



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS
CHANGE IN AWS
PRIORITY MAINTENANCE

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY ROWAN BRIDGE NUMBER 790353 INSPECTION CYCLE 0 YRS
ROUTE SR1349 ACROSS CREEK M.P. 0

LOCATION 0.3 MI. S. JCT. SR1308

SUPERSTRUCTURE PRECAST PRESTRESSED CONCRETE CHANNELS

SUBSTRUCTURE END BENTS:PPC CAP ON TIMBER PILES,PILES CONCRETE ENCASED

SPANS 1@26'2

LONGITUDE 80° 33' 36.71"

LATITUDE 35° 30' 18.93"

INSPECTION DATE 06/13/2014

PRESENT CONDITION FAIR

PRESENT POSTING Not Posted

PROPOSED POSTING

OTHER SIGNS PRESENT (4) DELINEATORS



SOUTH APPROACH LOOKING NORTH

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>Yes</u>

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
<u>No</u>	WEIGHT LIMIT	<u></u>
<u>No</u>	DELINEATORS	<u></u>
<u>No</u>	NARROW BRIDGE	<u></u>
<u>No</u>	ONE LANE BRIDGE	<u></u>
<u>No</u>	LOW CLEARANCE	<u></u>

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

BRIDGE: **790353**County **Rowan**DATE: **6/30/2014**

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
S I & A ITEM 64 OPERATING RATING		
S I & A ITEM 66 - INVENTORY RATING	HS <i>0/0</i>	BY: <i>6/30/14</i>
	HS <i>0/0</i>	BY:

COMMENTS

Pile 2 @ Abut. 1 & Pile 4 @ Abut. 2 have been supplemented.

Temporary Repair

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

Run Date: 07/01/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	790353		SUFFICIENCY RATING =		34.86	
(8) STRUCTURE NUMBER(FEDERAL)		000000001590353		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013490					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION		CODE	
(3) COUNTY CODE 159	(4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - CREEK				(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED SR1349				(26) FUNCTIONAL CLASS -	Local	09	
(9) LOCATION 0.3 MI. S. JCT. SR1308				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT 35° 30' 18.93"	(17)LONG 80° 33' 36.71"			(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	
STRUCTURE TYPE AND MATERIAL				(31) MAINTAIN -	State Highway Agency	01	
(43) STRUCTURE TYPE MAIN: Prestressed Concrete				(22) OWNER -	State Highway Agency	01	
TYPE - Channel Beam	CODE	522		(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
(44) STRUCTURE TYPE APPR :				CONDITION		CODE	
TYPE -	CODE	000		(58) DECK		7	
(45) NUMBER OF SPANS IN MAIN UNIT		1		(59) SUPERSTRUCTURE		7	
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE		4	
(107)DECK STRUCTURE TYPE - 1	CODE			(61) CHANNEL & CHANNEL PROTECTION		6	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS		N	
(A) TYPE OF WEARING SURFACE -	CODE			LOAD RATING AND POSTING		CODE	
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD	H 10	1	
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD -	Load Factor	1	
				(64) OPERATING RATING -	HS-1	1	
(27) YEAR BUILT		1967		(65) INVENTORY RATING METHOD -	Load Factor	1	
(106)YEAR RECONSTRUCTED				(66) INVENTORY RATING -	HS-1	1	
(42) TYPE OF SERVICE : ON - Highway				(70) BRIDGE POSTING -	No Posting Required	5	
UNDER - Waterway	CODE	15		(41) STRUCTURE OPEN, POSTED ,OR CLOSED		D	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		DESCRIPTION -	Open Temporary Shoring		
(29) AVERAGE DAILY TRAFFIC		220		APPRAISAL		CODE	
(30) YEAR OF ADT 1981	(109) TRUCK ADT PCT	6%		(67) STRUCTURAL EVALUATION		3	
(19) BYPASS OR DETOUR LENGTH		2 MI		(68) DECK GEOMETRY		5	
GEOMETRIC DATA				(69) UNDERCLEARANCES,VERTI & HORIZ		N	
(48) LENGTH OF MAXIMUM SPAN		24 FT		(71) WATERWAY ADEQUACY		7	
(49) STRUCTURE LENGTH		26 FT		(72) APPROACH ROADWAY ALIGNMENT		8	
(50)CURB OR SIDEWALK: LEFT .4165 FT RIGHT .4165 FT				(36) TRAFFIC SAFETY FEATURES		0000	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT		(113)SCOUR CRITICAL BRIDGES		U	
(52) DECK WIDTH OUT TO OUT		25.417 FT		PROPOSED IMPROVEMENTS			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		17 FT		(75) TYPE OF WORK -		CODE	
(33) BRIDGE MEDIAN - No Median	CODE	0		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW 0°	(35) STRUCTURE FLARED	0		(94) BRIDGE IMPROVEMENT COST			
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(95) ROADWAY IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 FT		(96) TOTAL PROJECT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(114)FUTURE ADT 440	(115) YEAR FUTURE ADT	2025	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		INSPECTIONS			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(90) INSPECTION DATE		06/13/2014	
NAVIGATION DATA				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE		
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		A) FRACTURE CRIT DETAIL -	NO	A)	
(111)PIER PROTECTION -	CODE			B) UNDERWATER INSP -	NO	B)	
(39) NAVIGATION VERTICAL CLEARANCE		0		C) OTHER SPECIAL INSP	NO	C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT			SCOUR			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 07/01/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROWAN	9	1	790353	26	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1349	CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.3 MI. S. JCT. SR1308		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	220 1981	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1967	BMU	6.6320169		H 10

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		9 FT		1		FT

SUPERSTRUCTURE :	PRECAST PRESTRESSED CONCRETE CHANNELS
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SUBSTRUCTURE :	END BENTS:PPC CAP ON TIMBER PILES, PILES CONCRETE ENCASED
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SPANS :	1@26'2"
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BEAMS OR GIRDERS :	10 SECTIONS OF PRECAST PRESTRESSED CONCRETE CHANNELS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
PPC.CH, 4" AWS		25.417 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	24.833 FT	LT .4165 FT RT .4165 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		DATE
HS-1	HS-1	Chan Patt B	SV	TTST	

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection - Contract

BRIDGE NO. 790353

COUNTY ROWAN

ROUTE SR1349

OVER CREEK

STRUCTURE TYPE PRECAST PRESTRESSED CONCRETE CHANNELS

ROUTE ORIENTATION S - N

SPANS 1@26'2

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			G	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	F	
					b. ALIGNMENT	G	
					c. SCOUR	G	
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.	F	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	1	G	50. APPROACH ROADWAY CONDITION			F
	b. TIMBER			51. APPROACH SLABS			
	c. STEEL PLANK			52. PAINT SYSTEM			CODE
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE			54. RESPONSE TO LIVE LOAD			G
	b. TIMBER			55. ESTIMATED REMAINING LIFE			12
	c. ALUMINUM						
	d. STEEL		G				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G				
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED			NO
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER			61. PROMPT-ACTION NOTICE ISSUED			YES
	b. MISC PREFAB			62. PRESENTLY POSTED			NO
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			9
	d. STANDARD JOINTS			64. TOTAL SNOOPER INSP. TIME (HRS)			0
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0
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	7	
10. LONGITUDINAL BEAMS OR GIRDERS			F	b. SUPERSTRUCTURE	ITEM 59	7	
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	4	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	6	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			G				
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS			
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			G	a. WATERWAY ADAQUACY		7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT		8	
17. MOVABLE SPAN MACHINERY							
				72. FIELD SCOUR EVALUATION			O
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	NO
	c. BULKHEADS, WING'S, & TIE BACKS		P	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			NO
	d. BACKWALLS, WING'S, RETAIN. WALLS						
	e. ABUT. & BENT FOOTINGS & SILLS		G				
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 I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader Ray Fredette			
Assisted By GLT			
Item No.	Grade		
1	G	WEARING SURFACE	
		THERE IS CRACKING ALONG BOTH JOINTS UP TO 1/4" WIDE	
2a	G	SEE NOTES ON BEAMS	
4	G	CURBS	
		RIGHT SIDE CURB: TRANSVERSE CRACKING UP TO 1/64" WIDE (SIMILAR SEVERAL LOCATIONS THROUGHOUT)	
7	F	DECK DEBRIS	
		THERE IS AN ACCUMULATION OF DIRT AND VEGETATION ALONG BOTH GUTTER LINES	
10	F	CHANNEL BEAMS	
		BEAM 2 LEFT LEG MID SPAN: POP OUT SPALL ON BOTTOM SURFACE (SIMILAR SEVERAL LOCATIONS)	
		BEAM 1 RIGHT LEG 7 FEET FROM ABUTMENT 1: SPALL WITH EXPOSED REBAR ON EAST FACE 3 " X 2 " X 1/2"	
		BEAM 1 RIGHT LEG 6 FEET FROM ABUTMENT 1: SPALL WITH EXPOSED REBAR ON EAST FACE 3 " X 3 " X 1/2"	
		BEAM 1 RIGHT LEG 5 FEET FROM ABUTMENT 1: SPALL WITH EXPOSED REBAR 2 " X 2 " X 1/2"	
10A	NO	NO CURVED GIRDERS	
35b	F	TIMBER PILES	
		PRIORITY MAINTENANCE WAS ISSUED FOR THE FOLLOWING LOCATION	
		WINGWALL PILE AT SOUTHWEST CORNER: AREA OF DECAY AT BOTTOM OF PILE 6 " X 6 " X 6" (MIDDLE CORE OF PILE GONE)	
		PILE 2 AT ABUTMENT 1: NEW PILE ADJACENT PILE 1	
		PILE 4 AT ABUTMENT 2: NEW PILE ADJACENT TO PILE 5	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader Ray Fredette			
Assisted By GLT			
Item No.	Grade		
35c	P	TIMBER BULKHEADS ***PRIORITY MAINTENANCE WAS ISSUED FOR THE FOLLOWING LOCATION*** WINGWALL AT NORTHEAST CORNER: AREA OF HEAVY DECAY 60 " X 8 " X 6" THE FOLLOWING DEFICIENCIES WERE ALSO FOUND ON THE BULKHEADS AND WINGWALLS: BULKHEAD EXTENSION AT WEST END OF ABUTMENT 1: SEVERAL AREAS OF DECAY UP TO 8 " X 4 " X 3" BULKHEAD AT ABUTMENT 1 BAY 1: SEVERAL AREAS OF DECAY UP TO 12 " X 4 " X 3" BULKHEAD AT ABUTMENT 1 BAY 3: AREA OF DECAY 18 " X 3 " X 3" BULKHEAD AT ABUTMENT 1 BAY 4: SEVERAL AREAS OF DECAY UP TO 36 " X 2 " X 3" BULKHEAD EXTENSION AT EAST END OF ABUTMENT 1: SEVERAL AREAS OF DECAY UP TO 36 " X 8 " X 3" BULKHEAD BOARDS WEST END OF ABUTMENT 1: DECAY ON END OF SEVERAL BOARDS WITH PENETRATION UP TO 16" WINGWALL AT SOUTHWEST CORNER: AREA OF DECAY 36 " X 4 " X 4" BULKHEAD BOARDS AT EAST END OF ABUTMENT 1: DECAY ON END OF SEVERAL BOARDS WITH PENETRATION UP TO 24" BULKHEAD AT ABUTMENT 2 BAY 2: AREA OF DECAY 12 " X 8 " X 4" ADJACENT TO PILE 2 BULKHEAD AT ABUTMENT 2 BAY 2: AREA OF DECAY 14 " X 8 " X 4" BULKHEAD AT ABUTMENT 2 BAY 3: AREA OF DECAY 4 " X 2 " X 3" ADJACENT TO PILE 4 BULKHEAD AT ABUTMENT 2 BAY 4: SEVERAL AREAS OF DECAY UP TO 3 " X 2 " X 2" BULKHEAD EXTENSION AT EAST END OF ABUTMENT 2: SEVERAL AREAS OF DECAY UP TO 36 " X 2 " X 2" BULKHEAD EXTENSION EAST END OF THE ABUTMENT 2: DECAY ON END OF BOARDS WITH PENETRATION UP TO 12" BULKHEAD EXTENSION WEST END OF ABUTMENT 2: DECAY ON END OF BOARDS WITH PENETRATION UP TO 18" WINGWALL NORTHWEST CORNER: AREA OF DECAY UP TO 24 " X 2 " X 2" -	
36a	G	ABUTMENT CAPS ABUTMENT 2 UNDER BEAM 8: VERTICAL CRACKING UP TO 1/64" WIDE (SIMILAR SEVERAL LOCATIONS) -	
45a	F	WATERWAY THERE IS AN AREA OF BANK EROSION AT EAST END OF ABUTMENT 1 FOOTING IS NOT EXPOSED. -	

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 Ray Fredette			
Assisted By GLT			
Item No.	Grade		
45d	F	CHANNEL SLOPE PROTECTION THERE IS AN AREA OF BANK EROSION ON THE SOUTH SIDE OF THE EAST CHANNEL THE UPPER PORTIONS OF THE BANKS BOTH UPSTREAM AND DOWNSTREAM HAVE GOOD VEGETATION. --	
50	F	APPROACH ROADWAY ASPHALT AT NORTH APPROACH: TRANSVERSE CRACKING UP TO 1/8" WIDE ASPHALT AT NORTH APPROACH: TRANSVERSE CRACKING UP TO 1/8" WIDE ALONG JOINT AT ABUTMENT 2 ASPHALT AT SOUTH APPROACH: TRANSVERSE CRACKING UP TO 1/4" WIDE ASPHALT AT SOUTH APPROACH: TRANSVERSE CRACKING UP TO 1/4" WIDE ALONG JOINT AT ABUTMENT 1 -	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 790353

County ROWAN

Date: 06/13/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	1	THE WINGWALL PILE AT SOUTHWEST CORNER HAS AN AREA OF DECAY AT BOTTOM OF PILE 6 " X 6 " X 6" THE MIDDLE CORE OF PILE GONE.	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	5	THE MIDDLE BOARD AT THE NORTHEAST WINGWALL HAS AN AREA OF HEAVY DECAY UP TO 60 " X 8 " X 6". A LARGE SECTION OF BOARD IS COMPLETELY MISSING AND DIRT IS SEEPING IN AT THIS LOCATION. THE END SECTION OF BOARD HAS INTERNAL DECAY THROUGHOUT.	
3306	Maintain Concrete Superstructure Components	SF	2	SPALLS WITH EXPOSED REBAR ON BEAM 1	
3346	Repair / Maintain Timber Wings & Blkhds	SF	60	NUMEROUS AREAS OF DECAY ON BULKHEADS AT BOTH ABUTMENTS AND ALL 4 WINGWALLS	
3352	Maint Slope Protection	SF	150	AREA OF EROSION AT EAST END OF ABUTMENT 1 AND SOUTH BANK OF EAST CHANNEL	
3376	Clean/Wash Bridge Decks	SF	50	DEBRIS AND VEGETATION ALONG BOTH GUTTER LINES	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 790353

County ROWAN

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	1 LF
Location:		
Abutment Substructure	Bent/Span No. 2	WINGWALL PILE AT SOUTH WEST CORNER
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/16/2014	Ray Fredette	George Teague
Details		
THE WINGWALL PILE AT SOUTHWEST CORNER HAS AN AREA OF DECAY AT BOTTOM OF PILE 6 " X 6 " X 6" THE MIDDLE CORE OF PILE GONE.		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	5 SF
Location:		
Abutment Substructure	Bent/Span No. 2	WINGWALL AT NORTHEAST CORNER
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/16/2014	Ray Fredette	George Teague
Details		
THE MIDDLE BOARD AT THE NORTHEAST WINGWALL HAS AN AREA OF HEAVY DECAY UP TO 60 " X 8 " X 6". A LARGE SECTION OF BOARD IS COMPLETELY MISSING AND DIRT IS SEEPING IN AT THIS LOCATION. THE END SECTION OF BOARD HAS INTERNAL DECAY THROUGHOUT.		



ASPHALT AT NORTH APPROACH: TRANSVERSE CRACKING UP TO 1/8" WIDE



ASPHALT AT NORTH APPROACH: TRANSVERSE CRACKING UP TO 1/8" WIDE ALONG JOINT AT ABUTMENT 2



ASPHALT AT SOUTH APPROACH: TRANSVERSE CRACKING UP TO 1/4" WIDE



ASPHALT AT SOUTH APPROACH: TRANSVERSE CRACKING UP TO 1/4" WIDE ALONG JOINT AT ABUTMENT 1



DEBRIS ALONG LEFT SIDE GUTTER LINE



DEBRIS ALONG RIGHT SIDE GUTTER LINE



RIGHT SIDE CURB: TRANSVERSE CRACKING UP TO 1/64" WIDE (SIMILAR SEVERAL LOCATIONS THROUGHOUT)



BULKHEAD EXTENSION AT WEST END OF ABUTMENT 1: SEVERAL AREAS OF DECAY UP TO 8 " X 4 " X 3"



BULKHEAD AT ABUTMENT 1 BAY 1: SEVERAL AREAS OF DECAY UP TO 12 " X 4 " X 3"



BULKHEAD AT ABUTMENT 1 BAY 3: AREA OF DECAY 18 " X 3 " X 3"



BULKHEAD AT ABUTMENT 1 BAY 4: SEVERAL AREAS OF DECAY UP TO 36 " X 2 " X 3"



BULKHEAD EXTENSION AT EAST END OF ABUTMENT 1: SEVERAL AREAS OF DECAY UP TO 36 " X 8 " X 3"



PILE 2 AT ABUTMENT 1: NEW PILE



BULKHEAD BOARDS WEST END OF ABUTMENT 1: DECAY ON END OF SEVERAL BOARDS WITH PENETRATION UP TO 16"



WINGWALL AT SOUTHWEST CORNER: AREA OF DECAY 36 " X 4 " X 4 "



WINGWALL PILE AT SOUTHWEST CORNER: AREA OF DECAY AT BOTTOM OF PILE 6 " X 6 " X 6 " (MIDDLE CORE OF PILE GONE)



BULKHEAD BOARDS AT EAST END OF ABUTMENT 1: DECAY ON END OF SEVERAL BOARDS WITH PENETRATION UP TO 24"



BANK EROSION AT EAST END OF ABUTMENT 1



BANK EROSION ON THE SOUTH SIDE THE EAST CHANNEL



BULKHEAD AT ABUTMENT 2 BAY 2: AREA OF DECAY 12 " X 8 " X 4" ADJACENT TO PILE 2



BULKHEAD AT ABUTMENT 2 BAY 2: AREA OF DECAY 14 " X 8 " X 4"



BULKHEAD AT ABUTMENT 2 BAY 3: AREA OF DECAY 4 " X 2 " X 3" ADJACENT TO PILE 4



BULKHEAD AT ABUTMENT 2 BAY 4: SEVERAL AREAS OF DECAY UP TO 3 " X 2 " X 2"



BULKHEAD EXTENSION AT EAST END OF ABUTMENT 2: SEVERAL AREAS OF DECAY UP TO 36 " X 2 " X 2"



PILE 4 AT ABUTMENT 2: NEW PILE



ABUTMENT 2 UNDER BEAM 8: VERTICAL CRACKING UP TO 1/64" WIDE (SIMILAR SEVERAL LOCATIONS)



WINGWALL AT NORTHEAST CORNER: AREA OF HEAVY DECAY 60 " X 8 " X 6"



BULKHEAD EXTENSION EAST END OF THE ABUTMENT 2: DECAY ON END OF BOARDS WITH PENETRATION UP TO 12"



BULKHEAD EXTENSION WEST END OF ABUTMENT 2: DECAY ON END OF BOARDS WITH PENETRATION UP TO 18"



WINGWALL NORTHWEST CORNER: AREA OF DECAY UP TO 24 " X 2 " X 2"



BEAM 2 LEFT LEG MID SPAN: POP OUT SPALL ON BOTTOM SURFACE (SIMILAR SEVERAL LOCATIONS)



BEAM 1 RIGHT LEG 7 FEET FROM ABUTMENT 1: SPALL WITH EXPOSED REBAR ON EAST FACE 3" X 2" X 1/2"



BEAM 1 RIGHT LEG 6 FEET FROM ABUTMENT 1: SPALL WITH EXPOSED REBAR ON EAST FACE 3 " X 3 " X 1/2"

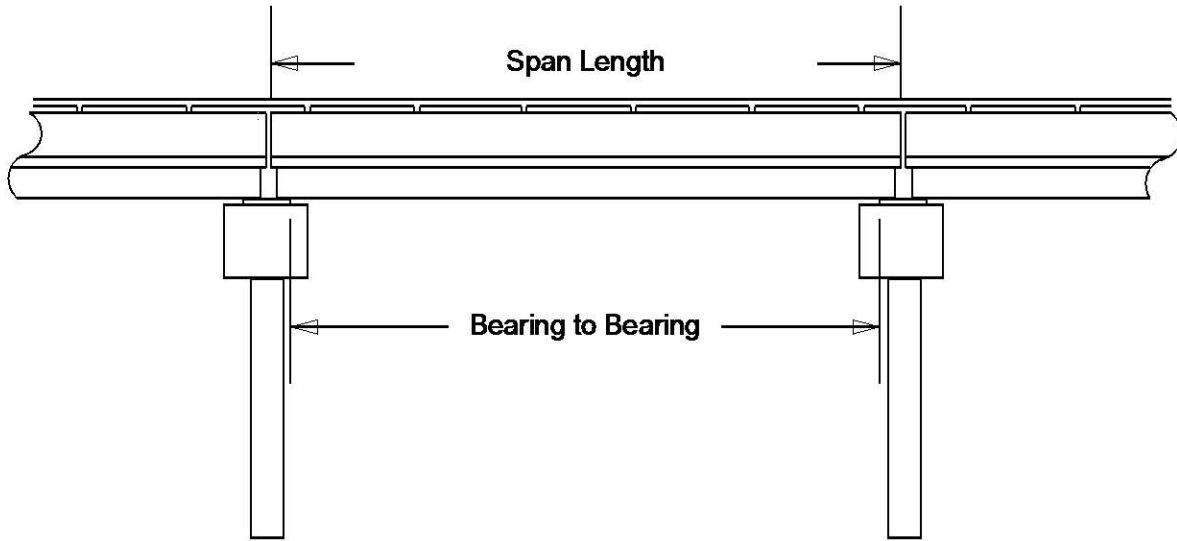


BEAM 1 RIGHT LEG 5 FEET FROM ABUTMENT 1: SPALL WITH EXPOSED REBAR 2 " X 2 " X 1/2"

Structure Data Worksheet

Spans

County: ROWAN Structure No: 790353 Date: 06/13/2014 Inspected By: RJF



Span No	Span Length	Bearing to Bearing	Comments
1	26.167	24.25	NBIS BRIDGE LENGTH 23.13'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 790353 County: ROWAN Date: 06/13/2014 By: RJF

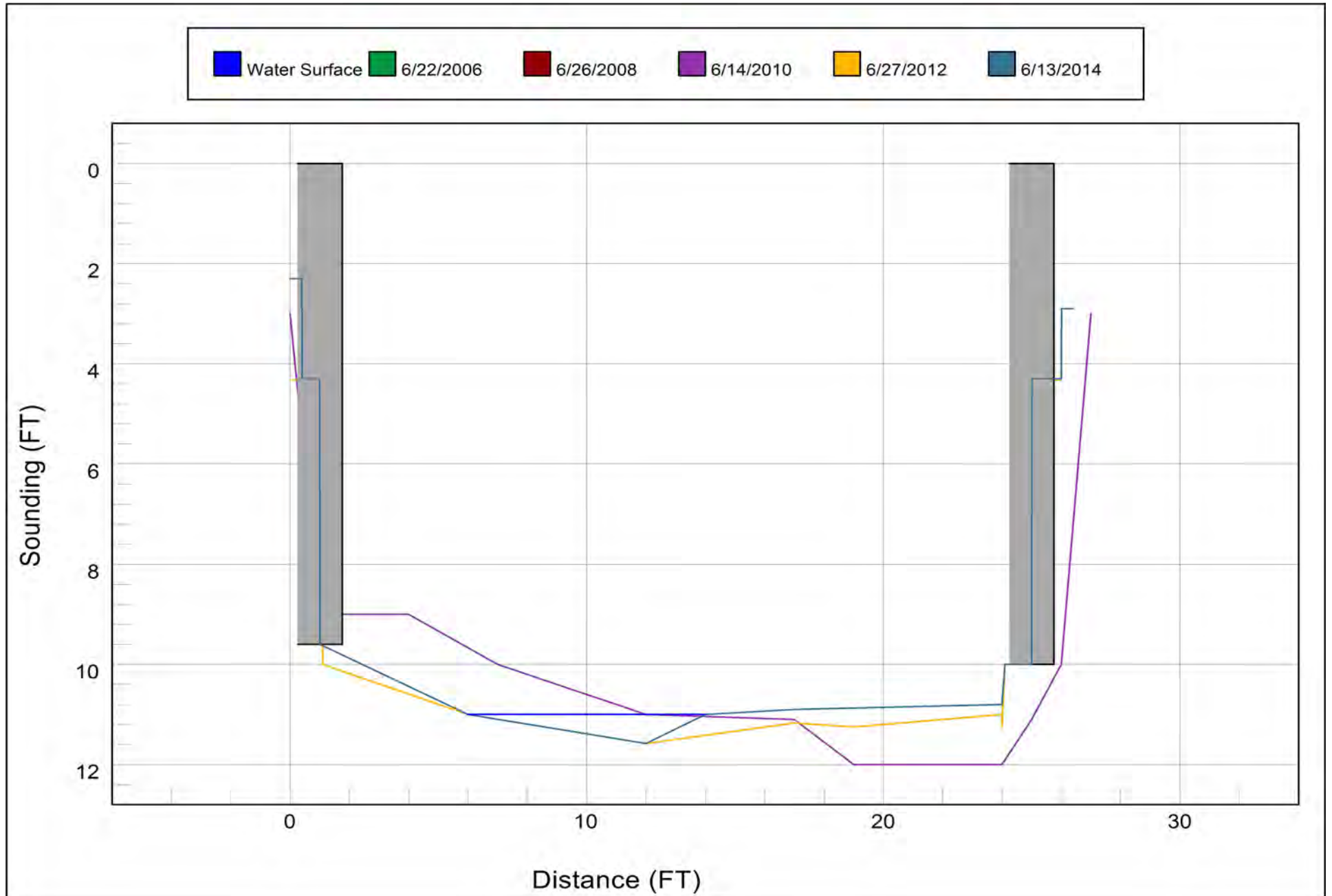
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 7 Location of Highwater Mark: TOP OF BANK

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.3	TOP BACKWALL			
0.4	2.3	TOP BACKWALL			
0.41	4.3	Top of Cap			
1	4.3	Top of Cap			
1.01	9.6	ABUTMENT 1	1.01	10.9	
6	11	Water Surface/Water Edge (WSWE)			
12	11.58				
14	11	Water Surface/Water Edge (WSWE)			
17	10.9				
24	10.8				
24.1	10				
25	10	ABUTMENT 2	25	9.4	
25.01	4.3	Top of Cap			
26	4.3	Top of Cap			
26.01	2.9	TOP BACKWALL			
26.4	2.9	TOP BACKWALL			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	17ft Wide	2 Paved Lanes	Looking North
Left Shoulder	7ft Wide		7ft Unpaved
Right Shoulder	8ft Wide		8ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS TAKEN 25 FEET SOUTH OF BRIDGE LOOKING NORTH

MEASUREMENTS VERIFIED BY DH 6/27/2012

SKETCH UPDATED 6/13/14 RJF

Title

APPROACH ROADWAY SKETCH

Description

APPROACH ROADWAY SKETCH

Bridge No: 790353

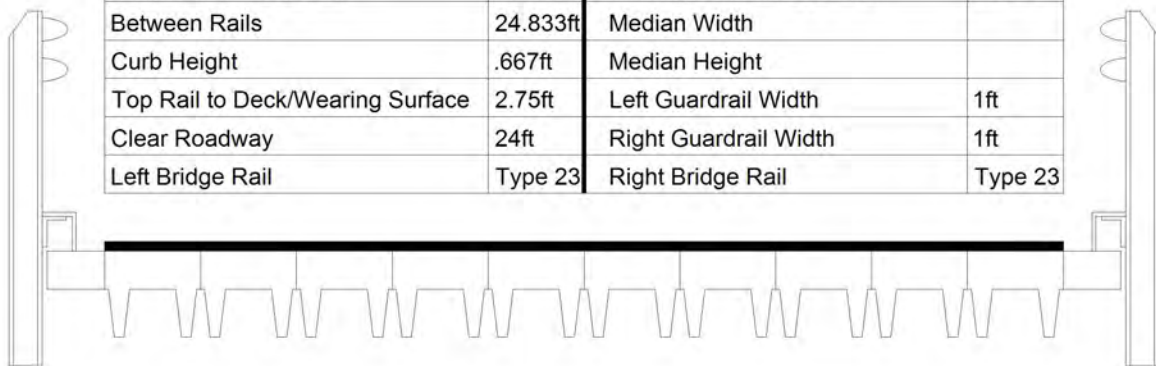
Drawn By: GDP

Date: 06/26/08

File Name: S0066001418

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.417ft	Wearing Surface Variable	2" to 6"
Between Rails	24.833ft	Median Width	
Curb Height	.667ft	Median Height	
Top Rail to Deck/Wearing Surface	2.75ft	Left Guardrail Width	1ft
Clear Roadway	24ft	Right Guardrail Width	1ft
Left Bridge Rail	Type 23	Right Bridge Rail	Type 23



Measurements for Span #	1		
Deck Thickness	.5	Left Overhang	.000000
Top of Rail to Bottom of Beam	4.29	Right Overhang	.000000

NOTE: WEARING SURFACE THICKNESS MEASURED 6" AT CENTERLINE AND 2" AT GUTTER LINE

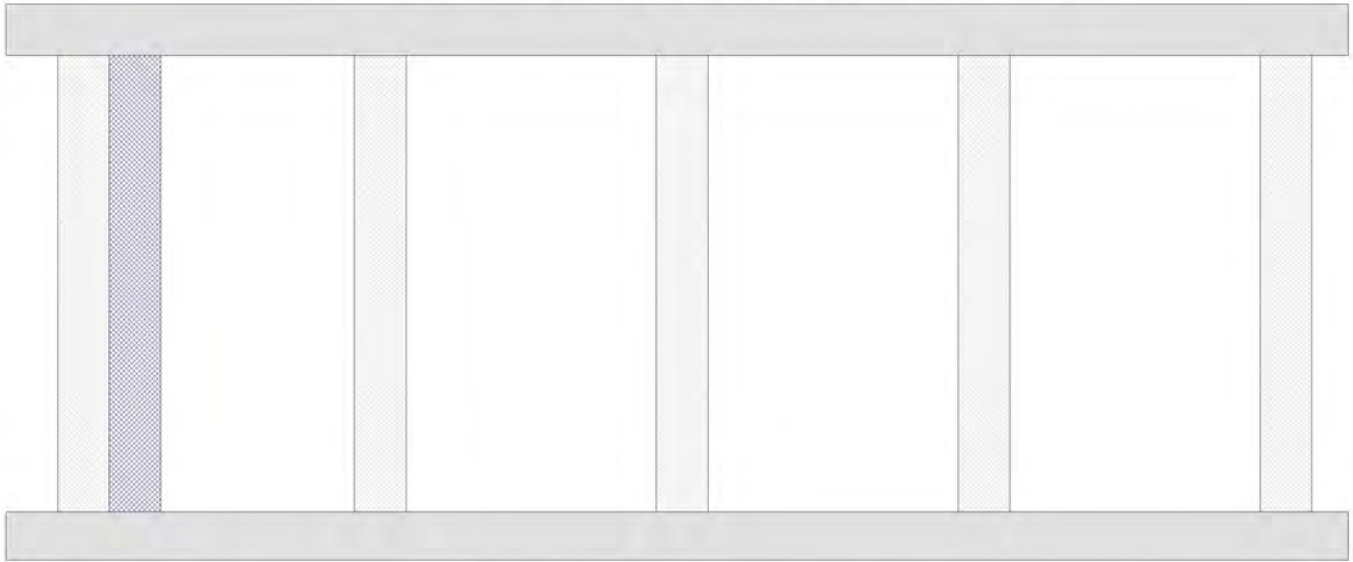
No. of Channels	10
Leg Width	.208ft
Leg Height	1ft
Leg to Leg (Centers)	2ft
Channel Width	2.542ft
Channel Height	1.417ft
Comments	

verified by wc 6-14-10

SKETCH UPDATED 6/13/14 RJF

Title STRUCTURE DATA SKETCH		Description STRUCTURE DATA SKETCH	
Bridge No: 790353	Drawn By: GDP	Date: 06/26/08	File Name: S0066001419

Bridge Inspection Field Sketch



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.
26.000 ft.	1.333 ft.	1 ft.	1.500 ft.	1.500 ft.	.29 ft.	.29 ft.

Subcap Information

Material

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

Sill Information

Material

Length	Width	Height
28.000 ft.	1.500 ft.	1.500 ft.

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	4.6 ft.	1 ft.	0.83 ft.		Vertical	No	Yes	No	No
3	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
5	Timber	5.8 ft.	1 ft.			Vertical	No	No	No	No
6	Timber		1 ft.			Vertical	No	No	No	No

ABUTMENT 1

SKETCH UPDATED 6/13/14 RJF

MEASUREMENTS VERIFIED BY DH 6/27/2012

Bent/Abutment #: 1

Similar Bents:

Title

PILE DIAGRAM END BENT # 1

Description

PILE DIAGRAM END BENT # 1

Bridge No: 790353

Drawn By: GDP

Date: 06/26/08

File Name: S0066001420

Bridge Inspection Field Sketch



Cap Information

Material Timber

Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26 ft.	1.333 ft.	1 ft.	1.5 ft.	1.5 ft.	.29 ft.	.29 ft.

Subcap Information

Material

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

Sill Information

Material

Length	Width	Height
28.000 ft.	1.500 ft.	1.500 ft.

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.7 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	5.7 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	4.9 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	1 ft.	1 ft.	1 ft.		Vertical	No	Yes	No	No
5	Timber	5.7 ft.	1 ft.			Vertical	No	No	No	No
6	Timber		1 ft.			Vertical	No	No	No	No

ABUTMENT 2

SKETCH UPDATED 6/13/14 RJF

MEASUREMENTS VERIFIED BY DH 6/27/2012

Bent/Abutment #: 2 Similar Bents:

Title

PILE DIAGRAM END BENT # 2

Description

PILE DIAGRAM END BENT # 2

Bridge No: 790353

Drawn By: GDP

Date: 06/26/08

File Name: S0066001421



SOUTH APPROACH LOOKING NORTH



SOUTHEAST TRANSITION



SOUTHWEST TRANSITION



LOOKING WEST DOWNSTREAM



LOOKING EAST UPSTREAM



NORTHEAST TRANSITION



NORTHWEST TRANSITION



NORTH APPROACH LOOKING SOUTH



WEST ELEVATION



EAST ELEVATION



NORTH APPROACH



SOUTH APPROACH



WEARING SURFACE ON DECK



DECK DRAIN RIGHT SIDE



RIGHT SIDE RAIL AND CURB



ABUTMENT 1



ABUTMENT 2



BEAM 3



LOOKING UPSTREAM



LOOKING DOWNSTREAM



CHANNEL ALONG ABUTMENT 1



CHANNEL ALONG ABUTMENT 2