ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE:	Routine inspection		
COUNTY GASTON	BRIDGE NUMBER	350440 INSPECTION C	YCLE 2 YRS
ROUTE SR2200	ACROSS DUHAR	T`S CREEK	M.P. <u>0</u>
LOCATION 0.05 MI. N. JCT. US29/74			
TRIPLE 8' X 7' RCBC	(110' ALONG CENTI	ERLINE OF CULVERT)	
SUPERSTRUCTURE			
SUBSTRUCTURE INTERIOR WALLS:6"			
SPANS			
LONGITUDE 81° 8′ 5.16″		LATITUDE 35° 15' 42.23"	
INSPECTION DATE 05/28/2013	P	RESENT CONDITION GOO)D
PRESENT POSTING N	NOT POSTED	PROPOSED POSTING	
OTHER SIGNS PRESENT NONE			



SIGN NOTICE NUMBERED ISSUED FOR REQUIRED

Fracture Critical

Scour Critical

Scour POA

Temporary Shoring

No	WEIGHT LIMIT	
No	DELINEATORS	
No	NARROW BRIDGE	

ONE LANE BRIDGE

No

No

No

No

No LOW CLEARANCE

No

SOUTH APPROACH

IDENTIFICATION -			
(1) STATE NAME -NORTH CAROLINA BRIDGE	350440	SUFFICIENCY RATING =	95.39
(8) STRUCTURE NUMBER(FEDERAL) 000	000000710440	STATUS = Not Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31022000		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		- CODE
(3) COUNTY CODE 71 (4) PLACE CODE	25580	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - DUHART`S CREEK		(104)HIGHWAY SYSTEM Is on the NHS	1
(7) FACILITY CARRIED SR2200		(26) FUNCTIONAL CLASS - Other Principal Arterial	14
(9) LOCATION 0.05 MI. N. JCT. US29/74		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 15' 42.23" (17)LONG 81° 8' 5.1	6"	(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA	RE	(103)TEMPORARY STRUCTURE -	
(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: Concrete continuous		(22) OWNER - State Highway Agency	01
TYPE - Culverts (includes frame culverts)	CODE 219	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :			
TYPE -	CODE 000	CONDITION	CODE
(45) NUMBER OF SPANS IN MAIN UNIT	3	(58) DECK	N
(46) NUMBER OF APPROACH SPANS		(59) SUPERSTRUCTURE	N
(107)DECK STRUCTURE TYPE - N	CODE	(60) SUBSTRUCTURE	N
(108)WEARING SURFACE / PROTECTIVE SYSTEM :		(61) CHANNEL & CHANNEL PROTECTION	7
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	7
(B) TYPE OF MEMBRANE -	CODE	LOAD RATING AND POSTING	CODE
(C) TYPE OF DECK PROTECTION -	CODE	(31) DESIGN LOAD HS 20 + MOD	6
		(63) OPERATING RATING METHOD - Load Factor	1
AGE AND SERVICE		(64) OPERATING RATING - HS-26	46
(27) YEAR BUILT	1970	(65) INVENTORY RATING METHOD - Load Factor	1
(106)YEAR RECONSTRUCTED		(66) INVENTORY RATING - HS-20	36
(42) TYPE OF SERVICE : ON - Highway	0005 45	(70) BRIDGE POSTING - No Posting Required	5
UNDER - Waterway	CODE 15	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	Α
(28) LANES: ON STRUCTURE 5 UNDER STRUCTURE	0 17000	DESCRIPTION - Open, No Restriction	CODE
(29) AVERAGE DAILY TRAFFIC (30) YEAR OF ADT 2010 (109) TRUCK ADT PCT	17000		CODE 7
(30) YEAR OF ADT 2010 (109) TRUCK ADT PCT (19) BYPASS OR DETOUR LENGTH	2 MI	(67) STRUCTURAL EVALUATION (68) DECK GEOMETRY	, N
	Z IVII		N
GEOMETRIC DATA (48) LENGTH OF MAXIMUM SPAN	8 FT	(69) UNDERCLEARANCES, VERTI & HORIZ (71) WATERWAY ADEQUACY	7
(49) STRUCTURE LENGTH	25 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT	0 FT	(36) TRAFFIC SAFETY FEATURES	NNNN
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	0 FT	(113)SCOUR CRITICAL BRIDGES	8
(52) DECK WIDTH OUT TO OUT	0 FT	•	O
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	75 FT	PROPOSED IMPROVEMENTS	
(33) BRIDGE MEDIAN - No Median	CODE 0	(75) TYPE OF WORK - CODE	
(34) SKEW 15° (35) STRUCTURE FLARED		(76) LENGTH OF STRUCTURE IMPROVEMENT	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(94) BRIDGE IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	74.8 FT	(95) ROADWAY IMPROVEMENT COST (96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	0 FT	(96) TOTAL PROJECT COST (97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT	(114)FUTURE ADT 34000 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT	(113) TEAR POTORE ADT	2020
(56) MIN LAT UNDERCLEAR LT REF -	000 FT		
		(90) INSPECTION DATE	5/28/2013
NAVIGATION CONTROL No Novigetional Control	COPE "	(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 ET	C) OTHER SPECIAL INSP NO C)	
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT 0 FT	SCOUR	
(40) NAVIGATION HORIZONTAL CLEARANCE	UFI		

0 FT

(40) NAVIGATION HORIZONTAL CLEARANCE

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 07/05/2013

CITY:

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH: FEET

GASTON 12 350440

ROUTE CARRIED: FEATURE INTERSECTED:

SR2200 DUHART'S CREEK

LOCATED: BRIDGE NAME: 0.05 MI. N. JCT. US29/74

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE: NFA 14 FA 17000 2010 LT 0 RT 0

BUILT: BY: PROJ: FED.AID PROJ: **DESIGN LOAD:**

DOH **HS 20 + MOD** 1970

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

TAN 105 5 **UNDER** 0 ON

NAVIGATION: HT. CRN. TO BED: WATER DEPTH:

0 HC 0 FT 20 FT FT VC FT

SUPERSTRUCTURE: TRIPLE 8'X7' RC BOX CULVERT; 110' ALONG CENTERLINE CULVERT

SUBSTRUCTURE: **INTERIOR WALLS:6"**

BEAMS OR GIRDERS:

FLOOR: **ENCROACHMENT:** DECK (OUT TO OUT):

0 FT

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

0 FT 0 FT LT 0 FT RT 0 FT

VERT.CL.OVER:

0 FT

SPANS:

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-20 HS-26 SV TTST DATE

SYSTEM: **GREEN LINE ROUTE:**

Secondary S.R. Route Ν

UNDER ROUTES AND CLEARANCES

BRIDGE INSPECTION RECORD AND SUMMARY (R. C. BOX CULVERTS)

INSPECTION TYPE Routine Inspection BRIDGE NO. 350440

ROUTE SR2200

INSPECTION DATE 05/28/2013

ROUTE ORIENTATION S - N

OVER DUHART'S CREEK

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

1. Top Slab			G
2. Bottom Slab			G
3. Ext. & Int. Wa	alls		G
4. Wingwalls - F	Retaining Walls		G
5. Headwalls, T	oewalls, Flumes		G
6. Structure Alig	gnment - Settlement		G
7. Drainage Sys	stems (On Structure)		G
8. Channel &	a. Waterway		G
Channel Protection	b. Alignment		G
	c. Scour		G
	d. Slope Prot. (Rip-Rap, D		
9. Approach Roadway Condition		G	
10. Estimated F	Remaining Life		40
11. Channel & 0	Channel Protection	Item 61	7
12. Culvert & Retaining Walls Item 62		7	
13. Waterway Adequacy Item 71		7	
14. Approach Roadway Item 72			8
15. Field Scour Evaluation			G
16. Presently Posted			NO
17. Regulatory Sign Notice Issued			NO
18. Prompt Action Notice Issued			NO
19. Total Field Inspection Time		4	
20. Inspected B	у	Hed R.L.	1

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT		
State of North Carolina Dept. of Transportation		Bridge Inspecion & Analysis		
Division of Highways				
Team Leader	DEREK RIC	KUS		
Assisted By	DJA			
Item No.	Grade			
8a	G	DIMENT IN BARREL 1		
3	G	/ERTICAL CRACKING ALONG THE INT. AND EXTERIOR WALLS. IZ. CRACKING ALONG THE SOUTHWEST WING		

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 350440 County GASTON Date: 05/28/2013

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

	-				
MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	112	H/L VERTICAL CRACKING ALONG THE INT. AND EXTERIOR WALLS.	





1' SEDIMENT IN BARREL 1



H/L VERTICAL CRACKING ALONG THE INT. AND EXTERIOR WALLS.

Bridge Inspection Field Sketch

CHAIN LINK FENCE

5 FT SIDEWALK

COX ROAD (SR-2200) SOUTHBOUND
1 RIGHT TURN LANE, 2 THROUGH LANES, 1 LEFT TURN LANE

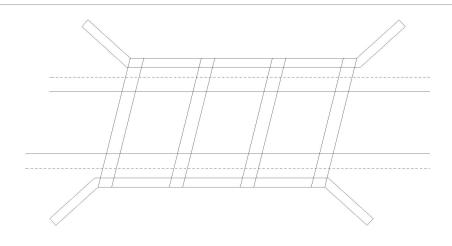
COX ROAD (SR-2200) NORTHBOUND 3 THROUGH LANES

Left Lanes				
Roadway	41.3ft Wide 4 Paved Lanes South Bour		South Bound	
Right Shoulder	8ft Wide	2ft Paved	6ft Unpaved	
Right Guardrail				
Left Guardrail				
Median	1.9ft Wide	0.5ft High		
Right Lanes				
Roadway	29.5ft Wide	3 Paved Lanes	North Bound	
Right Shoulder	9ft Wide	2ft Paved	7ft Unpaved	
Left Guardrail				
Right Guardrail				

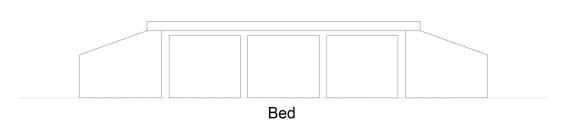
VERIFIED 5-21-2013 BY DELVIN ADAMS

Title		Descri	ption	
APPROACH ROADWAY		LOOKING NORTH		
Bridge No: 350440	Drawn By: DELVIN ADAMS		Date: 5/9/2011	File Name: \$0146031543

Bridge Inspection Field Sketch



Crown of Roadway



Number of Barrels Skew		Distance From Crown to Bed	
3	105° 20ft		
Length Along Center Line of Culvert		Length Along Center Line of Roadway	
110ft		25ft	

Barrel #	Width	Height	Wall Thickness	Scour at Inlet	Scour at Outlet
1	8.000ft	7.000ft	0.5ft	No	No
2	8.000ft	7.000ft	0.5ft	No	No
3	8.000ft	7.000ft		No	No

VERIFIED 5-21-2013 BY DELVIN ADAMS

Description		
PLAN & PROFILE		
Date: 5/9/2011	File Name:S0146031544	
	PLAN & PROFILE	



NORTH APPROACH



SOUTH APPROACH



DOWNSTREAM



LOOKING DOWNSTREAM



LOOKING UPSTREAM



UPSTREAM