



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

ATTENTION

VERTICAL CLR. CHECKED

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY GASTON BRIDGE NUMBER 350146 INSPECTION CYCLE 2 YRS 24.400
 ROUTE SR2000 ACROSS I85 M.P. 0

LOCATION 1.2 MI. E. JCT. US74

SUPERSTRUCTURE REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE ABUTMENTS:RC SPILL THROUGH, INT.BENTS:3 COL.RC POST & BEAM

SPANS 1@75'1, 1@75'4, 1@75'2, 1@50'0

LONGITUDE 81° 4' 7.48"

LATITUDE 35° 15' 50.82"

INSPECTION DATE 10/08/2013

PRESENT CONDITION GOOD

PRESENT POSTING Not Posted NOT POSTED

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELIENATORS



WEST APPROACH

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> </u>
<u>No</u> DELINEATORS	<u> </u>
<u>No</u> NARROW BRIDGE	<u> </u>
<u>No</u> ONE LANE BRIDGE	<u> </u>
<u>No</u> LOW CLEARANCE	<u> </u>

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 03/24/2014

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **350146**
 (8) STRUCTURE NUMBER(FEDERAL) 00000000710146
 (5) INVENTORY ROUTE (ON/UNDER) - ON 31020000
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 1
 (3) COUNTY CODE 71 (4) PLACE CODE 0
 (6) FEATURE INTERSECTED - I85
 (7) FACILITY CARRIED SR2000
 (9) LOCATION 1.2 MI. E. JCT. US74
 (11)MILEPOINT 0
 (16)LAT 35° 15' 50.82" (17)LONG 81° 4' 7.48"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 72.11
 STATUS = Not Deficient

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM Is not on NHS 0
 (26) FUNCTIONAL CLASS - Minor Arterial 16
 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101)PARALLEL STRUCTURE - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE -
 (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

(43) STRUCTURE TYPE MAIN: Steel
 TYPE - Stringer Mutlibeam or Girder CODE 302
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE 000
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (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

CONDITION **CODE**

(58) DECK 6
 (59) SUPERSTRUCTURE 7
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD HS 15 3
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-28 50
 (65) INVENTORY RATING METHOD - Load Factor 1
 (66) INVENTORY RATING - HS-17 30
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1960
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Highway CODE 11
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 6
 (29) AVERAGE DAILY TRAFFIC 8800
 (30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 6%
 (19) BYPASS OR DETOUR LENGTH 2 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES,VERTI & HORIZ 4
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113)SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 74 FT
 (49) STRUCTURE LENGTH 276 FT
 (50)CURB OR SIDEWALK: LEFT 1.6 FT RIGHT 1.6 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28 FT
 (52) DECK WIDTH OUT TO OUT 31.417 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 25 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 54° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Highway 16.8 FT
 (55) MIN LAT UNDERCLEAR RT REF Highway 10.5 FT
 (56) MIN LAT UNDERCLEAR LT REF - 8.5 FT

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 17600 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 10/08/2013
 (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

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: 350146

County: GASTON

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Nuner 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	I 85N	11000850	16.4	24.40	1	10085		11	3	59500	2012	54.83	H	15.8	10.33	8.5	9	1	1	1
3	I 85 S	11000850	17.8	24.40	1	10085		11	3	59500	2012	55	H	16.8	10.5	8.5	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: 03/24/2014

COUNTY : GASTON DIVISION : 12 DISTRICT : 1 STRUCTURE NUMBER : 350146 LENGTH : 276 FEET

ROUTE CARRIED : SR2000 FEATURE INTERSECTED : I85

LOCATED : 1.2 MI. E. JCT. US74 BRIDGE NAME : CITY : *N. BELMONT

FUNC. CLASS : 16 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 8800 2012 RAIL TYPE : LT 111 RT 111

BUILT : 1960 BY : SHC PROJ : 8.16315 FED.AID PROJ : DESIGN LOAD : HS 15

REHAB : BY : PROJ : ALIGNMENT : TAN SKEW : 36 LANES : ON 2 UNDER 6

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

SUPERSTRUCTURE : REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE : ABUTMENTS:RC SPILL THROUGH; INT.BNTS:RC POST&BEAM

SPANS : 1@75'-1, 1@75'-4, 1@75'-2, 1@50'

BEAMS OR GIRDERS : 4 LNS.I-BMS.@8' CTS,SPAN 1-3:W36X170 EXT,W36X150 INT;SPAN 4:W36X150

FLOOR : 7.25 RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 31.417 FT

CLEAR ROADWAY : 28 FT BETWEEN RAILS : 31.25 FT SIDEWALK OR CURB : LT 1.6 FT RT 1.6 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-17 OPE.RTG. : HS-28 CONTR.MEMBER : InBm(SpD) POSTED : SV TTST DATE

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

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I 85N	16.40	15.80	54.8330	8.50	10.3330
3	I 85 S	17.80	16.80	55	8.50	10.50

Note: All measurements are in feet.

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 350146 COUNTY GASTON ROUTE SR2000 OVER I85
 STRUCTURE TYPE REINFORCED CONCRETE DECK ON I-BEAMS
 ROUTE ORIENTATION W - E SPANS 1@75'1, 1@75'4, 1@75'2, 1@50'0

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						b. ALIGNMENT	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	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			
3. RAILING	a. CONCRETE		G	52. PAINT SYSTEM		CODE	I
	b. TIMBER			53. UTILITIES			
	c. ALUMINUM			54. RESPONSE TO LIVE LOAD		G	
	d. STEEL			55. ESTIMATED REMAINING LIFE		22	
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G				
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			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		5	
	d. STANDARD JOINTS	3	G	64. TOTAL SNOOPER INSP. TIME (HRS)			
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
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	7
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			F	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)				USE OF INSP. ACCESSIBILITY EQUIPMENT			
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			SNOOPER (CODE S, 4, OR N)		HRS	NO
	b. PILES, POST, SILLS, & BRACING			LADDER		NO	
	c. BULKHEADS, WING'S, & TIE BACKS			BUCKET TRUCK		NO	
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		G	BOAT		NO	
	b. ABUT. & BENT COL'S BREASTWALLS		G	OTHER		NO	
	c. ABUT. & INT. BENT PILES						
	d. BACKWALLS, WING'S, RETAIN. WALLS		G				
	e. ABUT. & BENT FOOTINGS & SILLS		G				
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>J.H.R.</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 DEREK RICKUS			
Assisted By EAP			
Item No.	Grade		
2a	F	TRANS. CRACKING PRESENT IN SPAN 4	
10	G	DECK SPANS ARE HEAVILY COARSED THRUOUT WITH MAP AND TRANS. CRACKING PRESENT. TRANS. CRACKING PRESENT IN SCAT. AREAS IN ALL SPANS BEAM. AND DIAPHS. PAINTED CODED I.	
10A	NO	NO CURVED GIRDERS	
12	F	THE EXTERIOR DIAPHS. ARE CHIPPING ALONG THE BOTTOM CORNERS WITH REBAR EXPOSED.	
52	G	BMS. AND DIAPHS. PAINTED. CODED I	
50	F	THE APPROACHES ARE SETTLED 25' WIDE X 8' LONG X 1" DEEP ALONG THE FILLFACE.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 350146

County GASTON

Date: 10/08/2013

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	53	THE APPROACHES ARE SETTLED 25' WIDE X 8' LONG X 1" DEEP ALONG THE FILLFACE.	
3306	Maintain Concrete Superstructure Components	SF	4	THE EXTERIOR DIAPHS. ARE CHIPPING ALONG THE BOTTOM CORNERS WITH REBAR EXPOSED.	
3326	Maintain Concrete Deck	SF	4278	TRANS. CRACKING PRESENT IN SPAN 4 DECK SPANS ARE HEAVILY COARSED THRUOUT WITH MAP AND TRANS. CRACKING PRESENT. TRANS. CRACKING PRESENT IN SCAT. AREAS IN ALL SPANS	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



THE APPROACHES ARE SETTLED 25' WIDE X 8' LONG X 1" DEEP ALONG THE FILLFACE.



TRANS. CRACKING PRESENT IN SPAN 4

DECK SPANS ARE HEAVILY COARSED THRUOUT WITH MAP AND TRANS. CRACKING PRESENT.
TRANS. CRACKING PRESENT IN SCAT. AREA



BEAM. AND DIAPHS. PAINTED CODED I.

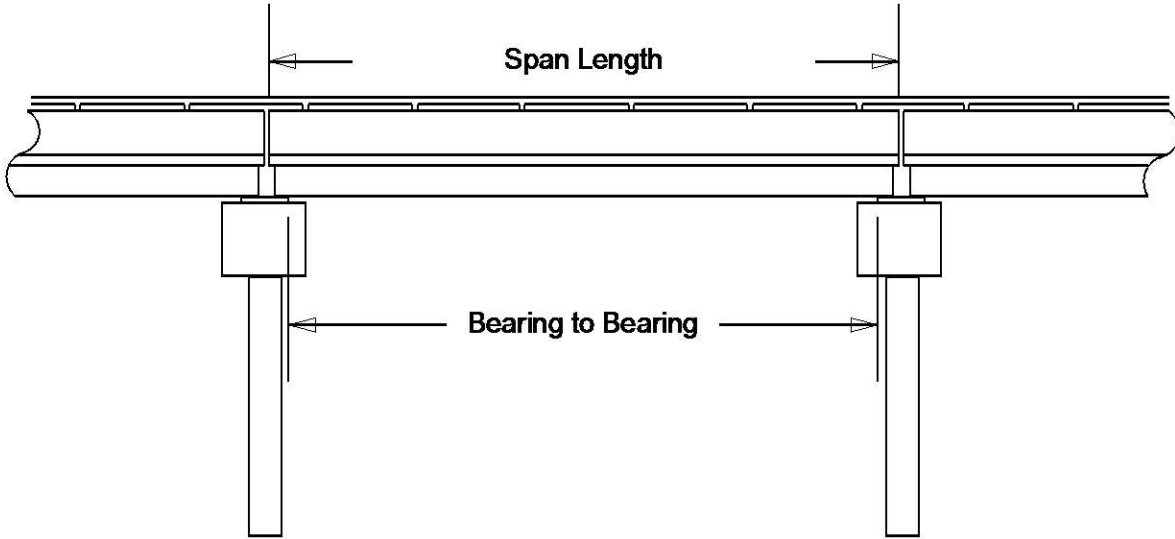


THE EXTERIOR DIAPHS. ARE CHIPPING ALONG THE BOTTOM CORNERS WITH REBAR EXPOSED.

Structure Data Worksheet

Spans

County: GASTON Structure No: 350146 Date: 10/08/2013 Inspected By: DCR



Span No	Span Length	Bearing to Bearing	Comments
1	75.083'	72.417'	NBIS=271.917
2	75.333'	73.667	
3	75.167'	73.5	
4	50.000'	47.333	

Bridge Inspection Field Sketch



Roadway	24.5ft Wide	2 Paved Lanes	Looking East
Left Shoulder	8ft Wide		8ft Unpaved
Right Shoulder	7ft Wide		7ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED BY ERIC PATTERSON 10-8-13

Title
APPROACH ROADWAY

Description
LOOKING EAST

Bridge No: 350146

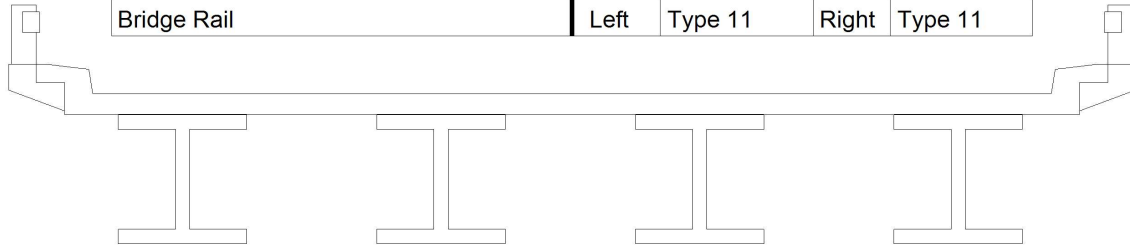
Drawn By: DJA

Date: 10/5/2007

File Name: S0146031396

Bridge Inspection Field Sketch

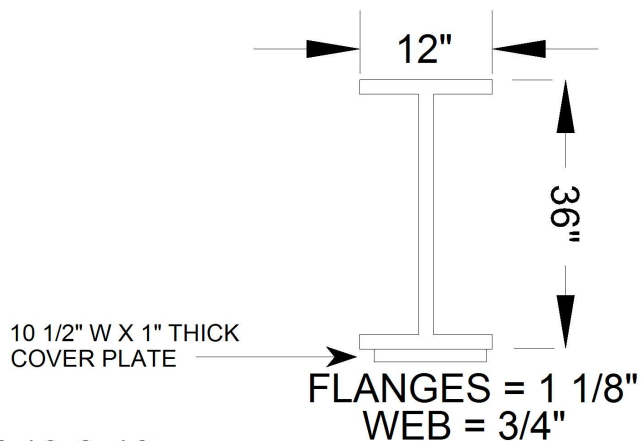
Deck Width/Out to Out	31.417ft	Between Rails	31.25ft
Clear Roadway	28ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	0.917ft
		Right	0.917ft
Sidewalk Width		Left	
		Right	
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	0.917ft
		Right	0.917ft
Top of Rail to Deck/Wearing Surface		Left	2.75ft
		Right	2.75ft
Bridge Rail		Left	Type 11
		Right	Type 11



Measurements for Span #	1		
Deck Thickness	0.604	Left Overhang	3.667
Top of Rail to Bottom of Beam	6.25	Right Overhang	3.75

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	8.000ft	
2	Steel I Beam	8.000ft	
3	Steel I Beam	8.000ft	
4	Steel I Beam	ft	

BEAMS (NON-TAPERED FLANGES)



VERIFIED BY ERIC PATTERSON 10-8-13

Title
SUPERSTRUCTURE

Description
TYPICAL SECTION

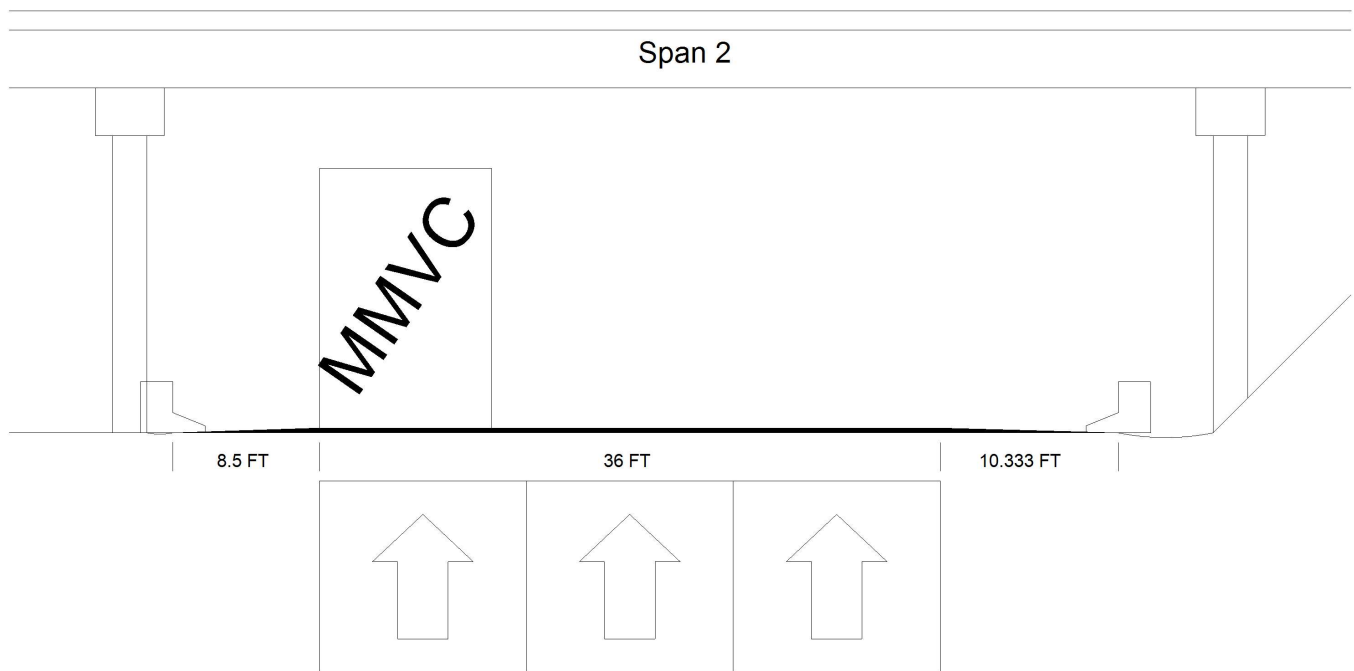
Bridge No: 350146

Drawn By: DJA

Date: 10/5/2007

File Name: S0146031397

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	8.5FT	Distance to Right Rail	10.333FT
Distance to Left Toe of Slope		Distance to Left Bent	10FT
Distance to Right Toe of Slope	15.833FT	Distance to Right Bent	11.833FT
MMVC	16.4 Ft at Beam 1, 10 FT from LEFT EDGE OF LEFT LANE		
MVC	15.8 Ft at Beam 1, 0 FT from RIGHT EDGE OF RIGHT LANE		

VERIFIED BY ERIC PATTERSON 10-8-13

Title

SPAN #2 OVER I-85 NB

Description

SPAN #2 UNDERCLEARANCE

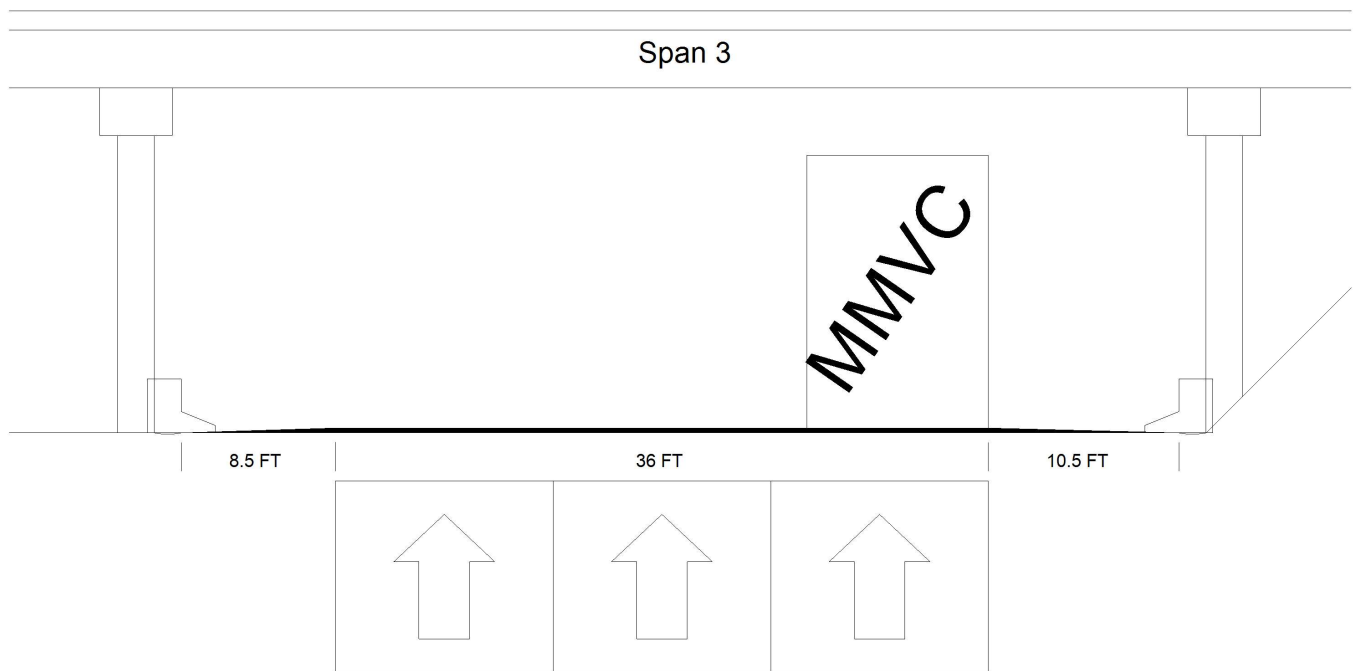
Bridge No: 350146

Drawn By: DJA

Date: 10/5/2007

File Name: S0146031398

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	South
Distance to Left Rail	8.5FT	Distance to Right Rail	10.5FT
Distance to Left Toe of Slope		Distance to Left Bent	10FT
Distance to Right Toe of Slope	12FT	Distance to Right Bent	12FT
MMVC	17.8 Ft at Beam 1, 10 FT from RIGHT EDGE OF RIGHT LANE		
MVC	16.8 Ft at Beam 1, 0 FT from LEFT EDGE OF LEFT LANE		

VERIFIED BY ERIC PATTERSON 10-8-13

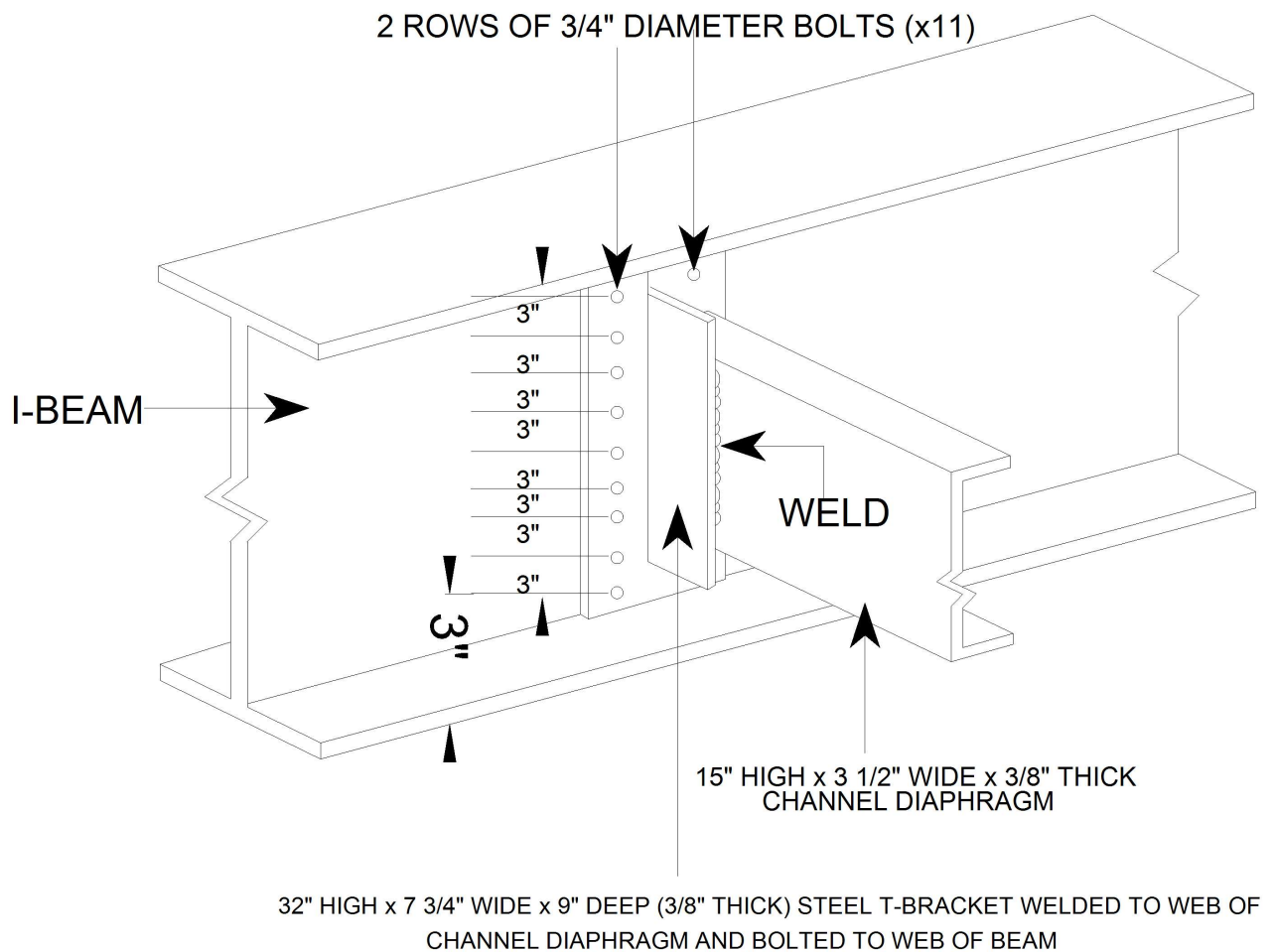
Title SPAN #3 OVER I-85 SB	Description SPAN #3 UNDERCLEARANCE
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Bridge No: 350146	Drawn By: DJA	Date: 10/5/2007	File Name: S0146031399
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Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

LOCATIONS : 1/4 POINTS OF SPANS # 1-3
1/3 POINT SPAN #4



VERIFIED BY ERIC PATTERSON 10-8-13

Title
INTERMEDIATE DIAPHRAGMS

Description
DIAPHRAGM DETAILS

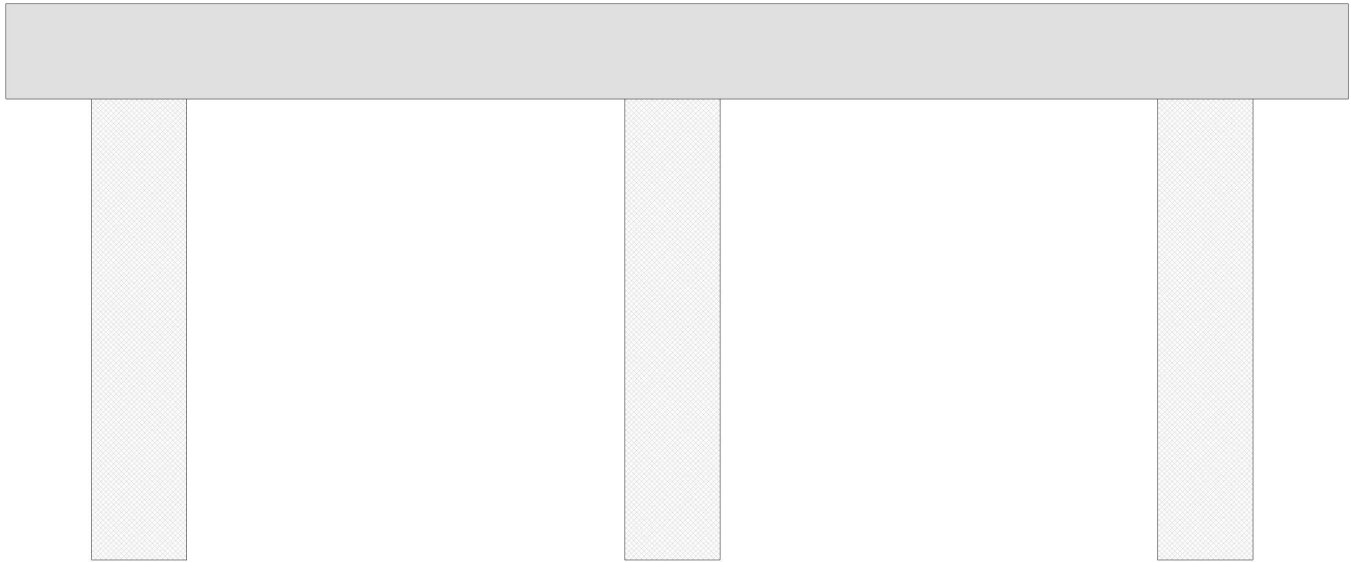
Bridge No: 350146

Drawn By: DELVIN ADAMS

Date: 10/27/2011

File Name: S0146031591

Bridge Inspection Field Sketch



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.				
35.250 ft.	2.500 ft.	2.500 ft.	3.500 ft.	3.750 ft.	2.500 ft.	3.750 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	14 ft.	2.5 ft.	2.5 ft.		Vertical	No	No	No	No
2	Concrete	14 ft.	2.5 ft.	2.5 ft.		Vertical	No	No	No	No
3	Concrete		2.5 ft.	2.5 ft.		Vertical	No	No	No	No
Bent/Abutment #: 1			Similar Bents: 2,3							

Title TYPICAL BENT				Description DETAILS FOR BENTS 1,2,3			
Bridge No: 350146	Drawn By: ERIC A. PATTERSON			Date: 10/8/2013	File Name: S0146031922		



EAST APPROACH



BRIDGE INFOR. MARKER AT THE NORTHEAST CORNER



BRIDGE INFOR. MARKER AT THE SOUTHWEST CORNER



WEST APPROACH



ABUT. 1



BENT 2



BENT 1



LOOKING NORTH



BENT 3



LOOKING SOUTH



ABUT. 2