



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY CUMBERLAND BRIDGE NUMBER 250042 INSPECTION CYCLE 2 YRS
ROUTE SR2030 ACROSS CREEK M.P. 0

LOCATION 0.3 MI.N.JCT.NC210

SUPERSTRUCTURE PRESTRESSED CONCRETE CHANNELS(STD BMD-13)

SUBSTRUCTURE EBTS&IBTS:PRESTR.CONC.CAPS/TIM.PILES

1@30.5',1@30.0',1@30.5'

SPANS 1@30'6,1@30',1@30'6

LONGITUDE 78° 38' 50.21"

LATITUDE 34° 57' 54.78"

INSPECTION DATE 02/18/2014

PRESENT CONDITION FAIR

PRESENT POSTING Y SV 25; TTST 28

PROPOSED POSTING

OTHER SIGNS PRESENT 2 DELINEATORS



LOOKING NORTH (HOLLOW BRIDGE ROAD)

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>Yes</u>	DELINEATORS	<u>2</u>
<u>No</u>	NARROW BRIDGE	
<u>No</u>	ONE LANE BRIDGE	
<u>No</u>	LOW CLEARANCE	

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

Run Date: 03/13/2014

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	250042		SUFFICIENCY RATING =		46.68	
(8) STRUCTURE NUMBER(FEDERAL)		00000000510042		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31020300					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2					
(3) COUNTY CODE	51	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - CREEK				(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED SR2030				(26) FUNCTIONAL CLASS -	Minor Collector	08	
(9) LOCATION 0.3 MI.N.JCT.NC210				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT 34° 57' 54.78"	(17)LONG	78° 38' 50.21"		(102)DIRECTION OF TRAFFIC -	2-way Traffic	2	
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -			
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network	0	
				(20) TOLL	On Free Road	3	
				(31) MAINTAIN -	State Highway Agency	01	
				(22) OWNER -	State Highway Agency	01	
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE MAIN: Prestressed Concrete							
TYPE - Channel Beam		CODE	522				
(44) STRUCTURE TYPE APPR :							
TYPE -		CODE	000				
(45) NUMBER OF SPANS IN MAIN UNIT			3	(58) DECK		5	
(46) NUMBER OF APPROACH SPANS				(59) SUPERSTRUCTURE		5	
(107)DECK STRUCTURE TYPE - 1		CODE		(60) SUBSTRUCTURE		5	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(61) CHANNEL & CHANNEL PROTECTION		6	
(A) TYPE OF WEARING SURFACE -		CODE		(62) CULVERTS		N	
(B) TYPE OF MEMBRANE -		CODE					
(C) TYPE OF DECK PROTECTION -		CODE		LOAD RATING AND POSTING			
				(31) DESIGN LOAD	H 10	1	
				(63) OPERATING RATING METHOD -	Allowable Stress	2	
				(64) OPERATING RATING -	HS-17	30	
				(65) INVENTORY RATING METHOD -	Allowable Stress	2	
				(66) INVENTORY RATING -	HS-6	10	
				(70) BRIDGE POSTING -	Posting Required	3	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1969	(67) STRUCTURAL EVALUATION		3	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		5	
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ		N	
UNDER - Waterway		CODE	15	(71) WATERWAY ADEQUACY		7	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE			0	(72) APPROACH ROADWAY ALIGNMENT		8	
(29) AVERAGE DAILY TRAFFIC			500	(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT 2012	(109) TRUCK ADT PCT		6%	(113)SCOUR CRITICAL BRIDGES		U	
(19) BYPASS OR DETOUR LENGTH			5 MI	PROPOSED IMPROVEMENTS			
GEOMETRIC DATA				(75) TYPE OF WORK -		CODE	
(48) LENGTH OF MAXIMUM SPAN			30 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH			91 FT	(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT .5 FT RIGHT .5 FT				(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			29.4167 FT	(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT			30.75 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			18 FT	(114)FUTURE ADT 1000	(115) YEAR FUTURE ADT	2025	
(33) BRIDGE MEDIAN - No Median		CODE	0	INSPECTIONS			
(34) SKEW 0°	(35) STRUCTURE FLARED		0	(90) INSPECTION DATE		02/18/2014	
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			29.4167 FT	A) FRACTURE CRIT DETAIL -	NO	A)	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	B) UNDERWATER INSP -	YES 48Mo	B)	03/19/2013
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad			0 FT	C) OTHER SPECIAL INSP	NO	C)	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad			000 FT	SCOUR			
(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				

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 03/13/2014

COUNTY : CUMBERLAND	DIVISION : 6	DISTRICT : 2	STRUCTURE NUMBER : 250042	LENGTH : 91	FEET
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ROUTE CARRIED : SR2030	FEATURE INTERSECTED : CREEK
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LOCATED : 0.3 MI.N.JCT.NC210	BRIDGE NAME :	CITY :
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FUNC. CLASS : 08	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 500 2012	RAIL TYPE : LT 233 RT 233
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BUILT : 1969	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : H 10
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REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 90	LANES : ON 2 UNDER 0
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NAVIGATION : VC 0 FT	HC 0 FT	HT. CRN. TO BED : 13 FT	WATER DEPTH : 7 FT
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SUPERSTRUCTURE : PRESTRESSED CONCRETE CHANNELS(STD BMD-13)

SUBSTRUCTURE : EBTS&IBTS:PRESTR.CONC.CAPS/TIM.PILES

SPANS : 1@30'6,1@30',1@30'6

BEAMS OR GIRDERS : 12 PRESTRESSED CONCRETE CHANNEL SECTIONS

FLOOR : PPCCH/2.5 AWS	ENCROACHMENT :	DECK (OUT TO OUT) : 30.75 FT
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CLEAR ROADWAY : 29.4167 FT	BETWEEN RAILS : 30.4167 FT	SIDEWALK OR CURB : LT .5 FT RT .5 FT
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VERT.CL.OVER :
999.9 FT

INV.RTG. : HS-6	OPE.RTG. : HS-17	CONTR.MEMBER : Pile	POSTED : SV 25	TTST 28	DATE 03/09/2012
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SYSTEM : Secondary S.R. Route	GREEN LINE ROUTE : N
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UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 250042 COUNTY CUMBERLAND ROUTE SR2030 OVER CREEK
 STRUCTURE TYPE PRESTRESSED CONCRETE CHANNELS(STD BMD-13)
 ROUTE ORIENTATION S - N SPANS 1@30'6,1@30',1@30'6

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	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	G	
					b. ALIGNMENT	G	
					c. SCOUR	G	
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	3	F	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			15
	c. ALUMINUM						
	d. STEEL		F				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G				
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED			YES
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER			61. PROMPT-ACTION NOTICE ISSUED			NO
	b. MISC PREFAB			62. PRESENTLY POSTED			YES
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			10
	d. STANDARD JOINTS	2	F	64. TOTAL SNOOPER INSP. TIME (HRS)			
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
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	5	
10. LONGITUDINAL BEAMS OR GIRDERS			F	b. SUPERSTRUCTURE	ITEM 59	5	
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	5	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	7	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			F				
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS			
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			F	a. WATERWAY ADAQUACY		7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			F	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		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:	R. J. Hood		
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 R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
1	F	(ASPHALT WEARING SURFACE) THE WEARING SURFACE EXHIBITS LONGITUDINAL AND TRANSVERSE CRACKING. (PHOTOS)	
2a	F	THERE ARE TRANSVERSE CRACKS UP TO 1/2" OVER ALL JOINTS. (PHOTOS) (CONC DECK) THERE IS A SURFACE SPALL 12" DIAMETER X 1/2" DEEP WITH 8" EXPOSED REBAR IN TOP OF CHANNEL 12 IN SPAN 3 AT END BENT 2 NEAR DRAIN. (PHOTO)	
3d	F	SEE ITEM 10. (STEEL RAILS) THE LEFT RAIL IS LOOSE AT POSTS 1 AND 2 AT THE SOUTHWEST CORNER OF SPAN 1. (PHOTO)	
4	G	THE LEFT AND RIGHT RAILS HAVE PAINT PEELING. (PHOTOS) (CONC CURBS) THE CONCRETE CURB HAS AREAS OF SCALING AND STAINING.	
6d	F	(STANDARD JOINTS) THE STANDARD JOINTS SHOWS EVIDENCE OF LEAKAGE ON THE INTERIOR BENT CAPS. (PHOTO)	
7	F	(DECK DEBRIS) THERE IS SCATTERED DEBRIS ALONG LEFT CURB. (PHOTO)	
10	F	(PPC CHANNELS) THERE ARE SOME AREAS OF CRACKING ON THE LEFT LEG OF BEAM 10 AND AT OTHER RANDOM LOCATIONS. (PHOTO) THERE ARE REPAIRS AT MID SPAN 1 CHANNELS 9 AND 10. (PHOTO)	
10A	NO	THERE IS A SURFACE SPALL IN CHANNEL 12, SPAN 3 AT END BENT 2 NEAR DRAIN HOLE. (PHOTO) (CURVED GIRDERS) NO CURVED GIRDERS.	
13	F	(END DIAPHRAGMS) THE END DIAPHRAGMS HAVE SPALLS AND EXPOSED REBAR AT SEVERAL LOCATIONS. (PHOTO)	
15	F	(BEARING ASSEMBLIES) THERE IS RUST WAS NOTED AT THE BEARING AREAS. THERE IS A RUSTY BEARING PLATE AT CHANNEL 9 IN SPAN 1 AT BENT 1. ALL BEARINGS ARE SIMILAR. (PHOTO)	
16	F	(DRAINAGE SYSTEMS) MOST OF THE DRAINS ARE BLOCKED WITH DEBRIS. (PHOTO)	

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 R.D. HEATH			
Assisted By R.L. KISNER			
Item No.	Grade		
35b	F	(TIMBER PILES, AND CROSSBRACING) THE PILES HAVE AREAS OF CHECKING ,AND FACIAL SOFTNESS AND DECAY. (PHOTO) THERE IS AN AREA OF DECAY ON THE CROSSBRACE AT PILE 2 BENT 2 ON THE SPAN 2 SIDE. (PHOTO) ALSO SEE DIVERS UNDERWATER REPORT DATED 3/19/2013.	
35c	F	(TIMBER BULKHEADS WINGWALLS) THE BULKHEADS AND WINGWALLS HAVE AREAS OF CHECKING AND SPLITTING.	
36a	G	(PPC CAPS) BENT 1 CAP, SPAN 1 FACE IS SPALLED 4" DIAMETER X 1" DEEP UNDER CHANNEL 10. (PHOTO) THERE ARE EXPOSED CABLE ENDS AT EAST END OF BENT 1 CAP. (PHOTO) ALL CAPS ARE SIMILAR.	
41	G	THE CONCRETE CAPS HAVE AREAS OF STAINING AT THE BEARING AREAS. (DRIFT) SEE DIVERS UNDERWATER REPORT DATED 3/19/2013.	
45a	G	(WATERWAY) THERE ARE CUT OFF PILES IN SPAN 2. (PHOTO) SEE DIVERS UNDERWATER REPORT DATED 3/19/2013.	
45c	G	(SCOUR) SEE SCOUR REPORT DATED 5/20/2010. ALSO SEE DIVERS UNDERWATER REPORT DATED 3/19/2013.	
50	F	(APPROACH ROADWAY) THERE IS A 1/4" TRANSVERSE CRACK IN SOUTH APPROACH ASPHALT WEARING SURFACE OVER END BENT 1. (PHOTO) THERE IS A 1/2" TRANSVERSE CRACK IN NORTH APPROACH ASPHALT WEARING SURFACE OVER END BENT 2. (PHOTO) THE NORTH APPROACH ASPHALT WEARING SURFACE IS ROUGH AND UNEVEN. (PHOTO)	
54	G	(RESPONSE TO LIVE LOAD) THERE IS VIBRATION AND NOISE UNDER NORMAL TRAFFIC LOAD.	
60	YES	(SIGN NOTICE ISSUED) FOR 2 DELINEATORS NOT IN PLACE.	
62	YES	(PRESENTLY POSTED) SV - 25 TONS, TTST - 28 TONS	

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		
73f	YES	(OTHER EQUIPMENT) BOOTS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 250042

County CUMBERLAND

Date: 02/18/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
2816	Asphalt Surface Repair or Replacement	SY	1	3/16" TO 1/2" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 2 JOINT	
2816	Asphalt Surface Repair or Replacement	SY	1	THERE IS A 3/16" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT	
2816	Asphalt Surface Repair or Replacement	SY	2	1/2" TRANSVERSE CRACK IN NORTH APPROACH ASPHALT WEARING SURFACE OVER END BENT 2	
2816	Asphalt Surface Repair or Replacement	SY	2	1/4" TRANSVERSE CRACK IN SOUTH APPROACH ASPHALT WEARING SURFACE OVER END BENT 1	
2816	Asphalt Surface Repair or Replacement	SY	3	HAIRLINE TO 1/16" LONGITUDINAL CRACKS IN SPAN 2 ASPHALT WEARING SURFACE, ALL SPANS ARE SIMILAR	
3306	Maintain Concrete Superstructure Components	SF	5	BENT 1 END DIAPHRAGM SURFACE SPALLED WITH EXPOSED REBAR , SIMILAR AT SEVERAL LOCATIONS	
3322	Maint to Steel Handrail	LF	2	LEFT RAIL POSTS 1 AND 2 ARE LOOSE AT SOUTHWEST CORNER	
3322	Maint to Steel Handrail	LF	88	PAINT PEELING IN LEFT RAIL IN ALL SPANS	
3322	Maint to Steel Handrail	LF	88	PAINT PEELING IN RIGHT RAIL AT ALL SPANS	
3326	Maintain Concrete Deck	SF	1	SURFACE SPALL 12" DIAMETER X 1/2" DEEP WITH 8" EXPOSED REBAR IN TOP OF CHANNEL 12 IN SPAN 3 AT END BENT 2 NEAR DRAIN	
3342	Clean and Paint Structural Steel	SF	20	CHANNEL 9 BEARING PLATE WITH RUST IN SPAN 1 AT BENT 1, ALL BEARING PLATES ARE SIMILAR	
3344	Repair / Replace Timber Substructure Components	LF	10	DECAYED CROSSBRACING AT BENT 2, SPAN 2 SIDE AT PILE 2	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



BENT 1 END DIAPHRAGM SURFACE SPALLED WITH EXPOSED REBAR , SIMILAR AT SEVERAL LOCATIONS



CHANNEL 9 BEARING PLATE WITH RUST IN SPAN 1 AT BENT 1, ALL BEARING PLATES ARE SIMILAR



CHANNEL 10 RIGHT LEG AT SPAN 1, BENT 1 IS CRACKED UP TO 1/16"



REPAIRS IN SPAN 1 AT MIDSPAN ON CHANNELS 9 AND 10



BENT 1 PILES WITH HAIRLINE CHECKING



BENT 1 CAP, SPAN 1 FACE IS SPALLED 4" DIAMETER X 1" DEEP UNDER CHANNEL 10



CUT OFF PILES IN SPAN 2 WATERWAY



DECAYED CROSSBRACING AT BENT 2, SPAN 2 SIDE AT PILE 2



EXPOSED CABLE ENDS AT EAST END OF BENT 1 CAP, ALL CAPS ARE SIMILAR



LEFT EXTERIOR RAIL HAS PAINT PEELING AT SPAN 1



1/4" TRANSVERSE CRACK IN SOUTH APPROACH ASPHALT WEARING SURFACE OVER END BENT 1



HAIRLINE TO 1/16" LONGITUDINAL CRACKS IN SPAN 1 ASPHALT WEARING SURFACE



SCATTERED DEBRIS ALONG LEFT CURB



PAINT PEELING IN LEFT RAIL IN ALL SPANS



MANY DECK DRAINS ARE BLOCKED BY DEBRIS



THERE IS A 3/16" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT



PAINT PEELING IN RIGHT RAIL AT ALL SPANS



HAIRLINE TO 1/16" LONGITUDINAL CRACKS IN SPAN 2 ASPHALT WEARING SURFACE, ALL SPANS ARE SIMILAR



LEFT RAIL POSTS 1 AND 2 ARE LOOSE AT SOUTHWEST CORNER



3/16" TO 1/2" TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER BENT 2 JOINT



LONGITUDINAL CRACKS IN SPAN 3 ASPHALT WEARING SURFACE



1/2" TRANSVERSE CRACK IN NORTH APPROACH ASPHALT WEARING SURFACE OVER END BENT 2



NORTH APPROACH ASPHALT WEARING SURFACE IS ROUGH AND UNEVEN



SURFACE SPALL 12" DIAMETER X 1/2" DEEP WITH 8" EXPOSED REBAR IN TOP OF CHANNEL 12 IN SPAN 3 AT
END BENT 2 NEAR DRAIN



BOTH STANDARD JOINTS EXHIBIT LEAKAGE ON CAPS

Structure Data Worksheet

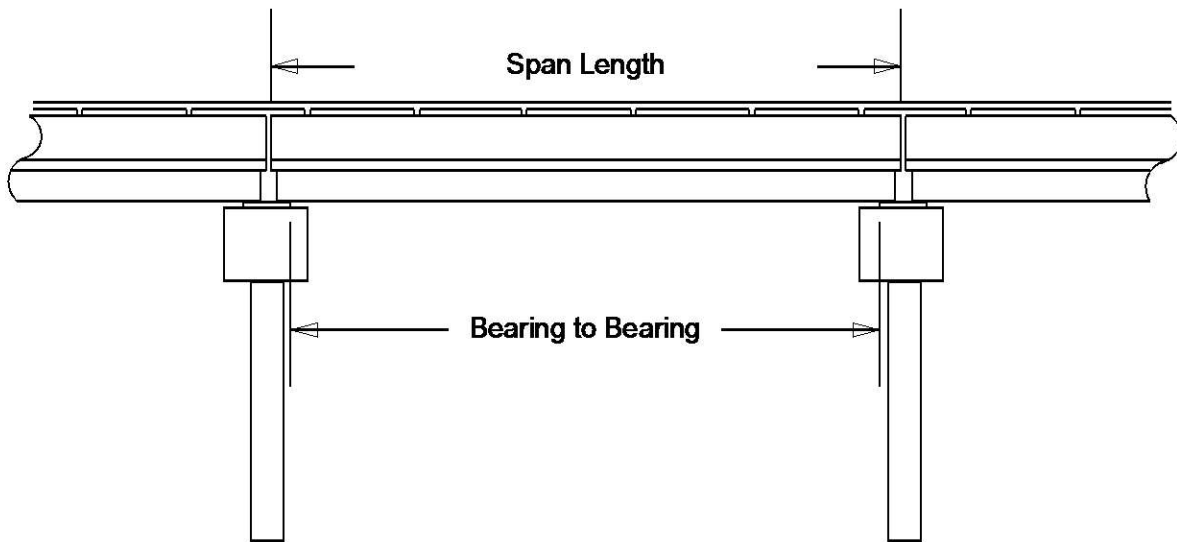
Spans

County: CUMBERLAND

Structure No: 250042

Date: 02/18/2014

Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	30.5 FT.	29.167FT.	
2	30.0 FT.	29.583 FT.	
3	30.5 FT.	29.167 FT.	
TOTAL	91.0 FT.		NBIS 88.333 FT.

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 250042 County: CUMBERLAND Date: 02/18/2014 By: RDH

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

Distance from Highwater Mark to top of rail: 6.5 Location of Highwater Mark: MARK ON PILES

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.4	TOP OF TIMBER BULKHEAD			
2	4.3	Top of Cap			
2.1	6.5	GROUND AT CAP	2.1	7.3	GROUND AT CAP
10	7				
20	7.2				
27	8	WSWE (EAST)			
30	9.2	BENT 1	30	13.5	BENT 1
45	15.2				
60	12.2	BENT 2	60	12	BENT 2
67	8	WSWE			
75	8.2				
85	7.2				
89	6.8	GROUND AT CAP	89	6.7	GROUND AT CAP
89.1	4.3	Top of Cap			
91	2.4	TOP OF TIMBER BULKHEAD			

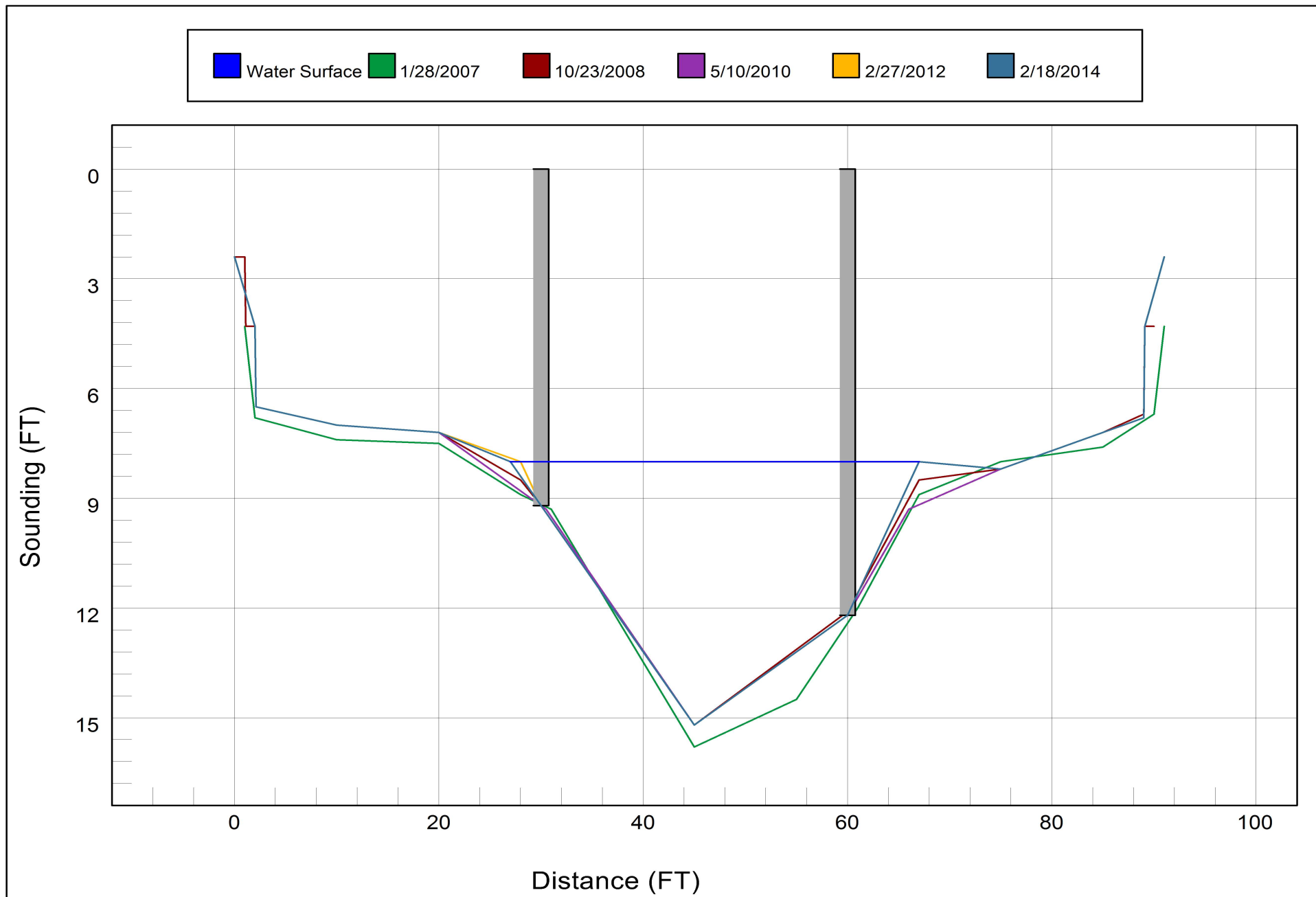
Bridge: 250042

County CUMBERLAND

Date: 02/18/2014

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-2030 (HOLLOW BRIDGE ROAD)



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

MEASUREMENTS VERIFIED BY RLK 5/10/10

MEASUREMENTS VERIFIED BY RLK 2/27/12

MEASUREMENTS VERIFIED BY RLK 2/18/14

Title

APPROACH ROADWAY

Description

LOOKING NORTH

Bridge No: 250042

Drawn By: KMM

Date: 01/26/2007

File Name: S0242001344

Bridge Inspection Field Sketch

Deck Width/Out to Out	30.75ft	Wearing Surface	.2083ft
Between Rails	30.4167ft	Median Width	
Curb Height	.7083ft	Median Height	
Top Rail to Deck/Wearing Surface	2.7083ft	Left Guardrail Width	.75ft
Clear Roadway	29.4167ft	Right Guardrail Width	.75ft
Left Bridge Rail	Type 23	Right Bridge Rail	Type 23

Measurements for Span #	1	SPANS 2 AND 3 SIMILAR	
Deck Thickness	.4167	Left Overhang	
Top of Rail to Bottom of Beam	4.3333	Right Overhang	

No. of Channels	12
Leg Width	.2083ft
Leg Height	1.0ft
Leg to Leg (Centers)	1.7917ft
Channel Width	2.5625ft
Channel Height	1.4167ft
Comments	

MEASUREMENTS VERIFIED BY RLK 5/10/10

MEASUREMENTS VERIFIED BY RLK 2/27/12

MEASUREMENTS VERIFIED BY RLK 2/18/14

Title

SUPERSTRUCTURE

Description

12 LINES OF PPC CHANNELS

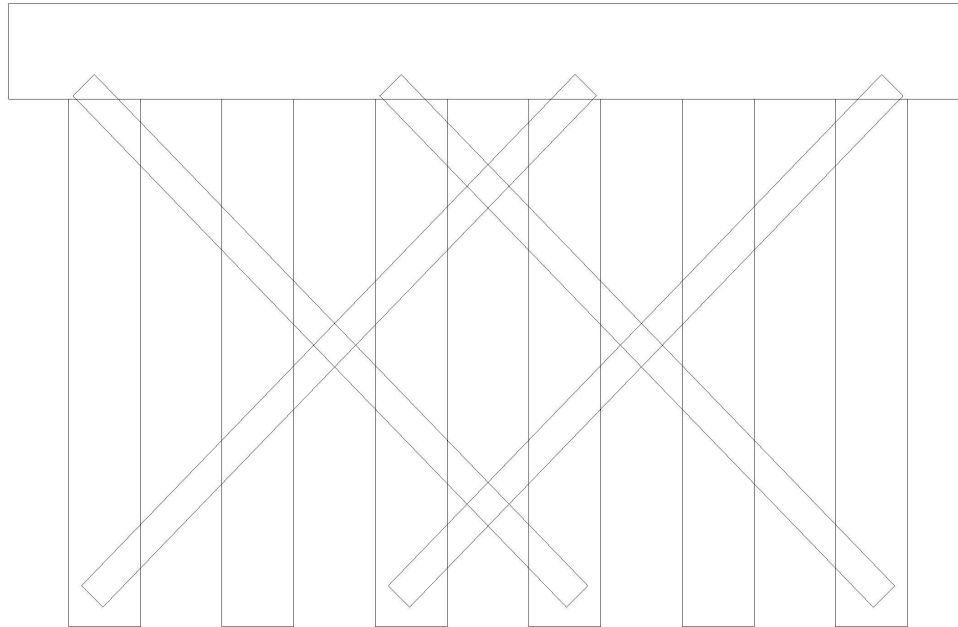
Bridge No: 250042

Drawn By: KMM

Date: 01/26/2007

File Name: S0242001345

Bridge Inspection Field Sketch



CROSS BRACING ON INTERIOR BENTS ONLY

Abutment #	1	Abutment 2 and Bents similar	
Cap - Pre-Cast			
Cap Size	31.5ft Long	1.3333ft Wide	1.0ft High
Left Overhang	1.5833ft	Lt Cap/Beam Overhang	1.0729ft
Right Overhang	1.5833ft	Rt Cap/Beam Overhang	1.0729ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	5.6667		1.0		Vertical
2	Wood or Timber	Pile Bent	5.6667		1.0		Vertical
3	Wood or Timber	Pile Bent	5.6667		1.0		Vertical
4	Wood or Timber	Pile Bent	5.6667		1.0		Vertical
5	Wood or Timber	Pile Bent	5.6667		1.0		Vertical
6	Wood or Timber	Pile Bent			1.0		Vertical

MEASUREMENTS VERIFIED BY RLK 5/10/10

MEASUREMENTS VERIFIED BY RLK 2/27/12

MEASUREMENTS VERIFIED BY RLK 2/18/14

Title		Description	
SUBSTRUCTURE		SIMILAR END BENTS AND BENTS	
Bridge No:	250042	Drawn By:	KMM
Date:	01/26/2007	File Name:	S0242001346

Bridge Inspection Field Sketch

NORTH
↑

END BENT 2



4.5' 4.5'

FLOW
→

4.5' 1.4'

END BENT 1

W/S TO TOP OF RAIL WEST SIDE OF BENT 2 - 8.3'

SILT/CLAY BOTTOM WITH PROBES TO 1.5'

Title

PLAN VIEW

Description

TOP VIEW

Bridge No: 250042

Drawn By: PGR

Date: 3/26/2009

File Name: S0178000743



LOOKING NORTH (HOLLOW BRIDGE ROAD)



LOOKING NORTH



EAST PROFILE



END BENT 1



BENT 1



EAST END OF BENT 1



BENT 2



SPAN 2 UNDERSIDE, ALL SPANS ARE SIMILAR



UPSTREAM WEST, THRU SPAN 2



DOWNSTREAM EAST, THRU SPAN 2



WEST PROFILE



LOOKING SOUTH, OFF BRIDGE



LOOKING NORTH, OFF BRIDGE



UPSTREAM WEST



DOWNSTREAM EAST



LOOKING SOUTH



LOOKING SOUTH



END BENT 2