TIP PROJECT: W-5601DG

CONTRACT: DC00124

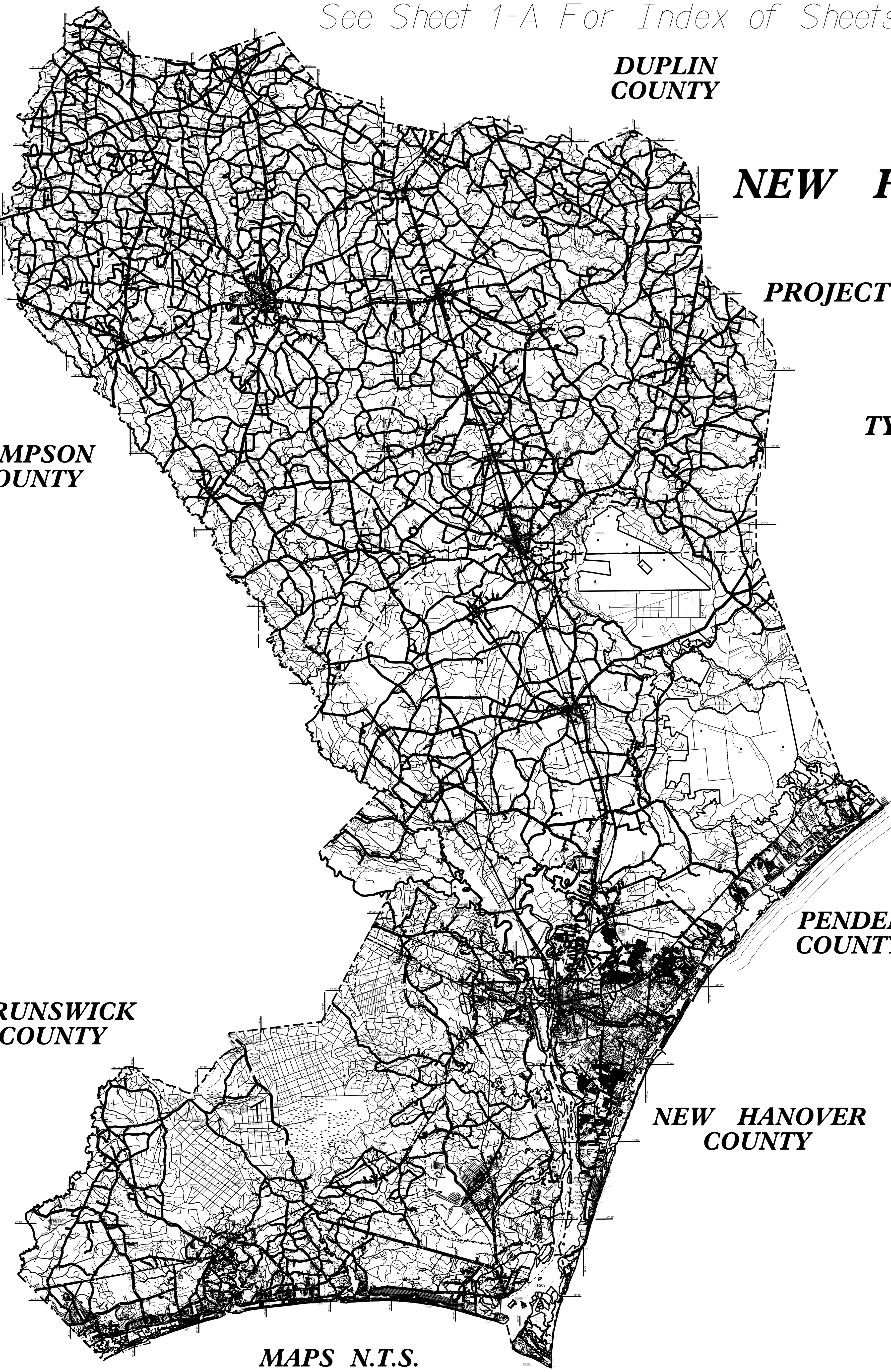
See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5601DG	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
50138.1.112	HSIP-0040(018)	P.E.
50138.3.112	HSIP-0040(018)	CONST.

SAMPSON, DUPLIN, PENDER, NEW HANOVER, AND BRUNSWICK COUNTIES



PROJECT DESCRIPTION: INSTALL NEW EMERGENCY CROSSOVERS, UPGRADE EXISTING EMERGENCY CROSSOVERS, CLOSE EXISTING EMERGENCY CROSSOVERS, AND UPGRADE GUARDRAIL END UNITS ON I-40, I-140, AND US 74/76 IN SAMPSON, DUPLIN, PENDER, NEW HANOVER, AND BRUNSWICK COUNTIES.

TYPE OF WORK: GRADING, PAVING BLOCKS, CABLE GUIDERAIL, CABLE GUIDERAIL ANCHOR UNITS, GUIDERAIL REMOVAL, GUARDRAIL, GUARDRAIL ANCHOR UNITS, GUARDRAIL REMOVAL, TRAFFIC CONTROL, AND EROSION CONTROL.

PROJECT LENGTH

MAP 1 I-40 = 0.008 MI.
MAP 2 I-40 = 0.008 MI.
MAP 3 I-40 = 0.008 MI.
MAP 4 I-40 = 0.008 MI.
MAP 5 I-40 = 0.010 MI.
MAP 6 I-40 = 0.008 MI.
MAP 7 I-40 = 0.010 MI.
MAP 8 I-40 = 0.008 MI.
MAP 9 I-40 = 0.010 MI.
MAP 10 I-40 = 0.010 MI.
MAP 11 I-40 = 0.008 MI.
MAP 12 I-40 = 0.008 MI.
MAP 13 I-40 = 0.010 MI.
MAP 14 I-40 = 0.008 MI.
MAP 15 I-40 = 0.008 MI.
MAP 16 I-40 = 0.008 MI.
MAP 17 I-40 = 0.010 MI.
MAP 18 I-40 = 0.008 MI.
MAP 19 I-40 = 0.010 MI.
MAP 20 I-40 = 0.010 MI.
MAP 21 I-40 = 0.008 MI.
MAP 22 I-40 = 0.010 MI.
MAP 23 I-40 = 0.008 MI.
MAP 24 I-140 = 0.010 MI.
MAP 25 I-140 = 0.008 MI.
MAP 26 US 74/76 = 0.005 MI.
MAP 27 US 74/76 = 0.005 MI.
MAP 28 US 74/76 = 0.010 MI.
MAP 29 US 74/76 = 0.005 MI.
MAP 30 US 74/76 = 0.005 MI.
MAP 31 US 74/76 = 0.005 MI.
MAP 32 US 74/76 = 0.005 MI.
MAP 33 EBL I-40 = 0.057 MI.
MAP 34 WBL I-40 = 0.071 MI.
MAP 35 EBL I-40 = 0.099 MI.
MAP 36 WBL I-40 = 0.128 MI.
MAP 37 WBL I-40 = 0.014 MI.
MAP 38 EBL US 74/76 = 0.071 MI.
MAP 39 WBL US 74/76 = 0.071 MI.

TOTAL = 0.771 MILES

Prepared In the Office of:

DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

LETTING DATE:

JANUARY 21, 2016

DAVID LEONARD, PE
PROJECT ENGINEER

CARLA SCHOONMAKER
PROJECT DESIGN TECHNICIAN

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROJECT REFERENCE NO.	SHEET NO.
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GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 10-31-2014

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE

CONTACTS FOR SAMPSON COUNTY:

DUKE ENERGY-JACQUELINE COLEY-919.661.4335
SOUTH RIVER EMC-SCOTT BYRD-910.892.8071
CHARTER CABLE-NICK BROWN-910.376.1785
TIME WARNER CABLE-ROBERT JOHN-910.619.0192
AT&T-CHRIS BENTZ-910.619.5500
STAR TELEPHONE-KENNETH MELVIN-910.564.7832
CENTURY LINK TELEPHONE-ANTHONY MELILI-910.577.9359
SAMPSON COUNTY WATER-MARK TURLINGTON-910.538.2628

CONTACTS FOR DUPLIN COUNTY:

FOUR COUNTY EMC- JOE DAIL- 910.259.1813
DUKE ENERGY-JACQUELINE COLEY-919.661.4335
SOUTH RIVER EMC-SCOTT BYRD-910.892.8071
CHARTER CABLE-NICK BROWN-910.376.1785
TIME WARNER CABLE-ROBERT JOHN-910.619.0192
AT&T-CHRIS BENTZ-910.619.5500
STAR TELEPHONE-KENNETH MELVIN-910.564.7832
CENTURY LINK TELEPHONE-ANTHONY MELILI-910.577.9359
DUPLIN WATER-DENNIS-910.296.2123

CONTACTS FOR PENDER COUNTY :

FOUR COUNTY EMC- JOE DAIL- 910.259.1813
DUKE ENERGY-JACQUELINE COLEY-919.661.4335
CHARTER CABLE-NICK BROWN-910.376.1785
TIME WARNER CABLE-ROBERT JOHN-910.619.0192
AT&T-CHRIS BENTZ-910.619.5500
PENDER WATER-BOB FOREHAND-910.604.1482

CONTACTS FOR NEW HANOVER COUNTY:

DUKE ENERGY-JACQUELINE COLEY-919.661.4335
CHARTER CABLE-NICK BROWN-910.376.1785
TIME WARNER CABLE-ROBERT JOHN-910.619.0192
AT&T-CHRIS BENTZ-910.619.5500
CFPUA-JIM TAYSON-910.332.6738

CONTACTS FOR BRUSNWICK COUNTY:

BRUNSWICK ELEC. MEMBERSHIP- LEWIS SHAW-910.755.4262
DUKE POWER-JACQUELINE COLEY-919.661.4335
ATMC-BROCK HOMES-910.754.4311
H2GO-RUSS LANE-910.371.9949-EXT.-111
BRUNSWICK WATER-JERRY PIERCE-910.253.2860

INDEX OF SHEETS

EFF. 01-17-2012
REV. 10-30-2012

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.01	Guide for Grading Subgrade - Interstate and Freeway
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
862.01	Guardrail Placement
862.02	Guardrail Installation
865.01	Cable Guiderail
DIVISION 9 - SIGNING	
903.10	Ground Mounted Sign Supports
903.20	Wood Sign Support
904.10	Orientation of Ground Mounted Sign Supports
904.50	Mounting of Type "D", "E", and "F" Signs on "U" Channel Posts
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Work Zone Advance Warning Signs
1101.02	Temporary Lane Closures
1101.04	Temporary Shoulder Closures
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs
1110.02	Portable Work Zone Signs
1115.01	Flashing Arrow Boards
1130.01	Drum
1135.01	Cones
1150.01	Flagging Devices
1165.01	Work Vehicle Lighting Systems And Tma Delineation
DIVISION 12 - PAVEMENT MARKINGS, MARKERS, AND DELINEATION	
1261.02	Guardrail & Barrier Delineators

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12/05/11

Note: Not to Scale

**S.U.E. = Subsurface Utility Engineering*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — R/W
- Proposed Right of Way Line with Iron Pin and Cap Marker — R/W
- Proposed Right of Way Line with Concrete or Granite R/W Marker — R/W
- Proposed Control of Access Line with Concrete C/A Marker — C/A
- Existing Control of Access — C/A
- Proposed Control of Access — C/A
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

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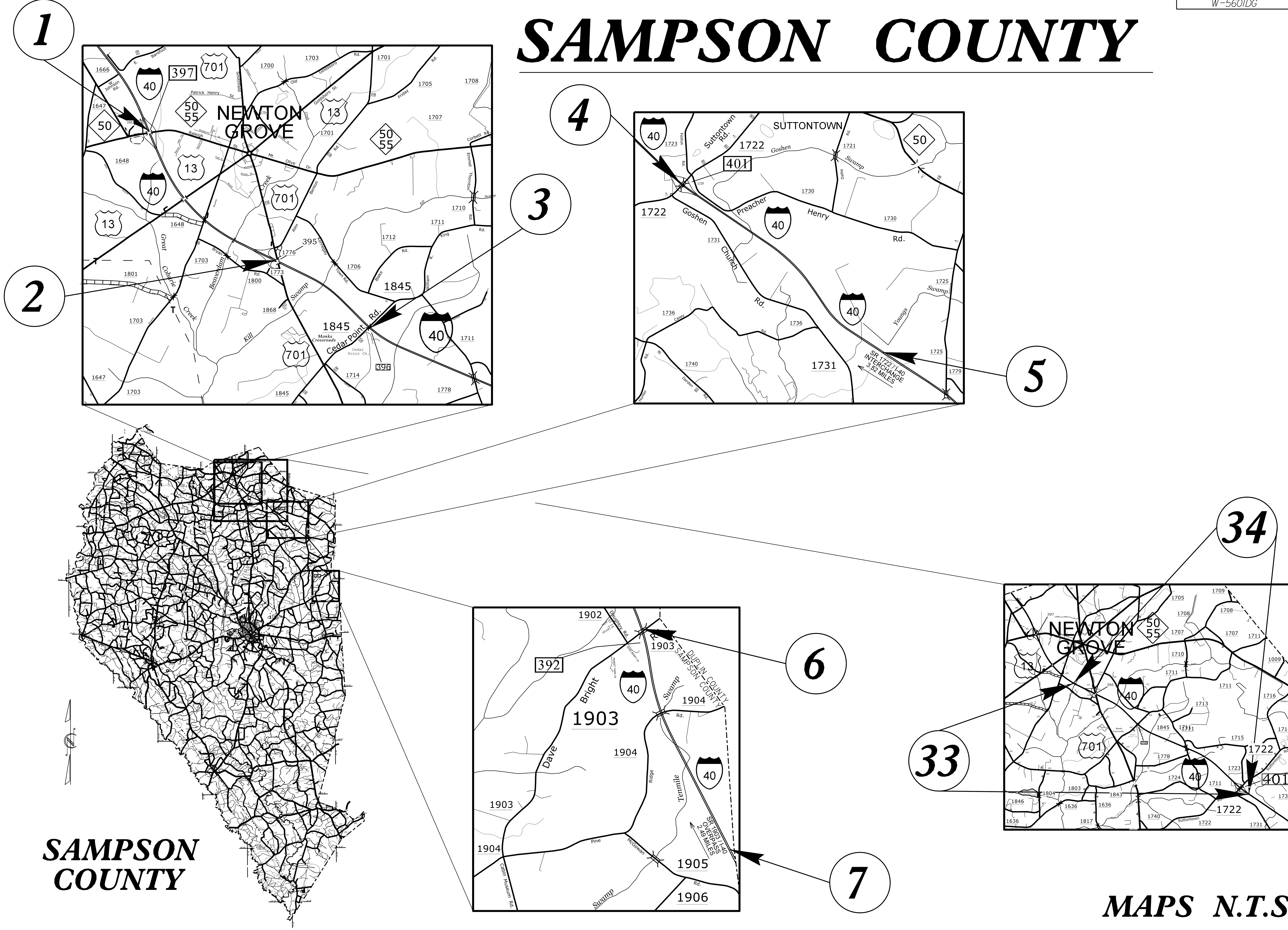
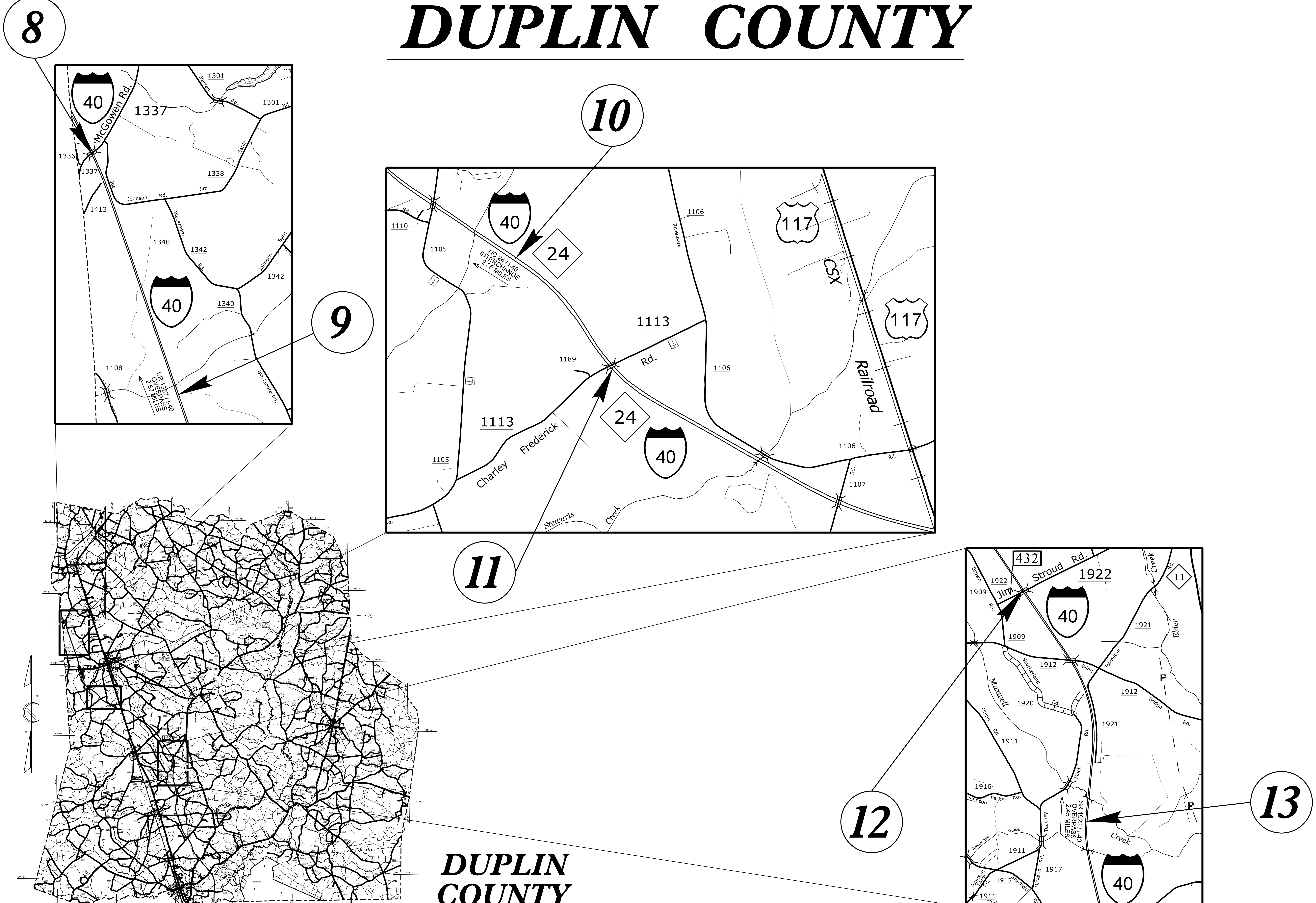
SAMPSON COUNTY



MAPS N.T.S.

PROJECT REFERENCE NO.	SHEET NO.
W-5601DG	IC-2

DUPLIN COUNTY



MAPS N.T.S.