

**Subapplicant information**

Name of federal agency

**FEMA**

Type of submission

**Application****TOWN OF FOREST CITY**128 N POWELL ST  
FOREST CITY, NC 28043 United States

State	DUNS #	EIN #
NC	074519893	566001227

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)**

Janet Mason	Primary phone	Mailing address
<a href="mailto:janetmason@townofforestcity.com">janetmason@townofforestcity.com</a>	8284473423 Mobile	

**Point(s) of contact**

Roxanne Stiles	Primary phone	Additional phones	Mailing address
Finance Director <a href="mailto:roxannestiles@townofforestcity.com">roxannestiles@townofforestcity.com</a>	8282485204 Other	8282485204 Work	PO BOX 728 FOREST CITY NC 28043
	<b>Fax</b>		
David Honeycutt	Primary phone	Additional phones	Mailing address
McGill Associates <a href="mailto:david.honeycutt@mcgillassociates.com">david.honeycutt@mcgillassociates.com</a>	8282520575 Work	8282520575 Work	55 Broad Street Asheville NC 28801
	<b>Fax</b>		

**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
BOSTIC, TOWN OF	161	370354	N		2,11
ELLENBORO, TOWN OF	161	370561	N		
FOREST CITY, TOWN OF	161	370218	N		1,11
RUTHERFORD COUNTY*	161	370217	N		1,2,11

Please provide any additional comments below (optional).

**Letters of support from each of these communities and county school system are included in the evaluation section as well as new articles showing the impact and frequency of flood events in the community.**

## Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">BCEGS rating for Forest City.pdf</a>	11/17/2022	roxannestiles@townofforestcity.com	Community Attachments	BCEGS rating for Forest City is currently 4/4.	
<a href="#">Social Vulnerability Index.pdf</a>	11/17/2022	roxannestiles@townofforestcity.com	Community Attachments	Social vulnerability index showing Rutherford County in the highest top 4th.	
<a href="#">Technical Scoring Support Documents.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Community Attachments	Technical scoring support documents.	
<a href="#">BRIC2022-Q6 Leveraging Partners.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Community Attachments	Leveraging partners identified along with documents showing support.	

## 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
South Mountains Regional Hazard Mitigation Plan	Local Multijurisdictional Multi-Hazard Mitigation Plan	09/12/2022

#### Proposed activity description

Resolution #719 to adopt the hazard mitigation plan for the South Mountains Region.

Please provide any additional comments below (optional).

**Town of Forest City personnel collaborated with partners in the development of the South Mountain Hazard Mitigation Plan. Forest City Board of Commissioners adopted the plan at the council meeting on September 12, 2022 in collaboration with Rutherford County and other regional local governments.**

**Attachments**

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">South Mountains Regional Hazard Mitigation Plan Resolution Signed.pdf</a>	11/17/2022	roxannestiles@townofforestcity.com	Mitigation Plan Attachments	Resolution #719 to adopt the hazard mitigation plan.	

**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)

**Sewer Force Main, Raw Water Intake, & Stream Bank Stabilization**

**Activities**

Primary activity type

**Mitigation reconstruction**

Secondary activity type (Optional)

**Stabilization and restoration**

Secondary sub-activity type

**Shoreline and/or bank stabilization**

Tertiary activity type (Optional)

**Flood control**

Tertiary sub-activity type

**Flood diversion and/or bank stabilization**

Geographic areas description

**There are three (3) geographic areas for the listed projects as follows: Second Broad River, Brackett Creek Lift Station, Raw Water Intake. Maps of these are included in the attachments.**

**Community lifelines**

Primary community lifeline

**Hazardous material**

Primary sub-community lifeline

**HAZMAT, pollutants, contaminants**

Secondary community lifeline (optional)

**Health and medical**

Secondary sub-community lifeline

**Public health**

Tertiary community lifeline (optional)

**Hazard sources**

Primary hazard source

**Flooding**

Secondary hazard source (optional)

Tertiary hazard source (optional)

Is this a phased project?

**No**

Are you doing construction in this project?

**Yes**

Percentage of population impacted

**50**

Provide detailed description of population impacted

Brackett Creek sewer line and pump station provide wastewater service to more than approximately 50% of the Town of Forest City customers, both residential, commercial, and industrial, as well as Isothermal Community College the center of higher education in Rutherford County. The Ellenboro wastewater collection system provides service to the 836 residents of town, Ellenboro Elementary School, as well as the businesses. The raw water intake provides water to operate an 8.0 MGD water treatment plant which provides potable water to the citizens of Forest City as well as the many businesses and industries located in the town and surrounding areas. Disrupted water service would affect more than 10,500 water customers, three high schools, other educational facilities, as well as impact major employers served by the water system impacting more than 5,000 jobs.

Provide a clear and detailed description of your proposed activity

**Second Broad River water intake** - Approximately 1,000 linear feet of streambank restoration to reinforce the natural berm between the river and settling, streambank enhancement and stabilization utilizing native plant materials and other measures to both stabilize and harden approximately 500 linear feet of the western bank of the Second Broad River between the river and the settling canal. **Brackett Creek Sewer Line** - Improvements include the replacement of approximately 950 linear feet of existing 24-inch RCP sewer, slip lining another 850 linear feet of the sewer to extend the service life of the gravity sewer, rehabilitation of 12 sewer manholes, stream restoration to move the location of Brackett Creek to its original flow pattern and restore the creek bank in those locations where excessive erosion has exposed the sewer line, streambank enhancement and stabilization utilizing native plant materials and other measures to both stabilize and harden approximately 2,000 linear feet of Brackett Creek adjacent to the sewer line and adjacent to the Brackett Creek sewer pump station. **Sewer Force Main Repairs at Second Broad River & US 74 Bridge** - Improvements required for this part of the project include the installation of a new sewer force main installed using directional drilling technology and streambank enhancement and stabilization utilizing native plant materials, placement of rip rap or gabion baskets to harden the stream banks from future erosion and other measures to both stabilize and harden approximately 200 linear feet of Second Broad River streambank immediately downstream of the US 74 bridge on each side of the river to reduce the vulnerability to continued erosion. The stream bank stabilization and the placement of rip rap to harden the banks will reduce the vulnerability of future erosion in the area of both the sewer and utility crossings and protect these from damage associated with future flooding events.

How will the mitigation activity be implemented?

The Town of Forest City will manage the proposed project and has contracted with a qualified engineer that will bid the project out to a construction contractor through open procurement process. The Town of Forest City Public Works staff proposes to implement the project in phases, in accordance with FEMA guidelines on phased projects. Phase 1 will include design and permitting from all appropriate local, state, and federal agencies for construction activity, storm water discharges, floodplain management, land disturbance, drainage review, approval, and environmental quality reviews. Upon completion of Phase 1 and approval from FEMA, Phase 2 will consist of project construction, acquisition of equipment and materials, floodplain benching, and pump station repairs. Timing and initiation of these projects will need to be closely coordinated and managed by the Town staff. Site preparation of the streambanks will necessitate large staging areas for equipment.

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.):

All projects will be implemented in phases as directed by McGill & Associates, the engineering firm that provided all technical guidance on design, permitting, procurement, construction, and closeout. Engineering design parameters will be available along with drawings/schematics following all codes when the listed projects go out for bids in the bid packets. Contractors will be required to list how they will implement the work and adhere to all required best practices.

Who will manage and complete the mitigation activity?

McGill & Associates, engineering firm, along with Town staff with many years of experience in project management will manage and complete the mitigation activity. Public Works Director, Sonny Penson has been with the Town over 25 years. Pump Maintenance Supervisor, Reid Guffey has been with the Town over 10 years with a crew of three maintenance employees. Water & Sewer Superintendent, John Hardin has been with the Town over 10 years and also has a strong team of certified maintenance staff of 10 employees. The expertise provided by the engineering firm along with Town staff has successfully managed large projects to completion in the past. The



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

closeout of these projects, often funded by state and federal grants, can be seen in the Implementation Measures attachments.

**At project completion, all hazards that were identified will be addressed. Residual risks would be ongoing changing weather patterns associated with global climate change and the frequency of storms. All possible streambank protections will have been added to prevent future erosion during flooding events. Ongoing maintenance to all areas will also assist with the prevention of future damages that lead to loss of utilities.**

Does the mitigation activity incorporate nature-based solutions?

**Yes**

When will the mitigation activity take place?

**Mitigation activities will take place immediately after bid selection of a contractor for the projects.**

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?

**The projects listed were considered to be the best alternative due to the cost involved with relocation and easements required for any relocations of pump stations, sewer lines, and raw water intake canals.**

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?

**The Town of Forest City public works employees will perform any long-term maintenance or the contracting of any maintenance for all projects listed. Maintenance costs of long-term care will include the following: Sewer Force Main Repairs and Streambank Protections will have annual costs of approximately \$1,000 with joint responsibility of NC DOT to ensure river debris remains clear of the bridge and infrastructure to prevent erosion. Second Broad River Raw Water Intake will have annual costs of approximately \$75,000 including power for pumps, contracting for dredging of the canal to remove sand and debris, amortized costs of pump replacements and other repairs. Brackett Creek Sewer Line rehabilitation and streambank enhancements will have annual costs of approximately \$75,000 that include routine clearing of debris and right of ways, power for pumps, and any amortized costs of pump replacements.**

Additional comments (optional)

**Photos of previous streambank improvements and erosion are included in the attachments which show the direct damage from the latest storms in August 2021. Heavier rainfall and higher stream flows result in increased erosion of the fragile streambanks of the Second Broad River. The last storm is just one of at least four (4) events which have occurred within the past thirty-six (36) months.**

## Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">BRICC2022-Qualitative Criterion 1-Risk Reduction &amp; Resilience Effectiveness.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Scope of Work Attachments	Qualitative Criterion 1:Risk reduction/resilience effectiveness.	
<a href="#">Second Broad River sewer line MAP.docx</a>	11/18/2022	roxannestiles@townofforestcity.com	Scope of Work Attachments	Map locating the Second Broad River sewer line.	
<a href="#">Brackett Creek lift station MAP.docx</a>	11/18/2022	roxannestiles@townofforestcity.com	Scope of Work Attachments	Map locating the Brackett Creek lift station.	
<a href="#">Raw Water Intake Second Broad River MAP.docx</a>	11/18/2022	roxannestiles@townofforestcity.com	Scope of Work Attachments	Map locating the raw water intake along the Second Broad River.	
<a href="#">Population Impacted - Water Service Area.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Scope of Work Attachments	Map showing raw water intake project area and entire Water Service area for Town of Forest City and Rutherford County.	
<a href="#">BRIC2022-Qualitative Criterion Number 4- Population Impacted.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Scope of Work Attachments	Population impacted is shown in the attachment. This	

Filename	Date uploaded	Uploaded by	Label	Description	Action
				shows community-wide benefits, percentage of population impacted, vulnerable members of the community, and impacts to disadvantaged community members.	
<a href="#">Population Impacted - Sewer Service Area.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Scope of Work Attachments	Map showing sewer force main project area and Brackett Creek project area along with entire Sewer Service area for Town of Forest City and Rutherford County.	
<a href="#">BRIC 2022 Technical Feasibility Support.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Scope of Work Attachments	Technical Feasibility Support for all projects.	
<a href="#">BRIC2022-Q5 Outreach Activities.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Scope of Work Attachments	Qualitative Criterion 5: Community Outreach shows the stakeholders, planning process, public sharing of information regarding projects, support for those projects, and benefits to the community.	
<a href="#">Bric 2022 Q3 Implementation Measures.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Scope of Work Attachments	Qualitative Criterion 3: Implementation Measures includes other FEMA projects that have been completed successfully in past years, challenges, costs and schedule, monitoring strategies, all resources, and examples of the project.	

## 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.

<b>Task Name</b> State Contracting and Procurement	<b>Start Month</b> 1	<b>Task Duration (in Months)</b> 4 months
<b>Task Description</b> Tasks include NCDPS subrecipient grant contracting, project bidding, approval, and design. Advertising bid documents, receiving and evaluating bids, and awarding a construction contract.		
<b>Task Name</b> Permitting	<b>Start Month</b> 5	<b>Task Duration (in Months)</b> 2 months

	<p><b>Task Description</b> Applying for and receiving permits during the design phase.</p>
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<b>Task Name</b> Construction Phase	<b>Start Month</b> 7	<b>Task Duration (in Months)</b> 28 months
<p><b>Task Description</b> Construction activities related to all projects.</p>		

<b>Task Name</b> Closeout	<b>Start Month</b> 34	<b>Task Duration (in Months)</b> 2 months
<p><b>Task Description</b> Final inspection and closeout activities.</p>		

Estimate the total duration of your proposed activities (in months). **36**

**Proposed project start and end dates**

Start Date **2024-07-01**  
End Date **2027-06-30**

**Introduction**

**Project location**

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

**Raw Water Intake on Second Broad River is north of town and has a canal that provides water to the Water Treatment Plant. Brackett Creek sewer line force main and pump lift station is immediately downstream of the US 74 Bridge.**

Latitude **35.379818**  
Longitude **-081.862203**

**Attachments**

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">Raw Water Intake Second Broad River MAP.docx</a>	11/18/2022	roxannestiles@townofforestcity.com	Project Location Attachments	Map showing location of raw water intake at Second Broad River.	
<a href="#">Second Broad River sewer line MAP.docx</a>	11/18/2022	roxannestiles@townofforestcity.com	Project Location Attachments	Map showing location of Second Broad River sewer line.	
<a href="#">Brackett Creek lift station MAP.docx</a>	11/18/2022	roxannestiles@townofforestcity.com	Project Location Attachments	Map showing location of Brackett Creek lift station.	

**Project benefiting area**

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

**The benefiting area includes Forest City, Ellenboro, Bostic, Rutherford County, including schools and major industrial businesses.**

**Attachments**

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">Population Impacted - Sewer Service Area.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Location project benefiting area Attachments	Map showing Sewer Service area and poverty level of population impacted.	
<a href="#">Population Impacted - Water Service Area.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Location project benefiting area Attachments	Map showing Water Service area and poverty level of population impacted.	

### Project impact area

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

**The proposed impact area includes Forest City, Ellenboro, Bostic, and Rutherford County.**

### Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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### Project site inventory

Does this project subapplication propose to mitigate a property/structure(s)? ( Examples: residential home, commercial building, bridge, fire station, levee, pumping station, wastewater treatment plant, telephone pole, electric line, etc.) **No**

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

### 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: \$3,637,830.00**

#### Budget type: Construction

▶	<b>Cost type: Cost estimate</b>	<b>\$3,464,600.00</b>
▶	<b>Cost type: Management cost</b>	<b>\$173,230.00</b>

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. Building Resilient Infrastructure and Communities (BRIC) and small impoverished communities 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.

<a href="#">Is this an Economically Disadvantaged Rural Community?</a> This determines your federal/non-federal share ratio. No	<b>Proposed federal share</b>	<b>71.43</b>	<b>2598450.00</b>
	<b>Proposed non-federal share</b>	<b>28.57</b>	<b>1039380.00</b>
			<b>Percent on total budget cost:</b> <b>\$3,637,830.00</b>

**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
▶ <b>Funding source: Town of Forest City budget</b>	<b>100.00%</b>	<b>\$1,039,380.00</b>

Please provide any additional comments below (optional).

**Budgets with cost estimates have been provided by our engineers.**

**Attachments**

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">Brackett Creek Sewer Line and Streambank - project cost estimate.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	BudgetAttachments	Brackett Creek sewer line and streambank stabilization project cost estimates.	
<a href="#">Second Broad River Sewer Force Main - project cost estimate.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	BudgetAttachments	Second Broad River sewer force main replacement and streambank stabilization project cost estimates.	
<a href="#">Raw Water Intake Project Need Scope memo 30sept21.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	BudgetAttachments	Raw Water Intake canal rehabilitation and streambank stabilization project scope and cost estimate.	
<a href="#">BRIC2022 Matching Funds Commitment Letter.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	BudgetAttachments	Town of Forest City matching funds commitment letter showing a match of 30% by the Town budget in FY24-25 to be available on July 1, 2024 for the projects.	

**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
- Not applicable

What are the total project benefits? (\$) **3464600**

What are the total project cost? (\$) **3464600**

What is the benefit-cost ratio (BCR) for the entire project? **1.00**

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

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

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

Please provide any additional comments below (optional).

**A benefit cost analysis (BCA) has been performed by McGill Associates as part of the FEMA Building Resilient Infrastructure and Communities (BRIC) Grant Application for the Town of Forest City. The purpose of the application is to obtain federal funds which will support the sewer force main, sewer pump station, gravity sewer line and raw water intake improvements. (The Project). "The Census Tract that includes the project area has a Centers for Disease Control and Prevention (CDC) Social Vulnerability Index (SVI) rating among the highest in the nation: 0.864 offering the BCA WAIVER and further assistance from FEMA in addressing any issues found with the BCA in the NTR review." Evidence is provided in the Technical Scoring Support document.**

**Attachments**

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">Forest City BCA BRIC 2022.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Cost Effectiveness Attachments	The Benefit-Cost Analysis Methods Summary is attached for the Town of Forest City's Sewer Force Main, Raw Water Intake, and Stream Bank Stabilization projects.	
<a href="#">FC BRIC Projects BCA 2022.xlsx</a>	01/06/2023	roxannestiles@townofforestcity.com	Cost Effectiveness Attachments	The Benefit-Cost Analysis Methods Spreadsheet is attached for the Town of Forest City's Sewer Force Main, Raw Water Intake, and Stream Bank Stabilization projects.	

**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? **No**

**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.

#### 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? **No**

**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)

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
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### 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? **No**

**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)

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? **No**

**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)

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? **No**

**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)

## 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? **No**

## 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 1% annual chance floodplain, a 0.2% annual chance floodplain, a regulatory floodway, or an area prone to flooding? **No**

2. Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation?

No

## 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?

No

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

No

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?

No

## 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 or adjacent to the project area?

No

## 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?

No

## 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?

No

## Evaluation

Is the applicant participating in the <a href="#">Community Rating System (CRS)</a> ?	No
Is the applicant a <a href="#">Cooperating Technical Partner (CTP)</a> ?	No
Was this application generated from a previous FEMA HMA Advance Assistance or Project Scoping award or any other federal grant award, or the subapplicant is a past recipient of Building Resilient Infrastructure and Communities (BRIC) non-financial Direct Technical Assistance?	No
Has the applicant adopted building codes consistent with the <a href="#">international codes</a> ?	No
Have the applicant's building codes been assessed on the <a href="#">Building Code Effectiveness Grading Schedule (BCEGS)</a> ?	Yes
Select rating.	4
Describe involvement of partners to enhance the mitigation activity outcome.	<b>Partnerships with NCDOT to assist with Second Broad River along US-74 to keep debris clear of infrastructure to prevent erosion and streambank destabilization.</b>
Discuss how anticipated future conditions are addressed by this project.	<b>Proposed improvements to all areas within the listed projects will enhance and harden streambanks to prevent future floods from damaging water and sewer lines.</b>
Additional comments (optional)	<b>Climate change and future conditions are discussed in the narrative attached. Letters of support from leveraging partners are included in the qualitative criterion.</b>

## Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">BRICC2022-Qualitative Criterion 2-Climate Change Future Conditions.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Evaluation Attachments	Qualitative Criterion 2: Climate change and future conditions includes responsive actions and planning efforts for enhancements to reduce future erosion and damage associated with flooding. Includes data sources from the 2020 NCCSR.	
<a href="#">Daily Courier Newspaper articles of flood event 2-7-2020.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Evaluation Attachments	Article describes February 2020 excessive rainfall leading to break in waterline that runs under the Second Broad River including State of Emergency.	
<a href="#">Daily Courier Newspaper articles of flood event 5-20-2020.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Evaluation Attachments	Article describes May 2020 floods related to three consecutive days of excessive rainfall including State of Emergency.	
<a href="#">BRIC2022-Q6 Leveraging Partners.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Evaluation Attachments	Qualitative Criterion Number 6: Leveraging Partners contributions and support.	
<a href="#">Technical Scoring Support Documents.pdf</a>	01/06/2023	roxannestiles@townofforestcity.com	Evaluation Attachments	Technical scoring support documents.	

Filename	Date uploaded	Uploaded by	Label	Description	Action
<a href="#">Daily Courier Newspaper articles of flood event 10-29-2020.pdf</a>	11/18/2022	roxannestiles@townofforestcity.com	Evaluation Attachments	Article describes October 2020 impact of Tropical Storm Zeta resulting in State of Emergency.	

## Comments & attachments

▶ <b>Community</b>	<b>1 comment, 4 attachments</b>
▶ <b>Mitigation plan</b>	<b>1 comment, 1 attachments</b>
▶ <b>Scope of work</b>	<b>1 comment, 10 attachments</b>
▶ <b>Budget</b>	<b>1 comment, 4 attachments</b>
▶ <b>Cost-effectiveness</b>	<b>1 comment, 2 attachments</b>
▶ <b>Evaluation</b>	<b>1 comment, 6 attachments</b>
▶ <b>Environmental/Historic Preservation (EHP)</b>	<b>0 comment, 0 attachments</b>
▶ <b>Location</b>	<b>0 comment, 5 attachments</b>

## Assurances and certifications

OMB number: 4040-0009, Expiration date: 02/28/2025 [View burden statement](#)

### SF-424D: Assurances - Construction Programs

Content:

OMB Number: 4040-0009  
 Expiration Date: 02/28/2025

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.

## Certifications regarding lobbying

OMB Number: 4040-0013

Expiration Date: 02/28/2025

### Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

### Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S.



Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.