NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: DATA CHANGES

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 03/03/2021

DIVISION: 3 **COUNTY:** BRUNSWICK **STRUCTURE NUMBER:** 090057 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: NC211 **MILE POST:**

LOCATION: 3.7 MI.S. OF JCT SR1341

FEATURE INTERSECTED: DRIVING CREEK

LATITUDE: 34° 6' 7.37" **LONGITUDE:** 78° 18' 23.59"

SUPERSTRUCTURE:

SUBSTRUCTURE:

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** 6 / 6 **SUPERSTRUCTURE** 6 / 6 **SUBSTRUCTURE** 4 / 4 **CULVERT** N / N

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: NONE

LOOKING NORTH

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS NO PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Brian K Eggerton	Brian Eggerton	F. C. Paul

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

05/27/2021

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **090057**
(8) STRUCTURE NUMBER (FEDERAL) **0190057**
(5) INVENTORY ROUTE (ON/UNDER) ON **131002110**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **3**
(3) COUNTY CODE (FEDERAL) **19** (4) PLACE CODE **00000**
(6) FEATURE INTERSECTED **DRIVING CREEK**
(7) FACILITY CARRIED **NC211**
(9) LOCATION **3.7 MI.S. OF JCT SR1341**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **34° 6' 7.37"** (17) LONGITUDE **78° 18' 23.59"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Wood or Timber**
TYPE **Stringer/Multi-beam or girder** CODE **702**
(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 **6**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1954**
(106) YEAR RECONSTRUCTED **0**
(42) TYPE OF SERVICE ON - **Highway**
OFF - **Waterway** CODE **15**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **0**
(29) AVERAGE DAILY TRAFFIC **4900**
(30) YEAR OF ADT **2019** (109) TRUCK ADT PCT **7**
(19) BYPASS OR DETOUR LENGTH **22.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **17.0**
(49) STRUCTURE LENGTH **53.0**
(50) CURB OR SIDEWALK: LEFT **0.6** RIGHT **0.6**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **23.9**
(52) DECK WIDTH OUT TO OUT **27.4**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **22.0**
(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 **23.9**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **0.0**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **N** **0.0**
(56) MIN LAT UNDERCLEARANCE LT: **0.0**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **0**
(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**

SUFFICIENCY RATING **33.92**
STATUS = **Structurally Deficient**

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Rural Major Collector** **07**
(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**

CONDITION — CODE

(58) DECK **6**
(59) SUPERSTRUCTURE **6**
(60) SUBSTRUCTURE **4**
(61) CHANNEL & CHANNEL PROTECTION **4**
(62) CULVERTS **N**

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD **Unknown** **0**
(63) OPERATING RATING METHOD - **Allowable Stress** **2**
(64) OPERATING RATING - **HS-24** **44**
(65) INVENTORY RATING METHOD - **2**
(66) INVENTORY RATING **HS-17** **30**
(70) BRIDGE POSTING **No Posting Required** **5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **A**
DESCRIPTION **Open, no restriction**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **4**
(68) DECK GEOMETRY **2**
(69) UNDERCLEARANCES, VERT & HORIZ **N**
(71) WATERWAY ADEQUACY **4**
(72) APPROACH ROADWAY ALIGNMENT **2**
(36) TRAFFIC SAFETY FEATURES **0111**
(113) SCOUR CRITICAL BRIDGES **5**

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 **9,800** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **03/21** (91) FREQUENCY **24**
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL A)
B) UNDERWATER INSP **60** B) **04/19**
C) OTHER SPECIAL INSP C)
SCOUR

Superstructure Build Details

Span Number 1 **Span Length** 17.8000 **Skew** 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	413 Square Feet		
18	Timber Joist	Timber Open Girder/Beam	324 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	450 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	36 Feet		

Span Number 2 **Span Length** 17.0000 **Skew** 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	34 Feet		
18	Timber Joist	Timber Open Girder/Beam	306 Feet		
1	Asphalt Wearing Surface	Wearing Surface	394 Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	430 Square Feet		

Span Number 3 **Span Length** 17.6000 **Skew** 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
18	Timber Joist	Timber Open Girder/Beam	324 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	445 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	36 Feet		
1	Asphalt Wearing Surface	Wearing Surface	408 Square Feet		

Structure Element Scoring

Structure Number: **090057**

Inspection Date **3/3/2021**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	1325	1325	0	0	0
111	0	Timber Open Girder/Beam	Beam	954	0	954	0	0
216	0	Timber Abutment	Abutments	64	57	0	7	0
225	0	Steel Pile	Piles and Columns	2	0	2	0	0
515	225	Steel Protective Coating	Piles and Columns	122	40	0	60	22
228	0	Timber Pile	Piles and Columns	17	0	17	0	0
234	0	Reinforced Concrete Pier Cap	Caps	112	36	68	8	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	106	96	7	3	0
510	0	Wearing Surface	Wearing Surfaces	1215	717	0	498	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **090057** Inspection Date: **03/03/2021**

MMS Code	Element Name	Defect Name	Recommended Quantity
3346	Timber Abutment	Decay/Section Loss	3 Feet
3346	Timber Abutment	Scour	6 Feet
3344	Timber Pile	Check/Shake	5 Each
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	20 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	4 Feet
3348	Reinforced Concrete Pier Cap	Damage	41 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	9 Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	1 Feet
2816	Wearing Surface	Crack (Wearing Surface)	498 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	82 Square Feet

Element Structure Maintenance Quantities

Structure Number: **090057** Inspection Date **03/03/2021**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	9	64	0	7	0	57
Beam	3304	Maintenance of Timber of Superstructure Components	0	954	0	0	954	0
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	10	106	0	3	7	96
Caps	3348	Maintenance of Concrete Substructure	45	112	0	8	68	36
Deck	3326	Maintenance of Concrete Deck	0	1325	0	0	0	1325
Piles and Columns	3342	Clean and Paint Steel	82	122	22	60	0	40
Piles and Columns	3344	Maintenance To Timber Substrcutre	5	17	0	0	17	0
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	2	0	0	2	0
Wearing Surfaces	2816	Asphalt Surface Repair	498	1215	0	498	0	717

Element Condition and Maintenance Data

Structure Number: **090057** Inspection Date: **03/03/2021**

Span 1 Beam 1

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 2

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 3

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 4

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 5

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18	Feet

General Comments

Span 1 Beam 6

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 1 Beam 7

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	16		Feet
111	**Split/Delamination (Timber)**	**16" X 3" X 3" AREA OF DELAMINATION IN BOTTOM LEFT CORNER OF JOIST AT BENT 1**	2	2		Feet

General Comments

Span 1 Beam 8

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 1 Beam 9

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 1 Beam 10

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	16		Feet
111	Split/Delamination (Timber)	UP TO 19" X 3" X 3" AREAS OF DELAMINATION IN BOTTOM CORNERS OF JOIST AT BENT 1	2	2		Feet

General Comments

Span 1 Beam 11

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 12

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 13

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	16		Feet
111	Split/Delamination (Timber)	UP TO 14" X 4" X 3" AREAS OF DELAMINATION IN BOTTOM CORNERS OF JOIST AT BENT 1	2	2		Feet

General Comments

Span 1 Beam 14

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 15

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 16

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	17		Feet
111	Split/Delamination (Timber)	9" X 3" X 3" AREA OF DELAMINATION IN BOTTOM LEFT CORNER OF JOIST AT BENT 1	2	1		Feet

General Comments

Span 1 Beam 17

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 1 Beam 18

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18	Feet

General Comments

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	413	239	0	174	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	**Crack (Wearing Surface)**	**SCATTERED TRANSVERSE CRACKING / LONGITUDINAL CRACKING IN ASPHALT WEARING SURFACE UP TO AN .125" WIDE.**	3	150	150	Square Feet
510	**Crack (Wearing Surface)**	**UP TO 1/4" TRANSVERSE CRACK ALONG END BENT 1 FILL FACE**	3	24	24	Square Feet

General Comments

Span 1 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	15	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	**Delamination/Spall**	**SPALLED AREA WITH (3) UP TO 6" DIAMETER X 1/2" DEEP SPALLS ALONG EXTERIOR SIDES OF RAIL AT PREVIOUS GUARDRAIL CONNECTION.**	2	3	3	Feet

General Comments

Span 1 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	16	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	**Delamination/Spall**	**SPALL NO EXPOSED STEEL, (15" X 4" X 1") EXTERIOR SIDE OF RAIL AT PREVIOUS GUARDRAIL CONNECTION.**	3	2	2	Feet

General Comments

Span 2 — Beam 1

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet

General Comments

Span 2 Beam 2

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	17		Feet

General Comments

Span 2 Beam 3

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	17		Feet

General Comments

Span 2 Beam 4

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	17		Feet

General Comments

Span 2 Beam 5

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	17		Feet

General Comments

Span 2 Beam 6

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	14		Feet

111	**Split/Delamination (Timber)**	**14" X 3" X 2" SPLIT IN BOTTOM LEFT CORNER OF JOIST AT BENT 2**	2	2	Feet
111	**Split/Delamination (Timber)**	**at Bent 1, bottom of joist Delamination (12" long x 1-1/2" x 2".)**	2	1	Feet

General Comments

Span 2 Beam 7

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet

General Comments

Span 2 Beam 8

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet

General Comments

Span 2 Beam 9

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet

General Comments

Span 2 Beam 10

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	15		Feet
111	**Split/Delamination (Timber)**	**12" X 3" X 2" SPLIT IN BOTTOM LEFT CORNER OF JOIST AT BENT 1**	2	1		Feet
111	**Split/Delamination (Timber)**	**9" X 3" X 2" SPLIT IN BOTTOM LEFT CORNER OF JOIST AT BENT 2**	2	1		Feet

General Comments

Span 2 Beam 11

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet

General Comments

Span 2 Beam 12

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	15		Feet
111	**Split/Delamination (Timber)**	**13" X 3" X 2" AREA OF DELAMINATION IN BOTTOM LEFT CORNER OF JOIST AT BENT 2**	2	2		Feet

General Comments

Span 2 Beam 13

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	16		Feet
111	**Split/Delamination (Timber)**	**10" X 2" X 2" AREA OF DELAMINATION IN BOTTOM RIGHT CORNER OF JOIST AT BENT 1**	2	1		Feet

General Comments

Span 2 Beam 14

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	16		Feet
111	**Split/Delamination (Timber)**	**9" X 2" X 2" AREA OF DELAMINATION IN BOTTOM LEFT CORNER OF JOIST AT BENT 2**	2	1		Feet

General Comments

Span 2 Beam 15

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	16		Feet
111	**Split/Delamination (Timber)**	**9" X 2" X 2" AREA OF DELAMINATION IN BOTTOM LEFT CORNER OF JOIST AT BENT 2**	2	1		Feet

General Comments

Span 2 Beam 16

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet

General Comments

Span 2 Beam 17

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	16		Feet
111	**Split/Delamination (Timber)**	**11" X 3" X 2" AREA OF DELAMINATION IN BOTTOM RIGHT CORNER OF JOIST AT BENT 2**	2	1		Feet

General Comments

Span 2 Beam 18

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	17	0	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet

General Comments

Span 2 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	17	16	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	**Cracking (RC and Other)**	**POST #3 CRACKED AREA (UP TO 3/8" WIDE X FULL WIDTH)**	3	1	1	Feet

General Comments

Span 2 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	394	244	0	150	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	**Crack (Wearing Surface)**	**SCATTERED TRANSVERSE CRACKING / LONGITUDINAL CRACKING IN ASPHALT WEARING SURFACE UP TO AN .125" WIDE.**	3	150	150	Square Feet

General Comments

Span 3 — Beam 1

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 — Beam 2

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 — Beam 3

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Beam 4

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet
111	**Split/Delamination (Timber)**	**11" X 3" X 2" AREA OF DELAMINATION IN BOTTOM LEFT CORNER OF JOIST AT BENT 2**	2	1		Feet

General Comments

Span 3 Beam 5

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	16		Feet
111	**Split/Delamination (Timber)**	**22" X 7" X 3" AREA OF DELAMINATION IN BOTTOM RIGHT CORNER OF JOIST AT BENT 2**	2	2		Feet

General Comments

Span 3 Beam 6

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Beam 7

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Beam 8

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 3 Beam 9

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 3 Beam 10

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	17		Feet
111	Split/Delamination (Timber)	12" X 3" X 2" SPLIT IN BOTTOM LEFT CORNER OF JOIST AT BENT 2	2	1		Feet

General Comments

Span 3 Beam 11

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Check/Shake	CHECKS ALONG THE JOIST UP TO .062" WIDE	2	18		Feet

General Comments

Span 3 Beam 12

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18	Feet

General Comments

Span 3 Beam 13

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Beam 14

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	17		Feet
111	**Split/Delamination (Timber)**	**11" X 2" X 2" AREA OF DELAMINATION IN BOTTOM RIGHT CORNER OF JOIST AT BENT 2**	2	1		Feet

General Comments

Span 3 Beam 15

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Beam 16

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Beam 17

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Beam 18

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	18	0	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	**Check/Shake**	**CHECKS ALONG THE JOIST UP TO .062" WIDE**	2	18		Feet

General Comments

Span 3 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	408	234	0	174	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	**Crack (Wearing Surface)**	**SCATTERED TRANSVERSE CRACKING / LONGITUDINAL CRACKING IN ASPHALT WEARING SURFACE UP TO AN .125" WIDE.**	3	150	150	Square Feet
510	**Crack (Wearing Surface)**	**UP TO 1/4" TRANSVERSE CRACK ALONG END BENT 2 FILL FACE**	3	24	24	Square Feet

General Comments

Span 3 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	17	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	**Delamination/Spall**	**SPALL (6" diameter x 1" deep) no exposed steel, EXTERIOR SIDE OF RAIL AT PREVIOUS GUARDRAIL CONNECTION.**	2	1	1	Feet
331	**Cracking (RC and Other)**	**Curb, 1/32" wide TRANSVERSE CRACK**	1			Feet

General Comments

Span 3 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	18	15	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	**Delamination/Spall**	**Post 2, spall no exposed steel, (3" x 2" x 1".)**	2	1	1	Feet
331	**Delamination/Spall**	**SPALLS NO EXPOSED STEEL, (UP TO 6" DIAMETER X 1") ALONG EXTERIOR SIDE OF RAIL AT PREVIOUS GUARDRAIL CONNECTION.**	2	2	2	Feet
331	Cracking (RC and Other)	HAIRLINE TRANSVERSE CRACKING SCATTERED ALONG CURBS.	1			Feet

General Comments

End Bent 1 — Abutment

Timber Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
216	Timber Abutment	32	26	0	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
216	**Scour**	**PRIORITY ACTION REQUEST: Pile 1 to left end, scour (6' long x 6" h.) at bottom of Bulkhead Boards exposing embankment fill 3" deep, fill spilling out. (2021 INSPECTION: UNABLE TO VERIFY DUE TO HIGH WATER)**	3	6	6	Feet
216	**Damage**	**Between piles 1 & 2, Lumber patchwork repair to timber Bulkhead Boards, 6' long. (Previous repair.)**	1	6		Feet
216	**Damage**	**BOTH SIDES OF PILE 4, TIMBER BULKHEAD BOARDS REPLACED (PREVIOUS REPAIR) (6' LONG)**	1	6		Feet

General Comments

UNDERWATER 4/23/19: SCAB BOARDS IN PLACE ALONG ABUTMENT 1 BULKHEAD.

End Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	29	7	20	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	**Delamination/Spall**	**Between piles 1 and 2, Bottom of cap, Spall with Exposed Steel (15" x 7" x 8".)**	3	2	2	Feet
234	**Cracking (RC and Other)**	**CAP ROUGH & WORN AT LOWER 1/2 PORTION.**	2	20	20	Feet

General Comments

End Bent 1 — Pile 1

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1		Each

228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2	Each

General Comments

End Bent 1 — Pile 2

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1		Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each

General Comments

End Bent 1 — Pile 3

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.**	2	1		Each

General Comments

End Bent 1 — Pile 4

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1		Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each

General Comments

End Bent 1 — Pile 5

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Bent 1 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	27	0	27	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	**Damage**	**abrasion up to 1/4" deep, exposing aggregate, 12" high.**	2	27		Feet
234	**Damage**	**Timber Crown Strip at right end of cap, decay / Section Loss (10" long x 2-1/2" x 1-1/2".)**	2		1	Feet

General Comments

Bent 1 Pile 1

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1	1	Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each

General Comments

Bent 1 Pile 2

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each
228	Decay/Section Loss	Decay, (1/2" deep x 12" x 12".)	2	1		Each

General Comments

UNABLE TO VERIFY DUE TO DEFECT BELOW WATER SURFACE

Bent 1 Pile 3

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	61	19	0	30	12	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	**Corrosion**	**RUST ALONG THE STEEL CROSS CAP PILES. RUST ALONG THE STEEL CROSS CAP**	2	1		Each
225	Corrosion	UNDERWATER 4/23/19: SURFACE RUST ALONG FLANGE EDGES.	2			Each
515	Effectiveness (Steel Protective Coatings)	UNDERWATER 4/23/19: PROTECTIVE COATING FAILED IN AREAS OF CORROSION.	4	12	12	Square Feet
515	**Effectiveness (Steel Protective Coatings)**	**RUST ALONG THE STEEL CROSS CAP PILES. RUST ALONG THE STEEL CROSS CAP**	3	30	30	Square Feet

General Comments

STEEL CROSS CAP IN PLACE BETWEEN PILES 2 & 4.

Bent 1 — Pile 4

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1	1	Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each

General Comments

Bent 1 — Pile 5

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each
228	**Decay/Section Loss**	**Decay, (1/2" deep x 12" x 12".)**	2	1		Each

General Comments

End Bent 2 — Abutment

Timber Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
216	Timber Abutment	32	31	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
216	**Decay/Section Loss**	**Soldier Pile at Northeast Corner, decay 2" deep x 1/2 circumference, hollow sound 3' high.**	3	1	3	Feet

General Comments

UNDERWATER 4/23/19: N.E. END OF ABUTMENT 2 HAS PREVIOUSLY BEEN REPAIRED.

Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	27	0	21	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	**Damage**	**ABRASION UP TO 1" DEEP, EXPOSING AGGREGATE, 12" HIGH**	3	5		Feet
234	**Delamination/Spall**	**EAST END AT LOWER CORNER SPALLED AREA, no exposed steel, (5"LONG X 6"WIDE X 6"HIGH)**	3	1	1	Feet
234	**Damage**	**abrasion up to 1/4" deep, exposing aggregate, 12" high.**	2	20	20	Feet
234	**Delamination/Spall**	**South face at top, above Steel Cross cap crutch, Spall no exposed steel (6" diameter x 1" deep.)**	2	1	1	Feet

General Comments

Bent 2 Pile 1

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1	1	Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-CONCRETE COLLAR.	2			Each

General Comments

UNDERWATER 4/23/19: PILE 1 @ BENT 2 ENCASED IN CONCRETE STOPS +/- 4' BELOW CAP.

Bent 2 Pile 2

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1	1	Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each

General Comments

Bent 2 Pile 3

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	61	21	0	30	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	**Corrosion**	**RUST ALONG THE STEEL CROSS CAP PILES. RUST ALONG THE STEEL CROSS CAP**	2	1		Each
225	Corrosion	UNDERWATER 4/23/19: SURFACE RUST ON FLANGE EDGES.	2			Each
515	Effectiveness (Steel Protective Coatings)	UNDERWATER 4/23/19: PROTECTIVE COATING FAILED IN AREAS OF CORROSION.	4	10	10	Square Feet
515	**Effectiveness (Steel Protective Coatings)**	**Failing Corrosion initiated**	3	30	30	Square Feet

General Comments

STEEL CROSS CAP CRUTCH IN PLACE BETWEEN PILES 2 & 4 @ BENT 2

Bent 2 Pile 4

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1		Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2			Each

General Comments

Bent 2 Pile 5

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	**Check/Shake**	**CHECKS ALONG THE PILES UP TO .066" WIDE**	2	1	1	Each
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-CONCRETE COLLAR.	2			Each

General Comments

UNDERWATER 4/23/19: PILE 5 @ BENT 2 ENCASED IN CONCRETE, COLLAR STOPS 4' BELOW CAP.

End Bent 2 Pile 1

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2	1		Each

General Comments

End Bent 2 Pile 2

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2	1		Each

General Comments

End Bent 2 Pile 3

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2	1		Each

General Comments

End Bent 2 Pile 4

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	UNDERWATER 4/23/19: CHECKS TO 1/16" FROM M/L-W/S.	2	1		Each

General Comments

unable to sound with hammer due to formwork for previous erosion repair to Abutment 2.

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	450
Span 1	Beam 1	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 2	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 3	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 4	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 5	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 6	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 7	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 8	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 9	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 10	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 11	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 12	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 13	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 14	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 15	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 16	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 17	Timber Joist	Timber Open Girder/Beam	18
Span 1	Beam 18	Timber Joist	Timber Open Girder/Beam	18
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	413
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	430
Span 2	Beam 1	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 2	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 3	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 4	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 5	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 6	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 7	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 8	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 9	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 10	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 11	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 12	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 13	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 14	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 15	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 16	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 17	Timber Joist	Timber Open Girder/Beam	17
Span 2	Beam 18	Timber Joist	Timber Open Girder/Beam	17
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	17
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	17
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	394
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	445

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Beam 1	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 2	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 3	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 4	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 5	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 6	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 7	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 8	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 9	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 10	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 11	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 12	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 13	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 14	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 15	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 16	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 17	Timber Joist	Timber Open Girder/Beam	18
Span 3	Beam 18	Timber Joist	Timber Open Girder/Beam	18
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	18
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	408
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	27
Bent 1	Pile 1	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Pile	1
Bent 1	Pile 3	Steel Pile	Steel Pile	1
Bent 1	Pile 4	Timber Pile	Timber Pile	1
Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	32
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	27
Bent 2	Pile 1	Timber Pile	Timber Pile	1
Bent 2	Pile 2	Timber Pile	Timber Pile	1
Bent 2	Pile 3	Steel Pile	Steel Pile	1
Bent 2	Pile 4	Timber Pile	Timber Pile	1
Bent 2	Pile 5	Timber Pile	Timber Pile	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Pile 3	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	32

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 090057 **Inspection Date:** 03/03/2021

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**6**
Item 59: Superstructure	0 - 9 , N	**6**
Item 60: Substructure	0 - 9 , N	**4**
Item 61: Channel and Channel Protection	0 - 9 , N	**4**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**5**
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	**G**	**0**	**3376**
Drainage System	G, F, P, or C	**G**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		**0**	**3352**
Scour	G, F, P, or C	**P**		
Wingwall	G, F, P, or C	**F**	**1**	**3350**
Field Scour Evaluation		**P**		
Drift	G, F, P, or C	**G**	**0**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**F**		
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	**N**
Inspection Time	Hours	**8**
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	**N**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**Y**
Other Equipment Used	YES/NO	**N**
Portion of Structure in > 3' of water	YES/NO	**Y**

National Bridge and NC SMU Inspection Item Details

Structure Number: 090057 **Inspection Date:** 03/03/2021

Item Deck - Item 58 **Grade** 6 **Maint Code** **Qty.** 0

Details CURBS WEATHERED WITH EXPOSED AGGREGATE ALONG FULL LENGTH OF DECK

Item Substructure - Item 60 **Grade** 4 **Maint Code** **Qty.** 0

Details BENTS 1 AND 2 HAVE A STEEL PILE AND CROSS CAP TEMPORARY SHORING AS "PILE 3" (PREVIOUSLY ADDED)

Item Channel and Channel Protection - Item 61 **Grade** 4 **Maint Code** **Qty.** 0

Details GRADE REFLECTS WIDESPREAD SCOUR OF THE CHANNEL

Item Scour **Grade** P **Maint Code** **Qty.** 0

Details FROM SCOUR POA RECOMMENDATION DATED 04.01.2019

SCOUR ISSUES
Soundings taken exceed the monitoring depth of 16.0ft below the top of rail. In general, the stream bed along the downstream face has dropped an average of 6.5-ft when compared to the 2009 stream bed. Piles along the downstream face of Bent 1 and Bent 2 are 22.2-ft and 41.5-ft respectively, embedding them 4.2-ft and 22.7-ft below the currently reported stream bed. This bridge is scheduled to be replaced under TIP 3-5624 with a let of 7/21/2020

RECOMMENDED PLAN OF ACTION
Monitoring - yes

WHEN TO MONITOR:
Storm events that raise the water surface elevation to the Top of Caps and Routine Inspections.

MONITORING DETAILS:
Contact the Hydraulics unit if Settlement/tilting of piles occurs or if the scour depth increases or if the bridge is not replaced by the next inspection cycle.

email sent to Hydraulics Unit on 3.4.2021

Item Response to live load **Grade** F **Maint Code** **Qty.** 0

Details VIBRATION UNDER TRUCK LOAD

Item Wingwalls **Grade** F **Maint Code** 3350 **Qty.** 1

Details NORTHEAST WINGWALL SOLDIER PILE HAS DECAY UP TO 4" DEEP

Item Portion of structure in > 3' of water (Y or N) **Grade** Y **Maint Code** **Qty.** 0

Details BENT 1
BENT 2

abrasion up to 1/4" deep, exposing aggregate, 12" high.

Timber Crown Strip at right end of cap, decay / Section Loss (10" long x 2-1/2" x 1-1/2".)

Span 1 Beam 7: 16" X 3" X 3" AREA OF DELAMINATION IN BOTTOM LEFT CORNER OF JOIST AT BENT 1

Span 1 Beam 10: UP TO 19" X 3" X 3" AREAS OF DELAMINATION IN BOTTOM CORNERS OF JOIST AT BENT 1

Decay, (1/2" deep x 12" x 12".)

South face at top, above Steel Cross cap crutch, Spall no exposed steel (6" diameter x 1" deep.)

Bent 2 Cap 1: ABRASION UP TO 1" DEEP, EXPOSING AGGREGATE, 12" HIGH

Span 3 Beam 10: 12" X 3" X 2" SPLIT IN BOTTOM LEFT CORNER OF JOIST AT BENT 2

CHECKS ALONG THE PILES UP TO .066" WIDE

EAST END AT LOWER CORNER SPALLED AREA, no exposed steel, (5"LONG X 6"WIDE X 6"HIGH)

Between piles 1 and 2, Bottom of cap, Spall with Exposed Steel (15" x 7" x 8".)

PRIORITY ACTION REQUEST: Pile 1 to left end, scour (6' long x 6" h.) at bottom of Bulkhead Boards exposing embankment fill 3" deep, fill spilling out. (2021 INSPECTION: UNABLE TO VERIFY DUE TO HIGH WATER)

BOTH SIDES OF PILE 4, TIMBER BULKHEAD BOARDS REPLACED (PREVIOUS REPAIR) (6' LONG)

CHECKS ALONG THE JOIST UP TO .062" WIDE

SCATTERED TRANSVERSE CRACKING / LONGITUDINAL CRACKING IN ASPHALT WEARING SURFACE UP TO AN .125" WIDE.

Span 1 Wearing Surface: UP TO 1/4" TRANSVERSE CRACK ALONG END BENT 1 FILL FACE

SPALL NO EXPOSED STEEL, (15" X 4" X 1") EXTERIOR SIDE OF RAIL AT PREVIOUS GUARDRAIL CONNECTION.

POST #3 CRACKED AREA (UP TO 3/8" WIDE X FULL WIDTH)

HAIRLINE TRANSVERSE CRACKING SCATTERED ALONG CURBS

Stream Bed Soundings

(Profile diagram on following sheet)

County **BRUNSWICK** Structure Number: **090057** Inspection Date **03/03/2021**

Sounding recorded from: **Top of Bridge Rail**

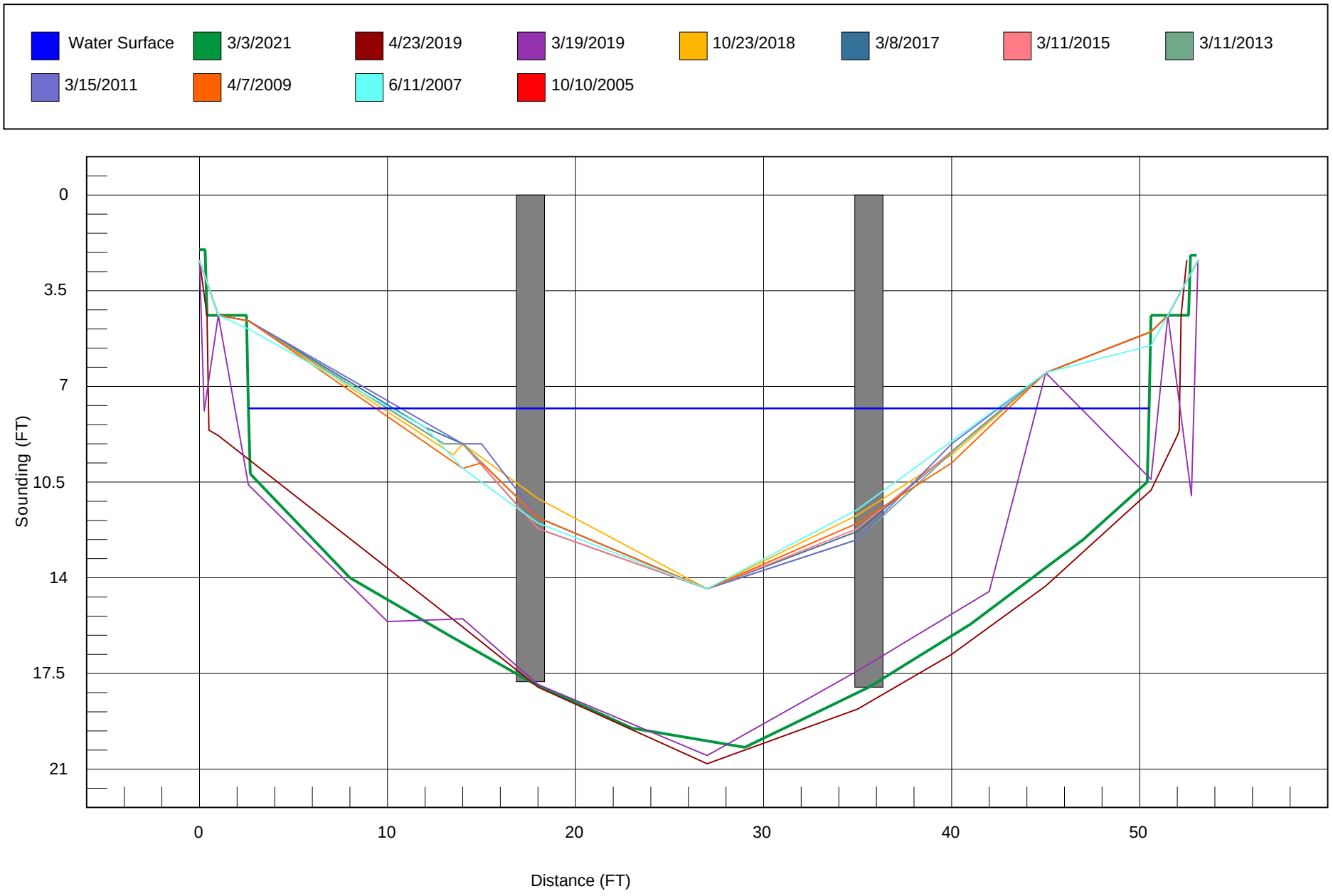
Highwater Mark Distance **4.5** Location of Highwater Mark **DRIFT ON BANKS**

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.000	0.000	TOP OF BULKHEAD
0.300	2.000	0.000	TOP OF BULKHEAD
0.400	4.400	0.000	TOP OF CAP
2.500	4.400	0.000	TOP OF CAP
2.600	7.800	0.000	WSWE
2.700	10.200	10.300	STREAMBED AT CAP
8.000	14.000	10.300	STREAMBED
13.000	16.000	0.000	STREAMBED
17.600	17.800	14.700	BENT 1
23.000	19.500	0.000	STREAMBED
29.000	20.200	0.000	STREAMBED
35.600	18.000	15.300	BENT 2
41.000	15.700	0.000	STREAMBED
47.000	12.600	0.000	STREAMBED
50.400	10.500	10.100	STREAMBED AT CAP
50.500	7.800	0.000	WSWE
50.600	4.400	0.000	TOP OF CAP
52.600	4.400	0.000	TOP OF CAP
52.700	2.200	0.000	TOP OF BULKHEAD
53.000	2.200	0.000	TOP OF BULKHEAD

Bridge: 090057 County: BRUNSWICK Date: 03/03/2021

STREAMBED PROFILE (Downstream)

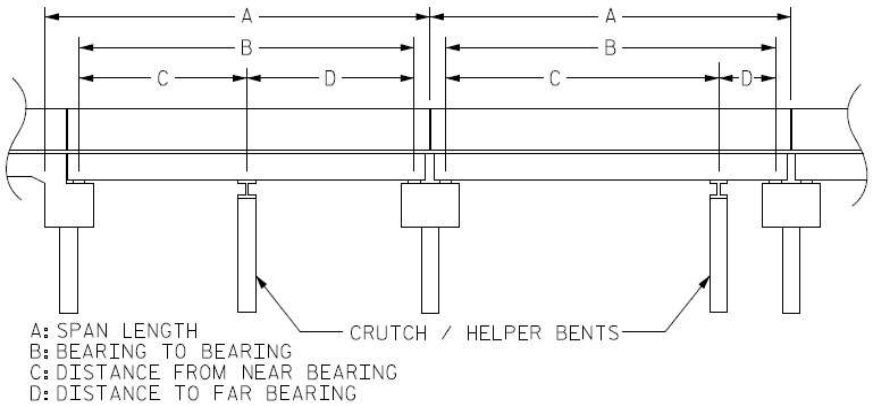
Top of Rail = 0FT (Sounding)



Structure Data Worksheet

Span Profile

County: **BRUNSWICK** Structure Number: **090057**



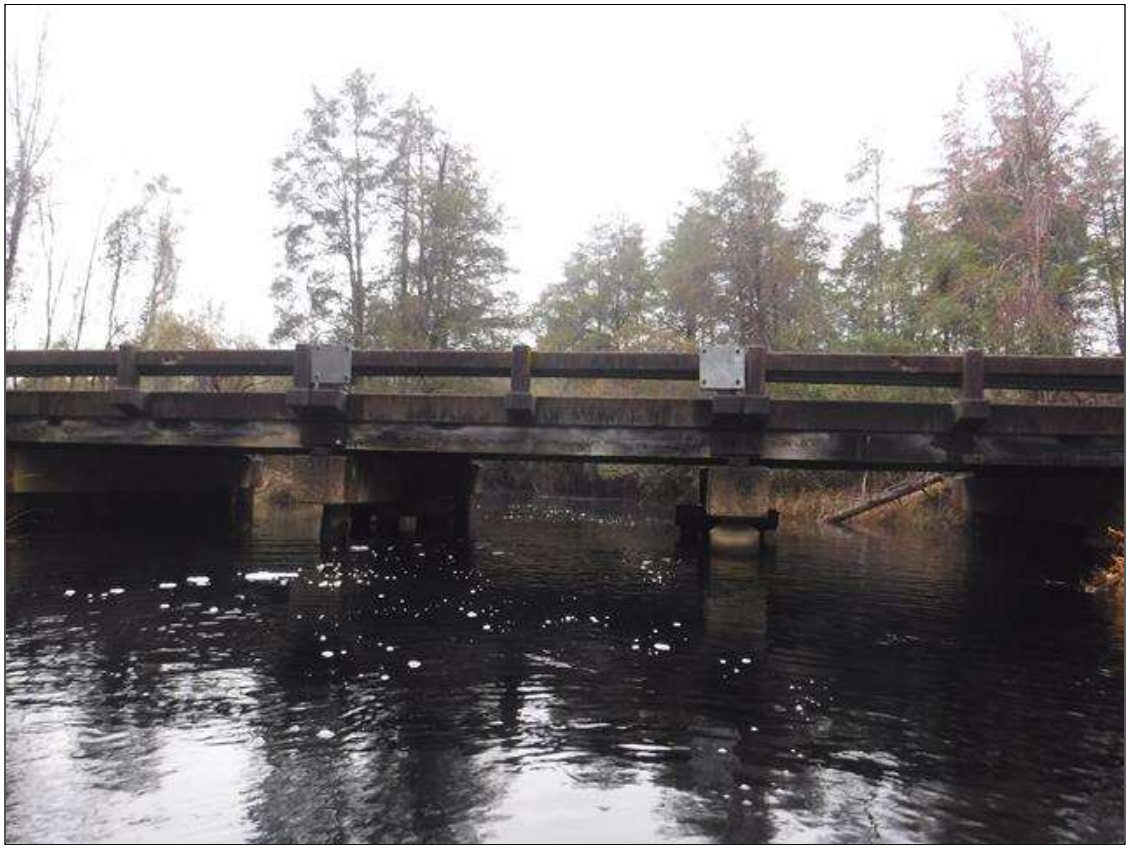
Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	17.800	16.750			
2	17.000	17.000			
3	17.600	16.580			

BENT 2

SPAN 3 UPSTREAM PROFILE, LOOKING WEST

SPAN 2 UPSTREAM PROFILE, LOOKING WEST

SPAN 1 UPSTREAM PROFILE, LOOKING WEST



UPSTREAM PROFILE, LOOKING WEST

END BENT 2

END BENT 1

BENT 1

DOWNSTREAM PROFILE, LOOKING EAST

LOOKING UPSTREAM, EAST

LOOKING DOWNSTREAM, WEST

SPAN 2 UNDERDECK, OTHERS SIMILAR

GUARDRAIL END TREATMENT AT SOUTHEAST CORNER, OTHERS SIMILAR

SOUTHWEST APPROACH GUARDRAIL POST SPACING AT MID LENGTH

SOUTHWEST APPROACH GUARDRAIL POST SPACING AT BRIDGE

GUARDRAIL TO BARRIER RAIL CONNECTION AT SOUTHEAST CORNER, OTHERS SIMILAR

LEFT RAIL, RIGHT RAIL SIMILAR

BENT 1 OVERLAY, BENT 2 SIMILAR

LOOKING NORTH

NORTH APPROACH

LOOKING UPSTREAM, EAST

LOOKING DOWNSTREAM, WEST

SOUTH APPROACH

NORTH APPROACH, LOOKING SOUTH

PILE 3 AT BENT 2 TEMPORARY SHORING, PILE 3 AT BENT 1 SIMILAR

Bridge Inspection Field Sketch

Roadway	21.25ft Wide	2 Paved Lanes	Looking North
Left Shoulder	2.00ft Wide		2.00ft Unpaved
Right Shoulder	2.00ft Wide	0.667ft Paved	1.333ft Unpaved
Left Guardrail	2.00ft from road		
Right Guardrail	2.00ft from road		

Measurements recorded approximately 10.00ft from End Bent 1 fill face.

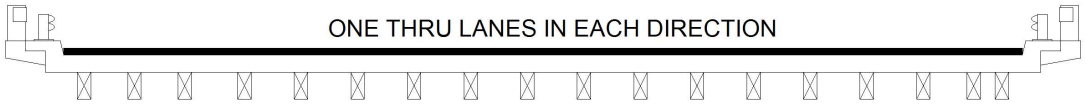
SKETCH REVISED BY BKE ON 3.3.2021

Title	**Description**
APPROACH ROADWAY	LOOKING NORTH

Bridge No: 090057	**Drawn By:** EHT	**Date:** 04/07/09	**File Name:** S0042000984

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.083ft*	Between Rails				25.167ft
Clear Roadway	23.917ft	Wearing Surface				0.167ft
Median Width		Median Height				
Curb Height		Left	0.583ft	Right	0.583ft	
Curb Width		Left	0.667ft	Right	0.667ft	
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.917ft	Right	0.917ft	
Top of Rail to Deck/Wearing Surface		Left	2.667ft	Right	2.667ft	
Bridge Rail		Left	Type 21	Right	Type 21	



Measurements for Spans	1 and 3		
Deck Thickness	0.417	Left Overhang	1.875*
Top of Rail to Bottom of Beam	4.083	Right Overhang	1.875*

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.333ft	
2	Timber (Rectangular)	1.333ft	
3	Timber (Rectangular)	1.583ft	
4	Timber (Rectangular)	1.50ft	
5	Timber (Rectangular)	1.50ft	
6	Timber (Rectangular)	1.50ft	
7	Timber (Rectangular)	1.50ft	
8	Timber (Rectangular)	1.50ft	
9	Timber (Rectangular)	1.50ft	
10	Timber (Rectangular)	1.50ft	
11	Timber (Rectangular)	1.50ft	
12	Timber (Rectangular)	1.50ft	
13	Timber (Rectangular)	1.50ft	
14	Timber (Rectangular)	1.50ft	
15	Timber (Rectangular)	1.50ft	
16	Timber (Rectangular)	1.333ft	
17	Timber (Rectangular)	.75ft	
18	Timber (Rectangular)		

* Measurements include Brackets. Without Brackets: Out to Out = 25.25
Overhangs = 0.458

SKETCH REVISED BY BKE ON 3.3.2021 (CHANGES IN RED)

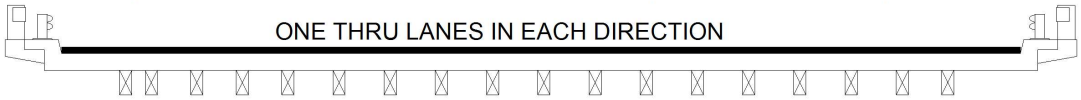
Title
TYPICAL SECTION

Description
18 LINES OF TIMBER JOISTS

Bridge No: 090057 **Drawn By:** BC **Date:** 09/14/2005 **File Name:** S0042000986

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.083ft*	Between Rails				25.167ft
Clear Roadway	23.917ft	Wearing Surface				0.167ft
Median Width		Median Height				
Curb Height		Left	0.583ft	Right	0.583ft	
Curb Width		Left	0.667ft	Right	0.667ft	
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.917ft	Right	0.917ft	
Top of Rail to Deck/Wearing Surface		Left	2.667ft	Right	2.667ft	
Bridge Rail		Left	Type 21	Right	Type 21	



Measurements for Span	2		
Deck Thickness	0.417	Left Overhang	1.875*
Top of Rail to Bottom of Beam	4.083	Right Overhang	1.875*

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	0.75ft	
2	Timber (Rectangular)	1.333ft	
3	Timber (Rectangular)	1.333ft	
4	Timber (Rectangular)	1.583ft	
5	Timber (Rectangular)	1.50ft	
6	Timber (Rectangular)	1.50ft	
7	Timber (Rectangular)	1.50ft	
8	Timber (Rectangular)	1.50ft	
9	Timber (Rectangular)	1.50ft	
10	Timber (Rectangular)	1.50ft	
11	Timber (Rectangular)	1.50ft	
12	Timber (Rectangular)	1.50ft	
13	Timber (Rectangular)	1.50ft	
14	Timber (Rectangular)	1.50ft	
15	Timber (Rectangular)	1.50ft	
16	Timber (Rectangular)	1.50ft	
17	Timber (Rectangular)	1.333ft	
18	Timber (Rectangular)		

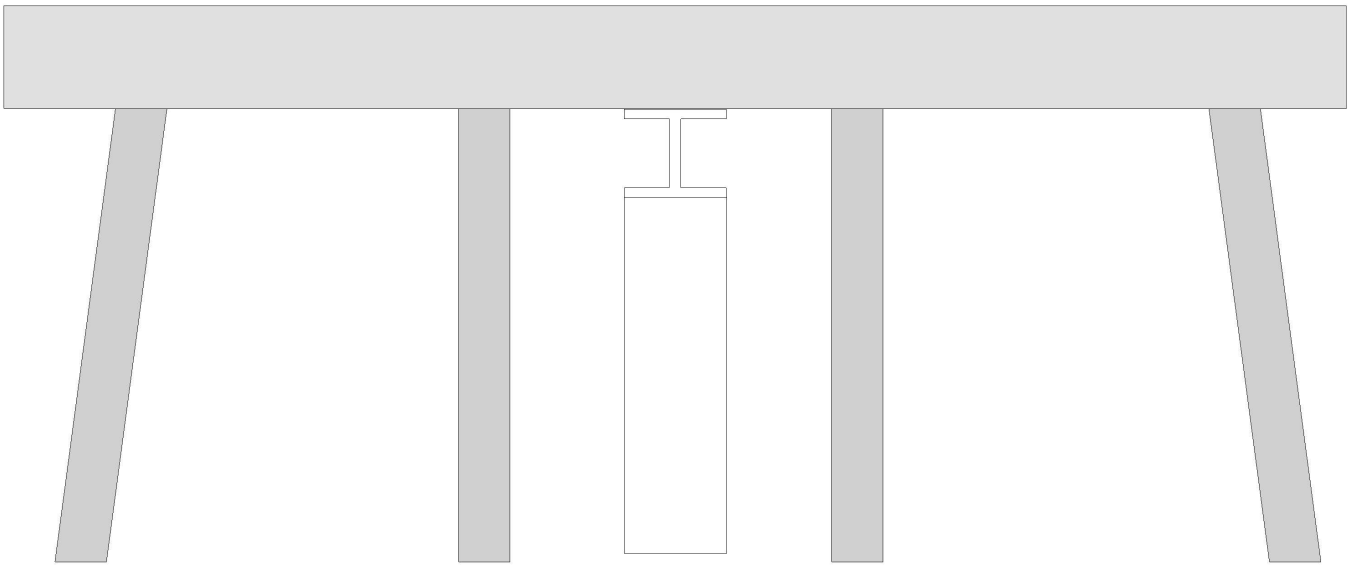
* Measurements include Brackets. Without Brackets: Out to Out = 25.25
Overhangs = 0.458

SKETCH REVISED BY BKE ON 3.3.2021 (CHANGES IN RED)

Title	Description
TYPICAL SECTION 2	18 LINES OF TIMBER JOISTS

Bridge No:	Drawn By:	Date:	File Name:
090057	RGM	3/8/2017	S0038000965

Bridge Inspection Field Sketch



Cap Information			Material Cast in Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.083 ft.	2.25 ft.	2.00 ft.	2.667 ft.	2.167 ft.	0.771 ft.	0.791 ft.

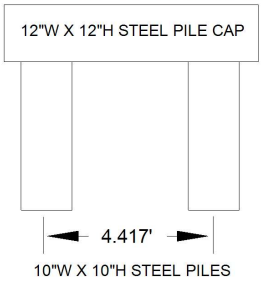
Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6.667 ft.	1.00 ft.			Battered	Yes	No	No	No
2	Timber	3.50 ft.	1.00 ft.			Vertical	Yes	No	No	No
3	Steel	3.75 ft.	1.00 ft.	1.00 ft.		Vertical	Yes	No	No	No
4	Timber	7.333 ft.	1.00 ft.			Vertical	Yes	No	No	No
5	Timber		1.00 ft.			Battered	Yes	No	No	No

Bent: 1

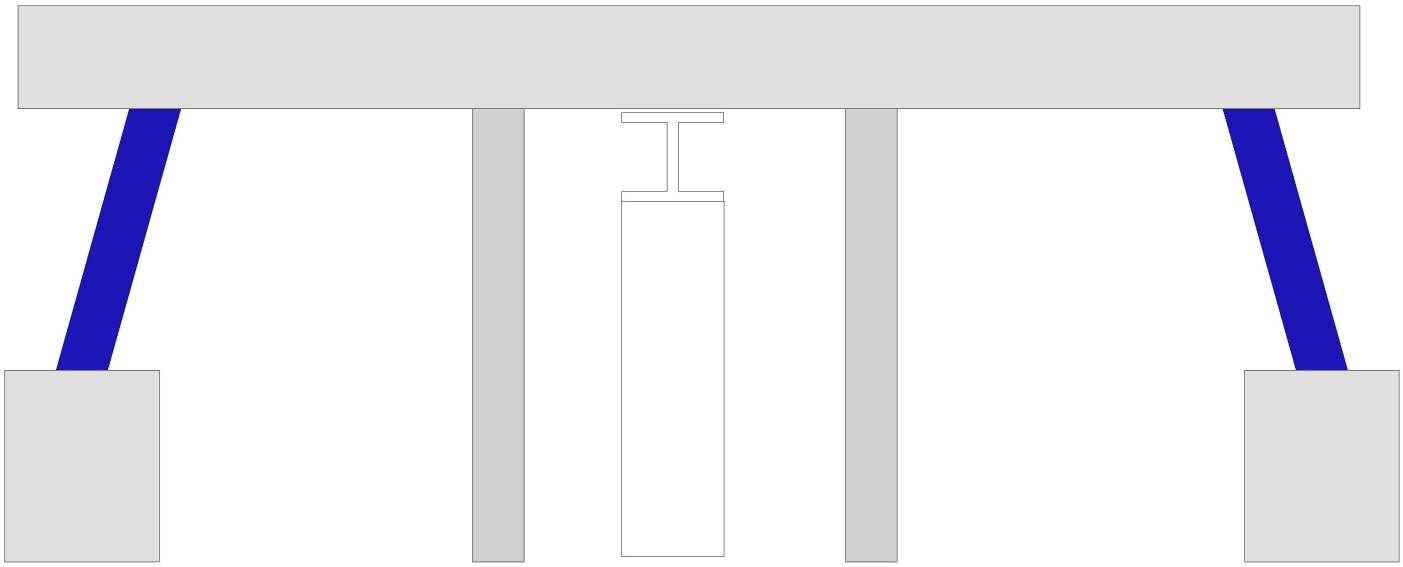
CROSSCAP CRUTCH PILE 3



SKETCH VERIFIED BY BKE ON 3.3.2021

Title	**Description**		
BENT PROFILE	BENT 1		
Bridge No: 090057	**Drawn By:** EHT	**Date:** 04/07/09	**File Name:** S0042000987

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.083 ft.	2.25 ft.	2.00 ft.	2.667 ft.	2.167 ft.	0.771 ft.	0.792 ft.

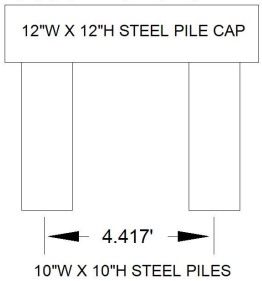
Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6.667 ft.	1.00 ft.			Battered	Yes	Yes	No	Yes
2	Timber	3.50 ft.	1.00 ft.			Vertical	Yes	No	No	No
3	Steel	3.75 ft.	1.00 ft.	1.00 ft.		Vertical	Yes	No	No	No
4	Timber	7.333 ft.	1.00 ft.			Vertical	Yes	No	No	No
5	Timber		1.00 ft.			Battered	Yes	Yes	No	Yes

Bent: 2

CROSSCAP CRUTCH PILE 3

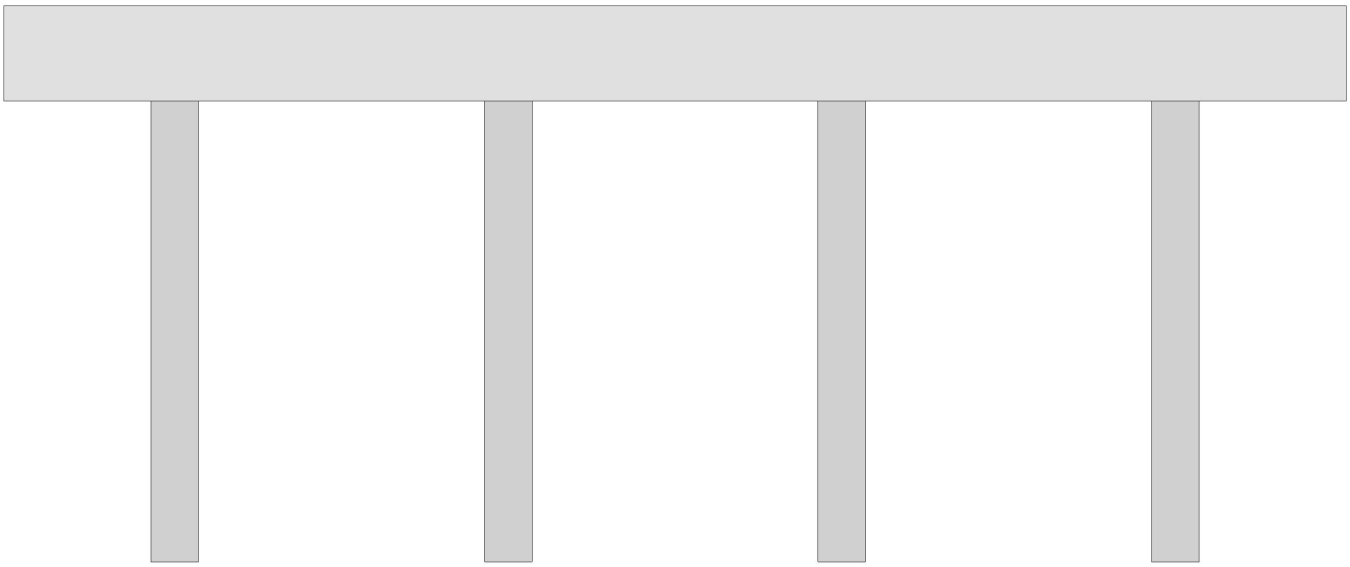


SKETCH VERIFIED BY BKE ON 3.3.2021

Title	Description
BENT PROFILE 2	BENT 2

Bridge No:	Drawn By:	Date:	File Name:
090057	RGM	3/11/2015	S0042062314

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
28.167 ft.	2.25 ft.	2.00 ft.	3.583 ft.	3.583 ft.	1.833 ft.	2.00 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	7.00 ft.	1.00 ft.			Vertical	Yes	No	No	No
2	Timber	7.00 ft.	1.00 ft.			Vertical	Yes	No	No	No
3	Timber	7.00 ft.	1.00 ft.			Vertical	Yes	No	No	No
4	Timber		1.00 ft.			Vertical	Yes	No	No	No

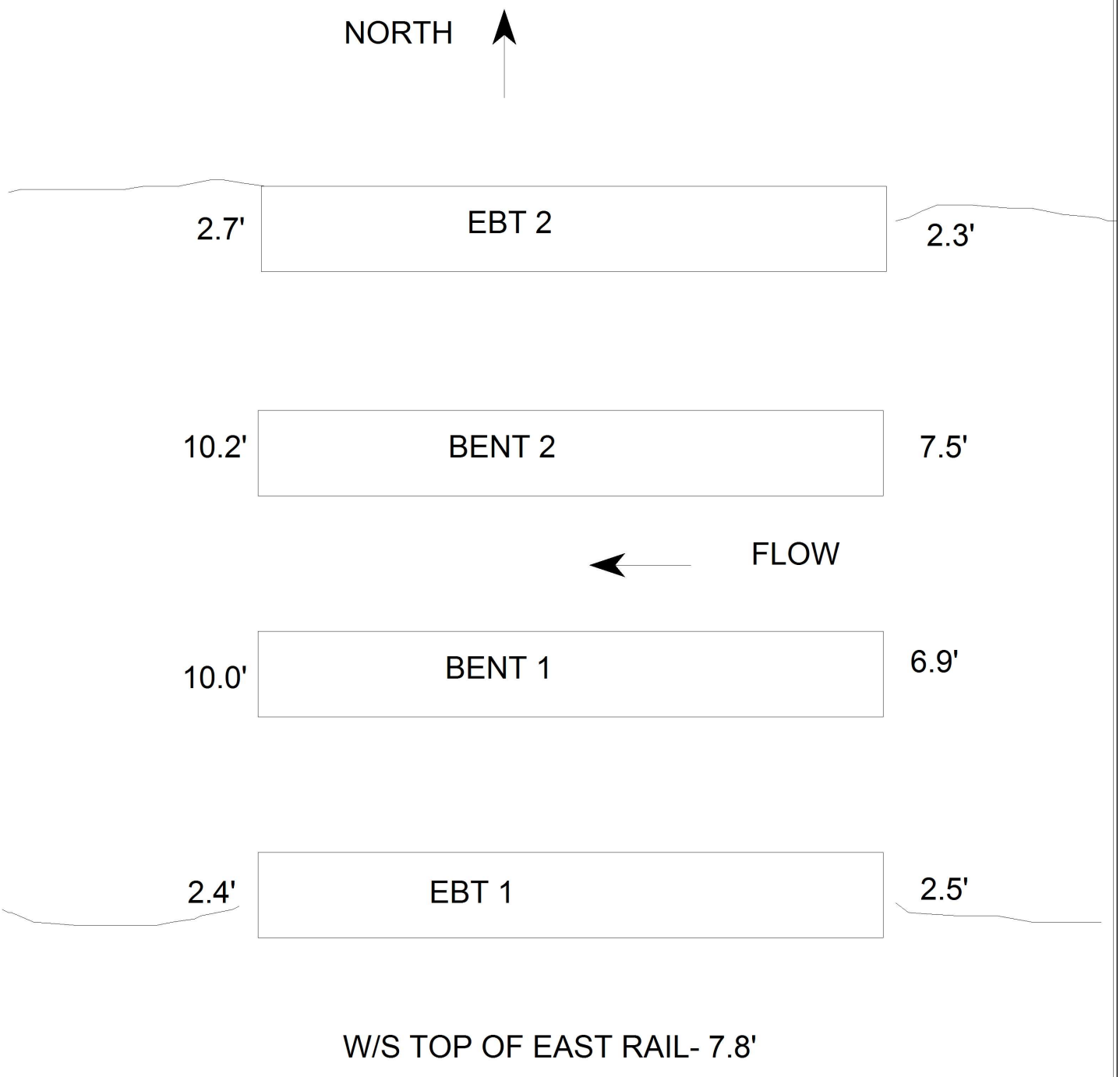
END BENT: 1

SKETCH VERIFIED BY BKE ON 3.3.2021

Title	**Description**
END BENT PROFILE	END BENTS 1 AND 2

Bridge No: 090057	**Drawn By:** JER	**Date:** 3/26/2019	**File Name:** S0382000626

Bridge Inspection Field Sketch



W/S TOP OF EAST RAIL- 7.8'

Title	Description
PLAN VIEW	TOP VIEW

Bridge No:	Drawn By:	Date:	File Name:
090057	JER	4/24/2019	S0174013563

Bridge Inspection Field Sketch

Title	Description
DELETED	DELETED

Bridge No:	Drawn By:	Date:	File Name:
090057	EHT	04/07/09	S0042000985

Bridge Inspection Field Sketch

Title	Description
DELETED 2	DELETED

Bridge No:	Drawn By:	Date:	File Name:
090057	EHT	04/07/09	S0042000988