

**Coordinated Infrastructure Grant Application**

**Grant Applicant:** Greenville County **Date Submitted:** 03/10/2022

**Project Title:** Regenerative Stormwater Conveyance at Cedar Falls Park

|                                   |   |
|-----------------------------------|---|
| <b>Source of Funds Requested:</b> | <input checked="" type="checkbox"/> RIA State Grant <i>ONLY</i><br><input type="checkbox"/> State Revolving Funds (SRF) All Principal Forgiveness (PF) <i>ONLY</i><br><input type="checkbox"/> RIA State Grant + SRF PF<br><input type="checkbox"/> Funding consideration in whole or in part from either RIA or SRF PF |
|-----------------------------------|---|

*I understand that the SRF program involves federal funds and may have different implementation requirements than RIA state grants. If awarded, in whole or in part with SRF funds, we agree to comply with the federal requirements.*

Signature: \_\_\_\_\_  
Chief Executive Official (Elected or Administrative)

For SRF PF consideration, you must complete the attached RIA application **IN FULL**. Submission of the RIA grant application will replace the SRF Project Questionnaire (PQ) for PF projects. In addition, please complete the following as appropriate for any project that may involve SRF PF funds.

**1. National Pollutant Discharge Elimination (NPDES) permit #(s) \_\_\_\_\_**

No Discharge (ND) permit # \_\_\_\_\_

2. Nonpoint source or stormwater abatement costs associated with Best Management Practices (BMPs). To see BMPs guidance on DHEC website [click this link](#).  
 BMPs Cost \$ \_\_\_\_\_ % of Total Cost \_\_\_\_\_

3. RIA application includes a description of (check all that apply):  
 How the project addresses an enforcement issue, if applicable  
 Water quality parameters that the project will positively affect  
 How the project improves or protects the water quality in the project area

**4. DHEC Water System ID #(s) \_\_\_\_\_**

1. DHEC Water System ID #(s) \_\_\_\_\_  
 2. System has an approved Source Water Protection Plan  Yes  No

3. The RIA application includes the following documentation to address SRF PF requirements (check all that apply):  
 How the project protects or improves public health or helps to achieve/maintain compliance with drinking water standards  
 Evidence of deficiencies (for example, water sampling data or sanitary survey)  
 How the project addresses an enforcement issue, if applicable

**APPLICATION CHECKLIST**

**Application: See Grant Application Instructions (attached)**

- Application Forms and Certification (*with original signature*)
- Narrative

**Application Attachments (attach as appropriate)**

1. Preliminary Engineering Cost Estimate
2. Maps:
  - Project Location and Service Area
  - Existing Infrastructure
  - Proposed Improvements
3. Program Documentation:
  - Basic Infrastructure** (*attach as appropriate*)
    - DHEC Sanitary Survey – For all Water Projects
    - DHEC Compliance Evaluation Inspection– For all Sewer Projects
    - Notice of Violation or Consent Order
    - Corrective Action Plan
    - Other "Need" Documentation
    - Operating Budget and Actual Revenues/Expenses
    - Capital Improvement Plan
    - Residential Customer User Rates
  - Economic Infrastructure** (*attach as appropriate*)
    - Economic Development/Jobs**
      - Jobs & Capital Investment Commitment
      - Planned or Approved Incentives
    - Product Development**
      - Industrial Site/Park Public Ownership Documentation
      - Industrial Site/Park Master Plan with utilities and capacity
    - System Capacity**
      - DHEC Sanitary Survey – For all Water Projects
      - DHEC Compliance Evaluation Inspection– For all Sewer Projects
4. Funding and Other Commitments
  - Local Funds - Required
  - Other Funds
  - New Customers (70% documented commitment to connect)
  - Property ownership certification (Easements/ROW/Real Property)
  - Agreement to apply on behalf of an eligible entity, if applicable

Submit **two hard copies of the signed application documents and attachments** (1 original and 1 duplicate),  
**AND** a PDF version of the application and attachments.  
**Applications must be received by 5:00 pm on the due date. No postmarks will be accepted.**

| Applicant Information                                      |   |  |  |  |
|--|---|--|--|--|
| <b>Applicant Name:</b>                                     | Greenville County   |  |  |  |
| <b>Mailing Address:</b>                                    | 301 University Ridge Suite 3900   |  |  |  |
| <b>City, State and Zip:</b>                                | Greenville, SC 29601  |  |  |  |
| <b>State Legislative Districts:</b>                        | Senate: 5-9, 12-13  |  | House: 10, 16-28, 35-36  |  |
| <b>Applicant Type:</b>                                     | <input type="checkbox"/> Local Government<br><input type="checkbox"/> Special Purpose District<br><input type="checkbox"/> Public Works Commission<br><input type="checkbox"/> Joint Municipal System   |  | <input type="checkbox"/> Applicant is submitting on behalf of a not-for-profit water/sewer company or other eligible entity ( <i>attach written agreement</i> )<br><br>Name: _____   |  |
| Project Summary  |   |  |  |  |
| <b>Project Title:</b>                                      | Regenerative Stormwater Conveyance at Cedar Falls Park  |  |  |  |
| <b>Project Summary:</b><br><i>(Limit to 2/3 sentences)</i> | A stormwater BMP retrofit project that aims to improve water quality, decrease runoff, and generally improve the user experience within park in an area with just two public parks within adjoining census areas spanning over 100 sq. mi. and containing 3,783 households. |  |  |  |
| <b>Project Location:</b><br><i>(Be specific)</i>           | On County-owned Cedar Falls Park in southern Greenville County, approximately 2 miles south of Hwy 418 and 9 miles west of I-385.   |  |  |  |
| <b>County Development Status/Census Tract(s):</b>          | <input checked="" type="checkbox"/> Tier I or II County<br><input type="checkbox"/> Tier III or IV County   |  | Project Census Tract(s): 32.01/32.02/31.04   |  |
| Funding Request  |   | Grant Category   |  | Type of Project                          |
| <b>RIA Funds Requested:</b>                                | \$ 173,304.00   | <input checked="" type="checkbox"/> Basic Infrastructure<br><br><input type="checkbox"/> Economic Infrastructure | <input type="checkbox"/> Water<br><input type="checkbox"/> Sewer<br><input checked="" type="checkbox"/> Stormwater Drainage<br><input checked="" type="checkbox"/> Other (Describe): |  |
| <b>Other State Funds:</b>                                  | \$ 0.00   |  |  |  |
| <b>Federal Funds:</b>                                      | \$ 0.00   |  |  |  |
| <b>Local Funds:</b>  | \$ 57,768.00  |  |  |  |
| <b>Total Project Funding:</b>                              | \$ 231,072.00   |  |  |  |
| Contact Information  |   |  |  |  |
|  | Name  | Title  | Phone  | Email Address                            |
| <b>Chief Elected or Administrative Official:</b>           | Joseph Kernell  | County Administrator   | 864.467.7105   | CountyAdministrator@greenvillecounty.org |
| <b>Local Project Contact:</b>                              | Judy Wortkoetter, P.E.  | County Engineer  | 864.467.4610   | JWortkoetter@greenvillecounty.org        |
| <b>Local Financial Contact:</b>                            | Hesha Gamble, P.E., PTOE  | Assistant County Administrator   | 864.467.7010   | HGamble@greenvillecounty.org             |
| <b>Engineer/Consultant:</b>                                | Woolpert, Inc<br>Zach Smoot, P.E.   | Project Engineer   | 864.315.3909   | Zach.Smoot@Woolpert.com                  |

| Project Budget                          |               |         |        |               |
|---|---------------|---------|--------|---------------|
|   | RIAA          | Other   | County | Total         |
| <b>Construction</b>                     |               |         |        |               |
| Expected RSC cost                       | \$ 173,304.00 | \$      | County | \$ 173,304.00 |
|   | \$            | \$      |        | \$ 0.00       |
|   | \$            | \$      |        | \$ 0.00       |
|   | \$            | \$      |        | \$ 0.00       |
|   | \$            | \$      |        | \$ 0.00       |
|   | \$            | \$      |        | \$ 0.00       |
|   | \$            | \$      |        | \$ 0.00       |
|   | \$            | \$      |        | \$ 0.00       |
|   | \$            | \$ 0.00 |        | \$ 0.00       |
| <b>Construction Total</b>               | \$ 173,304.00 | \$ 0.00 |        | \$ 173,304.00 |
| <b>Percent of RIA and Other Funding</b> | 100%          | 0%      |        | 100%          |

*\*Percent of Other Funding: If RIA funds are requested applicants in Tier I and II Counties are required to provide at least 25% of the total construction costs.*

| Project Budget  |               |              |        |               |
|---|---------------|--------------|--------|---------------|
|   | RIAA          | Other        | County | Total         |
| <b>Non-Construction</b>   |               |              |        |               |
| Engineering   |               | \$ 37,768.00 | County | \$ 37,768.00  |
| Permits   |               | \$ 0.00      | County | \$ 0.00       |
| Land Acquisition  |               | \$ 0.00      | N/A    | \$ 0.00       |
| Legal or Administrative   |               | \$ 0.00      | N/A    | \$ 0.00       |
| Other: Const. Admin.  |               | \$ 20,000.00 | County | \$ 20,000.00  |
| Other:  |               | \$           |        | \$ 0.00       |
| <b>Non-Construction Total</b>                                     |               | \$ 57,768.00 |        | \$ 57,768.00  |
| <b>Total Project Funding**</b><br>Construction + Non-Construction | \$ 173,304.00 | \$ 57,768.00 |        | \$ 231,072.00 |
| <b>Percent of RIA and Other Funding</b>                           | 75%           | 25%          |        | 100%          |

*\*\*Total Project Funding should match Total Project Funding on Page 2 of this application.*

| Project Benefit  | Residential | Business    |
|--|-------------|-------------|
| Total Customers/Taps <i>(existing and new)</i> to be Served by Project                         | 3,783       | 0           |
| Number of New Customers/Taps to be Served by Project   | 0           | 0           |
| Number of New Customers/Taps Committed to Connect <i>(minimum of 70% of all new customers)</i> | 0           | 0           |
| Number of Jobs <i>(Economic Development/Jobs Project)</i>                                      | New: 0      | Existing: 0 |
| New Capital Investment <i>(Economic Development/Jobs Project)</i>                              | \$ 0.00     |             |

**Project Schedule & Readiness**

| Ready to Go Status              | Actual or Planned Completion                            | Permits  | Obtained   |
|---------------------------------|---|--|--|
| Preliminary Engineering Report  | Date: 10/01/2021 <input type="checkbox"/> NA            | DHEC   | <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA |
| Final Design                    | Date: 03/01/2022 <input type="checkbox"/> NA            | DOT  | <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA |
| Acquisition                     | Date: _____ <input checked="" type="checkbox"/> NA      | Railroad   | <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA |
| Permits                         | Date: _____ <input checked="" type="checkbox"/> NA      | Wetlands   | <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA |
| Construction Bid Opening        | Date: 06/01/2022 <input type="checkbox"/> NA            | Other: _____   | <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA |
| Construction Start              | Date: 07/01/2022 <input type="checkbox"/> NA            | <i>If permit in hand, select Y. If needed and not yet obtained, select N. If permit not needed, select NA.</i> |  |
| Construction Completion         | Date: 09/01/2022 <input type="checkbox"/> NA            |  |  |
| Grant Closed                    | Date: 10/01/2022 <input checked="" type="checkbox"/> NA |  |  |
| Are multiple contracts planned? | <input type="checkbox"/> Y <input type="checkbox"/> N   |  |  |

| Property Acquisition   | Actual or Planned Completion | Quantity             |
|--|------------------------------|----------------------|
| <input type="checkbox"/> Easements/ROW   | Date: _____                  | Number needed: _____ |
| <input type="checkbox"/> Real Property   | Date: _____                  | Number needed: _____ |
| <input checked="" type="checkbox"/> NA   |                              |                      |
| <i>Attach certification of public ownership for all easements, ROW or real property already acquired for this project.</i> |                              |                      |

**Certification**

*As the Chief Executive Official for the applicant, I certify that the information submitted in this request and the attachments are complete and correct and that the applicant has authorized the submission of this grant application for SC Rural Infrastructure Authority funding to assist in carrying out the project described herein. I concur with the commitments implied and contained in this application and agree to abide by the program requirements as well as any future grant agreements. The applicant certifies that it has complied with state law with respect to the submission and contents of this application and has disclosed any conflicts of interest with regard to the project.*

|   |                      |
|---|----------------------|
| Joseph Kernell  | County Administrator |
| <b>Name of Chief Executive Official<br/>(Elected or Administrative)</b> | <b>Title</b>         |
| Signature   | Date                 |

## Application Forms and Required Attachments

To ensure the proposed project complies with program guidelines (including eligibility, match and budget/cost feasibility), please review the Program Strategy on our website before completing the application.

**Application Forms** – must be accurate and filled out completely. They include:

- Cover Page/Application Checklist;
- Applicant Information, Project Summary, Funding Request and Contact Information;
- Project Budget; and
- Project Benefit, Schedule and Certification.

**Application Narrative**– Attach a brief narrative about the project that addresses each of the following:

### NEED

- Explain the need for this project including a summary of the current condition, capacity and deficiencies of existing facilities.
- Describe the number of customers/taps directly impacted by each problem identified as well as the frequency and severity of the problem.
- Describe actions taken or planned with local/other resources to address this or similar system problems.
- For **Emergency** Infrastructure projects, also describe the circumstances that have created an imminent threat, when it occurred and why immediate action is required.

### SERVICE AREA

- Describe the project's service area and explain how it was determined.

### PROJECT DESCRIPTION

- Provide a detailed description of the entire project, including all project activities regardless of funding source.
- Explain how the project will be carried out, particularly where multiple funding sources are involved.
- Indicate the name of the proposed subrecipient who will carry out any portion of the project and describe the subrecipient's project responsibilities.

### FEASIBILITY

- Identify how the project will solve the problem or improve conditions.
- If the project does not completely solve a system or area-wide problem, indicate plans and proposed funding for the remaining need and a timeframe.
- Justify the total construction cost based on the number of customers directly benefitting. If new services are proposed, justify construction costs based on the number of new customers.
- Identify any regional or cost saving alternatives considered.
- Address the proposed project schedule and any anticipated or potential delays.
- Explain the applicant's ability to operate and maintain system improvements.

### VIABILITY

- Provide the following items as a measure of system viability.
  - Operating budget compared to actual revenues and expenditures;
  - Capital improvement plan;
  - Extent of cash reserves in the system to handle repairs and emergencies;
  - Extent of system transfers to the general fund;
  - The average residential bill (per 5,000 gallons); and
  - Any recent and planned rate increases and the expected timeframe.

**BENEFITS/IMPACT**

- ☑ Quantify and explain the number of direct and indirect beneficiaries of the project including the number of households and businesses that will benefit.
- ☑ Explain how the project will address one or more of the following:
  - Resolve regulatory or health issues;
  - Improve quality of life;
  - Provide a regional solution that will lead to greater system viability;
  - Contribute to the area's economic competitiveness; or
  - Support economic development, including the new jobs and capital investment expected and the timeframe.
- ☑ Include any additional information that should be considered in evaluating the proposed project activities.

**Attachments** – In addition to the Application Forms and Narrative, applicants must include the following attachments in the order specified below when submitting a grant application.

**Attachment 1: Preliminary Engineering Cost Estimate-A** *PER may be attached.*

- ☑ Include a detailed cost estimate for each activity (Prepared within the past 12 months.)

**Attachment 2: Project Location and Service Area Maps** *(Use symbols and color-coding to identify activities.)*

- ☑ Attach a county or municipal road/street map identifying the project's service area and census tracts.
- ☐ Attach a map showing the location, size and/or capacity of existing infrastructure within the project area.
- ☑ Attach a map showing the location, size and/or capacity of all proposed project improvements within the project service area.

**Attachment 3: Program Documentation-** Attach all applicable documentation for this project.

**BASIC INFRASTRUCTURE**

- ☐ For water projects, a copy of the most recent DHEC Sanitary Survey.
- ☐ For sewer projects, results of the most recent DHEC Compliance Evaluation Inspection.
- ☐ Any Consent Orders or Notice of Violations from federal or state agencies, as well as the approved (or proposed if not yet approved) Corrective Action Plan.
- ☐ Any other relevant documentation (i.e., test results, customer complaints, repair logs, photos, etc.) of the frequency, quantity and severity of the problem.
- ☐ Residential customer user rates.
- ☐ Operating budget compared to actual revenues and expenditures.
- ☐ Capital improvement plan.

**ECONOMIC INFRASTRUCTURE**

Economic Development/Jobs

- ☐ A letter of commitment from a company official for the number of jobs to be created/retained as well as the planned amount of capital investment within 5 years.
- ☐ Documentation of the source and amount of all planned or approved incentives.

System Capacity

- For water projects, a copy of the most recent DHEC Sanitary Survey.
- For sewer projects, results of the most recent DHEC Compliance Evaluation Inspection.

Product Development

- Documentation of public ownership of the industrial site or park.
- A master plan of the industrial site or park showing utilities and capacity.

**Attachment 4: Funding and Other Commitments**

- A letter of commitment (with original signature) from the chief elected/administrative official for all construction funding required to implement the project.
- A letter of commitment from the chief elected/administrative official for all non-construction costs (including engineering, permitting and acquisition) including the source and amount of funding to be provided and when funds will be available.
- Evidence of new customer commitments to connect, if applicable.
- Certification of public ownership for all necessary easements/rights-of-way or other real property already acquired for this project.
- Written agreement to apply on behalf of another eligible entity, if applicable.

**Submit two hard copies (1 original and 1 duplicate) of the unbound application and attachments to RIA AND submit the application and all attachments as a PDF file (by email or flash drive). An original application must have a pen and ink signature.** Postmarked applications will not be accepted. Failure to submit the application as required by the deadline could delay consideration of your project or result in a determination that the application is incomplete. Applications must be submitted to:

**SC Rural Infrastructure Authority  
1201 Main Street, Suite 1600  
Columbia, SC 29201**

**Email address: [info@ria.sc.gov](mailto:info@ria.sc.gov)**

Application Due Dates

**Round 1: September 13, 2021**

**Round 2: March 14, 2022**

*NOTE: These instruction sheets DO NOT need to be submitted with the grant application.*



**APPENDIX A:  
PROJECT NARRATIVE AND ESTIMATE**

### Project Description and Need

Cedar Falls Park is a county park in southern Greenville County, located about two miles south of Hwy 418 and 9 miles west of I-385. The park is immediately adjacent to the Reedy River, a river with a history of environmental abuse, intense regulation, and recovery. The park includes a playground, large open space, many walking paths, public restroom facilities and at its southern end, access to the river. The area serves an estimated 3,783 households in its immediate vicinity (characterized by bordering census districts) and is the only sizeable public park within a 100-square mile area.

The park's existing infrastructure condition is best characterized as well-kept. When this park was designed, the goal of any stormwater system was to efficiently move water through and away from the area with little regard for water quality or existing natural systems. Today, water quality is of great concern in Greenville and in the Reedy River watershed especially, as it is one of only three proposed or approved nutrient TMDLs in the state. This project aims to mitigate this high-nutrient condition. A location towards the northern end of the park has the area and relief to install a stormwater BMP known as a Regenerative Stormwater Conveyance (RSC). Acting as bioretention cells in series, this structure not only conveys water, but reduces both runoff volume and runoff pollutants in the process. The County employs these and other similar BMPs throughout its jurisdiction, actively installing these where space and budget permit on their own properties, most notably in the Reedy River watershed (where this RSC will also reside). Additionally, the County plans to add a public education component to this park once the upgrades are complete. This will not only inform the public but, provide examples for local contractors and design professionals of how effective, cost efficient and visually appealing these natural conveyance structures can be. What's more, the location of this BMP on a regularly maintained park will help ensure that routine maintenance occurs, and any needed repairs are caught early.

Greenville is no stranger to water quality BMPs. Aside from its monitoring and policy efforts, the County plans to continue to invest in stormwater and the quality of its surface waters. Last March (2021), the County completed an RSC on a property it had already purchased via its flood buyout program. On March 4<sup>th</sup>, an additional project went out to bid for Shoeless Joe Jackson Park. This project includes multiple BMPs and will treat as much as 97 percent of its 232-acre drainage area. In October of 2020, the County completed a 1,000-ft stream improvement project near Mills Mill on Brushy Creek (North). Each project has benefited nearby residents, the Reedy River watershed, and those in the County as a whole, as each of these projects have been aimed to not only educate those using the area but introduce local designers and contractors to new and creative options in how to convey, detain, and treat stormwater runoff, as opposed to simply conveying it, untreated, in pipes underground.

### Project Service Area

The project's service area is Greenville County Census Tracts 32.01, 32.02 and 31.04, which contain or border the park. This is the only significant park contained in these tracts and is the closest public park for 3,783 households in the area. Using this number of residents as a baseline for those directly benefiting, the cost per household will be approximately \$61 for the design and installation of the BMP. However, the water quality and ecosystem benefits extend far beyond the reach of the park and fit into the overall nutrient reduction goals within the Reedy River watershed, making this two-pronged park improvement project an efficient use of County resources.

### Project Schedule

The project schedule is expected to take about two months and will be performed around potential delays and timed to optimize final plantings throughout the site. Potential delays, such as rain or high flow events are expected to occur, and if they occur at a frequency that the project cannot be completed on time, extension into October is possible and may be preferred regarding planned tree and vegetation planting, depending on temperatures. However, the project cost should not be affected by delays due to the way the County plans to structure the bid documents.

### Project Estimate

The extreme fluctuations in materials and fuel costs that are happening due to disruptions in the global supply chain from COVID-19 and other ongoing geopolitical events have made it difficult to accurately estimate installation. However, an estimated project cost of \$231,072 and a requested share of \$173,304 for the construction of the BMP from the Rural Infrastructure Authority is expected to account for cost increases over the next 6-9 months. Any overages will be absorbed by the County, and should the project come in under the estimated amount, only the costs incurred in the RSC's construction will be requested from RIA.

**APPENDIX B:  
MAPS**

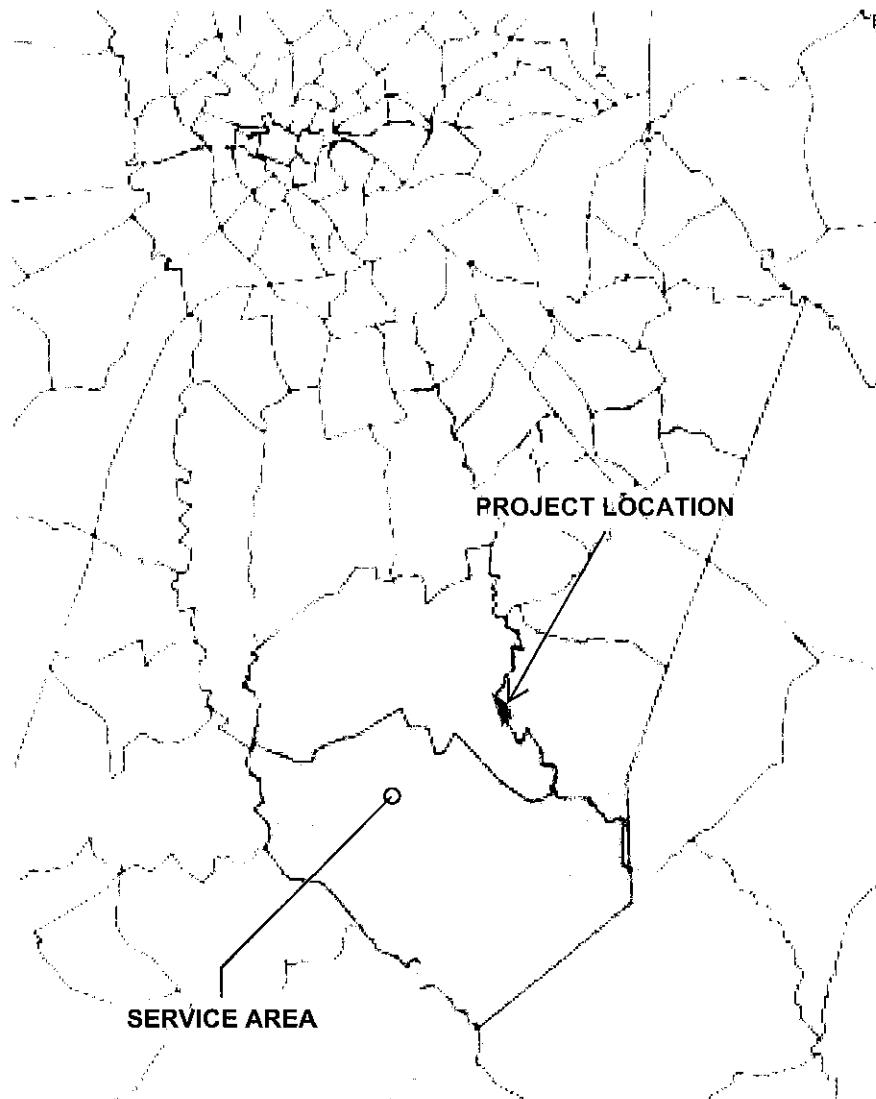


Figure B.1 - Project location and service area

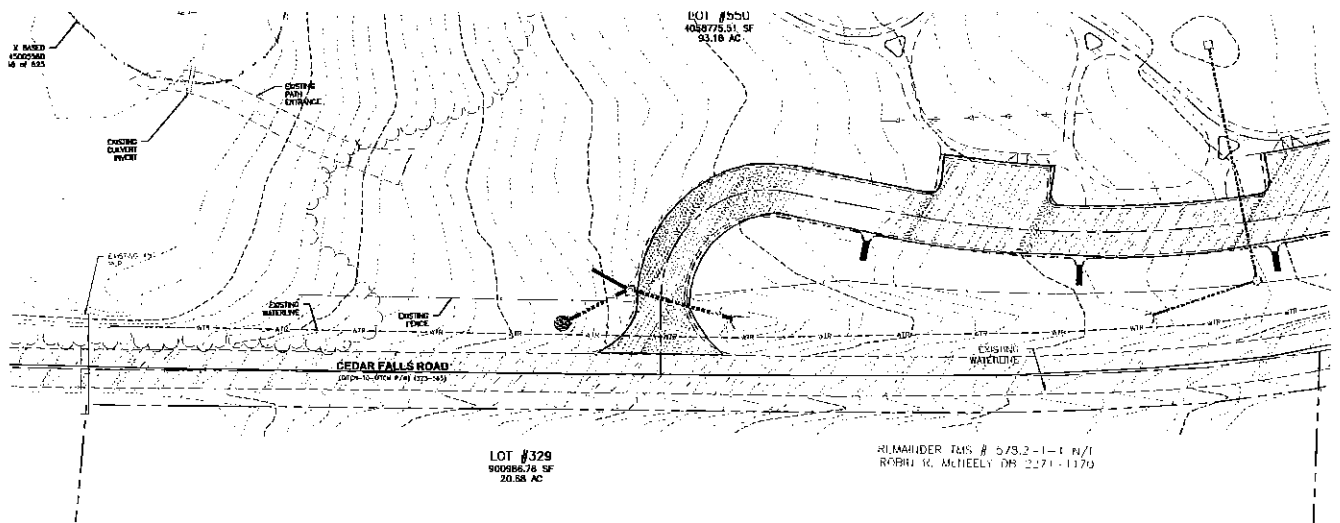
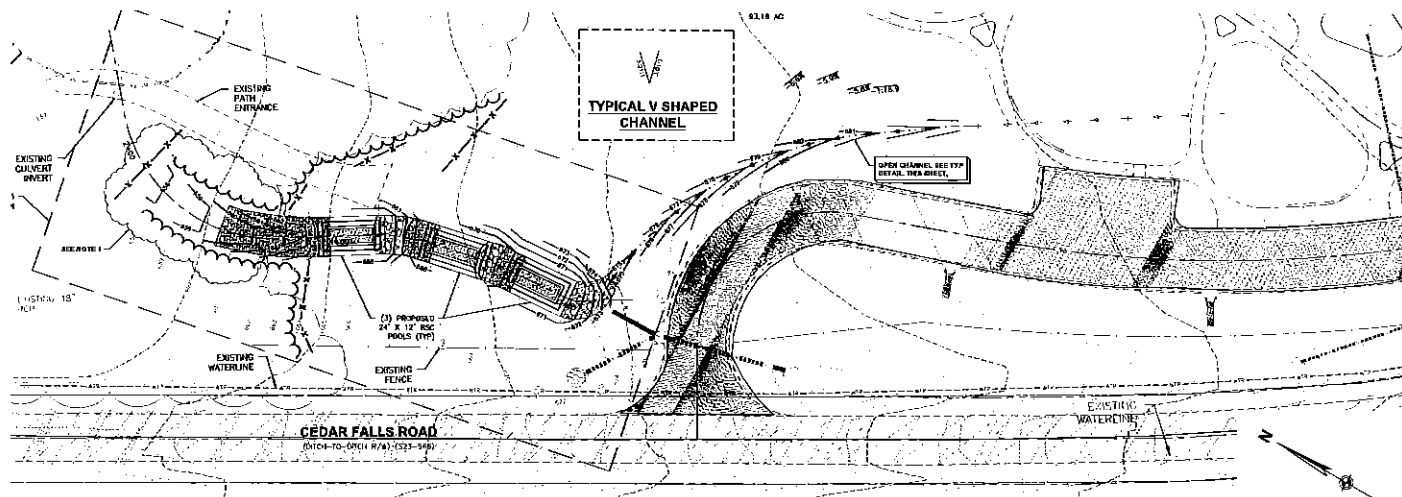
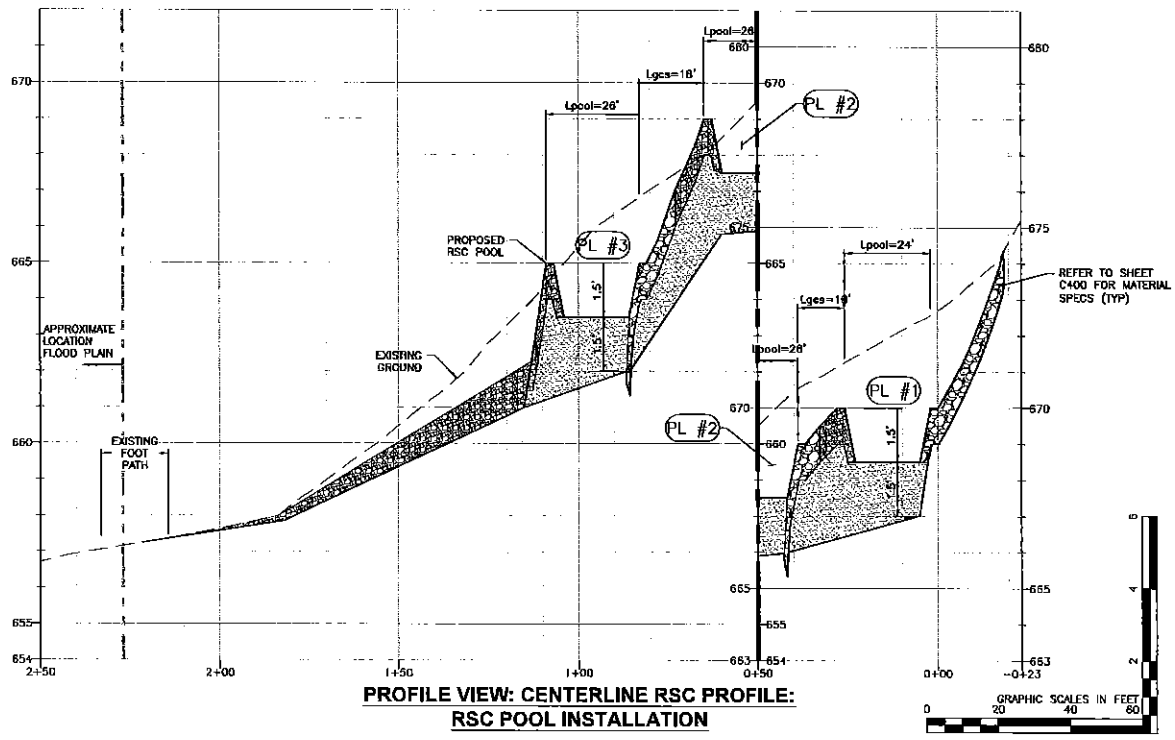


Figure B.2 - Existing infrastructure.



**NOTE:**  
 1. CONTRACTOR SHALL COORDINATE WITH COUNTY ESC INSPECTOR AND ENSURE THE MINIMUM DISRUPTION TO THE EXISTING TREES AND TREELINE AS NECESSARY TO COMPLETE THE WORK

LOT #329  
 90996.75 SF  
 28.88 AC



**PROFILE VIEW: CENTERLINE RSC POOL INSTALLATION**

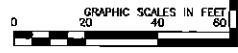


Figure B.3 - Proposed improvements.

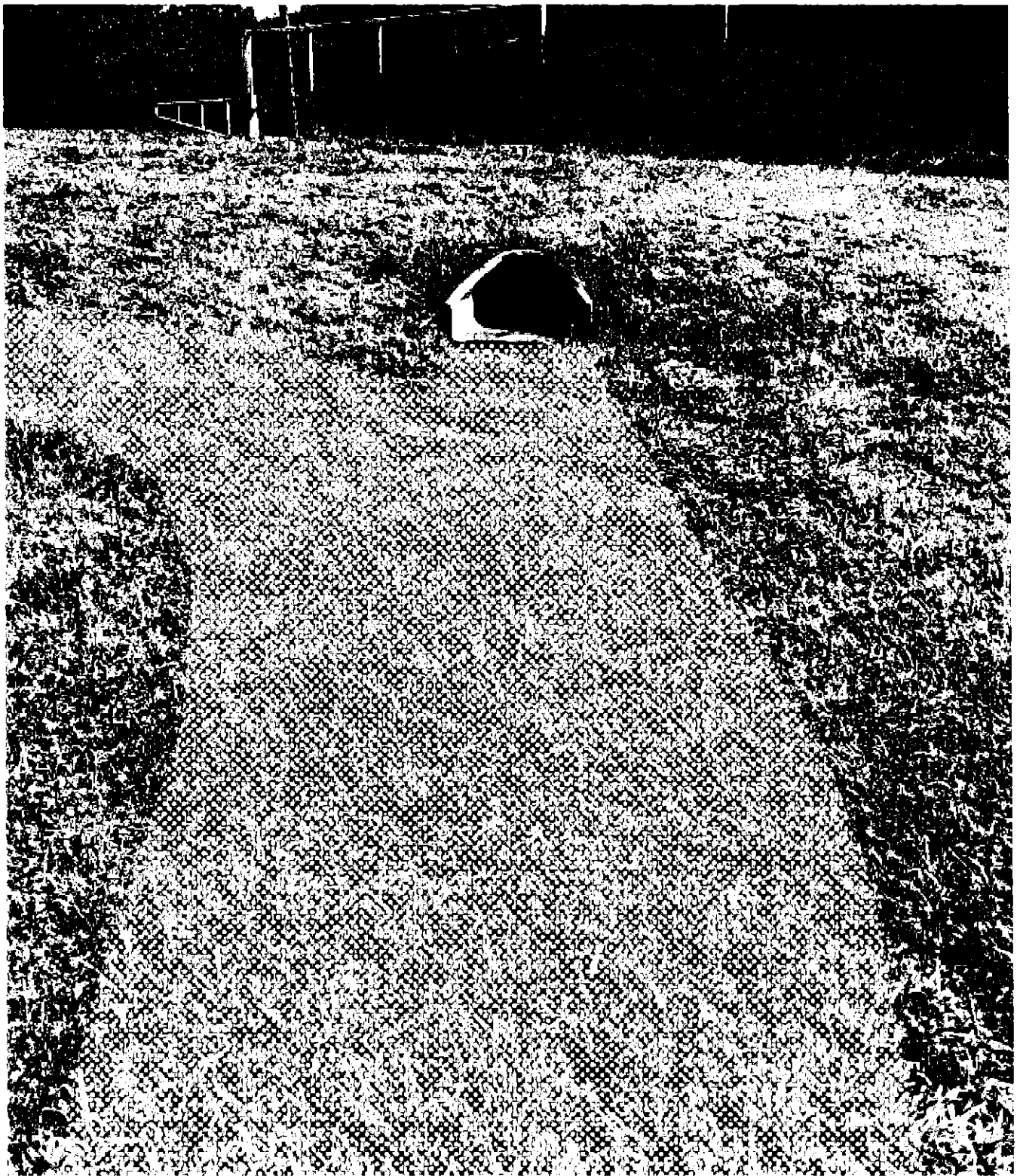


Figure B.4 - Current condition and area to be improved (hatched)



**APPENDIX C:  
FUNDING AND PREVIOUS AND  
ONGOING COMMITMENTS**



Figure C.1 - Property ownership documentation.

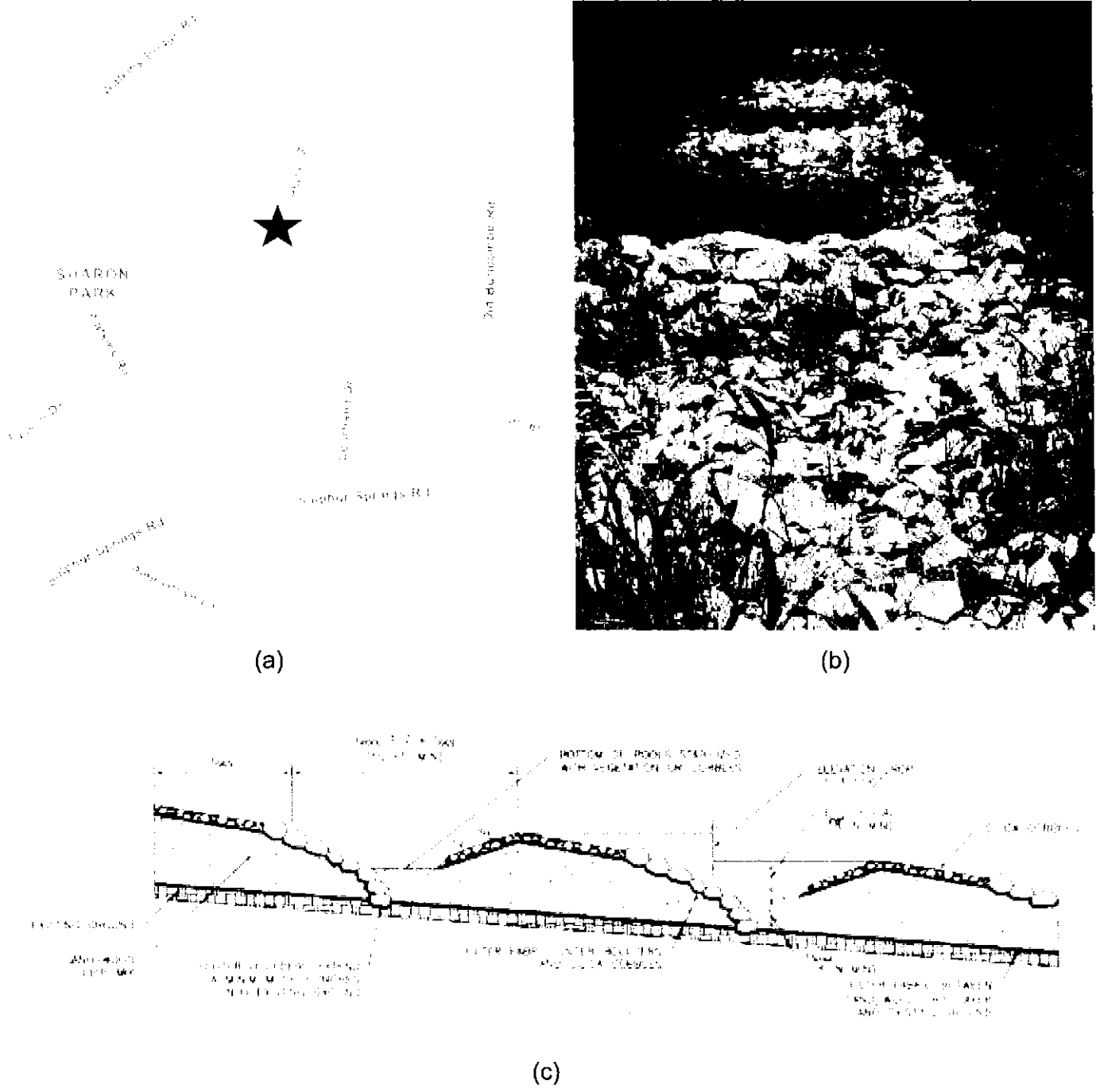


Figure C.2 - (a) Plano Drive RSC location. (b) Picture. (c) Design.

*Plano Drive RSC is a similar project that was completed by the northern part of the County in early 2021. This project was a single Regenerative Stormwater Conveyance (RSC), which is the same BMP proposed for Cedar Falls Park.*

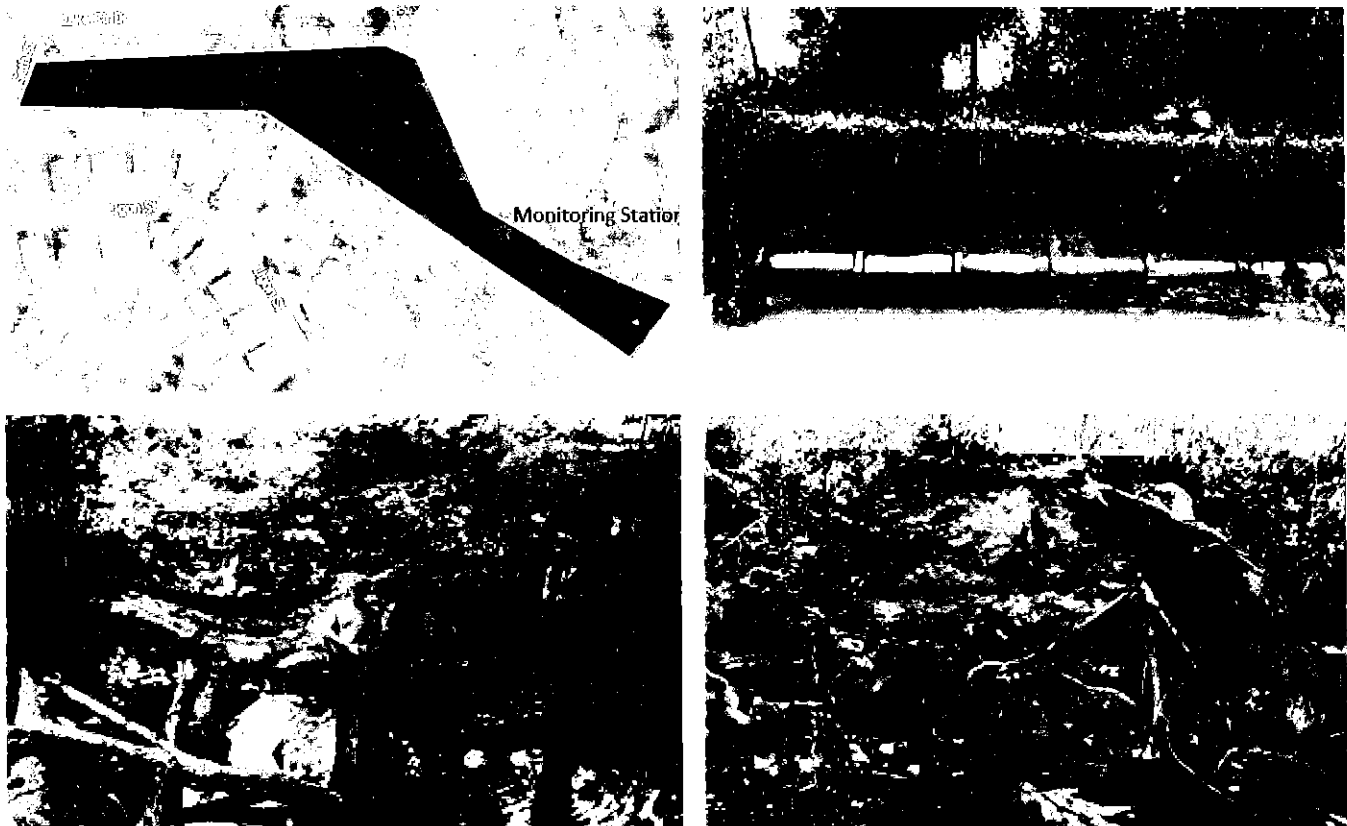


Figure C.3 - Brushy Creek Improvement location and pre-condition photos.

*Brushy Creek was a Stream Enhancement Project completed in late 2020. This project stabilized a failing stream, protected 2 sewer lines, and both visually and ecologically enhanced the stream. By enhancing the conveyance structure (the stream), the County used this 1000-ft corridor to treat stormwater and mitigate it's erosive forces on the system.*



Figure C.4 -More Brushy Creek pre- and post-condition comparisons

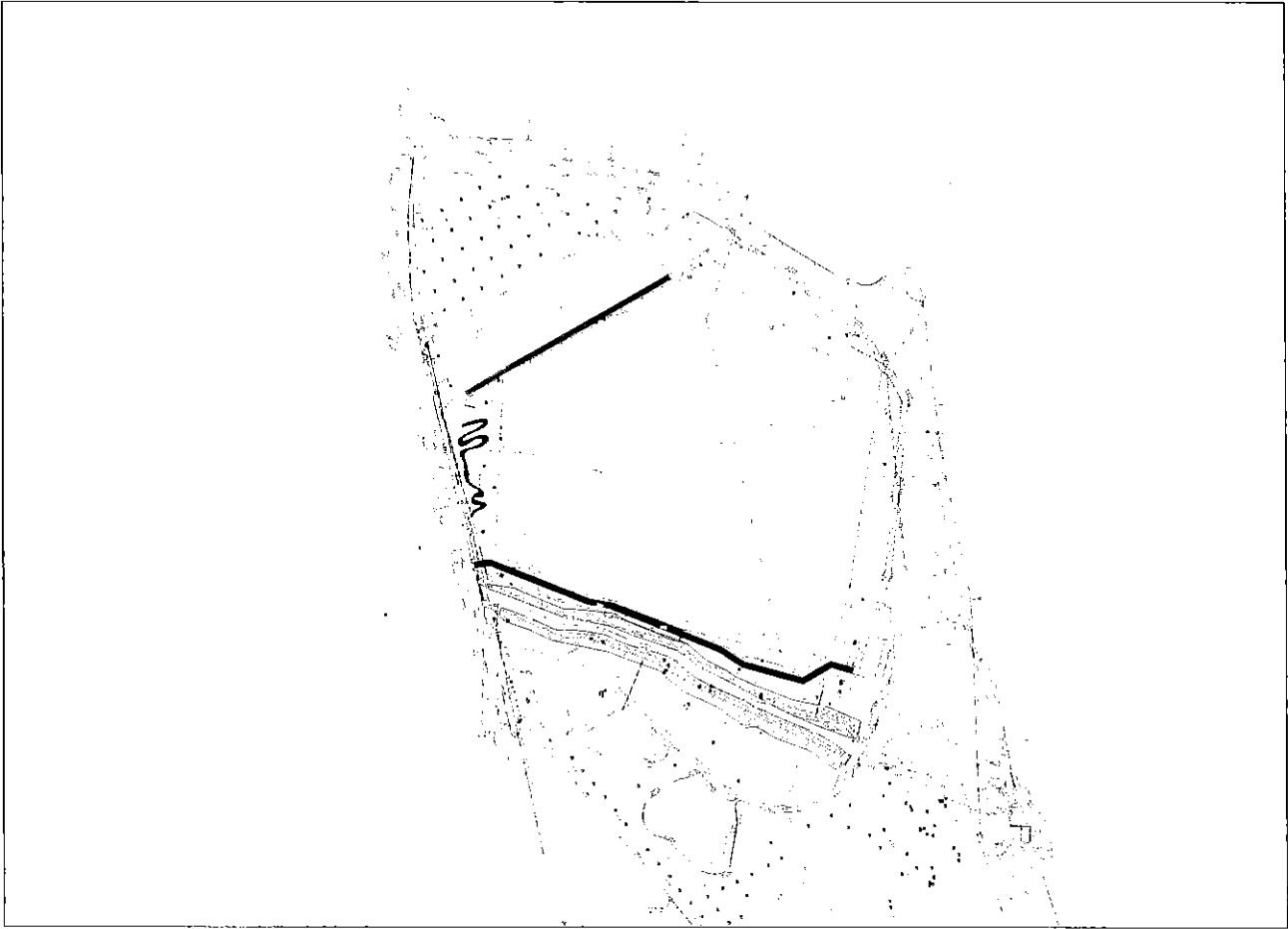


Figure C.5 - Shoeless Joe Jackson Park Project plans  
(upcoming project)

*The Shoeless Joe Jackson Project is an upcoming project that is currently out to bid. This project utilizes the Parks unique position, an 8-acre park with a much larger watershed draining to it, to treat nearly 96% of the water flowing to it in some capacity. This project will use a mix of BMPs that not only aim to treat stormwater, but reduce the volume of stormwater by infiltrating it into the groundwater table.*

**APPENDIX D:  
PROGRAM DOCUMENTATION**

[This page is a placeholder for a Letter of Commitment for funding.]