



NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

INSPECTION DATE: 09/10/2020

DIVISION: 13 COUNTY: BUNCOMBE STRUCTURE NUMBER: 100536 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1296 MILE POST: _____

LOCATION: 0.1MI.N.JCT.SR1004

FEATURE INTERSECTED: NEWFOUND CREEK

LATITUDE: 35° 36' 26.08" LONGITUDE: 82° 43' 49.28"

TIMBER FLOOR ON SALVAGE I-BEAMS

SUPERSTRUCTURE: _____

SUBSTRUCTURE: _____

SPANS: 1 SPAN. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

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

NBI GRADES: DECK 7 SUPERSTRUCTURE 7 SUBSTRUCTURE 7 CULVERT N

POSTED SV: 22 POSTED TTST: 29

OTHER SIGNS PRESENT: DELINEATORS (4), ONE LANE BRIDGE (2)



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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

SOUTH APPROACH LOOKING NORTH

INSPECTED BY
Joseph Huntsinger

SIGNATURE

ASSISTED BY Dennis Wilson

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

09/22/2020

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 100536
 (8) STRUCTURE NUMBER (FEDERAL) 0210536
 (5) INVENTORY ROUTE (ON/UNDER) ON 131012960
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 21 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED NEWFOUND CREEK
 (7) FACILITY CARRIED SR1296
 (9) LOCATION 0.1MI.N.JCT.SR1004
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 36' 26.08" (17) LONGITUDE 82° 43' 49.28"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 50.31
 STATUS = Functionally Obsolete

CLASSIFICATION

CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Rural Local 09
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE No parallel structure exists N
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 1
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 8
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 6
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION

CODE

(58) DECK 7
 (59) SUPERSTRUCTURE 7
 (60) SUBSTRUCTURE 7
 (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-20 36
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-12 21
 (70) BRIDGE POSTING Posting Required 2
 (41) STRUCTURE OPEN, POSTED, OR CLOSED
 DESCRIPTION Posted for Load P

AGE AND SERVICE

(27) YEAR BUILT 1959
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Highway
 OFF - Waterway CODE 15
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 0
 (29) AVERAGE DAILY TRAFFIC 430
 (30) YEAR OF ADT 2000 (109) TRUCK ADT PCT 6
 (19) BYPASS OR DETOUR LENGTH 99.0

APPRAISAL

CODE

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES, VERT & HORIZ N
 (71) WATERWAY ADEQUACY 5
 (72) APPROACH ROADWAY ALIGNMENT 2
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES U

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 29.0
 (49) STRUCTURE LENGTH 31.0
 (50) CURB OR SIDEWALK: LEFT 0.3 RIGHT 0.3
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 17.8
 (52) DECK WIDTH OUT TO OUT 18.8
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 14.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 0 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 17.8
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE 0.0
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE N 0.0
 (56) MIN LAT UNDERCLEARANCE LT: 0.0

PROPOSED IMPROVEMENTS

CODE

(75) TYPE OF WORK
 (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 860 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 0
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

(90) INSPECTION DATE 09/20 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)
 SCOUR

Superstructure Build Details

Span Number 1

Span Length 30.5000

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	542 Square Feet		
11	Plate Girder	Steel Open Girder/Beam	341 Feet	Unknow	1529
2	Timber Rail	Timber Bridge Railing	62 Feet		
1	Timber Deck	Timber Deck	572 Square Feet		

Structure Element Scoring

Structure Number: 100536

Inspection Date 9/10/2020

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
31	0	Timber Deck	Deck	572	572	0	0	0
107	0	Steel Open Girder/Beam	Beam	341	0	340	1	0
515	107	Steel Protective Coating	Beam	1529	0	0	1529	0
216	0	Timber Abutment	Abutments	40	40	0	0	0
228	0	Timber Pile	Piles and Columns	9	5	4	0	0
235	0	Timber Pier Cap	Caps	38	38	0	0	0
332	0	Timber Bridge Railing	Bridge Rail	62	0	62	0	0
510	0	Wearing Surface	Wearing Surfaces	542	542	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 100536

Inspection Date: 09/10/2020

MMS Code	Element Name	Defect Name	Recommended Quantity
3314	Steel Open Girder/Beam	Distortion	1 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	1529 Square Feet

Element Structure Maintenance Quantities

Structure Number: **100536**

Inspection Date **09/10/2020**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	0	40	0	0	0	40
Beam	3314	Maintenance Steel Superstructure Components	1	341	0	1	340	0
Beam	3342	Clean and Paint Steel	1529	1529	0	1529	0	0
Bridge Rail	3316	Maintenance of Timber Bridge Rail	0	62	0	0	62	0
Caps	3344	Maintenance To Timber Substrcutre	0	38	0	0	0	38
Deck	3324	Maintenance of Timber Deck Components	0	572	0	0	0	572
Piles and Columns	3344	Maintenance To Timber Substrcutre	0	9	0	0	4	5
Wearing Surfaces	2816	Asphalt Surface Repair	0	542	0	0	0	542

Element Condition and Maintenance Data

Structure Number: 100536

Inspection Date: 09/10/2020

Span 1

Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	31	0	0 Feet
515	Steel Protective Coating	139	0	0	139	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	29	Feet
107	Distortion	RIGHT BOTTOM FLANGE HAS A 2" LONG X 1/2" DEEP UPWARD BEND AT 2' FROM THE END AT END BENT 1. THERE IS A SIMILAR AREA OF DISTORTION IN THE RIGHT BOTTOM FLANGE AT 1' 6" FROM THE END AT END BENT 2.	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139 Square Feet

General Comments

Span 1

Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	31	0	0 Feet
515	Steel Protective Coating	139	0	0	139	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31	Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139 Square Feet

General Comments

Span 1

Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	31	0	0 Feet
515	Steel Protective Coating	139	0	0	139	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31	Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139 Square Feet

General Comments

Span 1**Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	31	0	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	31	0	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	31	0	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	31	0	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	31	0	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	31	0	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Beam 10****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	31	0	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Beam 11****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	30	1	0	Feet
515	Steel Protective Coating	139	0	0	139	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Distortion	6" WIDE X 0.75" HIGH UPWARD BEND IN THE RIGHT HALF OF THE BOTTOM FLANGE AT MIDSPAN.	3	1	1	Feet
107	Corrosion	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	2	30		Feet
515	Effectiveness (Steel Protective Coatings)	LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.	3	139	139	Square Feet

General Comments

Span 1**Left Bridge Rail****Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	31	0	31	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Check/Shake	WEATHERED WITH MULTIPLE CHECKS/SHAKES, ESPECIALLY IN THE TOP RAIL.	2	31		Feet

General Comments

Span 1**Right Bridge Rail****Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	31	0	31	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Decay/Section Loss	WEATHERED WITH MULTIPLE CHECKS/SHAKES. DECAY UP TO 0.125" DEEP SCATTERED THROUGHOUT.	2	31		Feet

General Comments**End Bent 1****Pile 2****Timber Pile**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	SATURATED AND SOFT FOR 1' HIGH AT THE BASE OF THE POST.	2	1		Each

General Comments**End Bent 1****Pile 3****Timber Pile**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	SATURATED AND SOFT FOR 1' HIGH AT THE BASE OF THE POST.	2	1		Each

General Comments**End Bent 1****Pile 4****Timber Pile**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	SATURATED AND SOFT FOR 1' HIGH AT THE BASE OF THE POST.	2	1		Each

General Comments**End Bent 1****Pile 5****Timber Pile**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	SATURATED AND SOFT FOR 8" HIGH AT THE BASE OF THE POST.	2	1		Each

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	572
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	31
Span 1		Unknow	Steel Protective Coating	139
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	31
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	31
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	542
End Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	19
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	20
End Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	19
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Pile 3	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	20

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 100536

Inspection Date: 09/10/2020

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	7
Item 60: Substructure	0 - 9 , N	7
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	6

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation		L		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code		U		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	3
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: 100536

Inspection Date: 09/10/2020

Item	Channel and Channel Protection - Item 61	Grade	5	Maint Code		Qty.	0
Details	THE STREAM TURNS SOUTHWARD UNDERNEATH THE STRUCTURE AND IS BEGINNING TO ERODE THE STREAMBANK NEAR END BENT 1.						

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
Details	SV-22 TTST-29						

Item	Wingwalls	Grade	G	Maint Code	3350	Qty.	0
Details	STACKED STONE WINGWALLS						



Span 1 Right Bridge Rail: WEATHERED WITH MULTIPLE CHECKS/SHAKES. DECAY UP TO 0.125" DEEP SCATTERED THROUGHOUT.



Span 1 Left Bridge Rail: WEATHERED WITH MULTIPLE CHECKS/SHAKES, ESPECIALLY IN THE TOP RAIL.



Span 1 Beam 11: 6" WIDE X 0.75" HIGH UPWARD BEND IN THE RIGHT HALF OF THE BOTTOM FLANGE AT MIDSPAN.



Span 1 Beam 2: LOSS OF PAINT ALLOWING SURFACE CORROSION MAINLY ALONG THE TOP FLANGE AND SCATTERED ALONG THE EDGES OF THE BOTTOM FLANGE.



Span 1 Beam 1: RIGHT BOTTOM FLANGE HAS A 2" LONG X 1/2" DEEP UPWARD BEND AT 2' FROM THE END AT END BENT 1. THERE IS A SIMILAR AREA OF DISTORTION IN THE RIGHT BOTTOM FLANGE AT 1' 6" FROM THE END AT END BENT 2.

Stream Bed Soundings

(Profile diagram on following sheet)

County **BUNCOMBE**

Structure Number: **100536**

Inspection Date **09/10/2020**

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

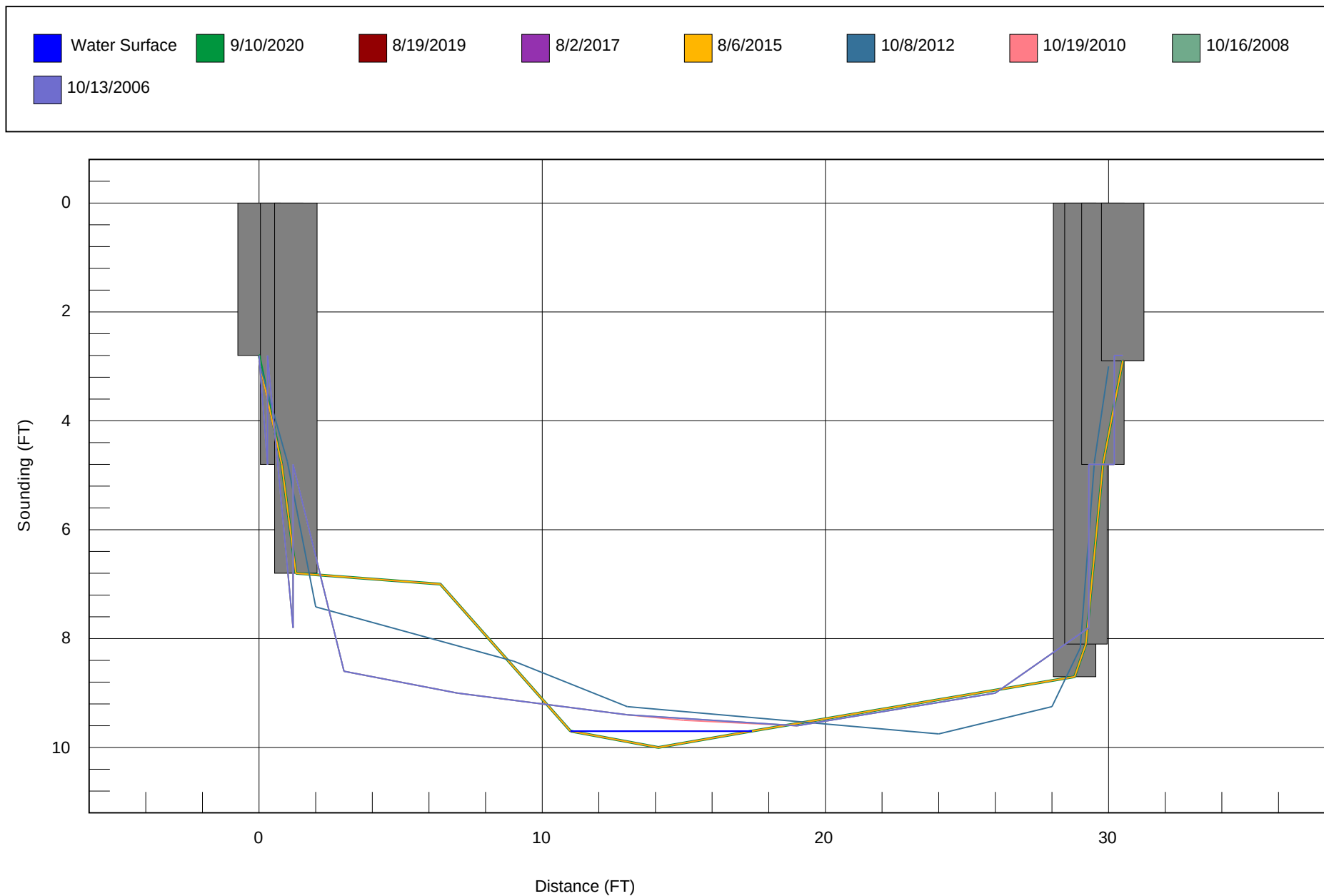
Highwater Mark Distance

Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.800	0.000	FF END BENT 1
0.800	4.800	0.000	TOP OF CAP END BENT 1
1.300	6.800	6.900	SF END BENT 1
6.400	7.000	0.000	TOP OF STREAM BANK
11.000	9.700	0.000	WSWE
14.100	10.000	0.000	THALWEG
17.400	9.700	0.000	WSWE
28.800	8.700	0.000	SF END BENT 2 FOOTING
29.200	8.100	8.300	SF END BENT 2
29.800	4.800	0.000	TOP OF CAP END BENT 2
30.500	2.900	0.000	FF END BENT 2

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

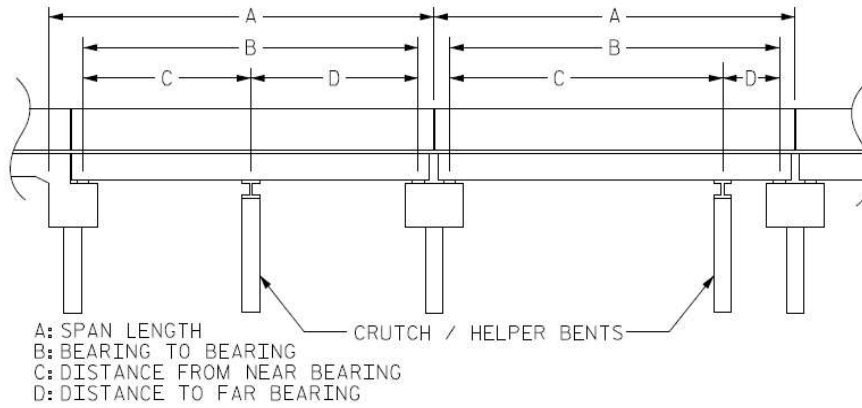


Structure Data Worksheet

Span Profile

County: **BUNCOMBE**

Structure Number: **100536**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	30.500	29.000			



NORTH APPROACH ONE LANE BRIDGE SIGN AT 100' FROM THE BRIDGE END. SOUTH APPROACH SIGN IS AT THE BRIDGE.



NORTH APPROACH LOOKING SOUTH



WEIGHT LIMIT SIGN



LOOKING UPSTREAM



LOOKING DOWNSTREAM



SOUTH APPROACH LOOKING NORTH



UPSTREAM PROFILE



END BENT 1



END BENT 2



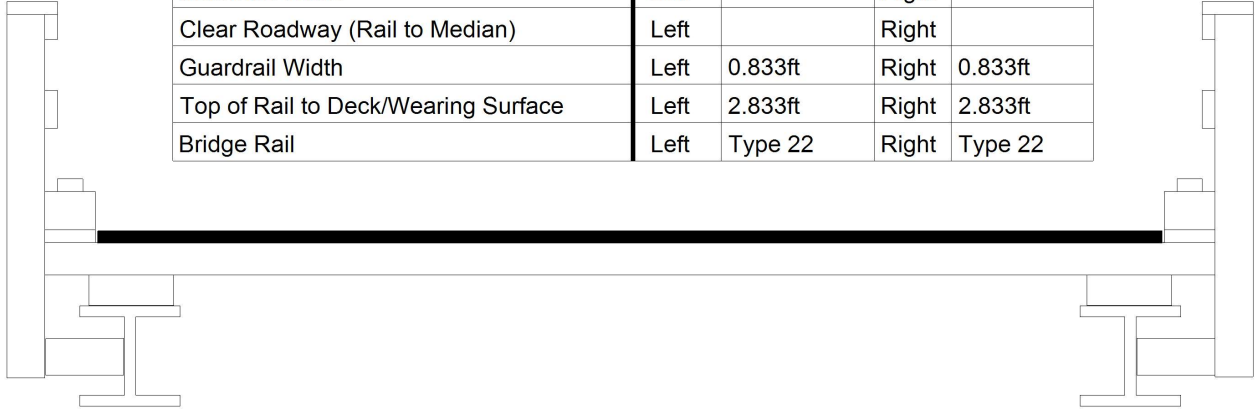
DECK UNDERSIDE



UPSTREAM PROFILE

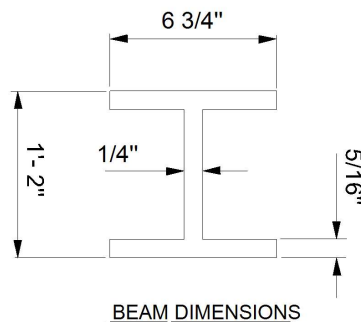
Bridge Inspection Field Sketch

Deck Width/Out to Out	18.75ft	Between Rails				18.417ft
Clear Roadway	17.75ft	Wearing Surface				0.250ft
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	0.833ft	Right	0.833ft	
Top of Rail to Deck/Wearing Surface		Left	2.833ft	Right	2.833ft	
Bridge Rail		Left	Type 22	Right	Type 22	



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	1.000
Top of Rail to Bottom of Beam	4.750	Right Overhang	1.000

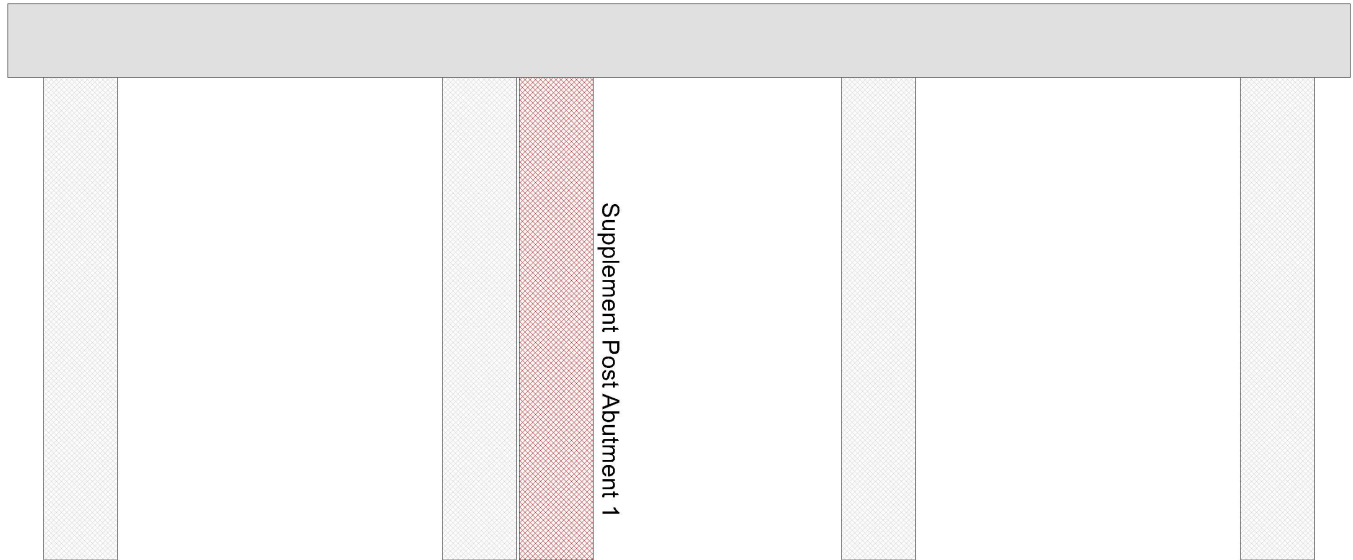
Beam No	Beam Type	Spacing
1 thru 11	Steel I Beam	1.675 ft. (+/-)



9/10/20 - J.C.HUNTSINGER

Title		Description	
Typical Section		Data Worksheet	
Bridge No:	100536	Drawn By: Roy W. Shook	Date: 10/16/2008
		File Name:	S0102000564

Bridge Inspection Field Sketch



Sills Not Visible

Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
18.500 ft.	1.000 ft.	1.020 ft.	1.000 ft.	1.000 ft.	.875 ft.	.875 ft.

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.500 ft.	1.021 ft.	1.000 ft.		Vertical	No	No	No	No
2	Timber	5.500 ft.	1.021 ft.	1.000 ft.		Vertical	No	No	No	No
3	Timber	5.500 ft.	1.021 ft.	1.000 ft.		Vertical	No	No	No	No
4	Timber	5.500 ft.	1.021 ft.	1.000 ft.		Vertical	No	No	No	No

Bent/Abutment #: 1	Similar Bents: 2
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9/10/20 - J.C.HUNTSINGER

Title			Description		
Substructure			Data Worksheet		
Bridge No:	100536	Drawn By:	Roy W. Shook	Date:	10/16/2008
			File Name:	S0102000565	

Bridge Inspection Field Sketch

INTENTIONALLY BLANK

Title		Description	
BLANK SHEET		BLANK	
Bridge No: 100536	Drawn By: Roy W. Shook	Date: 10/20/2010	File Name: S0102001267

Bridge Inspection Field Sketch

MEASUREMENTS TAKEN 100' FROM THE BRIDGE

Roadway	14ft Wide	2 Paved Lanes	Looking North
Left Guardrail			
Right Guardrail			

9/10/20 - J.C.HUNTSINGER

Title

Approach Roadway

Description

Data Worksheet

Bridge No: 100536

Drawn By: Roy W. Shook

Date: 10/16/2008

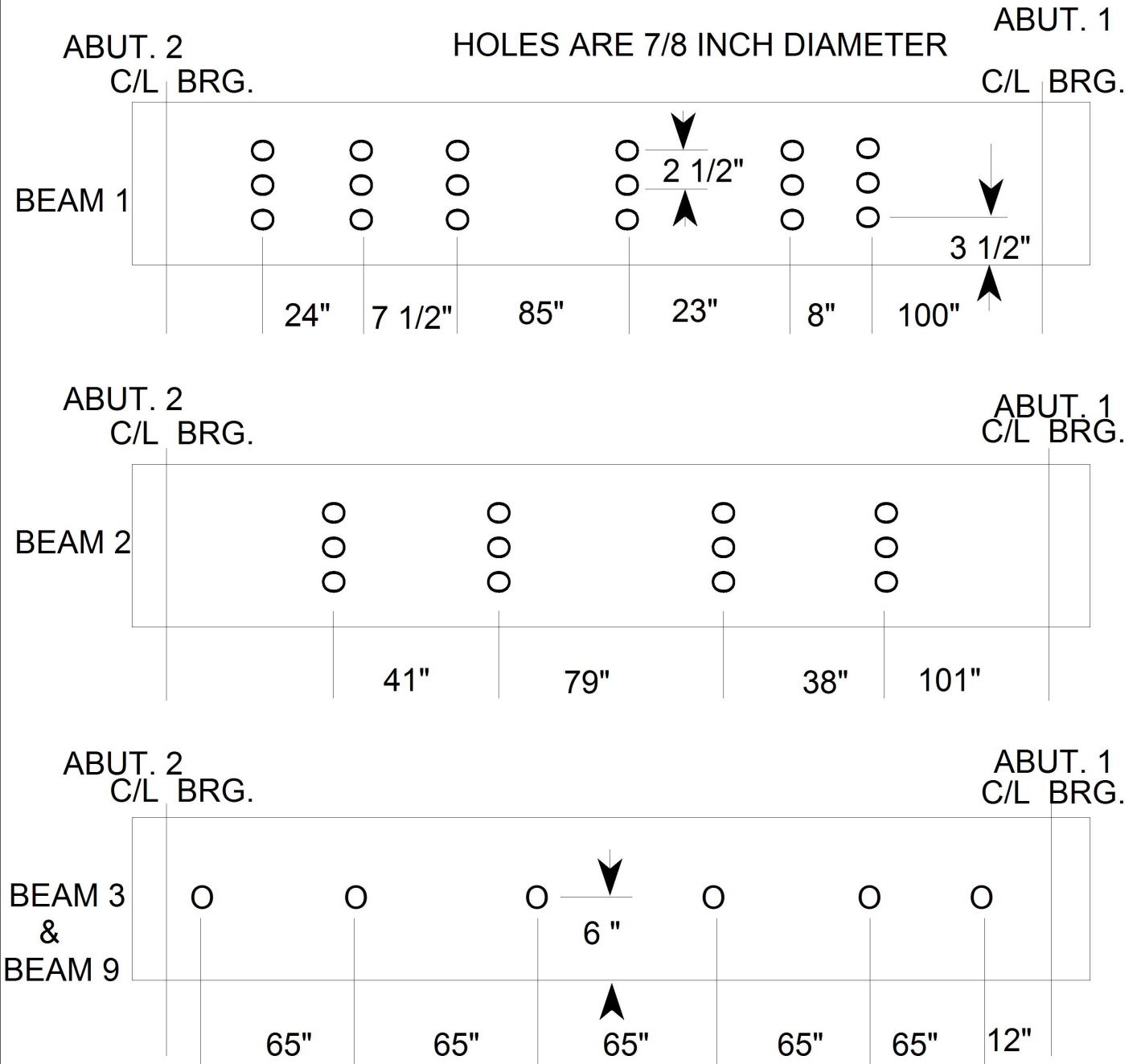
File Name: S0102000563

Bridge Inspection Field Sketch

HOLES IN WEBS OF BEAMS

MEASUREMENTS FROM C/L BEARING AT ABUTMENT 1.

NOT TO SCALE



9/10/20 - J.C.HUNTSINGER

Title

BEAMS

Description

HOLES IN WABS

Bridge No: 100536

Drawn By: MARK WADE

Date: 10/11/2012

File Name: S0222000751

Bridge Inspection Field Sketch

HOLES IN WEBS OF BEAMS

NOT TO SCALE

MEASUREMENTS FROM C/L BRG. AT ABUT. 1

ABUT. 2

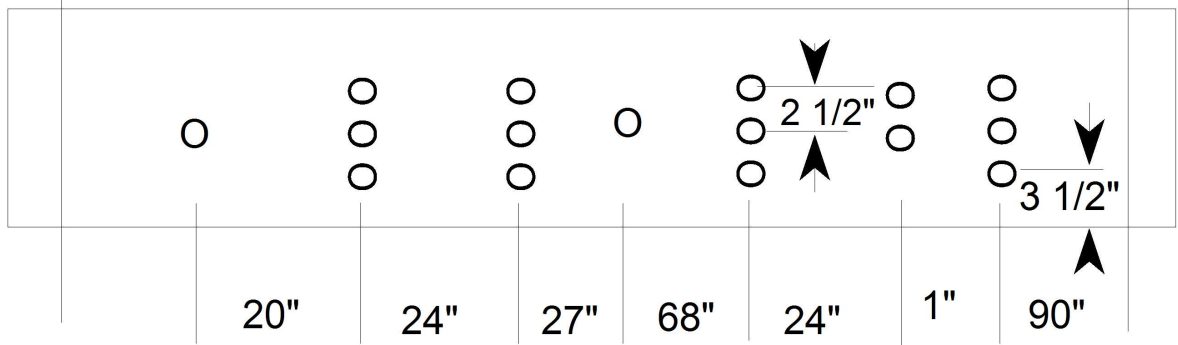
HOLES ARE 7/8" DIAMETER

ABUT. 1

C/L BRG.

C/L BRG.

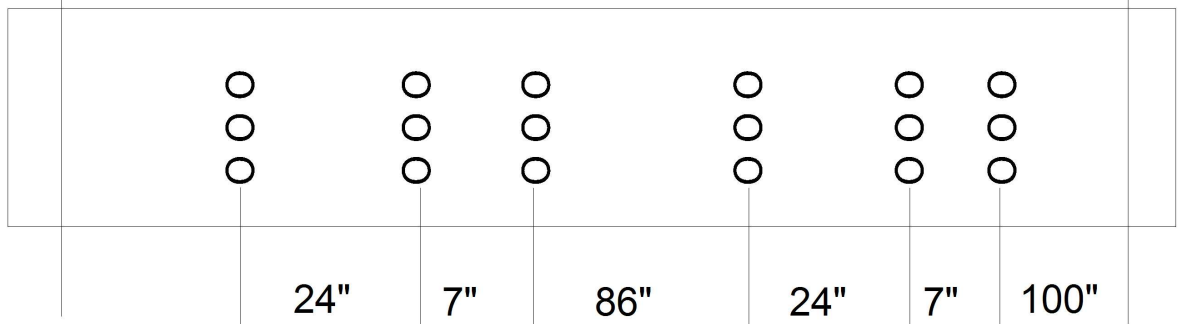
BEAM 10



ABUT. 2
C/L BRG.

ABUT. 1
C/L BRG.

BEAM 11



BEAMS 4 THRU 8 HAVE NO HOLES

9/10/20 - J.C.HUNTSINGER

Title

HOLES IN WEBS OF BEAMS

Description

BEAMS

Bridge No: 100536

Drawn By: MARK WADE

Date: 10/11/2012

File Name: S0222000752