



Beaufort County 1% Sales Tax Road Improvement Program

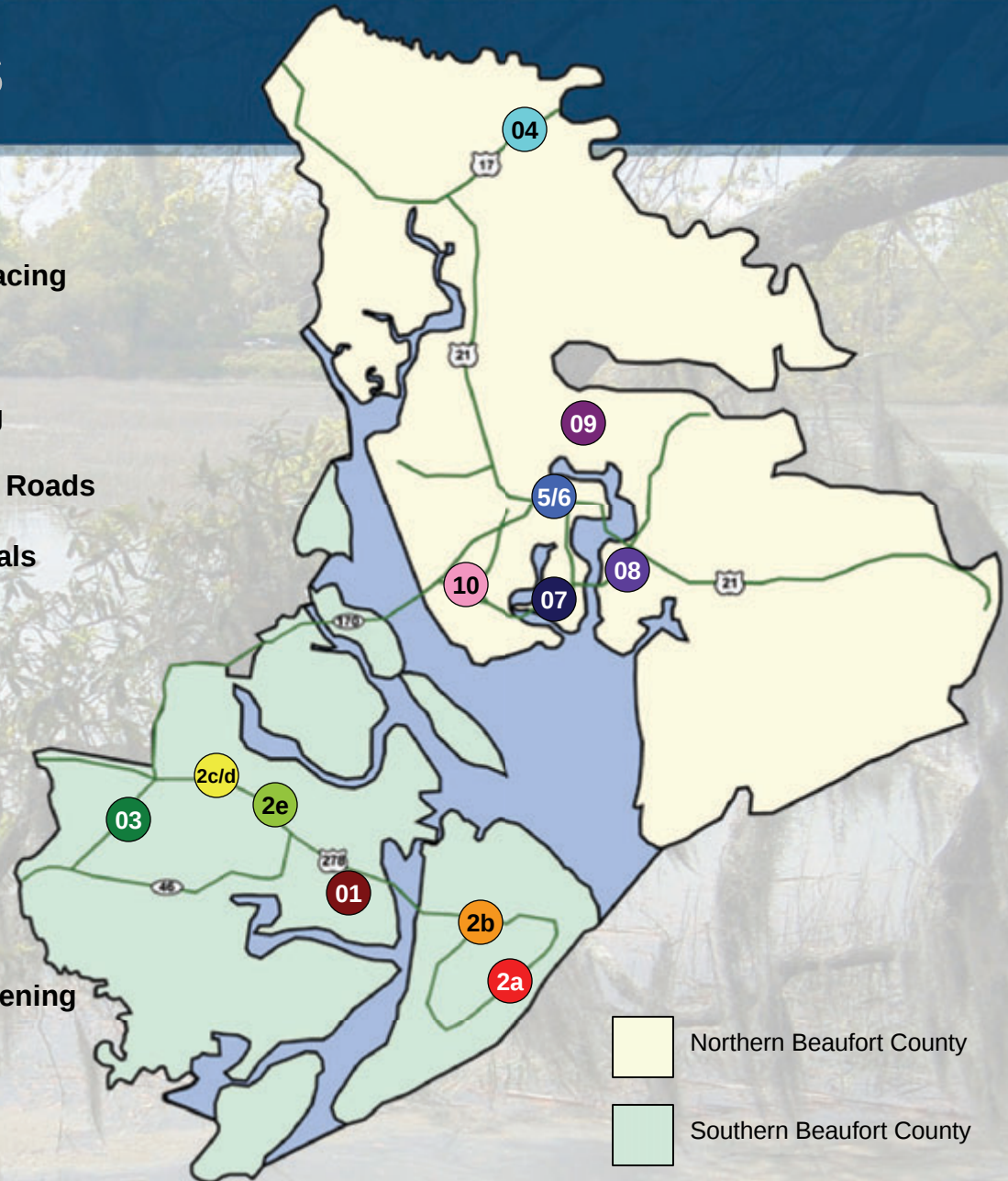
Monday, January 26, 2008

Presented by:

DENNIS
CORPORATION

Project Locations

- 01 – Bluffton Parkway
- 2a – US 278 (William Hilton Pkwy.) Resurfacing
- 2b – US 278 Intersection Realignment
- 2c – US 278 (Fording Island Rd.) Widening
- 2d – US 278 (Fording Island Rd.) Frontage Roads
- 2e – US 278 Street Lighting at Traffic Signals
- 03 – SC 170 (Okatie Hwy.) Widening
- 04 – US 17 (Charleston Hwy.) Widening
- 05 – US 21 (Boundary St.) Improvements
- 06 – US 21 (Boundary St.) Parallel Road
- 07 – SC 802 (Ribaut Rd.) Intersection Improvements
- 08 – SC 802/ US 21 (Lady's Island Dr.) Widening
- 09 – Northern Beaufort Bypass
- 10 – SC 802 (Savannah Hwy.) Widening



Actual vs. Forecasted Sales Tax Revenue

Fiscal Year	Date Received	Forecasted Receipts	Actual Receipts (Including Interest)
2008, 1st Quarter	9/30/2007	\$6,333,333	\$7,838,127
2008, 2nd Quarter	12/31/2007	\$6,333,333	\$7,275,319
2008, 3rd Quarter	3/31/2008	\$6,333,333	\$7,549,882
2008, 4th Quarter	6/30/2008	\$6,333,333	\$7,783,702
2009, 1st Quarter	9/30/2008	\$6,333,333	\$9,776,468
		\$31,666,665	\$40,223,498

Project Cost Summary

		Original Budget (2006)	Expenditures to Date	County Obligations
01	Bluffton Parkway - Phases 5A & 5B	\$60,000,000	\$2,634,544	\$8,826,467
2a	US 278 (William Hilton Pkwy.) Resurfacing - Gum Tree Road to Sea Pines Circle	\$4,700,000	\$0	\$3,033,522
2b	US 278 Intersection Realignment - Squire Pope Road	\$2,400,000	\$1,261,924	\$1,138,076
2c	US 278 (Fording Island Road) Widening - SC 170 (Okatie Hwy.) to Simmonsville Rd.	\$39,630,000	\$400,059	\$2,800,416
2d	US 278 (Fording Island Road) Frontage Roads - Six Sections	\$13,100,000	\$104,825	\$80,171
2e	US 278 Street Lighting at Traffic Signals - SC 170 (Okatie Highway) to Hilton Head Island	\$100,000	\$0	\$6,000
03	SC 170 (Okatie Highway) Widening - SC 46 (May River Rd.) to Tide Watch Dr.	\$26,000,000	\$471,659	\$990,396
04	US 17 (Charleston Highway) Widening - US 21 (Gardens Corner) to Lightsey Plantation Road (Colleton County)	\$100,471,305	\$4,332,359	\$2,667,641
05	US 21 (Boundary Street) Improvements - Neil Road to Palmetto Street	\$13,250,000	\$662,163	\$100,337
06	US 21 (Boundary Street) Parallel Road - SC 170 (Robert Small Parkway) to Sycamore Street	\$8,750,000	\$437,500	\$0
07	SC 802 (Ribaut Road) Intersection Improvements - 3 between Lenora Drive and Lady's Island Drive	\$600,000	\$122,277	\$0
08	SC 802/US 21 (Lady's Island Dr.) Widening - Ribaut Road to Sea Island Parkway	\$35,500,000	\$1,958,176	\$124,500
09	Northern Beaufort Bypass - US 21 (Grays Hill) to Brickyard Point Rd.	\$6,000,000	\$62,627	\$1,042,373
10	SC 802 (Savannah Highway) Widening - SC 170 to Parris Island Gateway	\$7,200,000	\$774,507	\$199,197
		\$317,701,305	\$13,222,420	\$17,975,776

Program Environmental Highlights and Benefits

- Reduced salt marsh impacts on Bluffton Parkway Phase 5A from 3 acres to 0.5 acre with bridge/ ramp design
- Obtained a signed final environmental document in less than 1 year for US 21/ SC 802 Road Widening & Bridge Addition
- Negotiated a new exchange with the SCDOT to fulfill salt marsh mitigation requirements for US 21/ SC 802 and Bluffton Parkway, keeping projects on schedule
- There will be no impacts to aquatic life due to lighting from the SC 802 bridge widening
- Shared shoulder created on SC 802 widening to allow 4 feet for bicycle travel
- A separated pedestrian sidewalk will be included with the SC 802 bridge widening
- Context sensitive design was incorporated extensively on SC 170 widening to avoid as many trees as possible

1. Bluffton Parkway Phase 5A

Location:

Burnt Church Road
to US 278 (Mackays
Creek)

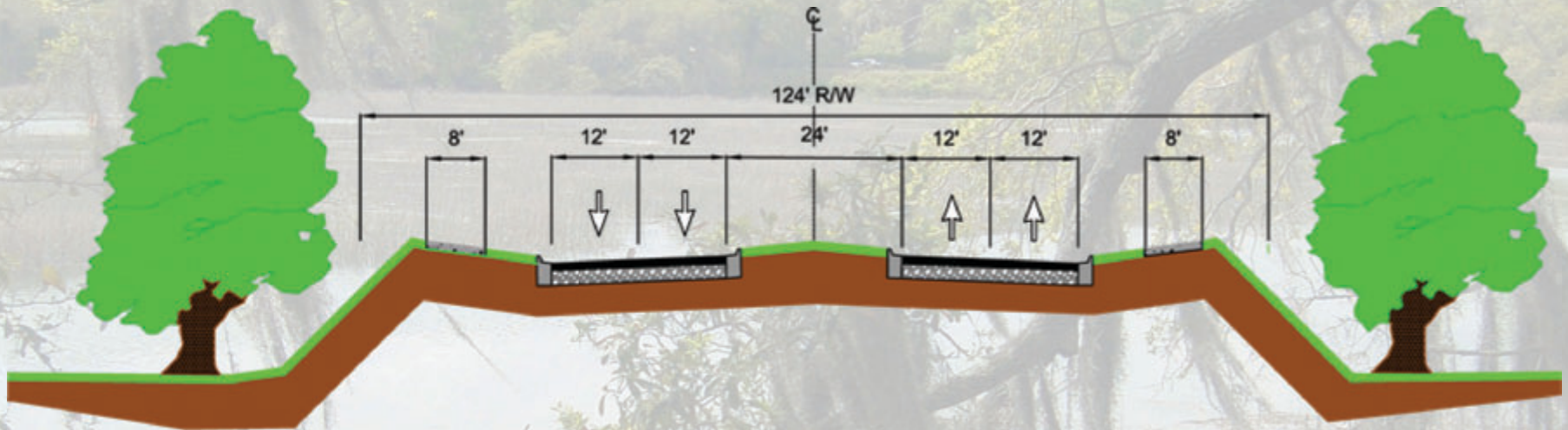
**Description:**

3 miles, 4-lane divided road, 8' multi-use pathways

Project Funding:

County Roadway Sales Tax	\$50,000,000
County Road Impact Fee	\$10,000,000
Total	\$60,000,000
Expenditures to Date	\$2,634,544

1. Bluffton Parkway Phase 5A



Design Consultant: Florence & Hutcheson, Inc.

Project Status:

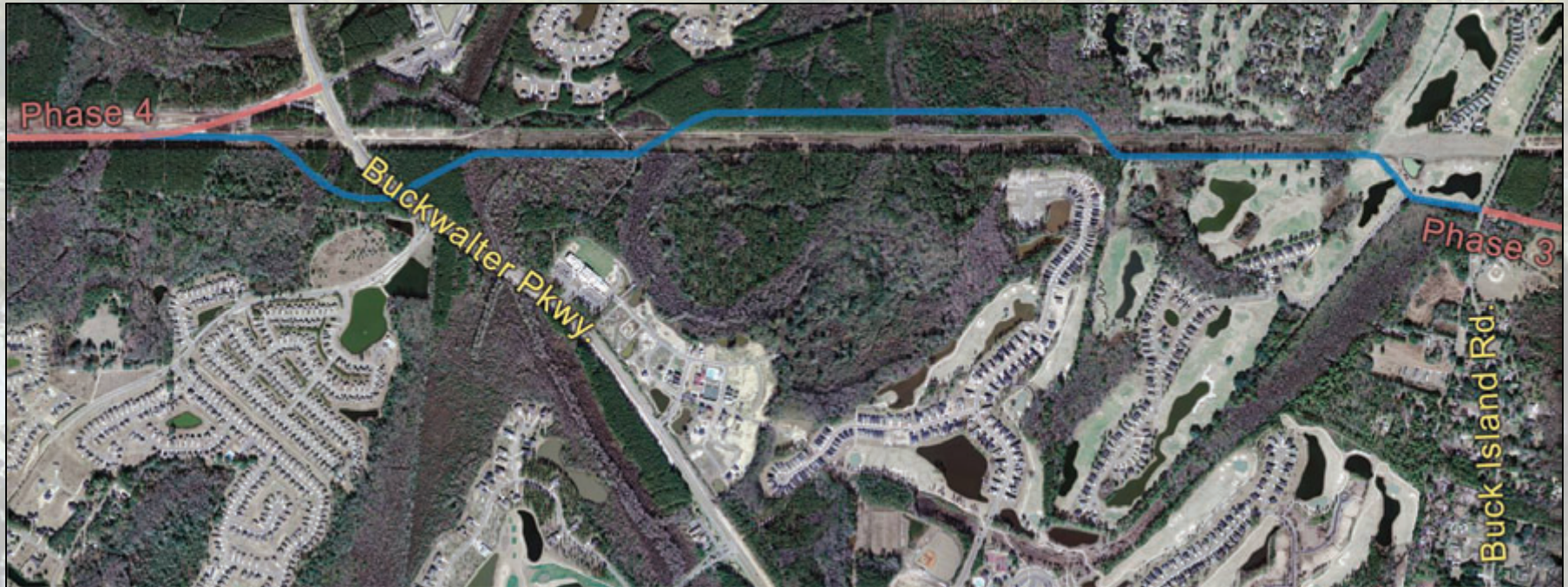
- Bridge design continuing
- Modifying final roadway plans according to Right-of-Way determinations
- Final roadway plans to be submitted on January 30, 2009

1. Bluffton Parkway Phase 5A

Proposed Bluffton Parkway Flyover Bridge



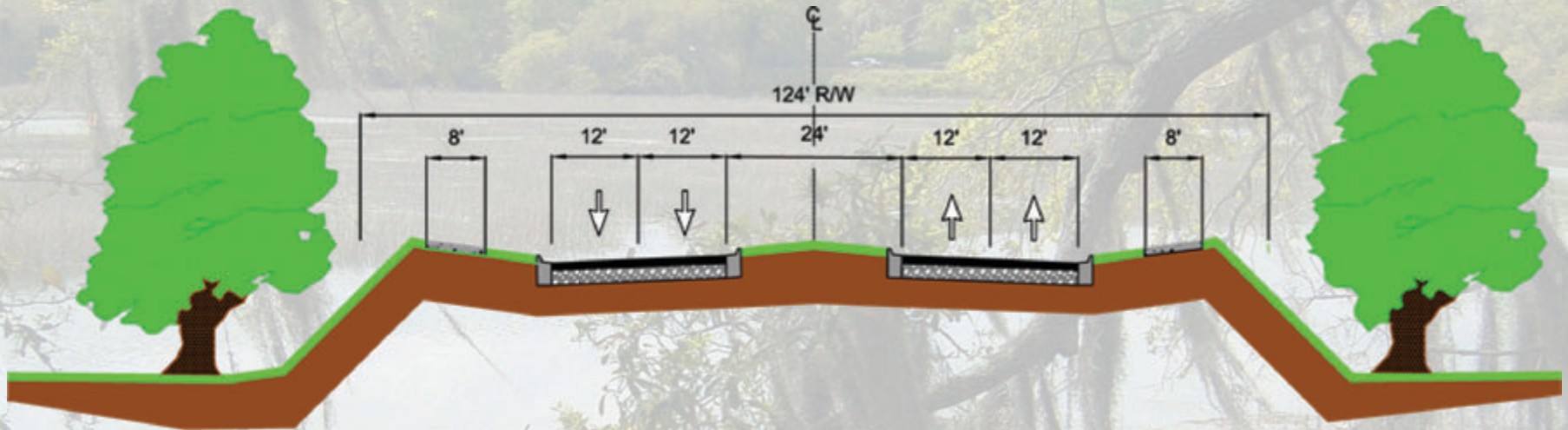
1. Bluffton Parkway Phase 5B



Location: Buckwalter Parkway to Buck Island Road

Description: 2.5 miles, 4-lane divided road, 8' multi-use pathways

1. Bluffton Parkway Phase 5B

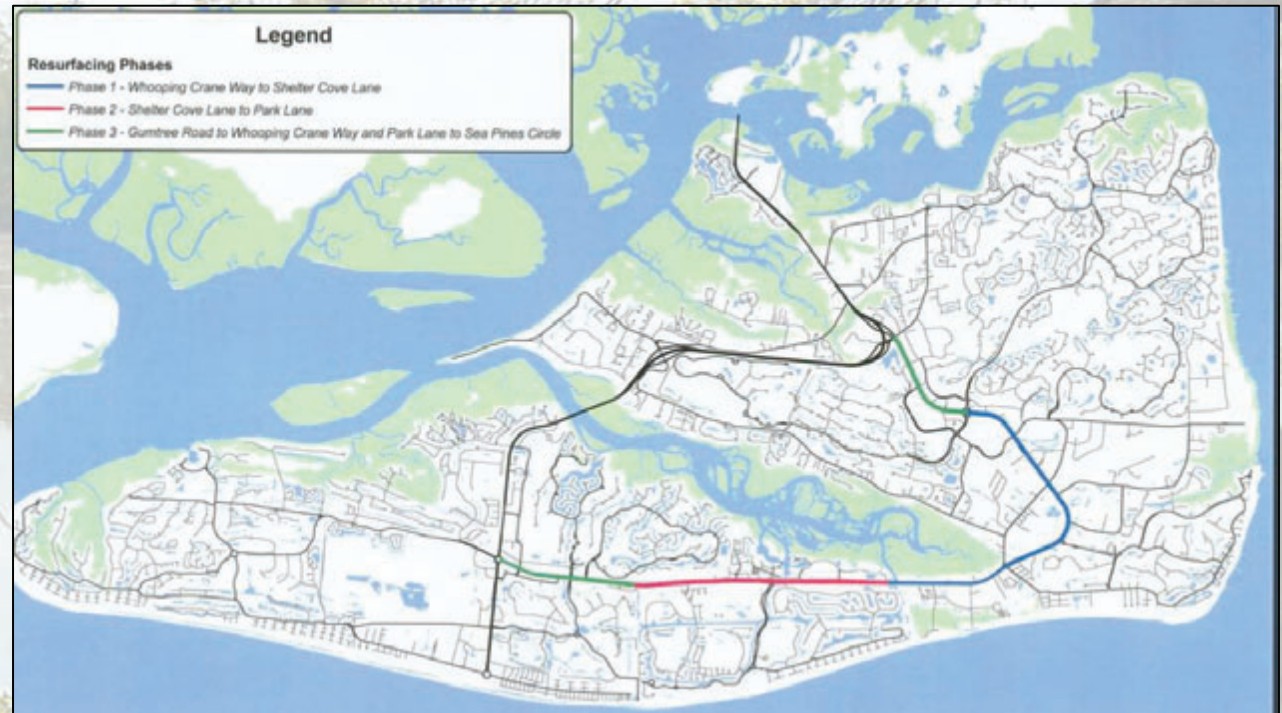


Design Consultant: Florence & Hutcheson, Inc.

Project Status:

- Final Right-of-Way plans completed
- Waiting for United States Army Corps of Engineers to approve permit
- Work on Phase 5B will continue after completion of 5A

2A. US 278 (William Hilton Pkwy.) Resurfacing



Location:

Gumtree Road to Sea Pines Circle

Description:

7.5 miles of resurfacing

Project Funding:

County Roadway Sales Tax	\$4,700,000
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Total	\$4,700,000
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Expenditures to Date	\$0
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2A. US 278 (William Hilton Pkwy.) Resurfacing



Dillon Road and William Hilton Parkway Intersection

Problem Areas



Gardner Drive and William Hilton Parkway Intersection



Mathews Drive and William Hilton Parkway Intersection

Design Consultant: SCDOT

Project Status:

- Phase 1, Whooping Crane Way to Shelter Cove Lane
- Phase 1 construction to begin in early 2009, APAC awarded contract
- Phase 1 construction to be completed prior to the Heritage Golf Tournament by April, 2009
- Phase 2, Shelter Cove Lane to Park Lane, construction planned to begin in 2009
- Phase 3 (Two parts) Gumtree Road to Whooping Crane Way and Park Lane to Sea Pines Circle, construction planned for 2010

2B. US 278 Intersection Realignment

**Location:**

Squire Pope Road

Description:

Intersection improvement

Project Funding:

County Roadway Sales Tax	\$2,400,000
Total	<u>\$2,400,000</u>
Expenditures to Date	\$1,261,924

2B. US 278 Intersection Realignment

Crosswalk for Pedestrian Access Across Highway 278



Re-alignment of US 278 and Squire Pope Road Intersection Completed and Fully Operational

Construction Photos



Sidewalk and Crosswalks Complete

Design Consultant: Wilbur Smith Associates

Construction Firm: U.S. Group

Project Status:

- Roadway construction complete
- W.M. Roebuck, Inc. selected for mast arm upgrades project

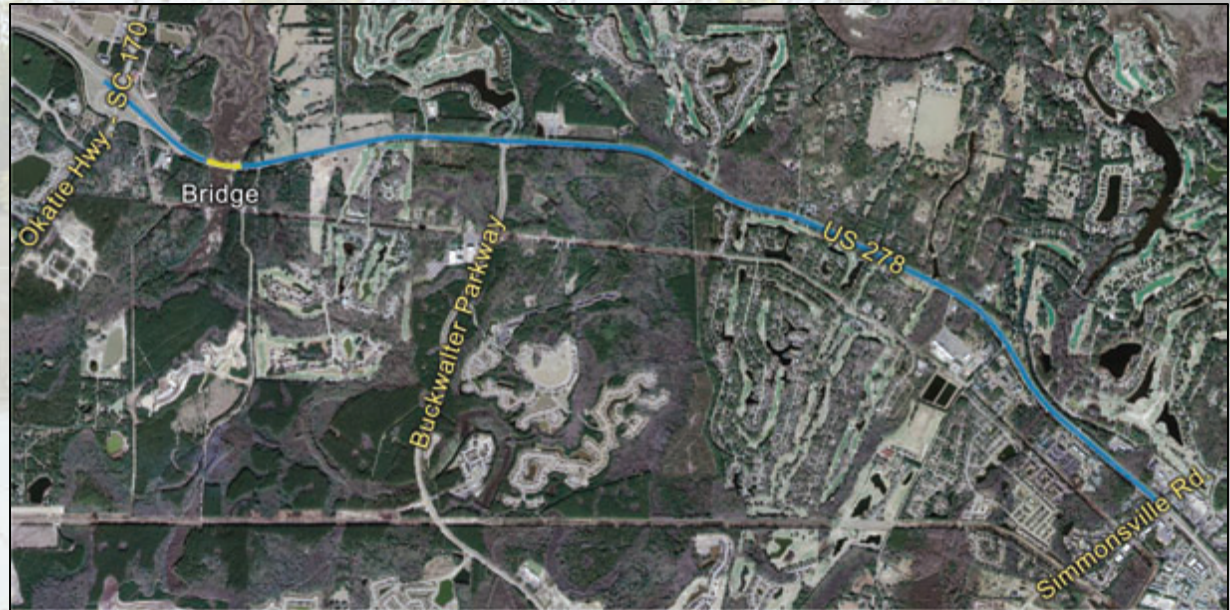
2C. US 278 (Fording Island Road) Widening

Location:

SC 170 (Okatie Highway)
to Simmonsville Road

Description:

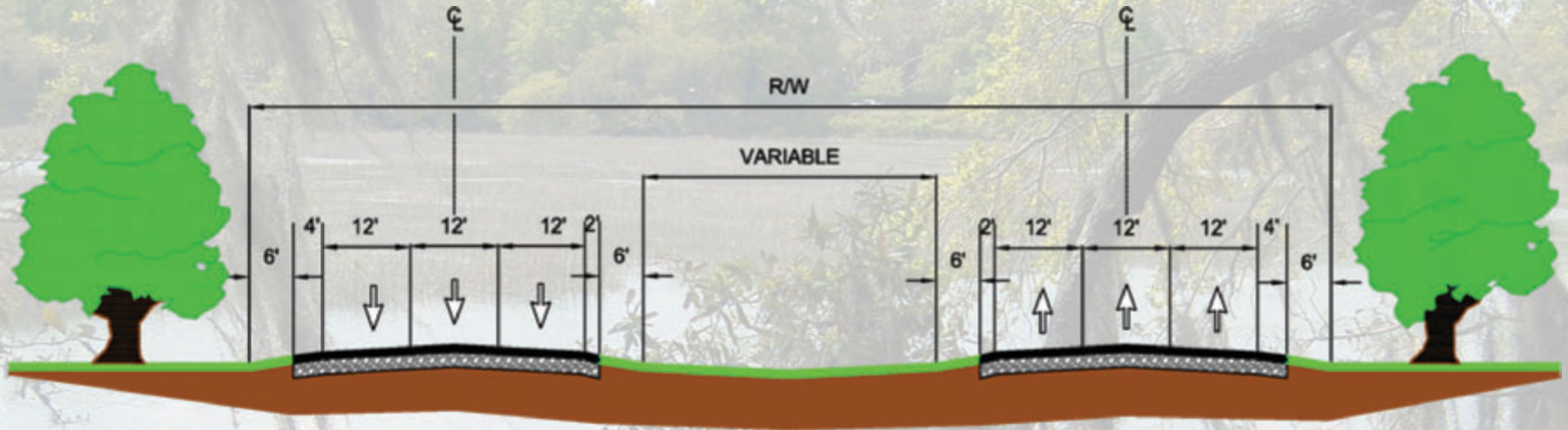
5.3 miles, 6-lane divided
highway



Project Funding:

County Roadway Sales Tax	\$17,600,000
State and Federal Funding	\$15,530,000
County Road Impact Fee	\$7,000,000
Total	\$40,130,000
Expenditures to Date	\$400,059

2C. US 278 (Fording Island Road) Widening



Design Consultant: SCDOT

Project Status:

- Public hearing planned for end of March, 2009
- SCDOT Plans to obligate Right-of-Way for summer 2009
- Construction letting planned for January, 2010

2D. US 278 Frontage Roads

Description:

Frontage roads at six locations on US 278:

1. Buckwalter Commercial
2. St. Gregory
3. Rose Hill
4. Plantation Business Park
5. Tanger Outlet
6. The Gatherings

Design Consultant:

Florence & Hutcheson, Inc.

Project Funding:

County Roadway Sales Tax	\$3,600,000
Town and City Funding	\$3,500,000 *
County Road Impact Fee	\$6,000,000
Total	<u>\$13,100,000</u>
Expenditures to Date	\$104,825

*pending from other sources



2D. US 278 Frontage Roads



US 278 Frontage Roads in Relation to US 278 and the Proposed Bluffton Parkway

2D. US 278 Frontage Roads – Buckwalter Commercial



Location:

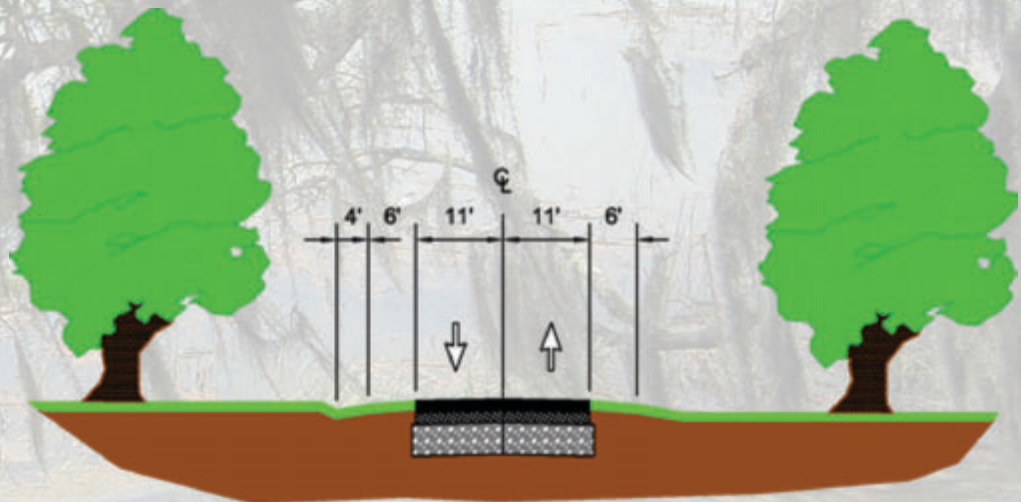
Buckwalter Commercial, west of
Buckwalter Parkway

Description:

Frontage road design

Project Status:

- Project is complete and all documents were submitted to the Town of Bluffton in November, 2008



2D. US 278 Frontage Roads – St. Gregory



Location:

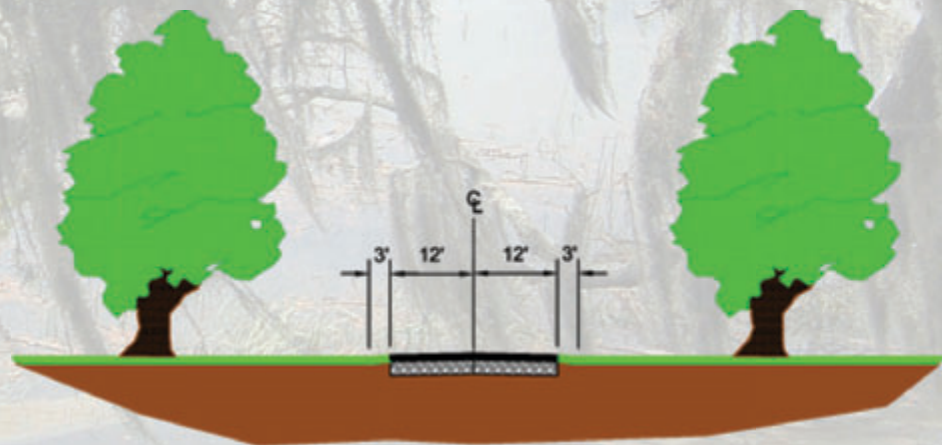
St. Gregory by Berkeley Hall, north of US 278, east of Buckwalter Parkway

Description:

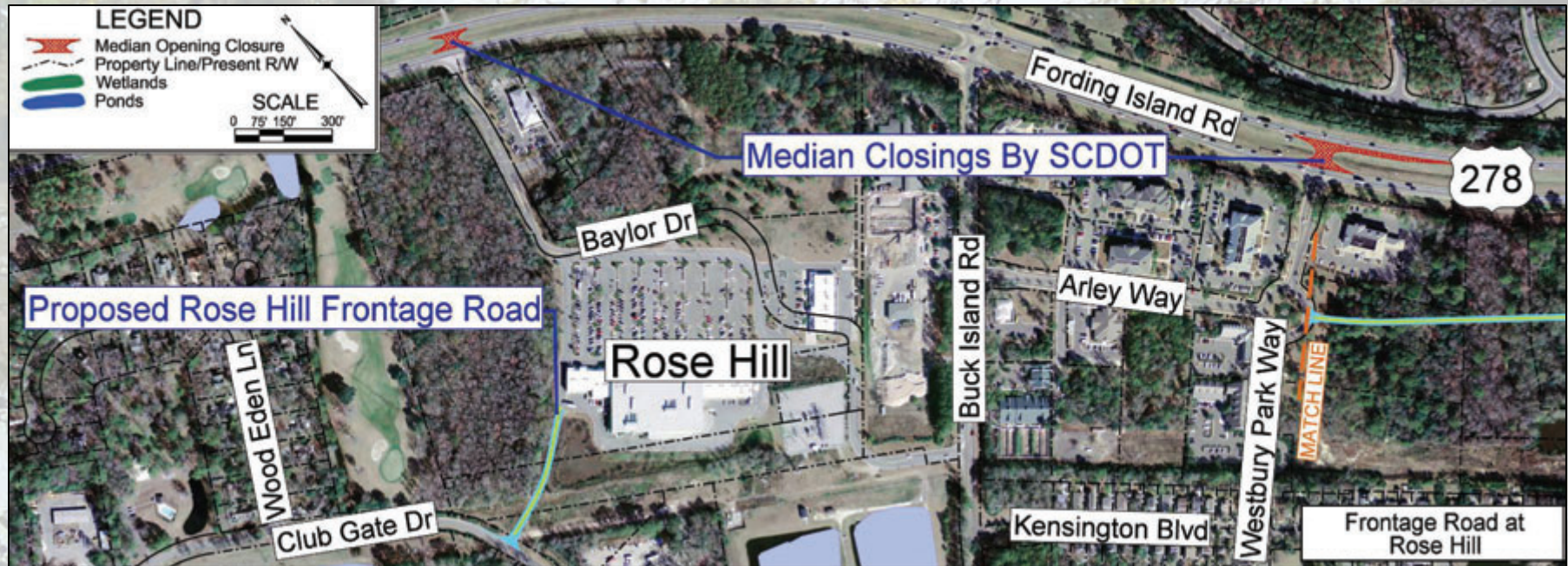
Design and build frontage road from Berkeley Hall to the fire station

Project Status:

- Design complete and awaiting USACO and OCRM permits



2D. US 278 Frontage Roads – Rose Hill



Location:

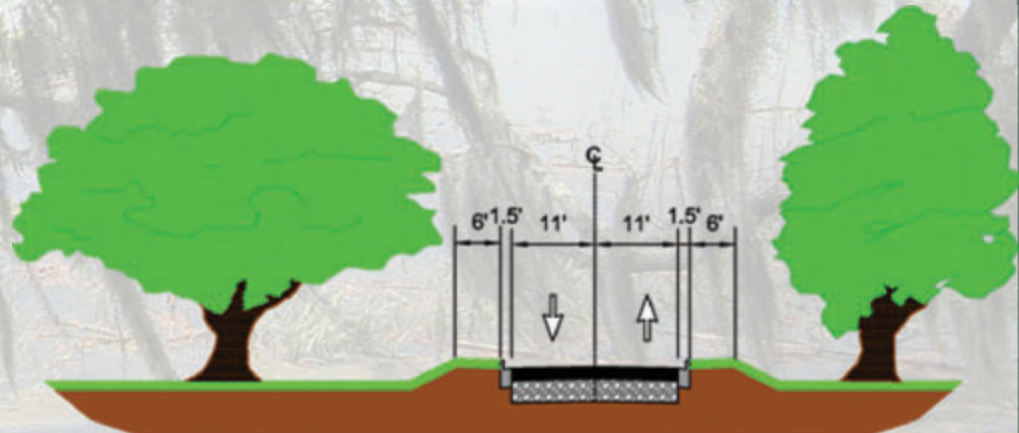
Rose Hill, west of Buck Island Road

Description:

Frontage road design and construction

Project Status:

- Rose Hill property owners rejected the project; 84% voted against it



2D. US 278 Frontage Roads – Plantation Business Park



Location:

Plantation Business Park, from Westbury Park Way to Simmons Road

Description:

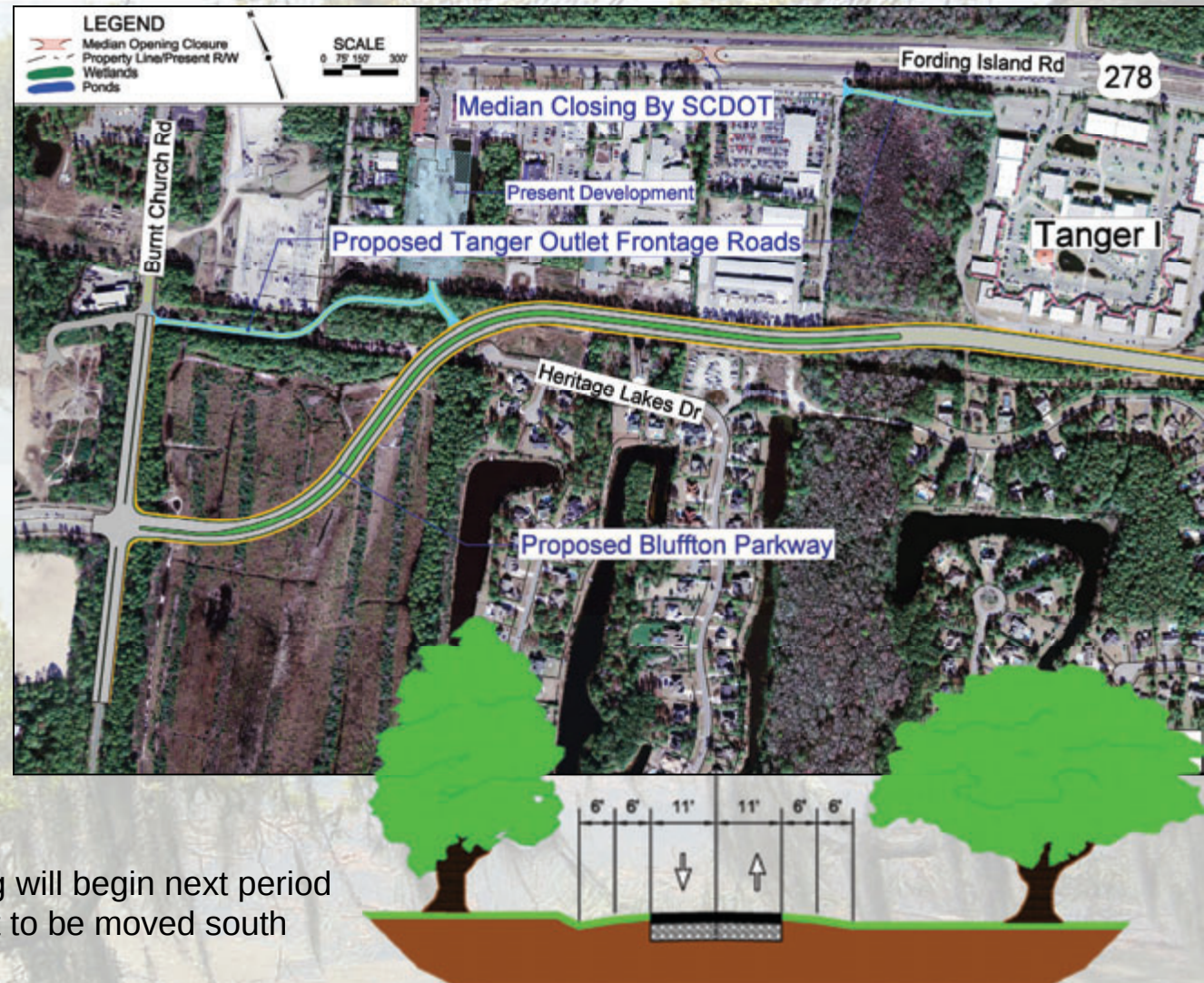
Frontage road design and construction

Project Status:

- USACE approved revised drawings January 7, 2009
- Environmental permitting upcoming
- Right-of-Way acquisition has started



2D. US 278 Frontage Roads – Tanger 1 Outlet



Location:

Tanger Outlet, east of
Burnt Church Road

Description:

Frontage road design
and construction

Project Status:

- Environmental permitting will begin next period
- Frontage road alignment to be moved south and redesigned

2D. US 278 Frontage Roads – The Gatherings



Location:

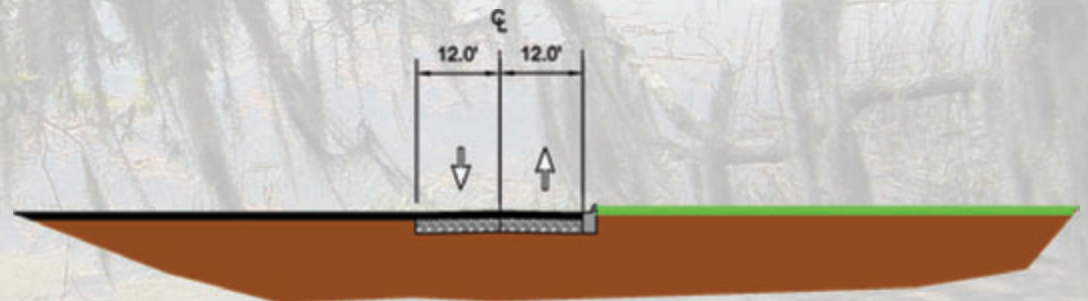
The Gatherings at Salt Marsh Lane

Description:

Frontage road design and construction

Project Status:

- Conceptual plans submitted to county and approved for permit
- Design work continuing



2E. US 278 (Fording Island Rd.) Street Lighting

Location:

SC 170 (Okatie Highway) to Hilton Head Island

Description:

Streetlights at signalized intersections along US 278

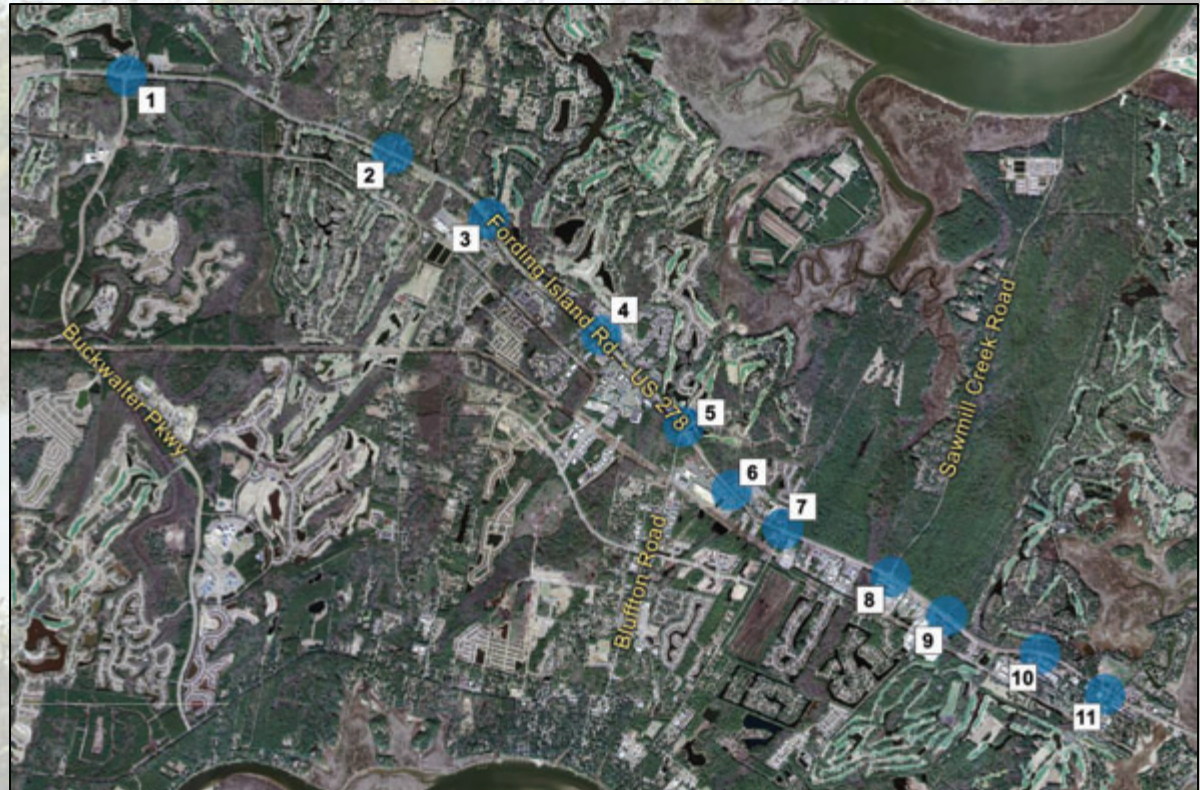
1. Buckwalter Parkway
2. Rose Hill Way
3. Buck Island Road
4. Simmonsville Road
5. Bluffton Road
6. Gateway Village Road (New Target)
7. Burnt Church Road
8. Sawmill Creek Road
9. Malphrus Road
10. Tanger 2
11. Buckingham Plantation Drive

Project Status:

- Project to be bid February, 2009

Project Funding:

County Roadway Sales Tax	\$100,000
Total	<u>\$100,000</u>
Expenditures to Date	\$0



3. SC 170 (Okatie Highway) Widening

Location:

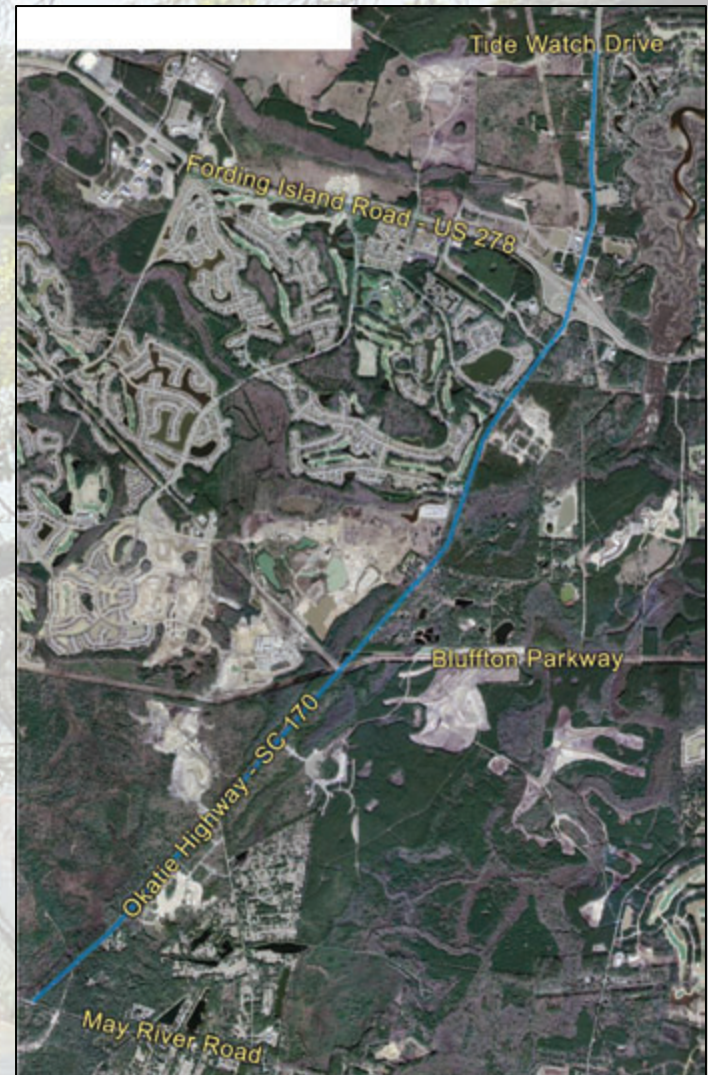
SC 46 (May River Road) to
Tide Watch Drive (Rivers
Bend)

Description:

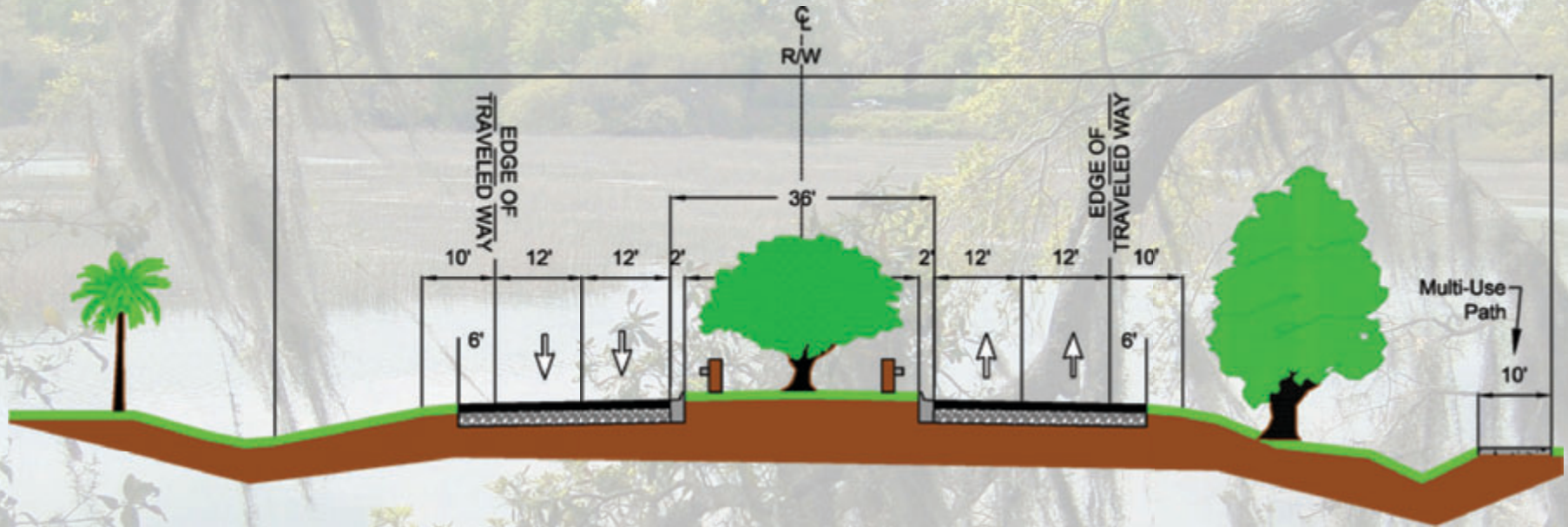
6 miles, 4 and 6-lane divided roadway, context-sensitive design based on existing trees, pathways/ paved shoulders

Project Funding:

County Roadway Sales Tax	\$6,000,000
County Road Impact Fee	\$20,000,000
Total	<u>\$26,000,000</u>
Expenditures to Date	\$471,659



3. SC 170 (Okatie Highway) Widening



Design Consultant: Thomas & Hutton Engineering Company

Project Status:

- Full design underway
- Continue compiling property data
- 70% Right-of-Way Plans under design and are approximately 60% complete

4. US 17 (Charleston Highway) Widening

Location:

US 21 (Gardens Corner) to
Lightsey Plantation Road
(Colleton County)

Description:

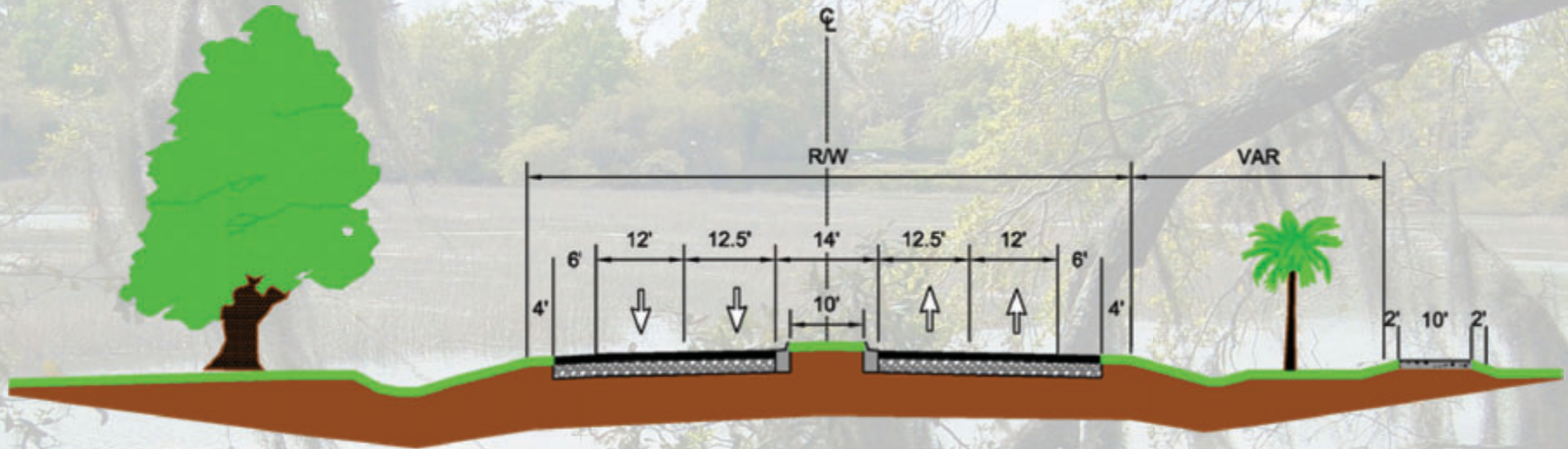
6 miles, 4-lane divided roadway,
multi-use pathways

Project Funding:

County Roadway Sales Tax	\$5,000,000
State and Federal Funding	\$93,471,305
County Road Impact Fee	\$2,000,000
Total	\$100,471,305
Expenditures to Date	\$4,332,359



4. US 17 (Charleston Highway) Widening



Design/ Build Contractor: Phillips & Jordan, Inc.

Project Status:

- All of the Phase 1 bridge deck spans were completed in December; both bridges are 65% complete
- River road is nearing completion and should be opened back up by the end of January
- Several areas between the Combahee River and Big Estate Road have had their embankments reinforced with cement prior to placing the aggregate base course

4. US 17 (Charleston Highway) Widening

Construction Photos



Land Bridge North Side



Looking South towards
Jacob White Road



North Bridge 2

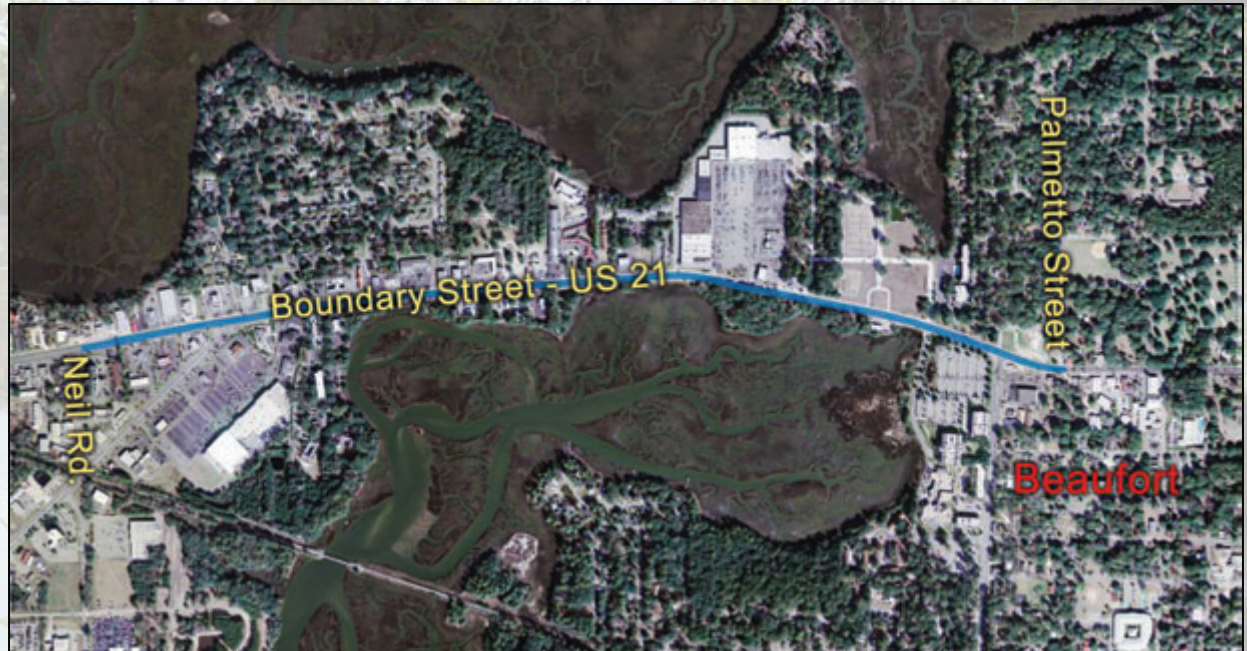
5. US 21 (Boundary Street) Improvements

Location:

Neil Road to Palmetto Street

Description:

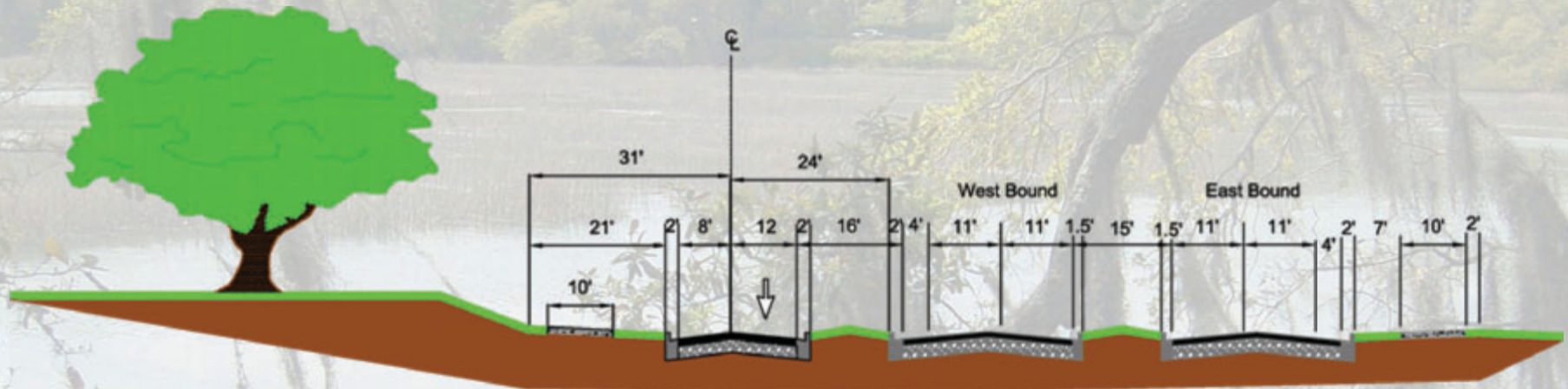
2 miles, improving capacity, intersections, safety, streetscaping, adding roundabout, multi-use pathways, providing redevelopment opportunity



Project Funding:

County Roadway Sales Tax	\$9,500,000
County Road Impact Fee	\$3,750,000
Total	\$13,250,000
Expenditures to Date	\$662,163

5. US 21 (Boundary Street) Improvements



Design Consultant: Kimley-Horn and Associates, Inc.

Project Status:

- Draft feasibility report submitted on December 15th, 2008
- Begin RFP/ RFQ process for final design phase

5. US 21 (Boundary Street) Improvements

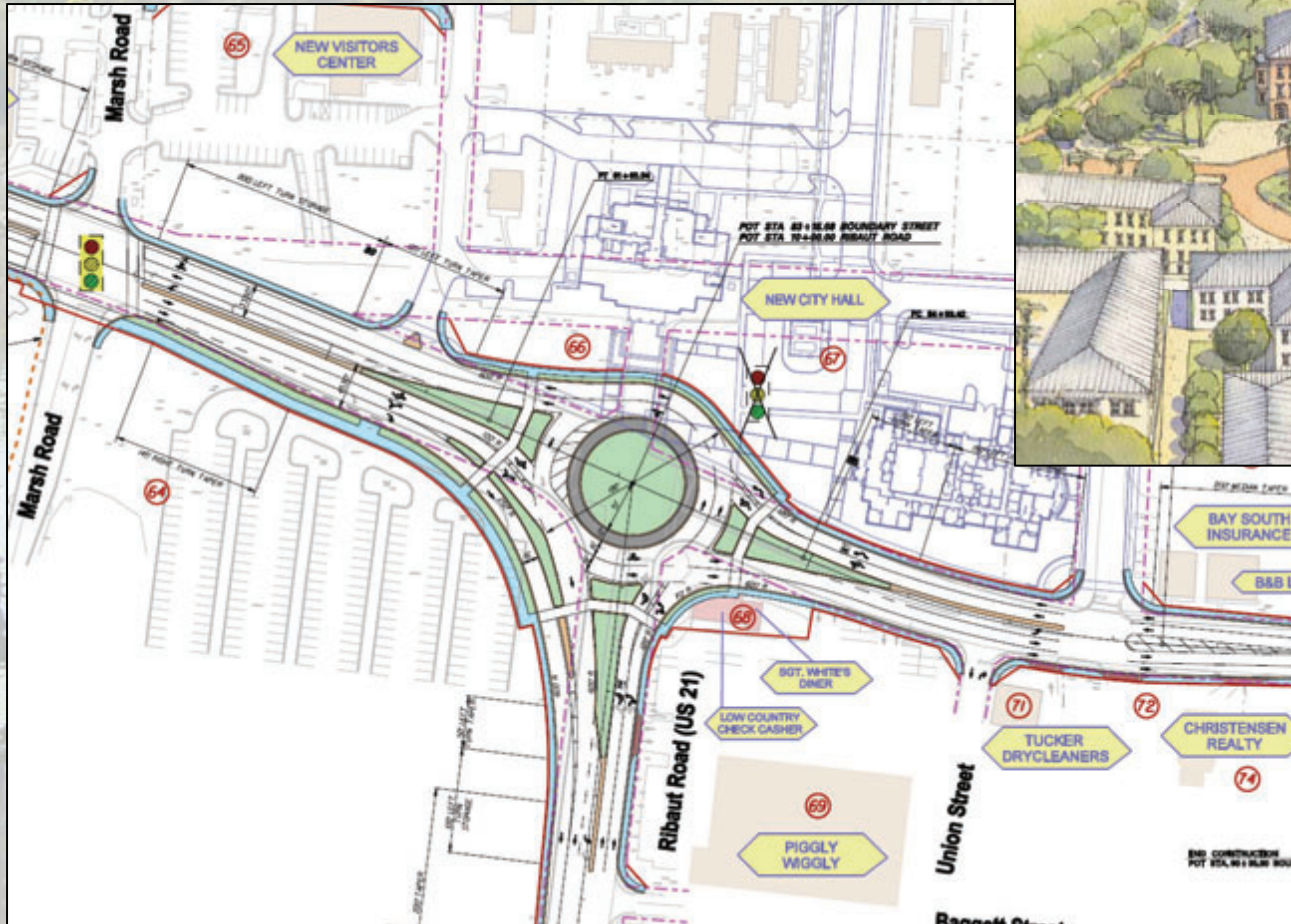


Illustration of Project Potential

Project Plans for Roundabout at Boundary Street and Ribaut Road

6. New Parallel Road to Boundary Street

Location:

Robert Smalls
Parkway (SC 170)
to Sycamore Street

Description:

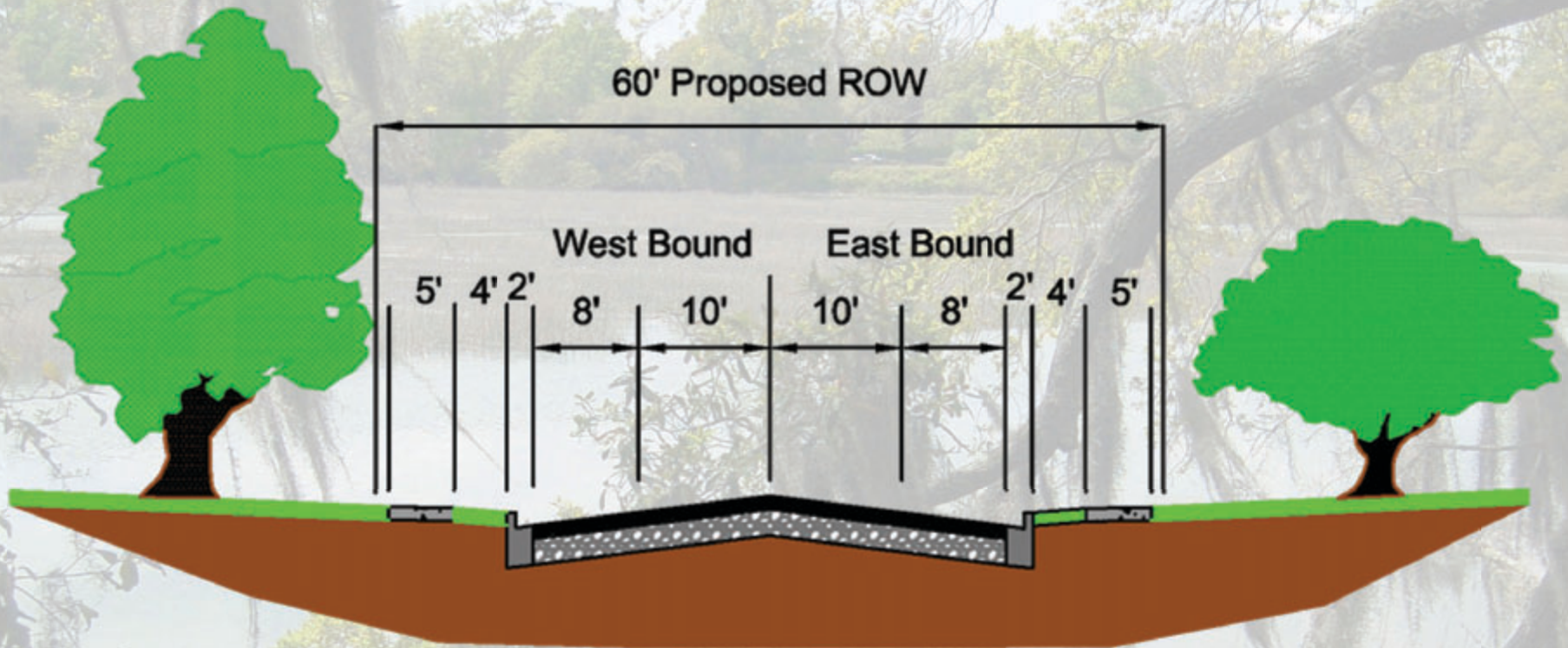
Partial new
construction on
north side of US
Route 21



Project Funding:

County Roadway Sales Tax	\$4,200,000
County Road Impact Fee	\$4,550,000
Total	<u>\$8,750,000</u>
Expenditures to Date	\$437,306

6. New Parallel Road to Boundary Street



Design Consultant: Kimley-Horn and Associates, Inc.

Project Status:

- Completed Boundary Street Feasibility Study draft
- Finalizing Feasibility Study

7. SC 802 (Ribaut Road) Intersection Improvements

Location:

West of Edinburgh Avenue to north of Old Shell Road

Description:

Improvements at three intersections:

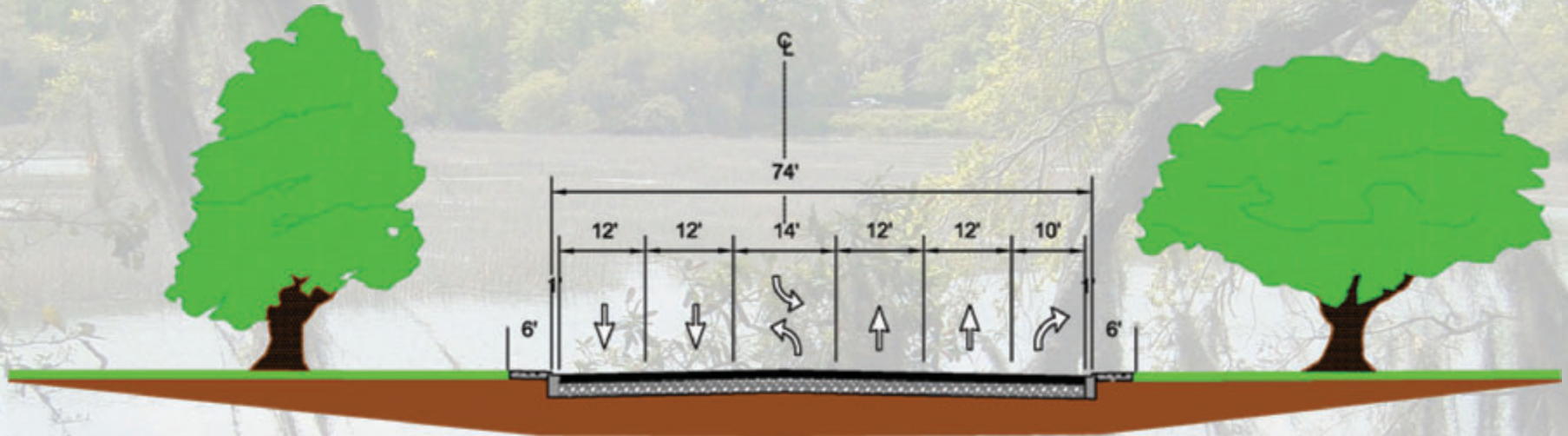
- Vaigneur Road/ Edinburgh Road/ West Paris Avenue
- East Paris Avenue
- Old Shell Road

Project Funding:

County Roadway Sales Tax	\$600,000
County Road Impact Fee	\$1,001,000
Total	<u>\$1,601,000</u>
Expenditures to Date	\$122,269



7. SC 802 (Ribaut Road) Intersection Improvements



Design Consultant: Dennis Corporation

Project Status:

- County Council has awarded constructions bids
- Contract documents are out for execution
- Construction to commence February, 2009

8. SC 802/ US 21 (Lady's Island Dr.) Widening

Location:

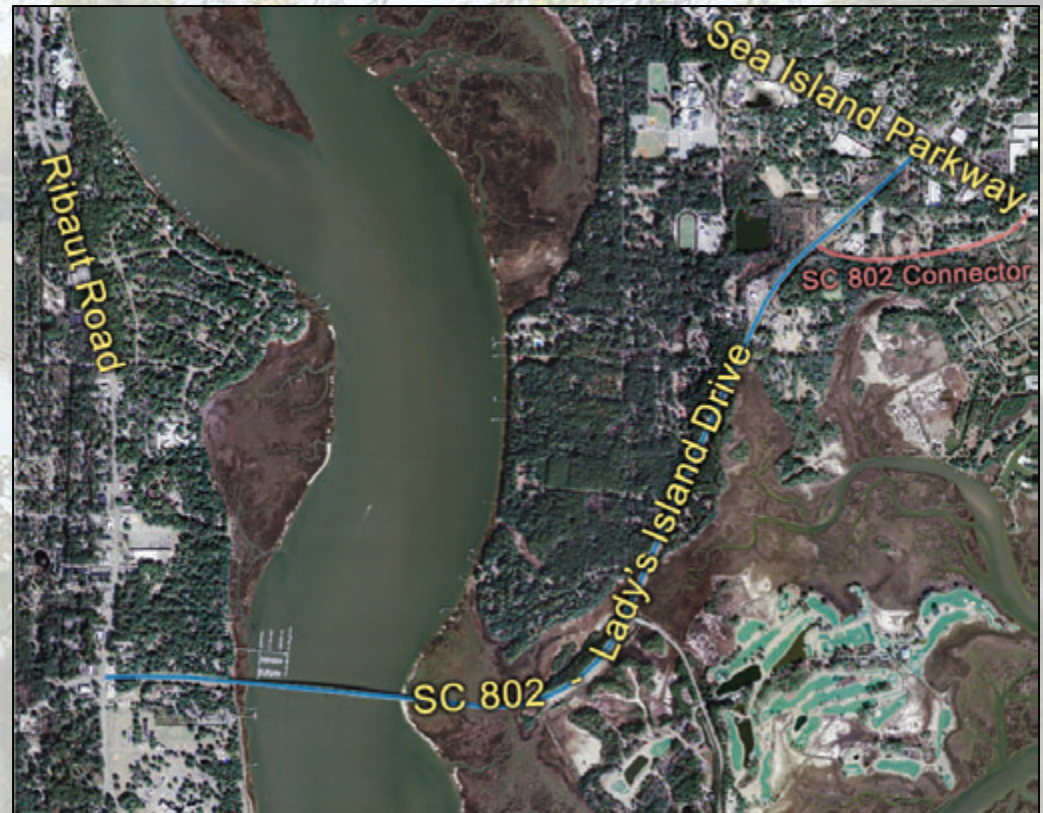
SC 802 (Ribaut Road) to US 21
(Sea Island Parkway)

Description:

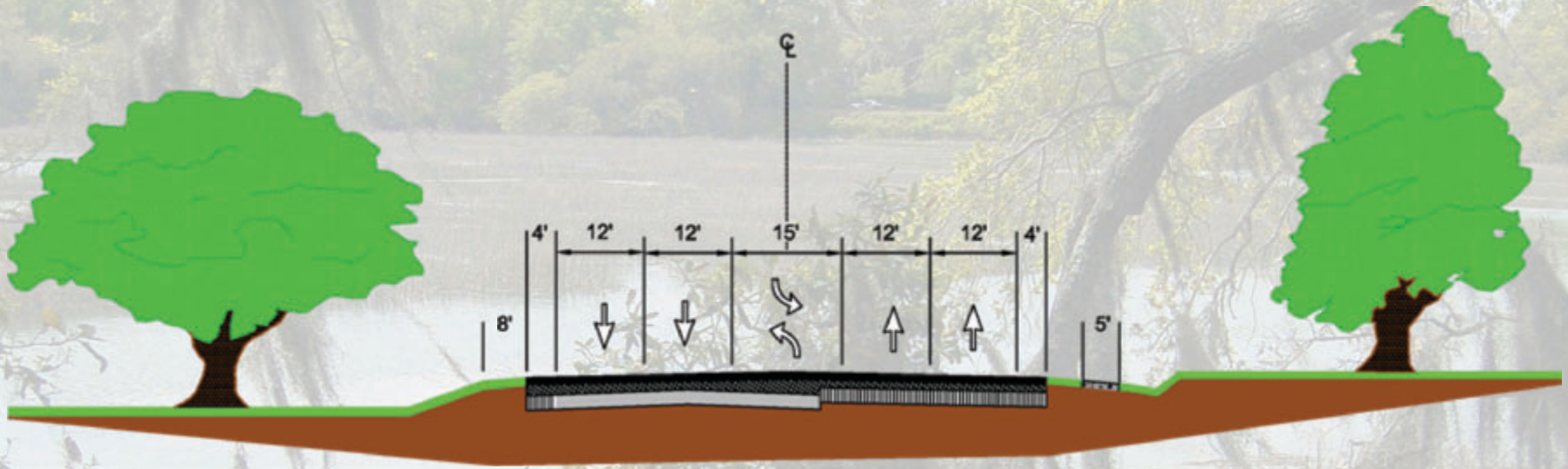
2.8 miles, 4-lane divided roadway
with new bridge, sidewalks,
pathways and bike lanes

Project Funding:

County Roadway Sales Tax	<u>\$35,500,000</u>
Total	\$35,500,000
Expenditures to Date	\$1,958,176



8. US 21/ SC 802 (Lady's Island Dr.) Widening



Design Consultant: Collins Engineers, Inc.

Project Status:

- Bids received for roadway plans January 7th, 2009
- Right-of-Way acquisition completed
- Will conduct pre-construction meeting
- Bridge plan comments received from SCDOT on January 9, 2009

8. US 21/ SC 802 (Lady's Island Dr.) Widening

Proposed Renderings

Looking South on Lady's Island Drive



SC 802 Bridge

9. Northern Beaufort Bypass

Location:

US 21 (Grays Hill) to Brickyard Point Rd. (tentative)

Description:

Environmental study for bypass

Project Funding:

County Roadway Sales Tax	\$6,000,000
Total	<u>\$6,000,000</u>
Expenditures to Date	\$62,627



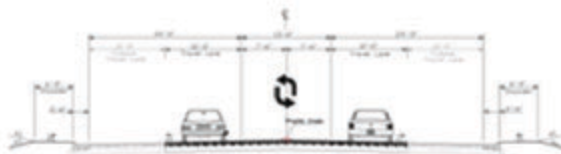
Proposed Alignments

9. Northern Beaufort Bypass

Design Consultant: Thomas & Hutton Engineering Co.

Project Status:

- Completed collection of GIS information
- Submitted draft alignments, December 15, 2008
- Public information meeting in early February



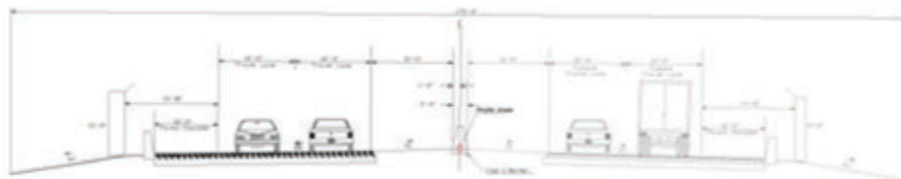
CROSS-SECTION - TYPE 1

DESIGN CRITERIA
 FUNCTIONAL CLASSIFICATION = URBAN COLLECTOR
 DESIGN TRAFFIC VOLUMES = URBAN ADT WITH
 A LOS B
 DESIGN SPEED = 50 MPH
 SITE DISTANCE = STOPPING = 400'
 + DECISION = 900'
 + INTERSECTION = 800'
 MINIMUM HORIZONTAL CURVATURE = 800'
 CWR = 0.05
 MAXIMUM GRADES = 0.05



CROSS-SECTION - TYPE 2

DESIGN CRITERIA - LIMITED ACCESS
 FUNCTIONAL CLASSIFICATION = MINOR ARTERIALS
 DESIGN TRAFFIC VOLUMES = URBAN ADT WITH
 A LOS B
 DESIGN SPEED = 40 MPH
 SITE DISTANCE = STOPPING = 300'
 + DECISION = 800'
 + INTERSECTION = 600'
 MINIMUM HORIZONTAL CURVATURE = 1000'
 CWR = 0.05
 MAXIMUM GRADES = 0.05



CROSS-SECTION - TYPE 3

DESIGN CRITERIA
 FUNCTIONAL CLASSIFICATION = PRINCIPAL ARTERIALS
 DESIGN TRAFFIC VOLUMES = URBAN ADT WITH
 A LOS B
 DESIGN SPEED = 40 MPH
 SITE DISTANCE = STOPPING = 300'
 + DECISION = 800'
 + INTERSECTION = 600'
 MINIMUM HORIZONTAL CURVATURE = 1000'
 CWR = 0.05
 MAXIMUM GRADES = 0.05

Proposed Cross-sections

10. SC 802 (Savannah Hwy) Widening

Location:

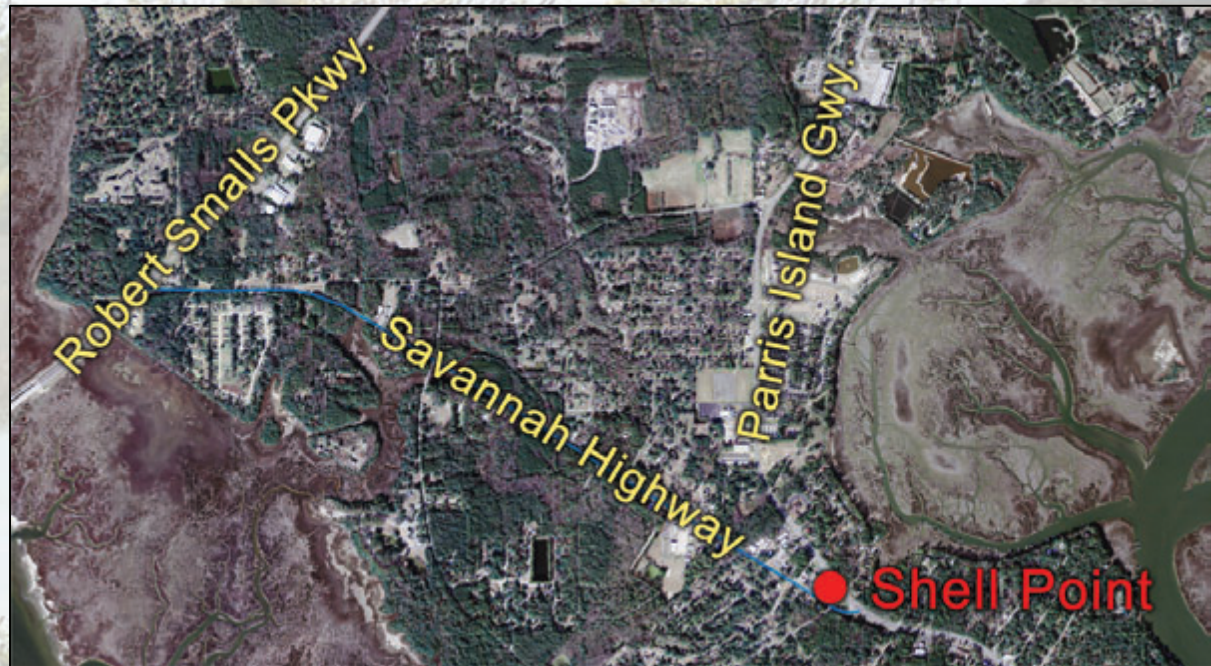
SC 170 (Robert Smalls Parkway) to Parris Island Gateway

Description:

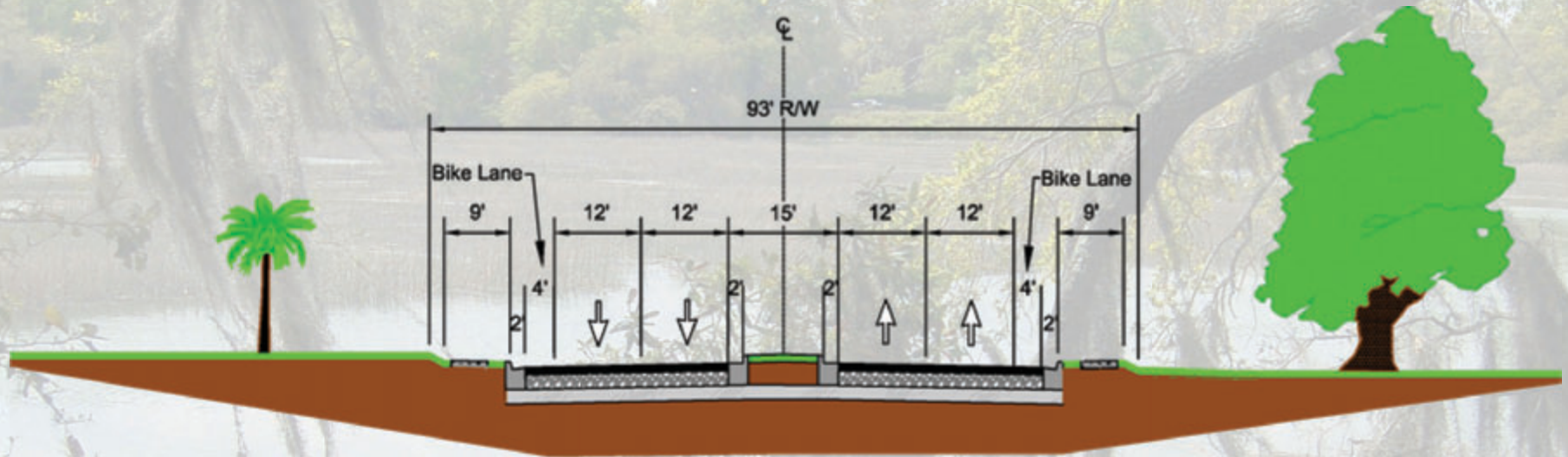
2.1 miles, 5-lane roadway, planted median, sidewalks and bike lanes

Project Funding:

County Roadway Sales Tax	\$7,200,000
Total	<u>\$7,200,000</u>
Expenditures to Date	\$774,507



10. SC 802 (Savannah Hwy) Widening



Design Consultant: Collins Engineers, Inc.

Project Status:

- Right-of-Way acquisition complete
- Bids received for roadway plans January 7th, 2009
- Selecting contractor to build roadway

10. SC 802 (Savannah Hwy) Widening

Proposed Rendering



Program Management Update

- **All Projects in Design**
- **Developed Cost Tracking System**
- **Compiled Draft Master Program Schedule**
- **Generating Cash Flow Projections**
- **Providing Monthly Project Status Reports to County Council**