NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE ISSUED

Structure Safety Report

Routine Element Inspection

COUNTY: WILSON **STRUCTURE NUMBER:** 970083 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1378 SR-1378 EATMON ROAD **MILE POST:**

LOCATION: 0.1 MI. N. OF JCT. SR1302 0.1 MILE NORTH OF JCT. SR-1302 COUNTRYSIDE ROAD

FEATURE INTERSECTED: JUNIPER CREEK

LATITUDE: 35° 46' 26.77" **LONGITUDE:** 78° 1' 58.65"

SUPERSTRUCTURE: RC FLOOR ON TIMBER JOIST,STD BMD-10

SUBSTRUCTURE: EBTS&IBT:TIMBER CAP/TIMBER PILES @ 8'CTS.

2 @ 17'-09" (17.75')

SPANS: 2@17'9

☐ FRACTURE CRITICAL ☑ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair **INSPECTION DATE:** 07/13/2016

POSTED SV: 17 **POSTED TTST:** 25

OTHER SIGNS PRESENT: 4 DELINEATORS

Sign noticed issued for		Number Required
YES	**WEIGHT LIMIT**	1
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

LOOKING NORTH

INSPECTED BY	SIGNATURE	ASSISTED BY
RICHARD P. STEIGER JR.	Richard P Steiger Jr.	CHRISTOPHER M. LEE

Structure Element Scoring

Structure Number: **970083**

Inspection Date **7/13/2016**

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	906	460	440	6	0
111	0	Timber Open Girder/Beam	Beam	646	641	2	3	0
216	0	Timber Abutment	Abutments	62	52	0	10	0
228	0	Timber Pile	Piles and Columns	12	11	0	1	0
235	0	Timber Pier Cap	Caps	88	88	0	0	0
332	0	Timber Bridge Railing	Bridge Rail	72	72	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **970083** Inspection Date: **07/13/2016**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	226 Square Feet
3326	Reinforced Concrete Deck	Abrasion/Wear (PSC/RC)	220 Square Feet
3304	Timber Open Girder/Beam	Decay/Section Loss	3 Feet
3304	Timber Open Girder/Beam	Split/Delamination (Timber)	2 Feet
3346	Timber Abutment	Decay/Section Loss	10 Feet
3344	Timber Pile	Crack (Timber)	2 Each

Element Structure Maintenance Quantities

Structure Number: **970083** Inspection Date **07/13/2016**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	10	62	0	10	0	52
Beam	3304	Maintenance of Timber of Superstructure Components	5	646	0	3	2	641
Bridge Rail	3316	Maintenance of Timber Bridge Rail	0	72	0	0	0	72
Caps	3344	Maintenance To Timber Substrcutre	0	88	0	0	0	88
Deck	3326	Maintenance of Concrete Deck	446	906	0	6	440	460
Piles and Columns	3344	Maintenance To Timber Substrcutre	2	12	0	1	0	11

Element Condition and Maintenance Data

Structure Number: **970083** Inspection Date: **07/13/2016**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	453	233	220	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Abrasion/Wear (PSC/RC)	ABRASION RANDOMLY LOCATED.	2	110	110	Square Feet
12	Cracking (RC and Other)	MAP CRACKING RANDOMLY LOCATED.	2	110	110	Square Feet

General Comments

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	17	17	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	17	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	17	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	17	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	17	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	16	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	DECAY 3 IN. X 4 1/2 IN. X 2 IN. HEIGHT AT THE END OF BEAM OVER END BENT 1.	2	1	1 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	17	16	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
111	Decay/Section Loss	DECAY 2 1/2 IN. DEEP X 3 1/2 IN. X 2 IN. HEIGHT ON THE END OF BEAM OVER BENT 1.	3	1	1 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	17	17	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	17	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	16	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DECAY 1 IN. DEEP X 8 IN. LONG X 3 IN. WIDE IN END OVER END BENT 1 CAP	2	1	1	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	17	17	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	453	227	220	6	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	LONGITUDINAL CRACK NEAR CENTERLINE.	3	6	6	Square Feet
12	Abrasion/Wear (PSC/RC)	ABRASION RANDOMLY LOCATED.	2	110	110	Square Feet
12	Cracking (RC and Other)	MAP CRACKING RANDOMLY LOCATED.	2	110	110	Square 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	15	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Split/Delamination (Timber)	DELAMINATION 2 FT. LONG ON RIGHT END OF BEAM.	3	2	2	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	17	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

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	17	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

JOIST REPLACED PRIOR TO INSPECTION.

Bent 1 Timber Pile 1

Timber Pile

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

VERTICAL CRACK IN CONCRETE COLLAR.

Bent 1 Timber Pile 3

Timber Pile

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

VERTICAL CRACK IN CONCRETE COLLAR.

Bent 1 — Timber Pile 4

Timber Pile

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Crack (Timber)	VERTICAL CRACK 1-2 IN. DEEP X 2 FT. HEIGTH ON SPAN 1 SIDE.	3	1	2	Each

General Comments

VERTICAL CRACK IN CONCRETE COLLAR.

End Bent 1 — Timber Abutment 1

Timber Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
216	Timber Abutment	31	21	0	10	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
216	Decay/Section Loss	BETWEEN PILE 1 AND PILE 2.	3	8	8	Feet
216	Decay/Section Loss	DECAY 2 FT. X 3 FT. SQUARE AREA ON THE LEFT END.	3	2	2	Feet

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	453
Span 1	Beam 1	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 2	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 3	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 4	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 5	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 6	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 7	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 8	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 9	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 10	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 11	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 12	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 13	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 14	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 15	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 16	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 17	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 18	Timber Joist	Timber Open Girder/Beam	17
Span 1	Beam 19	Timber Joist	Timber Open Girder/Beam	17
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	18
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	18
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	453
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	Beam 19	Timber Joist	Timber Open Girder/Beam	17
Span 2	Left Bridge Rail	Timber Rail	Timber Bridge Railing	18
Span 2	Right Bridge Rail	Timber Rail	Timber Bridge Railing	18
Bent 1		Timber Pier Cap	Timber Pier Cap	26

Elements Verfied

Location	Name	Component	Element Name	Amount
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Pile	Timber Pile	1
End Bent 1		Timber Pier Cap	Timber Pier Cap	31
End Bent 1		Timber Pile	Timber Pile	1
End Bent 1		Timber Pile	Timber Pile	1
End Bent 1		Timber Pile	Timber Pile	1
End Bent 1		Timber Pile	Timber Pile	1
End Bent 1		Timber Abutment	Timber Abutment	31
End Bent 2		Timber Pier Cap	Timber Pier Cap	31
End Bent 2		Timber Pile	Timber Pile	1
End Bent 2		Timber Pile	Timber Pile	1
End Bent 2		Timber Pile	Timber Pile	1
End Bent 2		Timber Pile	Timber Pile	1
End Bent 2		Timber Abutment	Timber Abutment	31

National Bridge and NC Inspection Items

Structure Number: 970083 **Inspection Date:** 07/13/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**5**
Item 59: Superstructure	0 - 9 , N	**5**
Item 60: Substructure	0 - 9 , N	**5**
Item 61: Channel and Channel Protection	0 - 9 , N	**6**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**7**
Item 72: Approach Roadway Alignment	0 - 9 , N	**6**

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**	**936**	**3376**
Drainage System	G, F, P, or C	**F**	**34**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C	**G**		
Wingwall	G, F, P, or C	**G**	**0**	**3350**
Field Scour Evaluation		**O**		
Drift	G, F, P, or C	**F**	**10**	**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	**G**		
Estimated Remaining Life	0 - 100 Years	**8**		
Superstructure Paint Code				

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

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**Y**
Inspection Time	Hours	**6**
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	**N**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**Y**

National Bridge and NC SMU Inspection Item Details

Structure Number: 970083 **Inspection Date:** 07/13/2016

Item	Priority Maintenance Issued	**Grade**	Y	**Maint Code**		**Qty.**	0
Details	PRIORITY MAINTENANCE ISSUED FOR THE END OF BEAM 9 OVER END BENT 1 AND END OF BEAM 11 OVER BENT 1. PRIORITY MAINTENANCE ISSUED FOR MISSING POSTING SIGN SOUTHEAST CORNER.						

Item	Presently Posted	**Grade**	Y	**Maint Code**		**Qty.**	0
Details	POSTING AT TIME OF INSPECTION WAS (SV 17 TTST 25)						

Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	936
Details	MINOR DIRT AND DEBRIS PRESENT.						

Item	Drainage System	**Grade**	F	**Maint Code**	3332	**Qty.**	34
Details	ALL DRAINS ON LEFT SIDE OF STRUCTURE ARE BLOCKED WITH VEGETATION AND DIRT AND DEBRIS						

Item	Slope Protection	**Grade**	G	**Maint Code**	3352	**Qty.**	0
Details	VEGETATION COVERED SLOPES						

Item	Drift	**Grade**	F	**Maint Code**	3366	**Qty.**	10
Details	SOME DRIFT AT WEST SIDE OF PILE 1						

DIRT AND DEBRIS ON THE LEFT SIDE OF DECK

EXPOSED COARSE AGGREGATE ON TOP OF DECK SPAN 1 (SIMILAR IN TOP OF DECK SPAN 2)

LONGITUDINAL CRACK IN TOP OF DECK OVER SPAN 2

MAP CRACKING IN TOP OF DECK SPAN 2 (SIMILAR IN TOP OF DECK SPAN 1)

DECAY ON THE LEFT END BACKWALL AT END BENT 1

DECAY ON END BENT 1 BACKWALL BETWEEN PILE 1 AND PILE 2

DECAY ON BEAM 9 IN SPAN 1

DECAY ON BEAM 9 IN SPAN 1

DECAY ON THE RIGHT END OF BEAM 11 IN SPAN 1

DECAY ON RIGHT END OF BEAM 11 IN SPAN 1

DRIFT AT PILE 1, WEST SIDE

VERTICAL CRACK IN COLLAR OF PILE 1 ON BENT 1

VERTICAL CRACK IN THE COLLAR OF PILE 3 ON BENT 1

VERTICAL CRACK IN THE COLLAR OF PILE 4 ON BENT 1

VERTICAL CRACKING IN PILE 4 ON BENT 1

DECAYED BULKHEAD BOARD ON THE LEFT END OF END BENT 2

WET AND DISCOLORED END OF JOIST OVER BENT 1, SPAN 2 SIDE (SIMILAR THROUGHOUT)

DECAY ON BOTTOM EDGE OF BEAM 15 AT END BENT 1

DELAMINATION ON THE LEFT SIDE OF BEAM 1 ON END BENT 2

LOOKING NORTH

LOOKING WEST UPSTREAM

LOOKING EAST DOWNSTREAM

LOOKING SOUTH

POSTED SIGN ON THE NORTH WEST CORNER

APPROACH ROADWAY ON THE SOUTH END

APPROACH ROADWAY ON THE NORTH END

TOP OF DECK SPAN 1

JOINT IN TOP OF DECK OVER BENT 1

TOP OF DECK SPAN 2

DIRT AND DEBRIS BLOCKING DRAIN LEFT SIDE SPAN 2 ALL OTHERS SIMILAR

EAST SIDE LOOKING UPSTREAM (PHOTO 1 OF 2)

EAST SIDE LOOKING UPSTREAM (PHOTO 2 OF 2)

END BENT 1

BENT 1, SPAN 1 SIDE

END BENT 2

SUPERSTRUCTURE OF SPAN 1

SUPERSTRUCTURE OF SPAN 2

WEST SIDE LOOKING DOWNSTREAM (PHOTO 1 OF 2)

WEST SIDE LOOKING DOWNSTREAM (PHOTO 2 OF 2)

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 03/16/2017

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **970083**
(8) STRUCTURE NUMBER(FEDERAL) 000000001950083
(5) INVENTORY ROUTE (ON/UNDER) - ON 31013780
(2) STATE HIGHWAY DEPARTMENT DISTRICT 2
(3) COUNTY CODE 195 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - BLOOMERY SWAMP
(7) FACILITY CARRIED SR1378
(9) LOCATION 0.1 MI. N. OF JCT. SR1302
(11)MILEPOINT 0
(16)LAT 35° 46' 26.77" (17)LONG 78° 1' 58.65"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Wood or Timber
TYPE - Stringer Mutlibeam or Girder CODE 702
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 2
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 1 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

AGE AND SERVICE

(27) YEAR BUILT 1956
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Highway
UNDER - Waterway CODE 15
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 0
(29) AVERAGE DAILY TRAFFIC 100
(30) YEAR OF ADT 2000 (109) TRUCK ADT PCT %
(19) BYPASS OR DETOUR LENGTH 4 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 17 FT
(49) STRUCTURE LENGTH 36 FT
(50)CURB OR SIDEWALK: LEFT .2085 FT RIGHT .2085 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 24 FT
(52) DECK WIDTH OUT TO OUT 25.738 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 19 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 0° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
(56) MIN LAT UNDERCLEAR LT REF - 000 FT

NAVIGATION DATA

(38) NAVIGATION CONTROL - No Navigational Control CODE 0
(111)PIER PROTECTION - CODE
(39) NAVIGATION VERTICAL CLEARANCE 0
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

SUFFICIENCY RATING = 39.9
STATUS = Structurally Deficient

CLASSIFICATION — CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is not on NHS 0
(26) FUNCTIONAL CLASS - Local 09
(100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
(101)PARALLEL STRUCTURE - No Parallel Structure N
(102)DIRECTION OF TRAFFIC - 2-way Traffic 2
(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions T
(110)DESIGNATED NATIONAL NETWORK - Not on the National Network 0
(20) TOLL On Free Road 3
(31) MAINTAIN - State Highway Agency 01
(22) OWNER - State Highway Agency 01
(37) HISTORICAL SIGNIFICANCE - Not Eligible 5

CONDITION — CODE

(58) DECK 5
(59) SUPERSTRUCTURE 5
(60) SUBSTRUCTURE 3
(61) CHANNEL & CHANNEL PROTECTION 6
(62) CULVERTS N

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD Unknown 0
(63) OPERATING RATING METHOD - Allowable Stress 2
(64) OPERATING RATING - HS-1 1
(65) INVENTORY RATING METHOD - Allowable Stress 2
(66) INVENTORY RATING - HS-1 1
(70) BRIDGE POSTING - Posting Required 0
(41) STRUCTURE OPEN, POSTED ,OR CLOSED P
DESCRIPTION - Posted for Load

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 3
(68) DECK GEOMETRY 6
(69) UNDERCLEARANCES,VERTI & HORIZ N
(71) WATERWAY ADEQUACY 7
(72) APPROACH ROADWAY ALIGNMENT 6
(36) TRAFFIC SAFETY FEATURES 0000
(113)SCOUR CRITICAL BRIDGES U

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 200 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 07/13/2016
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - NO B)
C) OTHER SPECIAL INSP NO C)
SCOUR

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 03/16/2017

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
WILSON	4	2	970083	36 FEET

ROUTE CARRIED : SR1378

FEATURE INTERSECTED : BLOOMERY SWAMP

LOCATED : 0.1 MI. N. OF JCT. SR1302

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :		RAIL TYPE :	
09	NFA	NFA	100	2000	LT 241	RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1956	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	
			TAN	90	ON 2	UNDER 0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :	
VC 0	FT	HC 0	FT	9 FT	1	FT

SUPERSTRUCTURE : RC FLOOR ON TIMBER JOIST,STD BMD-10

SUBSTRUCTURE : EBTS&IBT:TIMBER CAP/TIMBER PILES @ 8'CTS.

SPANS : 2@17'-9"

BEAMS OR GIRDERS : 19LINES6X12TIMBER JOIST @ VAR.CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5RC/NO AWS		25.738 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
24 FT	25.417 FT	LT	.2085 FT	RT	.2085 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Int Joist (Treated)	SV 17	TTST 25	DATE 09/17/2008		

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 970083 County WILSON Date: 07/13/2016

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3256	Repair Overhead Signs	EA	1	MISSING POSTING SIGN SOUTHEAST CORNER	
3304	Maintain/Replace Timber Superstructure Components	LF	1	Span 1 Beam 11: DECAY 2 1/2 IN. DEEP X 3 1/2 IN. X 2 IN. HEIGHT ON THE END OF BEAM OVER BENT 1.	
3304	Maintain/Replace Timber Superstructure Components	LF	1	Span 1 Beam 9: DECAY 3 IN. X 4 1/2 IN. X 2 IN. HEIGHT AT THE END OF BEAM OVER END BENT 1.	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 970083 County WILSON

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3256	Repair Overhead Signs	1 EA

Location:
Beams and Girders Bent/Span No. 1 SOUTH END RIGHT SIDE

Priority Level	Status
Critical Finding	Division Maintenance Work Completed

Submitted Date:	Submitted By:	Assisted By:
09/07/2016	RICHARD P. STEIGER JR.	CHRISTOPHER M. LEE

Details
MISSING POSTING SIGN SOUTHEAST CORNER

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	1 LF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification Received

Submitted Date:	Submitted By:	Assisted By:
07/13/2016	RICHARD P. STEIGER JR.	

Details
Span 1 Beam 11: DECAY 2 1/2 IN. DEEP X 3 1/2 IN. X 2 IN. HEIGHT ON THE END OF BEAM OVER BENT 1.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 970083 County WILSON

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	1 LF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Maintenance Work Completed

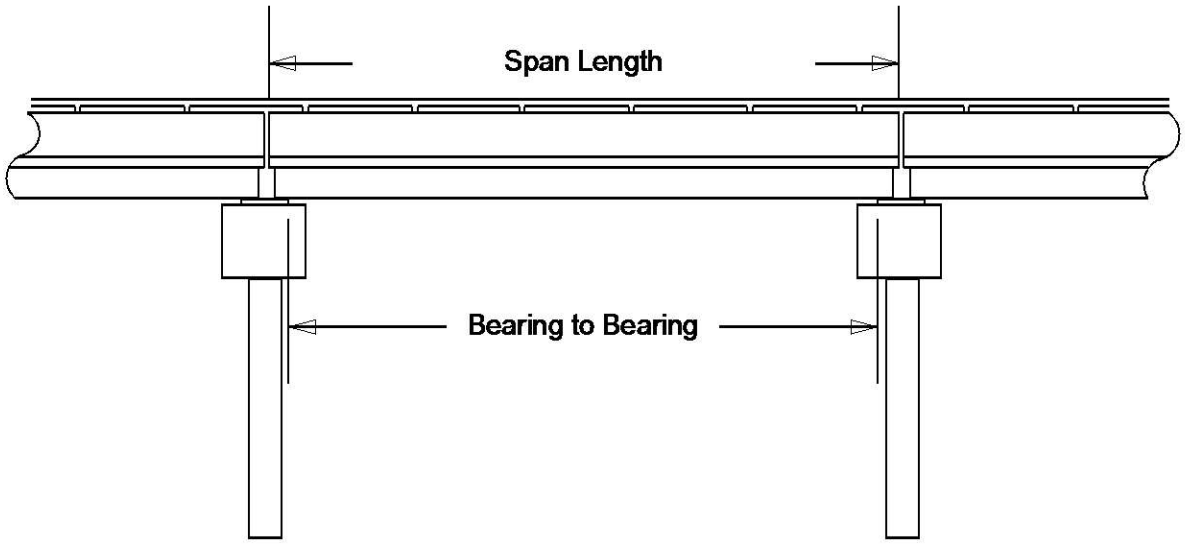
Submitted Date:	Submitted By:	Assisted By:
07/13/2016	RICHARD P. STEIGER JR.	

Details
Span 1 Beam 9: DECAY 3 IN. X 4 1/2 IN. X 2 IN. HEIGHT AT THE END OF BEAM OVER END BENT 1.

MISSING POSTING SIGN SOUTH END

Structure Data Worksheet

County: WILSON **Structure No:** 970083 **Date:** 07/13/2016 **Inspected By:** RPSJR



Span No	Span Length	Bearing to Bearing	Comments
1	17.750	16.750	
2	17.750	16.750	NBIS BRIDGE LENGTH: 33.000'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 970083 **County:** WILSON **Date:** 07/13/2016 **By:** RPSJR

Record sounding from top of rail. Other location if needed:

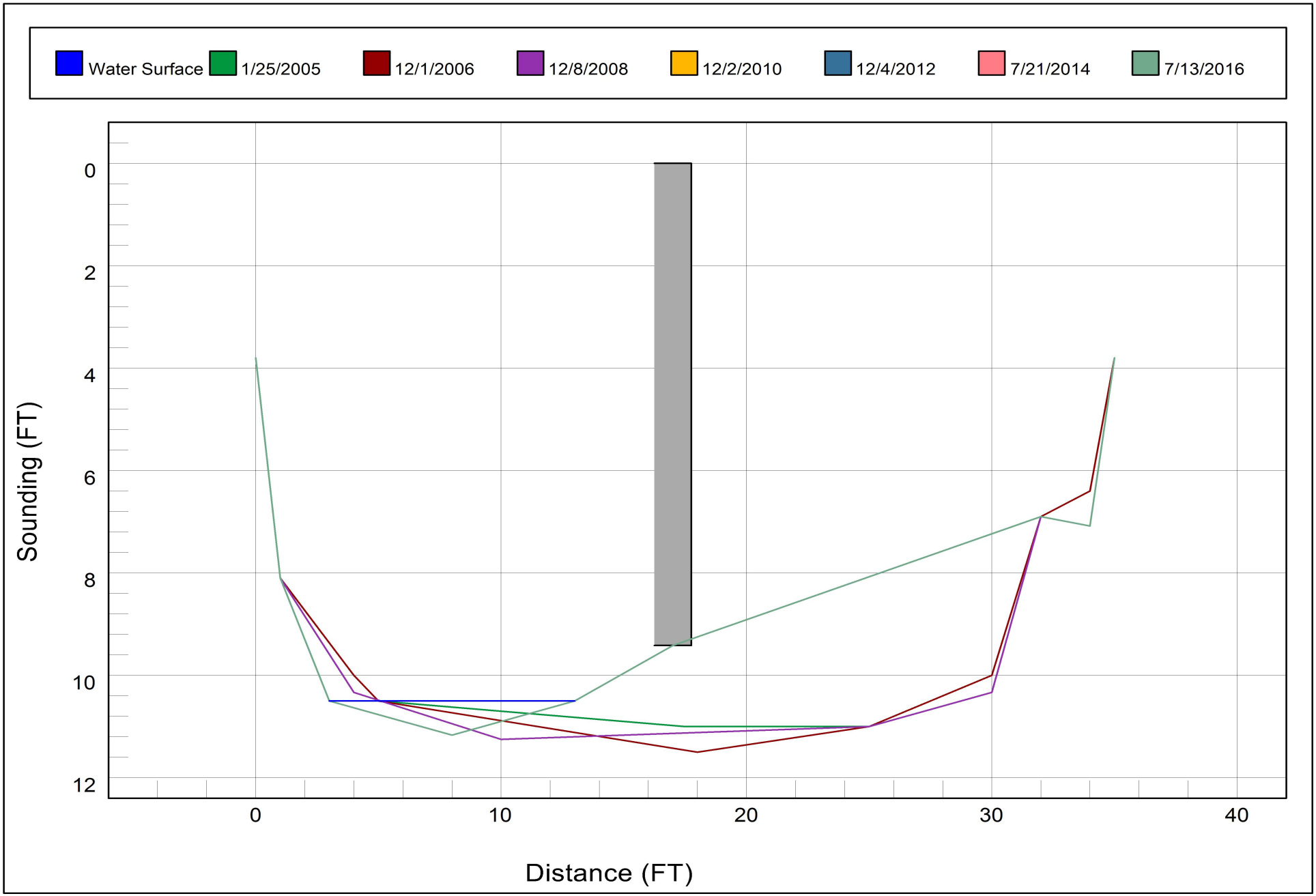
Distance from Highwater Mark to top of rail: **Location of Highwater Mark:**

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3.8	Top of Cap			
1	8.1	GROUND AT CAP	1	7.083	
3	10.5	Water Surface/Water Edge (WSWE)			
8	11.167				
13	10.5	Water Surface/Water Edge (WSWE)			
17	9.417	Bent	17	9.917	
32	6.9				
34	7.083	GROUND AT CAP	34	6.75	
35	3.8	Top of Cap			

Bridge: 970083 County WILSON Date: 07/13/2016

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

Roadway	19ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

CHECKED BY: RPS & CML 07/13/2016

Title	**Description**		
APPROACH ROADWAY	LOOKING NORTH		
Bridge No: 970083	**Drawn By:** ado	**Date:** 12/08/2008	**File Name:** S0010000146

Bridge Inspection Field Sketch

Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26 ft.	0.958 ft.	1 ft.	1 ft.	1 ft.	.750 ft.	.750 ft.

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

Sill Information			Material
Length	Width	Height	CHECKED BY: RPS & CML 07/13/2016

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8.0 ft.	.917 ft.			Vertical	Yes	No	No	No
2	Timber	8.0 ft.	.917 ft.			Vertical	Yes	No	No	No
3	Timber	8.0 ft.	.917 ft.			Vertical	Yes	No	No	No
4	Timber		.917 ft.			Vertical	Yes	No	No	No

Bent/Abutment #: 1 Similar Bents: 2

Title

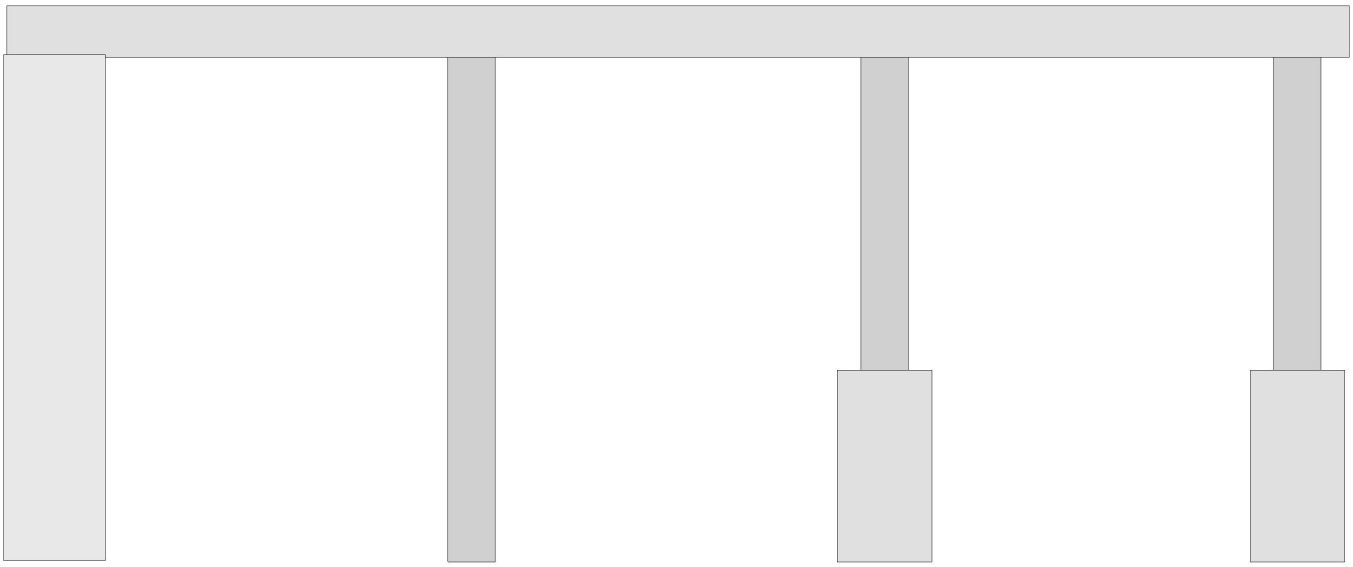
ABUTMENT 1

Description

ABUTMENT 2 SIMILAR

Bridge No: 970083 **Drawn By:** ado **Date:** 12/08/2008 **File Name:** S0010000172

Bridge Inspection Field Sketch



Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26 ft.	0.958 ft.	1 ft.	1 ft.	1 ft.	.833 ft.	.750 ft.

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

Sill Information			Material
Length	Width	Height	CHECKED BY: RPS & CML 07/13/2016

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8.0 ft.	.917 ft.			Vertical	Yes	No	No	Yes
2	Timber	8.0 ft.	.917 ft.			Vertical	Yes	No	No	No
3	Timber	8.0 ft.	.917 ft.			Vertical	Yes	No	No	Yes
4	Timber		.917 ft.			Vertical	Yes	No	No	Yes

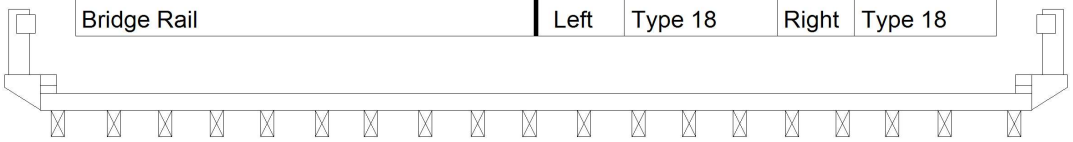
Bent/Abutment #: 1 Similar Bents:

Title	**Description**
PILE SPACINGS	4 TIMBER PILES

Bridge No: 970083	**Drawn By:** ado	**Date:** 12/08/2008	**File Name:** S0010000173

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.738ft	Between Rails				25.417ft
Clear Roadway	24ft	Wearing Surface				
Median Width		Median Height				
Curb Height		Left	0.75ft	Right	0.75ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left		Right		
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right	2.417ft	
Bridge Rail		Left	Type 18	Right	Type 18	



Measurements for Span #	1		
Deck Thickness	0.417	Left Overhang	0.458
Top of Rail to Bottom of Beam	3.833	Right Overhang	0.458

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.458ft	NEW JOISTS TREATED .458 ft. X .958 ft.
2	Timber (Rectangular)	1.333ft	TREATED 458 ft. X .958 ft.
3	Timber (Rectangular)	1.333ft	TREATED 458 ft. X .958 ft.
4	Timber (Rectangular)	1.312ft	TREATED 458 ft. X .958 ft.
5	Timber (Rectangular)	1.417ft	TREATED 458 ft. X .958 ft.
6	Timber (Rectangular)	1.271ft	CREOSOTE .479 ft. X .958
7	Timber (Rectangular)	1.417ft	CREOSOTE .479 ft. X .958
8	Timber (Rectangular)	1.354ft	CREOSOTE .479 ft. X .958
9	Timber (Rectangular)	1.344ft	CREOSOTE .479 ft. X .958
10	Timber (Rectangular)	1.417ft	CREOSOTE .479 ft. X .958
11	Timber (Rectangular)	1.417ft	CREOSOTE .479 ft. X .958
12	Timber (Rectangular)	1.312ft	TREATED .458 ft. X .958 ft.
13	Timber (Rectangular)	1.312ft	TREATED .458 ft. X .958 ft.
14	Timber (Rectangular)	1.354ft	CREOSOTE .479 ft. X .958 ft.
15	Timber (Rectangular)	1.312ft	CREOSOTE .479 ft. X .958 ft.
16	Timber (Rectangular)	1.292ft	TREATED .458 ft. X .958 ft.
17	Timber (Rectangular)	1.354ft	CREOSOTE .479 ft. X .958 ft.
18	Timber (Rectangular)	1.812ft	TREATED .458 ft. X .958 ft.
19	Timber (Rectangular)	ft	CREOSOTE .479 ft. X .958 ft.

CHECKED BY: RPS & CML 07/13/2016

Title

TYPICAL SECTION SPAN 1

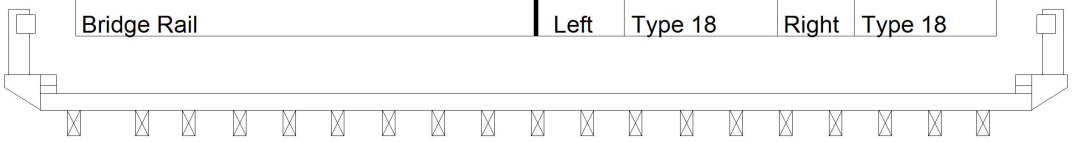
Description

19 LINES TIMBER JOISTS

Bridge No: 970083 **Drawn By:** ado **Date:** 12/08/2008 **File Name:** S0010000147

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.738ft	Between Rails				25.417ft
Clear Roadway	24ft	Wearing Surface				
Median Width		Median Height				
Curb Height		Left	0.75ft	Right	0.75ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left		Right		
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right	2.417ft	
Bridge Rail		Left	Type 18	Right	Type 18	



Measurements for Span #	2		
Deck Thickness	0.417	Left Overhang	0.458
Top of Rail to Bottom of Beam	3.833	Right Overhang	0.458

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	ft	
2	Timber (Rectangular)	1.833ft	
3	Timber (Rectangular)	1.25ft	
4	Timber (Rectangular)	1.375ft	
5	Timber (Rectangular)	1.333ft	
6	Timber (Rectangular)	1.291ft	
7	Timber (Rectangular)	1.375ft	
8	Timber (Rectangular)	1.333ft	
9	Timber (Rectangular)	1.333ft	
10	Timber (Rectangular)	1.333ft	
11	Timber (Rectangular)	1.333ft	
12	Timber (Rectangular)	1.291ft	
13	Timber (Rectangular)	1.375ft	
14	Timber (Rectangular)	1.333ft	
15	Timber (Rectangular)	1.333ft	
16	Timber (Rectangular)	1.333ft	
17	Timber (Rectangular)	1.333ft	
18	Timber (Rectangular)	1.333ft	
19	Timber (Rectangular)	1.291ft	

Title	**Description**
TYPICAL SECTION SPAN 2	19 LINES TIMBER JOIST

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
970083	RPS	11/7/2016	S0006009768

Bridge Inspection Field Sketch

BLANK

Title	Description
BLANK	BLANK

Bridge No:	Drawn By:	Date:	File Name:
970083		12/08/2008	S0006002702