



MEMORANDUM

TO: Mayor Sulka and Members of Town Council
FROM: Kim Jones, Director of Engineering & Public Works
SUBJECT: Engineering & Public Works Update
DATE: November 25, 2014
CC: Marc Orlando, Town Manager

CAPITAL IMPROVEMENTS PROGRAM (CIP) UPDATES

OLD TOWN IMPROVEMENTS

May River Road Streetscape (Final Phase): Design Phase

- Presentation to Council on streetscape.
 - Resolved parking widths to remain 10 feet wide per SCDOT requirements. Where trees may be impacted, parking spaces should be eliminated and road bumped out at those locations.
 - Irrigation needs to be included on the landscape plan.
 - Where possible, staff needs to get approval from property owners to add landscaping just beyond the Right of Way.

Calhoun Street and Adjacent Area Study: Conceptual Phase

- Consultant preparing materials for presentation to Council at December meeting.
- Growth Management presented parking information to Council at workshop.
 - Resolved to add directional and location specific parking signs.
 - Work with businesses and Old Town Merchant Association to have employees park away from businesses.
 - Work toward expanding parking on adjacent side streets as appropriate.
 - Work with churches to share more parking.

STORMWATER

May River Watershed Action Plan Wetlands Restoration: Conceptual Phase

- Wetland delineation report has been received by Staff.
- Adjacent and offsite survey work has been completed. Survey ongoing at project area for site characteristics and topography.

- Staff is continuing to keep property owners updated on the progress of the initial investigations and field work.
- Staff is working with consultant on work authorization for wetland and subsurface hydrology evaluation, which is the next phase of data collection.

New Riverside Pilot Project (319 Phase 1 Grant): Operations & Maintenance (O&M) Phase

- Weekly water quality sampling and inspections on-going.

Pine Ridge BMP Retrofit (319 Phase 2 Grant): Conceptual Phase

- Baseline data collection ongoing.
- Staff has conducted additional field work and investigations based on some of the baseline data that has been collected from the monitoring equipment.
- Request for Proposal for retrofit project has been released and is open.

Verdier Cove Drainage Basin: Operations & Maintenance (O&M) Phase

- Performed 4 stream gauge readings in Bluffton Park for the Verdier Cove monitoring.
- Staff conducts routine inspections weekly to ensure the historic flow patterns are maintained during Bluffton Park – Red Cedar construction activities.

SEWER & WATER

Buck Island-Simmons ville Sewer (Phase 3): Design Phase

- Preparing to send condemnation letters and checks to residents who have accepted the initial offer for sewer easement compensation.
- Working with LCOG on the preapproval bid package, prior to releasing for Public Notice.

Buck Island-Simmons ville Sewer (Phase 4): Design Phase

- Received Disturbance Permit from SCDHEC on October 17, 2014.
- Received Construction Permit November 14, 2014.
- Reviewed Easement Plats and returned to project contractor.
- Send out initial offer letters to residents within the next 15 days.

Buck Island-Simmons ville Sewer (Phases 5-7): Design Phase

- Have received and reviewed preliminary plans.
- Survey work is complete.
- Performed a field review with project engineer on preliminary plans.

Jason Street Sanitary Sewer: Design Phase

- Consultant has been selected, finalizing contract.
- Survey work will begin in December.

Toy Fields: Design Phase

- Met with residents to review plans and obtain their approval. Received positive feed back.
- Working with BJWSA representatives and residents to purchase pump site and access easement.
- BJWSA working on purchase and easement documents.
- Plans are being finalized.
- Projected to commence in January 2015.

PARKS

Oyster Factory Park: Design Phase

- **Dock**
 - SCDNR has submitted package to US Fish & Wildlife. Projected approval January 1, 2015. Cannot bid until grant approved.
 - Bid package is in process.
 - Projected construction date to begin after the first of year with completion late in the spring.
- **Garvin House**
 - Had second public meeting with no clear consensus.
 - Proceeding with construction drawings, but maintaining maximum flexibility for final use.
 - Awaiting feedback from stakeholders of the Community.
 - Researching suggestions of nominal fee for parking.
- **Parking Lot**
 - Have disturbance permit.
 - Answering DRC comments.
 - Will begin the process of a bid package for the construction of additional parking this week, assuming there may be a few changes.

PATHWAYS

General Pathways: Design Phase

- Goethe Road Plans are complete.
- Will submit to SCDOT next week along with Encroachment permit.
- Working on easement and permission letters.

DIVISION/STAFF UPDATES

- Jones and Ritchie attended the Beaufort County Stormwater Utility Board meeting.
- Jones and Ritchie attended the Stormwater Implementation Committee meeting.
- Jones and Ritchie met with Leininger, Lesch and Stimpson to coordinate and discuss Enterprise forms and updates.
- Jones attended the final Beaufort County Sea Level Rise Vulnerability Assessment.
- Jones gave a presentation to the Bluffton Chamber of Commerce Leadership Class.
- Jones and Ritchie attended the Bluffton Summit meeting.
- All of Engineering, Public Works, and Stormwater Management staff attended the Town's Annual Thanksgiving meal.
- Ritchie, Norris, Baugher and Diaz met with Wiggins, Hamilton and Patterson to coordinate on how to better track ditch annual stormwater infrastructure maintenance.
- Lewis attended quarterly Together for Beaufort meeting.
- Lewis and Stormwater staff submitted for a Palmetto Pride Community Pride Grant in the amount of \$4,500.
- Lewis and County Channel Staff finalizing three educational stormwater PSA's for broadcast.
- Lewis, Baugher, Leinbach and Jones attended the second series of Staff Orientation Training with Growth Management.
- Jones, Ritchie, Lewis and Baugher attended Center for Watershed Protection webinar "Retrofitting Existing Stormwater Ponds."
- Ritchie, Leinbach, Lewis and Baugher drove through Town of Bluffton development projects to assess current status of erosion control best management practices implementation throughout Town limits.
- Ritchie, Norris and Baugher met to discuss creating Stormwater Drainage Inventory Maps for the Town of Bluffton.
- Baugher attended the Five Star and Urban Waters 2015 Grant Program Webinar.
- Baugher and Lewis collected 176 nodes and conveyances for the Stormwater Model.
- Baugher preformed 5 data collection readings for the Pine Ridge 319 grant project.
- Leinbach completed 105 erosion and sediment control (E&SC) inspections and prepared reports.
- Leinbach performed one Neighborhood Assistance Program (NAP) septic pump out.
- Norris continues to update and revise GIS Impervious layer.
- Norris creating Stormwater Drainage Inventory Maps for the Town of Bluffton and updates of data received from Stormwater Technicians.
- Hutchinson & Schumacher conducted a follow-up public meeting for the Garvin House.

- Hutchinson participated in the event at the Garvin House for the National Preservation Trust.
- Hutchinson and Diaz met with BJWSA and residents of the Toy Fields neighborhood to discuss the current sanitary sewer service plan.
- Solid Waste & Recycling contractor delivered 50 new trash carts and recycling bins for the past month totaling approximately 5,927 overall.
- Public Works team has worked on and closed out approximately 25 Work Request issues over the past month.
- Staff continues to water the relocated and planted trees at Oyster Factory Park and Eagle's Field. Hand watering the new sod at DuBois Park and the newly installed plant material located at the Town entry sign on Burnt Church Road.
- Public Works displayed Christmas decorations throughout Old Town and Buckwalter Place.
- Wiggins has been coordinating the repairs to DuBois Park Pavilion, including the original contractor, structural engineer, and the insurance company.
- Wiggins continues to work with Wildfire Camera Network Representative and Electrician on the 25 locations of the Town's new camera system.
- Wiggins and Olson reviewed the condition of Town Hall, including Council Chambers, and created a list of repairs and improvements.
- Public Works prepared the Law Enforcement Center for the CALEA inspection.
- The Town of Bluffton Christmas Parade is December 6, 2014. Please join us in aiding with the Parade.

Attachments:

- 1. May River Update***
- 2. SCDHEC Shellfish Monitoring Data for the May River**
- 3. Transportation Update***
- 4. May River Road Streetscape (Final Phase) Update***

**** Attachments noted above include the latest updates in bold and italic font.***

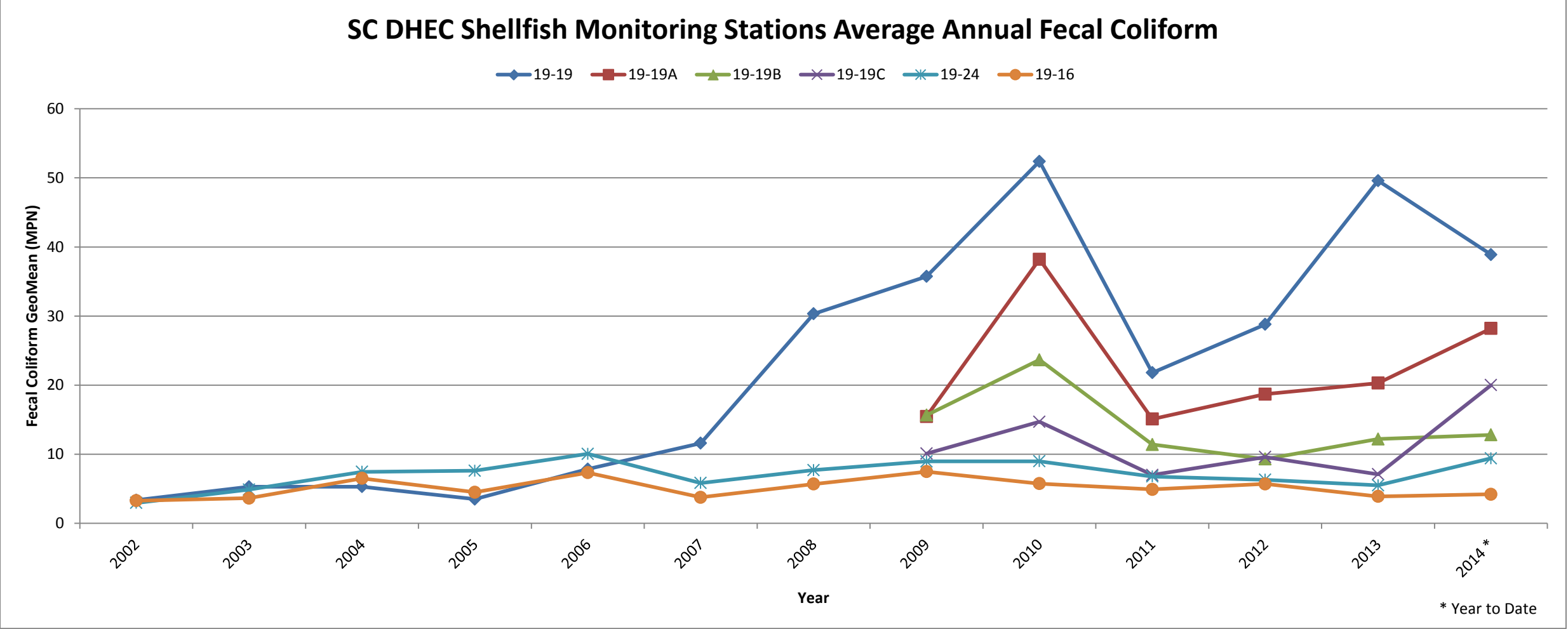
May River Update November 25, 2014

Attachment 1

ACTIVITY	STATUS
May River Retrofit Projects (Hampton Hall & Hampton Lakes)	Staff met with Hampton Hall to update project status, discuss easement acquisition, answer any questions, and discuss a path forward.
May River Watershed Model	Preliminary 2002 Palmetto Bluff Duck Pond Drainage area watershed model complete. Completed New Riverside BMP model for comparison to field observations. <i>176 additional nodes and conveyances have been field collected in the month of November.</i>
May River 319 Grant - Phase I May River Watershed Pilot Project	Weekly site visits and water quality testing ongoing.
May River 319 Grant - Phase II	Request for Proposals for irrigation design is being drafted. Baseline data collection ongoing. <i>Request for Proposals for retrofit project has been released and is open to offerors.</i>
May River Watershed Action Plan Wetlands Restoration: Conceptual Phase	<i>Wetland delineation report has been received by Staff. Adjacent and offsite survey work has been completed. Survey work is ongoing for site characteristics and topography. Staff is working with consultant on work authorization for wetland and subsurface hydrology evaluation, which is the next phase of data collection.</i>
Additional Funding Opportunities	Obtained a \$200,000 appropriation from SCDHEC in support of the Town's water quality improvement projects. <i>Staff submitted for a \$4,500 Palmetto Pride Community Pride grant in support of annual May River and Beach Sweep/River Sweep clean-up events and litter control on Town Capital Improvement Projects.</i>

	19-19				19-19A				19-19B				19-19C				19-16				19-24			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	70.0	79.0	7.8		17.0	79.0	7.8		7.8	49.0	7.8		13.0	49.0	7.8		4.5	11.0	4.5		NS	33.0	1.8	
November	23.0	13.0	11.0		23.0	2.0	17.0		33.0	2.0	17.0		33.0	4.5	2.0		11.0	1.7	13.0		17.0	2.0	13.0	
October	49.0	110.0	13.0	17.0	17.0	49.0	13.0	7.8	17.0	6.8	70.0	4.5	23.0	26.0	13.0	6.8	17.0	11.0	4.5	2.0	4.5	23.0	2.0	4.5
September	130.0	33.0	33.0	27.0	110.0	33.0	17.0	17.0	70.0	13.0	7.8	2.0	13.0	7.8	13	4.5	23.0	2.0	6.8	2.0	13.0	9.3	7.8	4.5
August	49.0	49.0	11.0	49.0	13.0	23.0	2.0	49.0	17.0	4.5	23	33.0	7.8	33.0	9.2	70.0	4.5	4.5	1.8	17.0	7.8	2.0	9.2	46.0
July	NS	23.0	6.8	17.0	11.0	13.0	4.5	7.8	7.8	13.0	7.8	1.8	1.8	2.0	2.0	1.8	1.8	4.5	1.7	1.8	4.5	2.0	1.7	2.0
June	13.0	NS	1600.0	NS	23.0	NS	920.0	NS	4.5	NS	1.7	NS	4.5	NS	1.7	NS	7.8	NS	7.8	NS	13.0	NS	11.0	NS
May	13.0	11.0	46.0	33.0	13.0	17.0	13.0	33.0	17.0	13.0	7.8	9.2	4.5	11.0	7.8	49.0	2.0	7.8	2.0	2.0	2.0	1.7	4.0	7.8
April	17.0	17.0	1700.0	130.0	4.0	33.0	40.0	79.0	4.5	13.0	2.0	170.0	4.5	4.0	1.7	240.0	2.0	13.0	2.0	13.0	17.0	23.0	1.7	23.0
March	4.0	49.0	79.0	23.0	33.0	33.0	49.0	33.0	4.5	33.0	17.0	11.0	1.8	23.0	22.0	13.0	2.0	7.8	2.0	4.5	4.5	AS	22.0	6.8
February	46.0	49.0	350.0	110.0	17.0	17.0	46.0	33.0	17.0	7.8	79.0	79.0	23.0	4.5	49.0	79.0	11.0	17	7.8	13.0	11.0	17	17.0	33.0
January	2.0	6.1	23.0	49.0	2.0	4.0	17.0	79.0	4.5	2.0	23.0	13.0	2.0	4.5	13.0	11.0	1.8	1.7	4.5	2.0	1.8	2.0	4.5	7.8
Additional Samples																						7.8		
Additional Samples																						6.8		
Average Annual GeoMean	21.8	28.8	49.6	38.9	15.1	18.7	20.3	28.2	11.4	9.3	12.2	12.8	7.0	9.6	7.1	20.0	4.9	5.7	3.9	4.2	6.8	6.1	5.5	9.4

NS = No Sample
AS = Additional Samples



**Transportation Update
November 25, 2014**

Attachment 3

ACTIVITY	STATUS
US 278	Work completed.
SC 170	A portion on the new road construction has opened to traffic. <i>Traffic control (accident rate) is somewhat improved, but crashes are higher than prior to lane opening. Work continues slowly.</i>
Bluffton Parkway Phase 5A	Work continues on the flyover. No additional issues with construction have become apparent. Project is on time.
Buck Island/46 Intersection	Signal is fully operational. <i>SCDOT has assessed citizen's concerns at driveways near the intersection. SCDOT will move the stop bar to the west beyond the driveway if the property owner will sign that driveway as an entrance only. A separate drive needs to be constructed between this driveway and the next closest driveway to the west (on the same parcel) to allow access for drivers to exit the western driveway.</i>
Metropolitan Planning Organization (MPO)	US 17 funding remains a major topic of concern. <i>At the recent LCOG meeting, SCDOT presented a new funding scenario which postpones construction until 2018 and shifts an additional \$4 M to the MPO. The funding scenario now results in no available funds until 2022 assuming GDOT will pay for half the bridge.</i>

**Transportation Update
November 25, 2014**

Attachment 3

ACTIVITY	STATUS
Transportation Model	<p>Updates to the model were discussed between LCOG, the consultants, Beaufort County staff and Bluffton staff on scenarios for growth, etc. <i>SCDOT has determined that the additional work on the model will have to be bid under a new contract. Additional work on the model will have to wait until this procurement has occurred.</i></p>
Masters Way/Crossings Intersection	<p>While measures undertaken by the County on the intersection and by the Town on the roadway and speed posting, future development in the area may influence a final outcome for traffic control at this intersection. Traffic Engineering in Beaufort County has indicated a signal may be acceptable with warrants.</p>
Davis Road	<p>The school district has designed a parallel road to Davis Road from about Kent Estates to Hampton Parkway to serve the school. Staff continues working with National HealthCare Corporation on potential improvements for Davis Road or portions thereof.</p>
Bluffton Parkway Phase 5B	<p>Revisions are underway on draft State Infrastructure Bank application. Letters of support have been requested from neighboring municipalities and legislators. Staff is working with surveyor to get ROW platted. <i>Development of final application is underway.</i></p>

Lisa Sulka
Mayor

Ted Huffman
Mayor Pro Tempore

Anthony Barrett
Town Manager



Council Members

Fred Hamilton
Karen Lavery
Larry Toomer

Sandra Lunceford
Town Clerk

To: Mayor and Council

From: Karen Jarrett, Transportation Project Manager

Re: May River Road Streetscape (Final Phase) Update

Date: November 25, 2014

Streetscape design considerations were discussed with Council at the first quarterly work session. Staff was directed to use the 10 foot parking spaces required by SCDOT and to omit these spaces in areas where trees may be impacted, providing bumpouts instead. The sidewalk in front of Parkers will be omitted to minimize costs and confusion at Buck Island. It will be constructed in the future with residents accessing Buck Island Road and May River Road along existing sidewalks on Jennifer Court.

Irrigation was also discussed and will be included in the landscape plan for streetscape. Every effort will also be made to work with the property owners to obtain additional space for landscaping. On the north side of May River Road, where moving the sidewalk away from the drive lane reduces room for landscaping at existing businesses, additional landscape easements will be sought.

Staff will be working closely with SCDOT and the consultant to make sure these changes are approved and incorporated into the design. Efforts to expedite the changes and approvals are ongoing.

Attachments:

- *Local Public Agency Process Flowchart with Current Step Identification*

*Theodore D. Washington Municipal Building
20 Bridge Street P.O. Box 386 Bluffton, South Carolina 29910
Telephone (843) 706-4500 Fax (843) 757-6720
www.townofbluffton.sc.gov*

Local Public Agency Process

PROGRAM PHASE

LPA Request to Manage Project

Evaluation of LPA Qualifications

Identify Funding

Field Review & Scope Development

Development of Participation Agreement

Program Project (PAR)

Execute Participation Agreement

Invoices & Payments

DEVELOPMENT PHASE

Advertisement & Award of Const. Contracts

Encroachment Permit

Plans, Specs., & Estimate Pkg. (PS&E) Approval

Right of Way Certification

Environmental Review (NEPA)

Plan Development

Plan review must be approved prior to ROW acquisition

Staff met with SCDOT to discuss plan revisions and ROW acquisition. Plan revisions still required.

Staff met with Council to verify direction after SCDOT modifications

CONSTRUCTION PHASE

Construction

Inspection, Testing, & Material Certification

Final Inspection

Final Material Certification

Final Acceptance

CLOSE OUT PHASE

LPA Project Evaluation

Project Documentation & Closure