



Beaufort County Stormwater Utility
120 Shanklin Road
Beaufort, South Carolina 29906
Voice (843) 255-2805

July 2022

Stormwater Utility Board Packet – June 2022

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Beaufort County Stormwater Management Utility Board (SWMU Board) Meeting Minutes

June 15th, 2022 at 2:00 p.m.
Beaufort County Council Chambers

Board Members

Present

James Clark
Allyn Schneider
Steven Andrews
Marc Feinberg
Ron Buchanan
Patrick Mitchell
Dennis Ross

Absent

James Fargher

Ex-Officio Members

Present

Bill Baugher
Van Willis

Absent

Nate Farrow
Jeff Netzinger

Beaufort County Staff

Katie Herrera
Neil Desai
Julianna Corbin
Jon Spencer

Visitors

Alice Howard, County Council
Ellen Sturup Comeau
Danielle Mickel
Jacob Terry

1. Meeting called to order – Mr. Mark Feinberg at 2:00 pm

- A. Agenda – Approved
- B. Approval of Minutes – Approved.

2. Introductions – Completed.

- ✓ Mr. Marc Feinberg made a public statement thanking Mrs. Alice Howard for her successful primary bid to the Beaufort County Council Stormwater efforts for many years.

3. Public Comment(s) – None.

4. Special Presentations – None.

5. Reports

A. Utility Update – Mrs. Katie Herrera

- ✓ Staff is working on easement requests and meets monthly to review status of each as well as any new easements coming in. Edits to the Extent Service and Level of Service Documents pending Council guidance prior to finalization.
- ✓ Staff continues to support other municipalities in their efforts to move forward with adoption.
- ✓ Amendments to manual and ordinance were approved and are effective as of February 1st, 2022.

- ✓ Katie Herrera and Kim Jones presented the implementation efforts of SoLoCo at SCASM on June 2nd.
 - ✓ Upcoming SoLoCo presentations – StormCon (September – MD), SESWA (October – HHI)
 - ✓ Delinquent accounts; still awaiting copies.
- B. Monitoring Update – Mrs. Danielle Mickel**
- ✓ Mrs. Danielle Mickel addressed the water lab monitoring.
- C. Stormwater Implementation Committee (SWIC) Report – Mrs. Katie Herrera**
- ✓ Meeting on Friday, June 17, 2022 with Stormwater Partners and will continue to have routine bi-annual meetings.
- D. Stormwater Related Projects – Ms. Julianna Corbin**
- ✓ J. Bragg Consulting Inc. has been approved by County Council. County staff working to execute contract to begin work.
 - ✓ Tuxedo Park Pond Dredging- Request for Proposals document in review by Purchasing Department prior to being posted.
 - ✓ Huspah Court North- Design work complete and bid documents are being prepared.
- E. Professional Contracts Report – Ms. Julianna Corbin**
- ✓ Brewer Memorial – Construction on site continues and will wrap up at the end of the month. Major milestones to completion include pouring pervious and traditional concrete in parking areas, striping, and landscaping.
 - ✓ Contractor is scheduling work to be done to the catch basin. Project will be complete at the end of this month as it is not budgeted for in FY23.
 - ✓ Battery Creek Pond: Woolpert analyzed the Battery Creek Burton Hill M2 pond for potential deficiencies that are causing excess trash to end up in the overflow ditch that leads to the marshes of Battery Creek, bypassing the trash rack. The standard grate trash rack ordered to replace the existing rack has been delivered and will be installed soon.
 - ✓ St. Helena Drainage Study: Staff have seen initial modeling information. Request for more information needed to model future conditions.
 - ✓ Arthur Horne Park 319 Grant Funding – Grant applied for: Staff received word from NRCS on May 16th that the project was granted funding for a Preliminary Investigation Feasibility Report (PIFR)—the first step in a multi-year funding opportunity. Staff spoke with NRCS State Conservation Engineer on May 19th to learn more about the opportunity and look forward to pursuing this.
 - ✓ Lady’s Island Drainage Study Phase I – QA/QC continues, model to be constructed soon.
- F. Regional Coordination – Katie Herrera**
- ✓ Mossy Oaks Task Force – County working with USCB on water quality monitoring efforts.
- G. Municipal Reports**
- ✓ Town of Bluffton – Mr. Bill Baugher
 - Mr. Bill Baugher, introduces Andrea Marino, the new MS4 Program Manager.
 - Funding was approved for Bridge St. has been awarded.
 - Old Town Bluffton drainage study is underway.
 - May River Water Shed action committee is meeting on Thursday, June 16, 2022, to get those projects underway.
 - ✓ Town of Port Royal – Mr. Van Willis
 - Did updates to the hydrograph that shares the same basin as the Cypress Wetlands.
 - Massacre Lane, working to identify drainage issues.

- ✓ Town of Hilton Head – Mr. Jacob Terry
 - Hilton Head budget has been approved.
 - Publishing the new Stormwater Utility Online Dashboard

H. MS4 Report – Mrs. Katie Herrera

- ✓ Plan Review
- ✓ Stormwater Permits
 - Many permits issued and a decrease in project closing out.
- ✓ Monthly Inspection Summary
 - Averaging over 700 inspections.
 - Looking forward to new hiring senior inspector.
 - Coordinating with the Town of Bluffton and our staff we successfully mitigated IDD issues.
- ✓ Public Education – Mrs. Ellen Comeau
 - Pet waste plunge
 - Attended the National Association of Natural Resources Extension Professionals Conference in Kalamazoo, MI were discussion of stormwater health between Georgia, Florida and the South Carolina extensions agents.
 - Halfway through the Flooding 411 Webinar series—a statewide-program that focuses on coastal flooding. Have over 200 registered.
 - Featured in Bluffton Sun article—discussing rainwater harvesting, testing, and fertilizing native plants.
- ✓ MS4 Statewide General permit – Katie Herrera
 - Executed the quarterly Association of Stormwater Manager’s Meeting and there were no updates due to non-participation.

I. Staff Update

- ✓ Continue to hire for vacant positions:
 - Hired Mr. Riley Harriet as new foreman in infrastructure.
- ✓ One of our stormwater inspectors and one of our infrastructure technicians received their Post Construction BMP Inspector Certifications.
 - Scott Youmans and Judah Wood both scored over 90 percent.
- ✓ Mitch York received his CDL permit.

J. Maintenance Report

- ✓ Several major projects and minor projects.

6. Liaison Report – Beaufort County Council – Alice Howard

Highlights

7. Unfinished Business – None

8. New Business – Marc Feinberg

- ✓ Welcomes Mr. Dennis Ross as the newest member of the Stormwater Utility Board.
- ✓ Mr. March Feinberg and Mrs. Katie Herrera present the Scott Liggett Service Award to Mr. Allyn Schneider for more than 16 years of serving on the Stormwater Utility Board.
- ✓ Mr. Patrick Mitchell has agreed to be the next Vice Chairman of the Stormwater Utility Board.
- ✓ Requesting publishing of the remaining meetings for 2022 to be sent out to the members.

9. No Public Comment

10. Meeting Adjourned



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June 2022

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

1. Southern Lowcountry Regional Board (SoLoCo)
 - a) The current schedule for completion and finalization on the document and activities of Center for Watershed Protection (CWP) is as follows:
2. Regionalization
 - a) Staff continues to support coordination on permitting standards. Scheduling a meeting with the technical subcommittee should be early May.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
 - c) Amendments to manual and ordinance were approved and are effective as of February 1st, 2022.
 - d) Upcoming SoLoCo presentations – StormCon (September – MD), SESWA (October – HHI)
3. Special presentation suggestions –
 - Suggestions for Future Meetings
 - Research performed by Dr. Montie – Summer 2022
 - Open House – Evergreen Regional Pond – Fall 2022
 - Mike Johnson – CP&P Pipe
 - Dr. Warren Lab update – Fall 2022
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below.
5. Delinquent accounts – Phase I Investigations with Gentry Locke Attorneys (looking at data, laws, ordinances, synopsis of case law) to provide recommendations and likely outcomes of either negotiations or litigation.
 - IGA amendments for the Town of Port Royal have been approved. At time of report, still awaiting copies.

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6. Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30th, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
 - a) Beaufort County – Received.
 - b) Town of Hilton Head Island – Received.
 - c) Town of Bluffton – Received.
 - d) Town of Port Royal – Not received.
 - e) City of Beaufort – Not Received.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
 - i. No update at the time of report.

Stormwater Implementation Committee (SWIC) Report

1. No update at the time of report.

Stormwater Related Projects

1. Easements – Staff is working on easement requests and meets monthly to review status of each as well as any new easements coming in. Edits to the Extent of Service and Level of Service documents pending Council guidance prior to finalization.
2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Shell Point Community – J. Bragg Consulting Inc has been approved by County Council. County staff working to execute contract to begin work. The notice to proceed will be issued following receipt of a fully executed contract. Staff continues to work with our Right of Way Manager to work with homeowners in necessary easement areas.
3. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – County staff working with property owner to continue discussions of easement obtainment. Staff sent a final letter to the property owner in late June.
4. Graves Property / Pepper Hall Public / private partnership – Construction continues on site
5. Whitehall property purchase – Construction continues on City property.
6. Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – No update at this time
7. Tuxedo Park Pond Dredging- Bid opportunity closes on July 18th
8. Huspah Court North- Bid opportunity closes on July 22nd
9. Bessie’s Lane- Similar project scope to Huspah Court North. In house designs are being finalized and bid documents will be sent for review upon finalization of construction plans.

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10. Arthur Horne Park- County staff met with the engineering team doing the the Preliminary Investigatory Feasibility Report (PIFR) and our Natural Resources Conservation Service (NRCS) representative on June 23rd. Staff provided background information on the park as well as the surrounding watershed characteristics. It became clear through our discussion their focus is addressing water quality issues within Battery Creek. There are 8 components of the PL-566 law that allows NRCS to fund projects, and the more components you meet, the more likely you are to receive funding. This project meets at least 4 of these criteria. There may be opportunities to do additional projects within the area as well. The PIFR is being funded through NRCS at no expense to the County.

Professional Contracts Report

1. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews Engineering \$560,490, Const. est. \$5,512,900)
 - a) Brewer Memorial – Construction is wrapping up at time of report. Final Closeout and as built process to begin immediately
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Concrete catch basin to be delivered on 7/11 and work to connect the catch basin to the pond will begin immediately after.
3. Stormwater engineering consulting services – Woolpert
 - a) Scope #1 – General Services – Anything relating to Stormwater as a catch all scope. Allocated Funds – \$15,000.00.
 - b) Scope #2 – Southern Lowcountry Design Manual Training – This was completed prior to June of this year. Training set up for in house staff as well as developers in the County. Allocated funds - \$30,000.00.
 - c) Scope #3 – Comprehensive program audit. Reviewing all components of the MS4 program, CIP list, Utility, asset management, etc. Allocated funds - \$105,000.00. Audit has been completed. Staff are making adjustments to program in accordance with recommendations of the audit.
 - d) Scope #4 – Tax Run and Utility assistance. In the event the County needed assistance with assessing SW Fees, we have them available on call. We will also look to have them QA/QC data from previous years. Allocated funds - \$29,900.00.
 - e) Scope #5 – Battery Creek Pond - Woolpert analyzed the Battery Creek Burton Hill M2 pond for potential deficiencies that are causing excess trash to end up in the overflow ditch that leads to the marshes of Battery Creek, bypassing the trash rack. The standard grate trash rack ordered to replace the existing rack has been delivered and will be installed soon.
 - f) Scope #6 – Turtle Lane drainage study. Continuously flooded property, Stormwater staff wanted to determine if it would be useful to purchase and put BMP in place. Determination was no BMP yet but could fit into larger study of Northern Lady’s Island. Allocated funds - \$10,000.00. Project Completed.
 - g) Scope #7 – NPDES SMS4 general permit assistance
 - h) Scope #8 – St. Helena Drainage Study. Final report received 6/30

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- i) Scope #9 – Arthur Horne Park 319 Grant Funding – Grant application submitted; decision expected in August
- j) Scope #10 – Lady’s Island Drainage Study Phase I – County staff received GIS data on 6/30

Regional Coordination

- 1. Mossy Oaks Task Force – County working with USCB on water quality monitoring efforts.

Municipal Reports

- 1. Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager and Brian Eber, MS4 Coordinator)
 - i. No information was available at time of report.
- 2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - i. [See attached Report.](#)
- 3. City of Beaufort (From Nate Farrow, Public Works Director)
 - i. No information was available at the time of this report.
- 4. Town of Port Royal (From Van Willis, Town Manager and Tony Maglione, consultant)
 - i. No information was available at the time of this report.

MS4 Report

- 1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
- 2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
- 3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
- 4. Weather Station Data – Report unavailable.
- 5. Public Education – [See attached report.](#)
- 6. Energov permitting software – Staff continues to work with IT and Energov staff on any issues that arise.
- 7. MS4 Statewide General permit – No update at this time.

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Staff Update

1. The Department continues to conduct interviews for all vacant positions in Stormwater.

TOWN COUNCIL



STAFF REPORT

Projects and Watershed Resilience Department

MEETING DATE:	July 12, 2022
SUBJECT:	Projects and Watershed Resilience Department Monthly Report
PROJECT MANAGER:	Kimberly Washok-Jones, Director of Projects and Watershed Resilience

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Notice to Proceed with construction was issued 7/1/2021.
- Construction of concrete sidewalks is complete. Crosswalk painting and cleanup remaining.
- **Next Steps**
 - Complete as-built drawings and request SCDOT inspection.
 - Obtain survey information regarding outfall along Shults Road.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 street lighting easement acquisition process is underway. One light in Palmetto Electric's service area has been mounted on an existing pole.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive waiting on final as-builts for DOT inspection.
- Phase 6B along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road: Engineering design for this final sidewalk phase is underway.
- **Next Steps**
 - Prepare and obtain streetlight easements and install lighting for Phase 5.
 - Obtain SCDOT Permit Closeout for Phase 6A sidewalks.
 - Complete Phase 6B design and permitting.
 - Construction of the remaining Simmons ville Road sidewalks and lighting to be completed in FY 2023.

3. Bridge Street Streetscape

- Phase 1 bid documents, permitting and easement acquisition are complete. Bids were received 3/24/22.
- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
- Town Council approved the construction contract at the 4/12/22 meeting.

- **Next Steps**
 - Execute contract with JS Construction.
 - Start construction in June.

- 4. Boundary Street Streetscape**
 - Surveying is complete and engineering design is underway.
 - Engineering Design is 40% complete.
 - **Next Steps**
 - Continue with Engineering Design and Permitting.

- 5. New River Linear Trail**
 - Surveying is complete.
 - Conceptual Master Plan is complete.
 - Executed PO with Barrier Engineering for Phase 1 Engineering.
 - **Next Steps**
 - Begin design for Phase 1 pathway (New River to Hwy 46).
 - Research grant opportunities to fund planning and construction of future trail improvements.
 - Determine availability for sewer, water and power to trail head/parking area.
 - Submit plans to Santee Cooper for cursory review.
 - Begin discussions with Heritage at New Riverside for easement near Hwy 46 overpass.

SEWER & WATER

- 1. Buck Island-Simmons ville Sewer (Phases 5A-5D)**
 - Construction has been halted on Phases 5A-D by BJWSA due to the contractor under-performing their job duties. Engineer has started closeout phase for what has been installed to date.
 - The engineer has provided BJWSA a draft of new construction documentation to complete the project.
 - **Next Steps**
 - Readvertise for bids to complete construction on Phase 5A-D anticipated by end of June 2022.
 - Start house connections after the main line is approved by SCDHEC.

- 2. Historic District Sewer Extension Phase 2 - Bridge Street**
 - Received SCDHEC permit to construct for original scope.
 - No contractors responded to the first construction solicitation. Working on a redesign option to avoid extremely long bore.
 - Received Quit Claim Deeds from all the property owners along the ghost road.
 - Obtained road ownership from SCDOT.

- **Next Steps**
 - Readvertise project for bid in conjunction with HD Sewer Phase 3.
- 3. Historic District Sewer Extension Phases 3 through 6 – Colcock, Lawrence, Green and Water Streets**
- Received initial design and reviewed with the engineer.
 - **Next Steps**
 - Submit Phase 3 for permitting to be bid with Phase 2.
 - Review design changes to drawings.
 - Obtain Quit Claim Deeds from all the property owners along the ghost roads.

HISTORIC DISTRICT IMPROVEMENTS

- 1. Boundary Street Lighting**
- Phase 2 photometric plans, encroachment permits and lighting agreements are complete and approved.
 - SCDOT and Dominion indicated poles must be installed on private property due to conflicts with sewer force main and communication utilities within the right of way. Easements must now be obtained to install Phase 2 lighting.
 - **Next Steps**
 - Coordinate conduit light installation in conjunction with streetscape design.
 - Obtain easements as needed for Phase 2 street lighting.
- 2. Historic District Streetscape and Drainage Improvements**
- Engineering design, landscape design, permitting and bidding have been completed for the drainage improvements at the AME Church. Construction is currently underway.
 - Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
 - Executed contract for engineering design services for the first phase of intersection/crosswalk ADA improvements.
 - **Next Steps**
 - Complete construction of AME Church rain garden.
 - Finalize ADA easements.
 - Prepare ADA RFP for bid.
- 3. Calhoun Street Streetscape**
- Surveying is complete and engineering design underway.
 - Preliminary evaluation and recommendations for existing storm outfall pipes are complete.
 - **Next Steps**
 - Obtain preliminary engineering plans in June and continue final design into FY 2023.
 - Easement acquisition is planned to begin in FY 2023.
 - Phased construction is planned to begin in FY 2024 pending budget approval.

4. Squire Pope Carriage House Preservation

- Construction documents are complete and submitted to SHPO for a courtesy review.
- ATAX funding was approved in March.
- Stabilization has been completed.
- **Next Steps**
 - Procure General Contractor for Rehabilitation pending FY 2023 budget approval.

PARK DEVELOPMENT**1. Oyster Factory Park**

- Design development drawings completed in May 2021.
- Engineering and landscape design of eastern parking area is underway.
- Received undiscovered grant in March for Phase 3 signage at Garvin/Garvey.
- **Next Steps**
 - Begin construction of parking area in July 2022.
 - Design of Phase 3 signage for Garvin/Garvey house underway. Signage and exhibits to be complete in November 2022.
 - Begin design of Oyster Factory Park cookout area in FY 2023.

2. Wright Family Park

- Completed installations of the palmetto logs, planters and interpretive signage.
- Palmetto Logs included in the Arbor Day celebration 4/29/22.
- **Next Steps**
 - Permanent sign frame materials are delayed, now expected 6/21/22.

3. Oscar Frazier Park

- Synthetic turf and power pedestals are complete.
- Prepared concept designs and estimating for Splash Pad.
- Replaced Sod at the Field of Dreams.
- **Next Steps**
 - Open Field of Dreams on 6/10/22.
 - Continue planning and design of FY 2023 improvements.

4. New Riverside Barn/Park

- A \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design of Phase 1 site plans are currently underway and moving forward with approvals and permitting.
- Construction documents for the restroom building are complete.
- Selected Architect for design of the Barn additions.
- **Next Steps**
 - Complete construction drawings, cost estimating and permitting of Phase 1 site development in June 2022.

- Start construction of Phase 1 site development in late-August.
- Continue architectural design of barn addition.
- Obtain proposals for Landscape/Hardscape Development for the Barn and Playground area.

5. **May River Road Pocket Park**

- Received 100% Construction Documents on 4/6/22.
- Submitted Public Project application.
- Bid received 4/28/22.
- Construction started in June and scheduled for completion in July.
- **Next Steps**
 - Town Council to approve Staff recommendation to name the park May River Road Pocket Park.
 - Order park identification sign.
 - Complete construction.

6. **Miscellaneous Park Improvements**

- Completed DuBois Park synthetic turf replacement.
- Completed concept design for Pritchard Pocket Park hardscape improvements.
- Bids solicitation on 6/2/22.
- **Next Steps**
 - Start construction of paver path in June.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. **Buckwalter Place Park Restroom**

- Design for the Buckwalter Park restroom is complete. Awaiting permits from agencies.
- **Next Steps**
 - Obtain permits for the utility extensions for the proposed Buckwalter Park Restroom.

2. **Town of Bluffton Housing Projects**

- **Next Steps**
 - Planning and design to begin upon completion of Joint Venture Agreement.
 - Assist with the preparation of comprehensive cost estimates for planning, design and construction for the various housing projects.
 - Execute Purchase Orders for survey and environmental site assessment work for the Town-owned Willow Run tract.

3. **Law Enforcement Center Facility Improvements**

- Initial scope of work of the parking and services yard is complete.
- Additional design services for challenge course and reflection plaza are underway.
- Bids received and contract issued for covered shed building.

- **Next Steps**
 - Punch list and BJWSA closeout documents complete.
 - Information Technology department coordinating upgrades to building security systems.
 - Complete plans for reflection plaza and obtain a change order to construct in June 2022.
 - Complete upfit of storage shed including insulation, HVAC and shelving.
 - Bid site development for temporary parking lot and challenge course.

- 4. Ghost Roads**
 - Surveying and easement exhibits are complete.
 - Bridge Street Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 95% complete. Staff is currently working with Lawrence, Lawton, Green Pope, Allen and Water Street property owners to obtain Quit Claim Deeds.
 - Staff continues to meet with property owners to raise awareness of the acquisition efforts and communicate next steps.
 - **Next Steps**
 - Continue meeting with property owners and obtaining Quit Claim Deeds.

- 5. Public Services Facility Improvements**
 - Installation of new plumbing and electric for the washer and dryer has been completed.
 - Fencing, flooring, canopies and HVAC replacement has been completed.

- 6. Rotary Community Center Facility Improvements**
 - Received quotes to replace the hardwood floor in the main area.
 - **Next Steps**
 - Complete floor replacement in August 2022.

- 7. Watershed Management Facility Improvements**
 - Received quotes to add flooring in additional offices. Add new storage shed.
 - **Next Steps**
 - Completed shed placement and flooring replacement.

- 8. Document Management**
 - RFP contract was awarded in March 2022.
 - **Next Steps:**
 - Electronic Document Management system is scheduled to Go Live in July.
 - Historical documents will be moved into the system in July and continue through FY 2024.

9. Network Infrastructure

- Replaced core switches at Town Hall and the Law Enforcement Center.
- Replaced two VMWare hosts for a more stable server environment.
- **Next Steps:**
 - Replace phone system to a more modern system.
 - Replacing two more VMWare hosts.
 - Migrate Munis and Energov systems to a hosted environment.

DIVISION/STAFF UPDATES

Project Management

Thirty-eight (38) CIP projects were approved with the FY 2022 budget. HD Sewer Phase 1 (Pritchard Street), BIS Phase 6A Sidewalks, LEC Parking and Service Yard Expansion, DuBois Park Synthetic Turf Replacement, Wright Park Restroom HVAC, Oscar Frazier Park FOD improvements, Safety Camera Replacements/Additions, and IT Server Upgrades have been completed so far in FY 2022. Goethe Shults Phase 2 and BIS Phase 5 Sewer are currently under construction and planned to be complete in the Summer of 2022. Boundary Street Lighting, and HD Sewer Phases 2 and 3, Bridge Street Streetscape, New Riverside Barn Park, May River Pocket Park and Oyster Factory Parking lot are expected to start construction this summer. The remaining CIP projects are still in the design phase and are planned to start construction in FY 2023.

Watershed Management

1. Sea Level Rise Task Force

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff attended the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance, a Coastal Resilience Overlay District, and county-wide sea level rise adaptation strategies.
- Information provided to Town Comprehensive Plan Update consultant team for inclusion in the state-required resiliency component. Town Comprehensive Plan Open House and Town Council Workshop were held 4/19/22.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.
 - Adoption of Comprehensive Plan Update by Town Council with new Resiliency chapter.

2. Joint Councils Meeting for Watershed Management Initiatives

- BJWSA developed their CIP list for FY 2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
- Following the Joint Councils Meeting with BJWSA, held on 2/25/20, staff from Beaufort County and Town of Bluffton met to discuss sewer extension scope and strategy on 2/27/20.

- Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. The last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is one-third cost-share, so the Town's portion would be approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.
 - Neither BJWSA nor Beaufort County have committed funds in FY 2021 to begin sewer extension.
 - Town Manager, Director of Engineering and staff met with BJWSA General Manager, Engineer and staff on 6/5/20 to discuss how to move the project forward.
 - The Town submitted a response on 12/18/21 and again on 1/25/22 to BJWSA's "call for projects" request that prioritizes May River Watershed sewer projects.
 - Staff drafted a letter for the Town Manager's review requesting Beaufort County commitment to cost-share Stoney Creek/Palmetto Bluff Road sewer project in the May River watershed.
 - Staff presented an update on current status at 4/20/21 Town Council Workshop.
 - Town Council sent a letter on 4/26/21 requesting Beaufort County Council consider funding in FY 2022 for sewer extension projects in the May River watershed in the County's jurisdiction.
 - Town Council and BJWSA sent a letter requesting Beaufort County Council partnership in sewer extension projects within the County's jurisdiction of the May River Watershed.
 - Received an email from Hank Amundson, Beaufort County Special Projects Director, on 4/12/22 informing the Town Manager that \$250,000 in ARPA – Good Neighbor Programs funds which the Town can use for sewer extension.
 - Staff is developing a scope of work and tentative schedule for review by project partners to create a Memorandum of Understanding for the Stoney Creek/Palmetto Bluff Road Sewer Extension project.
 - **Next Steps**
 - Staff has shared preliminary project scope with Beaufort County and BJWSA to begin partnership discussion.
- 3. SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit – Attachments 1 and 1a**
- 4. May River Watershed Action Plan Implementation Summary - Attachment 2**
- Staff increased sampling frequency and implemented additional monitoring sites and parameters in the May River headwaters based upon recommendations in the 2020 May River Watershed Action Plan Update and Model Report. Staff collected forty (40) water quality samples for indicator bacteria from the Bluffton Historic District and May River Model Report Study area on 6/13/22 and 6/15/22.
 - Staff is collecting intermittent flow data in conjunction with grab samples at monitoring sites in the May River Headwaters as recommended in the 2020 May

River Watershed Action Plan Update and Model Report. Staff is determining what monitoring sites are most critical due the length of time flow data collection requires.

- Staff has implemented continuous flow monitoring instruments in the Stoney Creek and Rose Dhu Creek subwatersheds. Water Environment Consultants has assessed the first six (6) months of data from continuous flow monitoring stations, weather stations, and intermittent flow stations. A formal report detailing the review process as well as siting and equipment recommendations for future data collection has been provided to Town staff. Watershed Management staff is reviewing the report.
- Staff is working with the USCB-MST Laboratory to assess the utility of fecal markers in regional watersheds, including the May River watershed as recommended in the 2020 May River Watershed Action Plan Update and Model Report.

5. **Municipal Separate Storm Sewer System (MS4) Program Update**

- Staff has updated the Town’s MS4 Stormwater Management Plan and supporting documentation. SCDHEC is currently in the process of developing a revised National Pollutant Discharge and Elimination (NPDES) Permit for Small MS4s and will re-issue to permittees, including the Town, in the future.

6. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**

- Jones presented “An Adaptive Management Case Study: Implementation of the May River Watershed Action Plan” at the national Universities Council on Water Research conference on 6/14/22.
- The May River Watershed Action Plan Advisory Committee meeting was held 6/23/22. **Attachment 3**
- Staff developed an MS4 direct mail postcard and has obtained cost estimates to print and mail. Staff mailed 255 to residents of the Bluffton Historic District. Staff printed 250 additional postcard copies and will distribute them at festivals and events. This effort assists the Town with meeting MS4 permit requirements.
- Staff attended the Lowcountry Stormwater Partners (LSP) MS4 Community Partners meeting on 6/17/22.

7. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**

- Stormwater Infrastructure Inventory Map - **Attachment 4a**
- *E. coli* Concentrations Trend Map - **Attachment 4b**
- Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
 - Town staff coordinates with the SC Department of Health and Environmental Control (SCDHEC) to pull MST samples concurrently with the state’s routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC conducted sampling 6/20/22. MST results are pending, and pertinent results will be communicated to Town Council, WAPAC, and Senior Staff. The human genetic marker was not identified at any SCDHEC Shellfish Station.
- Illicit Discharge Investigations – **Attachment 4e**

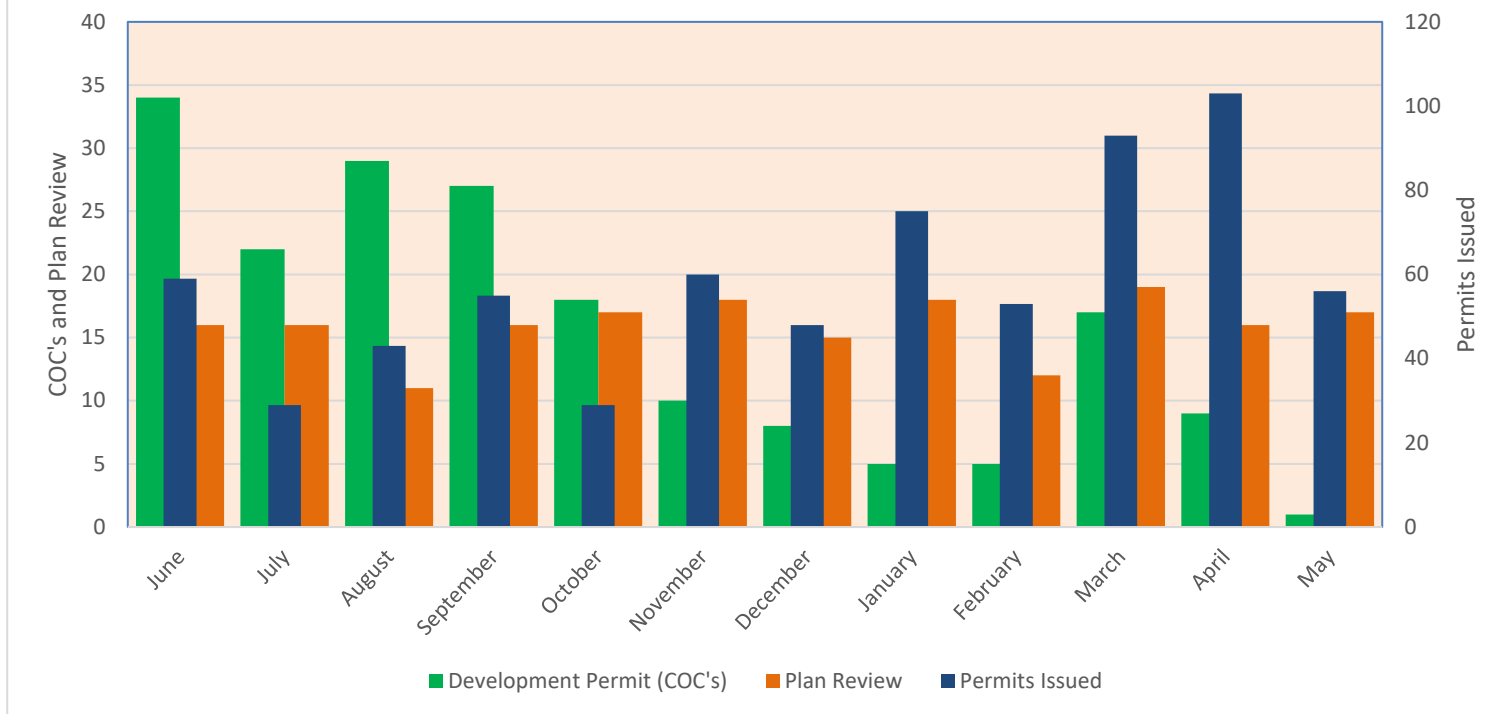
8. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
9. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
10. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Jones attended the Universities Council on Water Research conference 6/19-21/22.**MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
 - Public Services performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
 - Performed ditch inspections
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simmonsville roadside ditch (13,792 LF)
 - Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.
11. **Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
12. **Citizen Request for Watershed Management Services & Activities – Attachment 8**

Attachments

1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. May River Watershed Action Plan Implementation Summary*
3. MS4 Minimum Control Measures #1 and #2 – WAPAC Public Notice
4. MS4 Minimum Control Measure #3 – Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. *E. coli* Concentrations Trend Map
 - c. Microbial Source Tracking Trend Map – Human Source
 - d. Microbial Source Tracking Map – All Sources
 - e. Illicit Discharge Investigations
5. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
6. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
7. Citizen Drainage, Maintenance and Inspections Concerns Map
8. Citizen Request for Watershed Management Services and Activities Map
9. CIP Project Schedules

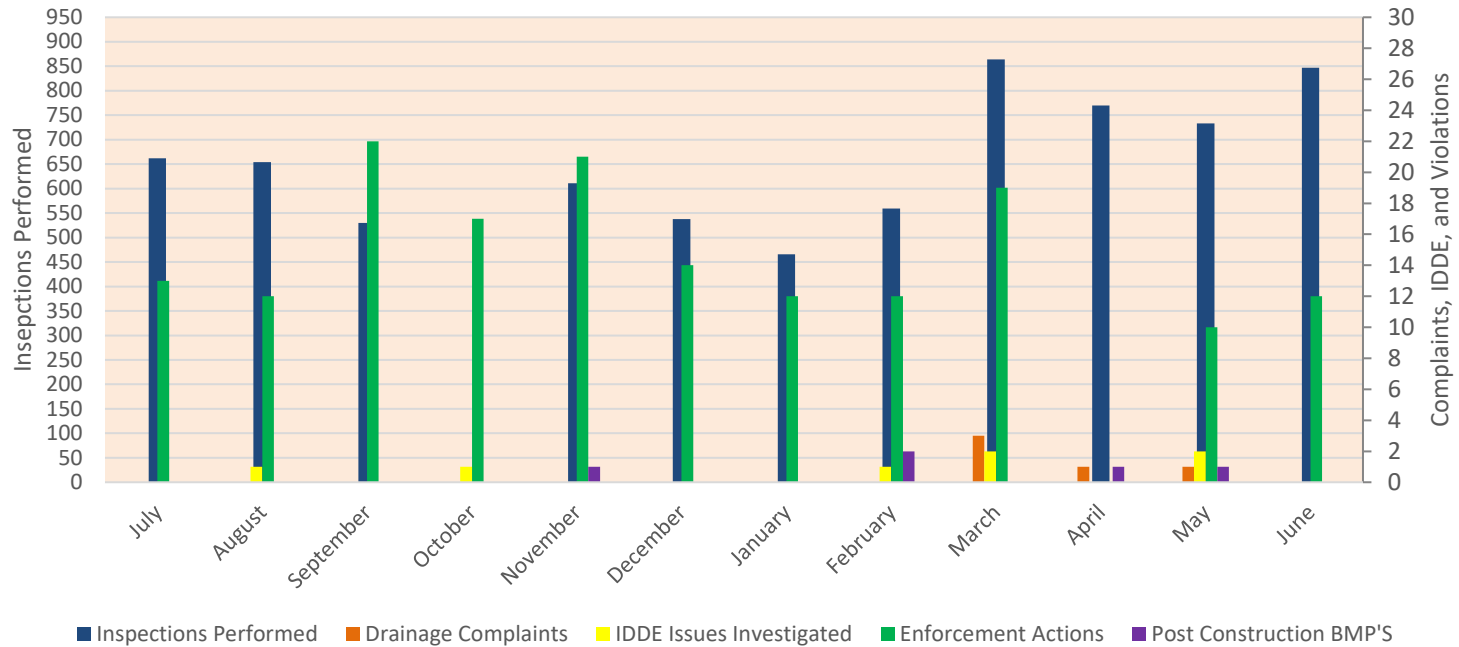
* Attachment noted above includes the latest updates in **bold** and *italic* font.

MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	June	July	August	September	October	November	December	January	February	March	April	May	Last 12 Months
Development Permit (COC's)	34	22	29	27	18	10	8	5	5	17	9	1	185
Plan Review	16	16	11	16	17	18	15	18	12	19	16	17	191
Permits Issued	59	29	43	55	29	60	48	75	53	93	103	56	215

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	July	August	September	October	November	December	January	February	March	April	May	June	Last 12 Months
Inspections Performed	662	654	530	323*	611	538	466	559	864	770	733	847	1846
Drainage Complaints	0	0	0	0	0	0	0	0	3	1	1	0	5
IDDE Issues Investigated	0	1	0	1	0	0	0	1	2	0	2	0	7
Enforcement Actions	13	12	22	17	21	14	12	12	19		10	12	142
Post Construction BMP'S	0	0	0	0	1	0	0	2	0	1	1	0	9



MEMORANDUM

Date: July 5, 2022

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

This report will cover two major projects and three minor or routine projects. The Project Summary Reports are attached.

Major Projects:

- **Shamrock Circle – Hilton Head Island (3):** This project improved 2,037 linear feet of drainage system. The scope of work included constructing 240 linear feet of channel, cleaning out 1,717 linear feet of roadside ditch and repairing (1) washout. Also installing 80 linear feet of roadside pipe and replacing (10) driveway pipes. Jetting (2) crossline pipes and (16) driveway pipes. Installed rip rap and hydroseeded for erosion control. The total cost was **\$89,027.98**.
- **Alljoy Area/Fairfax Street – Bluffton (4):** This project improved 733 linear feet of drainage system. The scope of work included cleaning out 661 linear feet of roadside ditch and installing 72 linear feet of roadside pipe. Hydroseeded for erosion control. The total cost was **\$27,513.01**.

Minor or Routine Projects:

- **Irongate Subdivision – Port Royal Island (9):** This project improved 1,659 linear feet of drainage system. The scope of work included cleaning out 250 linear feet of channel and 1,409 linear feet of roadside ditch. Also repairing (1) washout. The total cost was **\$8,559.78**.
- **Port Royal Island Vacuum Truck – Port Royal Island (6, 9):** This project improved 700 linear feet of drainage system. The scope of work included cleaning out (37) catch basins, jetting (17) crossline pipes, (22) driveway pipes and 700 linear feet of roadside pipe. The total cost was **\$11,763.76**.
- **St Helena Island Vacuum Truck – St Helena Island (8):** This project improved 80 linear feet of drainage system. The scope of work included cleaning out (8) catch basins, jetting (36) driveway pipes, (19) crossline pipes, (4) access pipes and 80 linear feet of channel pipe. The total cost was **\$15,240.20**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Shamrock Circle

Activity: Routine/Preventive Maintenance

Duration: 01/05/2021 - 07/20/2021

Narrative Description of Project:

Project improved 2,037 L.F. of drainage system. Constructed 240 L.F. of channel. Cleaned out 1,717 L.F. of roadside ditch and repaired (1) washout. Installed 80 L.F. of roadside pipe and replaced (10) driveway pipes. Jetted (2) crossline pipes and (16) driveway pipes. Installed rip rap and hydroseeded for erosion control.

2021-527 /Shamrock Circle	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	5.00	\$163.70	\$0.00	\$0.00	\$0.00	\$101.05	\$264.75
CCON / Channel - constructed	24.00	\$495.84	\$142.15	\$68.20	\$0.00	\$443.36	\$1,149.55
DLO / Ditch Layout	12.00	\$379.04	\$17.40	\$40.81	\$0.00	\$233.96	\$671.21
DPJT / Driveway Pipe - Jetted	76.00	\$1,634.52	\$1,159.96	\$279.78	\$0.00	\$1,011.44	\$4,085.70
DPREIN / Driveway Pipe - Reinstalled	24.00	\$495.84	\$120.68	\$1.82	\$0.00	\$443.36	\$1,061.70
DPRPL / Driveway Pipe - Replaced	220.00	\$4,479.60	\$934.30	\$4,909.64	\$0.00	\$3,093.28	\$13,416.82
DWR / Dewatered Road	40.00	\$824.88	\$144.02	\$61.04	\$0.00	\$549.20	\$1,579.14
HAUL / Hauling	366.50	\$8,389.68	\$6,756.77	\$5,937.58	\$0.00	\$6,947.44	\$28,031.47
HYDR / Hydroseeding	96.00	\$1,977.12	\$671.36	\$2,263.96	\$0.00	\$1,370.72	\$6,283.16
INSPRD / Inspection - Road	4.00	\$166.88	\$17.40	\$25.97	\$0.00	\$0.00	\$210.25
NONPRO / Non-Professional Services	0.00	\$0.00	\$0.00	\$0.00	\$8,800.00	\$0.00	\$8,800.00
PP / Project Preparation	29.00	\$657.02	\$47.67	\$58.89	\$0.00	\$517.77	\$1,281.35
RDREC / Roadside ditch - reconstructed	32.00	\$651.76	\$155.48	\$1,417.21	\$0.00	\$443.36	\$2,667.81
RPWO / Repaired Washout	12.00	\$353.16	\$17.40	\$15.18	\$0.00	\$235.96	\$621.70
RRI / Rip Rap - Installed	88.00	\$1,798.96	\$429.48	\$366.22	\$0.00	\$1,021.12	\$3,615.78
RSDCL / Roadside Ditch - Cleanout	280.00	\$5,824.40	\$1,282.09	\$507.23	\$0.00	\$4,010.24	\$11,623.96



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Shamrock Circle

Activity: Routine/Preventive Maintenance

Duration: 01/05/2021 - 07/20/2021

2021-527 /Shamrock Circle (continued)

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
SPD / Spreading Dirt	16.00	\$327.36	\$98.40	\$21.98	\$0.00	\$337.52	\$785.26
UTLOC / Utility locates	2.00	\$49.40	\$0.00	\$0.00	\$0.00	\$26.46	\$75.86
WSDR / Workshelf - Dressed	72.00	\$1,482.48	\$309.61	\$54.50	\$0.00	\$955.92	\$2,802.51
Grand Total	1,398.50	\$30,151.64	\$12,304.17	\$16,030.01	\$8,800.00	\$21,742.16	\$89,027.98

During

After

(No Picture Available)





Project: Shamrock Circle
Map #1

Activity: Routine/
Preventive
Maintenance














Project #:
2021-527

Township/SW Dist:
Hilton Head Island/3

Completed:
March 2021

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

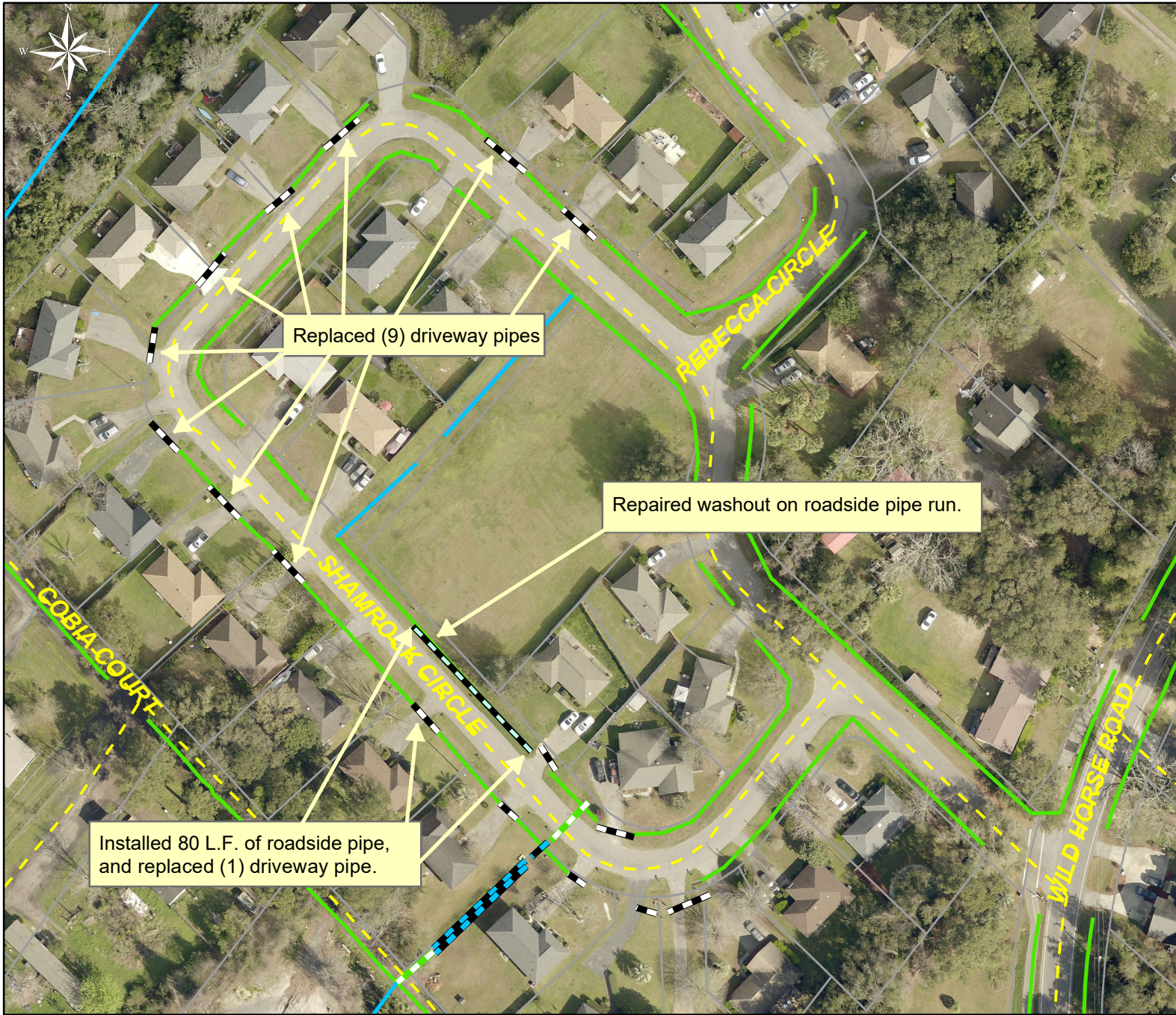
0 15 30 60 90 120
Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 07/05/22

File: C:\project summaries map\Shamrock Circle Map#1_2021-527



Project: Shamrock Circle
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2021-527

Township/SW Dist:
Hilton Head Island/3

Completed:
March 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

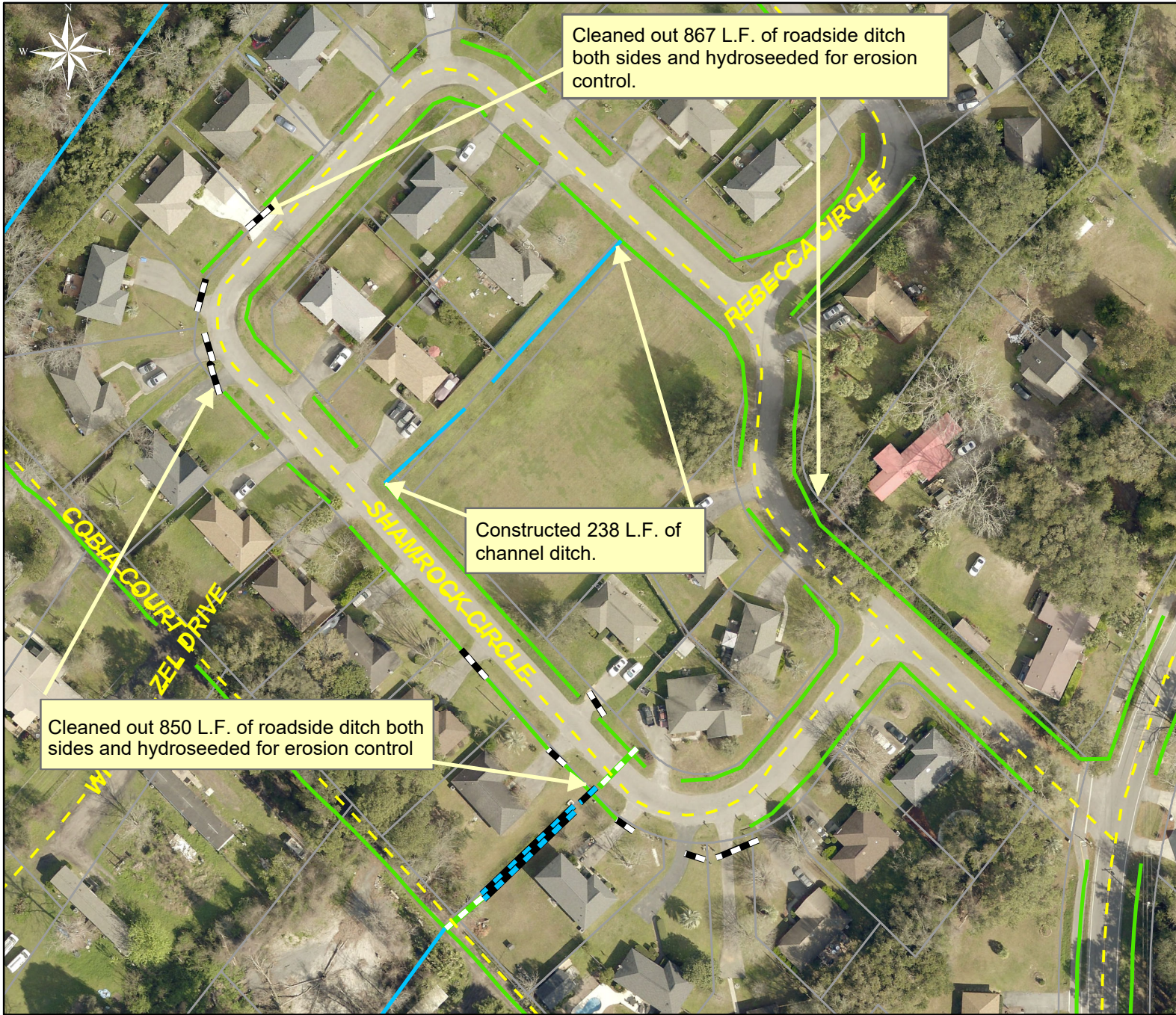
0 15 30 60 90 120
Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 07/05/22

File: C:\project summaries map\Shamrock Circle Map#2-2021-527



Project:
Shamrock Circle
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2021-527

Township/SW Dist:
Hilton Head Island/3

Completed:
March 2021

Legend

Drainage Type

- Access Pipe
- Bleeder Pipe
- Channel Pipe
- Channel
- Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- Road Pipe
- Roadside
- Roadside Pipe

0 15 30 60 90 120
Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 07/05/22

File: C:\project summaries map\Shamrock Circle Map#3_2021-527



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Alljoy Area - Fairfax Street

Activity: Routine/Preventive Maintenance

Duration: 03/10/2021 - 07/12/2021

Narrative Description of Project:

Project improved 733 L.F. of drainage system. Cleaned out 661 L.F. of roadside ditch. Installed 72 L.F. of roadside pipe and hydroseeded for erosion control.

2021-534 / Alljoy Area

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.50	\$81.85	\$0.00	\$0.00	\$0.00	\$50.53	\$132.38
DEBREM / Debris Removal - Jobsite	88.00	\$1,873.28	\$371.28	\$140.40	\$0.00	\$1,157.52	\$3,542.48
DPINS / Driveway Pipe - Installed	40.00	\$874.56	\$258.37	\$922.54	\$0.00	\$511.20	\$2,566.67
HAUL / Hauling	143.00	\$3,921.33	\$2,725.58	\$3,547.30	\$0.00	\$2,924.26	\$13,118.47
HYDR / Hydroseeding	16.00	\$350.12	\$55.21	\$66.75	\$0.00	\$188.40	\$660.48
RPWO / Repaired Washout	40.00	\$842.48	\$123.56	\$91.20	\$0.00	\$390.20	\$1,447.44
RSDCL / Roadside Ditch - Cleanout	104.00	\$2,206.40	\$312.11	\$160.80	\$0.00	\$1,514.00	\$4,193.31
UC / Utility Coordination	1.00	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
UTLOC / Utility locates	4.00	\$98.80	\$0.00	\$0.00	\$0.00	\$52.92	\$151.72
WSDR / Workshelf - Dressed	40.00	\$874.56	\$128.49	\$147.88	\$0.00	\$511.20	\$1,662.13
Grand Total	478.50	\$11,148.08	\$3,974.60	\$5,076.87	\$0.00	\$7,313.45	\$27,513.01

(Before)



(During)



(After)





Project: Alljoy
 Area - FairFax
 Street
 Map#1

Activity: Routine/
 Preventive
 Maintenance














Project #:
 2021-534

Township/SW Dist:
 Bluffton/4

Completed:
 July 2021

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 15 30 60 90 120
 Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 02/02/22

File: C:\project summaries map\FairFax Rd Map#1_2021-534

Project: Alljoy Area
- Fairfax Street
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2021-534














Township/SW Dist:
Bluffton/4

Completed:
July 2021



Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 20 40 80 120 160
Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 02/02/22

File: C:\project summaries map\Alljoy Rd. and Fairfax Rd. Map#2_2022-534



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Irongate Subdivision - Blacksmith Circle

Activity: Routine/Preventive Maintenance

Duration: 11/23/2021 - 01/25/2022

Narrative Description of Project:

Project improved 1,659 L.F. of drainage system. Cleaned out 250 L.F. of channel and 1,409 L.F. of roadside ditch. Repaired (1) washout.

2022-526 / Irongate Subdivision - Blacksmith Circle	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
ASBUILT / Asbuilt - Project	6.00	\$140.00	\$8.70	\$15.78	\$0.00	\$107.00	\$271.48
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
CCO / Channel - cleaned out	16.00	\$394.62	\$95.62	\$20.96	\$0.00	\$320.72	\$831.92
CLJS / Cleaned up jobsite	12.00	\$290.15	\$17.40	\$18.34	\$0.00	\$227.56	\$553.45
HAUL / Hauling	30.00	\$898.62	\$1,313.66	\$102.18	\$0.00	\$588.72	\$2,903.18
RPWO / Repaired Washout	16.00	\$399.60	\$34.80	\$45.92	\$0.00	\$270.96	\$751.28
RSDCL / Roadside Ditch - Cleanout	55.00	\$1,572.29	\$376.57	\$169.90	\$0.00	\$1,084.27	\$3,203.03
UTLOC / Utility locates	0.50	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
Grand Total	136.00	\$3,724.00	\$1,846.75	\$373.08	\$0.00	\$2,615.95	\$8,559.78

(Before)



(During)



(After)





Project: Irongate S/D
Blacksmith Circle

Activity: Routine/
Preventive
Maintenance

Project #:
2022-526

Township/SW Dist:
Port Royal Island/9

Completed:
January 2022

Legend	
Drainage Type	
Access Pipe	
Bleeder Pipe	
Channel Pipe	
Channel	
Stream	
Crossline Pipe	
Driveway Pipe	
Lateral	
Lateral Pipe	
River	
Road Pipe	
Roadside	
Roadside Pipe	

0 87.5 175 350 525 700
Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Irongate S/D Blacksmith Circle_2022-526



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Vacuum Truck
 Gray's Hill Acre, Smalls Hills Road, Jonesfield Road, Murray Drive, Harold Drive,
 Blackburn Pierce Drive, Ard Road, Campbell Road, Isaiah Lane, Ribaut Road, Rivers
 Hill Road, Green Pond Road, Clydesdale Circle, Polite Drive, Johnny Morral Circle.

Activity: Routine/Preventive Maintenance
Duration: 07/01/2020-06/21/2021

Narrative Description of Project:

Project Improved 700 LF of drainage system. Cleaned out (37) catch basins, jetted (17) crossline pipes, (22) driveway pipes and 700 L.F. of roadside pipe.

2021-306 / Port Royal Island Vacuum Truck

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	4.00	\$114.88	\$0.00	\$0.00	\$0.00	\$66.88	\$181.76
CBCO / Catch basin - clean out	76.00	\$1,770.76	\$685.64	\$231.17	\$0.00	\$1,454.72	\$4,142.29
CLPJT / Crossline Pipe - Jetted	56.00	\$1,287.69	\$628.46	\$165.16	\$0.00	\$1,005.01	\$3,086.32
DPJT / Driveway Pipe - Jetted	75.00	\$1,680.67	\$1,274.09	\$268.01	\$0.00	\$1,130.62	\$4,353.39
Grand Total	211.00	\$4,854.00	\$2,588.19	\$664.34	\$0.00	\$3,657.23	\$11,763.76

Before

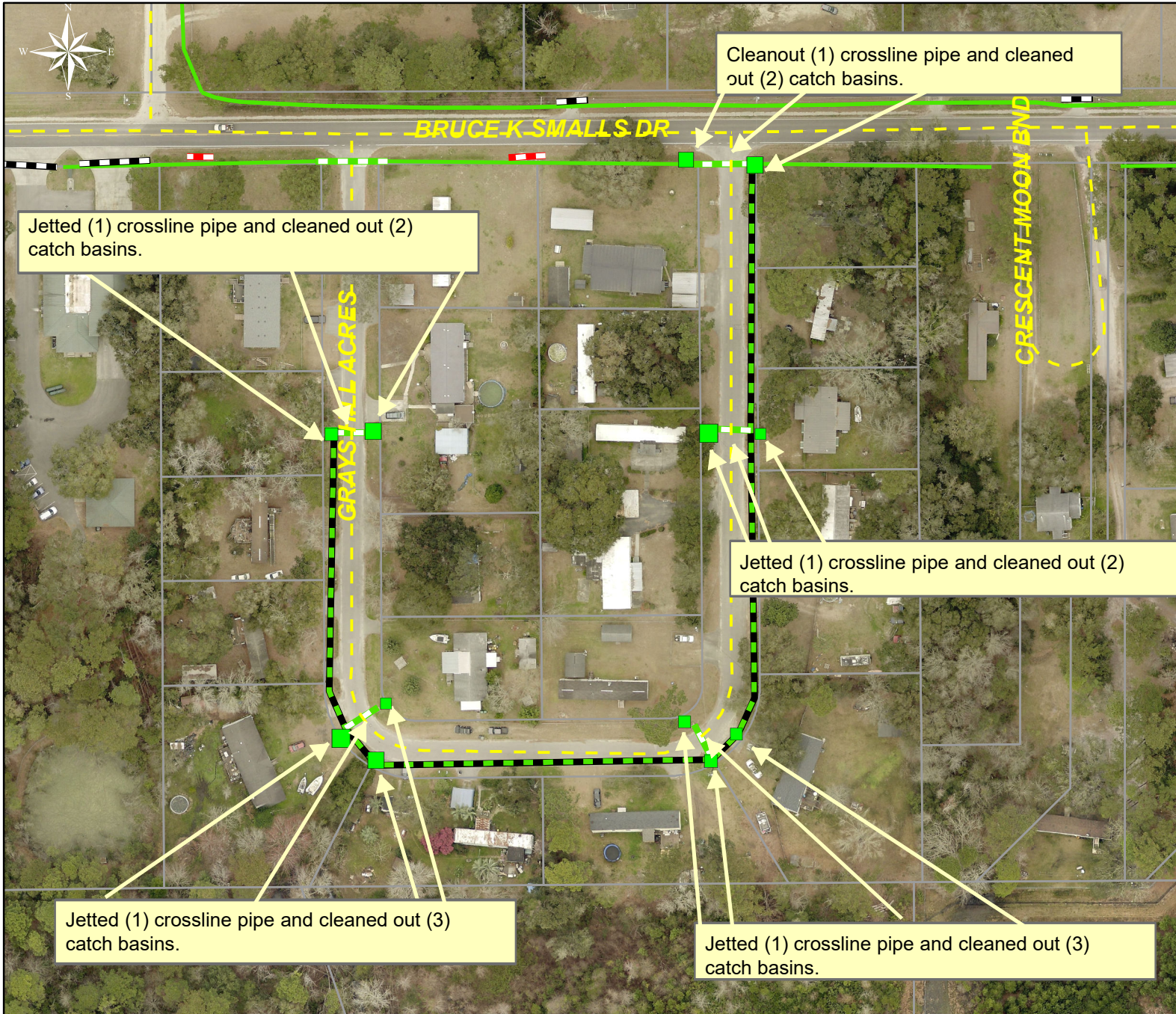


During



After





Project: Port Royal/
Island Vac Truck
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 20 40 80 120 160
Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#1_2021-306



Project: Port Royal/
Island Vac truck
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

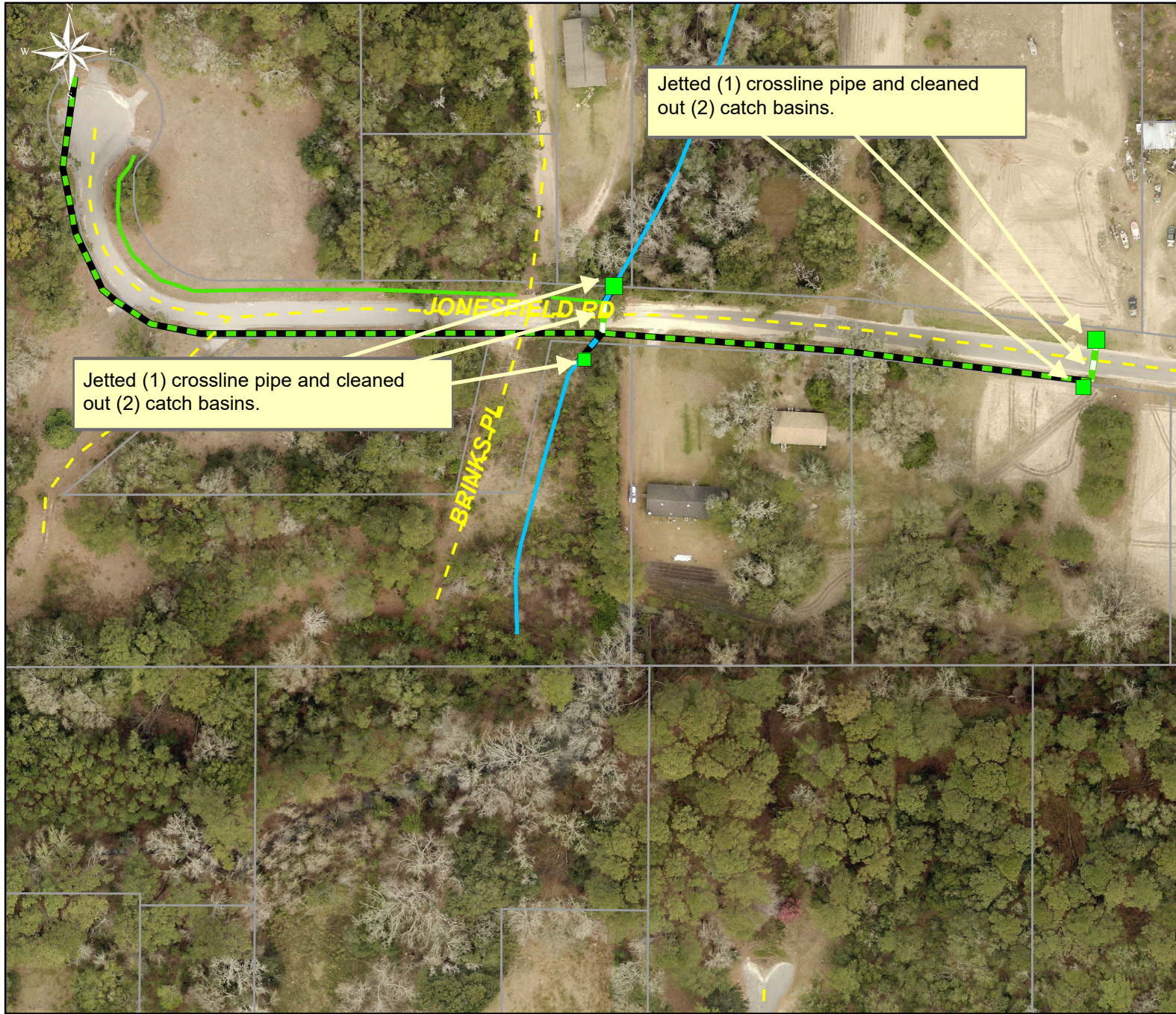
0 20 40 80 120 160
Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Rotal\Island Vac Truck Map#2_2021-306



Project: Port Royal/
Island Vac Truck
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island 6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 20 40 80 120 160
Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility
Date Print: 05/26/22
File: C:\project summaries map\Port Royal\Island Vac Truck Map#3_2021-306



Project: Port Royal/
Island Vac Truck
Map #4

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac TruckMap#4_2021-306



Project: Port Royal/
Island Vac Truck
Map #5

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

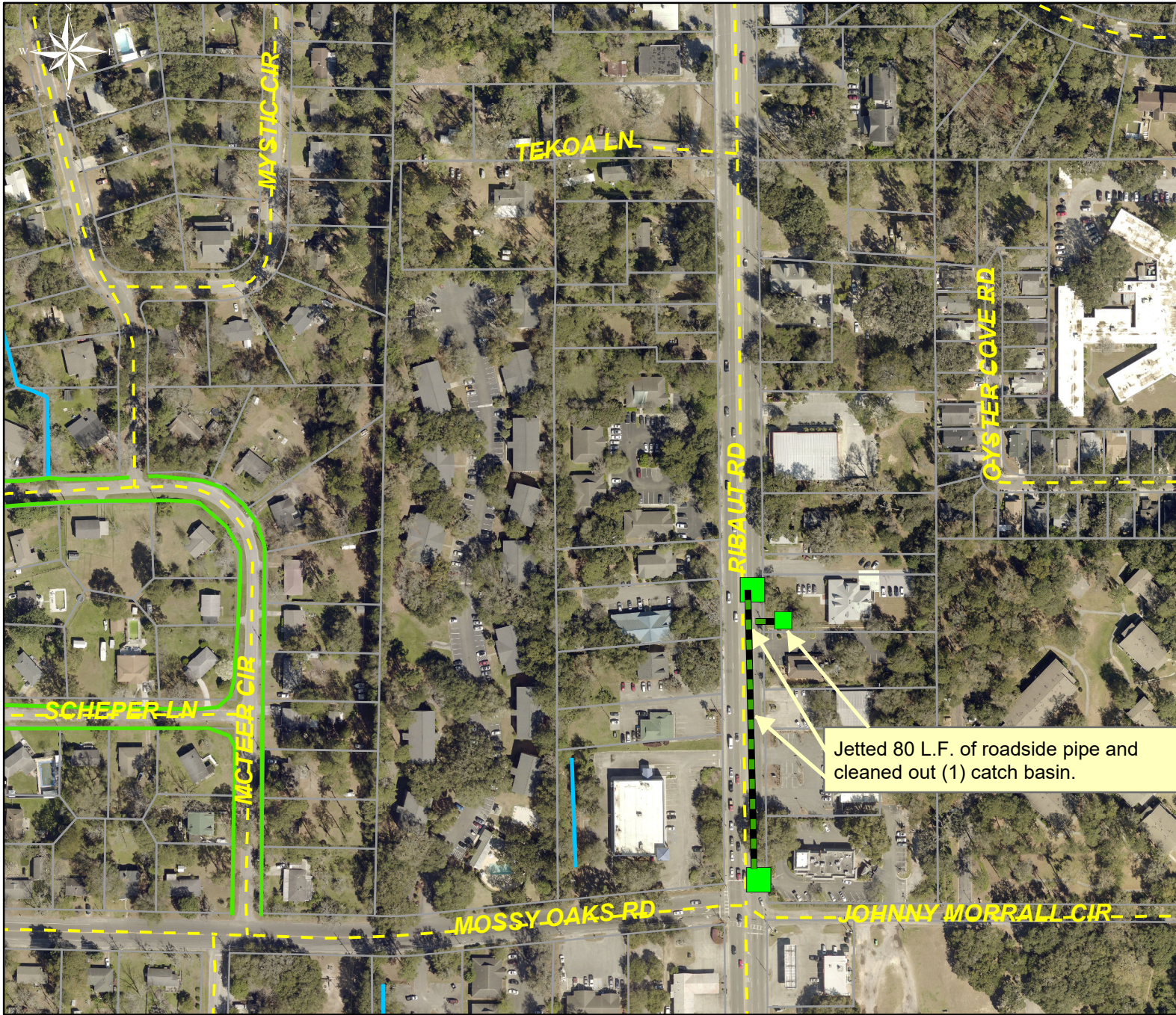


1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#5_2021-306



Project: Port Royal/
Island Vac Truck
Map #6

Activity: Routine/
Preventive
Maintenance














Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

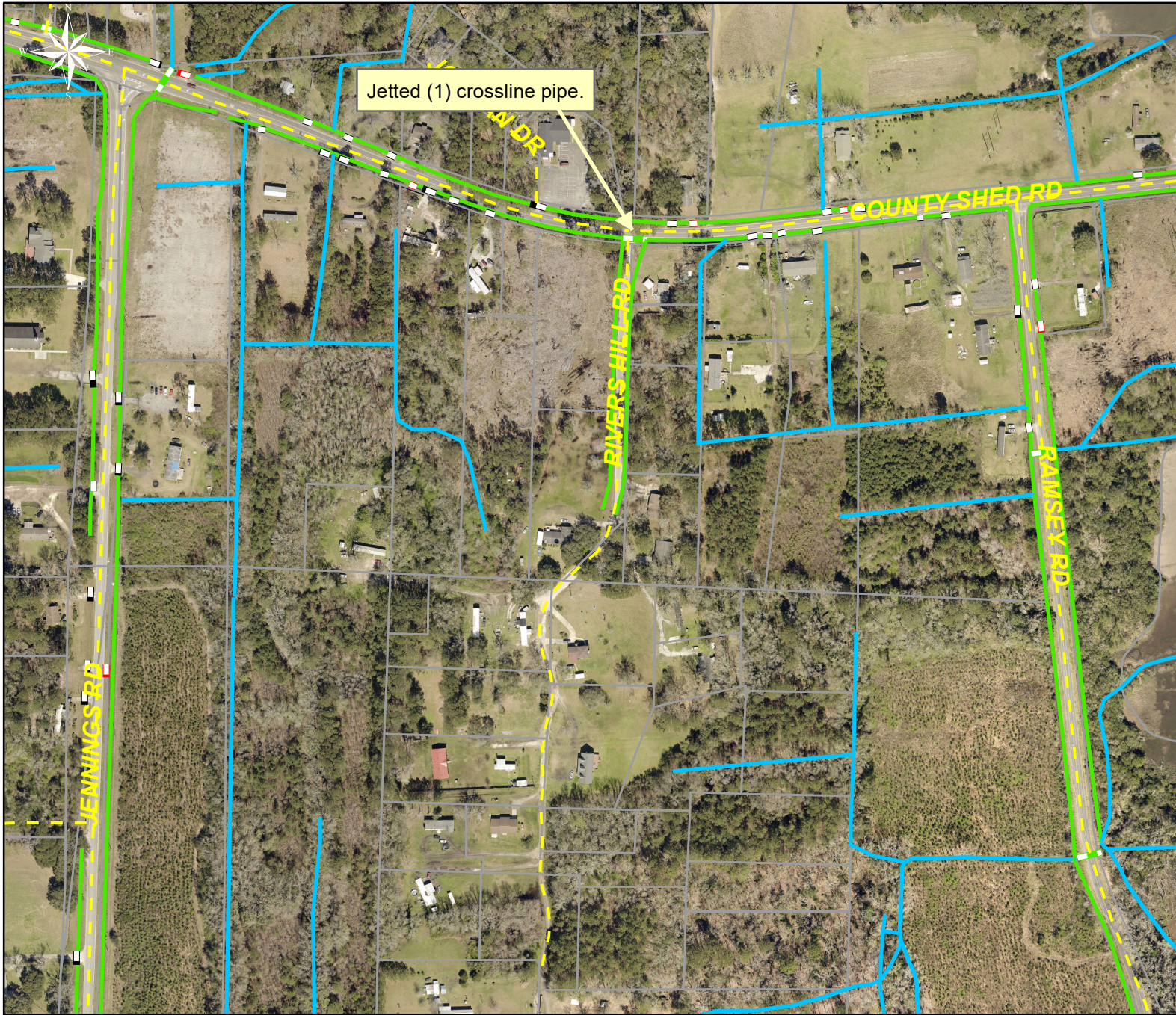
0 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#6_2021-306
















Project: Port Royal/
Island Vac Truck
Map #7

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print:05/26/22

File:C:\project summaries map\Port Royal\Island Vac Truck Map#7_2021-306



Project: Port Royal/
Island Vac Truck
Map #8

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

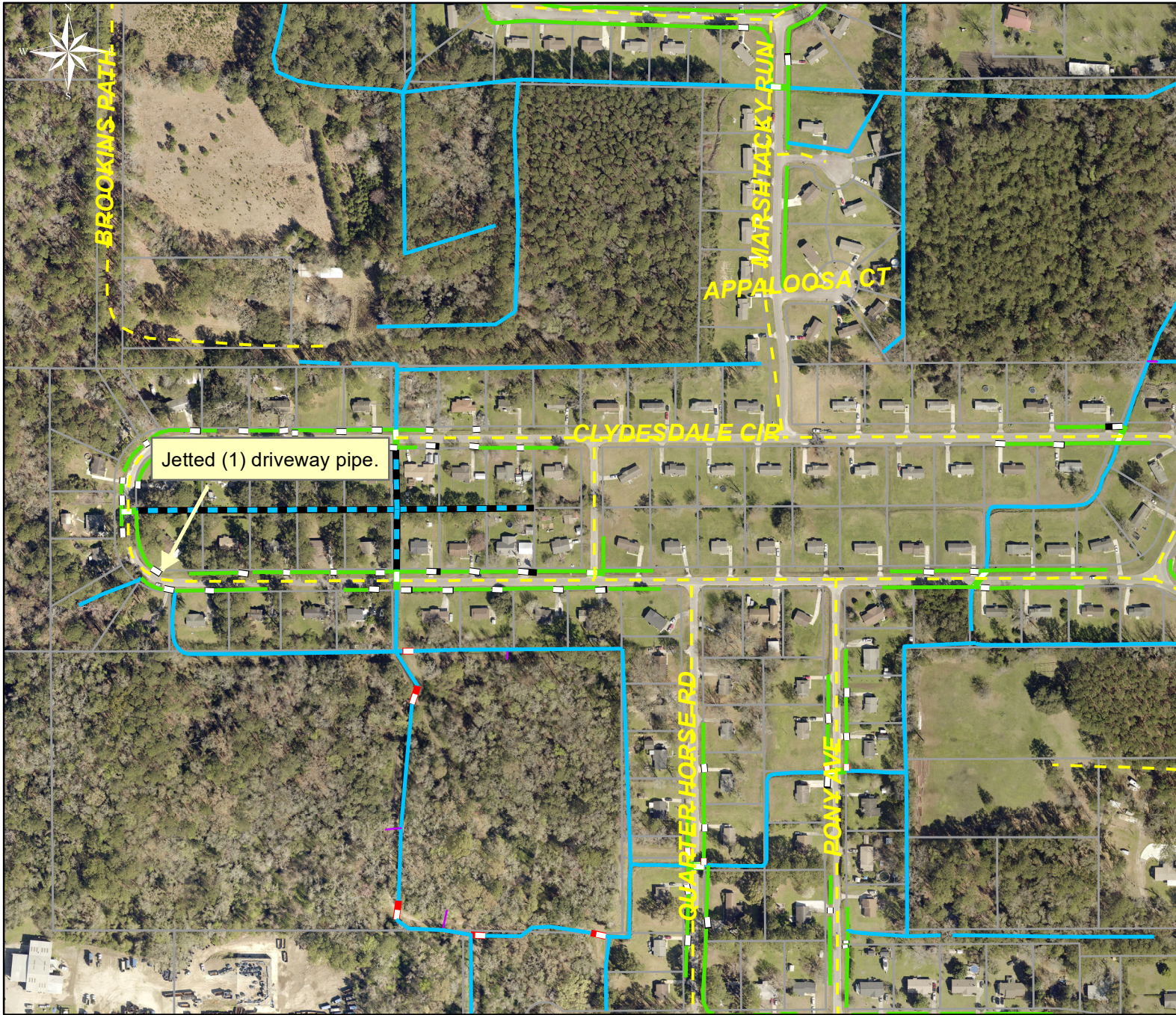


1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#8_2021-306



Project: Port Royal/
Island Vac Truck
Map #9

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

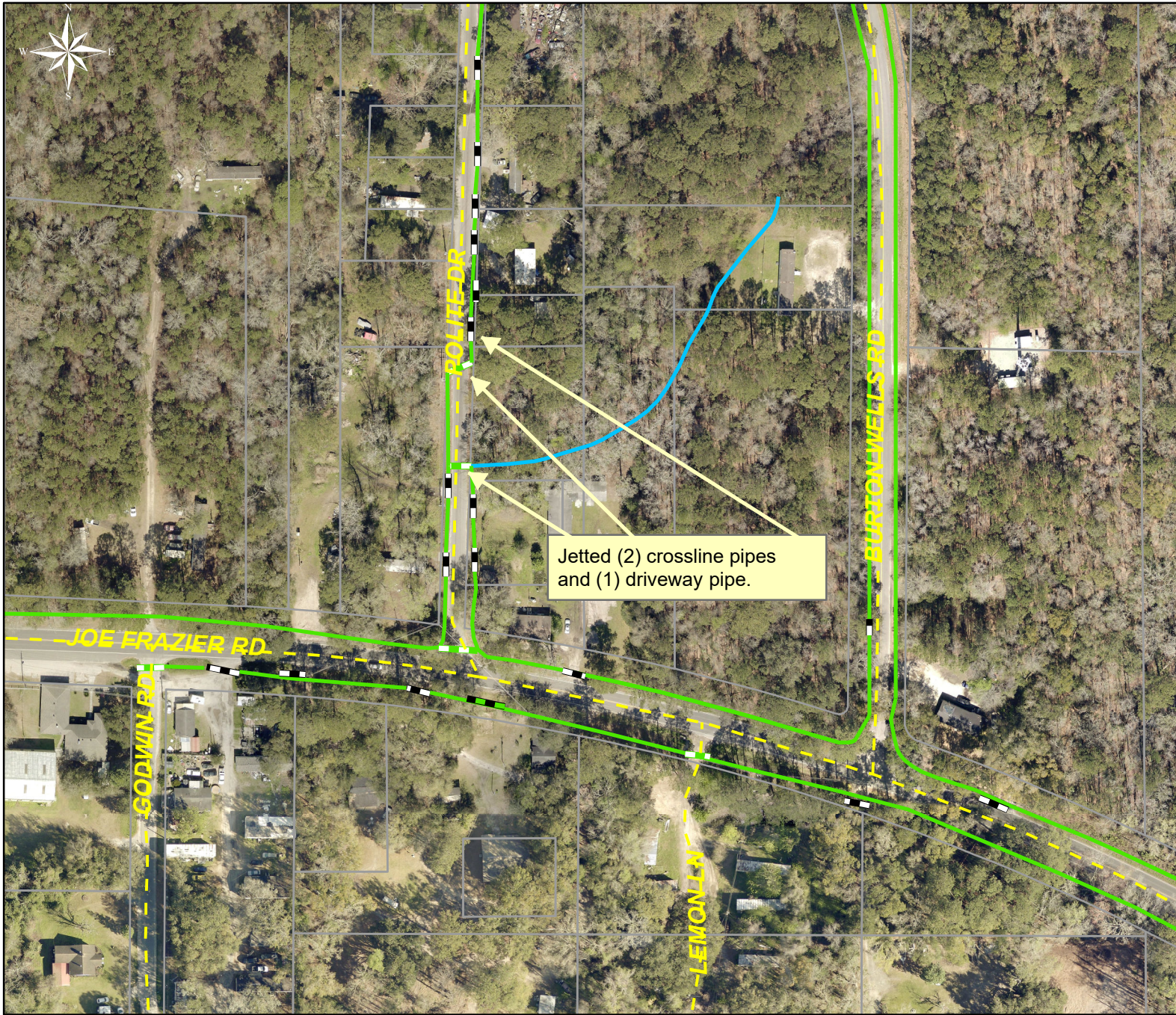
0 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#9_2021-306



Project: Port Royal/
Island Vac Truck
Map #10

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#10_2021-306



Project: Port Royal/
Island Vac Truck
Map #11

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

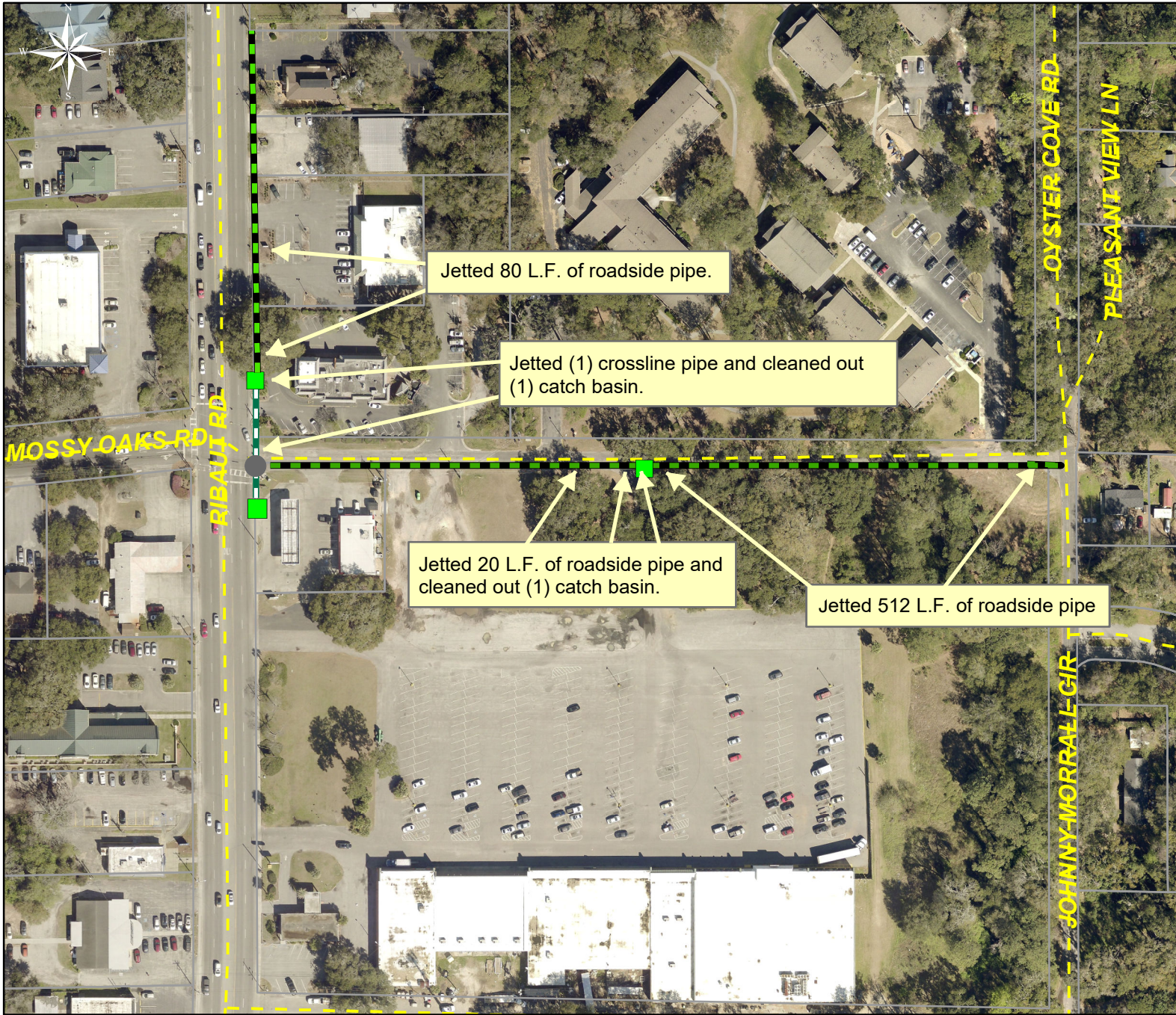


1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#11_2021-306



Project: Port Royal/
Island Vac Truck
Map #12

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

Jetted 80 L.F. of roadside pipe.

Jetted (1) crossline pipe and cleaned out (1) catch basin.

Jetted 20 L.F. of roadside pipe and cleaned out (1) catch basin.

Jetted 512 L.F. of roadside pipe

0 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#12_2021-306

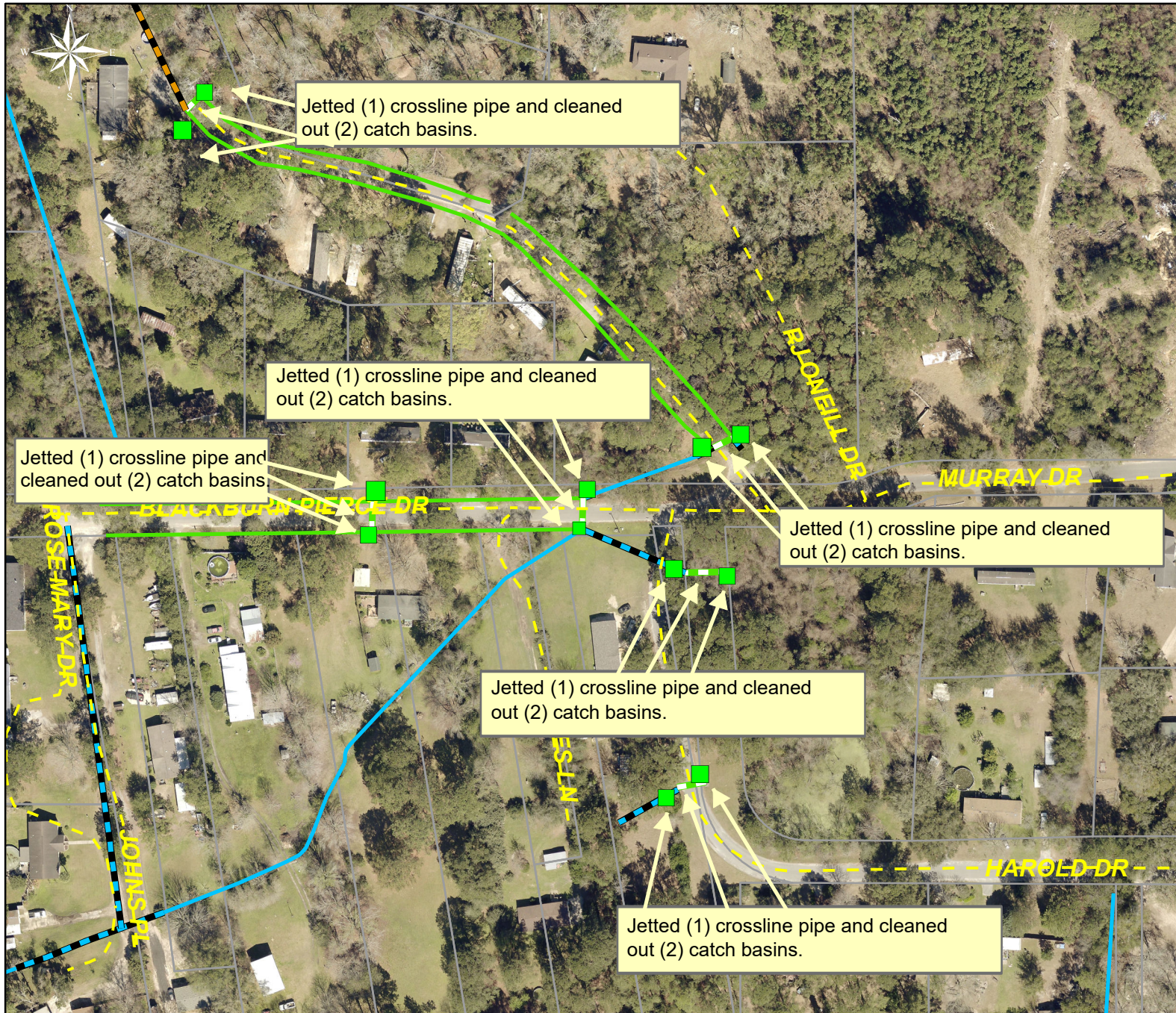
Project: Port Royal/
Island Vac Truck
Map #13

Activity: Routine/
Preventive
Maintenance

Project #:
2021-306

Township/SW Dist:
Port Royal/Island/6,9

Completed:
June 2021



Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 06/27/22

File: C:\project summaries map\Port Royal\Island Vac Truck Map#13_2021-306



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Vacuum Truck
 Folly Road, Roadway Inn, Mary Jenkins Circle. Sea Pines Drive, Levant Byas Road,
 Hunting Island, Harold Rivers Road, Simmons Road, James Washington Road,
 Janette Drive

Activity: Routine/Preventive Maintenance
Duration: 01/11/2021 - 06/29/2021

Narrative Description of Project:

Project improved 80 L.F. of drainage system. Cleaned out (8) catch basins. Jetted (36) driveway pipes, (19) crossline pipes, (4) access pipes and 80 L.F. of channel pipe.

2021-309A / St. Helena Island Vacuum Truck

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APJT / Access pipe - jetted	24.00	\$533.24	\$257.52	\$102.13	\$0.00	\$416.68	\$1,309.57
AUDIT / Audit Project	3.00	\$72.89	\$0.00	\$0.00	\$0.00	\$26.46	\$99.35
CBCO / Catch basin - clean out	16.00	\$368.96	\$306.56	\$90.24	\$0.00	\$134.32	\$900.08
CLPJT / Crossline Pipe - Jetted	56.00	\$1,257.20	\$836.00	\$185.31	\$0.00	\$806.40	\$3,084.91
DPJT / Driveway Pipe - Jetted	130.00	\$2,944.17	\$2,347.88	\$1,671.26	\$0.00	\$1,785.24	\$8,748.55
PP / Project Preparation	29.00	\$646.55	\$69.44	\$30.12	\$0.00	\$351.63	\$1,097.74
Grand Total	258.00	\$5,823.01	\$3,817.40	\$2,079.06	\$0.00	\$3,520.73	\$15,240.20

Before



During



After





Project: St. Helena
 Island Vac Truck
 Map#1

Activity: Routine/
 Preventive
 Maintenance

Project #:
 2021-309A

Township/SW Dist:
 St Helena/8

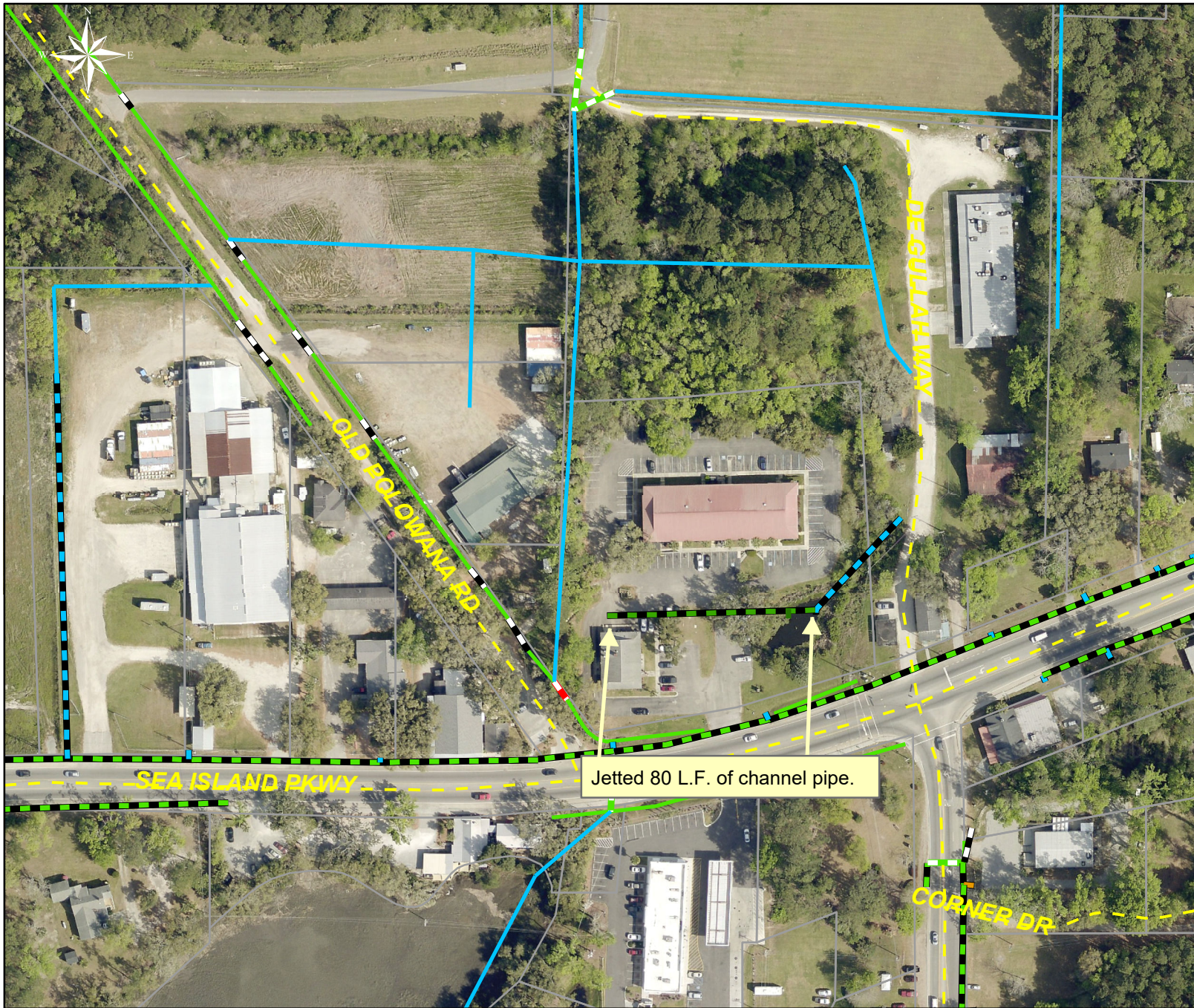
Completed:
 June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility
 Date Print: 05/26/22
 File: C:\project summaries map\St Helena Island Vac Truck Map#1_2021-309A



Project: St Helena
Island Vac Truck
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2021-309A

Township/SW Dist:
St. Helena Island/8

Completed:
June 2021

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St Helena Island Vac Truck Map#2_2021-309A



Project: St Helena
Island Vac Truck
Map #3

Activity: Routine/
Preventive
Maintenance














Project #:
2021-309A

Township/SW Dist:
St. Helena Island/8

Completed:
June 2021

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St. Helena Island Vac Truck Map#3



Project: St Helena
Island Vac Truck
Map #4

Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St. Helena Island/8

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St. Helena Island Vac Truck Map#4_2021-309A

Project: St Helena
Island Vac Truck
Map #5

Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St. Helena Island/8

Completed:
June 2021



Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 35 70 140 210 280
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St Helena Island Vac Truck Map#5_2021-309A



Project: St Helena
Island Vac Truck
Map #6

Activity: Routine/
Preventive
Maintenance














Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St Helena Island Vac Truck Map#5_2021-309A



Project: St Helena
Island Vac Truck
Map #7

Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 70140 280 420 560
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print:05/26/22

File:C:\project summaries map/St Helena Island Vac Truck Map#7_2021-309A



Project: St Helena
Island Vac Truck
Map #8

Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 35 70 140 210 280
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St Helena Island Vac Truck Map#8_2021-309A



Project: St. Helena Island Vac Truck Map #9

Activity: Routine/ Preventive Maintenance

Project #: 2021-309A

Township/SW Dist: St. Helena Island/8

Completed: June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 40 80 160 240 320 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St Helena Island Vac Truck Map#9_2021-309A



Project: St Helena
Island Vac Truck
Map #10














Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021

Legend

- Drainage Type**
-  Access Pipe
 -  Bleeder Pipe
 -  Channel Pipe
 -  Channel
 -  Stream
 -  Crossline Pipe
 -  Driveway Pipe
 -  Lateral
 -  Lateral Pipe
 -  River
 -  Road Pipe
 -  Roadside
 -  Roadside Pipe

0 70140 280 420 560
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print:05/26/22

File:C:\project summaries map/St Helena Island Vac TruckMap#10_2021-309A

Project: St Helena
Island Vac Truck
Map #11

Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021



Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

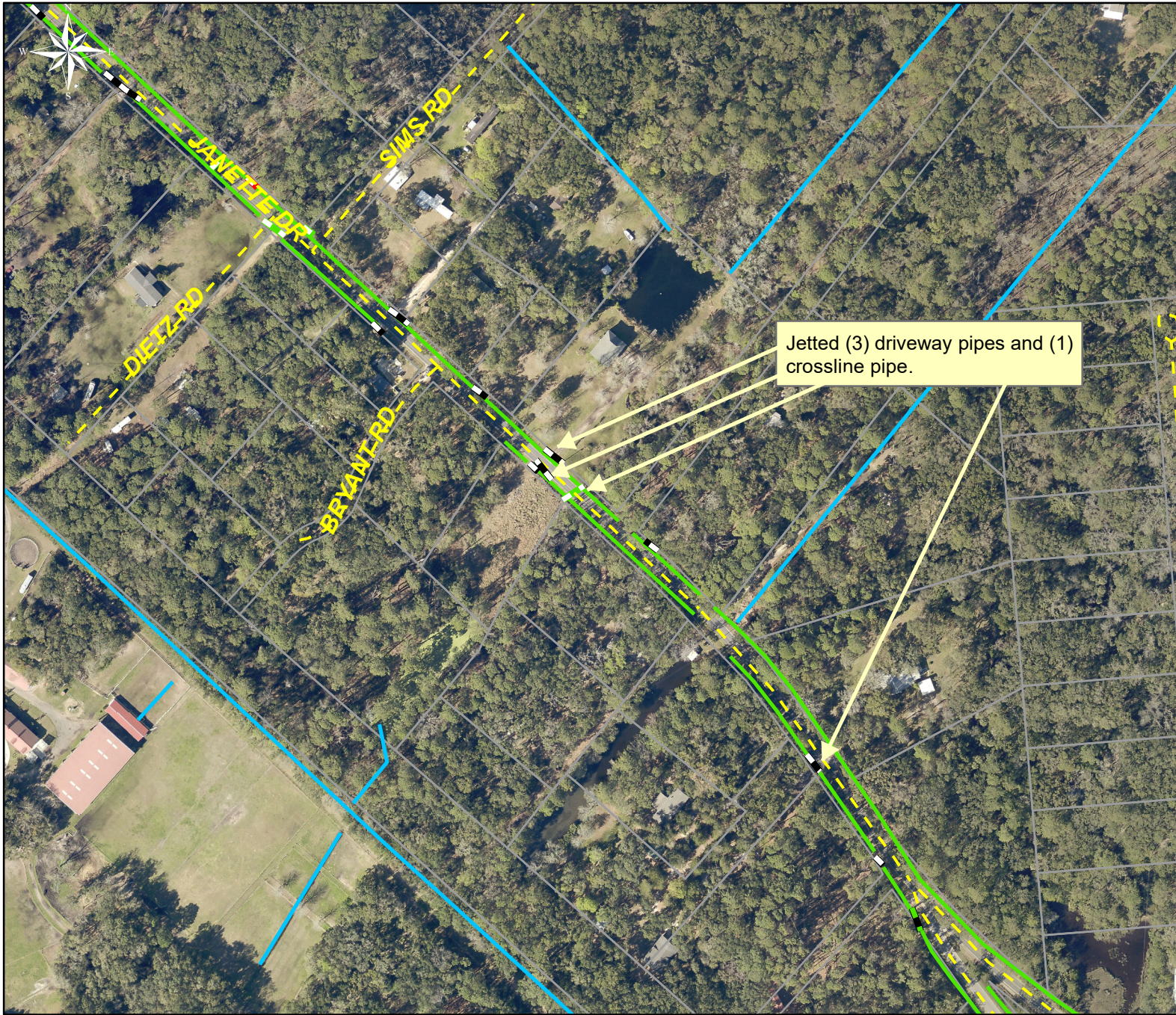
0 35 70 140 210 280
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\St Helena Island Vac Truck Map#11_2021-309A



Project: St Helena
Island Vac Truck
Map #12

Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 06/28/22

File: C:\project summaries map\St Helena Island Bac Truck Map#12_2021-309A

Project: St Helena
Island Vac Truck
Map #13

Activity: Routine/
Preventive
Maintenance

Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021



Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print:06/28/22

File:C:\project summaries map/St Helena Island Vac Truck Map#13_2021-309A



Project: St Helena
Island Vac Truck
Map #14

Activity: Routine/
Preventive
Maintenance














Project #:
2021-309A

Township/SW Dist:
St Helena Island/8

Completed:
June 2021

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 70140 280 420 560
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print:06/29/22

File:C:\project summaries map/St Helena Island Vac Truck Map#14_2021-309A



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, August 17th, 2022 2:00 p.m.
County Council Chambers
100 Ribaut Rd., Beaufort, South Carolina
843.255.2805

1. CALL TO ORDER – 2:00p.m.

In accordance with South Carolina Code of Laws, 1976, as amended, Section 30-4-80(d), all local media was duly notified of the time, date, place and agenda of this meeting.

- A. Approval of Agenda
 - B. Approval of Minutes – June 15th, 2022 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
- A. Utility Update – Katie Herrera ([backup](#))
 - B. Monitoring Update – Katie Herrera ([backup](#))
 - C. Stormwater Implementation Committee Report – Katie Herrera ([backup](#))
 - D. Stormwater Related Projects – Julianna Corbin ([backup](#))
 - E. Upcoming Professional Contracts Report – Julianna Corbin ([backup](#))
 - F. Regional Coordination – Katie Herrera ([backup](#))
 - G. Municipal Reports – Katie Herrera ([backup](#))
 - H. MS4 Update – Katie Herrera ([backup](#))
 - I. Staff Update – Katie Herrera ([backup](#))
 - J. Maintenance Projects Report – Matthew Rausch ([backup](#))
 - K. Liaison Report - Ms. Alice Howard
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
- A. Wednesday, October 19TH 2022 ([backup](#))
9. ADJOURNMENT

