



NC DEPARTMENT OF TRANSPORTATION ATTENTION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MECKLENBURG BRIDGE NUMBER 590067 INSPECTION CYCLE 2 YRS
 ROUTE SR1625 ACROSS I85 M.P. 0

LOCATION 0.1 MI. N. JCT. SR1921

SUPERSTRUCTURE RC DECK ON PPC GIRDER, SIP FORMS, APPROACH SLABS

SUBSTRUCTURE EBTS:RC CAP & STEEL PILES,INTBTS:RC POST & BEAM W/PILE FTGS

SPANS 1@26'11", 2@75'0", 1@35'6", COMPOSITE

LONGITUDE 80° 58' 57.03" LATITUDE 35° 15' 15.33"

INSPECTION DATE 06/24/2014 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	590067		SUFFICIENCY RATING =			98
(8) STRUCTURE NUMBER(FEDERAL)		000000001190067		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31016250					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2					
(3) COUNTY CODE	119	(4) PLACE CODE	12000	(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - I85				(104)HIGHWAY SYSTEM	Is not on NHS		0
(7) FACILITY CARRIED SR1625				(26) FUNCTIONAL CLASS -	Collector		17
(9) LOCATION 0.1 MI. N. JCT. SR1921				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(11)MILEPOINT			0	(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 35° 15' 15.33"	(17)LONG	80° 58' 57.03"		(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -			
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network		0
				(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: Prestressed Concrete				(58) DECK			6
TYPE - Stringer Mutlibeam or Girder		CODE	502	(59) SUPERSTRUCTURE			7
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE			6
TYPE -		CODE	000	(61) CHANNEL & CHANNEL PROTECTION			N
(45) NUMBER OF SPANS IN MAIN UNIT			4	(62) CULVERTS			N
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE - 1		CODE		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	HS 20 + MOD		6
(A) TYPE OF WEARING SURFACE -		CODE		(63) OPERATING RATING METHOD -	Load Factor		1
(B) TYPE OF MEMBRANE -		CODE		(64) OPERATING RATING -	HS-47		85
(C) TYPE OF DECK PROTECTION -		CODE		(65) INVENTORY RATING METHOD -	Load Factor		1
				(66) INVENTORY RATING -	HS-26		46
				(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			1992	(67) STRUCTURAL EVALUATION			6
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY			6
(42) TYPE OF SERVICE : ON -	Overpass - Interchange			(69) UNDERCLEARANCES,VERTI & HORIZ			5
UNDER - Highway		CODE	61	(71) WATERWAY ADEQUACY			N
(28) LANES: ON STRUCTURE	3 UNDER STRUCTURE		8	(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC			7850	(36) TRAFFIC SAFETY FEATURES			1100
(30) YEAR OF ADT 2012	(109) TRUCK ADT PCT		7%	(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			74 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH			212 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			50 FT	(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT			53.083 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			44 FT	(114)FUTURE ADT	15700	(115) YEAR FUTURE ADT	2025
(33) BRIDGE MEDIAN - No Median		CODE	0	INSPECTIONS			
(34) SKEW 4°	(35) STRUCTURE FLARED		0	(90) INSPECTION DATE			06/24/2014
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			50 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			16.75 FT	C) OTHER SPECIAL INSP	NO		C)
(55) MIN LAT UNDERCLEAR RT REF Highway			12 FT	SCOUR			
(56) MIN LAT UNDERCLEAR LT REF -			8.667 FT				
NAVIGATION DATA							
(38) NAVIGATION CONTROL - Not Applicable		CODE	N				
(111)PIER PROTECTION -		CODE					
(39) NAVIGATION VERTICAL CLEARANCE			0				
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT				
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT				

Structure No: 590067

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	11000850	17.08	01		10085		11	4	63500	2012	68.67	H	16.75	12	8.67	9	1	1	1
3	I85S	11000850	19.67	01		10085		11	4	63500	2012	69.33	H	18.42	12.67	8.67	9	1	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: 07/17/2014

COUNTY : MECKLENBURG DIVISION : 10 DISTRICT : 2 STRUCTURE NUMBER : 590067 LENGTH : 212 FEET

ROUTE CARRIED : SR1625 FEATURE INTERSECTED : I85

LOCATED : 0.1 MI. N. JCT. SR1921 BRIDGE NAME : CITY : *CHARLOTTE

FUNC. CLASS : 17 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 7850 2012 RAIL TYPE : LT 41 RT 41

BUILT : 1992 BY : DOH PROJ : 8.T672502 FED.AID PROJ : I-HR-85-1(76) DESIGN LOAD : HS 20 + MOD

REHAB : BY : PROJ : ALIGNMENT : RT SKEW : 94 LANES : ON 3 UNDER 8

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

SUPERSTRUCTURE : RC DECK ON PRECAST PRESTRESSED CONCRETE GIRDERS, SIP FORMS, APPROACH SLABS

SUBSTRUCTURE : END BENTS:RC CAP & STEEL PILES, INTERIOR BENTS:3 COLUMN, RC POST & BEAM, PILE FOOTINGS

SPANS : 1@26'11", 2@75'0", 1@35'6" SIMPLE, COMPOSITE

BEAMS OR GIRDERS : 7 LINES OF PRECAST PRESTRESSED CONCRETE GIRDERS @ VARIOUS CENTERS, SP#1&4:36" GDRS, SP#2&3:54" GDRS

FLOOR : 8 1/2" RC SLAB ENCROACHMENT : 1 LINE 8" GAS DECK (OUT TO OUT) : 53.083 FT

CLEAR ROADWAY : 50 FT BETWEEN RAILS : 50 FT SIDEWALK OR CURB : LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-26 OPE.RTG. : HS-47 CONTR.MEMBER : intgd(A)LR POSTED : SV TTST DATE

SYSTEM : Primary S.R. Route GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I85N	17.0830	16.75	68.6670	8.6670	12
3	I85S	19.6670	18.4170	69.3340	8.6670	12.6670

Note: All measurements are in feet.

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 590067 COUNTY MECKLENBURG ROUTE SR1625 OVER I85
 STRUCTURE TYPE RC DECK ON PPC GIRDERS, SIP FORMS, APPROACH SLABS
 ROUTE ORIENTATION N - S SPANS 1@26'11", 2@75'0", 1@35'6", COMPOSITE

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM				ITEM 61					
DECK ITEMS			GRADES	45. CHANNEL & CHANNEL PROT.		a. WATERWAY			
1. WEARING SURFACE				45. CHANNEL & CHANNEL PROT.		a. WATERWAY			
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58			b. ALIGNMENT						
a. CONCRETE			4			F	c. SCOUR		
b. TIMBER							d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
c. STEEL PLANK					50. APPROACH ROADWAY CONDITION			F	
d. OPEN GRID					51. APPROACH SLABS			F	
3. RAILING				52. PAINT SYSTEM		CODE			
a. CONCRETE			G			53. UTILITIES			G
b. TIMBER						54. RESPONSE TO LIVE LOAD			G
c. ALUMINUM						55. ESTIMATED REMAINING LIFE			34
d. STEEL			G						
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			5			F	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	6		
10. LONGITUDINAL BEAMS OR GIRDERS				G	b. SUPERSTRUCTURE		ITEM 59	7	
11. LONGITUDINAL JOIST OR STRINGERS					c. SUBSTRUCTURE		ITEM 60	6	
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 BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS					
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				G	a. WATERWAY ADAQUACY				
16. DRAINAGE SYSTEM (ON STRUCTURE)				G	b. APPR. RDWY. ALIGNMENT		8		
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		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>Helen K...</i>			
41. DRIFT				81. REVIEWED BY:					

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 GLEN KIKER			
Assisted By ROBBIE JAMES			
Item No.	Grade		
2a	F	HL. LONGT. CRACKS IN THE SPAN ENDS HL. MAP CRACKS IN ALL SPANS	
3a	G	HL. VERTICAL CRACKS IN BOTH RAILS	
6c	F	ALL EXPANSION JOINTS ARE SETTLED AND LEAKING	
10A	NO	NO CURVED GIRDERS	
36a	F	HL. DIAGONAL CRACKS IN THE SOUTH FACE OF PIER 2 CAP ABOVE COLUMN 3 CRACKS IN THE SOUTH FACE OF PIER 1 CAP OVER COLUMN 3 UP TO 1/16" WIDE	
36d	G	HL. DIAGONAL CRACKS IN BOTH ABUTMENT BACKWALLS	
50	F	BOTH APPROACH ROADWAYS HAVE POTHOLES UP TO 3" DEEP X 1 FT. IN DIA. AND ARE CRACKED AND BREAKING UP AT THE APPROACH SLAB	
51	F	HL. TO 1/16" WIDE LONGT. CRACKS IN BOTH APPROACH SLABS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 590067

County MECKLENBURG

Date: 06/24/2014

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	30	BOTH APPROACH ROADWAYS DAMAGED AT THE APPROACH SLAB	
3310	Maintenance/Repair/Replacement of Standard Bridge Expansion Joints	LF	265	ALL EXPANSION JOINTS HAVE SETTLED	
3326	Maintain Concrete Deck	SF	800	CRACKS IN THE TOP OF THE DECK	
3348	Maintain Concrete Substructure Components	LF	30	CRACKS IN THE PIER CAPS	
3353	Maintenance or Repair of Concrete Bridge Approach Slabs	EA	2	CRACKS IN BOTH APPROACH SLABS	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



HL. DIAGONAL CRACKS IN THE SOUTH FACE OF PIER 2 CAP ABOVE COLUMN 3



HL. DIAGONAL CRACKS IN BOTH ABUTMENT BACKWALLS



ALL EXPANSION JOINTS ARE SETTLED AND LEAKING



HL. TO 1/16" WIDE LONGT. CRACKS IN BOTH APPROACH SLABS



HL. LONGT. CRACKS IN THE SPAN ENDS



BOTH APPROACH ROADWAYS HAVE POTHOLES UP TO 3" DEEP X 1 FT. IN DIA. AND ARE CRACKED AND BREAKING UP AT THE APPROACH SLAB



HL. MAP CRACKS IN ALL SPANS



HL. VERTICAL CRACKS IN BOTH RAILS

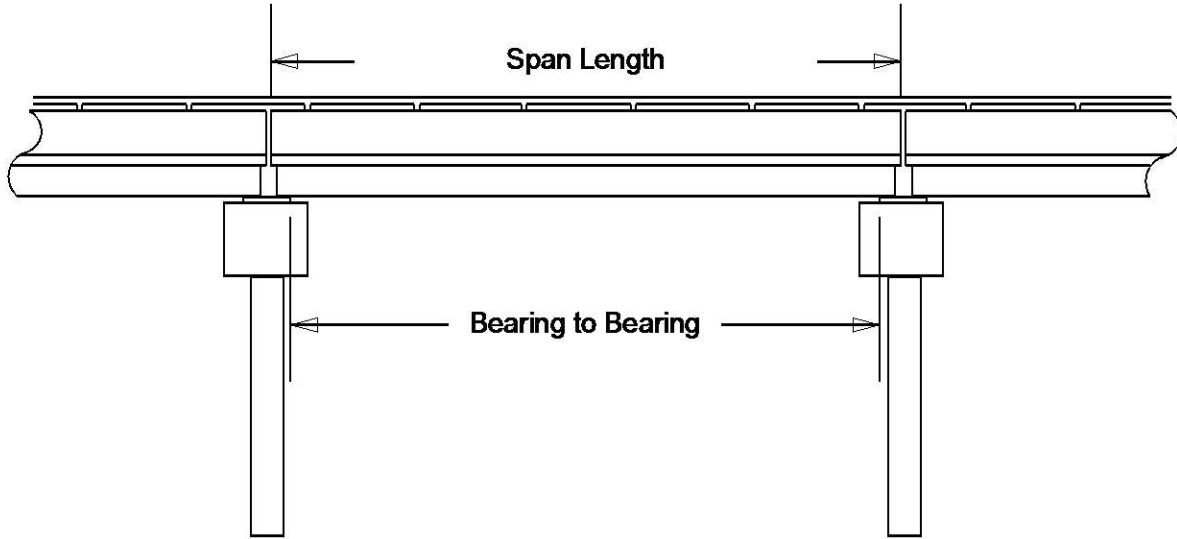


CRACKS IN THE SOUTH FACE OF PIER 1 CAP OVER COLUMN 3 UP TO 1/16" WIDE

Structure Data Worksheet

Spans

County: MECKLENBURG Structure No: 590067 Date: 06/24/2014 Inspected By: RGK



Span No	Span Length	Bearing to Bearing	Comments
1	26.917 ft.	24.584	NBIS BL = 212.417
2	75 ft.	73.667	MEASUREMENTS VERIFIED 6/24/14 ROBBIE JAMES
3	75 ft.	73.667	
4	35.5 ft.	33.167	

Bridge Inspection Field Sketch



Roadway	36ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide	4ft Paved	
Right Shoulder	4ft Wide	4ft Paved	
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED 6/24/14 ROBBIE JAMES

Title

APPROACH ROADWAY

Description

SHEET 1

Bridge No: 590067

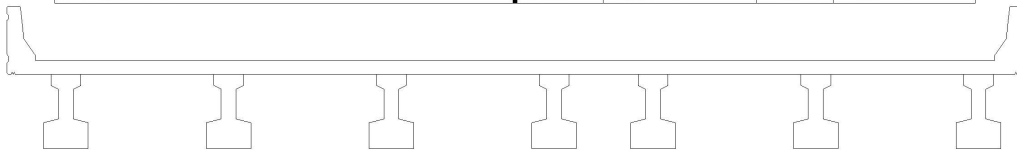
Drawn By: STEVE AUSTIN

Date: 07/09/2010

File Name: S0082001223

Bridge Inspection Field Sketch

Deck Width/Out to Out	53.083ft	Between Rails	50ft
Clear Roadway	50ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	0.25ft
		Right	0.25ft
Sidewalk Width		Left	
		Right	
Clear Roadway (Rail to Median)		Left	
		Right	
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 #	1		
Deck Thickness	0.708	Left Overhang	3.083
Top of Rail to Bottom of Beam	6.375	Right Overhang	3.333

Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	8.5ft	ALL SPANS SIMILAR
2	PPC Girder	8.5ft	
3	PPC Girder	8.5ft	
4	PPC Girder	5.167ft	
5	PPC Girder	8.5ft	
6	PPC Girder	8.5ft	
7	PPC Girder	ft	

GIRDER DETAIL=
 SPANS # 1 & 4 = 3FT. P.P.C GIRDERS
 SPANS # 2 & 3 = 4.5FT. P.P.C GIRDERS

EBTS:RC CAP & STEEL PILES

DIAPHRAGMS LOCATED @ 1/2 PTS IN SPAN 2 & 3

MEASUREMENTS VERIFIED 6/24/14 ROBBIE JAMES

Title

TYPICAL SECTION

Description

SHEET 2

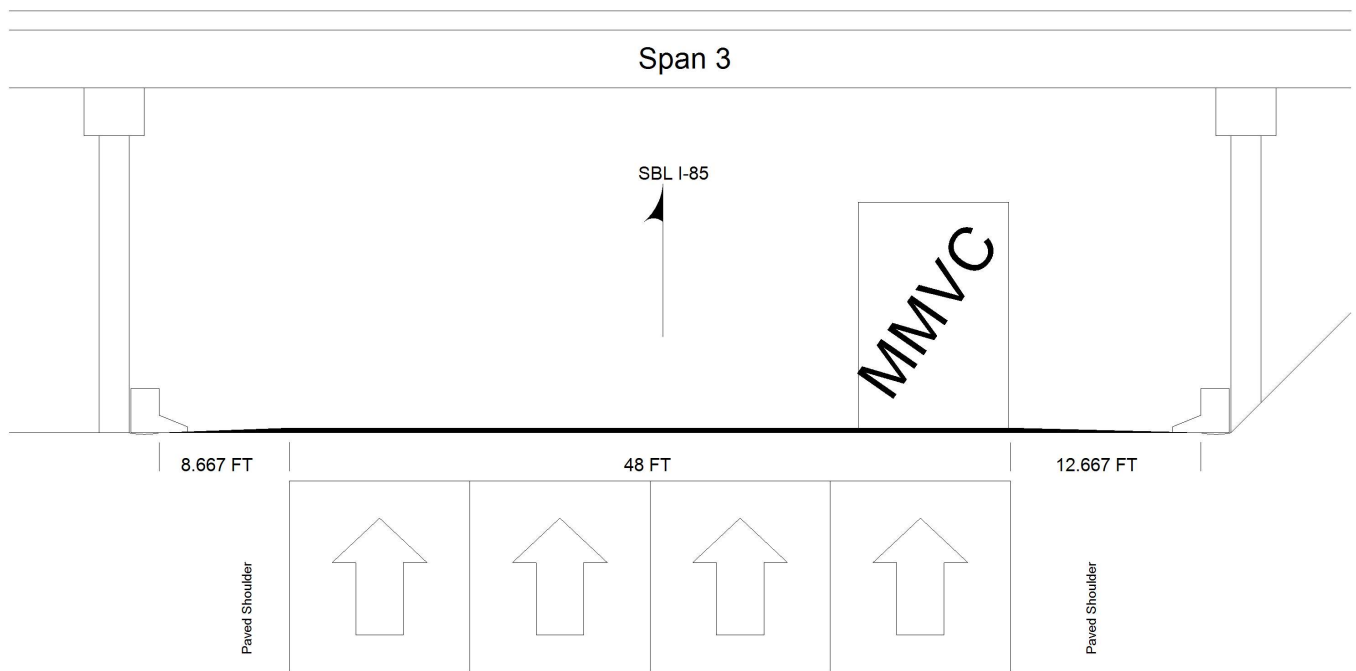
Bridge No: 590067

Drawn By: STEVE AUSTIN

Date: 07/09/2010

File Name: S0082001224

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	South
Distance to Left Rail	8.667FT	Distance to Right Rail	12.667FT
Distance to Left Toe of Slope		Distance to Left Bent	10.667FT
Distance to Right Toe of Slope	14.667FT	Distance to Right Bent	14.667FT
MMVC	19.667 Ft at Beam 7, 10 FT from RIGHT EDGE OF RDWY		
MVC	18.417 Ft at Beam 7, 0 FT from LEFT EDGE OF RDWY		

MEASUREMENTS VERIFIED 6/24/14 ROBBIE JAMES

Title
UNDER CLEARANCE

Description
SHEET 3

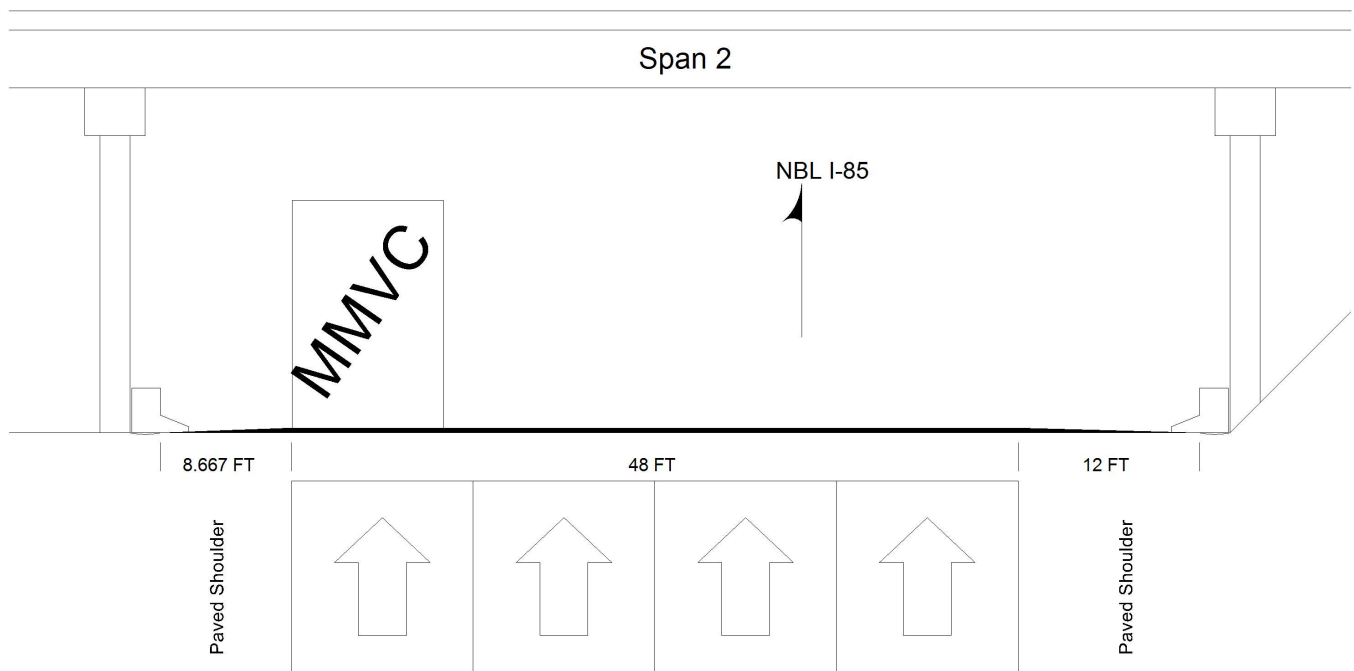
Bridge No: 590067

Drawn By: STEVE AUSTIN

Date: 07/09/2010

File Name: S0082001225

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	8.667FT	Distance to Right Rail	12FT
Distance to Left Toe of Slope		Distance to Left Bent	10.667FT
Distance to Right Toe of Slope	14FT	Distance to Right Bent	14FT
MMVC	17.083 Ft at Beam 7, 10 FT from LEFT EDGE OF RDWY		
MVC	16.75 Ft at Beam 7, 0 FT from RIGHT EDGE OF RDWY		

MEASUREMENTS VERIFIED 6/24/14 ROBBIE JAMES

Title

UNDERCLEARANCE

Description

SHEET 4

Bridge No: 590067

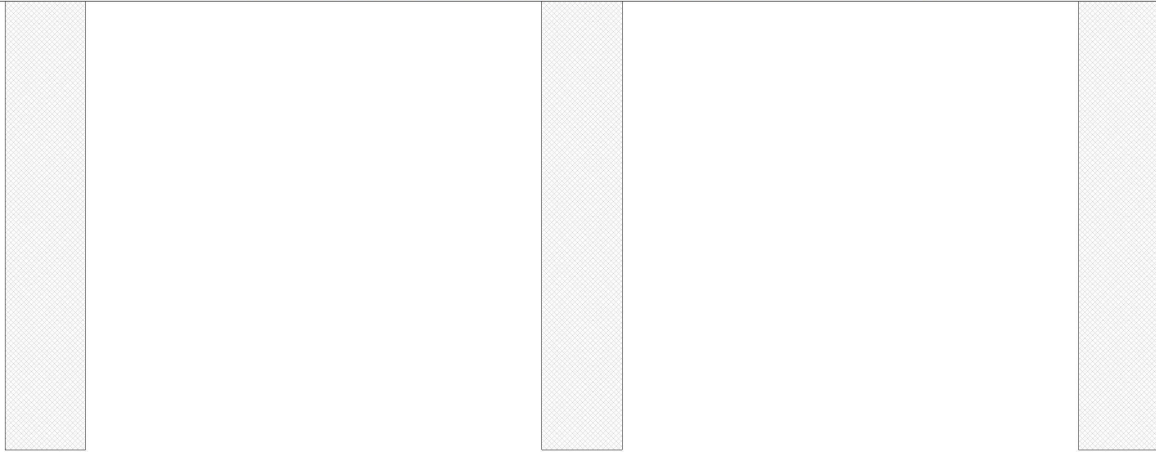
Drawn By: STEVE AUSTIN

Date: 07/09/2010

File Name: S0082001226

Bridge Inspection Field Sketch

MEASUREMENTS VERIFIED 6/24/14 ROBBIE JAMES



Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
50.000 ft.	3.500 ft.	4.000 ft.	5.000 ft.	5.000 ft.	2.000 ft.	2.000 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	Concrete	20 ft.	3 ft.			Vertical	No	No	No	No
2	Concrete	20 ft.	3 ft.			Vertical	No	No	No	No
3	Concrete		3 ft.			Vertical	No	No	No	No
Bent/Abutment #: 1			Similar Bents: 2							

Title PIERS	Description SHEET 5
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Bridge No: 590067	Drawn By: STEVE AUSTIN	Date: 07/09/2010	File Name: S0082002250
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LOOKING EAST



EAST OPENING, SPAN 2



ABUTMENT 1 ABUTMENT 2 SIMILAR



PIER 1 LOOKING NORTH



SUPERSTRUCTURE



1 - 8" UTILITY IN BAY 5



BEARINGS



LOOKING NORTH



GUARD RAIL LOOKING NORTH RAMP LOOKING NORTH



GUARD RAIL POST SPACING IN THE MIDDLE



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



GUARD RAIL CONNECTION SE CORNER NE AND NW SIMILAR



EXPANSION JOINTS AT THE ABUTMENTS AND PIERS



GUARD RAIL LOOKING SOUTH RAMP'S LOOKING SOUTH



RAMPS LOOKING EAST



RAMPS LOOKING WEST



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



LOOKING SOUTH



LOOKING WEST



WEST OPENING, SPAN 3