



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE ISSUED
NON-CONFORMING STRUCTURE**

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: AVERY STRUCTURE NUMBER: 050047 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1316 MILE POST:

LOCATION: 1.9 MI.N.JCT.SR1317

FEATURE INTERSECTED: FLAT SPRINGS BRANCH

LATITUDE: 36° 15' 54.94" LONGITUDE: 81° 55' 7.83"

SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE: E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 6" CTS.

1 @ 16.5'

SPANS: **1 @ 16"-6**

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

PRESENT CONDITION: Fair INSPECTION DATE: 05/17/2015

POSTED SV: 10 POSTED TTST: 18

OTHER SIGNS PRESENT: (4) DELINEATORS



south approach looking north

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

INSPECTED BY
MICHAEL T. MILLS

SIGNATURE

ASSISTED BY RICARDO CORNEJO

Span Element Report

Structure Number: 050047

Inspection Date: 05/17/2015

Span Number 1

Span Length 16.5 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	330	298	32	0	0	32	3324
111		Timber Open Girder/Beam	323	300	0	6	17	23	3304
216		Timber Abutment	60	56	1	3	0	4	3346
228		Timber Pile	8	0	8	0	0	8	3344
235		Timber Pier Cap	40	0	40	0	0	40	3344
332		Timber Bridge Railing	34	0	29	4	1	34	3316
510		Wearing Surface	315	248	0	67	0	67	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 050047

Inspection Date: 05/17/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	31	Timber Deck	330	298	32	0	0	32	3324	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	17	0	13	4	0	17	3316	☐ Requested
☒ Bridge Rail	2	332	Timber Bridge Railing	17	0	16	0	1	17	3316	☒ Requested
☒ Wearing Surfaces		510	Wearing Surface	315	248	0	67	0	67	2816	☒ Requested
☒ Beam	1	111	Timber Open Girder/Beam	17	0	0	0	17	17	3304	☒ Requested
☒ Beam	2	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	17	11	0	6	0	6	3304	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 050047

Inspection Date: 05/17/2015

Span Number 1

Span	1	Deck	1	Component Name:		Timber Deck							
Element:	31	Name	Timber Deck	Qty:	330	Lvl 2:	32	Lvl 3	0	Lvl 4	0	Maint. Qty	32
Defect Description:													

32 Square Feet of Check/Shake: Penetrates 5% - 50% of the thickness of the member and not in a tension zone. board ends wet/soft with shakes at random, both ends (full length)

Span	1	Bridge Rail	1	Component Name:		Timber Rail							
Element:	332	Name	Timber Bridge Railing	Qty:	17	Lvl 2:	13	Lvl 3	4	Lvl 4	0	Maint. Qty	17
Defect Description:													

40 Square Feet of Peeling/Bubbling/Cracking: paint peeling and exposure of timber.
 17 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in a tension zone. Curb, checks (1/8 in x full length)
 4 Feet of Split/Delamination (Timber): Length equal to or greater than the member depth but does not require structural review.
 Outrigger split (4 locations)

Span	1	Bridge Rail	2	Component Name:				Timber Rail					
Element:	332	Name	Timber Bridge Railing	Qty:	17	Lvl 2:	16	Lvl 3	0	Lvl 4	1	Maint. Qty	17
Defect Description:													

40 Square Feet of Peeling/Bubbling/Cracking: paint peeling and exposure of timber.
 17 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in a tension zone. Curb, checks (1/8 in x full length)
 1 Feet of Connection: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. north end post single point attachment, includes delineator

Span	1	Wearing Surfaces			Component Name:		Asphalt Wearing Surface							
Element:	510	Name	Wearing Surface		Qty:	315	Lvl 2:	0	Lvl 3	67	Lvl 4	0	Maint. Qty	67
Defect Description:														

rutting in both lanes (up to 4in)
 5 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall 1 in. deep or greater or 6 in. diameter or greater. Patched area that is unsound or showing distress. Full depth pothole.. East shoulder at north approach, settlement (4in)
 dropoff at both curbs (6in x full length)
 30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.. Left shoulder Multiple longitudinal cracks (1/4 in x full length)

Span	1	Beam	1	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	17	Lvl 2:	0	Lvl 3	0	Lvl 4	17	Maint. Qty	17
Defect Description:													

17 Feet of Split/Delamination (Timber): The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. Split at mid height (full length)
 2 Feet of Decay/Section Loss: Affects less than 10% of the member section. at end bent 1, decay (2ft x 3in)

Span	1	Beam	19	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	17	Lvl 2:	0	Lvl 3	6	Lvl 4	0	Maint. Qty	6
Defect Description:													

6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. at midspan, decay (6ft x 2in x 1in) on mid-height

Substructure Detailed Element Quantities

Structure Number: 050047

Inspection Date: 05/17/2015

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	216	Timber Abutment	30	27	0	3	0	3	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	20	0	20	0	0	20	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	216	Timber Abutment	30	29	1	0	0	1	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	20	0	20	0	0	20	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 050047

Inspection Date: 05/17/2015

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 30 **Lvl 2:** 0 **Lvl 3** 3 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

3 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. timber board at east end, decay (3ft x 8in x 1.5in)

End Bent 1	Row 1	Caps	1
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Element: 235 **Name** Timber Pier Cap **Qty:** 20 **Lvl 2:** 20 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 20

Defect Description:

20 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the memeber and not in a tension zone. checks (up to 1/16in) at random

End Bent 1	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

End Bent 1	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

End Bent 1	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

End Bent 1	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

End Bent 2	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 30 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Feet of Decay/Section Loss: Affects less than 10% of the member section. bottom board at east end, decay (1ft x 1ft x 1in)

End Bent 2	Row 1	Caps	1
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Element: 235 **Name** Timber Pier Cap **Qty:** 20 **Lvl 2:** 20 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 20

Defect Description:

1 Feet of Decay/Section Loss: Affects less than 10% of the member section. left end, decay (4in x 3in)
20 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the memeber and not in a tension zone. checks (up to 1/16in) at random

End Bent 2	Row 1	Piles and Columns	1
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Structure Number: 050047

Inspection Date: 05/17/2015

Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 1**Defect Description:**

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

End Bent 2	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 1**Defect Description:**

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

End Bent 2	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 1**Defect Description:**

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

End Bent 2	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 1**Defect Description:**

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. checks (up to 1/16in) at random

National Bridge and NC Inspection Items

Structure Number: 050047

Inspection Date: 05/17/2015

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	6
Item 61: Channel and Channel Protection	0 - 9 , N	6
Item 62: Culvert	0 - 9 , 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	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	F	60	3352
Wingwall	G, F, P, or C	F	0	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		U		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	10		

Note: If NC SMU Inspection 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	5
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 050047

Inspection Date: 05/17/2015

Item	Channel and Channel Protection - Item 61	Grade	6	Maint Code		Qty.	0
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Details streamflow directed towards end bent 2

Item	Slope Protection	Grade	F	Maint Code	3352	Qty.	60
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Details end bent 2 slope protection undermined (8in deep x 2ft x 15 ft) (similar end bent 1)

Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	0
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Details checks (up to 1/16in) throughout



Span 1 Wearing Surface: rutting in both lanes (up to 4in)



Span 1 Wearing Surface: 5 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Spall 1 in. deep or greater or 6 in. diameter or greater. Patched area that is unsound or showing distress. Full depth pothole. East shoulder at north approach, settlement (4in)



Span 1 Right Bridge Rail: 40 Square Feet of Peeling/Bubbling/Cracking: paint peeling and exposure of timber.



Span 1 Wearing Surface: dropoff at both curbs (6in x full length)



Span 1 Wearing Surface: 30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.. Left shoulder Multiple longitudinal cracks (1/4 in x full length)



Span 1 Right Bridge Rail: 17 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in a tension zone. Curb, checks (1/8 in x full length)



Span 1 Right Bridge Rail: 1 Feet of Connection: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. north end post single point attachment, includes delineator



Span 1 Deck: 32 Square Feet of Check/Shake: Penetrates 5% - 50% of the thickness of the member and not in a tension zone. board ends wet/soft with shakes at random, both ends (full length)



Span 1 Beam 1: 17 Feet of Split/Delamination (Timber): The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. Split at mid height (full length)



end bent 2 slope protection undermined (8in deep x 2ft x 15 ft)



Span 1 Left Bridge Rail: 4 Feet of Split/Delamination (Timber): Length equal to or greater than the member depth but does not require structural review. Outrigger split (4 locations)



End Bent 2 Cap : 1 Feet of Decay/Section Loss: Affects less than 10% of the member section. left end, decay (4in x 3in)



Span 1 Beam 1: 2 Feet of Decay/Section Loss: Affects less than 10% of the member section. at end bent 1, decay (2ft x 3in)



End Bent 1 Abutment/Backwall : 3 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. timber board at east end, decay (3ft x 8in x 1.5in)



Span 1 Beam 19: 6 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. at midspan, decay (6ft x 2in x 1in) on mid-height



End Bent 2 Abutment/Backwall : 1 Feet of Decay/Section Loss: Affects less than 10% of the member section. bottom board at east end, decay (1ft x 1ft x 1in)



streamflow directed towards end bent 2



west bridge rail



asphalt over end bent 1



asphalt wearing surface



asphalt over end bent 2



southwest streambank



northwest streambank



looking upstream, west



northeast streambank



southeast streambank



looking downstream, east



southwest wingwall



end bent 1



end bent 2



underside of deck



southeast wingwall



northeast wingwall



rail post attachment



bridge posting sign



east bridge rail



north approach looking south



downstream profile, looking west



upstream profile, looking east



south approach looking north



south approach looking north

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

Run Date: 09/18/2015

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	050047		SUFFICIENCY RATING =	47.9
(8) STRUCTURE NUMBER(FEDERAL)		000000000110047		STATUS =	Functionally Obsolete
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013160			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2		CLASSIFICATION	CODE
(3) COUNTY CODE 11	(4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -	NO
(6) FEATURE INTERSECTED -	FLAT SPRINGS BRANCH			(104)HIGHWAY SYSTEM	Is not on NHS 0
(7) FACILITY CARRIED	SR1316			(26) FUNCTIONAL CLASS -	Local 09
(9) LOCATION	1.9 MI.N.JCT.SR1317			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route 0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure N
(16)LAT 36° 15' 54.94"	(17)LONG 81° 55' 7.83"			(102)DIRECTION OF TRAFFIC -	2-way Traffic 2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions T
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network 0
				(20) TOLL	On Free Road 3
				(31) MAINTAIN -	State Highway Agency 01
				(22) OWNER -	State Highway Agency 01
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible 5
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN:	Wood or Timber				
TYPE -	Stringer Mutlibeam or Girder	CODE	702		
(44) STRUCTURE TYPE APPR :				CONDITION	CODE
TYPE -		CODE	000	(58) DECK	6
(45) NUMBER OF SPANS IN MAIN UNIT			1	(59) SUPERSTRUCTURE	6
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE	6
(107)DECK STRUCTURE TYPE -	8	CODE		(61) CHANNEL & CHANNEL PROTECTION	6
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS	N
(A) TYPE OF WEARING SURFACE -		CODE			
(B) TYPE OF MEMBRANE -		CODE		LOAD RATING AND POSTING	CODE
(C) TYPE OF DECK PROTECTION -		CODE		(31) DESIGN LOAD	Unknown 0
				(63) OPERATING RATING METHOD -	Allowable Stress 2
				(64) OPERATING RATING -	HS-11 20
				(65) INVENTORY RATING METHOD -	Allowable Stress 2
				(66) INVENTORY RATING -	HS-7 13
				(70) BRIDGE POSTING -	Posting Required 0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P
				DESCRIPTION -	Posted for Load
AGE AND SERVICE					
(27) YEAR BUILT			1964	APPRAISAL	CODE
(106)YEAR RECONSTRUCTED				(67) STRUCTURAL EVALUATION	4
(42) TYPE OF SERVICE : ON -	Highway			(68) DECK GEOMETRY	3
UNDER -	Waterway	CODE	15	(69) UNDERCLEARANCES,VERTI & HORIZ	N
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		0	(71) WATERWAY ADEQUACY	7
(29) AVERAGE DAILY TRAFFIC			240	(72) APPROACH ROADWAY ALIGNMENT	6
(30) YEAR OF ADT	2011	(109) TRUCK ADT PCT	6%	(36) TRAFFIC SAFETY FEATURES	0000
(19) BYPASS OR DETOUR LENGTH			10 MI	(113)SCOUR CRITICAL BRIDGES	U
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN			15 FT	PROPOSED IMPROVEMENTS	
(49) STRUCTURE LENGTH			17 FT	(75) TYPE OF WORK -	CODE
(50)CURB OR SIDEWALK: LEFT	.3 FT RIGHT		.3 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			19.083 FT	(94) BRIDGE IMPROVEMENT COST	
(52) DECK WIDTH OUT TO OUT			20 FT	(95) ROADWAY IMPROVEMENT COST	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			17 FT	(96) TOTAL PROJECT COST	
(33) BRIDGE MEDIAN -	No Median	CODE	0	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(34) SKEW	0°	(35) STRUCTURE FLARED	0	(114)FUTURE ADT	480
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	(115) YEAR FUTURE ADT	2025
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			19.083 FT		
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	INSPECTIONS	
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT	(90) INSPECTION DATE	05/17/2015
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT	(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
(56) MIN LAT UNDERCLEAR LT REF -			000 FT	A) FRACTURE CRIT DETAIL -	NO A)
				B) UNDERWATER INSP -	NO B)
				C) OTHER SPECIAL INSP	NO C)
				SCOUR	
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		

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 09/18/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
AVERY	11	2	050047	17	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1316	FLAT SPRINGS BRANCH

LOCATED :	BRIDGE NAME :	CITY :
1.9 MI.N.JCT.SR1317		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	240 2011	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1964	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		8 FT		1		FT

SUPERSTRUCTURE :	TIMBER FLOOR ON TIMBER JOISTS
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SUBSTRUCTURE :	E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 6' CTS.
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SPANS :	1 @ 16'-6
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BEAMS OR GIRDERS :	1 LN.TRIPLE,7 LNS.DOUBLE.& 2 LNS.6X12 TIM.JSTS.
--------------------	---

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/7 AWS		20 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.083 FT	19.75 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-7	HS-11	IntJoists	SV 10	18	06/13/2011

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 050047

County AVERY

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 2816	Asphalt Surface Repair or Replacement	SY	4	SPAN 1 ASPHALT WEARING SURFACE, DROPOFF AT BOTH CURBS (6IN X FULL LENGTH)	
 3304	Maintain/Replace Timber Superstructure Components	LF	17	SPAN 1 BEAM 1 MID HEIGHT AT MIDSPAN, SPLIT (FULL LENGTH X UP TO 1/4IN)	
 3316	Maint to Timber Handrail	LF	1	SPAN 1 RIGHT BRIDGE RAIL NORTH END POST SINGLE POINT ATTACHMENT INCLUDES DELINEATOR	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 050047

County AVERY

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

MMS Code	MMS Description	Quantity
2816	Asphalt Surface Repair or Replacement	4 SY
Location:		
Wearing Surface Bent/Span No. 1 ASPHALT WEARING SURFACE		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
05/19/2015	MICHAEL T. MILLS	RICARDO CORNEJO
Details		
SPAN 1 ASPHALT WEARING SURFACE, DROPOFF AT BOTH CURBS (6IN X FULL LENGTH)		

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	17 LF
Location:		
Beams and Girders Bent/Span No. 1 BEAM 1		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
05/19/2015	MICHAEL T. MILLS	RICARDO CORNEJO
Details		
SPAN 1 BEAM 1 MID HEIGHT AT MIDSPAN, SPLIT (FULL LENGTH X UP TO 1/4IN)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 050047

County AVERY

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

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	1 LF
Location:		
Right Rail	Bent/Span No. 1	END POST
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
05/19/2015	MICHAEL T. MILLS	RICARDO CORNEJO
Details		
SPAN 1 RIGHT BRIDGE RAIL NORTH END POST SINGLE POINT ATTACHMENT INCLUDES DELINEATOR		



SPAN 1 WEARING SURFACE, DROPOFF AT BOTH CURBS (6IN X FULL LENGTH)



SPAN 1 RIGHT BRIDGE RAIL NORTH END POST SINGLE POINT ATTACHMENT INCLUDES DELINEATOR, DETACHED

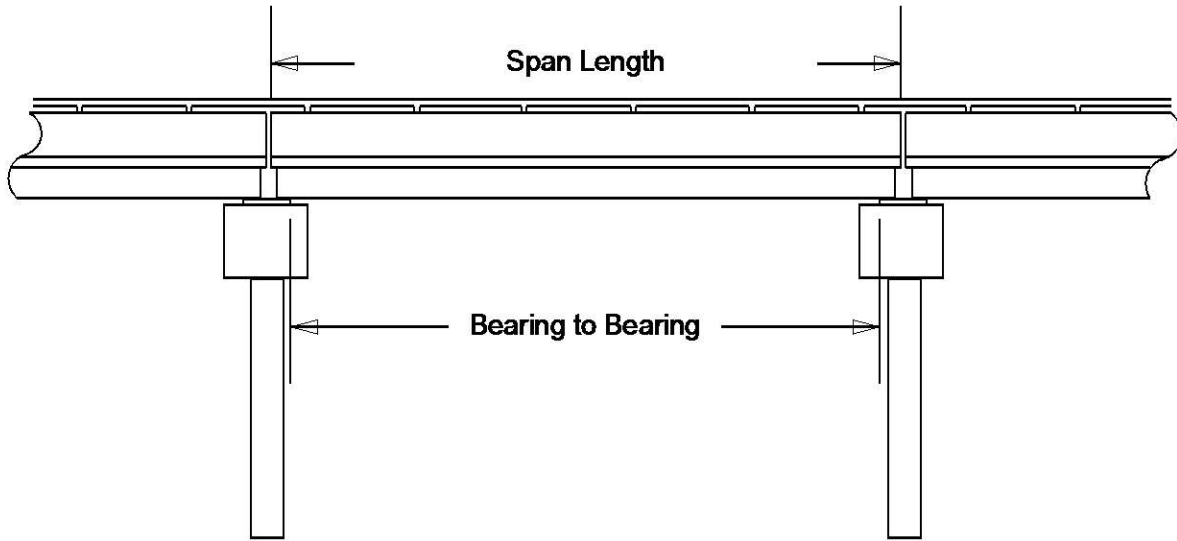


SPAN 1 BEAM 1 MID HEIGHT AT MIDSPAN, SPLIT (FULL LENGTH X UP TO 1/4IN)

Structure Data Worksheet

Spans

County: AVERY Structure No: 050047 Date: Inspected By: MTM



Span No	Span Length	Bearing to Bearing	Comments
1	16.5'	15.167'	NBIS LENGTH = 14.333'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 050047 County: AVERY Date: By: MTM

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

Distance from Highwater Mark to top of rail: Location of Highwater Mark: NONE FOUND

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3	FILL FACE			
0.25	3	TOP OF BACKWALL			
0.26	4.2	Top of Cap			
0.27	6.5	GROUND AT ABUTMENT 1	0.27	5.8	GROUND AT ABUTMENT 1
4	9.4	Water Surface/Water Edge (WSWE)			
8	10.1	STREAMBED			
13	9.6	Water Surface/Water Edge (WSWE)			
16.24	6.5	GROUND AT ABUTMENT 2	16.24	6.5	GROUND AT ABUTMENT 2
16.249	4.2	Top of Cap			
16.25	3	TOP OF BACKWALL			
16.5	3	FILL FACE			

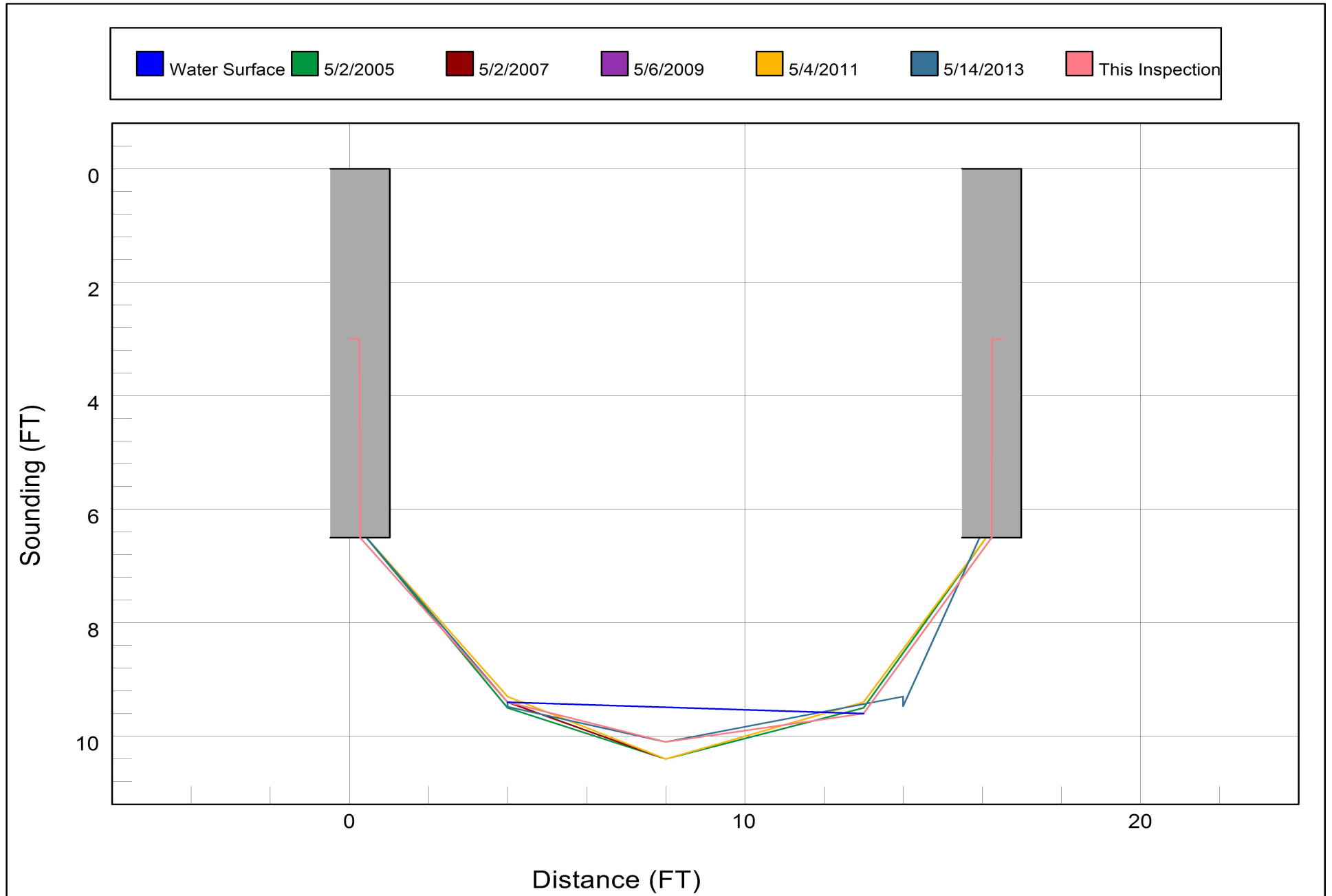
Bridge: 050047

County AVERY

Date:

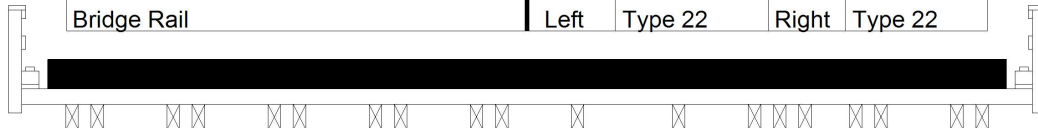
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

Deck Width/Out to Out	20ft	Between Rails	19.750ft
Clear Roadway	19.083ft	Wearing Surface	0.583ft
Median Width		Median Height	
Curb Height		Left 0.25ft	Right 0.25ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left 0.479ft	Right 0.479ft
Top of Rail to Deck/Wearing Surface		Left 2.333ft	Right 2.333ft
Bridge Rail		Left Type 22	Right Type 22



6" X 11-3/4"

Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	1
Top of Rail to Bottom of Beam	4.250	Right Overhang	1

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	.5ft	
2	Timber (Rectangular)	1.5ft	ADDED
3	Timber (Rectangular)	.5ft	
4	Timber (Rectangular)	1.5ft	ADDED
5	Timber (Rectangular)	.5ft	
6	Timber (Rectangular)	1.5ft	ADDED
7	Timber (Rectangular)	.5ft	
8	Timber (Rectangular)	1.5ft	ADDED
9	Timber (Rectangular)	.5ft	
10	Timber (Rectangular)	1.5ft	ADDED
11	Timber (Rectangular)	2ft	
12	Timber (Rectangular)	1.5ft	
13	Timber (Rectangular)	.5ft	ADDED
14	Timber (Rectangular)	.5ft	
15	Timber (Rectangular)	1.0ft	ADDED
16	Timber (Rectangular)	.5ft	ADDED
17	Timber (Rectangular)	1.5ft	
18	Timber (Rectangular)	.5ft	ADDED
19	Timber (Rectangular)	ft	

NOTE: BEAMS 2, 4, 6, 8, 10, 13, 15, 16, AND 18 HAVE (2IN NOTCH) FOR SHIMS NEAR END BENTS

Title

TYPICAL SECTION SKETCH

Description

DATA WORKSHEET

Bridge No: 050047

Drawn By: R. CORNEJO

Date: 05/17/2015

File Name: S0126000005

Bridge Inspection Field Sketch



Roadway	17ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

NOTE: MEASUREMENTS TAKEN AT APPROXIMATELY 40FT NORTH OF BRIDGE

Title
APPROACH ROADWAY

Description
DATA WORKSHEET

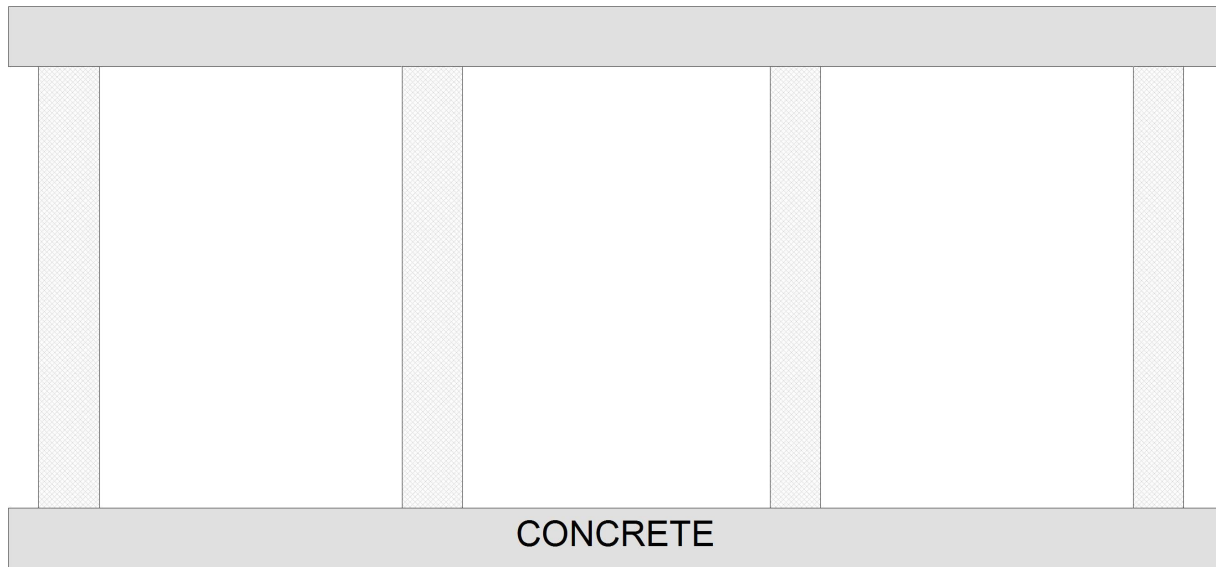
Bridge No: 050047

Drawn By: R. CORNEJO

Date: 05/17/2015

File Name: S0130000010

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.				
20.000 ft.	.833 ft.	1.000 ft.	1.000 ft.	1.000 ft.	1.000 ft.	1.000 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height	NOTE: ALL TIMBER PILES ON END BENT 2 ARE 10" X 10"							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	1 ft.	0.833 ft.		Vertical	No	No	No	No
2	Timber	6 ft.	1 ft.	0.833 ft.		Vertical	No	No	No	No
3	Timber	6 ft.	0.833 ft.	0.833 ft.		Vertical	No	No	No	No
4	Timber		0.833 ft.	0.833 ft.		Vertical	No	No	No	No
Bent/Abutment #: 1			Similar Bents: 2							

Title		Description	
END BENT 1 SKETCH		DATA WORKSHEET	
Bridge No: 050047	Drawn By: R. CORNEJO	Date: 05/17/2015	File Name: S0130000011