



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **RED LEAD UNDERCOAT, PAR ISSUED, SALVAGE BEAMS.**

Structure Safety Report

Routine Element Inspection

INSPECTION DATE: 02/15/2022

DIVISION: 14 COUNTY: JACKSON STRUCTURE NUMBER: 490159 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1336 MILE POST: _____

LOCATION: 100'S.JCT.SR1338

FEATURE INTERSECTED: CULLOWHEE CREEK

LATITUDE: 35° 19' 2.04" LONGITUDE: 83° 10' 48.18"

SUPERSTRUCTURE: 4 TOP & 3 SUB. DIA. TIMBER FL00R ON I-BEAMS

SUBSTRUCTURE: YOUNT MASONRY ABUTMENTS

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

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 7/7 SUPERSTRUCTURE 7/7 SUBSTRUCTURE 7/7 CULVERT N/N

POSTED SV: 38 POSTED TTST: **Not Posted** Legal Gross Weight

OTHER SIGNS PRESENT: DELINEATORS 4



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>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

LOOKING NORTH

INSPECTED BY DAVID SANDERS	SIGNATURE 	ASSISTED BY J DILLS
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

03/15/2022

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 490159
 (8) STRUCTURE NUMBER (FEDERAL) 0990159
 (5) INVENTORY ROUTE (ON/UNDER) ON 131013360
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 14
 (3) COUNTY CODE (FEDERAL) 99 (4) PLACE CODE 71600
 (6) FEATURE INTERSECTED CULLOWHEE CREEK
 (7) FACILITY CARRIED SR1336
 (9) LOCATION 100'S.JCT.SR1338
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 19' 2.04" (17) LONGITUDE 83° 10' 48.18"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 53.92
 STATUS = Functionally Obsolete

CLASSIFICATION **CODE**

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Local 19
 (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 7
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD Unknown 0
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-28 51
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-17 30
 (70) BRIDGE POSTING Posting Required 4
 (41) STRUCTURE OPEN, POSTED, OR CLOSED
 DESCRIPTION Posted for Load P

AGE AND SERVICE

(27) YEAR BUILT 1975
 (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 3000
 (30) YEAR OF ADT 2016 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 99.0

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES, VERT & HORIZ N
 (71) WATERWAY ADEQUACY 8
 (72) APPROACH ROADWAY ALIGNMENT 6
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES 5

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 29.0
 (49) STRUCTURE LENGTH 33.0
 (50) CURB OR SIDEWALK: LEFT 0.3 RIGHT 0.3
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 24.2
 (52) DECK WIDTH OUT TO OUT 25.0
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 18.0
 (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 24.2
 (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

(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 6,000 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 02/22 (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 32.6700

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
20	Other Bearing	Other Bearings	20 Each	Unknown	20
2	Timber Rail	Timber Bridge Railing	66 Feet		
1	Asphalt Wearing Surface	Wearing Surface	790 Square Feet		
1	Timber Deck	Timber Deck	817 Square Feet		
10	Plate Girder	Steel Open Girder/Beam	330 Feet	Legacy Red Lead Primer Systems with Various Topcoats	1840

Structure Element Scoring

Structure Number: 490159

Inspection Date 2/15/2022

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	817	817	0	0	0
107	0	Steel Open Girder/Beam	Beam	330	312	16	2	0
515	107	Steel Protective Coating	Beam	1840	1560	280	0	0
217	0	Masonry Abutments	Abutments	60	59	1	0	0
316	0	Other Bearings	Bearing Device	20	19	0	1	0
515	316	Steel Protective Coating	Bearing Device	20	17	0	3	0
332	0	Timber Bridge Railing	Bridge Rail	66	66	0	0	0
510	0	Wearing Surface	Wearing Surfaces	790	690	100	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 490159

Inspection Date: 02/15/2022

MMS Code	Element Name	Defect Name	Recommended Quantity
3314	Steel Open Girder/Beam	Corrosion	2 Feet
3334	Other Bearings	Corrosion	1 Each
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	3 Square Feet

Element Structure Maintenance Quantities

Structure Number: 490159

Inspection Date 02/15/2022

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	60	0	0	1	59
Beam	3314	Maintenance Steel Superstructure Components	2	330	0	2	16	312
Beam	3342	Clean and Paint Steel	0	1840	0	0	280	1560
Bearing Device	3334	Bridge Bearing	1	20	0	1	0	19
Bearing Device	3342	Clean and Paint Steel	3	20	0	3	0	17
Bridge Rail	3316	Maintenance of Timber Bridge Rail	0	66	0	0	0	66
Deck	3324	Maintenance of Timber Deck Components	0	817	0	0	0	817
Wearing Surfaces	2816	Asphalt Surface Repair	0	790	0	0	100	690

Priority Actions Request

Structure Number 490159

Span1

3314 Beam 10 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 10: SECTION LOSS TO BOTTOM FLANGE AT ABUTMENT 2, REMAINING THICKNESS IS .0104 DOWN TO KNIFE EDGE, PAR ISSUED

Element Condition and Maintenance Data

Structure Number: 490159

Inspection Date: 02/15/2022

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	790	690	100	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	SCATTERED CRACKING THROUGH OUT WEARING SURFACE. CRACKING IS UP TO .0104.	2	100		Square Feet

General Comments

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	33	33	0	0	0	Feet
515	Steel Protective Coating	184	154	30	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINTE PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	30		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	33	25	8	0	0	Feet
515	Steel Protective Coating	184	154	30	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	SURFACE RUST SCATTERED THROUGH OUT TOP AND BOTTOM FLANGES. NO LOSS OF SECTION	2	8		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINTE PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	30		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	33	33	0	0	0	Feet
515	Steel Protective Coating	184	159	25	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINTE PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	25		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	33	33	0	0	0	Feet
515	Steel Protective Coating	184	154	30	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINT PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	30		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	33	33	0	0	0	Feet
515	Steel Protective Coating	184	159	25	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINT PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	25		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	33	33	0	0	0	Feet
515	Steel Protective Coating	184	154	30	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINT PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	30		Square Feet
General Comments						

Span 1 **Near Bearing**
Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION THROUGH OUT PLATE.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING NO LONGER IN PLACE.	3	1	1	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	33	25	8	0	0	Feet
515	Steel Protective Coating	184	159	25	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	SURFACE RUST SCATTERED THROUGH OUT TOP AND BOTTOM FLANGES. NO LOSS OF SECTION	2	8		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINT PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	25		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	33	33	0	0	0	Feet
515	Steel Protective Coating	184	154	30	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINT PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	30		Square Feet

General Comments**Span 1** **Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	1	0	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Effectiveness (Steel Protective Coatings)	COATING NO LONGER IN PLACE.	3	1	1	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	33	33	0	0	0	Feet
515	Steel Protective Coating	184	159	25	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINT PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	25	Square Feet
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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	33	31	0	2	0 Feet
515	Steel Protective Coating	184	154	30	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	SECTION LOSS TO BOTTOM FLANGE AT ABUTMENT 2, REMAINING THICKNESS IS .0104 DOWN TO KNIFE EDGE, PAR ISSUED	3	2	2 Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PAINT PEELING AND DISCOLARING TO TOP AND BOTTOM FLANGES.	2	30	Square Feet

General Comments

Span 1

Near Bearing

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	1	0	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
515	Effectiveness (Steel Protective Coatings)	COATING NO LONGER IN PLACE.	3	1	1 Square Feet

General Comments

Bent 1

Abutment

Masonry Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
217	Masonry Abutments	30	29	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
217	Split/Spall (Masonry)	1" DEEP X 5" ROUND AREA OF SPALLING UNDER BEAM 6	2	1	Feet

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	33
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	33
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	33
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	790
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
End Bent 1	Abutment	Masonry Abutment	Masonry Abutments	30
End Bent 2	Abutment	Masonry Abutment	Masonry Abutments	30

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 490159

Inspection Date: 02/15/2022

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	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	8
Item 72: Approach Roadway Alignment	0 - 9 , N	6

Note:

Items 58,59,60,62 reflect this inspection only.

For overall NBI coding grade, see cover sheet.

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	G		
Wingwall	G, F, P, or C			
Field Scour Evaluation		G		
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		
Superstructure Paint Code		A		

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	Y
Inspection Time	Hours	2.5
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
Portion of Structure in > 3' of water	YES/NO	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 490159

Inspection Date: 02/15/2022

Item	General Comments and Misc Items	Grade	Maint Code	Qty.	0
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Details OLD UTILITY AT ABUTMENT 1 NOT ATTACHED.

Item	Portion of structure in > 3' of water (Y or N)	Grade	Y	Maint Code	Qty.	0
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Details ABUTMENT 2



Span 1 Beam 10: SECTION LOSS TO BOTTOM FLANGE AT ABUTMENT 2, REMAINING THICKNESS IS .0104 DOWN TO KNIFE EDGE, PAR ISSUED



Span 1 Beam 2: SURFACE RUST SCATTERED THROUGH OUT TOP AND BOTTOM FLANGES. NO LOSS OF SECTION



Span 1 Beam 7: SURFACE RUST SCATTERED THROUGH OUT TOP AND BOTTOM FLANGES. NO LOSS OF SECTION



Span 1 Wearing Surface: SCATTERED CRACKING THROUGH OUT WEARING SURFACE. CRACKING IS UP TO .0104.



Bent 1 Abutment: 1" DEEP X 5" ROUND AREA OF SPALLING UNDER BEAM 6

Stream Bed Soundings

(Profile diagram on following sheet)

County **JACKSON**

Structure Number: **490159**

Inspection Date **02/15/2022**

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

Highwater Mark Distance **10**

Location of Highwater Mark **STATION 9**

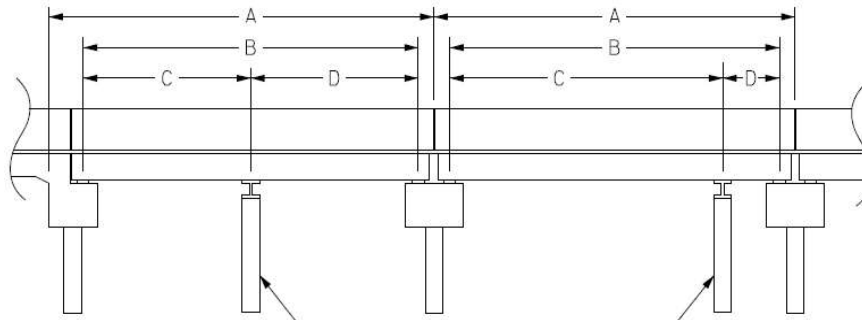
Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	3.400	3.200	FILL FACE ABUTMENT 1
2.000	5.563	0.000	TOP OF CAP
2.500	11.000	13.500	STREAM FACE ABUTMENT 1
9.000	11.900	0.000	WATER SURFACE/WATER EDGE (WSWE)
12.000	12.400	0.000	
20.000	14.800	0.000	
30.000	11.900	0.000	WATER SURFACE/WATER EDGE (WSWE)
30.000	16.300	13.400	STREAM FACE ABUTMENT 2
30.500	5.563	0.000	TOP OF CAP
32.667	3.300	3.000	FILL FACE ABUTMENT 2

Structure Data Worksheet

Span Profile

County: **JACKSON**

Structure Number: **490159**



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	32.670	29.167			



LOOKING NORTH



UPSTREAM FROM TOP



DOWNSTREAM FROM TOP



WEIGHT LIMIT SIGN



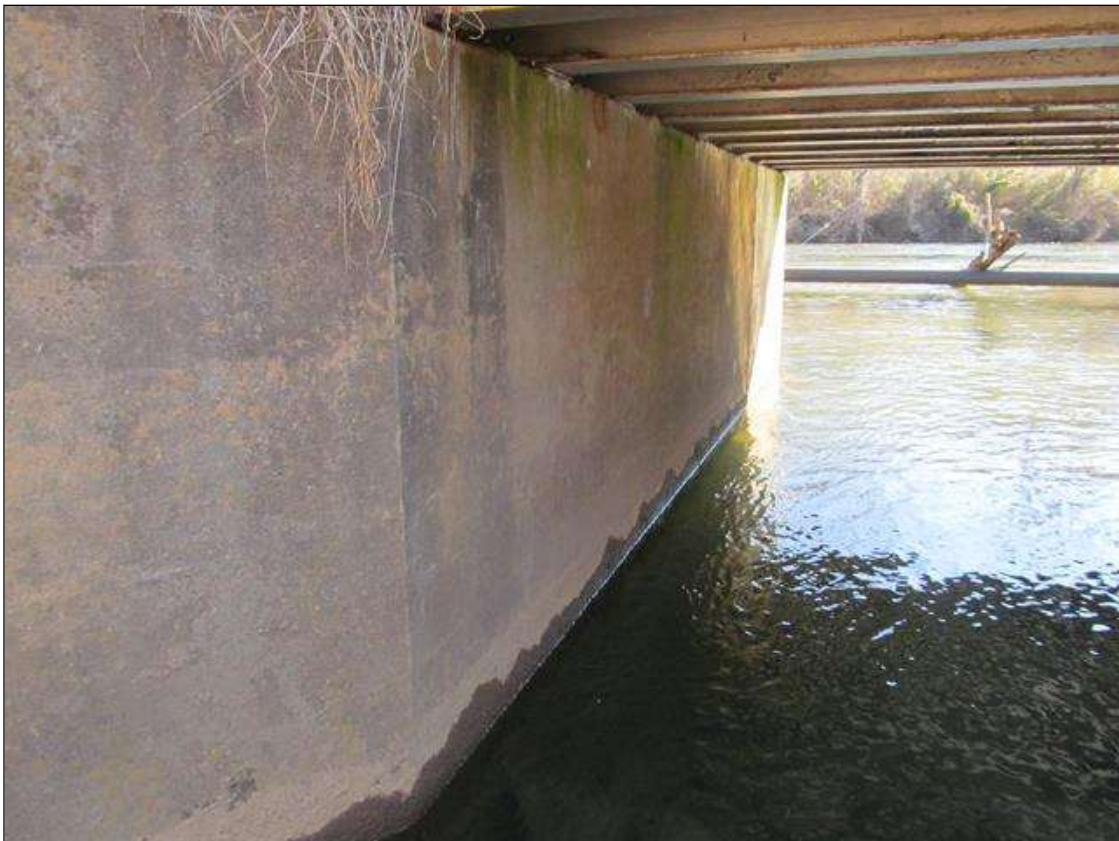
LOOKING SOUTH



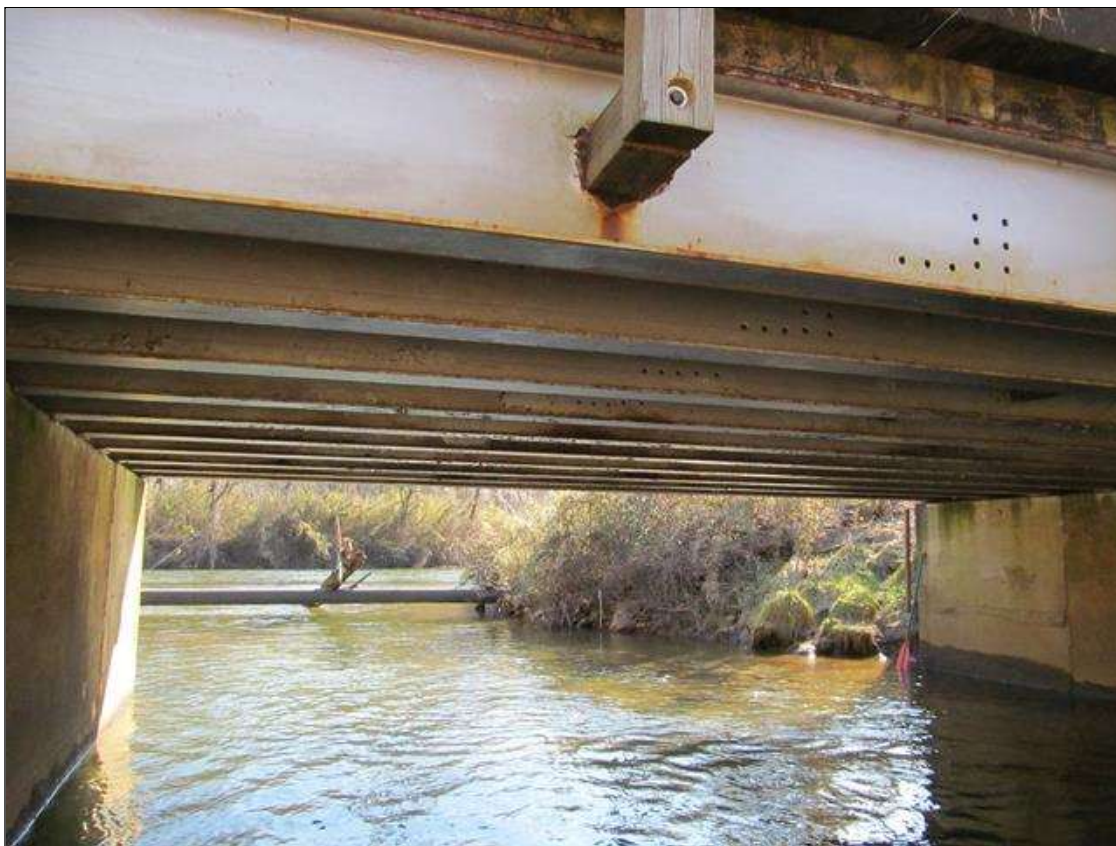
UPSTREAM



DOWNSTREAM



ABUTMENT 1 AND 2 PHOTO OF ABUTMENT 2



UNDERSIDE DECK



BEARING


BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 490159

County JACKSON

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	2	Span 1 Beam 10: SECTION LOSS TO BOTTOM FLANGE AT ABUTMENT 2, REMAINING THICKNESS IS .0104 DOWN TO KNIFE EDGE, PAR ISSUED	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 490159

County JACKSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
02/15/2022	DAVID SANDERS	
Details		
Span 1 Beam 10: SECTION LOSS TO BOTTOM FLANGE AT ABUTMENT 2, REMAINING THICKNESS IS .0104 DOWN TO KNIFE EDGE, PAR ISSUED		

Bridge Inspection Field Sketch

2/15/22 DES

APPROCH VIEW FROM SOUTH AT 32 FEET



Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail			
Right Guardrail			

Title
APPROACH ROADWAY

Description
APPROACH ROADWAY

Bridge No: 490159

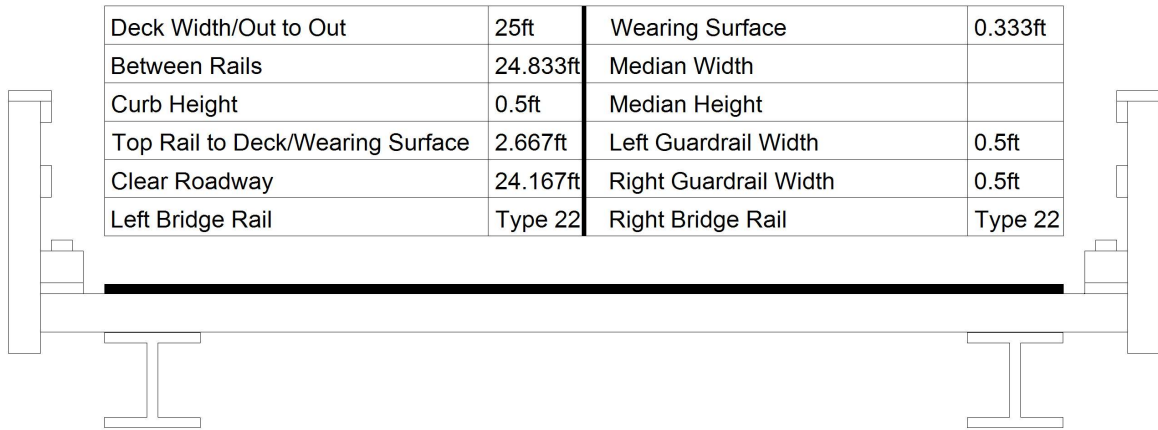
Drawn By: DAVID SANDERS

Date: 2/16/16

File Name: S0118001214

Bridge Inspection Field Sketch

2/15/22 DES



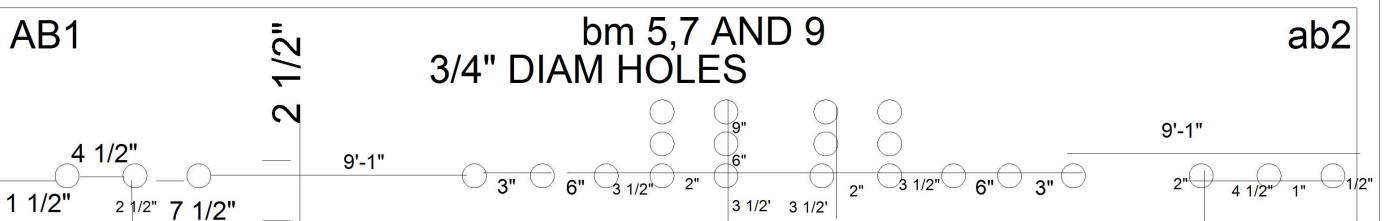
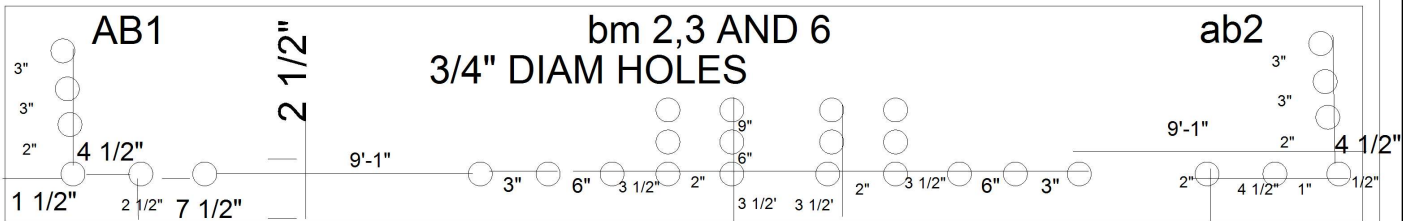
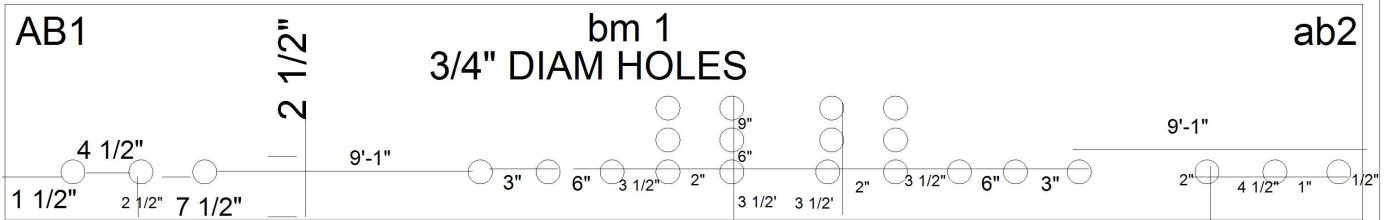
Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.5833ft	BEAMS ARE 1.5 HIGH WITH .6250 FLANGE
2	Steel I Beam	2.5833ft	WIDTH AND .0417 FLANGE THICKNESS AND
3	Steel I Beam	2.5833ft	.0313 WEBS. NONTAPERED.
4	Steel I Beam	2.5833ft	
5	Steel I Beam	2.5833ft	DIAPHS. AT MIDSPAN. .3333 FROM BOTTOM
6	Steel I Beam	2.5833ft	OF DIAPHS. TO BOTTOM OF BEAMS.
7	Steel I Beam	2.5833ft	
8	Steel I Beam	2.5833ft	
9	Steel I Beam	2.5833ft	
10	Steel I Beam		

FLOOR IS DOUBLED - TOP LAYER IS .2292 X .6458.
 BOTTOM LAYER IS .3125 X .6458.

ABUTMENTS ARE YOUNT MASONRY

Title SUPER		Description SUPER	
Bridge No: 490159	Drawn By: DAVID SANDERS	Date: 2/16/16	File Name: S0118001215

Bridge Inspection Field Sketch

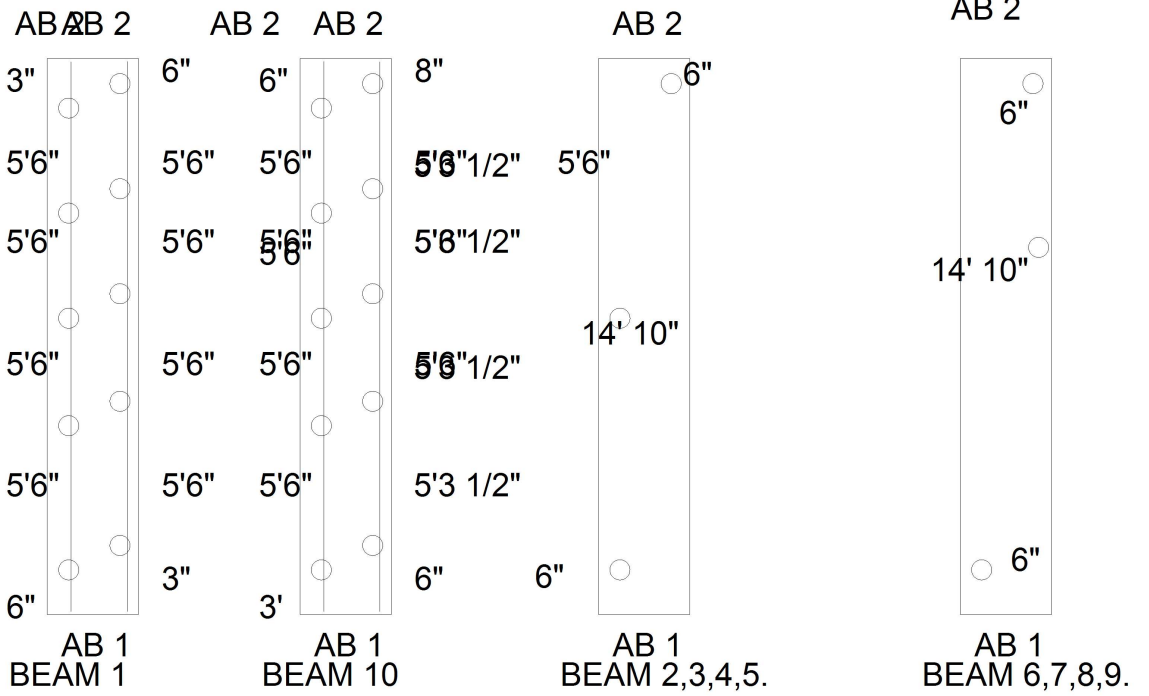


3/4" DIAM. HOLES BEGINNING AT 2' THEN EVERY 5' ACROSS BM.FROM ABUT. 1 BM. END UP 8 1/4" FROM FLG.

2/15/22 DES

Title holes in beams part 1		Description details	
Bridge No: 490159	Drawn By: derek rickus	Date: 8/17/2016	File Name: S0118003062

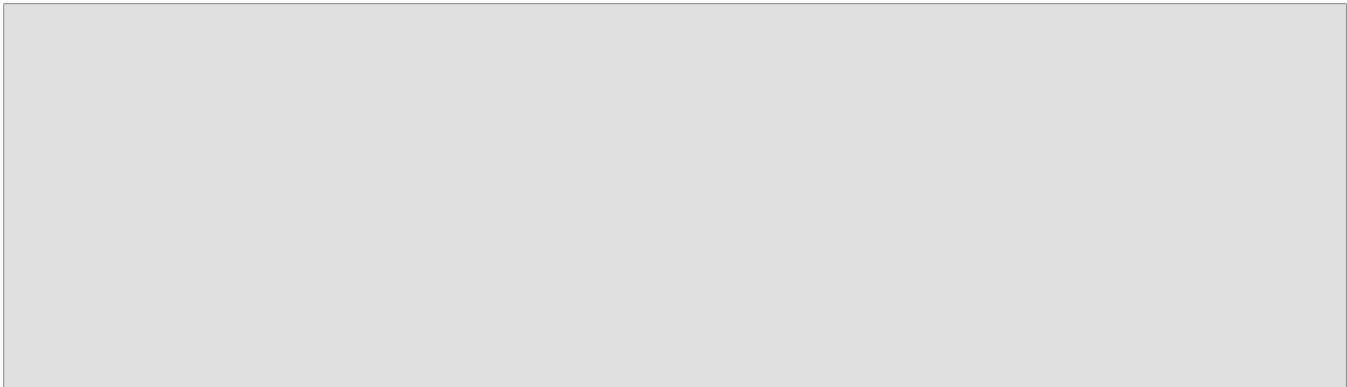
Bridge Inspection Field Sketch



2/15/22 DES

Title		Description	
HOLES IN TOP FLG.		DETAILS	
Bridge No:	490159	Drawn By:	DAVID SANDERS
		Date:	8/17/2016
		File Name:	S0118003063

Bridge Inspection Field Sketch



2/15/22 DES

Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
35.000 ft.	3.000 ft.	10.000 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?
Bent/Abutment #: 1			Similar Bents:							

Title ABUTMENT				Description ABUTMENT			
Bridge No: 490159	Drawn By: DAVID SANDERS			Date: 2/17/2020	File Name: S0118003722		