

- 8' offset Left DS.

- 1055

- 2'-6"

- 30' out to out

Low Debr. Possible Drive relocate

PREDESIGN-PRESURVEY REPORT

Project Number 45611.1.1

TIP Number B-5656

Let Date _____

County WAYNE

Bridge Number 950133

Road Number SR 1127 - Herring Road

Stream Yellow Marsh Branch

Type Of Request: POC Force Account TIP

Date 1-28-16 Name SJ Sykes Assigned To _____

Checked By _____

Prior Survey Date 4-54 (attach copy of prior survey) Not Found

Study By Scour Section _____

Flood Zone YES Detail Study Redeline Date 12/2/2005 (attach copy of flood map) PANEL 2575

B.M. Info _____

Quad Map SW Goldsboro Drainage Area 5.7 sq mi From STREAM Stats

Q25 705 Q50 890 Q100 1075 Method USGS SJ Report 2009-5158

EXISTING BRIDGE INFORMATION

Location 0.8 mi S of JCT SR 1129

Average Daily Traffic 960 (yr 2012)

Length 35' Bed- To Crown 8' Water Depth 1'

Type Structure Reinforced concrete floor on timber joists, timber caps & piles

Type Spans 1 @ 17' 7", 1 @ 17' 10"

Upstream Structure _____

Location _____

Bed- To Crown _____ Prior Survey _____

Downstream Structure Brg # 19 (NC 13)

Location 0.5 mi S of JCT SR 1218

Bed- To Crown 26' Prior Survey Yes, not found

SCS Watershed _____

ENVIRONMENTAL

Trout Stream No Anadromous Fish No Primary Nursery Area No

High Quality Waters YES Nutrient Sensitive Waters YES

Near Water Supply Intake No CAMA County No

Stream Classification WS-IV, B, NSW

DENR River Basin Info. Neuse

office estimated min. brg length = 65'



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: priority maintenance issued on joists and cap
temporary pile repairs concrete encasements

Structure Safety Report

Routine Element Inspection

COUNTY: WAYNE STRUCTURE NUMBER: 950133 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1127 MILE POST: _____

LOCATION: 0.8 MI S JCT SR1129

FEATURE INTERSECTED: YELLOW SWAMP

LATITUDE: 35° 16' 48.78" LONGITUDE: 78° 5' 6.49"

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

SUBSTRUCTURE: E.BTS&INT.BT:TIMBER CAP/TIMBER PILES@8" CTS.

1@17'7";1@17'10"

SPANS: 1@17'7";1@17'10"

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

PRESENT CONDITION: Fair INSPECTION DATE: 05/19/2015

POSTED SV: 19 POSTED TTST: 27

OTHER SIGNS PRESENT: 4 Delineators



Looking north

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 <u>Willis C May</u>	SIGNATURE <u>Willis C May</u>	ASSISTED BY <u>Wayne T Wilkinson</u>
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NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL Update Date: 10/09/2015

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	950133	SUFFICIENCY RATING =		20.6
(8) STRUCTURE NUMBER(FEDERAL)		000000001910133	STATUS =		Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31011270			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3	CLASSIFICATION		
(3) COUNTY CODE 191	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -		YES
(6) FEATURE INTERSECTED -	YELLOW MARSH BRANCH		(104)HIGHWAY SYSTEM	Is not on NHS	0
(7) FACILITY CARRIED	SR1127		(26) FUNCTIONAL CLASS -	Local	09
(9) LOCATION	0.8 MI. S. JCT. SR1129		(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0
(11)MILEPOINT		0	(101)PARALLEL STRUCTURE -	No Parallel Structure	N
(16)LAT 35° 16' 48.78"	(17)LONG 78° 5' 6.49"		(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:	Wood or Timber		(22) OWNER -	State Highway Agency	01
TYPE -	Stringer Multibeam or Girder	CODE 702	(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5
(44) STRUCTURE TYPE APPR :			CONDITION		
TYPE -		CODE 000	(58) DECK		6
(45) NUMBER OF SPANS IN MAIN UNIT		2	(59) SUPERSTRUCTURE		6
(46) NUMBER OF APPROACH SPANS			(60) SUBSTRUCTURE		4
(107)DECK STRUCTURE TYPE -	1	CODE	(61) CHANNEL & CHANNEL PROTECTION		7
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(62) CULVERTS		N
(A) TYPE OF WEARING SURFACE -		CODE	LOAD RATING AND POSTING		
(B) TYPE OF MEMBRANE -		CODE	(31) DESIGN LOAD	Unknown	0
(C) TYPE OF DECK PROTECTION -		CODE	(63) OPERATING RATING METHOD -	Allowable Stress	2
			(64) OPERATING RATING -	HS-1	1
			(65) INVENTORY RATING METHOD -	Allowable Stress	2
			(66) INVENTORY RATING -	HS-1	1
			(70) BRIDGE POSTING -	Posting Required	0
			(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P
			DESCRIPTION -	Posted for Load	
AGE AND SERVICE			APPRAISAL		
(27) YEAR BUILT		1954	(67) STRUCTURAL EVALUATION		3
(106)YEAR RECONSTRUCTED			(68) DECK GEOMETRY		4
(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		960	(36) TRAFFIC SAFETY FEATURES		0000
(30) YEAR OF ADT	2012		(113)SCOUR CRITICAL BRIDGES		U
(109) TRUCK ADT PCT		6%	PROPOSED IMPROVEMENTS		
(19) BYPASS OR DETOUR LENGTH		5 MI	(75) TYPE OF WORK -		CODE
GEOMETRIC DATA			(76) LENGTH OF STRUCTURE IMPROVEMENT		
(48) LENGTH OF MAXIMUM SPAN		17 FT	(94) BRIDGE IMPROVEMENT COST		
(49) STRUCTURE LENGTH		35 FT	(95) ROADWAY IMPROVEMENT COST		
(50)CURB OR SIDEWALK: LEFT	.75 FT RIGHT	.75 FT	(96) TOTAL PROJECT COST		
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE		
(52) DECK WIDTH OUT TO OUT		25.333 FT	(114)FUTURE ADT	1920	(115) YEAR FUTURE ADT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		21 FT			2025
(33) BRIDGE MEDIAN -	No Median	CODE 0	INSPECTIONS		
(34) SKEW	0°		(90) INSPECTION DATE		05/19/2015
(35) STRUCTURE FLARED		0	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT	A) FRACTURE CRIT DETAIL -	NO	A)
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 FT	B) UNDERWATER INSP -	NO	B)
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT	C) OTHER SPECIAL INSP	NO	C)
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad	0 FT	SCOUR		
(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			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 10/09/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WAYNE	4	3	950133	35	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1127	YELLOW MARSH BRANCH

LOCATED :	BRIDGE NAME :	CITY :
0.8 MI. S. JCT. SR1129		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	960 2012	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1954	BMU			Unknown

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :	
VC 0 FT	HC 0 FT		8 FT		1 FT	

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

SUBSTRUCTURE : E.BTS & INT.BT:TIMBER CAP ON TIMBER PILES @8' 0" CENTERS

SPANS : 1@17'7", 1@17'10"

BEAMS OR GIRDERS : 19 LINES OF 6" X 12" TIMBER JOISTS @ VARIOUS CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5.5" RC, 2" AWS	1 LINE 2" UTILITY PIPE	25.333 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. :	OPS.RTG. :	CONTR.MEMBER :	POSTED :			
HS-1	HS-1	Joist	SV 19 TTST 27	DATE	08/22/2011	

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

UNDER ROUTES AND CLEARANCES

REMARKS :

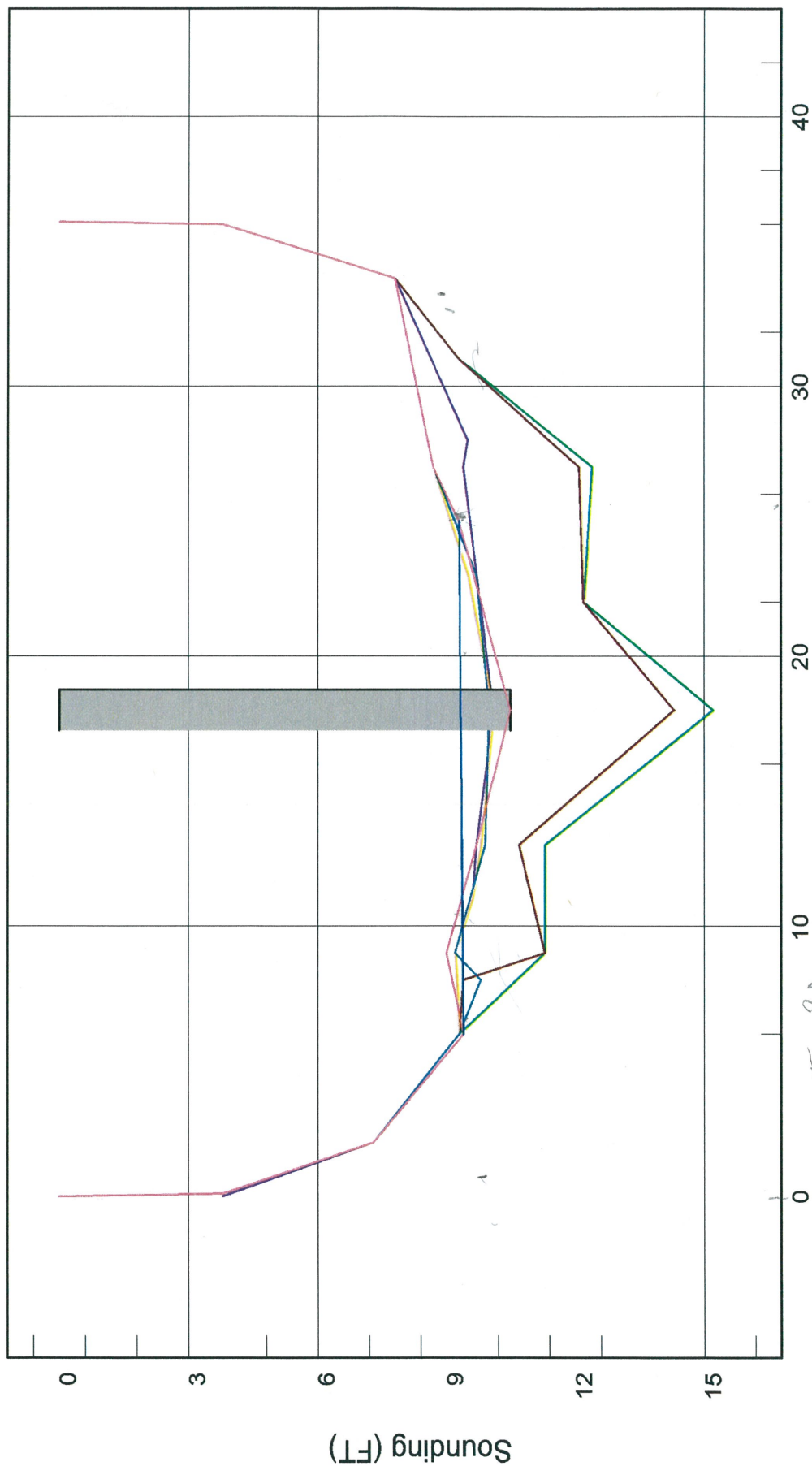
Bridge: 950133

County WAYNE

Date:

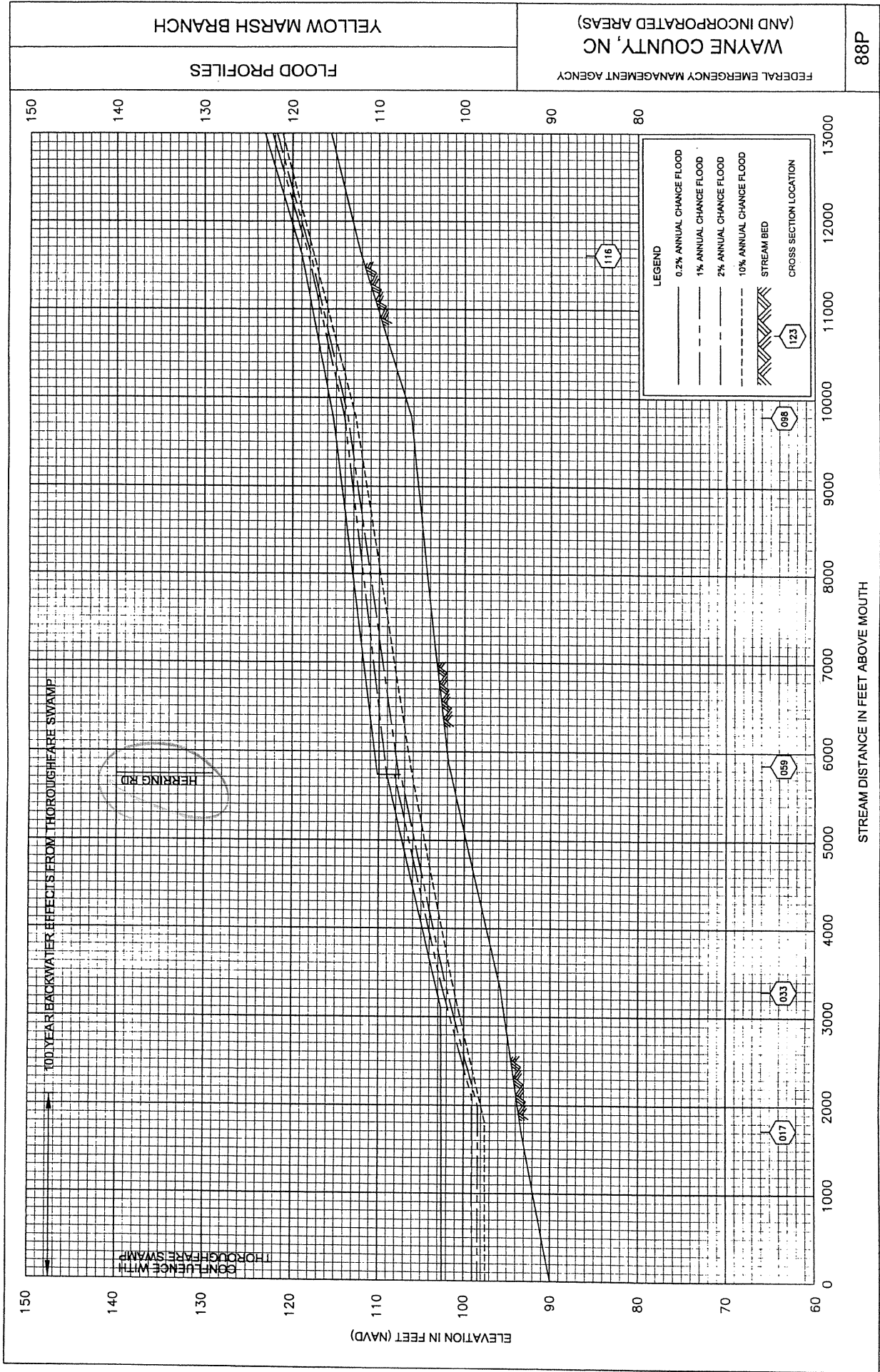
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



$$8 \times 1.5 = 12 \times 2 = 24 + 20 + 20 = 64'$$

Distance (FT)



Section 5.0 – Engineering Methods

Table 8—Summary of Discharges

Flooding Source	Location	Drainage Area (square miles)	Discharges (cfs)			
			10% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Watery Branch (continued)	Approximately 1.56 miles upstream of Old Mill Road	1.9	*	*	1,120	*
	Approximately 2.23 miles upstream of Old Mill Road	1.2	*	*	812	*
	At confluence with Juniper Swamp	1.7	*	*	1,050	*
West Bear Creek	At confluence with Bear Creek	22.6	880	2,150	3,220	5,360
	Downstream of tributary at Station 17,800	17.6	680	1,870	2,810	4,720
	Upstream of tributary at Station 17,800	14.1	660	1,680	2,430	4,210
	Downstream of tributary	10.7	450	1,260	2,060	3,650
	Upstream of tributary	7.4	255	980	1,530	2,950
	Downstream of SCS Dam No. 3	4.2	25	395	750	1,925
	Upstream of SCS Dam No. 3	4.2	500	1,000	1,300	2,260
	Upstream tributary at Station 35,000	1.9	310	640	840	1,490
	At U.S. Route 13	0.9	210	430	570	1,040
White Oak Swamp	Approximately 130 feet upstream of Old Mount Olive Highway	1.5	*	*	978	*
Yellow Marsh Branch	At confluence with Thoroughfare Swamp	6.3	630	1,250	1,610	2,780
	Downstream of tributary at Station 11,000	4.7	530	1,060	1,380	2,390
	At Durham Lake Road	3.5	450	900	1,180	2,070
	Upstream of tributary at Station 16,000	2.4	360	730	950	1,690
	At Railroad	1.3	250	530	690	1,250
	Approximately 0.15 mile upstream of Old Mount Olive Highway	0.5	*	*	472	*

*Data Not Available

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 05/06/2014

COUNTY : DIVISION : DISTRICT : STRUCTURE NUMBER : LENGTH :
WAYNE 4 3 950019 153 FEET

ROUTE CARRIED : FEATURE INTERSECTED :
US13 THOROUGHFARE SWP.

LOCATED : BRIDGE NAME : CITY :
0.5 MI.S. OF JCT.SR1218

FUNC. CLASS : SYST.ON : SYST.UNDER : ADT & YR : RAIL TYPE :
06 FA NFA 3900 2012 LT 41 RT 41

BUILT : BY : PROJ : FED.AID PROJ : DESIGN LOAD :
1992 DOH 8.1330901 BRF-104-(6) HS 20 + MOD

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 26 FT 16 FT

SUPERSTRUCTURE : PRESTRESSED CONCRETE CORED SLAB.

SUBSTRUCTURE : EBTS&IBTS:RC CAPS/PPC PILES

SPANS : 1@51'.5;1@50';1@51'.5

BEAMS OR GIRDERS : 16 PRESTRESSED CONCRETE CORED SLAB SECTIONS.

FLOOR : ENCROACHMENT : DECK (OUT TO OUT) :
PPCCS/2.5 AWS 48 FT

CLEAR ROADWAY : BETWEEN RAILS : SIDEWALK OR CURB :
45 FT 46.5 FT LT .75 FT RT .75 FT

VERT.CL.OVER :
999.9 FT

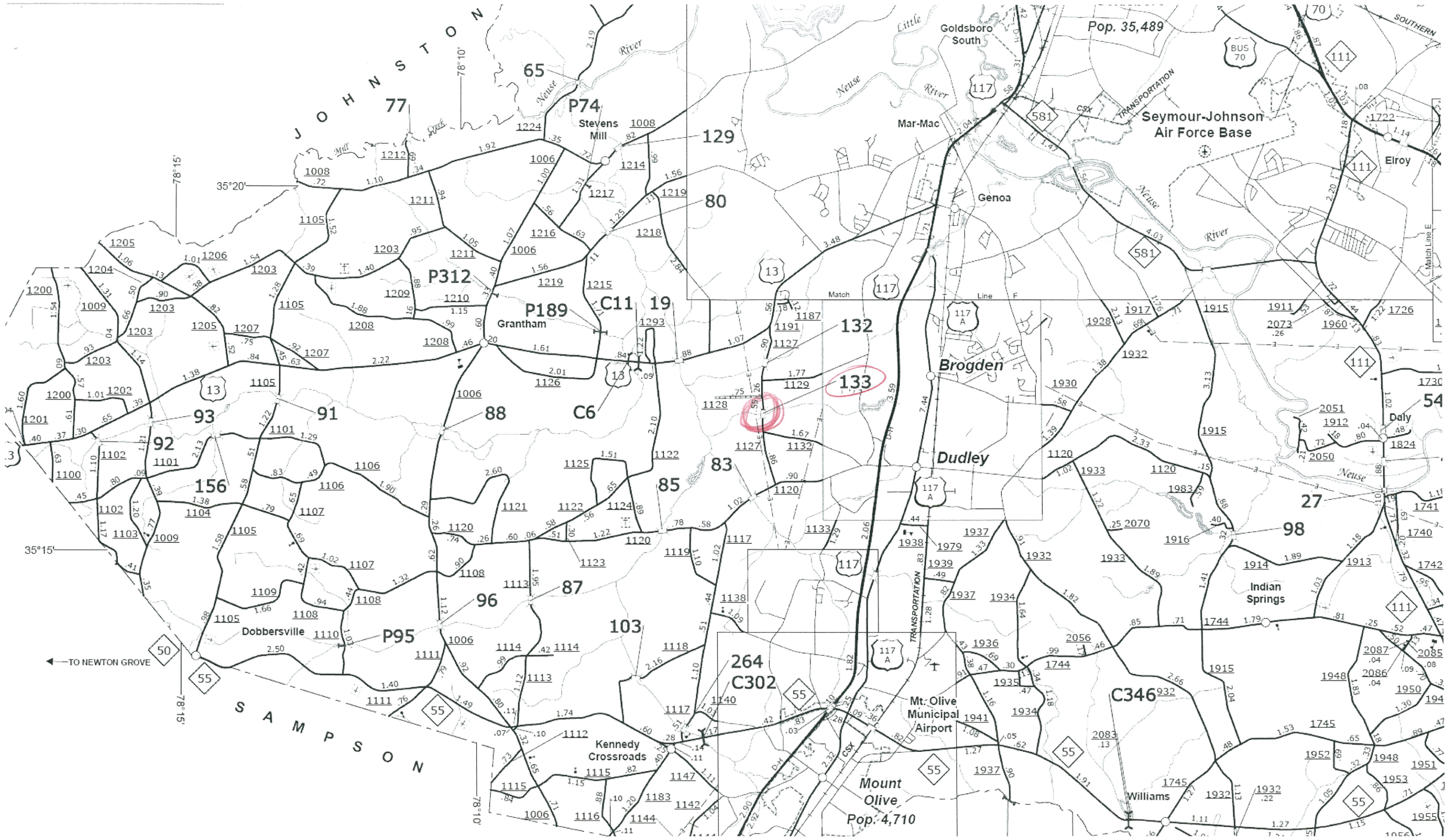
INV.RTG. : OPE.RTG. : CONTR.MEMBER : POSTED : TTST : DATE :
HS-26 HS-43 C. Slab LR SV 10/26/1992

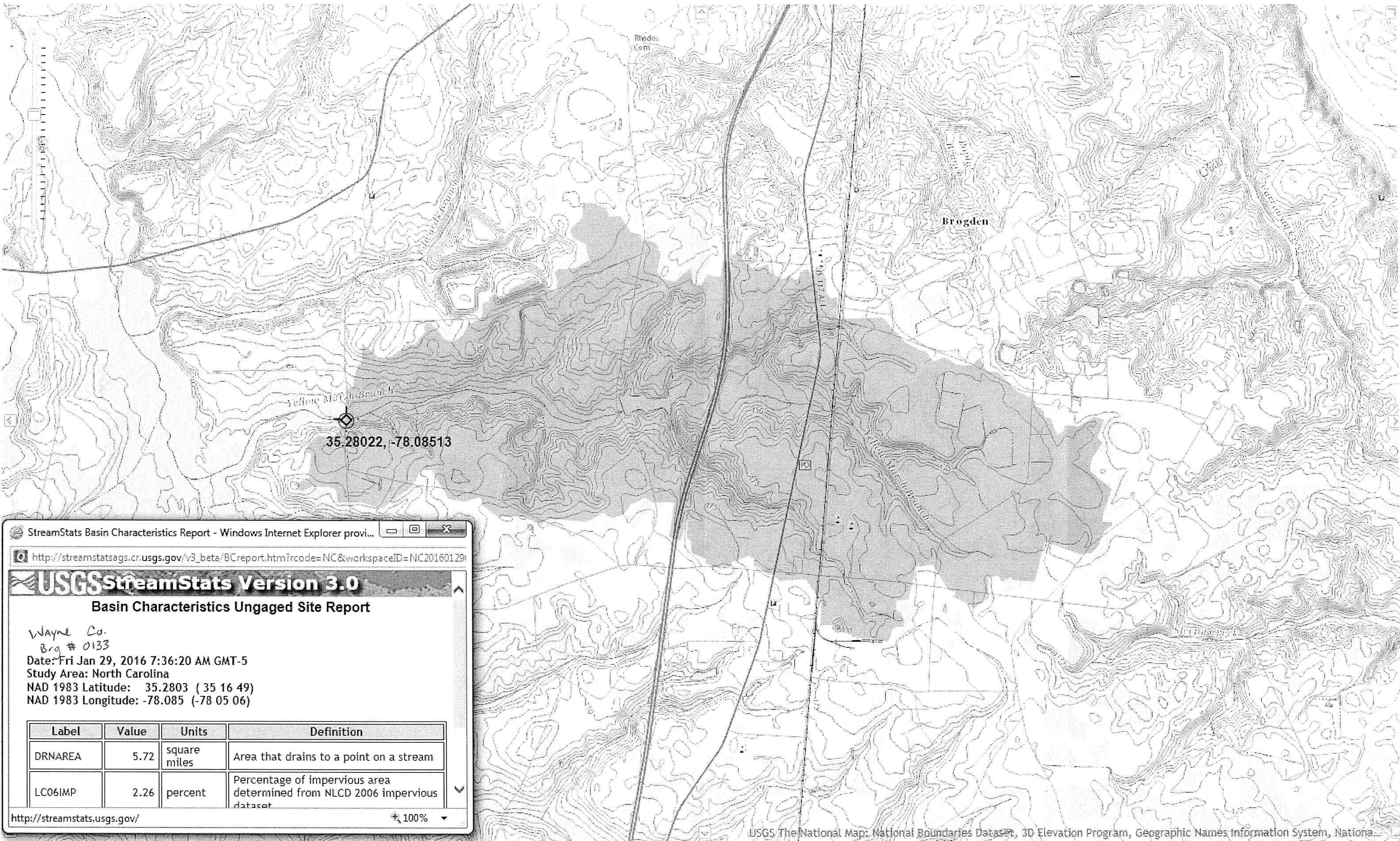
SYSTEM : GREEN LINE ROUTE :
Primary U.S. Route Y

UNDER ROUTES AND CLEARANCES

DOWNSTREAM STRUCTURE

REMARKS :





StreamStats Basin Characteristics Report - Windows Internet Explorer provi...

http://streamstats.usgs.gov/v3_beta/BCreport.htm?rcode=NC&workspaceID=NC20160129

USGS StreamStats Version 3.0

Basin Characteristics Ungaged Site Report

Wayne Co.
Brg # 0133
Date: Fri Jan 29, 2016 7:36:20 AM GMT-5
Study Area: North Carolina
NAD 1983 Latitude: 35.2803 (35 16 49)
NAD 1983 Longitude: -78.085 (-78 05 06)

Label	Value	Units	Definition
DRNAREA	5.72	square miles	Area that drains to a point on a stream
LC06IMP	2.26	percent	Percentage of impervious area determined from NLCD 2006 impervious dataset

http://streamstats.usgs.gov/ 100%



FRIS

Map Theme



Who Am I - General Public Effective

Flood Information

Click the map to view information.

Map Location

Flood Zone: AE (Floodway)

Flood Source: Yellow Marsh Branch

Base Flood Elevation: 109.1 ft

County: Wayne

Political Area: Wayne County

CID: 370254

Panel: 2575 Download

Map Number: 3720257500J

Panel Effective Date: 12/2/2005

Latitude: 35.28031

Longitude: -78.08492

Address locations are approximate.
619 Herring Rd. Dudley, NC

- Risk Information
- Financial Vulnerability
- FIS Reports
- Map Export
- Data Export

