NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE ISSUED
SIGN NOTICE ISSUED
SKETCHES UPDATED
TEMPORARY REPAIRS

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: ASHE STRUCTURE NUMBER: 040177 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1181 MILE POST:

LOCATION: .1 MI.W.JCT.SR1182

FEATURE INTERSECTED: BEAVER CREEK

LATITUDE: 36° 19' 55.12" LONGITUDE: 81° 25' 43.13"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:TIMBER CAPS/TIMBER POST&CONCRETE SILLS @ VAR. CENTERS

1 @ 50.5'
SPANS: 1 @ 50'-6

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

PRESENT CONDITION: Fair INSPECTION DATE: 11/03/2015

POSTED SV: 13 POSTED TTST: 13

OTHER SIGNS PRESENT: FOUR (4) DELINEATORS



west approach looking east

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

INSPECTED BY	SIGNATURE	ASSISTED BY
NICHOLAS PIERCE	N Pierce	SWETHA NATARAJAN

BRIDGE I & A FORM 1(97) AA SHEET 1 AA

BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: 040177 COUNTY: ASHE DATE: 3/28/2008

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE TO KEEP THE BRIDGE OPEN :

	CODE	BY
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	4	TSE 7/8/08

S I & A ITEM 64 OPERATING RATING HS ~~0~~ 1 BY: FK

S I & A ITEM 66 - INVENTORY RATING HS ~~0~~ 1 BY: FK

COMMENTS

TEMPORARY REPAIRS:SOME OF THE POSTS ARE SUPPLIMENTED AT BOTH THE ABUTMENTS. REMAIN TEMP -TMS 12/16/15

Revised 11/7/2006

Span Element Report

Structure Number: 040177 Inspection Date: 11/03/2015

Span Number 1 Span Length 50.5 Feet Number of Beams/Girders: 8

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	998	998	0	0	0	0	3324
107		Steel Open Girder/Beam	408	0	0	408	0	408	3314
515	107	Steel Protective Coating	2200	1080	0	560	560	1120	3342
216		Timber Abutment	60	37	0	8	15	23	3346
220		Reinforced Concrete Pile Cap/Footing	50	50	0	0	0	0	3348
228		Timber Pile	15	10	0	3	2	5	3344
235		Timber Pier Cap	40	40	0	0	0	0	3344
316		Other Bearings	16	0	0	16	0	16	3334
515	316	Steel Protective Coating	16	0	0	0	16	16	3342
332		Timber Bridge Railing	102	83	0	19	0	19	3316
510		Wearing Surface	998	0	0	998	0	998	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 Quantites

Structure Number: 040177

Inspection Date: 11/03/2015

Structure Number: 040177 Inspection Date: 11/03/2015

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	998	998	0	0	0	0	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	51	50	0	1	0	1	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	51	33	0	18	0	18	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	998	0	0	998	0	998	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Beam	2	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Beam	3	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Beam	4	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Beam	5	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Beam	6	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Beam	7	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Beam	8	107	Steel Open Girder/Beam	51	0	0	51	0	51	3314	☑ Requested
Protective System		515	Steel Protective Coating	275	135	0	70	70	140	3342	
☑ Bearing Device	1	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	1	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	2	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	2	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	3	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	3	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested

Structure Number: 040177 Inspection Date: 11/03/2015

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
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	5	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	5	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	6	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	6	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	7	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	7	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	8	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	
☑ Bearing Device	8	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	3342	

Superstructure Element Defect Descriptions

Structure Number: 040177 Inspection Date: 11/03/2015

Span Number 1

Span 1	Bridge Rail	1	Component Name:	Timber Rail

Element: 332 Name Timber Bridge Railing Qty: 51 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

51 Feet. protective coating blistering/peeling (full length x full height)
1 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. end bent 2 end vertical board, decay (full height x full width x up to full depth)

Span 1	Bridge Rail	2	Component Name:	Timber Rail

Element: 332 Name Timber Bridge Railing Qty: 51 Lvl 2: 0 Lvl 3 18 Lvl 4 0 Maint. Qty 18

Defect Description:

16 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. top board (4ft) from end bent 1, decayed (16ft x 6in x 2in)
25 Feet. top rail starting from end bent 1, graffiti (25ft x 8in)
2 Feet of Split/Delamination (Timber): Length equal to or greater than the member dpeth but does not require structural review. at end bent 1, middle rail, split at end (2ft x 1/8in)

Span 1	Wearing Surfaces		Component Name:	Asphalt Wearing Surface

Element: 510 Name Wearing Surface Qty: 998 Lvl 2: 0 Lvl 3 998 Lvl 4 0 Maint. Qty 998

Defect Description:

998 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. asphalt wearing surface transverse cracks throughout (full width x 1/8in) at (6in-2ft+/-) centers

Span 1	Beam	1	Component Name:	Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51

Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1	Beam	2	Component Name:	Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51

Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1	Beam	3	Component Name:	Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51

Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1	Beam	4	Component Name:	Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51

Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg

rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Beam 5 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51
Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. top flange, corrosion with flaking steel (full length x full width) (7/16in avg rem) on exposed edges
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Beam 6 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51
Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Beam 7 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51
Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Beam 8 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 51 Lvl 2: 0 Lvl 3 51 Lvl 4 0 Maint. Qty 51
Defect Description:

51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges
51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. bottom flange, corrosion with flaking steel (full length x full width) (no measurable loss)
51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. web, corrosion with flaking steel (full length x up to 4in) (1/4in avg rem)
70 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.
70 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 1 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 1 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with

corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 2 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 2 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 3 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 3 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 4 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 4 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 5 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 5 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 6 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 6 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 7 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 7 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 8 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Span 1 Bearing Device 8 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. paint failure with corrosion
1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

Substructure Detailed Element Quantites

Structure Number: 040177 Inspection Date: 11/03/2015

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	29	0	0	1	1	3346	☑ Requested
☑ Caps	1	235	Timber Pier Cap	20	20	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	1	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☑ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	4	228	Timber Pile	1	0	0	0	1	1	3344	☐ Requested
☑ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	6	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☑ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	8	228	Timber Pile	1	0	0	0	1	1	3344	☐ Requested
☑ Piles and Columns	9	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Footing	1	220	Reinforced Concrete Pile Cap/Footing	50	50	0	0	0	0	3348	☐ 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	8	0	8	14	22	3346	☑ Requested
☑ Caps	1	235	Timber Pier Cap	20	20	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	1	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☑ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☑ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 040177 Inspection Date: 11/03/2015

End Bent 1

End Bent 1 Row 1 Abutments 1

Element: 216 Name Timber Abutment Qty: 30 Lvl 2: 0 Lvl 3 0 Lvl 4 1 Maint. Qty 1
Defect Description:

1 Feet of Decay/Section Loss: 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 pile support, decayed with (100%) section loss (6in x 6in x 6ft)

End Bent 1 Row 1 Piles and Columns 1

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

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. mid height, decay (full width x 3ft x 4in) temporary pile placed to south

End Bent 1 Row 1 Piles and Columns 4

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

1 Each of Decay/Section Loss: 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. base of pile decayed (full width x 3ft x 4in) temporary pile placed to north

End Bent 1 Row 1 Piles and Columns 6

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

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. base of pile decayed (full width x 2ft x 4in) with temporary pile placed to north

End Bent 1 Row 1 Piles and Columns 8

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

1 Each of Decay/Section Loss: 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. based of pile decayed to (5in diameter core x 2ft) temporary pile placed to north

End Bent 1 Row 1 Footing 1

Element: 220 Name Reinforced Concrete Pile Cap/F Qty: 50 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

end bent 1 at concrete footing, scour (full length of footing x up to 4.5ft)

End Bent 2 Row 1 Abutments 1

Element: 216 Name Timber Abutment Qty: 30 Lvl 2: 0 Lvl 3 8 Lvl 4 14 Maint. Qty 22
Defect Description:

6 Feet of Decay/Section Loss: 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 bottom board decayed (100%) (6ft x 8in x 3in) with fill loss
8 Feet of Decay/Section Loss: 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. 4th board from bottom between piles 2 and 4, decay (8ft x 8in x 3in) with fill loss
4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. south end, 4th board from top, decayed (4ft x up to 8in x 3in)
4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. south end top board at fill face, decay (4ft x 4in x 2in)

End Bent 2 Row 1 Piles and Columns 1

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

Defect Description:

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. west face at base, decayed (7in x 16in x 4in) with temporary pile placed to south

National Bridge and NC Inspection Items

Structure Number: 040177 Inspection Date: 11/03/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	4
Item 61: Channel and Channel Protection	0 - 9 , N	5
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	998	3376
Drainage System	G, F, P, or C	F	102	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C	F		
Wingwall	G, F, P, or C	F	18	3350
Field Scour Evaluation		L		
Drift	G, F, P, or C	F	4	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		
Estimated Remaining Life	0 - 100 Years	15		

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	Y
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: 040177 Inspection Date: 11/03/2015

Item	Channel and Channel Protection - Item 61	Grade	5	Maint Code		Qty.	0
Details	erosion with vertical cuts found on the streambanks						
Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	998
Details	north gutterline, debris (full length x 1ft x 2in) (south gutter similar)						
Item	Drainage System	Grade	F	Maint Code	3332	Qty.	102
Details	debris blocking drainage system under the bridge rails						
Item	Drift	Grade	F	Maint Code	3366	Qty.	4
Details	underside of deck, debris caught between beams (32in x 6ft x 18in)						
Item	Scour	Grade	F	Maint Code		Qty.	0
Details	end bent 1 at concrete footing, scour (full length of footing x up to 4.5ft)						
Item	Response to live load	Grade	F	Maint Code		Qty.	0
Details	deflection felt from live loads						
Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	18
Details	end bent 1 south wingwall, top 4 boards decayed (9ft x 2ft x 3in) with fill loss						



Span 1 Wearing Surface: 998 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. asphalt wearing surface transverse cracks throughout (full width x 1/8in) at (6in-2ft+/-) centers



Span 1 Right Bridge Rail: 16 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. top board (4ft) from end bent 1, decayed (16ft x 6in x 2in)



Span 1 Right Bridge Rail: 25 Feet. top rail starting from end bent 1, graffiti (25ft x 8in)



Span 1 Right Bridge Rail: 2 Feet of Split/Delamination (Timber): Length equal to or greater than the member dpeth but does not require structural review. at end bent 1, middle rail, split at end (2ft x 1/8in)



Span 1 Left Bridge Rail: 51 Feet. protective coating blistering/peeling (full length x full height)



north gutterline, debris (full length x 1ft x 2in) (south gutter similar)



Span 1 Left Bridge Rail: 1 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. end bent 2 end vertical board, decay (full height x full width x up to full depth)



End Bent 1 Abutment/Backwall : 1 Feet of Decay/Section Loss: 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 pile support, decayed with (100%) section loss (6in x 6in x 6ft)



End Bent 1 Pile 1: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. mid height, decay (full width x 3ft x 4in) temporary pile placed to south



End Bent 1 Pile 4: 1 Each of Decay/Section Loss: 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. base of pile decayed (full width x 3ft x 4in) temporary pile placed to north



End Bent 1 Pile 6: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. base of pile decayed (full width x 2ft x 4in) with temporary pile placed to north



End Bent 1 Pile 8: 1 Each of Decay/Section Loss: 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. based of pile decayed to (5in diameter core x 2ft) temporary pile placed to north



end bent 1 south wingwall, top 4 boards decayed (9ft x 2ft x 3in) with fill loss



end bent 1 at concrete footing, scour (full length of footing x up to 4.5ft)



Span 1 Beam 1: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



Span 1 Beam 2: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



Span 1 Beam 3: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



Span 1 Beam 4: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



Span 1 Beam 5: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



Span 1 Beam 6: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



Span 1 Beam 7: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



Span 1 Beam 8: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. both flanges and web, corrosion with flaking steel (full length x full width) (no measurable loss) bottom flange, (full length x up to 4in) (1/4in avg rem) web, and (full length x full width) (7/16in avg rem) top flange on exposed edges



underside of deck, debris caught between beams (32in x 6ft x 18in)



End Bent 2 Abutment/Backwall : 6 Feet of Decay/Section Loss: 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 bottom board decayed (100%) (6ft x 8in x 3in) with fill loss



End Bent 2 Pile 1: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. west face at base, decayed (7in x 16in x 4in) with temporary pile placed to south



End Bent 2 Abutment/Backwall : 8 Feet of Decay/Section Loss: 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. 4th board from bottom between piles 2 and 4, decay (8ft x 8in x 3in) with fill loss



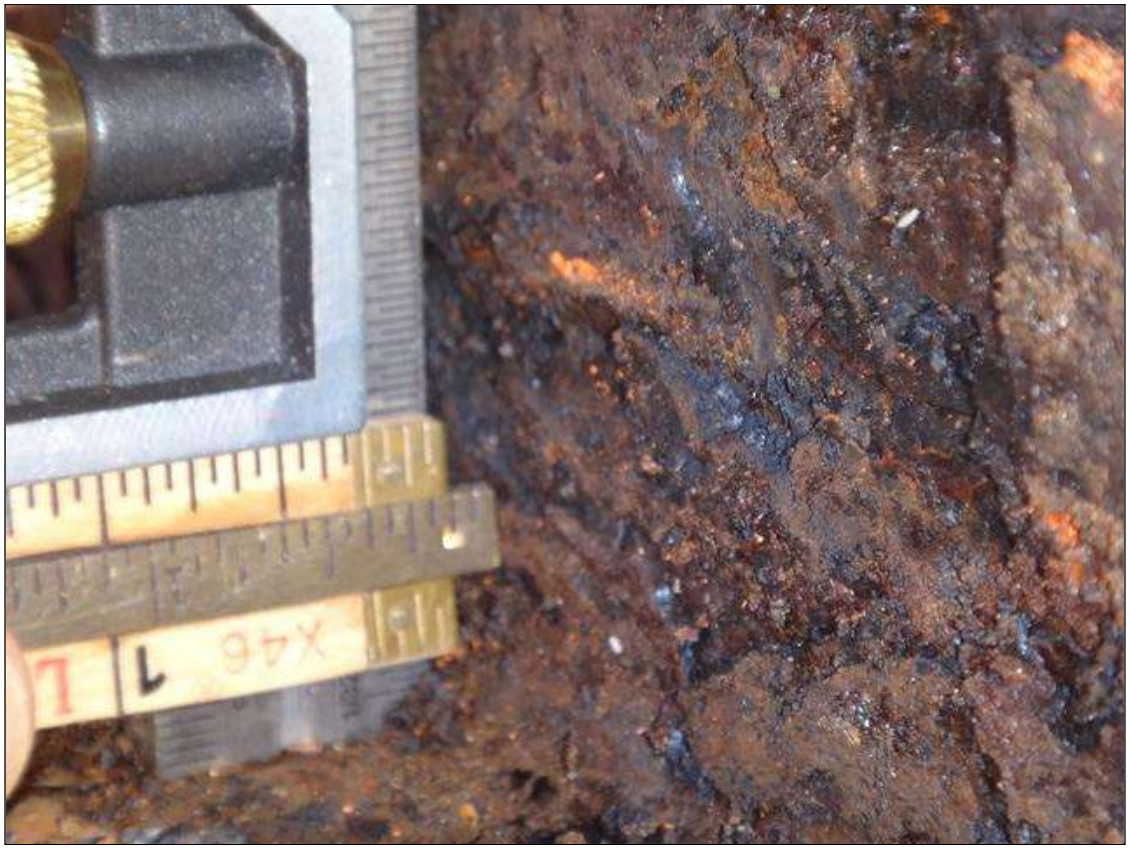
End Bent 2 Abutment/Backwall : 4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. south end, 4th board from top, decayed (4ft x up to 8in x 3in)



End Bent 2 Abutment/Backwall : 4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. south end top board at fill face, decay (4ft x 4in x 2in)



Span 1 Beam 8: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. bottom flange, corrosion with flaking steel (full length x full width) (no measurable loss)



Span 1 Beam 8: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. web, corrosion with flaking steel (full length x up to 4in) (1/4in avg rem)



Span 1 Beam 5: 51 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. top flange, corrosion with flaking steel (full length x full width) (7/16in avg rem) on exposed edges



west approach looking east



south bridge rail



north bridge rail



looking upstream, north



northeast streambank



northwest streambank



bridge posting sign



looking downstream, south



southwest streambank



southeast streambank



asphalt wearing surface



asphalt over end bent 1



asphalt over end bent 2



upstream profile, looking south



northwest wingwall



downstream profile, looking north



southwest wingwall



southeast wingwall



northeast wingwall



rail post attachment



bridge number



narrow bridge sign at west approach



narrow bridge sign at east approach



end bent 1



underside of deck



end bearing assembly



end bent 2

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 040177
(8) STRUCTURE NUMBER(FEDERAL) 000000000090177
(5) INVENTORY ROUTE (ON/UNDER) - ON 31011810
(2) STATE HIGHWAY DEPARTMENT DISTRICT 3
(3) COUNTY CODE 9 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - SOUTH BEAVER CREEK
(7) FACILITY CARRIED SR1181
(9) LOCATION .1 MI.W.JCT.SR1182
(11)MILEPOINT 0
(16)LAT 36° 19' 55.12" (17)LONG 81° 25' 43.13"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel
TYPE - Stringer Mutlibeam or Girder CODE 302
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 1
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 8 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 1961
(106)YEAR RECONSTRUCTED 1973
(42) TYPE OF SERVICE : ON - Highway
UNDER - Waterway CODE 15
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 0
(29) AVERAGE DAILY TRAFFIC 660
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 6%
(19) BYPASS OR DETOUR LENGTH 9 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 49 FT
(49) STRUCTURE LENGTH 51 FT
(50)CURB OR SIDEWALK: LEFT .4 FT RIGHT .4 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 19 FT
(52) DECK WIDTH OUT TO OUT 20 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 17 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 19 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 = 16.59
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 7
(59) SUPERSTRUCTURE 5
(60) SUBSTRUCTURE 4
(61) CHANNEL & CHANNEL PROTECTION 5
(62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD Unknown 0
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-1 1
(65) INVENTORY RATING METHOD - Load Factor 1
(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 2
(69) UNDERCLEARANCES,VERTI & HORIZ N
(71) WATERWAY ADEQUACY 7
(72) APPROACH ROADWAY ALIGNMENT 8
(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 1320 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 11/03/2015
(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: 12/07/2015

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
ASHE	11	3	040177	51 FEET

ROUTE CARRIED : SR1181

FEATURE INTERSECTED : SOUTH BEAVER CREEK

LOCATED : .1 MI.W.JCT.SR1182

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :		RAIL TYPE :	
09	NFA	NFA	660	2012	LT 227	RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1961	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	
1973	BMU		TAN	90	ON 2	UNDER 0

NAVIGATION :				HT. CRN. TO BED :		WATER DEPTH :	
VC	0 FT	HC	0 FT	15 FT		6	FT

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&CONCRETE SILLS @ VAR. CENTERS

SPANS : 1 @ 50'-6

BEAMS OR GIRDERS : 8 LINES 18 I-BEAMS @ 2'-7 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/2 AWS		20 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
19 FT	19.75 FT	LT	.4 FT	RT	.4 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :			
HS-1	HS-1	Int. Bm (Sec.Loss)6	SV 9	TTST 9	DATE	12/04/2015

SYSTEM : Secondary S.R. Route

GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 040177 County ASHE Date: 11/03/2015

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 1 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES	
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 2 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES	
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 3 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES	
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 4 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 040177 County ASHE Date: 11/03/2015

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 5 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES SPAN 1 BEAM 5 TOP FLANGE, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) ON EXPOSED EDGES	
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 6 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES	
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 7 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 040177 County ASHE Date: 11/03/2015

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	51	SPAN 1 BEAM 8 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES SPAN 1 BEAM 8 BOTTOM FLANGE, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) SPAN 1 BEAM 8 WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM)	
3316	Maint to Timber Handrail	LF	12	SPAN 1 RIGHT BRIDGE RAIL: 2 FEET OF DECAY/SECTION LOSS: NEAR MIDSPAN, TOP BOARD DECAY (2FT X FULL WIDTH X FULL DEPTH) AND DETACHED AT END SPAN 1 RIGHT BRIDGE RAIL: 10 FEET OF DECAY/SECTION LOSS: AT RAIL CONNECTIONS TO POSTS, DECAY WITH LOOSE CONNECTIONS	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 040177 County ASHE Date: 11/03/2015

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3316	Maint to Timber Handrail	LF	5	SPAN 1 LEFT BRIDGE RAIL: 2 FEET OF DECAY/SECTION LOSS: RAIL POST 1 AT BASE, DECAY (6IN X 2.5IN X 1IN) (SIMILAR AT POST 4) SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF SPLIT/DELAMINATION (TIMBER): RAIL POST 5 OUTRIGGER, SPLIT (FULL LENGTH) SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF SPLIT/DELAMINATION (TIMBER): RAIL POST 7 OUTRIGGER, SPLIT (FULL LENGTH) SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF DAMAGE: AT END BENT 1, END CAP BOARD MISSING SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF DECAY/SECTION LOSS: END BENT 2 END CAP BOARD, DECAY (FULL HEIGHT X FULL WIDTH X UP TO FULL DEPTH) AND LOOSE	
3344	Repair / Replace Timber Substructure Components	LF	1	END BENT 1 ABUTMENT NORTH END PILE SUPPORT, DECAYED WITH (100%) SECTION LOSS (6IN X 6IN X 6FT)	
3344	Repair / Replace Timber Substructure Components	LF	14	END BENT 2 ABUTMENT AT NORTH END BOTTOM BOARD, DECAYED (100%) (6FT X 8IN X 3IN) WITH FILL LOSS END BENT 2 ABUTMENT 4TH BOARD FROM BOTTOM BETWEEN PILES 2 AND 4, DECAY (8FT X 8IN X 3IN) WITH FILL LOSS	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 1

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 1 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 2

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 2 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 3

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 3 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 4

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 4 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 5

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 5 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

SPAN 1 BEAM 5 TOP FLANGE, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) ON EXPOSED EDGES

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 6

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 6 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 7

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 7 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	51 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 8

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/12/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

SPAN 1 BEAM 8 BOTH FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS) BOTTOM FLANGE, (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM) WEB, AND (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) TOP FLANGE ON EXPOSED EDGES

SPAN 1 BEAM 8 BOTTOM FLANGE, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS)

SPAN 1 BEAM 8 WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM)

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	12 LF

Location:		
Right Rail	Bent/Span No. 1	Rail

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/30/2015	Nick Pierce	Ricardo Cornejo

Details

SPAN 1 RIGHT BRIDGE RAIL: 2 FEET OF DECAY/SECTION LOSS: NEAR MIDSPAN, TOP BOARD DECAY (2FT X FULL WIDTH X FULL DEPTH) AND DETACHED AT END

SPAN 1 RIGHT BRIDGE RAIL: 10 FEET OF DECAY/SECTION LOSS: AT RAIL CONNECTIONS TO POSTS, DECAY WITH LOOSE CONNECTIONS

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	5 LF

Location:		
Left Rail	Bent/Span No. 1	Rail

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/30/2015	Nick Pierce	Ricardo Cornejo

Details

SPAN 1 LEFT BRIDGE RAIL: 2 FEET OF DECAY/SECTION LOSS: RAIL POST 1 AT BASE, DECAY (6IN X 2.5IN X 1IN) (SIMILAR AT POST 4)

SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF SPLIT/DELAMINATION (TIMBER): RAIL POST 5 OUTRIGGER, SPLIT (FULL LENGTH)

SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF SPLIT/DELAMINATION (TIMBER): RAIL POST 7 OUTRIGGER, SPLIT (FULL LENGTH)

SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF DAMAGE: AT END BENT 1, END CAP BOARD MISSING

SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF DECAY/SECTION LOSS: END BENT 2 END CAP BOARD, DECAY (FULL HEIGHT X FULL WIDTH X UP TO FULL DEPTH) AND LOOSE

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040177 County ASHE

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	1 LF

Location:		
Abutment Substructure	Bent/Span No. 1	END BENT 1 ABUTMENT

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/03/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

END BENT 1 ABUTMENT NORTH END PILE SUPPORT, DECAYED WITH (100%) SECTION LOSS (6IN X 6IN X 6FT)

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	14 LF

Location:		
Abutment Substructure	Bent/Span No. 1	END BENT 2 ABUTMENT

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
11/03/2015	NICHOLAS PIERCE	SWETHA NATARAJAN

Details

END BENT 2 ABUTMENT AT NORTH END BOTTOM BOARD, DECAYED (100%) (6FT X 8IN X 3IN) WITH FILL LOSS

END BENT 2 ABUTMENT 4TH BOARD FROM BOTTOM BETWEEN PILES 2 AND 4, DECAY (8FT X 8IN X 3IN) WITH FILL LOSS



END BENT 1 ABUTMENT NORTH END PILE SUPPORT, DECAYED WITH (100%) SECTION LOSS (6IN X 6IN X 6FT)



SPAN 1 BEAM 1 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



SPAN 1 BEAM 2 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



SPAN 1 BEAM 3 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



SPAN 1 BEAM 4 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



SPAN 1 BEAM 5 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



SPAN 1 BEAM 6 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



SPAN 1 BEAM 7 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



SPAN 1 BEAM 8 FLANGES AND WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO LOSS) BOTTOM, (1/4IN AVG REM) WEB, (7/16IN AVG REM) TOP



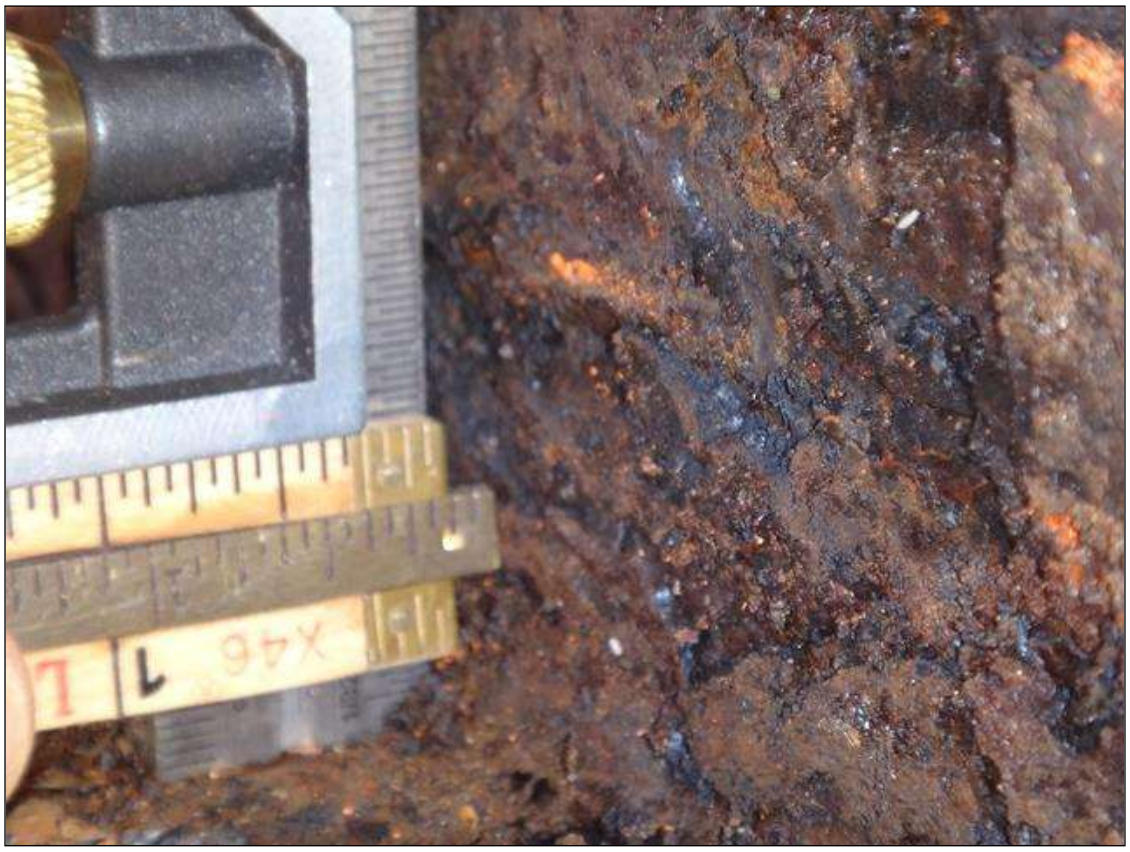
END BENT 2 ABUTMENT AT NORTH END BOTTOM BOARD, DECAYED (100%) (6FT X 8IN X 3IN) WITH FILL LOSS



END BENT 2 ABUTMENT 4TH BOARD FROM BOTTOM BETWEEN PILES 2 AND 4, DECAY (8FT X 8IN X 3IN) WITH FILL LOSS



SPAN 1 BEAM 8 BOTTOM FLANGE, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (NO MEASURABLE LOSS)



SPAN 1 BEAM 8 WEB, CORROSION WITH FLAKING STEEL (FULL LENGTH X UP TO 4IN) (1/4IN AVG REM)



SPAN 1 BEAM 5 TOP FLANGE, CORROSION WITH FLAKING STEEL (FULL LENGTH X FULL WIDTH) (7/16IN AVG REM) ON EXPOSED EDGES



SPAN 1 RIGHT BRIDGE RAIL: 2 FEET OF DECAY/SECTION LOSS: NEAR MIDSPAN, TOP BOARD DECAY (2FT X FULL WIDTH X FULL DEPTH) AND DETACHED AT END



SPAN 1 RIGHT BRIDGE RAIL: 10 FEET OF DECAY/SECTION LOSS: AT RAIL CONNECTIONS TO POSTS, DECAY WITH LOOSE CONNECTIONS



SPAN 1 LEFT BRIDGE RAIL: 2 FEET OF DECAY/SECTION LOSS: RAIL POST 1 AT BASE, DECAY (6IN X 2.5IN X 1IN) (SIMILAR AT POST 4)



SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF SPLIT/DELAMINATION (TIMBER): RAIL POST 5 OUTRIGGER, SPLIT (FULL LENGTH)



SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF SPLIT/DELAMINATION (TIMBER): RAIL POST 7 OUTRIGGER, SPLIT (FULL LENGTH)



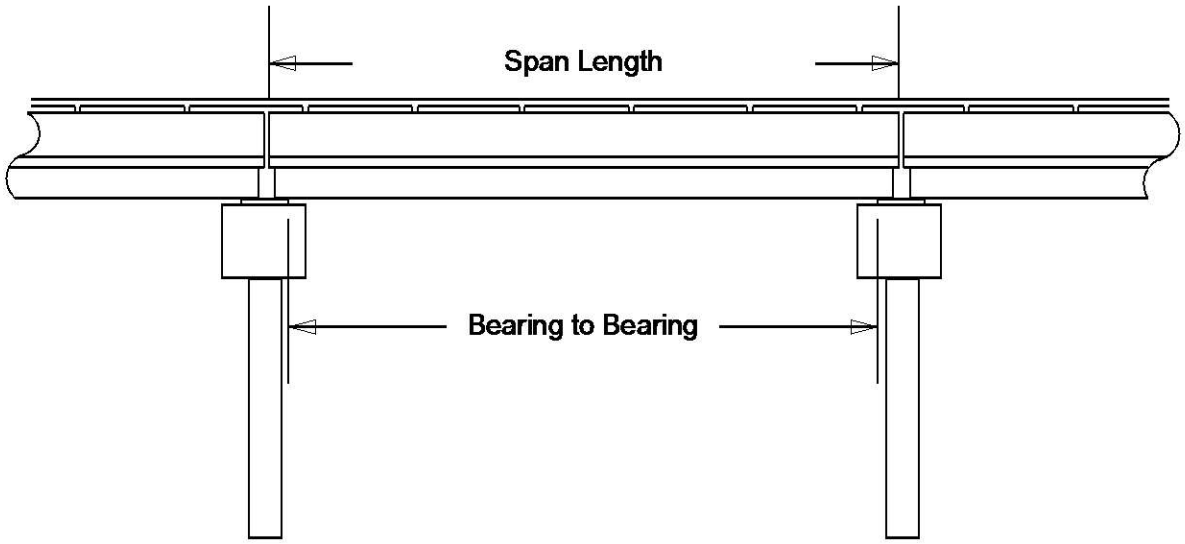
SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF DAMAGE: AT END BENT 1, END CAP BOARD MISSING



SPAN 1 LEFT BRIDGE RAIL: 1 FEET OF DECAY/SECTION LOSS: END BENT 2 END CAP BOARD, DECAY (FULL HEIGHT X FULL WIDTH X UP TO FULL DEPTH) AND LOOSE

Structure Data Worksheet

County: ASHE Structure No: 040177 Date: 11/03/2015 Inspected By: NAP



Span No	Span Length	Bearing to Bearing	Comments
1	50.5'	49.0'	NBIS LENGTH = 48.333'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 040177 County: ASHE Date: 11/03/2015 By: NAP

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

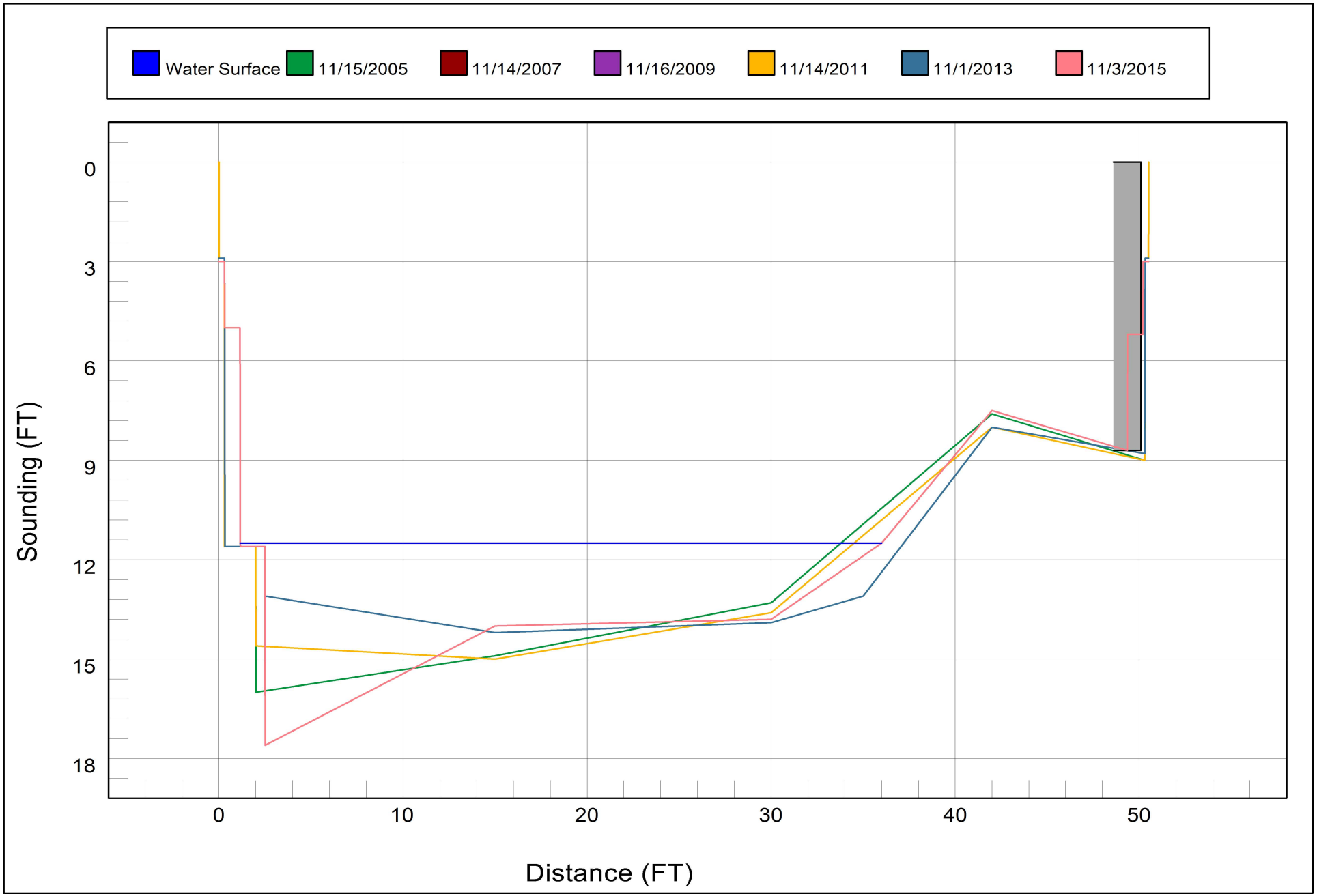
Distance from Highwater Mark to top of rail: 5 Location of Highwater Mark: BOTTOM OF BEAMS

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3	FILL FACE			
0.3	3	TOP OF BULKHEAD			
0.31	5	Top of Cap			
1.143	5	Top of Cap			
1.153	11.5	Water Surface/Water Edge (WSWE)			
1.163	11.6	TOP OF SILL			
2.5	11.6	TOP OF SILL			
2.51	17.6	GROUND AT SILL	2.51	11.4	GROUND AT SILL
15	14	STREAMBED			
30	13.8	STREAMBED			
36	11.5	Water Surface/Water Edge (WSWE)			
42	7.5	GROUND			
49.347	8.7	GROUND AT END BENT 2	49.347	7.5	GROUND AT END BENT 2
49.357	5.2	Top of Cap			
50.19	5.2	Top of Cap			
50.2	3	TOP OF BULKHEAD			
50.5	3	FILL FACE			

Bridge: 040177 County ASHE Date: 11/03/2015

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



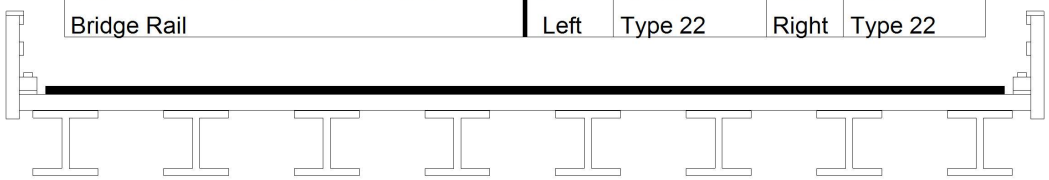
Roadway	17ft Wide	2 Paved Lanes	Looking East
Left Shoulder	3ft Wide		3ft Unpaved
Right Shoulder	5ft Wide		5ft Unpaved
Left Guardrail			
Right Guardrail			

NOTE: MEASUREMENTS TAKEN AT 60FT FROM END BENT 1

Title	**Description**		
APPROACH ROADWAY	DATA WORKSHEET		
Bridge No: 040177	**Drawn By:** R. CORNEJO	**Date:** 11/03/2015	**File Name:** S0130000435

Bridge Inspection Field Sketch

Deck Width/Out to Out	20.0ft	Between Rails				19.750ft
Clear Roadway	19.0ft	Wearing Surface				0.167ft
Median Width		Median Height				
Curb Height		Left	0.667ft	Right	0.667ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.5ft	Right	0.5ft	
Top of Rail to Deck/Wearing Surface		Left	2.667ft	Right	2.667ft	
Bridge Rail		Left	Type 22	Right	Type 22	

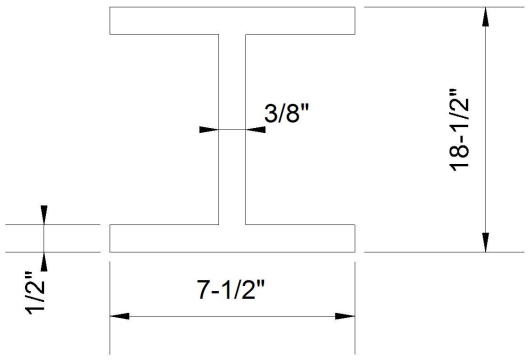


Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.917
Top of Rail to Bottom of Beam	5.0	Right Overhang	1.0

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.583ft	
2	Steel I Beam	2.583ft	
3	Steel I Beam	2.583ft	
4	Steel I Beam	2.583ft	
5	Steel I Beam	2.583ft	
6	Steel I Beam	2.583ft	
7	Steel I Beam	2.583ft	
8	Steel I Beam	ft	

NOTE: 2 5/8" X 10" DIAPH. @ 1/3 PTS.

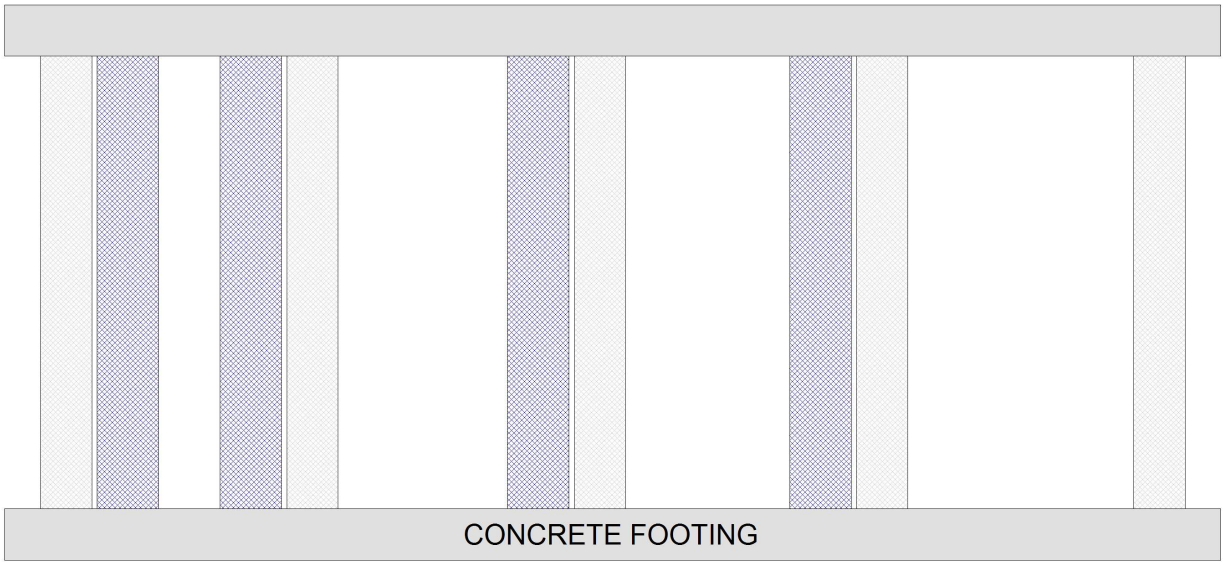
BEAM MEASUREMENTS



Title	Description
TYPICAL SECTION SKETCH	DATA WORKSHEET

Bridge No:	Drawn By:	Date:	File Name:
040177	R. CORNEJO	11/03/2015	S0126000402

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.
19.750 ft.	0.833 ft.	0.833 ft.	1 ft.	1 ft.	.917 ft.	.917 ft.

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

Sill Information			Material Concrete
Length	Width	Height	NOTE: PILES 2, 3, 5, AND 7 ARE TEMPORARY REPAIRS
19.750 ft.	2.000 ft.	1.000 ft.	

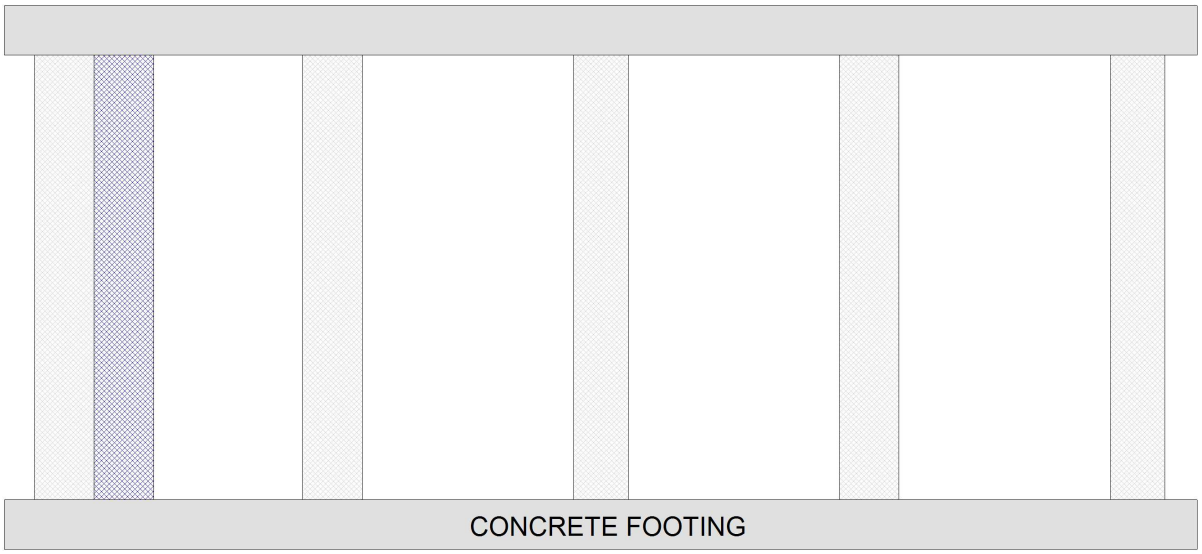
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	.833 ft.			Vertical	No	No	No	No
2	Timber	2 ft.	1 ft.	1 ft.		Vertical	No	Yes	No	No
3	Timber	1 ft.	1 ft.	1 ft.		Vertical	No	Yes	No	No
4	Timber	3.667 ft.	.833 ft.			Vertical	No	No	No	No
5	Timber	1 ft.	1 ft.	.833 ft.		Vertical	No	Yes	No	No
6	Timber	3.583 ft.	.833 ft.			Vertical	No	No	No	No
7	Timber	1 ft.	1 ft.	.833 ft.		Vertical	No	Yes	No	No
8	Timber	4.5 ft.	.833 ft.			Vertical	No	No	No	No
9	Timber		.833 ft.			Vertical	No	No	No	No

Bent/Abutment #: 1 Similar Bents:

Title	**Description**
END BENT 1 SKETCH	DATA WORKSHEET

Bridge No: 040177	**Drawn By:** R. CORNEJO	**Date:** 11/03/2015	**File Name:** S0130000433

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.	0.833 ft.	0.833 ft.	1 ft.	1 ft.	.917 ft.	.917 ft.

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

Sill Information			Material
Length	Width	Height	NOTE: PILE 2 IS A TEMPORARY REPAIR
20.000 ft.	2.000 ft.	1.000 ft.	

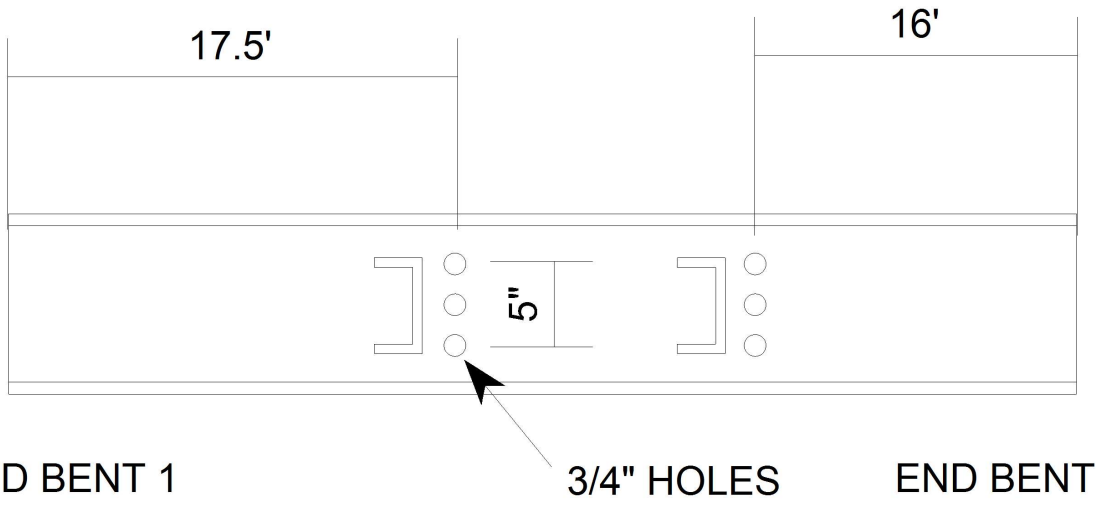
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	3.5 ft.	1 ft.	1 ft.		Vertical	No	Yes	No	No
3	Timber	4.5 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	4.5 ft.	.917 ft.			Vertical	No	No	No	No
5	Timber	4.5 ft.	1 ft.			Vertical	No	No	No	No
6	Timber		.917 ft.			Vertical	No	No	No	No

Bent/Abutment #: 2 Similar Bents:

Title	**Description**
END BENT 2 SKETCH	DATA WORKSHEET

Bridge No: 040177	**Drawn By:** R. CORNEJO	**Date:** 11/03/2015	**File Name:** S0130000434

Bridge Inspection Field Sketch

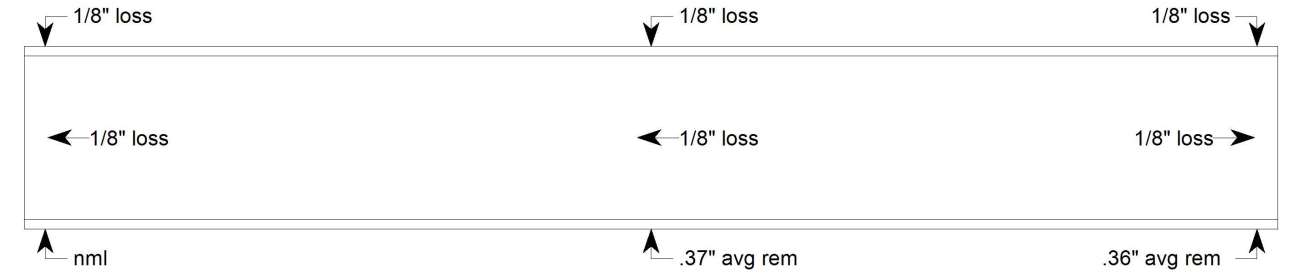


BEAM 2 (SIM. BEAMS 3-7)

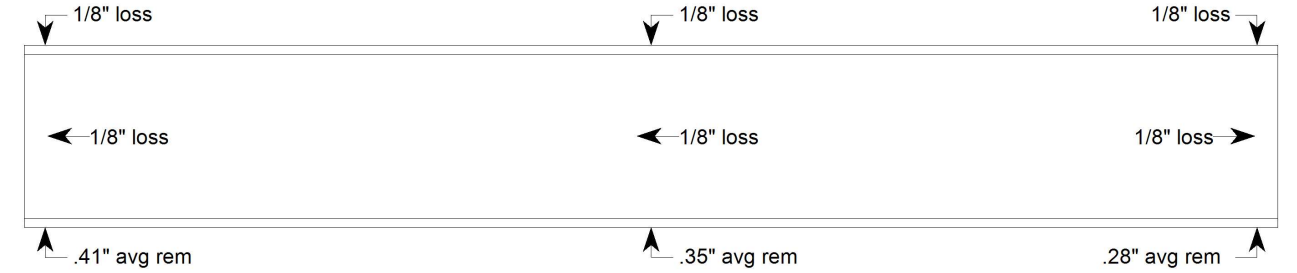
Title	Description
Salvage Beam	Holes in Beams

Bridge No:	Drawn By:	Date:	File Name:
040177	MTMills	11/25/2015	S0574000121

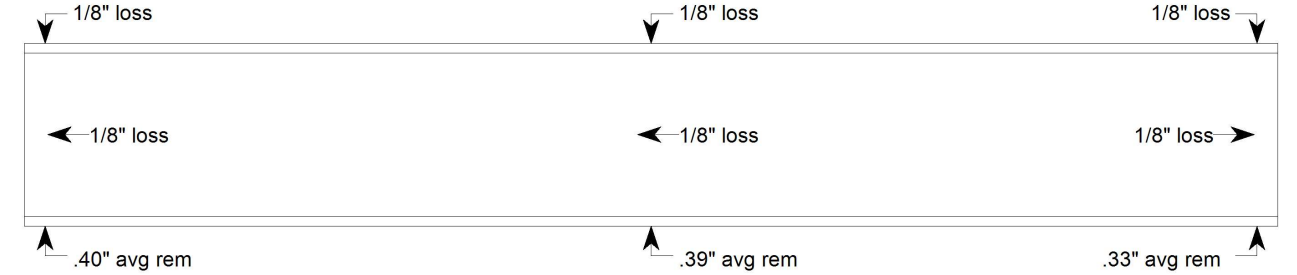
Bridge Inspection Field Sketch



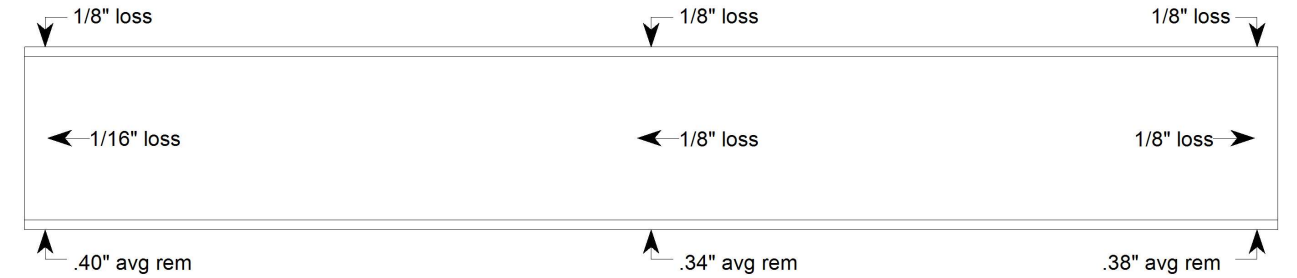
EB 1 — Beam 1 — EB 2



EB 1 — Beam 2 — EB 2



EB 1 — Beam 3 — EB 2



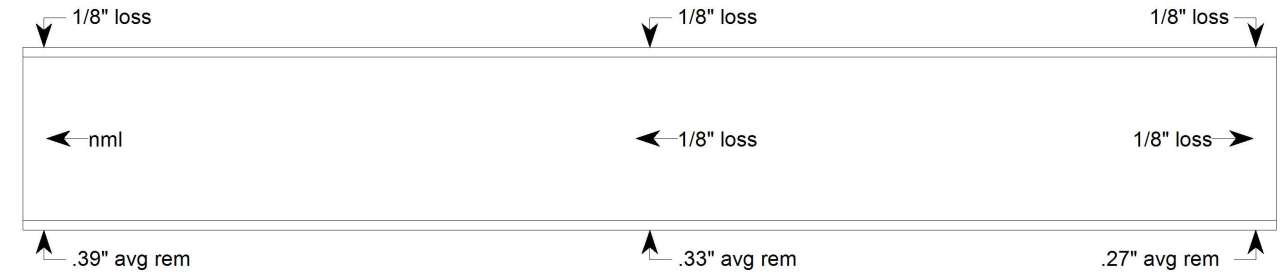
EB 1 — Beam 4 — EB 2

nml = no measurable loss; avg rem = average remaining

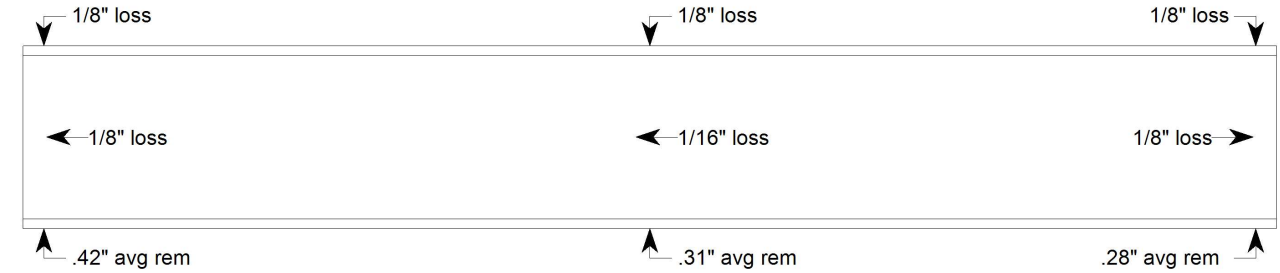
Title	**Description**
Beam Conditions 1	Beams 1-4 Section Loss

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
040177	MTMills	11/25/2015	S0574000122

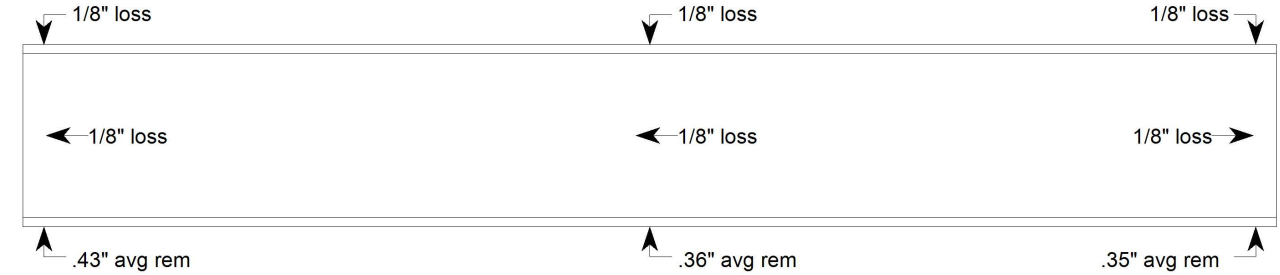
Bridge Inspection Field Sketch



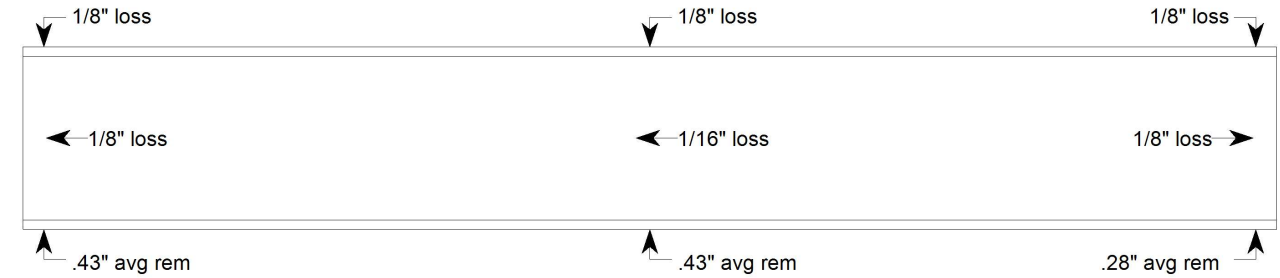
EB 1 — Beam 5 — EB 2



EB 1 — Beam 6 — EB 2



EB 1 — Beam 7 — EB 2



EB 1 — Beam 8 — EB 2

nml = no measurable loss; avg rem = average remaining

Title	**Description**
Beam Conditions 2	Beams 5-8 Section Loss

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
040177	MTMills	11/25/2015	S0574000123