ATTENTION

VERT CLR CHECKED



BRIDGE INSPECTION REPORT

INOI LOTION TITL.					
COUNTY GASTON	BRIDGE NUMBER	350190	INSPECTION CYCLE	2	YRS
ROUTE SR2000	ACROSS SCLRR				M.P. 0
LOCATION 0.2 MI. S. JCT. SR2012					
SUPERSTRUCTURE REINFORCED CONC	RETE DECK ON I-BE	EAMS			
SUBSTRUCTURE END BENTS:RC CAPS	S ON STEEL PILES,IN	NT.BENTS:RO	C POST & BEAM		
SPANS 3@37'0					
LONGITUDE 81° 4' 4.07"		LATITUDE	35° 15' 56.18"		
INSPECTION DATE 08/05/2014	F	RESENT CO	NDITION GOOD		
PRESENT POSTING N	NOT POSTED	PROPOSED	POSTING		
OTHER SIGNS PRESENT (4) DELINEATO	ORS				



Fracture Critical No **Temporary Shoring** No Scour Critical No Scour POA No

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

SOUTH APPROACH

IDENTIFICATION -			
(1) STATE NAME -NORTH CAROLINA BRIDGE	350190	SUFFICIENCY RATING =	72.11
(8) STRUCTURE NUMBER(FEDERAL) 000	0000000710190	STATUS = Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31020000		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		CODE
(3) COUNTY CODE 71 (4) PLACE CODE	4840	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - SCLRR		(104)HIGHWAY SYSTEM Is not on NHS	0
(7) FACILITY CARRIED SR2000		(26) FUNCTIONAL CLASS - Minor Arterial	16
(9) LOCATION 0.2 MI. S. JCT. SR2012		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 15' 56.18" (17)LONG 81° 4' 4.0	7"	(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA	ARE	(103)TEMPORARY STRUCTURE -	
(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: Steel		(22) OWNER - State Highway Agency	01
TYPE - Stringer Mutlibeam or Girder	CODE 302	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :		· ,	
TYPE -	CODE 000		CODE
(45) NUMBER OF SPANS IN MAIN UNIT	3	(58) DECK	6
(46) NUMBER OF APPROACH SPANS		(59) SUPERSTRUCTURE	7
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	7
(108)WEARING SURFACE / PROTECTIVE SYSTEM:		(61) CHANNEL & CHANNEL PROTECTION	N
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	N
(B) TYPE OF MEMBRANE -	CODE	——————————————————————————————————————	CODE .
(C) TYPE OF DECK PROTECTION -	CODE	LOAD RATING AND POSTING ————————————————————————————————————	3
` '			1
AGE AND SERVICE		• •	
(27) YEAR BUILT	1960		50 1
(106)YEAR RECONSTRUCTED		(65) INVENTORY RATING METHOD - Load Factor	30
(42) TYPE OF SERVICE : ON - Highway		(66) INVENTORY RATING - HS-17 (70) BRIDGE POSTING - No Posting Required	5
UNDER - Railroad	CODE 12	(70) BRIDGE POSTING - No Posting Required (41) STRUCTURE OPEN, POSTED ,OR CLOSED	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0	DESCRIPTION - Open, No Restriction	Α
(29) AVERAGE DAILY TRAFFIC	8800	1 /	CODE
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT	6%	(67) STRUCTURAL EVALUATION	6
(19) BYPASS OR DETOUR LENGTH	2 MI	(68) DECK GEOMETRY	2
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERTI & HORIZ	6
(48) LENGTH OF MAXIMUM SPAN	36 FT	(71) WATERWAY ADEQUACY	N
(49) STRUCTURE LENGTH	111 FT	(72) APPROACH ROADWAY ALIGNMENT	6
(50)CURB OR SIDEWALK: LEFT 1.7 FT RIGHT	1.7 FT	(36) TRAFFIC SAFETY FEATURES	0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28 FT	(113)SCOUR CRITICAL BRIDGES	N
(52) DECK WIDTH OUT TO OUT	31.5 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	23 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 7° (35) STRUCTURE FLARED	0	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	28 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Railroad	22 FT	(114)FUTURE ADT 17600 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Railroad	14.67 FT	(110) TEART OTORE ADT	2020
(56) MIN LAT UNDERCLEAR LT REF -	000 FT		
		(90) INSPECTION DATE	8/05/2014
NAVIGATION DATA		(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	
(38) NAVIGATION CONTROL - Not Applicable	CODE N	A) FRACTURE CRIT DETAIL - NO A)	
(111)PIER PROTECTION -	CODE	B) UNDERWATER INSP - NO B)	
(39) NAVIGATION VERTICAL CLEARANCE	0	C) OTHER SPECIAL INSP NO C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT	SCOUR	
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT		

Structure No: 350190 County: GASTON Run Date:

			rtical					C			Fraffic	ance		See Not	e 1					rte
Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vel Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Clear	Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance		STRAHNET I Designator	Direction of Traffic	Highway System of Route
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
1	RR	80000000		0					0	0	0		R	22	14.67		9			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 09/10/2014

8800

CITY:

LT

141

RT 141

UNDER

0

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:

111 **GASTON** 12 350190 FEET

ROUTE CARRIED: FEATURE INTERSECTED:

SR2000 **SCLRR**

LOCATED: BRIDGE NAME: 0.2 MI. S. JCT. SR2012

* BELMO

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

NFA 2012

BUILT: BY: PROJ: FED.AID PROJ: **DESIGN LOAD:**

8.29313 HS 15 1960 SHC S-1311(1)

REHAB: SKEW: BY: PROJ: ALIGNMENT: LANES:

TAN 83 ON 2

NAVIGATION: HT. CRN. TO BED: WATER DEPTH: FT

VC. 0 FT HC 0 FT FT

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS

FΑ

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES; INT.BTS:RC POST & BEAM

SPANS: 3@37'

BEAMS OR GIRDERS: 4 LINES 27 I-BEAMS @ 8' CENTERS

FLOOR: **ENCROACHMENT:** DECK (OUT TO OUT):

7.25 RC/NO 31.5 FT

AWS

CLEAR ROADWAY: **BETWEEN RAILS:** SIDEWALK OR CURB:

28 FT 31.33 FT LT 1.7 FT RT 1.7 FT

VERT.CL.OVER:

999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-28 Int.Beams 09/29/2010 HS-17 SV TTST DATE

SYSTEM: **GREEN LINE ROUTE:**

Υ Secondary S.R. Route

UNDER ROUTES AND CLEARANCES

		Vertical Cl	earances	Horizontal Clearances				
Span	Route Description	MMVC	MVC	Total	Left	Right		
1	RR	0	22	0	0	14.67		

Note: All measurements are in feet.

BRIDGE I & A FORM1 (90)A

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection

BRIDGE NO. 350190 COUNTY GASTON ROUTE SR2000 OVER SCLRR

STRUCTURE TYPE REINFORCED CONCRETE DECK ON I-BEAMS

	EVALUATION CODES	: CRITICAL	_ (C, 0 - 3);	POOR (P, 4); FA	AIR (F, 5, 6); GOOD (G, 7	- 9)	
	INSPECTION ITEM				ITEM 61		
	DECK ITEMS	(GRADES		a. WATERWAY		
1. WEARING	SURFACE			& CHANNEL PROT.	b. ALIGNMENT		
2. DECK NO.	a. CONCRETE	3	G	FROI.	c. SCOUR		
OF EA TYPE	b. TIMBER			d. SLOPE PROT., RI		AP, DIKES, ETC.	
SPN GRADE RATES SI & A	c. STEEL PLANK			50. APPROAC	H ROADWAY CONDITION	١	G
ITEM 58	d. OPEN GRID			51. APPROAC	H SLABS		
3. RAILING	a. CONCRETE		G	52. PAINT SYS	STEM CODI	E A	F
	b. TIMBER			53. UTILITIES			
c. ALUMINUM			54. RESPONS	E TO LIVE LOAD		G	
	d. STEEL			55. ESTIMATE	D REMAINING LIFE		25
4. CURBS, WI	HEELGUARDS, PARAPETS, MEDI	ANS	G				
	S (ON OR ATTACHED TO STRUC	TURE)		60. REGULATO	ORY SIGN NOTICE ISSUE	ED .	NO
6. DECK EXP	a. STEEL PL OR FINGER			61. PROMPT-A	ACTION NOTICE ISSUED		NO
JTS. OR	b. MISC PREFAB			62. PRESENTI	Y POSTED		NO
DEVICES. NO. OF EACH	c. COMPRESSION SEAL			63. TOT. FIELD	INSP TIME (INCLUDE W	/RITE UP)(MAN HR)	5
	d. STANDARD JOINTS	2	G	64. TOTAL SN	OOPER INSP. TIME (HRS	5)	0
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0
7. DECK DEB	RIS (INCLUDES EXCESS SAND/G	RAVEL)	G				
				7	0. SI&A GENERAL COND	ITION RATINGS	
S	SUPER STR. (FM. 1 (90)B TRUSS)	ITEM 59		a. DECK		ITEM 58	6
10. LONGITUI	DINAL BEAMS OR GIRDERS		G	b. SUPERSTR	UCTURE	ITEM 59	7
11. LONGITUI	DINAL JOIST OR STRINGERS			c. SUBSTRUC	c. SUBSTRUCTURE ITEM 60		
12. INT. DIAP'	S, X-FRAMES, BRACING & CONN	'S	G	d. CHANNEL & CHANNEL PROT. ITEM 61			
13. END DIAP	'S, CURTAIN WALLS, & CONN'S		G				
14. FLOOR BE	EAMS AND CONNECTIONS				71. SI&A FIELD APPRAI	SAL RATINGS	
15. BEARING	ASSEMBLIES (INCLUDING MISAL	.IGN)	G	a. WATERWA	Y ADAQUACY		
16. DRAINAGI	E SYSTEM (ON STRUCTURE)		G	b. APPR. RDV	VY. ALIGNMENT		6
17. MOVABLE	SPAN MACHINERY						
				72. FIELD SCC	OUR EVALUATION		
SU	B STR. ITEMS. ITEM 60 (INCLUDE	SCOUR)					
35. TIM SUB	a. ABUT. & INT. BENT CAPS & R	ISERS		U	SE OF INSP. ACCESSIBII	LITY EQUIPMENT	
STR.	b. PILES, POST, SILLS, & BRACI	NG		SNOOPER (C	ODE S, 4, OR N)	HRS	NO
	c. BULKHEADS, WING'S, & TIE B	ACKS		LADDER			NO
36. CONC	a. ABUT. & INT. BENT CAPS		G	BUCKET TRU	СК		NO
SUB STR.	b. ABUT. & BENT COL'S BREAST	WALLS	G	BOAT			NO
	c. ABUT. & INT. BENT PILES			OTHER			NO
	d. BACKWALLS, WING'S, RETAIN. WALLS G						
	e. ABUT. & BENT FOOTINGS & S	SILLS					
37. STEEL	a. ABUT. & INT. BENT CAPS & R	ISERS		SPECIAL INSI	PECTION REQUESTED F	OR	
SUB STR.	b. PILES, BRACING, AND BULKH	IEADS					
38. FOUNDAT	ION PILES TYPE MATERIAL			NOTE			
39. SLOPE PF	ROT., RIP-RAP (INCLUDE DRAINA	GE)					
40. FENDER S	SYSTEMS			80. INSPECTE	D BY:	sed RL	
41. DRIFT				81. REVIEWED	D. D.V.		

B:1 104 5	4(00)11	
Bridge I&A Fo		FIELD INSPECTION REPORT
	rth Carolina ansportation	Bridge Inspecion & Analysis
Division of		
Team Leader	DEREK RIC	KUS
Assisted By	EAP	
Item No.	Grade	
2a	G	COARSE AGGREGATE EXPOSED THROUGHOUT TOP OF DECK
3a	G	SCATTERED H/L CRACKING AND SPALLS.
6d	G	JOINTS OVER BENTS TAR SEALED
10	G	SCATTERED SURFACE CORROSION
10A	NO	NO CURVED GIRDERS
52 F SCATTERED SURFACE CORROSION ON BEAMS DUE TO PAINT LOSS		
38		NOT VISIBLE

NORTH APPROACH AND SOUTH APPROACH ROADWAYS RESURFACED

NO SLOPE PROTECTION

39

50

G

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

County GASTON Bridge: 350190 Date: 08/05/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost				
0	No Maintenance Required	NA	0	NO MAINT					





NORTH APPROACH AND SOUTH APPROACH ROADWAYS RESURFACED



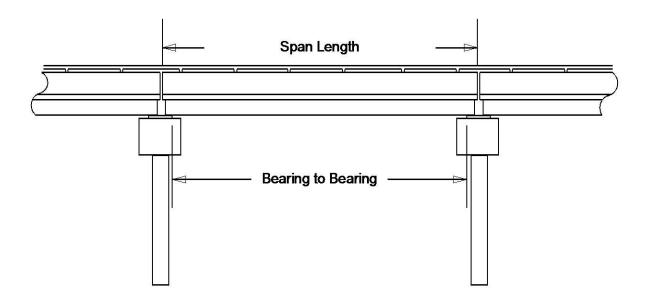
COARSE AGGREGATE EXPOSED THROUGHOUT TOP OF DECK



SCATTERED SURFACE CORROSION ON BEAMS

Structure Data Worksheet

County: GASTON Structure No: 350190 Date: 08/05/2014 Inspected By: DCR

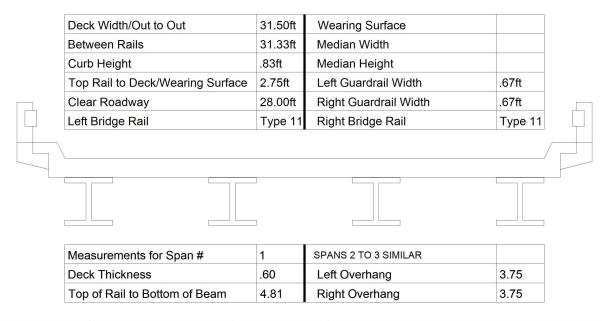


Span No	Span Length	Bearing to Bearing	Comments
1	37.000'	35.167'	
2	37.000'	35.792'	
3	37.000'	35.167'	NBIS=106.0'

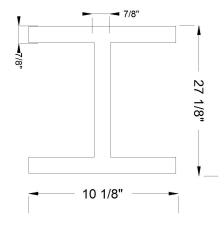


Roadway	23.00ft Wide	2 Paved Lanes	Looking North
Left Shoulder	10ft Wide		10.00ft Unpaved
Right Shoulder	5ft Wide		5.00ft Unpaved
Left Guardrail			
Right Guardrail			

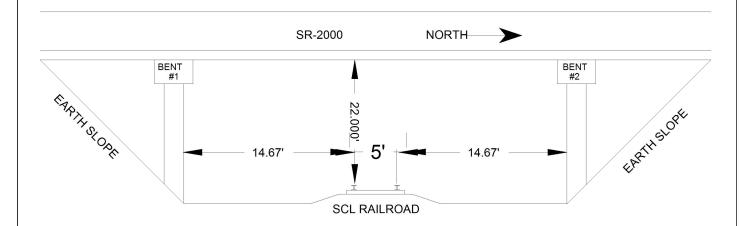
Title		Description					
APPROACH ROADWAY	WIDTH	LOOKING NORTH					
Bridge No: 350190 Drawn By: DJA			Date: 8/18/2008	File Name: \$0298000735			



Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	8.00ft	
2	Steel I Beam	8.00ft	
3	Steel I Beam	8.00ft	
4	Steel I Beam		



Title		Description				
DECK DIMENSIONS		TYPICAL SECTION				
Bridge No: 350190	Drawn By: DJA	Date: 8/18/2008	File Name: \$0298000736			



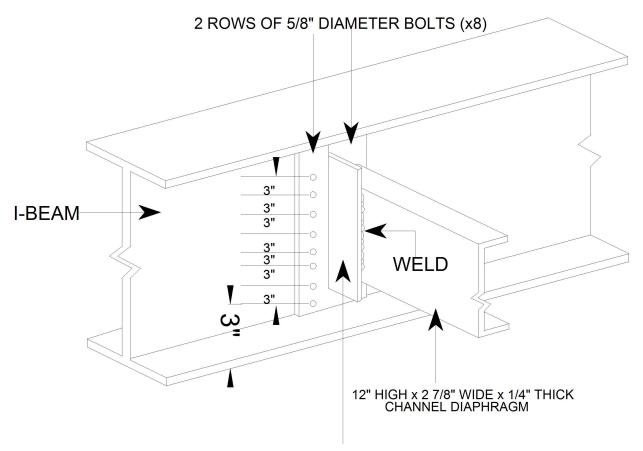
Measurements Under Span 1

Rail to Rail	5.00ft	1 set(s) of tracks	Looking: EAST
Vertical Clearance	22.00ft	Measured from rail	1at Beam # 4
Distance to Left Bent	14.67ft		
Distance to Left Toe of Slope	14.67ft		
Distance to Right Bent	14.67ft		
Distance to Right Toe of Slope	14.67ft		

Title		Description				
RAILROAD CLEARANCE		RAILROAD CLEARANCE				
Bridge No: 350190 Draw	awn By: DJA	Date: 8/18/2008	File Name:S0298000737			

DIAPHRAGM DETAILS

LOCATIONS: MIDPOINTS OF SPANS



24" HIGH x 7 3/4" WIDE x 9" DEEP (3/8" THICK) STEEL T-BRACKET WELDED TO WEB OF CHANNEL DIAPHRAGM AND BOLTED TO WEB OF BEAM

Title		Description					
INTERMEDIATE DIAPHRAGMS			DIAPHRAGM DETAILS				
Bridge No: 350190	Drawn By: DELVIN ADAMS		Date: 8/22/2012	File Name: \$0146031709			



	<u> </u>	0000001								D00000		
Cap In	formation		Material	Cast-in-	-Place Concre	ete						
Lengt	h Width	Height	Left Overhang		Right Overhang Left B		Left Be	eft Beam to End of Cap. Rig		Righ	ght Beam to End of Cap.	
26.000	ft. 2.500 ft.	2.500 ft.	4.000 ft. 4.000 ft.			1.833 ft.			1	.833 ft.		
Subca	p Information		Material									
Lengt	h Width	Height	Left Overhang Right Overhang Left Pile to Splice.									
Sill Info	ormation		Material									
Lengt		Height										
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orie	ntation	Driven?	Replacem	nent?	Removed?	Collar?
1	Concrete	18.000 ft.	2.500 ft.	2.500 f	ft.	Vertical		No	No		No	No
2	Concrete		2.500 ft.	2.500 f	ft.	Vertical		No	No		No	No
	VERIF	IED BY	′ DERE	K RI	CKUS (DΝ	8/5/2	2014				
Bent/A	butment #: 1		Similar I	Bents:	2						1	1

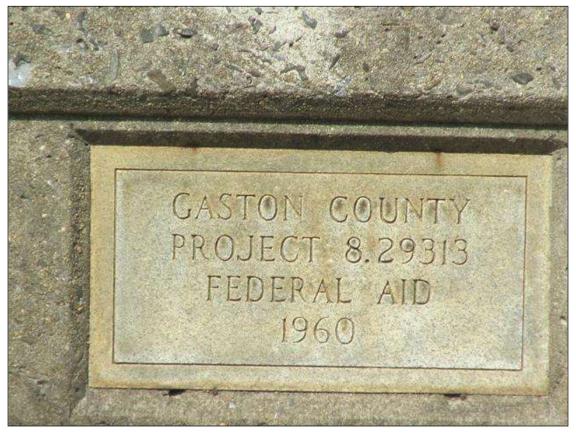
Title Description
INTERIOR BENTS SUBSTRUCTURE DETAILS

Bridge No: 350190 Drawn By: DELVIN ADAMS Date: 8/22/2012 File Name: S0146031710

Structure 350190 County GASTON Date: 08/05/2014 Structure Photos



NORTH APPROACH



DATA PLATE, NORTHWEST CORNER

Structure 350190 County GASTON Date: 08/05/2014 Structure Photos



SOUTH APPROACH



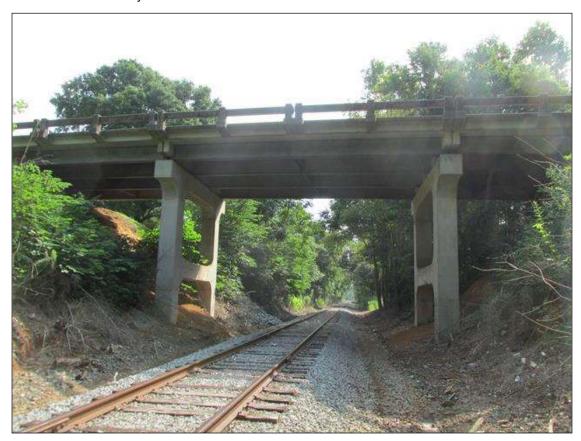
LOOKING WEST



ABUTMENT 1



BENT 1



LOOKING EAST



BENT 2

Structure 350190 County GASTON Date: 08/05/2014 Structure Photos



ABUTMENT 2