



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **SUPPLEMENTAL INSPECTION / IMPACT DAMAGE / SPAN 2 ONLY/ PAR REQUESTED**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 11/03/2020

DIVISION: 13 COUNTY: BUNCOMBE STRUCTURE NUMBER: 100387 FREQUENCY: None

FACILITY CARRIED: SR1727 MILE POST: _____

LOCATION: .15 MI.W.JCT.US19 BUS.

FEATURE INTERSECTED: US19,23

LATITUDE: 35° 42' 41.64" LONGITUDE: 82° 33' 49.96"

SUPERSTRUCTURE: _____

SUBSTRUCTURE: _____

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

NBI GRADES: DECK 7 SUPERSTRUCTURE 5 SUBSTRUCTURE 6 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: DELINEATORS (4) NARROW BRIDGE (2) 14'-6"



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION W-E

DIRECTION MATCHES PLANS _____

LOOKING EAST

INSPECTED BY ME.RENFRO	SIGNATURE <i>Me Renfro</i>	ASSISTED BY BA.WILCOX
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 100387
 (8) STRUCTURE NUMBER (FEDERAL) 0210387
 (5) INVENTORY ROUTE (ON/UNDER) ON 131017270
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 21 (4) PLACE CODE 71560
 (6) FEATURE INTERSECTED US19,23
 (7) FACILITY CARRIED SR1727
 (9) LOCATION .15 MI.W.JCT.US19 BUS.
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 42' 41.64" (17) LONGITUDE 82° 33' 49.96"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 66.00
 STATUS = Functionally Obsolete

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Local 19
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE No parallel structure exists N
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 3
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 7
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 6
 (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-37 67
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-22 40
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY 5
 (72) APPROACH ROADWAY ALIGNMENT 4
 (36) TRAFFIC SAFETY FEATURES 0010
 (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 12,800 YEAR OF FUTURE ADT 2040

INSPECTION

(90) INSPECTION DATE 11/20 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR

AGE AND SERVICE

(27) YEAR BUILT 1963
 (106) YEAR RECONSTRUCTED 2013
 (42) TYPE OF SERVICE ON - Overpass Structure
 OFF - Highway CODE 61
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 7900
 (30) YEAR OF ADT 2016 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 0.0

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 73.0
 (49) STRUCTURE LENGTH 276.0
 (50) CURB OR SIDEWALK: LEFT 1.6 RIGHT 1.6
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 28.0
 (52) DECK WIDTH OUT TO OUT 33.3
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 23.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 41 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.5
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 9.3
 (56) MIN LAT UNDERCLEARANCE LT: 18.1

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE N
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	US 19 E,US 23 E	21000190	14.5	0.0	1	20019	12	2	18500	2017	41.5	H	14.5	7.5	19.3	3		1	<input type="checkbox"/>	<input type="checkbox"/>
2	US 19 E,US 23 E	21000190	14.5		1	20019	12	2	18500	2017	41.5	H	14.5	7.5	19.3	3	0	1	<input type="checkbox"/>	<input type="checkbox"/>
3	US 19 W,US 23 W	21000190	14.6		1	20019	12	2	18500	2017	43.3	H	14.5	9.3	18.1	3	0	1	<input type="checkbox"/>	<input type="checkbox"/>
3	US 19 W,US 23 W	21000190	14.6		1	20019	12	2	18500	2017	43.3	H	14.5	9.3	18.1		0	1	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.



SCATTERED CRACKING IN CAP AT INT BENT 1 BENEATH BEAM 1 SPAN 2



DIAPHRAGM 1 BAY 1 SPAN 2 WELD BROKEN LOOSE ON THE BACK SIDE 3" LONG .(PAR)



BEAM 1 SPAN 2 BEAM SWEEP EASTWARD 1 1/2" (PAR)



BEAM 1 SPAN 2 POINT OF IMPACT 2' LONG X WITH 1/16" INDENTIONS AT 14'-6" OUT FROM INT. BENT 1(PAR)



DIAPHRAGM 1 BAY 1 SPAN 2 CRACK IN BASE OF DIAPHRAGM 3" LONG X 1/16" WIDE



DIAPHRAGM 1 BAY 1 SPAN 2 BOWED



BEAM 2 SPAN 2 POINT OF IMPACT 20" LONG X BOWED UPWARD 1 1/2" LEFT FLANGE AT 4'-3" OUT FROM INT. BENT 1



BEAM 2 SPAN 1 , 12" LONG X 1/16" DEEP SCRAPES ALONG THE BOTTOM FLANGE OF BEAM



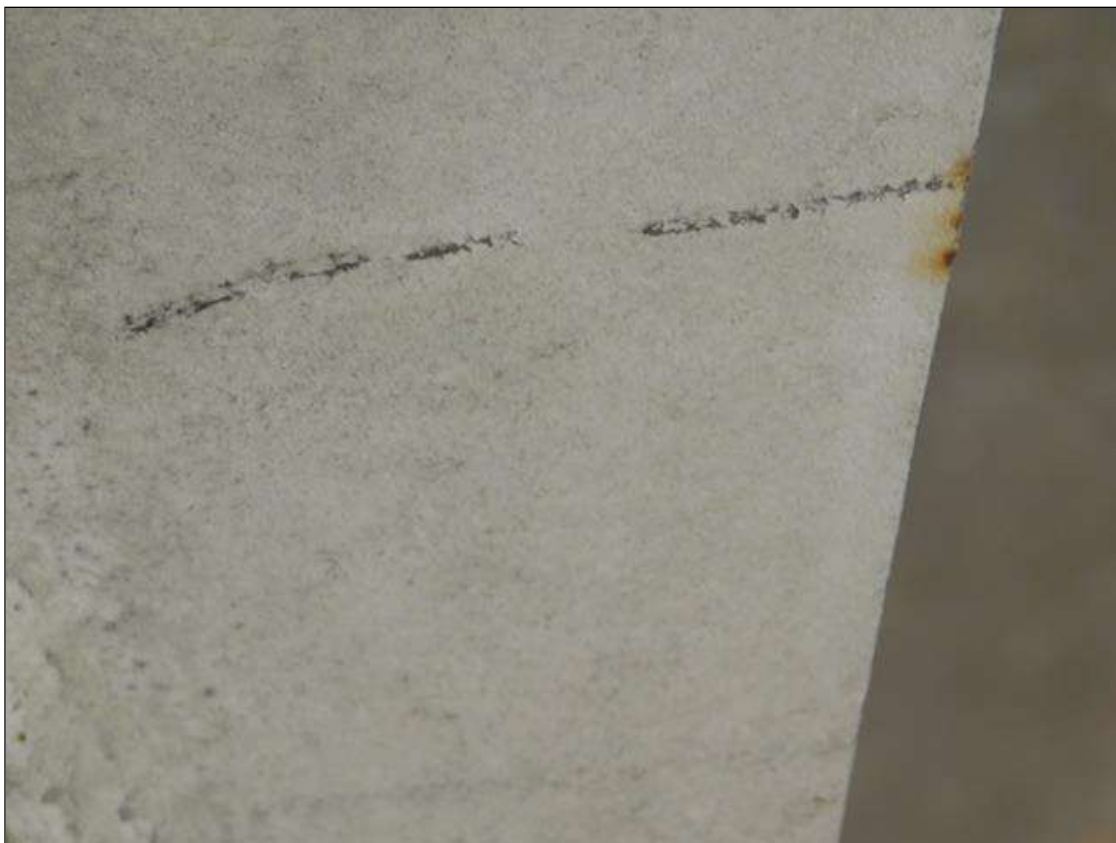
BEAM 2 SPAN 1 SWEPT EASTWARD 1 1/2" (PAR)



BEAM 2 SPAN 1 SCATTERED SCRAPES BOTTOM FLANGE OF BEAM 2



BEAM 3 SPAN 1 SCATTERED SCRAPES ALONG THE WEB OF BEAM 3



BEAM 3 SPAN 1 SCATTERED SCRAPES ALONG THE BOTTOM FLANGE



INT. BENT 1 CAP SPALLING BENEATH BEAM 3 AT THE BOTTOM OF CAP 3'-3" LONG X 11" HIGH X 8" DEEP WITH 1 REINFORCING BAR EXPOSED (PAR)



INT. BENT 1 CAP SPALLING BENEATH BEAM 3 AT THE BOTTOM OF CAP 3'-3" LONG X 11" HIGH X 8" DEEP WITH 1 REINFORCING BAR EXPOSED (PAR)



INT. BENT 1 CAP SPALLING BENEATH BEAM 3 AT THE BOTTOM OF CAP 3'-3" LONG X 11" HIGH X 8" DEEP WITH 1 REINFORCING BAR EXPOSED (PAR)



INT. BENT 1 CAP SPALL 26" LONG X 9" HIGH X 5" DEEP AT 8'-6" FROM EAST END BAY 3 WITH 1 REINFORCING BAR EXPOSED (PAR)



INT. BENT 1 CAP SPALL 26" LONG X 9" HIGH X 5" DEEP AT 8'-6" FROM EAST END BAY 3 WITH 1 REINFORCING BAR EXPOSED (PAR)



COLUMN 3 INT. BENT 1 SPALL 2'-10" HIGH X 2'-88" LONG X 7" DEEP AT THE TOP OF NEW SECTION (PAR)



COLUMN 3 INT. BENT 1 SPALL 2'-10" HIGH X 2'88" LONG X 7" DEEP AT THE TOP OF NEW SECTION (PAR)



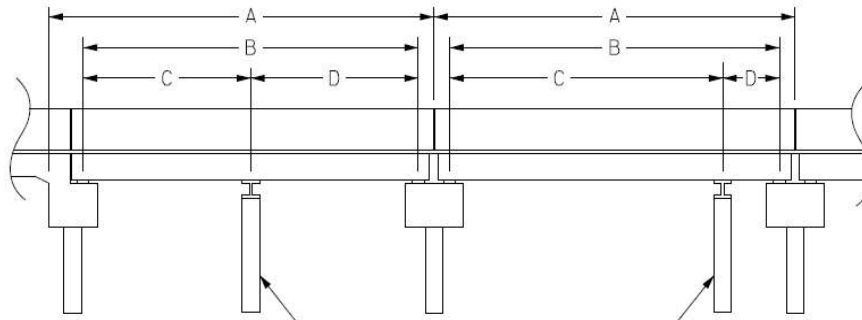
BEAM 4 SPAN 1 SCRAPE 11" LONG X 1/16" DEEP AT 9'-3" OUT FROM INT. BENT 1

Structure Data Worksheet

Span Profile

County: BUNCOMBE

Structure Number: 100387



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	62.500	61.500			
2	73.500	72.500			
3	73.500	72.500			
4	66.500	65.500			

Structure Number: 100387

Span: 2

Route Name: US 19 E,US 23 E



EAST CLEARANCE

Route Number: 21000190		Route Name: US 19 E,US 23 E			Reference Feature: H	
Minimum Vertical Clearance 14.500 feet		Maximum Minimum Vertical Clearance 14.500 feet				
Total Horizontal Clearance 41.500 feet		Lateral Clearances: Left: 19.300 feet Right 7.500 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 20019				
Milepost: 0.000	Number of Lanes: 2	ADT: 18500	Year of ADT: 2017	Percentage of Trucks: 12		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 12	Local Principal Arterial - Other	Direction of Traffic: 1 1 - way traffic				



LOOKING EAST



OVERVIEW OF DAMAGE SPAN 2 INT. BENT1



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **SUPPLEMENTAL INSPECTION IMPACT DAMAGE
 SPAN 2 ONLY, PLEASE REFER TO (PAR)S ISSUED
 08/25/2021**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 10/26/2021

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110129 FREQUENCY: None

FACILITY CARRIED: SR1102 MILE POST: 100.85

LOCATION: .1 MI.S.JCT.SR1159

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 5.82" LONGITUDE: 81° 43' 57.53"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT.BTS:RCP&B/PILE FOOTINGS

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 5/5 SUPERSTRUCTURE 6/6 SUBSTRUCTURE 5/5 CULVERT N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

LOOKING EAST

INSPECTED BY MICHAEL CARTER	SIGNATURE 	ASSISTED BY MICHAEL RENFRO
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IDENTIFICATION

(1) STATE NAME	NORTH CAROLINA	BRIDGE	110129
(8) STRUCTURE NUMBER (FEDERAL)			0230129
(5) INVENTORY ROUTE (ON/UNDER)	ON		131011020
(2) STATE HIGHWAY DEPARTMENT DISTRICT			13
(3) COUNTY CODE (FEDERAL)	23	(4) PLACE CODE	44400
(6) FEATURE INTERSECTED	I-40		
(7) FACILITY CARRIED	SR1102		
(9) LOCATION	.1 M.I.S.JCT.SR1159		
(11) MILEPOINT			100.9
(12) BASE HIGHWAY NETWORK			0
(13) LRS INVENTORY ROUTE & SUBROUTE			
(16) LATITUDE	35° 43' 5.82"	(17) LONGITUDE	81° 43' 57.53"
(98) BORDER BRIDGE STATE CODE		PERCENT SHARED	
(99) BORDER BRIDGE STRUCTURE NUMBER			

SUFFICIENCY RATING	74.02
STATUS =	Functionally Obsolete

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM		YES
(104) HIGHWAY SYSTEM	Inventory Route not on NHS	0
(26) FUNCTIONAL CLASS	Urban Minor Collector	16
(100) STRAHNET HIGHWAY	Not a STRAHNET Route	0
(101) PARALLEL STRUCTURE	No parallel structure exists	N
(102) DIRECTION OF TRAFFIC	2-way traffic	2
(103) TEMPORARY STRUCTURE		
(110) DESIGNATED NATIONAL NETWORK - on national network for trucks		0
(20) TOLL	On Free Road	3
(21) MAINT -		01
(22) OWNER -		01
(37) HISTORICAL SIGNIFICANCE -		5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN		Steel
TYPE	Stringer/Multi-beam or girder	CODE 302
(44) STRUCTURE TYPE APPROACH		
TYPE		CODE
(45) NUMBER OF SPANS IN MAIN UNIT		4
(46) NUMBER OF SPANS IN APPROACH		0
(107) DECK STRUCTURE TYPE		CODE 1
(108) WEARING SURFACE/PROTECTIVE SYSTEM		
(A) TYPE OF WEARING SURFACE		CODE 6
(B) TYPE OF MEMBRANE		CODE 0
(C) TYPE OF DECK PROTECTION		CODE 0

CONDITION CODE

(58) DECK		5
(59) SUPERSTRUCTURE		6
(60) SUBSTRUCTURE		5
(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-42	75
(65) INVENTORY RATING METHOD -		1
(66) INVENTORY RATING	HS-25	45
(70) BRIDGE POSTING	No Posting Required	5
(41) STRUCTURE OPEN, POSTED, OR CLOSED		A
DESCRIPTION	Open, no restriction	

APPRAISAL CODE

(67) STRUCTURAL EVALUATION		5
(68) DECK GEOMETRY		5
(69) UNDERCLEARANCES, VERT & HORIZ		3
(71) WATERWAY ADEQUACY		N
(72) APPROACH ROADWAY ALIGNMENT		8
(36) TRAFFIC SAFETY FEATURES		0111
(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	4,000	YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL -		CODE N
(111) PIER PROTECTION		CODE
(39) NAVIGATION VERTICAL CLEARANCE		0.0
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		0.0
(40) NAVIGATION HORIZONTAL CLEARANCE		0.0

INSPECTION

(90) INSPECTION DATE	08/21	(91) FREQUENCY	24
(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE	
A) FRACTURE CRIT DETAIL		A)	
B) UNDERWATER INSP		B)	
C) OTHER SPECIAL INSP		C)	

SCOUR

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EBL	11000400	14.8	100.9	1	10040	11	2	17000	2015	43.0	H	14.8	11.0	12.8	3		1	<input type="checkbox"/>	<input type="checkbox"/>
2	I 40 E	11000400	14.8	100.9	1	10040	11	2	17000	2015	43.0	H	14.8	11.0	12.8	3	1	1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	15.8	100.9	1	10040	11	2	17000	2015	48.3	H	15.4	10.0	13.6	4	1	1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	15.8	100.9	1	10040	11	2	17000	2015	48.3	H	15.4	10.0	13.6	4		1	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : Initial point of impact on beam 1 19'-7" from face of bent 1. Beam 1 is out of plumb 2" in the direction of traffic FOR THE LENGTH OF 20' and indentation in cover plate 3' X 2" in the impact area. An indentation in flange 8" X 1/4" at 21'-3", A 8" X 1/4" at 22'-11", a 5" X 1/16" at 17'-4", a 29" X 1/2" at 27'-0" all from face of bent 1. Indentions in flange cover plate 6" X 1/16" at 23'-4", a 6" X 1/16" at 22'-9", a 8" X 1/32" at 21'-6", a 8" X 1/16" at 21'-1", a 8" X 1/16" at 18'-9", a 6" X 1/32" at 16'-4", a 1" X 1/32" at 25'-5" all from face of bent 1. Gouges in flange cover plate 1" X 4" X 1/16" at 21'-1" and 3/4" X 3" X 1/16" at 27'-2" from face of bent 1.



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Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : Initial point of impact on beam 1 19'-7" from face of bent 1. Beam 1 is out of plumb 2" in the direction of traffic FOR THE LENGTH OF 20' and indentation in cover plate 3' X 2" in the impact area. An indentation in flange 8" X 1/4" at 21'-3", A 8" X 1/4" at 22'-11", a 5" X 1/16" at 17'-4", a 29" X 1/2" at 27'-0" all from face of bent 1. Indentions in flange cover plate 6" X 1/16" at 23'-4", a 6" X 1/16" at 22'-9", a 8" X 1/32" at 21'-6", a 8" X 1/16" at 21'-1", a 8" X 1/16" at 18'-9", a 6" X 1/32" at 16'-4", a 1" X 1/32" at 25'-5" all from face of bent 1. Gouges in flange cover plate 1" X 4" X 1/16" at 21'-1" and 3/4" X 3" X 1/16" at 27'-2" from face of bent 1.



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : Initial point of impact on beam 1 19'-7" from face of bent 1. Beam 1 is out of plumb 2" in the direction of traffic FOR THE LENGTH OF 20' and indentation in cover plate 3' X 2" in the impact area. An indentation in flange 8" X 1/4" at 21'-3", A 8" X 1/4" at 22'-11", a 5" X 1/16" at 17'-4", a 29" X 1/2" at 27'-0" all from face of bent 1. Indentions in flange cover plate 6" X 1/16" at 23'-4", a 6" X 1/16" at 22'-9", a 8" X 1/32" at 21'-6", a 8" X 1/16" at 21'-1", a 8" X 1/16" at 18'-9", a 6" X 1/32" at 16'-4", a 1" X 1/32" at 25'-5" all from face of bent 1. Gouges in flange cover plate 1" X 4" X 1/16" at 21'-1" and 3/4" X 3" X 1/16" at 27'-2" from face of bent 1.



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : Initial point of impact on beam 1 19'-7" from face of bent 1. Beam 1 is out of plumb 2" in the direction of traffic FOR THE LENGTH OF 20' and indentation in cover plate 3' X 2" in the impact area. An indentation in flange 8" X 1/4" at 21'-3", A 8" X 1/4" at 22'-11", a 5" X 1/16" at 17'-4", a 29" X 1/2" at 27'-0" all from face of bent 1. Indentions in flange cover plate 6" X 1/16" at 23'-4", a 6" X 1/16" at 22'-9", a 8" X 1/32" at 21'-6", a 8" X 1/16" at 21'-1", a 8" X 1/16" at 18'-9", a 6" X 1/32" at 16'-4", a 1" X 1/32" at 25'-5" all from face of bent 1. Gouges in flange cover plate 1" X 4" X 1/16" at 21'-1" and 3/4" X 3" X 1/16" at 27'-2" from face of bent 1.



Span 2 Beam 2: SUPPLEMENTAL INSPECTION 2021: Point of impact on beam 2 West approach slab 27'-6" from face of bent 1. Gouges in flange cover plate 1/2" X 14" X 1/16" and a indentation in flange cover plate 6" X 1/32", a indentation in flange 1 1/2" X 1/16" all in the impact area.



Span 2 Beam 3: SUPPLEMENTAL INSPECTION 2021: Point of impact on beam 3 West approach slab 26'-1" from face of bent 1. Beam 1 is out of plumb 2 1/2" +/- in the direction of traffic and a indentation in cover plate 3" X 1/2" and a 2" X 1/2" in the impact area.



Span 2 Beam 3: SUPPLEMENTAL INSPECTION 2021: Point of impact on beam 3 West approach slab 26'-1" from face of bent 1. Beam 1 is out of plumb 2 1/2" +/- in the direction of traffic and a indentation in cover plate 3" X 1/2" and a 2" X 1/2" in the impact area.



Span 2 Beam 4: SUPPLEMENTAL INSPECTION 2021: SCATTERED SCRAPS THROUGHOUT ON BOTTOM COVER PLATE

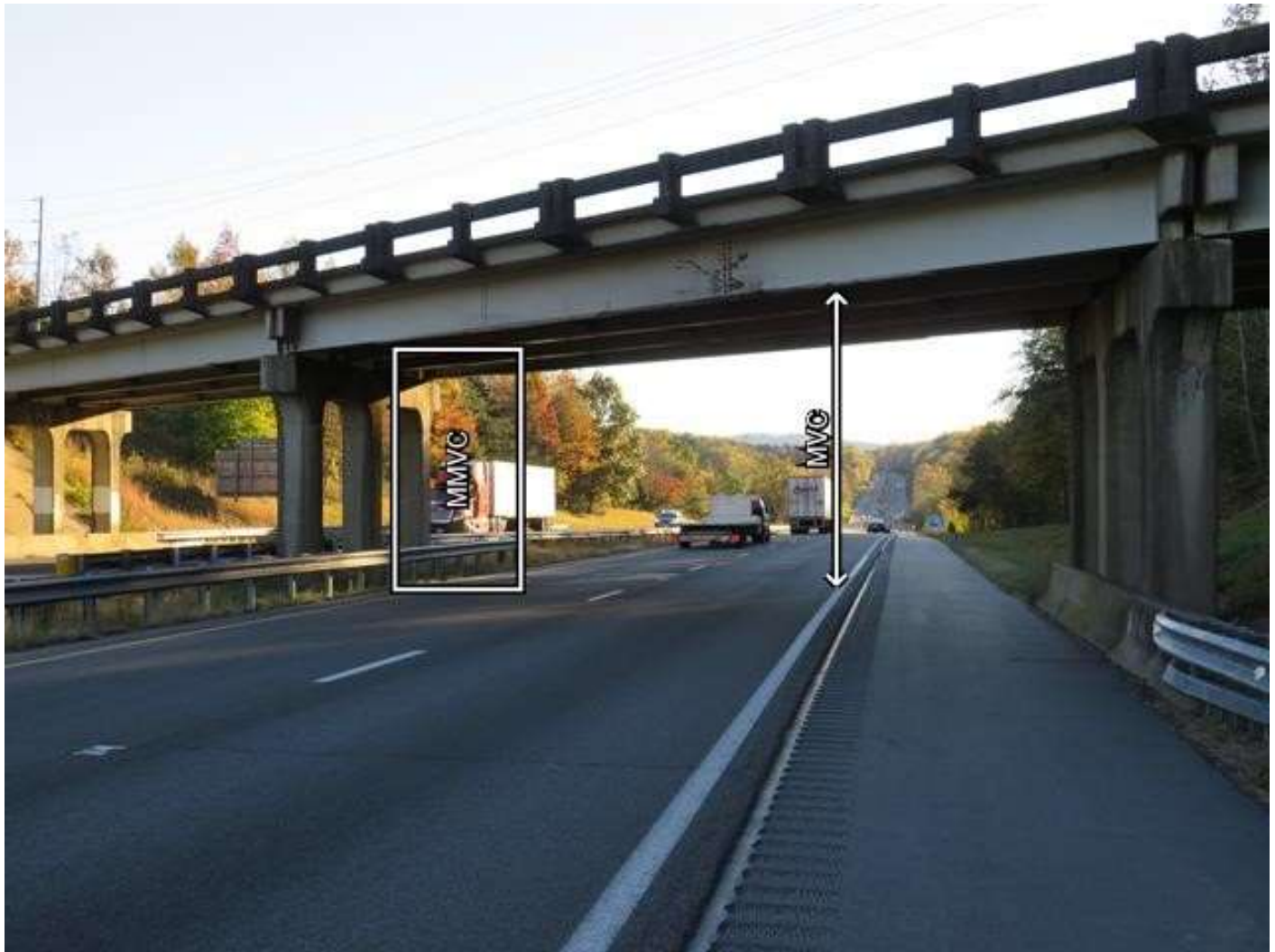


EAST CLEARANCE

Structure Number: 110129

Span: 2

Route Name: I 40 EBL



EAST CLEARANCE

Route Number: 11000400		Route Name: I 40 EBL			Reference Feature: H
Minimum Vertical Clearance 14.790 feet		Maximum Minimum Vertical Clearance 14.810 feet			
Total Horizontal Clearance 42.970 feet		Lateral Clearances: Left: 12.780 feet Right 11.000 feet			
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040			
Milepost: 100.850	Number of Lanes: 2	ADT: 17000	Year of ADT: 2015	Percentage of Trucks: 16	
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator		
Functional Classification 11	Local Principal Arterial - Interstate	Direction of Traffic: 1 1 - way traffic			

Structure Number: 110129

Span: 3

Route Name: I 40 W



span 3 vertical clearance looking West

Route Number: 11000400		Route Name: I 40 W			Reference Feature: H	
Minimum Vertical Clearance 15.390 feet		Maximum Minimum Vertical Clearance 15.790 feet				
Total Horizontal Clearance 48.320 feet		Lateral Clearances: Left: 13.610 feet Right 10.000 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 100.850	Number of Lanes: 2	ADT: 17000	Year of ADT: 2015	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **IMPACT DAMAGE SPAN 2 ONLY / PAR X1 / CHANGE IN CLEARANCE FOR SPAN 2**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 11/07/2019

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110144 FREQUENCY: None

FACILITY CARRIED: SR1704 MILE POST: _____

LOCATION: .2 MI.N.JCT.SR1712

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 31.13" LONGITUDE: 81° 38' 10.85"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/TIMBER PILES;INT.BTS:RC POST&BEAM

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

NBI GRADES: DECK 6 SUPERSTRUCTURE 5 SUBSTRUCTURE 5 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

LOOKING EAST

INSPECTED BY ME.RENFRO	SIGNATURE 	ASSISTED BY BA.WILCOX
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110144
 (8) STRUCTURE NUMBER (FEDERAL) 0230144
 (5) INVENTORY ROUTE (ON/UNDER) ON 131017040
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 44400
 (6) FEATURE INTERSECTED I-40
 (7) FACILITY CARRIED SR1704
 (9) LOCATION .2 MI.N.JCT.SR1712
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 43' 31.13" (17) LONGITUDE 81° 38' 10.85"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 59.
 STATUS = 71000000000
 Functionally Obsolete 00

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Collector 17
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE No parallel structure exists N
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 6
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 6
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 5
 (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-25 48
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-15 28

AGE AND SERVICE

(27) YEAR BUILT 1955
 (106) YEAR RECONSTRUCTED 0.
 00000000000000
 0
 (42) TYPE OF SERVICE ON - Overpass Structure
 OFF - Highway CODE 61
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 3050
 (30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 0.0

(70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED A
 DESCRIPTION Open, no restriction

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 3
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY 5
 (72) APPROACH ROADWAY ALIGNMENT 3
 (36) TRAFFIC SAFETY FEATURES 0111
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 51.0
 (49) STRUCTURE LENGTH 182.0
 (50) CURB OR SIDEWALK: LEFT 3.3 RIGHT 3.3
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 26.0
 (52) DECK WIDTH OUT TO OUT 34.3
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 31.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 7 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 26.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.8
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 10.9
 (56) MIN LAT UNDERCLEARANCE LT: 13.1

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 6,100 YEAR OF FUTURE ADT 2025

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE N
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

(90) INSPECTION DATE 08/19 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 E	11000400	15.3	106.4	1	10040	11	2	22500	2015	42.4	H	15.0	10.9	13.1	3	1	1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	17.0	106.4	1	10040	11	2	22500	2015	42.7	H	16.3	10.6	13.8	4	1	1	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.



Span 2 Beam 1: INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 147" FROM INT. BENT 1, 2" LONG X 1" WIDE X 1/8" DEEP (PAR)



Span 2 Beam 1: POINT OF IMPACT TO BEAM 1 AT 24'8" FROM INT. BENT 1 FOR A LENGTH OF 15'.



Span 2 Beam 2: SCATTERED SCRAPES TO BOTTOM FLANGE THROUGHOUT BEAM 2



Span 2 Beam 3: SCATTERED SCRAPES TO LEFT SIDE OF WEB THROUGHOUT BEAM 3 SPAN 2



Span 2 Beam 3: SCRAPES TO BOTTOM FLANGE AT 20'9" FROM INT. BENT 1



Span 2 Beam 4: SCATTERED SCRAPES TO BOTTOM FLANGE



Span 2 Beam 4: SCATTERED SCRAPES TO LEFT SIDE OF WEB.



Span 2 Beam 5: SCATTERED SCRAPES TO BOTTOM FLANGE



SCATTERED POPOUTS IN BOTTOM DECK AT LEFT SIDE OF BEAM 1 AT BOTTOM FLANGE



SPAN 2 BEAM 1: SCATTERED SCRAPES IN LEFT SIDE OF BOTTOM WEB



SPAN 2 BEAM 1: SCATTERED SCRAPES TO BOTTOM WEB



SPAN 2 BEAM 1: BEAM 1 SWEEPED EASTWARD 1" FOR A LENGTH OF 20' (PAR)



SPAN 2 BEAM 1: SCATTERED SCRAPES TO BOTTOM FLANGE



SPAN 2 BEAM 1: INDENTION TO LEFT SIDE OF BOTTOM FLANGE AT 20' 9" FROM INT. BENT 1, 2" LONG X 1" WIDE X 1/8" DEEP (PAR)



SPAN 2 BEAM 1: OVERVIEW OF IMPACT DAMAGE TO BEAM 1 (PAR)



LOOKING EAST



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **IMPACT DAMAGE SUPPLEMENTAL INSPECTION /
 SPAN 2 ONLY / REFER TO PARS FOR BEAMS 1 AND,
 4 8/26/21 / PARS**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 09/02/2021

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110147 FREQUENCY: None

FACILITY CARRIED: SR1734 MILE POST: 110.72

LOCATION: .05 MI.N.JCT.SR1737

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 37.03" LONGITUDE: 81° 33' 37.85"

SUPERSTRUCTURE: _____

SUBSTRUCTURE: _____

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 5/5 SUPERSTRUCTURE 5/5 SUBSTRUCTURE 5/5 CULVERT N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: 2 VERTICAL CLEARANCE SIGNS AT 1500 ' WEST OF BRIDGE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

LOOKING EAST

INSPECTED BY ME.RENFRO	SIGNATURE <i>Mike Renfro</i>	ASSISTED BY ME.CARTER
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110147
 (8) STRUCTURE NUMBER (FEDERAL) 0230147
 (5) INVENTORY ROUTE (ON/UNDER) ON 131017340
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 69520
 (6) FEATURE INTERSECTED I-40
 (7) FACILITY CARRIED SR1734
 (9) LOCATION .05 MI.N.JCT.SR1737
 (11) MILEPOINT 110.7
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 43' 37.03" (17) LONGITUDE 81° 33' 37.85"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 58.19
 STATUS = Functionally Obsolete

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Minor Collector 16
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE No parallel structure exists N
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 6
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 5
 (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-27 49
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-16 29
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1955
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Highway - Pedestrian
 OFF - Highway CODE 51
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 3900
 (30) YEAR OF ADT 2019 (109) TRUCK ADT PCT 6
 (19) BYPASS OR DETOUR LENGTH 3.0

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 3
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY 5
 (72) APPROACH ROADWAY ALIGNMENT 3
 (36) TRAFFIC SAFETY FEATURES 0111
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 52.0
 (49) STRUCTURE LENGTH 184.0
 (50) CURB OR SIDEWALK: LEFT 3.2 RIGHT 3.2
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 26.0
 (52) DECK WIDTH OUT TO OUT 34.0
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 28.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 0 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 26.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.4
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 11.5
 (56) MIN LAT UNDERCLEARANCE LT: 14.0

PROPOSED IMPROVEMENTS CODE

(75) TYPE OF WORK
 (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 7,800 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE N
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

(90) INSPECTION DATE 09/21 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EBL	11000400	15.0	110.7	1	10040	11	2	23000	2015	43.1	H	14.4	11.5	14.0	3		1	<input type="checkbox"/>	<input type="checkbox"/>
2	I 40 E	11000400	15.0	110.7	1	10040	11	2	23000	2015	43.1	H	14.4	11.5	14.0	3	1	1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 WBL	11000400	16.9	110.7	1	10040	11	2	23000	2015	43.5	H	16.1	12.1	13.0	5		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 WBL	11000400	16.9	110.7	1	10040	11	2	23000	2015	43.5	H	16.1	12.1	13.0	5	1	1	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.



Span 2 Beam 2: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT 8" LONG WITH A 1/2" DEEP GOUGE AT 18'-8" FROM INT. BENT 2 , WITH BEAM BEING SWEEPED EASTWARD 1/2". SCATTERED SCRAPES ALONG THE BEAM (PAR) THERE IS A BENT UP SECTION ON THE WEST BOTTOM FLANGE 4" LONG X 1" HIGH AT 20' OUT FROM INT. BENT 1 (PAR)



Span 2 Beam 2: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT 8" LONG WITH A 1/2" DEEP GOUGE AT 18'-8" FROM INT. BENT 2 , WITH BEAM BEING SWEEPED EASTWARD 1/2". SCATTERED SCRAPES ALONG THE BEAM (PAR) THERE IS A BENT UP SECTION ON THE WEST BOTTOM FLANGE 4" LONG X 1" HIGH AT 20' OUT FROM INT. BENT 1 (PAR)



Span 2 Beam 2: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT 8" LONG WITH A 1/2" DEEP GOUGE AT 18'-8" FROM INT. BENT 2 , WITH BEAM BEING SWEEPED EASTWARD 1/2". SCATTERED SCRAPES ALONG THE BEAM (PAR) THERE IS A BENT UP SECTION ON THE WEST BOTTOM FLANGE 4" LONG X 1" HIGH AT 20' OUT FROM INT. BENT 1(PAR)



Span 2 Beam 2: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT 8" LONG WITH A 1/2" DEEP GOUGE AT 18'-8" FROM INT. BENT 2 , WITH BEAM BEING SWEEP EASTWARD 1/2". SCATTERED SCRAPES ALONG THE BEAM (PAR) THERE IS A BENT UP SECTION ON THE WEST BOTTOM FLANGE 4" LONG X 1" HIGH AT 20' OUT FROM INT. BENT 1 (PAR)



Span 2 Beam 2: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT 8" LONG WITH A 1/2" DEEP GOUGE AT 18'-8" FROM INT. BENT 2 , WITH BEAM BEING SWEEPED EASTWARD 1/2". SCATTERED SCRAPES ALONG THE BEAM (PAR) THERE IS A BENT UP SECTION ON THE WEST BOTTOM FLANGE 4" LONG X 1" HIGH AT 20' OUT FROM INT. BENT 1 (PAR)



Span 2 Beam 5: 2021 SUPPLEMENTAL INSPECTION 2021 : BEAM 5 SPAN 2 POINT OF IMPACT 10" LONG X 1" HIGH AT 14'10" OUT FROM INT. BENT 2 , WITH THE BEAM BEING SWEEPED EAST WARD UP TO 3" .SCATTERED SCRAPES ALONG THE BOTTOM FLANGE . PREVIOUS IMPACT DAMAGE AS NOTED IN THE ADDITIONAL COMMENTS SECTION. (PAR)



Span 2 Beam 5: 2021 SUPPLEMENTAL INSPECTION 2021 : BEAM 5 SPAN 2 POINT OF IMPACT 10" LONG X 1" HIGH AT 14'10" OUT FROM INT. BENT 2 , WITH THE BEAM BEING SWEEPED EAST WARD UP TO 3" .SCATTERED SCRAPES ALONG THE BOTTOM FLANGE . PREVIOUS IMPACT DAMAGE AS NOTED IN THE ADDITIONAL COMMENTS SECTION. (PAR)



Span 2 Beam 5: 2021 SUPPLEMENTAL INSPECTION 2021 : BEAM 5 SPAN 2 POINT OF IMPACT 10" LONG X 1" HIGH AT 14'10" OUT FROM INT. BENT 2 , WITH THE BEAM BEING SWEEPED EAST WARD UP TO 3" .SCATTERD SCRAPES ALONG THE BOTTOM FLANGE . PREVIOUS IMPACT DAMAGE AS NOTED IN THE ADDITIONAL COMMENTS SECTION. (PAR)



Span 2 Beam 5: 2021 SUPPLEMENTAL INSPECTION 2021 : BEAM 5 SPAN 2 POINT OF IMPACT 10" LONG X 1" HIGH AT 14'10" OUT FROM INT. BENT 2 , WITH THE BEAM BEING SWEEPED EAST WARD UP TO 3" .SCATTERED SCRAPES ALONG THE BOTTOM FLANGE . PREVIOUS IMPACT DAMAGE AS NOTED IN THE ADDITIONAL COMMENTS SECTION. (PAR)



Span 2 Deck: SUPPLEMENTAL INSPECTION 2021 : THERE ARE 2 HAIRLINE CRACK IN THE RIGHT OVERHANG ABOVE POINT OF IMPACT

Structure Number: 110147

Span: 2

Route Name: I40 EBL



LOOKING EAST

Route Number: 11000400	Route Name: I40 EBL	Reference Feature: H		
Minimum Vertical Clearance 14.417 feet	Maximum Minimum Vertical Clearance 14.950 feet			
Total Horizontal Clearance 43.110 feet	Lateral Clearances: Left: 13.970 feet Right: 11.460 feet			
<input checked="" type="checkbox"/> Base Highway Network	LRS Inventory Route, Sub Route Number 10040			
Milepost: 110.720	Number of Lanes: 2	ADT: 23000	Year of ADT: 2015	Percentage of Trucks: 16
<input checked="" type="checkbox"/> National Highway System	<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11	Local Principal Arterial - Interstate	Direction of Traffic: 1	1 - way traffic	

Structure Number: 110147

Span: 3

Route Name: I 40 WBL



Span 3 vertical clearance looking West

Route Number: 11000400		Route Name: I 40 WBL			Reference Feature: H	
Minimum Vertical Clearance 16.070 feet		Maximum Minimum Vertical Clearance 16.900 feet				
Total Horizontal Clearance 43.540 feet		Lateral Clearances: Left: 13.020 feet Right 12.060 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 110.720	Number of Lanes: 2	ADT: 23000	Year of ADT: 2015	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System		<input type="checkbox"/> STRAHNET Highway Designator				
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		



LOOKING EAST



REP OF LOW CLEARANCE SIGNS 1500' WEST OF BRIDGE



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **IMPACT DAMAGE REPORT FOR SPAN 3, GRADES ARE FOR DAMAGED AREAS ONLY .ROAD RESURFACED BENEATH SPANS 2 AND 3, CHANGE IN MMVC IN SPAN 3, PAR X 1**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 04/29/2019

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110169 FREQUENCY: None

FACILITY CARRIED: SR1765 MILE POST: 117.3

LOCATION: .3 MI.S.JCT.US64,70

FEATURE INTERSECTED: I-40

LATITUDE: 35° 42' 53.08" LONGITUDE: 81° 27' 10.93"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

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

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

NBI GRADES: DECK 6 SUPERSTRUCTURE 5 SUBSTRUCTURE 6 CULVERT N/A

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION E-W

DIRECTION MATCHES PLANS _____

LOOKING WEST

INSPECTED BY ME.RENFRO	SIGNATURE <i>ME Renfro</i>	ASSISTED BY BA.WILCOX
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME	NORTH CAROLINA	BRIDGE	110169	SUFFICIENCY RATING			68.48000
(8) STRUCTURE NUMBER (FEDERAL)			0230169	STATUS =			Functionally Obsolete
(5) INVENTORY ROUTE (ON/UNDER)	ON		131017650	(112) NBIS BRIDGE SYSTEM			YES
(2) STATE HIGHWAY DEPARTMENT DISTRICT			13	(104) HIGHWAY SYSTEM	Inventory Route not on NHS		0
(3) COUNTY CODE (FEDERAL)	23	(4) PLACE CODE	31060	(26) FUNCTIONAL CLASS	Urban Local		19
(6) FEATURE INTERSECTED	I-40			(100) STRAHNET HIGHWAY	Not a STRAHNET Route		0
(7) FACILITY CARRIED	SR1765			(101) PARALLEL STRUCTURE	No parallel structure exists		N
(9) LOCATION	.3 MI.S.JCT.US64,70			(102) DIRECTION OF TRAFFIC	2-way traffic		2
(11) MILEPOINT			117.3	(103) TEMPORARY STRUCTURE			
(12) BASE HIGHWAY NETWORK			0	(110) DESIGNATED NATIONAL NETWORK - on national network for trucks			0
(13) LRS INVENTORY ROUTE & SUBROUTE				(20) TOLL	On Free Road		3
(16) LATITUDE	35° 42' 53.08"	(17) LONGITUDE	81° 27' 10.93"	(21) MAINT -			01
(98) BORDER BRIDGE STATE CODE		PERCENT SHARED		(22) OWNER -			01
(99) BORDER BRIDGE STRUCTURE NUMBER				(37) HISTORICAL SIGNIFICANCE -			5
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE MAIN			Steel	(58) DECK			6
TYPE	Stringer/Multi-beam or girder	CODE	302	(59) SUPERSTRUCTURE			5
(44) STRUCTURE TYPE APPROACH				(60) SUBSTRUCTURE			6
TYPE		CODE		(61) CHANNEL & CHANNEL PROTECTION			N
(45) NUMBER OF SPANS IN MAIN UNIT			4	(62) CULVERTS			N
(46) NUMBER OF SPANS IN APPROACH			0	LOAD RATING AND POSTING			
(107) DECK STRUCTURE TYPE		CODE	1	(31) DESIGN LOAD	HS 15		3
(108)WEARING SURFACE/PROTECTIVE SYSTEM				(63) OPERATING RATING METHOD -	Load Factor		1
(A) TYPE OF WEARING SURFACE		CODE	1	(64) OPERATING RATING -	HS-27		51
(B) TYPE OF MEMBRANE		CODE	0	(65) INVENTORY RATING METHOD -			1
(C) TYPE OF DECK PROTECTION		CODE	0	(66) INVENTORY RATING	HS-16		30
AGE AND SERVICE				(70) BRIDGE POSTING	No Posting Required		5
(27) YEAR BUILT			1956	(41) STRUCTURE OPEN, POSTED, OR CLOSED			A
(106) YEAR RECONSTRUCTED			0.000000	DESCRIPTION	Open, no restriction		
(42) TYPE OF SERVICE ON -		Highway - Pedestrian		APPRAISAL			
OFF -		Highway	CODE 51	(67) STRUCTURAL EVALUATION			5
(28) LANES ON STRUCTURE	2	LANES UNDER STRUCTURE	4	(68) DECK GEOMETRY			5
(29) AVERAGE DAILY TRAFFIC			800	(69) UNDERCLEARANCES, VERT & HORIZ			3
(30) YEAR OF ADT	2015	(109) TRUCK ADT PCT	7	(71) WATERWAY ADEQUACY			5
(19) BYPASS OR DETOUR LENGTH			2.0	(72) APPROACH ROADWAY ALIGNMENT			5
GEOMETRIC DATA				(36) TRAFFIC SAFETY FEATURES			0111
(48) LENGTH OF MAXIMUM SPAN			52.0	(113) SCOUR CRITICAL BRIDGES			N
(49) STRUCTURE LENGTH			189.0	PROPOSED IMPROVEMENTS			
(50) CURB OR SIDEWALK: LEFT	3.1	RIGHT	3.1	(75) TYPE OF WORK			CODE
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB			26.0	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(52) DECK WIDTH OUT TO OUT			34.4	(94) BRIDGE IMPROVEMENT COST			
(32) APPROACH ROADWAY WITH (W/ SHOULDERS)			21.0	(95) ROADWAY IMPROVEMENT COST			
(33) BRIDGE MEDIAN		No median	CODE 0	(96) TOTAL PROJECT COST			
(34) SKEW	0	(35) STRUCTURE FLARED	0	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9	(114) FUTURE ADT	1,600	YEAR OF FUTURE ADT	2025
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			26.0	INSPECTION			
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9	(90) INSPECTION DATE	10/17	(91) FREQUENCY	24
(54) MIN VERT UNDERCLEAR: REFERENCE		H	14.8	(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE	
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE		H	10.9	A) FRACTURE CRIT DETAIL	0	A)	
(56) MIN LAT UNDERCLEARANCE LT:			13.6	B) UNDERWATER INSP	0	B)	
NAVIGATION DATA				C) OTHER SPECIAL INSP	0	C)	
(38) NAVIGATION CONTROL -		CODE	N	SCOUR			
(111) PIER PROTECTION		CODE					
(39) NAVIGATION VERTICAL CLEARANCE			0.0				
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR			0.0				
(40) NAVIGATION HORIZONTAL CLEARANCE			0.0				

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 E	11000400	15.5	117.2	1	10040	11	2	26500	2017	43.3	H	15.2	11.9	13.9	4	1	1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	14.7	117.2	1	10040	11	2	26500	2017	43.0	H	14.7	12.5	13.6	3	1	1	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.



Span 3 Beam 1: DAMAGE TO BEAM 1 SPAN 3 STARTING AT 13.5' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 10'. POINT OF IMPACT MEASURED AT 17.417' FROM INTERIOR BENT 3, WITH SCATTERED SCRAPES AND INDENTIONS THROUGHOUT.



Span 3 Beam 1: DAMAGE TO BEAM 1 SPAN 3 STARTING AT 13.5' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 10'. POINT OF IMPACT MEASURED AT 17.417' FROM INTERIOR BENT 3, WITH SCATTERED SCRAPES AND INDENTIONS THROUGHOUT.



Span 3 Beam 1: DAMAGE TO BEAM 1 SPAN 3 STARTING AT 13.5' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 10'. POINT OF IMPACT MEASURED AT 17.417' FROM INTERIOR BENT 3, WITH SCATTERED SCRAPES AND INDENTIONS THROUGHOUT.



Span 3 Beam 1: DAMAGE TO BEAM 1 SPAN 3 STARTING AT 13.5' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 10'. POINT OF IMPACT MEASURED AT 17.417' FROM INTERIOR BENT 3, WITH SCATTERED SCRAPES AND INDENTIONS THROUGHOUT.



Span 3 Beam 1: BEAM 1 SPAN 3 IS DEFLECTED UPWARD 1" STARTING AT 14.583' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 6'



Span 3 Beam 1: BEAM 1 SPAN 3 IS DEFLECTED WESTWARD 1" FOR A TOTAL LENGTH OF 10'. PAR



Span 3 Beam 1: CRACK IN WELD OF PLATE AT BOTTOM FLANGE OF BEAM 1 SPAN 3 MEASURED AT 17' FROM INTERIOR BENT 3 FOR A LENGTH OF 1'



Span 3 Beam 2: SPALL AT TOP FLANGE OF WEST SIDE OF BEAM 2 SPAN 3. 17" LONG BY 6" WIDE BY 1/4" DEEF MEASURED AT 15.417' FROM INTERIOR BENT 3



Span 3 Beam 2: DAMAGE TO BEAM 2 SPAN 3 STARTING AT 15.333' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 5', WITH SCRAPES THROUGHOUT BOTTOM FLANGE. POINT OF IMPACT MEASURED AT 16.917' FROM INTERIOR BENT 3



Span 3 Beam 2: DAMAGE TO BEAM 2 SPAN 3 STARTING AT 15.333' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 5', WITH SCRAPES THROUGHOUT BOTTOM FLANGE. POINT OF IMPACT MEASURED AT 16.917' FROM INTERIOR BENT 3



Span 3 Beam 2: DAMAGE TO BEAM 2 SPAN 3 STARTING AT 15.333' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 5', WITH SCRAPES THROUGHOUT BOTTOM FLANGE. POINT OF IMPACT MEASURED AT 16.917' FROM INTERIOR BENT 3



Span 3 Beam 2: BEAM 2 SPAN 3 DEFLECTED UPWARD 1/2" AT POINT OF IMPACT FOR A LENGTH OF 5'



Span 3 Beam 2: MINOR INDENTIONS IN BEAM 2 SPAN 3 STARTING AT 18.167' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 2'



Span 3 Beam 3: BEAM 4 SPAN 3 HAS SCRAPES TO BOTTOM FLANGE AT 16.917' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 2'



Span 3 Beam 4: BEAM 4 SPAN 3 HAS SCRAPES TO BOTTOM FLANGE AT 16.75' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 1'



Span 3 Beam 5: BEAM 5 SPAN 3 HAS SCRAPES ON BOTTOM FLANGE AT 16.5' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 1'. INDENTATION AT 16.417' FROM INTERIOR BENT 3, 1" LONG BY 1/4" DEEP



Span 3 Beam 5: BEAM 5 SPAN 3 HAS SCRAPES ON BOTTOM FLANGE AT 16.5' FROM INTERIOR BENT 3 FOR A TOTAL LENGTH OF 1'. INDENTATION AT 16.417' FROM INTERIOR BENT 3, 1" LONG BY 1/4" DEEP



Span 3 Beam 1: BEAM 1 SPAN 3 HAS INDENTION AT 21.167' FROM INTERIOR BENT 2 FOR A LENGTH OF 2', WITH UPWARD DEFLECTION OF 1/2". ONE INDENTION 15.5' FROM INTERIOR BENT 2 FOR A LENGTH OF 1', WITH UPWARD DEFLECTION OF 1/4"



Span 3 Beam 1: BEAM 1 SPAN 3 HAS INDENTATION AT 21.167' FROM INTERIOR BENT 2 FOR A LENGTH OF 2', WITH UPWARD DEFLECTION OF 1/2". ONE INDENTION 15.5' FROM INTERIOR BENT 2 FOR A LENGTH OF 1', WITH UPWARD DEFLECTION OF 1/4"



Span 3 Beam 1: BEAM 1 SPAN 3 DEFLECTED UPWARD 1/2" AT 22.75' FROM INTERIOR BENT 2 FOR A LENGTH OF 1'



Span 3 Beam 2: BEAM 2 SPAN 3 DEFLECTED UPWARD 1/2" AT 19.5" FROM INTERIOR BENT 2 FOR A LENGTH OF 4', WITH SCRAPES ON BOTTOM FLANGE



Span 3 Beam 2: BEAM 2 SPAN 3 DEFLECTED UPWARD 1/2" AT 19.5" FROM INTERIOR BENT 2 FOR A LENGTH OF 4', WITH SCRAPES ON BOTTOM FLANGE



Span 3 Beam 3: TWO INDENTIONS IN BOTTOM FLANGE OF BEAM 3 SPAN 3. ONE 1/4" DEEP AND ONE 1/2" DEEP AT 15.583" FROM INTERIOR BENT 2 FOR A TOTAL LENGTH OF 1'



Span 3 Beam 3: BEAM 3 SPAN 3 DEFLECTED UPWARD 1/4" FOR A LENGTH OF 3' AT 15' FROM INTERIOR BENT 2



Span 3 Beam 3: SPALL AT EAST SIDE OF TOP FLANGE OF BEAM 3 SPAN 3. 3' LONG AT 12' FROM INTERIOR BENT 2



Span 3 Beam 3: SPALL AT EAST SIDE OF TOP FLANGE OF BEAM 3 SPAN 3. 3' LONG AT 12' FROM INTERIOR BENT 2. SPALL. SPALL AT EAST SIDE OF TOP FLANGE OF BEAM 3 SPAN 2. 2' LONG AT 20' FROM INTERIOR BENT 2



Span 3 Beam 5: TWO 1/4" DEEP INDENTIONS IN BOTTOM FLANGE OF BEAM 5 SPAN 3 AT 16.5' FROM INTERIOR BENT 2 FOR A LENGTH OF 1'



Span 3 Beam 5: BEAM 5 SPAN 3 IS DEFLECTED UPWARD 1/4" AT 16.417' FROM INTERIOR BENT 2 FOR A LENGTH OF 3'



BEAM 1 SPAN 3: DIAPHRAGM 2 BAY 2 DEFLECTED SOUTHWARD FOR 1/2"

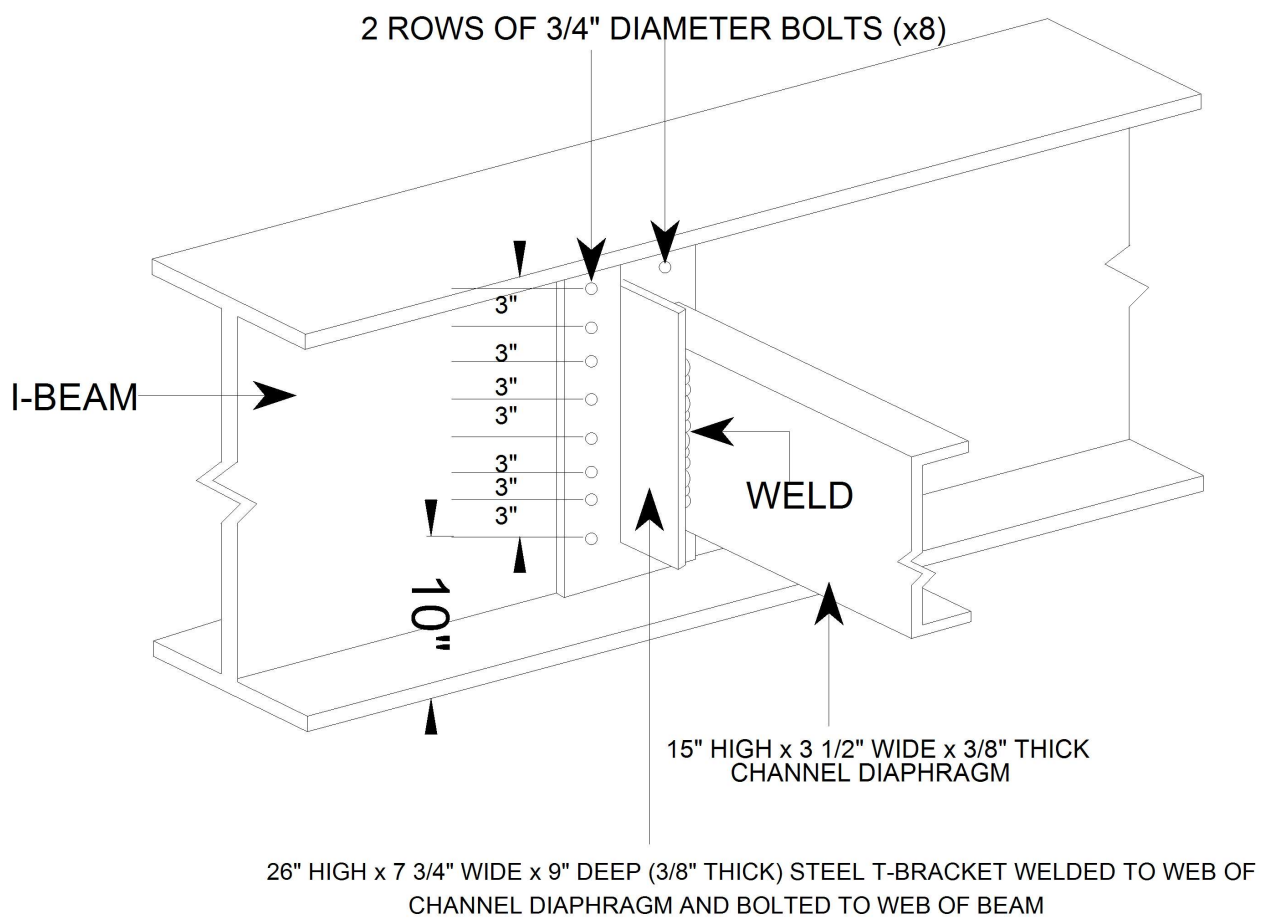


LOOKING WEST

Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

LOCATIONS : MIDPOINT OF SPANS #1 & 4, 1/3 POINTS OF SPANS # 2 & 3



NOTE: DEEPER BEAMS HAVE TWO ROWS OF 10 BOLTS

MEASUREMENTS VERIFIED BY AKOWOK 10/18/2017

Title

INTERMEDIATE DIAPHRAGMS

Description

DATA WORKSHEET

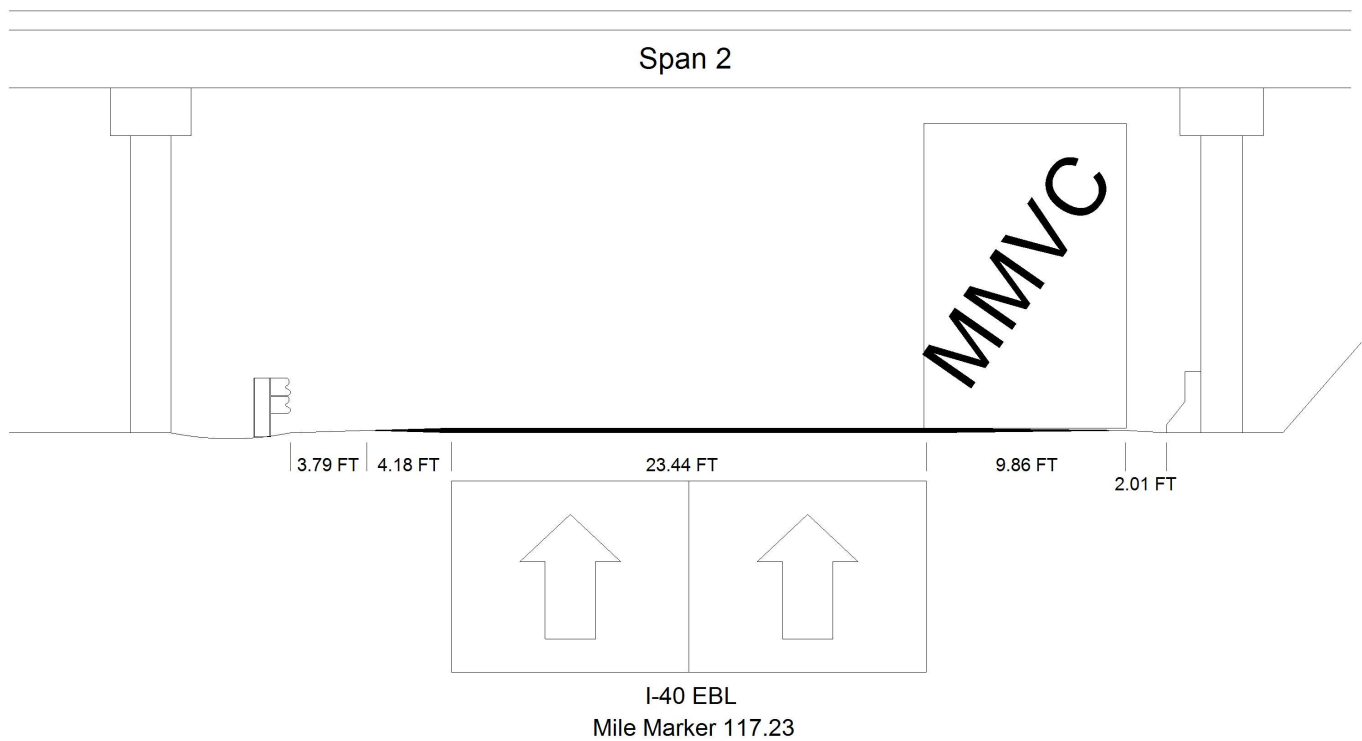
Bridge No: 110169

Drawn By: DELVIN ADAMS

Date: 10/24/2011

File Name: S0146031588

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	East
Distance to Left Rail	7.97FT	Distance to Right Rail	11.87FT
Distance to Left Toe of Slope		Distance to Left Bent	13.86FT
Distance to Right Toe of Slope		Distance to Right Bent	12.98FT
MMVC	15.45 Ft at Beam 1, 10 FT from EDGE OF RIGHT PAVED SHOULDER		
MVC	15.22 Ft at Beam 1, 6 FT from LEFT EDGE OF THRU LANES		

MEASUREMENTS RECORDED BY LIDAR ON 5.30.13

Title

UNDER CLEARANCE, EBL

Description

SPAN 2, I-40 EBL

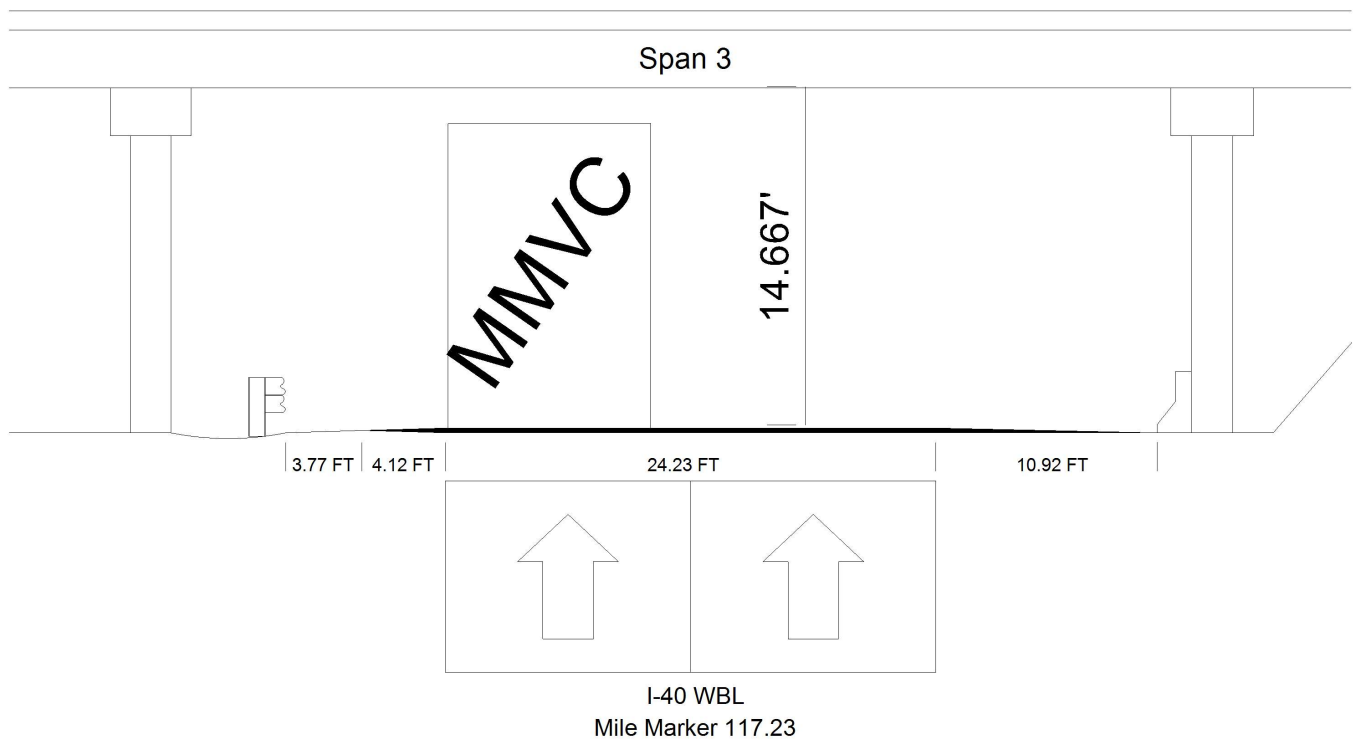
Bridge No: 110169

Drawn By: DCR

Date: 9/27/07

File Name: S0146007690

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	West
Distance to Left Rail	7.89FT	Distance to Right Rail	10.92FT
Distance to Left Toe of Slope		Distance to Left Bent	13.55FT
Distance to Right Toe of Slope		Distance to Right Bent	12.5FT
MMVC	14.667 Ft at Beam 1, 10 FT from EDGE OF LEFT PAVED SHOULDER		
MVC	14.667 Ft at Beam 1, 6 FT from RIGHT EDGE OF THRU LANES		

VERIFIED AND REVISED BY ME RENFRO AND BA WILCOX ON 5/31/18

VERIFIED AND REVISED BY ME RENFRO AND BA WILCOX ON 4/29/19

1-40 RESURFACED BENEATH THE BRIDGE 4/29/2019 CHANGE IN MMVC

MEASUREMENTS RECORDED BY LIDAR ON 5.30.13

Title		Description	
UNDER CLEARANCE, WBL		SPAN 3, I-40 WBL	
Bridge No: 110169	Drawn By: DCR	Date: 9/27/07	File Name: S0146007691



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **SUPPLEMENTAL INSPECTION SPAN 3 IMPACT
 DAMAGE / CHANGE IN VERTICAL CLEARANCE SPAN
 3 / POA REQUESTED**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 03/29/2022

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110169 FREQUENCY: None

FACILITY CARRIED: SR1765 MILE POST: 117.3

LOCATION: .3 MI.S.JCT.US64,70

FEATURE INTERSECTED: I-40

LATITUDE: 35° 42' 53.08" LONGITUDE: 81° 27' 10.93"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

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

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 5/5 SUPERSTRUCTURE 6/6 SUBSTRUCTURE 6/6 CULVERT N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

LOOKING WEST

INSPECTED BY ME.RENFRO	SIGNATURE <i>Mike Renfro</i>	ASSISTED BY ME.CARTER
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NATIONAL BRIDGE INVENTORY ----- STRUCTURE INVENTORY AND APPRAISAL

04/26/2022

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110169
 (8) STRUCTURE NUMBER (FEDERAL) 0230169
 (5) INVENTORY ROUTE (ON/UNDER) ON 131017650
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 33320
 (6) FEATURE INTERSECTED I-40
 (7) FACILITY CARRIED SR1765
 (9) LOCATION .3 MI.S.JCT.US64,70
 (11) MILEPOINT 117.3
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 42' 53.08" (17) LONGITUDE 81° 27' 10.93"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 78.43
 STATUS = Functionally Obsolete

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Local 19
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE No parallel structure exists N
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 1
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 6
 (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 51
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-17 30
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1956
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Highway - Pedestrian
 OFF - Highway CODE 51
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 800
 (30) YEAR OF ADT 2019 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 3.0

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 5
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0111
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 52.0
 (49) STRUCTURE LENGTH 189.0
 (50) CURB OR SIDEWALK: LEFT 3.1 RIGHT 3.1
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 26.0
 (52) DECK WIDTH OUT TO OUT 34.4
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 21.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 0 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 26.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.6
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 12.5
 (56) MIN LAT UNDERCLEARANCE LT: 13.6

PROPOSED IMPROVEMENTS CODE

(75) TYPE OF WORK
 (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 1,600 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE N
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

(90) INSPECTION DATE 10/21 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR

Priority Actions Request

Structure Number 110169

Span3

3314 Beam 1 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Cracking	1	Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. Crack in weld of plate at bottom flange of beam 1 span 3 measured at 17ft from bent 3 for a length of 1ft
2	Distortion	20	Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERD 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1/2" TO THE WEST. .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE. (PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .

Removal of Hazard

Removal of Hazard Removal of Hazard

Priority Level	Defect Type	Quantity	Defect Description
2		1	SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 3 DIAPHRAGM 2 BAY 1: 20 BOLTS WITH 6 MISSING ON BEAM 1, UP TO 1' HIGH CRACKING STRATING AT 1/32" WIDE AT TOP AND UP TO 1 1/8" AT BOTTOM OF DIAPHRAGM (PAR) .



Span 3 Deck: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. spalling up to 12" WIDE X 1" deep, full length, underside of deck along both sides of beam 1.



Span 3 Deck: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. spalling up to 12" WIDE X 1" deep, full length, underside of deck along both sides of beam 1.



Span 3 Deck: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: full length x up to 1/2in deep surface spalling, in underside of deck, along edges of beam 3.



Span 3 Deck: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.surface spalling up to 1/2in deep, full length, underside of deck along both sides of beam 2.



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1/2" TO THE WEST. .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE. (PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1/2" TO THE WEST. .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE. (PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERD 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1/2" TO THE WEST. .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE. (PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1/2" TO THE WEST. .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE. (PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1/2" TO THE WEST. .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE. (PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1/2" TO THE WEST. .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE. (PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. Crack in weld of plate at bottom flange of beam 1 span 3 measured at 17ft from bent 3 for a length of 1ft



Span 3 Beam 2: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: beam 2 span 3 deflected upward 1/2in at 19.5in from bent 2 for a length of 4ft, with scrapes on bottom flange



Span 3 Beam 2: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: beam 2 span 3 deflected upward 1/2in at 19.5in from bent 2 for a length of 4ft, with scrapes on bottom flange



Span 3 Beam 2: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: beam 2 span 3 deflected upward 1/2in at 19.5in from bent 2 for a length of 4ft, with scrapes on bottom flange



Span 3 Beam 2: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: SCATTERED SCRAPES WEB OF BEAM 2 .



Span 3 Beam 3: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. : SCATTERED SCRAPES ALONG BOTTOM FLANGE OF BEAM 3



Span 3 Beam 4: bSUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: Beam 4 Span 3 has scrapes to bottom flange at 16.75ft from bent 3 for a total length of 1ft



Span 3 Beam 5: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: two 1/4in deep indentions in bottom flange of beam 5 span 3 at 16.5ft from bent 2 for a length of 1ft



Span 3 Beam 5: beam 5 span 3 has scrapes on bottom flange



SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 3 DIAPHRAGM 2 BAY 1: 20 BOLTS WITH 6 MISSING ON BEAM 1, UP TO 1' HIGH CRACKING STRATING AT 1/32" WIDE AT TOP AND UP TO 1 1/8" AT BOTTOM OF DIAPHRAGM (PAR) .



SPAN 3 DIAPHRAGM 2 BAY 1: 20 BOLTS WITH 6 MISSING ON BEAM 1, UP TO 1' HIGH CRACKING STRATING AT 1/32" WIDE AT TOP AND UP TO 1 1/8" AT BOTTOM OF DIAPHRAGM (PAR) .



SPAN 3 DIAPHRAGM 2 BAY 1: 20 BOLTS WITH 6 MISSING ON BEAM 1, UP TO 1' HIGH CRACKING STRATING AT 1/32" WIDE AT TOP AND UP TO 1 1/8" AT BOTTOM OF DIAPHRAGM (PAR) .



SCATTERED SCRAPES ALONG WEB BEAM 2 SPAN 3

Structure Number: 110169

Span: 2

Route Name: I 40 E



vertical clearance looking East [span 2]

Route Number: 11000400		Route Name: I 40 E			Reference Feature: H
Minimum Vertical Clearance 15.220 feet		Maximum Minimum Vertical Clearance 15.450 feet			
Total Horizontal Clearance 43.280 feet		Lateral Clearances: Left: 13.860 feet Right 11.870 feet			
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040			
Milepost: 117.230	Number of Lanes: 2	ADT: 26500	Year of ADT: 2017	Percentage of Trucks: 16	
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator		
Functional Classification 11	Local Principal Arterial - Interstate	Direction of Traffic: 1 1 - way traffic			

Structure Number: 110169

Span: 3

Route Name: I40W



LOOKING WEST

Route Number: 11000400		Route Name: I40W			Reference Feature: H	
Minimum Vertical Clearance 14.583 feet		Maximum Minimum Vertical Clearance 14.583 feet				
Total Horizontal Clearance 43.040 feet		Lateral Clearances: Left: 13.550 feet Right 12.500 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 117.230	Number of Lanes: 2	ADT: 26500	Year of ADT: 2017	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **SUPPLEMENTAL INSPECTION / IMPACT DAMAGE
 SPAN 3/ PAR ISSUED / CHANGE IN VERTICAL
 CLEARANCE**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 05/11/2022

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110169 FREQUENCY: None

FACILITY CARRIED: SR1765 MILE POST: 117.3

LOCATION: .3 MI.S.JCT.US64,70

FEATURE INTERSECTED: I-40

LATITUDE: 35° 42' 53.08" LONGITUDE: 81° 27' 10.93"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

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

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 5/5 SUPERSTRUCTURE 6/6 SUBSTRUCTURE 6/6 CULVERT N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

LOOKING WEST

INSPECTED BY ME.RENFRO	SIGNATURE <i>Mike Renfro</i>	ASSISTED BY ME.CARTER
---------------------------	---------------------------------	--------------------------

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110169
 (8) STRUCTURE NUMBER (FEDERAL) 0230169
 (5) INVENTORY ROUTE (ON/UNDER) ON 31017650
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 33320
 (6) FEATURE INTERSECTED I-40
 (7) FACILITY CARRIED SR1765
 (9) LOCATION .3 MI.S.JCT.US64,70
 (11) MILEPOINT 117.3
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 42' 53.08" (17) LONGITUDE 81° 27' 10.93"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 78.43
 STATUS = Functionally Obsolete

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Local 19
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE 0
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 1
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 6
 (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 51
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-17 30
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1956
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Highway - Pedestrian
 OFF - Highway CODE 51
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 800
 (30) YEAR OF ADT 2019 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 3.0

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 5
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES N
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 52.0
 (49) STRUCTURE LENGTH 189.0
 (50) CURB OR SIDEWALK: LEFT 3.1 RIGHT 3.1
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 26.0
 (52) DECK WIDTH OUT TO OUT 34.4
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 21.0
 (33) BRIDGE MEDIAN CODE 5
 (34) SKEW 0 (35) STRUCTURE FLARED 0111
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.6
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 12.5
 (56) MIN LAT UNDERCLEARANCE LT: 13.6

PROPOSED IMPROVEMENTS CODE

(75) TYPE OF WORK
 (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 1,600 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 6
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE

INSPECTION

(90) INSPECTION DATE 10/21 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1" TO THE WEST. TOP FLANGE PULLED LOOSE FROM BEAM EAST SIDE FOR A LENGTH OF 30' X 3/4" .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB(PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1" TO THE WEST. TOP FLANGE PULLED LOOSE FROM BEAM EAST SIDE FOR A LENGTH OF 30' X 3/4" .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB(PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



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Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1" TO THE WEST. TOP FLANGE PULLED LOOSE FROM BEAM EAST SIDE FOR A LENGTH OF 30' X 3/4" .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB(PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1" TO THE WEST. TOP FLANGE PULLED LOOSE FROM BEAM EAST SIDE FOR A LENGTH OF 30' X 3/4" .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB(PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1" TO THE WEST. TOP FLANGE PULLED LOOSE FROM BEAM EAST SIDE FOR A LENGTH OF 30' X 3/4" .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB(PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Deck: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.surface spalling up to 1/2in deep, full length, underside of deck along both sides of beam 1.



Span 3 Deck: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.surface spalling up to 1/2in deep, full length, underside of deck along both sides of beam 2.



Span 3 Deck: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: full length x up to 1/2in deep surface spalling, in underside of deck, along edges of beam 3.



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1" TO THE WEST. TOP FLANGE PULLED LOOSE FROM BEAM EAST SIDE FOR A LENGTH OF 30' X 3/4" .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB(PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. Crack in weld of plate at TOP flange of beam 1 span 3 measured at 17ft from bent 3 for a length of 1ft



Span 3 Beam 2: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: beam 2 span 3 deflected upward 1/2in at 19.5in from bent 2 for a length of 4ft, with scrapes on bottom flange . SCATTERED SCRAPES ALONG THE WEB .



Span 3 Beam 4: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: Beam 4 Span 3 has scrapes to bottom flange at 16.75ft from bent 3 for a total length of 1ft



Span 3 Beam 5: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: two 1/4in deep indentions in bottom flange of beam 5 span 3 at 16.5ft from bent 2 for a length of 1ft . SCATTERED SCRAPES



Span 3 Beam 5: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: two 1/4in deep indentions in bottom flange of beam 5 span 3 at 16.5ft from bent 2 for a length of 1ft . SCATTERED SCRAPES



UP TO 1" WIDE CRACKING DIAPHRAGM 2 BAY 1



UP TO 1" WIDE CRACKING DIAPHRAGM 2 BAY 1



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9' LONG WITH SCATTERED 1" DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12'-9" OUT FROM INT. BENT 3 . BEAM 1 DEFLECTION 1" TO THE WEST. TOP FLANGE PULLED LOOSE FROM BEAM EAST SIDE FOR A LENGTH OF 30' X 3/4" .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2in. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB(PAR) . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .



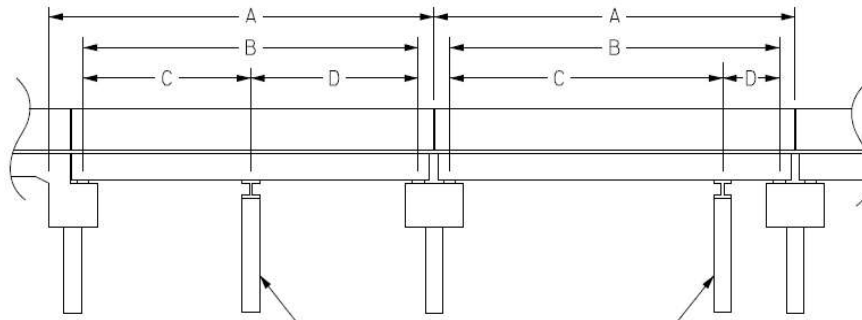
6 DIAPHRAGM BOLTS MISSING BEAM 1

Structure Data Worksheet

Span Profile

County: BURKE

Structure Number: 110169



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	42.000	40.250			
2	52.500	51.500			
3	52.500	51.500			
4	42.000	40.250			

Structure Number: 110169

Span: 2

Route Name: I40E



vertical clearance looking East [span 2]

Route Number: 11000400		Route Name: I40E			Reference Feature: H	
Minimum Vertical Clearance 15.220 feet		Maximum Minimum Vertical Clearance 15.450 feet				
Total Horizontal Clearance 43.280 feet		Lateral Clearances: Left: 13.860 feet Right 11.870 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 117.230	Number of Lanes: 2	ADT: 26500	Year of ADT: 2017	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		

Structure Number: 110169

Span: 3

Route Name: I40W



LOOKING WEST

Route Number: 11000400		Route Name: I40W			Reference Feature: H
Minimum Vertical Clearance 14.583 feet		Maximum Minimum Vertical Clearance 14.583 feet			
Total Horizontal Clearance 43.040 feet		Lateral Clearances: Left: 13.550 feet Right 12.500 feet			
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040			
Milepost: 117.230	Number of Lanes: 2	ADT: 26500	Year of ADT: 2017	Percentage of Trucks: 16	
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator		
Functional Classification 11	Local Principal Arterial - Interstate	Direction of Traffic: 1 1 - way traffic			

Structure Number: 110169

Span: 3

Route Name: I40W

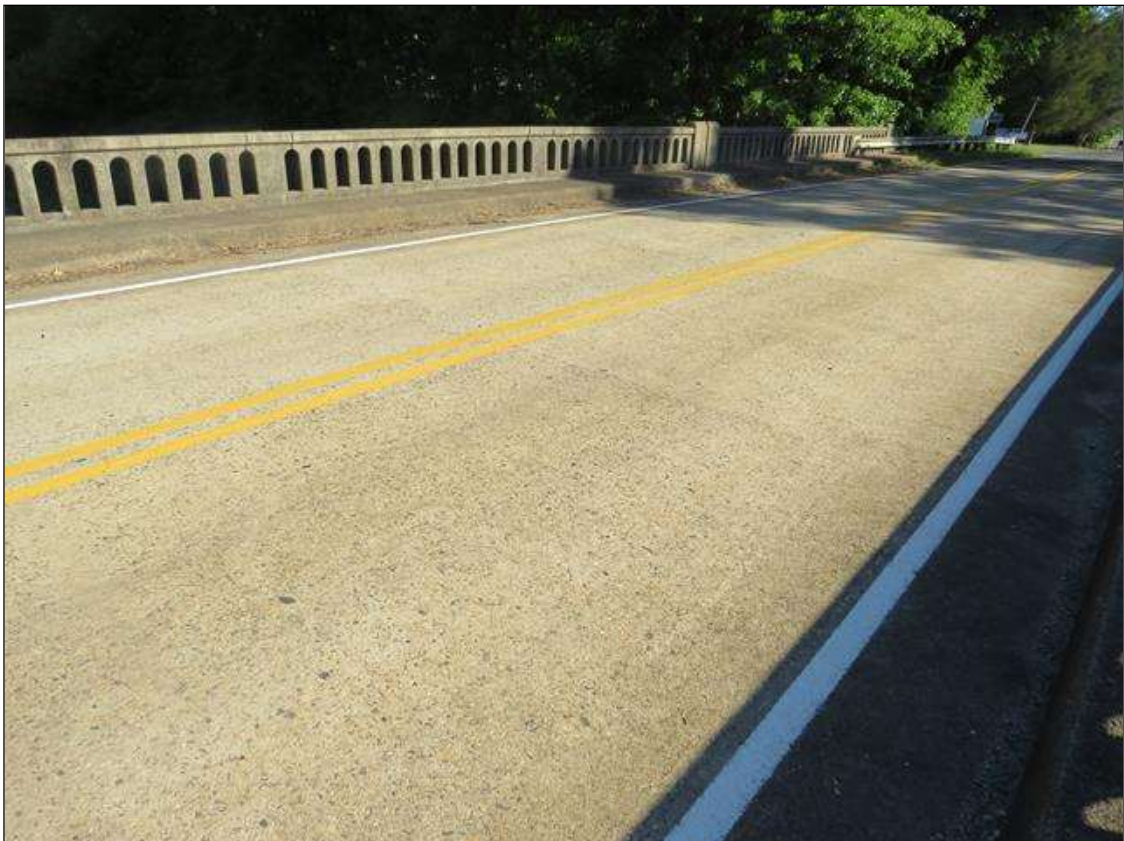


LOOKING WEST

Route Number: 11000400		Route Name: I40W			Reference Feature: H	
Minimum Vertical Clearance 14.500 feet		Maximum Minimum Vertical Clearance 14.583 feet				
Total Horizontal Clearance 43.040 feet		Lateral Clearances: Left: 13.550 feet Right 12.500 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 117.230	Number of Lanes: 2	ADT: 25500	Year of ADT: 2019	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		



LOOKING WEST



TOP OF DECK SPAN 3



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **SUPPLEMENTAL INSPECTION / IMPACT DAMAGE / SPAN 3 / PAR**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 11/30/2021

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110173 FREQUENCY: None

FACILITY CARRIED: SR1002 MILE POST: _____

LOCATION: .2 MI.N.JCT.SR1780

FEATURE INTERSECTED: I-40

LATITUDE: 35° 42' 19.14" LONGITUDE: 81° 25' 24.74"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS (WIDENED)

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

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 5/5 SUPERSTRUCTURE 4/4 SUBSTRUCTURE 4/4 CULVERT n/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

LOOKING WEST

INSPECTED BY ME.RENFRO	SIGNATURE <i>Mike Renfro</i>	ASSISTED BY ME.CARTER
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110173
 (8) STRUCTURE NUMBER (FEDERAL) 0230173
 (5) INVENTORY ROUTE (ON/UNDER) ON 131010020
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 31500
 (6) FEATURE INTERSECTED I-40
 (7) FACILITY CARRIED SR1002
 (9) LOCATION .2 MI.N.JCT.SR1780
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 42' 19.14" (17) LONGITUDE 81° 25' 24.74"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 61.86
 STATUS = Structurally Deficient

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Collector 17
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE No parallel structure exists N
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 6
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 4
 (60) SUBSTRUCTURE 4
 (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-27 49
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-16 29
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED
 DESCRIPTION Open, no restriction A

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 4
 (68) DECK GEOMETRY 9
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0110
 (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 11,700 YEAR OF FUTURE ADT 2040

INSPECTION

(90) INSPECTION DATE 10/21 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR

AGE AND SERVICE

(27) YEAR BUILT 1956
 (106) YEAR RECONSTRUCTED 1975
 (42) TYPE OF SERVICE ON - Overpass Structure
 OFF - Highway CODE 61
 (28) LANES ON STRUCTURE 4 LANES UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 5850
 (30) YEAR OF ADT 2019 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 0.0

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 57.0
 (49) STRUCTURE LENGTH 207.0
 (50) CURB OR SIDEWALK: LEFT 0.0 RIGHT 0.0
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 67.4
 (52) DECK WIDTH OUT TO OUT 70.0
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 58.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 27 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 67.4
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.8
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 8.7
 (56) MIN LAT UNDERCLEARANCE LT: 13.3

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE N
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EB - LIDAR 05/30/13	1100040	16.4	119.0	1	10040	11	2	22500	2015	42.7	H	16.1	11.6	12.3	5		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 WB - LIDAR 05/30/13	1100040	15.0	119.0	1	10040	11	2	22500	2015	43.3	H	14.8	8.7	13.3	3		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	1100040	15.0	119.0	1	10040	11	2	25750	2019	43.3	H	14.8	8.7	13.3	3	1	1	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 11: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2" lateral up to 1/2" with broken cover plate weld [10" long]. new area of impact damage 6" long x 2" high at 13'-5" out from int. bent 3 . with the bottom cover plate being broken loose from bottom flange 10" long x 2" deep . there are also two older 1/2" indentions in the same area . Beam 11 is swept westward up to 1 1/2". (par) there is a 2" diameter torch cut hole at both ends of of the 6' length .



Span 3 Beam 10: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indentation 1" long x 1/2" deep at 18'-8" from int. bent 3 . scattered scrapes along the web .



Span 3 Beam 10: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indentation 1" long x 1/2" deep at 18'-8" from int. bent 3 . scattered scrapes along the web .



Span 3 Beam 10: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indentation 1" long x 1/2" deep at 18'-8" from int. bent 3 . scattered scrapes along the web .



Span 3 Beam 9: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indentation 1" long x 1/4" deep at 18'-7" from int. bent 3



Span 3 Beam 4: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: scattered scrapes



Span 3 Beam 3: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes



Span 3 Beam 2: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes



Span 3 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes

Structure Number: 110173

Span: 2

Route Name: I 40 EB - LIDAR 05/30/13



vertical clearance looking East Span 2 (choose 1)

Route Number: 1100040		Route Name: I 40 EB - LIDAR 05/30/13			Reference Feature: H	
Minimum Vertical Clearance 16.060 feet		Maximum Minimum Vertical Clearance 16.360 feet				
Total Horizontal Clearance 42.650 feet		Lateral Clearances: Left: 12.250 feet Right 11.580 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 119.020	Number of Lanes: 2	ADT: 22500	Year of ADT: 2015	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		

Structure Number: 110173

Span: 3

Route Name: I 40 WB - LIDAR 05/30/13



LOOKING WEST CLEARANCE

Route Number: 1100040		Route Name: I 40 WB - LIDAR 05/30/13			Reference Feature: H	
Minimum Vertical Clearance 14.770 feet		Maximum Minimum Vertical Clearance 14.950 feet				
Total Horizontal Clearance 43.270 feet		Lateral Clearances: Left: 13.280 feet Right 8.670 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 119.020	Number of Lanes: 2	ADT: 22500	Year of ADT: 2015	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		



LOOKING WEST



LOOKING WEST CLEARANCE



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **SUPPLEMENTAL INSPECTION / IMPACT DAMAGE
 SPAN 2 ONLY / PAR X2 / CHANGE IN MMVC**

Structure Safety Report

Supplemental Element Inspection

INSPECTION DATE: 01/25/2022

DIVISION: 13 COUNTY: MCDOWELL STRUCTURE NUMBER: 580143 FREQUENCY: None

FACILITY CARRIED: I-40 WBL MILE POST: 86.38

LOCATION: 1.8 MI.E.JCT.US221

FEATURE INTERSECTED: NC226

LATITUDE: 35° 39' 29.71" LONGITUDE: 81° 57' 44.59"

SUPERSTRUCTURE: RC FLOOR ON I-BEAMS (S.I.P. METAL FORMS)(WIDENED)

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT BT:RC P&B/PILE FTGS.

SPANS: 3 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 5/5 SUPERSTRUCTURE 6/6 SUBSTRUCTURE 6/6 CULVERT N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION W-E

DIRECTION MATCHES PLANS

LOOKING SOUTH

INSPECTED BY ME.RENFRO	SIGNATURE <i>Mike Renfro</i>	ASSISTED BY ME.CARTER
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 580143
 (8) STRUCTURE NUMBER (FEDERAL) 1110143
 (5) INVENTORY ROUTE (ON/UNDER) ON 11000400
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 111 (4) PLACE CODE 41420
 (6) FEATURE INTERSECTED NC226
 (7) FACILITY CARRIED I-40 WBL
 (9) LOCATION 1.8 M.I.E.JCT.US221
 (11) MILEPOINT 86.4
 (12) BASE HIGHWAY NETWORK 1
 (13) LRS INVENTORY ROUTE & SUBROUTE 10040
 (16) LATITUDE 35° 39' 29.71" (17) LONGITUDE 81° 57' 44.59"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 88.79
 STATUS = Functionally Obsolete

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route is on NHS 1
 (26) FUNCTIONAL CLASS Urban Principal Arterial - Interstate 11
 (100) STRAHNET HIGHWAY Interstate STRAHNET Route 1
 (101) PARALLEL STRUCTURE 1
 (102) DIRECTION OF TRAFFIC 1-way traffic 1
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 1
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 3
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 1
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 1

CONDITION CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 6
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD H 20 + Mod 6
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-55 99
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-33 60
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED
 DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1958
 (106) YEAR RECONSTRUCTED 1997
 (42) TYPE OF SERVICE ON - Overpass Structure
 OFF - Highway CODE 61
 (28) LANES ON STRUCTURE 3 LANES UNDER STRUCTURE 2
 (29) AVERAGE DAILY TRAFFIC 13500
 (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 16
 (19) BYPASS OR DETOUR LENGTH 2.0

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY 6
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES N
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 57.0
 (49) STRUCTURE LENGTH 174.0
 (50) CURB OR SIDEWALK: LEFT 0.0 RIGHT 0.0
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 48.2
 (52) DECK WIDTH OUT TO OUT 51.0
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 48.0
 (33) BRIDGE MEDIAN CODE 5
 (34) SKEW 5 (35) STRUCTURE FLARED 1111
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.7
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 2.5
 (56) MIN LAT UNDERCLEARANCE LT: 0.0

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 27,000 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 6
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE

INSPECTION

(90) INSPECTION DATE 04/20 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)

SCOUR

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	NC226 N	31002260	15.0	0.0	0		16	4	13000	2013	53.0	H	14.7	2.5	2.0	3		2	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 2 BEAM 1 ,BEAM SWEEP SOUTHWARD UP TO 3" X 25' LONG . (POI)8' OUT FROM INT. BENT 1 WITH A LENGTH OF 10' . 1 INDENTION 1/8" DEEP X 3" LONG AT 10' OUT FROM INT. BENT 1. WITH 2 OTHER INDENTIONS AT 16'-7" OUT FROM INT. BENT 1 , 22" LONG 1/4" WIDE X 1/16" DEEP AND 1/2" LONG X 1/4" DEEP . BOTTOM FLANGE OF BEAM BOWED UPWARD 1/2" . ANCHOR BOLT 1 LEFT SIDE BEAM 1 BENT WESTWARD . SCATTERED SCRAPES BEAM 1 BOTTOM FLANGE . (PAR)



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 2 BEAM 1 ,BEAM SWEEP SOUTHWARD UP TO 3" X 25' LONG . (POI)8' OUT FROM INT. BENT 1 WITH A LENGTH OF 10' . 1 INDENTION 1/8" DEEP X 3" LONG AT 10' OUT FROM INT. BENT 1. WITH 2 OTHER INDENTIONS AT 16'-7" OUT FROM INT. BENT 1 , 22" LONG 1/4" WIDE X 1/16" DEEP AND 1/2" LONG X 1/4" DEEP . BOTTOM FLANGE OF BEAM BOWED UPWARD 1/2" . ANCHOR BOLT 1 LEFT SIDE BEAM 1 BENT WESTWARD . SCATTERED SCRAPES BEAM 1 BOTTOM FLANGE . (PAR)



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 2 BEAM 1 ,BEAM SWEEP SOUTHWARD UP TO 3" X 25' LONG . (POI)8' OUT FROM INT. BENT 1 WITH A LENGTH OF 10' . 1 INDENTION 1/8" DEEP X 3" LONG AT 10' OUT FROM INT. BENT 1. WITH 2 OTHER INDENTIONS AT 16'-7" OUT FROM INT. BENT 1 , 22" LONG 1/4" WIDE X 1/16" DEEP AND 1/2" LONG X 1/4" DEEP . BOTTOM FLANGE OF BEAM BOWED UPWARD 1/2" . ANCHOR BOLT 1 LEFT SIDE BEAM 1 BENT WESTWARD . SCATTERED SCRAPES BEAM 1 BOTTOM FLANGE . (PAR)



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 2 BEAM 1 ,BEAM SWEEP SOUTHWARD UP TO 3" X 25' LONG . (POI)8' OUT FROM INT. BENT 1 WITH A LENGTH OF 10' . 1 INDENTION 1/8" DEEP X 3" LONG AT 10' OUT FROM INT. BENT 1. WITH 2 OTHER INDENTIONS AT 16'-7" OUT FROM INT. BENT 1 , 22" LONG 1/4" WIDE X 1/16" DEEP AND 1/2" LONG X 1/4" DEEP . BOTTOM FLANGE OF BEAM BOWED UPWARD 1/2" . ANCHOR BOLT 1 LEFT SIDE BEAM 1 BENT WESTWARD . SCATTERED SCRAPES BEAM 1 BOTTOM FLANGE . (PAR)



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 2 BEAM 1 ,BEAM SWEEP SOUTHWARD UP TO 3" X 25' LONG . (POI)8' OUT FROM INT. BENT 1 WITH A LENGTH OF 10' . 1 INDENTION 1/8" DEEP X 3" LONG AT 10' OUT FROM INT. BENT 1. WITH 2 OTHER INDENTIONS AT 16'-7" OUT FROM INT. BENT 1 , 22" LONG 1/4" WIDE X 1/16" DEEP AND 1/2" LONG X 1/4" DEEP . BOTTOM FLANGE OF BEAM BOWED UPWARD 1/2" . ANCHOR BOLT 1 LEFT SIDE BEAM 1 BENT WESTWARD . SCATTERED SCRAPES BEAM 1 BOTTOM FLANGE . (PAR)



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 2 BEAM 1 ,BEAM SWEEP SOUTHWARD UP TO 3" X 25' LONG . (POI)8' OUT FROM INT. BENT 1 WITH A LENGTH OF 10' . 1 INDENTION 1/8" DEEP X 3" LONG AT 10' OUT FROM INT. BENT 1. WITH 2 OTHER INDENTIONS AT 16'-7" OUT FROM INT. BENT 1 , 22" LONG 1/4" WIDE X 1/16" DEEP AND 1/2" LONG X 1/4" DEEP . BOTTOM FLANGE OF BEAM BOWED UPWARD 1/2" . ANCHOR BOLT 1 LEFT SIDE BEAM 1 BENT WESTWARD . SCATTERED SCRAPES BEAM 1 BOTTOM FLANGE . (PAR)



Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022: SPAN 2 BEAM 1 ,BEAM SWEEP SOUTHWARD UP TO 3" X 25' LONG . (POI)8' OUT FROM INT. BENT 1 WITH A LENGTH OF 10' . 1 INDENTION 1/8" DEEP X 3" LONG AT 10' OUT FROM INT. BENT 1. WITH 2 OTHER INDENTIONS AT 16'-7" OUT FROM INT. BENT 1 , 22" LONG 1/4" WIDE X 1/16" DEEP AND 1/2" LONG X 1/4" DEEP . BOTTOM FLANGE OF BEAM BOWED UPWARD 1/2" . ANCHOR BOLT 1 LEFT SIDE BEAM 1 BENT WESTWARD . SCATTERED SCRAPES BEAM 1 BOTTOM FLANGE . (PAR)



Span 2 Beam 2: 2022 OLD INDENTIONS BEAM 4



Span 2 LEFT RAIL SCATTERED INDENTIONS BOTTOM



Span 2 Left Bridge Rail: 2022 SUPPLEMENTAL INSPECTION SCATTERED SCRAPES ON BEAM 2



Span 2 Beam 2: 2022 OLD INDENTIONS BEAM 4



Span 2 Beam 1: SCATTERED SCRAPES



SPAN 2 BAY 1 DIAPHRAM 2 ALL 4 BOLTS MISSING AT DIAPHRAM ATTACHMENT TO BEAM 1 (PAR)



SPAN 2 BAY 1 BOTTOM LOWER BASE PLATE WELD BROKEN LOOSE FROM BEAM 1 DIAPHRAM 2 , 3 3/4" LONG X 1/16" DEEP AT 3" UP FROM BOTTOM OF PLATE .(PAR)

Structure Number: 580143

Span: 2

Route Name: NC226 N



CLEARANCE PHOTO

Route Number: 31002260		Route Name: NC226 N			Reference Feature: H
Minimum Vertical Clearance 14.667 feet		Maximum Minimum Vertical Clearance 15.000 feet			
Total Horizontal Clearance 53.000 feet		Lateral Clearances: Left: 2.000 feet Right 2.500 feet			
<input type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number			
Milepost: 0.000	Number of Lanes: 4	ADT: 13000	Year of ADT: 2013	Percentage of Trucks: 6	
<input type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator		
Functional Classification 16 Local Minor Arterial		Direction of Traffic: 2 2 - way traffic			



TOP OF DECK



LOOKING SOUTH



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