

ATTENTION: PROMPT ACTION REQUEST, NEW REPAIR, CHANGE TO STRUCTURE DATA

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 100203	SAP STRUCTURE NO:	0110203	FHWA STRUC	TURE NO: (000000000	210203
DIVISION: 13 COUNTY: BUNCOM	BE INSPEC	CTION DATE: 02/28	3/2023 FRI	EQUENCY:	24 MONT	HS
FACILITY CARRIED: SR2416			MILE POS	Г:		
LOCATION:2 MI.W.JCT.SR2427						
FEATURE INTERSECTED: BEETREE CRI	EEK					
LATITUDE: 35° 36' 45.46"	LONGITUDE:	82° 25' 37.23"				
SUPERSTRUCTURE: REINFORCED CO	NCRETE DECK GIRDER	≀ S				
SUBSTRUCTURE: ABUTS&PIER: REINFO	ORCED CONCRETE					
SPANS: 2 SPANS. SEE SPAN PROFIL	E SHEET FOR SPAN DE	ETAILS				
FRACTURE CRITICAL TEMPO	RARY SHORING	SCOUR CRITICAL	SCOU	R PLAN OF	ACTION	
GRADES: (Inspector/NBI Coding) DECK 5	/5 SUPERSTRUCTU	RE <u>5/5</u> SUB	STRUCTURE 4/	4 CULV	ERT N/N	1
POSTED SV: Not Posted		POSTED TTST: N	ot Posted			
		_				
OTHER SIGNS PRESENT: (4) DELINEAT	ORS (2) NARROW BRID	GE				
			Sign notic			Number Required
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			NONO	WEIGH	IT LIMIT	0
			NONO	DELINE	EATORS	0
		HELL	NO NO	NARROW	/ BRIDGE	0
			NO_	ONE LAN	E BRIDGE	0
	//		NO	LOW CLE	ARANCE	0
			INS	ECTION OF SPECTION RECTION CHES PLANS	W-E	
LOOKING EAST						
INSPECTED BY MATTHEW MOYER	signature	hew Moyer	ASSISTED I	BY DANA SH	TUAH	

10 STRUCTURE TYPE AND MATERIAL Concrete Cash Structure Type Tee Beam CODE Code Condition Condition Condition Code	S all 1 e c c c s d c c c c c c c c c c c c c c c
(6) NIVENTORY ROUTE (ONUNDER) ON 31024160 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13 (3) COUNTY CODE (FEDERAL) 21 (4) PLACE CODE 66280 (6) FEATURE INTERSECTED BEETREE CREEK (7) FACILITY CARRIED SR2416 (9) LOCATION 2 MILWJCT.SR2427 (110) MILEPOINT 0.0 (112) BASE HIGHWAY DETWORK (113) LRS INVENTORY ROUTE & SUBROUTE (16) LAITTUDE 35° 36′ 45.46° (17) LONGITUDE 82° 25′ 37.23° (89) BORDER BRIDGE STRUCTURE NUMBER (43) STRUCTURE TYPE ADD MATERIAL (20) TOPE 800 SUBSTRUCTURE (44) STRUCTURE TYPE APPROACH TYPE APPROACH TYPE (30) TOPE 67 SPANS IN MAIN UNIT (20) SUBSTRUCTURE (45) NUMBER OF SPANS IN MAIN UNIT (26) SUBSTRUCTURE (46) NUMBER OF SPANS IN MAIN UNIT (27) DECK STRUCTURE TYPE (CODE 6) (31) DESIGN LOAD RATING AND POSTING (B) TYPE OF DECK PROTECTION CODE 0 (66) NIVENTORY RATING METHOD LOAD RATING AND POSTING (C) TYPE OF DECK PROTECTION CODE 0 (66) NIVENTORY RATING METHOD LOAD RATING AND POSTING HIGHWAY NOT STRUCTURE (27) YEAR BUILT (100) YEAR RECONSTRUCTURE 2 LANES UNDER STRUCTURE 19 DESCRIPTION (14) STRUCTURE OPEN, POSTED, OR COSTED (28) AVERAGE DAILY TRAFFIC 2010 TRUCK ADT PCT 17 (30) YEAR OF ADT 2021 (109) TRUCK ADT PCT 7 (67) STRUCTURE EVEN PCODE 15 (48) STRUCTURE TYPE APPROACH (100) YEAR RECONSTRUCTURE 2 LANES UNDER STRUCTURE 19 DESCRIPTION (14) STRUCTURE 19 DESCRIPTION (15) INVENTORY RATING METHOD (15)	CODE CODE CODE CODE
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(109) FIGHWAY SYSTEM INVERIGENCY NOW A STRAINER NOW (109) COATION 2 MILW. JCT. SR2427 (26) FUNCTIONAL CLASS Urban Local (27) FACILITY CARRIED SR2416 (7) FACILITY CARRIED SR24	CODE
(9) LOCATION 3.2 MILW.JCT.SR2427	c c c c c c c c c c c c c c c c c c c
11 MILEPOINT	CODE
172 BASE HIGHWAY NETWORK 1/3 LAS INVENTORY ROUTE & SUBROUTE 1/2 LAS INVENTORY RATING METHOD 1/2 LAS INVENTORY RATING METHO	c s d C C C C C C C C C C C C C C C C C C
13] LRS INVENTORY ROUTE & SUBROUTE 0 (102) DIRECTION OF TRAFFIC 2-way	CODE
16 LATITUDE 35° 36′ 45.46′ (17) LONGITUDE 82° 25′ 37.23′ (103) TEMPORARY STRUCTURE (110) DESIGNATED NATIONAL NETWORK - on national network for truck: (20) TOLL (20	CODE
38) BORDER BRIDGE STATE CODE PERCENT SHARED (110) DESIGNATED NATIONAL NETWORK - on national network for truck: (29) BORDER BRIDGE STRUCTURE NUMBER (21) MAINT - (22) OWNER - (22) OWNER - (22) OWNER - (22) OWNER - (23) STRUCTURE TYPE MAIN (20) TOLL (21) MAINT - (22) OWNER - (22) OWNER - (22) OWNER - (23) STRUCTURE TYPE APPROACH (26) DECK (27) MAINT - (28) SUPERSTRUCTURE (28) SUPERSTRUCTURE (29) SUPERSTRUCTURE (24) STRUCTURE (25) SUPERSTRUCTURE (26) SUPERSTRUCTURE (26	CODE
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(19) BYPASS OR DETOUR LENGTH 5.0 (68) DECK GEOMETRY	I
GEOMETRIC DATA (69) UNDERCLEARANCES, VERT & HORIZ	1
(48) LENGTH OF MAXIMUM SPAN 41.0 (71) WATERWAY ADEQUACY	
(49) STRUCTURE LENGTH 85.0 (72) APPROACH ROADWAY ALIGNMENT	
(50) CURB OR SIDEWALK: LEFT 0.4 RIGHT 0.4 (64) PRIDGE ROADWAY WIDTH CURB TO CURB. (36) TRAFFIC SAFETY FEATURES	000
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB 19.9 (52) DECK WIDTH OUT TO OUT 23.0 (113) SCOUR CRITICAL BRIDGES	
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) 19.0 PROPOSED IMPROVEMENTS	
(co) prince MEDIAN	DDE
(34) SKEW 0 (35) STRUCTURE FLARED 0 (76) LENGTH OF STRUCTURE IMPROVEMENT	
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 (94) BRIDGE IMPROVEMENT COST	
(47) INVENTOR'T ROUTE TOTAL HORIZ CLEAR 19.9	
(F) MANUFERT INDEPOLEAD DEFENDE	
(55) MIN LAT UNDERCI FARANCE RT. REFERENCE N 0.0	
(97) YEAR OF IMPROVEMENT COST ESTIMATE (56) MIN LAT UNDERCLEARANCE LT: 0.0	
(114) FUTURE ADT 6,600 YEAR OF FUTURE ADT	204
NAVIGATION DATA INSPECTION INSPECTION (38) NAVIGATION CONTROL - CODE 0 (90) INSPECTION DATE 02/23 (91) FREQUENCY	Y 24
(111) PIER PROTECTION CODE (92) CRITICAL FEATURE INSPECTION (93) CFI D	
	· · · -
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0 B) UNDERWATER INSP 24 B)	04/0
(40) NAVIGATION HORIZONTAL CLEARANCE 0.0 C) OTHER SPECIAL INSP C) SCOUR	04/2

Superstructure Build Details

Span Number 1

Span Length 42.333

Skew 90.000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	844	Square Feet		
1	Narrow Bridge	Warning Signs	1	Each		
2	Concrete Railing	Reinforced Concrete Bridge Railing	86	Feet		
2	Delineator	Warning Signs	2	Each		
3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	126	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	974	Square Feet		
2	Fixed Bearing	Fixed Bearing	2	Each	Unknown	2

Span Number 2

Span Length 42.333

Skew 90.000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Narrow Bridge	Warning Signs	1	Each		
2	Fixed Bearing	Fixed Bearing	2	Each	Unknown	2
3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	126	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	974	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	86	Feet		
2	Delineator	Warning Signs	2	Each		
1	Asphalt Wearing Surface	Wearing Surface	844	Square Feet		

Structure Element Scoring

Structure Number: 100203 Inspection Date 2/28/2023

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	1,948	1,882	50	16	0
110		Reinforced Concrete Open Girder/Beam	Beam	252	62	181	9	0
210		Reinforced Concrete Pier Wall	Piles and Columns	20	19	1	0	0
215		Reinforced Concrete Abutment	Abutments	120	50	48	22	0
234		Reinforced Concrete Pier Cap	Caps	21	16	2	3	0
313		Fixed Bearing	Bearing Device	4	0	4	0	0
331		Reinforced Concrete Bridge Railing	Bridge Rail	172	2	120	50	0
510		Wearing Surface	Wearing Surfaces	1,688	1,430	0	258	0
515	313	Steel Protective Coating	Bearing Device	4	0	0	0	4

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 100203 Inspection Date: 02/28/2023

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Efflorescence/Rust Staining	1 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	25 Square Feet
3306	Reinforced Concrete Open Girder/Beam	Patched Area	2 Feet
3306	Reinforced Concrete Open Girder/Beam	Cracking (RC and Other)	51 Feet
3306	Reinforced Concrete Open Girder/Beam	Delamination/Spall	18 Feet
3348	Reinforced Concrete Pier Wall	Delamination/Spall	2 Feet
3348	Reinforced Concrete Pier Wall	Cracking (RC and Other)	4 Feet
3350	Reinforced Concrete Abutment	Scour	54 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	32 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	2 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	1 Feet
3318	Reinforced Concrete Bridge Railing	Patched Area	1 Square Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	40 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	129 Feet
2816	Wearing Surface	Crack (Wearing Surface)	258 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	4 Square Feet

Element Structure Maintenance Quantities

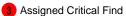
Structure Number: 100203 Inspection Date 02/28/2023

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	71	252	0.000	9.000	181.000	62.000
Bearing Device	3334	Bridge Bearing	0	4	0.000	0.000	4.000	0.000
Bearing Device	3342	Clean and Paint Steel	4	4	4.000	0.000	0.000	0.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	170	172	0.000	50.000	120.000	2.000
Deck	3326	Maintenance of Concrete Deck	26	1948	0.000	16.000	50.000	1882.000
Wearing Surfaces	2816	Asphalt Surface Repair	258	1688	0.000	258.000	0.000	1430.000
Abutments	3350	Maintenance of Concrete Wings and Wall	76	120	0.000	22.000	48.000	50.000
Caps	3348	Maintenance of Concrete Substructure	3	21	0.000	3.000	2.000	16.000
Piles and Columns	3348	Maintenance of Concrete Substructure	6	20	0.000	0.000	1.000	19.000

Priority Actions Request

Structure Number 100203 Span2 3306 Beam 3 Reinforced Concrete Girder Priority Level Defect Type Quantity **Defect Description** 2 Delamination/Spall Span 2 Beam 3: (PROMPT ACTION REQUEST) 23 FEET FROM BENT 1, BOTTOM RIGHT CORNER OF BEAM, SPALL WITH EXPOSED MAIN

REINFORCING 3 FEET LONG BY 9 INCHES WIDE BY 2 INCHES DEEP



Element Condition and Maintenance Data

Structure Number: 100203 Inspection Date: 02/28/2023

structure iv	100203					1118	speciion D	ale. <u>02/26/2023</u>
Span	າ 1	Deck						
Rein	forced Concrete	Deck						
Elem Num 12	ber	Element Name ced Concrete Deck	Total Qty 974	CS1 Qty 962	CS2 Qty 10	CS3 Qty 2	CS4 Qty 0 S	quare Feet
Element Number	Dofoct Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
7 12	Delamination/Spall	SPALL (10 INCHES X 6 INCHES X EXPOSED REBAR WITH SECTION RIGHT DECK OVERHANG 2 FEE	N LOSS AT FAR		3	1	1	Square Feet
	Efflorescence/Rust Staining	12 INCHES OF EFFLORESCENC BOTTOM OF DECK, MIDSPAN B			3	1	1	Square Feet
7 12	Delamination/Spall	INTERMITTENT SPALLING (UP T INCHES X 1/2 INCH) IN BOTTOM VARIOUS DECK DRAINS, RIGHT OVERHANGS	OF DECK AT		2	10	10	Square Feet

General Comments

Spa	n 1	Beam 1						
Reir	nforced Concrete	Girder						
	ment nber Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 42	CS1 Qty 18	CS2 Qty 24	CS3 Qty 0	CS4 Qty 0 Feet	
Elemen	D = (= = (T	Defect Description	n		CS	CS Qty	Maint Qty	
✓ 110	Cracking (RC and Other)	1 FEET DIAMETER AREA OF HAIRLIN INCH MAP CRACKING IN UNDERSIDE NEAR MIDSPAN			2	1	Feet	
/ 110	Cracking (RC and Other)	1/32 INCH X 1.5 FEET HIGH VERTICAL NORTH FACE AT PIER 1.	L CRACK ON		2	1	Feet	
/ 110	Cracking (RC and Other)	TRANSVERSE AND HORIZONTAL CR. TO 1/64 INCH) IN BOTTOM OF BEAM UP SIDES (6 INCHES TO FULL HEIGH INCHES TO 16 INCHES ON CENTER	EXTENDING		2	19	Feet	
7 110	Cracking (RC and Other)	UP TO 1/32 INCH X 2 FEET LONG LON CRACK IN UNDERSIDE OF BEAM 15 F PIER 1			2	2	Feet	
7 110	Delamination/Spall	SHALLOW SPALL WITH EXPOSED TIE INCHES X 2 INCHES X 1/4 INCH) IN BO BEAM, 18 FEET FROM END BENT 1			2	1	1 Feet	
7 110	Cracking (RC and Other)	(2) HORIZONTAL HAIRLINE CRACKIN BOTTOM OF BEAM. 1 FEET NEAR MI 2 FEET AT FAR END			1	3	Feet	
7 110	Cracking (RC and Other) General Comments	8 INCH HORIZONTAL HAIRLINE CRAC LEFT SIDE OF BEAM 5 FEET FROM B			1	1	Feet	

Spa	an 1		Beam 2							
Reir	nforce	d Concrete	Girder							
	ment mber	Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 42	CS1 Qty 10	CS2 Qty 32	CS3 Qty 0	CS4 Qty 0	Feet	
Elemen Numbe		Defect Type	Defect Descript	ion		cs	CS Qty	Maint Qty		
√ 110	Crackii Other)	ng (RC and	TRANSVERSE AND HORIZONTAL C TO 1/64 INCH) IN BOTTOM OF BEAI UP SIDES (6 INCHES TO FULL HEIC INCHES TO 16 INCHES ON CENTER	M EXTENDING GHT). 12		2	32		Feet	

General Comments

Spa	an 1	Beam 3						
Rei	nforced Concrete	Girder						
	ment mber Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 42	CS1 Qty 0	CS2 Qty 42	CS3 Qty 0	CS4 Qty 0 Fee	t
Elemer Numbe	Dofoct Typo	Defect Description	n		CS	CS Qty	Maint Qty	
√ 110	Cracking (RC and Other)	TRANSVERSE AND HORIZONTAL CR TO 1/64 INCH) IN BOTTOM OF BEAM UP SIDES (6 INCHES TO FULL HEIGH INCHES TO 12 INCHES ON CENTER	EXTENDING		2	41	F	eet
✓ 110	Delamination/Spall	BOTTOM OF BEAM AT PIER 1, DELAM INCHES LONG BY 6 INCHES WIDE	MINATION 18		2	1	1 F	eet
	General Comments							

Spa	an 1	Wearing Surface						
Ası	phalt Wearing Surf	face						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	g Surface	844	646	0	198	0 S	quare Feet
Eleme Numb	Dofoot Typo	Defect Description			CS	CS Qty	Maint Qty	
√ 510	Crack (Wearing Surface)	5 SQUARE FEET OF MAP CRACKING (UP TO 1/4 INCH) IN ASPHALT WEARING SURFACE AT NEAR LEFT SIDE. 3 SQUARE FEET OF MAP CRACKING (UP TO 1/4 INCH) IN ASPHALT WEARING SURFACE AT NEAR RIGHT SIDE.			3	8	8	Square Feet
√ 510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE OPEN CRA TO 1 INCH) AT BENT 1.	ACKING (UP		3	20	20	Square Feet
√ 510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE OPEN CRA TO 1/2 INCH) AT END BENT 1.	CKING (UP		3	20	20	Square Feet
√ 510	Crack (Wearing Surface)	INTERMITTENT TRANSVERSE OPEN C (UP TO 1/4 INCH) AND SOME LONGITU CRACKING THROUGHOUT ASPHALT W SURFACE.	IDINAL		3	150	150	Square Feet
	General Comments							

Spa	ın 1	Left Bridge R	ail									
Concrete Railing												
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty					
331	Reinfo	orced Concrete Bridge Railing	43	1	42	0	0 Feet					
Elemen Numbe	Dofoct Typo	Defect Descrip	tion		CS	CS Qty	Maint Qty					
√ 331	Delamination/Spall	WEATHERING WITH EXPOSED AG LENGTH IN TOP OF RAIL.	GREGATE FULL		2	42	42 Feet	_				

Spa	an 1	Right Bridge R	ail										
Cor	Concrete Railing												
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty						
331	Reinforc	ed Concrete Bridge Railing	43	0	41	2	0 F	eet					
Elemer Numbe	Dofoct Typo	Defect Description	on		CS	CS Qty	Maint Qty						
✓ 331	Delamination/Spall	10 INCHES LONG X 6 INCHES HIGH I DEEP SPALL IN TOP OF RAIL AT ABI			3	1	1	Feet					
√ 331	Patched Area	AT WEST END, 3 SQUARE FEET OF PATH WITH EFFLORESCENCE	UNSOUND		3	1	1	Square Feet					
✓ 331	Delamination/Spall	WEATHERING WITH EXPOSED AGG LENGTH IN TOP OF RAIL.	REGATE FULL		2	41	41	Feet					
	General Comments												

Spa	Span 1		Far Bearing 1							
Fixe	ed Bearing	9								
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	earing		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	Dofo	t Type		Defect Description			CS	CS Qty	Maint Qty	
√ 313	Corrosion		SURFACE CORRO	OSION			2	1		Each
√ 515	Effectivene Protective (`	PROTECTIVE CO	ATING HAS FAILED.			4	1		1 Square Feet
	General Cor	mments								

Spa Fixe	n 1 ed Bearing	Far Bea	aring 3						
	ment nber Fixed B	Element Name earing		Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	
515	Steel Pr	otective Coating		1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect	Description			CS	CS Qty	Maint Qty	
√ 313	Corrosion	SURFACE CORROSION				2	1		Each
√ 515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HA	AS FAILED.			4	1		1 Square Feet

Structure Number: 100203

Spa	an 2	Deck						
Rei	nforced Concrete	Deck						
	ment mber Reinforc	Element Name ed Concrete Deck	Total Qty 974	CS1 Qty 920	CS2 Qty 40	CS3 Qty 14	CS4 Qty 0 S	quare Feet
Elemer Numbe	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
√ 12	Delamination/Spall	INTERMITTENT SPALLING (UP TO 4 INC INCHES X 1/2 INCH) IN BOTTOM OF DEC VARIOUS DECK DRAINS WITH EFFLORE BUILDUP, RIGHT AND LEFT OVERHANG	CK AT ESCENCE		3	11	11	Square Feet
1 2	Delamination/Spall	RIGHT OVERHANG AT BENT 1, SPALL WEXPOSED REBAR 8 INCH DIAMETER BY DEEP			3	1	1	Square Feet
1 2	Delamination/Spall	SPALL (10 INCHES X 6 INCHES X 3/4 INC EFFLORESCENCE AT LEFT DECK OVER FEET FROM END BENT 2			3	1	1	Square Feet
1 2	Delamination/Spall	SPALL (10 INCHES X 8 INCHES X 3 INCH LEFT DECK OVERHANG, 10 FEET FROM BENT 2	,		3	1	1	Square Feet
1 2	Efflorescence/Rust Staining General Comments	SPOTS OF MINOR EFFLORESCENCE THROUGHOUT BOTTOM OF DECK			2	40		Square Feet

Spa	an 2	Beam 1						
Rei	inforced Concrete	Girder						
	ement mber Reinford	Element Name Reinforced Concrete Open Girder/Beam		CS1 Qty 4	CS2 Qty 34	CS3 Qty 4	CS4 Qty 0 Feet	
Eleme Numb	nt Defect Type	Defect Description			CS	CS Qty	Maint Qty	
✓ 110	Cracking (RC and Other)	3 FEET LONGITUDINAL 1/16 INCH CRACKING TO BOTTOM, 16 FEET FROM BENT 1				3	3 Feet	
1 10	Delamination/Spall	21 FEET FROM BENT 1, BOTTOM OF I INCH DIAMETER BY 1/2 INCH DEEP S	,		3	1	1 Feet	
√ 110	Cracking (RC and Other)	TRANSVERSE AND HORIZONTAL CRACKING (UP TO 1/64 INCH) IN BOTTOM OF BEAM EXTENDING UP SIDES (6 INCHES TO FULL HEIGHT). 6 INCHES TO 12 INCHES ON CENTER			2	25	Feet	
√ 110	Delamination/Spall	3 SQUARE FEET WATER SCALING WI EXPOSED AGGREGATE TO LEFT SID END.			2	2	2 Feet	
1 10	Delamination/Spall	9 FEET FROM END BENT 2, ON BOTTO SOUTH FACE OF BEAM, DELAMINATION INCHES LONG BY 18 INCHES WIDE O AND 10 INCHES HIGH ON SOUTH FAC	ON 56 N BOTTOM		2	4	Feet	
✓ 110	Patched Area	8 INCH DIAMETER SOUND PATCH NE MIDSPAN	AR		2	2	Feet	
✓ 110	Patched Area	SOUND PATCH AT MIDSPAN, BOTTOM BEAM 12 INCHES BY 6 INCHES	M LEFT OF		2	1	Feet	
	General Comments							_

Spa	ın 2		Beam 2						
Reir	nforced	d Concrete	Girder						
	ment nber	Reinfor	Element Name ced Concrete Open Girder/Beam	Total Qty 42	CS1 Qty 22	CS2 Qty 20	CS3 Qty 0	CS4 Qty 0 Fe	eet
Elemen Numbe	_ D	efect Type	Defect Descript	tion		CS	CS Qty	Maint Qty	
√ 110	Crackin Other)	g (RC and	TRANSVERSE AND HORIZONTAL (TO 1/64 INCH) IN BOTTOM OF BEA UP SIDES (6 INCHES TO FULL HEIG INCHES TO 36 INCHES ON CENTE	M EXTENDING GHT). 12		2	20	20	Feet

General Comments

Span 2 Beam 3								
Rei	nforced Concrete	Girder						
	ement mber Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 42	CS1 Qty 8	CS2 Qty 29	CS3 Qty 5	CS4 Qty 0 Feet	
Elemei Numbe	D-ft T	Defect Descript	ion		CS	CS Qty	Maint Qty	
✓ 110	Delamination/Spall	(PROMPT ACTION REQUEST) 23 FE BENT 1, BOTTOM RIGHT CORNER OF SPALL WITH EXPOSED MAIN REINIFEET LONG BY 9 INCHES WIDE BY DEEP	OF BEAM, FORCING 3		3	3	3 Feet	
✓ 110	Patched Area	17 FEET FROM BENT 1, UNSOUND BOTTOM OF BEAM, 2 FEET LONG E WIDE			3	2	2 Feet	
1 10	Cracking (RC and Other)	TRANSVERSE AND HORIZONTAL C TO 1/64 INCH) IN BOTTOM OF BEAN UP SIDES (6 INCHES TO FULL HEIG INCHES TO 24 INCHES ON CENTER	M EXTENDING GHT). 12		2	16	28 Feet	
1 10	Delamination/Spall	18 FEET FROM BENT 1, DELAMINA RIGHT FACE OF BEAM 18 INCHES I INCHES HIGH			2	2	2 Feet	
✓ 110	Delamination/Spall	2.5 FEET OF DELAMINATION IN BO CORNER OF BEAM, 12 FEET FROM			2	3	3 Feet	
√ 110	Delamination/Spall	SEVERAL SMALL SPALLS UP TO 2 DIAMETER X 1/2 INCH DEEP WITH WIRE ON UNDERSIDE OF BEAM AT LOCATIONS.	INCH EXPOSED TIE		2	5	5 Feet	
√ 110	Patched Area	14 FEET FROM BENT 1, SOUND PA BOTTOM RIGHT CORNER OF BEAM LONG BY 12 INCHES HIGH			2	3	Feet	
√ 110	Cracking (RC and Other)	LONGITUDINAL HAIRLINE CRACKIN OF BEAM. 2 FEET AT 8 FEET FROM FEET NEAR FAR END OF BEAM			1	8	Feet	
	General Comments							

							•	
Span	1 2	Wearing Surface)					
Asph	nalt Wearing Surf	ace						
Elem Numb	÷	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	Surface	844	784	0	60	0 S	quare Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
T	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE OPEN CRATO 1/2 INCH) AT END BENT 2.	ACKING (UP		3	20	20	Square Feet
V	Crack (Wearing Surface)	INTERMITTENT TRANSVERSE, LONGI AND MAP CRACKING (UP TO 1/2 INCH THROUGHOUT ASPHALT WEARING S	l)		3	40	40	Square Feet
G	General Comments							

Spa	an 2	Left Bridge Rail							
Co	ncrete Railing								
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
331	Reinfor	ced Concrete Bridge Railing	43	1	1	41	0 F	eet	
Eleme Numb	Dofoct Typo	Defect Description	ı		CS	CS Qty	Maint Qty		
√ 331	Cracking (RC and Other)	LONGITUDINAL CRACKING TO FULL L TOP OF RAIL	ENGTH OF		3	40	40	Feet	
✓ 331	Delamination/Spall	SPALL WITH EXPOSED REBAR (2 FEE INCHES X 1/2 INCH) 10 FEET FROM B			3	1	1	Feet	
√ 331	Delamination/Spall	6 INCHES HIGH X 1/2 INCH WIDE SPA FRONT FACE 5 FEET FROM PIER 1 AN FROM DECK.			2	1	1	Feet	
√ 331	Delamination/Spall	WEATHERING WITH EXPOSED AGGR LENGTH TO TOP OF RAIL.	EGATE FULL		2			Feet	_
	General Comments								

Spa	an 2	Right Bridge Ra	ail					
Cor	ncrete Railing							
Nu	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	43	0	36	7	0 F	eet
Elemei Numbe	Dofoct Typo	Defect Description	n		CS	CS Qty	Maint Qty	
√ 331	Delamination/Spall	(6) SPALLING WITH EXPOSED REBARTHROUGHOUT INSIDE SIDE OF PARA 10 INCHES X 6 INCHES X 3/4 INCH)			3	6	6	Feet
√ 331	Delamination/Spall	AT END OF RAIL, (2) SPALLS UP TO 7 DIAMETER BY 1/2 INCH DEEP	7 INCH		3	1	1	Feet
√ 331	Delamination/Spall	A FEW AREAS OF DELAMINATION UP DIAMETER ON FRONT FACE MID HEI VARIOUS LOCATIONS.			2	3	3	Feet
√ 331	Delamination/Spall	WEATHERING WITH EXPOSED AGGF LENGTH TO TOP OF RAIL.	REGATE FULL		2	33	33	Feet
	General Comments							

Spa	Span 2			Near Bearing 1						
Fixe	ed Bearing									
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	aring		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	Dofoct	Туре		Defect Description			CS	CS Qty	Maint Qty	
✓ 313	Corrosion		SURFACE CORRO	SION			2	1		Each
√ 515	Effectiveness Protective Co		PROTECTIVE COA	ATING HAS FAILED.			4	1		1 Square Feet
	General Com	ments								

Spa	Span 2		Near Bearing 3						
Fixed Bearing									
	ment mber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fix	ked Bearing		1	0	1	0	0	Each
515	Sto	eel Protective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	Dofoct Tyr	oe	Defect Description			CS	CS Qty	Maint Qty	
✓ 313	Corrosion	SURFACE CORROS	SION			2	1		Each
√ 515	Effectiveness (S Protective Coatin		TING HAS FAILED.			4	1		1 Square Feet
	General Comme	nts							

End	d Bent 1	Abut	tment							
Rei	nforced Concrete	Abutment								
	ment mber Reinford	Element Name ed Concrete Abutment	ד	otal Qty 60	CS1 Qty 48	CS2 Qty 12	CS3 Qty 0	CS4 Qty 0	Feet	
Elemei Numbe	Dofoot Typo	Defe	ect Description			CS	CS Qty	Maint Qty		
√ 215	Cracking (RC and Other)	VERTICAL HAIRLINE AN FACE OF ABUTMENT. F LEFT OF BEAM 1				2	5		Feet	
√ 215	Delamination/Spall	SHALLOW SPALLS THROABUTMENT, MOSLTY IN		R OF		2	7	-	7 Feet	_
	General Comments									

Bent	1	Cap 1						
Rein	forced Concrete	Pier Cap						
Elem Num	ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinford	ced Concrete Pier Cap	21	16	2	3	0 Feet	
Element Number	Dofoot Typo	Defect Des	scription		CS	CS Qty	Maint Qty	
✓ 234	Cracking (RC and Other)	SPALL (6 INCHES X 6 INCHES NEAR TOP CORNER OF CAP,	,		3	1	1 Feet	

Structure	Number: <u>100203</u>			Inspe	ction D	ate: <u>02/28/2023</u>
✓ 234	Delamination/Spall	SPALL (8 INCHES X 6 INCHES X 1 INCH) IN NEAR TOP CORNER OF CAP, RIGHT OF BEAM 2	3	1	1	Feet
✓ 234	Delamination/Spall	SPALL (8 INCHES X 6 INCHES X 3 INCHES) IN NEAR TOP CORNER OF CAP, LEFT OF BEAM 2	3	1	1	Feet
✓ 234	Cracking (RC and Other)	MAP AND VERTICAL HAIRLINE CRACKING TO RIGHT END OF CAP	2	2		Feet
	General Comments					

t 1	Pile 1						
nforced Concrete	Pier Wall						
ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Pier Wall	20	19	1	0	0 Feet	
nt Pr Defect Type	Defect Descri	otion		CS	CS Qty	Maint Qty	
Abrasion/Wear (PSC/RC)	HEAVY SCALING WITH EXPOSED BOTTOM UPSTREAM END	AGGREGATE IN		2		Feet	
Cracking (RC and Other)				2		Feet	
Cracking (RC and Other)	MAP AND VERTICAL CRACKING TO PIER WALL	O RIGHT SIDE		2		4 Feet	
Delamination/Spall				2	1	2 Feet	
	nforced Concrete ment nber Reinford t Defect Type Abrasion/Wear (PSC/RC) Cracking (RC and Other) Cracking (RC and Other)	nent nber Element Name Reinforced Concrete Pier Wall t Defect Type Defect Descript Abrasion/Wear (PSC/RC) BOTTOM UPSTREAM END Cracking (RC and Other) CRACKING TO FACE PIERWALL. SIDE AND (1) IN FAR SIDE Cracking (RC and Other) MAP AND VERTICAL CRACKING TO FPIER WALL Delamination/Spall (2) SHALLOW SPALLS (2 INCHES WITH EXPOSED TIE WIRE TO NEW	nent Element Name Qty Reinforced Concrete Pier Wall Total Option Pier Wall 20 Total	nent Element Name Qty Qty Reinforced Concrete Pier Wall Total CS1 Qty Qty Reinforced Concrete Pier Wall 20 19 Total CS1 Qty Qty Reinforced Concrete Pier Wall 20 19 Total CS1 Qty Qty Reinforced Concrete Pier Wall 20 19 Total CS1 Qty Qty Reinforced Concrete Pier Wall 20 19 Total CS1 Qty Qty Reinforced Concrete Pier Wall 20 19 Total CS1 Reinforced	nent Element Name Qty Qty Qty Qty Reinforced Concrete Pier Wall Total CS1 CS2 Qty Qty Qty Qty Qty Qty Preinforced Concrete Pier Wall 20 19 1 Total CS1 CS2 Qty	ment Element Name Qty	ment Element Name Qty

End	Bent 2	Abutment						
Reir	nforced Concrete	Abutment						
	ment nber Reinford	Element Name ced Concrete Abutment	Total Qty 60	CS1 Qty 2	CS2 Qty 36	CS3 Qty 22	CS4 Qty 0 Fe	eet
Elemen Numbe	Dofoot Tuno	Defect Description	ı		CS	CS Qty	Maint Qty	
215	Scour	(PROMPT ACTION REQUEST) 4-26-202 UNDERWATER: ABUTMENT 100 PERC UNDERMINED ALONG BREASTWALL. INCHESVERTICAL X 7.5 FEET HORIZO PROBE. FOOTING HAS UP TO A 3/8 IN BELOW BEAM 3 AREA.	CENT UP TO 38 ONTAL		4		24	Feet
215	Scour	(PROMPT ACTION REQUEST) 4-26-202 UNDERWATER: NORTHEAST WING IS PERCENT UNDERMINED 38 INCHES V 67 INCHES HORIZONTAL PROBE.	90		4		10	Feet
215	Scour	(PROMPT ACTION REQUEST) 4-26-202 UNDERWATER: SOUTHEAST WING UI 90 PERCENT 24 INCHES VERTICAL X HORIZONTAL PROBE.	NDERMINED		4		10	Feet
√ 215	Delamination/Spall	HEAVY SCALING/SPALLING (22 FEET 4 INCHES) IN FOOTING APRON AT DC END			3	22	22	Feet
√ 215	Cracking (RC and Other)	(5) DIAGONAL CRACKS 1/32 INCH WIE FEET LONG UNDER BEAM 3	DE UP TO 10		2	9		Feet
√ 215	Delamination/Spall	(2) SPALLS UP TO 5 INCHES LONG BY HIGH BY 1/2 INCH DEEP UNDER BEAM			2	1	1	Feet
215	Delamination/Spall	HORIZONTAL CRACKING AND DELAM INCHES X 1 INCH) UNDER BEAM 1	IINATIOM (16		2	2	2	Feet

215 Patched Area

NEW REPAIR: 58 FOOT LONG BY 2 FOOT WIDE CONCRETE REPAIR ON STREAM FACE OF FOOTING, PREVIOUSLY: SCOUR FULL LENGTH OF ABUTMENT WITH UP TO 2 FEET DEEP UNDERMINING (MEASURED 8 FEET FROM UPSTREAM TURNBACK) STARTING AT UPSTREAM TURNBACK. SCOUR HEIGHT FROM TOP OF FOOTING TO STREAMBED IS UP TO 8 FEET WITH WATER DEPTH OF 7 FEET. (MEASURED AT DOWN STREAM TURNBACK). EXTENT OF UNDERMING IF ANY COULD NOT BE DETERMINED AT DOWNSTREAM END DUE TO WATER DEPTH. SUPPLEMENTAL UNDERWATER INSPECTION REQUESTED.

2 24 Feet

General Comments

RECOMMEND SUPPLEMENTAL UNDERWATER INSPECTION FOR SCOUR/UNDERMINING AT DOWNSTREAM END AMUTMENT 2 DUE TO WATER DEPTH

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	974
Span 1	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	42
Span 1	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	42
Span 1	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	42
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	43
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	43
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	844
Span 1	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	974
Span 2	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	42
Span 2	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	42
Span 2	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	42
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	43
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	43
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	844
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	21
Bent 1	Pile 1	Reinforced Concrete Pier Wall	Reinforced Concrete Pier Wall	20
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 100203 Inspection Date: 02/28/2023

National Bridge Inventory Items

Item	Grade Scale	Grade	
Item 58: Deck	0 - 9 , N	5	Note:
Item 59: Superstructure	0 - 9 , N	5	Items 58,59,60,62 reflect this
Item 60: Substructure	0 - 9 , N	4	inspection only.
Item 61: Channel and Channel Protection	0 - 9 , N	4	For overall NBI coding grade, see cover sheet.
Item 62: Culvert	0 - 9 , N	N	
Item 71: Waterway Adequacy	0 - 9 , N	7	
Item 72: Approach Roadway Alignment	0 - 9 , N	8	

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	1948	3376
Drainage System	G, F, P, or C	F	168	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	F	16	3350
Field Scour Evaluation		R		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code				

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	5
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N
Portion of Structure in > 3' of water	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 100203 Inspection Date: 02/28/2023

CINUIII	Jej. 100200		1113	specii	on Date. 02/20
Item Details	Deck - Item 58 GRADING MAINTAINED.	Grade 5	Maint Code	Qty.	0
Details	GIVADING IMAINTAINED.				
Item	Superstructure - Item 59	Grade 5	Maint Code	Qty.	0
Details	GRADING MAINTAINED.				
Item	Substructure - Item 60	Grade 4	Maint Code	Qty.	0
Details	GRADING MAINTAINED.				
	LARGE CRACK IN FOOTING AT ABUTMENT 2.				
	THE EXTENT OF THE UNDERMINING REPAIR AT ABI	UTMENT 2 IS UNK	NOWN AND THERE AR	E NO F	REPAIR PLANS.
Item	Channel and Channel Protection - Item 61	Grade 4	Maint Code	Qty.	0
Details	GRADING MAINTAINED.				
	THE STREAM FLOWS INTO ABUTMENT 2.				
	THE EXTENT OF THE PREVIOUS SCOUR REPAIR IS	UNKNOWN AND TI	HERE ARE NO REPAIR	RPLAN	S.
Item	Deck Debris	Grade F	Maint Code 3376	Qty.	1948
Details	DIRT DEBRIS ALONG CURB.				
Item	Drainage System	Grade F	Maint Code 3332	Qty.	168
Details	DRAINAGE BLOCKED BY DEBRIS ALONG CURB.				
Item	Scour	Grade G	Maint Code	Qty.	0
Details	PREVIOUS SCOUR HAS BEEN REPAIRED.				
Item	Wingwalls	Grade F	Maint Code 3350	Qty.	16
Details	CONCRETE WINGWALL AT SOUTHEAST CORNER IS	ROTATED TOWAR	RD THE STREAM.		
Item	General Comments and Misc Items	Grade	Maint Code	Qty.	0
Details	AT EAST APPROACH 1 INCH OF SETTLEMENT AT FI	IL FACE OF ABUTN	MENT 2.		
Item	Portion of structure in > 3' of water (Y or N)	Grade N	Maint Code	Qty.	0

Details PREVIOUS SCOUR AT ABUTMENT 2 HAS BEEN REPAIRED AND IS NO LONGER IN MORE THAN 3 FEET OF WATER.



DIRT AND DEBRIS ALONG CURB



End Bent 2 Abutment: NEW REPAIR: 58 FOOT LONG BY 2 FOOT WIDE CONCRETE REPAIR ON STREAM FACE OF FOOTING, PREVIOUSLY: SCOUR FULL LENGTH OF ABUTMENT WITH UP TO 2 FEET DEEP UNDERMINING (MEASURED 8 FEET FROM UPSTREAM TURNBACK) STARTING AT UPSTREAM TURNBACK. SCOUR HEIGHT FROM TOP OF FOOTING TO STREAMBED IS UP TO 8 FEET WITH WATER DEPTH OF 7 FEET. (MEASURED AT DOWN STREAM TURNBACK). EXTENT OF UNDERMING IF ANY COULD NOT BE DETERMINED AT DOWNSTREAM END DUE TO WATER DEPTH. SUPPLEMENTAL UNDERWATER INSPECTION REQUESTED.



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End Bent 2 Abutment: HEAVY SCALING/SPALLING (22 FEET X 1 FEET X 4 INCHES) IN FOOTING APRON AT DOWNSTREAM END



End Bent 2 Abutment: (5) DIAGONAL CRACKS 1/32 INCH WIDE UP TO 10 FEET LONG UNDER BEAM 3



Span 2 Wearing Surface: INTERMITTENT TRANSVERSE, LONGITUDINAL AND MAP CRACKING (UP TO 1/2 INCH)
THROUGHOUT ASPHALT WEARING SURFACE.



Span 2 Right Bridge Rail: (6) SPALLING WITH EXPOSED REBAR THROUGHOUT INSIDE SIDE OF PARAPET (UP TO 10 INCHES X 6 INCHES X 3/4 INCH)



Span 2 Right Bridge Rail: AT END OF RAIL, (2) SPALLS UP TO 7 INCH DIAMETER BY 1/2 INCH DEEP



Span 2 Left Bridge Rail: LONGITUDINAL CRACKING TO FULL LENGTH OF TOP OF RAIL



Span 1 Wearing Surface: 5 SQUARE FEET OF MAP CRACKING (UP TO 1/4 INCH) IN ASPHALT WEARING SURFACE AT NEAR LEFT SIDE. 3 SQUARE FEET OF MAP CRACKING (UP TO 1/4 INCH) IN ASPHALT WEARING SURFACE AT NEAR RIGHT SIDE.



Span 1 Right Bridge Rail: 10 INCHES LONG X 6 INCHES HIGH X 1 INCH DEEP SPALL IN TOP OF RAIL AT ABUTMENT 1



Span 1 Right Bridge Rail: AT WEST END, 3 SQUARE FEET OF UNSOUND PATH WITH EFFLORESCENCE



Span 1 Deck: 12 INCHES OF EFFLORESCENCE BUILDUP IN BOTTOM OF DECK, MIDSPAN BAY 1



Span 1 Deck: SPALL (10 INCHES X 6 INCHES X 1 INCH) WITH EXPOSED REBAR WITH SECTION LOSS AT FAR RIGHT DECK OVERHANG 2 FEET FROM PIER 1



Span 1 Beam 3: BOTTOM OF BEAM AT PIER 1, DELAMINATION 18 INCHES LONG BY 6 INCHES WIDE



Bent 1 Cap 1: MAP AND VERTICAL HAIRLINE CRACKING TO RIGHT END OF CAP



Span 2 Beam 3: 17 FEET FROM BENT 1, UNSOUND PATCH ON BOTTOM OF BEAM, 2 FEET LONG BY 1 FOOT WIDE



Span 2 Beam 3: 18 FEET FROM BENT 1, DELAMINATION ON RIGHT FACE OF BEAM 18 INCHES LONG BY 18 INCHES HIGH



Span 2 Beam 3: (PROMPT ACTION REQUEST) 23 FEET FROM BENT 1, BOTTOM RIGHT CORNER OF BEAM, SPALL WITH EXPOSED MAIN REINFORCING 3 FEET LONG BY 9 INCHES WIDE BY 2 INCHES DEEP



Span 2 Beam 1: 9 FEET FROM END BENT 2, ON BOTTOM AND SOUTH FACE OF BEAM, DELAMINATION 56 INCHES LONG BY 12 INCHES WIDE ON BOTTOM AND 10 INCHES HIGH ON SOUTH FACE



Span 2 Beam 1: 9 FEET FROM END BENT 2, ON BOTTOM AND SOUTH FACE OF BEAM, DELAMINATION 56 INCHES LONG BY 12 INCHES WIDE ON BOTTOM AND 10 INCHES HIGH ON SOUTH FACE



Span 2 Beam 1: SOUND PATCH AT MIDSPAN, BOTTOM LEFT OF BEAM 12 INCHES BY 6 INCHES



Span 2 Beam 1: 21 FEET FROM BENT 1, BOTTOM OF BEAM, 9 INCH DIAMETER BY 1/2 INCH DEEP SPALL



Span 2 Beam 1: 9 FEET FROM END BENT 2, ON BOTTOM AND SOUTH FACE OF BEAM, DELAMINATION 56 INCHES LONG BY 18 INCHES WIDE ON BOTTOM AND 10 INCHES HIGH ON SOUTH FACE



CONCRETE WINGWALL AT SOUTHEAST CORNER IS ROTATED TOWARD THE STREAM.



Span 2 Beam 1 - Near Bearing 1: SURFACE CORROSION

Stream Bed Soundings

(Profile diagram on following sheet)

County BUNCOMBE Structure Number: 100203 Sounding Date 02/08/2023

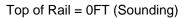
Sounding recorded from: Top of Bridge Rail

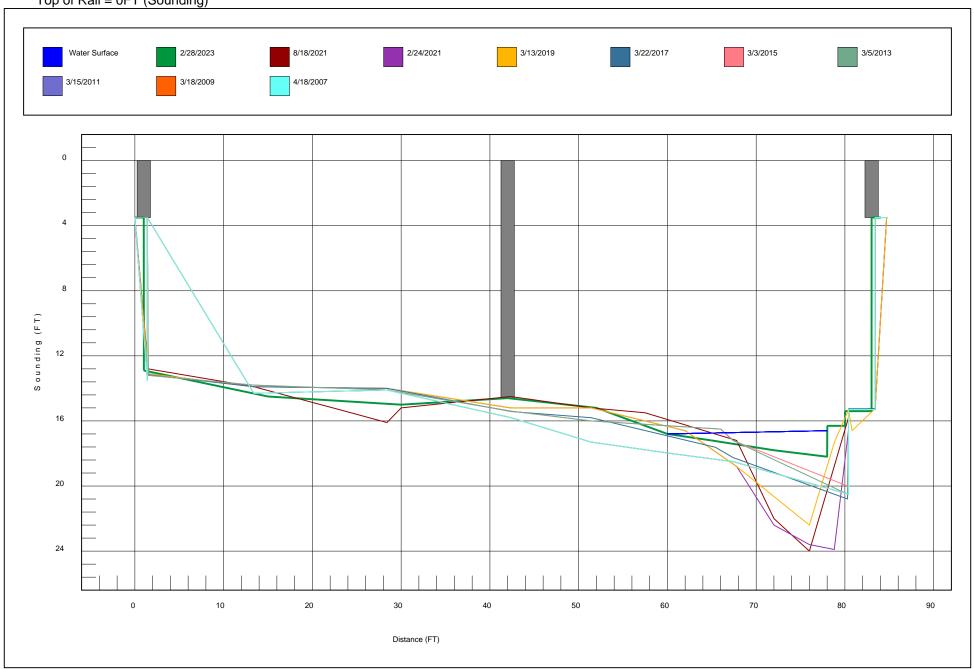
Highwater Mark Distance Location of Highwater Mark NONE NOTED

Distance	Downstream	Upstream	
(Station) ft.	Sounding ft.	Sounding ft.	Description
0.000	3.500	0.000	FILL FACE
1.000	3.500	0.000	TOP OF ABUTMENT
1.010	12.900	13.900	STREAM FACE
15.000	14.500	0.000	GROUND
30.000	15.000	0.000	GROUND
42.000	14.600	16.200	BENT 1
52.000	15.200	0.000	GROUND
60.000	16.800	0.000	WSWE
65.000	17.200	0.000	STREAMBED
72.000	17.800	0.000	STREAMBED
78.000	18.200	16.900	FACE OF FOOTING
78.010	16.600	0.000	WSWE
78.020	16.300	0.000	TOP OF SILL
80.000	16.300	0.000	TOP OF SILL
80.010	15.400	0.000	TOP OF FOOTING
83.000	15.400	0.000	TOP OF FOOTING
83.010	3.500	0.000	TOP OF ABUTMENT
84.000	3.500	0.000	FILL FACE

Bridge: 100203 County: BUNCOMBE Date: 02/28/2023

STREAMBED PROFILE (Downstream)

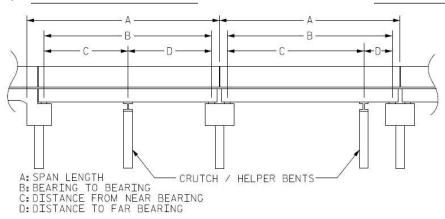




Structure Data Worksheet

Span Profile

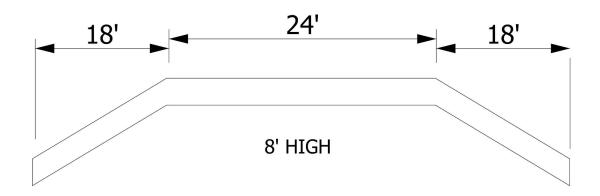
County: BUNCOMBE Structure Number: 100203



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	42.333	41.000			
2	42.333	41.000			

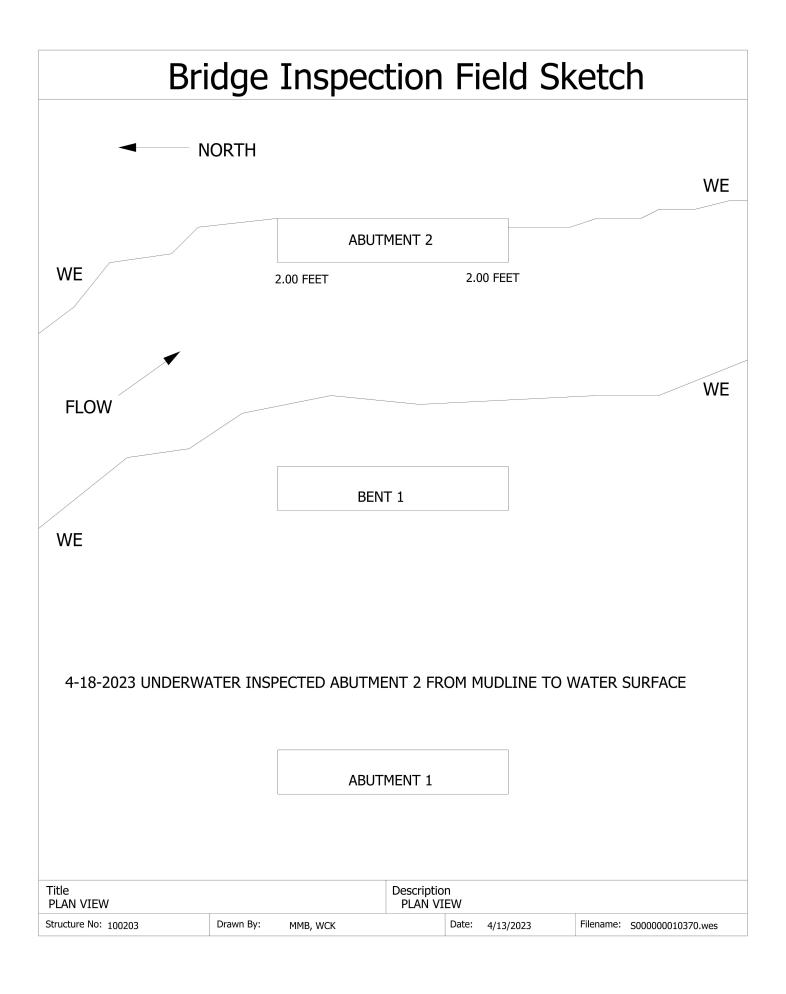


C	aps						,.				
#	Name	Туре	I	ength	Wid	lth	Height	Left Beam to	End of Cap	Right Beam t	o End of Cap
1	Cap 1	Reinfo	orced Concrete Pier Cap	20.5ft	36ir	n	36in	1.75ft		1.75ft	
Pi	es										
#	Name		Туре	Spacir	ng	From	١		Height/Diam	Width	Length
1	Pile 1		Reinforced Concrete Pier Wa	10.25	ft	Left I	End of Ben	t	8ft	19.5ft	2ft



4-18-2023 UNDERWATER INSPECTED ABUTMENT 2 FROM MUDLINE TO WATER SURFACE

ile ENT 1			Description BENT 1					
ucture No: 100203	Drawn By:	MMB, WCK		Date:	4/13/2023	Filename:	S000000010367.wes	



Bridge Inspection Field Sketch

Roadway	18ft Wide	2 Paved Lanes	Looking East		
Left Shoulder	1.5ft Wide	0.5ft Paved	1ft Unpaved		
Right Shoulder	1.5ft Wide	0.5ft Paved	1ft Unpaved		
Left Guardrail					
Right Guardrail					

MEASUREMENTS TAKEN 10 FEET EAST OF ABUTMENT 2

Title APPROACH ROADWAY			Description LOOKING		-		
Structure No: 100203	Drawn By:	MATTHEW MOYER		Date:	2/2/2023	Filename:	S001050000086.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	23.00ft Between Rails				20.75ft	
Clear Roadway	19.917ft	Wearin	g Surface			4.5in
Median Width	Median Height					
Curb Height	3		4in	Right	4in	
Sidewalk Width				Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	11in	Right	11ir	า
Top of Rail to Deck/Wearing Surface		Left	2.958ft	Right	2.958ft	
Bridge Rail Type		Left	Type 30	Right	Тур	e 30

Measurements for Span #	asurements for Span # 1		
Deck Thickness	11in	Left Overhang	3.5ft
Top of Rail to Bottom of Beam (Avg)	7.5ft	Right Overhang	3.5ft

Beam #	Beam Type Reinforced Concrete Girder		Height	Spacing	From
1			39in	3.5ft	Left Edge of Deck
2	Reinforced Concrete Girder	18in	39in	8ft	Beam 1
3	Reinforced Concrete Girder		39in	8ft	Beam 2

Title SUPERSTRUCTURE			Descriptio TYPICAL		ON			
Structure No: 100203	Drawn By:	MATTHEW MOYER		Date:	2/2/2023	Filename:	S001050000087.wes	



WEST APPROACH, LOOKING EAST



LOOKING EAST



NORTH BRIDGE RAIL, SOUTH BRIDGE RAIL SIMILAR



UPSTREAM VIEW FROM BRIDGE DECK, LOOKING NORTH



DOWNSTREAM VIEW FROM BRIDGE DECK, LOOKING SOUTH



EAST APPROACH, LOOKING WEST



UPSTREAM PROFILE, LOOKING SOUTH



ABUTMENT 2 ELEVATION, LOOKING EAST



SUPERSTRUCTURE UNDERSIDE SPAN 2



DOWNSTREAM PROFILE, LOOKING NORTH



ABUTMENT 1, LOOKING WEST



PIER 1, LOOKING EAST



LADDER USED DURING INSPECTION



BEARINGS BEAM 1 AT BENT 1, BEAM 3 AT BENT 1 SIMILAR



NORTH PROFILE, LOOKING SOUTH



SOUTH PROFILE, LOOKING NORTH



NARROW BRIDGE SIGN AT EAST APPROACH



NARROW BRIDGE SIGN AT WEST APPROACH