

PROJECT DATA SHEET

Carolina Bays Parkway Extension

Date: 8-24-17
Rev.:

NCDOT Project No.: 44604 SCDOT Project No.: P029554	Counties: Brunswick (NC); Horry (SC)
Federal-aid No.:	NCDOT WBS No.: 44604
NCDOT Division: 3 SCDOT District: 5	Internal Scoping Meeting Date: 12-14-16 External Scoping Meeting Date: 9-13-17

Project Description:

- **Length:** Approximately 19 miles (NC Section 14 miles, SC Section 5 miles)
- **Termini:** SC 31/SC 9 interchange in Horry County, SC to US 17 Shallotte Bypass in Brunswick County, NC
- **MPO / RPO:** Cape Fear RPO, GSATS MPO and Waccamaw Regional COG
- **NEPA / 404 Merger Candidate?** Yes No Unknown
- **General Description of Project:**

NCDOT Project 44604 / SCDOT Project P029554 is the Proposed Extension of the Carolina Bays Parkway (SC 31) from SC 9 in Horry County, SC to US 17 Shallotte Bypass in Brunswick County, NC. The proposed project involves the construction of a multilane, full control of access freeway, part on new location.

The project is not currently included in the approved NCDOT 2018-2027 STIP. The project is included in the SCDOT 2017-2022 STIP. The GSATS MPO 2015-2022 TIP includes the SC portion of the Carolina Bays Parkway Northern Extension as the No. 1 priority project.

Design Data (Existing Conditions):

South Carolina (see attached Vicinity Map)

SC 31 (Carolina Bays Parkway – south of SC 9)

- Functional Classification: Freeway
- Strategic Highway Corridor: Tier 3 Strategic Corridor, NHS Principal Arterial
- Type of Access Control: Full
- Typical Section: Six-lane median divided
- Right of Way: 280 feet
- Posted Speed: 65 mph

SC 9 and US 17

- Functional Classification: Principal Arterial
- Strategic Highway Corridor: US 17 is part of the federal Strategic Highway Network (STRAHNET) and a Statewide Strategic Corridor; SC 9 and US 17 are designated Evacuation Routes
- Type of Access Control: None
- Typical Section: Both four-lane median divided and five-lane with two-way-center-turn lane
- Right of Way: Varies
- Posted Speed: US 17 – 45 mph (south of Little River), 40 mph (Little River), 55 mph (north of Little River); SC 9 – 60 mph (west of S-57), 45 mph (around S-57), 40 mph (around US 17)

S-57 (Wampee Road), S-111 (Brooksville Road/Little River Road), and S-50 (Mineola Avenue)

- Functional Classification: Major Collector
- Strategic Highway Corridor: N/A
- Type of Access Control: None
- Typical Section: Two lanes
- Right of Way:
- Posted Speed: S-57, S-111 (s./n. of S-57) and S-50 – 45/55 mph

S-1233 (Wortham's Cut Off Road)

- Functional Classification: Other State Maintained Road
- Strategic Highway Corridor: N/A
- Type of Access Control: None
- Typical Section: Two lanes
- Right of Way:
- Posted Speed: 55 mph

North Carolina (see attached Vicinity Map)

US 17

- Functional Classification: Other Principal Arterial
- Strategic Transportation Corridor: NC Strategic Transportation Corridor, federal STRAHNET, and Evacuation Route
- CTP Designation (Facility Type): Expressway (needs improvement)
- Type of Access Control: Partial control from SC State line to just north of SR 1302, no control from north of SR 1302 to US 17 Business (at western end of US 17 Shallotte Bypass), full control from US 17 Business to east of NC 130 interchange.
- Typical Section: Four-lane median divided
- Right of Way:
- Posted Speed: 55 mph

NC 130 (Whiteville Road) (north of US 17 Bypass)

- Functional Classification: Minor Arterial
- Strategic Transportation Corridor: No
- CTP Designation (Facility Type): Other Major Thoroughfare (needs improvement)
- Type of Access Control: None
- Typical Section: Three-lane with two-way center turn lane
- Right of Way:
- Posted Speed: 45 mph

NC 904 (Longwood Road/Seaside Road), SR 1303 (Hickman Road), SR 1184 (Ocean Isle Beach Road), US 17 Business (Main Street), and NC 130 (Whiteville Road) (south of US 17 Shallotte Bypass)

- Functional Classification: Major Collector
- Strategic Transportation Corridor: No
- CTP Designation (Facility Type): Other Major Thoroughfare (needs improvement)
- Type of Access Control: None
- Typical Section: NC 130 (south of US 17 Bypass) – Three-lane with two-way center turn lane; Others – Two lanes
- Right of Way:
- Posted Speed: NC 904, SR 1303 and SR 1184 – 55 mph; US 17 Business and NC 130 (south of US 17 Bypass) – 45 mph

SR 1300 (Ash-Little River Road) and SR 1300 (Calabash Road)

- Functional Classification: Minor Collector
- Strategic Transportation Corridor: No
- CTP Designation (Facility Type): Minor Thoroughfare (needs improvement)
- Type of Access Control: None
- Typical Section: Two lanes
- Right of Way:
- Posted Speed: 55 mph

SR 1301 (McLamb Road), SR 1304 (Pea Landing Road), SR 1165 (Thomasboro Road), SR 1305 (No. 5 School Road), SR 1316 (Old Shallotte Road), SR 1315 (Russtown Road NW) and SR 1306 (Gwynn Road NW); SR 1307 (Bland Road, unpaved)

- Functional Classification: Local Road
- Strategic Transportation Corridor: No
- CTP Designation (Facility Type): N/A
- Type of Access Control: None
- Typical Section: Two lanes
- Right of Way:
- Posted Speed: 55 mph (and unposted)

Structure Inventory (Bridges, RCBC, Walls, etc.)

Review of NCDOT and SCDOT bridge inventory mapping, as well as a study area site visit, indicates bridges and culverts on the following roads within the project study area:

South Carolina

- SC 31 ramp (Carolina Bays Parkway) over SC 9
- US 17 ramp over SC 9
- S-1233 (Wortham's Cut Off Road) over Bellamy Branch

North Carolina

- SR 1301 (McLamb Road) over Hickmans Branch
- SR 1300 (Ash-Little River Road) over Cawcaw Swamp
- SR 1305 (No. 5 School Road) over Cawcaw Swamp
- US 17 over Shingletree Swamp
- NC 904 (Longwood Road) over Cawcaw Swamp
- SR 1303 (Hickman Road) over Shingletree Swamp
- NC 130 (Whiteville Road) over US 17 Shallotte Bypass
- US 17 Shallotte Bypass over Lookout Branch
- SR 1349 (Bridgers Road) over Mulberry Branch

Other STIP Projects in the Area

SC: There are no new location or widening projects in SCDOT's 2017–2022 STIP in the project study area. Operational and safety projects are planned along S-57 (Wampee Road), S-111 (Brooksville Road/Little River Road), and SC-9 within the project study area. Pavement rehabilitation and resurfacing projects are also planned for several roads, including SC-9 and SC-179.

NC: NCDOT's 2018-2027 STIP includes the following projects within or in the vicinity of the project study area:

- R-3432 – SR 1163 (Georgetown Road) from SR 1184 (Ocean Isle Beach Road) to NC 179. Construct two lanes on new location. Under construction.
- U-5862 – US 17 Shallotte Bypass at SR 1357 (Smith Avenue). Upgrade intersection to interchange. Right-of-way – FY 2020; Construction – FY 2021.
- B-4440 – SR 1349 (Bridger Road). Replace Bridge No. 090163 over Mulberry Branch. Under construction.
- U-5788 – US 17 Business (Main Street) at Wall Street/Shallotte Avenue. Realign intersection. Right-of-way – FY 2018; Construction – FY 2020.
- R-5851 – US 17 at NC 904. Convert intersection to superstreet. Right-of-way and Utilities – FY 2023, Construction – FY 2025.
- R-5857 – US 17 at US 17 Business. Convert intersection to superstreet. Right-of-way and Utilities – FY 2024, Construction – FY 2026.

Railroad Involvement

None

Long Range Plan History

- Waccamaw Regional Council of Governments, 2040 Long Range Transportation Plan (2016)
- South Carolina 2040 Multimodal Transportation Plan (December 2014)
- GSATS 2035 Long-Range Transportation Plan Update – Draft Final Report (July 2011)
- Transportation Element, Envision 2025, Horry County Comprehensive Plan Update (April 2011)
- 2010 Brunswick County Comprehensive Transportation Plan
- N.C. Long-Range Multimodal Statewide Transportation Plan (September 2004)
- 2001 Brunswick County Thoroughfare Plan

Other Plans and Maps

South Carolina

- Horry County Ride III Referendum (2016)
- GSATS TIP, Fiscal Year 2016 (TIP Period: October 1, 2015–September 30, 2022)
- South Carolina Strategic Corridors Plan (November 2014)
- Comprehensive Economic Development Strategy, Waccamaw Regional Economic Development District 2012-2017 (November 2012)
- Horry County Parks and Open Space Plan (June 2010, July 2017 Draft)
- Envision 2025 – Horry County, South Carolina Comprehensive Plan (April 2008)
- Economic Development Strategic Plan for Horry County, SC (2008)
- Horry County Highway 57 and Highway 9 Area Plan (2003)

North Carolina

- Brunswick County Zoning Map (6/6/2016)
- North Carolina Strategic Transportation Corridor Policy (March 2015)
- Cape Fear Region NC Tomorrow Plan (Final Draft October 2012)
- FOCUS Cape Fear A Regional Framework for our Future (April 2015)
- Carolina Shores Comprehensive Plan (June 2017)
- Brunswick County 2009 Comprehensive Parks and Recreation Master Plan
- Brunswick County CAMA Core Land Use Plan (2007, Recertified 2012)
- Brunswick Tomorrow (February 2004) and Brunswick Vision (2017)

Initial Scoping Comments

Traffic Data (AADT)

		US 17	SC 9	S-57	SR 1303	NC 904	CBP Ext.
Current Year	2004 ¹	16,400 – 44,900	17,400	7,500	3,600 – 4,000		
	2013/2015 ²	12,200 – 37,400 in SC 14,000 – 25,000 in NC	22,100 – 23,700	5,100 – 8,400	5,700	3,700 – 11,000	
Design Year	2030 ¹	43,000 – 96,500	30,700	18,000	8,800 – 9,800		
	2035 ^{3, 4}	31,600-48,500				12,900	37,258 – 37,407
Source of Traffic Data	¹ Carolina Bays Parkway Extension Feasibility Study, July 2006 (existing network with I-74 completion). ² NCDOT 2013 AADT/SCDOT 2015 AADT ³ GSATS 2035 LRTP / ⁴ Brunswick County CTP						

Cost Estimates (millions)

	Construction	Right-of-Way	Utilities	Total
Carolina Bays Parkway Extension Feasibility Study, July 2006	\$169.5 to \$261.8	\$37.1 to \$71.3	\$0.4 to \$1.5	\$207.3 to \$314.9
Current Cost Estimate	North Carolina ¹		\$249.8 ²	\$434.8
	South Carolina		\$185 ³	

¹SC State line to US 17 near NC 904

²GSATS 2035 Long-Range Transportation Plan at \$158 million.

³GSATS Amended FY 2016 Transportation Improvement Program.

Current Project Schedule

Environmental Documents	DEIS	April 2021
	FEIS	December 2022
	ROD	January 2023
Public Involvement / Meetings	2017 (Purpose & Need) 2019 (Alternatives) 2021 (Corridor PH)	
Right-of-Way	Not yet programmed	
Construction	Not yet programmed	

Preliminary Purpose and Need

Draft Project Need

From *Carolina Bays Parkway Extension Feasibility Study*:

The CBP Extension project is needed to improve motorists' mobility and manage existing and future traffic congestion projected along US 17 and other roadways such as S-57 / SR 1303 (Hickman Road) within Horry and Brunswick Counties. The population and development within the region of these two counties has steadily increased along with the number of tourists to the area each year.

The rapid growth already experienced in the area has begun placing pressure on the existing road network. This increased demand can be seen in traffic counts and transportation modeling to determine the existing and future average daily traffic totals for the study area's road network.

The millions of tourists and visitors who frequent those marketplaces are the mechanism supporting the economic vitality of both states' coastal counties. The health and livelihood of these economies are crucial to the local counties and contribute to the economic prosperity of both North Carolina and South Carolina as a whole.

Draft Project Purpose

From *Carolina Bays Parkway Extension Feasibility Study*:

The purpose of this project is to improve mobility and safety for traffic currently using the US 17 corridor in the Little River and Grand Strand areas. This project is also intended to provide a more direct route for tourist and coastal truck traffic to move through the area and along Grand Strand and coastal areas.

Preliminary Alternatives Data

Design Data (Proposed Conditions)

Carolina Bays Parkway Extension

- CTP Designation (Facility Type): Freeway
- Type of Access Control: Full
- Typical Section: Four lane median divided
- Right of Way:
- Posted Speed: 65 mph

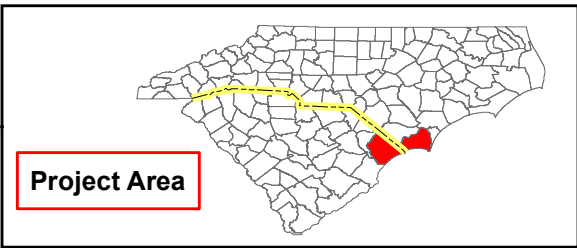
Alternatives to be Evaluated

- No-Build Alternative
- Improve Existing Facilities
- Construct Facility on New Location

Study Area Resources Inventory Table

Resource/Measure	Status / Comments Carolina Bays Parkway Extension Study Area	Source
Potential for Interchanges or RR Crossings	Interchange(s) are likely at the project termini and possible at major crossroads.	Project site visit and mapping
Other Infrastructure (wastewater treatment plants, transmission pipelines, etc.)	<ul style="list-style-type: none"> • Two power substations along south side of S-57/ Hickman Road (one each in NC/SC) • High voltage power lines along much of northern Hickman Road/US 17 in study area • Water tower in SE quadrant of S-57/S-111 intersection • Public water lines along most study area roads 	Project site visit
Suspected/Known Hazardous Material Sites	<ul style="list-style-type: none"> • 1 active and 3 inactive RCRA HW sites in NC • 6 active and 4 inactive RCRA HW sites in SC 	NCDEQ, USEPA
National Register or Eligible Sites, Districts, or Other Historic Properties	<ul style="list-style-type: none"> • None in NC • Two eligible sites (both referred to as James W. Ellis House) located just southeast of the US 17/ Mineola Ave intersection in SC 	NCHPO, SCHPO
Community Facilities (such as hospitals, nursing homes, churches, schools, cemeteries, etc.)	<ul style="list-style-type: none"> • Numerous churches and cemeteries and four public schools are located within project area • McLeod Seacoast Hospital is located along SC 9 just west of the SC 9/US 17 interchange • Hickman's Crossroads Library near corner of Hickman Road and Calabash Road • Little River Library on S-57 near SC 9 • Horry County Recycling and Solid Waste Convenience Center on S-111 near S-57 • Horry County Police Station on S-57 near SC 9 • Horry Co. Fire & Rescue Dept. on S-57 near SC 9 • Grissettown-Longwood Fire Department on NC 904 north of US 17 • VFW Post 10804 on S-57 near SC 9 • Rest area / Brunswick Co. Visitor Center in SW quadrant of US 17 Shallotte Bypass / NC 130 interchange • Brunswick Co. Regional EMS Station in SE quadrant of US 17 Shallotte Bypass/US 17 Business intersection • Numerous golf courses within project study area 	Project site visit. US Census Bureau, NC OneMap, SCORS, SCEMD
Potentially Affected Residential Properties	It is probable the project will involve residential relocations.	Project site visit and mapping
Potentially Affected Business Properties	It is probable the project will involve business relocations.	Project site visit and mapping
Wetlands	11,068 acres	NC-CREWS, NWI
Streams	17 named streams, 35+ unnamed tributaries; 496,259 linear feet	NCDEQ, SCDNR

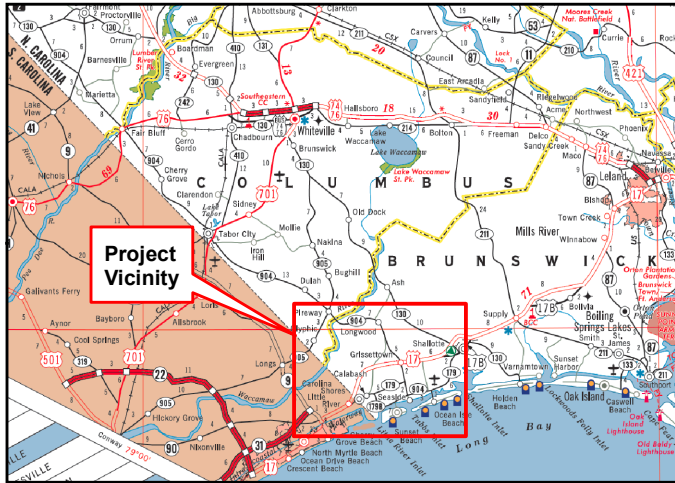
Resource/Measure	Status / Comments Carolina Bays Parkway Extension Study Area	Source
Other Surface Water	175 acres	NCDEQ, SCDNR
303(d) Waters	None in study area	NCDEQ, SCDHEC
HQW / ORW	Shalotte River and Lookout Branch near northeastern project terminus in NC are classified as HQW	NCDEQ, SCDHEC
Critical Water Supply Watersheds	<ul style="list-style-type: none"> • None in NC • No Surface Water Protection Areas in SC 	NCDEQ, SCDHEC
Public Water Supply Wells	<ul style="list-style-type: none"> • Three Ground Water Transient Non-Community Wells(NC) • Several Public Water Supply Wells and corresponding PWSW Projection Zones in SC 	NCDEQ, SCDHEC
Floodplains	<ul style="list-style-type: none"> • 5,253 acres of 100-year floodplain in NC • FEMA is updating flood zone maps for Horry County 	FEMA
Riparian Buffer Rules	No Riparian Buffer Rules: NC – Lumber River Basin, SC – Pee Dee River Basin	NCDEQ, SCDHEC
Area in Active Agriculture	Areas of active agriculture in study area including along S-111 north of S-57, Wortham’s Cut Off Road, Ash Little River Road north of Hickman Road, Bland Road, NC 904 north of US 17, US 17 east of NC 904, and either side of Old Shallotte Road to the west of McMilly Road.	Project site visit, Google Maps
Parks, Greenways, Game Lands, and Land and Water Conservation Fund Properties	<ul style="list-style-type: none"> • No LWCF properties • NC: Shallotte Township Park is located near the project’s eastern terminus. Waccamaw River Wetlands Megasite and Ducks Unlimited Easements in the northwest portion of the study area, the Gause Savanna Natural Heritage area on north side of US 17 just east of Pea Landing Road, and North American Land Trust Easement property on south side of US 17, between Thomasboro Road and Seaside Road. • SC: Waccamaw River Heritage Preserve north and west of Wortham’s Cut Off Road, Vereen Memorial Gardens south of US 17 near NC border. 	NCNHP, NPS, NC OneMap, US Census Bureau
Identified Critical Habitat/ Species under ESA	<ul style="list-style-type: none"> • Natural Heritage Element Occurrences in study area with “Current” status • No identified Critical Habitat in study area • Designated Shellfish Harvesting Areas and Primary Nursery Areas in NC are located along coastal waterways south of the project study area. 	USFWS, NCNHP
FEMA Buyout Properties	Unknown	
Other Known/Suspected Resources or Issues (e.g., low-income or minority communities, etc.)	Low Income, Minority and 65 and Older populations exceed regional percentages in some areas.	GSATS Title VI – EJ Plan 2015



Carolina Bays

Parkway Extension

North Carolina + South Carolina



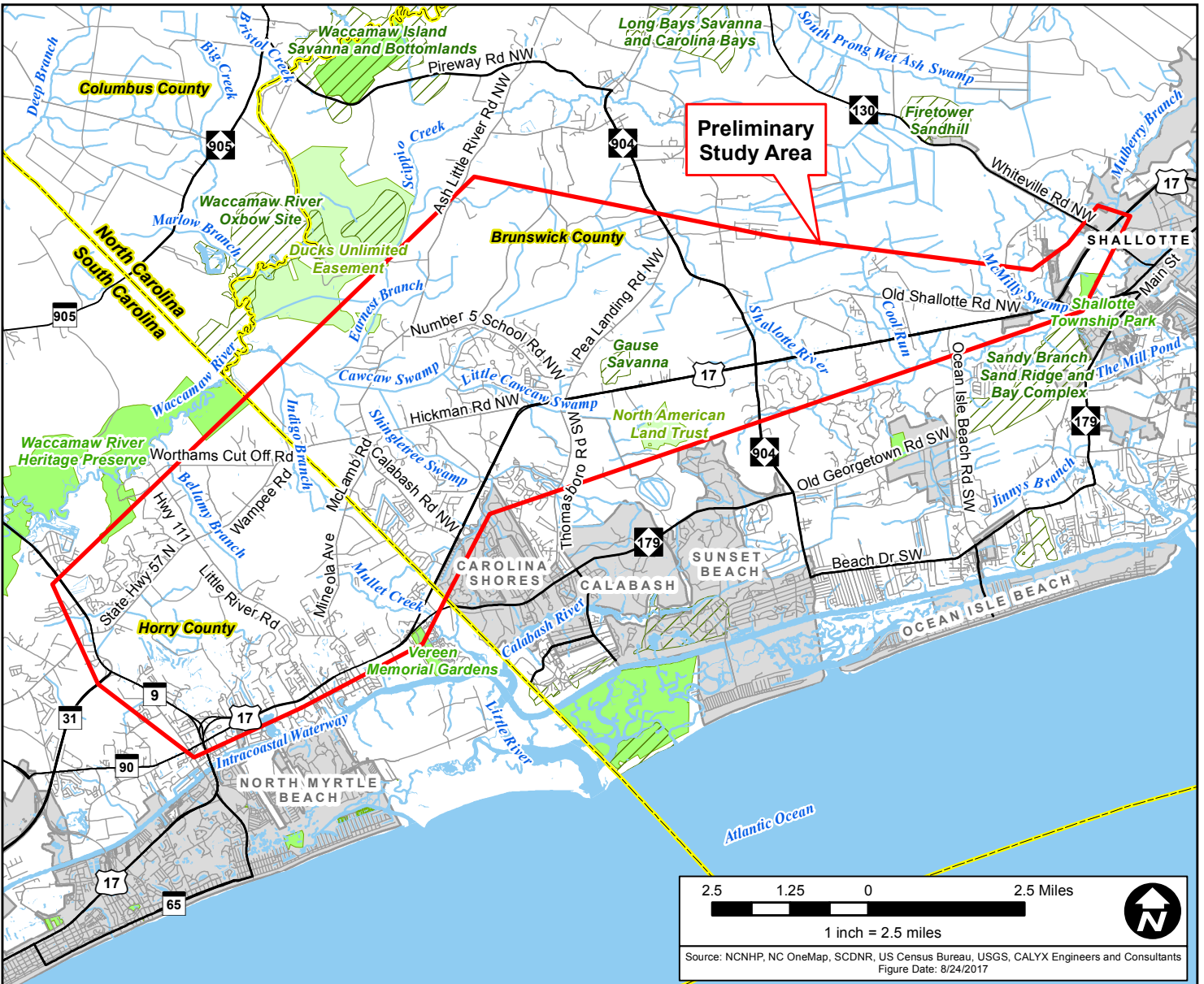
NCDOT Project No. 44604
Brunswick County



SCDOT Project No. P029554
Horry County



Vicinity Map





Preliminary Study Area

Carolina Bays
 Parkway Extension
 North Carolina - South Carolina

NCDOT Project No. 44604
 Brunswick County

SCDOT Project No. P029554
 Horry County



2.5 1.25 0 2.5 Miles

1 inch = 2.5 miles

Source: ESRI, USGS, CALYX Engineers and Consultants
 Figure Date: 5/11/2017

Topography Map



Study Area

- Preliminary Study Area
- County Boundary
- River/Stream



NCDOT Project No. 44604
Brunswick County

SCDOT Project No. P029554
Horry County

