



Richland County Stormwater Management Division

Capital Improvement Projects (CIPs)

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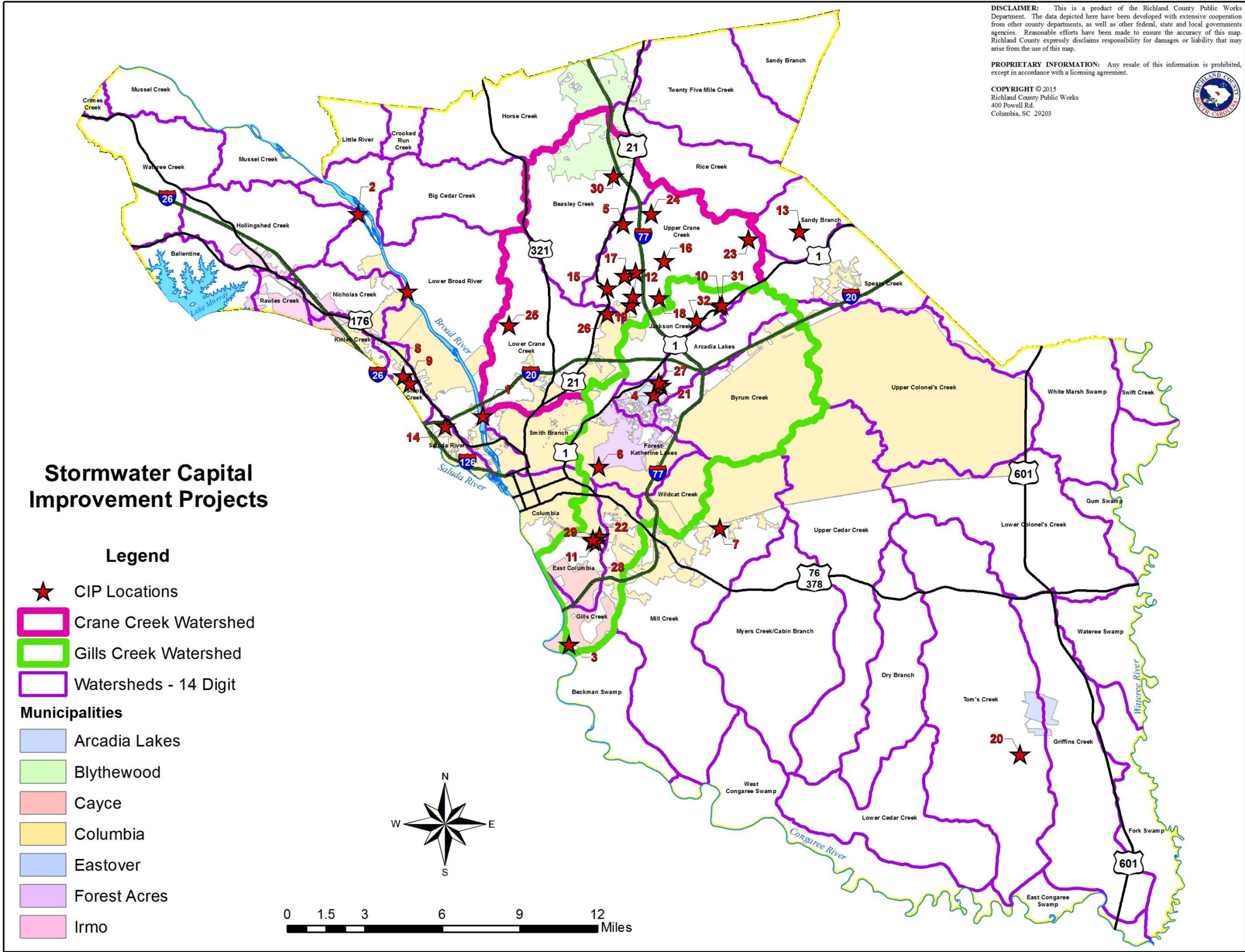
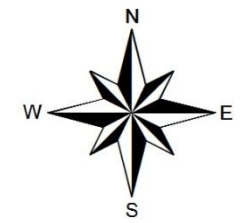
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Stormwater Capital Improvement Projects

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- ★ CIP Locations
 - Crane Creek Watershed
 - Gills Creek Watershed
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- Municipalities**
- Arcadia Lakes
 - Blythewood
 - Cayce
 - Columbia
 - Eastover
 - Forest Acres
 - Irmo



Site 1: Crane Creek Watershed Management Plan

Status: Completed

This project's objective was to develop a watershed management plan for Crane Creek watershed one of the major watersheds in Richland County that identified the pollutant sources that caused the creek's impairment and establish means for addressing/reducing pollutant loads.

Site 2: Hollingshed Creek Watershed Management Plan

Status: In progress

This project's objective was to develop a watershed management plan for Hollingshed Creek watershed that identified the pollutant sources that caused the creek's impairment and establish means for addressing/reducing pollutant loads.

Site 3: Gills Creek Watershed Management Plan

Status: Completed

Location: Gills Creek Watershed

This project's objective was to develop a watershed management plan for Gills Creek watershed that identified the pollutant sources that caused the creek's impairment and establish means for addressing/reducing pollutant loads.

Site 4: Cary Lake Water Quality Improvement

Status: Complete

Location: Arcadia Lakes Community off Decker Boulevard

The Cary Lake Water Quality Improvements Project was implemented by Richland County in association with Gills Creek Watershed Association to address water quality concerns, particularly sedimentation and trash/debris that has built up over several decades at Cary Lake. The project focused on two main outfall areas into the lake. The first area is the outfall area of Jackson Creek into the lake (past the box culvert at Decker Blvd), and the second area is the outfall from Ashworth Place Pond (at Cary Lane). Debris was removed from approximately eleven acres of lake bottom at both the outfalls and was hauled to the landfill. Turbidity barriers at the entrance of both the outfalls were installed to control future pollutant transfer.

Site 5: Bonbon Lane Piping

Status: Completed

Location: from 201 Bonbon Lane to 313 Bonbon Lane

This project consisted of the improvement of approximately 1000 LF of an existing drainage ditch along Bonbon Lane in northern Richland County. The existing ditch traverses numerous residential backyards, is unlined, and is experiencing erosion. Runoff from the project enters a blue-line stream to Crane Creek and flows further to the Broad River. The purpose of the project is to alleviate erosion along the ditch.

Site 6: Sunnyside Drive Drainage Project

Status: In progress

The Sunnyside Drive Capital Improvement Project is being implemented by Richland County to address erosion, flooding, and water quality concerns along an existing drainage channel in the Forest Acres community. The proposed project will install a new Road Crossing at Sunnyside Drive.

Site 7: Mountainbrook Subdivision Drainage Project

Status: In progress

Channel stabilization will also be addressed as part of this project, but the overall goal of the project will now be to permanently address water quality for this area as much as practical and feasible with the property and resources available to the County. The proposed improvements could potentially include the design of two surface detention areas that will be designed to attenuate the smaller storm events, an underground detention area, a proposed rain garden, one or more water quality units, and upsizing of the two downstream culverts to allow for the design storm event to pass through these locations without flooding.

Site 8: Stoops Creek - Piney Woods Road

Status: Completed

The project involves the removal of vegetation and sediment buildup from within Stoops Creek between Piney Woods and Piney Grove Road.

Site 9: Stoops Creek - Donovan Drive / Roselle Drive

Status: Completed

In this project, 600 LF piping and retaining wall was constructed to replace the existing drainage system that undermined residential properties.

Site 10: Little Jackson Creek Stream Drainage Analysis

Status: Completed

The project began in early 2010 and is part of an overall strategy to improve water resources and quality in the Gills Creek Watershed. The Little Jackson Creek Stream Restoration Project will be performed in an effort to stabilize approximately 8,500 feet of intermittent stream. Erosion of the streambed and side slopes has potentially compromised the integrity of the adjacent rail bed and is beginning to cause property damage along the adjacent residential properties (Spring Valley Subdivision). Transported sediment has contributed to siltation in Lake reducing the capacity for regional drainage detention, degrading water quality and creating a negative impact on the lake habitat.

Site 11: Jim Hamilton Airport - Rain Garden

Status: Completed

This project involved the construction of a rain garden to improve water quality and add beautification.

Site 12: Richland County Public Works - Rain Garden

Status: Completed

This project involved the construction of a rain garden to improve water quality and add beautification.

Site 13: Briarcliffe Pond Baysaver Unit Installation

Status: Completed

The purpose of this project was to prevent erosion and improve water quality for Briarcliffe Pond. Project work consisted of the installation of a pre-cast diversion structure in-line of an existing 60" reinforced concrete pipe, the construction of a dual-chamber stormwater treatment box, the installation of pre-fabricated treatment attachments and all necessary site work required completing the construction and returning the site to existing grade with a grassed surface.

Site 14: Skyview Terrace

Status: Completed

The intent of this project was to improve the efficiency of the existing system, enhance or replace inadequate components, prevent further erosion along main channel, and create a sustainable system that will be cost efficient for the County to maintain. Project efforts stabilized a drainage channel, improved stormwater quality, and reclaimed eroded residential property.

Site 15: Lake Elizabeth Phase I – Dredging of Pond Water Quality Improvement

Status: Completed

This Project improve the quality of the water in Lake Elizabeth, dredging of the lake at three designated areas will address the past sediment loading, while future phases will limit sediment transport.

Site 16: Lake Elizabeth Phase IIA – Providence Plantation Subdivision Water Quality Improvement

Status: Completed

Retrofitting existing storm drainage system with six (6) water quality units at various locations within Providence Plantation Subdivision.

Site 17: Lake Elizabeth Phase IIB – Jasmine Place Subdivision Water Quality Improvement

Status: Completed

Failed stormwater systems and outfalls were identified within the subdivision and as a result, severe bed and slope erosion occurred (from high runoff velocities). In an effort to improve stormwater runoff quality discharged from the subdivision, stormwater velocity was controlled by adding junction boxes and reducing the slope at outfalls. Sediment and erosion controls were also added at the outfalls to prevent slope and bed erosion. Existing storm drainage systems were outfitted with water quality units at four outfalls.

Site 18: Lake Elizabeth Phase IIIA – Cumbess Creek Water Quality Improvement

Status: Completed

Retrofitting existing storm drainage system with water quality units at three identified locations. The installed units shall treat stormwater before it is discharged in Cumbess Creek.

Site 19: Lake Elizabeth Phase IIIB – Cumbess Creek between I-77 adjacent to Northwood Golf Course Water Quality Improvement

Status: Not completed

Retrofitting existing storm drainage system with water quality units at three identified locations. The installed units shall treat stormwater before it is discharged in Cumbess Creek.

Site 20: Hill Pond Maintenance Project

Status: In progress

The project began mid-2013 and consists of maintenance for a private pond for the purpose of removing accumulated sediment in the upstream portion of the pond as well as portions of the channels upstream of Hill Pond.

Site 21: Decker Mall Parking Lot Retrofit

Status: In progress

The Richland County Decker Mall Parking Lot project is located on Decker Boulevard. This property is a fully developed commercial tract with the property being mostly asphalt and roof top run off. Stormwater leaves the site and discharges directly into Jackson Creek and ends up in Cary Lake. The design and installation of new stormwater controls within the existing parking area will improve the water quality leaving the site. If possible some of these stormwater controls should use low-impact development (LID) methods and materials.

Site 22: Devils Ditch Drainage Maintenance Project

Status: In progress

The general scope of the Devils Ditch Maintenance Project is to perform maintenance and repairs to Devils Ditch. This includes removal of overgrown vegetation, removal of accumulated sediment and debris, and application of appropriate bank and bed “localized” stabilization to prevent future erosion/scouring. Existing stabilization measures will be rehabilitated as necessary to optimize stabilization in respective areas.

Site 23: North Springs Park

Status: In Process

Proposed project includes a retrofit area near parking lot to improve drainage area by installing bio-retention area in order to improve water quality improvement for parking lot drainage.

Site 24: Killian Park

Status: In Process

Proposed project includes a retrofit area near parking lot to improve drainage area by installing bio-retention area in order to improve water quality improvement for parking lot drainage.

Site 25: Forest Heights Elementary School

Status: In Process

Proposed project includes a retrofit area near parking lot to improve drainage area by installing bio-retention area in order to improve water quality improvement for parking lot drainage.

Site 26: W.J. Keenan High School

Status: In Process

Proposed project includes a retrofit area near parking lot to improve drainage area by installing bio-retention area in order to improve water quality improvement for parking lot drainage.

Site 27: Zorba's Property Acquisition in Flooding Gills Creek

Status: In Progress

The approved scope of work consists of acquiring 2628 Decker Blvd, Columbia, SC 29206, demolishing the structure, removal of debris, and stabilizing the area. The acquisition process implemented through this grant must comply with FMA property acquisition and relocation for open space contained in 44 CFR Part 80.

Site 28: Airport FEMA Violation

Status: Completed

20 to 30 years ago a project redirected Gills Creek Tributary 1 to the east and created a new outfall at Gills Creek just downstream of the South Beltline Boulevard. While developing the data needed to support a LOMR for the 1982 Hamilton-Owens Airport channel relocation project, several issues have been encountered that have increased the original scope of the project.

Site 29: Owens Field Trail & Stormwater Improvements

Status: In Progress

Project is to rehabilitate and construct new sections of a 1-1.5 mile natural surface trail at Owens Field Park utilizing stormwater BMPs to minimize adverse impacts to the rehabilitated trail.

Site 30: Northpoint Stormwater Improvements

Status: In Progress

Proposed project includes the existing stormwater outfall along North Point Blvd will be reconstructed and repaired along with excavation & Armoring of the existing storm banks, and riprap fill within the stream bottom.

Site 31: Spring Valley Little Jackson Creek Stream mitigation, Stream restoration and Regenerative Stormwater conveyance

Status: In progress

The project began in early 2013 and is part of an overall strategy to improve water resources and quality in the Gills Creek Watershed. Erosion of the streambed and side slopes has potentially compromised the integrity of the adjacent rail bed and is beginning to cause property damage along the adjacent residential properties (Spring Valley Subdivision). Transported sediment has contributed

to siltation in Lake reducing the capacity for regional drainage detention, degrading water quality and creating a negative impact on the lake habitat.

Site 32: Upper Pine Lake Maintenance Project

Status: In progress

The project began mid-2013 and consists of maintenance for a private pond for the purpose of removing accumulated sediment in the upstream portion of the pond as well as portions of the channels upstream of Upper Pine Lake.