NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MECKLENBURG BRIDGE NUMBER 590819 INSPECTION CYCLE 2 YRS

ROUTE I85 ACROSS I485 M.P. 30100

LOCATION 1.0 MI. E. JCT.SR1625

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

SUBSTRUCTURE EBTS:RC CAPS & STEEL PILES, INT.BTS:RC CAPS ON DRILLED PIERS

SPANS 1@104'1 3/4, 1@97'5 1/2, 1@132'9 5/16 CONTINUOUS, COMPOSITE

LONGITUDE 80° 58' 7.08" LATITUDE 35° 14' 56.22"

INSPECTION DATE 09/09/2013 PRESENT CONDITION GOOD

PRESENT POSTING Not Posted NOT POSTED. PROPOSED POSTING

OTHER SIGNS PRESENT NONE

LOOKING NORTH

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

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

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 590819
(8) STRUCTURE NUMBER(FEDERAL) 000000001190819
(5) INVENTORY ROUTE (ON/UNDER) - ON 11000850
(2) STATE HIGHWAY DEPARTMENT DISTRICT 2
(3) COUNTY CODE 119 (4) PLACE CODE 12000
(6) FEATURE INTERSECTED - I485
(7) FACILITY CARRIED I85
(9) LOCATION 1.0 MI. E. JCT.SR1625
(11)MILEPOINT 30.1
(16)LAT 35° 14' 56.22" (17)LONG 80° 58' 7.08"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel Continuous
TYPE - Stringer Mutlibeam or Girder CODE 402
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 3
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 1 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

AGE AND SERVICE

(27) YEAR BUILT 2005
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Overpass - Interchange
UNDER - Highway CODE 61
(28) LANES: ON STRUCTURE 10 UNDER STRUCTURE 9
(29) AVERAGE DAILY TRAFFIC 112500
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 16%
(19) BYPASS OR DETOUR LENGTH 0 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 131 FT
(49) STRUCTURE LENGTH 334 FT
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT 0 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 150.483 FT
(52) DECK WIDTH OUT TO OUT 156.522 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 128 FT
(33) BRIDGE MEDIAN - No Median CODE 3
(34) SKEW 20° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 75.167 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Highway 21 FT
(55) MIN LAT UNDERCLEAR RT REF Highway 14 FT
(56) MIN LAT UNDERCLEAR LT REF - 19 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

SUFFICIENCY RATING = 83.72
STATUS = Not Deficient

CLASSIFICATION CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is on the NHS 1
(26) FUNCTIONAL CLASS - Arterial - Interstate 11
(100)STRAHNET HIGHWAY - Interstate STRAHNET Route 1
(101)PARALLEL STRUCTURE - No Parallel Structure N
(102)DIRECTION OF TRAFFIC - 2-way Traffic 2
(103)TEMPORARY STRUCTURE -
(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

CONDITION CODE

(58) DECK 7
(59) SUPERSTRUCTURE 8
(60) SUBSTRUCTURE 7
(61) CHANNEL & CHANNEL PROTECTION N
(62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD HS 20 + MOD 6
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-55 99
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-37 67
(70) BRIDGE POSTING - No Posting Required 5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED A
DESCRIPTION - Open, No Restriction

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 7
(68) DECK GEOMETRY 9
(69) UNDERCLEARANCES,VERTI & HORIZ 6
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 1111
(113)SCOUR CRITICAL BRIDGES N

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114)FUTURE ADT 225000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 09/09/2013
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - NO B)
C) OTHER SPECIAL INSP NO C)
SCOUR

Structure No: 590819 County: MECKLENBURG 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					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
1	I485S	17004850	17.25	10.20	0			11	3	4000	2010	58	H	17	25	9	9	1	1	1
2	I485S	11004850	19.5	10.20	1	90117		11	3	31250	2012	85	H	19.08	30	19	9	1	1	1
3	I485N	11004850	21.5	10.20	1	90117		11	3	31250	2012	69	H	21	14	19	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: 10/09/2013

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
MECKLENBURG	10	2	590819	334 FEET

ROUTE CARRIED : I85

FEATURE INTERSECTED : I485

LOCATED : 1.0 MI. E. JCT.SR1625

BRIDGE NAME :

CITY : *CHARLOTTE

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
11	FA	NFA	112500 2012	LT 41 RT 41

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
2005	DOH	8.U672209	STP-NHF-117-1 (41)	HS 20 + MOD

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN	70	ON 10 UNDER 9

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

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

SUBSTRUCTURE : END BENTS:RC CAPS ON STEEL PILES, INTERIOR BENTS:RC CAPS ON DRILLED PIERS

SPANS : 1@104'1 3/4", 1@97'5 1/2", 1@132'9 5/16" CONTINUOUS, COMPOSITE

BEAMS OR GIRDERS : 15 LINES OF 9/16" X 52" PLATE GIRDERS (CONTINUOUS) @ VARIOUS CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
10 1/4" RC SLAB	1 LINE ELECTRIC AL CONDUIT	156.522 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
150.483 FT	153.483 FT	LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-37	HS-55	Cont Gir	SV	TTST	DATE

SYSTEM : Primary Interstate

GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
1	I485S	17.25	17	58	9	25
2	I485S	19.50	19.0830	85	19	30
3	I485N	21.50	21	69	19	14

Note: All measurements are in feet.

REMARKS :

BRIDGE I & A FORM1 (90)A

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
BRIDGE NO. 590819 COUNTY MECKLENBURG ROUTE I85 OVER I485
STRUCTURE TYPE RC DECK ON PLATE GIRDERS (CONT.), SIP FORMS, APPROACH SLABS
ROUTE ORIENTATION N - S SPANS 1@104'1 3/4, 1@97'5 1/2, 1@132'9 5/16 CONTINUOUS, COMPOSITE

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

INSPECTION ITEM			
DECK ITEMS			GRADES
1. WEARING SURFACE			
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	3	G
	b. TIMBER		
	c. STEEL PLANK		
	d. OPEN GRID		
3. RAILING	a. CONCRETE		G
	b. TIMBER		
	c. ALUMINUM		
	d. STEEL		
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)			
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER		
	b. MISC PREFAB	2	G
	c. COMPRESSION SEAL		
	d. STANDARD JOINTS		
	e. OPEN JOINTS		G
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			G
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59			
10. LONGITUDINAL BEAMS OR GIRDERS			G
11. LONGITUDINAL JOIST OR STRINGERS			
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			G
13. END DIAP'S, CURTAIN WALLS, & CONN'S			G
14. FLOOR BEAMS AND CONNECTIONS			
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			G
16. DRAINAGE SYSTEM (ON STRUCTURE)			G
17. MOVABLE SPAN MACHINERY			
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)			
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		
	b. PILES, POST, SILLS, & BRACING		
	c. BULKHEADS, WING'S, & TIE BACKS		
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		G
	b. ABUT. & BENT COL'S BREASTWALLS		G
	c. ABUT. & INT. BENT PILES		
	d. BACKWALLS, WING'S, RETAIN. WALLS		G
	e. ABUT. & BENT FOOTINGS & SILLS		
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		
	b. PILES, BRACING, AND BULKHEADS		
38. FOUNDATION PILES TYPE MATERIAL			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)			G
40. FENDER SYSTEMS			
41. DRIFT			

ITEM 61		
45. CHANNEL & CHANNEL PROT.	a. WATERWAY	
	b. ALIGNMENT	
	c. SCOUR	
	d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
50. APPROACH ROADWAY CONDITION		G
51. APPROACH SLABS		G
52. PAINT SYSTEM CODE T		G
53. UTILITIES		G
54. RESPONSE TO LIVE LOAD		G
55. ESTIMATED REMAINING LIFE		46
60. REGULATORY SIGN NOTICE ISSUED		NO
61. PROMPT-ACTION NOTICE ISSUED		NO
62. PRESENTLY POSTED		NO
63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		6
64. TOTAL SNOOPER INSP. TIME (HRS)		0
65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		0
70. SI&A GENERAL CONDITION RATINGS		
a. DECK	ITEM 58	7
b. SUPERSTRUCTURE	ITEM 59	8
c. SUBSTRUCTURE	ITEM 60	7
d. CHANNEL & CHANNEL PROT.	ITEM 61	
71. SI&A FIELD APPRAISAL RATINGS		
a. WATERWAY ADAQUACY		
b. APPR. RDWY. ALIGNMENT		8
72. FIELD SCOUR EVALUATION		
USE OF INSP. ACCESSIBILITY EQUIPMENT		
SNOOPER (CODE S, 4, OR N)	HRS	NO
LADDER		NO
BUCKET TRUCK		NO
BOAT		NO
OTHER		NO
SPECIAL INSPECTION REQUESTED FOR		
NOTE		
80. INSPECTED BY:		
81. REVIEWED BY:		

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 GLEN KIKER

Assisted By ROBBIE JAMES

Item No.	Grade	
2a	G	HL. TRANSVERSE CRACKS IN ALL SPANS DIAGONAL CRACKS IN THE SPAN ENDS UP TO 1/16" WIDE
3a	G	HL CRACKS IN BOTH OVERHANGS IN WITH EFFLO. VERTICAL HL CRACKS IN BOTH RAILS WITH EFFLO.
10A	NO	NO CURVED GIRDERS
36a	G	HL. VERTICAL CRACKS IN BOTH ABUTMENT CAPS
36d	G	DIAGONAL CRACKS IN THE ABUTMENT BACKWALLS UP TO 1/32" WIDE

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 590819 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
3326	Maintain Concrete Deck	SF	200	CRACKS IN TOP OF THE DECK	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

CRACKS IN BOTH RAILS

CRACKS IN BOTH OVERHANGS

CRACKS IN BOTH ABUTMENT BACKWALLS

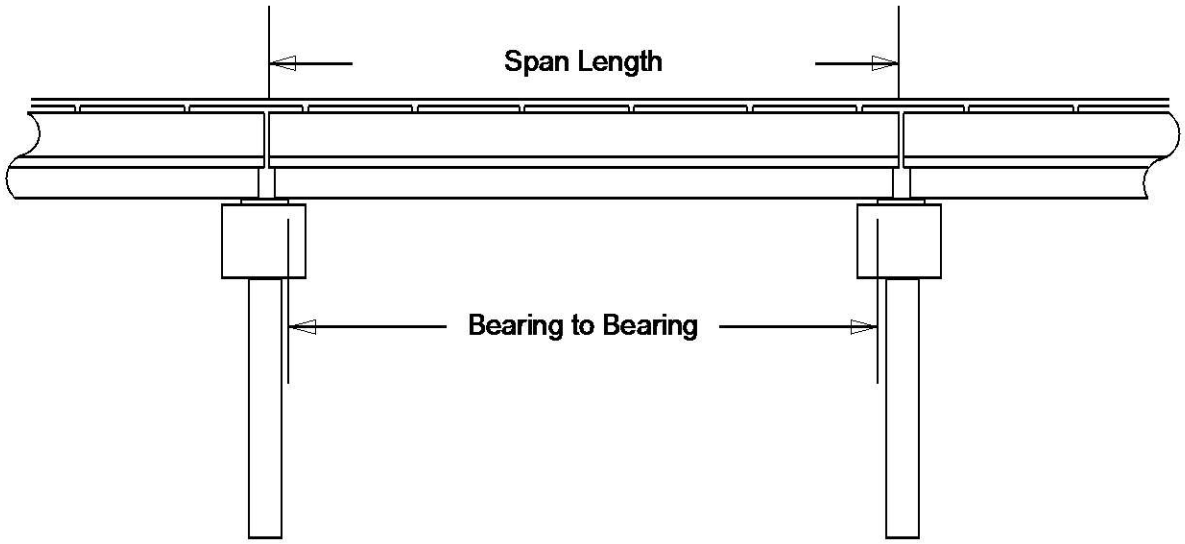
HL. CRACKS IN THE ABUT. CAP STEPUPS

HL. TRANSVERSE CRACKS IN ALL SPANS

CRACKS IN THE SPAN ENDS

Structure Data Worksheet

County: MECKLENBURG Structure No: 590819 Date: 09/09/2013 Inspected By: RGK



Span No	Span Length	Bearing to Bearing	Comments
1	104.145	102.478	NBIS BL = 330.379 FT.
2	97.458	97.458	MEASURMENTS VERIFIED 09/9/13 GLEN KIKER
3	132.776	131.109	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 590819 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

Bridge: 590819 County MECKLENBURG Date: 09/09/2013

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)

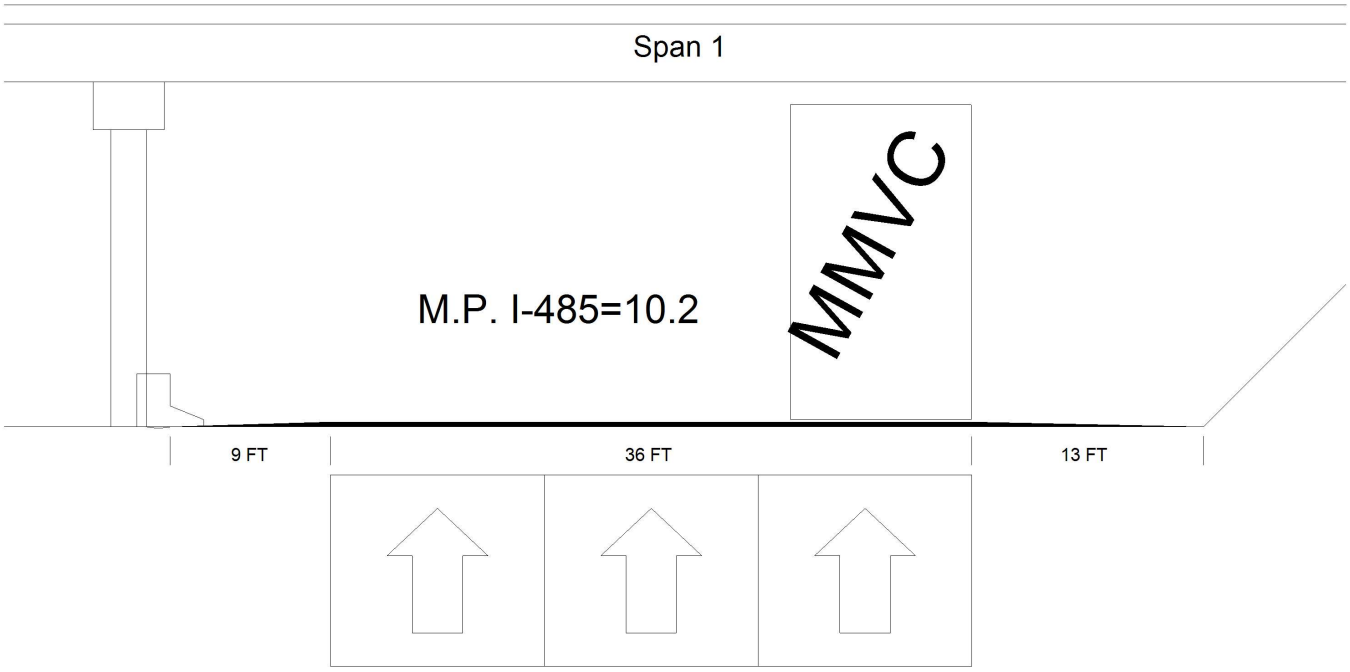
Bridge Inspection Field Sketch

Left Lanes			
Roadway	48ft Wide	4 Paved Lanes	North Bound
Right Shoulder	8ft Wide	8ft Paved	
Left Shoulder	8ft Wide	8ft Paved	
Right Guardrail			
Left Guardrail			
Median	2ft Wide	4ft High	
Right Lanes			
Roadway	48ft Wide	4 Paved Lanes	South Bound
Left Shoulder	8ft Wide	8ft Paved	
Right Shoulder	8ft Wide	8ft Paved	
Left Guardrail			
Right Guardrail			

MEASURMENTS VERIFIED 09/9/13 GLEN KIKER

Title	**Description**		
APPROACH ROADWAY	SHEET 1		
Bridge No: 590819	**Drawn By:** STEVE AUSTIN	**Date:** 09/12/2011	**File Name:** S0082001940

Bridge Inspection Field Sketch



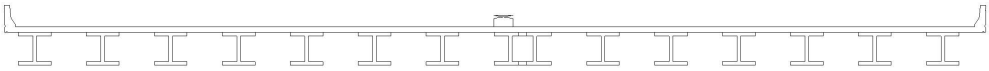
Roadway 1		Direction of Traffic	East
Distance to Left Rail	9FT	Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	10.333FT
Distance to Right Toe of Slope	13FT	Distance to Right Bent	
MMVC	17.25 Ft at Beam 15, 10 FT from LEFT EDGE OF RDWY		
MVC	17 Ft at Beam 15, 0 FT from RIGHT EDGE OF RDWY.		

MEASURMENTS VERIFIED 09/9/13 GLEN KIKER

Title	**Description**		
UNDERCLEARANCE	SHEET 3		
Bridge No: 590819	**Drawn By:** STEVE AUSTIN	**Date:** 09/12/2011	**File Name:** S0082001942

Bridge Inspection Field Sketch

Deck Width/Out to Out	156.522ft	Between Rails			153.438ft
Clear Roadway	150.438ft	Wearing Surface			
Median Width	3ft	Median Height			5ft
Curb Height		Left		Right	
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left	75.167ft	Right	75.167ft
Guardrail Width		Left	1.417ft	Right	1.417ft
Top of Rail to Deck/Wearing Surface		Left	2.833ft	Right	2.833ft
Bridge Rail		Left	Type 4	Right	Type 4



Measurements for Span #	1		
Deck Thickness	0.853	Left Overhang	5
Top of Rail to Bottom of Beam	7	Right Overhang	5

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	11.083ft	
2	Steel I Beam	11.083ft	
3	Steel I Beam	11.083ft	
4	Steel I Beam	11.083ft	
5	Steel I Beam	11.083ft	
6	Steel I Beam	11.083ft	
7	Steel I Beam	11.083ft	
8	Steel I Beam	4ft	
9	Steel I Beam	11.083ft	
10	Steel I Beam	11.083ft	
11	Steel I Beam	11.083ft	
12	Steel I Beam	11.083ft	
13	Steel I Beam	11.083ft	
14	Steel I Beam	11.083ft	
15	Steel I Beam	ft	

GIRDER DETAIL = 9/16 X 52 PLATE GIRDERS

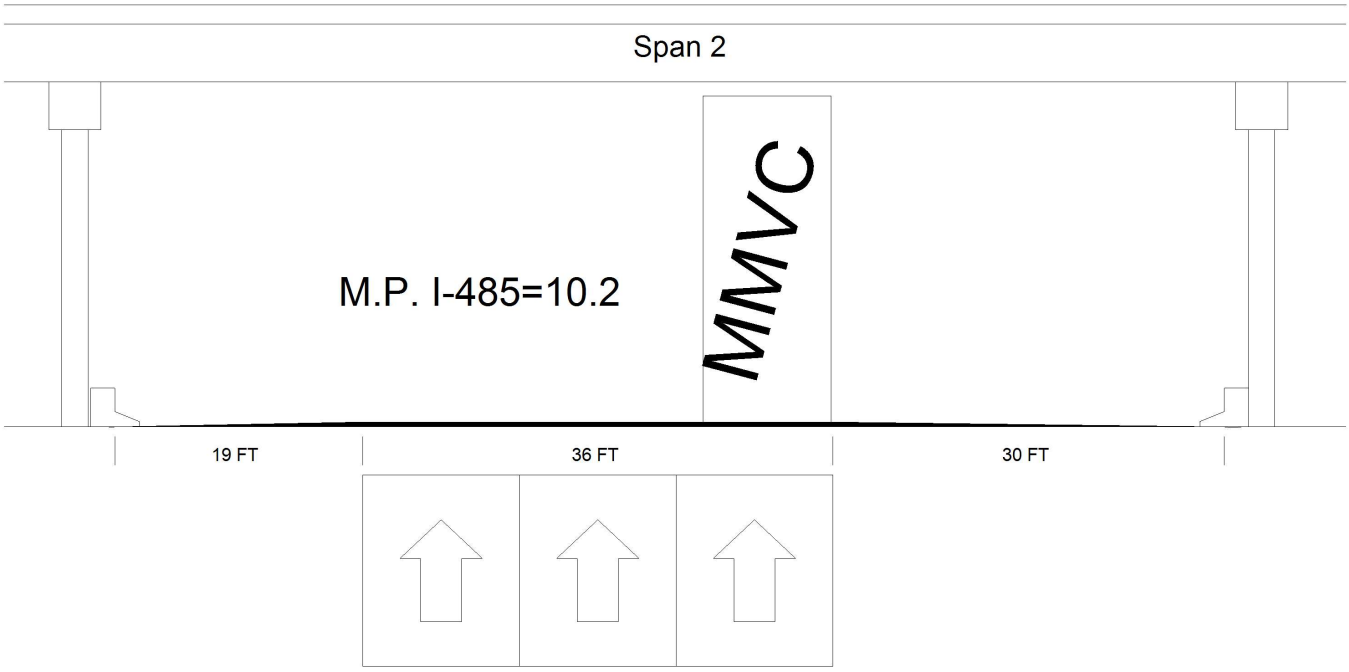
SUBSTRUCTURE DETAIL = EBTS : RC CAPS & STEEL PILES
INT.BTS : RC CAPS ON DRILLED PIERS

MEASURMENTS VERIFIED 09/9/13 GLEN KIKER

Title	**Description**
TYPICAL SECTION	SHEET 2

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
590819	STEVE AUSTIN	09/12/2011	S0082001941

Bridge Inspection Field Sketch

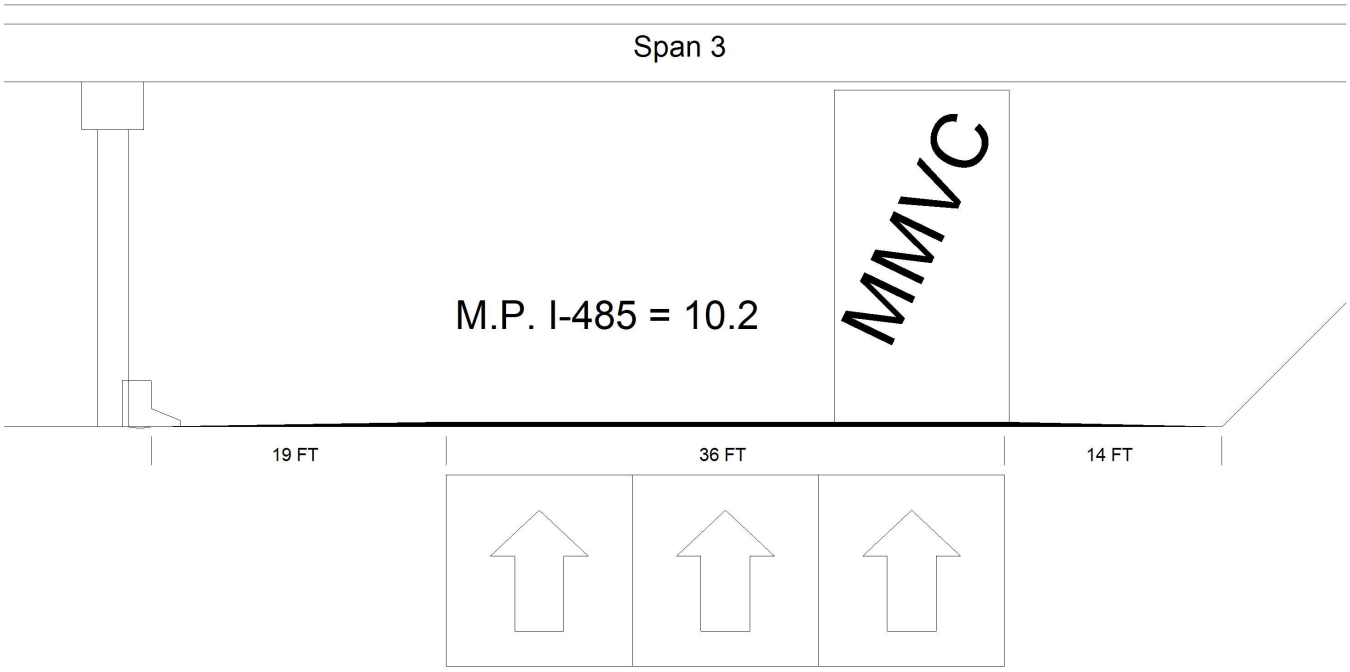


Roadway 1		Direction of Traffic	East
Distance to Left Rail	19FT	Distance to Right Rail	30FT
Distance to Left Toe of Slope		Distance to Left Bent	19.5FT
Distance to Right Toe of Slope		Distance to Right Bent	31.333FT
MMVC	19.5 Ft at Beam 15, 10 FT from LEFT EDGE OF RDWY.		
MVC	19.083 Ft at Beam 15, 0 FT from RIGHT EDGE OF RDWY.		

MEASURMENTS VERIFIED 09/9/13 GLEN KIKER

Title	**Description**		
UNDER CLEARANCE	SHEET 4		
Bridge No: 590819	**Drawn By:** STEVE AUSTIN	**Date:** 09/12/2011	**File Name:** S0082001943

Bridge Inspection Field Sketch



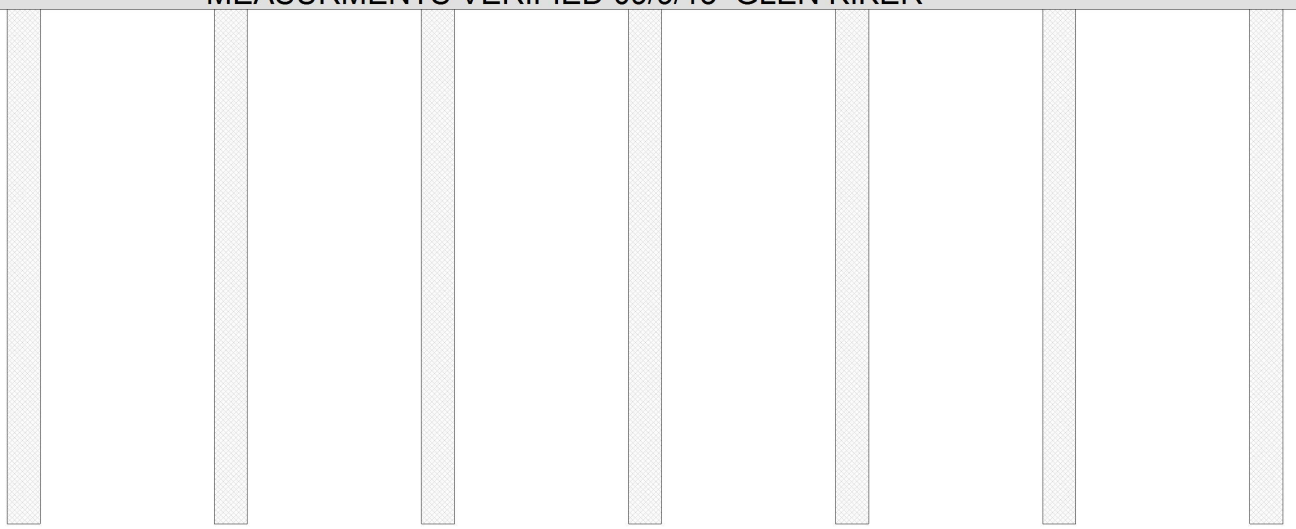
Roadway 1		Direction of Traffic	West
Distance to Left Rail	19FT	Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	20.5FT
Distance to Right Toe of Slope	14FT	Distance to Right Bent	
MMVC	21.5 Ft at Beam 15, 10 FT from RIGHT EDGE OF RDWY.		
MVC	21 Ft at Beam 15, 0 FT from LEFT EDGE OF RDWY.		

MEASURMENTS VERIFIED 09/9/13 GLEN KIKER

Title	**Description**		
UNDER CLEAR.	SHEET 5		
Bridge No: 590819	**Drawn By:** STEVE AUSTIN	**Date:** 09/12/2011	**File Name:** S0082001944

Bridge Inspection Field Sketch

MEASURMENTS VERIFIED 09/9/13 GLEN KIKER



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.
162.000 ft.	4.330 ft.	5.000 ft.	6.000 ft.	6.000 ft.	1.000 ft.	1.000 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	25 ft.	4 ft.			Vertical	No	No	No	No
2	Concrete	25 ft.	4 ft.			Vertical	No	No	No	No
3	Concrete	25 ft.	4 ft.			Vertical	No	No	No	No
4	Concrete	25 ft.	4 ft.			Vertical	No	No	No	No
5	Concrete	25 ft.	4 ft.			Vertical	No	No	No	No
6	Concrete	25 ft.	4 ft.			Vertical	No	No	No	No
7	Concrete		4 ft.			Vertical	No	No	No	No

Bent/Abutment #: 1 Similar Bents: 2

Title	**Description**
PIERS	SHEET 6

Bridge No: 590819	**Drawn By:** STEVE AUSTIN	**Date:** 9/12/2011	**File Name:** S0082002563

LOOKING WEST

WEST OPENING, SPAN 3

PIER 1 LOOKING SOUTH

SPLICE PLATES IN ALL SPANS

ABUTMENT 2 ABUTMENT 1 SIMILAR

BEARINGS

SUPERSTRUCTURE

LOOKING EAST

EAST OPEINING, SPAN 2

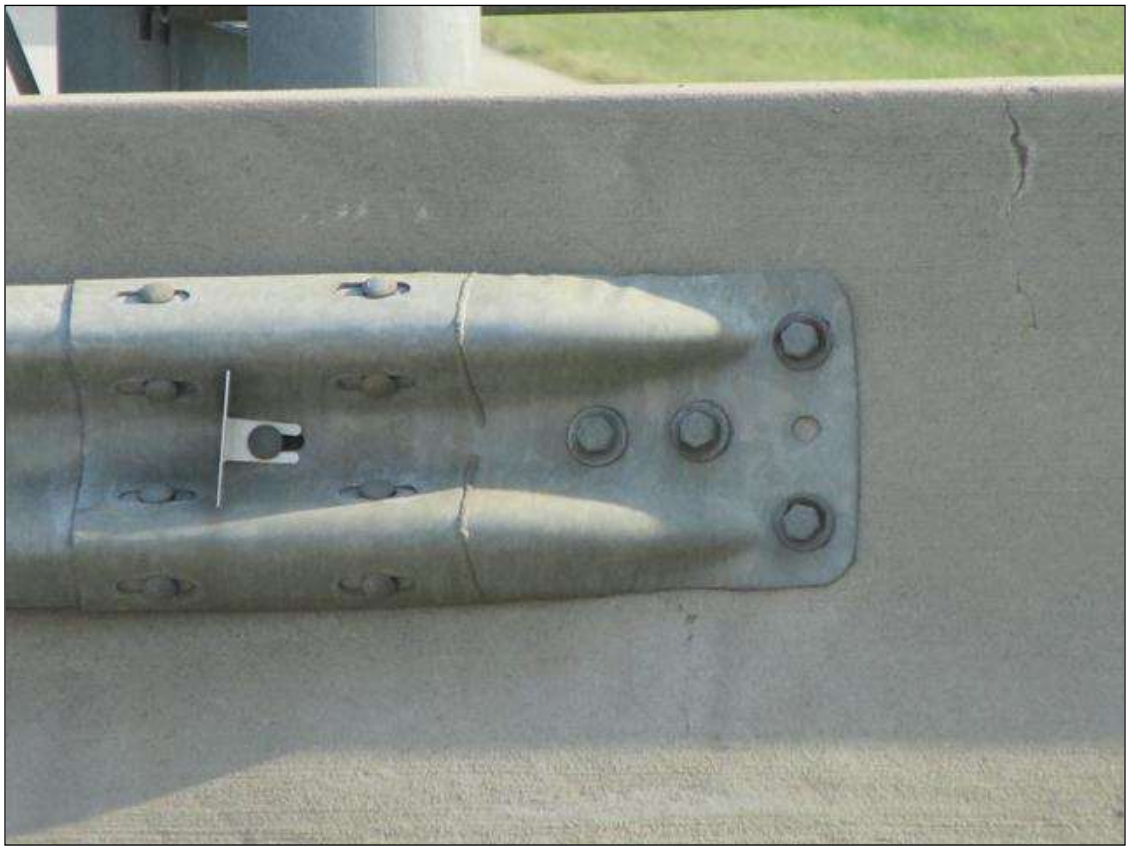
EAST OPENING, SPAN 3

LOOKING NORTH

EXPANSION JOINTS AT BOTH ABUTMENTS

LOOKING SOUTH

GUARD RAIL LOOKING SOUTH



GUARD RAIL CONNECTION SW CORNER SE SIMILAR

GUARD RAIL POST SPACING AT THE SW CORNER SE SIMILAR

GUARD RAIL POST SPACING IN THE MIDDLE

GUARD RAIIL TERMINAL END AT THE SW END SE SIMILAR