

PREDESIGN-PRESURVEY REPORT

Project# _____
 TIP# _____
 Let Date _____
 WBS# 17BP.6.R.77

County ROBEYSON

Bridge# 770223
 Road# SR1303 (OLD RED SPRINGS)
 Stream GUM SWAMP

Type Of Request: POC Force Account TIP NCMA

Date _____ Name MATTHEW MACON

Assigned To Andy Jordan

Checked By _____

Prior Survey Date _____ (attach copy of prior survey)

Study By Scour Section _____

Flood Zone YES Detail Study LIMITED Date 1/19/2005 Panel# 9316

B.M. Info _____

Quad Map WALKULLA Drainage Area 24.5 m.² From STREAMSTARTS / Quad
 Q25 102 cfs Q50 210 cfs Q100 2541 cfs Method USGS ROL REGRESSION

EXISTING BRIDGE INFORMATION

Location 0.2 MI. W. JCT SR1339 (DEEP BRANCH RD)

Average Daily Traffic 1700

Length 53 FT Bed- To Crown 8 FT Water Depth 4 FT

Type Structure RC FLOOR ON TIMBER PILES @ 8' CTS

Type Spans 1 @ 17'11", 1 @ 17'6", 1 @ 17'3", 1 @ 36'

Upstream Structure NOT COMPARABLE

Location _____

Bed- To Crown _____ Prior Survey _____

Downstream Structure 770221 - 1 @ 36', 1 @ 35'2" (SR 1352)

Location SR 1352, 0.3 MI. W. OF JCT. SR 1339 (DEEP BRANCH RD)

Bed- To Crown 14 FT Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL

Trout Stream NO Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO Nutrient Sensitive Waters NO

Near Water Supply Intake NO CAMA County NO

Stream Classification C

DENR River Basin Info. LOWER PEE-DEE Lumber

office estimated min brg length = 96'



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION PM ISSUED

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROBESON BRIDGE NUMBER 770223 INSPECTION CYCLE 2 YRS
ROUTE SR1303 ACROSS GUM SWAMP M.P. 0

LOCATION 0.2 MI.W.JCT SR1339

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON TIMBER JOISTS(STD BMD-10)

SUBSTRUCTURE EBTS&IBTS:TIMBER CAPS ON TIMBER PILES@8'CTS

1@17.917',1@17.5'1@17.25'

SPANS 1@17'11,1@17'6,1@17'3

LONGITUDE 79° 16' 16.22"

LATITUDE 34° 45' 41.91"

INSPECTION DATE 02/25/2014

PRESENT CONDITION FAIR

PRESENT POSTING Y

SV 24 TTST 31

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING EAST (OLD RED SPRINGS ROAD)

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>No</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 MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 04/02/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770223	53	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1303	GUM SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.2 MI.W. OF JCT SR1339		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	1700 2011	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1957	BMU			Unknown

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 8 FT		4 FT

SUPERSTRUCTURE : REINFORCED CONCRETE FLOOR ON TIMBER JOISTS(STD BMD-10)

SUBSTRUCTURE : EBTS&IBTS:TIMBER CAPS ON TIMBER PILES@8'CTS

SPANS : 1@17'11,1@17'6,1@17'3

BEAMS OR GIRDERS : 19 LINES 6X15 TIMBER JOISTS @ 1'4.5 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5RC/2.5 AWS		25.33 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.5 FT	LT .75 FT RT .75 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-9	HS-19	pile	SV 24	31	02/03/2009

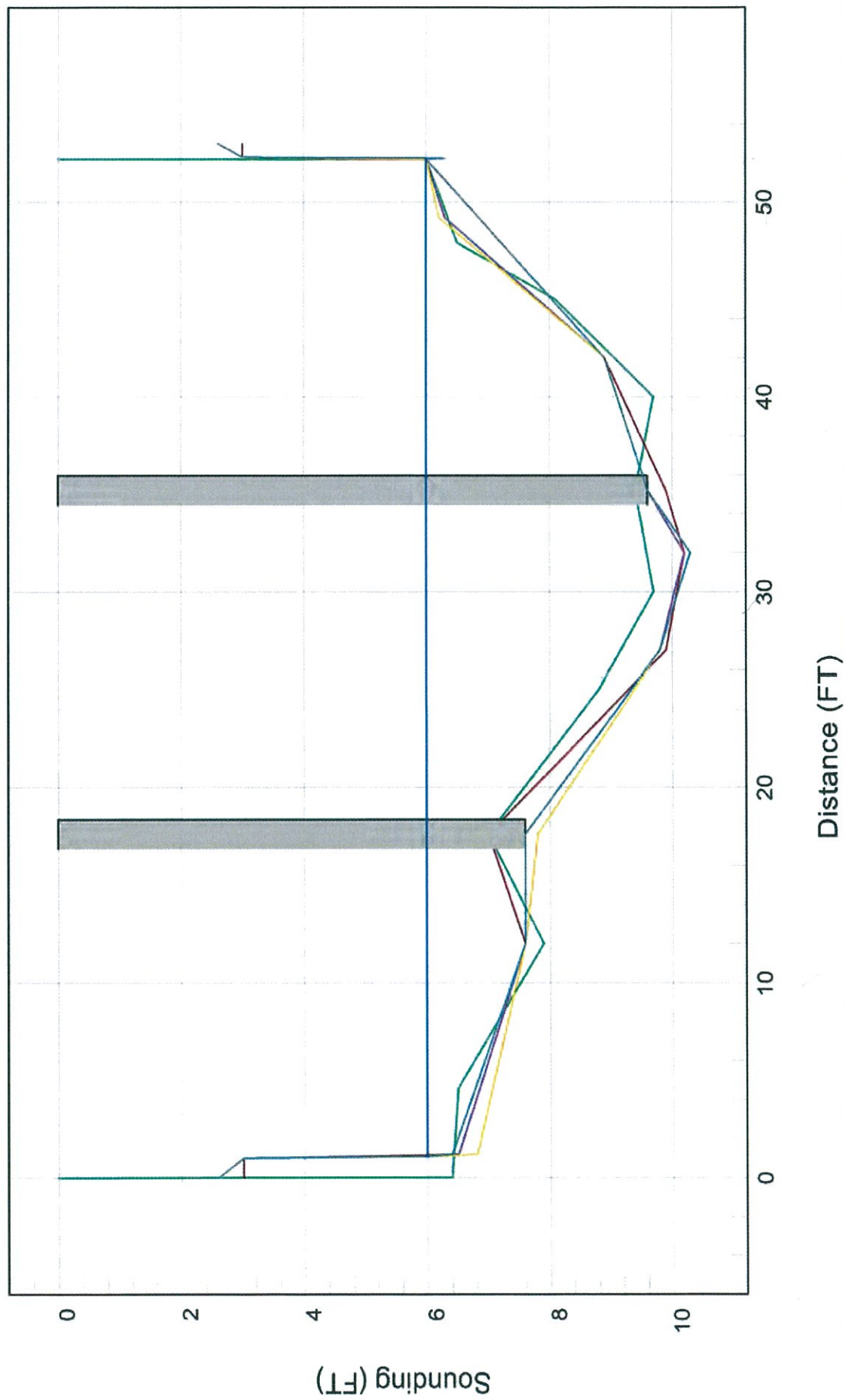
SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

UNDER ROUTES AND CLEARANCES

REMARKS :

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



$$8 \times 1.5 = 12 \times 2 = 24 + 20 + 52 = 96$$

DOWNSTREAM



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

Structure Safety Report

Routine Element Inspection

COUNTY: ROBESON STRUCTURE NUMBER: 770221 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1352 MILE POST:

LOCATION: 0.3 MI. W. OF JCT. SR1339

FEATURE INTERSECTED: GUM SWAMP

LATITUDE: 34° 44' 24.52" LONGITUDE: 79° 16' 50.74"

SUPERSTRUCTURE: PPC CORED SLAB(BMD29-27-90)

SUBSTRUCTURE: E.BTS&BTS:RC CAPS/STEEL PILES@VAR.CTS.

SPANS: 1@36";1@35"2;1@36"

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 12/09/2014

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



LOOKING NORTH (MISSOURI ROAD)

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>

INSPECTED BY
R.D. HEATH

SIGNATURE

R.D. Heath

ASSISTED BY R.L. KISNER

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 03/27/2015

COUNTY : ROBESON DIVISION : 6 DISTRICT : 1 STRUCTURE NUMBER : 770221 LENGTH : 107 FEET

ROUTE CARRIED : SR1352 FEATURE INTERSECTED : GUM SWAMP

LOCATED : 0.3 MI. W. OF JCT. SR1339 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 630 2011 RAIL TYPE : LT 41 RT 41

BUILT : 1993 BY : POC PROJ : 6.503312 FED.AID PROJ : DESIGN LOAD : HS 20 + MOD

REHAB : BY : PROJ : ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER 0

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 14 FT WATER DEPTH : 8 FT

SUPERSTRUCTURE : PPC CORED SLAB(BMD29-27-90)

SUBSTRUCTURE : E.BTS&BTS:RC CAPS/STEEL PILES@VAR.CTS.

SPANS : 1@36';1@35'2;1@36'

BEAMS OR GIRDERS : 10 LNS 36"PPC CORED SLAB SECTIONS

FLOOR : PPCCS/2.5 AWS ENCROACHMENT : DECK (OUT TO OUT) : 30.167 FT

CLEAR ROADWAY : 27.083 FT BETWEEN RAILS : 27.083 FT SIDEWALK OR CURB : LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-37 OPE.RTG. : HS-55 CONTR.MEMBER : Cored Slab POSTED : SV TTST DATE 10/08/1993

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

UNDER ROUTES AND CLEARANCES

Downstream

REMARKS :

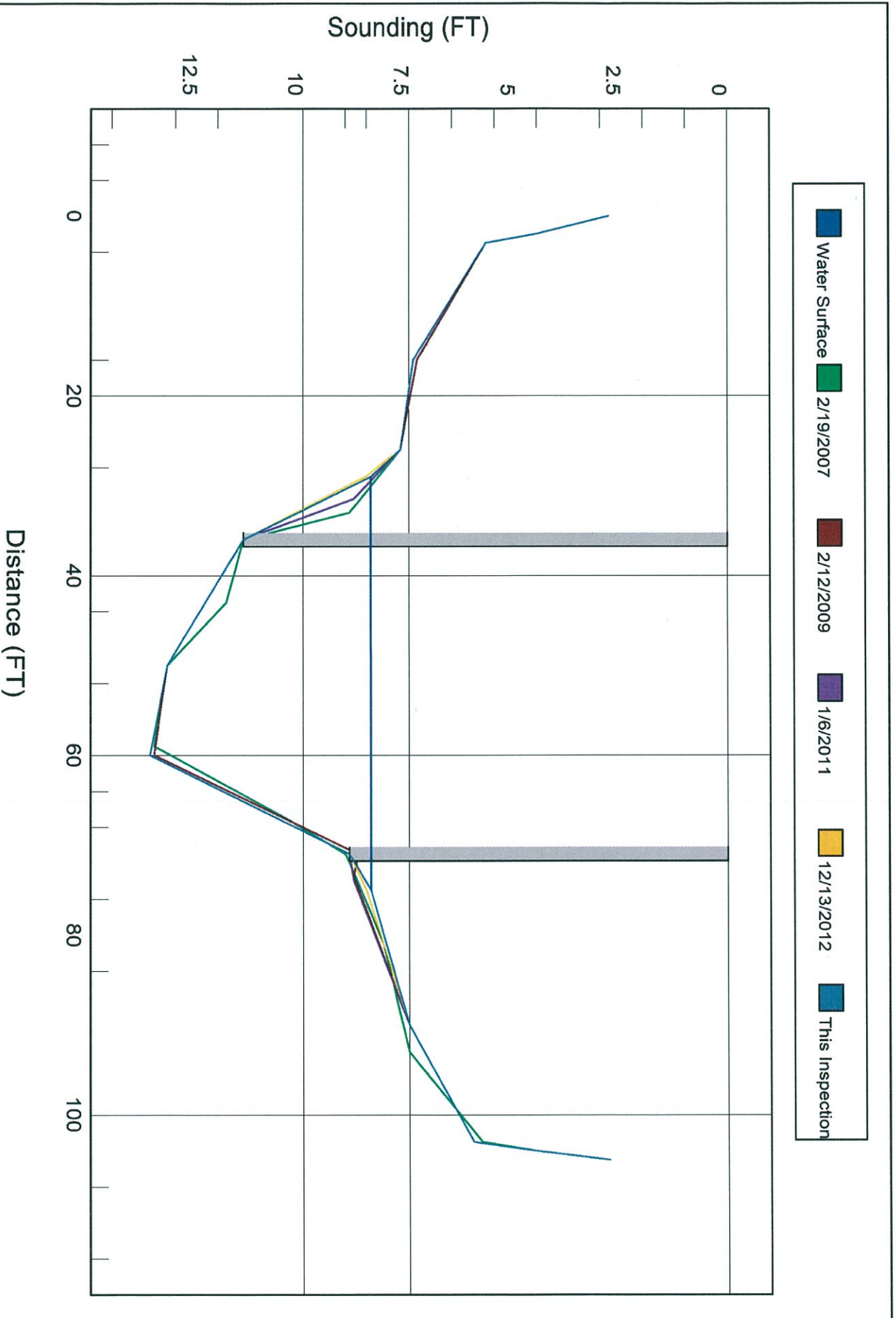
Bridge: 770221

County: ROBESON

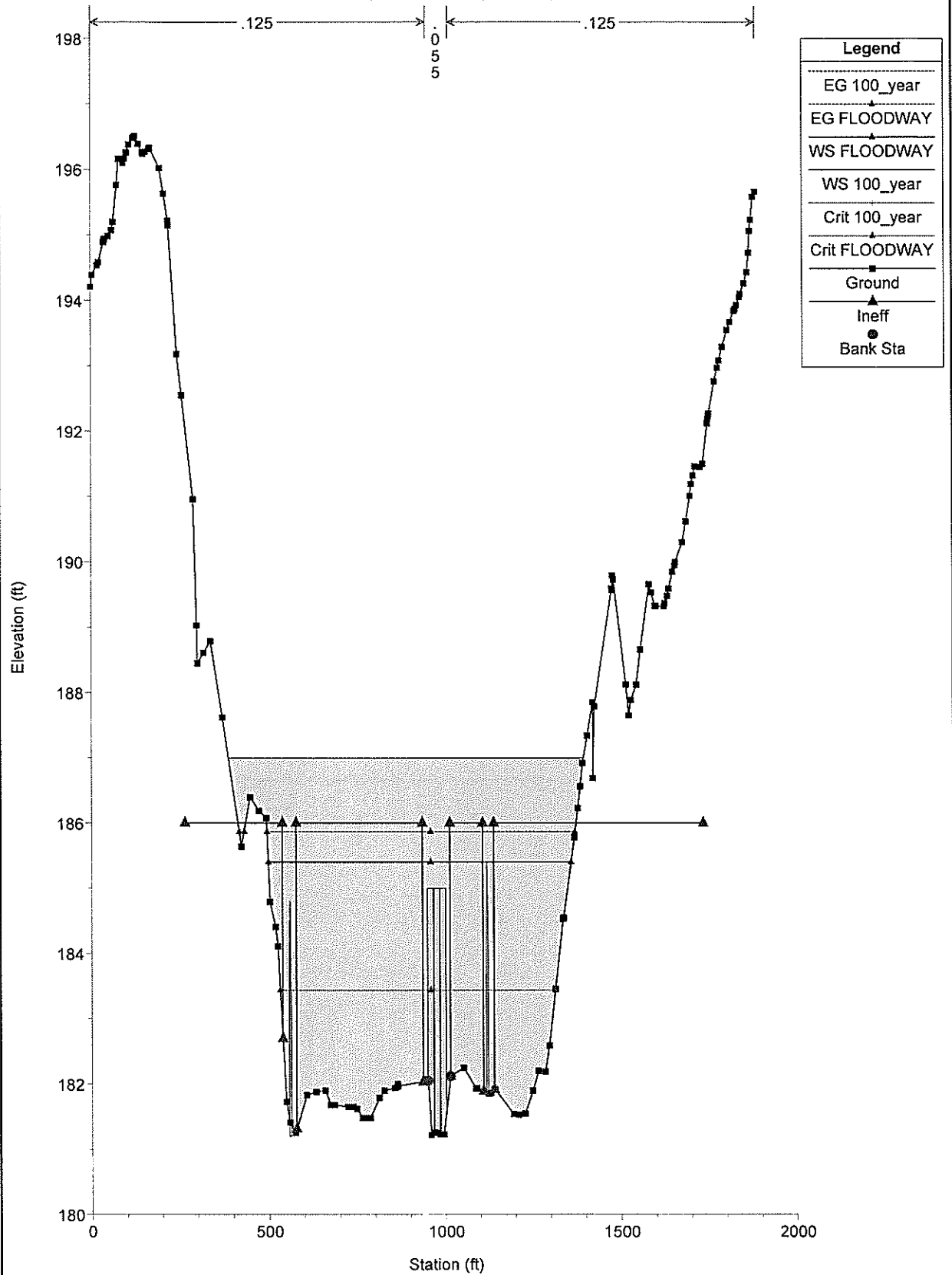
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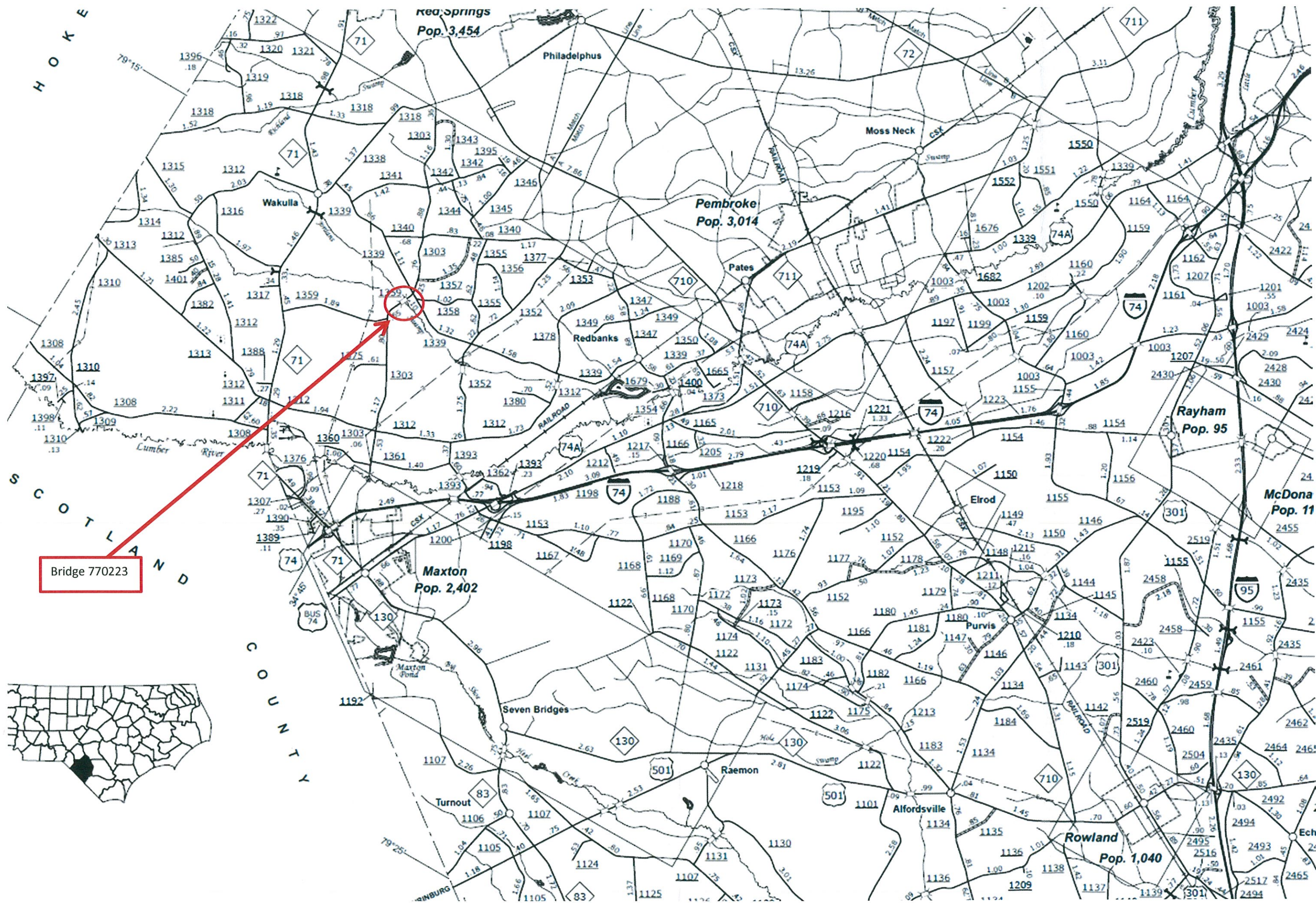
Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



Gum Swamp Plan: Existing Conditions (Ewbr) 5/29/2002
 SR1303; structures 223, 77 2257, and 77 2258







FRIS

Map Theme ▼



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Who Am I : Advanced ▼

Effective ▼

› Flood Information

› Risk Information

› Financial Vulnerability

› Flood Insurance

› FIS Reports

▼ Engineering Models

i Click a stream to view models.



Model Information

Stream: Gum Swamp

Model: Gum Swamp

Study: Limited Detailed Study

Start: The confluence with Lumber River

End: Approximately 120 feet upstream of Spring Hill Road

[Download Model](#)

› Map Export

› Data Export

FRIS

Map Theme ▼



Who Am I : General Public ⓘ ▼

Effective ▼

Flood Information

Click the map to view information. ⓘ

Map Location

Flood Zone: AE ⓘ

Flood Source: Gum Swamp

Base Flood Elevation: 186 ft ⓘ

County: Robeson

Political Area: Robeson County

CID: 370202

Panel: 9316 ⓘ Download

Map Number: 3710931600J

Panel Effective Date: 1/19/2005

Latitude: 34.76164

► Risk Information

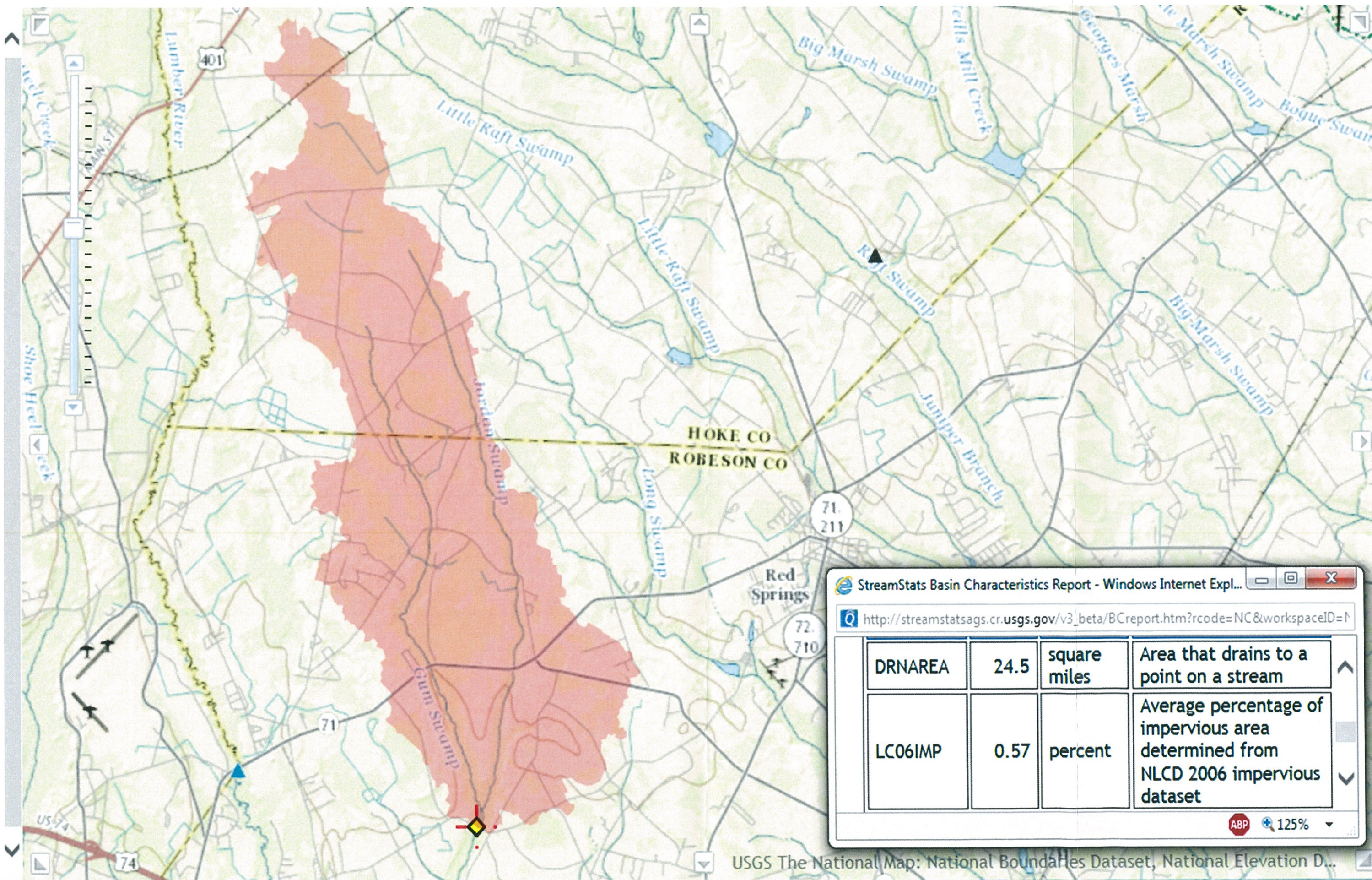
► Financial Vulnerability

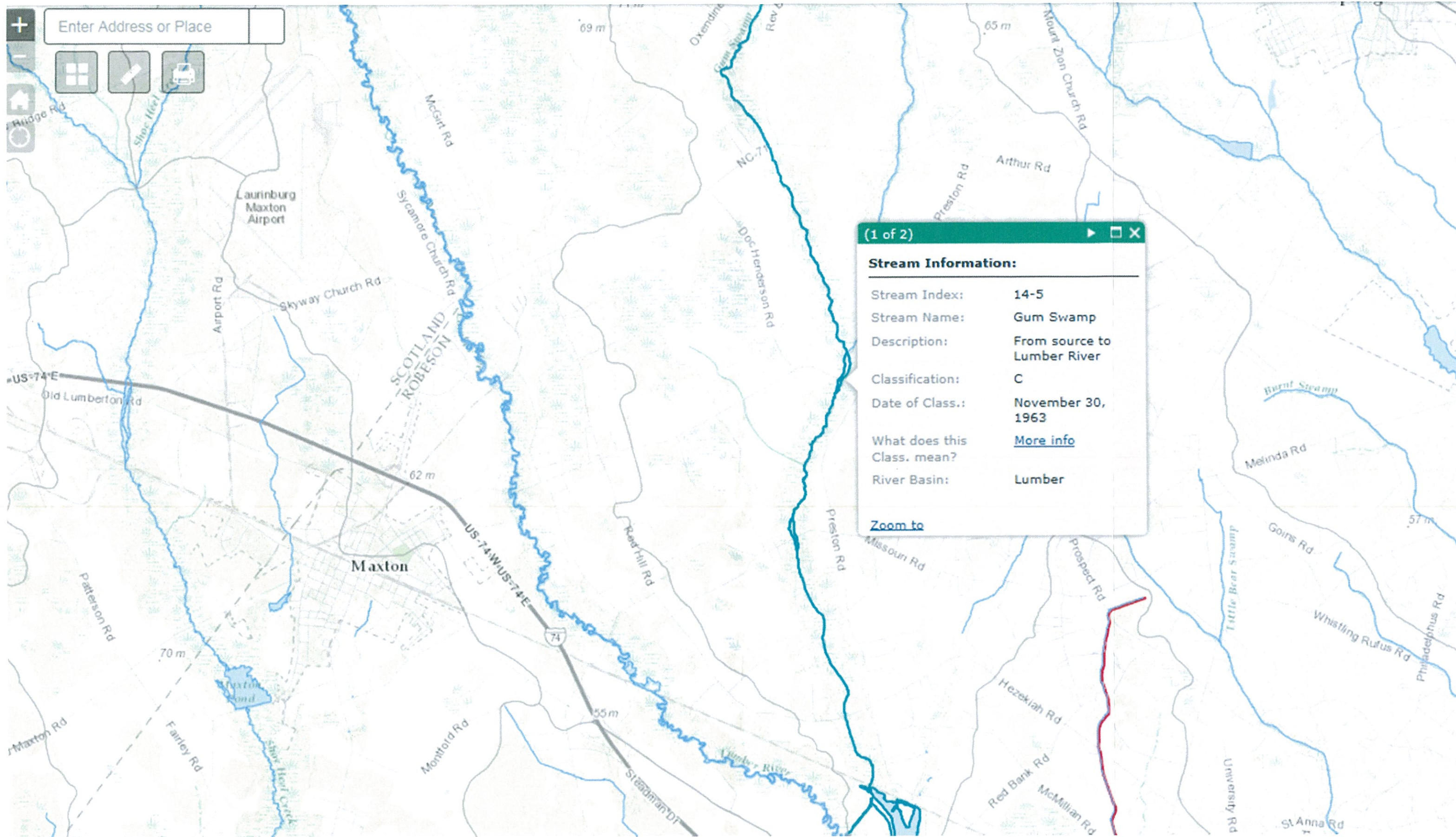
► Flood Insurance

► FIS Reports

► Map Export

► Data Export





(1 of 2) ▶ □ ✕

Stream Information:

Stream Index:	14-5
Stream Name:	Gum Swamp
Description:	From source to Lumber River
Classification:	C
Date of Class.:	November 30, 1963
What does this Class. mean?	More info
River Basin:	Lumber

[Zoom to](#)