



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PMN'S ISSUED FOR SUPERSTRUCTURE &
SUBSTRUCTURE... NON-NBIS...

Structure Safety Report

Routine Element Inspection

COUNTY: WATAUGA STRUCTURE NUMBER: 940048 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1351 MILE POST:

LOCATION: .4 MI.NE.JCT.SR1354

FEATURE INTERSECTED: GRASSY CREEK

LATITUDE: 36° 15' 57.07" LONGITUDE: 81° 35' 53.91"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BT1:TIM.CAP/TIM.POST&SILL;E.BT2:TIMBER CAP/TIM.POST&CONC.SILL

1 @ 18' - 6"

SPANS: 1 @ 18'-6

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

PRESENT CONDITION: Poor INSPECTION DATE: 10/15/2015

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: (4) DELINEATORS, (2) NARROW BRIDGE



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>

WEST TO EAST

INSPECTED BY ANDREW GLASCO	SIGNATURE 	ASSISTED BY MAX FORD
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Span Element Report

Structure Number: 940048

Inspection Date: 10/15/2015

Span Number 1

Span Length 18.5 Feet

Number of Beams/Girders: 9

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	372	372	0	0	0	0	3324
107		Steel Open Girder/Beam	162	0	0	162	0	162	3314
515	107	Steel Protective Coating	594	288	0	0	306	306	3342
216		Timber Abutment	62	59	0	3	0	3	3346
228		Timber Pile	12	10	2	0	0	2	3344
235		Timber Pier Cap	40	40	0	0	0	0	3344
332		Timber Bridge Railing	38	38	0	0	0	0	3316
510		Wearing Surface	372	0	0	372	0	372	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: 940048

Inspection Date: 10/15/2015

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	372	372	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	19	19	0	0	0	0	3316	☐ Requested
☒ Bridge Rail	2	332	Timber Bridge Railing	19	19	0	0	0	0	3316	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	372	0	0	372	0	372	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☒ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	2	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☒ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	3	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☒ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	4	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☒ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	5	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	6	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☒ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	7	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	8	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☒ Requested
Protective System		515	Steel Protective Coating	66	30	0	0	36	36	3342	
☒ Beam	9	107	Steel Open Girder/Beam	18	0	0	18	0	18	3314	☒ Requested
Protective System		515	Steel Protective Coating	66	48	0	0	18	18	3342	

Superstructure Element Defect Descriptions

Structure Number: 940048

Inspection Date: 10/15/2015

Span Number 1

Span	1	Wearing Surfaces	Component Name:	Asphalt Wearing Surface
Element:	510	Name Wearing Surface	Qty: 372	Lvl 2: 0 Lvl 3: 372 Lvl 4: 0 Maint. Qty: 372
Defect Description:				

372 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. TRANSVERSE CRACKS ALONG DECK BOARDS

Span	1	Beam	1	Component Name:				Plate Girder					
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 1/4") LOSS AND (+/- 1/8") REMAINING SECTION

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 1/4") LOSS AND (+/- 1/8") REMAINING SECTION

Span	1	Beam	2	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L ALONG TOP FLANGES AND (+/- 12 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. CORROSION F/L ALONG TOP FLANGES AND (+/- 12 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

Span	1	Beam	3	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (3) CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (3) CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

Span 1	Beam 4	Component Name: Plate Girder								
Element: 107	Name Steel Open Girder/Beam	Qty: 18	Lvl 2: 0	Lvl 3: 18	Lvl 4: 0	Maint. Qty: 18				
Defect Description:										

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

Span	1	Beam	5	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH NO MEASURABLE SECTION LOSS AT THIS TIME

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. CORROSION F/L

ALONG TOP AND BOTTOM FLANGES WITH NO MEASURABLE SECTION LOSS AT THIS TIME

Span	1	Beam	6	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (6)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (6)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

Span	1	Beam	7	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L
ALONG TOP AND BOTTOM FLANGES WITH NO MEASURABLE SECTION LOSS AT THIS TIME

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. CORROSION F/L
ALONG TOP AND BOTTOM FLANGES WITH NO MEASURABLE SECTION LOSS AT THIS TIME

Span	1	Beam	8	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (8)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

36 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (8)
CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

Span	1	Beam	9	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													

18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (9)
CORROSION F/L ALONG TOP FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

18 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal. BEAM (9)
CORROSION F/L ALONG TOP FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

Substructure Detailed Element Quantities

Structure Number: 940048

Inspection Date: 10/15/2015

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	31	28	0	3	0	3	3346	☒ Requested
☒ Caps	1	235	Timber Pier Cap	20	20	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	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
☒ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	8	228	Timber Pile	1	1	0	0	0	0	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	31	31	0	0	0	0	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	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	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 940048

Inspection Date: 10/15/2015

End Bent 1

End Bent 1	Row 1	Abutments	1								
Element: 216	Name	Timber Abutment	Qty:	31	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. RIGHT END ABUT.
(A) TIMBER BULKHEAD TOP (2) BOARDS DECAYED (+/- 6 SF)

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

1 Each of Decay/Section Loss: Affects less than 10% of the member section. ABUT. (B) POST (1) WEST FACE DECAYED (+/- 1' H X 5" W X 1" D)

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

1 Each of Decay/Section Loss: Affects less than 10% of the member section. ABUT. (B) POST (1) WEST FACE DECAYED (+/- 1' H X 5" W X 1" D)

National Bridge and NC Inspection Items

Structure Number: 940048

Inspection Date: 10/15/2015

National Bridge Inventory Items

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

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	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	G	0	3352
Scour	G, F, P, or C	F		
Wingwall	G, F, P, or C	P	10	3350
Field Scour Evaluation		L		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	6		

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	6
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 940048

Inspection Date: 10/15/2015

Item	Superstructure - Item 59	Grade	4	Maint Code		Qty.	0
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Details PMN'S ISSUED FOR SUPERSTRUCTURE

Item	Substructure - Item 60	Grade	5	Maint Code		Qty.	0
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Details PMN ISSUED FOR SUBSTRUCTURE

Item	Channel and Channel Protection - Item 61	Grade	5	Maint Code		Qty.	0
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Details SEE SCOUR..

Item	Priority Maintenance Issued	Grade	Y	Maint Code		Qty.	0
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Details PMN'S ISSUED FOR SUPERSTRUCTURE & SUBSTRUCTURE

Item	Scour	Grade	F	Maint Code		Qty.	0
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Details RIGHT END ABUTMENT B (R.C.) ENCASEMENT UNDERMINED (+/- 10 LF X 6" D X 1' PROBES)

Item	Wingwalls	Grade	P	Maint Code	3350	Qty.	10
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Details SOUTH WEST WING TOP (3) BOARDS DECAYED (+/- 15 SF) WITH LOSS OF FILL.

Item	Field Scour Evaluation	Grade	L	Maint Code		Qty.	0
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Details RIGHT END ABUTMENT B (R.C.) ENCASEMENT UNDERMINED (+/- 10 LF X 6" D X 1' PROBES)



Span 1 Wearing Surface: 372 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. TRANSVERSE CRACKS ALONG DECK BOARDS



SOUTH WEST WING TOP (3) BOARDS DECAYED (+/- 15 SF) WITH LOSS OF FILL.



End Bent 1 Abutment/Backwall : 3 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. RIGHT END ABUT. (A) TIMBER BULKHEAD TOP (2) BOARDS DECAYED (+/- 6 SF)



RIGHT END ABUTMENT B (R.C.) ENCASEMENT UNDERMINED (+/- 10 LF X 6" D X 1' PROBES)



End Bent 2 Pile 1: 1 Each of Decay/Section Loss: Affects less than 10% of the member section. ABUT. (B) POST (1)
WEST FACE DECAYED (+/- 1' H X 5" W X 1" D)



Span 1 Beam 1: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 1/4") LOSS AND (+/- 1/8") REMAINING SECTION



Span 1 Beam 2: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L ALONG TOP FLANGES AND (+/- 12 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION



Span 1 Beam 3: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (3) CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION



Span 1 Beam 4: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION



Span 1 Beam 5: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH NO MEASURABLE SECTION LOSS AT THIS TIME



Span 1 Beam 6: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION



Span 1 Beam 8: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION



Span 1 Beam 9: 18 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. BEAM (9) CORROSION F/L ALONG TOP FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION



WEST APPROACH NARROW BRIDGE SIGN



WEST TO EAST



UPSTREAM



DOWNSTREAM



LOOKING WEST



SOUTH PROFILE



NORTH PROFILE



EAST APPROACH NARROW BRIDGE SIGN

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

Run Date: 11/09/2015

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	940048		SUFFICIENCY RATING =		21.34	
(8) STRUCTURE NUMBER(FEDERAL)		000000001890048		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013510					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2					
(3) COUNTY CODE 189	(4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -		NO	
(6) FEATURE INTERSECTED - GRASSY CREEK				(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED SR1351				(26) FUNCTIONAL CLASS -	Local	09	
(9) LOCATION .4 MI.NE.JCT.SR1354				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT 36° 15' 57.07"	(17)LONG 81° 35' 53.91"			(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				CONDITION			
(43) STRUCTURE TYPE MAIN: Steel				(58) DECK		7	
TYPE - Stringer Mutlibeam or Girder	CODE	302		(59) SUPERSTRUCTURE		4	
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE		4	
TYPE -	CODE	000		(61) CHANNEL & CHANNEL PROTECTION		5	
(45) NUMBER OF SPANS IN MAIN UNIT		1		(62) CULVERTS		N	
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE - 8	CODE			LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	Unknown	0	
(A) TYPE OF WEARING SURFACE -	CODE			(63) OPERATING RATING METHOD -	Load Factor	1	
(B) TYPE OF MEMBRANE -	CODE			(64) OPERATING RATING -	HS-1	1	
(C) TYPE OF DECK PROTECTION -	CODE			(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		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT		1960		(67) STRUCTURAL EVALUATION		3	
(106)YEAR RECONSTRUCTED		1989		(68) DECK GEOMETRY		3	
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ		N	
UNDER - Waterway	CODE	15		(71) WATERWAY ADEQUACY		7	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		(72) APPROACH ROADWAY ALIGNMENT		8	
(29) AVERAGE DAILY TRAFFIC		120		(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT 2000	(109) TRUCK ADT PCT	6%		(113)SCOUR CRITICAL BRIDGES		U	
(19) BYPASS OR DETOUR LENGTH		6 MI					
GEOMETRIC DATA				PROPOSED IMPROVEMENTS			
(48) LENGTH OF MAXIMUM SPAN		17 FT		(75) TYPE OF WORK -		CODE	
(49) STRUCTURE LENGTH		19 FT		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT				(94) BRIDGE IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		19.167 FT		(95) ROADWAY IMPROVEMENT COST			
(52) DECK WIDTH OUT TO OUT		20.083 FT		(96) TOTAL PROJECT COST			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(33) BRIDGE MEDIAN - No Median	CODE	0		(114)FUTURE ADT 240			
(34) SKEW 15°	(35) STRUCTURE FLARED	0		(115) YEAR FUTURE ADT	2025		
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		19.167 FT		INSPECTIONS			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(90) INSPECTION DATE		10/15/2015	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		A) FRACTURE CRIT DETAIL -	NO	A)	
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		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: 11/09/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WATAUGA	11	2	940048	19	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1351	GRASSY CREEK

LOCATED :	BRIDGE NAME :	CITY :
.4 MI.NE.JCT.SR1354		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	120 2000	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1960	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
1989	BMU	5.7551	TAN	75	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		7 FT		2		FT

SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS
------------------	-------------------------

SUBSTRUCTURE :	E.BT1:TIM.CAP/TIM.POST&SILL;E.BT2:TIMBER CAP/TIM.POST&CONC.SILL
----------------	---

SPANS :	1 @ 18'-6
---------	-----------

BEAMS OR GIRDERS :	9 LINES 12 I-BEAMS @ 2'-2.125 CENTERS
--------------------	---------------------------------------

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/1.5 AWS		20.083 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.167 FT	19.833 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Ext Beam (SecLoss)	SV 12	TTST 20	DATE	11/06/2015	

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 940048

County WATAUGA

Date:

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	18	CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 1/4") LOSS AND (+/- 1/8") REMAINING SECTION	
 3314	Maintain Steel Superstructure Components	LF	18	CORROSION F/L ALONG TOP FLANGES AND (+/- 12 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION	
 3314	Maintain Steel Superstructure Components	LF	18	BEAM (3) CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING	
 3314	Maintain Steel Superstructure Components	LF	18	BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION	
 3314	Maintain Steel Superstructure Components	LF	18	BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION	
 3314	Maintain Steel Superstructure Components	LF	18	BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION	
 3314	Maintain Steel Superstructure Components	LF	18	BEAM (9) CORROSION F/L ALONG TOP FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	10	SOUTH WEST WING TOP (3) BOARDS DECAYED (+/- 15 SF) WITH LOSS OF FILL.	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	6	RIGHT END ABUT. (A) TIMBER BULKHEAD TOP (2) BOARDS DECAYED (+/- 6 SF)	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940048

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	18 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:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 1/4") LOSS AND (+/- 1/8") REMAINING SECTION		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	18 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (2)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
CORROSION F/L ALONG TOP FLANGES AND (+/- 12 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940048

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	18 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (3)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (3) CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A) BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	18 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (4)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940048

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	18 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (6)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	18 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (8)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940048

County WATAUGA

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	18 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM (9)
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
BEAM (9) CORROSION F/L ALONG TOP FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	10 SF
Location:		
Abutment Substructure	Bent/Span No. 1	SOUTH WEST WING
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
SOUTH WEST WING TOP (3) BOARDS DECAYED (+/- 15 SF) WITH LOSS OF FILL.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 940048

County WATAUGA

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	6 SF
Location:		
Abutment Substructure	Bent/Span No. 1	ABUT. (A) BULKHEAD
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/19/2015	ANDREW GLASCO	MAX FORD
Details		
RIGHT END ABUT. (A) TIMBER BULKHEAD TOP (2) BOARDS DECAYED (+/- 6 SF)		



SOUTH WEST WING TOP (3) BOARDS DECAYED (+/- 15 SF) WITH LOSS OF FILL.



RIGHT END ABUT. (A) TIMBER BULKHEAD TOP (2) BOARDS DECAYED (+/- 6 SF)



BEAM (1) CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A)
BEAM END WITH (+/- 1/4") LOSS AND (+/- 1/8") REMAINING



BEAM (2) CORROSION F/L ALONG TOP FLANGES AND (+/- 12 LF) ALONG BOTTOM FLANGES FROM ABUT. (A)
BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING



BEAM (3) CORROSION F/L ALONG TOP FLANGES AND (+/- 10 LF) ALONG BOTTOM FLANGES FROM ABUT. (A)
BEAM END WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING



BEAM (4) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION



BEAM (6) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16")
REMAINING SECTION



BEAM (8) CORROSION F/L ALONG TOP AND BOTTOM FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

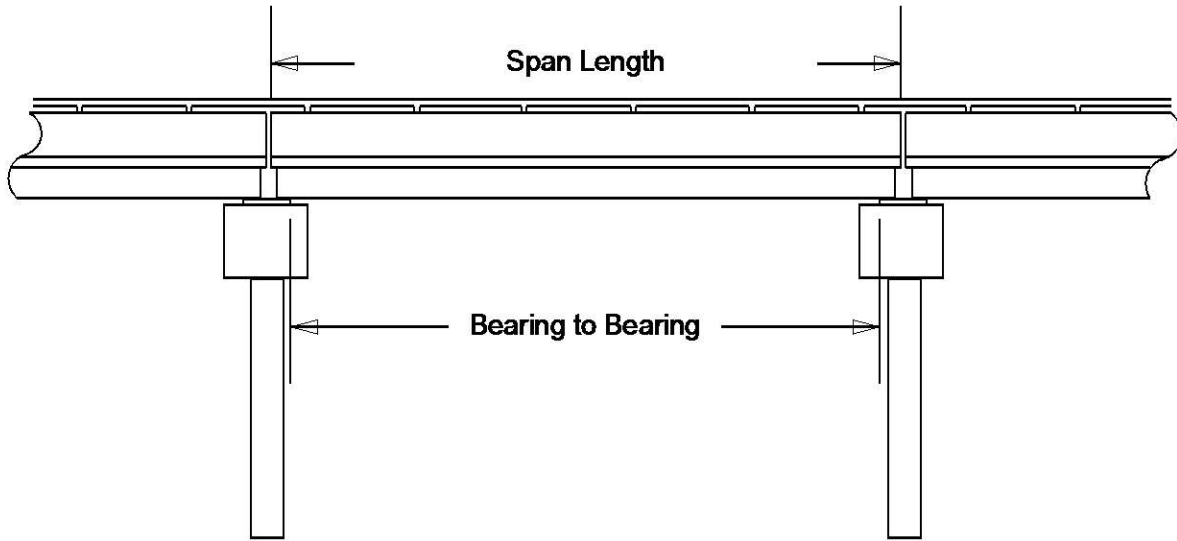


BEAM (9) CORROSION F/L ALONG TOP FLANGES WITH (+/- 3/16") LOSS AND (+/- 3/16") REMAINING SECTION

Structure Data Worksheet

Spans

County: WATAUGA Structure No: 940048 Date: Inspected By: AG



Span No	Span Length	Bearing to Bearing	Comments
1	18' 6"	17' 2"	FACE OF ABUT. CAP TO FACE OF ABUT. CAP = 15' 10"

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 940048 County: WATAUGA Date: _____ By: AG

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

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

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8	FILL FACE			
0.3	2.8	TOP OF BACKWALL			
0.31	4.5	Top of Cap			
0.32	7.3	GROUND AT BULKHEAD	0.32	7.2	GROUND AT BULKHEAD
0.33	7.4	Water Surface/Water Edge (WSWE)			
12	9.2	STREAMBED	12	8.1	STREAMBED
16.5	8.6	GROUND AT FOOTING	16.5	8	GROUND AT FOOTING
16.51	7.8	Water Surface/Water Edge (WSWE)			
16.52	7.7	TOP OF FOOTING			
17	7.7	TOP OF FOOTING			
17.01	6.4	TOP OF SILL			
18.3	6.4	TOP OF SILL			
18.31	4.5	Top of Cap			
18.32	2.8	TOP OF BACKWALL			
18.5	2.8	FILL FACE			

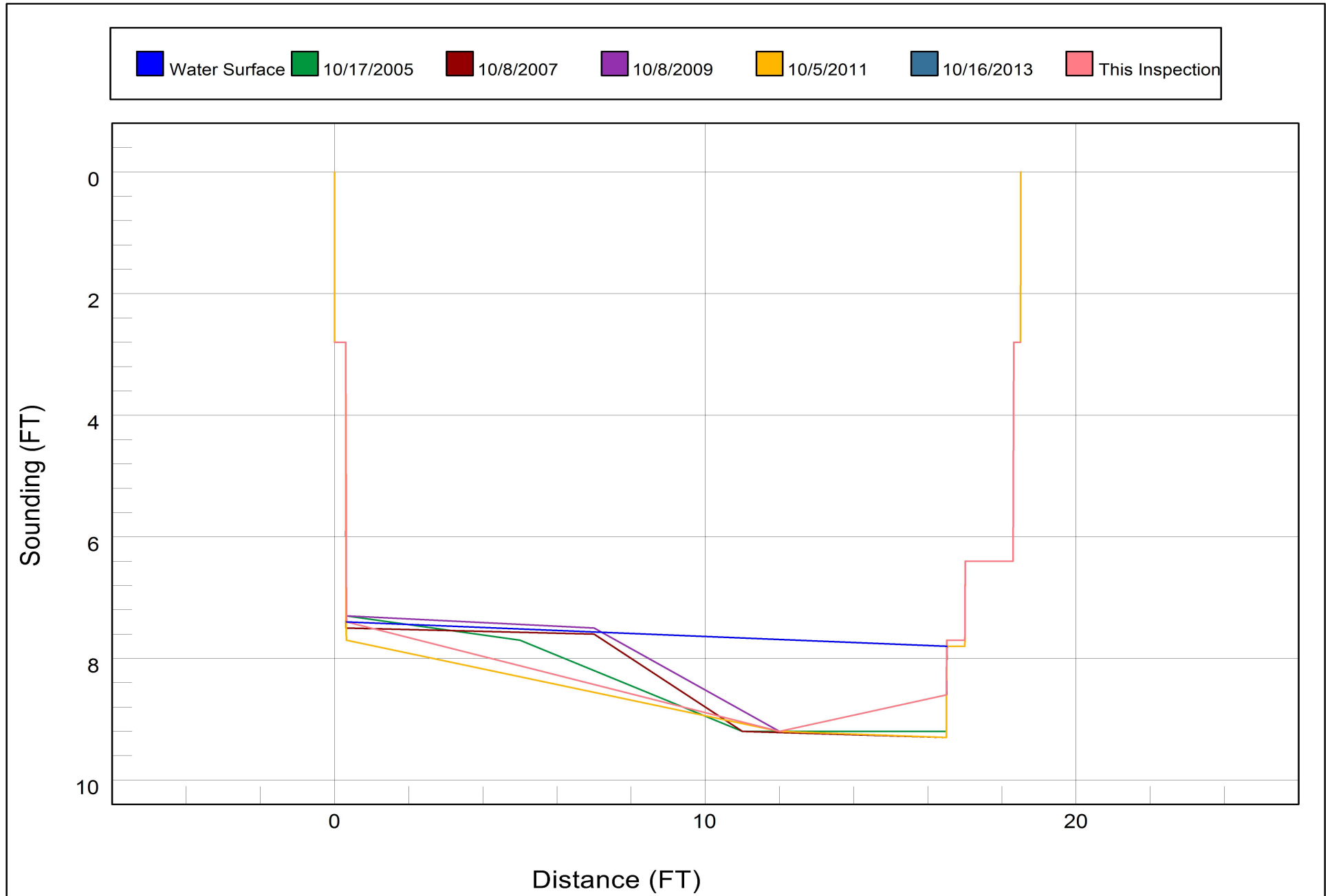
Bridge: 940048

County WATAUGA

Date:

STREAMBED PROFILE (Downstream)

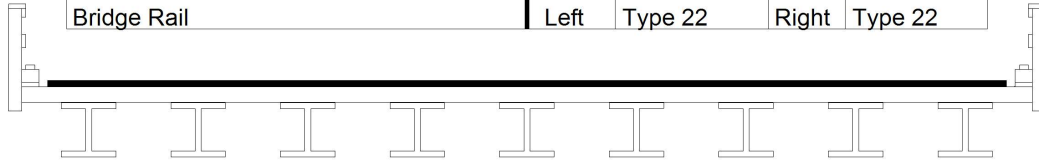
Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

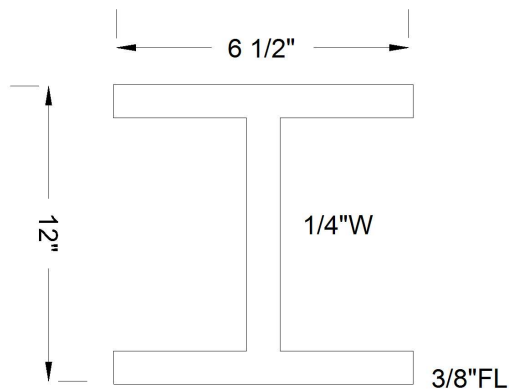
VERIFIED 10/15/2015 A. GLASCO, M. FORD

Deck Width/Out to Out	20.083ft	Between Rails	19.833ft
Clear Roadway	19.167ft	Wearing Surface	0.125ft
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 2.75ft	Right 2.75ft
Bridge Rail		Left Type 22	Right Type 22



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	1.333
Top of Rail to Bottom of Beam	4.5	Right Overhang	1.333

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.177ft	
2	Steel I Beam	2.177ft	
3	Steel I Beam	2.177ft	
4	Steel I Beam	2.177ft	
5	Steel I Beam	2.177ft	
6	Steel I Beam	2.177ft	
7	Steel I Beam	2.177ft	
8	Steel I Beam	2.177ft	
9	Steel I Beam		



Title

SUPERSTRUCTURE

Description

DATA WORKSHEET

Bridge No: 940048

Drawn By: W. MITCHELL

Date: 10/17/2013

File Name: S0126000331

Bridge Inspection Field Sketch

VERIFIED 10/15/2015 A. GLASCO, M. FORD

TEMPORARY REPAIR

TEMPORARY REPAIR

TEMPORARY REPAIR

TEMPORARY REPAIR

Cap Information

Material

Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
20.000 ft.	.833 ft.	.833 ft.	.670 ft.	.670 ft.	.670 ft.	1.000 ft.

Subcap Information

Material

Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.
--------	-------	--------	---------------	----------------	----------------------

Sill Information

Material

Length	Width	Height
--------	-------	--------

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	.833 ft.	0.833 ft.	.833 ft.		Vertical	No	No	No	No
2	Timber	3.5 ft.	.833 ft.	.833 ft.		Vertical	No	No	No	No
3	Timber	.833 ft.	.833 ft.	.833 ft.		Vertical	No	No	No	No
4	Timber	6 ft.	.833 ft.	.833 ft.		Vertical	No	No	No	No
5	Timber	.833 ft.	.833 ft.	.833 ft.		Vertical	No	No	No	No
6	Timber	3.5 ft.	.833 ft.	.833 ft.		Vertical	No	No	No	No
7	Timber	0.833 ft.	.833 ft.	.833 ft.		Vertical	No	No	No	No
8	Timber		0.833 ft.	0.833 ft.		Vertical	No	No	No	No

Bent/Abutment #: 1

Similar Bents:

Title

SUBSTRUCTURE

Description

DATA WORKSHEET

Bridge No: 940048

Drawn By: W. MITCHELL

Date: 10/17/2013

File Name: S0130000352

Bridge Inspection Field Sketch

VERIFIED 10/15/2015 A. GLASCO, M. FORD



Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	8ft Wide		8ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPROACH ROADWAY

Description

DATA WORKSHEET

Bridge No: 940048

Drawn By: W. MITCHELL

Date: 10/17/2013

File Name: S0126000334

VERIFIED 10/15/2015 A. GLASCO, M. FORD

Title		Description	
SUBSTRUCTURE		DATA WORKSHEET	
Bridge No: 940048	Drawn By: W. MITCHELL	Date: 10/17/2013	File Name: S0130000353