



NC DEPARTMENT OF TRANSPORTATION ATTENTION  
 DIVISION OF HIGHWAYS  
 BRIDGE MANAGEMENT UNIT

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MECKLENBURG BRIDGE NUMBER 590815 INSPECTION CYCLE 2 YRS

ROUTE I85 NBL RAMP ACROSS I85 NBL RAMP M.P. 29.10

LOCATION .4 MILE E. JCT.SR1625

SUPERSTRUCTURE RC DECK ON PLATE GIRDERS (CONT.), SIP FORMS, APPROACH SLABS

SUBSTRUCTURE EBTS:RC CAPS & STEEL PILES, INT.BTS:RC POST & BEAM, SPRFTG.

SPANS \_\_\_\_\_

LONGITUDE 80° 58' 32.45" LATITUDE 35° 15' 4.23"

INSPECTION DATE 09/09/2013 PRESENT CONDITION FAIR

PRESENT POSTING N **NOT POSTED** PROPOSED POSTING \_\_\_\_\_

OTHER SIGNS PRESENT NONE



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	_____

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	590815		SUFFICIENCY RATING =			96
(8) STRUCTURE NUMBER(FEDERAL)		000000001190815		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		17000850					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2					
(3) COUNTY CODE	119	(4) PLACE CODE	12000	(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED -	I85 NBL RAMP			(104)HIGHWAY SYSTEM	Is on the NHS		1
(7) FACILITY CARRIED	I85 NBL RAMP			(26) FUNCTIONAL CLASS -	Arterial - Interstate		11
(9) LOCATION	0.4 MI. E. JCT. SR1625			(100)STRAHNET HIGHWAY -	Interstate STRAHNET Route		1
(11)MILEPOINT		29.1		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT	35° 15' 4.23"	(17)LONG	80° 58' 32.45"	(102)DIRECTION OF TRAFFIC -	1-way Traffic		1
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(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 -	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 Continuous			(58) DECK			5
TYPE -	Stringer Mutlibeam or Girder	CODE	402	(59) SUPERSTRUCTURE			8
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE			7
TYPE -		CODE	000	(61) CHANNEL & CHANNEL PROTECTION			N
(45) NUMBER OF SPANS IN MAIN UNIT			3	(62) CULVERTS			N
(46) NUMBER OF APPROACH SPANS				LOAD RATING AND POSTING			
(107)DECK STRUCTURE TYPE -	1	CODE		(31) DESIGN LOAD	HS 20 + MOD		6
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(63) OPERATING RATING METHOD -	Load Factor		1
(A) TYPE OF WEARING SURFACE -		CODE		(64) OPERATING RATING -	HS-36		64
(B) TYPE OF MEMBRANE -		CODE		(65) INVENTORY RATING METHOD -	Load Factor		1
(C) TYPE OF DECK PROTECTION -		CODE		(66) INVENTORY RATING -	HS-21		37
				(70) BRIDGE POSTING -	No Posting Required		5
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			A
				DESCRIPTION -	Open, No Restriction		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			2005	(67) STRUCTURAL EVALUATION			7
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY			5
(42) TYPE OF SERVICE : ON -	Overpass - Interchange			(69) UNDERCLEARANCES,VERTI & HORIZ			6
UNDER -	Highway	CODE	61	(71) WATERWAY ADEQUACY			N
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		1	(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC			8250	(36) TRAFFIC SAFETY FEATURES			1111
(30) YEAR OF ADT	2010	(109) TRUCK ADT PCT	16%	(113)SCOUR CRITICAL BRIDGES			N
(19) BYPASS OR DETOUR LENGTH			0 MI	PROPOSED IMPROVEMENTS			
GEOMETRIC DATA				(75) TYPE OF WORK -			CODE
(48) LENGTH OF MAXIMUM SPAN			95 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH			232 FT	(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT	0 FT RIGHT		0 FT	(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			37.333 FT	(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT			40.417 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			36 FT	(114)FUTURE ADT	16500	(115) YEAR FUTURE ADT	2025
(33) BRIDGE MEDIAN -	No Median	CODE	0	INSPECTIONS			
(34) SKEW	61°	(35) STRUCTURE FLARED	0	(90) INSPECTION DATE			09/09/2013
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			37.333 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	Highway		17.417 FT	C) OTHER SPECIAL INSP	NO		C)
(55) MIN LAT UNDERCLEAR RT REF	Highway		12.667 FT	SCOUR			
(56) MIN LAT UNDERCLEAR LT REF -			12 FT	NAVIGATION DATA			
(38) NAVIGATION CONTROL -	Not Applicable	CODE	N	(39) NAVIGATION VERTICAL CLEARANCE			0
(111)PIER PROTECTION -		CODE		(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT
(39) NAVIGATION VERTICAL CLEARANCE			0	(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT				
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT				

Structure No: 590815

County: MECKLENBUR  
G

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1							
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway 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
2	I85N	17000850	17.58	29.10	0			11	1	1030	2012	39.67	H	17.42	12.67	12	9	0	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 12/02/2013

COUNTY : MECKLENBURG      DIVISION : 10      DISTRICT : 2      STRUCTURE NUMBER : 590815      LENGTH : 232 FEET

ROUTE CARRIED : I85 NBL RAMP      FEATURE INTERSECTED : I85 NBL RAMP

LOCATED : 0.4 MI. E. JCT. SR1625      BRIDGE NAME :      CITY : \*CHARLOTTE

FUNC. CLASS : 11      SYST.ON : FA      SYST.UNDER : NFA      ADT & YR : 8250 2010      RAIL TYPE : LT 41 RT 41

BUILT : 2005      BY : DOH      PROJ : 8.U672209      FED.AID PROJ : STP-NHF-117-      DESIGN LOAD : HS 20 + MOD

REHAB :      BY :      PROJ :      ALIGNMENT : RT      SKEW : 149      LANES : ON 2 UNDER 1

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

SUPERSTRUCTURE : RC DECK ON PLATE GIRDERS (CONTINUOUS), SIP FORMS, APPROACH SLABS

SUBSTRUCTURE : EBTS:RC CAPS & STEEL PILES, INT.BTS:RC POST & BEAM, SPREAD FOOTINGS

SPANS : 1@77'7 1/8", 1@94'11 3/4", 1@59'8 9/16" CONTINUOUS, COMPOSITE

BEAMS OR GIRDERS : 4 LINES OF 1/2" X 44.5" CURVED PLATE GIRDERS (CONTINUOUS) @ 11' 0-5/16" CENTERS

FLOOR : 9.25" RC SLAB      ENCROACHMENT :      DECK (OUT TO OUT) : 40.417 FT

CLEAR ROADWAY : 37.333 FT      BETWEEN RAILS : 37.333 FT      SIDEWALK OR CURB : LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-21      OPE.RTG. : HS-36      CONTR.MEMBER :      POSTED : SV      TTST      DATE

SYSTEM : Primary Interstate      GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I85N	17.5830	17.4170	39.6670	12	12.6670

Note: All measurements are in feet.

REMARKS :

# BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection  
 BRIDGE NO. 590815 COUNTY MECKLENBURG ROUTE I85 NBL RAMP OVER I85 NBL RAMP  
 STRUCTURE TYPE RC DECK ON PLATE GIRDERS (CONT.), SIP FORMS, APPROACH SLABS  
 ROUTE ORIENTATION N - S SPANS

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				45. CHANNEL & CHANNEL PROT.	a. WATERWAY					
					b. ALIGNMENT					
					c. SCOUR					
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.					
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58					50. APPROACH ROADWAY CONDITION			G		
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE		3	F	51. APPROACH SLABS			G		
	b. TIMBER				52. PAINT SYSTEM			G		
	c. STEEL PLANK				CODE	T				
	d. OPEN GRID				53. UTILITIES					
3. RAILING	a. CONCRETE			G	54. RESPONSE TO LIVE LOAD			G		
	b. TIMBER				55. ESTIMATED REMAINING LIFE			44		
	c. ALUMINUM									
	d. STEEL									
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS										
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED				NO		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER				61. PROMPT-ACTION NOTICE ISSUED			NO		
	b. MISC PREFAB				62. PRESENTLY POSTED			NO		
	c. COMPRESSION SEAL		2	P	63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			6		
	d. STANDARD JOINTS				64. TOTAL SNOOPER INSP. TIME (HRS)			0		
	e. OPEN JOINTS				65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0		
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)				G	70. SI&A GENERAL CONDITION RATINGS					
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK				ITEM 58	5	
10. LONGITUDINAL BEAMS OR GIRDERS				G	b. SUPERSTRUCTURE				ITEM 59	8
11. LONGITUDINAL JOIST OR STRINGERS					c. SUBSTRUCTURE				ITEM 60	7
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	71. SI&A FIELD APPRAISAL RATINGS					
14. FLOOR BEAMS AND CONNECTIONS					a. WATERWAY ADAQUACY					
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				G	b. APPR. RDWY. ALIGNMENT			8		
16. DRAINAGE SYSTEM (ON STRUCTURE)				G						
17. MOVABLE SPAN MACHINERY					72. FIELD SCOUR EVALUATION					
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)										
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			USE OF INSP. ACCESSIBILITY EQUIPMENT						
	b. PILES, POST, SILLS, & BRACING			SNOOPER (CODE S, 4, OR N)		HRS	NO			
	c. BULKHEADS, WING'S, & TIE BACKS			LADDER		NO				
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS			G	BUCKET TRUCK			NO		
	b. ABUT. & BENT COL'S BREASTWALLS			G	BOAT			NO		
	c. ABUT. & INT. BENT PILES				OTHER			NO		
	d. BACKWALLS, WING'S, RETAIN. WALLS			G						
	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)				G						
40. FENDER SYSTEMS				80. INSPECTED BY:				<i>Ellen Kider</i>		
41. DRIFT				81. REVIEWED BY:						

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		<b>FIELD INSPECTION REPORT</b> <u>Bridge Inspeccion &amp; Analysis</u>	
Team Leader GLEN KIKER			
Assisted By ROBBIE JAMES			
Item No.	Grade		
2a	F	MAP CRACKS IN ALL SPANS UP TO 1/8" WIDE DIAGONAL CRACK IN THE SPAN ENDS UP TO 1/16" WIDE TRANSVERSE CRACKS IN ALL SPANS UP TO 1/16" WIDE HL. CRACKS IN BOTH OVERHANGS WITH EFFLO.	
3a	G	VERTICAL HL. CRACKS IN BOTH RAILS	
6c	P	STAINS ON ABUT. 2 CAP DUE TO THE EXPANSION JOINT LEAKING, ABUT. 1 JOINT APPEARS GOOD	
10A	NO	NO CURVED GIRDERS	
36a	G	HL. DIAGONAL CRACKS IN ALL CAP STEPUPS	
36d	G	VERTICAL CRACKS IN BOTH ABUTMENT BACKWALLS UP TO 1/16" WIDE	

# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 590815

County MECKLENBURG


Date: 09/09/2013


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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3312	Maint/Replace/Repair Modular Bridge Joints	LF	40	ABUT. 2 JOINT IS DAMAGED AND LEAKING	
3326	Maintain Concrete Deck	SF	1500	CRACKS IN TOP OF THE DECK	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined



CRACKS IN THE SPAN ENDS



TRANSVERSE CRACKS IN ALL SPANS





CRACKS IN BOTH RAILS



MAP CRACKS IN ALL SPANS UP TO 1/8" WIDE



CRACKS IN BOTH ABUTMENT BACKWALLS



CRACKS IN BOTH OVERHANGS



HL. DIAGONAL CRACKS IN ALL CAP STEPUPS

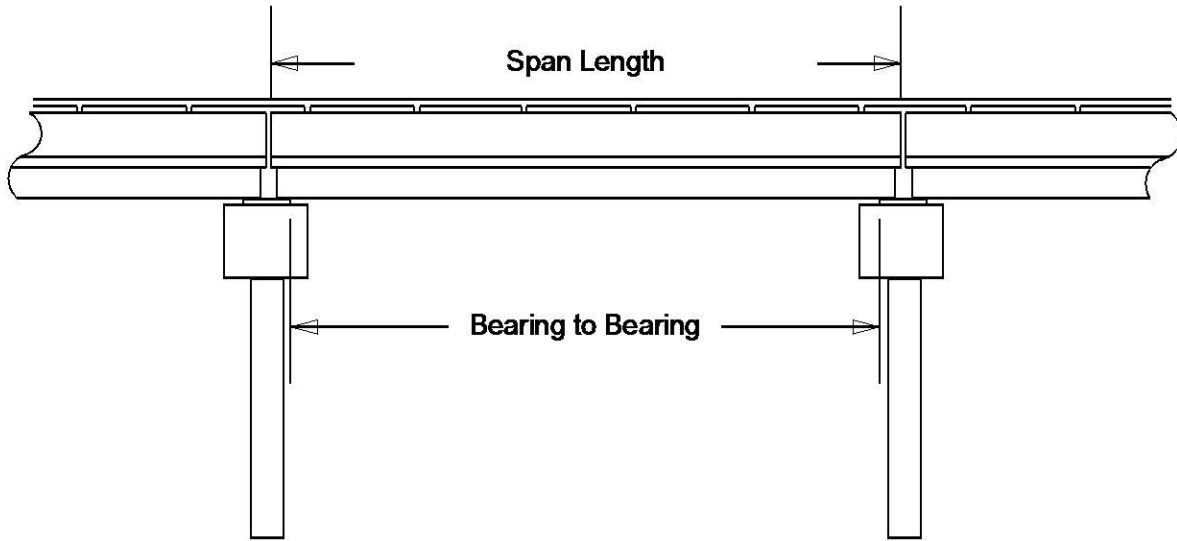


STAINS ON ABUT. 2 CAP DUE TO DAMAGED JOINT

# Structure Data Worksheet

Spans

County: MECKLENBURG      Structure No: 590815      Date: 09/09/2013      Inspected By: RGK



Span No	Span Length	Bearing to Bearing	Comments
1	77.593	75.426	NBIS BL = 228.285FT.
2	94.979	94.979	MEASURMENTS VERIFIED 09/9/13 GLEN KIKER
3	59.713	57.546	

# Stream Bed Soundings

**(See next sheet for profile sketch)**

Bridge No: 590815 County: MECKLENBURG Date: 09/09/2013 By: RGK


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

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)

 Water Surface

Sounding (FT)

Distance (FT)

# Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide	6ft Paved	
Right Shoulder	6ft Wide	6ft Paved	
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED 09/9/13 GLEN KIKER

**Title**  
APPROACH ROADWAY

**Description**  
SHEET 1

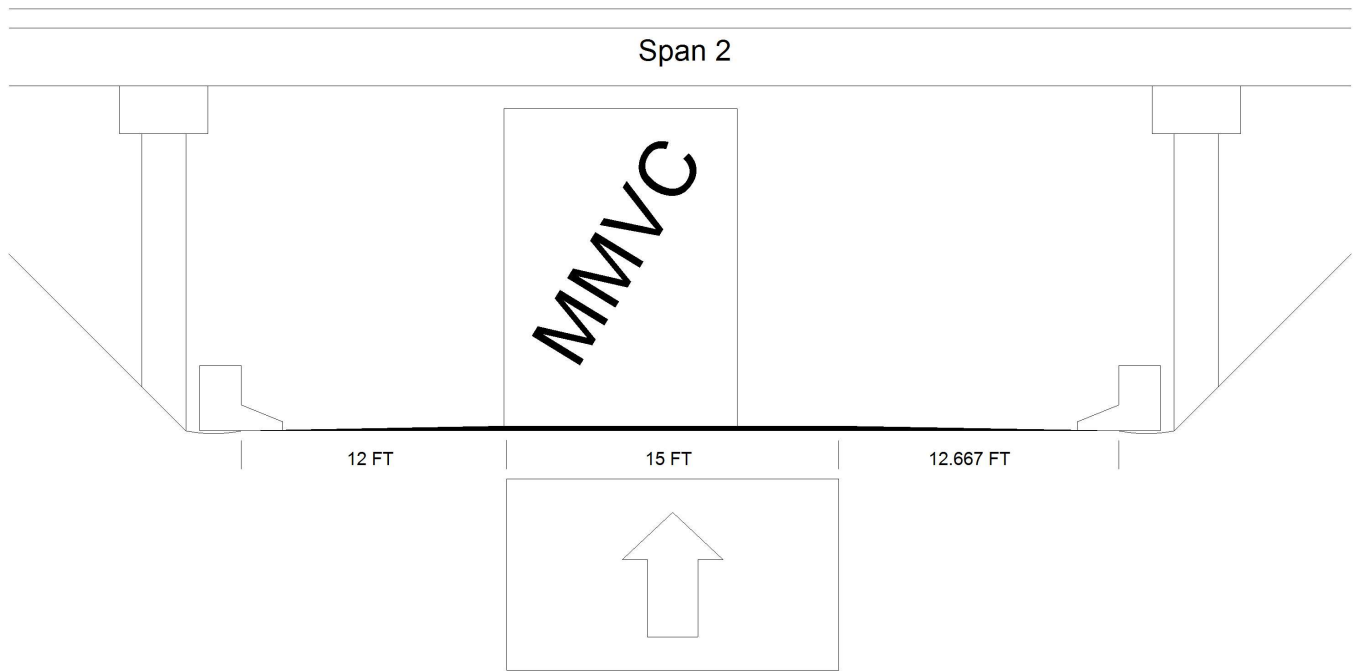
**Bridge No:** 590815

**Drawn By:** STEVE AUSTIN

**Date:** 09/12/2011

**File Name:** S0082001937

# Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	West
Distance to Left Rail	12FT	Distance to Right Rail	12.667FT
Distance to Left Toe of Slope	14.5FT	Distance to Left Bent	14.5FT
Distance to Right Toe of Slope	15.167FT	Distance to Right Bent	15.167FT
MMVC	17.583 Ft at Beam 1, 10 FT from LEFT EDGE OF RDWY.		
MVC	17.417 Ft at Beam 1, 0 FT from RIGHT EDGE OF RDWY.		

MEASURMENTS VERIFIED 09/9/13 GLEN KIKER

**Title**  
UNDERCLEARANCE

**Description**  
SHEET 3

**Bridge No:** 590815

**Drawn By:** STEVE AUSTIN

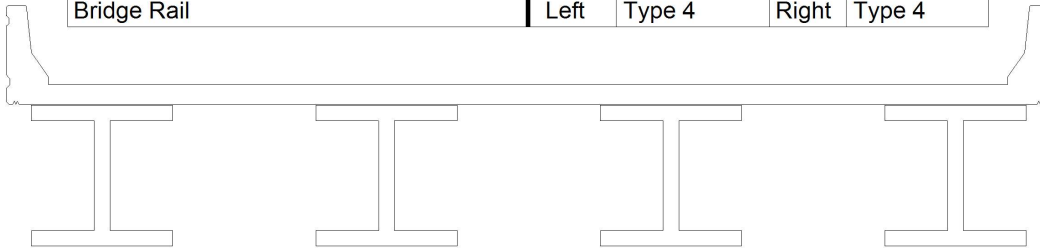
**Date:** 09/12/2011

**File Name:** S0082001939



# Bridge Inspection Field Sketch

Deck Width/Out to Out	40.417ft	Between Rails	37.333ft		
Clear Roadway	37.333ft	Wearing Surface			
Median Width		Median Height			
Curb Height		Left	Right		
Sidewalk Width		Left	Right		
Clear Roadway (Rail to Median)		Left	18.666ft	Right	18.666ft
Guardrail Width		Left	1.417ft	Right	1.417ft
Top of Rail to Deck/Wearing Surface		Left	2.667ft	Right	2.667ft
Bridge Rail		Left	Type 4	Right	Type 4



Measurements for Span #	3		
Deck Thickness	0.77	Left Overhang	3.711
Top of Rail to Bottom of Beam	47.167	Right Overhang	3.711

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	11.026ft	ALL SPANS SIMILAR
2	Steel I Beam	11.026ft	
3	Steel I Beam	11.026ft	
4	Steel I Beam	ft	

MEASUREMENTS VERIFIED 09/9/13 GLEN KIKER

EBTS:RC CAPS/STEEL PILES

GIRDER DETAIL = 1/2 X 44.5 CURVED PL GIRDERS (CONT.)

**Title**  
TYPICAL SECTION

**Description**  
SHEET 2

Bridge No: 590815

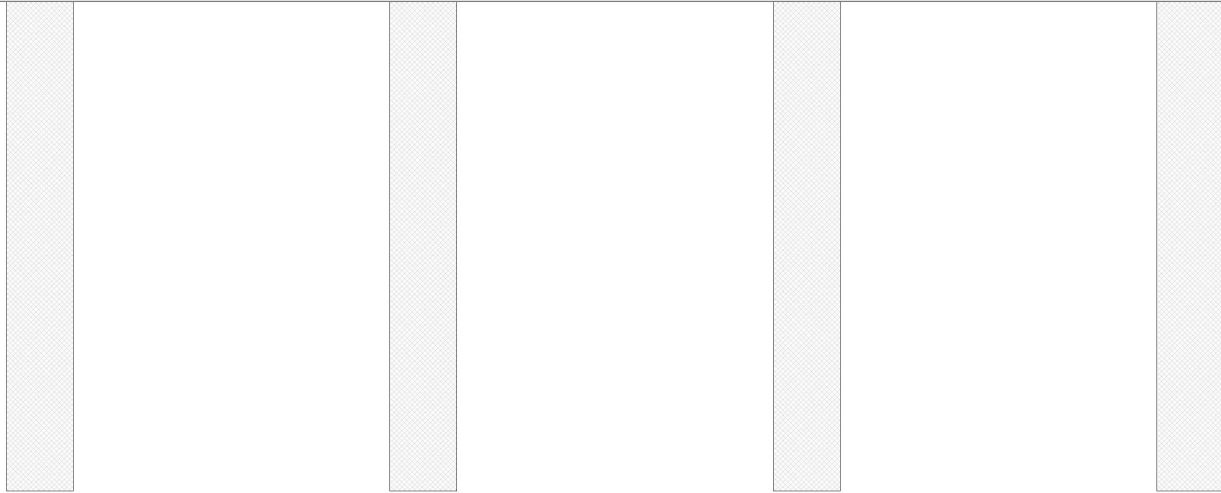
Drawn By: STEVE AUSTIN

Date: 09/12/2011

File Name: S0082001938

# Bridge Inspection Field Sketch

MEASUREMENTS VERIFIED 09/9/13 GLEN KIKER



<b>Cap Information</b>			<b>Material</b> Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
70.000 ft.	4.000 ft.	3.500 ft.	5.000 ft.	5.000 ft.	2.000 ft.	2.000 ft.				
<b>Subcap Information</b>			<b>Material</b>							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
<b>Sill Information</b>			<b>Material</b>							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	20 ft.	3.5 ft.			Vertical	No	No	No	No
2	Concrete	20 ft.	3.5 ft.			Vertical	No	No	No	No
3	Concrete	20 ft.	3.5 ft.			Vertical	No	No	No	No
4	Concrete		3.5 ft.			Vertical	No	No	No	No
<b>Bent/Abutment #:</b> 1			<b>Similar Bents:</b> 2							

<b>Title</b> PIERS			<b>Description</b> SHEET 4			
<b>Bridge No:</b> 590815	<b>Drawn By:</b> STEVE AUSTIN	<b>Date:</b> 9/12/2011	<b>File Name:</b> S0082002564			



GUARD RAIL TERMINAL END AT THE SE END SW AND NW SIMILAR



LOOKING NORTH



GUARD RAIL LOOKING NORTH



EXPANSION JOINTS AT BOTH ABUTMENTS



GUARD RAIL LOOKING SOUTH



GUARD RAIL CONNECTION SE CORNER SW AND NW SIMILAR



GUARD RAIL POST SPACING AT THE SE CORNER SW AND NW SIMILAR



GUARD RAIL POST SPACING IN THE MIDDLE



BEARINGS



PIER 1 LOOKING NORTH



ABUTMENT 1 ABUTMENT 2 SIMILAR



SUPERSTRUCTURE





LOOKING WEST



WEST OPENING, SPAN 2



LOOKING EAST



EAST OPENING