

**RICHLAND COUNTY**  
**DEVELOPMENT AND SERVICES**  
**COMMITTEE AGENDA**



**Tuesday, MARCH 22, 2022**

**5:00 PM**

# RICHLAND COUNTY COUNCIL 2021



Bill Malinowski  
District 1  
2018-2022



Derrek Pugh  
District 2  
2020-2024



Yvonne McBride  
District 3  
2020-2024



Paul Livingston  
District 4  
2018-2022



Allison Terracio  
District 5  
2018-2022



Joe Walker III  
District 6  
2018-2022



Gretchen Barron  
District 7  
2020-2024



Overture Walker  
District 8  
2020-2024



Jesica Mackey  
District 9  
2020-2024



Cheryl English  
District 10  
2020-2024



Chakisse Newton  
District 11  
2018-2022



Richland County Development and Services Committee

March 22, 2022 - 5:00 PM  
 Council Chambers  
 2020 Hampton Street, Columbia, SC 29201

The Honorable Derrek Pugh	The Honorable Allison Terracio	The Honorable Gretchen Barron	The Honorable Cheryl English	The Honorable Chakisse Newton
County Council District 2	County Council District 5	County Council District 7	County Council District 10	County Council District 11

1. **CALL TO ORDER** The Honorable Derrek Pugh
  
2. **APPROVAL OF MINUTES** The Honorable Derrek Pugh
  - a. February 22, 2022 [PAGES 6-9]
  
3. **ADOPTION OF AGENDA** The Honorable Derrek Pugh
  
4. **ITEMS FOR ACTION** The Honorable Derrek Pugh
  - a. Department of Public Works - FY21 Annual Roads Report [PAGES 10-37]
  - b. Department of Public Works - FY22 Comprehensive Transportation Improvement Plan (CTIP) [PAGES 38-60]
  
5. **ITEMS PENDING ANALYSIS: NO ACTION REQUIRED** The Honorable Derrek Pugh
  - a. Move to direct staff to evaluate current zoning laws that permit zoning designations for large residential developments to remain in perpetuity and present options to re-evaluate and or rezone those properties if they are not developed within 7 years. Recommendations should include processes to ensure that zoning and the comprehensive plan remain consistent with the lived character of the community [NEWTON - July 13, 2021]

- b. Move to invite the Richland County Conservation Commission to present the Lower Richland Tourism plan to Council [NEWTON and ENGLISH - November 16, 2021]  
*\*\*This item was held in committee at the December 16, 2021 Development & Services Committee meeting pending a Council workshop regarding the subject matter. The RCCC hosted an Open House on February 15, 2022. Staff awaits further direction from the motion's makers per email correspondence sent on March 3, 2022.*
- c. I move to direct the County Attorney to work with the County Administrator to research and draft an absentee landlord ordinance. The ordinance should provide potential remedies for individuals who violate county ordinances and provide, via supplemental documentation, a comprehensive review of the legal impacts [potentially] associated with the adoption of such an ordinance.  
[NEWTON, DICKERSON and TERRACIO - November 19, 2019]  
*\*\*Staff continues its efforts relative to this matter.*
- d. I move to have staff amend section 26-186 (Development with Open Space Design Standards) of the Land Development Code by amending the formula used in determining the total number of units allowed in the utilization of density-based and density bonus design standards by subtracting the constrained open space area acreage from the total site acreage prior to calculating. In addition, all lots must conform to the DHEC minimum required sizes so no bonus allows that lot size to be less than the DHEC requirement. [Malinowski - January 4, 2022]  
*\*\*Prior to Jun 30, 2022, staff will draft proposed language and present it to the Planning Commission and Development & Services committee for consideration.*
- e. Amending "Fireworks" Ordinance - [PUGH and BARRON - December 7, 2021] [PAGE 61]  
*\*\*Per Chief Polis, the Sheriff's Department collaborated with Councilman Pugh on the draft of the ordinance and support the concept of creating an enforceable fireworks ordinance. No additional feedback has been received regarding this ordinance.*

## 6. ADJOURNMENT



Special Accommodations and Interpreter Services Citizens may be present during any of the County's meetings. If requested, the agenda and backup materials will be made available in alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), as amended and the federal rules and regulations adopted in implementation thereof. Any person who requires a disability-related modification or accommodation, including auxiliary aids or services, in order to participate in the public meeting may request such modification, accommodation, aid or service by contacting the Clerk of Council's office either in person at 2020 Hampton Street, Columbia, SC, by telephone at (803) 576-2061, or TDD at 803-576-2045 no later than 24 hours prior to the scheduled meeting.



Richland County  
Development and Services Committee  
February 22, 2021  
**MINUTES**  
Council Chambers  
2020 Hampton Street, Columbia, SC 29204

COMMITTEE MEMBERS PRESENT: Derrek Pugh, Chair, Allison Terracio, Gretchen Barron, Cheryl English, and Chakisse Newton

OTHERS PRESENT: Bill Malinowski, Michelle Onley, Anette Kirylo, Leonardo Brown, Patrick Wright, Lori Thomas, John Thompson, Aric Jensen, Tamar Black, Kyle Holsclaw, Justin Landy, Abhi Deshpande, Stacey Hamm, Dale Welch, Randy Pruitt, Steven Gaither, Dwight Hanna, Ashiya Myers, David Bertolini and Geonard Price.

1. **CALL TO ORDER** – Chairwoman Allison Terracio called the meeting to order at approximately 5:00PM.

2. **APPROVAL OF MINUTES**

a. **Regular Session: December 16, 2021** – Mr. Pugh moved, seconded by Ms. Barron, to approve the minutes as distributed

Ms. English noted there is a scrivener's error on p. 5 of the minutes. The correct verbiage is "...nothing was ever set in stone..."

In Favor: Pugh, Terracio, Barron, English, and Newton

The vote in favor was unanimous.

3. **ADOPTION OF AGENDA** – Mr. Wright noted Item 5(c) is a legal action. If there are any legal questions raised, they will need to be addressed in Executive Session.

Ms. Newton moved, seconded by Ms. Barron, to approve the agenda as published.

In Favor: Pugh, Terracio, Barron, English, and Newton

The vote in favor was unanimous.

4. **ELECTION OF CHAIR** – Ms. Terracio moved, seconded by Barron, to nominate Mr. Pugh for the position of Chair.

In Favor: Pugh, Terracio, Barron, English, and Newton

The vote in favor was unanimous.

**Development and Service Committee  
February 22, 2022**

5. **ITEMS FOR ACTION**

- a. **County Attorney's Office - Easement And Access Agreements between the East Richland County Public Service District and Richland County affecting the Cooper Branch location of the Richland County Public Library** – Ms. Newton moved, seconded by Ms. Barron, to forward to Council with a recommendation to approve enactment of the ordinance granting the easement.

Mr. Malinowski inquired about the difference between an access license agreement and an easement agreement.

Mr. Wright responded an access license agreement is a contract with the other party. The ordinance will give the County the ability to do it.

In Favor: Pugh, Terracio, Barron, English and Newton

The vote in favor was unanimous.

- b. **County Attorney's Office - Purchase of the Edgewood Library Branch property (2101-13 Oak Street)** – Ms. Barron moved, seconded by Ms. Newton, to forward to Council with a recommendation to approve the purchase of the Edgewood Library Branch property.

Mr. Malinowski inquired if the blanks on p. 34; #8 need to be filled in prior to the document being approved.

Mr. Wright responded it will be filled in when the document is signed.

In Favor: Pugh, Terracio, Barron, English and Newton

The vote in favor was unanimous.

- c. **Road Closure Petition (Pointe Grand Columbia, LLC v. SCDOT, RC, DPX Holdings, LLC 2021-CP-40-06246) to close Research Court for which Richland County currently provides maintenance** – Ms. Terracio moved, seconded by Ms. Newton, to forward to Council with a recommendation to approve the petitioner's request to close the subject road and direct Legal to answer the lawsuit accordingly.

Mr. Malinowski inquired about the decrease in road maintenance costs and how much in taxes will be added to the County rolls by moving the road from County to private. He also requested a response from SCDOT and the property owners to ensure there is no object to the closing of the road.

In Favor: Pugh, Terracio, Barron, English and Newton

The vote in favor was unanimous.

6. **ITEM PENDING ANALYSIS: NO ACTION REQUIRED**

- a. **Move to direct staff to evaluate current zoning laws that permit zoning designations for large residential developments to remain in perpetuity and present options to re-evaluate and or rezone those properties if they are not developed within 7 years. Recommendations should include processes to ensure that zoning and the comprehensive plan remain consistent with**

**the lived character of the community [NEWTON - July 13, 2021]** – Ms. Newton noted staff is making recommendations and codifying this. She inquired if this needs to remain on the agenda.

Mr. Price responded the intent was to create these measures and incorporating them as a part of the Comprehensive Plan Update. He noted the matter could be tabled until they are ready to address the changes.

- b. **I move to direct the County Attorney to work with the County Administrator to research and draft an absentee landlord ordinance. The ordinance should provide potential remedies for individuals who violate county ordinances and provide, via supplemental documentation, a comprehensive review of the legal impacts [potentially] associated with the adoption of such an ordinance. [NEWTON and DICKERSON - November 19, 2019]** – Ms. Newton inquired when they could expect an update on the motion.

Mr. Price responded they are currently working on an update and are in the process of creating an ordinance to address the motion. The ordinance should be ready by the next Development and Services Committee meeting.

Ms. Terracio stated she would like to add her name to the motion.

Ms. Barron inquired about the process after an ordinance is drafted. She would like to see the motion move forward as it is a pressing and important issue.

Mr. Wright responded, after the committee approves the ordinance, it would move to Council for approval with three (3) readings.

Ms. Barron inquired is Mr. Price’s team is creating basic information or if they are producing an ordinance.

Mr. Price responded they are creating a unified ordinance. He noted they are looking to strengthen the enforcement measures and to focus on practical language to do so.

Ms. English stated she would like to add her name to the motion.

- c. **I move to have staff amend section 26-186 (Development with Open Space Design Standards) of the Land Development Code by amending the formula used in determining the total number of units allowed in the utilization of density-based and density bonus design standards by subtracting the constrained open space area acreage from the total site acreage prior to calculating. In addition, all lots must conform to the DHEC minimum required sizes so no bonus allows that lot size to be less than the DHEC requirement. [MALINOWSKI - January 4, 2022]** – Ms. Newton inquired if the Planning Commission and Council will be receiving the information simultaneously.

Mr. Price responded it will come to Council first and then would be sent to the Planning Commission. He noted it will be an amendment to the Land Development Code.

Ms. Terracio inquired if someone could explain, in layman’s terms, the purpose of the motion.

Mr. Price responded, during the application of the open space standards, the developers reserve a certain amount of land. If they get up to 25%, it allows them to do a reduction of the lot sizes that particular district requires. For example, if UR is LD, it is a 12,000 sq. ft. lot. With 25% open space, it

could be reduced to 5,000 sq. ft. He noted they could get a density bonus, in certain points. He noted part of the open space, to get the bonus, is land that is not usable. One of the main points is not to allow the unusable land to be used to determine the overall yield from the development.

Ms. Terracio inquired if the overall function would be to reduce density.

Mr. Price responded in the affirmative. The calculations would be based on the land used versus the gross acreage of the parcels.

- d. **Amending "Fireworks" Ordinance - [PUGH - December 7, 2021]** – Mr. Pugh noted, with Richland County being a military town, we need to take care of our veterans. We need to hold people accountable for not staying within the guidelines of the current ordinance. He stated he gets phone calls from veterans during the holidays about how to prevent excess fireworks use at one in the morning. It is not a problem with the fireworks, but people doing them in the middle of the week and throughout the night.

Ms. Terracio stated she knows a lot of people who would be appreciative of this, including pet owners.

Ms. Barron stated she would like to add her name to the motion. As a spouse of a disabled veteran, she wants to know what the next steps will be.

Mr. Wright stated his department is looking into this and the Sheriff's Department would be in support of some changes.

7. **ADJOURNMENT** – Ms. Barron moved, seconded by Ms. Terracio to adjourn.

In Favor: Pugh, Terracio, Barron, English and Newton

The vote in favor was unanimous.

The meeting adjourned at approximately 5:30PM.

**RICHLAND COUNTY  
ADMINISTRATION**

2020 Hampton Street, Suite 4069  
Columbia, SC 29204  
803-576-2050



**Agenda Briefing**

<b>Prepared by:</b>	Michael Maloney, P.E.	<b>Title:</b>	Director
<b>Department:</b>	Public Works	<b>Division:</b>	Engineering
<b>Date Prepared:</b>	February 2, 2022	<b>Meeting Date:</b>	February 22, 2022
<b>Legal Review</b>	Patrick Wright via email	<b>Date:</b>	February 14, 2022
<b>Budget Review</b>	Abhijit Desphande via email	<b>Date:</b>	February 11, 2022
<b>Finance Review</b>	Stacey Hamm via email	<b>Date:</b>	February 11, 2022
<b>Approved for consideration:</b>	Assistant County Administrator	John M. Thompson, Ph.D., MBA, CPM, SCCEM	
<b>Committee</b>	Development & Services		
<b>Subject:</b>	Annual Road Report for Fiscal Year 2021 (FY-21)		

**RECOMMENDED/REQUESTED ACTION:**

Staff recommends that County Council receive the attached Annual Road Report for information and general publication.

Request for Council Reconsideration:  Yes

**FIDUCIARY:**

Are funds allocated in the department’s current fiscal year budget?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
If no, is a budget amendment necessary?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

**ADDITIONAL FISCAL/BUDGETARY MATTERS TO CONSIDER:**

Not applicable.

**COUNTY ATTORNEY’S OFFICE FEEDBACK/POSSIBLE AREA(S) OF LEGAL EXPOSURE:**

None.

**REGULATORY COMPLIANCE:**

Not applicable.

**MOTION OF ORIGIN:**

There is no associated Council motion of origin.

<b>Council Member</b>	Click or tap here to enter text.
<b>Meeting</b>	Click or tap here to enter text.
<b>Date</b>	Click or tap here to enter text.

#### **STRATEGIC & GENERATIVE DISCUSSION:**

This document is intended for information and for distribution to the public. The document provides a summary of the ongoing maintenance activities and the projects completed during the FY21 year. Projects in this report were constructed or managed by Richland County Department of Public Works and the Transportation Penny Staffs. All of the projects shown in this report have been accepted into the County Road Maintenance System (CRMS).

#### **ADDITIONAL COMMENTS FOR CONSIDERATION:**

It is intent of the DPW staff to prepare an Annual Road Report each Fiscal Year (FY) to detail general activities, maintenance performed, and capital projects completed by the Department of Public Works staff and the Transportation Penny staff.

#### **ATTACHMENTS:**

1. The Annual Road Report, Fiscal Year 2021 (FY-21)



# Annual Road Report

## Richland County, South Carolina

### Department of Public Works

### Fiscal Year 2021



*Resurfacing project on Riverwalk Way*



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# Introduction and Purpose

This document is provided in order to inform the residents of Richland County about activities required to maintain and improve the County Road Maintenance System (CRMS) each year.

It provides a summary of these activities and projects completed during Fiscal Year 2021 (FY-21), which ran from July 1, 2020, through June 30, 2021. Projects in this report were managed and/or constructed by the Richland County Department of Public Works (DPW) and the Transportation Penny Department. All of the projects included in this report have been accepted into the CRMS. This system represents the large network of roads and roadside drainage that DPW maintains, repairs and improves.

**Director of Public Works**  
Michael Maloney, PE

**Deputy Director of Public Works**  
Chris Eversmann, PE

County Engineer  
Stephen Staley, PE

Assistant County Engineer  
Shirani W Fuller, PE

**Main Office:**  
400 Powell Rd  
Columbia, SC 29203  
803-576-2400

**Maintenance Locations:**

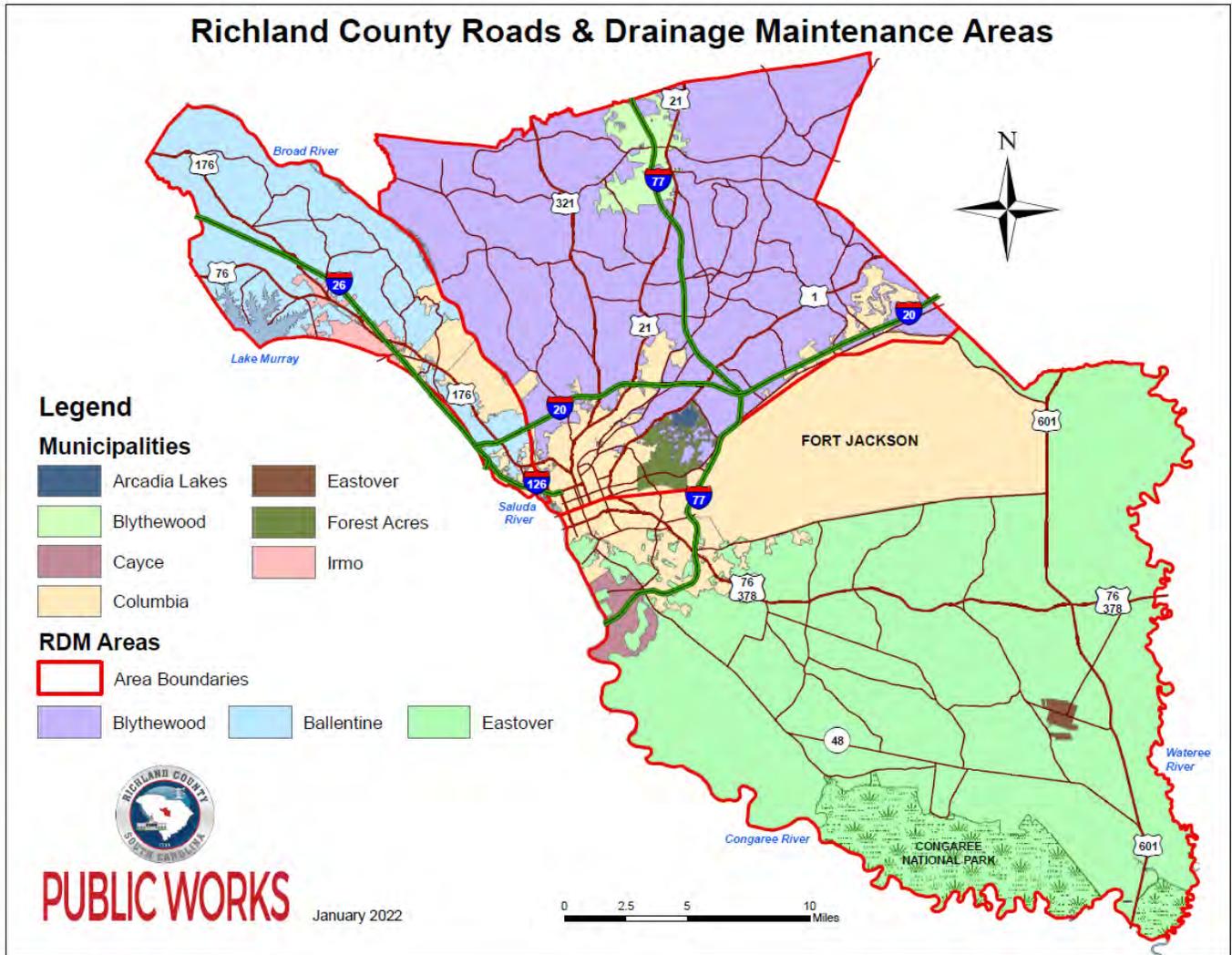
Specialty Sections  
400 Powell Road  
Columbia, SC 29203

Blythewood (North) Section  
437 Blythewood Road  
Blythewood, SC 29106

Ballentine (West) Section  
1009 Bickley Road  
Irmo, SC 29063

Eastover (South) Section  
2009 Chain Gang Road  
Eastover, SC 29044

# Richland County Roads & Drainage Maintenance Areas Map



# Comprehensive Transportation Improvement Plan (CTIP)

The Richland County Department of Public Works (DPW) maintains an extensive network of roads within the County Road Maintenance System (CRMS). Department staff currently maintain 831 miles of various types of roads.

Road Type	Mileage
Unpaved Prescriptive Easement	161
Unpaved Right-of-Way	44
Paved	621
Paved-Incoming	5
<b>Total</b>	<b>831</b>

Most of the roads accepted into the CRMS are classified as residential. These are low-volume, low-speed, two-lane roadways. The County also maintains a small group of collector roads and industrial/commercial roads. As subdivision roads are deeded to the County by developers, the drainage system associated with those roads is also conveyed for maintenance. In order to be accepted into the CRMS, roads and drainage systems must be constructed to County standards.

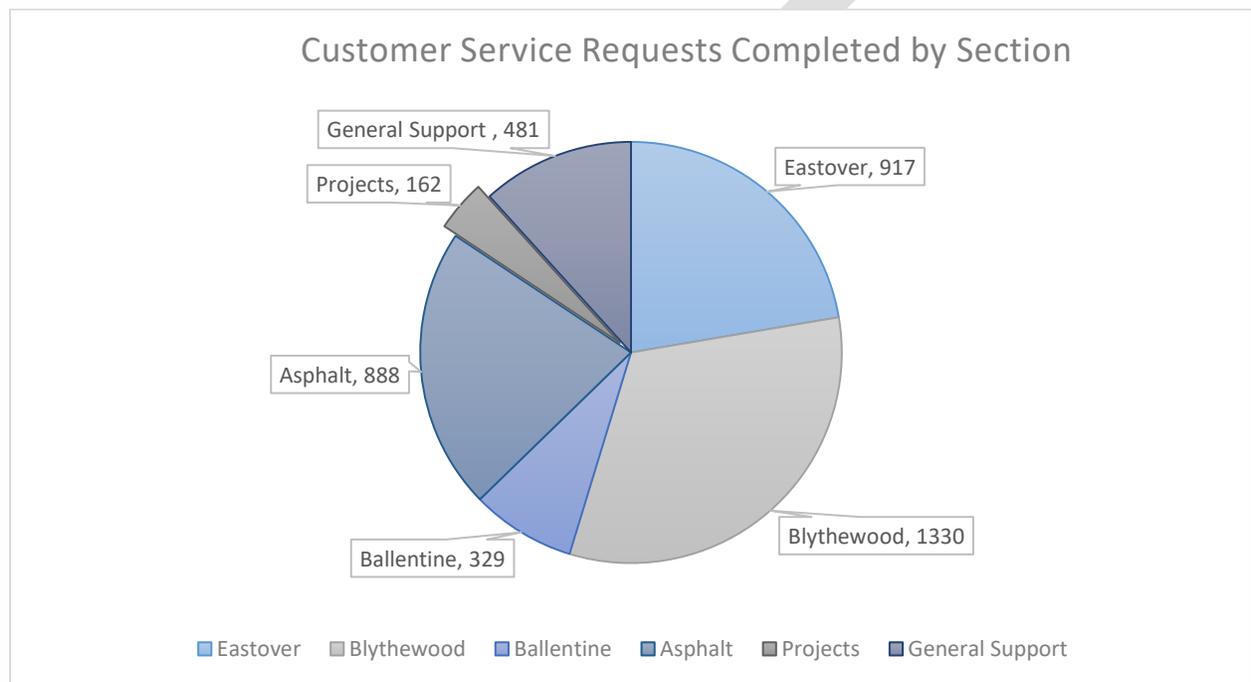
In fiscal year 2020 (FY-20), DPW released its first Comprehensive Transportation Improvement Plan (CTIP). This plan was created based on an evaluation of assets and a distribution of resources within each Council district. The CTIP addresses the transportation projects that are intended to be started and/or completed in the coming fiscal year. Once the budget was determined for the upcoming year, the Roads & Drainage Maintenance Division (RDM) and Engineering Staff (EGR) created the preliminary plan under the guidance of the Director of Public Works. It was then presented to County Council and the County Transportation Committee (CTC) for approval.

Funding for these projects comes from two main sources: the Road Maintenance Fee and “C” Funds (CTC funding). The Road Maintenance Fee is collected on vehicle personal property tax bills from residents of Richland County. This generates approximately \$5 million per year, which is applied to funding capital roadway projects, maintenance and repair of roads, sidewalk construction and repair, and drainage repair and improvements. “C” Funds are allocated on a per project basis by the CTC, at its discretion, to agencies whose projects meet established criteria.

Based on Intergovernmental Agreements (IGAs) with small municipalities within Richland County, the DPW staff requests funding from the CTC on their behalf. The CTIP is updated annually.

# Customer Service Focus

Within the Department of Public Works, the divisions of Roads & Drainage Maintenance (RDM) and Engineering (EGR) are customer service-focused groups that respond directly to Citizen Service Requests (CSRs). In FY-21, these divisions completed a total of 4,742 CSRs (with RDM completing 4,170 of those).



Below is a breakdown of major categories for service requests assigned to the RDM and EGR divisions during FY-21:

CSRs by Category	# Requests	Percentage
Road Maintenance/Repairs	1,694	36%
Drainage Maintenance	1,072	23%
Traffic Control/Safety Issues	572	12%
Vegetation Maintenance	368	8%
Emergency Maintenance/Road Hazards	244	5%
Other	792	16%
<b>Total</b>	<b>4,742</b>	<b>100%</b>



In a partnership with smaller municipalities, Richland County has IGAs for maintenance of roads and their associated drainage systems:

- Town of Blythewood
- Town of Irmo
- Town of Arcadia Lakes
- City of Forest Acres
- Town of Eastover

IGAs enable a basic level of maintenance to be efficiently provided to citizens of these municipalities, while avoiding the high cost of the municipalities developing their own public works departments.

The County also enters into maintenance agreements with the South Carolina Department of Transportation (SCDOT). There are currently three such agreements in which DPW shares some of the maintenance responsibilities with SCDOT within their rights-of-way:

- Polo Road Shared Use Path (SUP)
- Clemson Road SUP
- Rabbit Run / Lower Richland Blvd SUP

DPW also maintains an agreement with the SCDOT to provide assistance in clearing the SCDOT road system in the case of a winter weather snow or ice event. County resources of labor and equipment are provided on a reimbursable basis.



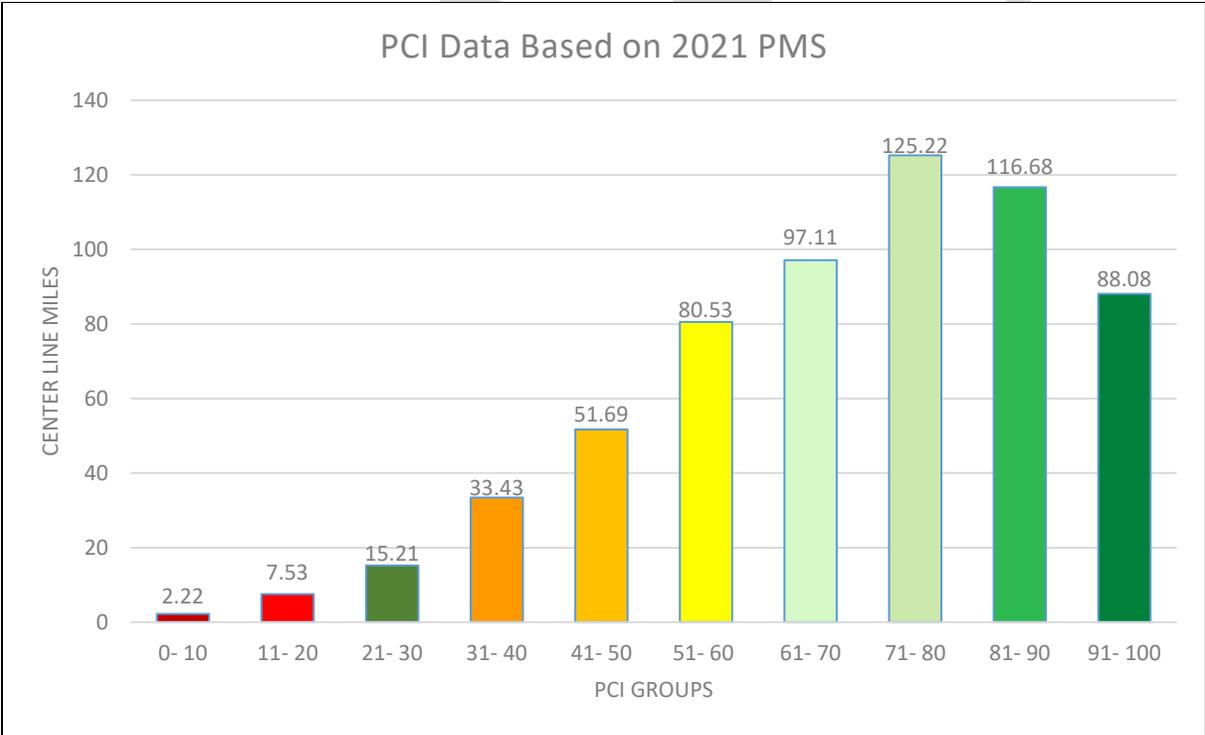
*SUP - Polo Rd*



# Pavement Management Study (PMS)

The County is concluding its second Pavement Management Study (PMS) to assess the condition of all paved roads within the County Road Maintenance System (CRMS). The PMS generates a Pavement Condition Index (PCI) for each road based on evaluation of common distresses such as alligator, longitudinal and transverse cracking. The extent and severity of these distresses correlate to a numerical value between 0-100. Every two years, these values will be updated through inspection by EGR Staff. A new comprehensive study will be performed every six years.

The other function of the PMS is to help develop a long-term plan for allocating funding into the CRMS. Various methods of pavement treatment such as preservation, resurfacing and rehabilitation will be employed. The plan is data-driven, based on PCI values and available funding. The County’s goal is to elevate all County roads to a standard of “good” and maintain them at that level thereafter.



# Operations Performed by Public Works

## Road Maintenance and Repair

The majority of Citizen Service Requests (CSRs) received by RDM are for road maintenance and repair. In FY-21, 1,694 CSRs were categorized as “road maintenance.” Each workday, crews perform activities such as patching potholes, installing driveway aprons, and scraping/crowning unpaved roads. Smaller paving jobs, curb and gutter repair, and sidewalk repair are also performed.

Larger scale projects are constructed by the RDM Projects section or outsourced to a contractor as part of the Capital Improvement Projects (CIP) program. RDM and EGR staffs work together in order to determine how to best manage and prioritize these projects.

Also in FY-21, a dust suppression compound was applied to 61 unpaved roads, equaling 38 miles of roadway.



*Unpaved road scrape performed by RDM crew*



# Drainage Maintenance



*Clogged outfall pipe (before)*

Drainage maintenance includes cleaning pipes, pipe inlets and outfalls, making joint repairs on reinforced concrete pipe, installing and extending drainage pipes, cleaning and repairing catch basins, and cleaning and re-establishing ditches. During FY-21, 1,072 CSRs were classified as drainage related. A well-functioning drainage system is essential to the longevity of roadways and the protection of property. Failing drainage systems can lead to property damage and cause health and safety concerns.



*Outfall pipe after maintenance*

DPW is working to create a comprehensive inventory of all County drainage system components as a layer within our Geographic Information System (GIS). DPW maintains approximately 367 miles of various types of pipe, including reinforced concrete, high-density plastic, and corrugated metal.

RDM relies heavily on residents to inform staff when drainage systems are not functioning properly and need maintenance.



## Traffic Control and Traffic Safety

This category of requests includes such tasks as sign installations, traffic-calming requests, speed hump installations and pavement marking requests. RDM crews perform all of these tasks, except pavement marking installation, which is performed by an on-call contractor.

The RDM General Support section has a sign shop at the Powell Road compound. Here, all signs for County-maintained roads and all street name signs for all roads within Richland County (including both SCDOT and private roads) are fabricated. The General Support section is also responsible for installing all traffic control signs within the CRMS.

The Engineering Division staff manages requests for traffic-calming studies. Following established County policy, studies are conducted to determine whether a traffic-calming device needs to be installed on a road. The EGR staff performs all studies for both County- and SCDOT-maintained paved roadways. If a study meets the established criteria and qualifies for a speed hump, the Asphalt & Concrete section will install these at the designated location. In FY-21, 55 studies were conducted, and five (< 10%) qualified for and received speed humps.



*Speed hump installed by RDM on Whitehurst Way*



## Vegetation Maintenance

Vegetation maintenance includes mowing rural road shoulders, tree trimming, and clearing brush that obscures roadway visibility or restricts drainage through ditches.

Joint projects between the Transportation Penny Department and SCDOT have resulted in maintenance agreements in which the County has responsibility for mowing Shared Use Paths (SUPs) on some state roads.



*Slope mower cutting County right-of-way*

Mowing operations are both seasonal and affected by rainfall amount. The County does not perform this service within subdivisions; the majority of mowing and trimming activities are performed in rural areas of the County. RDM operates five slope mowers to accomplish all of their mowing responsibilities.

Tree trimming is frequently performed in response to a citizen request in the event that school buses or trucks cannot maneuver properly where low-hanging limbs are close to the roadway. This trimming can be done by RDM employees and equipment, or by a tree contractor, depending on the circumstances.



# Emergency Maintenance and Road Hazards



*Sinkhole near 2020 Hampton St., Columbia*

The Roads & Drainage Maintenance Division (RDM) staff responds to calls 24 hours a day with on-call personnel for after-hour emergencies. RDM crews work with other emergency response agencies to dispatch staff as needed.

RDM frequently responds to road hazards, such as trees or other obstacles blocking the roadway that could pose danger to the traveling public.

Emergency maintenance projects are constructed with the approval of the County Administrator or when a state of emergency is declared. During a state of emergency, all essential personnel in the department work rotating shifts to ensure round-the-clock response to keep the roadways safe. Weather events such as snow, ice or hurricanes are the most common reasons for a state of emergency. When a hazard cannot immediately be corrected, staff has the ability to close a road until a safe route can be established.

DPW staff also works closely with Richland County’s Emergency Management Division (EMD). When EMD activates the Emergency Operation Center (EOC), the Engineering Division provides staff to the EOC to coordinate efforts and enhance communication throughout County departments.

## Roads & Drainage – Projects Section

The Department of Public Works has a Projects section to address infrastructure needs that exceed the scope of routine maintenance. Projects falling into this category are of a more complex nature, require a longer time to complete, and also require some level of basic engineering analysis and design.

The Projects section performs a broad range of tasks, from drainage improvements, to roadway repairs, replacement of curb and gutter, and even occasional work at the Jim Hamilton-L.B. Owens Airport (CUB). Projects typically start with a CSR, which is investigated by Roads & Drainage Maintenance staff. If determined to be beyond the scope of routine maintenance, RDM will refer the request to Engineering Division staff for evaluation. At that point, it is determined whether the request qualifies for the internal project list or should be performed by a contractor as a Capital Improvement Project (CIP).

In FY-21, the Projects section completed 14 projects, most of which were related to drainage concerns from citizens.



*Drainage improvement project at CUB*



# Capital Improvement Projects

The Department of Public Works budgets each year to complete Capital Improvement Projects through a procurement process used to select consultants and contractors.

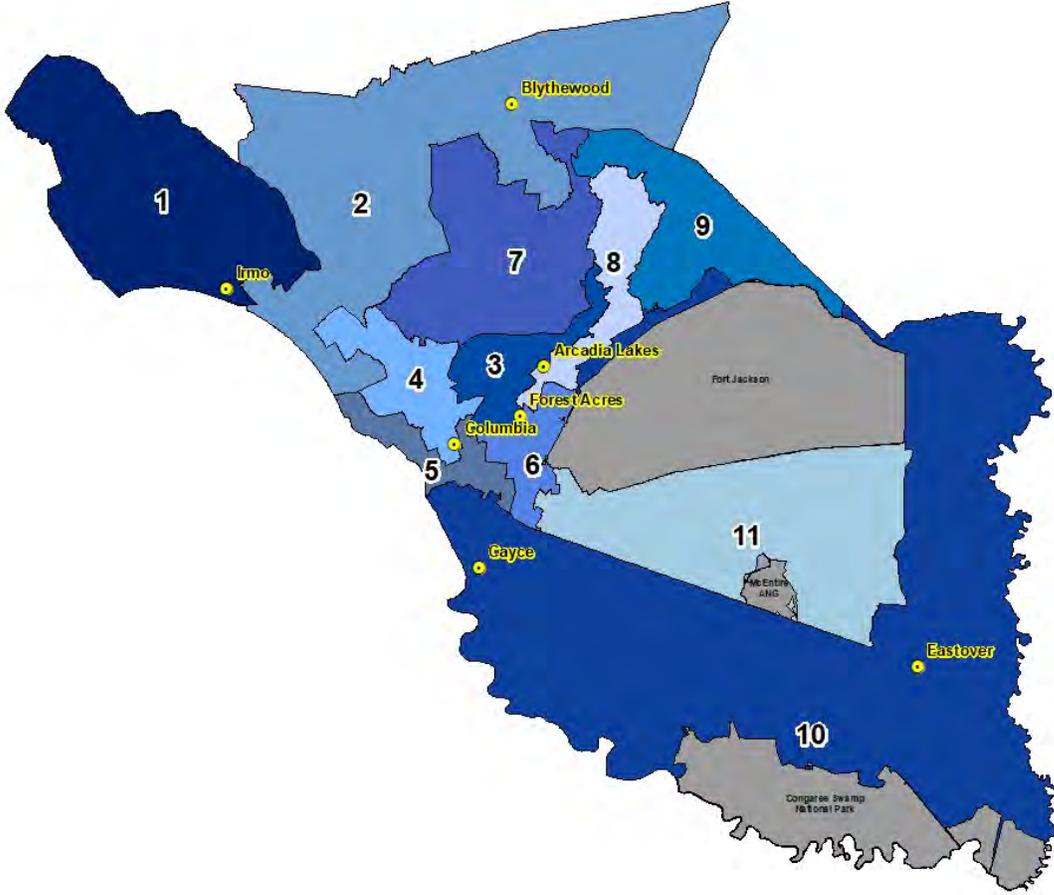


*CIP resurfacing project on Hollingwood Drive*

When the scope of a project is deemed too large for Public Works crews, a consultant and then a contractor are engaged to perform the work to County-specified standards. The Engineering Division employs inspection staff to observe and inspect work as it is being performed. The most common Capital Improvement Projects are road resurfacing and sidewalk construction. Comprehensive lists of these projects by County Council district (as well as dirt road paving), managed by the Department of Public Works and the Transportation Penny Department, follow hereafter.



# Council District Map



# Projects by Council District

## District 1



Project	Total Mileage
Resurfacing	8.29
Paving	0.73

### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Sienna Dr	1	0.64	DPW
Hawks Ridge Ct	1	0.07	DPW
Cypress Springs Ct	1	0.09	DPW
Sienna Ct	1	0.13	DPW
Cabot Bay Dr	1	0.05	DPW
Morning Breeze Ct	1	0.09	DPW
Shores Edge Dr	1	0.27	DPW
Harbors Mist Dr	1	0.07	DPW
Stockland Rd	1	0.43	DPW
Riverwalk Way	1	1.70	DPW
Billsdale Ct	1	0.03	Transportation
Billsdale Rd	1	0.22	Transportation
Chadford Rd	1	0.13	Transportation
Crossthorn Rd	1	0.11	Transportation
Lyne Cove	1	0.06	Transportation
Oak Hampton Rd	1	0.07	Transportation
Ramsbury Ct	1	0.06	Transportation
Trinity Three Cir	1	0.04	Transportation
Trinity Three Ct	1	0.04	Transportation
Trinity Three Rd	1	0.26	Transportation
Upton Grey Ct	1	0.04	Transportation
Upton Grey Rd	1	0.19	Transportation
Wells Garden Ct	1	0.17	Transportation
Anna B Ln	1	0.14	Transportation
Ballentine Point Rd	1	0.13	Transportation
Battery Rd	1	0.11	Transportation



## District 1 (cont'd)

### Resurfacing Projects, Continued:

Road Name	District	Linear Miles	Department
Blackburn Rd	1	0.11	Transportation
Blue Bird Trl	1	0.11	Transportation
Boulters Lock Rd	1	0.09	Transportation
Bronlow Dr	1	0.42	Transportation
Carolee Ct	1	0.05	Transportation
Cavendish Ct	1	0.06	Transportation
Clouser Dr	1	0.05	Transportation
Craven Arms Ct	1	0.06	Transportation
Gidding Ct	1	0.15	Transportation
Gowham Ct	1	0.15	Transportation
Grayside Rd	1	0.16	Transportation
Hawks Ridge Ln	1	0.17	Transportation
Kristyben Ct	1	0.05	Transportation
Lely Ct	1	0.08	Transportation
Maid Lynn Ct	1	0.07	Transportation
Penningail Ct	1	0.05	Transportation
Raintree Dr	1	0.25	Transportation
Southhampton Dr	1	0.50	Transportation
Sutton Way	1	0.37	Transportation

### Dirt Road Paving Projects:

Road Name	District	Linear Miles	Department
Haven Cir	1	0.24	Transportation
Mrs Mack Rd	1	0.22	Transportation
Summer Haven Dr, Ph1	1	0.05	Transportation
Howard Cooglar Rd	1	0.22	Transportation



## District 2

Project	Total Mileage
Resurfacing	2.05
Paving	0.45



### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Arborage Ct	2	0.10	Transportation
Arborland Ct	2	0.10	Transportation
Azalea Circle	2	0.10	Transportation
Evelyn Ct	2	0.07	Transportation
Grey Oak Ln	2	0.34	Transportation
North Palace Ct	2	0.09	Transportation
Oak Knoll Dr	2	0.42	Transportation
Oakleaf Circle	2	0.27	Transportation
Old Tree Ct	2	0.08	Transportation
Riverwalk Ct	2	0.26	Transportation
Oakmist Way	2	0.22	Transportation

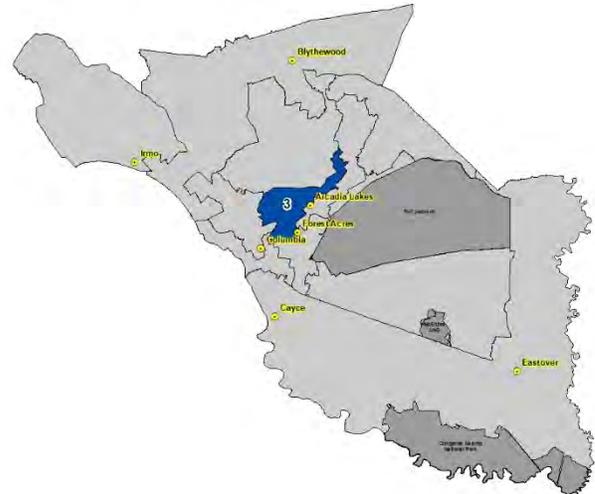
### Dirt Road Paving Projects:

Road Name	District	Linear Miles	Department
Net Dean Cir	2	0.40	Transportation
London Ave	2	0.05	Transportation



## District 3

Project	Total Mileage
Resurfacing	0.67
Paving	0.03
Sidewalk	1.2



### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Cokesbury Dr	3	0.33	Transportation
Sprott St	3	0.30	Transportation
Wales Rd	3	0.04	Transportation

### Dirt Road Paving Projects:

Road Name	District	Linear Miles	Department
Hall St	3	0.03	Transportation

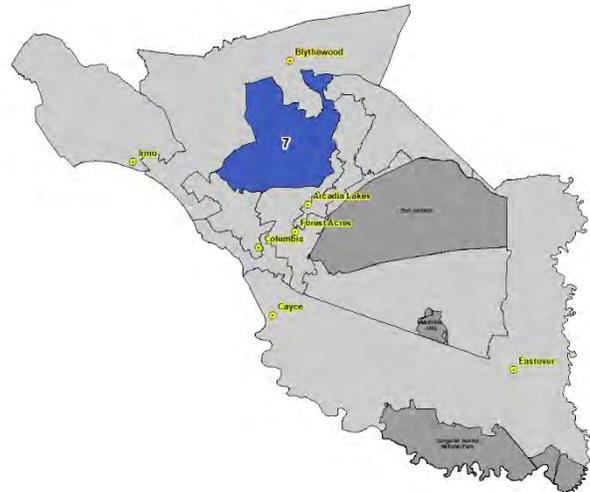
### Sidewalk Construction:

Road Name	Start	End	Length(mi)	District	Department
Harrison Rd	Two Notch	Forest Dr	1.2	3	Transportation



## District 7

Project	Total Mileage
Resurfacing	3.80



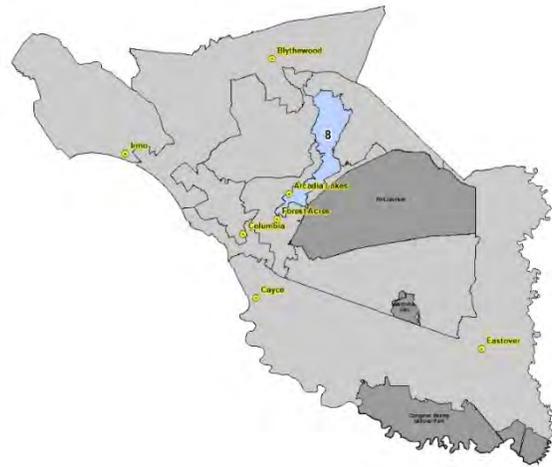
### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Bent Oak Ct	7	0.06	Transportation
Bonbon Ln	7	0.03	Transportation
Grantham Cir	7	0.06	Transportation
Warly Ct	7	0.02	Transportation
Ashley Crest Dr	7	0.33	Transportation
Bradbury Dr	7	0.50	Transportation
Clover Bay Dr	7	0.11	Transportation
Glen Green Dr	7	0.19	Transportation
Glenshire Dr	7	0.36	Transportation
Hillvale Ct	7	0.06	Transportation
Hillvale Dr	7	0.20	Transportation
Holly Ridge Ct	7	0.06	Transportation
Holly Ridge Ln	7	0.47	Transportation
Meadowlake Ct	7	0.08	Transportation
Petworth Ct	7	0.08	Transportation
Petworth Dr	7	0.19	Transportation
Savannah Dr	7	0.17	Transportation
Summer Vale Ct	7	0.16	Transportation
Whitehurst Way	7	0.67	Transportation



## District 8

Project	Total Mileage
Resurfacing	5.47
Sidewalk	2.73



### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Dowgate Hill Ct	8	0.05	Transportation
Falmouth Rise Rd	8	0.21	Transportation
Hampstead Ct	8	0.06	Transportation
Ixworth Green	8	0.09	Transportation
Lambeth Walk	8	0.07	Transportation
Newgate End	8	0.03	Transportation
Rainsborough Way	8	0.28	Transportation
South Brick Rd	8	0.27	Transportation
Birchbark Ct	8	0.16	Transportation
Brook Hollow Dr	8	0.68	Transportation
Wheatstone	8	0.14	Transportation
Almeda Dr	8	0.16	Transportation
Ashley Brook Ct	8	0.13	Transportation
Athena Dr	8	0.20	Transportation
Brickingham Way	8	0.10	Transportation
Carriage House Rd	8	0.08	Transportation
Decker Blvd	8	1.01	Transportation
Deck Park Rd	8	0.18	Transportation
Humble Dr	8	0.20	Transportation
Lost Tree Dr	8	0.37	Transportation
N. Chateau Dr	8	0.44	Transportation
Shallow Pond Rd	8	0.14	Transportation
Sommerset Dr	8	0.20	Transportation
Polo Ridge Cir	8	0.20	Transportation

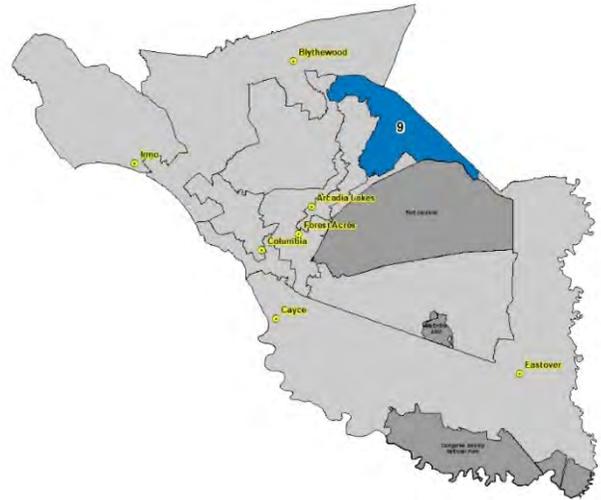
### Sidewalk Construction:

Road Name	Start	End	Length(mi.)	District	Department
Kneece Rd	Oneal Ct	Brookfield	0.52	8	DPW
Polo Rd	Mallet Hill Rd	Alpine Rd	1.7	8	Transportation
Faraway Dr	E Boundary Rd	Willoughby St	0.51	8,10	Transportation



## District 9

Project	Total Mileage
Resurfacing	4.57
Sidewalk	0.41



### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Running Fox West	9	0.28	DPW
Meadow Brook Dr	9	0.22	DPW
Lone Oak Ln	9	0.12	DPW
Hollingwood Dr	9	0.23	DPW
Hollingwood Ct	9	0.02	DPW
Bradford Ln	9	0.05	Transportation
Westport Dr	9	0.12	Transportation
Ridgetop Ct	9	0.40	Transportation
Sugar Pine Ct	9	0.09	Transportation
Foxfield Ln	9	0.06	Transportation
Huntcliff Ct	9	0.04	Transportation
Norse Way	9	0.27	Transportation
Shallow Brook Dr	9	0.74	Transportation
Siegfried	9	0.13	Transportation
Springsdan Ln	9	0.26	Transportation
Tea Olive Rd	9	0.25	Transportation
Viking Dr	9	0.46	Transportation
Watson Way	9	0.20	Transportation
Woodlands Village	9	0.43	Transportation
Polo Ridge Cir	9	0.20	Transportation

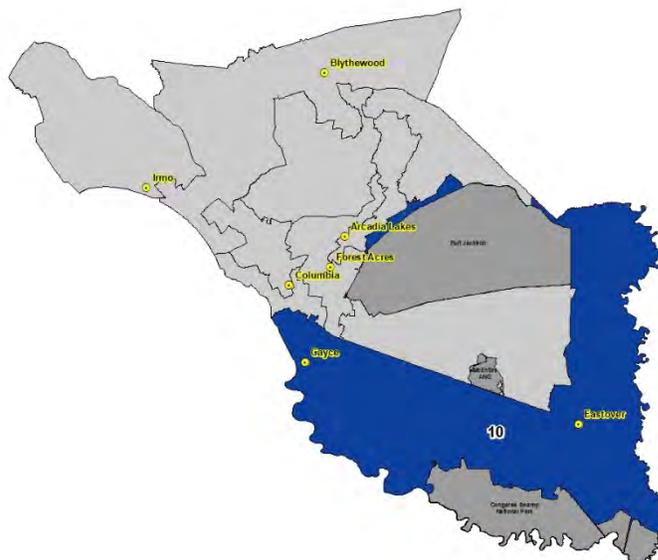
### Sidewalk Construction:

Road Name	Start	End	Length(mi.)	District	Department
Clemson Rd	Old Clemson Rd	Chimney Ridge Rd	0.41	9,10	Transportation



## District 10

Project	Total Mileage
Resurfacing	1.65
Paving	0.10
Sidewalk	0.92



### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Falbrook Ct	10	0.18	Transportation
Fincastle Ave	10	0.03	Transportation
Garland St	10	0.17	Transportation
Key Rd	10	0.37	Transportation
Spring Hope Rd	10	0.20	Transportation
Centeridge Dr	10	0.18	Transportation
Old Iron Rd	10	0.21	Transportation
S. Brighton Rd	10	0.10	Transportation
Stafford Rd	10	0.21	Transportation

### Dirt Road Paving Projects:

Road Name	District	Linear Miles	Department
Ehrlich St	10	0.10	Transportation

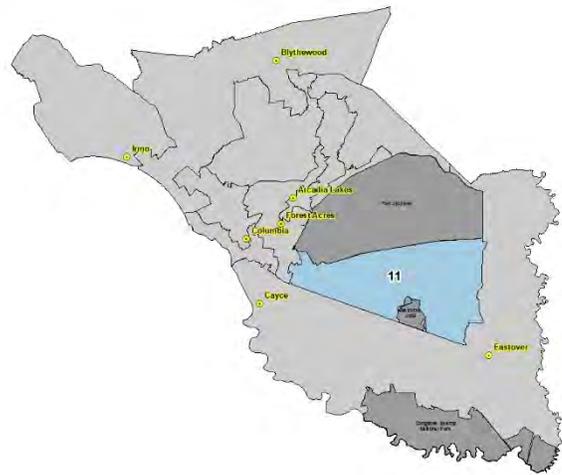
### Sidewalk Construction:

Road Name	Start	End	Length(mi.)	District	Department
Faraway Dr	E. Boundary Rd	Willoughby St	0.51	8,10	Transportation
Clemson Rd	Old Clemson Rd	Chimney Ridge Rd	0.41	9,10	Transportation



## District 11

Project	Total Mileage
Resurfacing	2.17



### Resurfacing Projects:

Road Name	District	Linear Miles	Department
Ashleys Pl	11	0.11	Transportation
Bedford Way	11	0.38	Transportation
Berkeley Forest Ct	11	0.04	Transportation
Exton Shore Dr	11	0.46	Transportation
Greys Ct	11	0.06	Transportation
Jadetree Ct	11	0.03	Transportation
Padgett Woods Blvd	11	0.10	Transportation
Ramblewood Dr	11	0.24	Transportation
Regents Ct	11	0.13	Transportation
Rockwood Rd	11	0.62	Transportation



## Conclusion

The staff of Department of Public Works is dedicated to its mission of maintenance and improvement of the County Road Maintenance System (CRMS) and its component infrastructure. Our goal is to make steady improvements in the effectiveness and efficiency with which we perform daily tasks that support our mission. We also look forward to reporting on this progress in future annual reports.

DRAFT





**Agenda Briefing**

<b>Prepared by:</b>	Michael Maloney, P.E.	<b>Title:</b>	Director
<b>Department:</b>	Public Works	<b>Division:</b>	Engineering
<b>Date Prepared:</b>	February 2, 2022	<b>Meeting Date:</b>	February 22, 2022
<b>Legal Review</b>	Patrick Wright via email	<b>Date:</b>	February 14, 2022
<b>Budget Review</b>	Abhijit Deshpande via email	<b>Date:</b>	February 14, 2022
<b>Finance Review</b>	Stacey Hamm via email	<b>Date:</b>	February 14, 2022
<b>Approved for consideration:</b>	Assistant County Administrator	John M. Thompson, Ph.D., MBA, CPM, SCCEM	
<b>Committee</b>	Development & Services		
<b>Subject:</b>	FY-22 Comprehensive Transportation Improvement Plan (CTIP)		

**RECOMMENDED/REQUESTED ACTION:**

Staff recommends that County Council approve the attached Comprehensive Transportation Improvement Plan (CTIP) for Fiscal Year 2022 (FY-22).

Request for Council Reconsideration:  Yes

**FIDUCIARY:**

Are funds allocated in the department's current fiscal year budget?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If no, is a budget amendment necessary?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

**ADDITIONAL FISCAL/BUDGETARY MATTERS TO CONSIDER:**

All funding for the projects being performed by DPW was secured during FY-21 and will not impact the Department's FY-22 operating budget.

**COUNTY ATTORNEY'S OFFICE FEEDBACK/POSSIBLE AREA(S) OF LEGAL EXPOSURE:**

None.

**REGULATORY COMPLIANCE:**

The preparation and submission of the annual CTIP is in accordance with Chapter 21 of The Richland County Code of Ordinances.

**MOTION OF ORIGIN:**

There is no associated Council motion of origin.

<b>Council Member</b>	Click or tap here to enter text.
<b>Meeting</b>	Click or tap here to enter text.
<b>Date</b>	Click or tap here to enter text.

#### STRATEGIC & GENERATIVE DISCUSSION:

This is the second Comprehensive Transportation Improvement Plan (CTIP) created by the Richland County Department of Public Works (DPW) staff. The annual plan was first created in 2020 and presented to Council for approval. Our purpose remains unchanged: to improve the process of restoring and preserving the County Road Maintenance System (CRMS) using analytical methods. DPW operates in conjunction with the Transportation Penny Program, adding to the miles of roadway replaced and preserved each year in Richland County through the capital project efforts of both departments.

The FY-21 CTIP was a key first step in implementing a strategic plan for the long term maintenance of our County Road Maintenance System. This program was started to prevent further delay in restoring pavements and to increase the ability of County staff to seek outside funding source such as "C" Funds. The approval of the CTIP enables the County Engineer to seek funding from CTC, an essential source of funding for the County's transportation infrastructure maintenance and improvement.

#### ADDITIONAL COMMENTS FOR CONSIDERATION:

The plan integrates the list of projects being designed and constructed in FY-22 by the Transportation Penny Department along with the planned capital projects to be executed by the Department of Public Works (DPW).

Department of Public Works Staff will generate a five-year plan based on the Pavement Management Study (PMS) conducted in September 2021. This study will provide the pavement condition of every paved road in the CRMS. With this information, we can better plan the distribution of projects throughout the eleven county districts.

#### ATTACHMENTS:

1. Fiscal Year 2022 (FY-22) Comprehensive Transportation Improvement Plan (CTIP)



County Road Maintenance System (CRMS)

Fiscal Year 2022 (FY-22) Annual Comprehensive Transportation Improvement Program (CTIP)

Updated: Dec. 1, 2021

References: (a) *Richland County Code of Ordinances*, Chapter 21  
(b) Richland County Department of Public Works County Road Maintenance System Management Standard Operating Procedures, June 30, 2020

Enclosures: (1) RDM maintenance area road type / mileage breakdown  
(2) County Council district road type / mileage breakdown  
(3) IGA road type / small municipality / mileage breakdown  
(4) Bridges / type / location  
(5) Rail crossings / type / location  
(6) Traffic / crossing lighted signals  
(7) Sidewalks

Section 1 – Introduction:

The Department of Public Works has completed its first year of a coordinated effort to account for, document, maintain and improve the Richland County Road Maintenance System (CRMS). Last fiscal year's 2021 Annual Comprehensive Transportation Improvement Program (CTIP) was the first of its kind and represented a point of departure for improved safety, quality, coordination, accountability and organizational efficiency. The department's second Pavement Management Study (PMS), undertaken to assess the condition of all County-maintained paved roads, is nearing completion. This study will provide a Pavement Condition Index (PCI) for each road that will be used to develop a five-year plan to address preservation, resurfacing and reconstruction of the CRMS.

All projects listed herein are currently funded.

## Section 2 – System Description:

The Richland County Road Maintenance System (CRMS) is composed of road and road-related infrastructure that is, by assigned mission or intergovernmental agreement (IGA), owned and/or maintained by the Department of Public Works (DPW). Such infrastructure is, in some way, available for public use and represents a variety of levels of development, design and construction source.

## Section 3 – System Data:

- Road mileage (unpaved – prescriptive easement) 161 miles
- Road mileage (unpaved – right-of-way) 44 miles
- Road mileage (paved) 621 miles
- Road mileage (paved – incoming ROW in progress) 5 miles
- RDM maintenance area breakdown See Enclosure (1)
- County Council district breakdown See Enclosure (2)
- IGA road mileage (by surface type/by small municipality) See Enclosure (3)
- Bridges (by type and location) See Enclosure (4)
- Rail crossings See Enclosure (5)
- Traffic and crossing lighted signals See Enclosure (6)
- Sidewalk mileage See Enclosure (7)



## Section 4 – Programs / Functions:

### Department of Public Works

#### Roads & Drainage Maintenance (RDM)

- Citizen Service Request (CSR) response/corrective maintenance (Level of Service - LOS) – CSRs are generated from services requested through the County Ombudsman’s Office. Responsibilities include receiving and responding to requests for service and other related inquiries from County residents. Typical level of activity is 6,000 CSRs received annually (500 per month). The typical backlog of pending CSRs, which varies by season, weather events, and other factors beyond departmental control, is usually 100 or fewer.
- Emergency Response (LOS) – Requests of an emergent nature include: buried drainage pipe failure/cave-in, downed stop signs, animal carcasses within CRMS right-of-way and easements, potholes, leaning signs, manhole lids missing or askew, excess sand or grit on a paved road, tree hazards and downed trees in roads. These must be assigned immediately, the hazard mitigated as soon as possible, and all work completed within a matter of hours or days.
- Force Account (“in-house” staff and equipment) Projects (LOS) – Sometimes roads and drainage infrastructure deficiencies require more than routine maintenance to address. Multiple drainage pipe joint failures, undersized drainage pipes, failed drainage structures, and outdated infrastructure may require a level of engineering analysis and construction effort that exceeds basic levels of maintenance. The County’s Engineering and Stormwater Management Division staff work in close cooperation with the Projects section of the Roads & Drainage Maintenance Division to design, manage and construct smaller-scale projects that support the CRMS. There is typically a backlog of eight projects of varying sizes and scopes.
- Preventive Maintenance (LOS) – Maximize preventive maintenance (PM) of all types based on observations by employees in the field in order to ensure properly maintained infrastructure and reduce the need for CSRs.
- Sign Maintenance (LOS) – Installation, maintenance and repair of street name signs throughout the unincorporated County and IGA municipalities for all public and private roads and streets. Installation, maintenance and repair of directional and warning signs within the CRMS. Because of their vital nature, sign-related requests are assigned a high priority.
- Street Sweeping (LOS) – Deploy the street sweeper to remove grit, sediment and debris from the CRMS, County-paved parking lots, and the Jim Hamilton-L.B. Owens Airport (CUB) pavement in order to preserve pavement, prevent debris from entering the drainage system, improve appearance and control Foreign Object Debris (FOD). Achieve an employment goal of 40 percent (780 hours of operation over a 52-week period). Note: A second street sweeper is planned to be added to the RDM fleet during FY-22 in a joint effort with the Stormwater Management Division.
- Vactor Truck Services (LOS) – Deploy the two vactor trucks in order to ensure the drainage system, which supports the CRMS and area drainage, is free of blockages and



debris. Priority of employment is: 1) response to CSRs, 2) Preventive Maintenance (PM), and 3) neighborhood drainage system maintenance as identified by the Stormwater Management Division. Achieve an employment goal of 40 percent (780 hours of operation per truck over a 52-week period).

### Engineering (EGR)

- County Transportation Committee (CTC) – The Department of Public Works acts as the lead agency to coordinate with the County Transportation Committee (CTC). The CTC provides “C” Fund Grants for CRMS transportation projects to include:
  - resurfacing
  - sidewalk installation
  - dirt road paving
  - other transportation improvements

See the FY-21 through FY-25 Capital Improvement Plan (CIP) in Section 7 for specific projects in progress or planned for future construction. The Richland County liaison to the CTC is the County engineer.

- Pavement Marking Maintenance (LOS) – The Department of Public Works maintains a limited inventory of pavement markings throughout the County on some CRMS paved roads that meet the criteria for such markings. One Stop service requests will be investigated by Engineering Division staff to evaluate the functionality and standard compliance, along with condition and serviceability. Markings that need installation or repair/replacement will be added to the annual Pavement Marking Maintenance List for repair/replacement by the on-call service contractor. One Stop citizen notification and updates shall occur per Ombudsman policy and procedure. The current annual budget is \$20,000.
- Signal Maintenance (LOS) – The Department of Public Works maintains an inventory of traffic signals and flashing school zone lights. Both systems are managed by the Engineering Division staff under direction and supervision of the County engineer. Once notified, staff shall investigate any device issues (alignment, system failures, light outage and damage) that could affect traffic safety. On-call maintenance contractors shall be available when required to make immediate repairs. This contractor is also responsible for installing overhead road signage at intersections as directed by the County. Renewal of contracts and maintenance budgets are required and must be updated on an as-needed basis. The current annual budget is \$20,000.
- Traffic Calming – The Department of Public Works installs speed humps on paved roads within the CRMS- and SCDOT-maintained public roads. The installation of traffic-calming devices shall be considered only when it has been determined by Engineering Division Staff that the roadway meets all criteria and after a petition and supporting documentation have been submitted for review. A Citizen Point of Contact (POC) shall be assigned to represent the neighborhood or subject street. The POC must be willing to work with DPW staff throughout the traffic-calming device request process. Upon receiving a request, DPW staff will review the subject street to ensure it meets all



criteria referenced in the traffic-calming warrants. The department performs traffic studies and installs approximately 15 speed humps per year.

- Unpaved Road Dust Suppression (LOS) – The Department of Public Works maintains over 200 miles of unpaved roads. Applying calcium chloride for dust suppression on these roads reduces suspended dust particles that affect traffic safety and property. An annual list of roads is developed and staffed through the Engineering Division and the Roads & Drainage Maintenance Division and are sprayed with one application of calcium chloride by a contracted road treatment service. The current annual budget is \$90,000 for approximately 70,000 gallons of application. This will treat approximately 40 miles of unpaved roads (20 percent of the unpaved portion of the CRMS).

**Special Services (SS)**

- Roadside Litter Pickup (LOS) – The Special Services Division employs inmate labor work crews to police public road rights-of-way, including the CRMS- and SCDOT-maintained roads. Unfortunately, the COVID-19 pandemic eliminated the inmate labor pool, so roadside litter pickup was severely curtailed during FY-21 and the start of FY-22. Some level of effort was accomplished through the use of more expensive temporary employees, but litter pickup has resumed with the availability of inmates from the Department of Corrections.

**Other County Departments**

**Transportation Penny Department**

The Transportation Penny Tax Program, approved by the residents of Richland County in 2012, provides funding for a wide range of transportation improvements throughout the County. The following are projects anticipated for completion during FY-22:

Dirt Road Paving:

Road Name	District	Linear Miles
Tall Oaks Dr	1	0.18
Maggie Hipp Rd	2	0.08
Bow String Rd	9	0.34
Robert James Rd	10	0.22
South Dr	10	0.32
Rosa Dowdy Ln	10	0.12
Rocky Rd	11	0.17
Barkley Rd	11	0.24
Dogwood Shores Ln	11	0.42
Lake Dogwood Cir S	11	0.13
Wider Rd	11	0.13
<b>Total</b>		<b>2.36</b>

Road Resurfacing:

Road Name	District	Linear Miles
Longtown Rd W	7/9	0.05
Averill Lane	1	0.36
Bucktail Way	1	0.38
Kip Ct	1	0.19
Little Hampton Rd	1	0.03
Osbourne Ln	1	0.04
Ramblewood Dr	1	0.77
Redington Way	1	0.95
S. Royal Tower Dr	1	0.54
Staffwood Ct	1	0.77
Staffwood Dr	1	0.04
Stonemede Dr	1	0.73
W. Royal Tower Dr	1	1.21
Wyncliff Ct	1	0.90
Belk Ct	2	0.47
Carolina Pines Dr	2	0.18
Harper Park Rd	2	0.36
Northpoint Blvd	2	0.03
Oak Knoll Dr	2	0.07
Olde Springs Rd	3	0.05
Garner Ln	4	0.36
Bent Oak Ct	7	0.06
Briercliff Dr	7	0.04
Radcot Ct	8	0.19
Rosewood Dr	8	0.86
Salisbury Ln	8	0.42
Ventura Ct	8	0.15
Winding Creek Ln	8	1.23
Bombing Range Rd	9	0.40
Columbia Club Dr E	9	0.53
Muirfield Ct W	9	0.25
Woodlands W	9	0.10
Ashleys Pl	11	0.36
Bedford Way	11	0.19
Berkeley Forest Ct	11	0.35
Berkeley Forest Dr	11	0.36



Road Name	District	Linear Miles
Candlewood Dr	11	0.42
Cardington Dr	11	0.18
Exton Shore Dr	11	0.24
Flowerwood Dr	11	0.28
Greys Ct	11	0.11
Jadetree Ct	11	0.82
Jadetree Dr	11	0.33
Kildare Dr	11	0.04
Mountainbrook Dr	11	0.18
Padgett Woods Blvd	11	0.22
Pear Tree Cir	11	0.11
Prince Charles Ct	11	0.10
Ragsdale Dr	11	0.74
Raintree Ct	11	0.08
Raintree Ln	11	0.40
Regeants Ct	11	0.05
<b>Total</b>		<b>18.27</b>

Sidewalk Construction:

Road Name	Start	End	Linear Miles
Alpine Rd	Two Notch	Percival Rd	2.4
Leesburg Rd	Garners Ferry	Semmes Rd	3.7
Clemson Rd	Two Notch Rd	Percival Rd	1.1
Sunset Dr	Elmhurst Rd	River Dr	0.75
<b>Total</b>			<b>7.95</b>

Section 5 – Resources:

<input type="checkbox"/> Road Maintenance FY-21 Fund Balance (end-of-year actual)	\$11,299,115
<input type="checkbox"/> RDM FY-22 Operating Budget	\$ 7,942,778
<input type="checkbox"/> "C" Fund FY-21 Uncommitted Balance	\$ 3,876,545
<input type="checkbox"/> "C" Fund FY-21 Forecasted Apportionment	\$ 5,267,600
<input type="checkbox"/> "C" Fund FY-21 Non-recurring Earmark	\$ 2,390,263



## Section 6 – Goals:

### **DPW**

- Funding source – Work with County Council and County Administration to ensure an adequate, reliable, steady and uninterrupted funding source for Roads and Drainage Maintenance operations and improvement projects in light of the recent state Supreme Court decision and subsequent lawsuit against the County.
- Interdepartmental coordination – Improve interdepartmental coordination with other stakeholders, especially the Transportation Penny staff, in order to ensure that all projects are coordinated, mutually supporting, and maintain or enhance area drainage.
- Interdepartmental coordination – Improve interdepartmental coordination with other stakeholders, especially the Community Planning and Development Department, in order to ensure that updated development standards are properly applied and newly developed infrastructure is of sufficient quality.

### **RDM**

- Process review – Working with the staff of the Information Technology (IT) Department, fully develop and implement the reporting component of the Work Order System (WOS) in order to establish performance benchmarks and better analyze activity, service and productivity.
- Personnel management – Emphasize the prompt hiring of qualified applicants to fill vacancies as they occur. Develop and hire a master equipment operator to promote training, professional development and skill quality of equipment operators.
- Facility improvement – Continue to develop the Blythewood area work camp that services the northern portion of the County.

### **EGR**

- Capital improvements – Prepare a five-year CRMS Capital Improvement Plan (CIP) for paving and resurfacing of County roads, installation of sidewalks, and other transportation improvements using data from the Pavement Management Study (PMS).
- Right-of-way acquisition – The right-of-way administrator has acquired approximately 38 of the 97 total abandoned roads. The goal is to acquire the remaining 59 roads in FY-22. We will also process deeds for roads and drainage from approximately 10 new subdivisions accepted into the CRMS through the New Development Department.
- Railroad crossings safety improvement – Replace the existing substandard rail crossing on Hobart Road and with new safer rail crossing through the realignment of Hobart Road and addition of signalized gates.
- Right-of-way transfer – Transfer at least 50 percent of County-owned road right-of-way (11.8 miles) from County ownership to the small municipality in which they are located.
- New personnel – Replace the retiring Transportation associate with a well-qualified individual.
- Adhere to the new Land Development Standards that will go into effect Feb. 1, 2022.



Section 7 – Capital Improvement Plan (CIP):

Item Description	Proposed Funding Source	Biennium			Biennium		Total
		FY21	FY22	FY23	FY24	FY25	
Unpaved Roadway Repair-Design	RMF	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Unpaved Roadway Repair-Construction	RMF	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,000,000
Sidewalk Capital Improvement	RMF	\$350,000					\$350,000
Miscellaneous Road Improvements	RMF	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Road Resurfacing	RMF		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$4,000,000
Rollover-previous year	RMF	\$1,600,000		unknown	unknown	unknown	\$1,600,000
Pavement Preservation	"C" Funds	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000
Resurfacing Roads	"C" Funds	\$1,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$9,000,000
New Sidewalks	"C" Funds	\$1,000,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000
New Sidewalk-Design	TAP		\$100,000	\$50,000	\$100,000	\$50,000	\$300,000
New Sidewalk-Construction	TAP			\$1,000,000		\$1,000,000	\$2,000,000
<b>Totals</b>		<b>\$5,000,000</b>	<b>\$4,650,000</b>	<b>\$5,600,000</b>	<b>\$4,650,000</b>	<b>\$5,600,000</b>	<b>\$25,500,000</b>

Note 1: Road Maintenance Fund (RMF)/Transportation Assistance Program (TAP)

Note 2: \*See Section 4 – Programs/Functions: Other County departments/Transportation Penny Department for planned Fiscal Year 2022 (FY-22) paving, resurfacing and sidewalk construction projects planned under that program.



FY-22 Capital Improvement Plan (CIP):

**Pavement Preservation**

Budget: \$600,740

Funding for the following roads was obtained during FY-21. Preservation of these roads is planned for FY-22.

Road Name	District	Linear miles
Bamboo Grove Ct	1	0.09
Baywood Ct	1	0.12
Harbors Mist Dr	1	0.08
Shores Edge Dr	1	0.12
Water Pointe Ln	1	0.09
Buckwood Dr	2	0.04
Greyhound Ln	2	0.10
Grey Duck Ln	2	0.22
Safari Way	2	0.07
Catalina Ct	3	0.10
Oakley Cir	3	0.07
Oakley Ct	3	0.04
Oakley Dr	3	0.30
Saxonbury Dr	3	0.06
Scarlet Ct	3	0.12
Sunnydale Ct	3	0.04
Sunnydale Dr	3	0.20
Dean Hall Ln	6	0.16
Hampton Trace	6	0.51
Rosebank Dr	6	0.28
Ballbridle Ln	7	0.30
Cabinteely Ct	7	0.03
Glimerton Ct	7	0.07
Gorebridge Ct	7	0.07
Hillfoots Ct	7	0.03
Stillorgan Ct	7	0.06
View Dr	7	0.66
Cold Branch Dr	8	1.70
Holliday Rd	9	0.45
Village Farm Rd	9	0.18
Wood Duck Rd	9	0.52
Abbott Rd	10	0.15



Road Name	District	Linear Miles
Bluff Industrial Blvd	10	0.34
Saddlebrook Ln	11	1.42
<b>Total</b>		<b>8.81</b>

### Road Repair and Resurfacing

Budget: \$2,104,148

Funding for the following roads was obtained during FY-21. Construction is anticipated to be complete during FY-22.

Road Name	District	Lane Miles
Cotting Ct	1	0.07
Dunleith Ct	1	0.10
Dunleith Way	1	0.37
Laurent Ct	1	0.12
Laurent Way	1	0.81
Steeple Ridge Rd	1	1.36
Bear Rock Dr	2	0.08
Bowhunter Dr	2	0.66
Coyote Ln	2	0.07
Duck Pt	2	0.03
Grouse Ct	2	0.03
Hunters Run Dr	2	0.23
Labrador Dr	2	0.17
Ramsgate Dr	2	0.32
Ranger Ln	2	0.05
Rolling Hills Cr	2	0.02
Rolling Hills Dr	2	0.32
Abney Estates Dr	7	0.42
Abney Wood Ct	7	0.06
Valley Estates Dr	7	0.51
Winding Brook Loop	7	0.21
Hunters Pond Dr	8	1.24
<b>Total</b>		<b>7.25</b>



### Sidewalk Construction

Budget: \$1,917,539

Funding for the following sidewalks was obtained in FY-19 and FY-20. Construction is anticipated during FY-22.

Road Name	Start	End	Linear Miles
Longreen Pkwy	Clemson Rd	Longtown Rd	1.64
Spring Park	Hobart Way	Longreen Parkway	1.04
Greenhill Parish	Upland Hill Ln	Catawba Trail Elementary	0.27
<b>Total</b>			<b>2.95</b>

### Sidewalk Capital Maintenance

In addition to new sidewalk construction, it is recommended that \$60,000 be applied to the maintenance of existing sidewalks within the County Road Maintenance System this year. Areas for maintenance will be identified by County staff and prioritized to address safety concerns.

### Dirt Road Improvement – Planning

Budget: \$100,000

Road Name	District	Linear Miles
Jacquelyn Powers Cir	1	0.22
Stanley Fort Rd	1	0.06
Hardy Entzminger Rd	2	0.42
Jordon Rd	2	0.16
Wooten Rd	7	0.38
Chappell Creek Ln	10	0.22
Lassiter Jacobs Rd	10	0.77
S Crosshill Cir	10	0.38
Sara Neal Rd	10	0.22
Pond Arch Rd	11	0.21
Wattsland Rd	11	0.49
<b>Total</b>		<b>3.94</b>



# Enclosures 1-7

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**Department of Public Works**

County Road Maintenance System (CRMS)

Fiscal Year 2022 Annual Maintenance and Improvement Comprehensive Plan

Updated: June 30, 2021

Enclosure (1) RDM Maintenance Area Road Type / Mileage Breakdown

Unpaved Roads

RDM Maintenance Area

	County Owned (Public r/w)		Prescriptive Easement		All County Unpaved	
	Length (ft.)	Length (miles)	Length (ft.)	Length (miles)	Total Length (ft.)	Length (miles)
West	54,707.17	10.36	151,188.75	28.63	205,895.91	39.00
South	105,818.31	20.04	436,765.28	82.72	542,583.60	102.76
North	89,334.15	16.92	251,025.01	47.54	340,359.16	64.46
<b>Total length</b>	<b>249,859.63</b>	<b>47.32</b>	<b>838,979.04</b>	<b>158.90</b>	<b>1,088,838.67</b>	<b>206.22</b>

Paved Roads

RDM Maintenance Area

	County Owned		Municipal Owned		All County Paved	
	Length (ft.)	Length (miles)	Length (ft.)	Length (miles)	Total Length (ft.)	Length (miles)
West	659,625.75	124.93	106,706.56	20.21	766,332.31	145.14
South	419,476.24	79.45	0.00	0.00	419,476.24	79.45
North	2,037,057.13	385.81	34,418.10	6.52	2,071,475.24	392.32
<b>Total length</b>	<b>3,116,159.12</b>	<b>590.18</b>	<b>141,124.66</b>	<b>26.73</b>	<b>3,257,283.78</b>	<b>616.91</b>



County Road Maintenance System (CRMS)  
 Fiscal Year 2022 Annual Maintenance and Improvement Comprehensive Plan  
 Updated: June 30, 2021

Enclosure (2) County Council District Road Type / Mileage Breakdown

Unpaved Roads  
 Council Districts

	County Owned (Public ROW)		Prescriptive Easement		All County Unpaved	
	Length (ft.)	Length (miles)	Length (ft.)	Length (miles)	Total Length (ft.)	Length (miles)
1	51,286.38	9.71	145,169.70	27.49	196,456.08	37.21
2	31,099.60	5.89	174,235.75	33.00	205,335.36	38.89
3	2,411.42	0.46	4,264.55	0.81	6,675.97	1.26
4	914.95	0.17	0.00	0.00	914.95	0.17
5	2,356.69	0.45	1,368.29	0.26	3,724.97	0.71
6	159.65	0.03	0.00	0.00	159.65	0.03
7	42,083.71	7.97	49,235.79	9.32	91,319.51	17.30
8	3,196.41	0.61	2,598.74	0.49	5,795.14	1.10
9	10,692.15	2.03	24,998.53	4.73	35,690.68	6.76
10	43,862.04	8.31	385,527.35	73.02	429,389.38	81.32
11	61,796.63	11.70	51,580.35	9.77	113,376.98	21.47
<b>Total Length</b>	<b>249,859.63</b>	<b>47.32</b>	<b>838,979.04</b>	<b>158.90</b>	<b>1,088,838.67</b>	<b>206.22</b>

Paved Roads  
 Council Districts

	County Owned		Municipal Owned		All County Paved	
	Length (ft.)	Length (miles)	Length (ft.)	Length (miles)	Total Length (ft.)	Length (miles)
1	530,279.87	100.43	103,036.94	19.51	633,316.80	119.95
2	361,421.86	68.45	11,786.57	2.23	373,208.42	70.68
3	134,739.48	25.52	5,566.84	1.05	140,306.32	26.57
4	23,062.20	4.37	0.00	0.00	23,062.20	4.37
5	8,756.55	1.66	0.00	0.00	8,756.55	1.66
6	14,644.41	2.77	1,215.22	0.23	15,859.63	3.00
7	467,726.35	88.58	19,519.10	3.70	487,245.46	92.28
8	485,377.31	91.93	0.00	0.00	485,377.31	91.93
9	641,163.19	121.43	0.00	0.00	641,163.19	121.43
10	161,613.88	30.61	0.00	0.00	161,613.88	30.61
11	287,374.02	54.43	0.00	0.00	287,374.02	54.43
<b>Total Length</b>	<b>3,116,159.12</b>	<b>590.18</b>	<b>141,124.66</b>	<b>26.73</b>	<b>3,257,283.78</b>	<b>616.91</b>



County Road Maintenance System (CRMS)  
 Fiscal Year 2022 Annual Maintenance and Improvement Comprehensive Plan  
 Updated: June 30, 2021

Enclosure (3) IGA Road Type / Small Municipality / Mileage Breakdown

County Roads Within IGA Municipalities as of June 30, 2021

<b>Municipality</b>	<b>Paved Roads (miles)</b>	<b>Unpaved Roads (miles)</b>	<b>Total (miles)</b>
Arcadia Lakes	1.57	0.00	1.57
Blythewood	10.57	3.53	14.09
Cayce	0.00	1.58	1.58
Eastover	0.94	0.42	1.36
Forest Acres	4.89	0.20	5.09
Irmo	25.76	1.70	27.45
<b>Total (miles)</b>	<b>43.73</b>	<b>7.42</b>	<b>51.15</b>

\*Roads are County-maintained by either IGA, County ownership/public ROW, or prescriptive easement.

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County Road Maintenance System (CRMS)  
Fiscal Year 2022 Annual Maintenance and Improvement Comprehensive Plan  
Updated: June 30, 2021

Enclosure (4) Bridge / Type / Location

Location	Type
Old Garners Ferry Road at Mill Creek	Concrete slab on piers
White House Road at Gills Creek	Concrete slab on piers
Chinquapin Road at Stoops Creek	Open bottom culvert
Raintree Drive at ditch crossing	Open bottom culvert
Beechwood Lane at ditch crossing	Open bottom culvert

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Enclosure (5) Rail Crossings / type / location

Road Atlas Map Grid	Name of Road	Road Type	Entity in Charge of Inspections	Type of RR Line Crossed	Own r/w on Road	Municipality	SCDOT Crossing	Comments
49B4	Lykesland Trail	Unpaved	County	Main railroad track	Yes	County	723733S	
27D4	Vine Street	Paved	County	Side railroad track	Yes	County	634637U	Crossing between Rosewood Drive and Brookwood Drive
34F1	Mount Pilgrim Church Road	Unpaved	County	Main railroad track	No	County	715899B	
72B2	Gus Lane	Unpaved	County	Main railroad track	No	County	632650B	
32D3	Pine Wedge Drive	Paved	County	Main railroad track	Yes	County	715908X	
27D4	Vine Street	Paved	County	Side railroad track	Yes	County	634638B	Crossing Southeast of Brookwood Drive
37B5	Mauney Drive	Paved	County	Side railroad track	Yes	County	904637R	
27D4	Garland Street	Paved	County	Side railroad track	Yes	County	634642R	Crossing between Rosewood Drive and Brookwood Drive
27D4	Duval Street	Paved	County	Side railroad track	Yes	County	634640C	Crossing between Rosewood Drive and Brookwood Drive
27D4	Duval Street	Paved	County	Side railroad track	Yes	County	634641J	Crossing southeast of Brookwood Drive
27D4	Rosewood Drive	Paved	County	Side railroad track	Yes	County	634636M	
27D4	Garland Street	Paved	County / Columbia	Side railroad track	Part	County and Columbia	634643X	County owns approach from west side of crossing, RR r/w is
27D4	Oakdale Drive	Paved	County	Side railroad track	Yes	County	634644E	Crossing between Rosewood Drive and Brookwood Drive
05B4	Lynn McCartha Road	Unpaved	County	Main railroad track	No	County	843360B	
05B4	Walter McCartha Road	Unpaved	County	Main railroad track	No	County	843359G	
31D4	Frank Dale Road	Unpaved	County	Main railroad track	No	County	715917W	Road is small connector between Frank Dale Road and Gunter Circle
35D4	Cadia Drive	Unpaved	County	Main railroad track	No	County	634296D	
32C2	Boomer Road	Unpaved	County	Main railroad track	No	Blythewood	715910Y	
4.90E+04	Century Oaks Lane	Unpaved	County	Main railroad track	No	County	632196S	
35A4	Fontaine Center Drive	Paved	County	Main railroad track	Yes	County	640941L	
62A2	Third Street	Unpaved	County	Main railroad track	No	County	723729C	RR Crossing is beyond County ownership, connects to Edmonds Farm Road
3.20E+06	Hobart Road	Unpaved	County	Main railroad track	Part	County	715906J	Main RR Crossing west of Wilkinson Drive
27F4	Andrews Road	Unpaved	County / Columbia	Side railroad track	No	County and Columbia	904635C	County unpaved road - RR right of way is within City of Columbia
<b>Not on SCDOT (2011) List</b>								
27D3	Olympia Avenue	Paved	County / Columbia	Main railroad track	Part	County and Columbia		County owns approach from west side of crossing
3.20E+06	Hobart Road	Unpaved	County	Side railroad track	Part	County		RR Crossing at side railroad line
3.20E+05	Wooten Road	Unpaved	County	Main railroad track	No	County		
45F1	Fashion Drive	Paved	County	Main railroad track	Yes	County		



Enclosure (6) Traffic / Crossing Lighted Signals

Traffic Signals

Intersection Location	RDM Maintenance Area
Fashion and Forum Dr	North
Summit Parkway at Summit Ridge	North
Summit Commons at Summit Parkway	North

School Zone Flashing Signal

School	RDM Maintenance Area
HE Corley Elementary	West
Summit Parkway Middle	North



County Road Maintenance System (CRMS)  
 Fiscal Year 2022 Annual Maintenance and Improvement Comprehensive Plan  
 Updated: June 30, 2021

Enclosure (7) County-Maintained Sidewalks

RDM Maintenance Area

Maintenance Area	Length (ft.)	Length (miles)
West	266,872.29	50.54
South	60,133.59	11.39
North	798,496.18	151.23
<b>Total Length</b>	<b>1,125,502.06</b>	<b>213.16</b>

Council District

District	Length (ft.)	Length (miles)
1	254,795.25	48.26
2	123,622.30	23.41
3	12,021.50	2.28
4	147.84	0.03
5	0.00	0.00
6	3,187.02	0.60
7	181,235.28	34.32
8	293,362.36	55.56
9	196,996.93	37.31
10	7,499.42	1.42
11	52,634.17	9.97
<b>Total Length</b>	<b>1,125,502.06</b>	<b>213.16</b>

\*Length does not include subdivisions with sidewalks built since 2016



**RICHLAND COUNTY  
DEPARTMENT OF PUBLIC WORKS**

400 Powell Road  
Columbia, SC 29203



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*07 December 2021 Regular Session Council Meeting Motion: "Amending "Fireworks" Ordinance"  
The Honorable Derrek Pugh, District 2*

- a. It shall be unlawful for any person to use, discharge, shoot or ignite any fireworks or similar explosives within Richland County between the hours of 10:00 p.m. and 9:00 a.m., except as provided in section (re: flares) below or as authorized pursuant to section (re: public exhibitions) below. This provision shall not prohibit the discharge or lighting of sparklers or similar pyrotechnic products which generate no appreciable noise, at any hour.
  1. An exception shall be granted for the hours to be extended on the Fourth of July and New Year's Eve such that the discharge of fireworks shall be prohibited after the hours of 12:30 a.m. on July 5 and January 1, respectively.
- b. *Discharge restrictions.* It shall be unlawful to:
  1. Negligently, recklessly or intentionally direct the discharge of fireworks towards any structure, animal, or person.
  2. Intentionally detonate fireworks upon the land of another without express prior consent;
  3. Offer for sale or to sell permissible fireworks to children under the age of fourteen (14) years unless accompanied by a parent; or
  4. To explode or ignite fireworks within six hundred (600) feet of any church, hospital, or public school;
  5. To ignite or discharge any permissible fireworks within or throw the same from any motor vehicle;
  6. To place or throw any ignited fireworks into or at any motor vehicle.
- c. *Authority to seize devices.* The fire or law enforcement official shall seize, take, remove, or cause to be removed all stocks of fireworks or explosives held in violation of this section.
- d. Any violation of this section is punishable by up to thirty (30) day and/or a fine not to exceed one hundred dollars (\$100). Each violation of this section may be punished as a separate offense.
- e. The fire official may issue a permit authorizing the use of fireworks or a public display of fireworks or similar explosives. The fire official may, in his or her discretion, grant or refuse to grant the permit, or may grant the same subject to the restrictions and limitations of this ordinance as well as any other restrictions or limitations as her or she deem to be in the interest of public safety in connection with such display or exhibit.
- f. Nothing in this article shall be read to prohibit the use of flares or similar devices necessary for the safe operation of railroads, buses, trucks or other vehicles within the county.