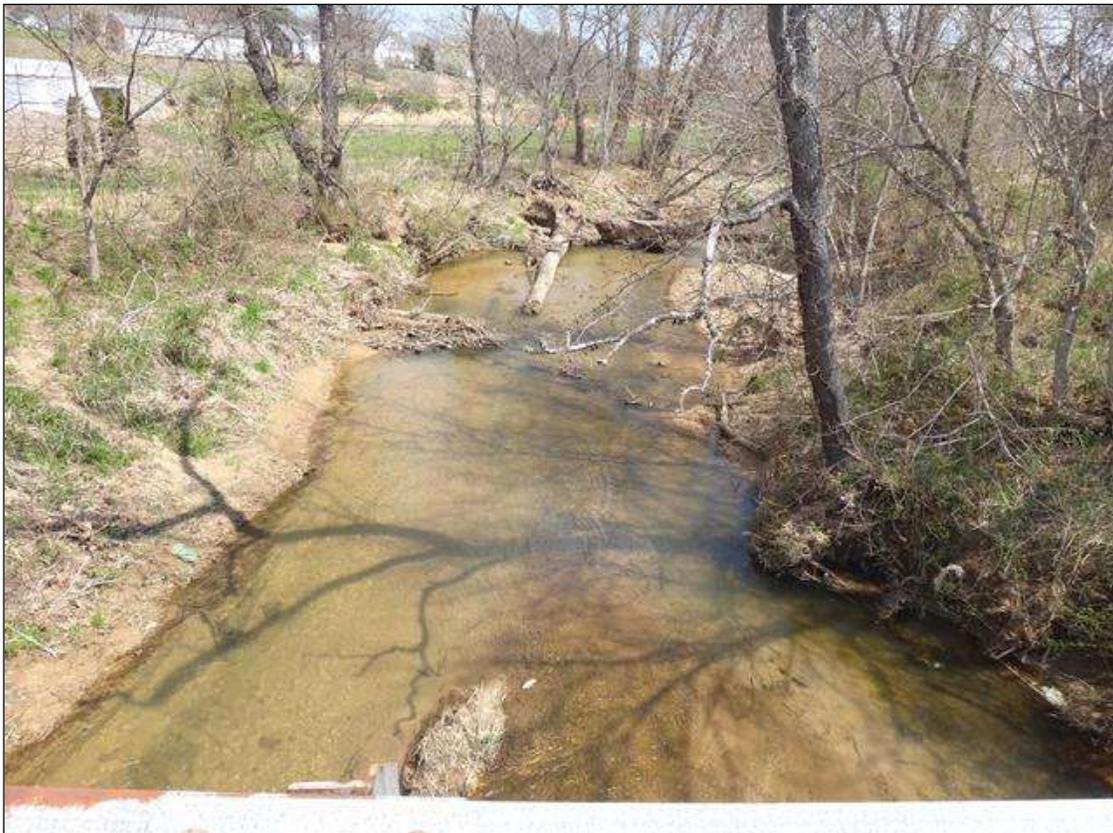
WEST BARRIER RAIL



EAST BARRIER RAIL



BENT 1 JOINT



LOOKING DOWNSTREAM



BRIDGE NUMBER



BENT 2 JOINT



NORTHEAST WINGWALL GENERAL VIEW



END BENT 2 JOINT



NORTH APPROACH LOOKING SOUTH



POSTING SIGN



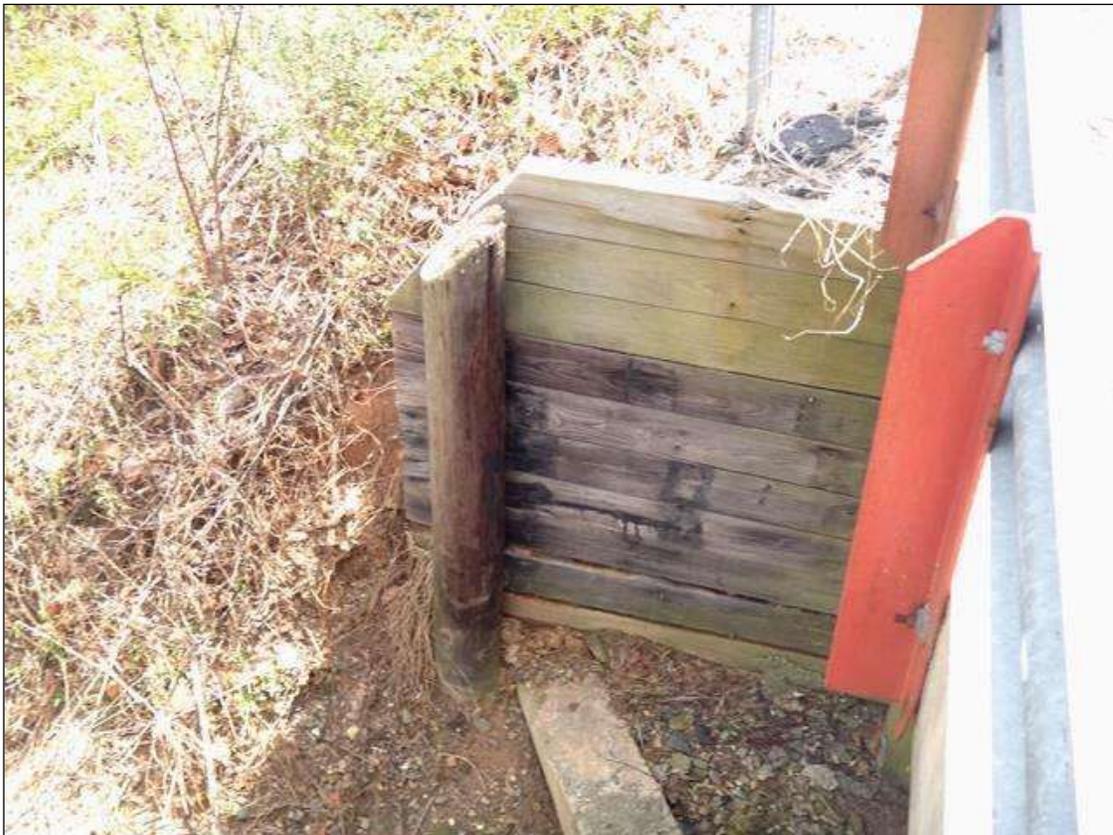
NORTHWEST WINGWALL GENERAL VIEW



LOOKING UPSTREAM



SOUTHWEST WINGWALL GENERAL VIEW



SOUTHEAST WINGWALL GENERAL VIEW



BENT 1 GENERAL VIEW



END BENT 1 GENERAL VIEW



BEARING GENERAL VIEW



UNDERSIDE OF DECK



END BENT 2 GENERAL VIEW



BENT 2 GENERAL VIEW



EAST PROFILE LOOKING WEST



WEST PROFILE LOOKING EAST



WEST OVERHANG, 4IN UTILITY