



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PM ISSUED / STRUCTURE DATA CHANGES / TEMP
REPAIRS: ENCASED PILES

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROBESON BRIDGE NUMBER 770413 INSPECTION CYCLE 2 YRS

ROUTE SR1323 ACROSS WATSONS POND M.P. 0

LOCATION 0.1 M.I.E.JCT.SR1325

SUPERSTRUCTURE PRECAST CONCRETE SLAB

SUBSTRUCTURE END BTS.&INT.BT:PRECAST CONC.CAPS/TIMBER PILES

SPANS 2@14'2

LONGITUDE 79° 11' 23.72"

LATITUDE 34° 50' 1.23"

INSPECTION DATE 08/19/2014

PRESENT CONDITION FAIR

PRESENT POSTING N NOT POSTED

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING EAST (WATSON MILL ROAD)

Fracture Critical No

Temporary Shoring No

Scour Critical No

Scour POA Yes

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No WEIGHT LIMIT

No DELINEATORS

No NARROW BRIDGE

No ONE LANE BRIDGE

No LOW CLEARANCE

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

Run Date: 09/15/2014

IDENTIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770413	SUFFICIENCY RATING = 39.93
(8) STRUCTURE NUMBER(FEDERAL)	000000001550413		STATUS = Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON	31013230		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		
(3) COUNTY CODE 155 (4) PLACE CODE	0		
(6) FEATURE INTERSECTED - WATSONS POND			
(7) FACILITY CARRIED SR1323			
(9) LOCATION 0.1 M.I.E.JCT.SR1325			
(11)MILEPOINT	0		
(16)LAT 34° 50' 1.23" (17)LONG 79° 11' 23.72"			
(98)BORDER BRIDGE STATE CODE	PCT SHARE		
(99)BORDER BRIDGE STRUCTURE NO			
STRUCTURE TYPE AND MATERIAL			
(43) STRUCTURE TYPE MAIN: Prestressed Concrete			
TYPE - Slab	CODE 501		
(44) STRUCTURE TYPE APPR :			
TYPE -	CODE 000		
(45) NUMBER OF SPANS IN MAIN UNIT	2		
(46) NUMBER OF APPROACH SPANS			
(107)DECK STRUCTURE TYPE - 2	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	1954		
(106)YEAR RECONSTRUCTED			
(42) TYPE OF SERVICE : ON - Highway			
UNDER - Waterway	CODE 15		
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0		
(29) AVERAGE DAILY TRAFFIC	70		
(30) YEAR OF ADT 1991 (109) TRUCK ADT PCT	%		
(19) BYPASS OR DETOUR LENGTH	4 MI		
GEOMETRIC DATA			
(48) LENGTH OF MAXIMUM SPAN	13 FT		
(49) STRUCTURE LENGTH	28 FT		
(50)CURB OR SIDEWALK: LEFT .4165 FT RIGHT .4165 FT			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	24.167 FT		
(52) DECK WIDTH OUT TO OUT	25.583 FT		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	18 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	24.167 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		
CLASSIFICATION			
(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			
(58) DECK	5		
(59) SUPERSTRUCTURE	5		
(60) SUBSTRUCTURE	4		
(61) CHANNEL & CHANNEL PROTECTION	7		
(62) CULVERTS	N		
LOAD RATING AND POSTING			
(31) DESIGN LOAD HS 15	3		
(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 - No Posting Required	5		
(41) STRUCTURE OPEN, POSTED ,OR CLOSED	D		
DESCRIPTION - Open Temporary Shoring			
APPRAISAL			
(67) STRUCTURAL EVALUATION	3		
(68) DECK GEOMETRY	6		
(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 140 (115) YEAR FUTURE ADT 2025			
INSPECTIONS			
(90) INSPECTION DATE		08/19/2014	
(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: 09/15/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770413	28	FEET
ROUTE CARRIED :		FEATURE INTERSECTED :			
SR1323		WATSONS POND			
LOCATED :		BRIDGE NAME :		CITY :	
0.1 MI.E.JCT.SR1325					
FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :	
09	NFA	NFA	70 1991	LT 253	RT 253
BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :	
1954	BMU	5.4651		HS 15	
REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN	90	ON 2 UNDER 0
NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :
VC 0 FT	HC 0 FT		10 FT		1 FT
SUPERSTRUCTURE : PRECAST CONCRETE SLAB					
SUBSTRUCTURE : END BTS.&INT.BT:PRECAST CONC.CAPS/TIMBER PILES					
SPANS : 2@14'2					
BEAMS OR GIRDERS : 6 PRESTRESSED CONCRETE CORED SLAB SECTIONS					
FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :			
8.5 RC/2.5 AWS		25.583 FT			
CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
24.167 FT	25 FT	LT	.4165 FT	RT	.4165 FT
VERT.CL.OVER : 999.9 FT					
INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE 07/19/1983
HS-1	HS-1		SV		
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N		
UNDER ROUTES AND CLEARANCES					

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 770413 COUNTY ROBESON ROUTE SR1323 OVER WATSONS POND
 STRUCTURE TYPE PRECAST CONCRETE SLAB
 ROUTE ORIENTATION W - E SPANS 2@14'2

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM				ITEM 61		
DECK ITEMS				GRADES		
1. WEARING SURFACE				F		
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	2	F	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	G
	b. TIMBER				b. ALIGNMENT	G
	c. STEEL PLANK				c. SCOUR	G
	d. OPEN GRID				d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
3. RAILING				50. APPROACH ROADWAY CONDITION		
a. CONCRETE				51. APPROACH SLABS		
b. TIMBER				52. PAINT SYSTEM CODE		
c. ALUMINUM				53. UTILITIES		
d. STEEL				54. RESPONSE TO LIVE LOAD		
				55. ESTIMATED REMAINING LIFE		
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS				G		
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				61. PROMPT-ACTION NOTICE ISSUED		
a. STEEL PL OR FINGER				62. PRESENTLY POSTED		
b. MISC PREFAB				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
c. COMPRESSION SEAL				64. TOTAL SNOOPER INSP. TIME (HRS)		
d. STANDARD JOINTS				65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		
e. OPEN JOINTS						
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)				F		
				70. SI&A GENERAL CONDITION RATINGS		
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK ITEM 58		
10. LONGITUDINAL BEAMS OR GIRDERS				F		
11. LONGITUDINAL JOIST OR STRINGERS				b. SUPERSTRUCTURE ITEM 59		
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				c. SUBSTRUCTURE ITEM 60		
13. END DIAP'S, CURTAIN WALLS, & CONN'S				d. CHANNEL & CHANNEL PROT. ITEM 61		
14. FLOOR BEAMS AND CONNECTIONS						
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				71. SI&A FIELD APPRAISAL RATINGS		
16. DRAINAGE SYSTEM (ON STRUCTURE)				a. WATERWAY ADAQUACY		
17. MOVABLE SPAN MACHINERY				b. APPR. RDWY. ALIGNMENT		
				72. FIELD SCOUR EVALUATION		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)						
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			USE OF INSP. ACCESSIBILITY EQUIPMENT		
	b. PILES, POST, SILLS, & BRACING		F	SNOOPER (CODE S, 4, OR N)		HRS
	c. BULKHEADS, WING'S, & TIE BACKS		F	LADDER		NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		G	BUCKET TRUCK		NO
	b. ABUT. & BENT COL'S BREASTWALLS			BOAT		NO
	c. ABUT. & INT. BENT PILES			OTHER		YES
	d. BACKWALLS, WING'S, RETAIN. WALLS					
	e. ABUT. & BENT FOOTINGS & SILLS					
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			SPECIAL INSPECTION REQUESTED FOR		
	b. PILES, BRACING, AND BULKHEADS					
38. FOUNDATION PILES TYPE MATERIAL				NOTE		
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)						
40. FENDER SYSTEMS				80. INSPECTED BY:		
41. DRIFT				G		
				81. REVIEWED BY:		

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

BRIDGE: **770413**

County

RobesonDATE: **9/1/2014**

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 :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	4	TSE 9/1/14
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

Some piles have been encased with concrete.

Temporary Repair.

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
1	F	(ASPHALT WEARING SURFACE) THERE IS A 1/8" TO 3/16" LONGITUDINAL CRACK IN ASPHALT WEARING SURFACE AT SPANS 1 AND 2 LEFT SHOULDER. (PHOTO) THERE ARE LONGITUDINAL CRACKS UP TO 1/4" WIDE IN SPAN 1 ASPHALT WEARING SURFACE, OVER SLAB JOINTS. (PHOTO) THERE IS A 1/4" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT. (PHOTO) THERE ARE 1/4" WIDE LONGITUDINAL CRACKS IN SPAN 2 ASPHALT WEARING SURFACE, OVER SLAB JOINTS. (PHOTO)	
2a	F	(CONC DECK) THERE ARE 2 SPANS PRECAST CONCRETE SLABS NOTED. SEE ITEM 10.	
4	G	(CONC CURBS) FEW HAIRLINE MAP CRACKS NOTED IN THE SOUTH CURB. (PHOTO)	
6d	F	(STD JOINT) SIGNS OF LEAKAGE ON CAP.	
7	F	(DECK DEBRIS) THERE IS VEGETATION ALONG BOTH CURB LINES. (PHOTOS)	
10	F	(PRE CAST SLABS) THERE IS A HAIRLINE TRANSVERSE CRACK WITH EFFLORESCENCE IN SLAB 2 UNDERSIDE AT SPAN 2. (PHOTO)	
10A	NO	(CURVED GIRDERS) NO CURVED GIRDERS.	
16	F	(DRAINAGE SYSTEM) ALL DRAINS ARE BLOCKED BY VEGETATION. (PHOTOS)	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
35b	F	(TIMBER PILES) PILE 4 AT END BENT 2 IS ENCASED, TEMPORARY REPAIR. (PHOTO) BENT 1 SPAN 2 TIMBER CROSSBRACING IS DECAYED AT PILES 3 AND 4. (PHOTO) END BENT 2 PILE 2 HAS A 1/4" WIDE X UP TO 1" DEEP VERTICAL CRACK. (PHOTO) PILE 2 AT BENT 1, NORTH FACE HAS A 1/4" WIDE X FULL HEIGHT X UP TO 2 1/2" DEEP VERTICAL CRACK. (PHOTO) PILES 2 AND 5 AT END BENT 1 ARE ENCASED, TEMPORARY REPAIRS. (PHOTO) PILE 3 AT END BENT 1 NORTH FACE IS SURFACE DECAYED 2' HIGH X 6" WIDE X 1" DEEP. (PHOTO) PILE 5 AT BENT 1, NORTHWEST FACE HAS A 1/8" WIDE X 3' HIGH X 1" DEEP VERTICAL CRACK. (PHOTO)	
35c	F	(TIMBER BULKHEAD AND WINGWALLS) THE END BENT 2 BULKHEAD IS DECAYED WITH FILL LEAKAGE BETWEEN PILES 2 AND 3. (PHOTO) PM ISSUED. THERE ARE DECAYED WINGWALL BOARDS AT NORTHEAST CORNER. (PHOTO) THERE ARE DECAYED EXTERIOR BULKHEAD BOARDS AT NORTHEAST CORNER. (PHOTO) THE NORTHEAST CORNER EXTERIOR BULKHEAD HAS DECAYED BOARDS AT TOP PORTION. (PHOTO) THE SOUTHEAST CORNER EXTERIOR BULKHEAD BOARD IS DECAYED AT END PORTION. (PHOTO) THERE ARE DECAYED WINGWALL BOARDS WITH FILL EXPOSED AT SOUTHEAST CORNER. (PHOTO) THE NORTHWEST CORNER EXTERIOR BULKHEAD CLEAT IS DECAYED AT TOP PORTION. (PHOTO)	
41	G	(DRIFT) THERE IS DRIFT 6" DIAMETER X 10' LONG LOG UPSTREAM NORTH AT SPAN 1. (PHOTO)	
45a	G	(WATERWAY) DOWNSTREAM FLOWS TOWARD THE SOUTH. THERE IS AQUATIC VEGETATION IN STREAM ON SOUTH SIDE IN BOTH SPANS. THERE IS AQUATIC VEGETATION ON UPSTREAM SIDE AT BOTH SPANS.	
45c	G	(SCOUR) SCOUR POA: IF MORE THAN 4' SCOUR AT BENTS FROM 2008 -09 REPORT, CONTACT HYDRAULIC UNIT. SEE SCOUR REPORT DATED 6/24/2010.	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
50	F	(APPROACH ROADWAYS) THERE IS VEGETATION OVER RAIL AT SOUTHWEST CORNER. (PHOTO) THERE IS VEGETATION OVER RAIL AT NORTHWEST CORNER. (PHOTO) THE WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED UP TO 1". (PHOTO) THERE IS A TRANSVERSE CRACK UP TO 1/2" WIDE IN WEST APPROACH OVER END BENT 1. (PHOTO) THERE IS A 1/4" TO 3/8" WIDE TRANSVERSE CRACK IN EAST APPROACH ASPHALT WEARING SURFACE OVER END BENT 2. (PHOTO) THERE IS A 1/2" WIDE LONGITUDINAL CRACK IN EAST APPROACH EAST BOUND LANE. (PHOTO)	
61	YES	(PM ISSUED) ON END BENT 2 BULKHEAD DECAY WITH FILL LEAKAGE	
73f	YES	(OTHER EQUIPMENT) BOOTS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770413

County ROBESON

Date: 08/19/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3346	Repair / Maintain Timber Wings & Blkhds	SF	5 TSE	THE END BENT 2 BULKHEAD IS DECAYED WITH FILL LEAKAGE BETWEEN PILES 2 AND 3	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE ARE 1/4" WIDE LONGITUDINAL CRACKS IN SPAN 2 ASPHALT WEARING SURFACE, OVER SLAB JOINTS	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE ARE LONGITUDINAL CRACKS UP TO 1/4" WIDE IN SPAN 1 ASPHALT WEARING SURFACE, OVER SLAB JOINTS	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE IS A 1/4" TO 3/8" WIDE TRANSVERSE CRACK IN EAST APPROACH ASPHALT WEARING SURFACE OVER END BENT 2	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE IS A 1/8" TO 3/16" LONGITUDINAL CRACK IN ASPHALT WEARING SURFACE AT SPANS 1 AND 2 LEFT SHOULDER	
2816	Asphalt Surface Repair or Replacement	SY	1	THE WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED UP TO 1"	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE IS A 1/4" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT	
2910	Manual Brush and Tree Control	LF	10	THERE IS VEGETATION OVER RAIL AT SOUTHWEST CORNER	
2910	Manual Brush and Tree Control	LF	10	THERE IS VEGETATION OVER RAIL AT NORTHWEST CORNER	
3344	Repair / Replace Timber Substructure Components	LF	20	BENT 1 SPAN 2 TIMBER CROSSBRACING IS DECAYED AT PILES 3 AND 4	
3346	Repair / Maintain Timber Wings & Blkhds	SF	2	THE NORTHEAST CORNER EXTERIOR BULKHEAD HAS DECAYED BOARDS AT TOP PORTION	
3346	Repair / Maintain Timber Wings & Blkhds	SF	2	THERE ARE DECAYED EXTERIOR BULKHEAD BOARDS AT NORTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	3	SOUTHEAST CORNER EXTERIOR BULKHEAD BOARD IS DECAYED AT END PORTION	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770413

County ROBESON

Date: 08/19/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3346	Repair / Maintain Timber Wings & Blkhds	SF	4	THERE ARE DECAYED WINGWALL BOARDS AT NORTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	4	THERE ARE DECAYED WINGWALL BOARDS WITH FILL EXPOSED AT SOUTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	2	NORTHWEST CORNER EXTERIOR BULKHEAD CLEAT IS DECAYED AT TOP PORTION	
3376	Clean/Wash Bridge Decks	SF	25	THERE IS VEGETATION ALONG RIGHT CURB	
3376	Clean/Wash Bridge Decks	SF	25	THERE IS VEGETATION ALONG LEFT CURB	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770413

County ROBESON

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	5 SF
Location:		
Abutment Substructure	Bent/Span No. 2	EBT2 BULKHEAD BOARDS
Priority Level	Status	
Priority Maintenance	SIA Updates in Process	
Submitted Date:	Submitted By:	Assisted By:
08/19/2014	R.D.HEATH	R.L.KISNER
Details		
THE END BENT 2 BULKHEAD IS DECAYED WITH FILL LEAKAGE BETWEEN PILES 2 AND 3		



THERE IS VEGETATION OVER RAIL AT SOUTHWEST CORNER



THERE IS VEGETATION OVER RAIL AT NORTHWEST CORNER



THE WEST APPROACH ASPHALT WEARING SURFACE IS SETTLED UP TO 1"



THERE IS A TRANSVERSE CRACK UP TO 1/2" WIDE IN WEST APPROACH OVER END BENT 1



THERE IS VEGETATION ALONG LEFT CURB



THERE IS VEGETATION ALONG RIGHT CURB



THERE IS A 1/8" TO 3/16" LONGITUDINAL CRACK IN ASPHALT WEARING SURFACE AT SPANS 1 AND 2 LEFT SHOULDER



THERE ARE LONGITUDINAL CRACKS UP TO 1/4" WIDE IN SPAN 1 ASPHALT WEARING SURFACE, OVER SLAB JOINTS



THERE IS A 1/4" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT



THERE ARE 1/4" WIDE LONGITUDINAL CRACKS IN SPAN 2 ASPHALT WEARING SURFACE, OVER SLAB JOINTS



THERE IS A 1/4" TO 3/8" WIDE TRANSVERSE CRACK IN EAST APPROACH ASPHALT WEARING SURFACE
OVER END BENT 2



THERE IS A 1/2" WIDE LONGITUDINAL CRACK IN EAST APPROACH EAST BOUND LANE



THE SOUTH CURB HAS HAIRLINE MAP CRACKING IN BOTH SPANS



ALL RIGHT CURB DRAINS ARE BLOCKED BY DEBRIS AND VEGETATION



ALL LEFT CURB DRAINS ARE BLOCKED BY DEBRIS AND VEGETATION



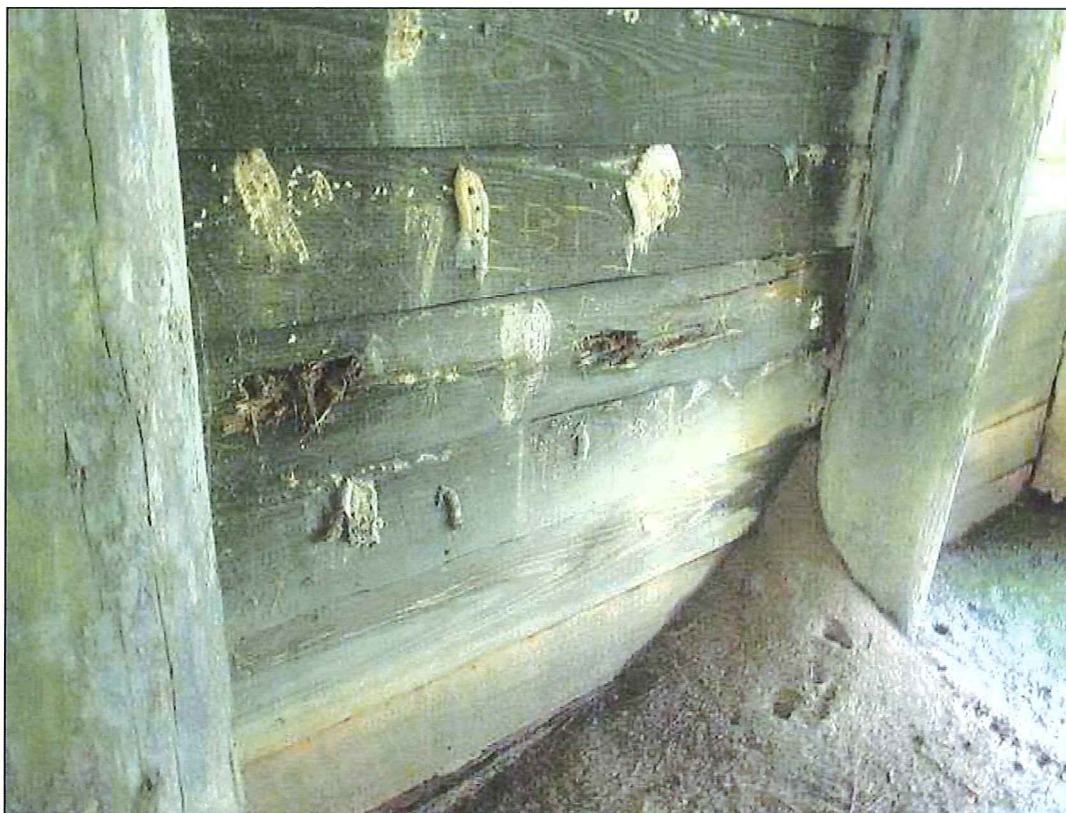
THERE ARE DECAYED WINGWALL BOARDS AT NORTHEAST CORNER



THERE ARE DECAYED EXTERIOR BULKHEAD BOARDS AT NORTHEAST CORNER



THE NORTHEAST CORNER EXTERIOR BULKHEAD HAS DECAYED BOARDS AT TOP PORTION



THE END BENT 2 BULKHEAD IS DECAYED WITH FILL LEAKAGE BETWEEN PILES 2 AND 3 PM ISSUED



PILE 4 AT END BENT 2 IS ENCASED, TEMPORARY REPAIR



BENT 1 SPAN 2 TIMBER CROSSBRACING IS DECAYED AT PILES 3 AND 4



END BENT 2 PILE 2 HAS A 1/4" WIDE X UP TO 1" DEEP VERTICAL CRACK



THERE IS A HAIRLINE TRANSVERSE CRACK WITH EFFLORESCENCE IN SPAN 2 , SLAB 2 UNDERSIDE



PILE 2 AT BENT 1, NORTH FACE HAS A 1/4" WIDE X FULL HEIGHT X UP TO 2 1/2" DEEP VERTICAL CRACK



PILES 2 AND 5 AT END BENT 1 ARE ENCASED, TEMPORARY REPAIRS



THERE IS DRIFT 6" DIAMETER X 10' LONG LOG UPSTREAM NORTH AT SPAN 1



PILE 3 AT END BENT 1 NORTH FACE IS SURFACE DECAYED 2' HIGH X 6" WIDE X 1" DEEP



PILE 5 AT BENT 1, NORTHWEST FACE HAS A 1/8" WIDE X 3' HIGH X 1" DEEP VERTICAL CRACK



SOUTHEAST CORNER EXTERIOR BULKHEAD BOARD IS DECAYED AT END PORTION



THERE ARE DECAYED WINGWALL BOARDS WITH FILL EXPOSED AT SOUTHEAST CORNER

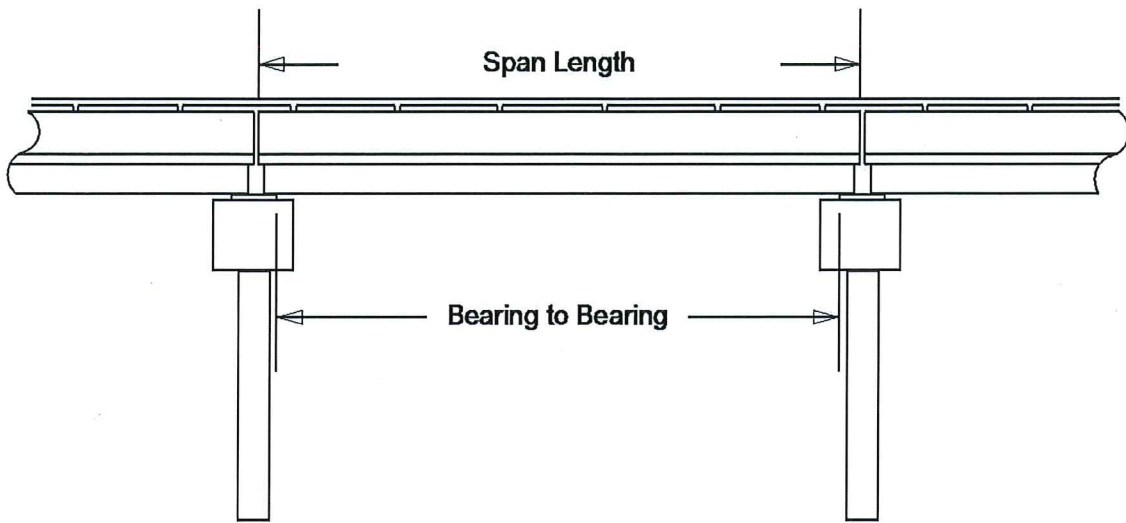


NORTHWEST CORNER EXTERIOR BULKHEAD CLEAT IS DECAYED AT TOP PORTION

Structure Data Worksheet

Spans

County: ROBESON Structure No: 770413 Date: 08/19/2014 Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	14.167 FT.	13.167 FT.	NBIS 25.333 FT.
2	14.167 FT.	13.167 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770413 County: ROBESON Date: 08/19/2014 By: RDH

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

Distance from Highwater Mark to top of rail: 3.7 Location of Highwater Mark: TOP OF CAP

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3	TOP OF BULKHEAD			
1	3.7	Top of Cap			
1.5	10.7	GROUND AT CAP	1.5	11.6	GROUND AT CAP
11.9	11.7	WSWE (SOUTH)			
13.9	12.3	BENT 1	13.9	12.2	BENT 1
16.9	11.7	WSWE			
26.6	11		26.6	10.8	GROUND AT CAP
26.6	11.5	GROUND AT CAP			
26.7	3.7	Top of Cap			
28	3	TOP OF BULKHEAD			

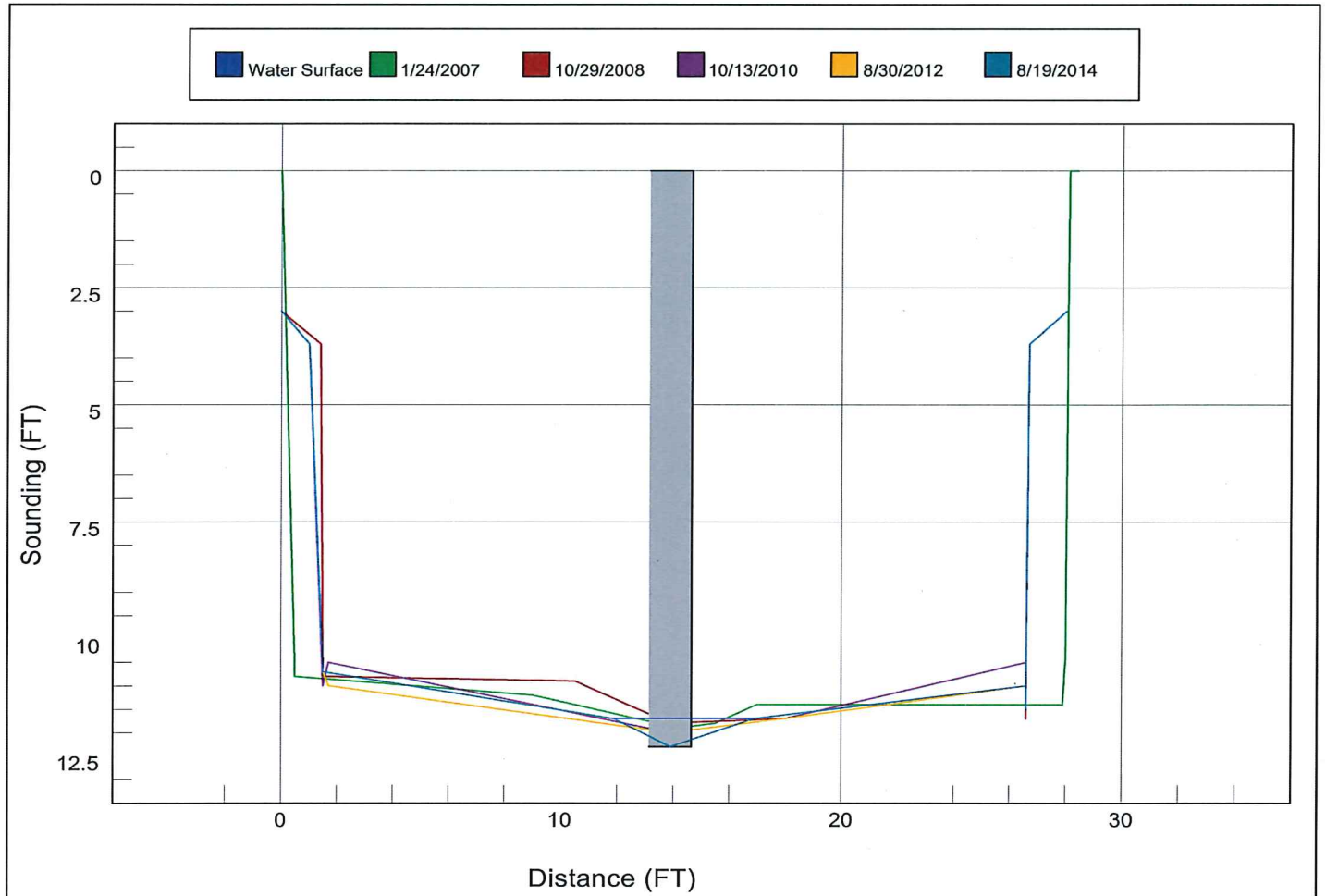
Bridge: 770413

County ROBESON

Date: 08/19/2014

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RLK 10/13/10

MEASUREMENTS VERIFIED BY RLK 8/30/12

MEASUREMENTS VERIFIED BY RLK 8/19/14

Title

APPROACH ROADWAY

Description

LOOKING EAST

Bridge No: 770413

Drawn By: RLB

Date: 01/24/2007

File Name: S0274002461

Bridge Inspection Field Sketch											
Cap Information			Material Precast Concrete								
Length 26 ft.	Width 1.5 ft.	Height 0.667 ft.	Left Overhang 2 ft.	Right Overhang 2 ft.	Left Beam to End of Cap.		Right Beam to End of Cap.				
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	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No	
2	Timber	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No	
3	Timber	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No	
4	Timber	5.5 ft.	1.0 ft.			Vertical	Yes	No	No	No	
5	Timber		1.0 ft.			Vertical	Yes	No	No	No	
INTERIOR BENT AND END BENTS 1 & 2					CROSSBRACING AT BENT 1						
Bent/Abutment #: 1			Similar Bents: BOTH END BENTS								
Title						Description					
SUBSTRUCTURE						SIMILAR END AND INTERIOR BENTS					
Bridge No: 770413			Drawn By: RLK			Date: 8/19/2014		File Name: S0274002462			

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.583ft	Between Rails	25ft
Clear Roadway	24.167ft	Wearing Surface	0.209ft
Median Width		Median Height	
Curb Height		Left	0.75ft
Sidewalk Width		Right	0.75ft
Clear Roadway (Rail to Median)		Left	
Guardrail Width		Right	
Top of Rail to Deck/Wearing Surface		Left	0.917ft
Bridge Rail		Right	0.917ft
		Left	2.667ft
		Right	2.667ft
		Left	Type 32
		Right	Type 32

NOTE: PRECAST CONCRETE SLABS

Measurements for Span #	1	SPAN 2 SIMILAR	
Deck Thickness		Left Overhang	
Top of Rail to Bottom of Beam	3.563	Right Overhang	

Number of Slabs	Slab Width	Slab Height	Comments
2	2.792ft	0.667ft	EXTERIOR SLAB SECTIONS
4	5.0 FT.	.667 FT.	INTERIOR SLAB SECTIONS

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

Bridge No: 770413

Drawn By: RLK

Date: 8/19/2014

File Name: S0274002463



LOOKING EAST (WATSON MILL ROAD)



UPSTREAM NORTH



DOWNSTREAM SOUTH



LOOKING EAST, OFF BRIDGE



LOOKING WEST, OFF BRIDGE



LOOKING WEST



SOUTH PROFILE



NORTH PROFILE



BENT 1



NORTH END OF BENT 1



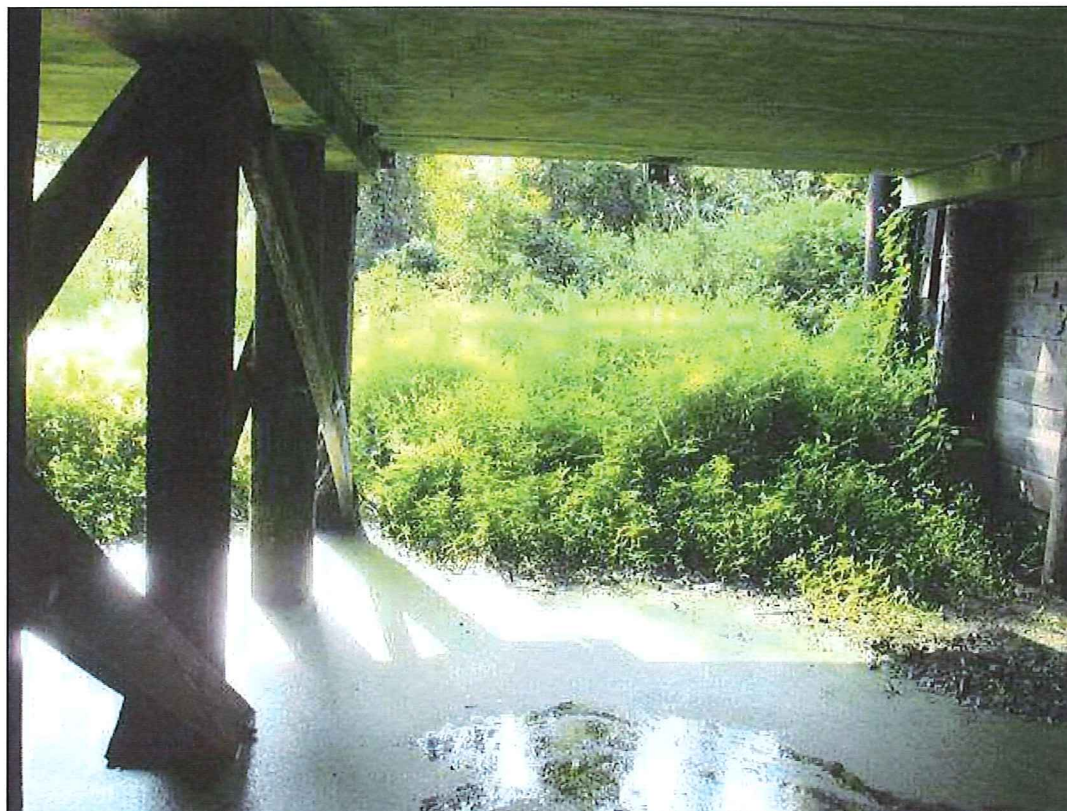
SPAN 1 UNDERSIDE, SPAN 2 IS SIMILAR



END BENT 1



END BENT 2



DOWNSTREAM SOUTH, THRU SPAN 1



UPSTREAM NORTH, THRU SPAN 1