

**BRIDGE MANAGEMENT UNIT BRIDGE INSPECTION REPORT** 

	INSPECTION TIPE.	Modeline interpretation						
COUNTY	GASTON	BRIDGE NUMBER	350129	INSPECT	ION CYCLE	2	YRS	
ROUTE	S.C.L. RAILROAD	ACROSS 185					M.P.	19000
LOCATIO	N 0.2 MI. S. JCT. NC7							
SUPERST	TRUCTURE REINFORCED CONC	RETE DECK ON I-BE	AMS					
SUBSTRU	JCTURE END BENTS:RC CAP	& STEEL PILES,INTE	RIOR BENT	S:RC POST	& BEAM			
SPANS	1@37'0, 2@66'7, 1@53'8, 1@45'	4						
LONGITU	DE 81° 9' 42.80"		LATITUDE	35° 16' 2	4.13"			
INSPECT	ION DATE 08/26/2014	P	RESENT CO	ONDITION	CLEARANG	CE O	NLY	

PROPOSED POSTING



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

SIGN NOT	·	NUMBERED REQUIRED
No	WEIGHT LIMIT	
No	DELINEATORS	
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

**LOOKING NORTH** 

PRESENT POSTING Not Posted

OTHER SIGNS PRESENT NONE

### NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 08/27/2014

IDENTIFICATION —			
(1) STATE NAME -NORTH CAROLINA BRIDGE	350129	SUFFICIENCY RATING =	0
(8) STRUCTURE NUMBER(FEDERAL) 000	0000000710129	STATUS = Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	11000850		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		- CODE
(3) COUNTY CODE 71 (4) PLACE CODE	25580	(112)NBIS BRIDGE SYSTEM -	NO
(6) FEATURE INTERSECTED - 185		(104)HIGHWAY SYSTEM Is on the NHS	1
(7) FACILITY CARRIED S.C.L. RAILROAD		(26) FUNCTIONAL CLASS - Arterial - Interstate	11
(9) LOCATION 0.2 MI. S. JCT. NC7		(100)STRAHNET HIGHWAY - Interstate STRAHNET Route	1
(11)MILEPOINT	19	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 16' 24.13" (17)LONG 81° 9' 42.	.80"	(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 - On the National Network	1
		(20) TOLL On Free Road	3
		(31) MAINTAIN - Railroad	27
(43) STRUCTURE TYPE MAIN: Steel		(22) OWNER - Railroad	27
TYPE - Stringer Mutlibeam or Girder	CODE 302	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :			
TYPE -	CODE 000	———— CONDITION —————	CODE
(45) NUMBER OF SPANS IN MAIN UNIT	5	(58) DECK	N
(46) NUMBER OF APPROACH SPANS		(59) SUPERSTRUCTURE	N
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	N
(108)WEARING SURFACE / PROTECTIVE SYSTEM:		(61) CHANNEL & CHANNEL PROTECTION	N
(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 Railroad	8
		(63) OPERATING RATING METHOD - No Rating Analysis or Evaluatic	
AGE AND SERVICE		(64) OPERATING RATING - HS-	0
(27) YEAR BUILT	1963	(65) INVENTORY RATING METHOD - No Rating Analysis or Evaluatic	5
(106)YEAR RECONSTRUCTED		(66) INVENTORY RATING - HS-	0
(42) TYPE OF SERVICE : ON - Railroad		(70) BRIDGE POSTING - No Posting Required	5
UNDER - Highway	CODE 21	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	A
(28) LANES: ON STRUCTURE 0 UNDER STRUCTURE	7	DESCRIPTION - Open, No Restriction	,,
(29) AVERAGE DAILY TRAFFIC	102000		- CODE
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT	16%	(67) STRUCTURAL EVALUATION	9
(19) BYPASS OR DETOUR LENGTH	2 MI	(68) DECK GEOMETRY	2
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERTI & HORIZ	3
(48) LENGTH OF MAXIMUM SPAN	67 FT	(71) WATERWAY ADEQUACY	N
(49) STRUCTURE LENGTH	269 FT	(72) APPROACH ROADWAY ALIGNMENT	0
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT	0 FT	(36) TRAFFIC SAFETY FEATURES	NNNN
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	0 FT	(113)SCOUR CRITICAL BRIDGES	N
(52) DECK WIDTH OUT TO OUT	0 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	0 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 29° (35) STRUCTURE FLARED	0	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	19.333 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	49.4 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 Highway	15.775 FT	(114)FUTURE ADT 204000 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Highway	5.75 FT		
(56) MIN LAT UNDERCLEAR LT REF -	7 FT	INSPECTIONS INSPECTIONS	0/06/25
NAVIGATION DATA		(00) 051 5 155	8/26/2014
(38) NAVIGATION CONTROL - Not Applicable	CODE N	(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 - NO B)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT	C) OTHER SPECIAL INSP NO C)	
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT	SCOUR	
(TO) INDVIOLITION HOMIZONTAL CLEARANCE	UFI		

Structure No: 350129 County: GASTON Run Date:

			rtical		.,			on			Fraffic	nce	5	See Note	e 1					Route
Span Number	Feature Intersected	Inventory Route	Minimum Maximum Ve Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classificatio	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Clearance	Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Traffic	Highway System of Ro
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I 85 S RAMP	17000850	19.33	19	1	10085		11	1	25500	2012	24.5	Н	19.25	12.5	13.92	9	0	1	1
3	I 85 S	11000850	17.67	19	1	10085		11	3	51000	2012	49.42	Н	16	7	6.42	9	1	1	1
4	I 85 N	11000850	17.8	19	1	10085		11	3	51000	2012	48.75	Н	15.78	5.75	7	9	1	1	1

#### **BRIDGE MANAGEMENT UNIT**

DATA ON EXISTING STRUCTURE Run Date: 08/27/2014

185

61

ON

0

**UNDER** 

7

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:

269 **GASTON** 12 350129 FEET

**ROUTE CARRIED:** FEATURE INTERSECTED:

S.C.L. RAILROAD

LOCATED: BRIDGE NAME: 0.2 MI. S. JCT. NC7

CITY: **GASTONIA** 

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

NFA 102000 2012 FΑ LT 0 RT 0

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

8.16361 I-85-1(14)18 Railroad 1963 SHC

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

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

VC. 0 FT HC 0 FT FT FT

TAN

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS

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

SPANS: 1@37', 2@66'-7", 1@53'-8", 1@45'-4"

**BEAMS OR GIRDERS:** 5 LINES 36" I-BEAMS @ 3'-6" CENTERS

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

0 FT

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

> 0 FT 0 FT 0 FT LT 0 FT RT

VERT.CL.OVER:

999.9 FT

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

HS-HS-SV TTST DATE

SYSTEM: **GREEN LINE ROUTE:** 

Primary Interstate U

#### UNDER ROUTES AND CLEARANCES

		Vertical C	earances	Horizontal Clearances				
Span	Route Description	MMVC	MVC	Total	Left	Right		
2	I 85 S RAMP	19.3330	19.25	24.50	13.9170	12.50		
3	I 85 S	17.6670	16	49.4170	6.4170	7		
4	I 85 N	17.80	15.7750	48.75	7	5.75		

Note: All measurements are in feet.

REMARKS:

BRIDGE I & A FORM1 (90)A

## **BRIDGE INSPECTION RECORD AND SUMMARY**

INSPECTION TYPE Routine Inspection

BRIDGE NO. 350129 COUNTY GASTON ROUTE S.C.L. RAILROAD OVER 185

STRUCTURE TYPE REINFORCED CONCRETE DECK ON I-BEAMS

ROUTE ORIENTATION SPANS 1@37'0, 2@66'7, 1@53'8, 1@45'4

ROUTE ORIENTA	ATION	SPANS 1	@370, 2@6 	6'7, 1@53'8, 1@45' 	4		
	EVALUATION CODES:	CRITICAL	(C, 0 - 3);	POOR (P, 4); F	AIR (F, 5, 6); GOOD (G	, 7 - 9)	
	INSPECTION ITEM			ITEM 61			
	DECK ITEMS	G	RADES		a. WATERWAY		
1. WEARING	SURFACE			& CHANNEL PROT.	b. ALIGNMENT		
2. DECK NO.	a. CONCRETE				c. SCOUR		
OF EA TYPE SPN GRADE	b. TIMBER				d. SLOPE PROT., RIF	P-RAP, DIKES, ETC.	
RATES SI & A	c. STEEL PLANK			50. APPROAC	H ROADWAY CONDIT	ION	
ITEM 58	d. OPEN GRID			51. APPROAC	H SLABS		
3. RAILING	a. CONCRETE			52. PAINT SYSTEM CODE			
	b. TIMBER			53. UTILITIES			
	c. ALUMINUM			54. RESPONS	E TO LIVE LOAD		
	d. STEEL			55. ESTIMATE	D REMAINING LIFE		
4. CURBS, WI	HEELGUARDS, PARAPETS, MEDIA	NS					
	S (ON OR ATTACHED TO STRUCT	URE)		60. REGULAT	ORY SIGN NOTICE ISS	SUED	
6. DECK EXP	a. STEEL PL OR FINGER			61. PROMPT-A	ACTION NOTICE ISSUI	ED	
JTS. OR	b. MISC PREFAB			62. PRESENTI	LY POSTED		
DEVICES. NO. OF EACH	c. COMPRESSION SEAL			63. TOT. FIELI	O INSP TIME (INCLUDE	E WRITE UP)(MAN HR)	2
	d. STANDARD JOINTS			64. TOTAL SN	OOPER INSP. TIME (H	IRS)	
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
7. DECK DEBI	RIS (INCLUDES EXCESS SAND/GF	RAVEL)					
		'		7	0. SI&A GENERAL CO	NDITION RATINGS	
S	SUPER STR. (FM. 1 (90)B TRUSS) I	TEM 59		a. DECK		ITEM 58	
10. LONGITUI	DINAL BEAMS OR GIRDERS			b. SUPERSTR	RUCTURE	ITEM 59	
11. LONGITUI	DINAL JOIST OR STRINGERS			c. SUBSTRUCTURE ITEM 60			
12. INT. DIAP	S, X-FRAMES, BRACING & CONN'S	3		d. CHANNEL & CHANNEL PROT. ITEM 61			
13. END DIAP	'S, CURTAIN WALLS, & CONN'S						
14. FLOOR BE	EAMS AND CONNECTIONS				71. SI&A FIELD APP	RAISAL RATINGS	
15. BEARING	ASSEMBLIES (INCLUDING MISALI	GN)		a. WATERWAY ADAQUACY			
16. DRAINAGI	E SYSTEM (ON STRUCTURE)			b. APPR. RDWY. ALIGNMENT			
17. MOVABLE	SPAN MACHINERY						
				72. FIELD SCO	OUR EVALUATION		
SU	B STR. ITEMS. ITEM 60 (INCLUDE	SCOUR)					
35. TIM SUB	a. ABUT. & INT. BENT CAPS & RIS	SERS		U	SE OF INSP. ACCESS	IBILITY EQUIPMENT	
STR.	b. PILES, POST, SILLS, & BRACIN	IG		SNOOPER (C	ODE S, 4, OR N)	HRS	
	c. BULKHEADS, WING'S, & TIE BA	ACKS		LADDER			
36. CONC	a. ABUT. & INT. BENT CAPS			BUCKET TRU	CK		
SUB STR.	b. ABUT. & BENT COL'S BREAST	WALLS		BOAT			
	c. ABUT. & INT. BENT PILES			OTHER			
d. BACKWALLS, WING'S, RETAIN. WALLS							
e. ABUT. & BENT FOOTINGS & SILLS							
37. STEEL a. ABUT. & INT. BENT CAPS & RISERS			SPECIAL INS	PECTION REQUESTED	D FOR		
SUB STR. b. PILES, BRACING, AND BULKHEADS							
38. FOUNDATION PILES TYPE MATERIAL		NOTE					
39. SLOPE PF	ROT., RIP-RAP (INCLUDE DRAINAG	SE)					
40. FENDER S	40. FENDER SYSTEMS			80. INSPECTE	D BY:	in Puch 2 months	
41. DRIFT				81. REVIEWE	D BY:	<u> </u>	

Bridge I&A Form 1(82)H  State of North Carolina  Dept. of Transportation  Division of Highways	FIELD INSPECTION REPORT  Bridge Inspecion & Analysis	
Team Leader DEREK RICKUS		
Assisted By <b>EAP</b>		
Item No. Grade		

## **BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS**

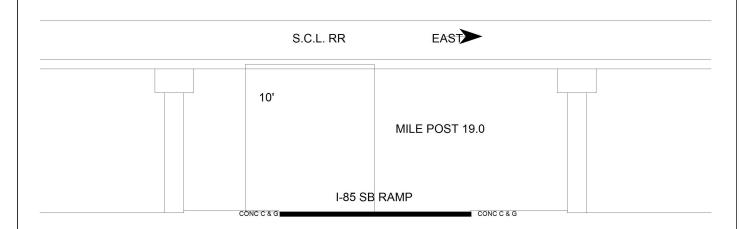
County GASTON Bridge: 350129 Date: 08/26/2014

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	VERTICAL CLR. ONLY	



# **Bridge Inspection Field Sketch**

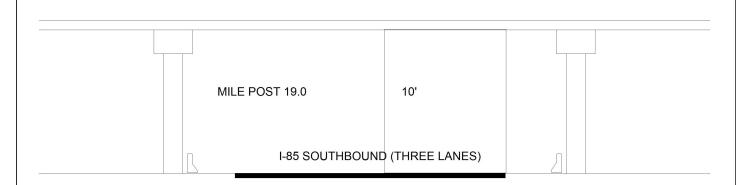


Roadway	20.5ft Wide	1 Paved Lanes	All Lanes	s SouthBound
Left Shoulder	13.917ft Wid	e		
Right Shoulder	12.5ft Wide			
Left Turn Lane(s)				
Right Turn Lane(s)				
Distance to Left Bent	13.917ft			
Distance to Left Toe of Slope				
Distance to Right Bent	12.5ft			
Distance to Right Toe of Slope				
Max. Min. Vertical Clearance	19.333ft	10ft from Left edge	of road	at beam # 5
Minimum Vertical Clearance	19.25ft	Oft from Left edge o	f road	at beam # 5

### VERIFIED BY DEREK RICKUS ON 8/26/2014

Title		Descri	ption						
S.C.L. RAILROAD OVER I-85 RAMP			SPAN 2 OVER SB RAMP						
Bridge No: 350129	Drawn By: DCR		Date: 8/28/08	File Name: S0146030352					

# **Bridge Inspection Field Sketch**

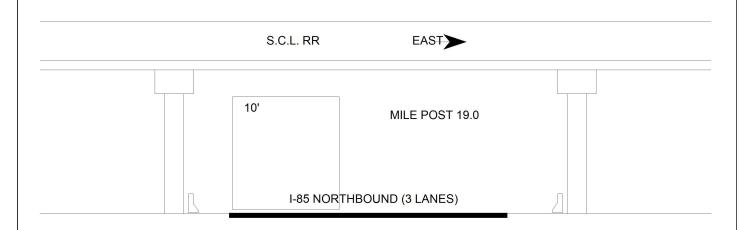


Roadway	36ft Wide	3 Paved Lanes	All Lanes SouthBound
Left Shoulder	6.417ft Wide		Guardrail: 6.417ft from road
Right Shoulder	7ft Wide		Guardrail: 7ft from road
Left Turn Lane(s)			
Right Turn Lane(s)			
Distance to Left Bent	7.917ft		
Distance to Left Toe of Slope			
Distance to Right Bent	8.5ft		
Distance to Right Toe of Slope			
Max. Min. Vertical Clearance	17.667ft	10ft from Right edge	e of road at beam # 5
Minimum Vertical Clearance	16ft	Oft from Left edge o	f road at beam # 5

VERIFIED BY DEREK RICKUS ON 8/26/2014

Title			Description					
S.C.L. RAILROAD OVER I-85 SB			SPAN 3 OVER I-85 SOUTHBOUND					
Bridge No: 350129 Drawn By: DCR			Date: 8/28/08	File Name:S0146030353				

# **Bridge Inspection Field Sketch**



Roadway	36ft Wide	3 Paved Lanes	All Lanes NorthBound
Left Shoulder	7ft Wide		Guardrail: 7ft from road
Right Shoulder	5.75ft Wide		Guardrail: 5.75ft from road
Left Turn Lane(s)			
Right Turn Lane(s)			
Distance to Left Bent	8.5ft		
Distance to Left Toe of Slope			
Distance to Right Bent	7.25ft		
Distance to Right Toe of Slope			
Max. Min. Vertical Clearance	17.8ft	10ft from Left edge	of road at beam # 5
Minimum Vertical Clearance	15.775ft	0ft from Right edge	of road at beam # 5

VERIFIED BY DEREK RICKUS ON 8/26/2014

Title		Description		
S.C.L. RAILROAD OVER I-85 NB		SPAN 4 OVER I-85 NORTHBOUND		
Bridge No: 350129	Drawn By: DCR		Date: 8/28/08	File Name:S0146030354

Structure 350129 County GASTON Date: 08/26/2014 Structure Photos



LOOKING SOUTH



LOOKING NORTH