

Subapplicant information

Name of federal agency

FEMA

Type of submission

Application

TOWN OF SILER CITY

311 N 2ND AVE

SILER CITY, NC 27344 United States

State	DUNS #	EIN #
NC	099229189	566001334

Subapplicant type

Local Government

Is the subapplicant subject to review by Executive Order 12372 Process?

No - Not selected

Is the subapplicant delinquent on any federal debt?

No

Contact information

Subrecipient Authorized Representative (SAR)

Nancy Hannah	Primary phone	Mailing address
nhannah@silercity.org	9197424731 Other	

Point(s) of contact

David Honeycutt	Primary phone	Additional phones	Mailing address
Project Engineer david.honeycutt@mcgillassociates.c	9102953159 Work	9106902583 Mobile	5 Regional Circle, Suite A Pinehurst NC 28374
	Fax		

Community

Please provide the following information. If the Congressional district number for your community does not display correctly, please contact your State NFIP coordinator.

Add Communities

Please find the community(ies) that will benefit from this mitigation activity by clicking on the Find communities button. If needed, modify the Congressional District number for each community by entering the updated number under the U.S. Congressional District column for that community.

When finished, click the Continue button. NOTE: You should also notify your State NFIP coordinator so that the updated U.S. Congressional District number can be updated in the Community Information System (CIS) database.

Community name	County code	CID number	CRS community	CRS rating	U.S. Congressional District
SILER CITY,TOWN OF	037	370058	N		2,4

Please provide any additional comments below (optional).

Sourcing funding for infrastructure projects has been extremely difficult and challenging for the Town of Siler City. Obtaining funds via taxation of our residents is not an available option due to the demographics of our citizens. The population of the Town of Siler City is made up of a high percentage of the economically-disadvantaged and historically-underserved. According to 2020 Census statistics, 20% of the Town's residents are classified as Black or African American, and 51% are Hispanic or Latino, meaning nearly three-quarters of Siler City's population of 7,702 people fall into the category of historically-underserved. Additionally, 22% of all Siler City residents are living below the Poverty line, and the median household income is only \$38,222 - far lower than the national average of \$65,712 and North Carolina's average of \$57,341. For these reasons, the Town does not want to shift the burden to our citizens via taxation. (Source for all above data: <https://data.census.gov/cedsci/profile?g=1600000US3761860>) A severe affordable housing shortage in the area has also driven the cost of living up, but we are unable to accommodate builders' requests to create affordable housing units due to our inadequate drinking water and wastewater facilities. (Please see the attached newspaper article "Testing the Waters" for more information about Siler City's various water and wastewater projects.) A major roadblock to the Town in qualifying for much of the state funding available for infrastructure projects is due to North Carolina's county tier designation. The state's 100 counties are categorized as Tier One, Two or Three. 40 counties are denoted as Tier One - most economically-distressed; 40 are Tier Two - distressed; and 20 are Tier Three - least distressed. Due to Chatham county's proximity to wealthy Orange and Wake Counties, it has been categorized as a Tier Three, or "least distressed" county, despite nearly the entirety of western Chatham County lagging far behind the rest of the area economically. Because much of North Carolina's infrastructure monies are designated solely for Tier One and Two counties, despite our having a populace largely comprised of the disadvantaged and being a rural community which was disproportionately affected by the Recession of 2008, our location within a Tier 3 county means we are unable to qualify for the most beneficial State grant funding programs. (Sources: Please see the attached articles "Hidden Distress" and "An Unfair Ranking?" for more information about the Town's Tier 3 designation.) For those we are able to apply for, our county tier designation reduces how we score on State applications, meaning we lose out on funding opportunities that would allow us to improve or expand our water and wastewater facilities and capacity, and results in requiring that we assume long term debt via loan financing as opposed to obtaining grant funds. We truly have left no stone unturned in our attempts to secure both State and Federal funding. In early 2021, the Town submitted five projects for consideration to our local Congressional Representative after funding opportunities were solicited publicly, but received nothing. The funds were awarded to larger, wealthy local communities. In summary, the Town's aging water infrastructure severely inhibits our ability to both serve our residents and to attract new industry and to fuel progress, and we have been largely unsuccessful in securing State grant funds due to our county Tier 3 designation.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Testing the waters Siler City plans water and sewer expansion projects The Chatham News + Record.pdf	11/22/2021	nhannah@silercity.org	Community Attachments	Newspaper article outlining Siler City's numerous water projects.	
Chatham News & Record Siler City Article.pdf	11/09/2021	nhannah@silercity.org	Community Attachments	Newspaper article outlining Siler City's disadvantages in obtaining State funding due to County Tier designation.	
Hidden Distress - Tier System.pdf	11/09/2021	nhannah@silercity.org	Community Attachments	Triangle J Council of Government Analysis of State's County Tier System and its adverse affects on Siler City.	

Mitigation plan

Please provide your plan information below.

Is the entity that will benefit from the proposed activity covered by the current FEMA approved multi-hazard mitigation plan in compliance with 44 CFR Part 201? **Yes**

Please provide plan detail

Plan name	Plan type	Plan approval date
Town of Siler City HMP	Local Multijurisdictional Multi-Hazard Mitigation Plan	01/19/2021
Proposed activity description		

Please provide any additional comments below (optional).

The Town of Siler City performed a comprehensive review and evaluation of each section of the previously-approved Hazard Mitigation Plan and updated the plan as required under regulations at 44 CFR Part 201, and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management. Section 5.11.7 discusses impacts of floodwaters to sewer systems. The proposed project will help reduce the impacts - such as infiltration and inflow during flood events, and physical damage to the infrastructure. As noted in the Hazard Mitigation Plan, these issues can and have resulted in sewer overflows, causing potential public health issues due to exposure to raw sewage. Hazard Mitigation plan is attached as 'Cape Fear Regional HMP Final' and Town's adoption is documented as attachment 'Town of Siler City HMP Adoption'

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Town of Siler City HMP Adoption.pdf	11/17/2021	nhannah@silercity.org	Mitigation Plan Attachments	Resolution adopting the Cape Fear Regional Hazard Mitigation Plan	
Cape Fear Regional HMP Final.pdf	11/17/2021	nhannah@silercity.org	Mitigation Plan Attachments	Hazard Mitigation Plan Document	

Scope of work

The project Scope of Work (SOW) identifies the eligible activity, describes what will be accomplished and explains how the mitigation activity will be implemented. The mitigation activity must be described in sufficient detail to verify the cost estimate. All activities for which funding is requested must be identified in the SOW prior to the close of the application period. FEMA has different requirements for project, planning and management cost SOWs.

Subapplication title (include type of activity and location)

Blood Run Pump Station Relocation and Sewer Line Replacement

Activities

Primary activity type

Utility and infrastructure protection

Primary sub-activity type

Wastewater and/or sanitary sewer system

Secondary activity type (Optional)

Stabilization and restoration

Secondary sub-activity type

Floodplain and stream restoration

Tertiary activity type (Optional)

Geographic areas description

The site of the Blood Run Pump Station is 300 Elder Road, Siler City, NC 27344, at 35.721908 latitude and -79.498242 longitude. The project will construct linear outfall replacement generally parallel to Blood Run Stream between the coordinates 35.729712, -79.496110 (north end) to the Blood Run Pump Station. Additionally, the project will construct linear force main replacement that runs generally parallel to Elder Road, Airport Road, W 3rd Street and W 2nd Street between coordinates 35.721908, -79.498242 (west end) and 35.722753, -79.466377 (east end). The project will construct linear interceptor replacement generally parallel to Loves Creek between the coordinates 35.726048, -79.467600 (northwest end) and 35.724871, -79.445883 (southeast end). Streambank enhancement is proposed to be a part of the project along the 30" interceptor. Refer to attachment "Siler City-SOW-Project Maps"

Community lifelines

Primary community lifeline

Food, water, shelter

Primary sub-community lifeline

Water

Secondary community lifeline (optional)

Safety and security

Secondary sub-community lifeline

Community safety

Tertiary community lifeline (optional)

Hazardous material

Tertiary sub-community lifeline

HAZMAT, pollutants, contaminants

Hazard sources

Primary hazard source

Flooding

Secondary hazard source (optional)

Infrastructure failure

Tertiary hazard source (optional)

Biological incident

Is this a phased project?

No

Are you doing construction in this project?

Yes

Population affected

76.2

Detail/description of stated percentage

The sewer mains and pump station proposed to be replaced provide service to approximately 76.2% of the Town's population, based on sewer mapping and previous evaluations. The Town of Siler City has an estimated population of 7,702 (based on 2020 US Census data). The sewer facilities proposed to be replaced with this project serve approximately 5,488 people. Please reference the attachment "Siler City SOW - Population Calculations" for more information.

Provide a clear and detailed description of your proposed activity

This project consists of five main elements: 1. Relocation of the Blood Run Pump Station outside of the floodway of Blood Run Stream 2. Replacement of approximately 3,339 LF of 12" Truss pipe outfall with 24" PVC 3. Replacement of approximately 5,763 LF of 15" and 18" VCP that make up one portion of the main interceptor with 30" PVC 4. Replacement of approximately 4,064 LF of 24" VCP that makes up the other portion of the main interceptor with 36" PVC 5. Replacement of approximately 9,949 LF of 8" DIP force main with PVC and approximately 2,977 LF of streambank stabilization around the 15" and 18" interceptor The streambank enhancement work includes an area of Loves Creek that the Town has completed previous floodplain rehabilitation efforts on, and the work proposed in this project will function in tandem with the previous work to create an extremely flood resilient area. The pump station is currently located in the flood plain of Blood Run Stream and has been damaged in the past due to flooding in the area. The project includes the demolition and reconstruction of the pump station outside the 100-year flood plain at a higher elevation to mitigate future flood damage. Large portions of the outfall and main interceptor are located in the flood plains of Blood Run Stream and Loves Creek, respectively. These sewer mains would be replaced with larger pipes based on the Town's Capital Improvements Plan and anticipated growth in the community. Sewers will be located outside of the flood plain where feasible, and where infeasible, flood-resistant construction will be utilized - such as watertight manhole covers and pressure-rated sewer main materials. The force main replacement is necessary as part of the project due to the Town's expected future growth. The project will include streambank enhancement along Loves Creek. The Town also maintains parks and greenways along the proposed routes that may require repairs during construction of the sewer improvements. Please reference attachment "Siler City SOW - Project Maps" for maps of the proposed project.

How will the mitigation activity be implemented?

The project will be implemented by the Town of Siler City with a traditional design, bid, build approach. The Town will complete final planning and coordination with potentially implemented parties and work with the design engineer to complete surveying, incorporate design engineering, permitting, construction, acquisition of equipment and materials, and stream erosion control implementation. Construction constraints include easement procurement, existing utility conflicts, scheduling, etc. and will all be addressed by the Town

and design engineer. Permits will be obtained from all appropriate local, state, and federal agencies for construction activity, stormwater discharges, floodplain management land disturbance, drainage review and approval, and environmental quality reviews. Permits such as encroachment agreements, NCDEQ sewer permit, Authorization to Construct, etc. are included in the project. Timing and initiation of these projects will be closely coordinated and managed. The Town of Siler City will implement the proposed project by hiring a qualified design engineer and construction contractor through a competitive procurement process. The Town's procurement will conform with the FEMA procurement guidelines and 2 CFR 200. The Town's procurement will also satisfy all guidelines set forth by the partners referenced in this application. The Town has experience with all parties involved in the project and with the permits required for the project. Resumes for Town staff have been included for reference in the attachment "Siler City SOW - Resumes". The Town has numerous partners that will be involved in implementation of the project as well. The Loves Creek Watershed Stewards is a valued partner with experience in assisting with stream restoration work in the project area.

Describe how the project is technically feasible and will be effective in reducing the risk by reducing or eliminating damage to property and/or loss of life in the project area. Please include engineering design parameters and references to the following: preliminary schematic or engineering drawings/design; applicable building codes; engineering practices and/or best practices; level of protection (e.g., life safety, 100-yr flood protection with freeboard, 100-yr wind design, etc.):

The proposed mitigation activities will reduce risk by not only mitigating direct damages and loss of function to the pump station and collection lines, but also by reducing the probability of damages and loss of function due to potential future erosion. Additionally, the project will have a positive impact on water quality. Preliminary routing for the proposed improvements has been completed to confirm the feasibility of the alternate routes and relocation of the pump station. The relocation of the pump station will significantly reduce the potential occurrence of sewer overflows, as have happened in the past as a result of flooded facilities. Furthermore, by providing erosion control measures to the streambanks, the Town is ensuring the Blood Run Pump Station is hardened against future events. The Blood Run Pump Station and portions of the outfall and interceptor are located in the 100-year floodplains of Blood Run Creek and Loves Creek, with some portions in the floodway. The intent of the mitigation action for the Blood Run Pump Station, outfall, force main, and interceptor is to relocate all facilities out of the floodway and floodplains where feasible. Where infeasible, all flood-proofing measures will be taken - such as water tight manhole lids - to ensure the safety of the Town, equipment, and environment. Streambank enhancement is included in this project along the 30" interceptor, and this will further ensure the new sewer interceptor will not be susceptible to large weather events and flooding. The project's erosion control measures will be designed in compliance with all relevant engineering practices and federal, state, and local statutes, regulations, and laws.

Who will manage and complete the mitigation activity?

The Town of Siler City Public Works and Utilities Department will manage the mitigation activity. The department has prior experience with projects of similar scope and scale, including several lift stations and rehabilitation of other sewer collection system lines. Town staff have also managed several projects funded by the NC State Revolving Fund, Golden LEAF, USDA, CDBG-I, etc., and are familiar with grant management requirements and are responsible stewards of grant funds. The Town has a Grant Administrator on staff who assists the Town with funded projects. Resumes for Town staff have been included for reference in the attachment "Siler City SOW - Resumes".

Will the project address the hazards identified and what risks will remain from all hazards after project implementation (residual risk)?

After mitigation, the Blood Run Pump Station will be protected via relocation out of the 100-year flood plain and the sewer interceptors will be relocated outside the impact area or designed to resist impacts from flood events. To ensure a conservative analysis, it has been assumed that the streambank enhancement work will last at least until the end of its identified project useful life of 50 years. This would mean that at the end of the useful service life of the erosion stabilization measures, erosion will continue along Blood Run stream and Loves Creek. After mitigation, the Blood Run Pump Station will be

When will the mitigation activity take place?

located approximately 4.2 feet above the 100-year floodplain. The outfall, force main, and interceptor replacement will be relocated outside of the flood way and 100-year/500-year floodplains where feasible, and where infeasible, flood safety measures such as watertight manhole lids will be installed. The existing clay pipelines are not pressure rated and allow significant infiltration and inflow of floodwaters into the sewer mains. The proposed lines will be gasketed pipe, which will reduce the amount of floodwaters able to enter the pipes and the associated impacts such as sanitary sewer overflows and reduced treatment due to bypasses at the Wastewater Treatment Plant.

The project will commence upon the receipt of a sub-recipient agreement from North Carolina Department of Public Safety (NCDPS). The Town of Siler City Department of Public Utilities anticipates that the remaining engineering and design work, including obtaining permits and the bidding process, will take approximately 17 months. Construction and project closeout will take approximately 21 months - assuming a conservative lead time on purchasing the required materials and equipment. These expected timelines also include sufficient time for procurement and coordination with NCDPS to execute the sub-recipient agreement. Specific milestones are provided in the Schedule section.

Explain why this project is the best alternative. What alternatives were considered to address the risk and why was the proposed activity considered the best alternative?

Several alternatives were considered for this project, including the "No Action" alternative and several different alignment alternatives. The "No Action" alternative would provide no protection to the pump station or to the collection lines from either flooding or erosion. As noted above, it is clear past events have directly impacted these assets and will continue to do so if no mitigation action is taken. The alignment alternatives considered explore different areas that will be in and out of the floodway/floodplain. Using engineering judgement, the preferred alternative proposed is the alternative that has the least amount of outfall and interceptor in the floodway/floodplain. The pump station, force main, outfall and interceptor are all critical pieces of infrastructure in the process to serve the Town safely and efficiently. If these things were to be taken offline or fail, the impacts to public and environmental health would be severe. The proposed alternative is the best alternative for all components of this critical infrastructure.

Please identify the entity that will perform any long-term maintenance and provide a maintenance, schedule and cost information. The subapplicant or owner of the area to be mitigated is responsible for maintenance (including costs of long-term care) after the project is completed?

As project sub-applicant, the Town of Siler City takes full responsibility for ensuring that the operation and maintenance needs of the project are met. The sub-applicant intends to engage with the project collaborative partners to further discuss allocation of operation and maintenance responsibilities. An Operations and Maintenance Plan will be implemented by the sub-applicant following completion of construction. The O&M Plan will be developed by the engineering consultant close to substantial completion of construction to take into account the final as-built conditions of the project. The O&M Plan will identify and describe the activities required for thorough inspection of the pump station, outfall, interceptor, and all streambank, erosion, and site control. It will also specify activities for typical maintenance of those facilities - such as vegetation repair, control and repair of animal burrows, and corrosion prevention exercising of gates. The O&M Plan will provide recommended schedules for inspection and maintenance activities. There are approximately 14,144 LF of gravity sewer lines, and 10% of this will need to be cleaned and inspected every year. It is assumed that it will cost \$3 per foot of sewer line to be cleaned and inspected, so the annual O&M cost will be \$4,243.20. The project will replace and enhance existing infrastructure such that the cost for operation and maintenance is anticipated to be reduced. The cost to maintain the new pumping equipment and sewer mains will be less than the current cost to maintain this infrastructure that has exceeded it's useful life.

Additional comments (optional)

The Town will engage in Outreach through a number of activities including, news media, mailings, public hearings and meetings, and through our partners such as the Loves Creek Watershed Stewards and Chatham County. The Town has published information regarding this project on their website. See attached 'Siler City Website Release'. During previous similar projects the Town has utilized mailings to residents in the project area to keep them informed of what is happening. The Town Board meets monthly and the meetings are currently available through the Town's website to participate during COVID to improve safety. The media also frequently attends meetings and publishes articles regarding the actions taken. If the project is able to move forward the Town will utilize a similar approach to engage the residents and project partners to help ensure the success of the work.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Siler City SOW - Resumes.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Scope of Work Attachments	Resume information for Siler City staff.	
Siler City Website Release.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Scope of Work Attachments	Press release on Siler City Website	
Siler City SOW - Population Calculations.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Scope of Work Attachments	Documentation of affected population	
Siler City SOW - Project Maps.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Scope of Work Attachments	Maps of the overall project and preliminary alignment of the sewer improvements.	

Schedule

Specify the work schedule for the mitigation activities.

Add tasks to the schedule

Please include all tasks necessary to implement this mitigation activity; include descriptions and estimated time frames.

Task Name Preliminary engineering report	Start Month 6	Task Duration (in Months) 2 months	Task Description The preliminary engineering report is estimated to be completed 2 months after funding approval.
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Task Name Environmental review	Start Month 8	Task Duration (in Months) 3 months	
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	Task Description Environmental review will be completed after the preliminary engineering report is complete.	
Task Name Final Design	Start Month 11	Task Duration (in Months) 6 months
	Task Description The design for the project will be completed after the environmental review is complete.	
Task Name Permitting	Start Month 5	Task Duration (in Months) 3 months
	Task Description Permitting for the project will be completed after the final design is complete.	
Task Name Bidding	Start Month 8	Task Duration (in Months) 3 months
	Task Description Bidding will be completed after permitting is complete.	
Task Name Construction	Start Month 11	Task Duration (in Months) 18 months
	Task Description Construction will be complete after bidding is complete.	
Task Name Project Closeout	Start Month 5	Task Duration (in Months) 3 months
	Task Description The project will close after after construction is complete.	

Estimate the total duration of your proposed activities (in months). **38**

Proposed project start and end dates

Start Date **2022-06-01**

End Date **2025-08-01**

Budget

Budget cost estimate should directly link to your scope of work and work schedule. You must add at least one item(s) greater than 0 for your cost estimate. As necessary, please adjust your federal/non-federal cost shares, and add the non-federal funding source(s) you are planning to use this project. Once you have completed this section, please click the Continue button at the bottom of this page to navigate to the next section.

Add budget cost types and item(s)

First, click the Add cost type button below to add cost type cost estimate and then click the Add item(s) button to add the item(s) for the cost estimate.

Grand total: \$7,144,857.00

Budget type: Construction

▶ Cost type: Cost estimate	\$7,144,857.00
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Program income (optional)

Cost share

Cost share or matching means the portion of project costs not paid by federal funds.

Proposed federal vs. non-federal funding shares

Hazard Mitigation Assistance (HMA) funds may be used to pay up to 75% federal share of the eligible activity costs. For Building Resilient Infrastructure and communities (BRIC), small impoverished communities may be eligible for up to 90% federal share. For Flood Mitigation Assistance (FMA), and severe repetitive loss (SRL) properties may be eligible for up to 100% federal share. Repetitive loss (RL) properties may be eligible for up to 90% federal share. Flood Mitigation Assistance (FMA) and severe repetitive loss (SRL) properties may be eligible for up to 100% federal share. Repetitive loss (RL) properties may be eligible for up to 90% federal share.

Is this a small impoverished community? ⓘ This determines your federal/non-federal share ratio. No	Proposed federal share	70.00	\$ 5001399.00
	Proposed non-federal share	30.00	2143458.00
	Based on total budget cost: \$7,144,857.00		

Non-federal funding sources here

That portion of the total costs of the program provided by the non-federal entity in the form of in-kind donations or cash match received from third parties or contributed by the agency. In-kind contributions must be provided and cash expended during the project period along with federal funds to satisfy the matching requirements.

Funding source	Funding amount	% Non-federal share by source
▶ Funding source: Town Funding	\$2,143,458.00	100.00%

Please provide any additional comments below (optional).

Please find the attached matching funds commitment letter from the Town of Siler City. See attached 'Siler City Matching Funds Letter'. The Town will also be working with the Loves Creek Watershed Stewards(LCWS) and the LCWS has committed to provide in-kind services in support of the project as well. See attached ' LCWS Letter of Support' LCWS is a valued partner with experience in assisting with stream restoration work in the project area. The LCWS includes a number of stakeholders interested in improving the water quality in Loves Creek. This includes Town of Siler City, Chatham County, NC Division of Water Resources, Cooperative Extension, North Carolina State University, Biocenosis LLC, and local residents, schools and businesses.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
LCWS Letter of Support.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Budget Attachments	Letter from Loves Creek Watershed Stewards	
Siler City Matching Funds Letter.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Budget Attachments	Siler City letter committing matching funds.	

Cost-effectiveness

How was cost-effectiveness determined for this project?

- BCA completed in FEMA's BCA toolkit
Subapplicant must attach supporting documentation.
- Pre-calculated benefits
- Substantial damage in special flood hazard area
- Other BCA methodology approved by FEMA in writing
- Not applicable
Please explain why this project is not applicable.

Please explain why this project is not applicable.

What are the total project benefits? (\$) **11295287**

What are the total project cost? (\$) **7203416**

What is the benefit-cost ratio (BCR) for the entire project? **1.56**

Was sea level rise incorporated into the flood elevations in the BCA? **No**

Were environmental benefits added to the project benefits? **Yes**

Were social benefits added to the project benefits? **No**

Does the mitigation measure incorporate nature-based solutions? **Yes**

Please provide any additional comments below (optional).

BCA Analysis utilized FEMA BCA Toolkit. Attachments below include output from the excel toolkit ('BCA Toolkit') and methodology (Attachment ' Siler City BCA-Methodology')

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
BCA Toolkit.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Cost Effectiveness Attachments	BCA Excel Output Calculation	
Siler City BCA - Methodology.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Cost Effectiveness Attachments	BCA methodology discussion	

Environmental/Historic Preservation (EHP) Review Information

Introduction

An environmental/historic preservation review is required for all activities for which FEMA funds are being requested. FEMA will complete this review with the assistance of both the state or tribal government and the local applicant. It is important that you provide accurate information. If you are having problems completing this section, please contact your application point of contact.

A. National Historic Preservation Act - Historic Buildings and Structures

1. Does your project affect or is it in close proximity to any buildings or structures 50 years or more in age? **Not known**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- The property address and original date of construction for each property affected (unless this information is already noted in the Properties section).
- A minimum of two color photographs showing at least three sides of each structure (Please label the photos accordingly).
- A diagram or USGS 1:24,000 scale quadrangle map displaying the relationship of the property (s) to the project area.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Information gathered about potential historic properties in the project area, including any evidence indicating the age of the building or structure and presence of buildings or structures that are listed or eligible for listing on the National Register of Historic Places or within or near a National Register listed or eligible historic district. Sources for this information may include the State Historic Preservation Officer, and/or the Tribal Historic Preservation Officer (SHPO/THPO), your local planning office, historic preservation organization, or historical society.
- Consideration of how the project design will minimize adverse effects on known or potential historic buildings or structures, and any alternatives considered or implemented to avoid or minimize effects on historic buildings or structures. Please address and note associated costs in your project budget.
- For acquisition/demolition projects affecting historic buildings or structures, any data regarding the consideration and feasibility of elevation, relocation, or flood proofing as alternatives to demolition.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

There are buildings over the age of 50 years within the project vicinity. All construction involved in the project will be a minimum of ten feet off the edge of any building, therefore, it is not anticipated that the project will affect any buildings.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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B. National Historic Preservation Act - Archeological Resources

Does your project involve disturbance of ground? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- A description of the ground disturbance by giving the dimensions (area, volume, depth, etc.) and location.
- The past use of the area to be disturbed, noting the extent of previously disturbed ground.
- A USGS 1:24,000 scale or other site map showing the location and extent of ground disturbance.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Any information about potential historic properties, including archeological sites, in the project area. Sources of this information may include SHPO/THPO, and/or the Tribe's cultural resources contact if no THPO is designated. Include, if possible, a map showing the relation of any identified historic properties to the project area.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Ground disturbance includes 14,144 LF gravity sewer at approximately 6 ft wide and average of 8 feet deep and 9950 Lf of force main trench approximately 5' wide and 5 deep'. Therefore, the estimated volume of ground disturbance is 34,358 CY. McGill Environmental Specialists performed a review of NC Historic Preservation Office (NCHPO) on-line records to assess the need for compliance with the National Historic Preservation Act of 1966. According to online records, no structures or areas of historic significance are located within the proposed project area. The project area comes within close proximity to the Siler city Commercial Historic District, but no impacts to the district are anticipated. Prior to construction, a formal consultation will be initiated with the NCHPO requesting comment to initiate National Historic Preservation Act – Section 6 consultation. Attached Information: NCHPOWeb – National Register and Historic Property Survey Map. 11/19/21.

Please provide an explanation and any information about this project that could assist FEMA in its review.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
NCHPO Map.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	involveDisturbanceOfGround.attachmentIds	History Preservation Map	
Topo Map-Ground Disturbance.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	involveDisturbanceOfGround.attachmentIds	Topographic Map of project	

C. Endangered Species Act and Fish and Wildlife Coordination Act

1. Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please provide the required documents either through attachment and/or comment box below.)

- Information you obtained to identify species in or near the project area. Provide the source and date of the information cited.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Any request for information and associated response from the USFWS, the National Marine Fisheries Service (NMFS) (for affected ocean-going fish), or your State Wildlife Agency, regarding potential listed species present and potential of the project to impact those species.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

McGill Environmental Specialists performed a review of on-line records to assess the need for T&E species site surveys in accordance with the Endangered Species Act of 1973. On-line records reviewed included: NC Natural Heritage Program Data Explorer (NCNHP), US Fish & Wildlife Service (USFWS) Information for Planning and Consultation System (IPAC), Chatham County Threatened & Endangered (T&E) species lists, USFWS Online Critical Habitat

Mapping Services. Attached Information: Description 'IPAC - USFWS Species List' 'NCNHP Report'

Please provide an explanation and any information about this project that could assist FEMA in its review.

2. Does your project remove or affect vegetation? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please provide the required documents either through attachment and/or comment box below.)

- Description of the amount (area) and type of vegetation to be removed or affected.
- A site map showing the project area and the extent of vegetation affected.
- Photographs or digital images that show both the vegetation affected and the vegetation in context of its surroundings.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Based on available data, the proposed project area crosses a number of different plant community types. Areas described as "urban forest or grassland" were considered urban landscaped areas, and/or pasture/hay fields. Impacts to these areas will not result in impacts to vegetation other than turf and feed grass. See attached description of Natural Area Types 'Vegetated Area Description'. See attached photographs of the project areas for 'Loves Creek Pictures' and 'Blood run Photos'

Please provide an explanation and any information about this project that could assist FEMA in its review.

3. Is your project in, near (within 200 feet), or likely to affect any type of waterway or body of water? **Yes**

If Yes, and project is not within an existing building, you must confirm that you have provided the following: (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- A USGS 1:24,000 scale quadrangle map showing the project activities in relation to all nearby water bodies (within 200 feet).
- Any information about the type of water body nearby including: its dimensions, the proximity of the project activity to the water body, and the expected and possible changes to the water body, if any. Identify all water bodies regardless whether you think there may be an effect.
- A photograph or digital image of the site showing both the body of water and the project area.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Evidence of any discussions with the US Fish and Wildlife Service (USFWS), and/or your State Wildlife Agency concerning any potential impacts if there is the potential for the project to affect any water body.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

According to National Wetlands Inventory and USGS mapping, the proposed project will cross and/or be constructed in close proximity (within 200 feet) to five streams; Blood Run Creek, two Unnamed Tributaries to Blood Run Creek, Unnamed Tributary to Loves Creek, and Loves Creek. All of the streams carry a NCDEQ designation of (C); Waters protected for uses such as secondary recreation, fishing, wildlife, fish consumption, aquatic life including propagation, survival and maintenance of biological integrity, and agriculture. Any impacts associated with the stream crossings will be minimal and temporary in nature. Project plans will call for the restoration of disturbed stream bed and bank to original conditions. Erosion and Sediment control measures will be designed and implemented during construction to control stormwater and prevent sediment release to receiving streams. USGS map is attached 'Topo Map-Water Bodies'

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
IPAC - USFWS Species List.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	endangeredSpecies.attachmentIds	Fish and Wildlife Service Species List	
Topo Map-Water Bodies.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	endangeredSpecies.attachmentIds	Water bodies map	
NCNHP Report.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	endangeredSpecies.attachmentIds	Natural Heritage Program Project Area Report	
Vegetated Area Description.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	endangeredSpecies.attachmentIds	Environmental Description of Vegetation	
Blood run Photos.pdf	11/23/2021	david.honeycutt@mcgillassociates.com	endangeredSpecies.attachmentIds	Photos of Site area in Blood Run	
Loves Creek Pictures.pdf	11/23/2021	david.honeycutt@mcgillassociates.com	endangeredSpecies.attachmentIds	Photos of Site area at Loves Creek	

D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)

1. Will the project involve dredging or disposal of dredged material, excavation, adding fill material or result in any modification to water bodies or wetlands designated as 'waters of the U.S.' as identified by the US Army Corps of Engineers or on the National Wetland Inventory? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- Documentation of the project location on a USGS 1:24,000 scale topographic map or image.
- A copy of a National Wetlands Inventory map or other available wetlands mapping information.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Request for information and response letter from the US Army Corps of Engineers and/or state resource agencies regarding the potential for wetlands, and applicability of permitting requirements.
- Evidence of alternatives considered to eliminate or minimize impacts to wetland.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
NWI Mapper.pdf	11/18/2021	david.honeycutt@mcgillassociates.com	waterBodyOrWetlandModification.attachmentIds	Map of Wetlands in project area	

Filename	Date uploaded	Uploaded by	Label	Description	Action
Topo Map-Project Area.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	waterBodyOrWetlandModification.attachmentIds	Project Area topographic map	

E. Executive Order 11988 (Floodplain Management)

1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study, or some other source indicate that the project is located in or will affect a 100 year floodplain, a 500 year floodplain if a critical facility, an identified regulatory floodway, or an area prone to flooding? **Yes**

Please explain in the text box below and/or provide any documentation to identify the means or the alternatives considered to eliminate or minimize impacts to floodplains (See the 8 step process found in 44 CFR Part 9.6.) to help FEMA evaluate the impact of the project:

The proposed project is relocating the Blood Run pump station, outfall, and interceptors out of the flood way and flood plain where feasible. The project includes erosion and sedimentation control measures that meet or are above the required measures outlined by the state. The streambank area along the 30" interceptor will be rehabilitated where the sewer line crosses Loves Creek. This will ensure that the impacts of the project will be minimized and the future status of the stream will improve overall.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

2. Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation? **No**

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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F. Coastal Zone Management Act

1. Is the project located in the state's designated coastal zone? **No**

G. Farmland Protection Policy Act

1. Will the project convert more than 5 acres of prime or unique farmland outside city limits to a non-agricultural use? **No**

H. Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (Hazardous and Toxic Materials)

1. Is there a reason to suspect there are contaminants from a current or past use on the property associated with the proposed project? **Yes**

If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project: (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- Comments and any relevant documentation.
- Results of any consultations with state or local agency to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

McGill Environmental Specialists performed a review of available NC Division of Waste Management (NCDWM) records and on-line mapping services to determine the likelihood of past property uses that may have resulted in soil and/or groundwater contamination. According to the NCDWM mapper, the proposed project area comes within close proximity to two underground storage tank (UST) incidents along W 2nd Street (UST Incident #9395) and Fayetteville Avenue (UST Incident #15550). The W 2nd Street incident did not contain any available records, and the Fayetteville Avenue incident has received a 'No Further Action' designation from the State. It is the opinion of McGill that the proposed project area is not likely to contain contaminants from a current or past use. According to available NCDWM records, there are no known studies, investigations, or enforcement actions related to the proposed project area.

2. Are there any studies, investigations, or enforcement actions related to the property associated with the proposed project?

Not known

Please provide an explanation and any information about this project that could assist FEMA in its review.

There are no known studies, investigations or enforcement actions related to the properties associated with the proposed project. Utility will cross properties noted with previous contamination but is not anticipated to require mitigation in these areas.

3. Does any project construction or operation activities involve the use of hazardous or toxic materials?

No

4. Do you know if any of the current or past land-uses of the property affected by the proposed project or of the adjacent properties are associated with hazardous or toxic materials?

Yes

If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project: (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- Comments and any relevant documentation.
- Results of any consultations with state or local agency to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

McGill Environmental Specialists performed a review of available NC Division of Waste Management (NCDWM) records and on-line mapping services to determine the likelihood of past property uses that may have resulted in soil and/or groundwater contamination. According to the NCDWM mapper the proposed project area comes within close proximity to two underground storage tank (UST) incidents along W 2nd Street (UST Incident #9395) and Fayetteville Avenue (UST Incident #15550). The W 2nd Street incident did not contain any available records, and the Fayetteville Avenue incident has received a 'No Further Action' designation from the State. It is the opinion of McGill that the proposed project area is not likely to contain contaminants from a current or past use. According to available NCDWM records, there are no known studies, investigations, or enforcement actions related to the proposed project area.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
NCDWM Map.pdf	11/22/2021	david.honeycutt@mcgillassociates.com	resourceConservationRecovery.attachmentIds	Division of Waste Management Map of underground storage tanks	

I. Executive Order 12898, Environmental Justice for Low Income and Minority Populations

1. Are there low income or minority populations in the project's area of effect **Yes** or adjacent to the project area?

If Yes, you must confirm that you have provided the following either in the text box below or by attachment: (If you have not provided these documents in any other section of the application, please attach the required documents or provide the description below.)

Description of any disproportionate and adverse effects to these populations.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Description of the population affected and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address the adverse impacts in your proposal narrative and budget.

Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Using the EPA Environmental Justice Screening and Mapping Tool, approximately 59% of the Town of Siler City's population in a 1-mile buffer of the project area is considered at or below the poverty line and approximately 69% of this population is a minority. No adverse impacts are anticipated on these populations by the implementation of this project. Conversely, this project will benefit these populations as it will serve these portions of low-income and minority populations more safely and will improve their quality of life.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
ACS Report with 1 mile buffer.pdf	11/18/2021	david.honeycutt@mcgillassociates.com	lowIncomeMinority.attachmentIds	ACS report for project area	
EJSCREEN Report.pdf	11/18/2021	david.honeycutt@mcgillassociates.com	lowIncomeMinority.attachmentIds	Environmental Justice Report	

J. Other Environmental/Historic Preservation Laws or Issues

1. Are there other environmental/historic preservation requirements associated with this project that you are aware of? **No**

2. Are there controversial issues associated with this project? **No**

3. Have you conducted any public meeting or solicited public input or comments on your specific proposed mitigation project?

Yes

If Yes, please indicate in the text box below a description of the requirements, issues or public involvement effort.

The Town conducted a May 18, 2020 public hearing during which the project was outlined to the Board and public attendees, and a Resolution to apply for funding was presented to the Board, which they approved. (See attached.) The Town applied for the Federal Clean Water State Revolving Fund but the project was not funded. The Town conducted a public meeting in which they reviewed a Capital Improvements Plan that included this project as a critical need and this document was accepted and adopted by the board of directors.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
CWSRF_SPG_Resolution_signed_docx.pdf	11/09/2021	nhannah@silercity.org	otherEHPLawsIssues.attachmentIds	Resolution from previous funding application	

K. Summary and Cost of Potential Impacts

Having answered the questions in parts A. through J., have you identified any aspects of your proposed project that have the potential to impact environmental resources or historic properties?

Yes

If Yes, you must confirm that you have provided the following: (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- Evaluated these potential effects and provided the materials required in Parts A through J that identify the nature and extent of potential impacts to environmental resources and/or historic properties.
- Consulted with appropriate parties to identify any measures needed to avoid or minimize these impacts.
- Considered alternatives that could minimize both the impacts and the cost of the project.
- Made certain that the costs of any measures to treat adverse effects are realistically reflected in the project budget estimate.

Please enter your comments below. (optional) : (Please indicate why in the text box below and any information about this project that could assist FEMA in its review).

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action

Evaluation

Is the applicant participating in the [Community Rating System \(CRS\)](#)? **No**

Is the applicant a [Cooperating Technical Partner \(CTP\)](#)? **No**

Was this created from a previous FEMA HMA Advance assistance / Project scoping award? **No**

Has the applicant adopted building codes consistent with the [international codes](#)? **Yes**

Year of building code

2018

Please provide the building code.

<https://codes.iccsafe.org/content/NCBC2018>

Have the applicant's building codes been assessed on the [Building Code Effectiveness Grading Schedule \(BCEGS\)](#)?

Yes

Select rating.

4

Describe involvement of partners to enhance the mitigation activity outcome.

The Town of Siler City Department of Public Utilities will work closely with several partners during the course of the project such as NC Department of Public Safety, Triangle J Council of Governments, Chatham County Economic Development Commission, Chatham County, University of NC School of Government, NC Department of Environmental Quality, US Army Corps of Engineers, Loves Watershed Stewards, and the NC Department of Transportation to inform, coordinate, plan and execute work in areas that construction will occur and adjacent/affected properties. The Town has identified several critical lifeline facilities such as schools and doctors offices that it will continue to engage and collaborate with during the implementation of the proposed mitigation project. Please refer to the attachment that further details each partner and their role in the project.

Discuss how anticipated future conditions are addressed by this project.

As detailed in the document "FEMA Resources for Climate Resilience", the project will address future conditions due to precipitation intensity increase from climate change and flood prone areas from development around Blood Run Stream and Loves Creek. The project uses nature based solutions through streambank enhancement and also relocation of assets outside of flood zones. The mitigation design elevation for this project takes into account future changes in precipitation intensity as a result of climate change. It is expected that rainfall intensity will increase over the useful life of the project and thereby increase flood elevations. Mitigation measures to protect the sewer lines and pump station from flood events will include measures to a minimum of 2 feet above current 100-year flood elevations at the pump station and sewer lines out of the flood way and in most areas above the 100-year and 500-year flood elevations. While the core of Siler City is developed, there remains thousands of undeveloped parcels west around the Blood Run outfall and the Chatham-Siler Advanced Manufacturing (CAM) Site that will be tributary to the pump station is still to be developed. As a result of development, there will be many more impervious surfaces that will create areas around Blood Run Stream and Loves Creek more prone to flooding. By replacing, relocating and upsizing the existing sewer lines and pump station, these assets to the Town will be protected and able to serve the sewer customers safely and effectively. The streambank enhancement will ensure the area and assets around Loves Creek will be resilient to flooding due to climate change and development of impervious surfaces. By protecting these areas, environmental health, public safety and expected useful life of new assets will improve and accommodate future growth.

Additional comments (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
21219 Siler City NC.pdf	11/09/2021	nhannah@silercity.org	Evaluation Attachments	BCEGS Documentation	
Chatham County Letter of Support.pdf	01/04/2022	david.honeycutt@mcgillassociates.com	Evaluation Attachments	Chatham County support letter	

Filename	Date uploaded	Uploaded by	Label	Description	Action
LCWS Letter of Support.pdf	01/04/2022	david.honeycutt@mcgillassociates.com	Evaluation Attachments	<i>No description given.</i>	
Partner Summary.pdf	01/06/2022	david.honeycutt@mcgillassociates.com	Evaluation Attachments	Detailed Description of the Partners and roles in the project.	

Comments & attachments

▶ Community	1 comment, 3 attachments
▶ Mitigation plan	1 comment, 2 attachments
▶ Scope of work	1 comment, 4 attachments
▶ Budget	1 comment, 2 attachments
▶ Cost-effectiveness	1 comment, 2 attachments
▶ Evaluation	0 comment, 4 attachments
▶ Environmental/Historic Preservation (EHP)	0 comment, 14 attachments
▶ Location	0 comment, 1 attachments

Introduction

Project location

Provide a detailed description of the proposed project's location.

The site of the Blood Run Pump Station is 300 Elder Road, Siler City, NC 27344 at 35.721908 latitude and -79.498242 longitude. The project will construct linear outfall replacement generally parallel to Blood Run Stream between the coordinates 35.729712, -79.496110 (north end) to the Blood Run Pump Station. The project will construct linear force main replacement that generally runs parallel to Elder Rd., Airport Rd., W 3rd St. and W 2nd St. between the coordinates 35.721908, -79.498242 (west end) and 35.722753, -79.466377 (east end). The project will construct linear interceptor replacement generally parallel to Loves Creek between the coordinates 35.726048, -79.467600 (northwest end) and 35.724871, -79.445883 (southeast end). Streambank rehabilitation is proposed to be a part of the project along the 30" interceptor. Please see the attached Location Map.

Latitude 35.721908
Longitude -079.498242

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Project benefiting area

Provide a detailed description of the proposed project's benefiting area.

The benefitting area of the Town is upstream of the existing 24" interceptor that serves 76.2% of their sewer customers. The area of the Town that is served by this sewer line is 500 acres and 5,488 people. The Town of Siler City has a written Asset and Inventory Assessment document that analyzed the flow through the most down stream point of the existing 24" interceptor. It was found in this study that 76.2% of the Town's population is served through this sewer line from the most upstream point that is the Blood Run outfall. The benefitting area will be 76.2% or 500 acres of the Town. According to 2020 Census statistics, 20% of the Town's residents are classified as Black or African American, and 51% are Hispanic or Latino, meaning nearly three-quarters of Siler City's population of 7,702 people fall into the category of historically-underserved. Additionally, 22% of all Siler City residents are living below the Poverty line, and the median household income is only \$38,222 - far lower than the national average of \$65,712 and North Carolina's average of \$57,341.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Project impact area

Provide a detailed description of the proposed project's impact area.

The construction area includes the Blood Run Pump station, the outfall to the pump station, the pump station's force main, the interceptor that receives the flow from the force main, and the interceptor past 2nd Avenue to the point that the Town's largest employer, Mountaire, discharges. The construction of the sewer lines will be completed within a 30' easement width. The pump station relocation will require a buffer of 15'. Easement acquisitions and a parcel purchase for the pump station are included as part of the project. For detailed locations please refer to the Project Location maps. The impacted area will be approximately 16.7 acres.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Project Location Map.pdf	11/19/2021	david.honeycutt@mcgillassociates.com	Location project impact area Attachments	Location Map of project	

Project site inventory

Does this project subapplication propose to mitigate a property/structure(s)? **Yes**
 (Examples: residential home, commercial building, bridge, fire station,

levee, pumping station, wastewater treatment plant, telephone pole, electric line, etc.)

Please describe how the property(ies) will be selected upon subgrant approval. (Example: Saferoom Lottery Project, Fix the Bricks Project)

Please [download the excel template](#), and then fill out the template with building or infrastructure data.

Enter the location of the property/structure.

List of location(s) (1 location)

Status	Location ID	Address	Inventory type	Structure type	Mitigation action
✓	24660	300 Elder Rd , Siler City, NC, Chatham, 27344	Infrastructure/Utility/other	Wastewater	Relocation, Floodproofing

Assurances and certifications

OMB number: 4040-0009, Expiration date: 02/28/2022 [View burden statement](#)

SF-424D: Assurances - Construction Programs

Content:

OMB Number: 4040-0009
Expiration Date: 02/28/2022

Certain of these assurances may not be applicable to your project or program. If you have any questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure nondiscrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C.

§§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a--1 et seq.).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
20. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.